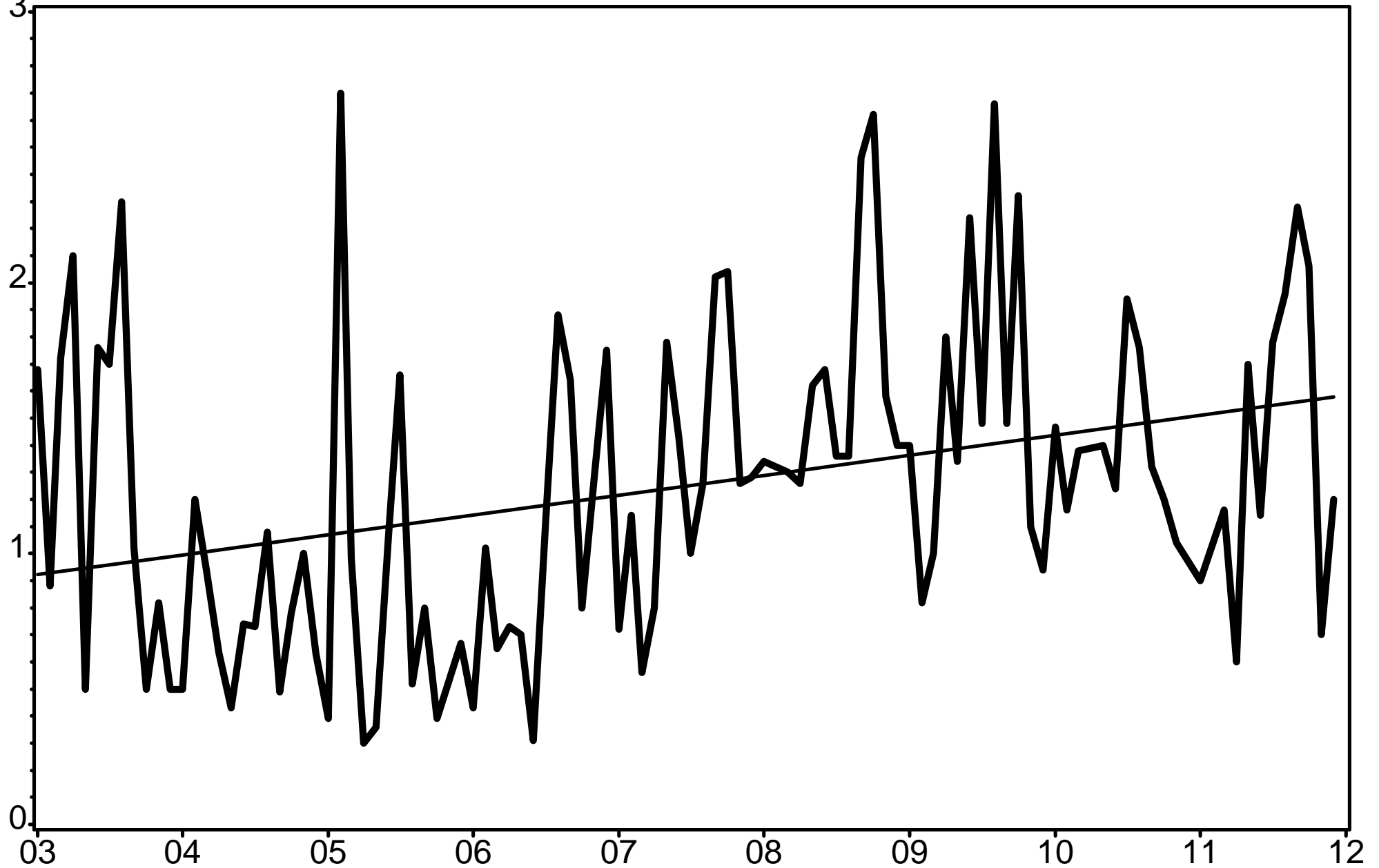


Bokeelia Trends Appendix - Display 1

Monthly Data Time Series
for Surface BOD 5-Day in Bokeelia
Not Adjusted for Seasonal Medians

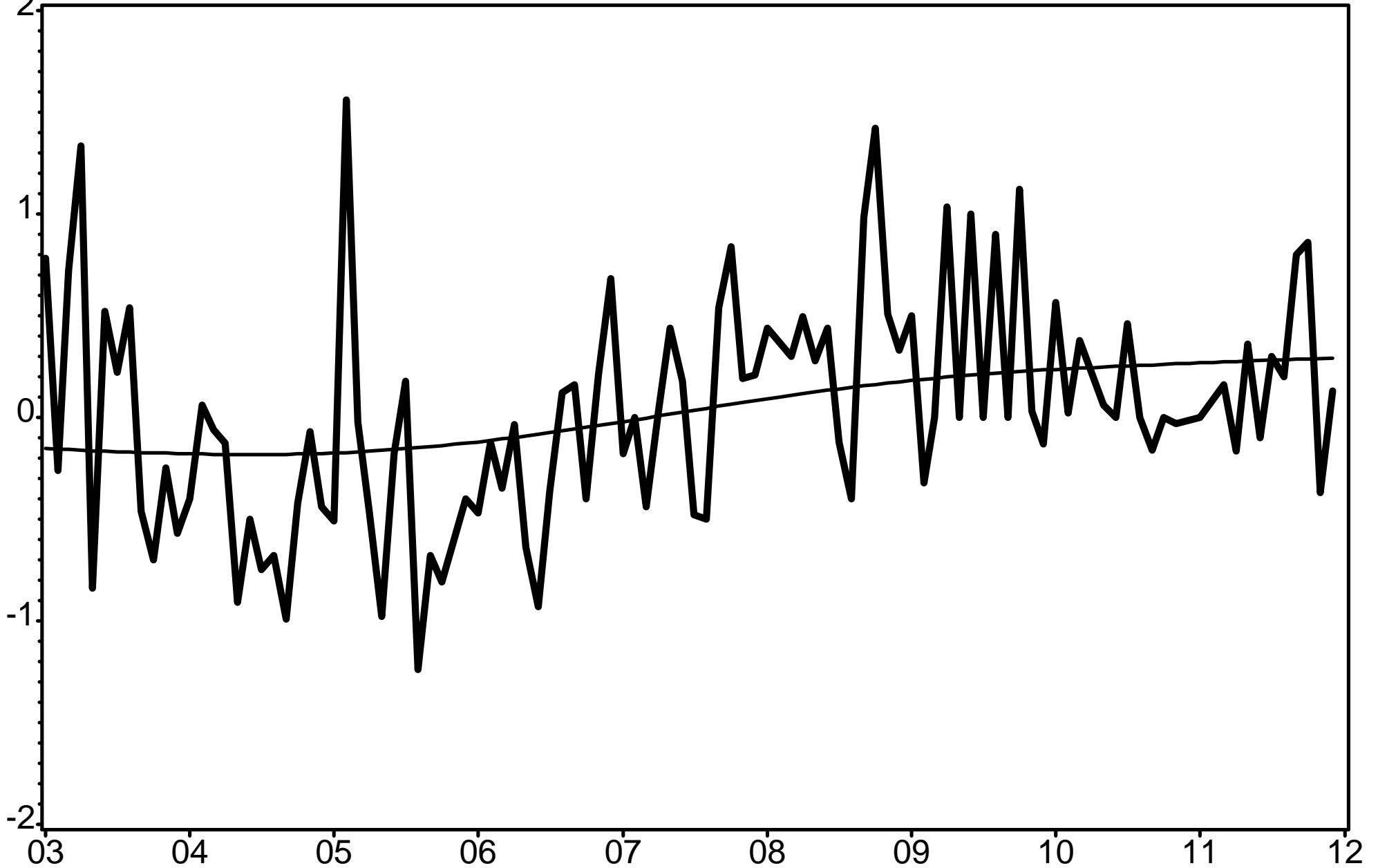
BOD_mgl
(mg/l)



Bokeelia Trends Appendix - Display 2

Monthly Data Time Series
for Surface BOD 5-Day in Bokeelia
Adjusted for Seasonal Medians

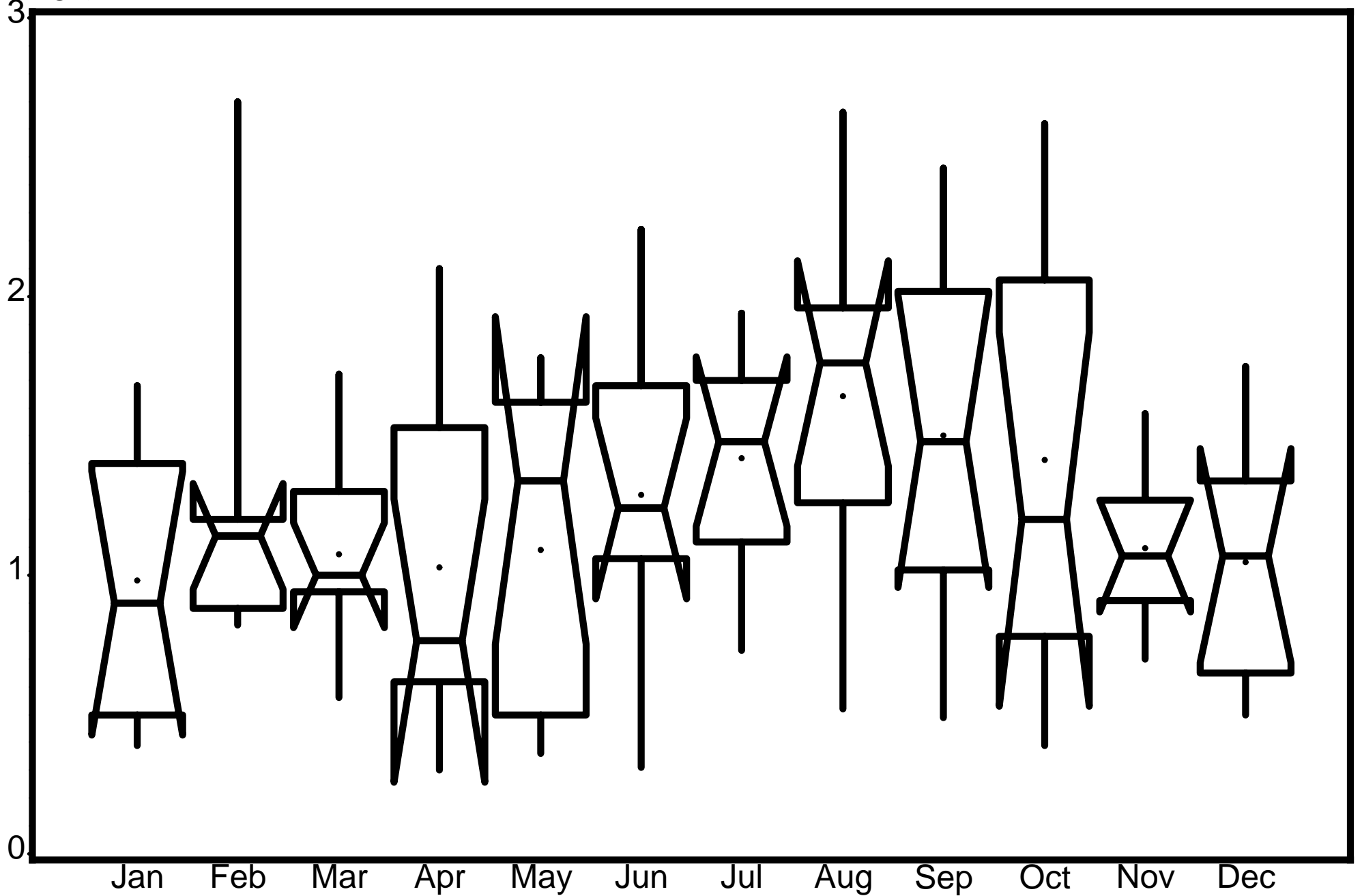
Adjusted
BOD_mgl
(mg/l)



Bokeelia Trends Appendix - Display 3

Seasonal Univariate Statistics
for Surface BOD 5-Day in Bokeelia

BOD_mgl
(mg/l)



Bokeelia Trends Appendix - Display 4

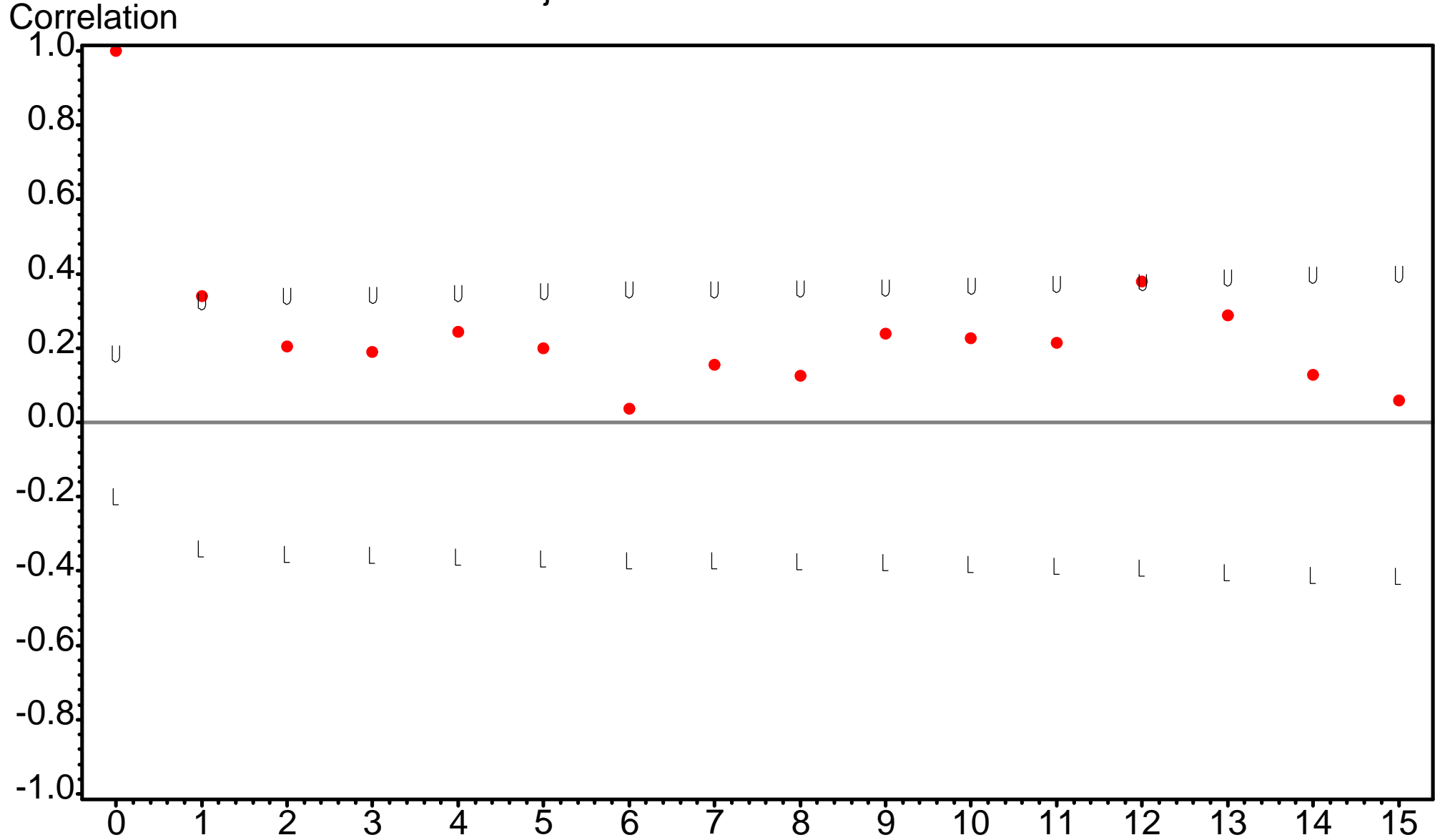
Autocorrelation Statistics for Surface BOD 5-Day in Bokeelia

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.340	0.167	0.333	-0.333
2	0.205	0.173	0.346	-0.346
3	0.190	0.175	0.350	-0.350
4	0.244	0.177	0.354	-0.354
5	0.200	0.180	0.360	-0.360
6	0.037	0.182	0.365	-0.365
7	0.156	0.182	0.365	-0.365
8	0.126	0.184	0.367	-0.367
9	0.238	0.184	0.369	-0.369
10	0.227	0.187	0.374	-0.374
11	0.214	0.190	0.379	-0.379
12	0.378	0.192	0.384	-0.384
13	0.287	0.199	0.397	-0.397
14	0.128	0.203	0.405	-0.405
15	0.060	0.203	0.407	-0.407

Bokeelia Trends Appendix - Display 5

Correlogram for Surface BOD 5-Day in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 6
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.255	0	0	0.088

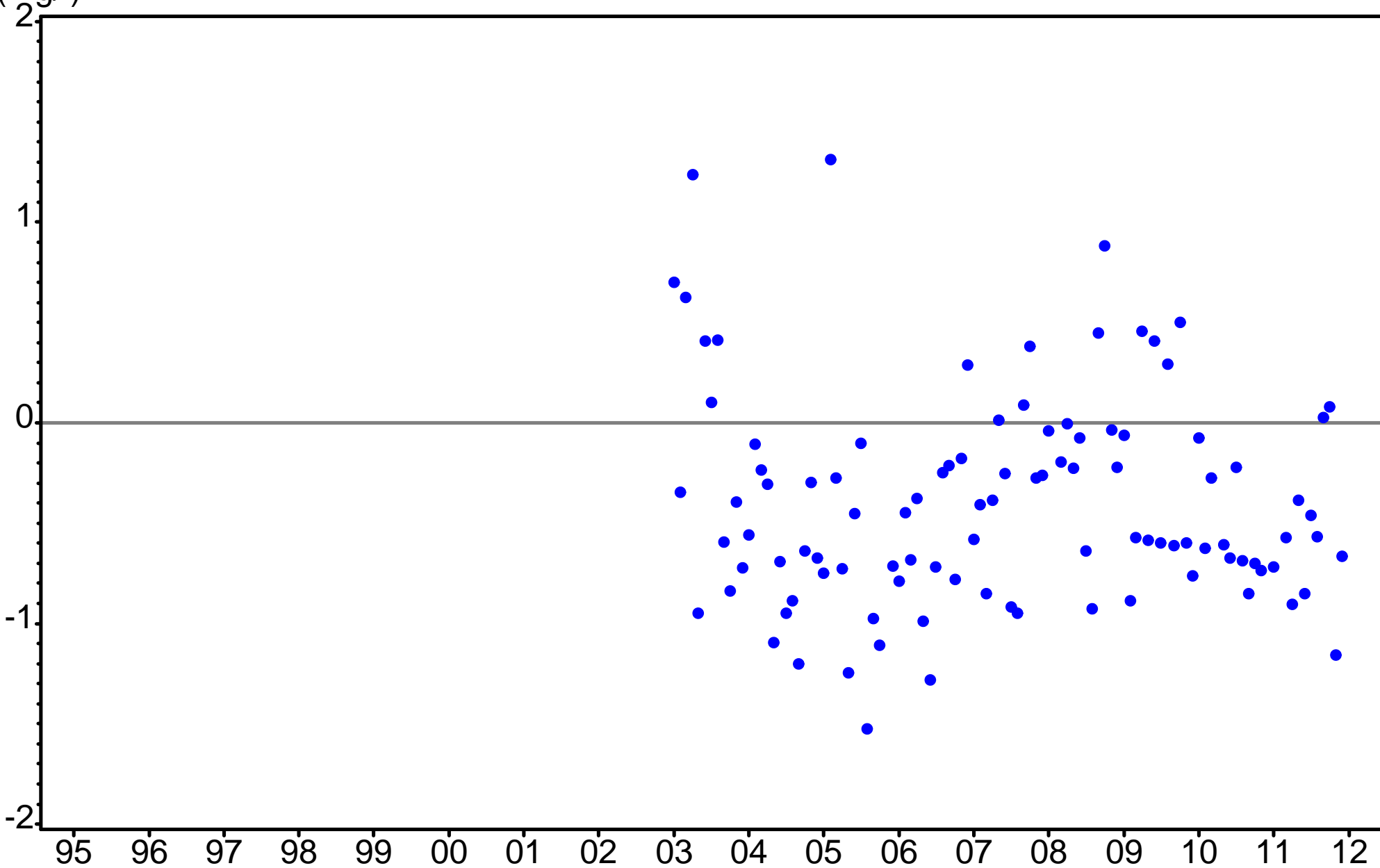
Bokeelia Trends Appendix - Display 7
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.26718	.000873566	0.060700	0.08

Bokeelia Trends Appendix - Display 8

Time Series Plot of Surface BOD 5-Day Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(mg/l)



Zero Reference Line Shown

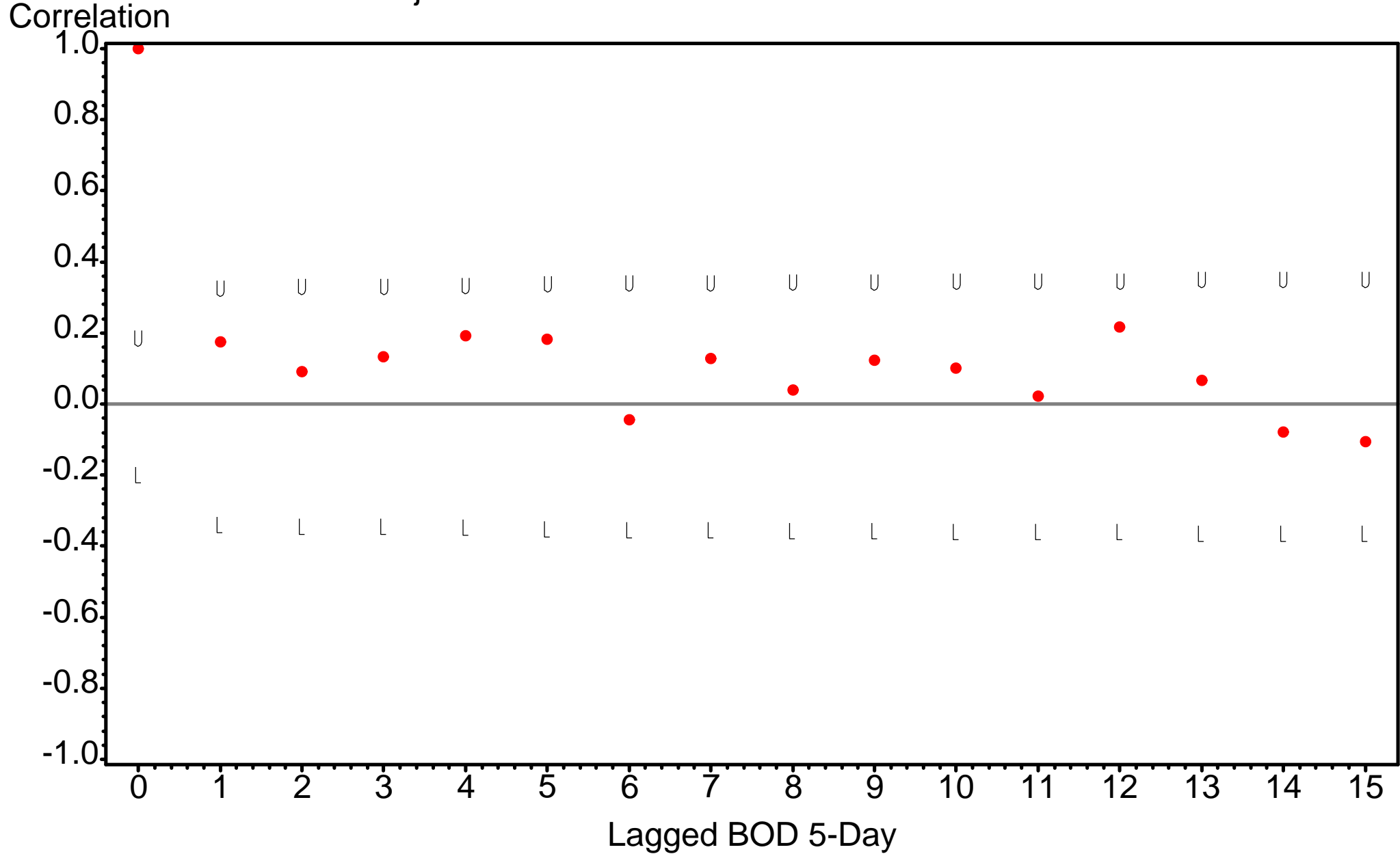
Bokeelia Trends Appendix - Display 9
Autocorrelation Statistics for Surface BOD 5-Day in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.174	0.167	0.333	-0.333
2	0.092	0.168	0.337	-0.337
3	0.134	0.169	0.338	-0.338
4	0.191	0.170	0.340	-0.340
5	0.181	0.172	0.344	-0.344
6	-0.044	0.174	0.347	-0.347
7	0.127	0.174	0.347	-0.347
8	0.040	0.174	0.349	-0.349
9	0.123	0.175	0.349	-0.349
10	0.102	0.175	0.351	-0.351
11	0.023	0.176	0.352	-0.352
12	0.216	0.176	0.352	-0.352
13	0.067	0.178	0.357	-0.357
14	-0.078	0.179	0.357	-0.357
15	-0.107	0.179	0.358	-0.358

Bokeelia Trends Appendix - Display 10

Correlogram for Surface BOD 5-Day in Bokeelia

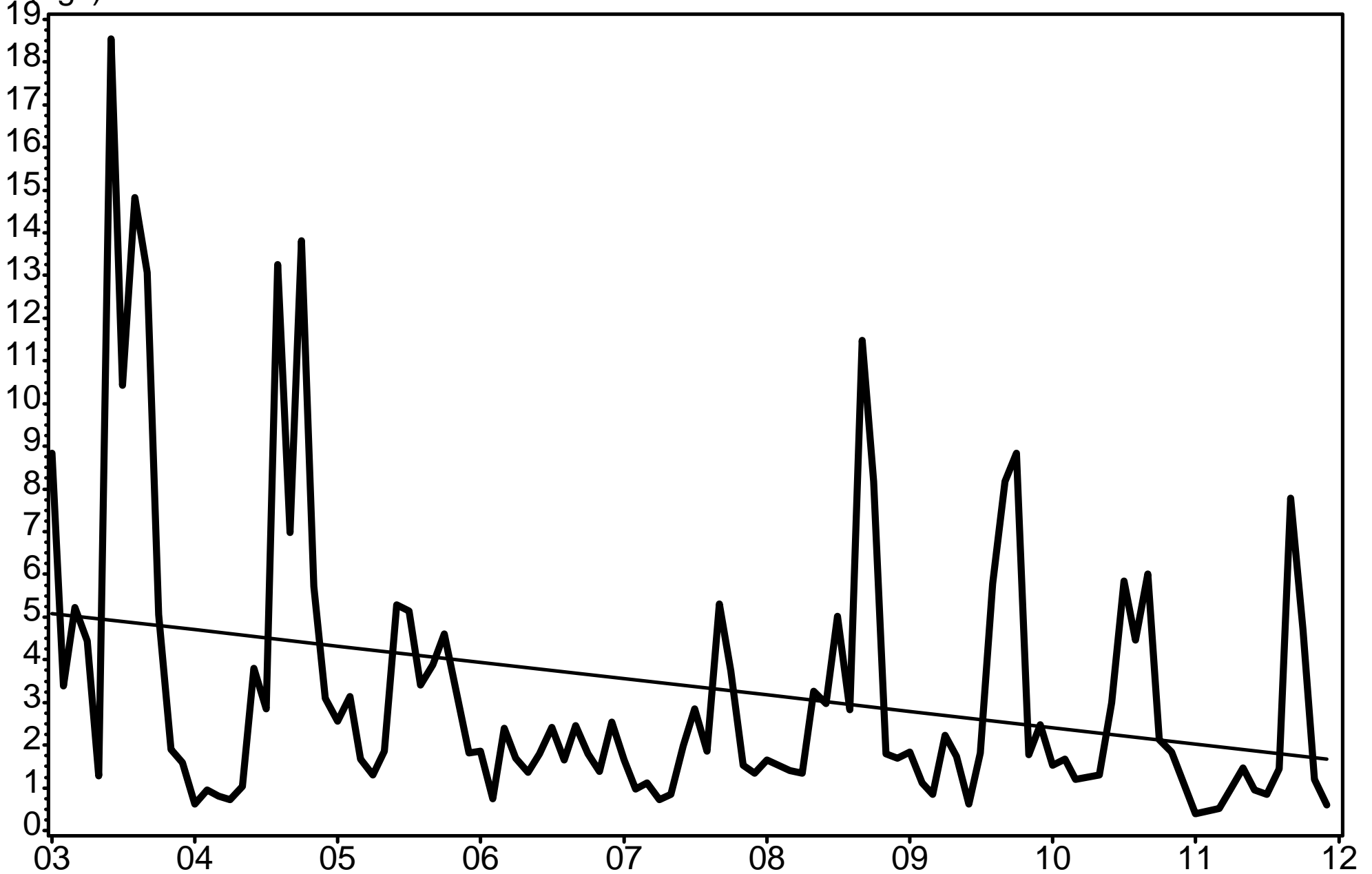
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 11
Monthly Data Time Series
for Surface Chlorophyll-a (Corrected) in Bokeelia
Not Adjusted for Seasonal Medians

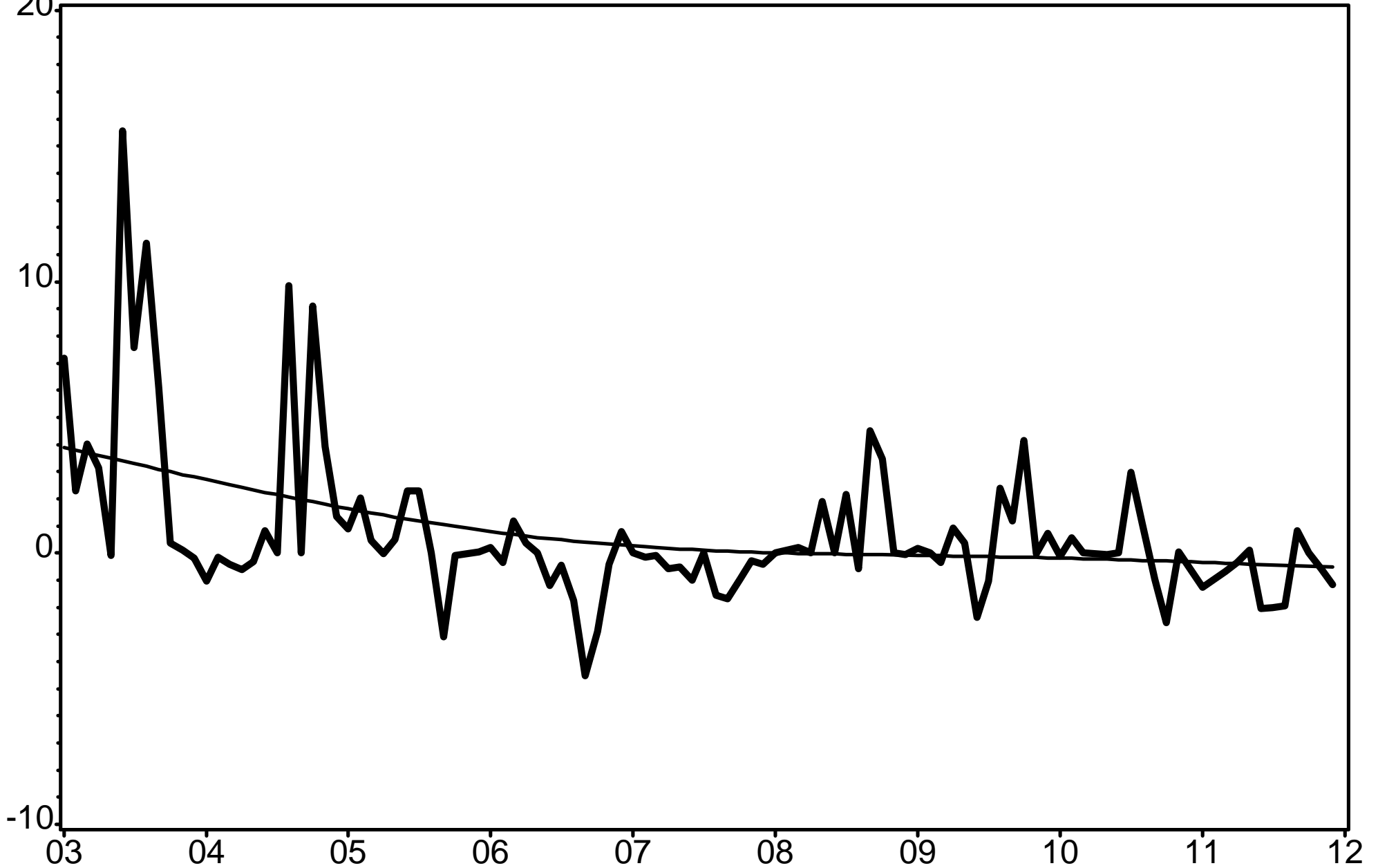
CHLAC_ugl
(ug/l)



Bokeelia Trends Appendix - Display 12

Monthly Data Time Series
for Surface Chlorophyll-a (Corrected) in Bokeelia
Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

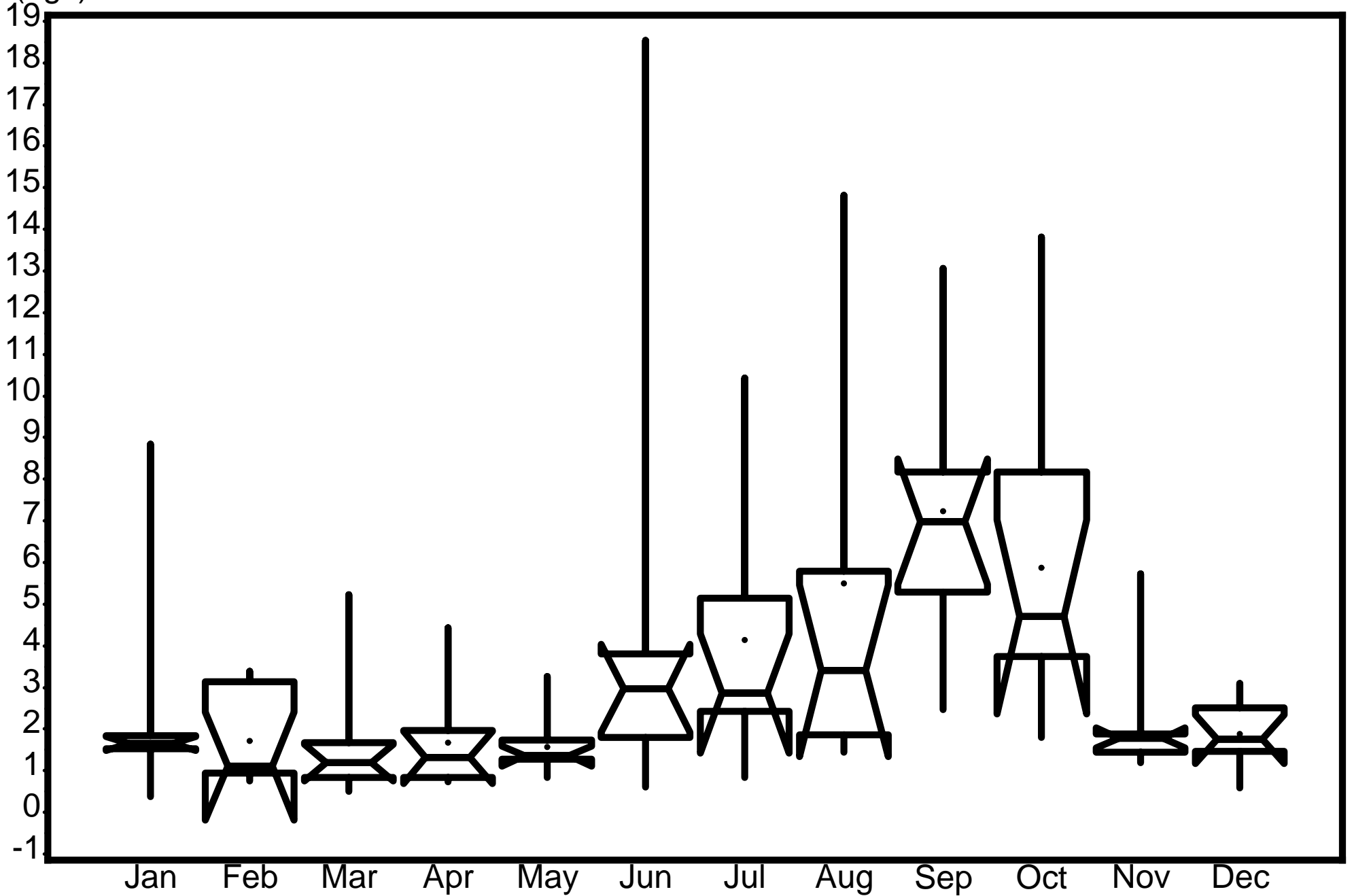


Bokeelia Trends Appendix - Display 13

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Bokeelia

CHLAC_ugl
(ug/l)



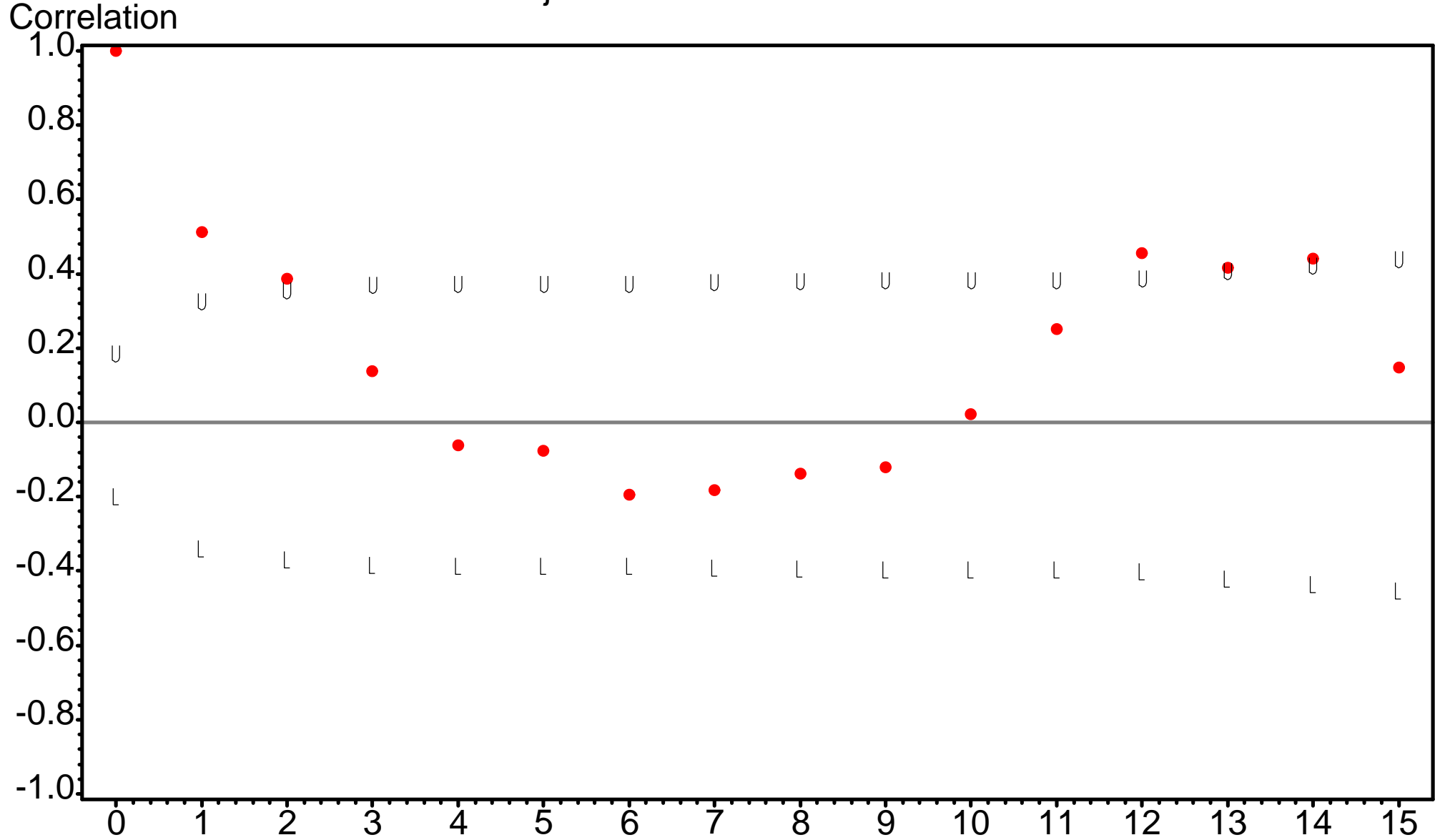
Bokeelia Trends Appendix - Display 14

Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Bokeelia

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.511	0.167	0.333	-0.333
2	0.386	0.181	0.361	-0.361
3	0.139	0.188	0.376	-0.376
4	-0.062	0.189	0.378	-0.378
5	-0.077	0.189	0.378	-0.378
6	-0.194	0.190	0.379	-0.379
7	-0.182	0.191	0.383	-0.383
8	-0.137	0.193	0.386	-0.386
9	-0.120	0.194	0.388	-0.388
10	0.021	0.195	0.389	-0.389
11	0.251	0.195	0.389	-0.389
12	0.456	0.198	0.395	-0.395
13	0.417	0.207	0.414	-0.414
14	0.440	0.215	0.429	-0.429
15	0.147	0.223	0.446	-0.446

Bokeelia Trends Appendix - Display 15

Correlogram for Surface Chlorophyll-a (Corrected) in Bokeelia Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 16
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Bokeelia
Unadjusted for Seasonal Medians

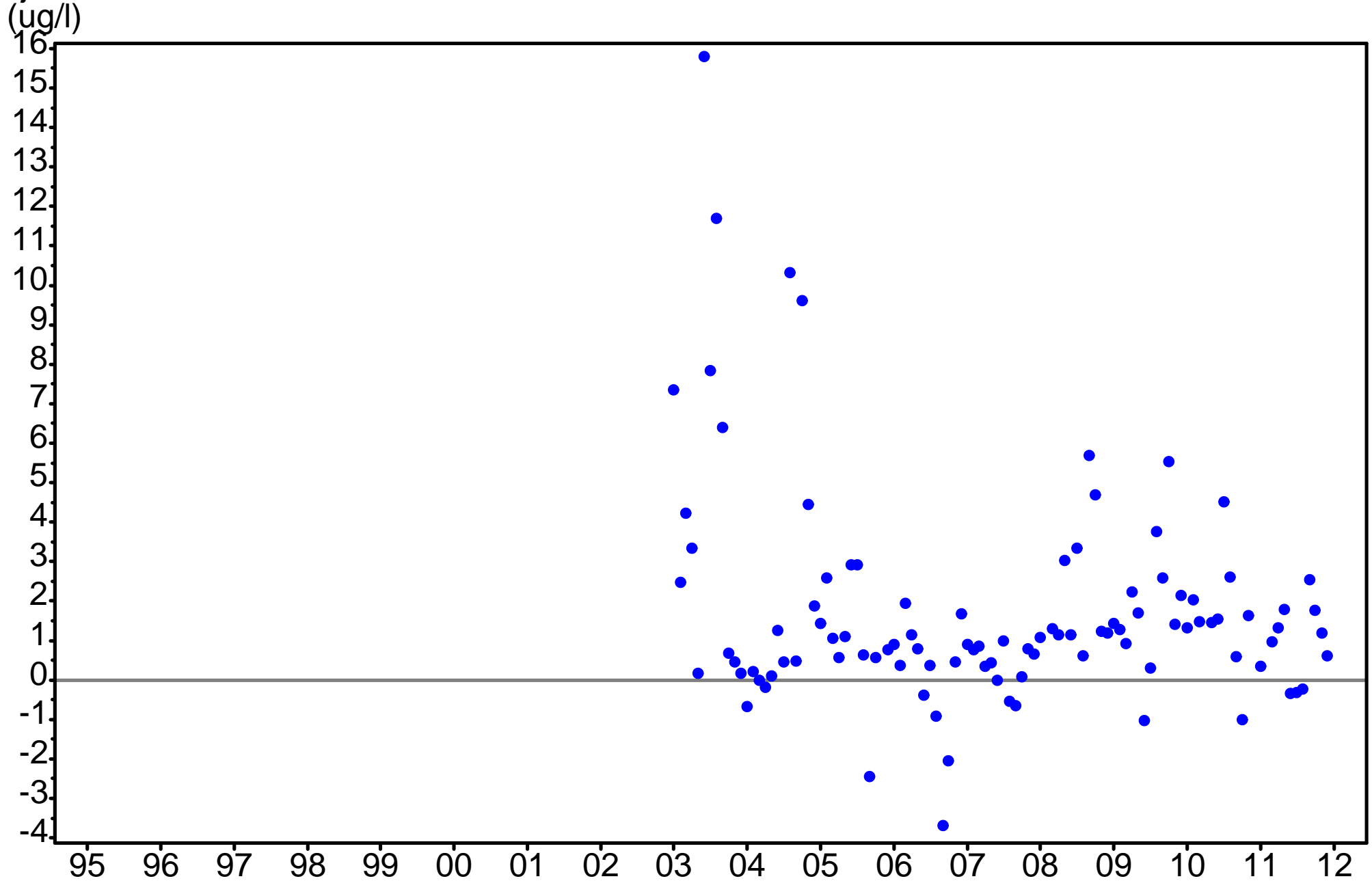
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.182	.006	.006	-0.17

Bokeelia Trends Appendix - Display 17
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.24173	.00259996	0.11497	-0.18

Bokeelia Trends Appendix - Display 18

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Bokeelia



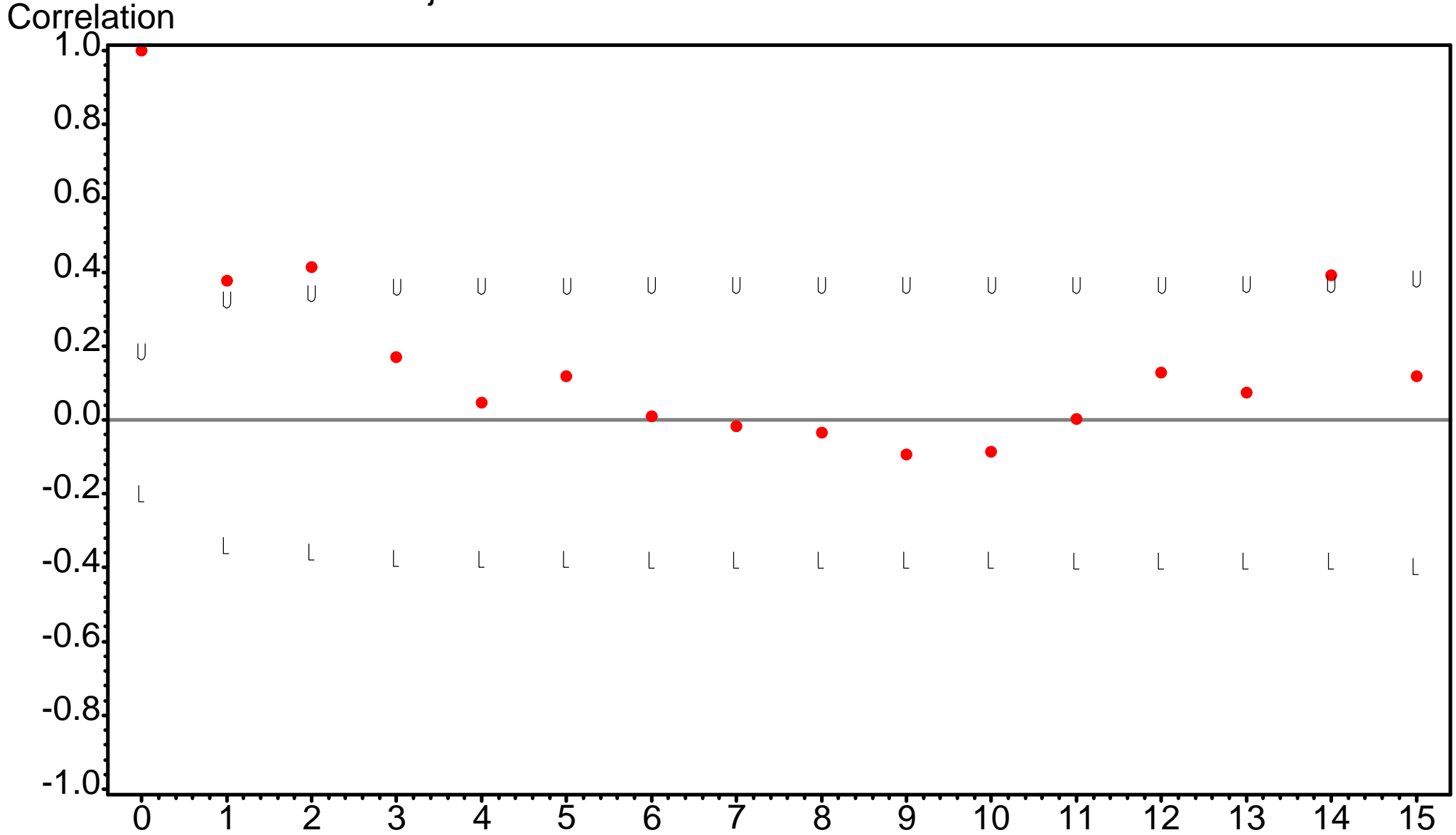
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 19
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.376	0.167	0.333	-0.333
2	0.414	0.174	0.349	-0.349
3	0.170	0.183	0.366	-0.366
4	0.046	0.185	0.369	-0.369
5	0.118	0.185	0.370	-0.370
6	0.010	0.185	0.371	-0.371
7	-0.017	0.185	0.371	-0.371
8	-0.035	0.186	0.371	-0.371
9	-0.093	0.186	0.371	-0.371
10	-0.087	0.186	0.372	-0.372
11	0.002	0.186	0.373	-0.373
12	0.129	0.186	0.373	-0.373
13	0.075	0.187	0.374	-0.374
14	0.392	0.187	0.375	-0.375
15	0.117	0.195	0.390	-0.390

Bokeelia Trends Appendix - Display 20

Correlogram for Surface Chlorophyll-a (Corrected) in Bokeelia
Adjusted for Seasonal Median and Detrended

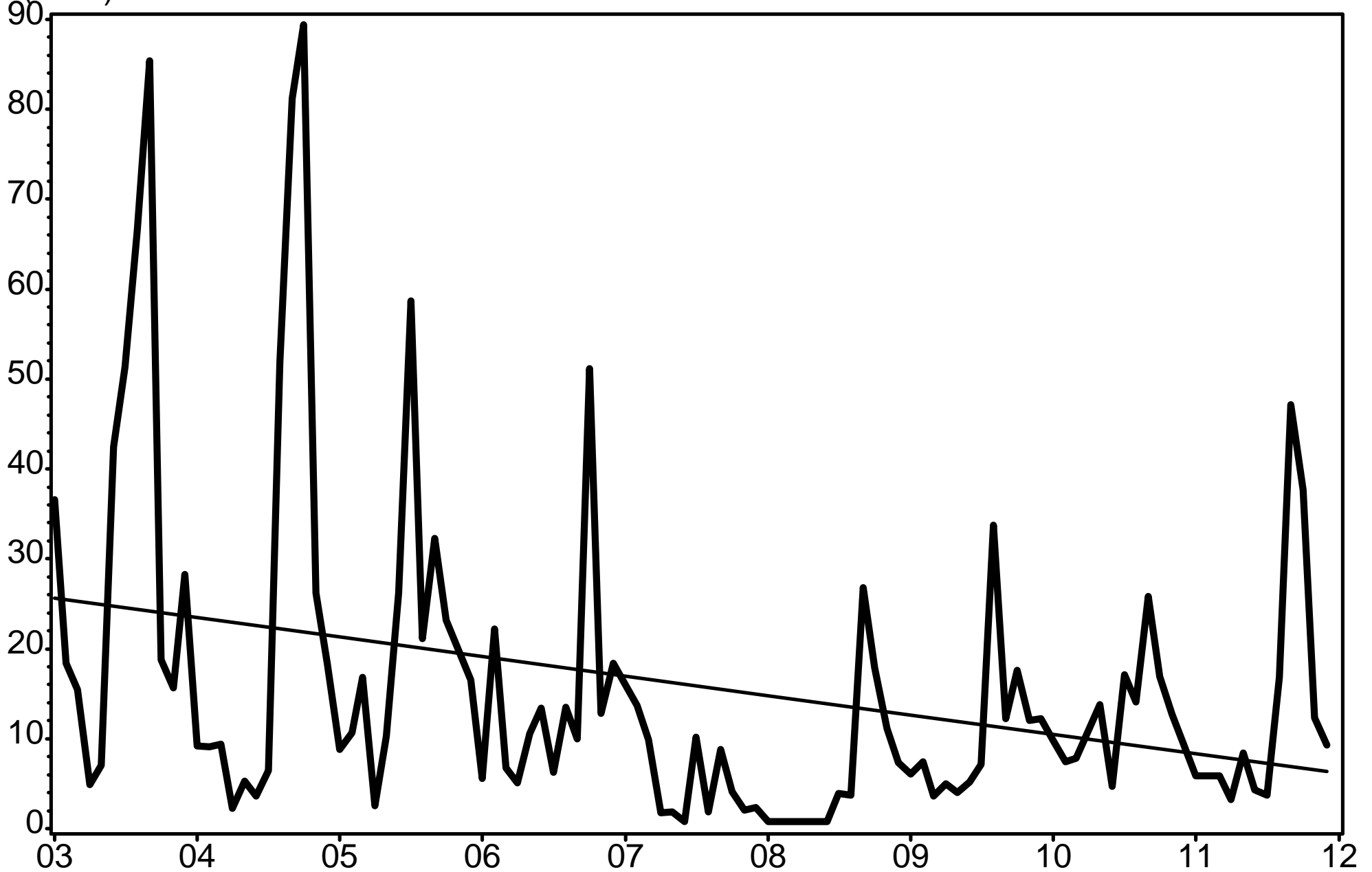


Lagged Chlorophyll-a (Corrected)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 21

Monthly Data Time Series
for Surface Color in Bokeelia
Not Adjusted for Seasonal Medians

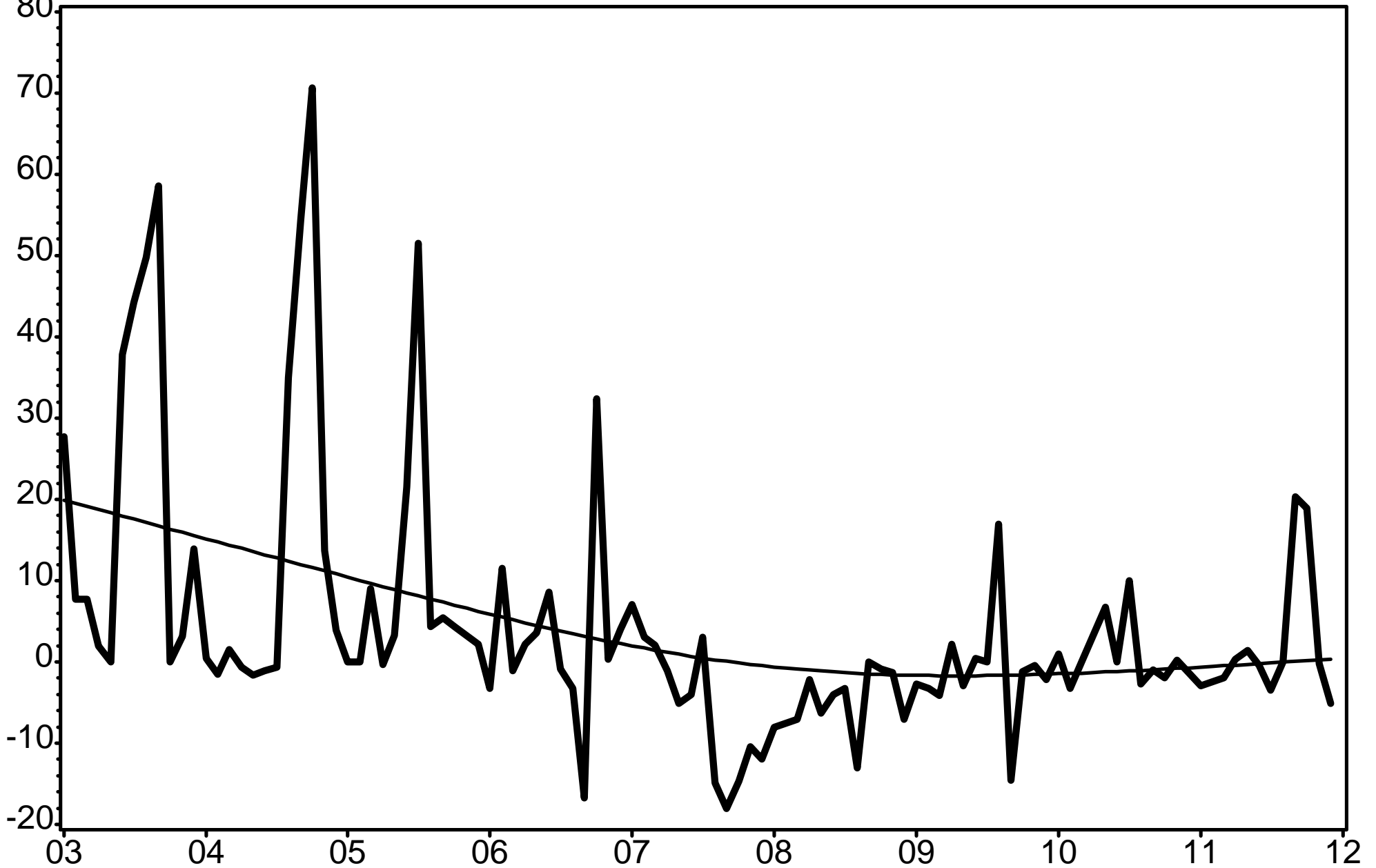
COLOR
(PCU)



Bokeelia Trends Appendix - Display 22

Monthly Data Time Series
for Surface Color in Bokeelia
Adjusted for Seasonal Medians

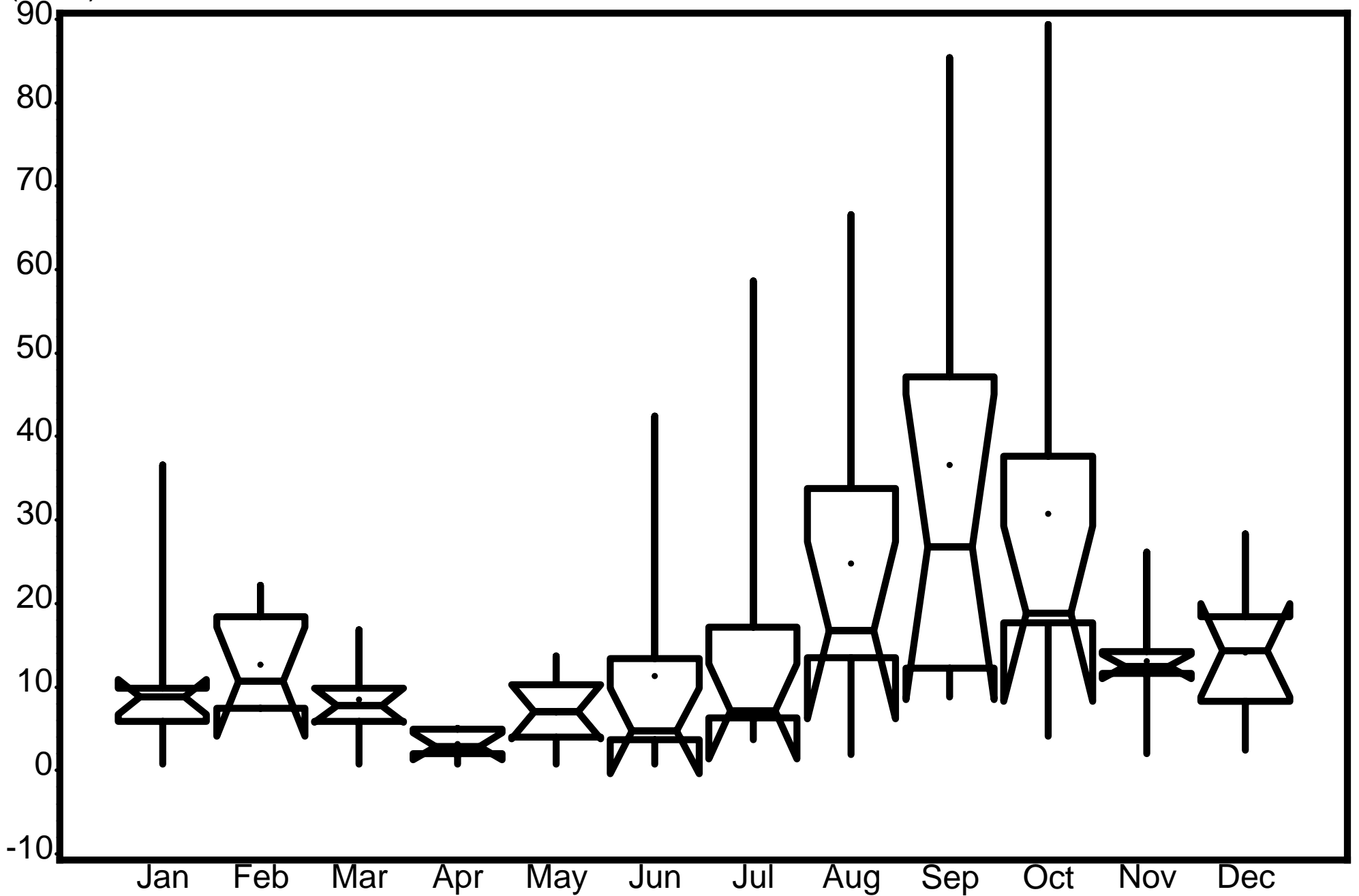
Adjusted
COLOR
(PCU)



Bokeelia Trends Appendix - Display 23

Seasonal Univariate Statistics
for Surface Color in Bokeelia

COLOR
(PCU)



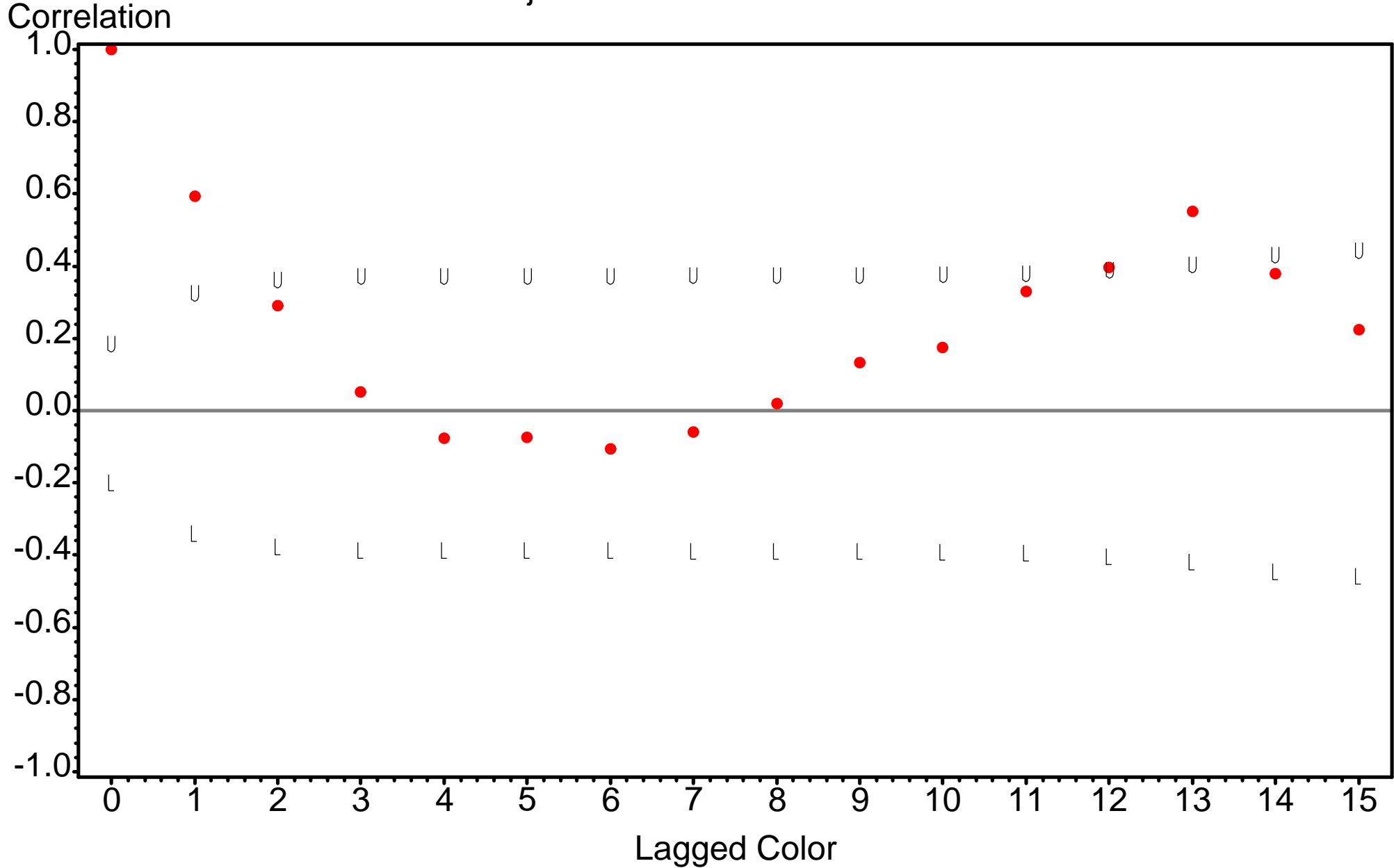
Bokeelia Trends Appendix - Display 24

Autocorrelation Statistics for Surface Color in Bokeelia

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.593	0.167	0.333	-0.333
2	0.291	0.185	0.370	-0.370
3	0.051	0.189	0.379	-0.379
4	-0.076	0.189	0.379	-0.379
5	-0.075	0.190	0.380	-0.380
6	-0.106	0.190	0.380	-0.380
7	-0.058	0.191	0.381	-0.381
8	0.020	0.191	0.381	-0.381
9	0.132	0.191	0.382	-0.382
10	0.176	0.192	0.383	-0.383
11	0.331	0.193	0.386	-0.386
12	0.397	0.198	0.397	-0.397
13	0.552	0.205	0.411	-0.411
14	0.379	0.219	0.438	-0.438
15	0.224	0.225	0.450	-0.450

Bokeelia Trends Appendix - Display 25

Correlogram for Surface Color in Bokeelia Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 26
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.164	0.014	0.014	-0.867

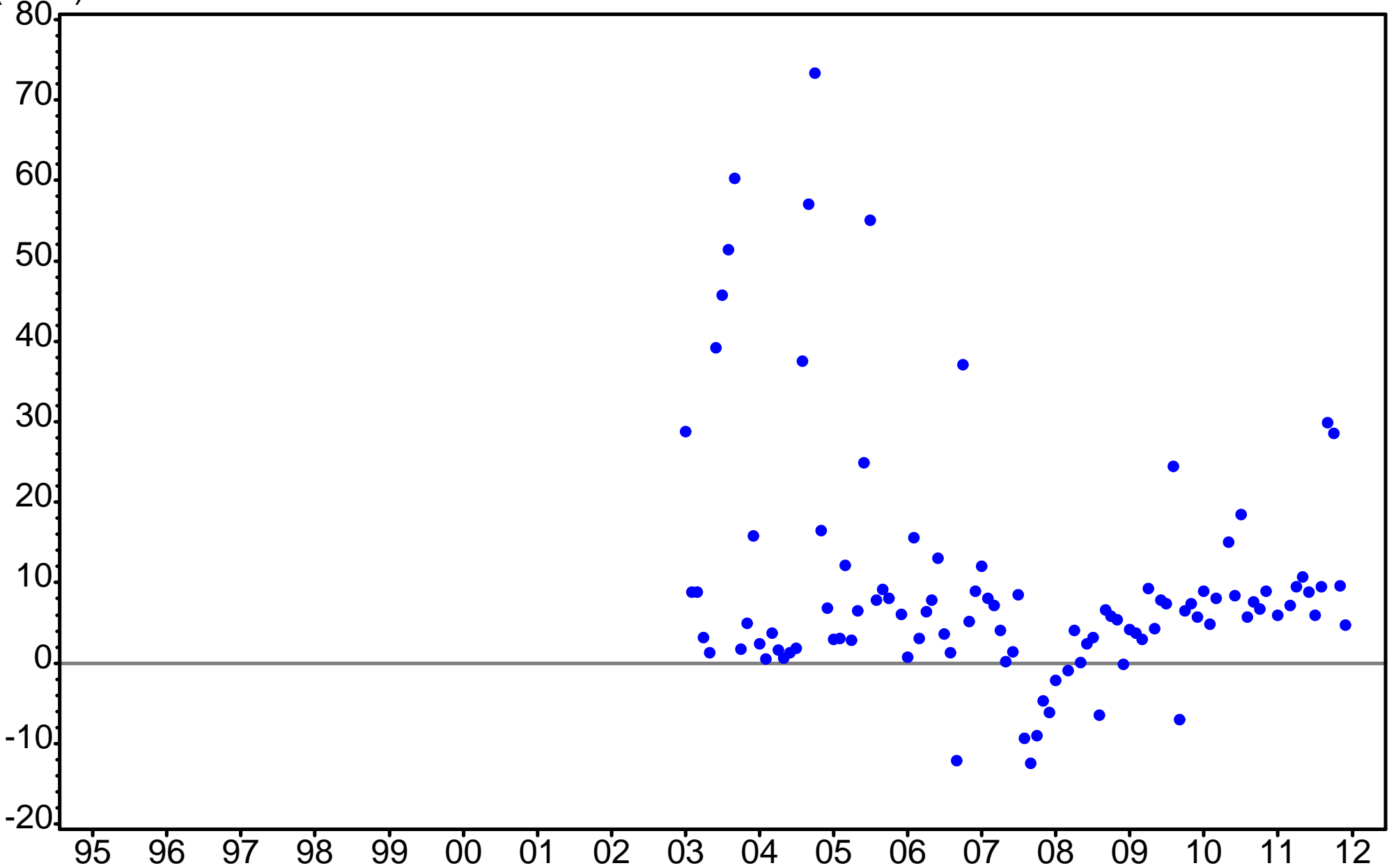
Bokeelia Trends Appendix - Display 27
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29008	.000296805	0.088129	-0.9915

Bokeelia Trends Appendix - Display 28

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(PCU)



Zero Reference Line Shown

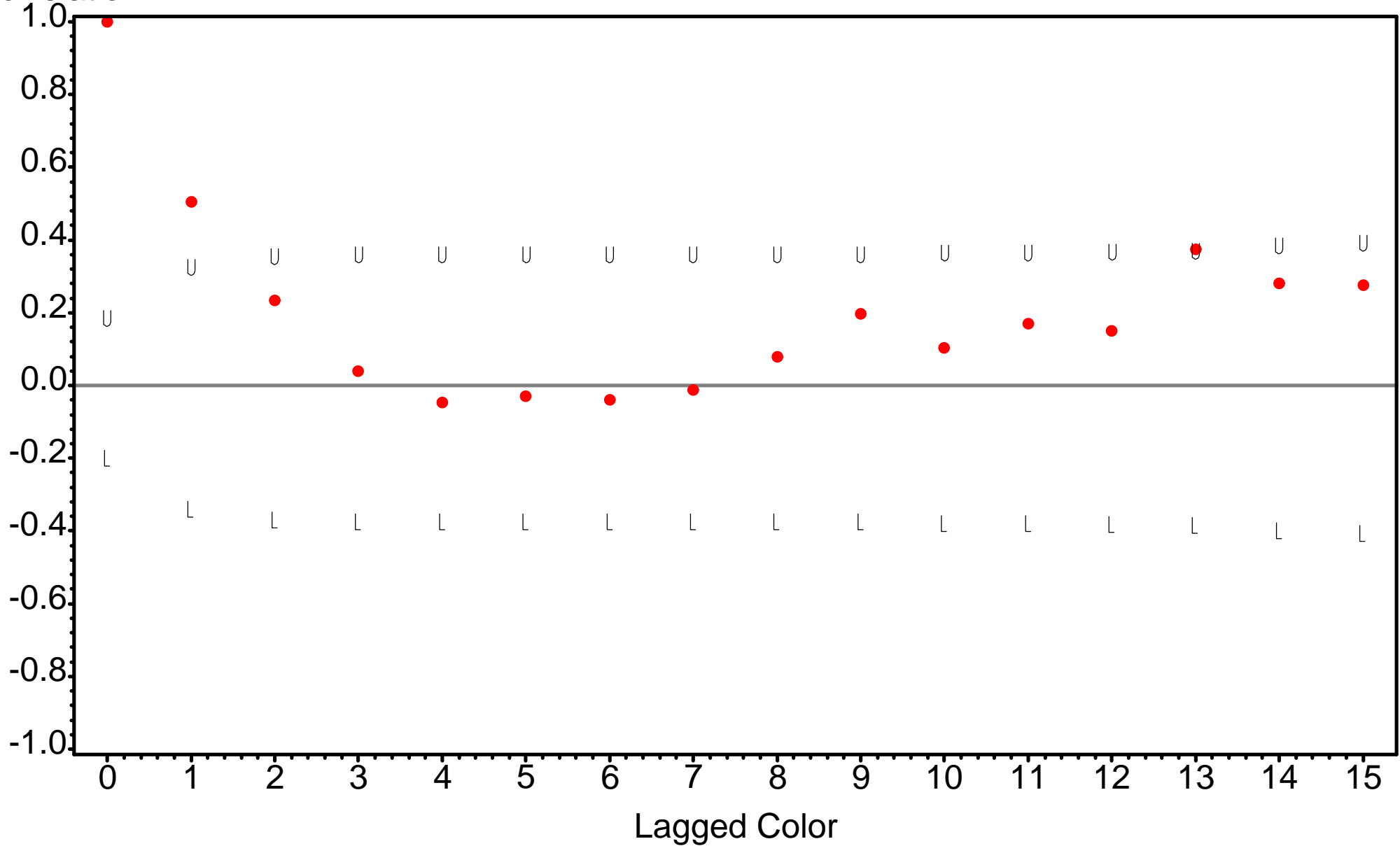
Bokeelia Trends Appendix - Display 29
Autocorrelation Statistics for Surface Color in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.505	0.167	0.333	-0.333
2	0.233	0.180	0.361	-0.361
3	0.039	0.183	0.366	-0.366
4	-0.046	0.183	0.366	-0.366
5	-0.029	0.183	0.366	-0.366
6	-0.039	0.183	0.367	-0.367
7	-0.012	0.183	0.367	-0.367
8	0.079	0.183	0.367	-0.367
9	0.196	0.184	0.367	-0.367
10	0.103	0.186	0.371	-0.371
11	0.170	0.186	0.372	-0.372
12	0.151	0.188	0.375	-0.375
13	0.374	0.189	0.377	-0.377
14	0.280	0.195	0.391	-0.391
15	0.276	0.199	0.398	-0.398

Bokeelia Trends Appendix - Display 30

Correlogram for Surface Color in Bokeelia
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

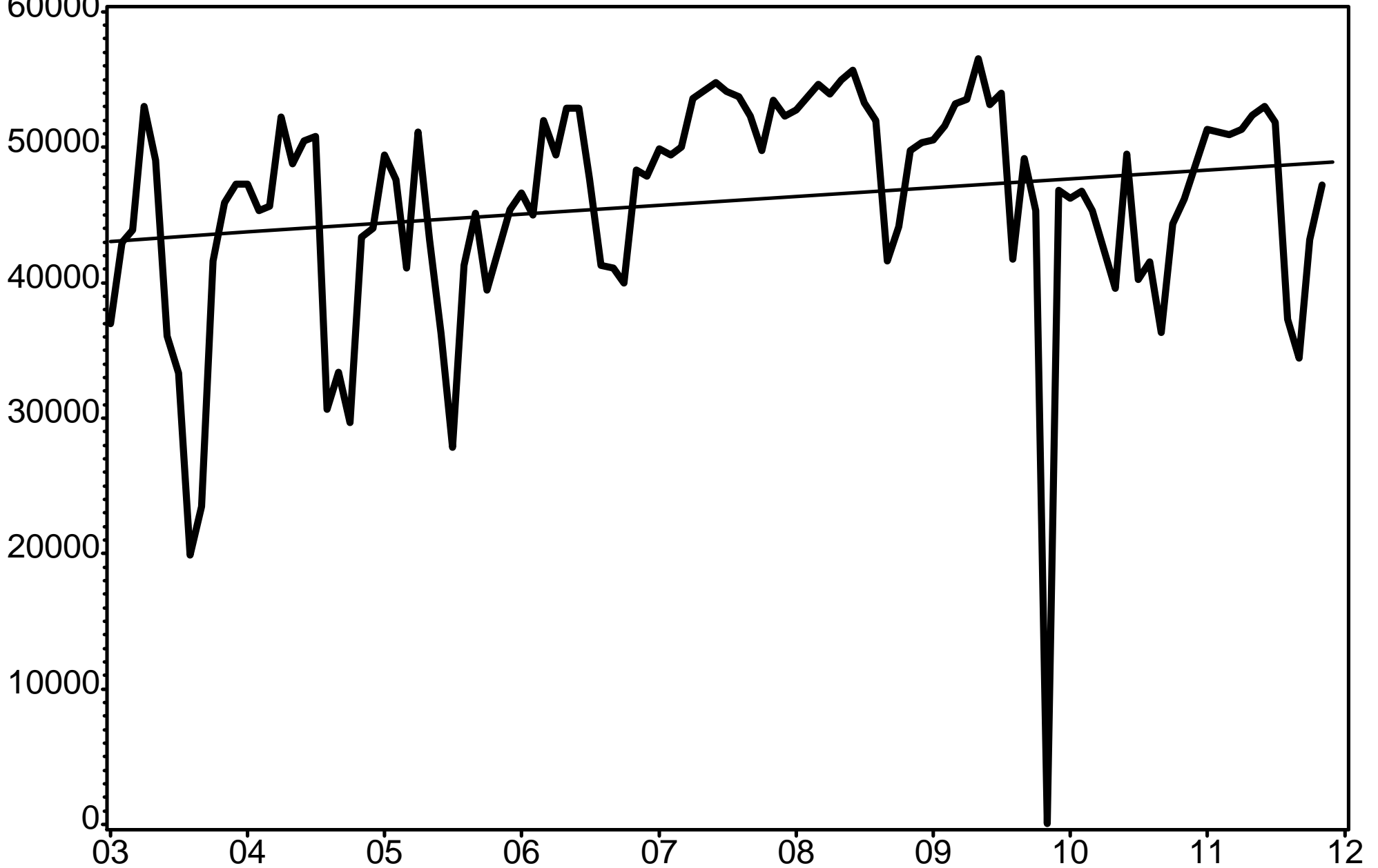
Bokeelia Trends Appendix - Display 31

Monthly Data Time Series

for Surface Specific Conductance in Bokeelia

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



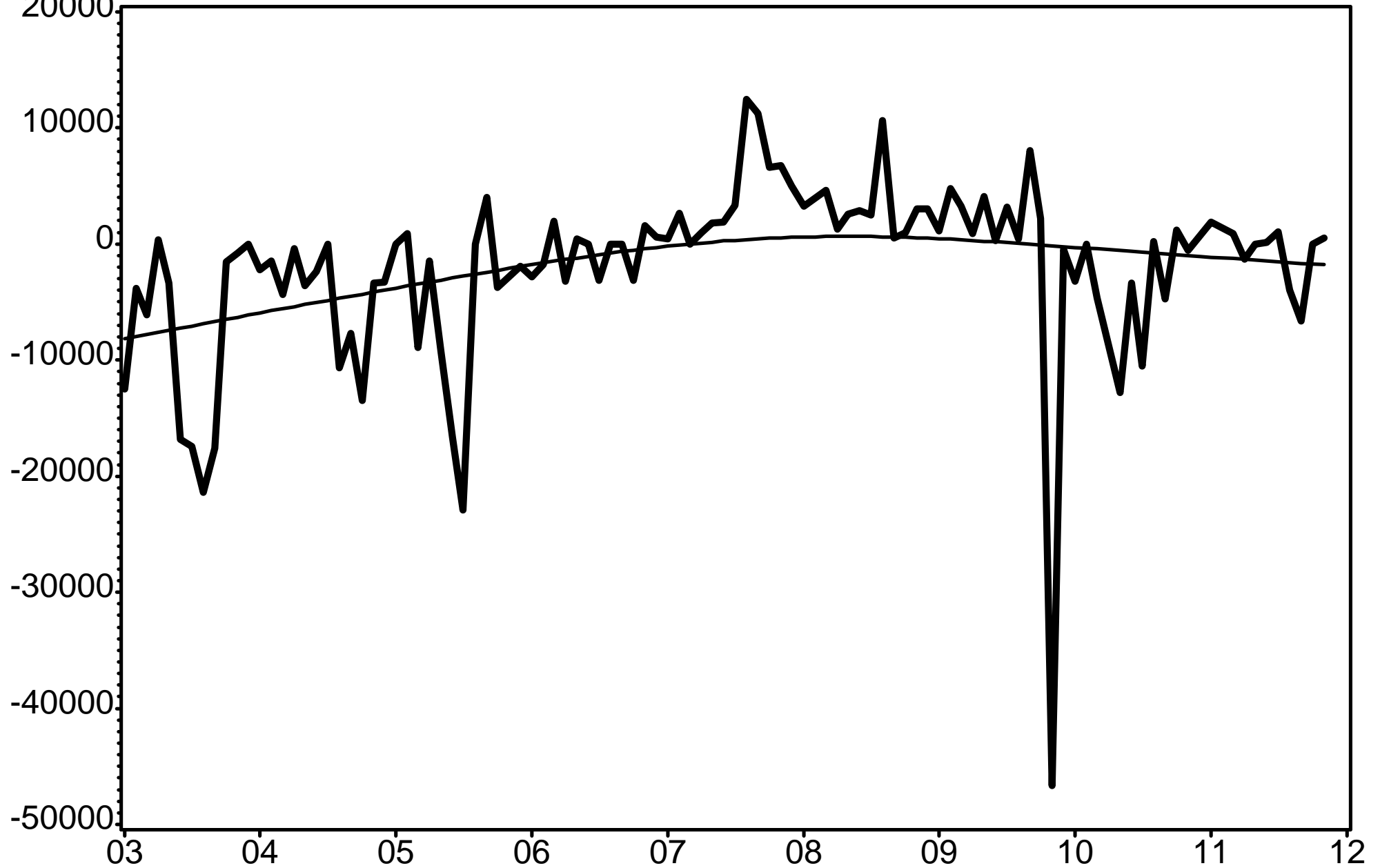
Bokeelia Trends Appendix - Display 32

Monthly Data Time Series

for Surface Specific Conductance in Bokeelia

Adjusted for Seasonal Medians

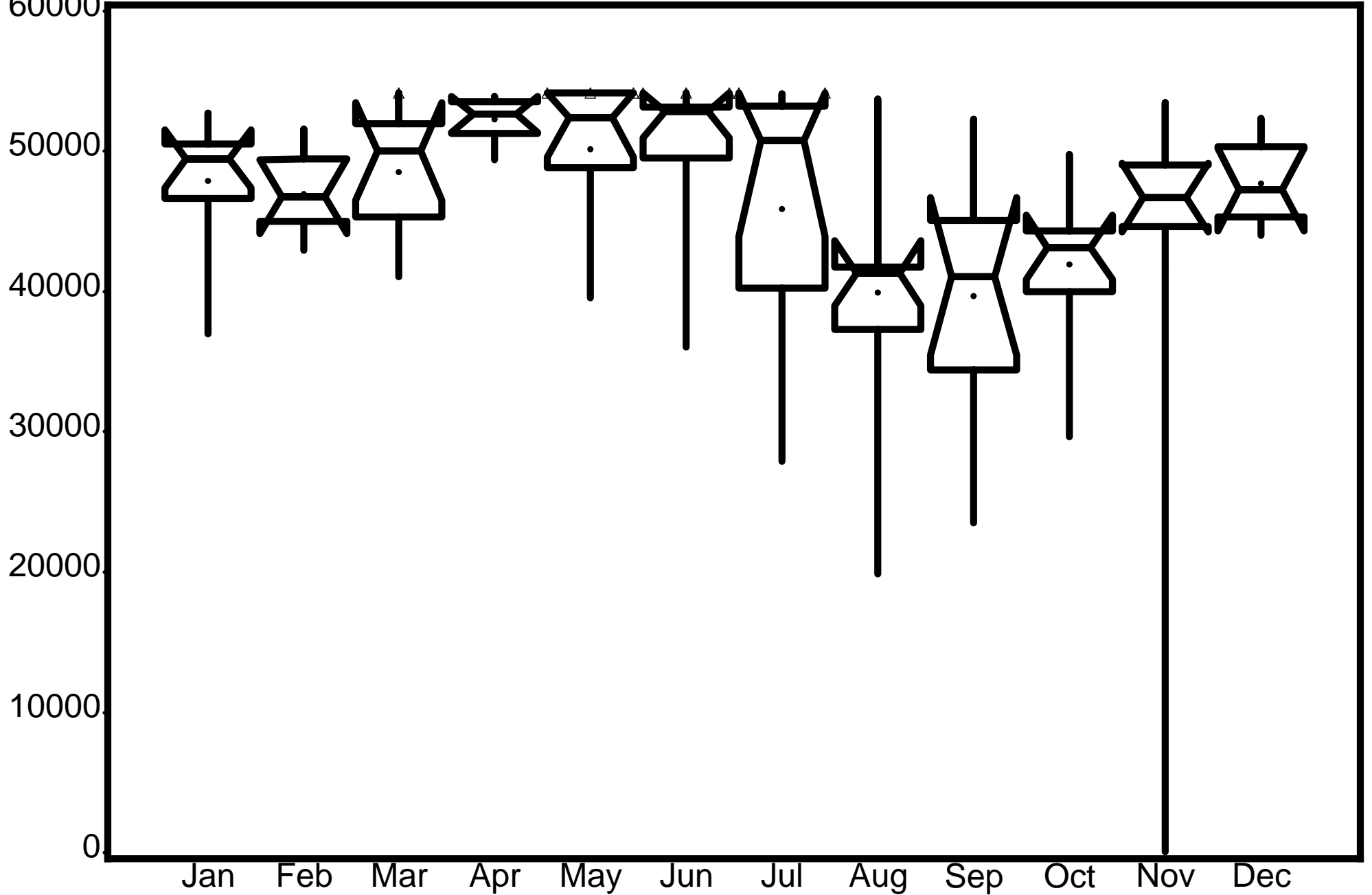
Adjusted
COND
($\mu\text{S}/\text{cm}$)



Bokeelia Trends Appendix - Display 33

Seasonal Univariate Statistics
for Surface Specific Conductance in Bokeelia

COND
($\mu\text{S}/\text{cm}$)
60000



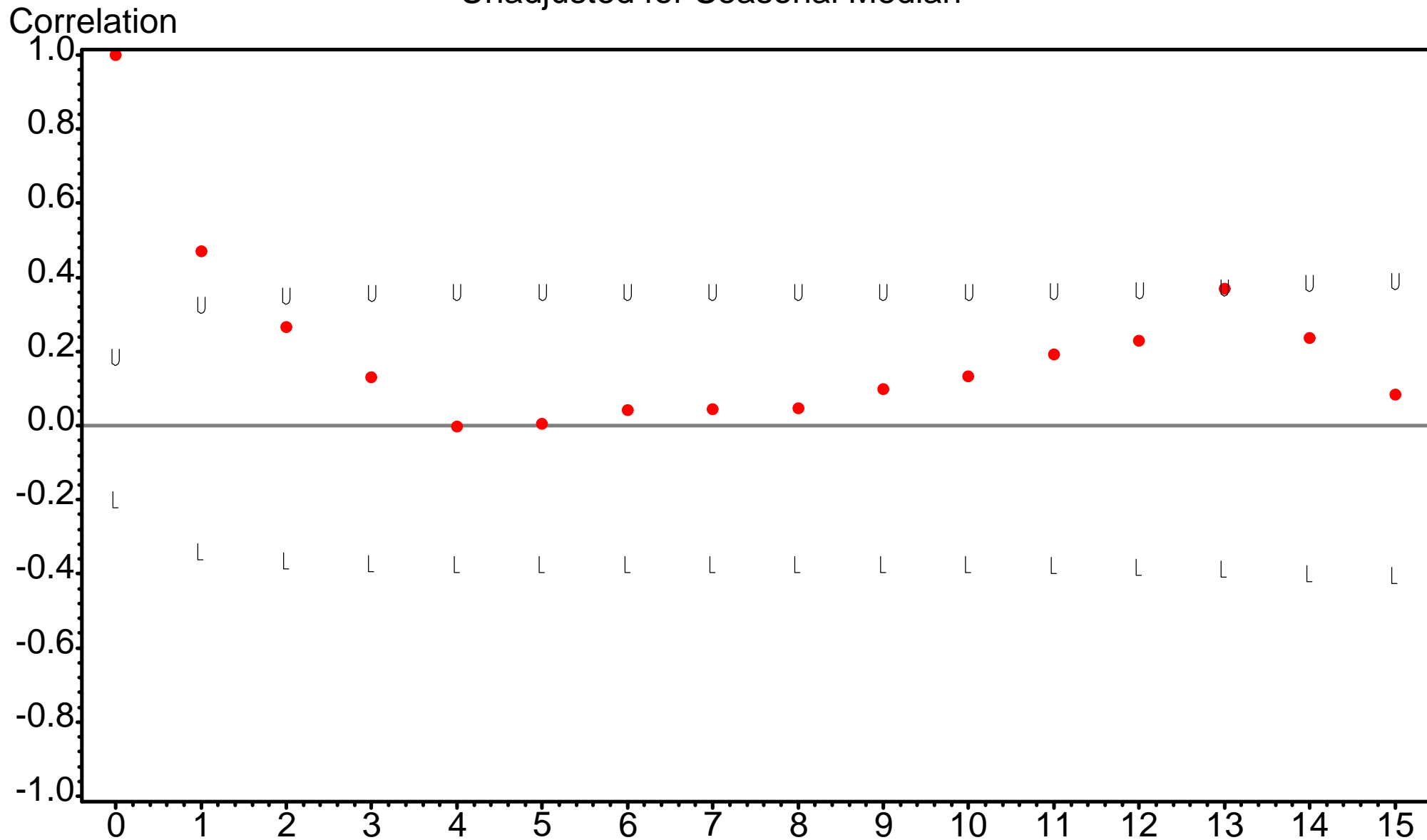
Bokeelia Trends Appendix - Display 34

Autocorrelation Statistics for Surface Specific Conductance in Bokeelia

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.470	0.167	0.333	-0.333
2	0.266	0.179	0.357	-0.357
3	0.130	0.182	0.364	-0.364
4	-0.003	0.183	0.366	-0.366
5	0.006	0.183	0.366	-0.366
6	0.041	0.183	0.366	-0.366
7	0.045	0.183	0.366	-0.366
8	0.048	0.183	0.366	-0.366
9	0.099	0.183	0.367	-0.367
10	0.133	0.184	0.368	-0.368
11	0.191	0.185	0.369	-0.369
12	0.230	0.187	0.373	-0.373
13	0.369	0.189	0.378	-0.378
14	0.237	0.196	0.391	-0.391
15	0.083	0.198	0.397	-0.397

Bokeelia Trends Appendix - Display 35

Correlogram for Surface Specific Conductance in Bokeelia Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 36
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.177	.008	.008	674.302

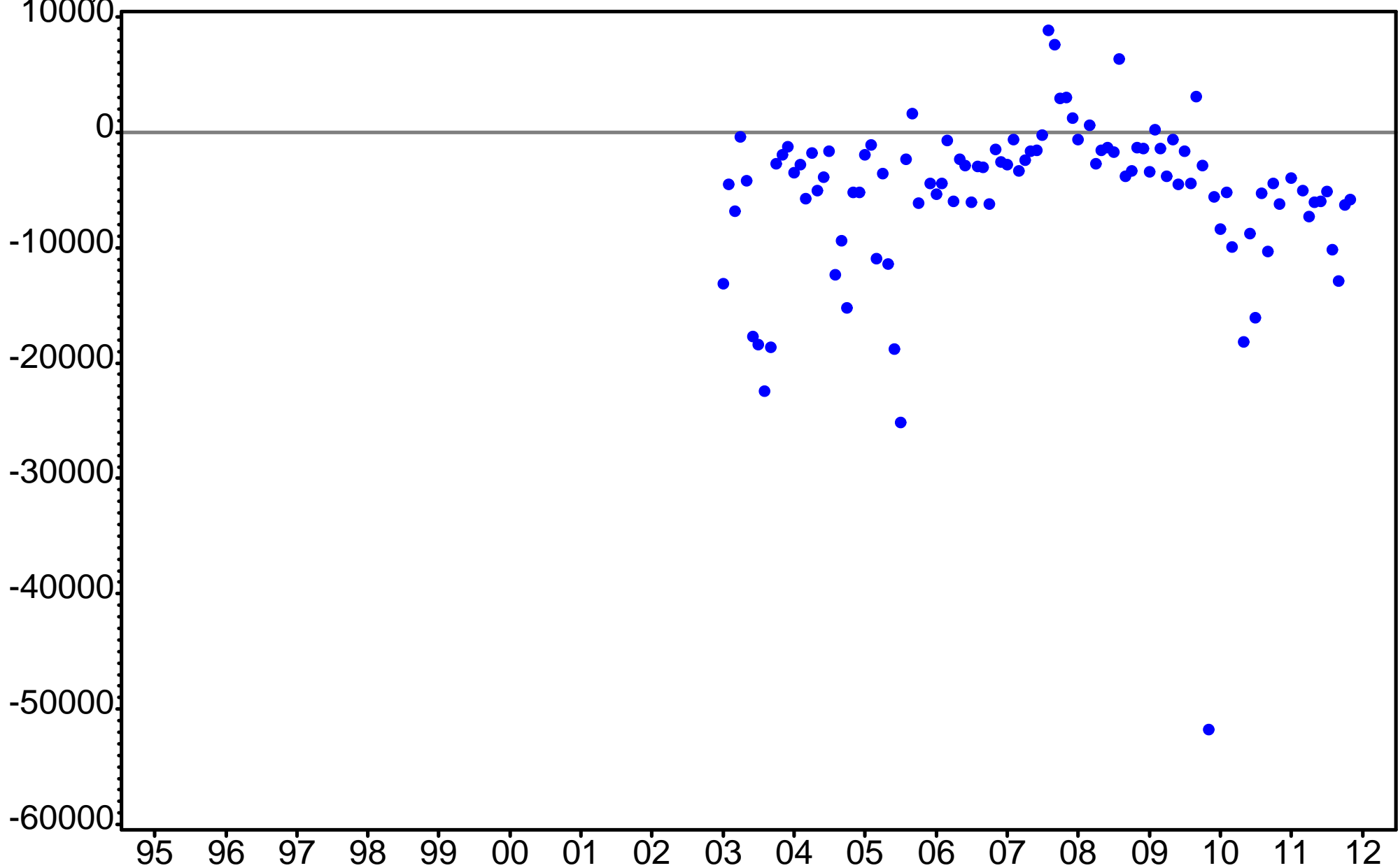
Bokeelia Trends Appendix - Display 37
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.29534	.000256419	0.15728	647.8

Bokeelia Trends Appendix - Display 38

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(uS/cm)



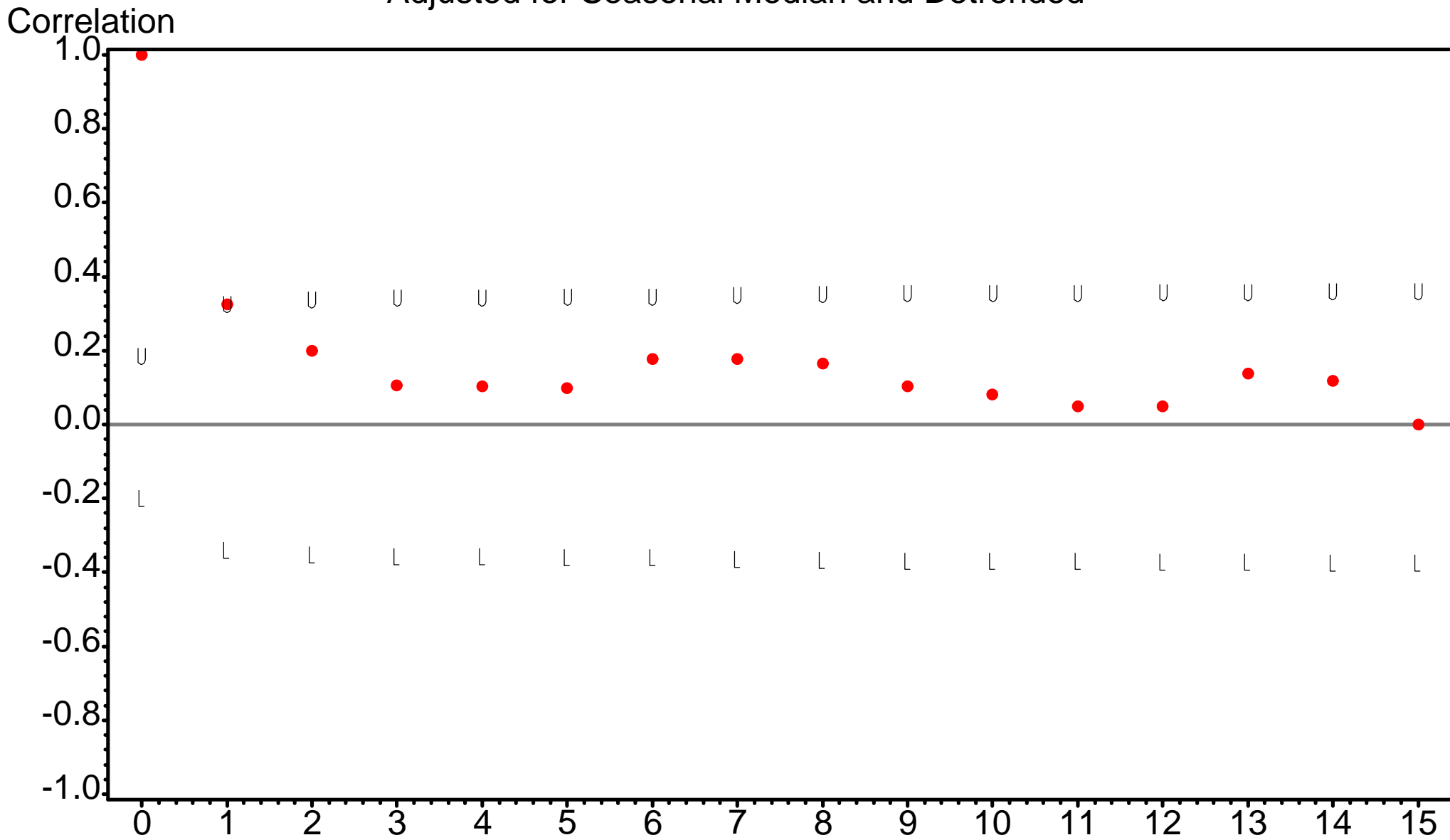
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 39
Autocorrelation Statistics for Surface Specific Conductance in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.324	0.167	0.333	-0.333
2	0.199	0.172	0.345	-0.345
3	0.105	0.175	0.349	-0.349
4	0.104	0.175	0.350	-0.350
5	0.099	0.176	0.351	-0.351
6	0.177	0.176	0.352	-0.352
7	0.177	0.178	0.356	-0.356
8	0.165	0.179	0.359	-0.359
9	0.104	0.181	0.362	-0.362
10	0.082	0.181	0.363	-0.363
11	0.050	0.182	0.363	-0.363
12	0.049	0.182	0.364	-0.364
13	0.138	0.182	0.364	-0.364
14	0.119	0.183	0.366	-0.366
15	0.001	0.184	0.367	-0.367

Bokeelia Trends Appendix - Display 40

Correlogram for Surface Specific Conductance in Bokeelia Adjusted for Seasonal Median and Detrended

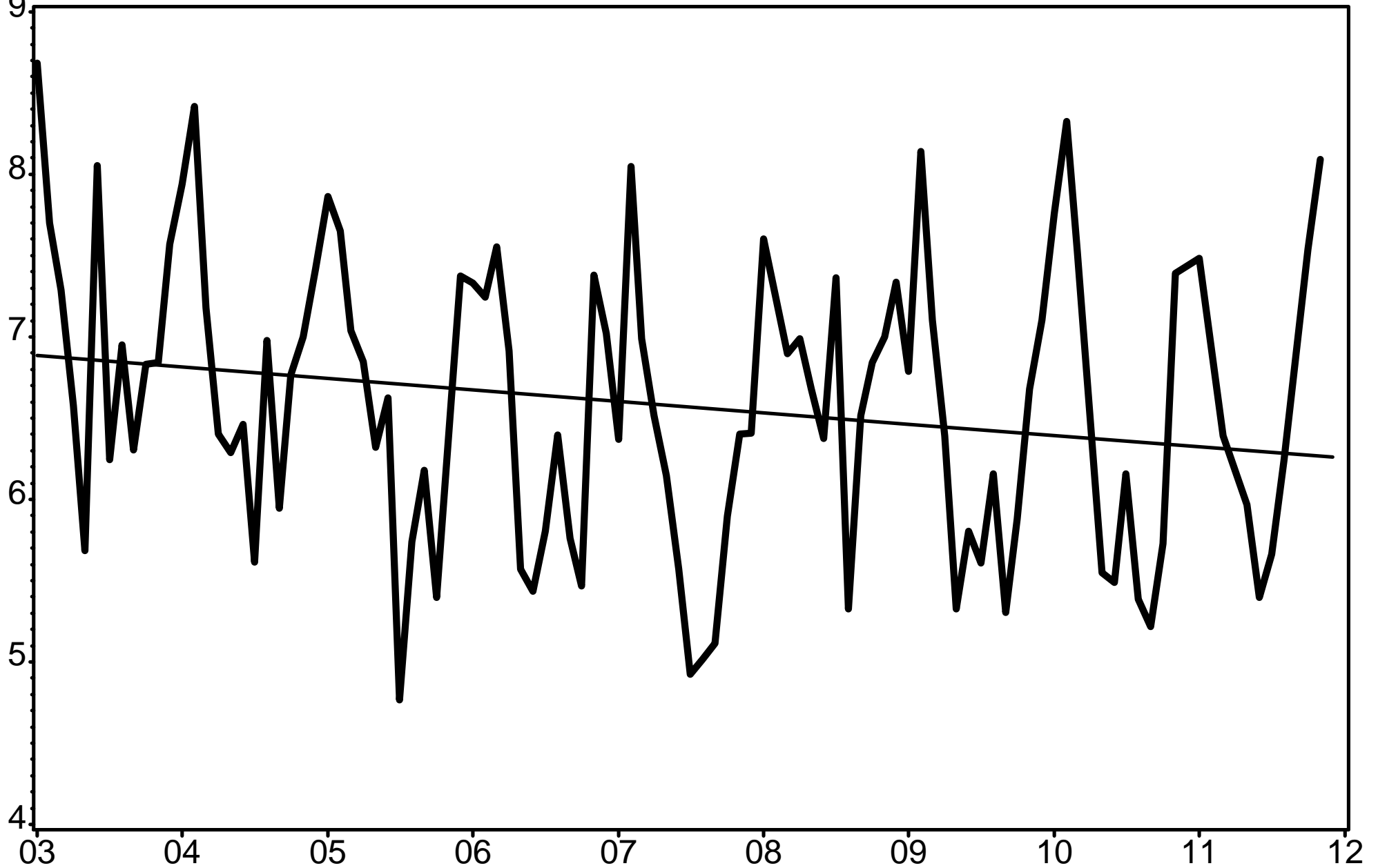


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 41

Monthly Data Time Series
for Surface Dissolved Oxygen in Bokeelia
Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



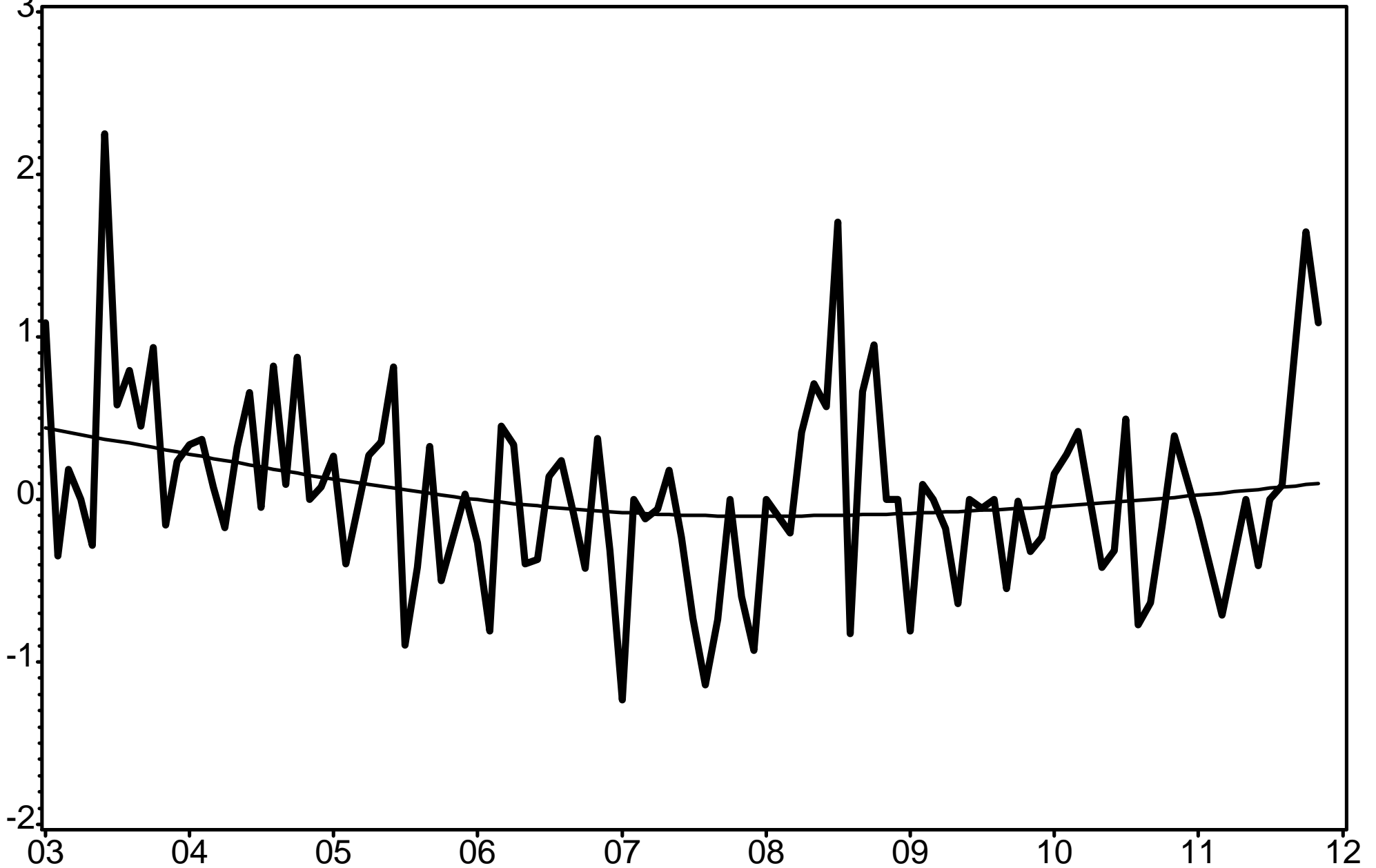
Bokeelia Trends Appendix - Display 42

Monthly Data Time Series

for Surface Dissolved Oxygen in Bokeelia

Adjusted for Seasonal Medians

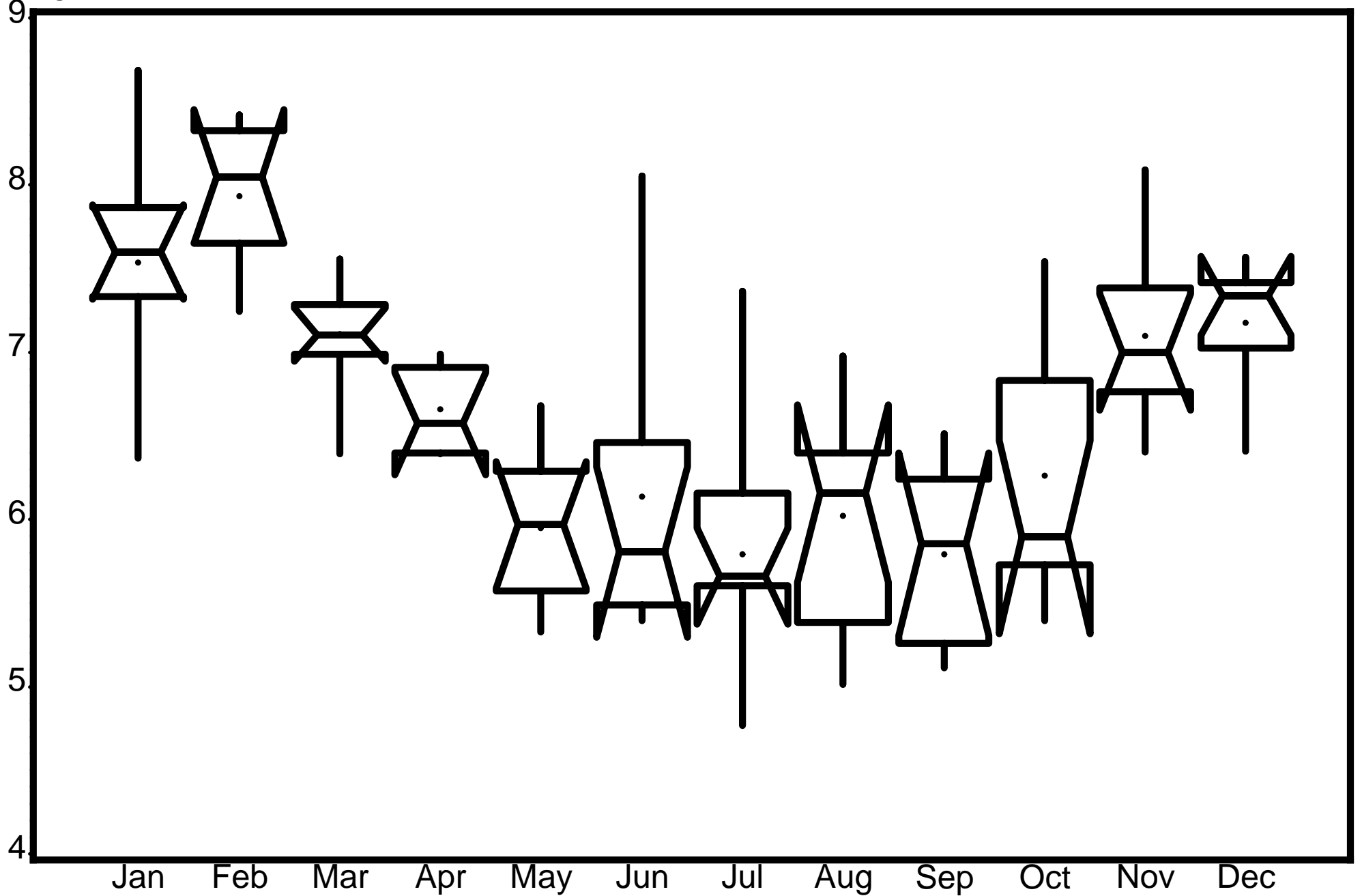
Adjusted
DO_mgl
(mg/l)



Bokeelia Trends Appendix - Display 43

Seasonal Univariate Statistics
for Surface Dissolved Oxygen in Bokeelia

DO_mgl
(mg/l)



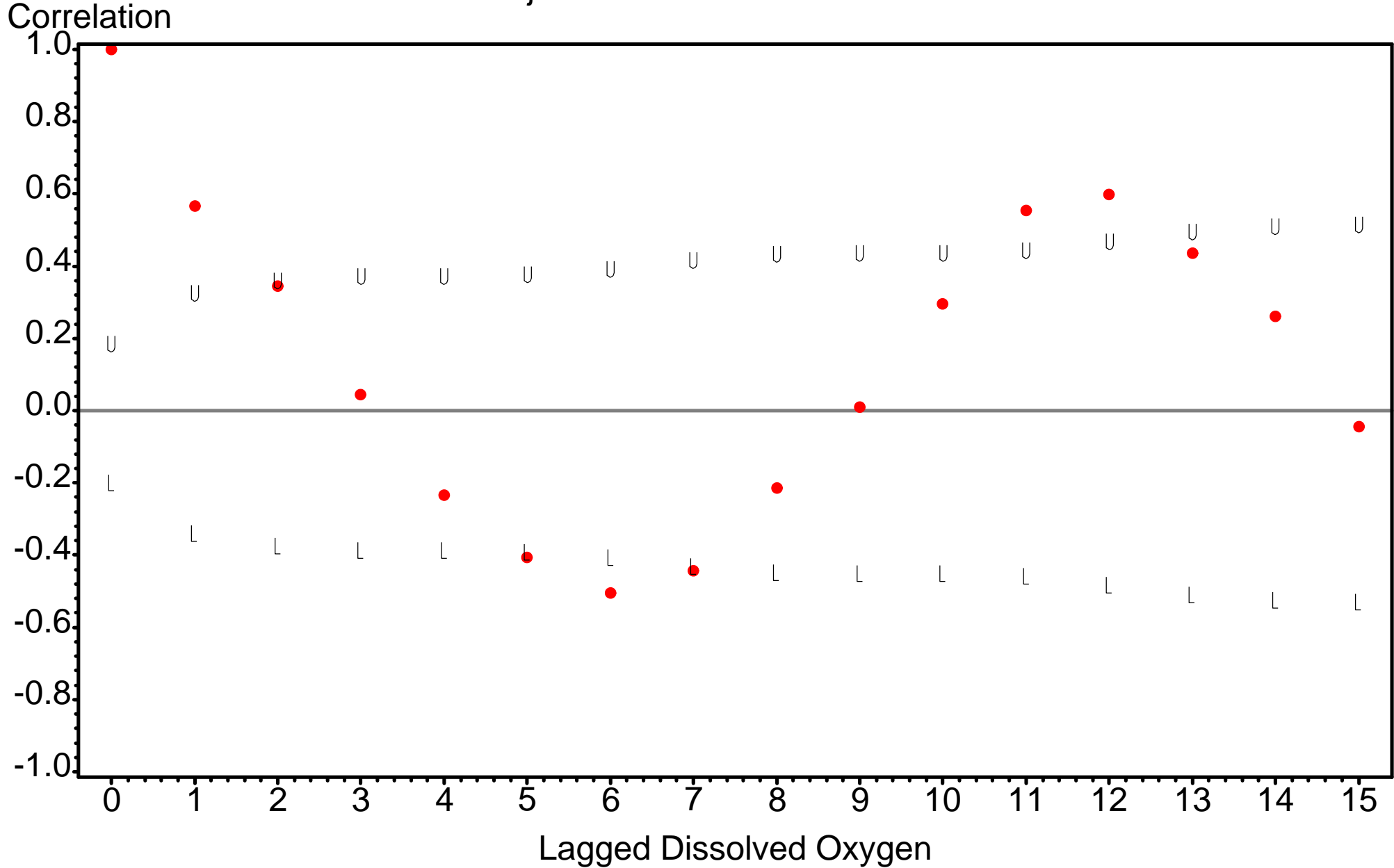
Bokeelia Trends Appendix - Display 44
Autocorrelation Statistics for Surface Dissolved Oxygen in Bokeelia

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.566	0.167	0.333	-0.333
2	0.345	0.184	0.367	-0.367
3	0.045	0.189	0.379	-0.379
4	-0.235	0.190	0.379	-0.379
5	-0.407	0.192	0.385	-0.385
6	-0.504	0.200	0.400	-0.400
7	-0.442	0.212	0.423	-0.423
8	-0.213	0.220	0.440	-0.440
9	0.009	0.222	0.444	-0.444
10	0.296	0.222	0.444	-0.444
11	0.555	0.225	0.451	-0.451
12	0.599	0.238	0.476	-0.476
13	0.435	0.251	0.503	-0.503
14	0.260	0.258	0.516	-0.516
15	-0.044	0.261	0.521	-0.521

Bokeelia Trends Appendix - Display 45

Correlogram for Surface Dissolved Oxygen in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 46
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.132	0.052	0.052	-0.079

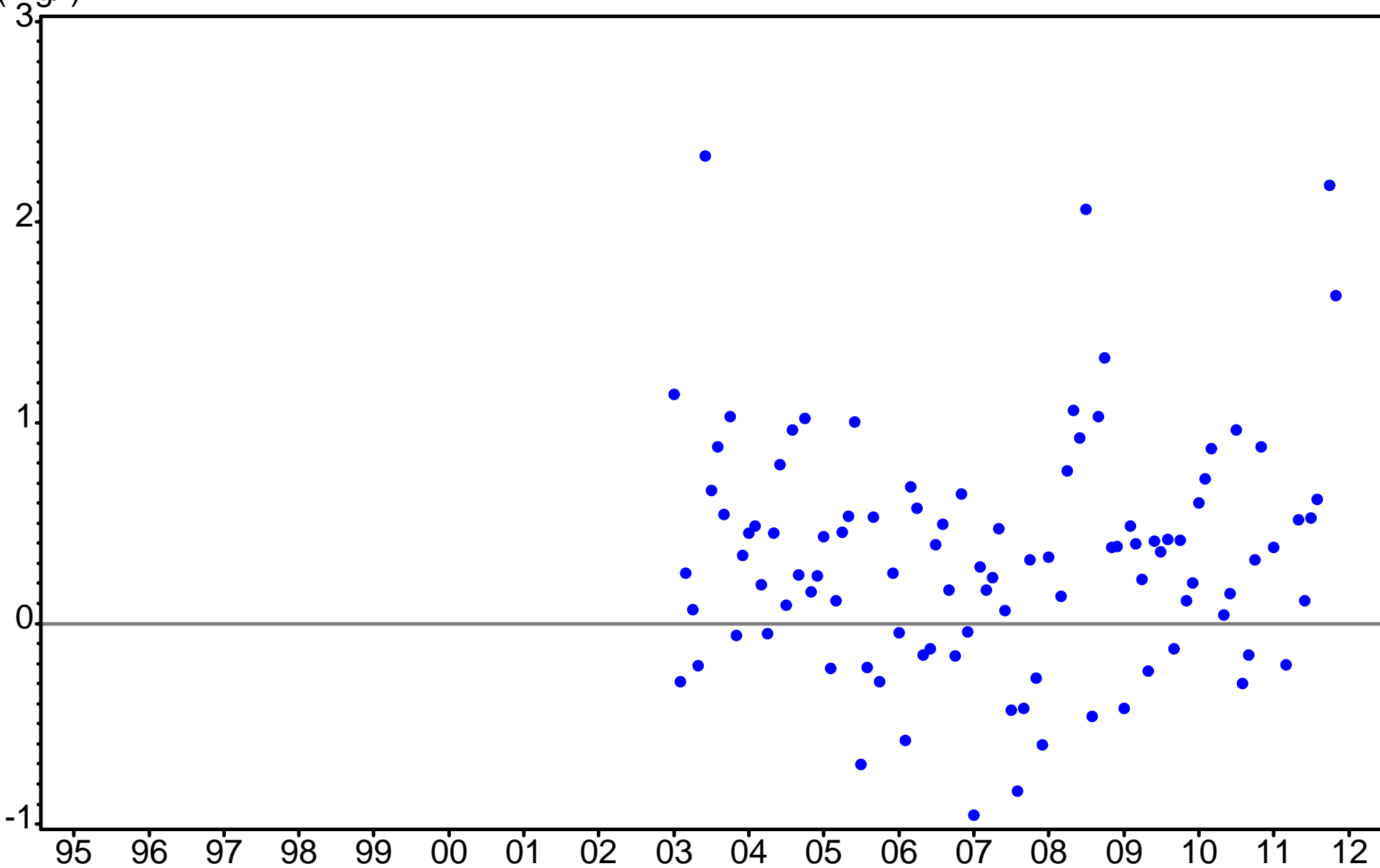
Bokeelia Trends Appendix - Display 47
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.18059	0.028475	0.19031	-0.055333

Bokeelia Trends Appendix - Display 48

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(mg/l)



Zero Reference Line Shown

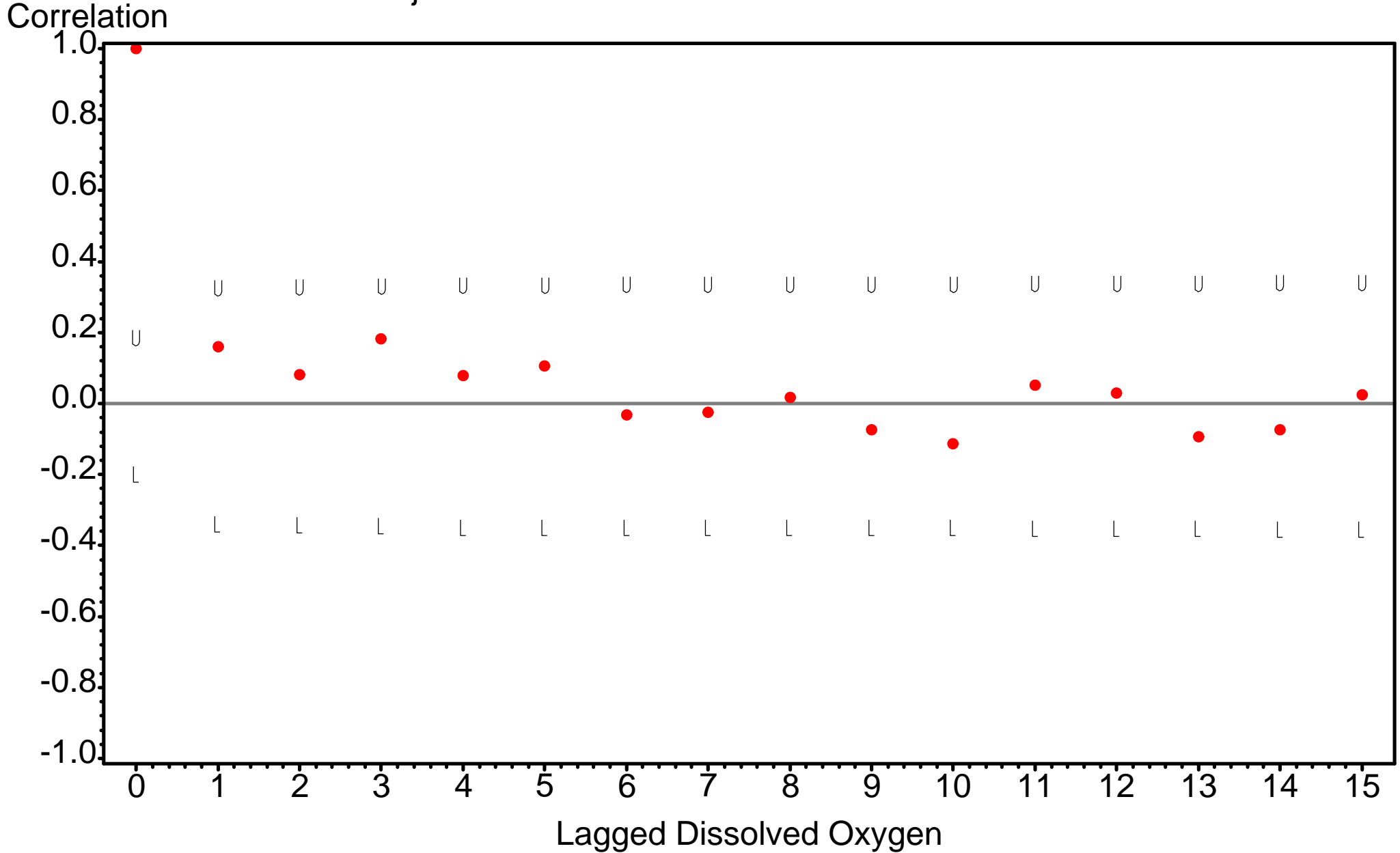
Bokeelia Trends Appendix - Display 49
Autocorrelation Statistics for Surface Dissolved Oxygen in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.161	0.167	0.333	-0.333
2	0.081	0.168	0.336	-0.336
3	0.183	0.168	0.337	-0.337
4	0.080	0.170	0.341	-0.341
5	0.106	0.171	0.341	-0.341
6	-0.033	0.171	0.342	-0.342
7	-0.025	0.171	0.343	-0.343
8	0.018	0.171	0.343	-0.343
9	-0.075	0.171	0.343	-0.343
10	-0.112	0.172	0.343	-0.343
11	0.051	0.172	0.345	-0.345
12	0.029	0.172	0.345	-0.345
13	-0.094	0.173	0.345	-0.345
14	-0.075	0.173	0.346	-0.346
15	0.025	0.173	0.347	-0.347

Bokeelia Trends Appendix - Display 50

Correlogram for Surface Dissolved Oxygen in Bokeelia

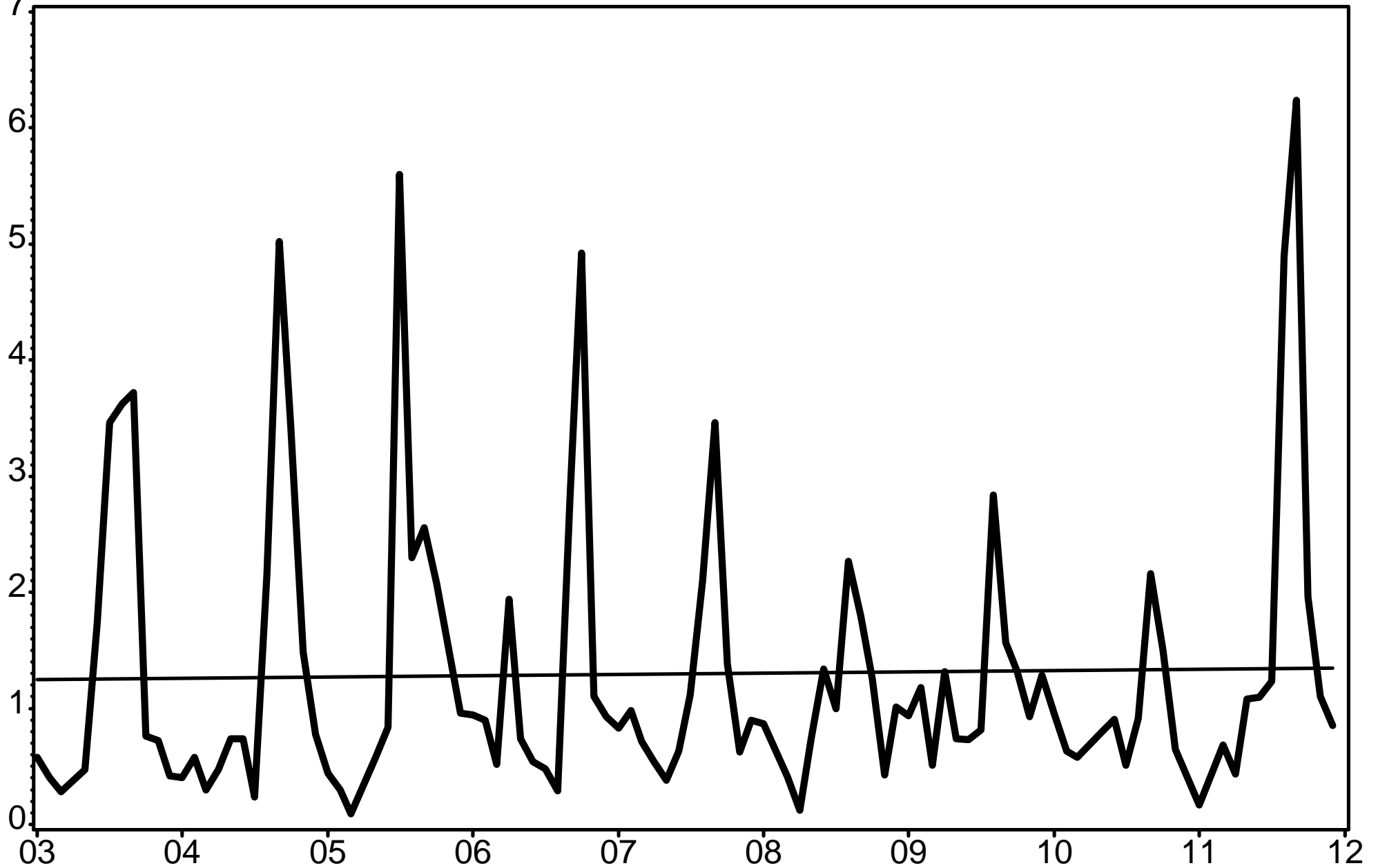
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 51
Monthly Data Time Series
for Surface Dissolved Silica (as SiO₂) in Bokeelia
Not Adjusted for Seasonal Medians

DSI_mgl
(mg/L)



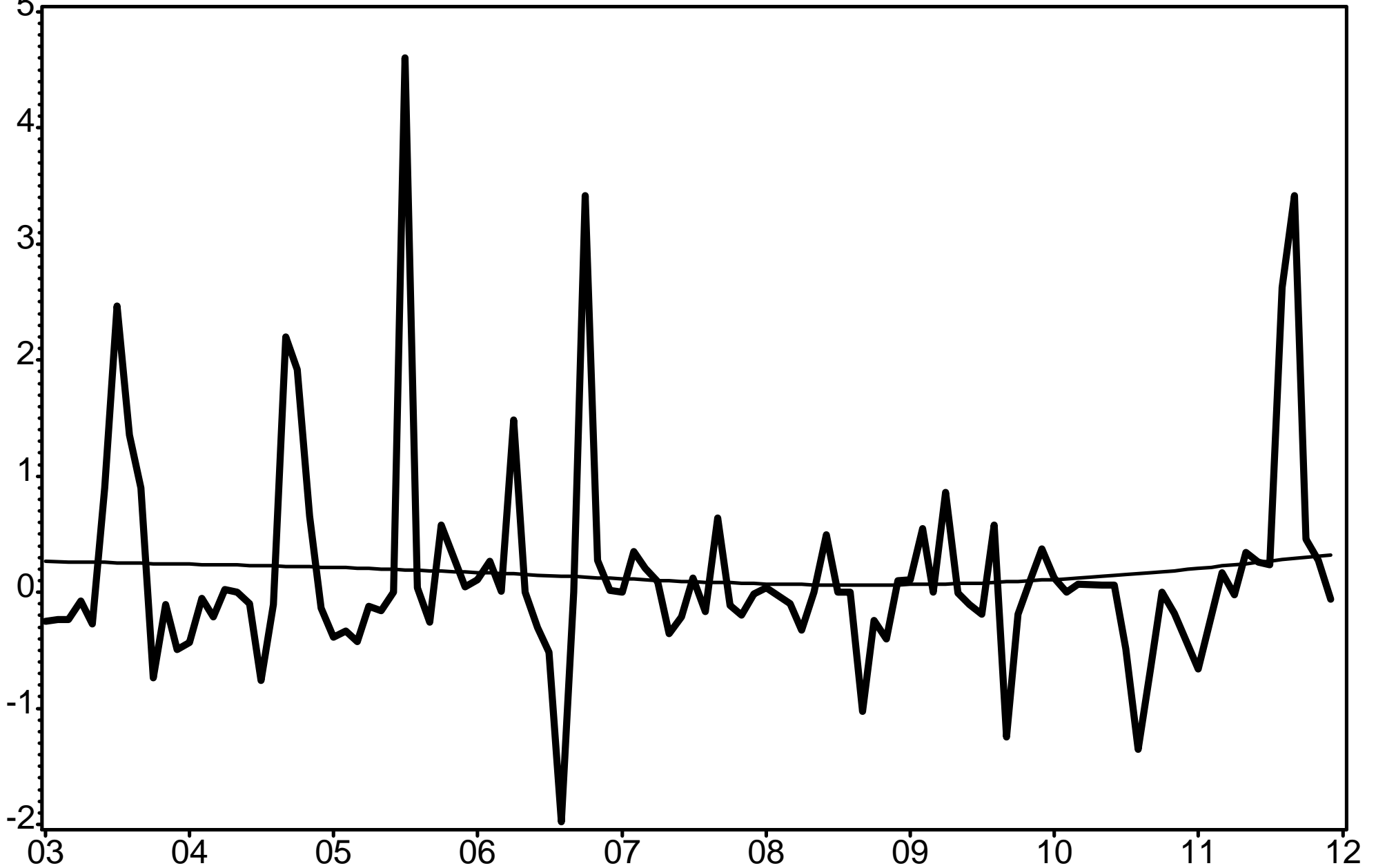
Bokeelia Trends Appendix - Display 52

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Bokeelia

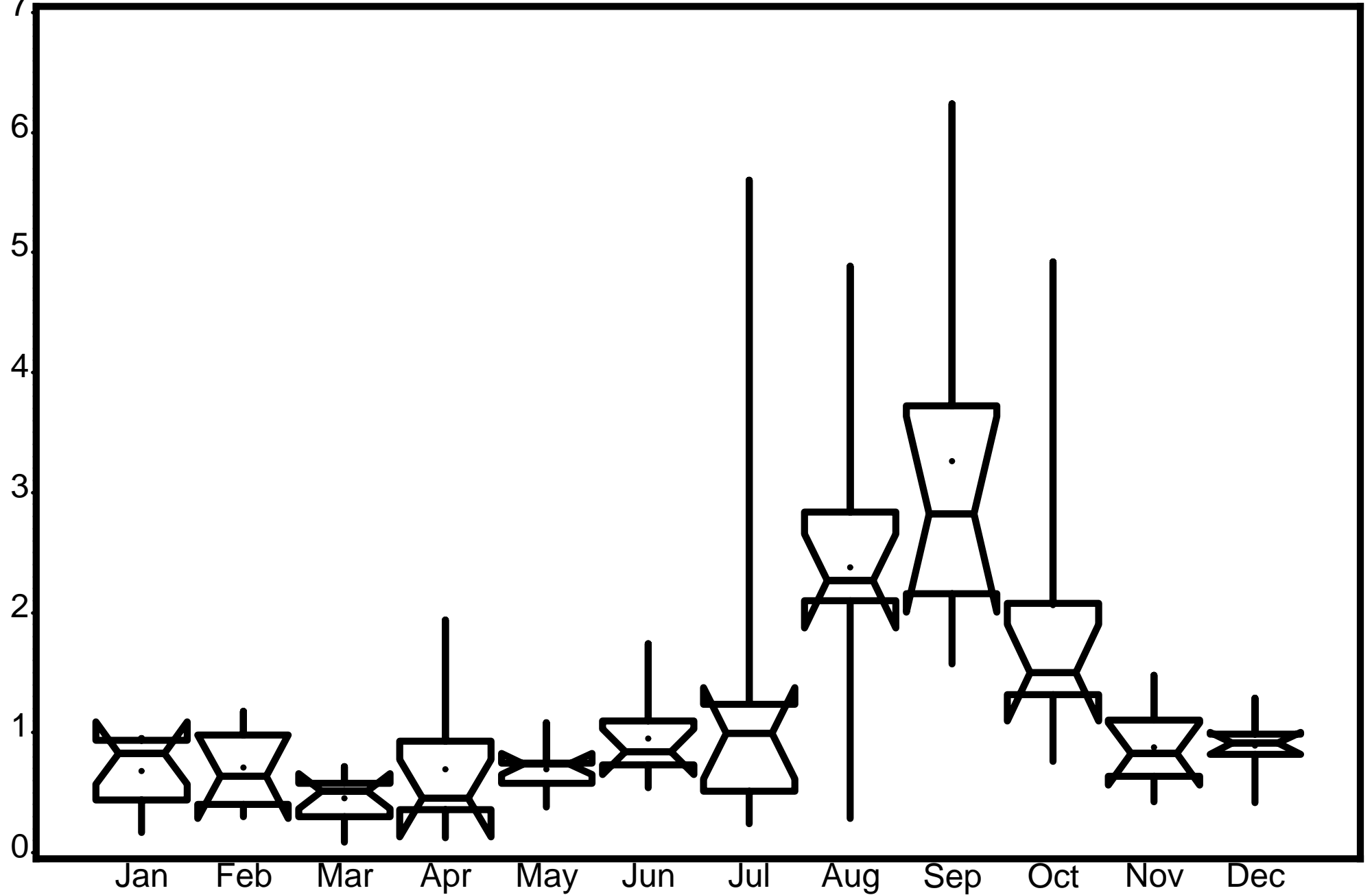
Adjusted for Seasonal Medians

Adjusted
DSI_mgl
(mg/L)



Bokeelia Trends Appendix - Display 53
Seasonal Univariate Statistics
for Surface Dissolved Silica (as SiO₂) in Bokeelia

DSI_mgl
(mg/L)



Bokeelia Trends Appendix - Display 54

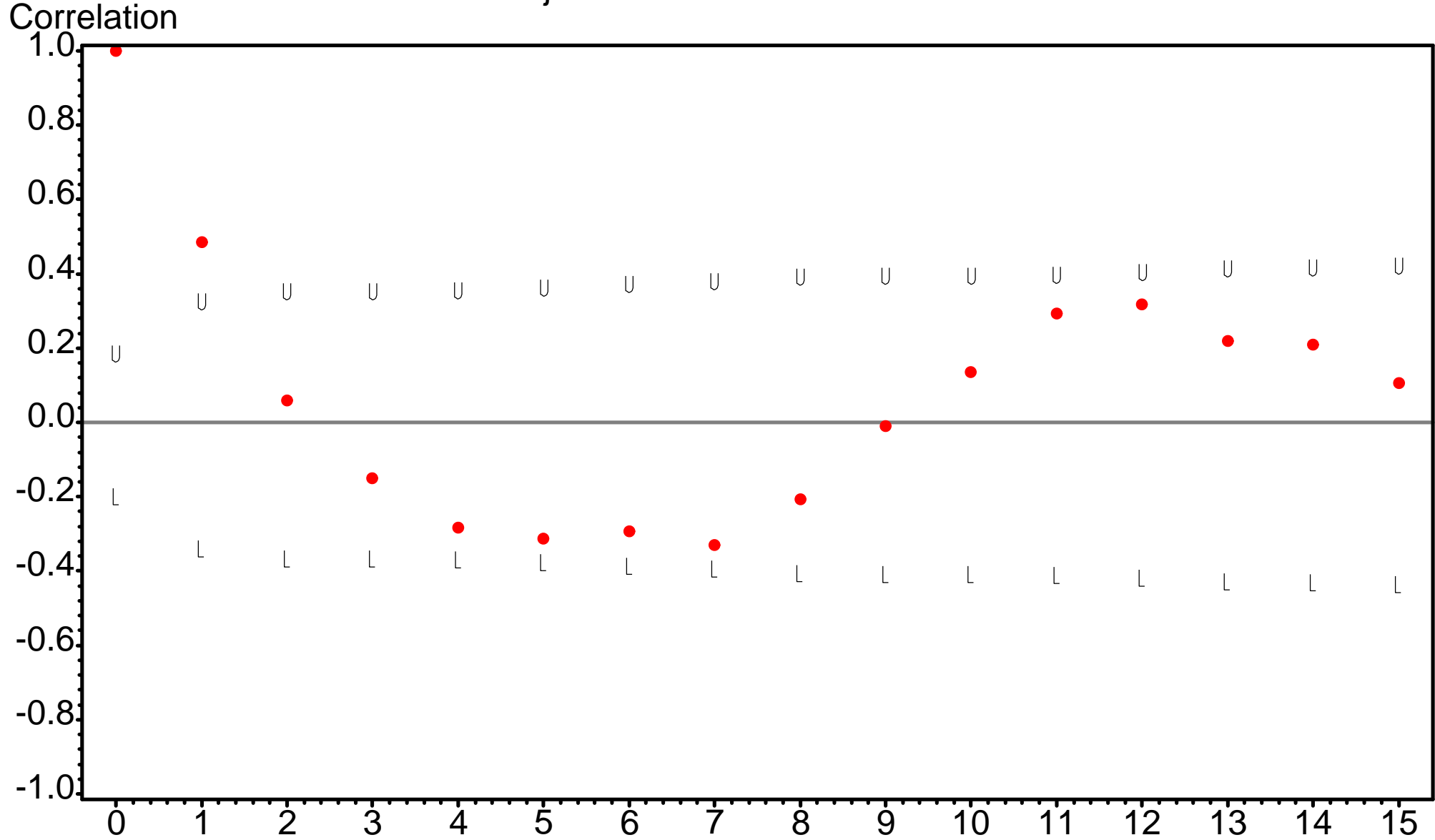
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Bokeelia

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.486	0.167	0.333	-0.333
2	0.058	0.179	0.359	-0.359
3	-0.150	0.179	0.359	-0.359
4	-0.282	0.181	0.361	-0.361
5	-0.312	0.185	0.369	-0.369
6	-0.294	0.189	0.379	-0.379
7	-0.329	0.194	0.387	-0.387
8	-0.208	0.199	0.398	-0.398
9	-0.009	0.201	0.402	-0.402
10	0.136	0.201	0.402	-0.402
11	0.292	0.202	0.403	-0.403
12	0.318	0.206	0.411	-0.411
13	0.219	0.210	0.420	-0.420
14	0.209	0.212	0.424	-0.424
15	0.106	0.214	0.428	-0.428

Bokeelia Trends Appendix - Display 55

Correlogram for Surface Dissolved Silica (as SiO₂) in Bokeelia

Unadjusted for Seasonal Median



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 56
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.121	0.071	0.071	0.039

Bokeelia Trends Appendix - Display 57
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Bokeelia
Adjusted for Seasonal Medians

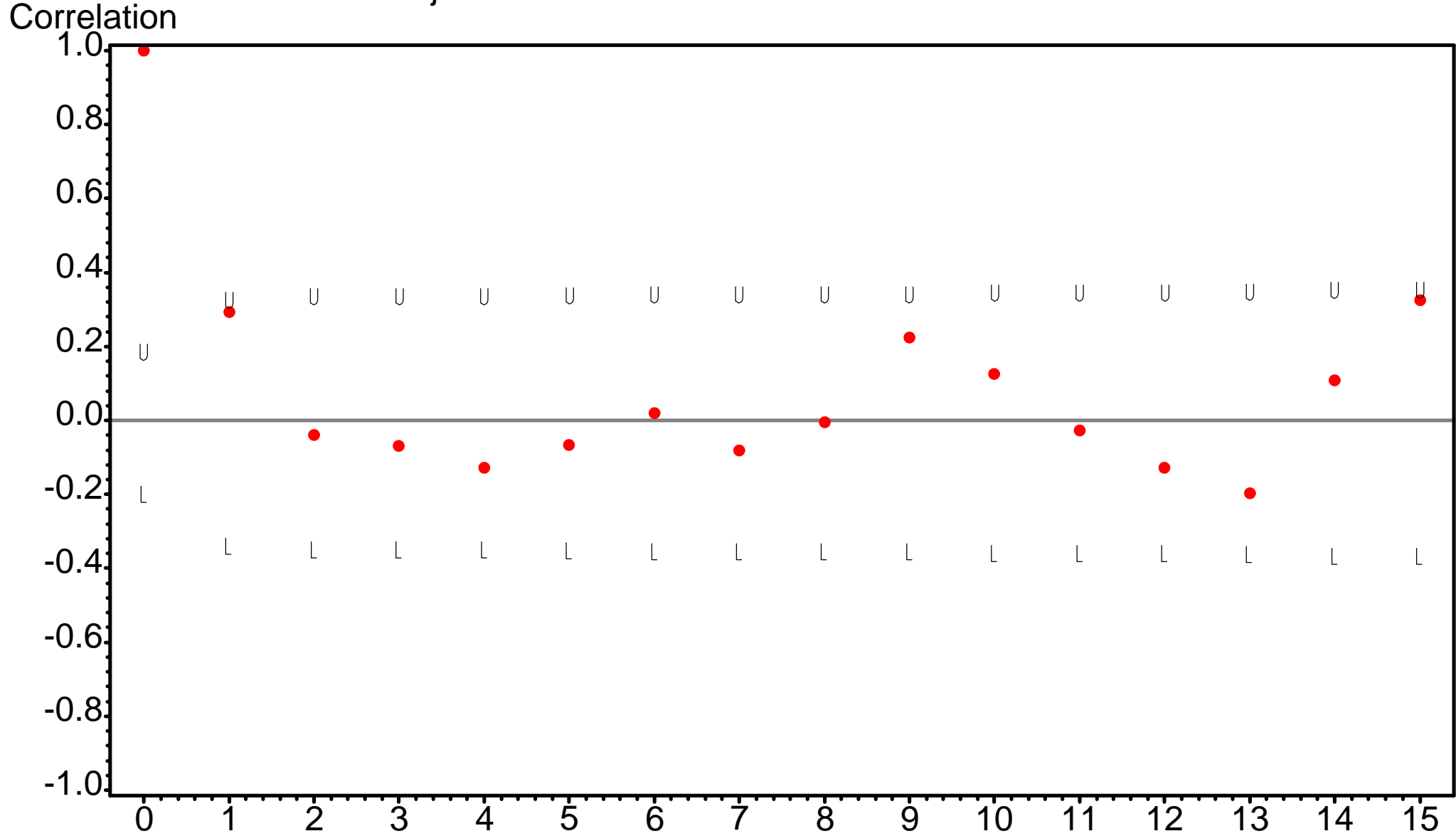
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.16285	0.043668	0.013856	0.04

Bokeelia Trends Appendix - Display 59
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Silica (as SiO₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.292	0.167	0.333	-0.333
2	-0.040	0.171	0.343	-0.343
3	-0.069	0.171	0.343	-0.343
4	-0.129	0.172	0.343	-0.343
5	-0.066	0.173	0.345	-0.345
6	0.019	0.173	0.346	-0.346
7	-0.081	0.173	0.346	-0.346
8	-0.004	0.173	0.346	-0.346
9	0.225	0.173	0.346	-0.346
10	0.125	0.176	0.352	-0.352
11	-0.028	0.177	0.353	-0.353
12	-0.129	0.177	0.353	-0.353
13	-0.198	0.178	0.355	-0.355
14	0.108	0.180	0.359	-0.359
15	0.326	0.180	0.360	-0.360

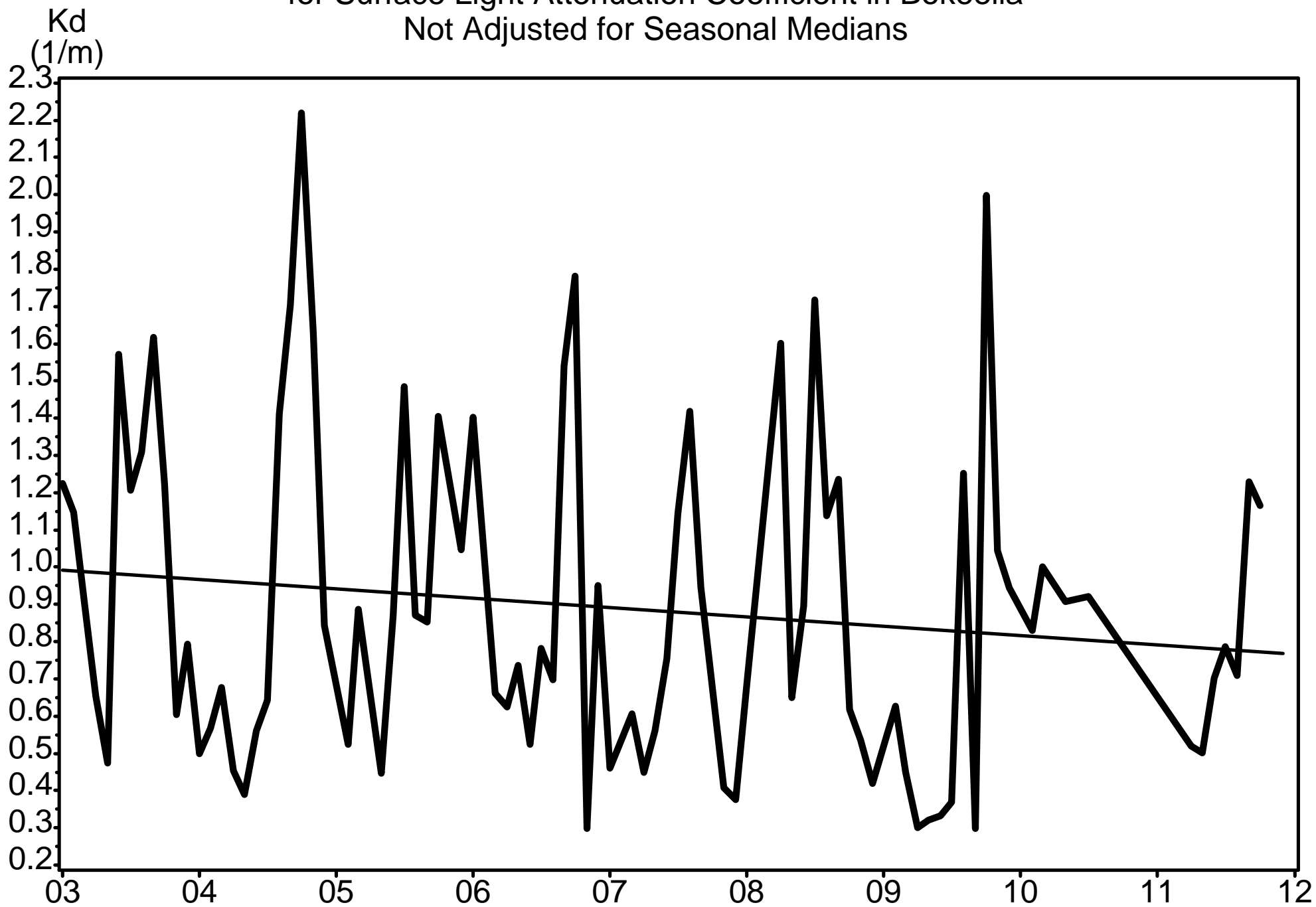
Bokeelia Trends Appendix - Display 60

Correlogram for Surface Dissolved Silica (as SiO₂) in Bokeelia Adjusted for Seasonal Median and Detrended



Lagged Dissolved Silica (as SiO₂)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 61
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Bokeelia
Not Adjusted for Seasonal Medians



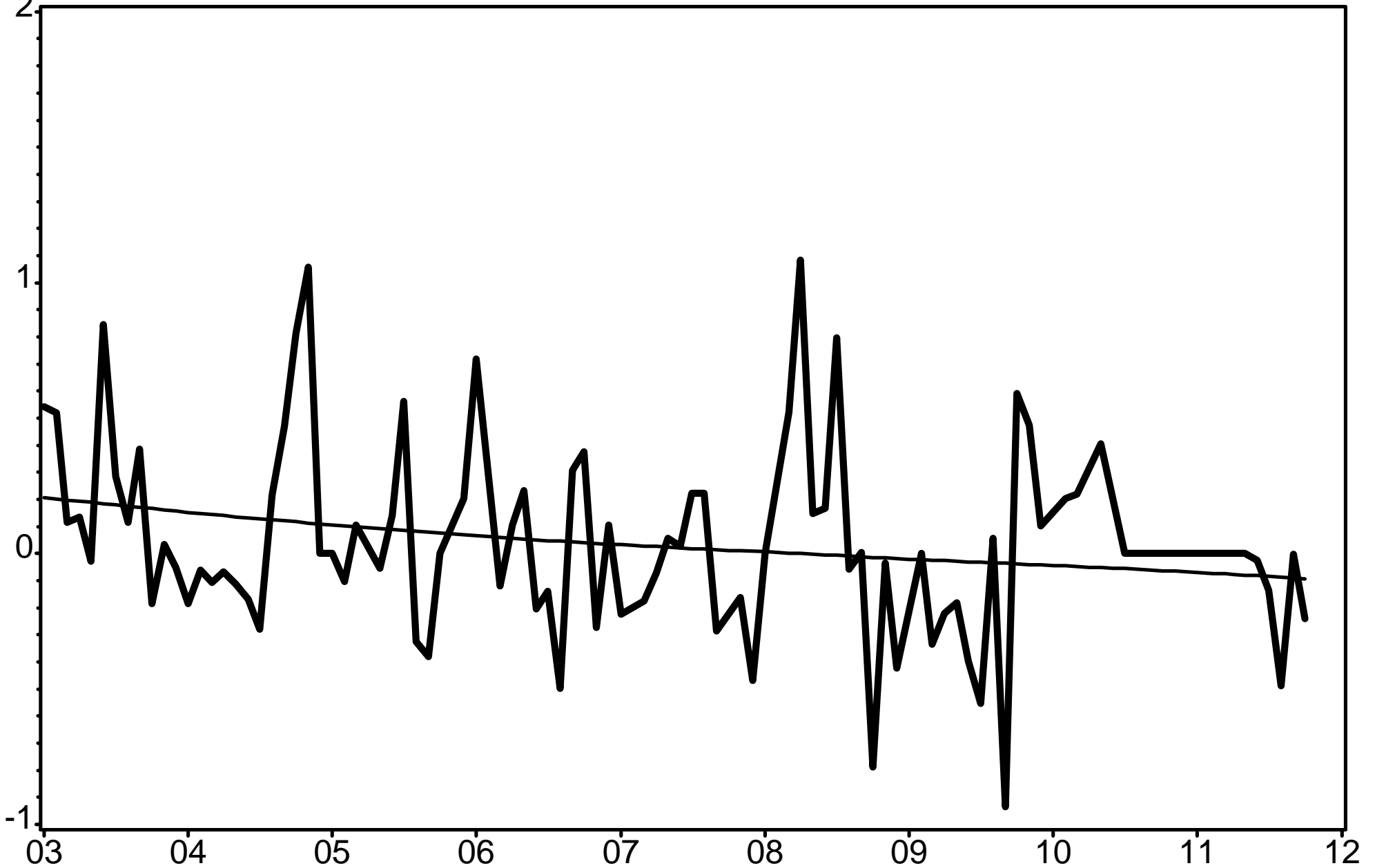
Bokeelia Trends Appendix - Display 62

Monthly Data Time Series

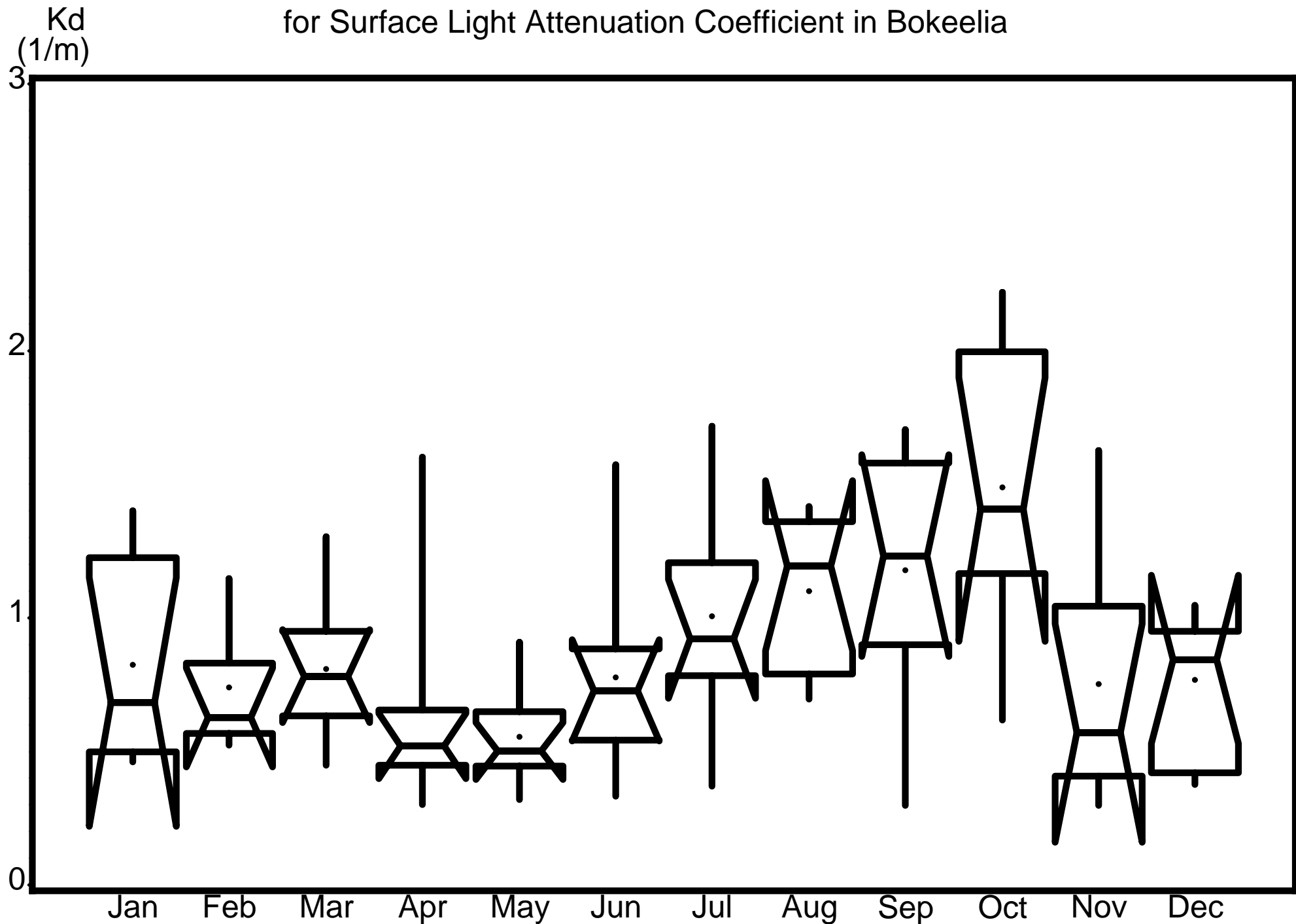
for Surface Light Attenuation Coefficient in Bokeelia

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Bokeelia Trends Appendix - Display 63
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Bokeelia



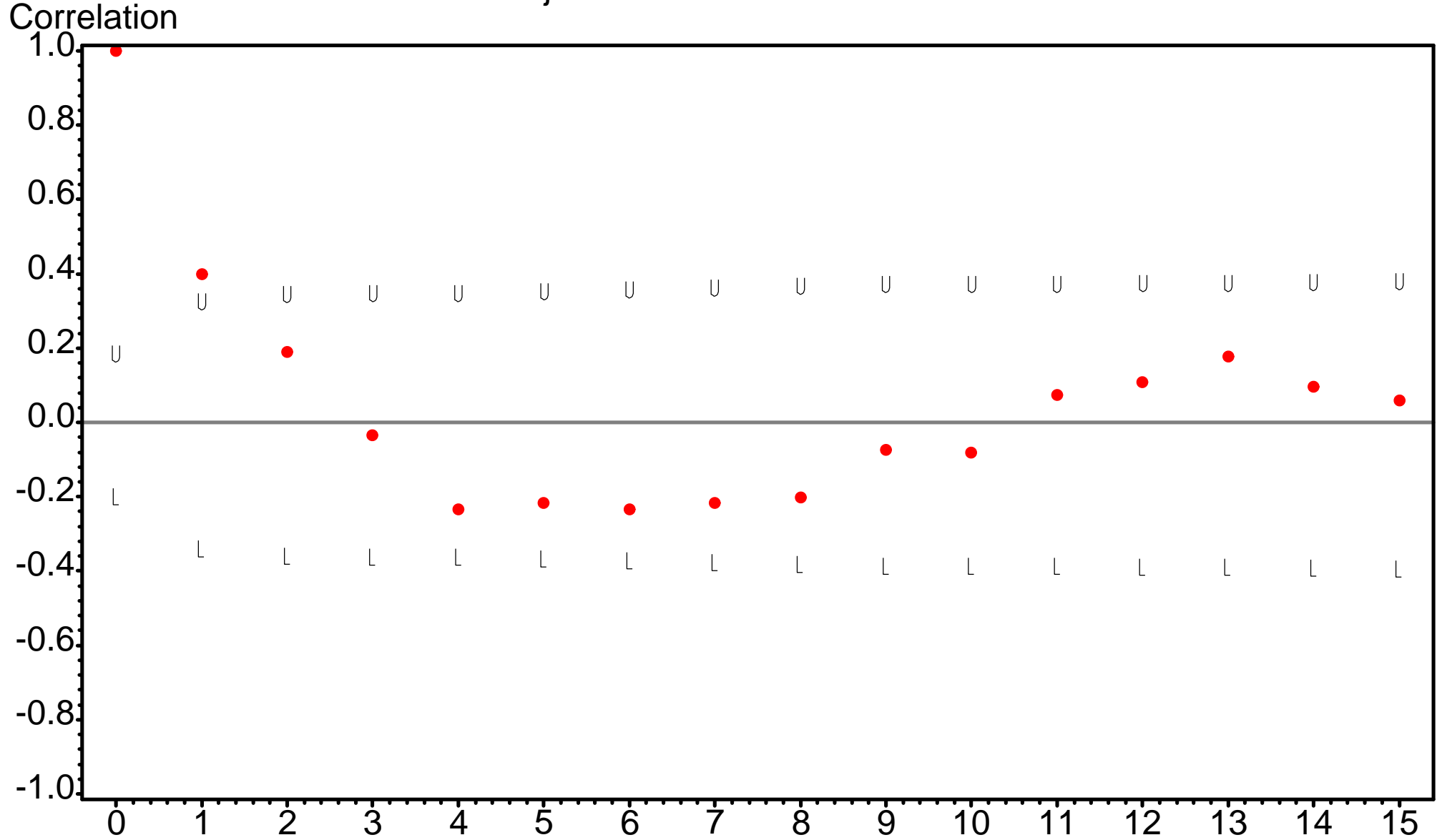
Bokeelia Trends Appendix - Display 64

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Bokeelia

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.399	0.167	0.333	-0.333
2	0.189	0.175	0.351	-0.351
3	-0.035	0.177	0.354	-0.354
4	-0.234	0.177	0.354	-0.354
5	-0.217	0.180	0.360	-0.360
6	-0.233	0.182	0.365	-0.365
7	-0.217	0.185	0.370	-0.370
8	-0.202	0.188	0.375	-0.375
9	-0.074	0.190	0.379	-0.379
10	-0.081	0.190	0.380	-0.380
11	0.073	0.190	0.380	-0.380
12	0.108	0.190	0.381	-0.381
13	0.178	0.191	0.382	-0.382
14	0.095	0.192	0.385	-0.385
15	0.060	0.193	0.386	-0.386

Bokeelia Trends Appendix - Display 65

Correlogram for Surface Light Attenuation Coefficient in Bokeelia Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 66
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Bokeelia
Unadjusted for Seasonal Medians

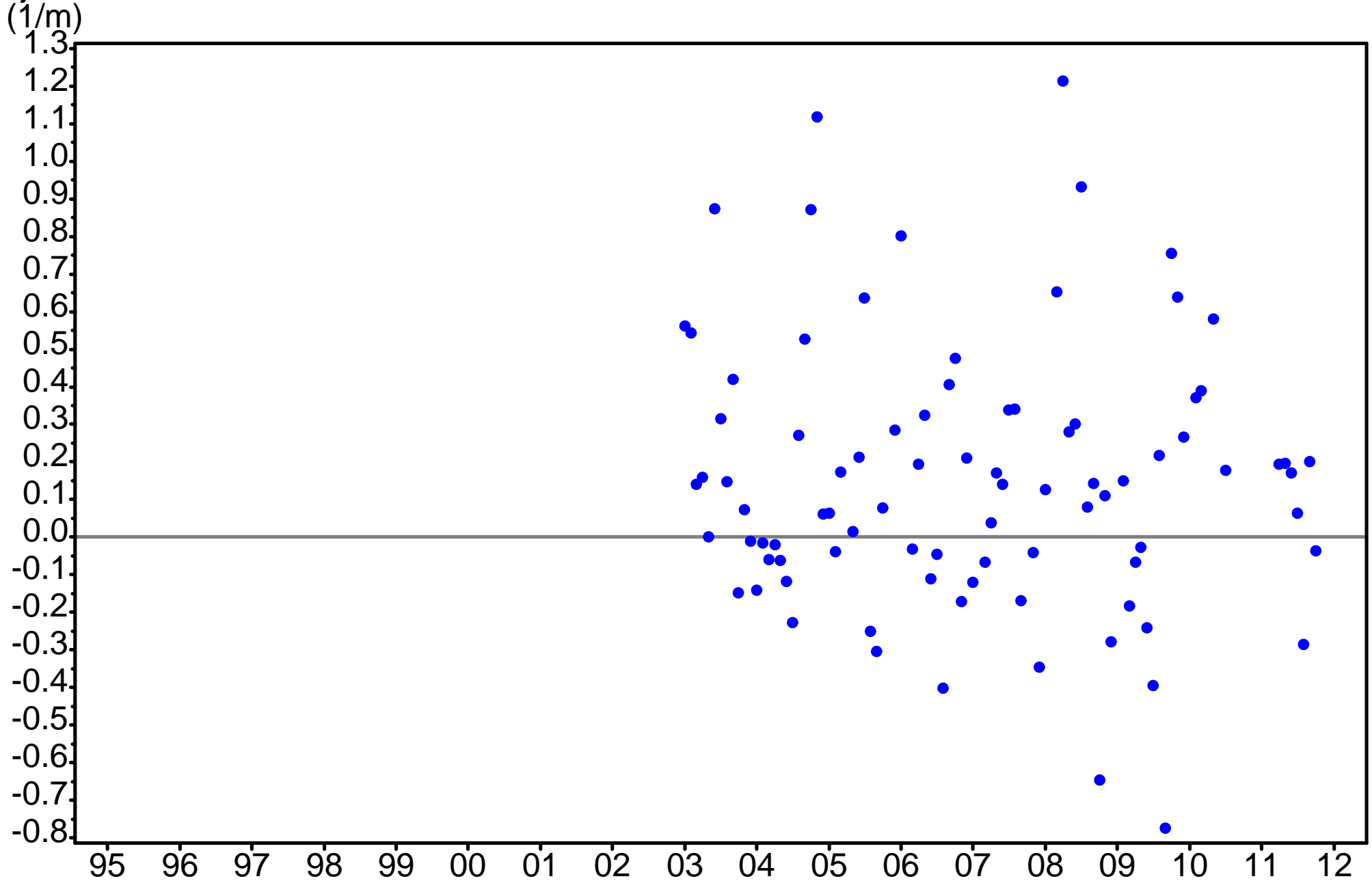
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.094	0.198	0.198	-0.025

Bokeelia Trends Appendix - Display 67
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.12544	0.17003	0.28761	-0.021

Bokeelia Trends Appendix - Display 68

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Bokeelia



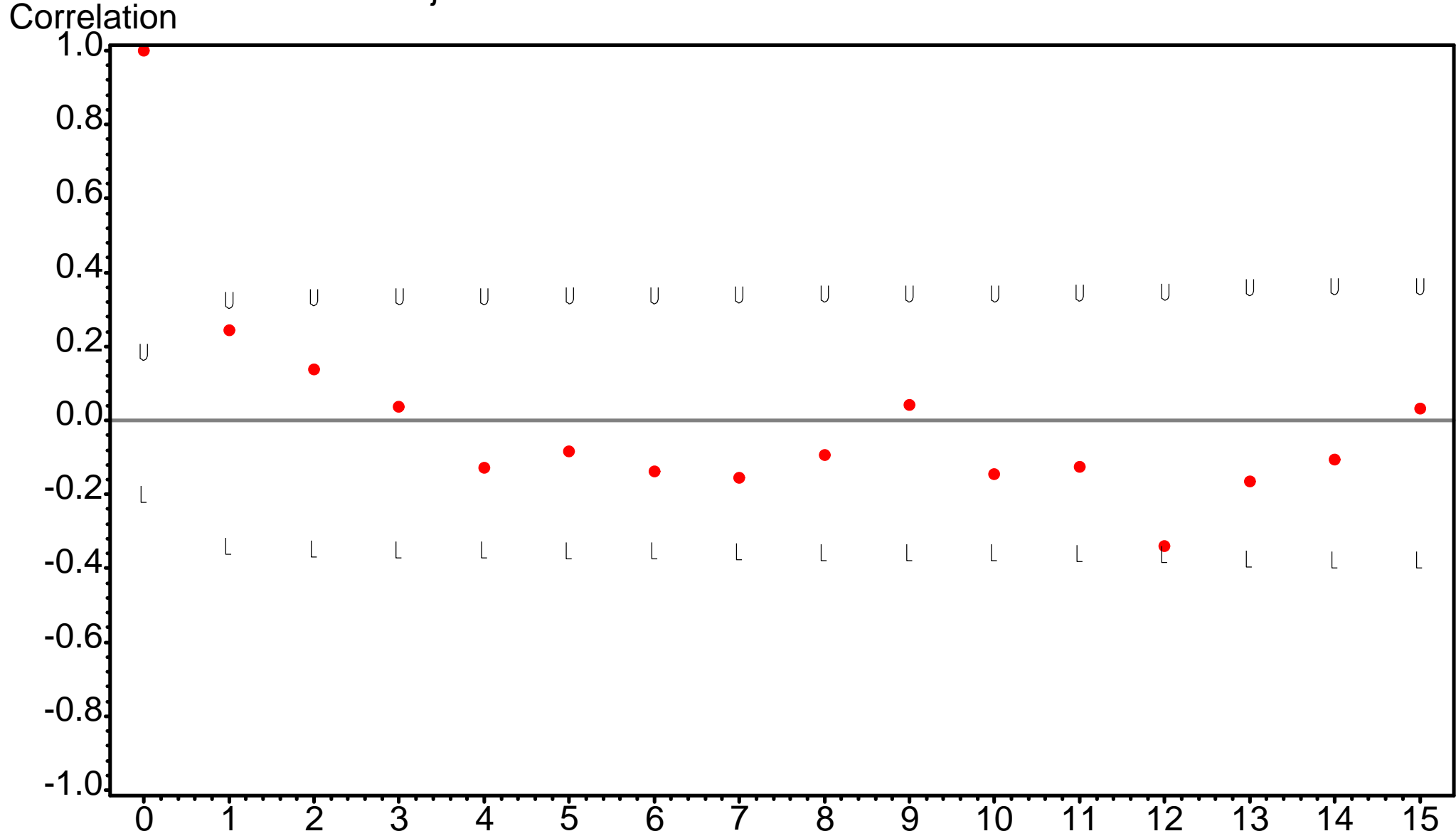
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 69
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.245	0.167	0.333	-0.333
2	0.138	0.170	0.340	-0.340
3	0.037	0.171	0.342	-0.342
4	-0.129	0.171	0.342	-0.342
5	-0.084	0.172	0.344	-0.344
6	-0.139	0.172	0.345	-0.345
7	-0.154	0.173	0.347	-0.347
8	-0.094	0.175	0.349	-0.349
9	0.043	0.175	0.350	-0.350
10	-0.146	0.175	0.350	-0.350
11	-0.126	0.176	0.353	-0.353
12	-0.340	0.177	0.354	-0.354
13	-0.164	0.183	0.366	-0.366
14	-0.105	0.184	0.369	-0.369
15	0.032	0.185	0.370	-0.370

Bokeelia Trends Appendix - Display 70

Correlogram for Surface Light Attenuation Coefficient in Bokeelia
Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

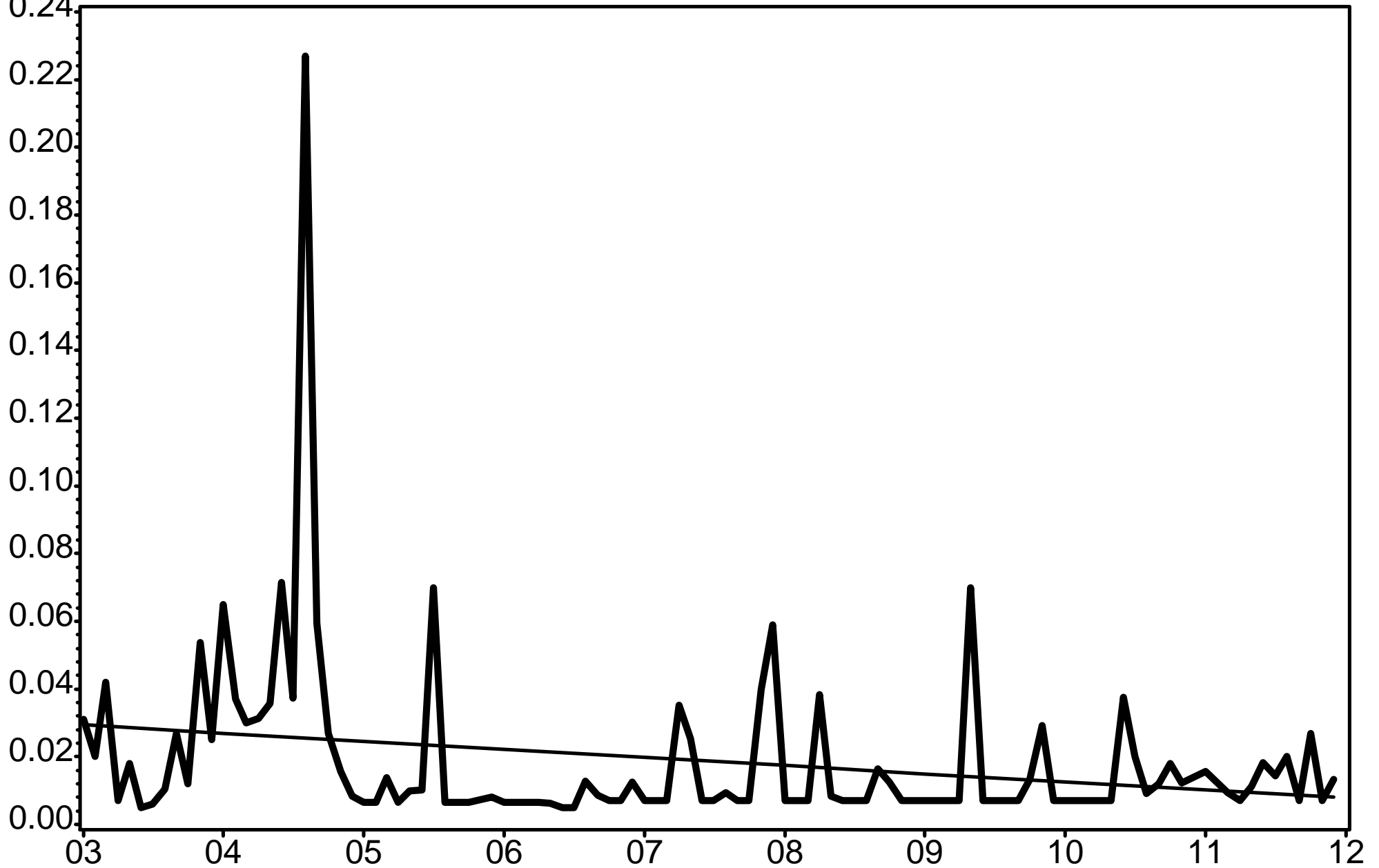
Bokeelia Trends Appendix - Display 71

Monthly Data Time Series

for Surface Ammonia as N Total in Bokeelia

Not Adjusted for Seasonal Medians

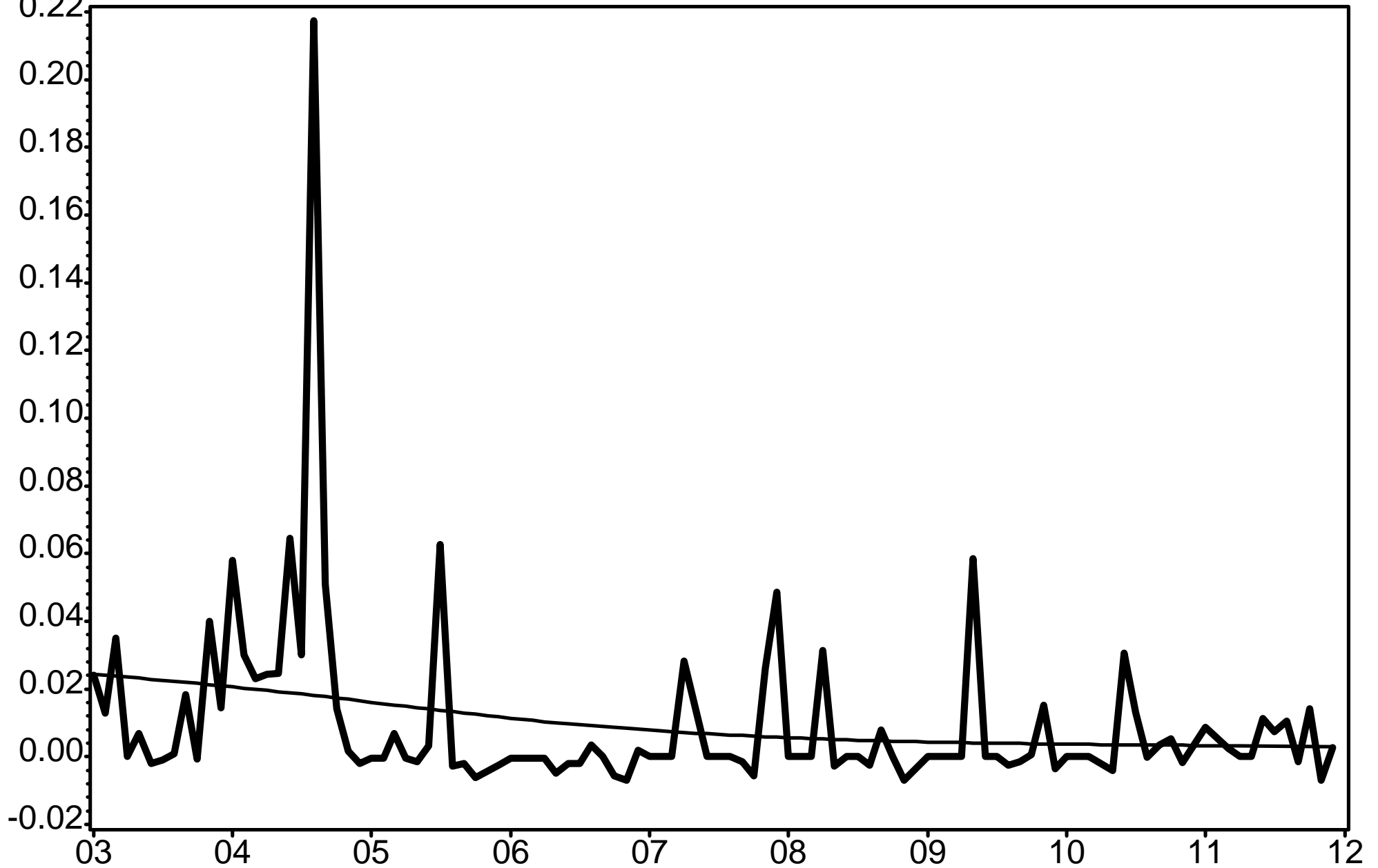
NH₃_mgl
(mg/l)



Bokeelia Trends Appendix - Display 72

Monthly Data Time Series
for Surface Ammonia as N Total in Bokeelia
Adjusted for Seasonal Medians

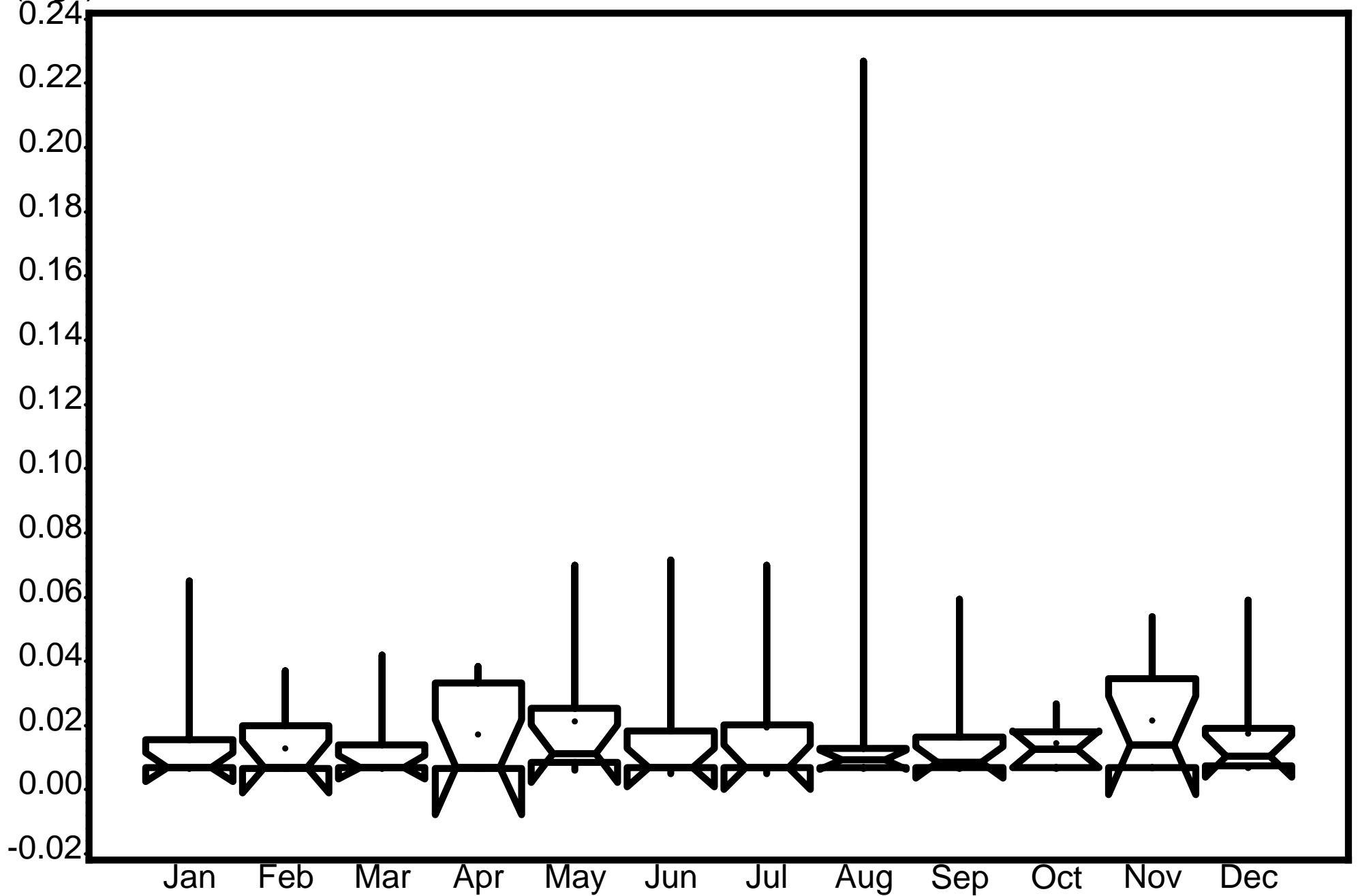
Adjusted
NH3_mgl
(mg/l)



Bokeelia Trends Appendix - Display 73

Seasonal Univariate Statistics
for Surface Ammonia as N Total in Bokeelia

NH3_mgl
(mg/l)



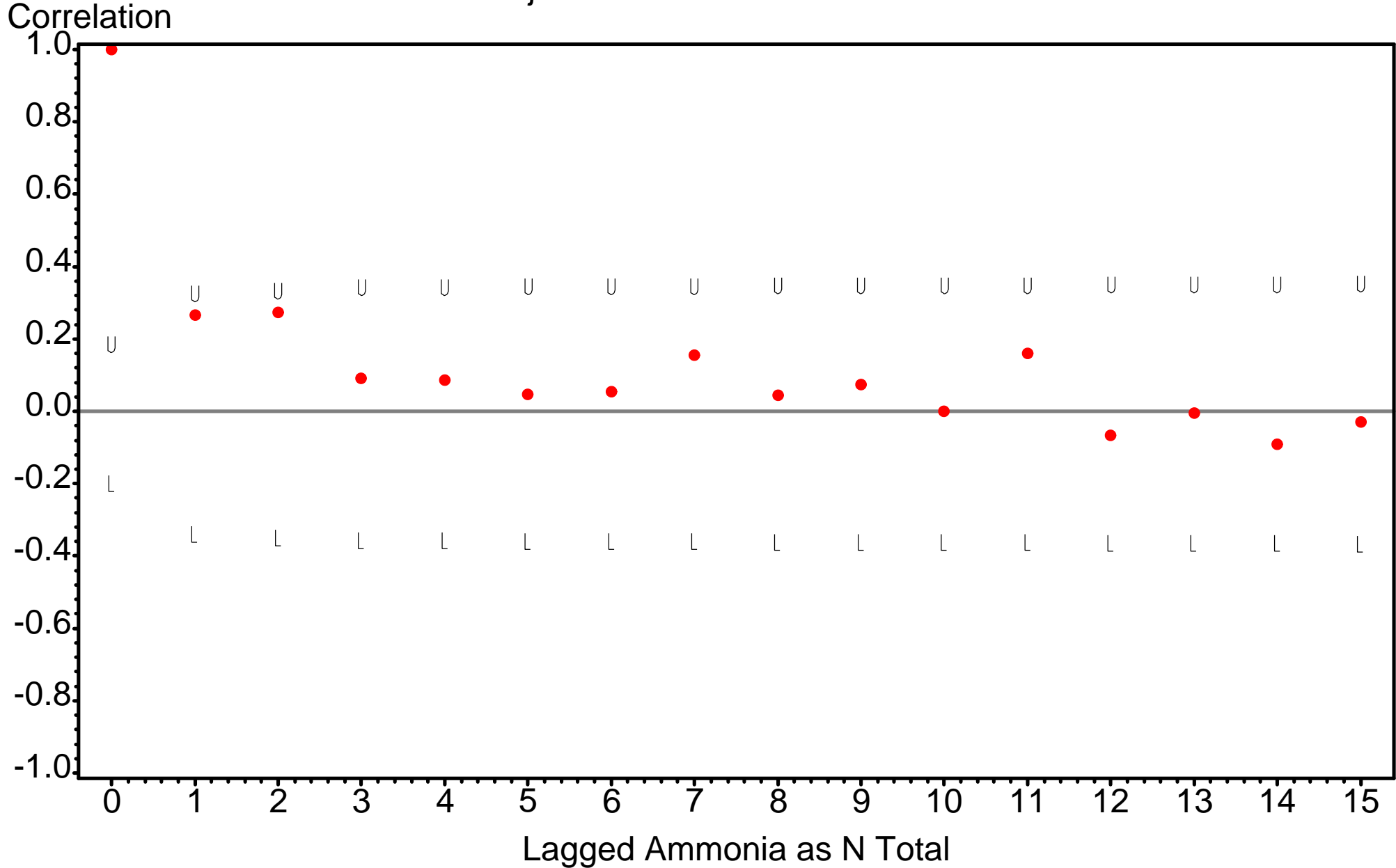
Bokeelia Trends Appendix - Display 74
Autocorrelation Statistics for Surface Ammonia as N Total in Bokeelia

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.267	0.167	0.333	-0.333
2	0.274	0.171	0.341	-0.341
3	0.092	0.175	0.349	-0.349
4	0.087	0.175	0.350	-0.350
5	0.047	0.175	0.351	-0.351
6	0.053	0.176	0.351	-0.351
7	0.155	0.176	0.351	-0.351
8	0.044	0.177	0.354	-0.354
9	0.074	0.177	0.354	-0.354
10	0.000	0.177	0.355	-0.355
11	0.160	0.177	0.355	-0.355
12	-0.067	0.179	0.357	-0.357
13	-0.006	0.179	0.358	-0.358
14	-0.092	0.179	0.358	-0.358
15	-0.029	0.179	0.359	-0.359

Bokeelia Trends Appendix - Display 75

Correlogram for Surface Ammonia as N Total in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 76
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.102	0.114	0.114	0

Bokeelia Trends Appendix - Display 77
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Bokeelia
Adjusted for Seasonal Medians

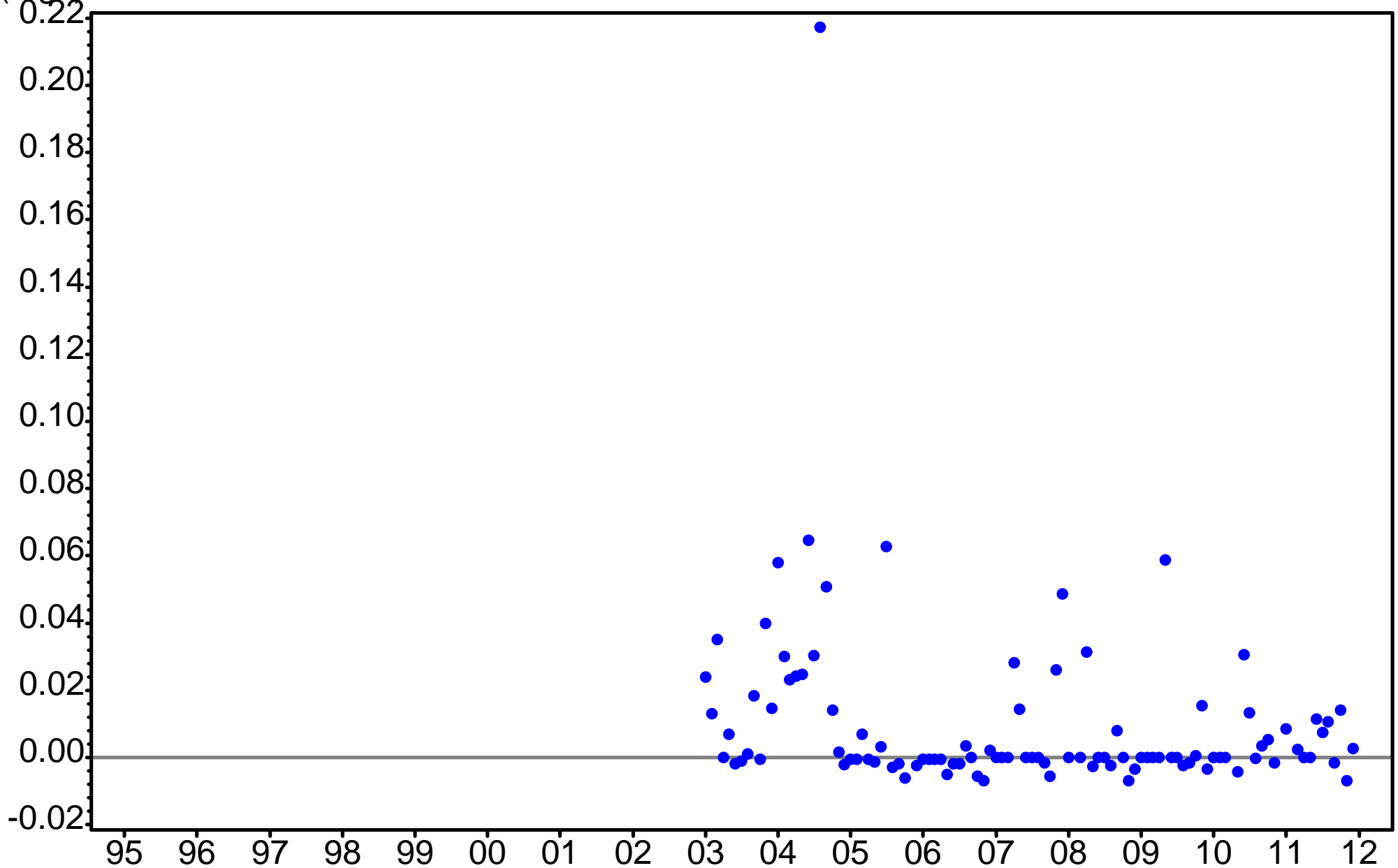
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.040713	0.62080	0.79893	0

Bokeelia Trends Appendix - Display 78

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended

Adjusted
(mg/l)

Bokeelia



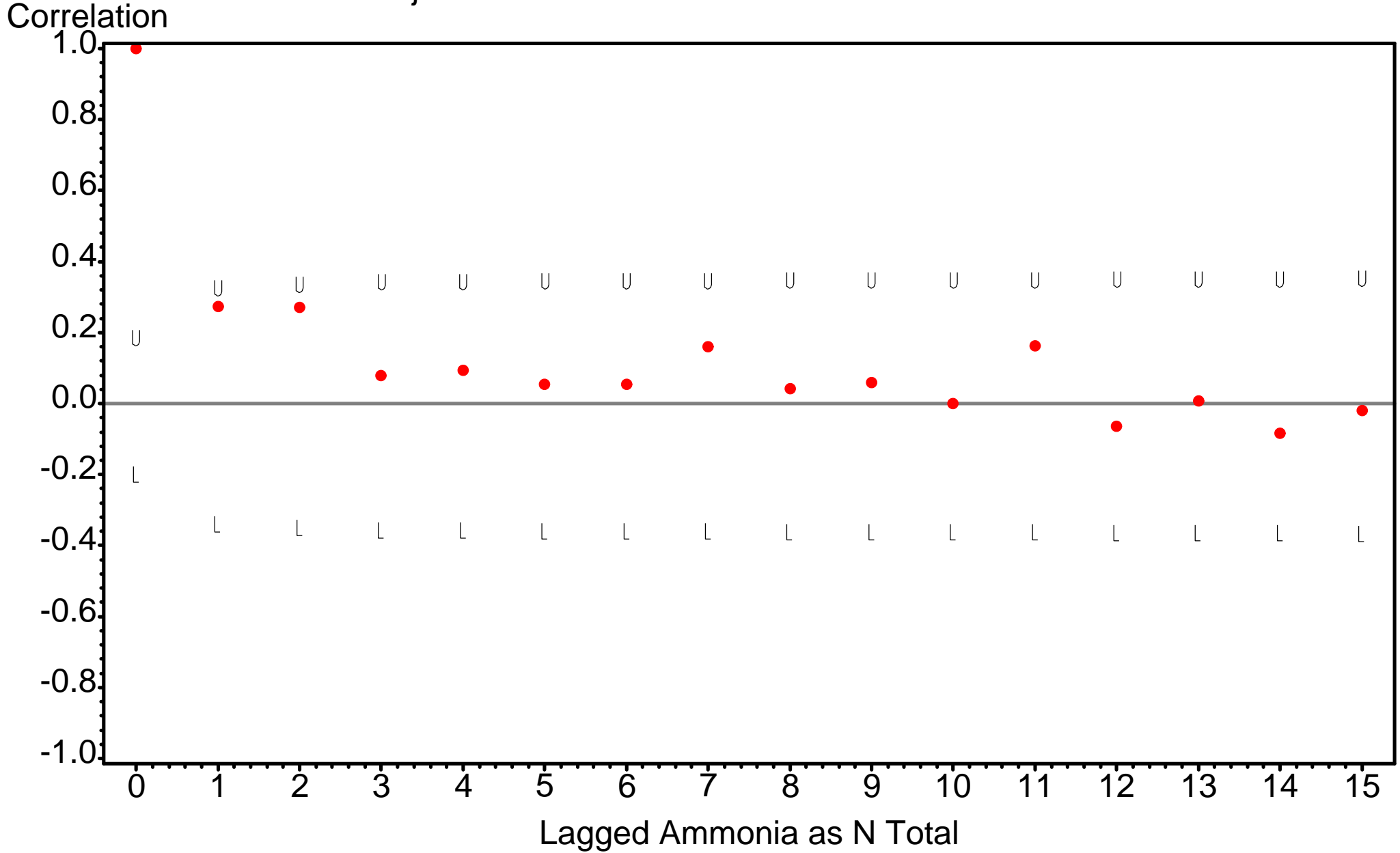
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 79
Autocorrelation Statistics for Surface Ammonia as N Total in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.274	0.167	0.333	-0.333
2	0.272	0.171	0.342	-0.342
3	0.078	0.175	0.350	-0.350
4	0.093	0.175	0.350	-0.350
5	0.054	0.176	0.351	-0.351
6	0.053	0.176	0.351	-0.351
7	0.161	0.176	0.352	-0.352
8	0.041	0.177	0.354	-0.354
9	0.058	0.177	0.355	-0.355
10	0.000	0.177	0.355	-0.355
11	0.163	0.177	0.355	-0.355
12	-0.065	0.179	0.358	-0.358
13	0.007	0.179	0.358	-0.358
14	-0.083	0.179	0.358	-0.358
15	-0.019	0.179	0.359	-0.359

Bokeelia Trends Appendix - Display 80

Correlogram for Surface Ammonia as N Total in Bokeelia Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

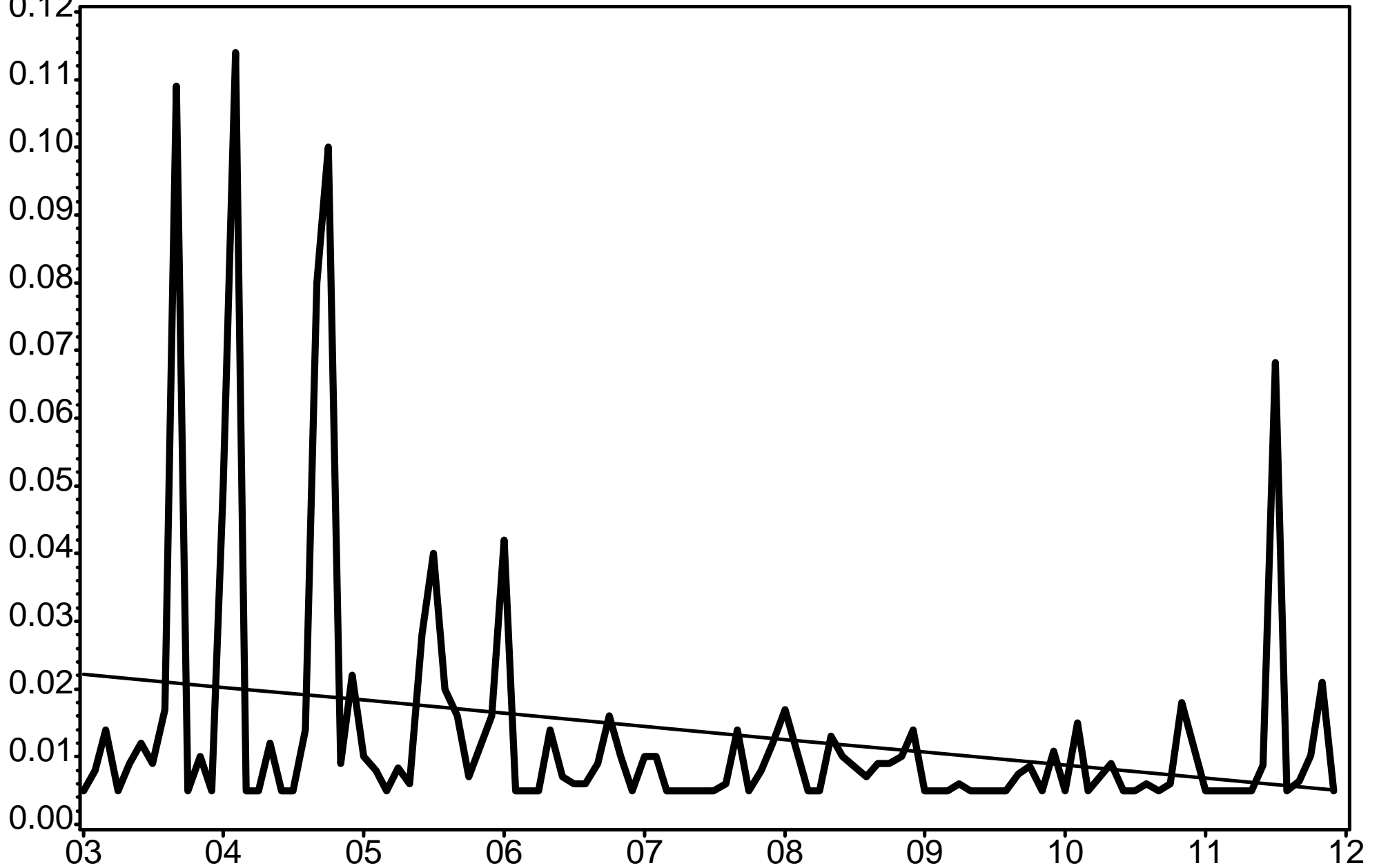
Bokeelia Trends Appendix - Display 81

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

Not Adjusted for Seasonal Medians

NO23_mgl
(mg/l)



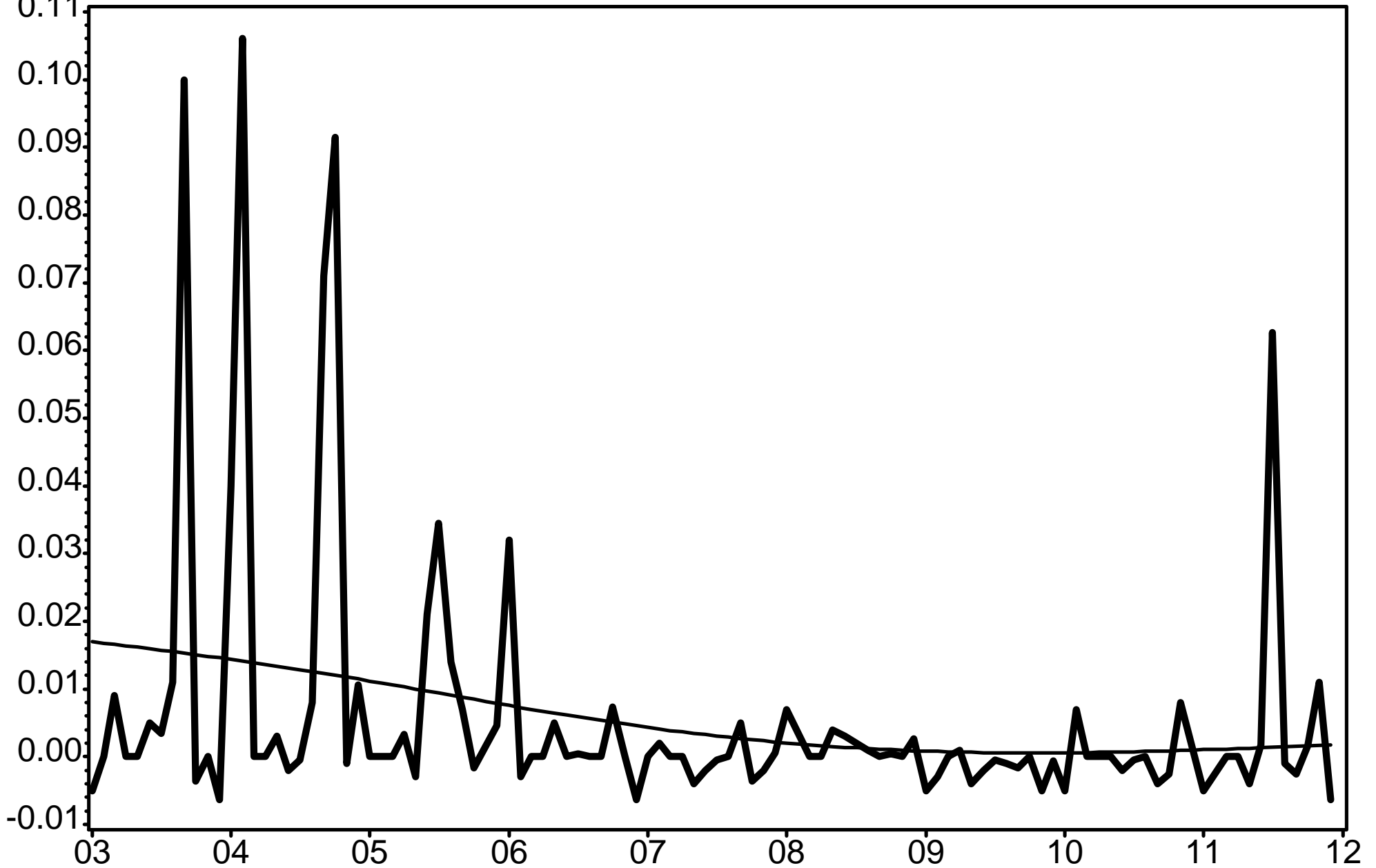
Bokeelia Trends Appendix - Display 82

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

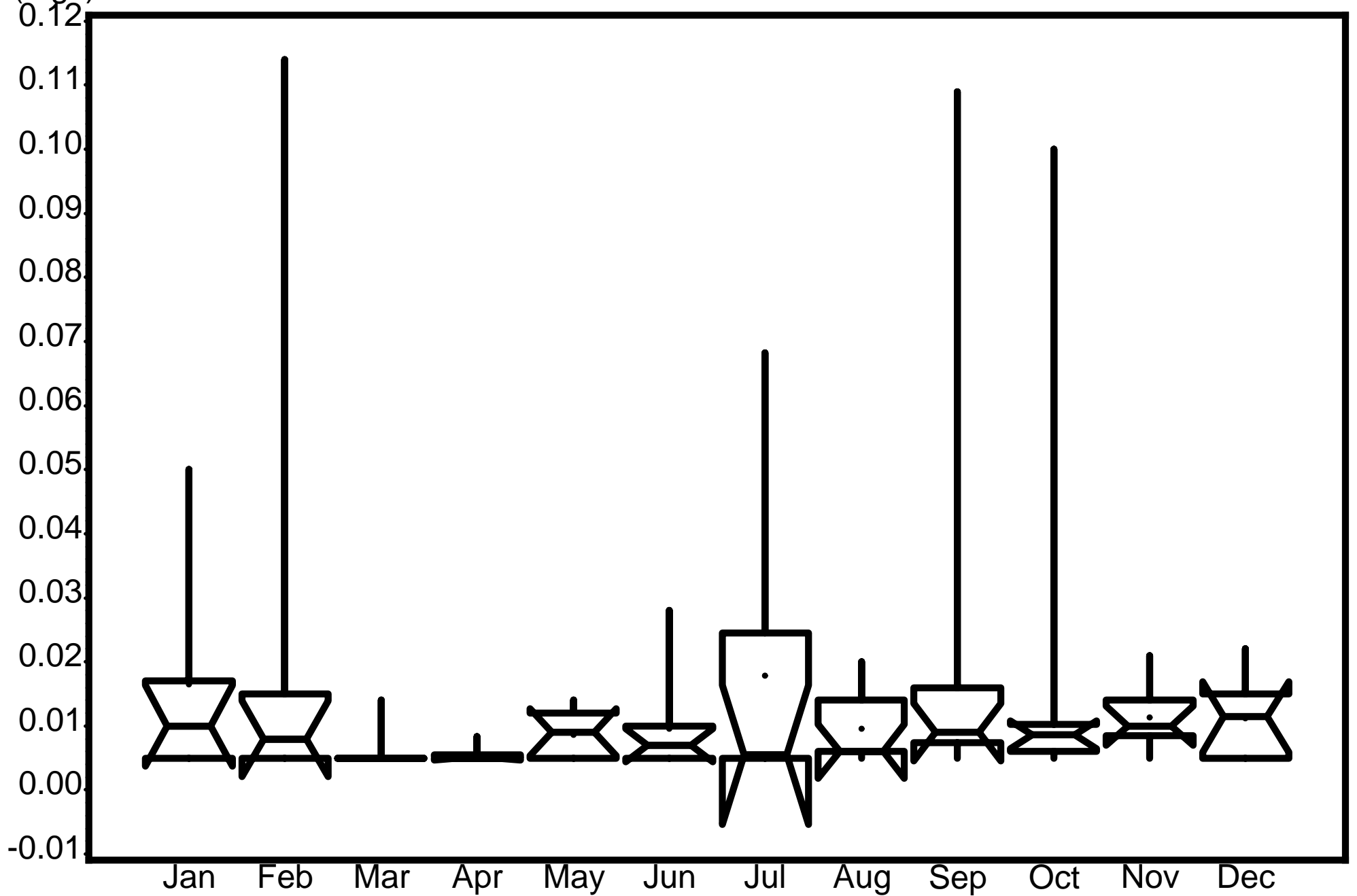


Bokeelia Trends Appendix - Display 83

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

NO23_mgl
(mg/l)



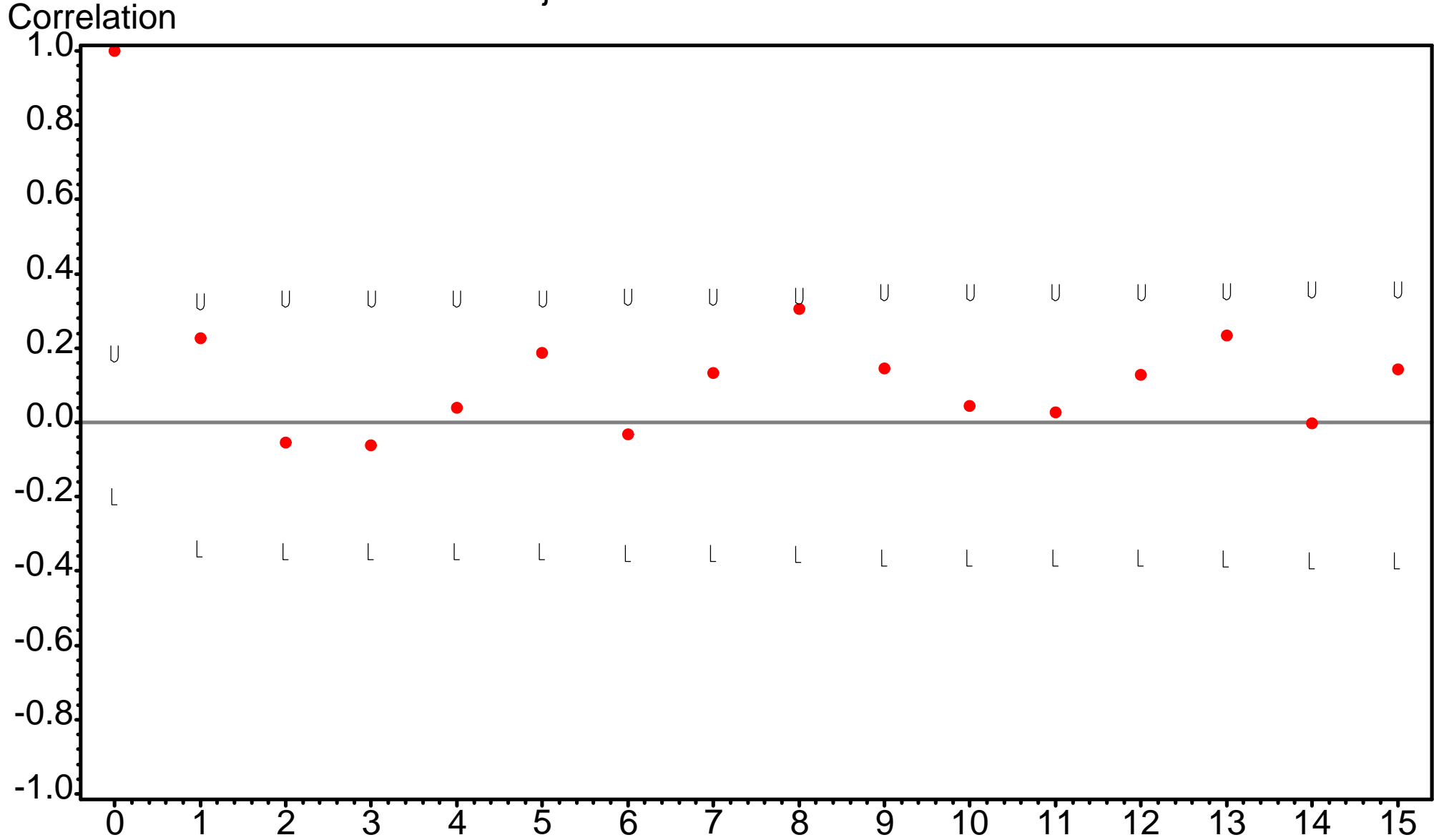
Bokeelia Trends Appendix - Display 84

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.227	0.167	0.333	-0.333
2	-0.053	0.169	0.339	-0.339
3	-0.062	0.170	0.339	-0.339
4	0.039	0.170	0.340	-0.340
5	0.188	0.170	0.340	-0.340
6	-0.031	0.172	0.344	-0.344
7	0.134	0.172	0.344	-0.344
8	0.305	0.173	0.346	-0.346
9	0.146	0.178	0.356	-0.356
10	0.044	0.179	0.358	-0.358
11	0.026	0.179	0.358	-0.358
12	0.127	0.179	0.358	-0.358
13	0.234	0.180	0.360	-0.360
14	-0.002	0.183	0.365	-0.365
15	0.143	0.183	0.365	-0.365

Bokeelia Trends Appendix - Display 85

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 86
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Unadjusted for Seasonal Medians

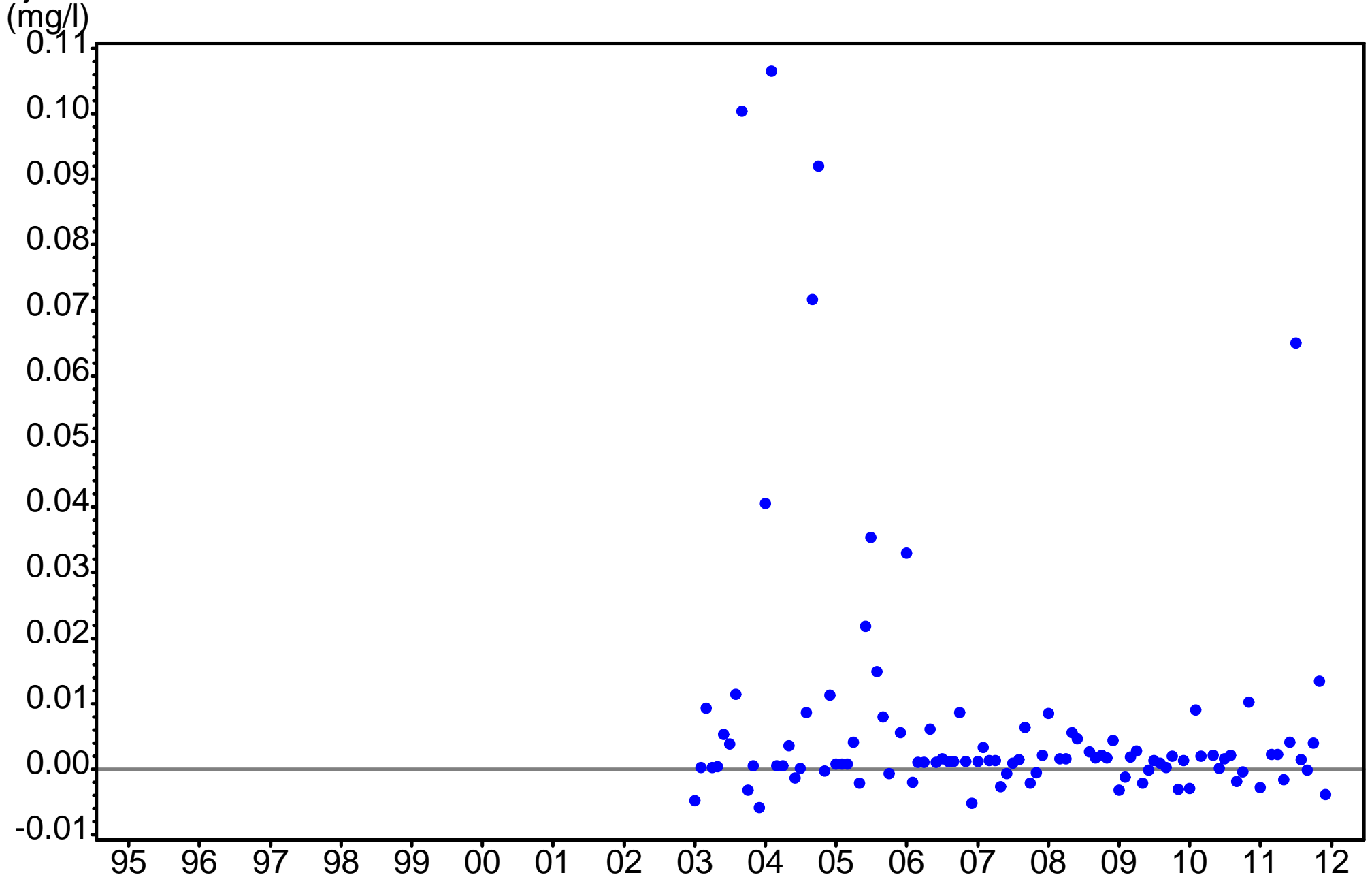
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.166	0.011	0.011	0

Bokeelia Trends Appendix - Display 87
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23896	.00136149	0.035576	-.00025

Bokeelia Trends Appendix - Display 88

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted Bokeelia



Zero Reference Line Shown

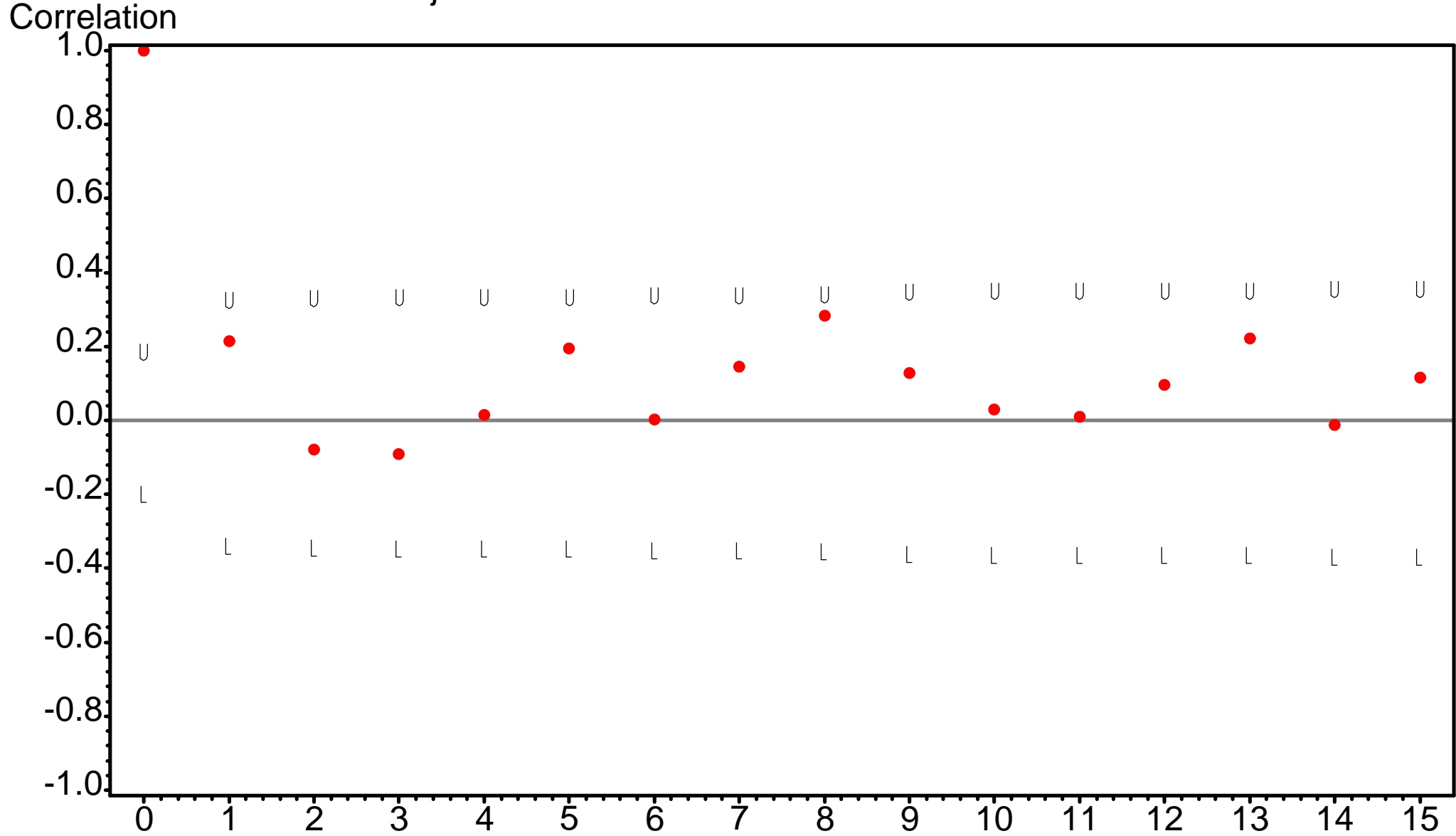
Bokeelia Trends Appendix - Display 89

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.214	0.167	0.333	-0.333
2	-0.078	0.169	0.338	-0.338
3	-0.090	0.170	0.339	-0.339
4	0.015	0.170	0.340	-0.340
5	0.195	0.170	0.340	-0.340
6	0.002	0.172	0.344	-0.344
7	0.145	0.172	0.344	-0.344
8	0.284	0.173	0.346	-0.346
9	0.127	0.177	0.355	-0.355
10	0.029	0.178	0.357	-0.357
11	0.010	0.178	0.357	-0.357
12	0.095	0.178	0.357	-0.357
13	0.221	0.179	0.358	-0.358
14	-0.013	0.181	0.363	-0.363
15	0.115	0.181	0.363	-0.363

Bokeelia Trends Appendix - Display 90

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia Adjusted for Seasonal Median and Detrended

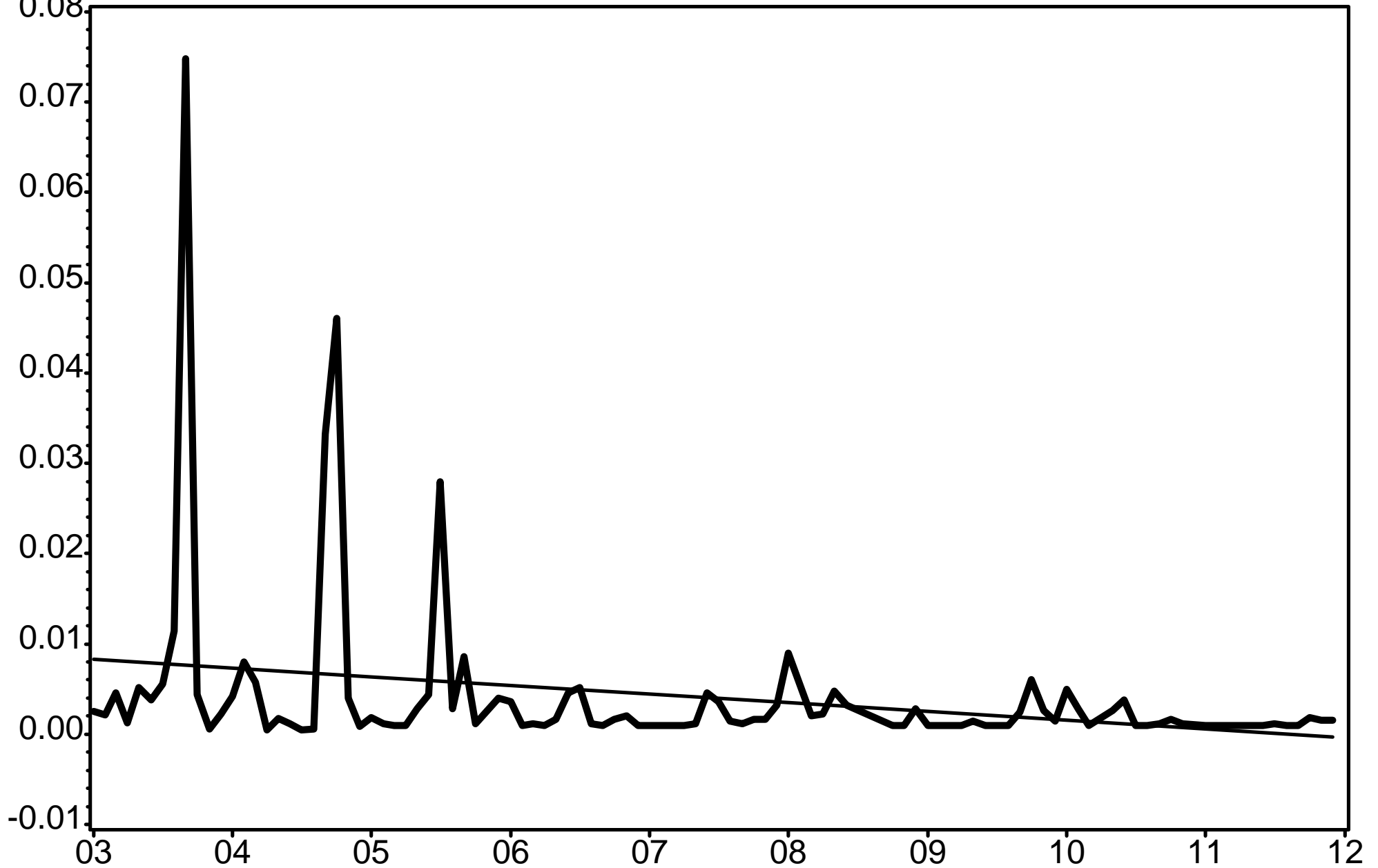


Lagged Nitrate+Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 91

Monthly Data Time Series
for Surface Nitrite (TOTAL AS N) in Bokeelia
Not Adjusted for Seasonal Medians

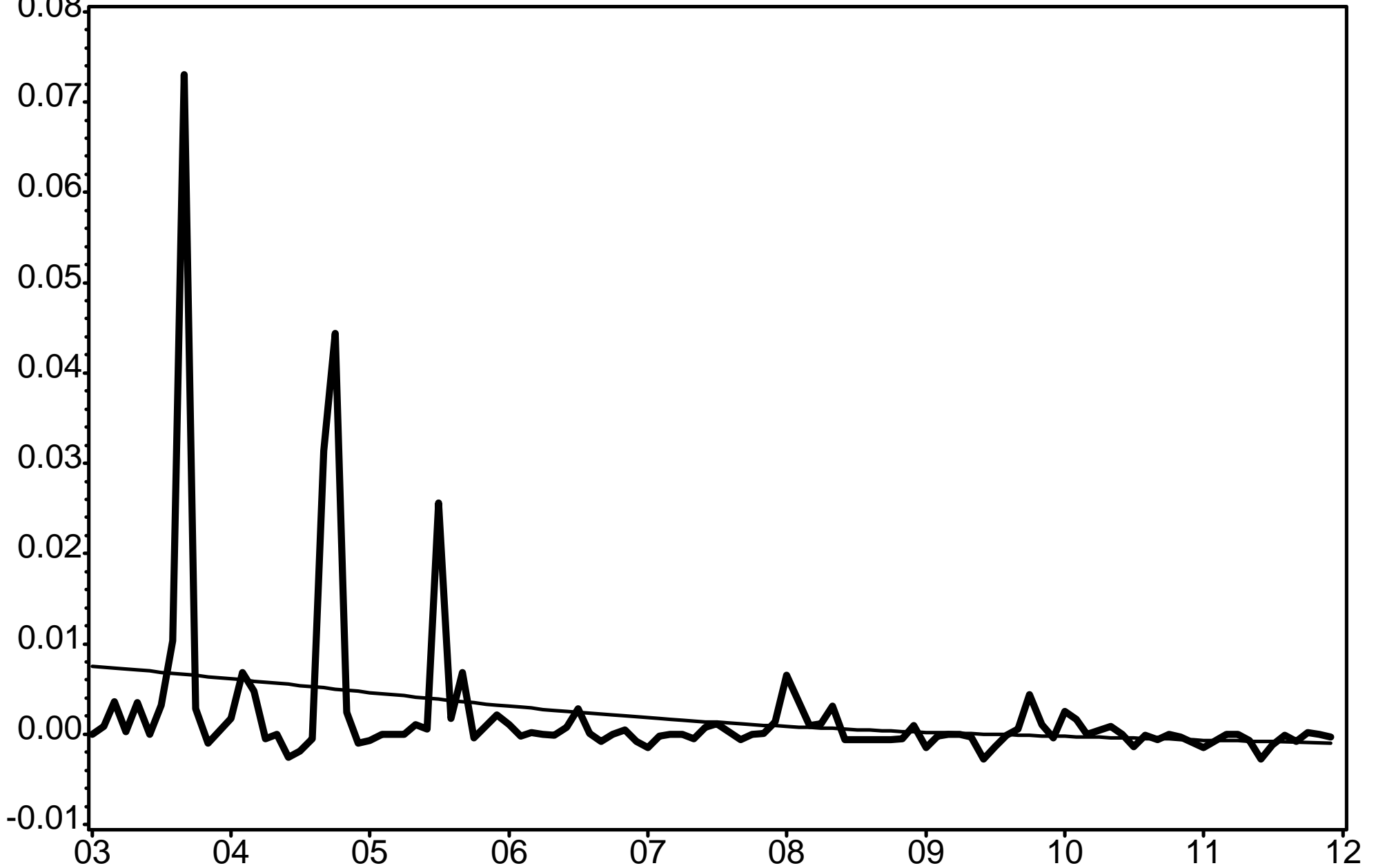
NO2_mgl
(mg/l)



Bokeelia Trends Appendix - Display 92

Monthly Data Time Series
for Surface Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Medians

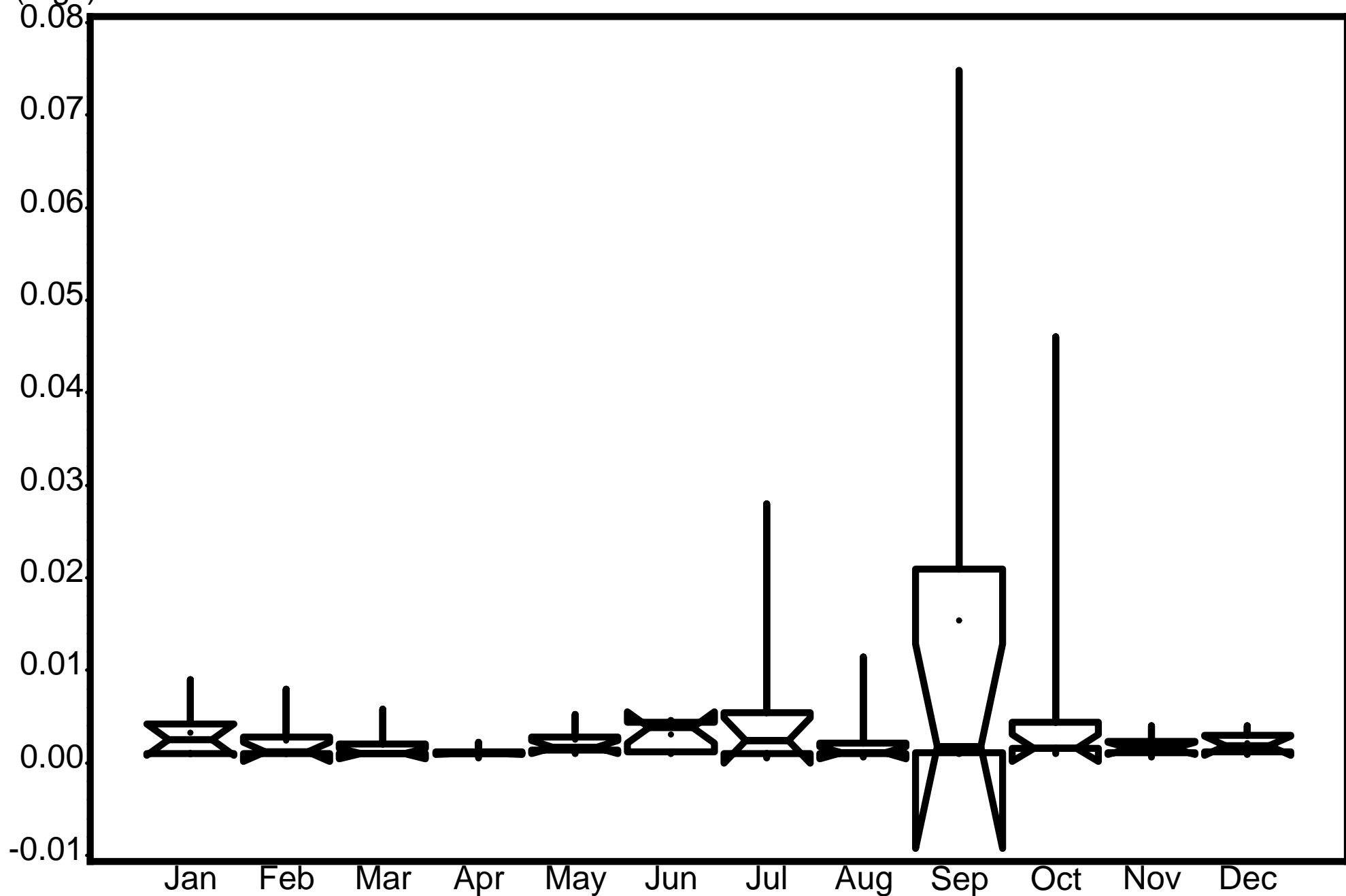
Adjusted
NO2_mgl
(mg/l)



Bokeelia Trends Appendix - Display 93

Seasonal Univariate Statistics
for Surface Nitrite (TOTAL AS N) in Bokeelia

NO2_mgl
(mg/l)



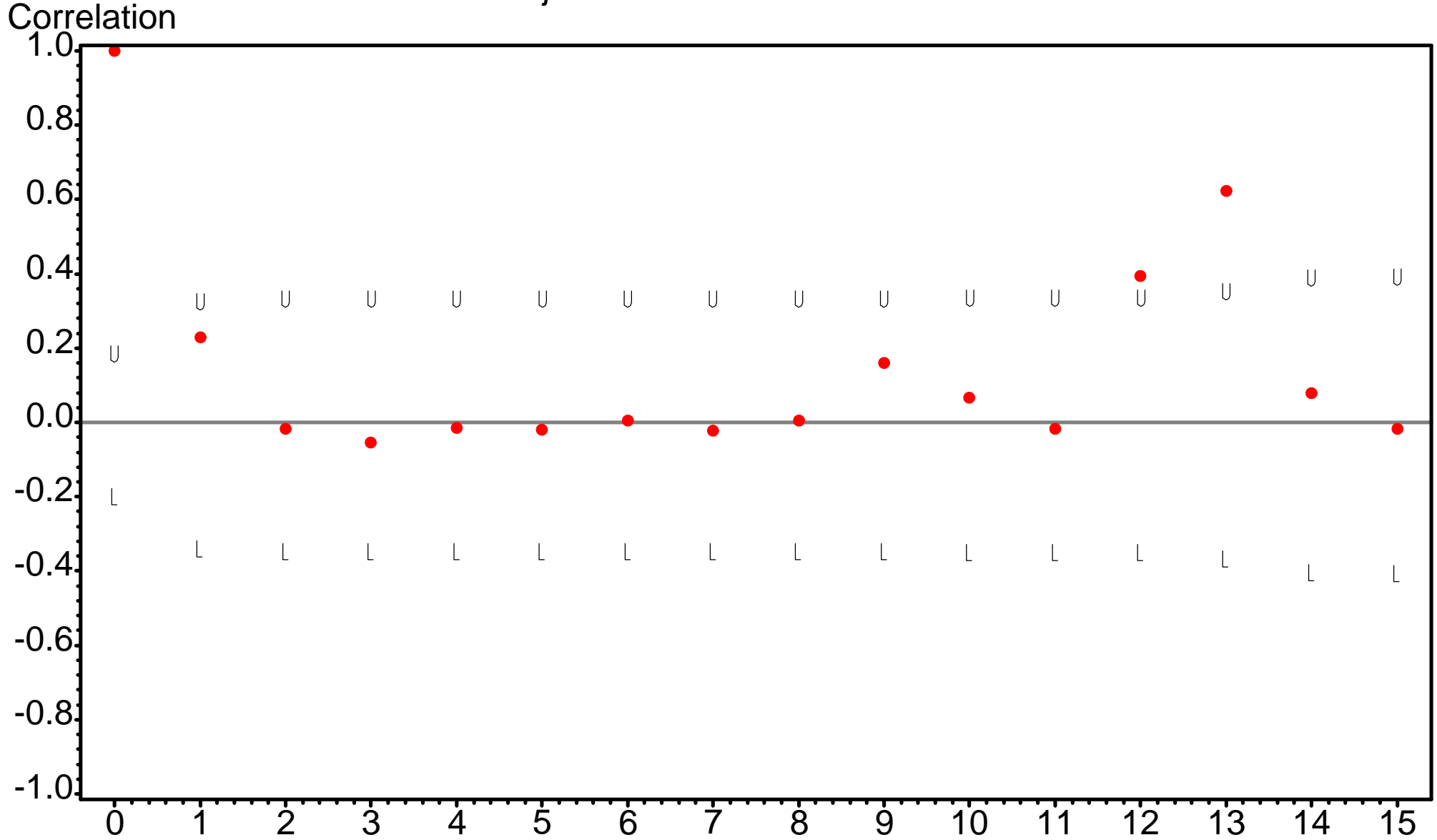
Bokeelia Trends Appendix - Display 94
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Bokeelia

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.229	0.167	0.333	-0.333
2	-0.017	0.170	0.339	-0.339
3	-0.054	0.170	0.339	-0.339
4	-0.015	0.170	0.339	-0.339
5	-0.020	0.170	0.339	-0.339
6	0.006	0.170	0.340	-0.340
7	-0.022	0.170	0.340	-0.340
8	0.006	0.170	0.340	-0.340
9	0.159	0.170	0.340	-0.340
10	0.066	0.171	0.342	-0.342
11	-0.017	0.171	0.343	-0.343
12	0.394	0.171	0.343	-0.343
13	0.623	0.180	0.359	-0.359
14	0.080	0.199	0.397	-0.397
15	-0.018	0.199	0.398	-0.398

Bokeelia Trends Appendix - Display 95

Correlogram for Surface Nitrite (TOTAL AS N) in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 96
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.214	.001	.001	0

Bokeelia Trends Appendix - Display 97
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Medians

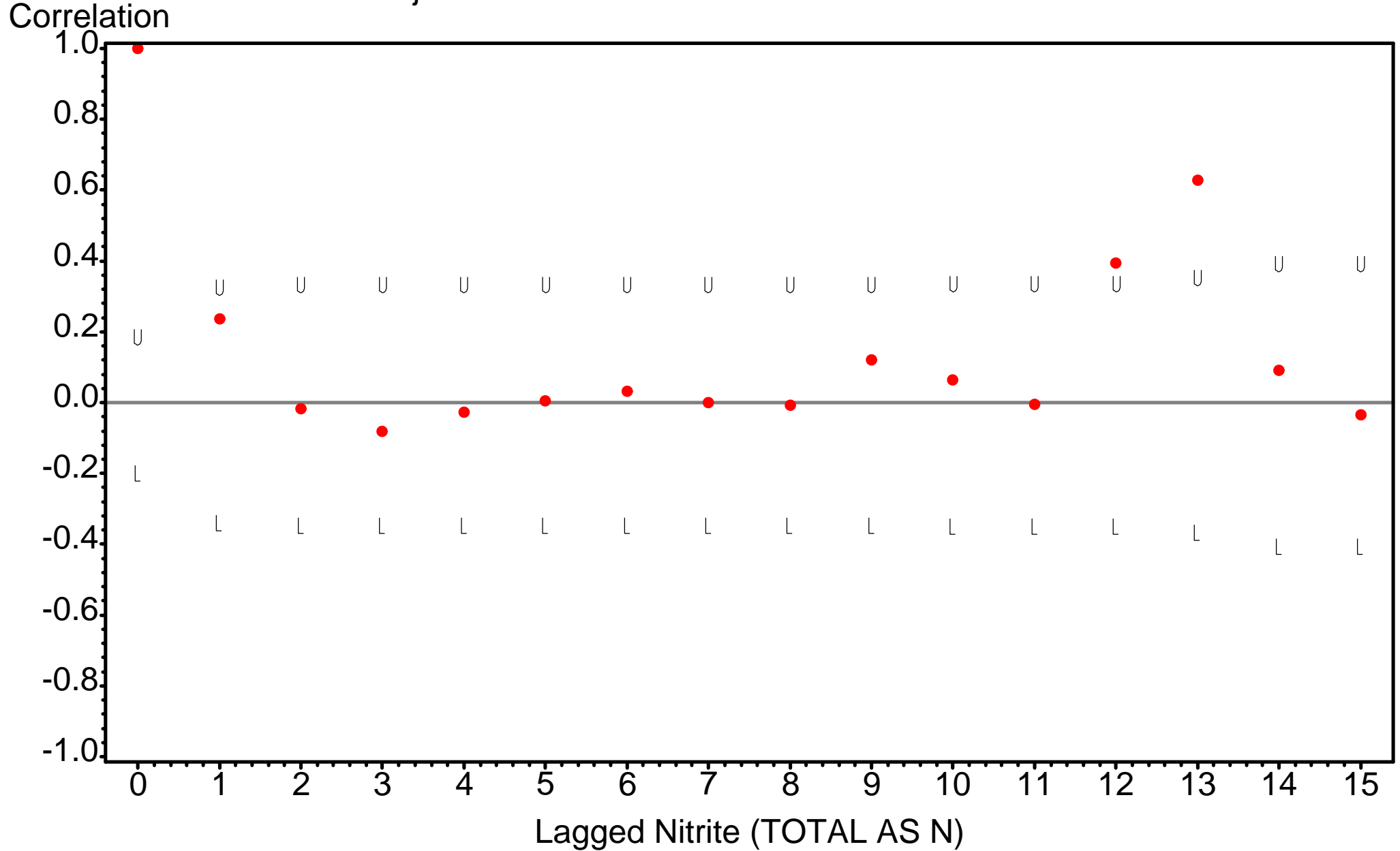
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.20596	.00621541	0.030752	0

Bokeelia Trends Appendix - Display 99
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.237	0.167	0.333	-0.333
2	-0.017	0.170	0.339	-0.339
3	-0.080	0.170	0.340	-0.340
4	-0.028	0.170	0.340	-0.340
5	0.004	0.170	0.340	-0.340
6	0.031	0.170	0.340	-0.340
7	0.000	0.170	0.340	-0.340
8	-0.007	0.170	0.340	-0.340
9	0.120	0.170	0.340	-0.340
10	0.064	0.171	0.342	-0.342
11	-0.005	0.171	0.342	-0.342
12	0.394	0.171	0.342	-0.342
13	0.629	0.179	0.359	-0.359
14	0.091	0.199	0.398	-0.398
15	-0.034	0.199	0.398	-0.398

Bokeelia Trends Appendix - Display 100

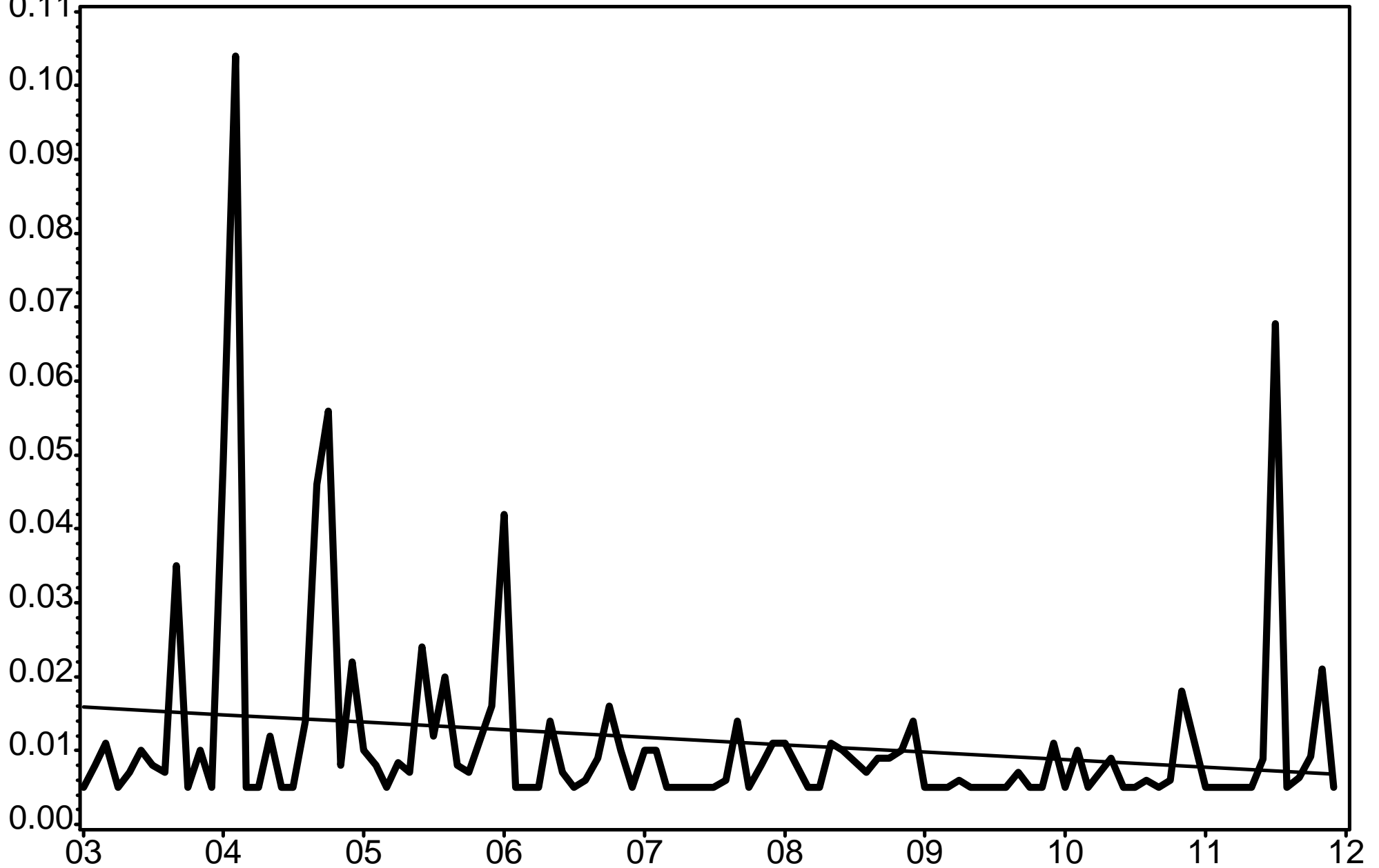
Correlogram for Surface Nitrite (TOTAL AS N) in Bokeelia Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 101
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)



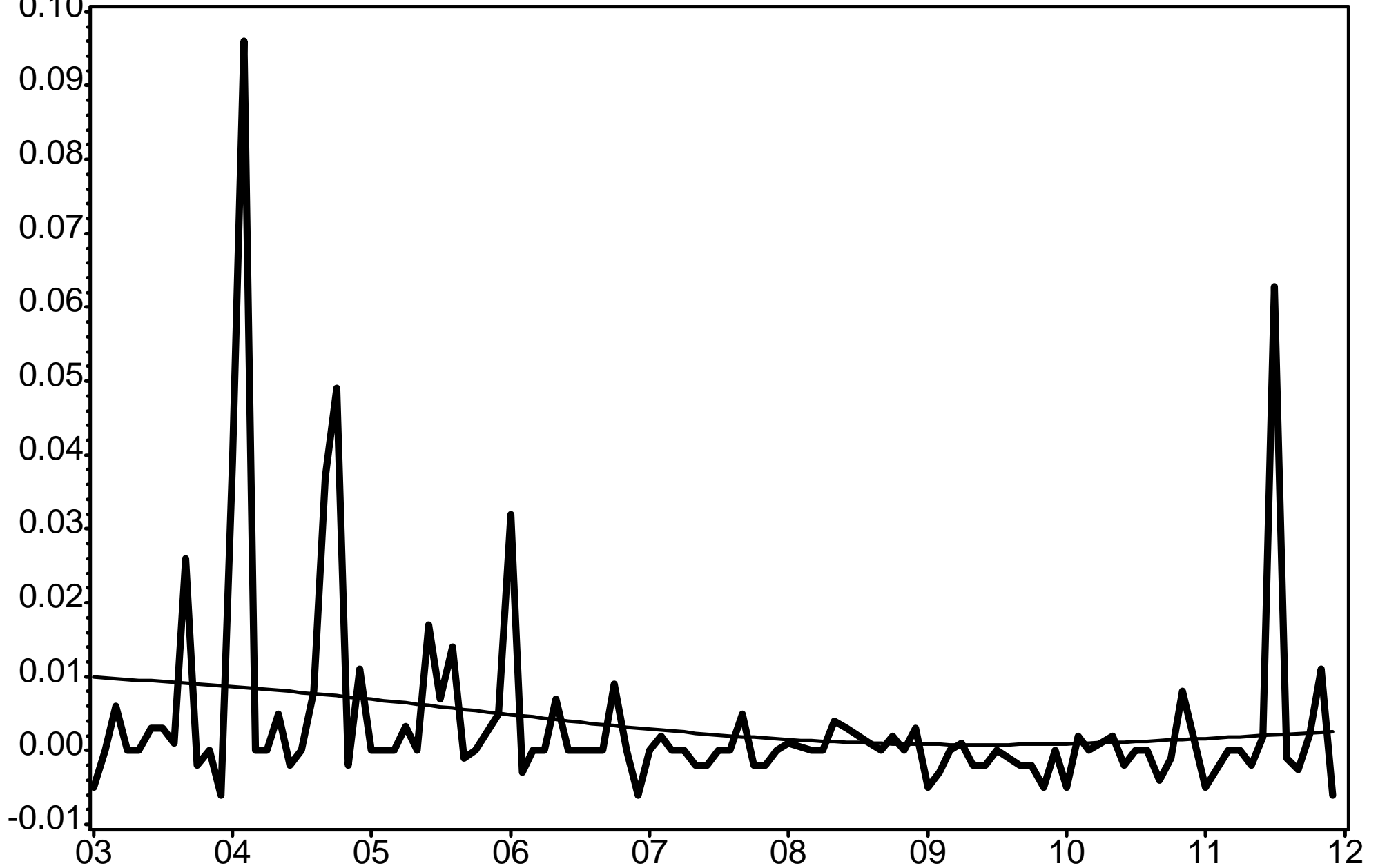
Bokeelia Trends Appendix - Display 102

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

Adjusted for Seasonal Medians

Adjusted
NO3_mgl
(mg/l)

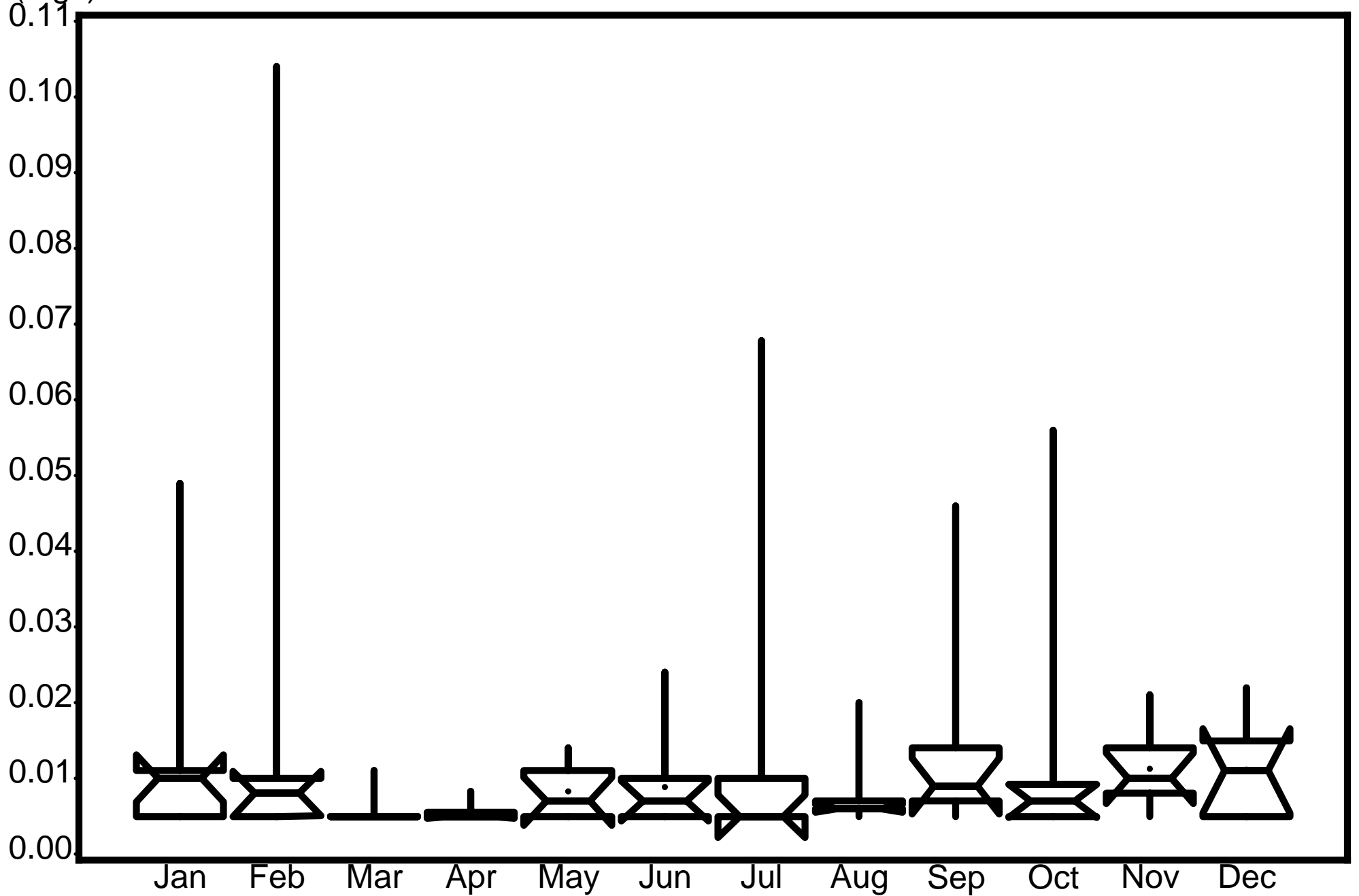


Bokeelia Trends Appendix - Display 103

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

NO3_mgl
(mg/l)



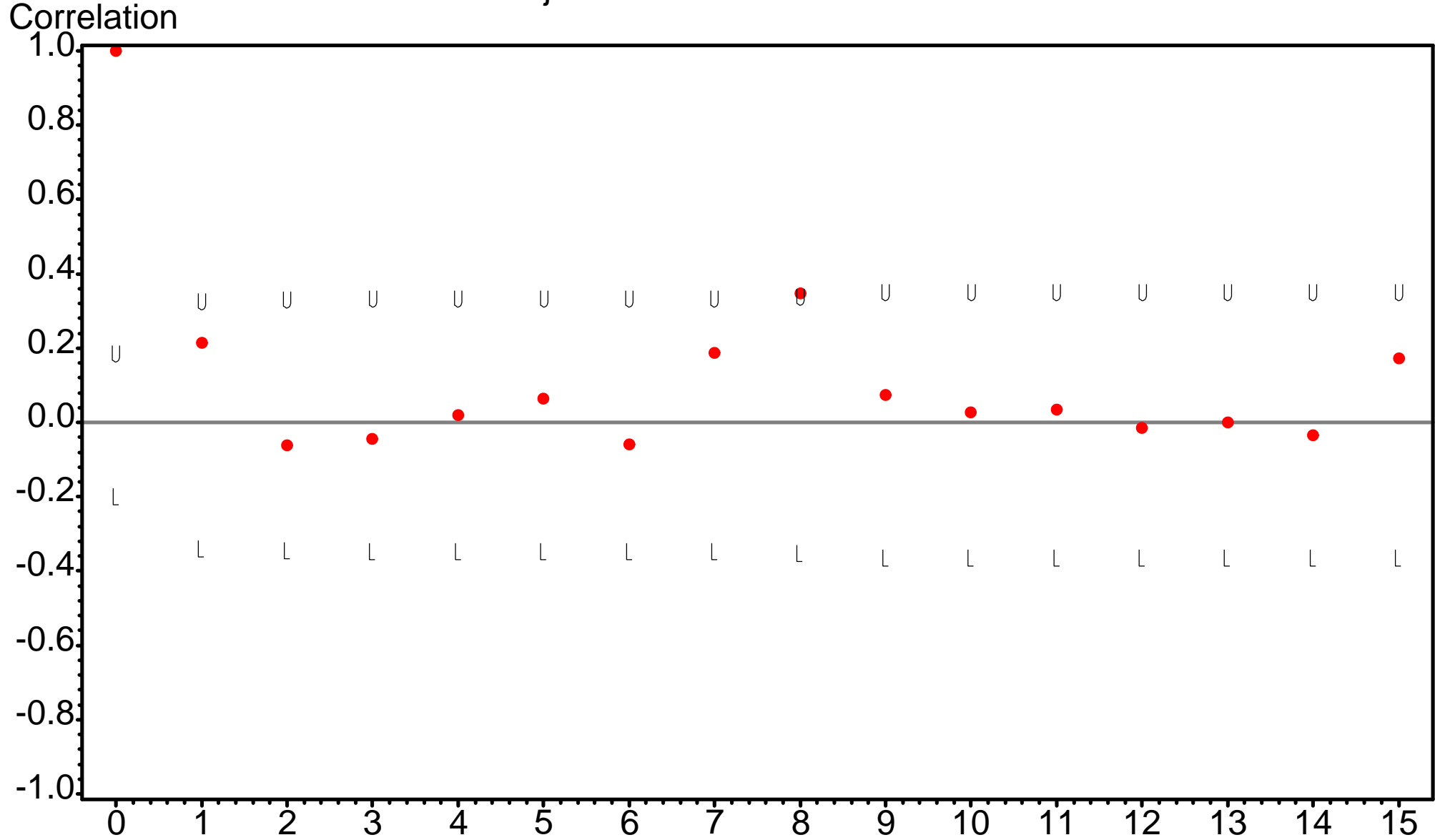
Bokeelia Trends Appendix - Display 104

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.214	0.167	0.333	-0.333
2	-0.062	0.169	0.338	-0.338
3	-0.045	0.169	0.339	-0.339
4	0.020	0.170	0.339	-0.339
5	0.063	0.170	0.339	-0.339
6	-0.059	0.170	0.340	-0.340
7	0.187	0.170	0.340	-0.340
8	0.347	0.172	0.344	-0.344
9	0.075	0.178	0.356	-0.356
10	0.027	0.179	0.357	-0.357
11	0.034	0.179	0.357	-0.357
12	-0.015	0.179	0.357	-0.357
13	-0.001	0.179	0.357	-0.357
14	-0.034	0.179	0.357	-0.357
15	0.172	0.179	0.357	-0.357

Bokeelia Trends Appendix - Display 105

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 106
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Unadjusted for Seasonal Medians

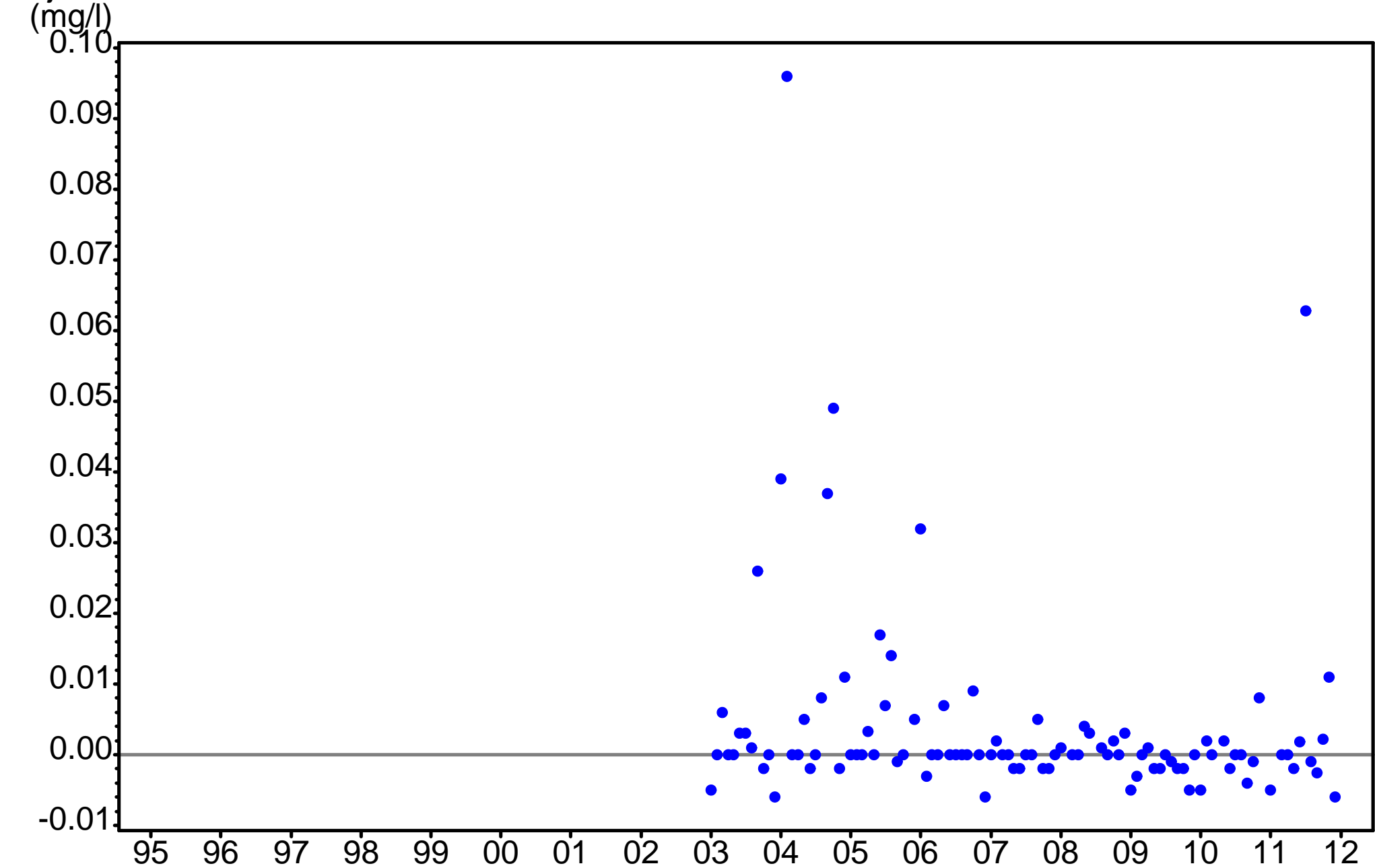
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.152	0.019	0.019	0

Bokeelia Trends Appendix - Display 107
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21039	.00446501	0.072366	0

Bokeelia Trends Appendix - Display 108

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted Bokeelia



Zero Reference Line Shown

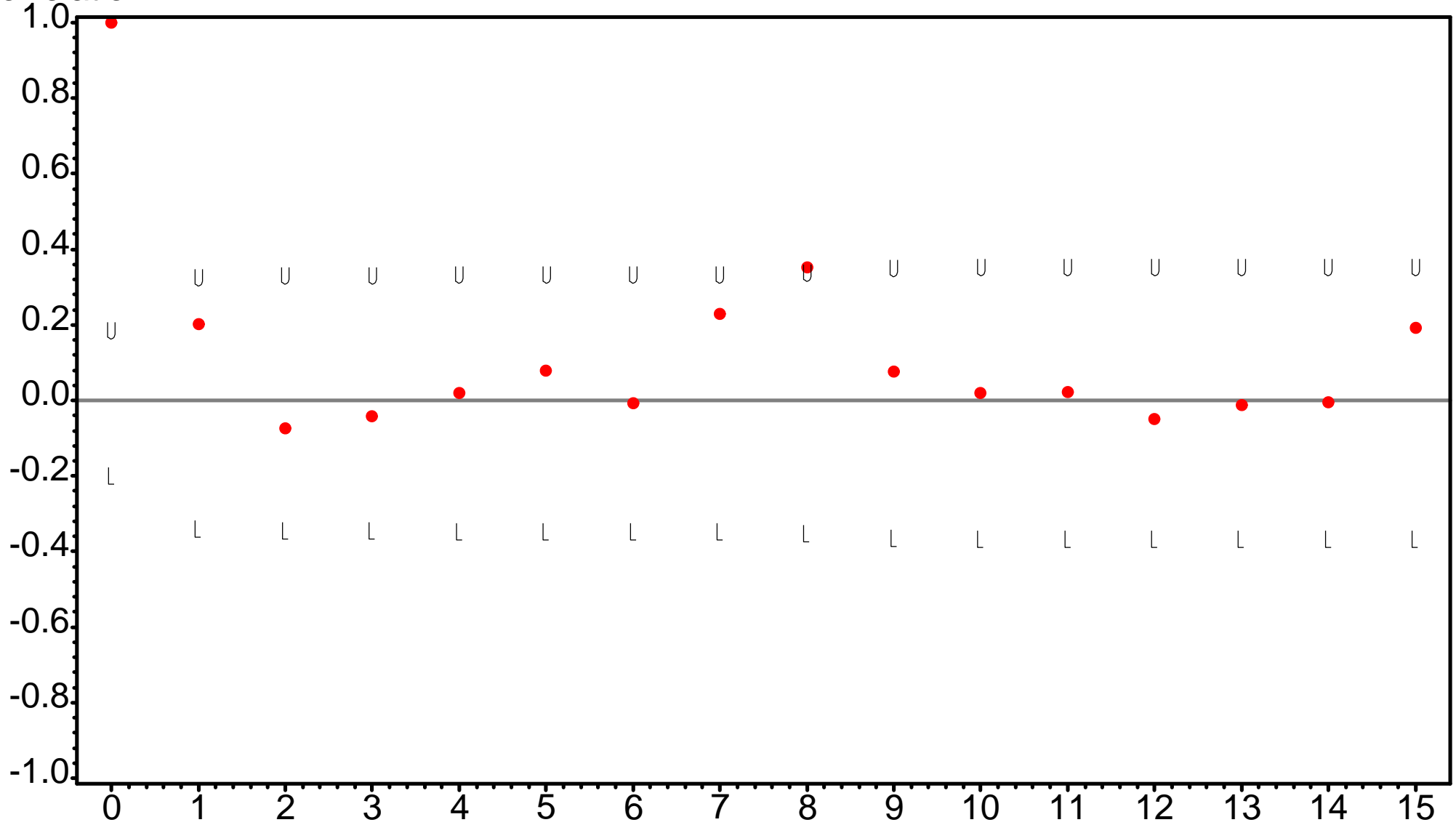
Bokeelia Trends Appendix - Display 109
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.203	0.167	0.333	-0.333
2	-0.073	0.169	0.338	-0.338
3	-0.043	0.169	0.338	-0.338
4	0.020	0.169	0.339	-0.339
5	0.080	0.169	0.339	-0.339
6	-0.008	0.170	0.339	-0.339
7	0.228	0.170	0.339	-0.339
8	0.351	0.173	0.345	-0.345
9	0.076	0.179	0.358	-0.358
10	0.019	0.179	0.359	-0.359
11	0.021	0.179	0.359	-0.359
12	-0.049	0.179	0.359	-0.359
13	-0.012	0.179	0.359	-0.359
14	-0.004	0.179	0.359	-0.359
15	0.193	0.179	0.359	-0.359

Bokeelia Trends Appendix - Display 110

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Bokeelia
Adjusted for Seasonal Median and Detrended

Correlation

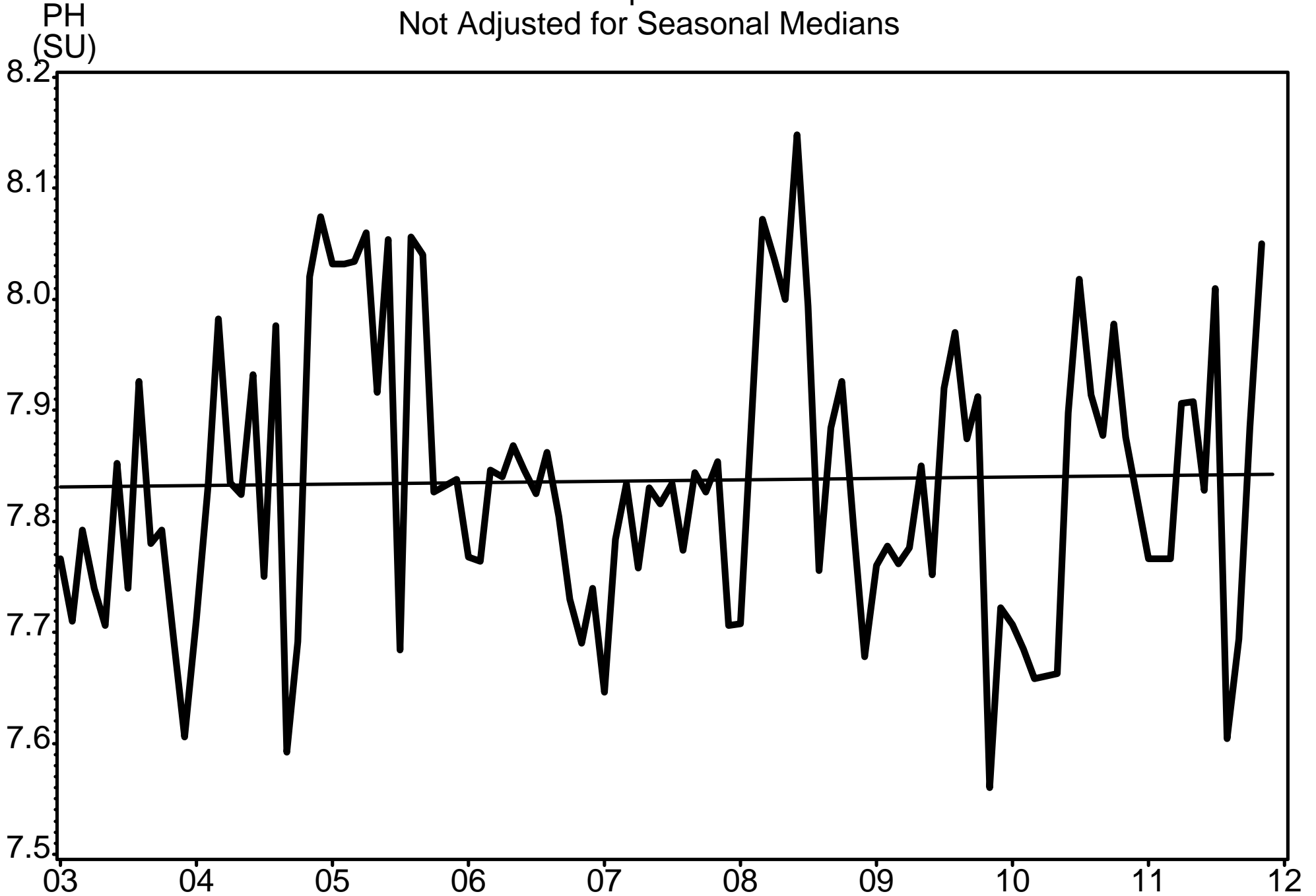


Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 111

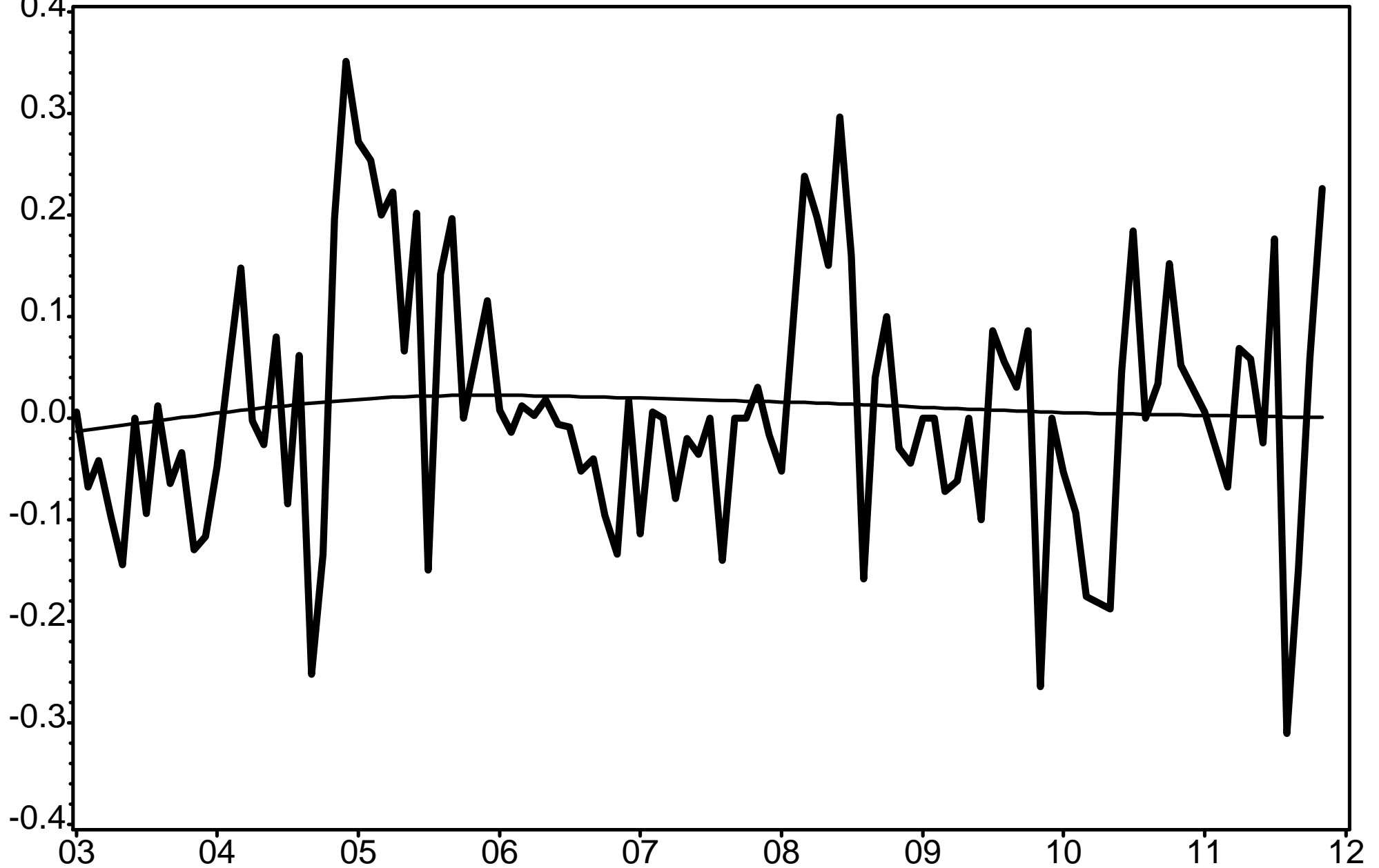
Monthly Data Time Series
for Surface pH in Bokeelia
Not Adjusted for Seasonal Medians



Bokeelia Trends Appendix - Display 112

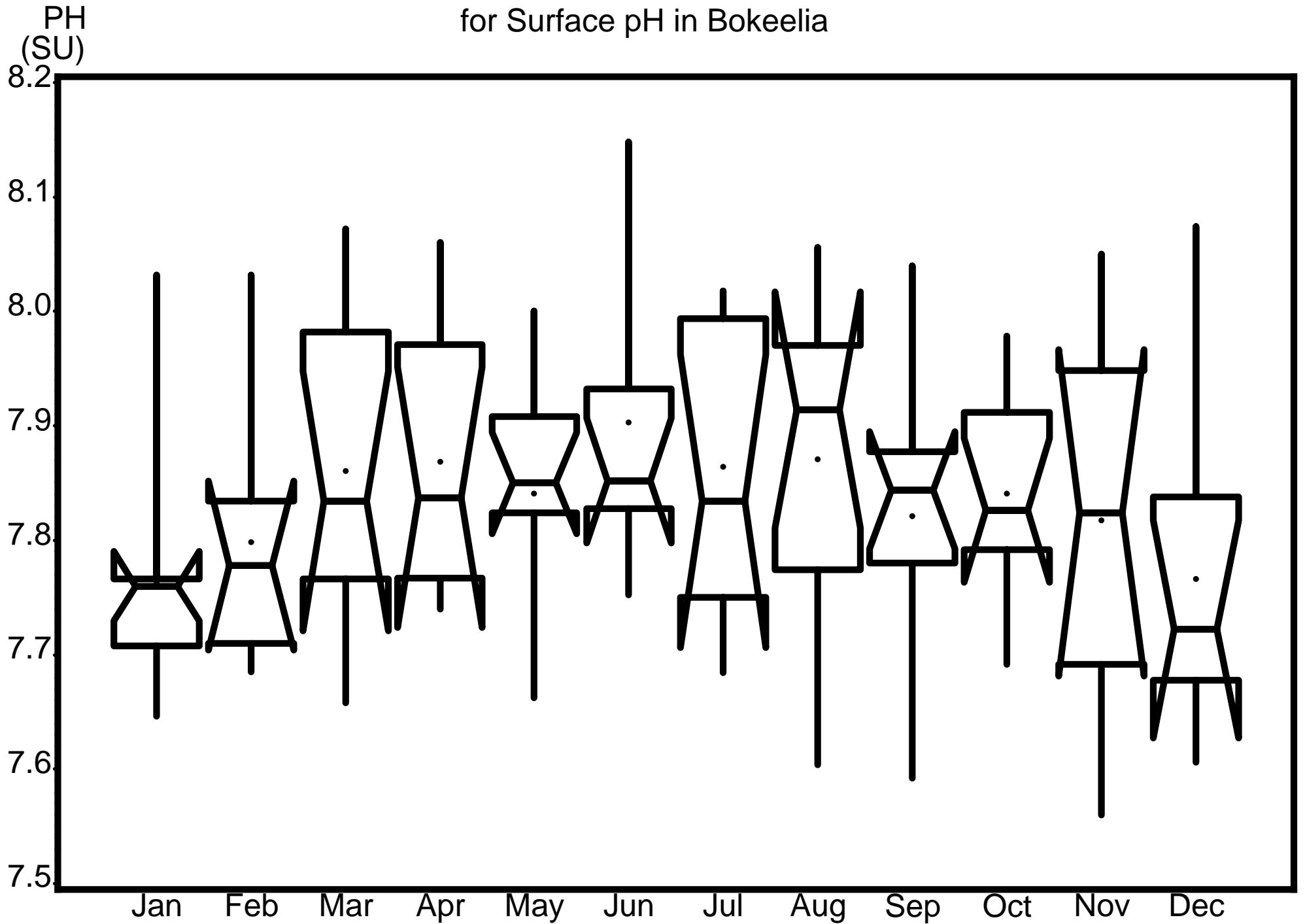
Monthly Data Time Series
for Surface pH in Bokeelia
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Bokeelia Trends Appendix - Display 113

Seasonal Univariate Statistics
for Surface pH in Bokeelia

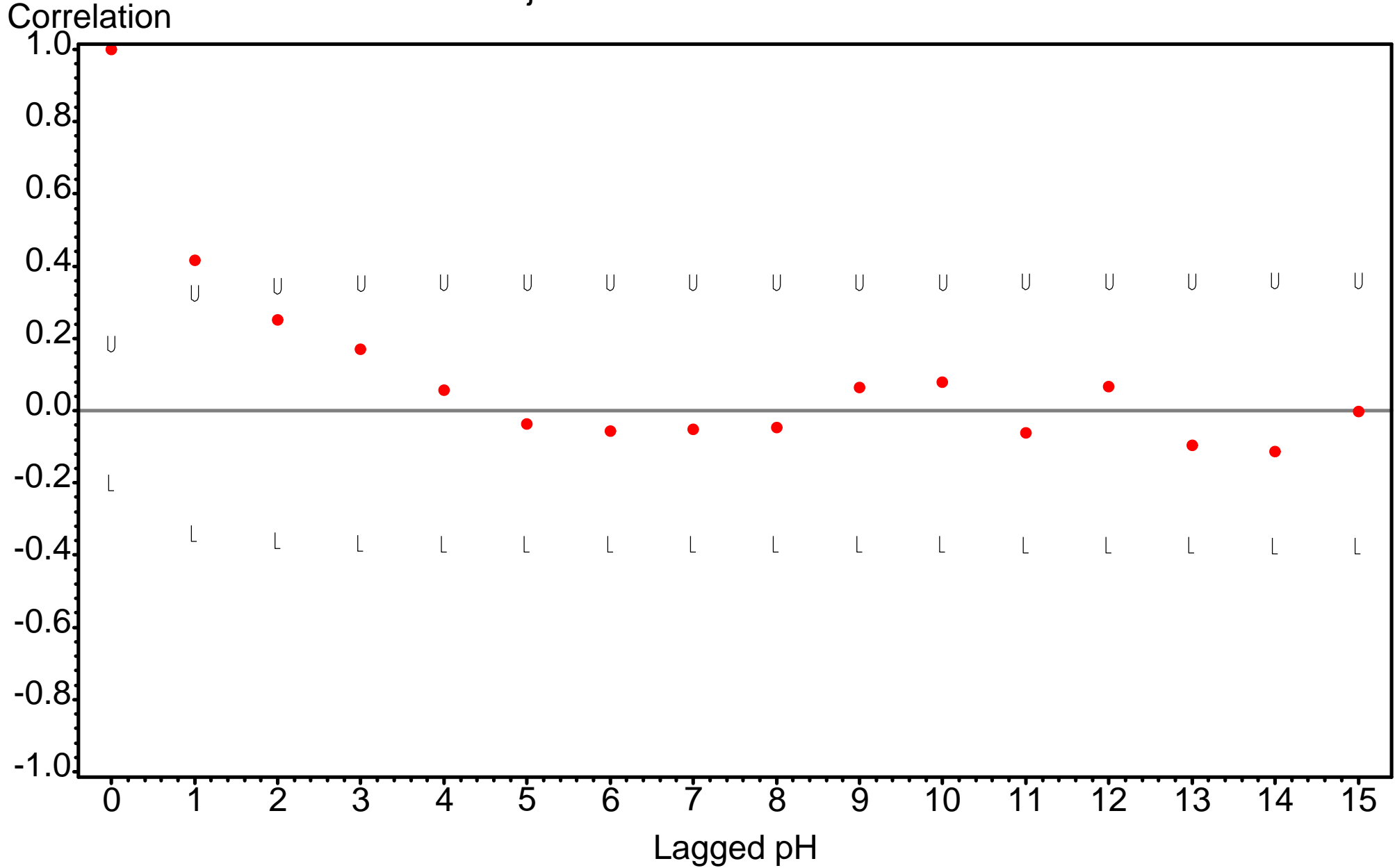


Bokeelia Trends Appendix - Display 114
Autocorrelation Statistics for Surface pH in Bokeelia

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.417	0.167	0.333	-0.333
2	0.251	0.176	0.352	-0.352
3	0.170	0.179	0.359	-0.359
4	0.057	0.181	0.362	-0.362
5	-0.038	0.181	0.362	-0.362
6	-0.056	0.181	0.362	-0.362
7	-0.052	0.181	0.362	-0.362
8	-0.046	0.181	0.363	-0.363
9	0.064	0.181	0.363	-0.363
10	0.079	0.182	0.363	-0.363
11	-0.061	0.182	0.364	-0.364
12	0.067	0.182	0.364	-0.364
13	-0.097	0.182	0.365	-0.365
14	-0.114	0.183	0.366	-0.366
15	-0.003	0.184	0.367	-0.367

Bokeelia Trends Appendix - Display 115

Correlogram for Surface pH in Bokeelia
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 116
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.03	0.662	0.662	.003

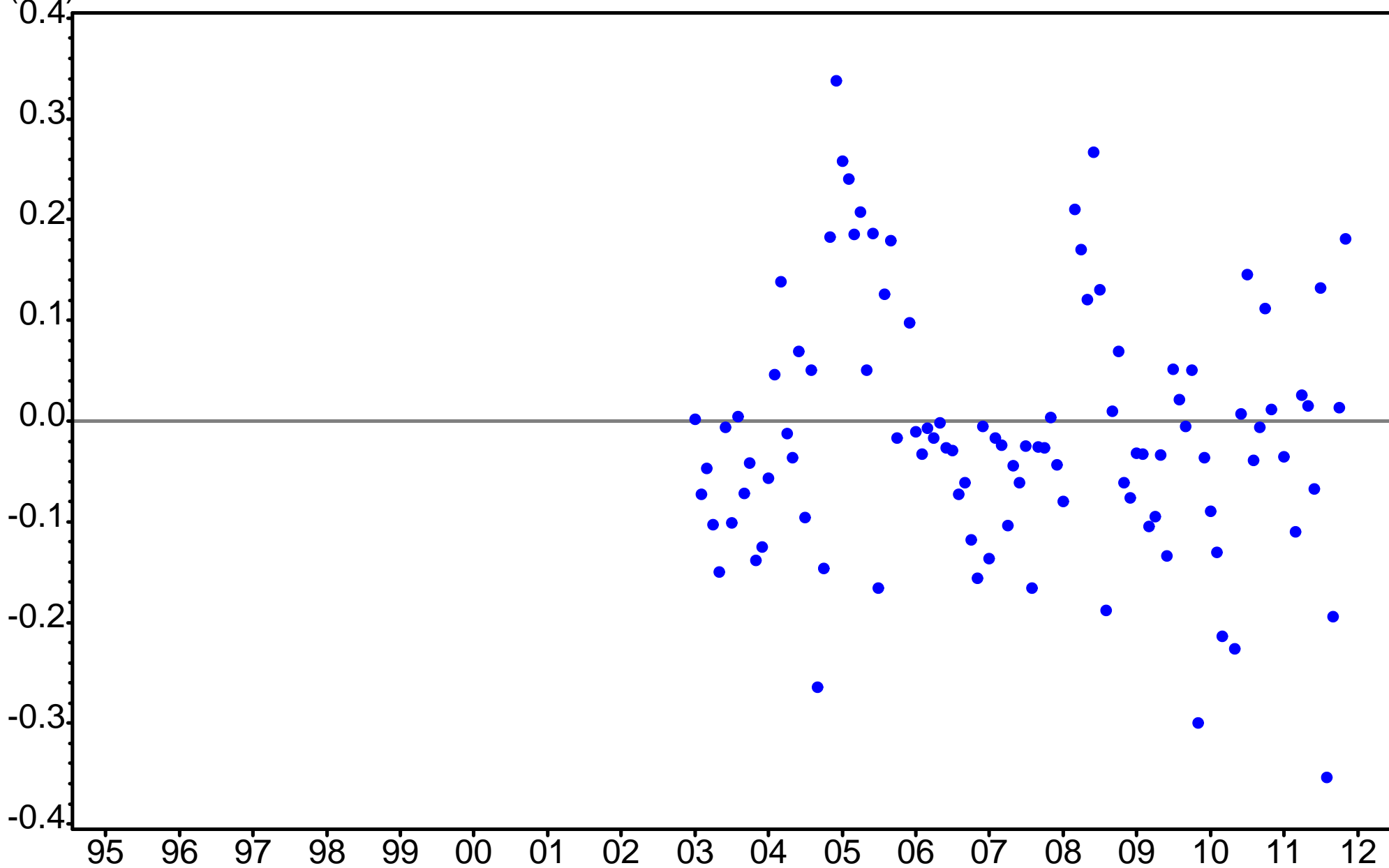
Bokeelia Trends Appendix - Display 117
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.051814	0.53832	0.68038	.00458333

Bokeelia Trends Appendix - Display 118

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(SU)



Zero Reference Line Shown

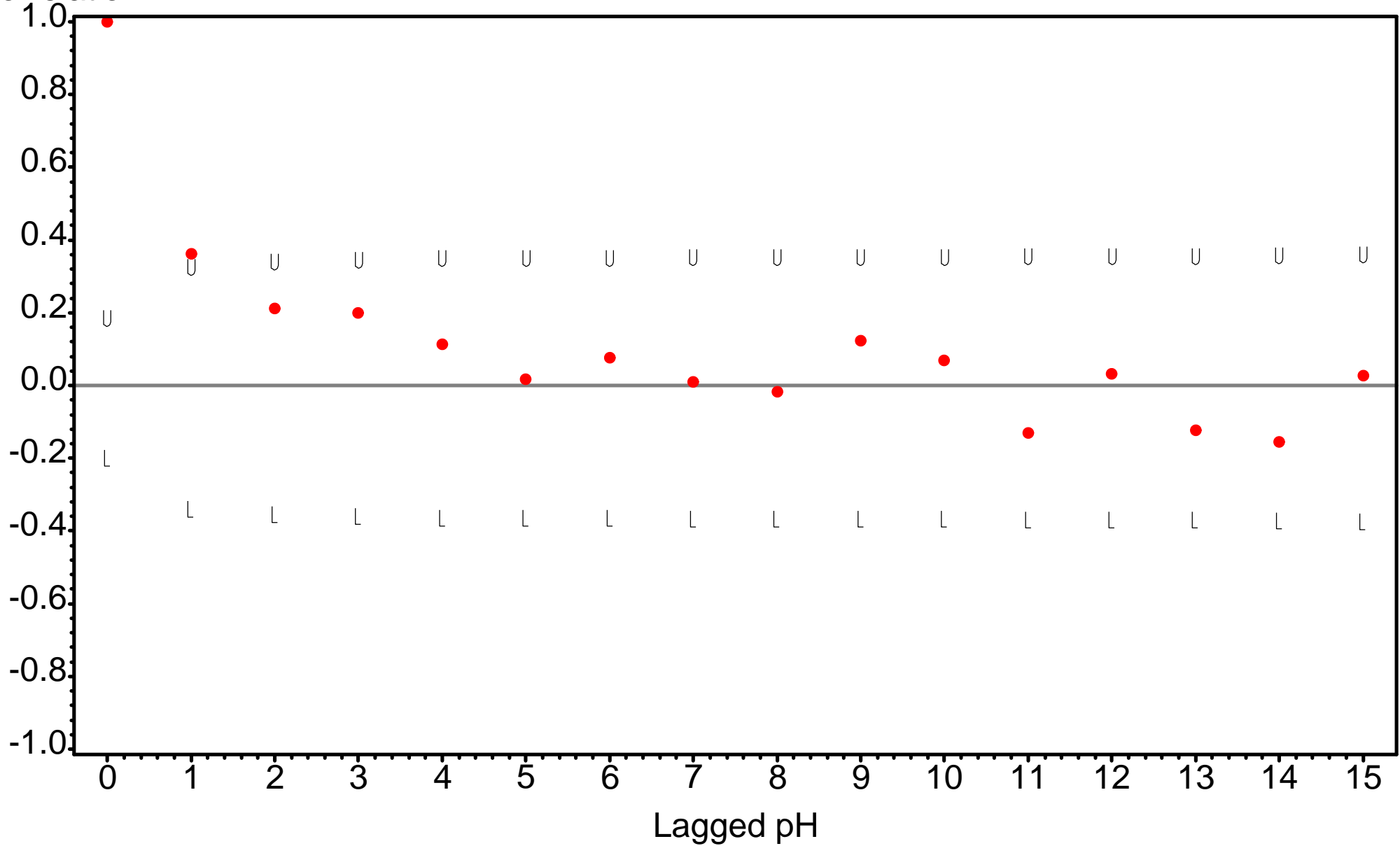
Bokeelia Trends Appendix - Display 119
Autocorrelation Statistics for Surface pH in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.363	0.167	0.333	-0.333
2	0.211	0.174	0.348	-0.348
3	0.200	0.176	0.352	-0.352
4	0.114	0.178	0.357	-0.357
5	0.017	0.179	0.358	-0.358
6	0.076	0.179	0.358	-0.358
7	0.011	0.179	0.359	-0.359
8	-0.017	0.179	0.359	-0.359
9	0.123	0.179	0.359	-0.359
10	0.069	0.180	0.360	-0.360
11	-0.131	0.180	0.361	-0.361
12	0.031	0.181	0.362	-0.362
13	-0.124	0.181	0.362	-0.362
14	-0.155	0.182	0.364	-0.364
15	0.027	0.183	0.366	-0.366

Bokeelia Trends Appendix - Display 120

Correlogram for Surface pH in Bokeelia
Adjusted for Seasonal Median and Detrended

Correlation

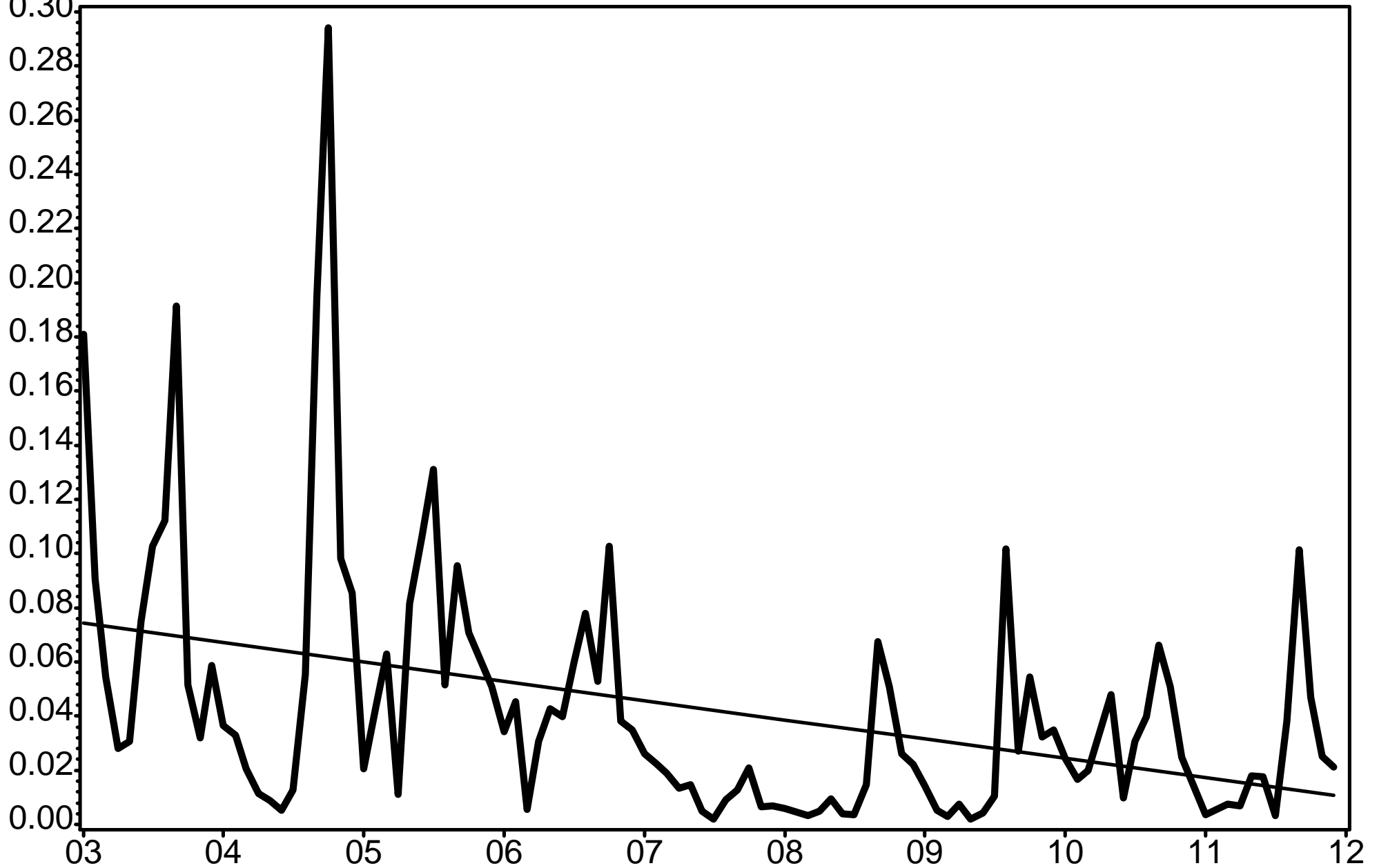


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 121

Monthly Data Time Series
for Surface Orthophosphate (as P) in Bokeelia
Not Adjusted for Seasonal Medians

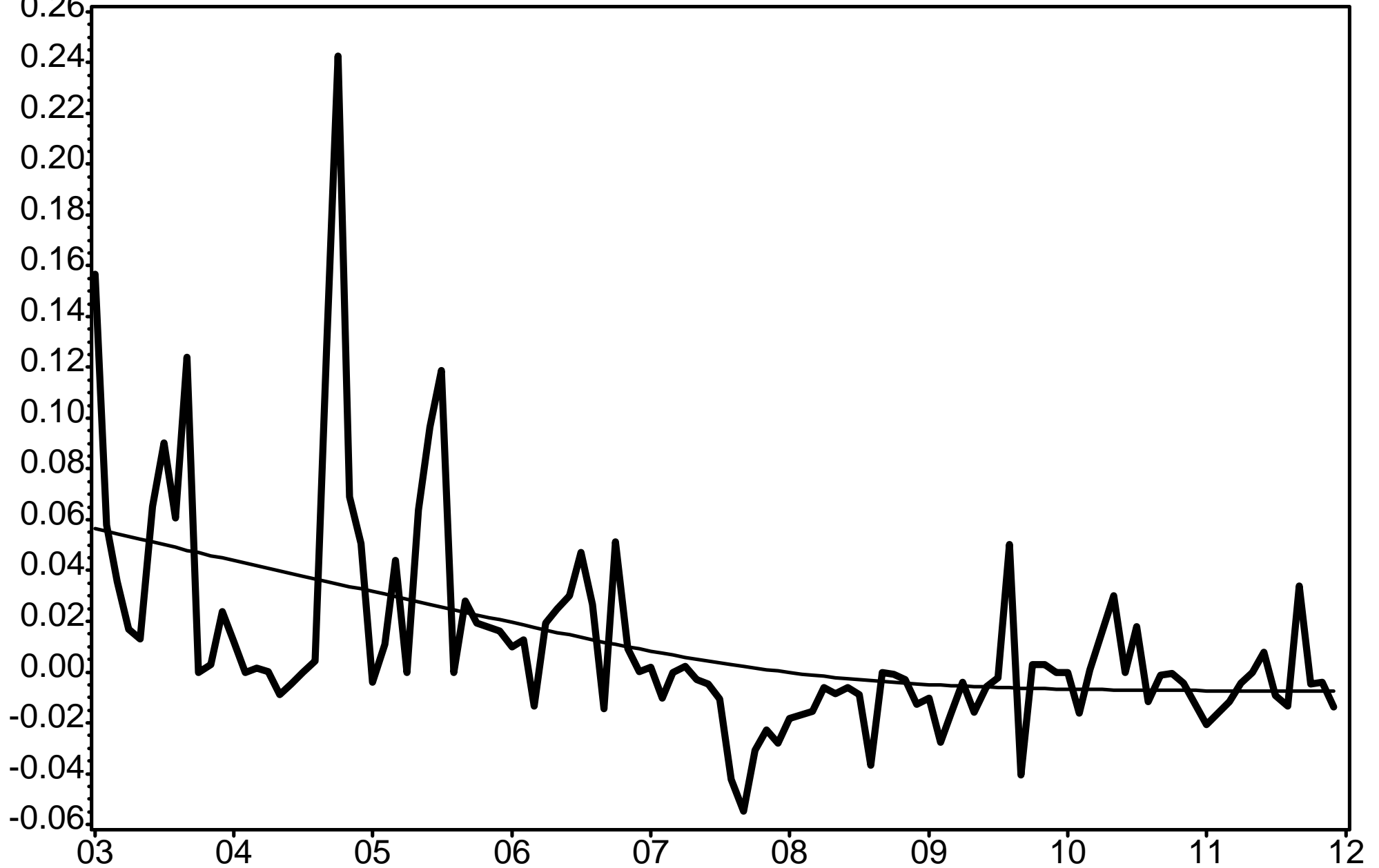
PO4_mgl
(mg/l)



Bokeelia Trends Appendix - Display 122

Monthly Data Time Series
for Surface Orthophosphate (as P) in Bokeelia
Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

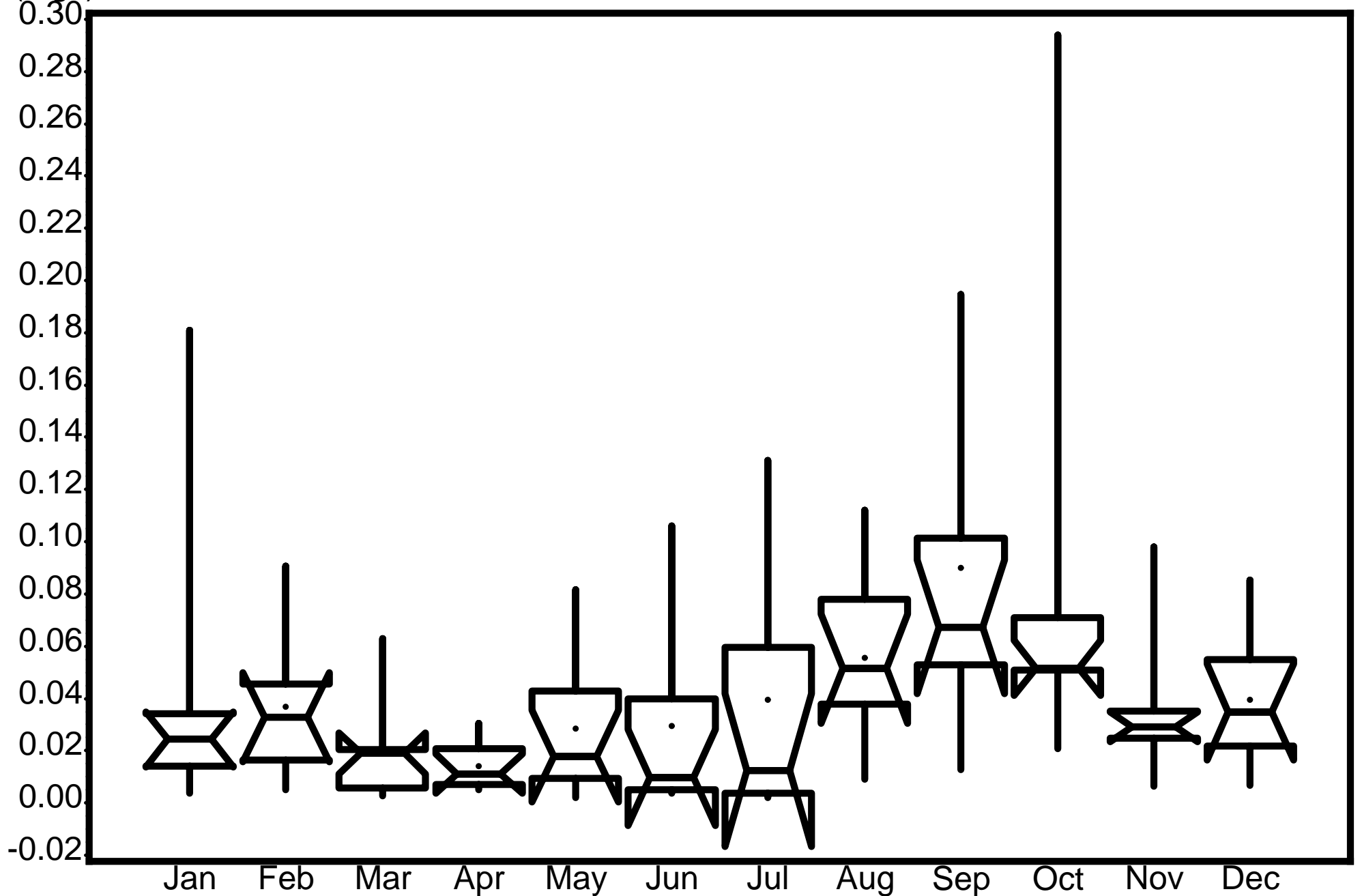


Bokeelia Trends Appendix - Display 123

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Bokeelia

PO4_mgl
(mg/l)



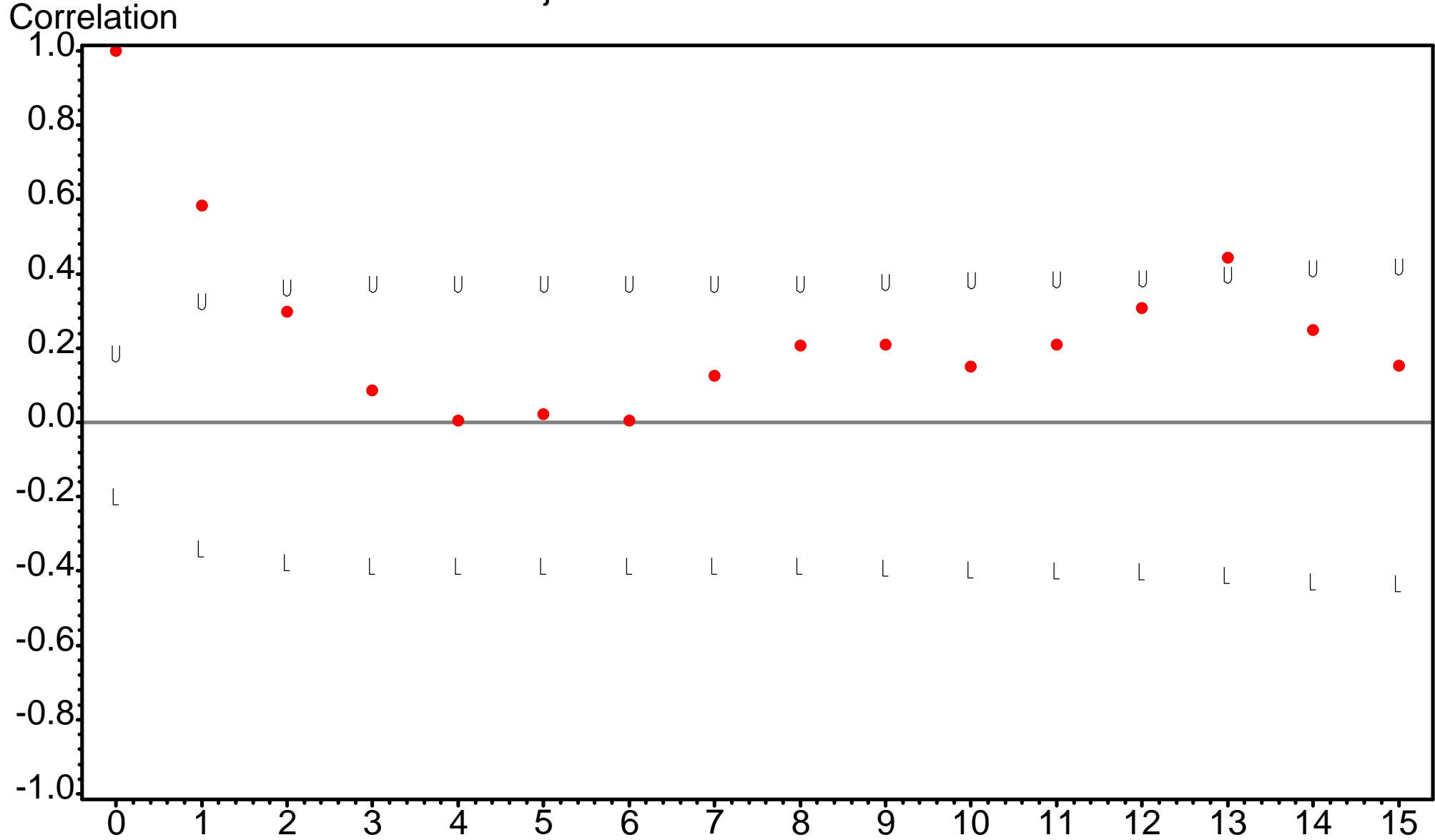
Bokeelia Trends Appendix - Display 124
Autocorrelation Statistics for Surface Orthophosphate (as P) in Bokeelia

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.584	0.167	0.333	-0.333
2	0.298	0.185	0.369	-0.369
3	0.086	0.189	0.378	-0.378
4	0.004	0.189	0.379	-0.379
5	0.021	0.189	0.379	-0.379
6	0.006	0.189	0.379	-0.379
7	0.125	0.189	0.379	-0.379
8	0.206	0.190	0.380	-0.380
9	0.209	0.192	0.384	-0.384
10	0.149	0.194	0.389	-0.389
11	0.209	0.195	0.391	-0.391
12	0.307	0.197	0.395	-0.395
13	0.442	0.202	0.404	-0.404
14	0.249	0.211	0.421	-0.421
15	0.153	0.213	0.427	-0.427

Bokeelia Trends Appendix - Display 125

Correlogram for Surface Orthophosphate (as P) in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 126
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Bokeelia
Unadjusted for Seasonal Medians

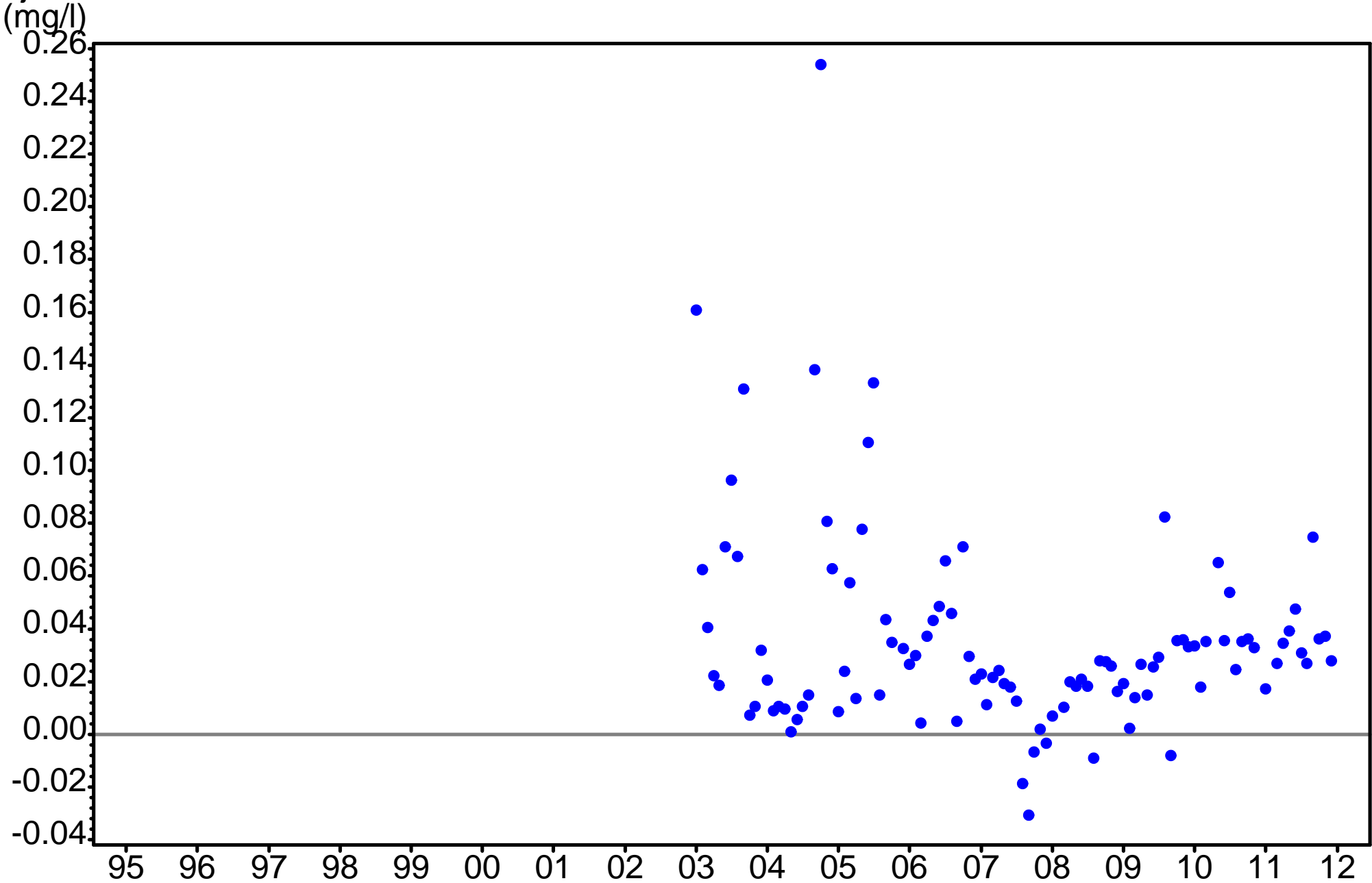
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.275	0	0	-.005

Bokeelia Trends Appendix - Display 127
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.39695	.000000636	0.033958	-.0042

Bokeelia Trends Appendix - Display 128

Time Series Plot of Surface Orthophosphate (as P) Data Adjusted for Season and Detrended
Adjusted
Bokeelia



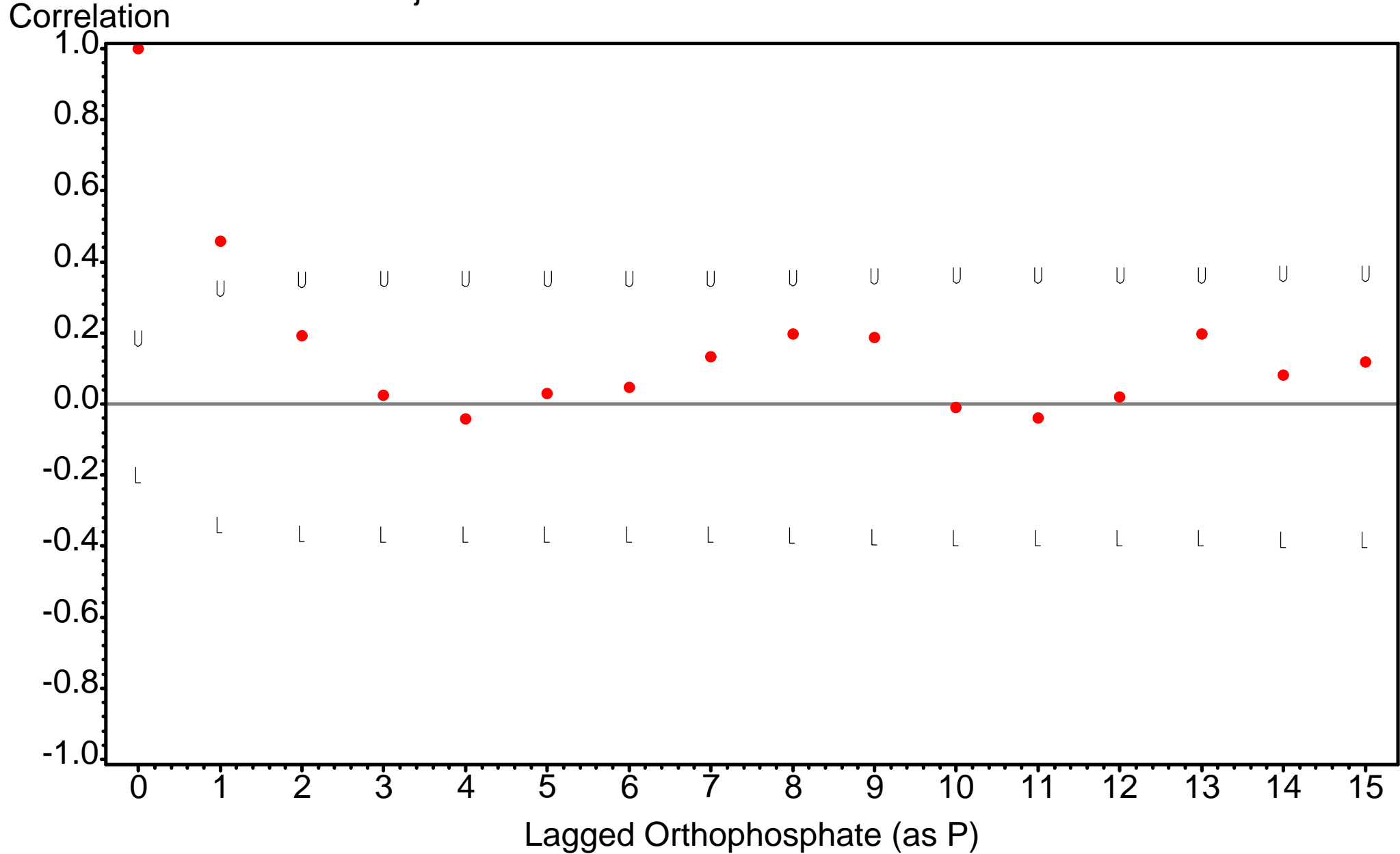
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 129
Autocorrelation Statistics for Surface Orthophosphate (as P) in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.459	0.167	0.333	-0.333
2	0.193	0.178	0.356	-0.356
3	0.024	0.180	0.360	-0.360
4	-0.042	0.180	0.360	-0.360
5	0.030	0.180	0.360	-0.360
6	0.048	0.180	0.360	-0.360
7	0.134	0.180	0.360	-0.360
8	0.198	0.181	0.362	-0.362
9	0.186	0.183	0.366	-0.366
10	-0.010	0.185	0.370	-0.370
11	-0.039	0.185	0.370	-0.370
12	0.019	0.185	0.370	-0.370
13	0.196	0.185	0.370	-0.370
14	0.082	0.187	0.374	-0.374
15	0.119	0.187	0.374	-0.374

Bokeelia Trends Appendix - Display 130

Correlogram for Surface Orthophosphate (as P) in Bokeelia Adjusted for Seasonal Median and Detrended

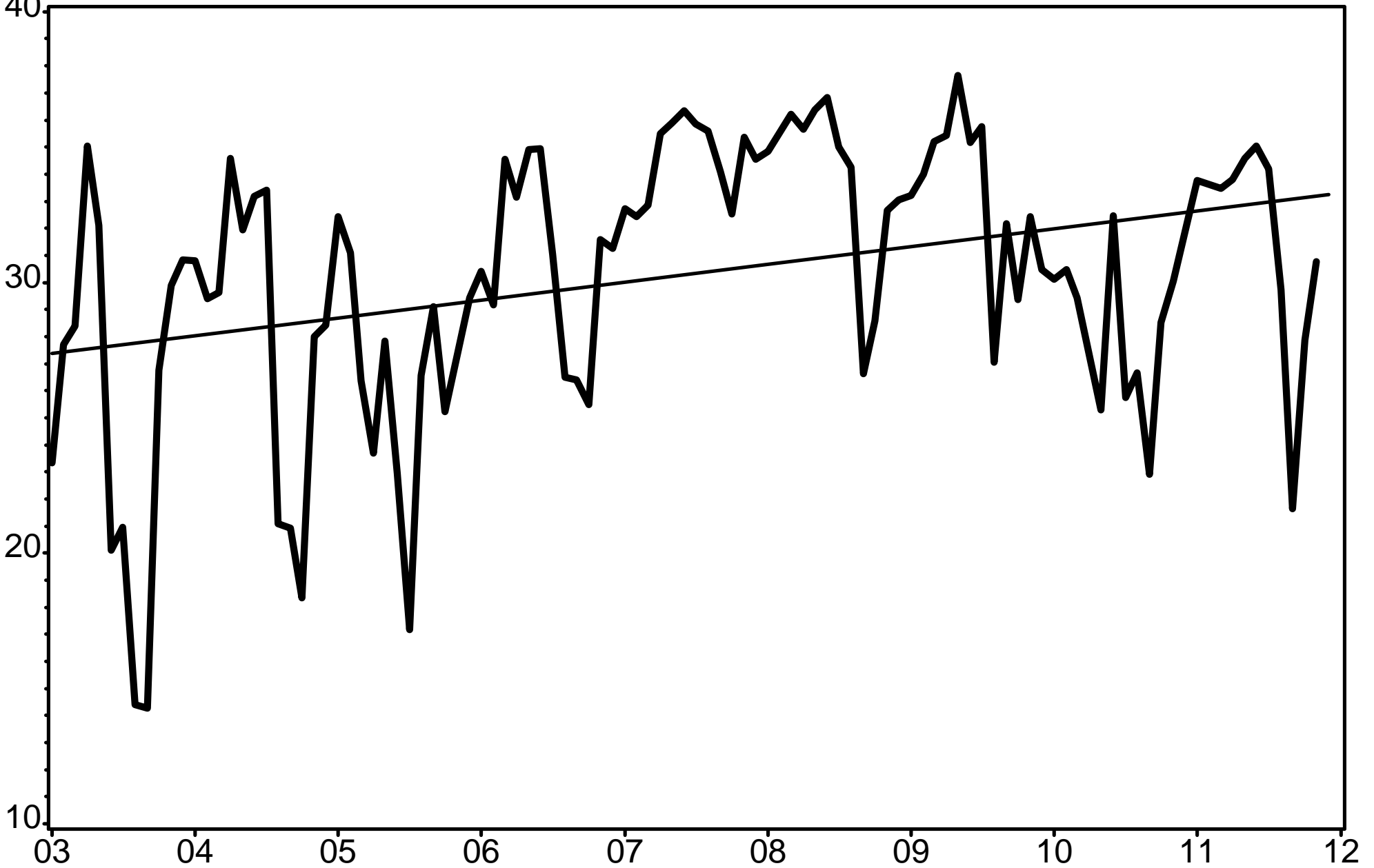


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 131

Monthly Data Time Series
for Surface Salinity in Bokeelia
Not Adjusted for Seasonal Medians

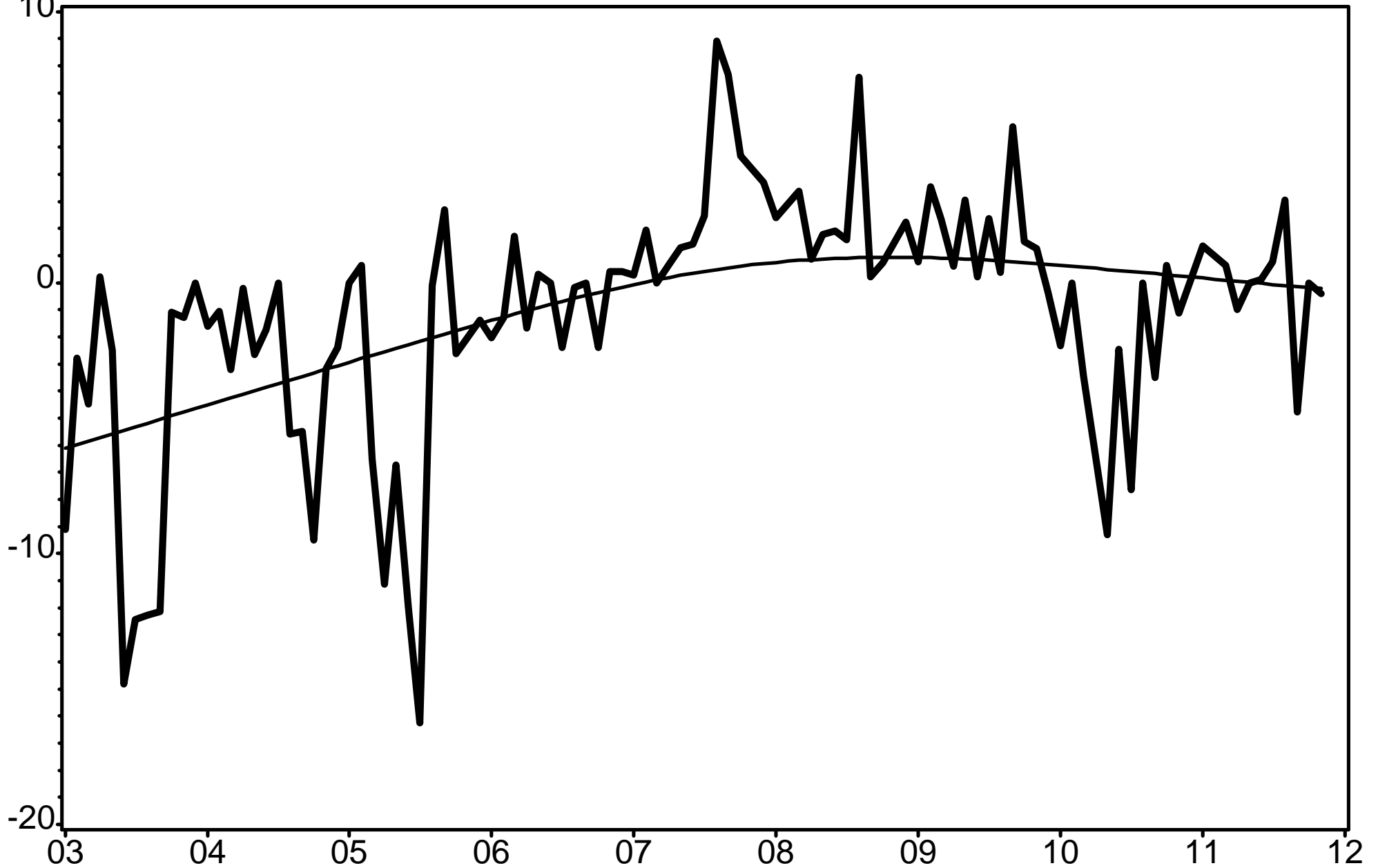
Salinity
(ppt)



Bokeelia Trends Appendix - Display 132

Monthly Data Time Series
for Surface Salinity in Bokeelia
Adjusted for Seasonal Medians

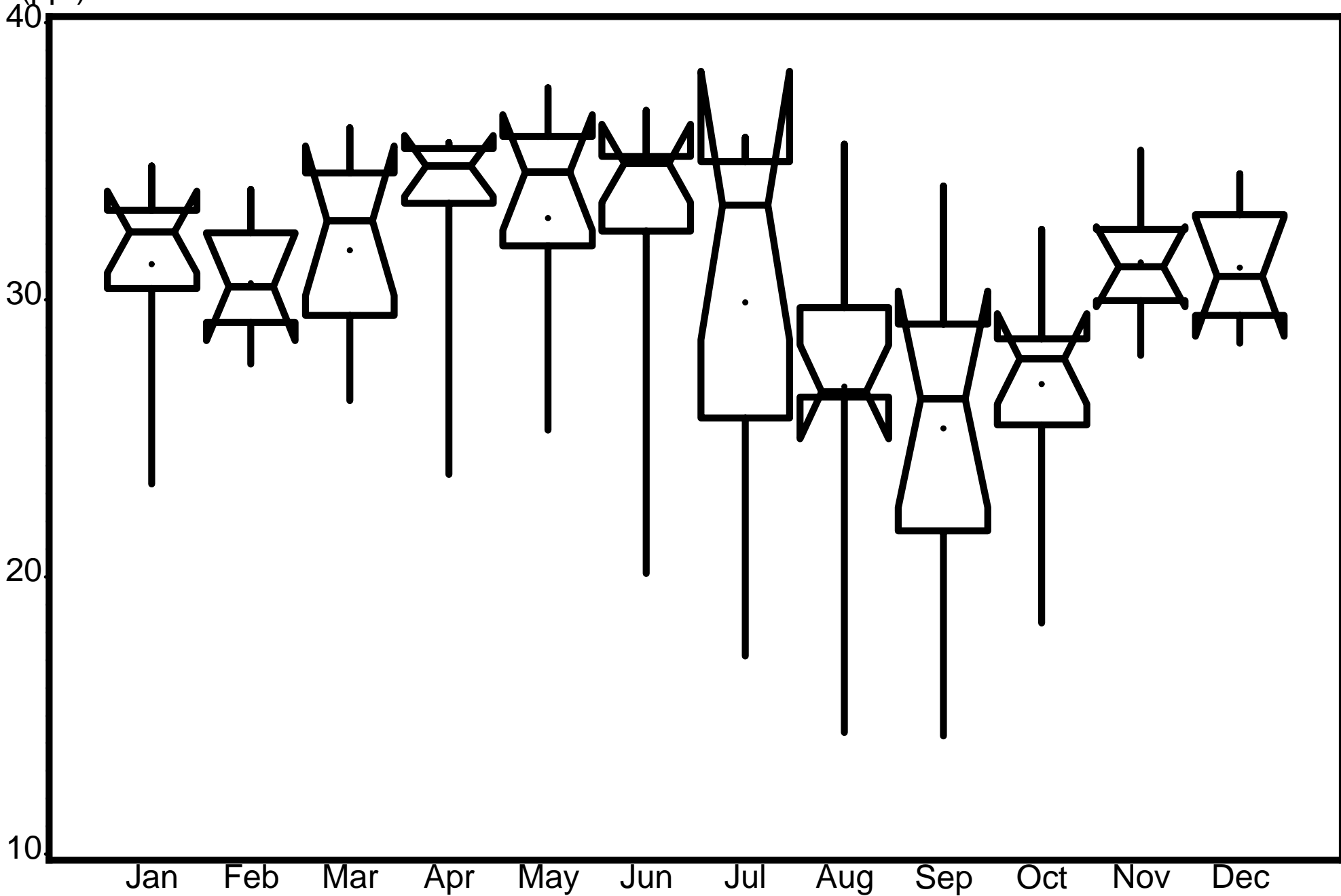
Adjusted
Salinity
(ppt)



Bokeelia Trends Appendix - Display 133

Seasonal Univariate Statistics
for Surface Salinity in Bokeelia

Salinity
(ppt)



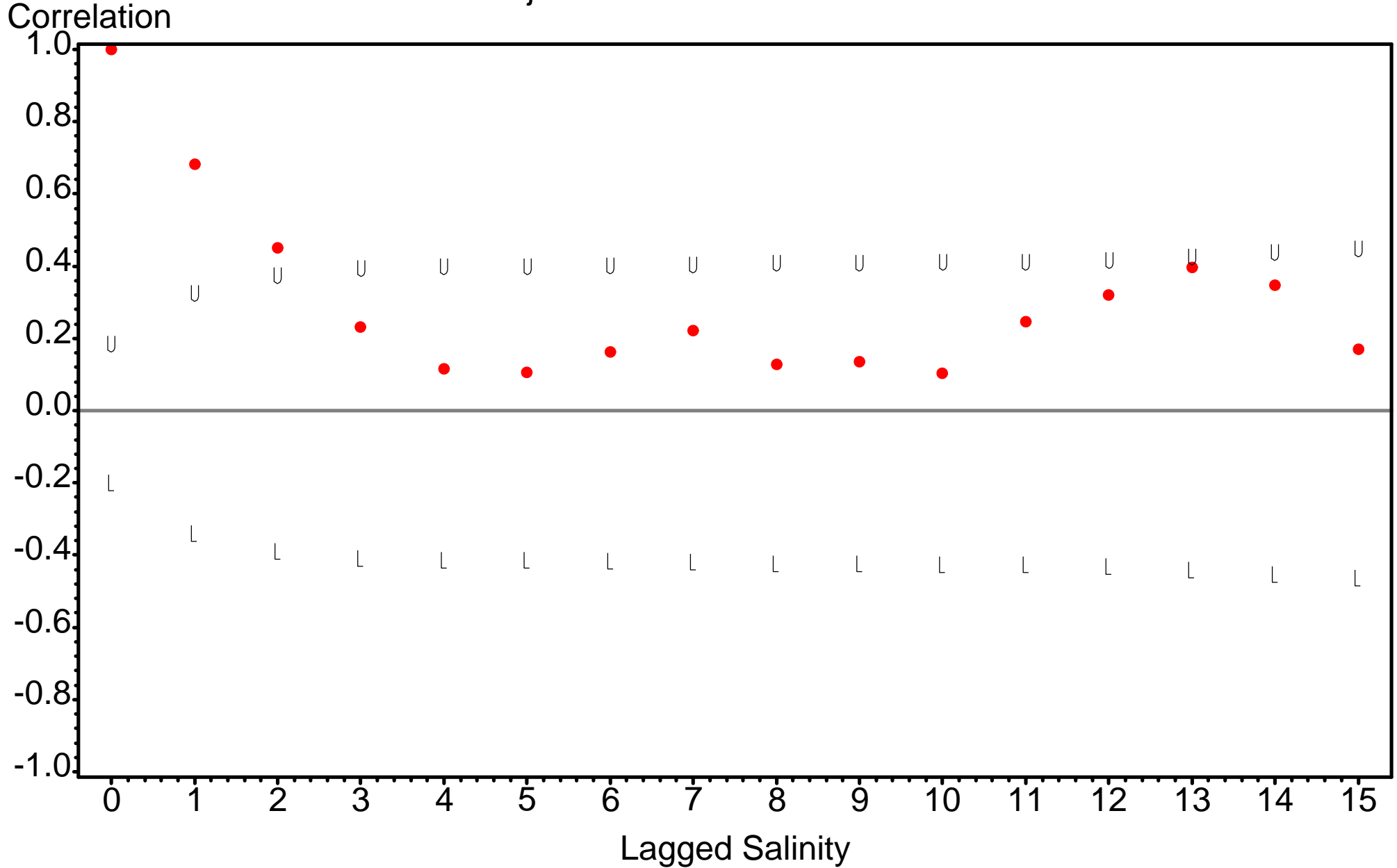
Bokeelia Trends Appendix - Display 134
Autocorrelation Statistics for Surface Salinity in Bokeelia

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.683	0.167	0.333	-0.333
2	0.451	0.191	0.382	-0.382
3	0.232	0.200	0.401	-0.401
4	0.115	0.203	0.406	-0.406
5	0.105	0.204	0.407	-0.407
6	0.162	0.204	0.408	-0.408
7	0.222	0.205	0.410	-0.410
8	0.129	0.207	0.415	-0.415
9	0.135	0.208	0.416	-0.416
10	0.104	0.209	0.418	-0.418
11	0.246	0.209	0.419	-0.419
12	0.321	0.212	0.424	-0.424
13	0.396	0.217	0.433	-0.433
14	0.347	0.223	0.446	-0.446
15	0.169	0.228	0.456	-0.456

Bokeelia Trends Appendix - Display 135

Correlogram for Surface Salinity in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 136
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.206	.002	.002	0.577

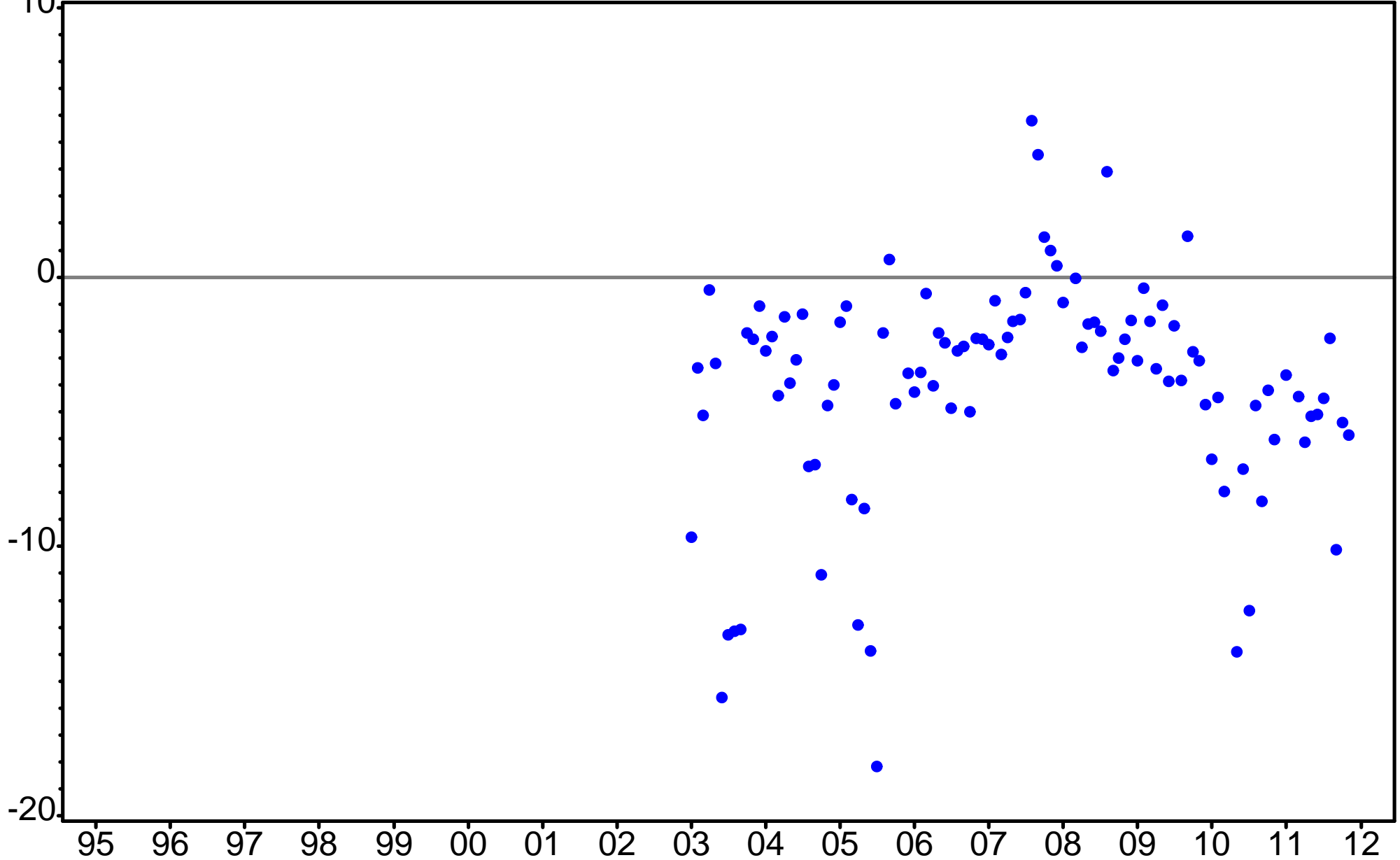
Bokeelia Trends Appendix - Display 137
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.31606	.000090718	0.15223	0.55474

Bokeelia Trends Appendix - Display 138

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(ppt)



Zero Reference Line Shown

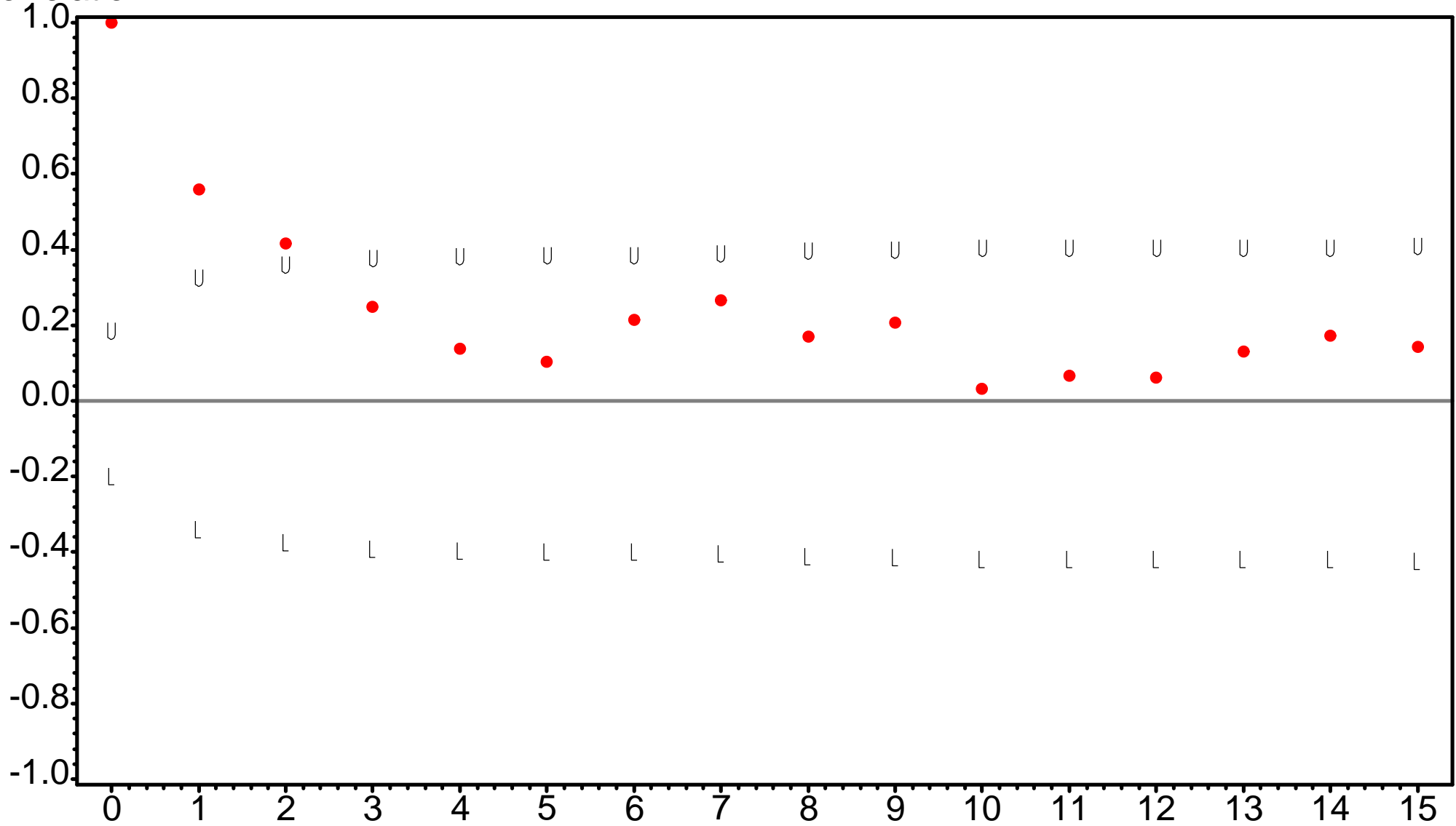
Bokeelia Trends Appendix - Display 139
Autocorrelation Statistics for Surface Salinity in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.558	0.167	0.333	-0.333
2	0.417	0.183	0.366	-0.366
3	0.249	0.192	0.383	-0.383
4	0.138	0.195	0.389	-0.389
5	0.103	0.196	0.391	-0.391
6	0.214	0.196	0.392	-0.392
7	0.266	0.198	0.397	-0.397
8	0.170	0.202	0.403	-0.403
9	0.206	0.203	0.406	-0.406
10	0.033	0.205	0.410	-0.410
11	0.067	0.205	0.410	-0.410
12	0.062	0.205	0.410	-0.410
13	0.130	0.205	0.410	-0.410
14	0.173	0.206	0.412	-0.412
15	0.144	0.207	0.415	-0.415

Bokeelia Trends Appendix - Display 140

Correlogram for Surface Salinity in Bokeelia
Adjusted for Seasonal Median and Detrended

Correlation



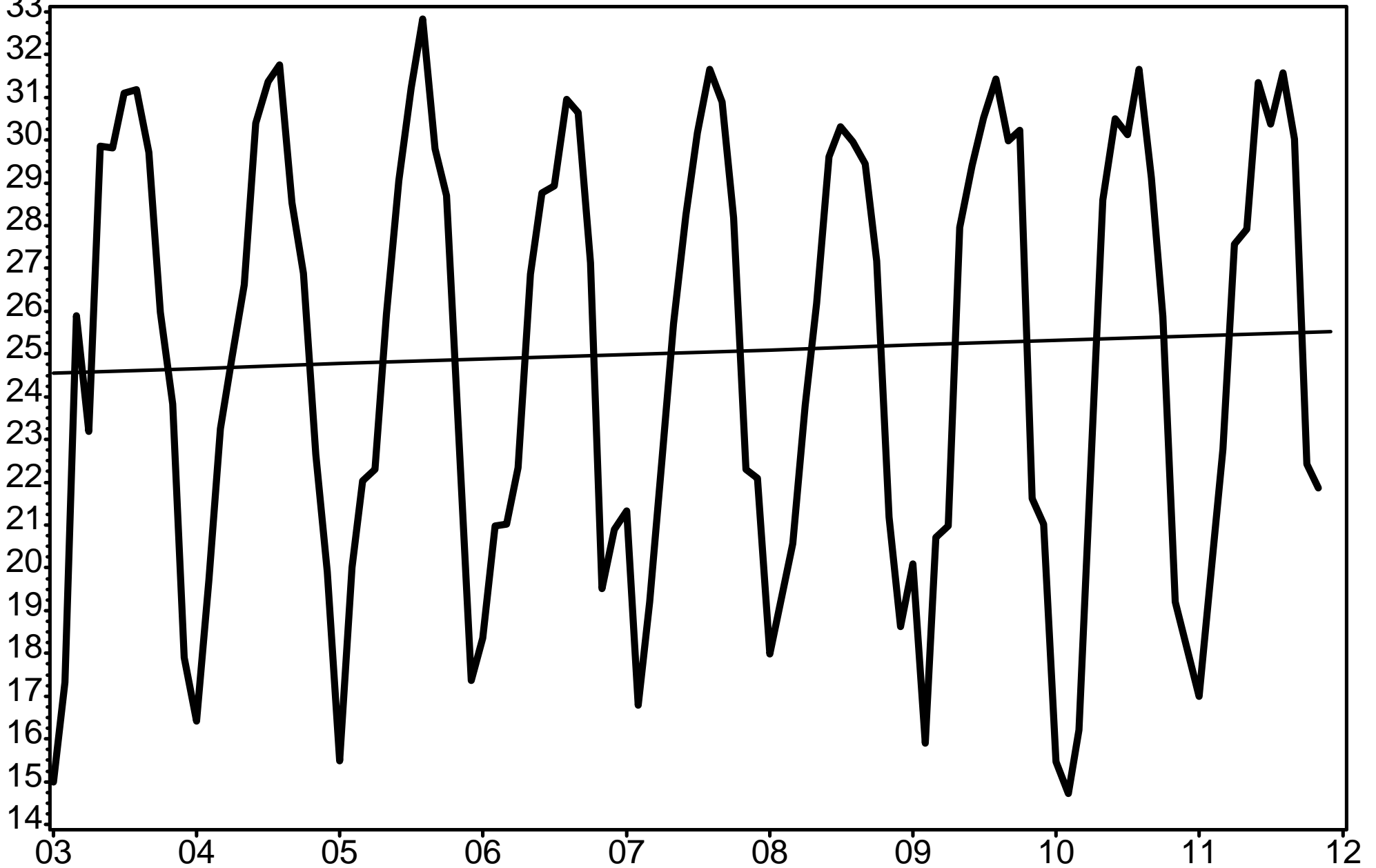
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 141

Monthly Data Time Series
for Surface Temperature in Bokeelia
Not Adjusted for Seasonal Medians

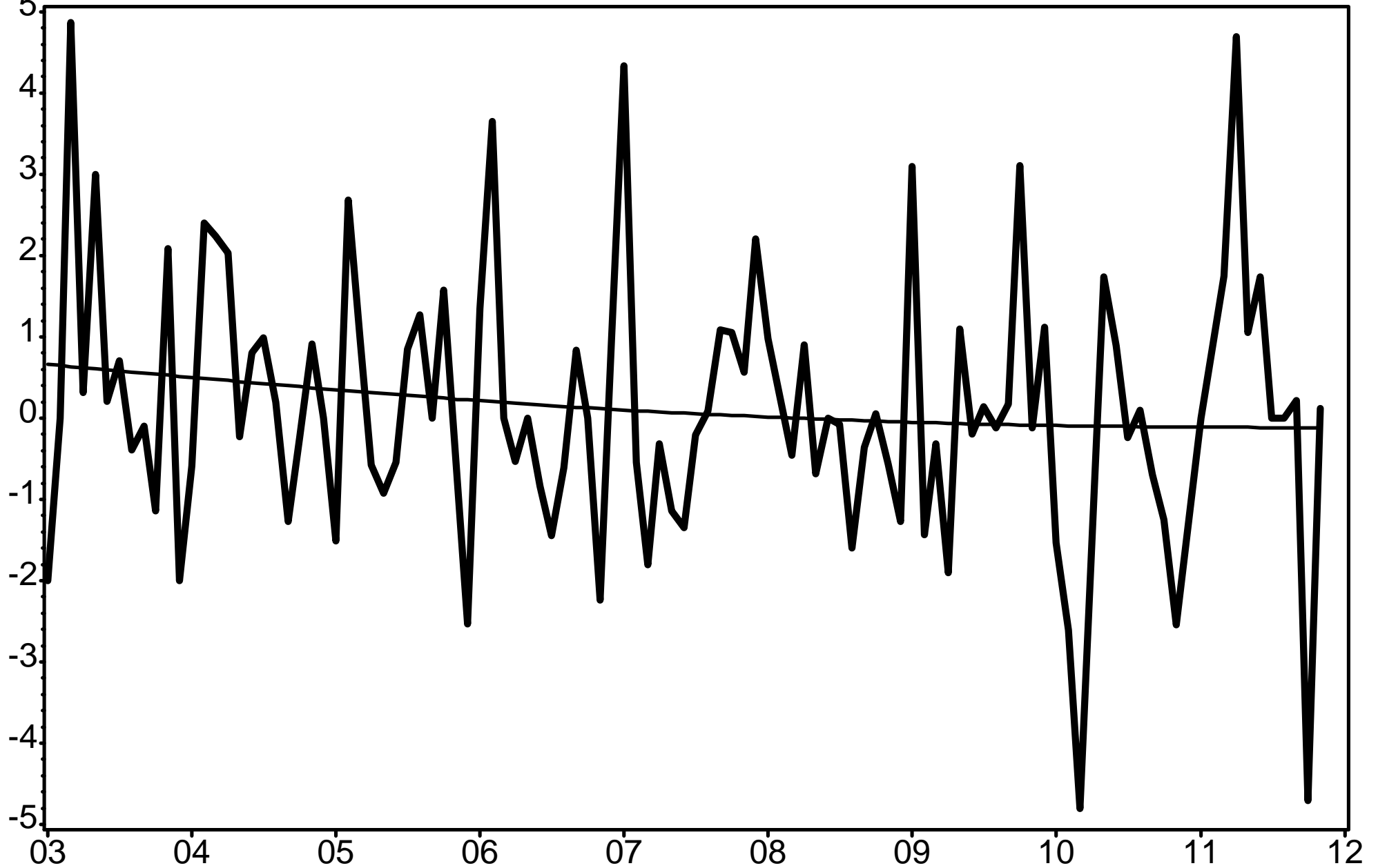
TEMP_C
(Degree C)



Bokeelia Trends Appendix - Display 142

Monthly Data Time Series
for Surface Temperature in Bokeelia
Adjusted for Seasonal Medians

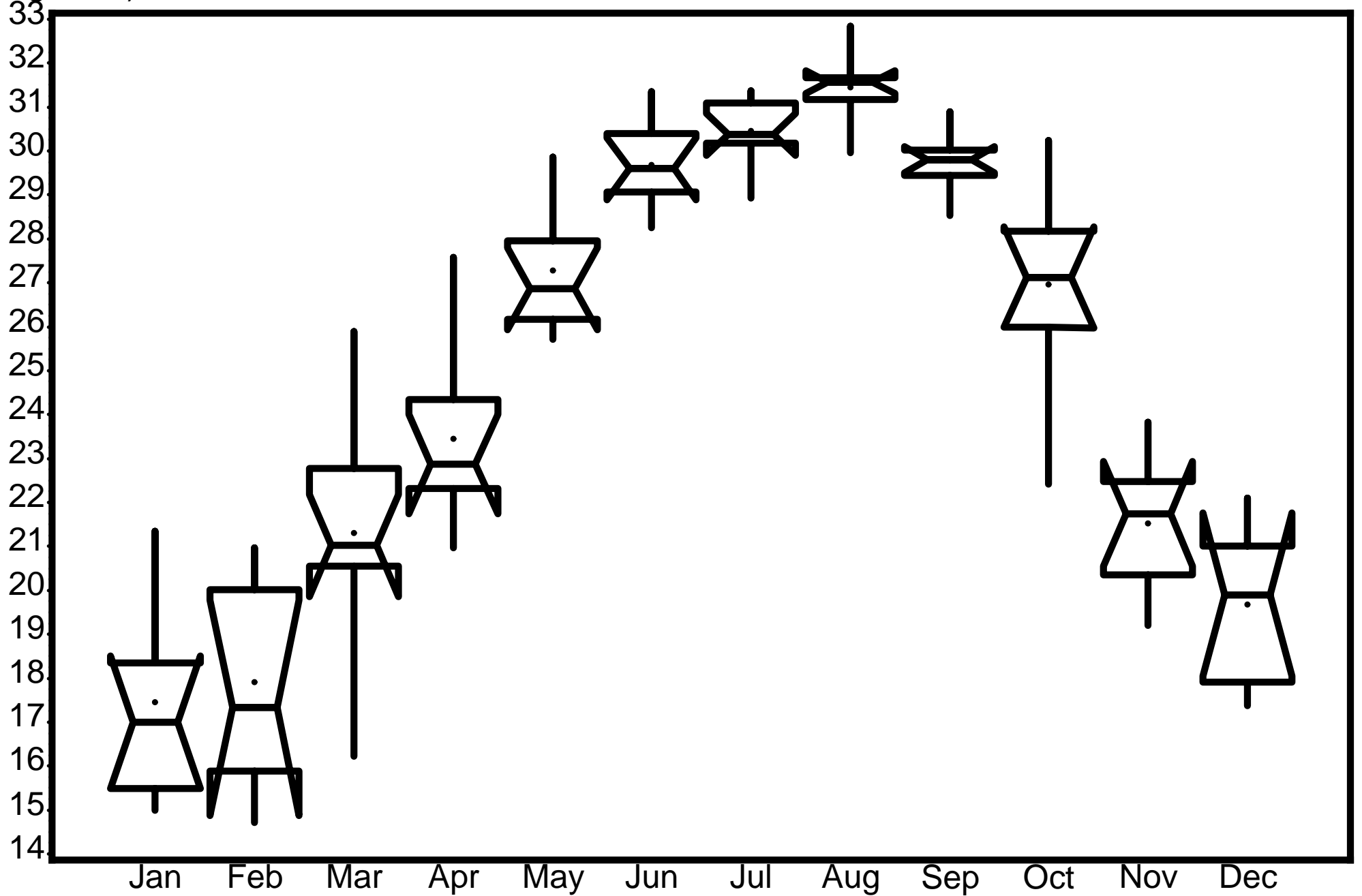
Adjusted
TEMP_C
(Degree C)



Bokeelia Trends Appendix - Display 143

Seasonal Univariate Statistics
for Surface Temperature in Bokeelia

TEMP_C
(Degree C)



Bokeelia Trends Appendix - Display 144

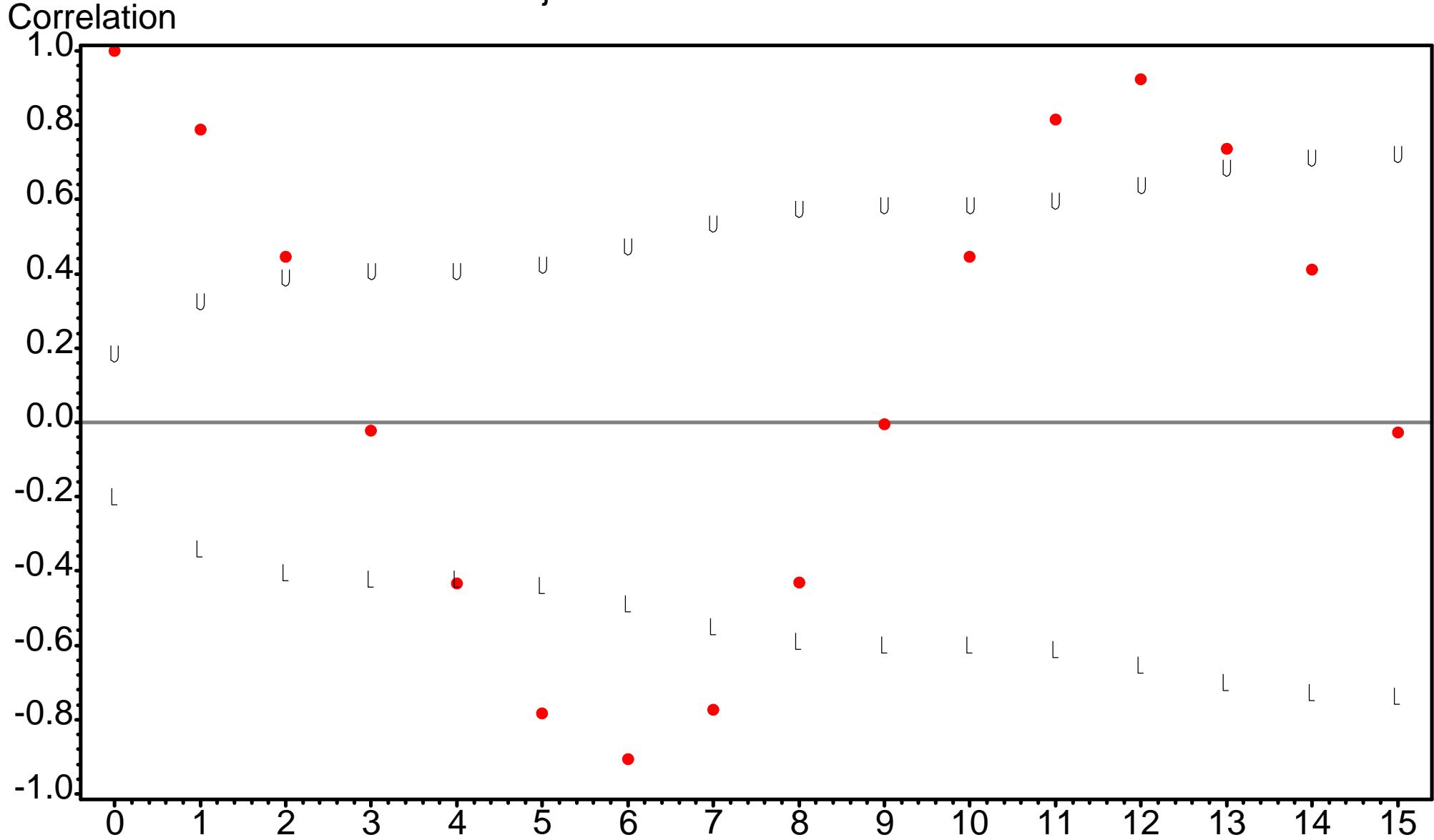
Autocorrelation Statistics for Surface Temperature in Bokeelia

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.787	0.167	0.333	-0.333
2	0.445	0.198	0.396	-0.396
3	-0.021	0.207	0.414	-0.414
4	-0.434	0.207	0.414	-0.414
5	-0.784	0.215	0.431	-0.431
6	-0.907	0.240	0.481	-0.481
7	-0.773	0.270	0.541	-0.541
8	-0.431	0.290	0.580	-0.580
9	-0.004	0.296	0.592	-0.592
10	0.446	0.296	0.592	-0.592
11	0.816	0.302	0.604	-0.604
12	0.923	0.322	0.644	-0.644
13	0.737	0.345	0.691	-0.691
14	0.411	0.360	0.719	-0.719
15	-0.027	0.364	0.728	-0.728

Bokeelia Trends Appendix - Display 145

Correlogram for Surface Temperature in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 146
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.042	0.53	0.53	0.103

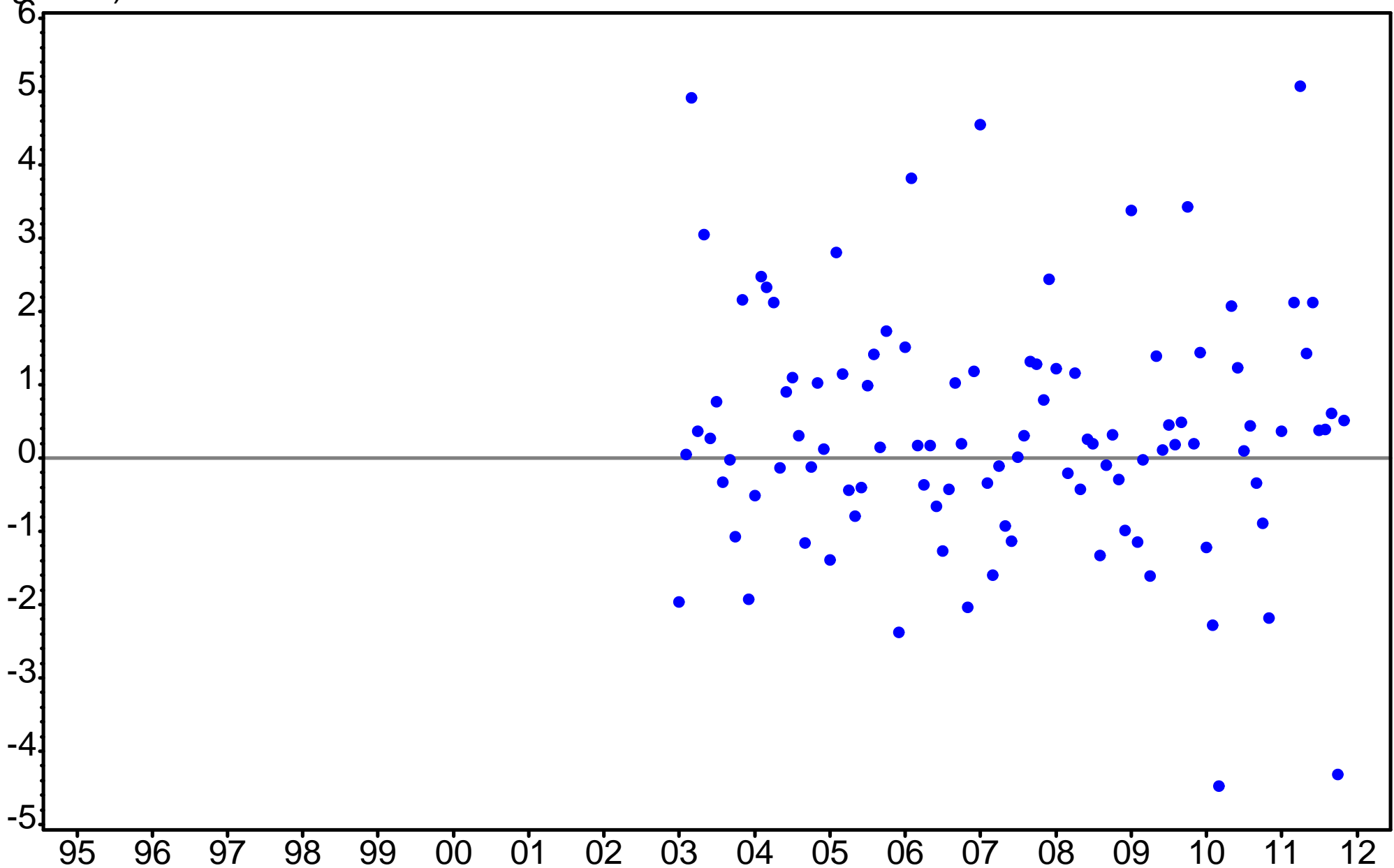
Bokeelia Trends Appendix - Display 147
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.041451	0.62746	0.61364	-0.040333

Bokeelia Trends Appendix - Display 148

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(Degree C)



Zero Reference Line Shown

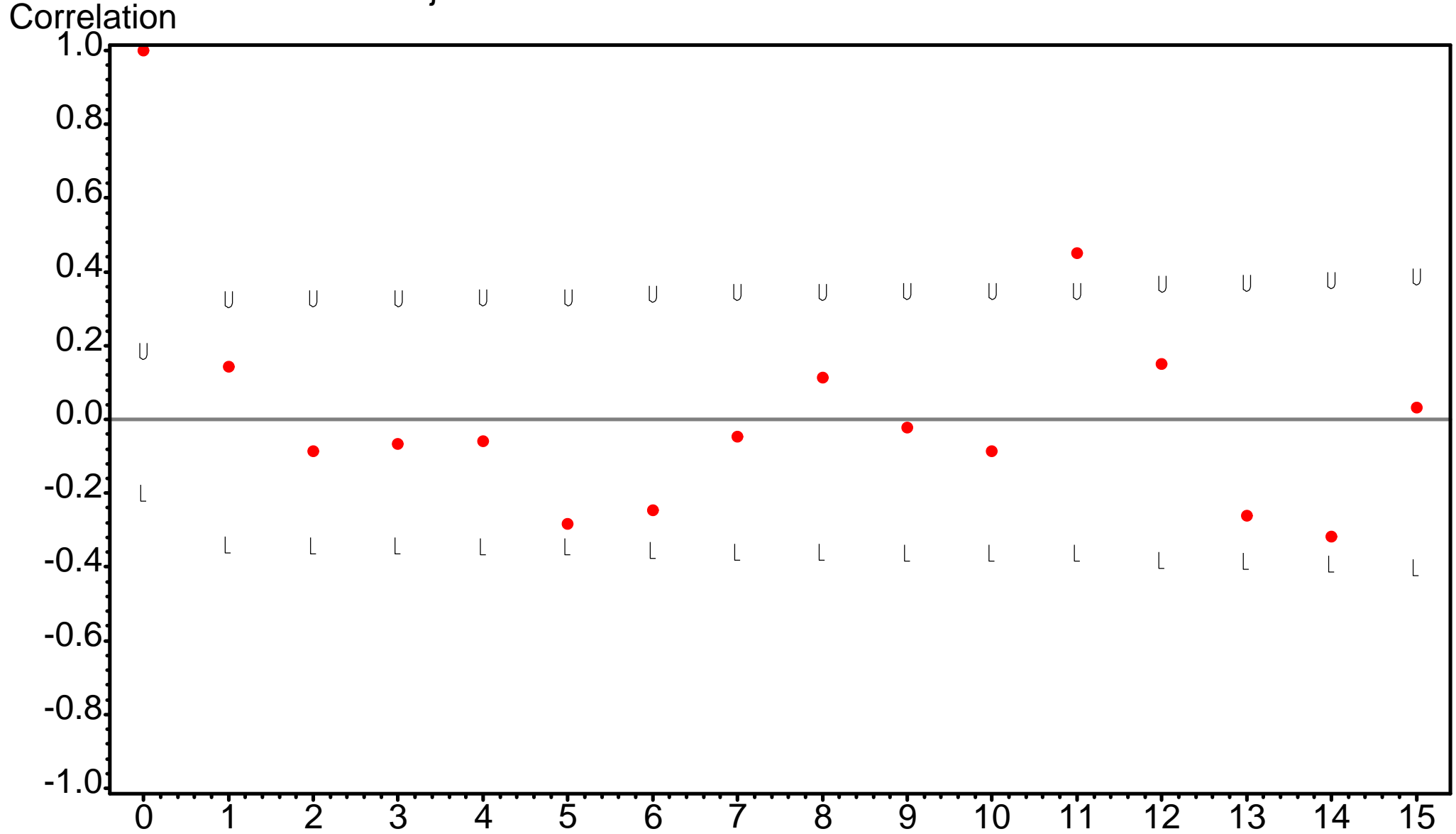
Bokeelia Trends Appendix - Display 149
Autocorrelation Statistics for Surface Temperature in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.142	0.167	0.333	-0.333
2	-0.087	0.168	0.336	-0.336
3	-0.067	0.168	0.336	-0.336
4	-0.058	0.168	0.337	-0.337
5	-0.282	0.169	0.337	-0.337
6	-0.246	0.173	0.346	-0.346
7	-0.046	0.176	0.352	-0.352
8	0.113	0.176	0.353	-0.353
9	-0.022	0.177	0.354	-0.354
10	-0.085	0.177	0.354	-0.354
11	0.450	0.177	0.355	-0.355
12	0.150	0.188	0.375	-0.375
13	-0.262	0.189	0.377	-0.377
14	-0.318	0.192	0.384	-0.384
15	0.033	0.197	0.394	-0.394

Bokeelia Trends Appendix - Display 150

Correlogram for Surface Temperature in Bokeelia

Adjusted for Seasonal Median and Detrended

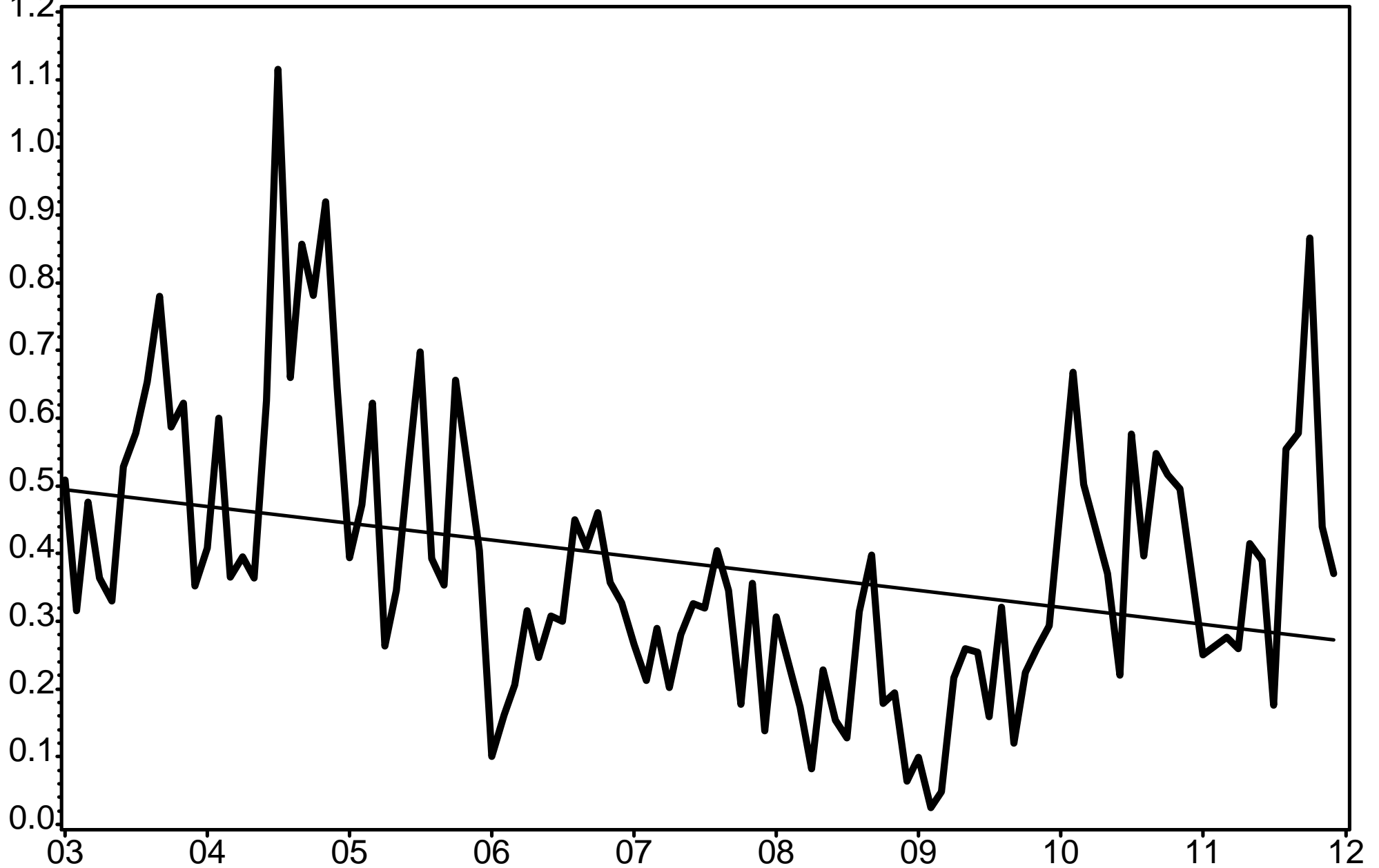


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 151

Monthly Data Time Series
for Surface Total Kjeldahl Nitrogen in Bokeelia
Not Adjusted for Seasonal Medians

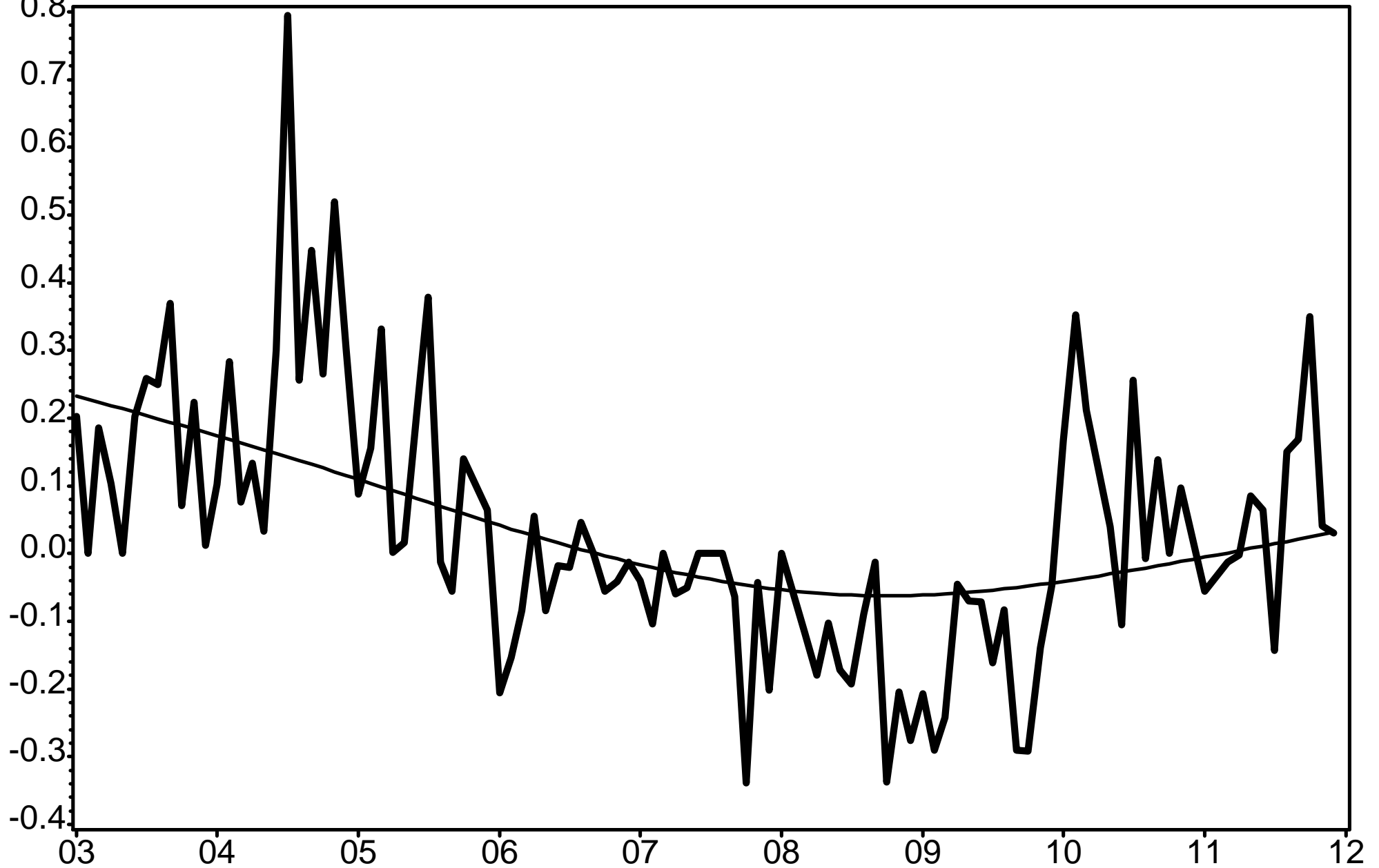
TKN_mgl
(mg/l)



Bokeelia Trends Appendix - Display 152

Monthly Data Time Series
for Surface Total Kjeldahl Nitrogen in Bokeelia
Adjusted for Seasonal Medians

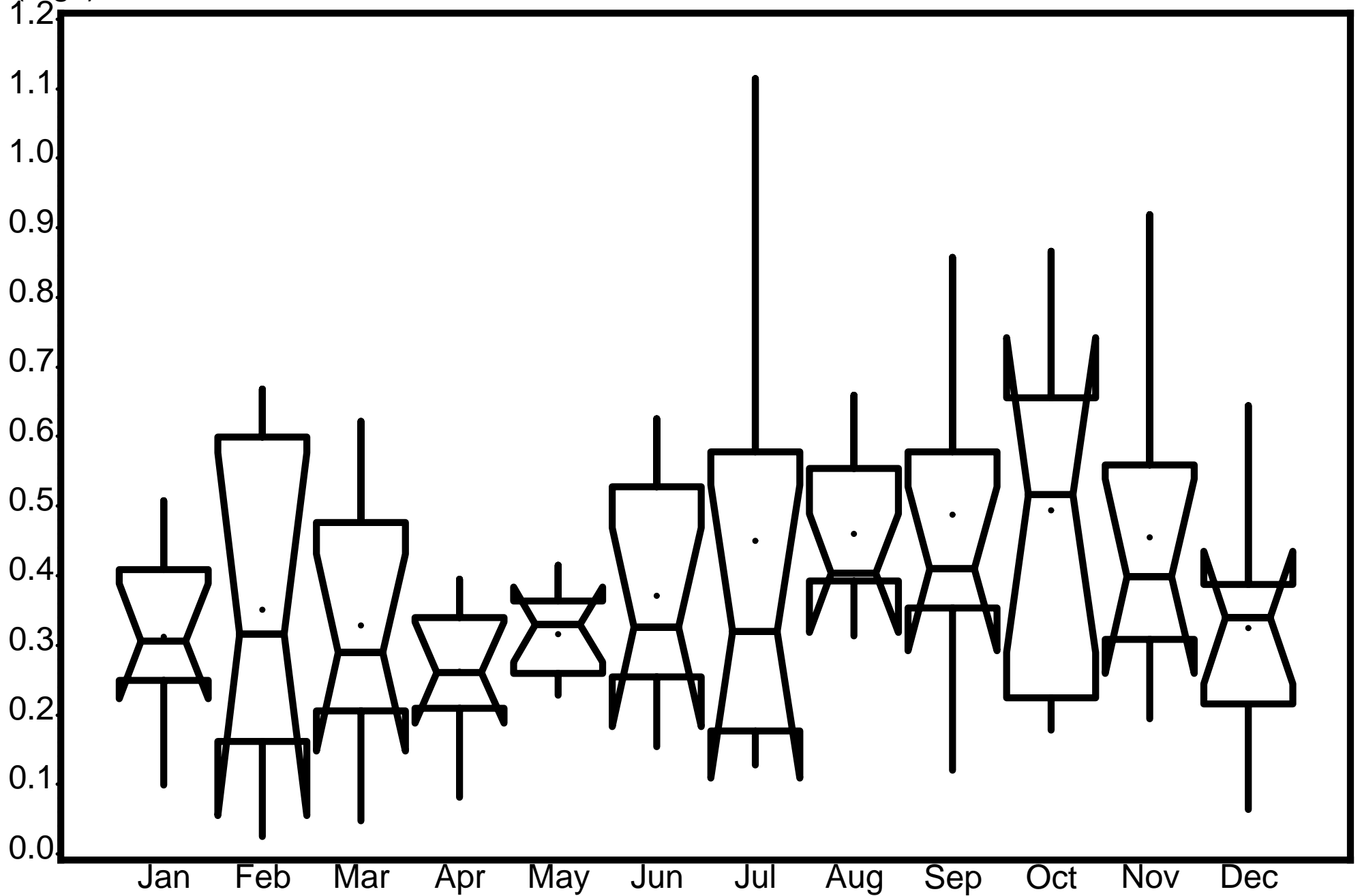
Adjusted
TKN_mgl
(mg/l)



Bokeelia Trends Appendix - Display 153

Seasonal Univariate Statistics
for Surface Total Kjeldahl Nitrogen in Bokeelia

TKN_mgl
(mg/l)

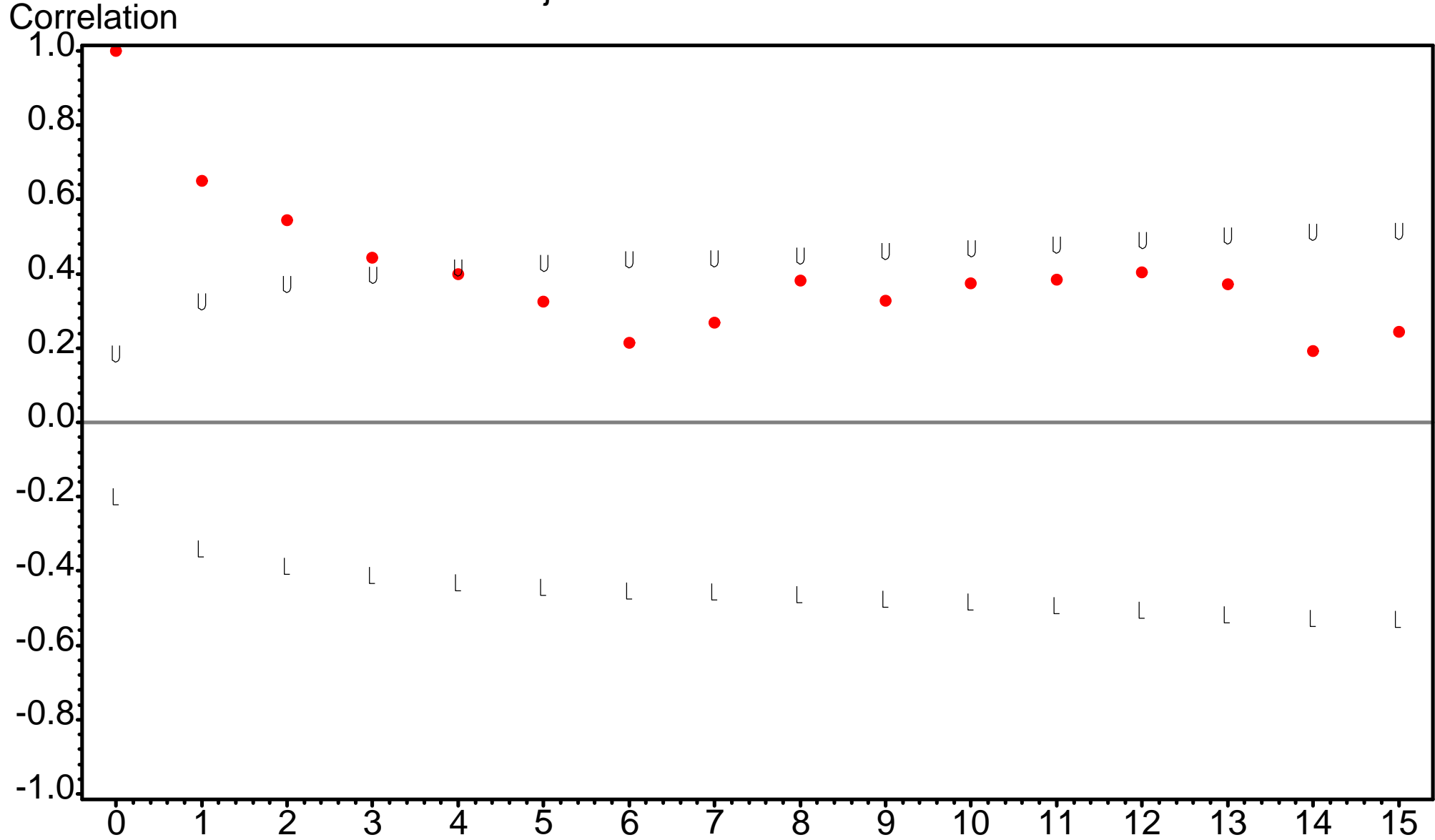


Bokeelia Trends Appendix - Display 154
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Bokeelia

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.651	0.167	0.333	-0.333
2	0.543	0.189	0.378	-0.378
3	0.442	0.203	0.405	-0.405
4	0.398	0.211	0.423	-0.423
5	0.325	0.218	0.437	-0.437
6	0.214	0.223	0.445	-0.445
7	0.269	0.225	0.449	-0.449
8	0.381	0.228	0.455	-0.455
9	0.327	0.233	0.467	-0.467
10	0.375	0.238	0.475	-0.475
11	0.383	0.243	0.486	-0.486
12	0.404	0.249	0.497	-0.497
13	0.372	0.255	0.509	-0.509
14	0.191	0.260	0.519	-0.519
15	0.243	0.261	0.522	-0.522

Bokeelia Trends Appendix - Display 155

Correlogram for Surface Total Kjeldahl Nitrogen in Bokeelia Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 156
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Bokeelia
Unadjusted for Seasonal Medians

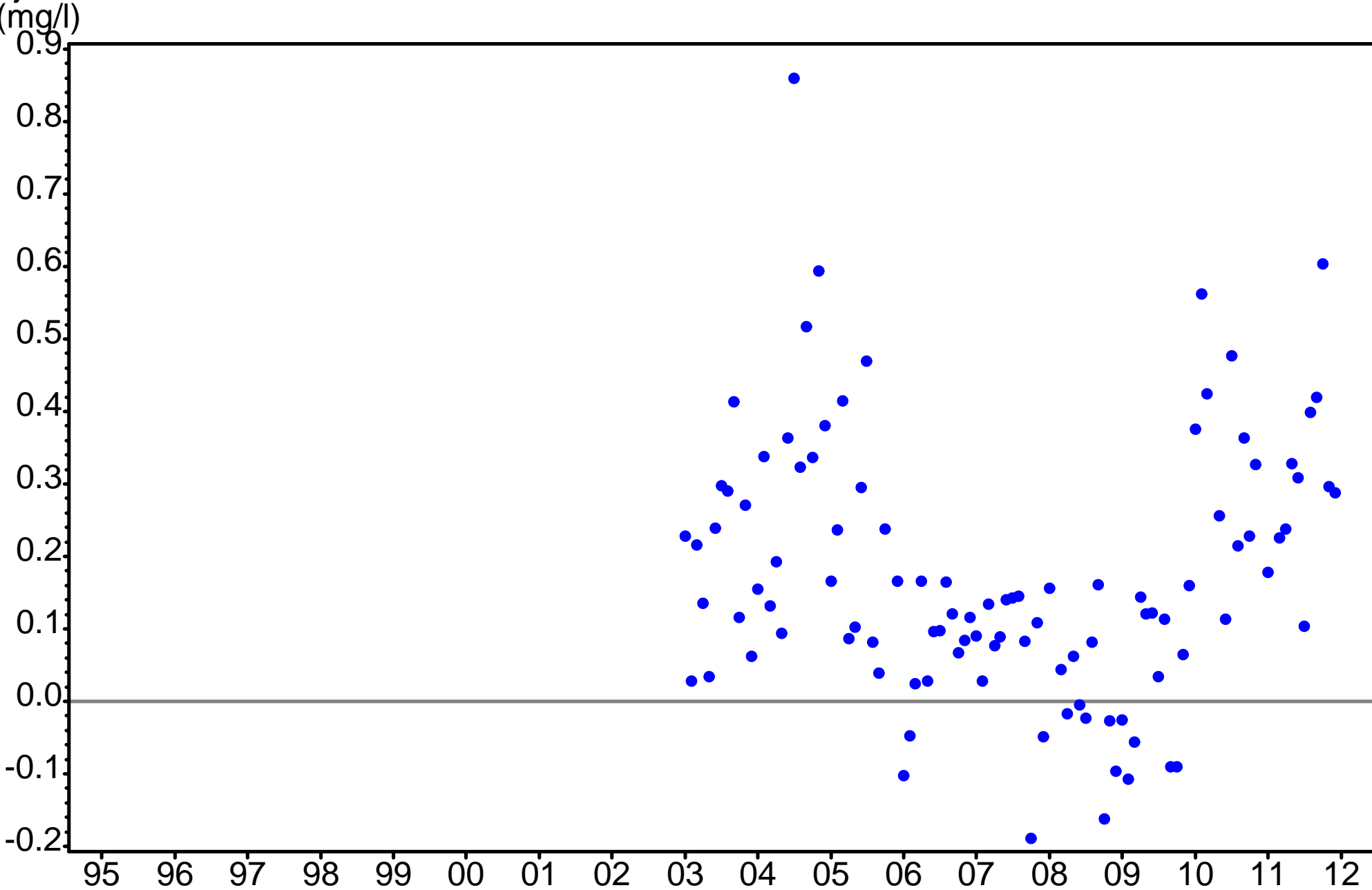
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.219	.001	.001	-0.025

Bokeelia Trends Appendix - Display 157
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.27227	.000692967	0.21339	-0.026

Bokeelia Trends Appendix - Display 158

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted
Bokeelia



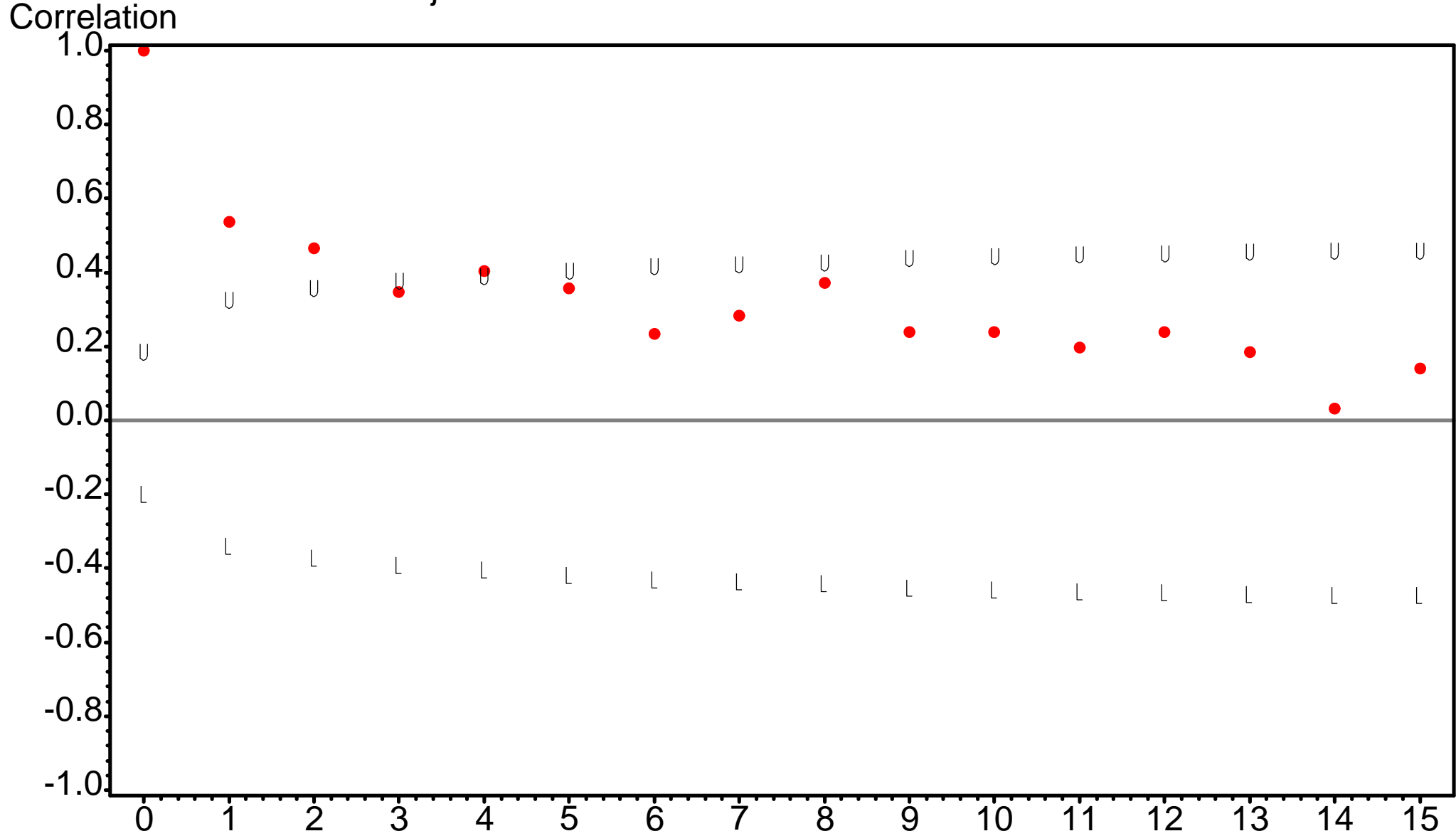
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 159
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.536	0.167	0.333	-0.333
2	0.465	0.182	0.364	-0.364
3	0.346	0.193	0.385	-0.385
4	0.404	0.198	0.397	-0.397
5	0.356	0.206	0.412	-0.412
6	0.233	0.211	0.423	-0.423
7	0.282	0.214	0.428	-0.428
8	0.373	0.217	0.434	-0.434
9	0.238	0.223	0.446	-0.446
10	0.238	0.225	0.451	-0.451
11	0.198	0.228	0.455	-0.455
12	0.238	0.229	0.459	-0.459
13	0.184	0.232	0.463	-0.463
14	0.032	0.233	0.466	-0.466
15	0.141	0.233	0.466	-0.466

Bokeelia Trends Appendix - Display 160

Correlogram for Surface Total Kjeldahl Nitrogen in Bokeelia Adjusted for Seasonal Median and Detrended

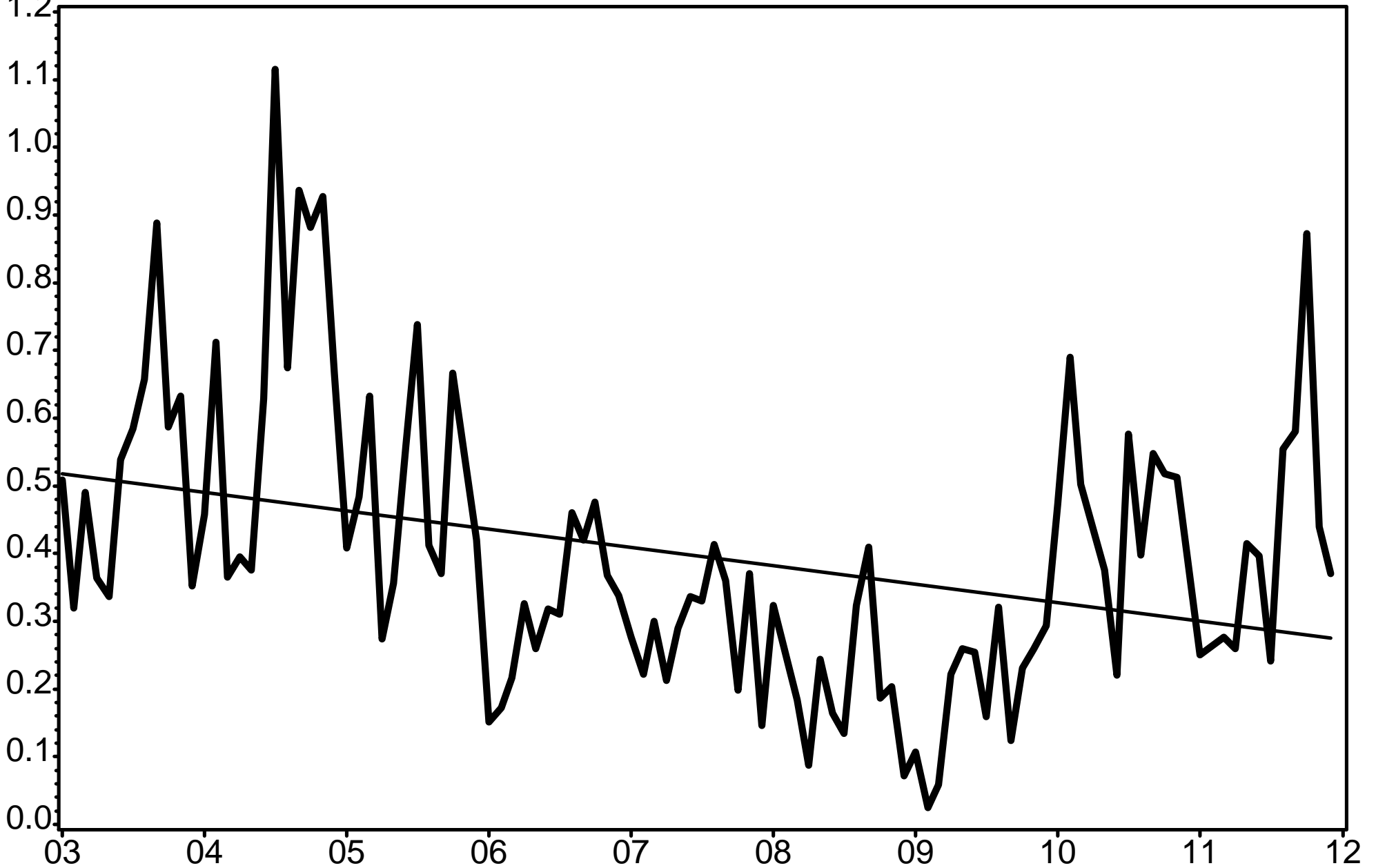


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 161

Monthly Data Time Series
for Surface Total Nitrogen in Bokeelia
Not Adjusted for Seasonal Medians

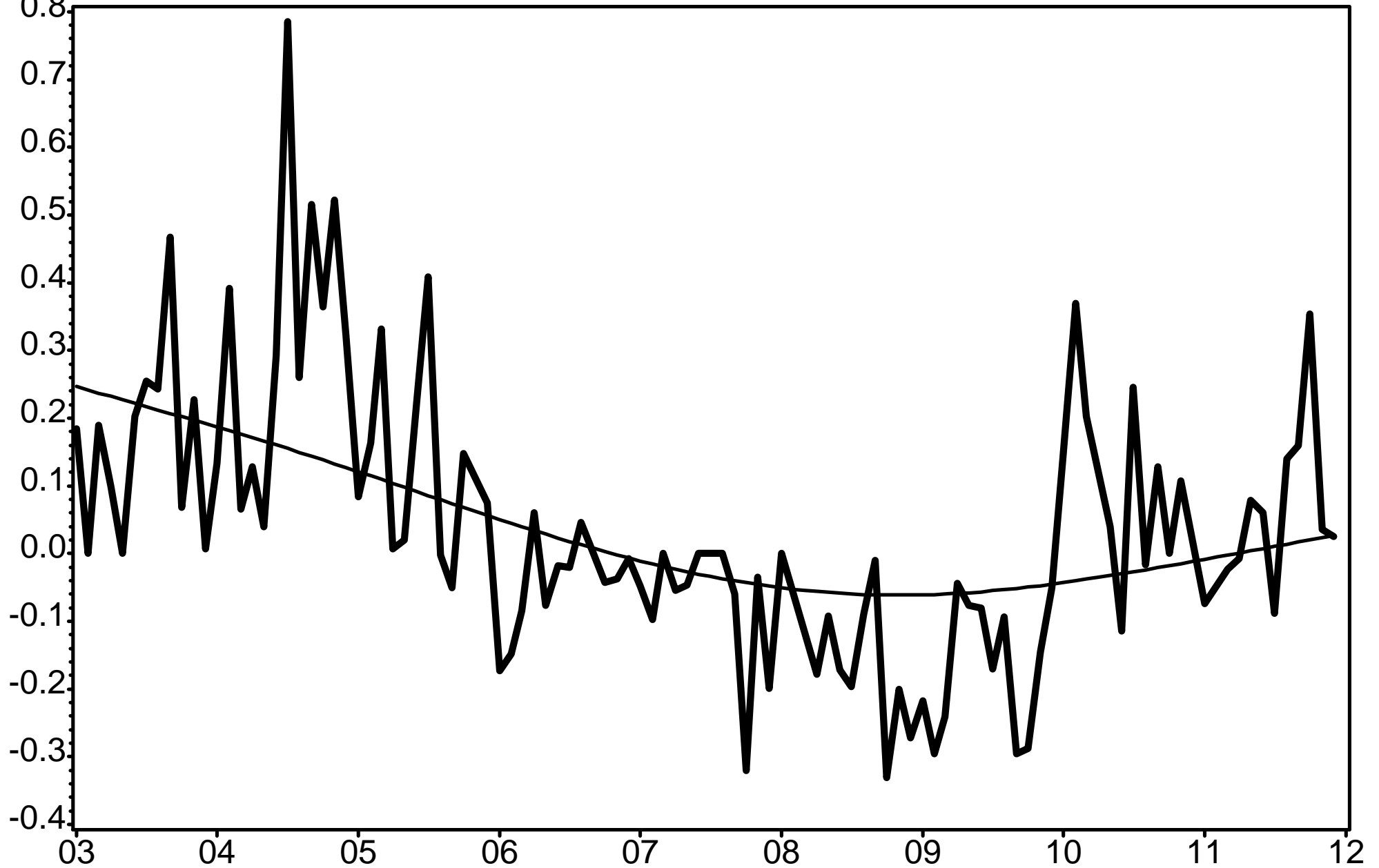
TN_mgl
(mg/l)



Bokeelia Trends Appendix - Display 162

Monthly Data Time Series
for Surface Total Nitrogen in Bokeelia
Adjusted for Seasonal Medians

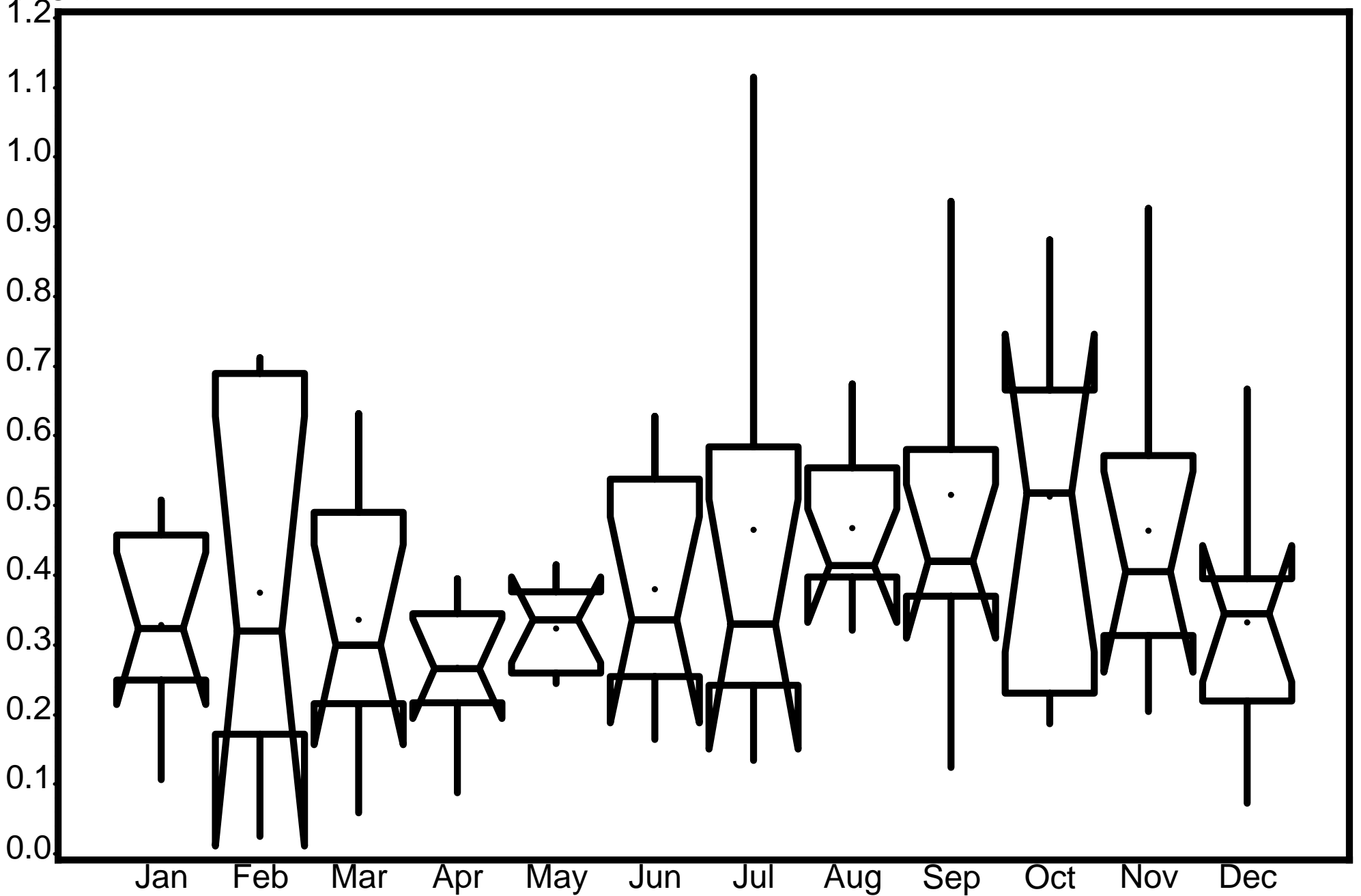
Adjusted
TN_mgl
(mg/l)



Bokeelia Trends Appendix - Display 163

Seasonal Univariate Statistics
for Surface Total Nitrogen in Bokeelia

TN_mgl
(mg/l)



Bokeelia Trends Appendix - Display 164

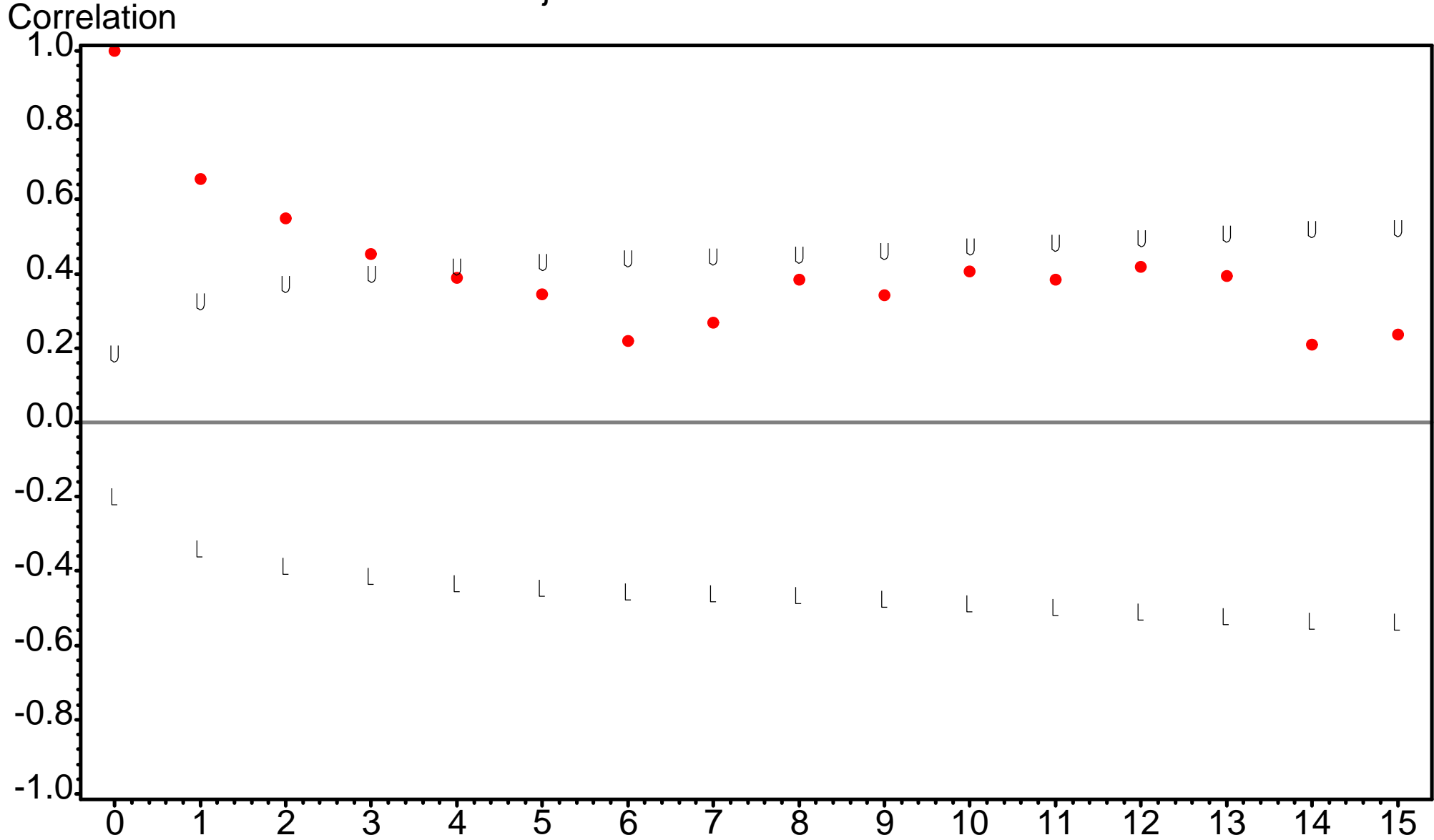
Autocorrelation Statistics for Surface Total Nitrogen in Bokeelia

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.656	0.167	0.333	-0.333
2	0.548	0.189	0.378	-0.378
3	0.453	0.203	0.407	-0.407
4	0.389	0.212	0.425	-0.425
5	0.344	0.219	0.438	-0.438
6	0.219	0.224	0.448	-0.448
7	0.268	0.226	0.452	-0.452
8	0.385	0.229	0.458	-0.458
9	0.342	0.235	0.469	-0.469
10	0.406	0.239	0.479	-0.479
11	0.384	0.246	0.491	-0.491
12	0.418	0.251	0.502	-0.502
13	0.393	0.257	0.515	-0.515
14	0.210	0.263	0.526	-0.526
15	0.236	0.264	0.529	-0.529

Bokeelia Trends Appendix - Display 165

Correlogram for Surface Total Nitrogen in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 166
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.224	.001	.001	-0.026

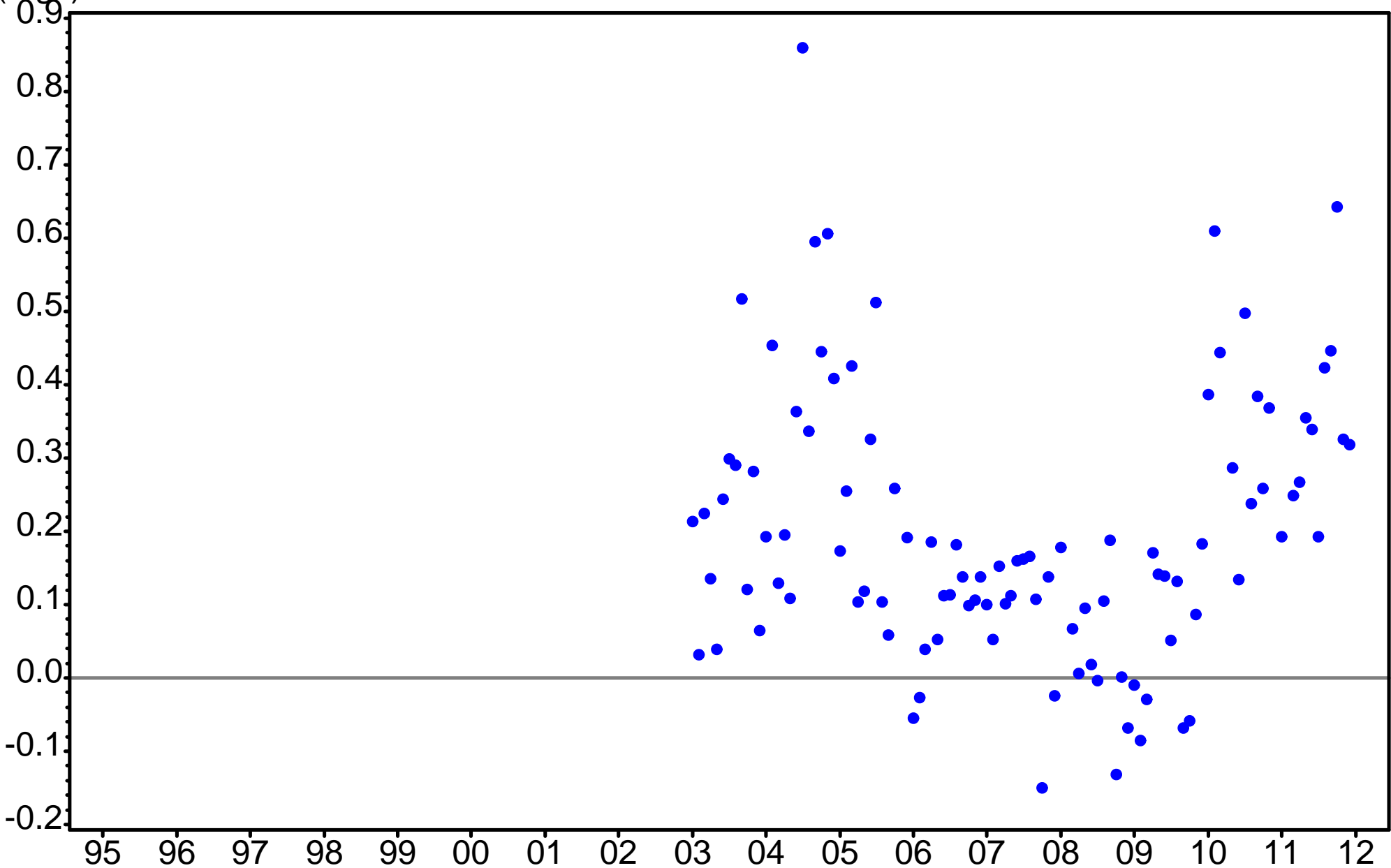
Bokeelia Trends Appendix - Display 167
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29771	.000202461	0.18186	-0.0296

Bokeelia Trends Appendix - Display 168

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(mg/l)



Zero Reference Line Shown

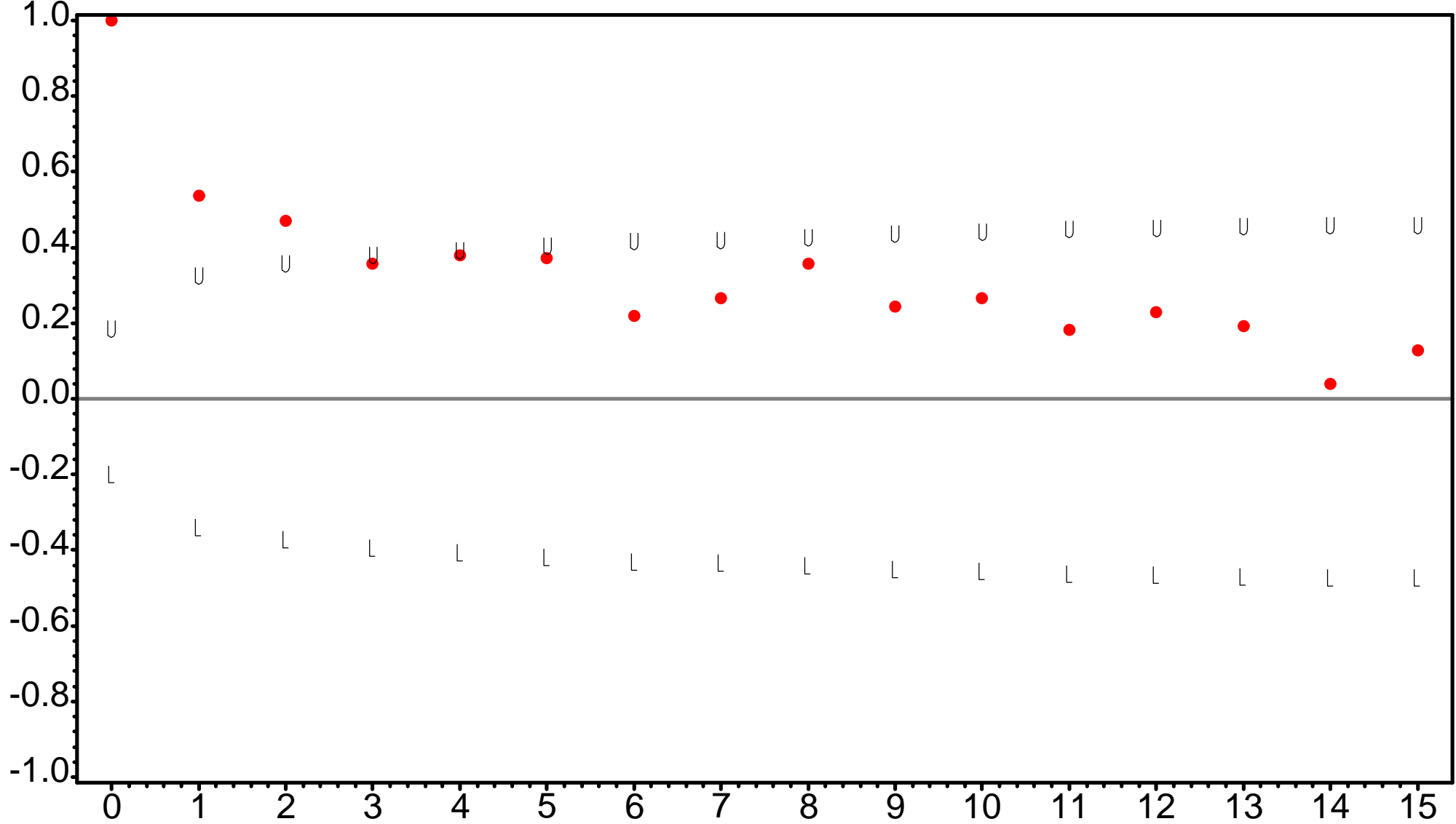
Bokeelia Trends Appendix - Display 169
Autocorrelation Statistics for Surface Total Nitrogen in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.536	0.167	0.333	-0.333
2	0.471	0.182	0.364	-0.364
3	0.357	0.193	0.386	-0.386
4	0.379	0.199	0.398	-0.398
5	0.371	0.206	0.411	-0.411
6	0.220	0.212	0.423	-0.423
7	0.265	0.214	0.427	-0.427
8	0.358	0.217	0.434	-0.434
9	0.245	0.222	0.444	-0.444
10	0.265	0.225	0.449	-0.449
11	0.182	0.228	0.455	-0.455
12	0.230	0.229	0.458	-0.458
13	0.192	0.231	0.462	-0.462
14	0.040	0.232	0.465	-0.465
15	0.127	0.233	0.465	-0.465

Bokeelia Trends Appendix - Display 170

Correlogram for Surface Total Nitrogen in Bokeelia Adjusted for Seasonal Median and Detrended

Correlation



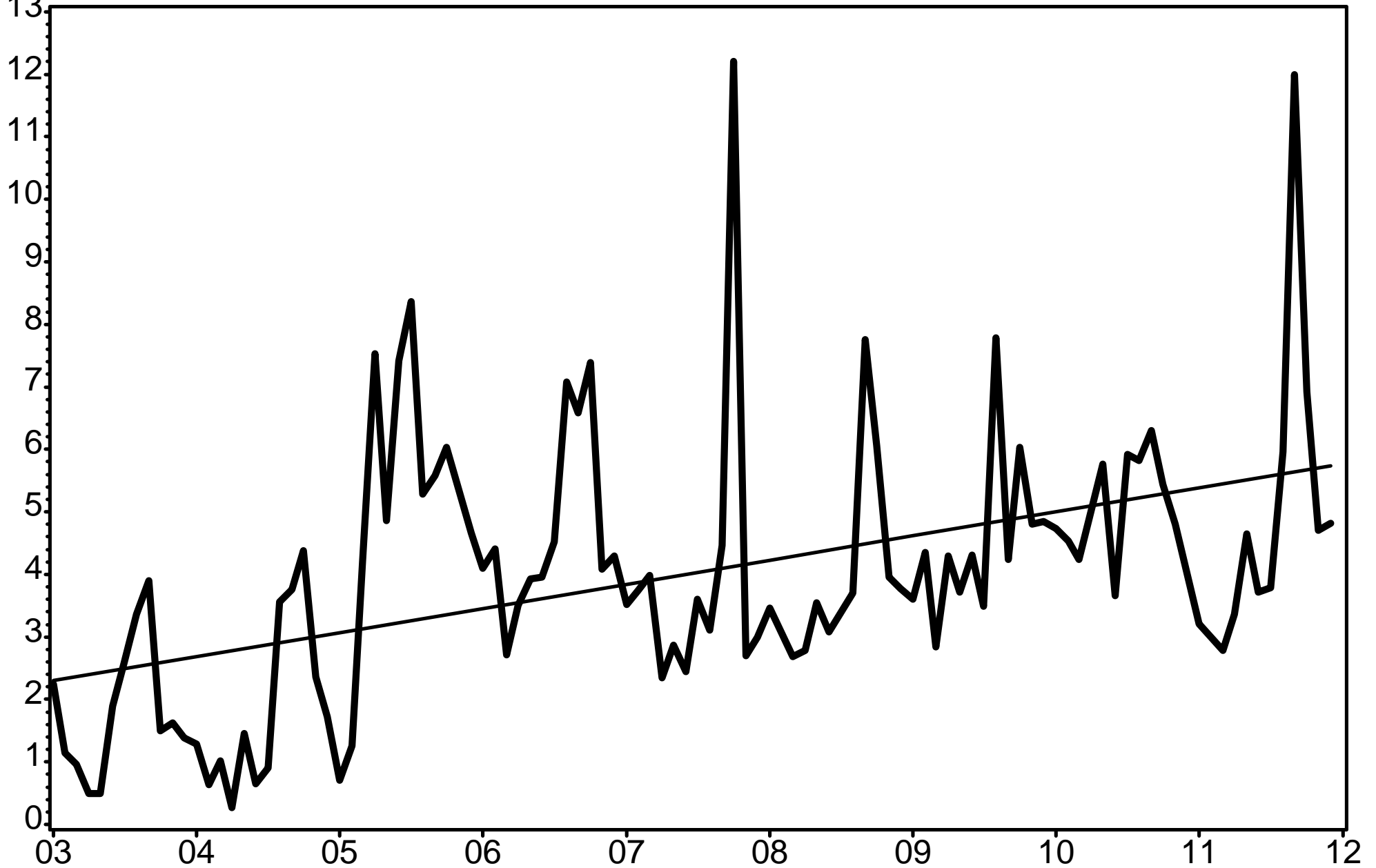
Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 171

Monthly Data Time Series
for Surface Total Organic Carbon in Bokeelia
Not Adjusted for Seasonal Medians

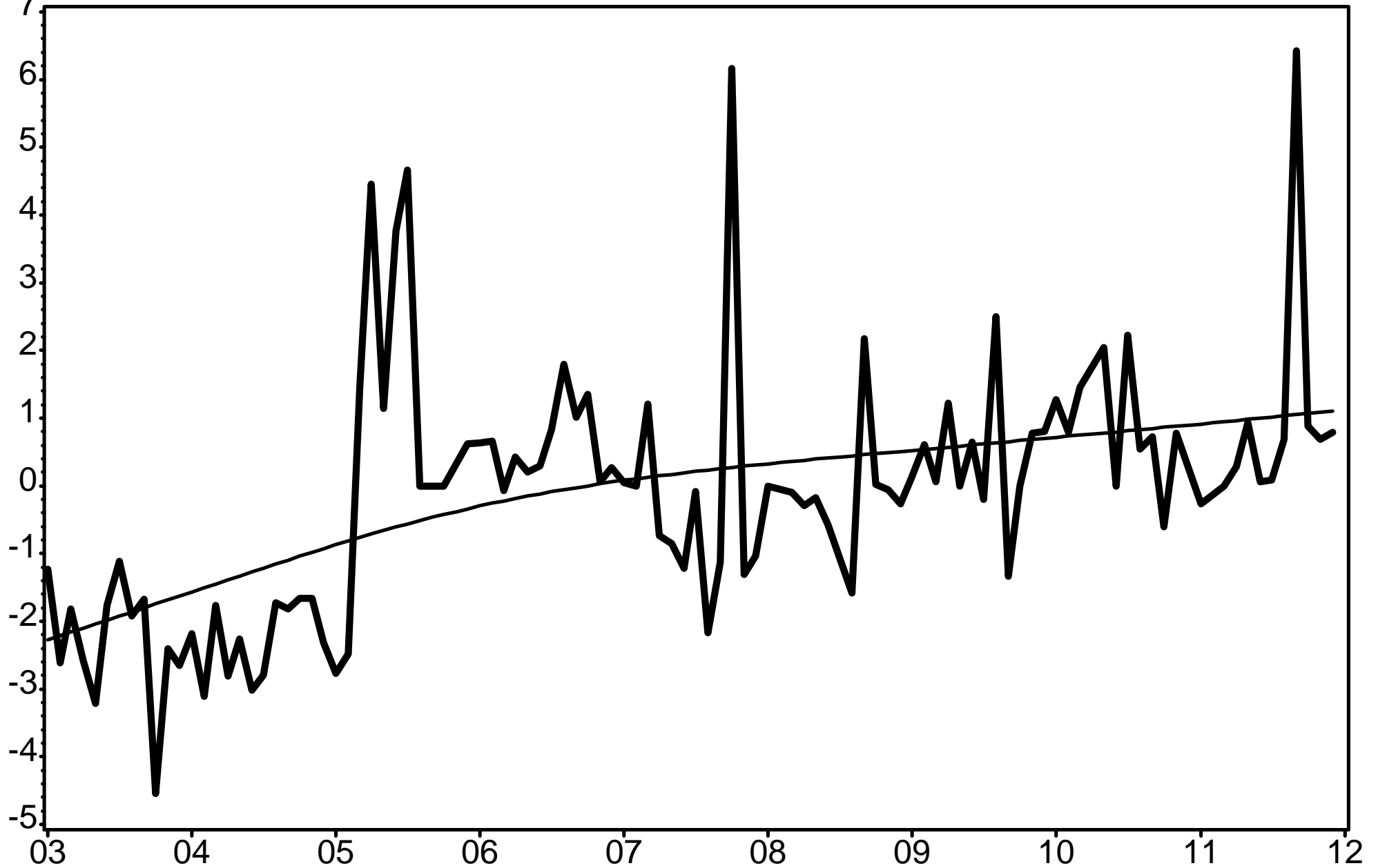
TOC_mgl
(mg/l)



Bokeelia Trends Appendix - Display 172

Monthly Data Time Series
for Surface Total Organic Carbon in Bokeelia
Adjusted for Seasonal Medians

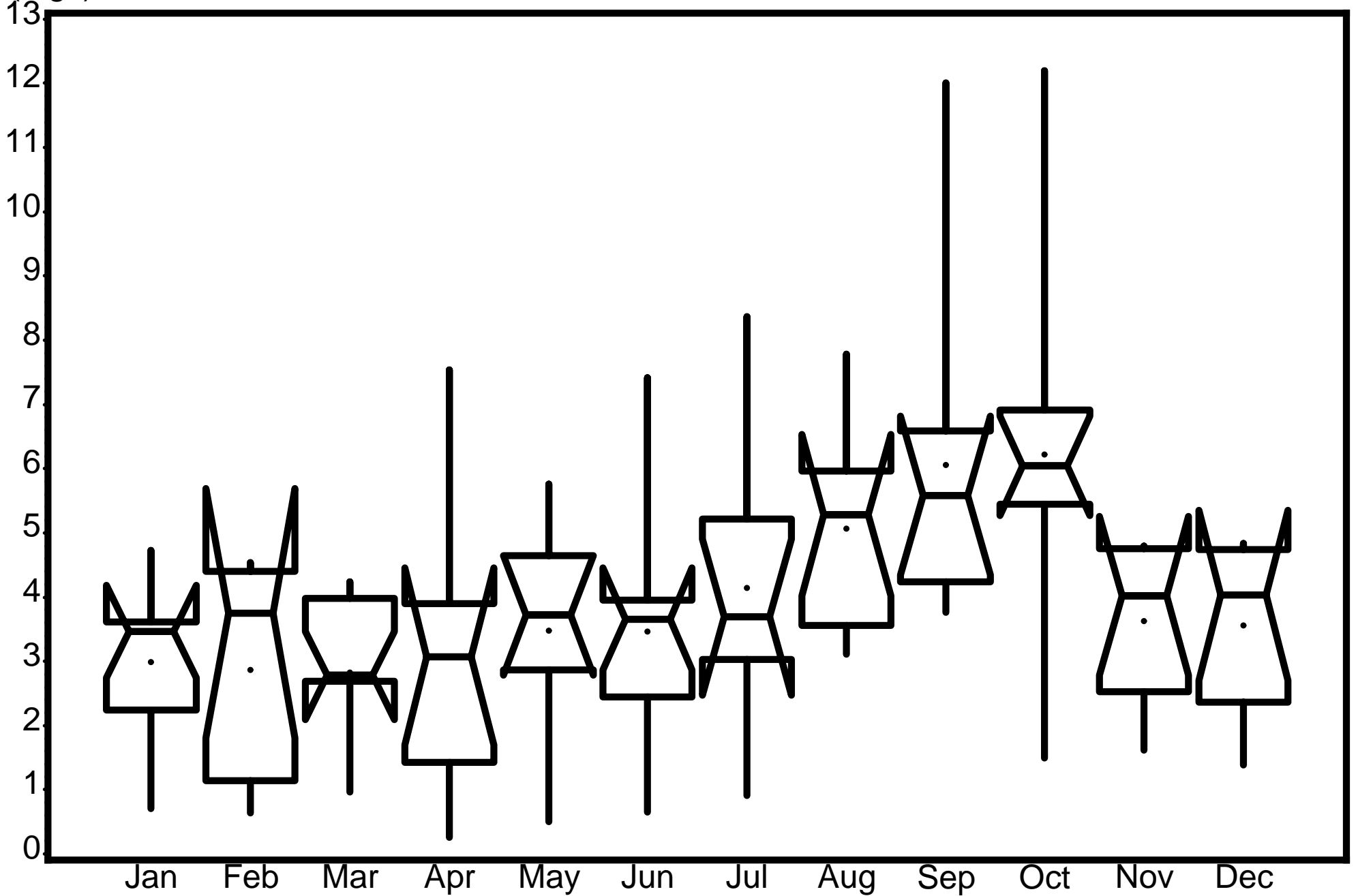
Adjusted
TOC_mgl
(mg/l)



Bokeelia Trends Appendix - Display 173

Seasonal Univariate Statistics
for Surface Total Organic Carbon in Bokeelia

TOC_mgl
(mg/l)

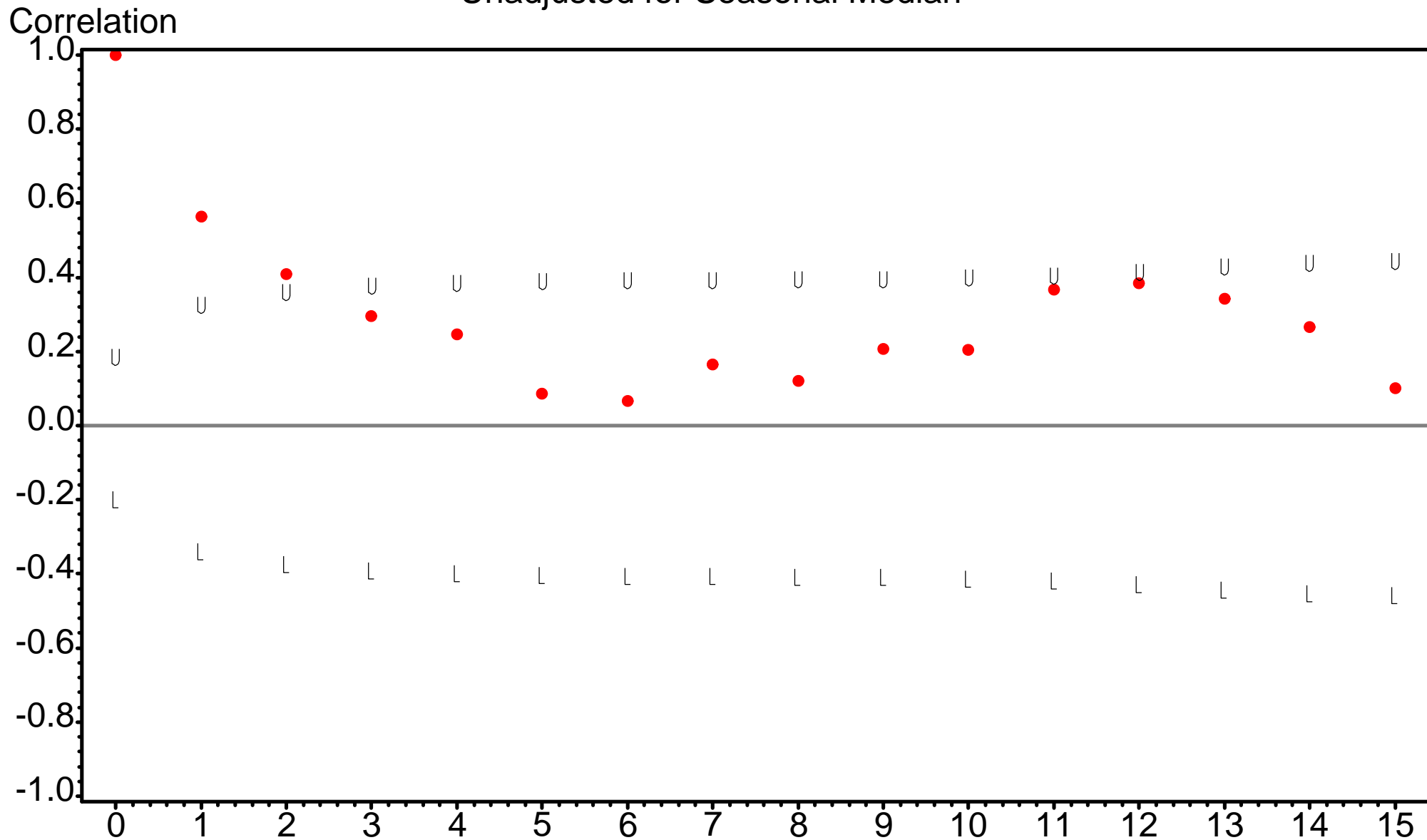


Bokeelia Trends Appendix - Display 174
Autocorrelation Statistics for Surface Total Organic Carbon in Bokeelia

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.563	0.167	0.333	-0.333
2	0.409	0.183	0.367	-0.367
3	0.295	0.192	0.383	-0.383
4	0.246	0.196	0.392	-0.392
5	0.086	0.199	0.397	-0.397
6	0.067	0.199	0.398	-0.398
7	0.164	0.199	0.399	-0.399
8	0.120	0.200	0.401	-0.401
9	0.208	0.201	0.402	-0.402
10	0.205	0.203	0.406	-0.406
11	0.366	0.205	0.410	-0.410
12	0.385	0.211	0.422	-0.422
13	0.343	0.217	0.435	-0.435
14	0.265	0.222	0.445	-0.445
15	0.102	0.225	0.451	-0.451

Bokeelia Trends Appendix - Display 175

Correlogram for Surface Total Organic Carbon in Bokeelia Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 176
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Bokeelia
Unadjusted for Seasonal Medians

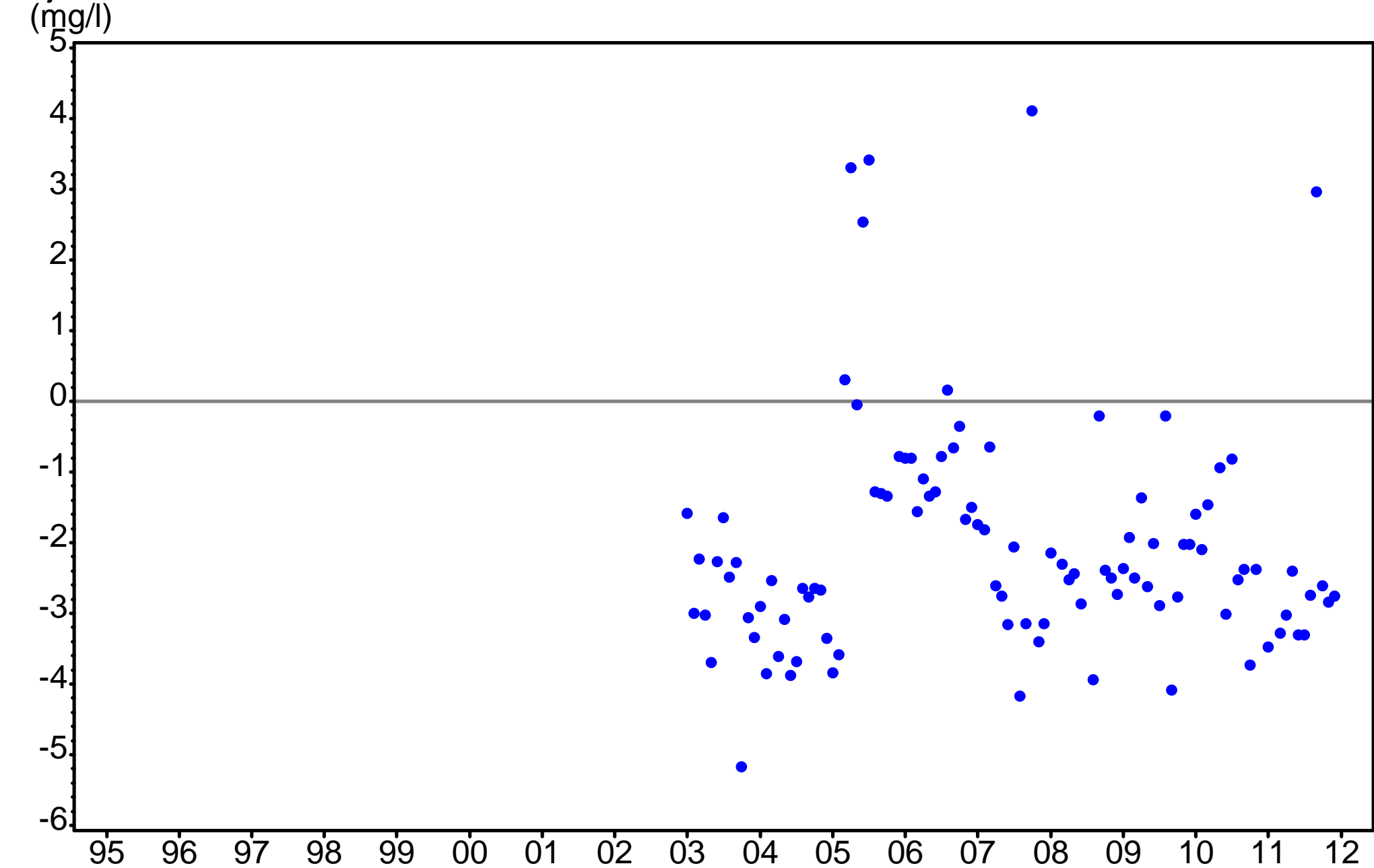
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.353	0	0	0.383

Bokeelia Trends Appendix - Display 177
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.42338	.000000119	0.041331	0.3575

Bokeelia Trends Appendix - Display 178

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted Bokeelia



Zero Reference Line Shown

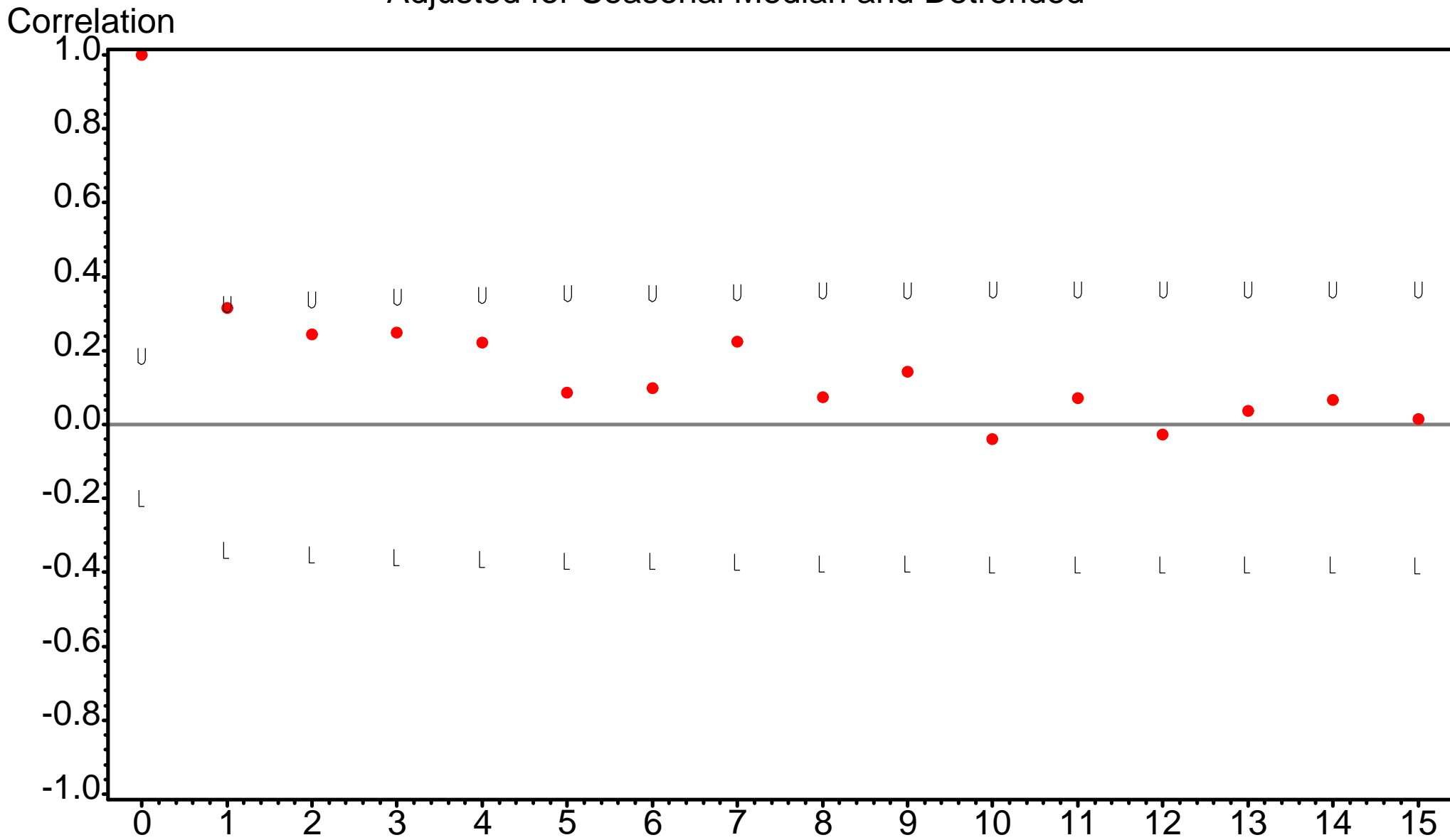
Bokeelia Trends Appendix - Display 179
Autocorrelation Statistics for Surface Total Organic Carbon in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.316	0.167	0.333	-0.333
2	0.245	0.172	0.344	-0.344
3	0.249	0.175	0.351	-0.351
4	0.221	0.179	0.357	-0.357
5	0.087	0.181	0.362	-0.362
6	0.099	0.181	0.363	-0.363
7	0.224	0.182	0.364	-0.364
8	0.073	0.185	0.369	-0.369
9	0.142	0.185	0.370	-0.370
10	-0.040	0.186	0.372	-0.372
11	0.071	0.186	0.372	-0.372
12	-0.027	0.186	0.372	-0.372
13	0.036	0.186	0.372	-0.372
14	0.067	0.186	0.372	-0.372
15	0.014	0.186	0.373	-0.373

Bokeelia Trends Appendix - Display 180

Correlogram for Surface Total Organic Carbon in Bokeelia

Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

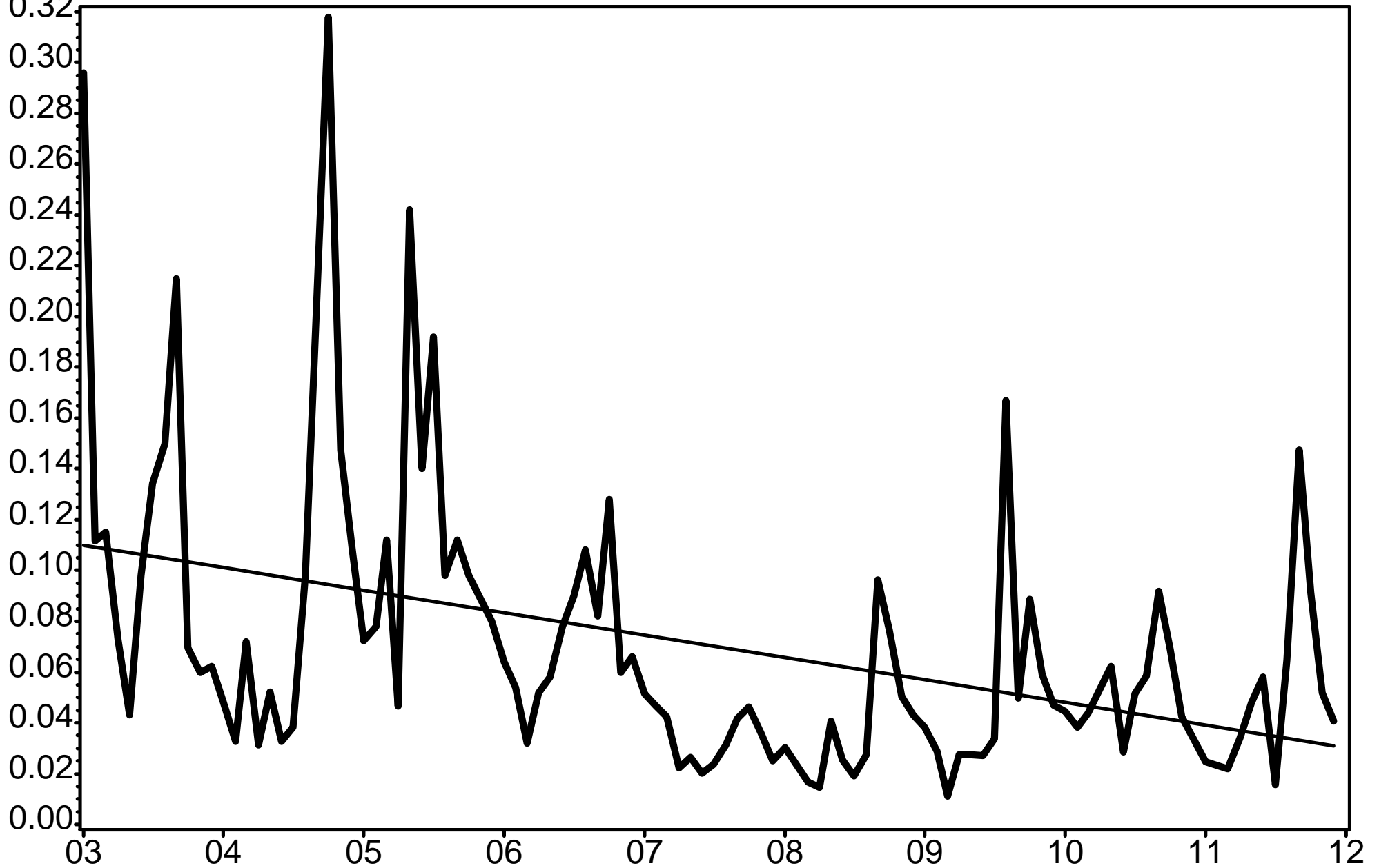
Bokeelia Trends Appendix - Display 181

Monthly Data Time Series

for Surface Total Phosphorous in Bokeelia

Not Adjusted for Seasonal Medians

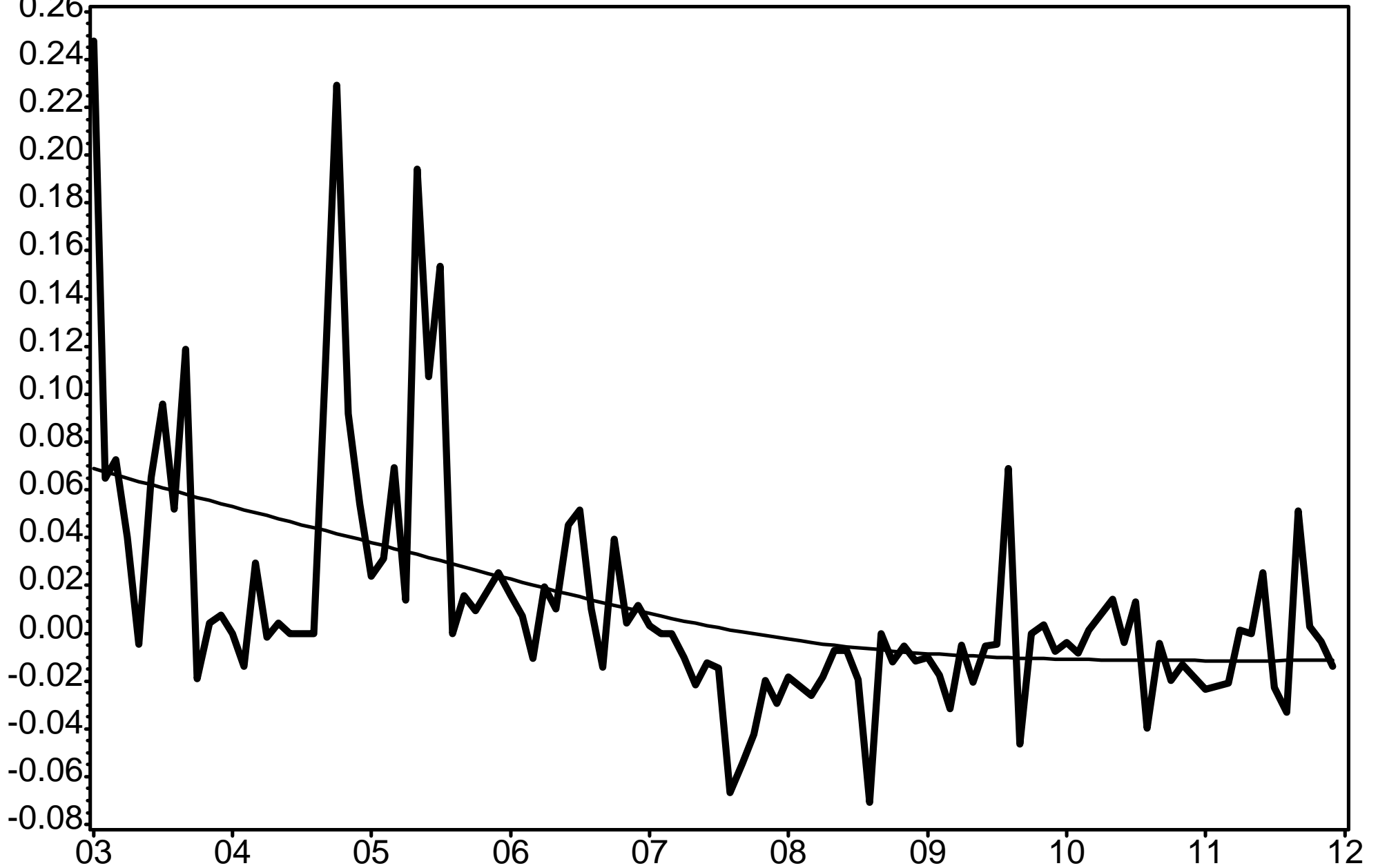
TPO4_mgl
(mg/l)



Bokeelia Trends Appendix - Display 182

Monthly Data Time Series
for Surface Total Phosphorous in Bokeelia
Adjusted for Seasonal Medians

Adjusted
TPO4_mgl
(mg/l)

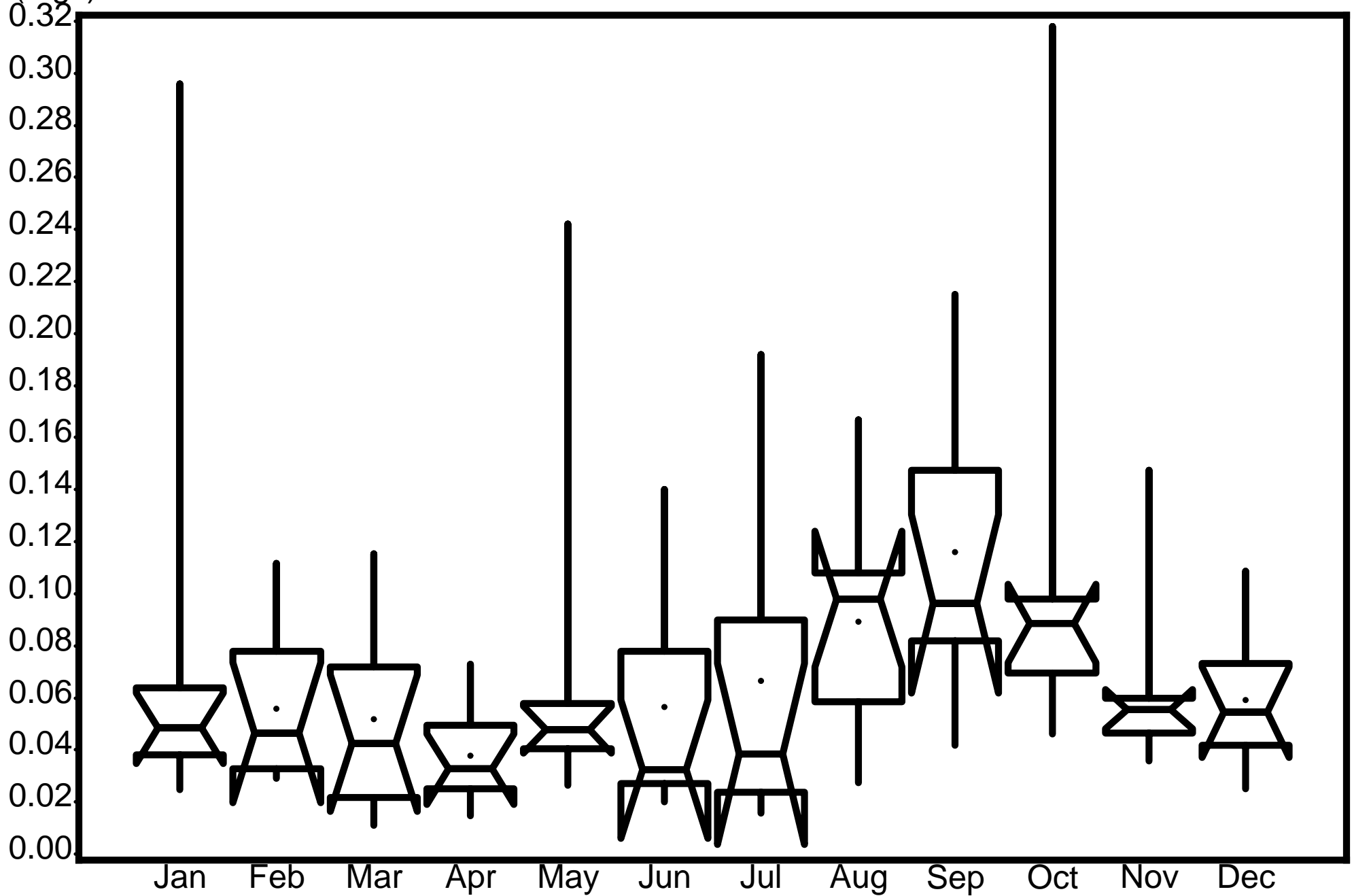


Bokeelia Trends Appendix - Display 183

Seasonal Univariate Statistics

for Surface Total Phosphorous in Bokeelia

TPO4_mgl
(mg/l)



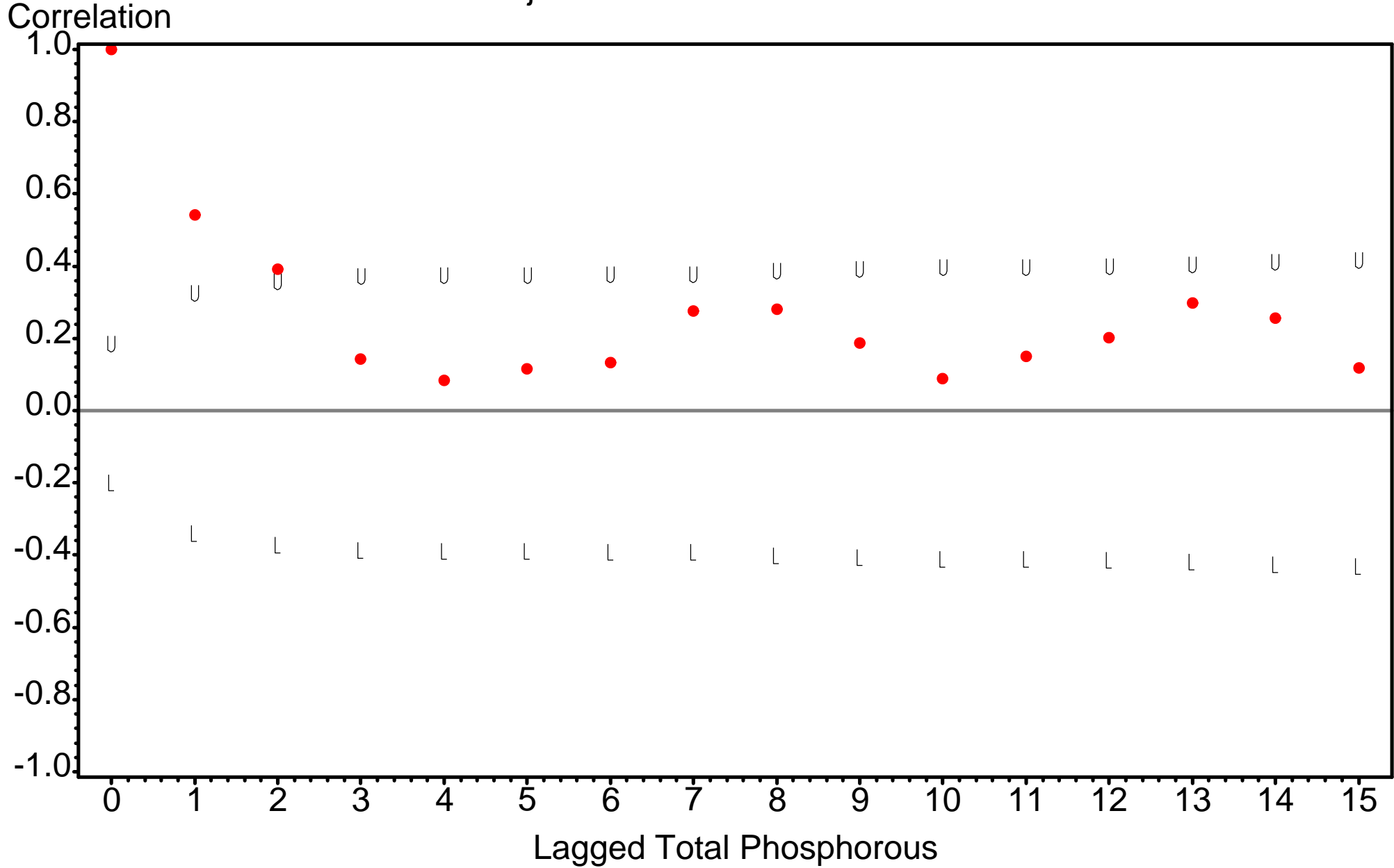
Bokeelia Trends Appendix - Display 184
Autocorrelation Statistics for Surface Total Phosphorous in Bokeelia

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.542	0.167	0.333	-0.333
2	0.392	0.182	0.364	-0.364
3	0.143	0.190	0.380	-0.380
4	0.084	0.191	0.382	-0.382
5	0.116	0.191	0.382	-0.382
6	0.134	0.192	0.384	-0.384
7	0.276	0.193	0.385	-0.385
8	0.281	0.196	0.393	-0.393
9	0.186	0.200	0.400	-0.400
10	0.088	0.202	0.403	-0.403
11	0.149	0.202	0.404	-0.404
12	0.201	0.203	0.406	-0.406
13	0.297	0.205	0.410	-0.410
14	0.256	0.209	0.418	-0.418
15	0.119	0.212	0.423	-0.423

Bokeelia Trends Appendix - Display 185

Correlogram for Surface Total Phosphorous in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 186
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.286	0	0	-.006

Bokeelia Trends Appendix - Display 187
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.36387	.000005321	0.059852	-.006

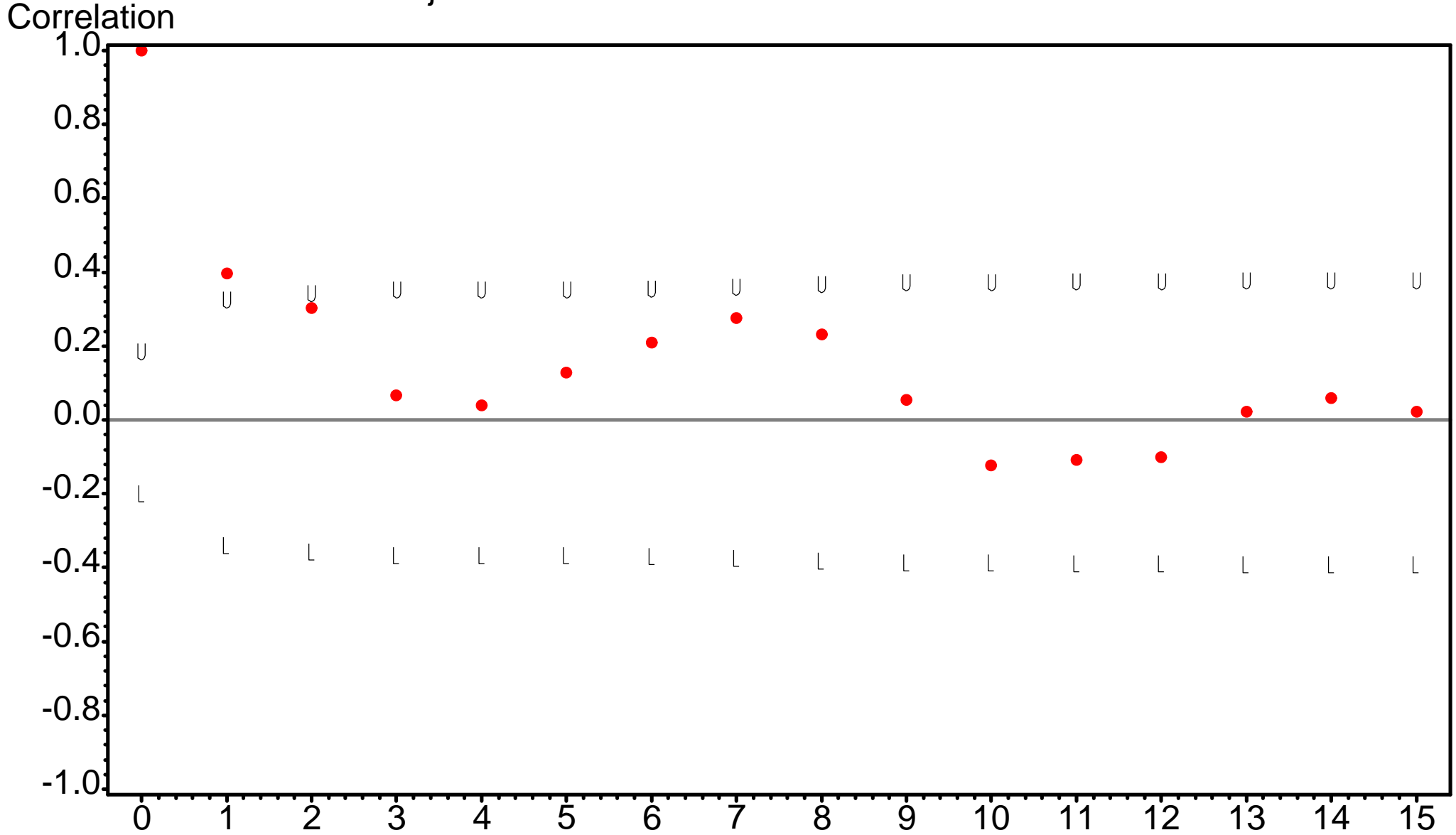
Bokeelia Trends Appendix - Display 189
Autocorrelation Statistics for Surface Total Phosphorous in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.396	0.167	0.333	-0.333
2	0.302	0.175	0.350	-0.350
3	0.066	0.180	0.360	-0.360
4	0.040	0.180	0.360	-0.360
5	0.129	0.180	0.360	-0.360
6	0.210	0.181	0.362	-0.362
7	0.275	0.183	0.367	-0.367
8	0.232	0.187	0.374	-0.374
9	0.053	0.190	0.379	-0.379
10	-0.123	0.190	0.380	-0.380
11	-0.108	0.191	0.381	-0.381
12	-0.101	0.191	0.382	-0.382
13	0.022	0.192	0.383	-0.383
14	0.059	0.192	0.383	-0.383
15	0.021	0.192	0.384	-0.384

Bokeelia Trends Appendix - Display 190

Correlogram for Surface Total Phosphorous in Bokeelia

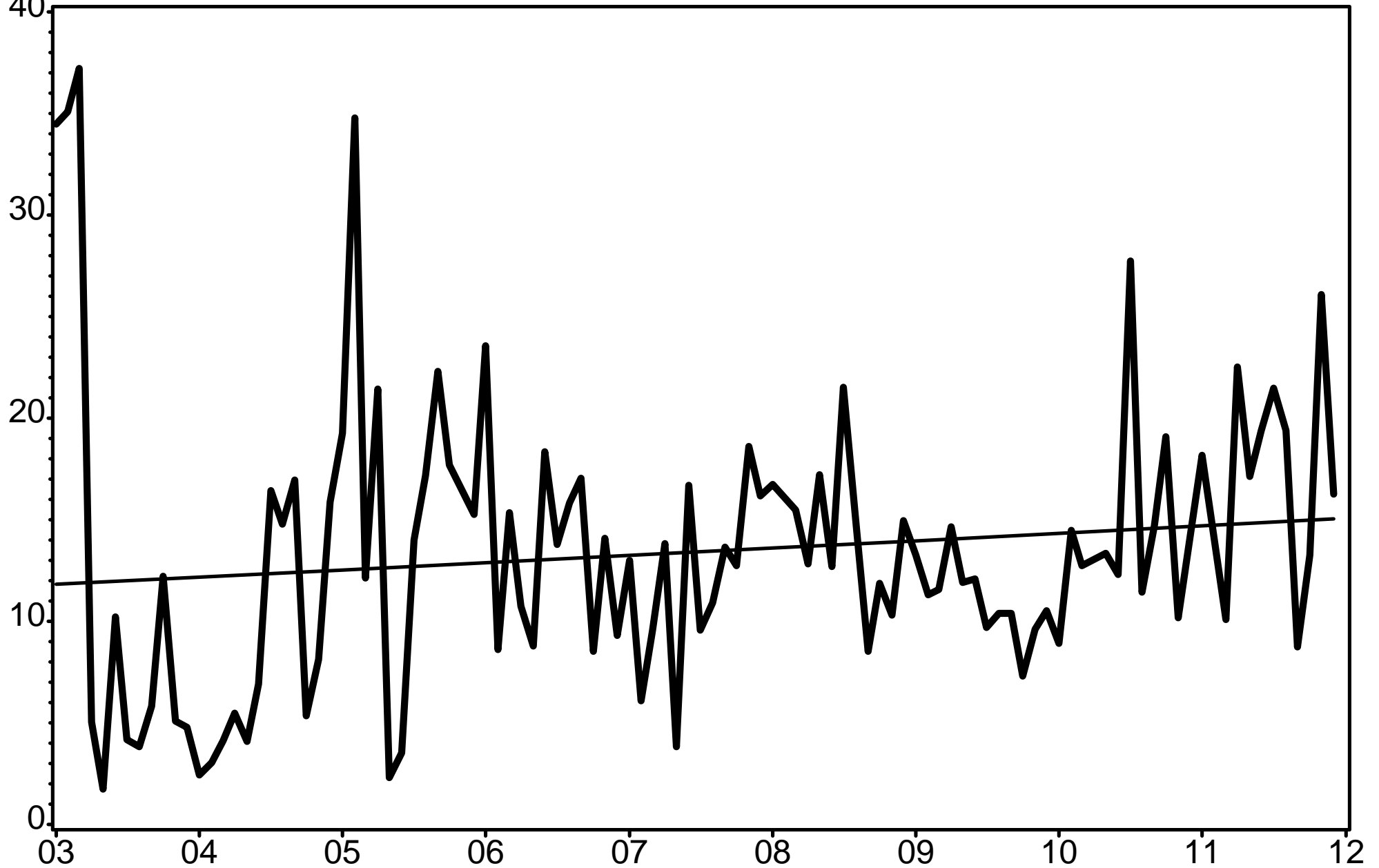
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 191
Monthly Data Time Series
for Surface Total Suspended Solids in Bokeelia
Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



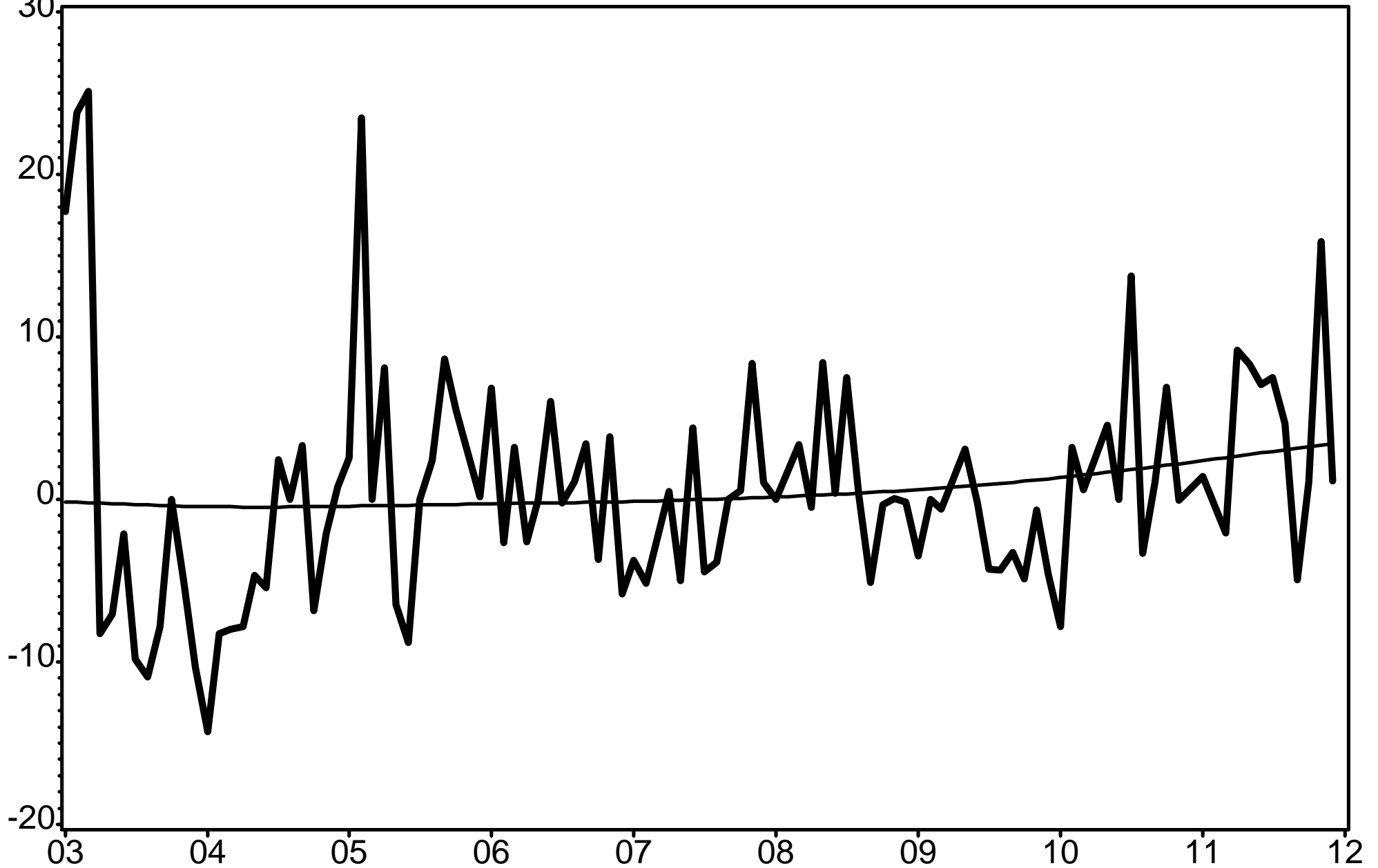
Bokeelia Trends Appendix - Display 192

Monthly Data Time Series

for Surface Total Suspended Solids in Bokeelia

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

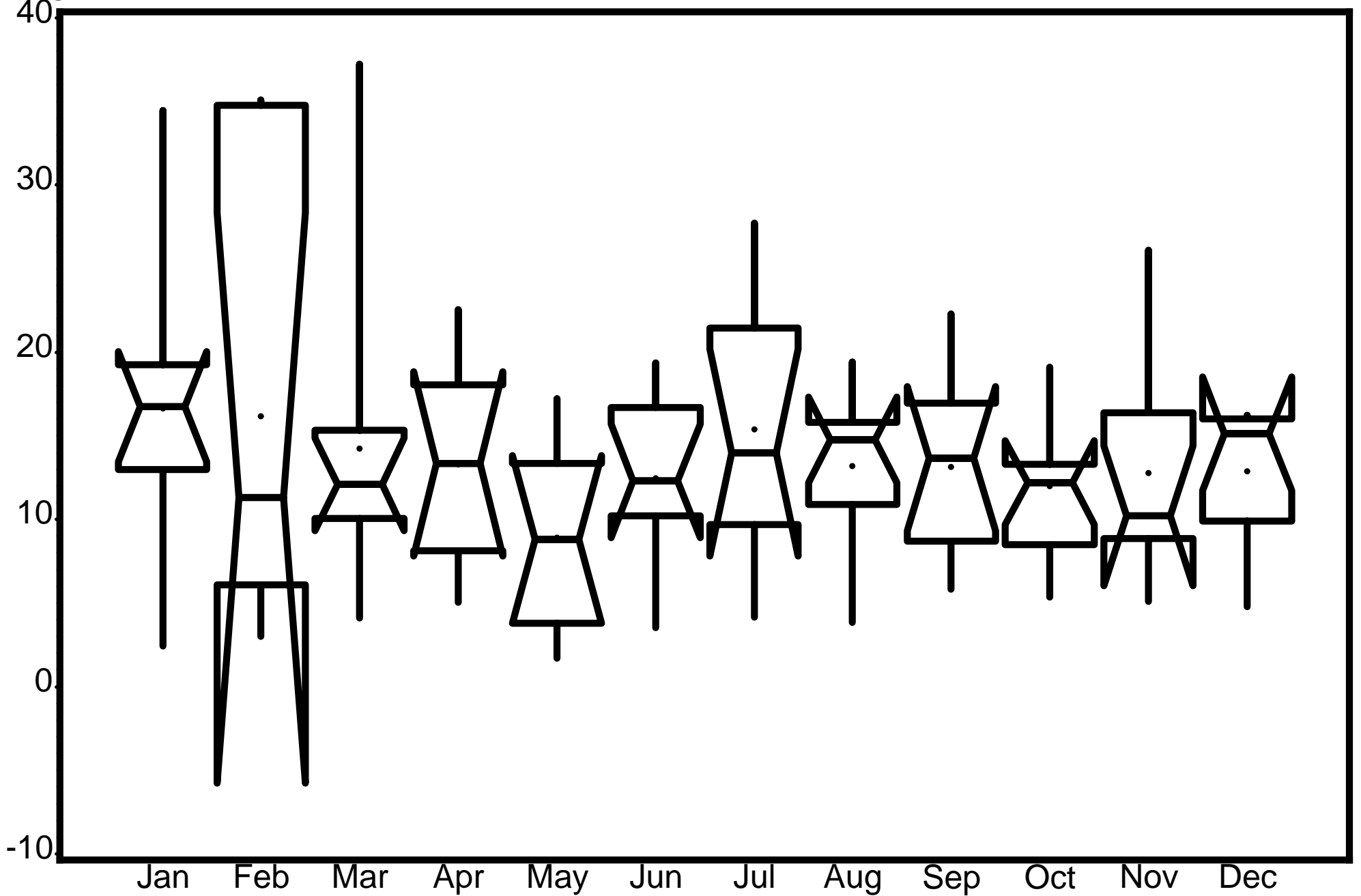


Bokeelia Trends Appendix - Display 193

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Bokeelia

TSS_mgl
(mg/l)



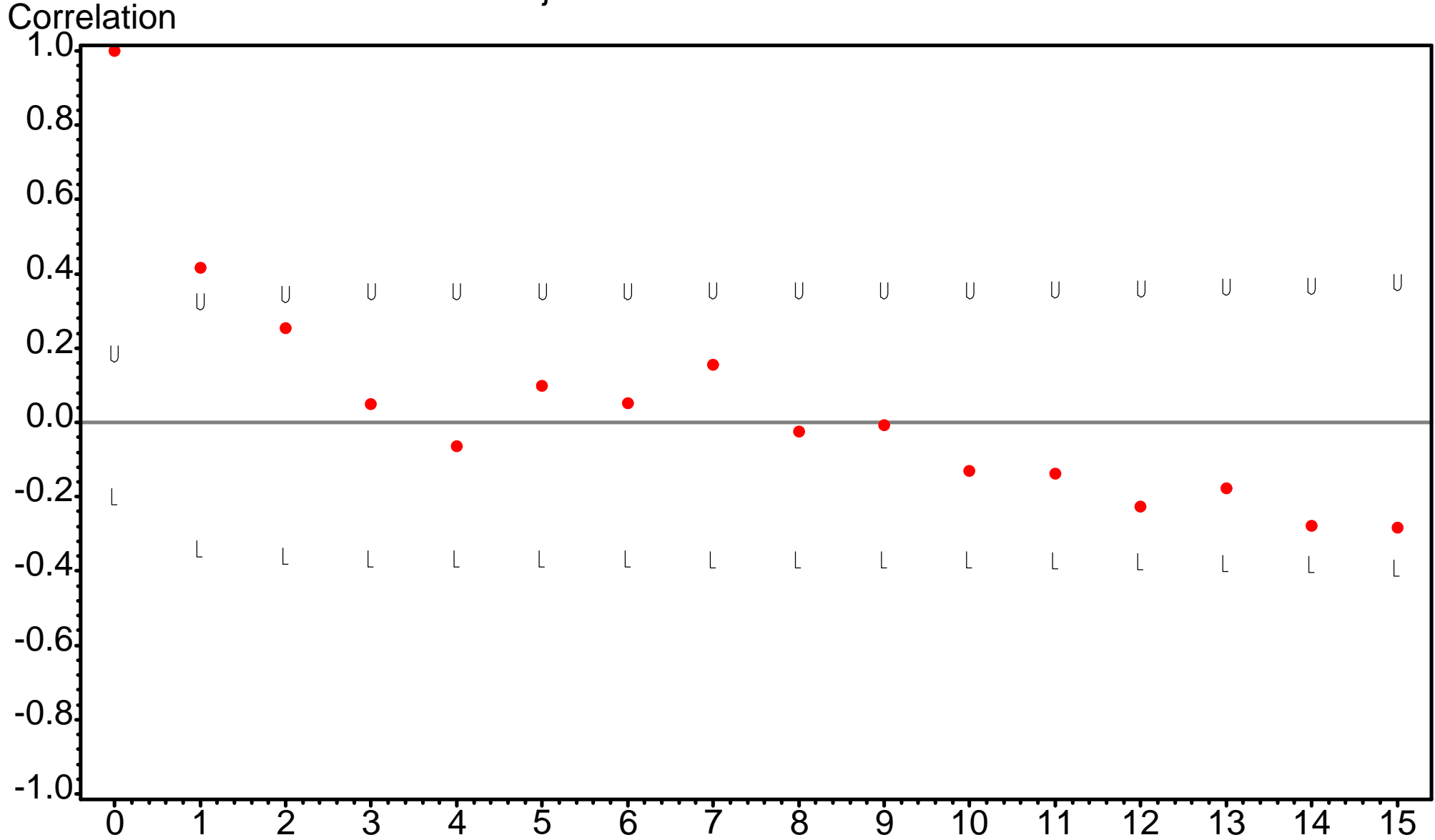
Bokeelia Trends Appendix - Display 194

Autocorrelation Statistics for Surface Total Suspended Solids in Bokeelia

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.417	0.167	0.333	-0.333
2	0.253	0.176	0.352	-0.352
3	0.050	0.179	0.359	-0.359
4	-0.063	0.180	0.359	-0.359
5	0.098	0.180	0.359	-0.359
6	0.052	0.180	0.360	-0.360
7	0.155	0.180	0.361	-0.361
8	-0.024	0.182	0.363	-0.363
9	-0.008	0.182	0.363	-0.363
10	-0.130	0.182	0.363	-0.363
11	-0.137	0.182	0.365	-0.365
12	-0.227	0.183	0.367	-0.367
13	-0.177	0.186	0.372	-0.372
14	-0.278	0.188	0.375	-0.375
15	-0.284	0.191	0.383	-0.383

Bokeelia Trends Appendix - Display 195

Correlogram for Surface Total Suspended Solids in Bokeelia Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 196
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Bokeelia
Unadjusted for Seasonal Medians

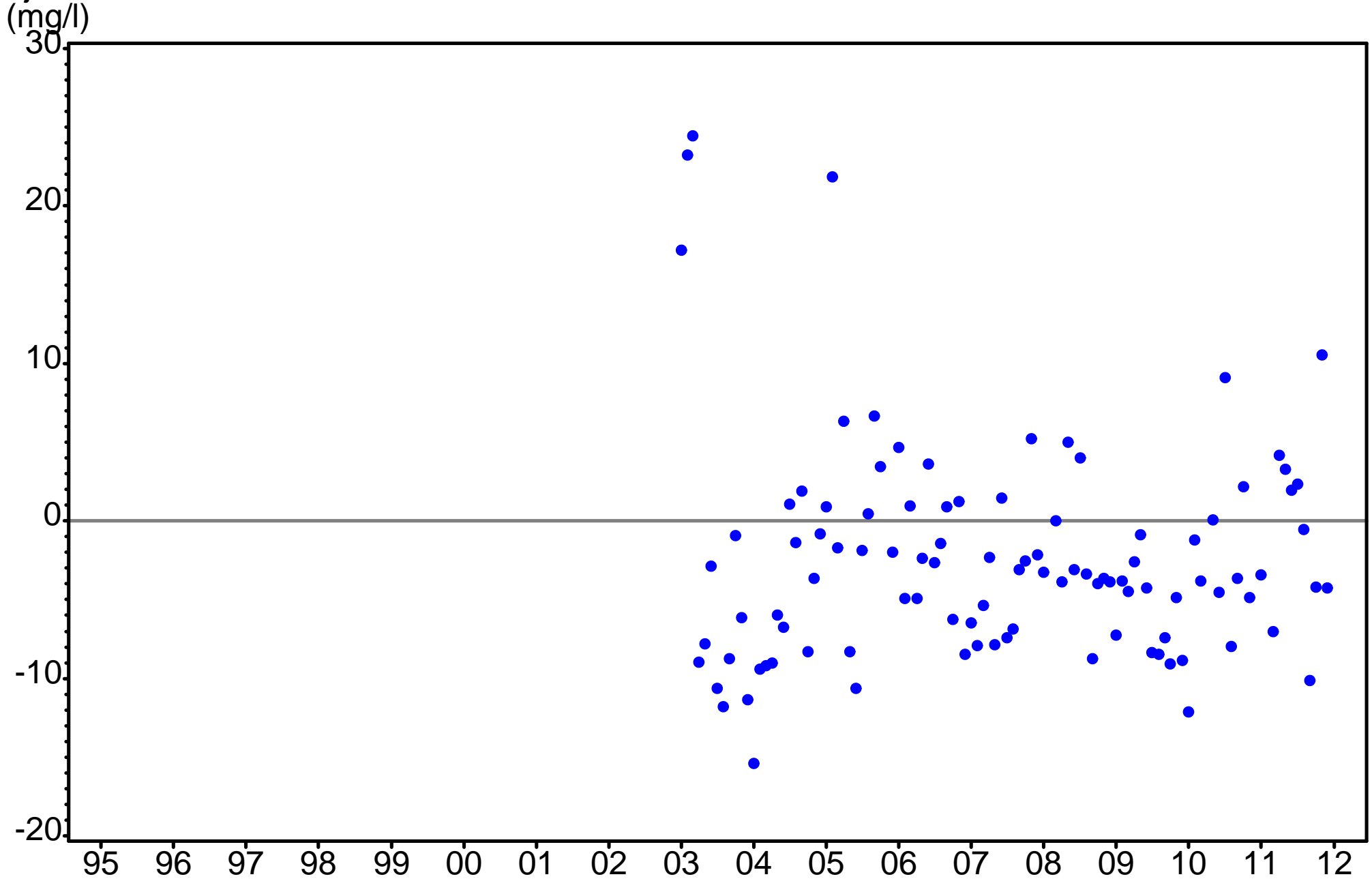
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.164	0.014	0.014	0.69

Bokeelia Trends Appendix - Display 197
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.20611	0.010458	0.10939	0.5412

Bokeelia Trends Appendix - Display 198

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Bokeelia



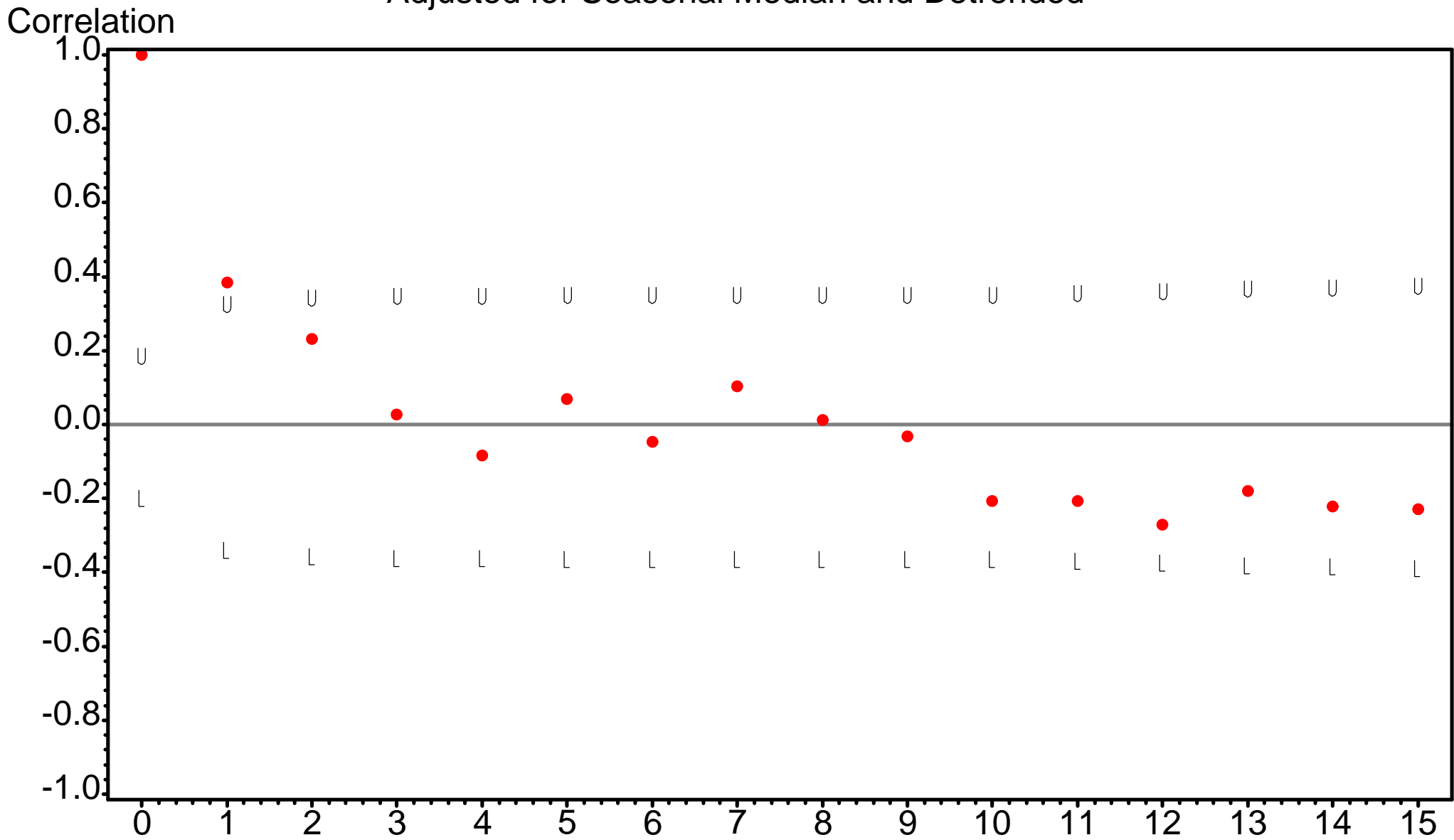
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 199
Autocorrelation Statistics for Surface Total Suspended Solids in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.383	0.167	0.333	-0.333
2	0.232	0.175	0.349	-0.349
3	0.028	0.177	0.355	-0.355
4	-0.084	0.177	0.355	-0.355
5	0.070	0.178	0.356	-0.356
6	-0.047	0.178	0.356	-0.356
7	0.104	0.178	0.356	-0.356
8	0.012	0.179	0.358	-0.358
9	-0.033	0.179	0.358	-0.358
10	-0.208	0.179	0.358	-0.358
11	-0.207	0.181	0.362	-0.362
12	-0.271	0.183	0.367	-0.367
13	-0.179	0.187	0.374	-0.374
14	-0.222	0.189	0.377	-0.377
15	-0.229	0.191	0.382	-0.382

Bokeelia Trends Appendix - Display 200

Correlogram for Surface Total Suspended Solids in Bokeelia Adjusted for Seasonal Median and Detrended



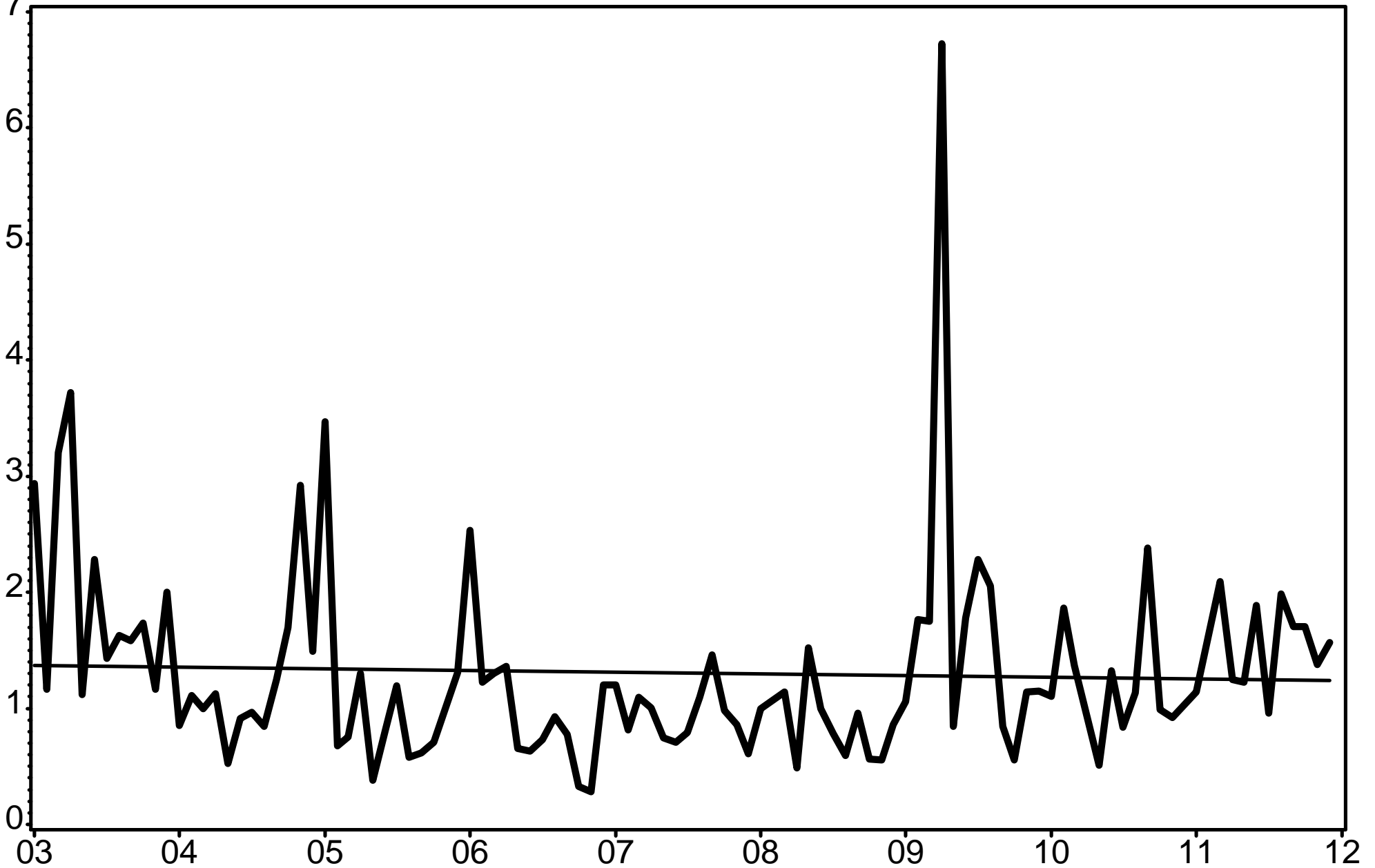
Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 201

Monthly Data Time Series
for Surface Turbidity in Bokeelia
Not Adjusted for Seasonal Medians

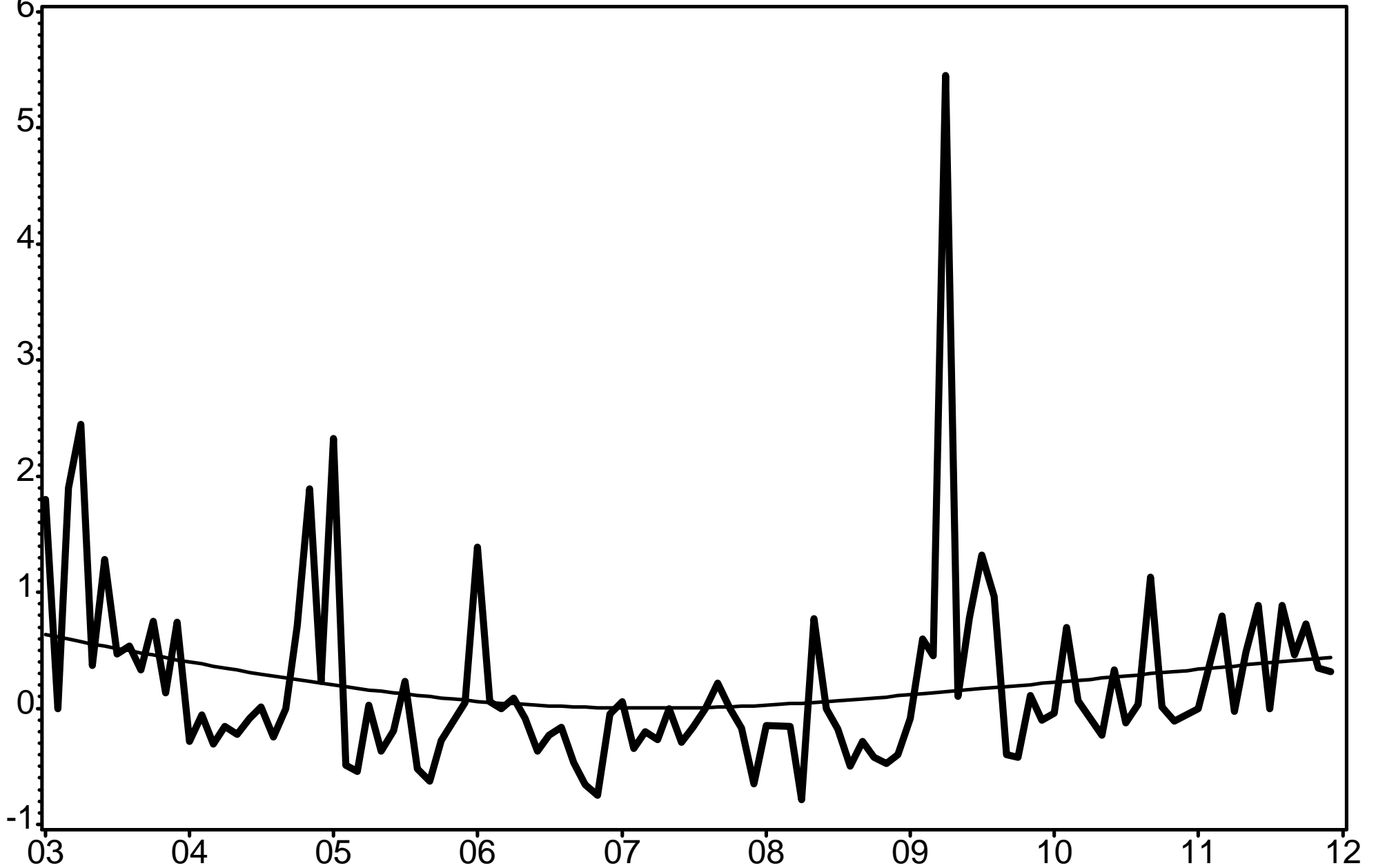
Turb
(NTU)



Bokeelia Trends Appendix - Display 202

Monthly Data Time Series
for Surface Turbidity in Bokeelia
Adjusted for Seasonal Medians

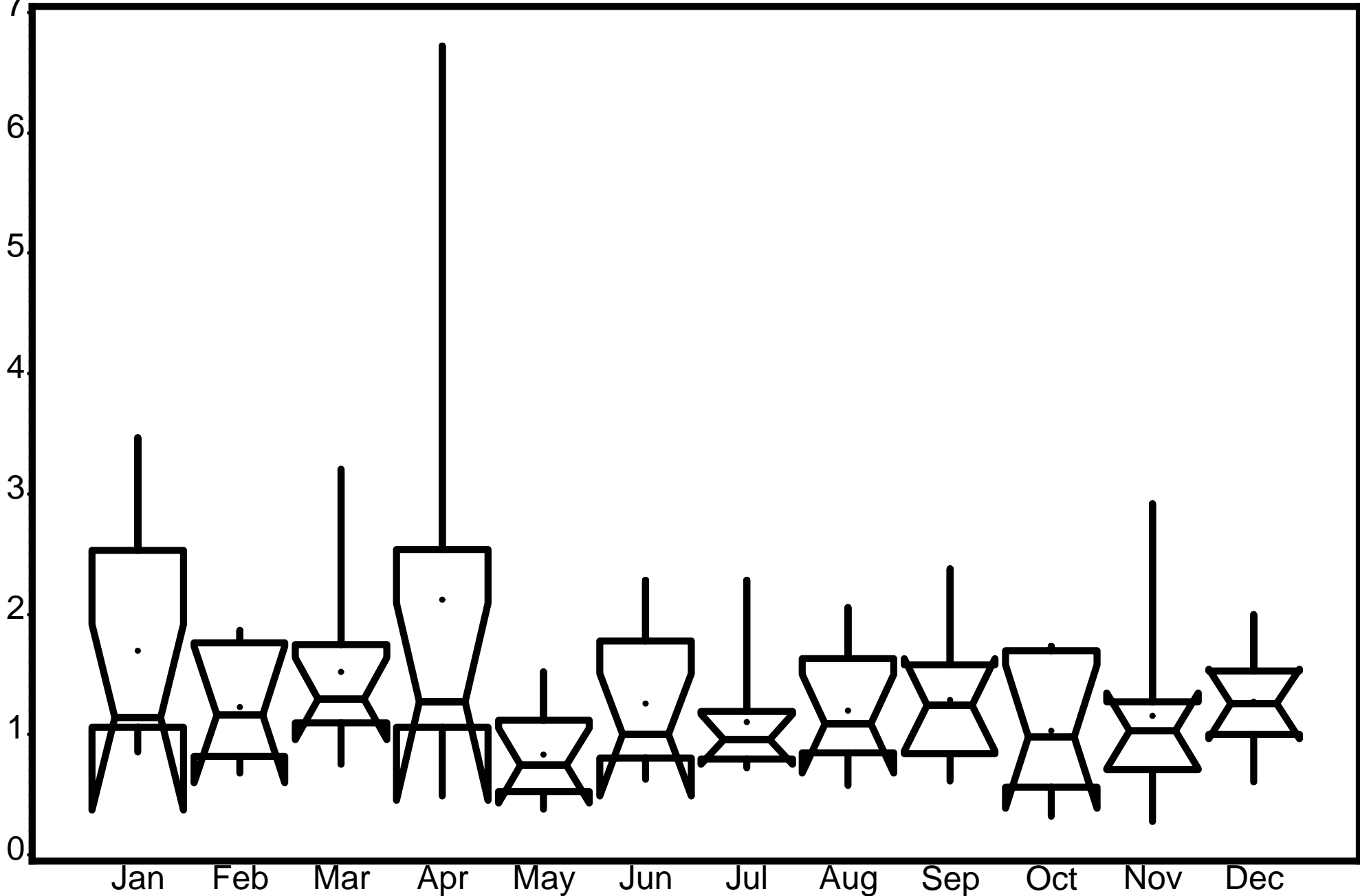
Adjusted
Turb
(NTU)



Bokeelia Trends Appendix - Display 203

Seasonal Univariate Statistics for Surface Turbidity in Bokeelia

Turb
(NTU)



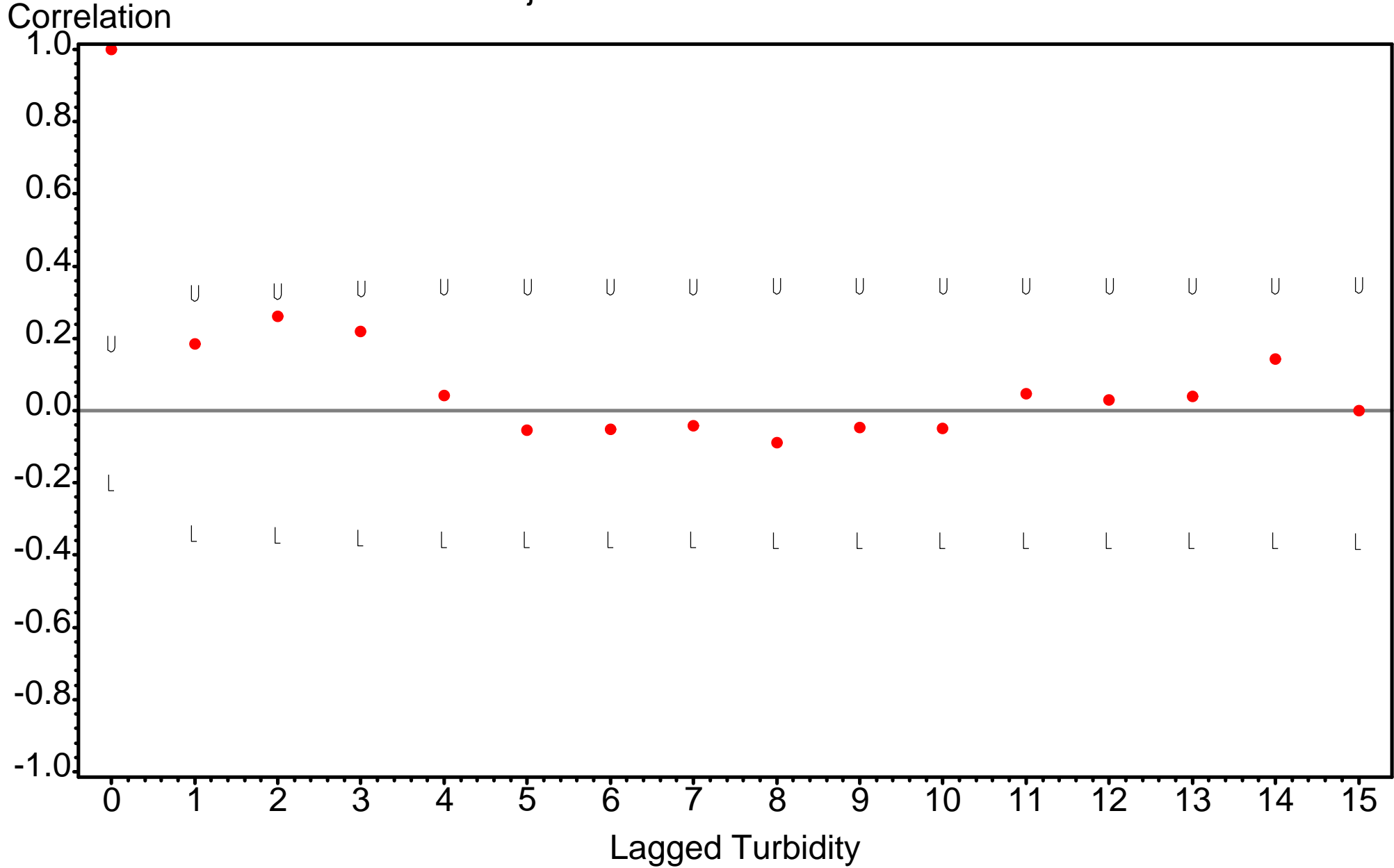
Bokeelia Trends Appendix - Display 204
Autocorrelation Statistics for Surface Turbidity in Bokeelia

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.185	0.167	0.333	-0.333
2	0.262	0.169	0.337	-0.337
3	0.218	0.172	0.345	-0.345
4	0.042	0.175	0.350	-0.350
5	-0.054	0.175	0.350	-0.350
6	-0.052	0.175	0.350	-0.350
7	-0.043	0.175	0.350	-0.350
8	-0.088	0.175	0.351	-0.351
9	-0.047	0.176	0.351	-0.351
10	-0.049	0.176	0.352	-0.352
11	0.046	0.176	0.352	-0.352
12	0.030	0.176	0.352	-0.352
13	0.040	0.176	0.352	-0.352
14	0.143	0.176	0.352	-0.352
15	0.001	0.177	0.355	-0.355

Bokeelia Trends Appendix - Display 205

Correlogram for Surface Turbidity in Bokeelia

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Bokeelia Trends Appendix - Display 206
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Bokeelia
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.005	0.945	0.945	.002

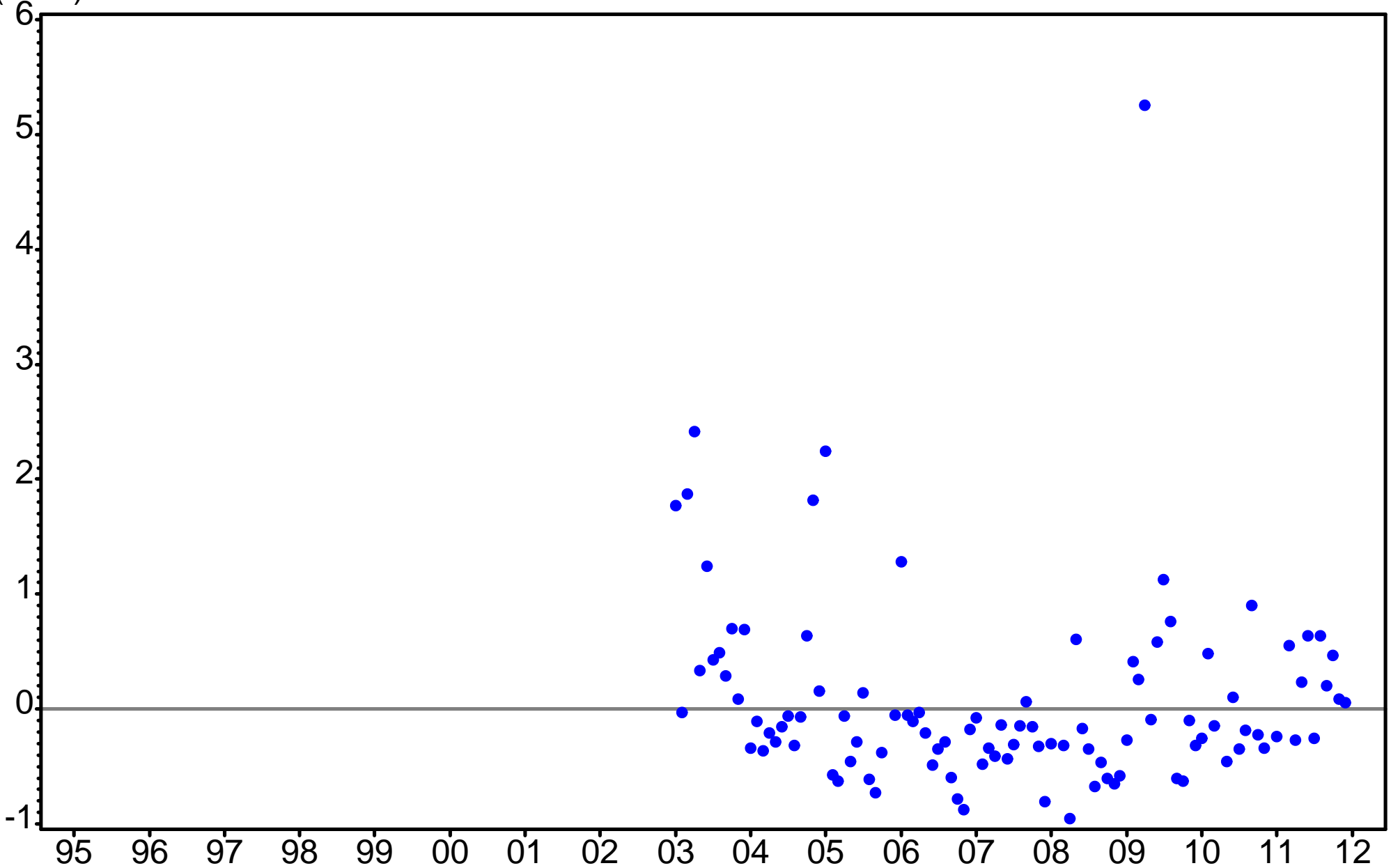
Bokeelia Trends Appendix - Display 207
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Bokeelia
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.073791	0.37020	0.65891	0.0264

Bokeelia Trends Appendix - Display 208

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Bokeelia

Adjusted
(NTU)



Zero Reference Line Shown

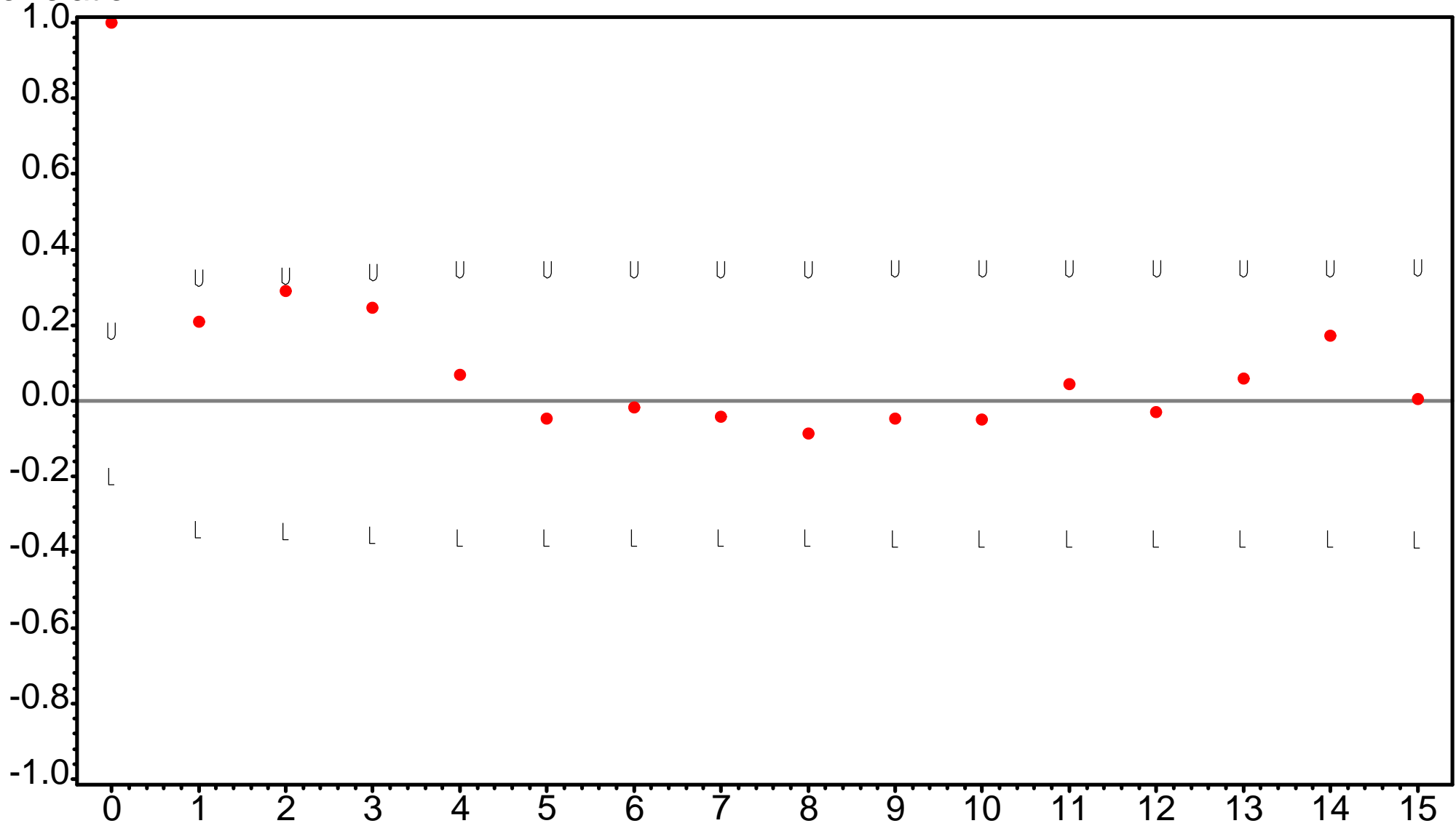
Bokeelia Trends Appendix - Display 209
Autocorrelation Statistics for Surface Turbidity in Bokeelia
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.210	0.167	0.333	-0.333
2	0.291	0.169	0.338	-0.338
3	0.247	0.174	0.347	-0.347
4	0.069	0.177	0.354	-0.354
5	-0.047	0.177	0.354	-0.354
6	-0.017	0.177	0.355	-0.355
7	-0.043	0.177	0.355	-0.355
8	-0.086	0.177	0.355	-0.355
9	-0.047	0.178	0.356	-0.356
10	-0.048	0.178	0.356	-0.356
11	0.044	0.178	0.356	-0.356
12	-0.029	0.178	0.356	-0.356
13	0.058	0.178	0.356	-0.356
14	0.173	0.178	0.357	-0.357
15	0.006	0.180	0.360	-0.360

Bokeelia Trends Appendix - Display 210

Correlogram for Surface Turbidity in Bokeelia
Adjusted for Seasonal Median and Detrended

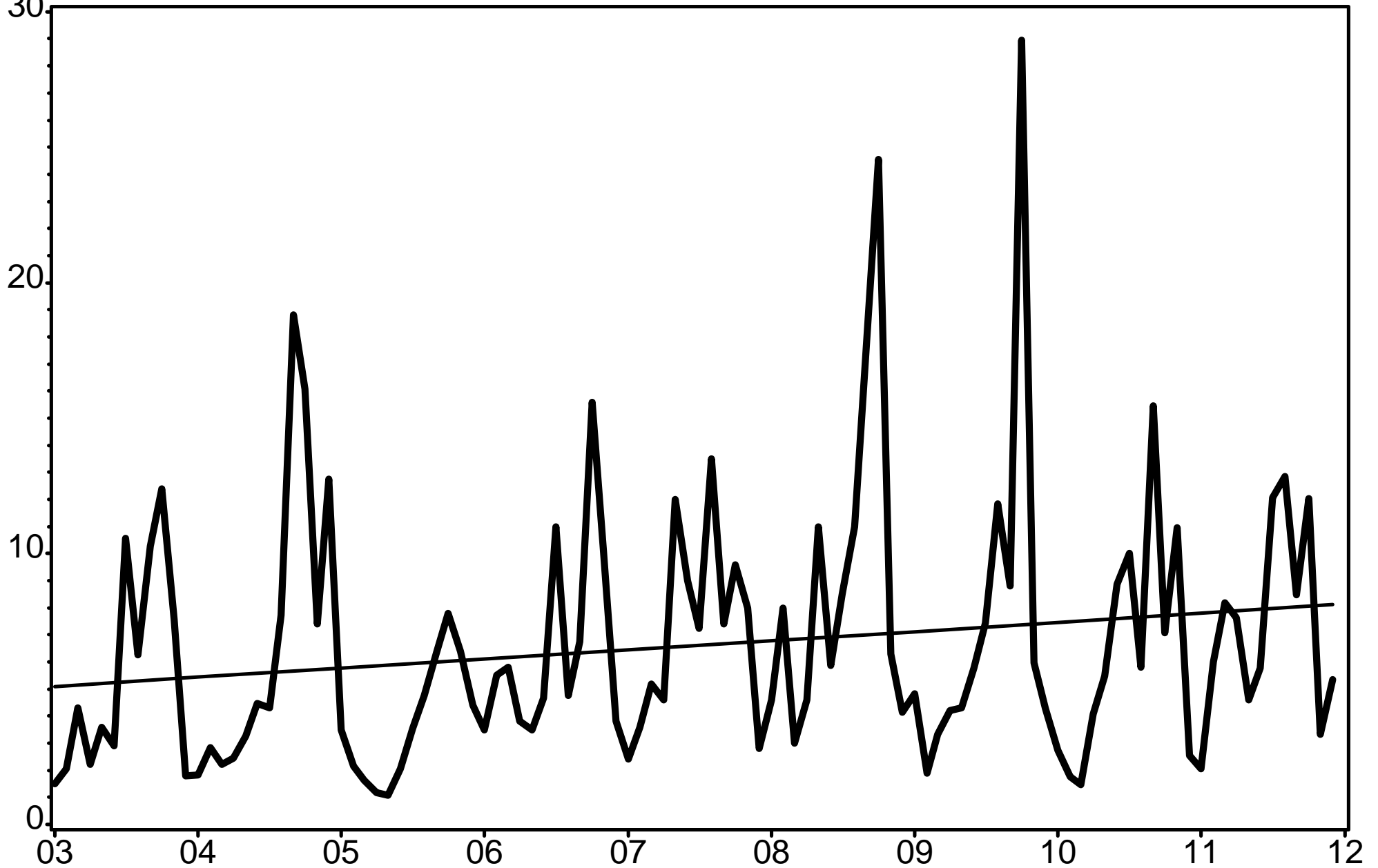
Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 211
Monthly Data Time Series
for Surface Chlorophyll-a (Corrected) in Cape Haze
Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



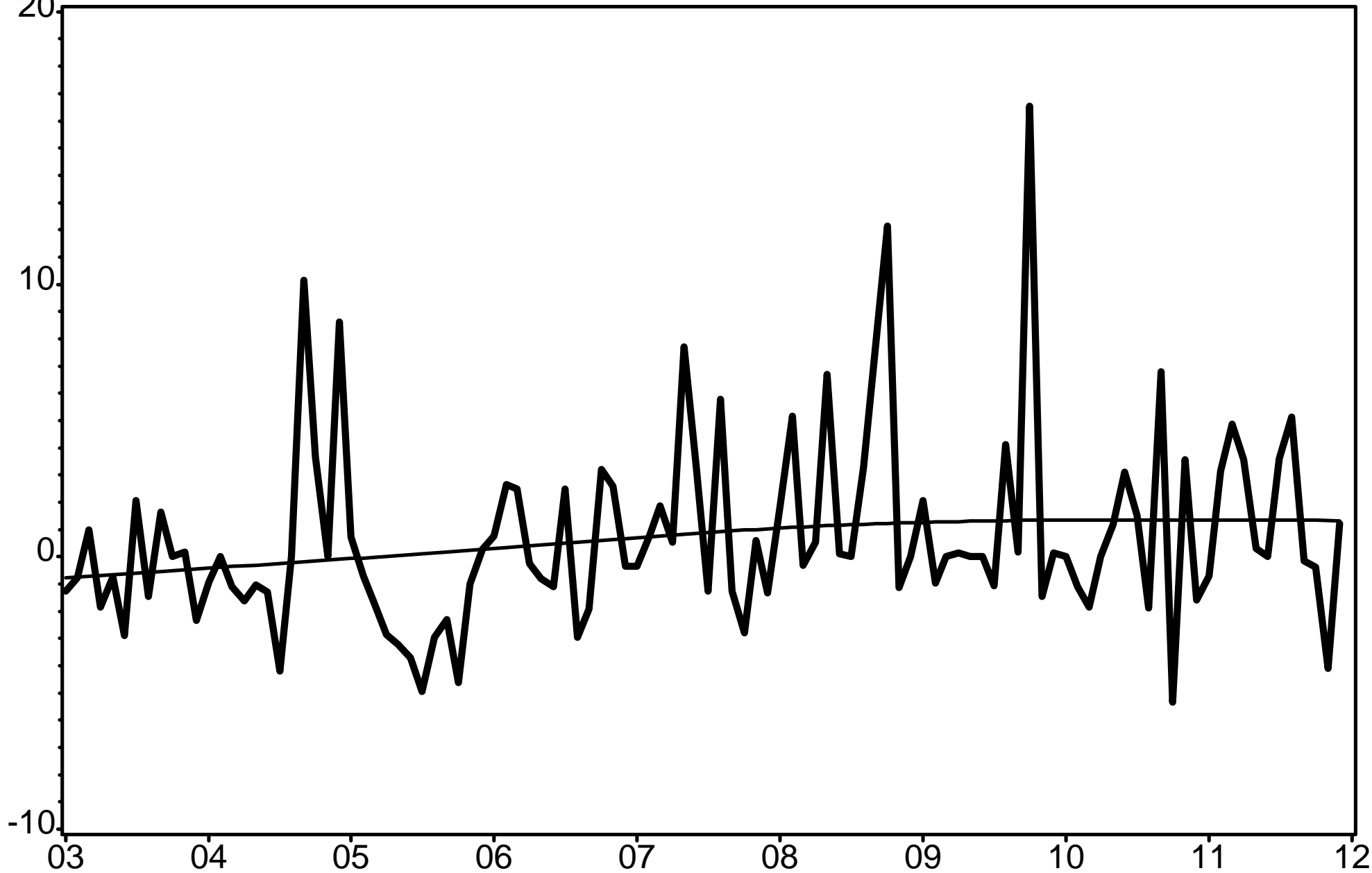
Cape Haze Trends Appendix - Display 212

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Cape Haze

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

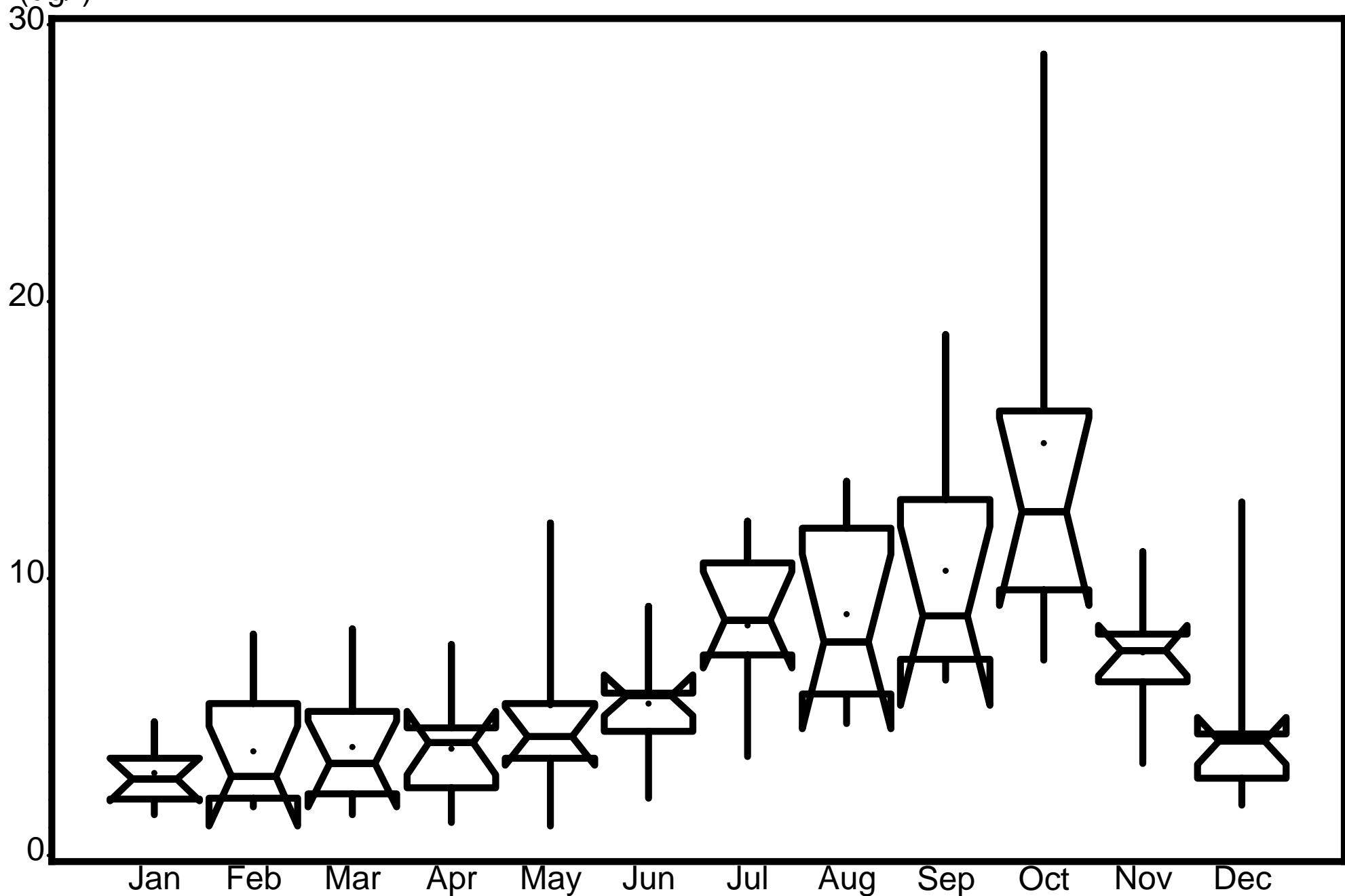


Cape Haze Trends Appendix - Display 213

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Cape Haze

CHLAC_ugl
(ug/l)



Cape Haze Trends Appendix - Display 214

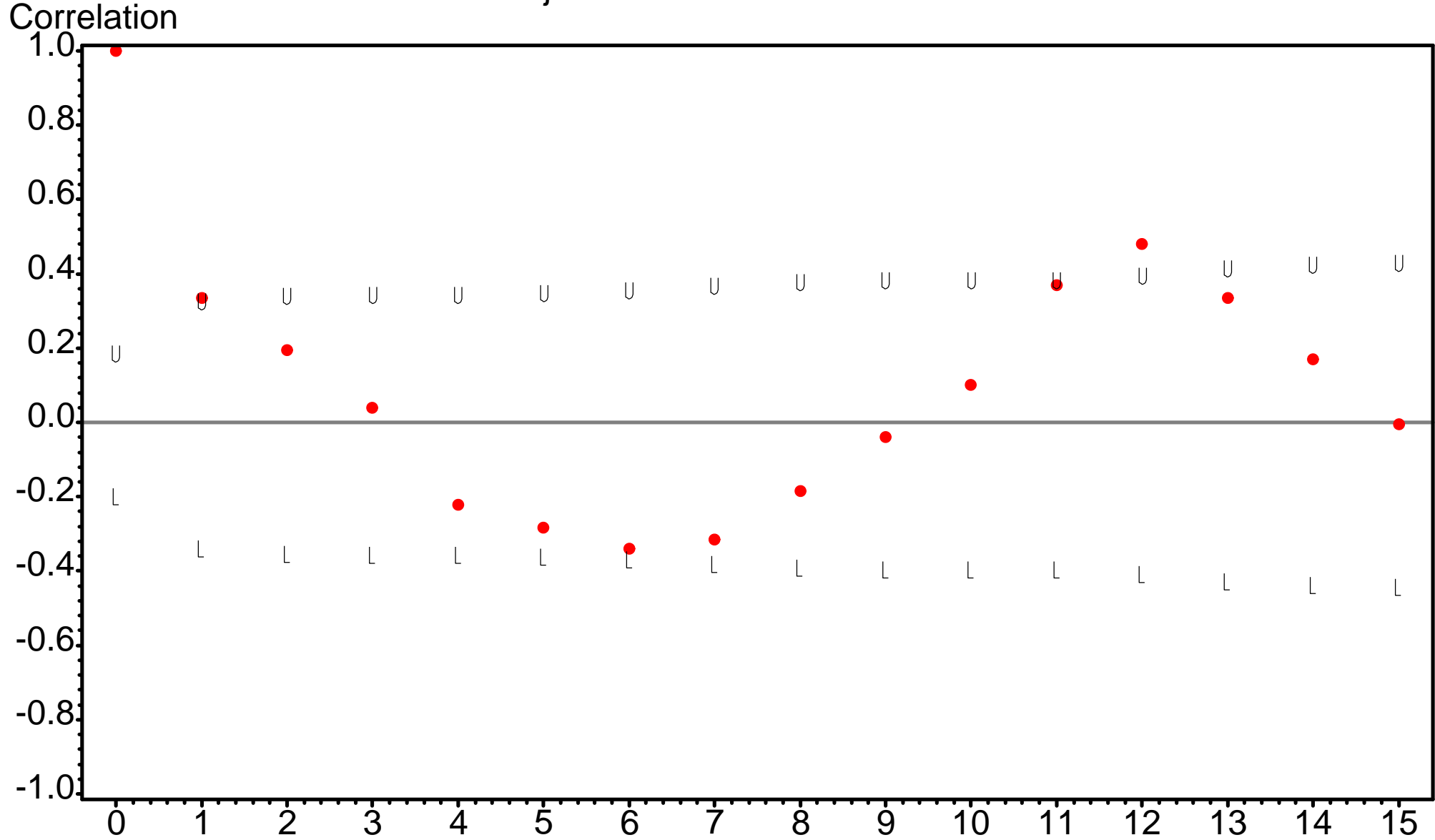
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Cape Haze

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.334	0.167	0.333	-0.333
2	0.194	0.173	0.346	-0.346
3	0.039	0.175	0.350	-0.350
4	-0.222	0.175	0.350	-0.350
5	-0.283	0.177	0.355	-0.355
6	-0.339	0.182	0.363	-0.363
7	-0.316	0.187	0.375	-0.375
8	-0.184	0.192	0.384	-0.384
9	-0.040	0.194	0.388	-0.388
10	0.102	0.194	0.388	-0.388
11	0.370	0.194	0.389	-0.389
12	0.481	0.201	0.402	-0.402
13	0.336	0.211	0.422	-0.422
14	0.171	0.216	0.432	-0.432
15	-0.006	0.217	0.435	-0.435

Cape Haze Trends Appendix - Display 215

Correlogram for Surface Chlorophyll-a (Corrected) in Cape Haze

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 216
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Cape Haze
Unadjusted for Seasonal Medians

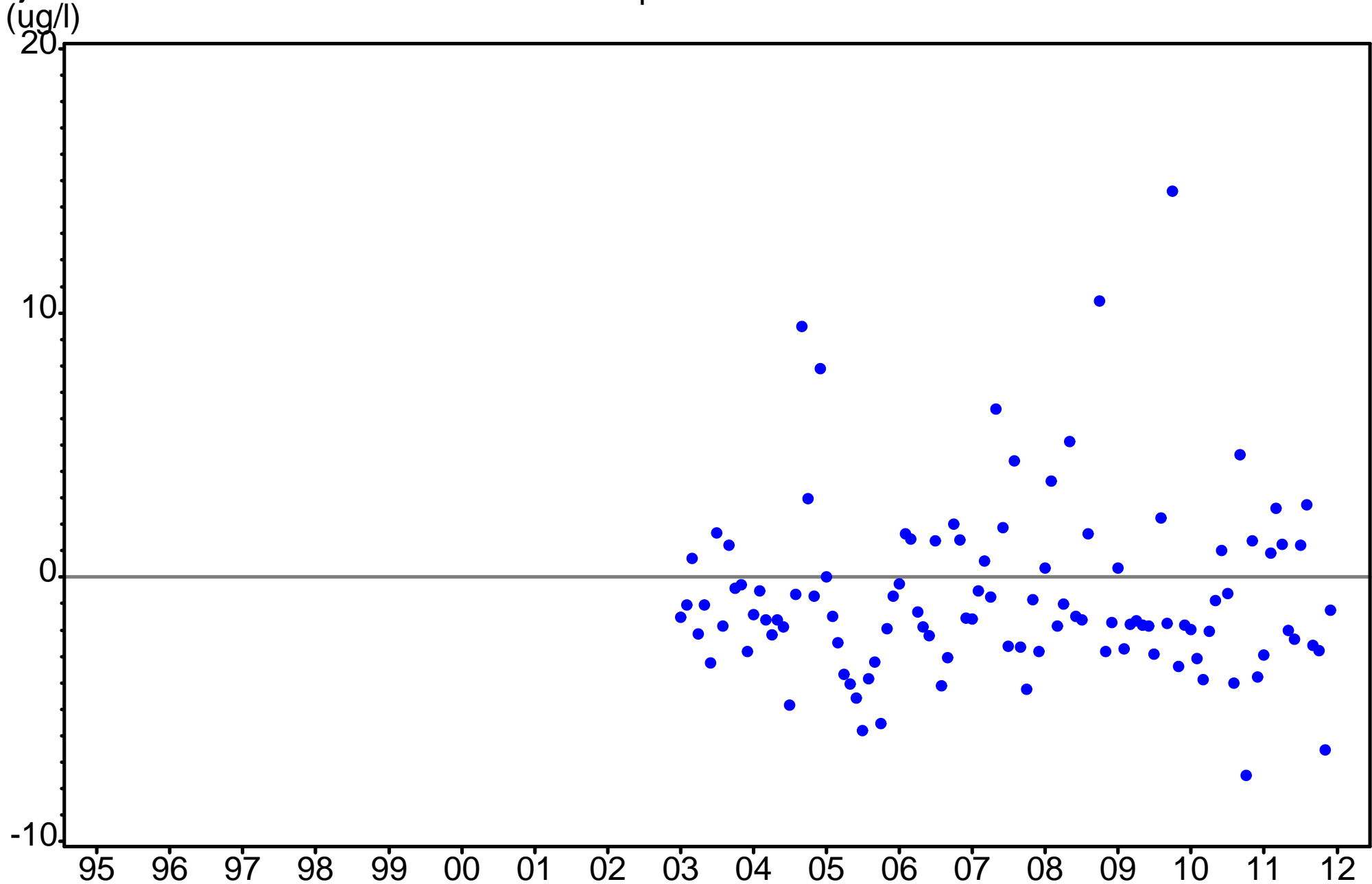
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.176	.007	.007	0.341

Cape Haze Trends Appendix - Display 217
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.20047	0.010455	0.087874	0.24833

Cape Haze Trends Appendix - Display 218

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Cape Haze



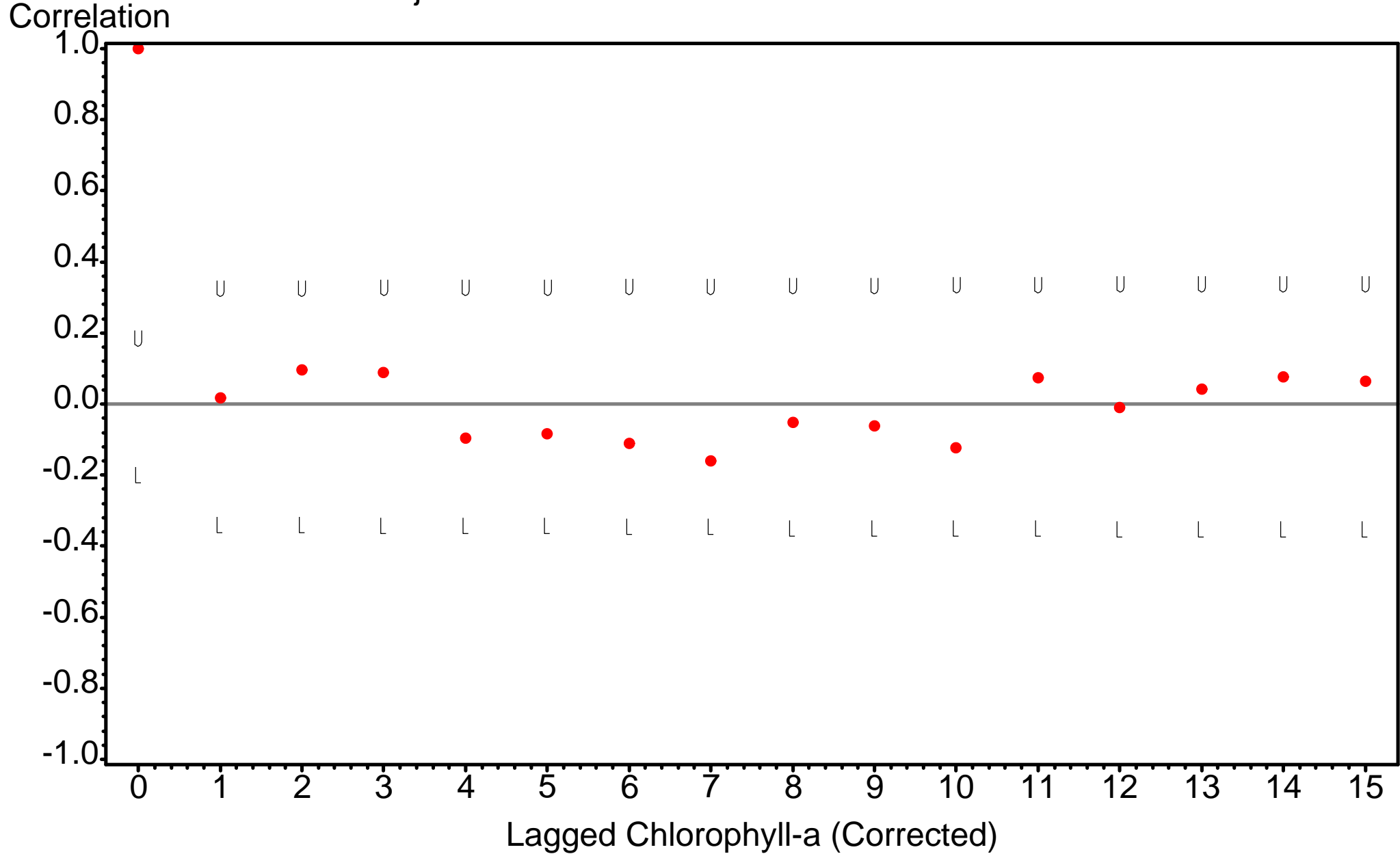
Cape Haze Trends Appendix - Display 219
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.017	0.167	0.333	-0.333
2	0.097	0.167	0.333	-0.333
3	0.089	0.167	0.334	-0.334
4	-0.097	0.168	0.335	-0.335
5	-0.083	0.168	0.336	-0.336
6	-0.111	0.169	0.337	-0.337
7	-0.159	0.169	0.338	-0.338
8	-0.051	0.171	0.341	-0.341
9	-0.062	0.171	0.341	-0.341
10	-0.122	0.171	0.342	-0.342
11	0.074	0.172	0.343	-0.343
12	-0.009	0.172	0.344	-0.344
13	0.042	0.172	0.344	-0.344
14	0.077	0.172	0.344	-0.344
15	0.063	0.172	0.345	-0.345

Cape Haze Trends Appendix - Display 220

Correlogram for Surface Chlorophyll-a (Corrected) in Cape Haze

Adjusted for Seasonal Median and Detrended

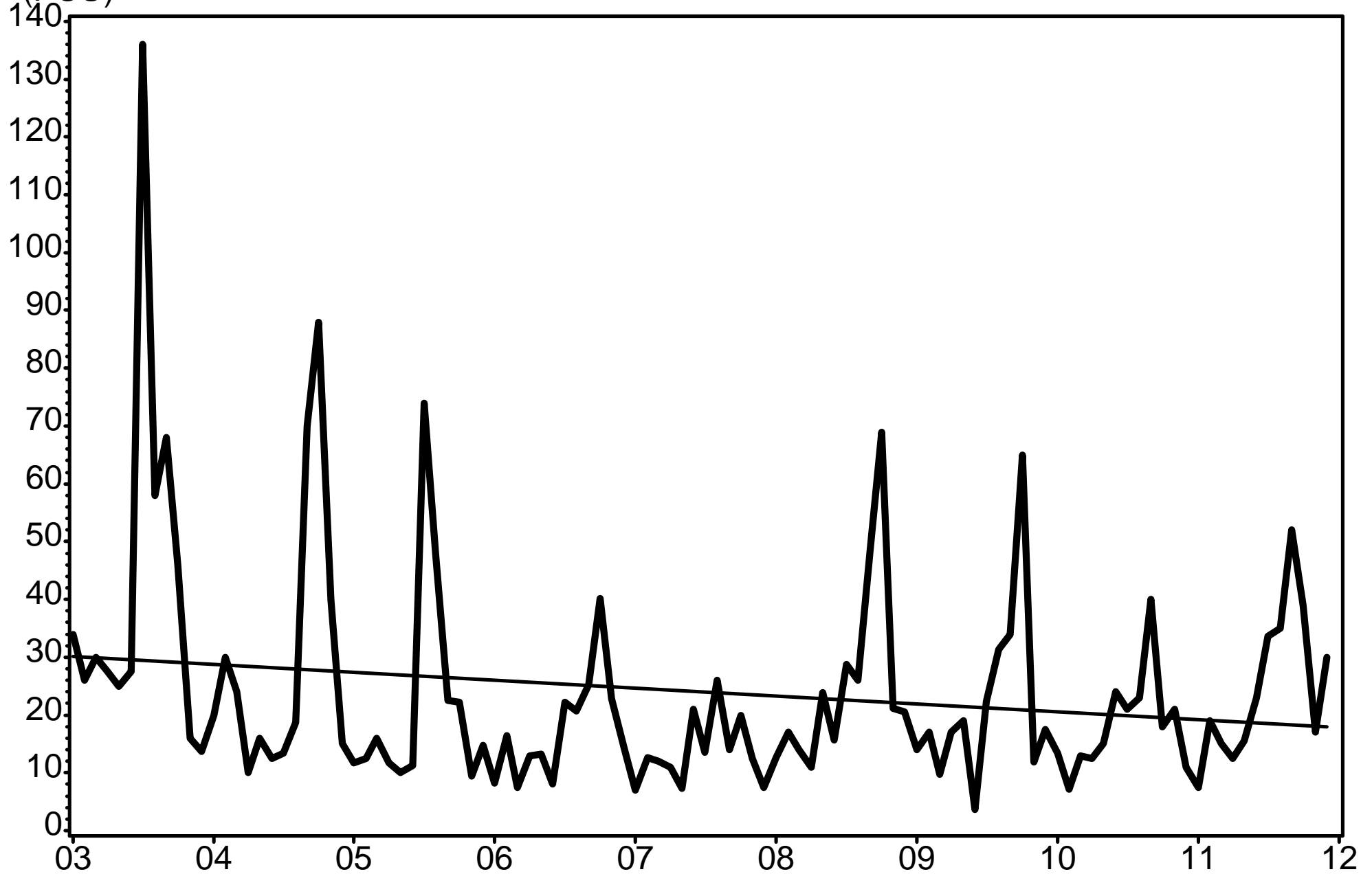


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 221

Monthly Data Time Series
for Surface Color in Cape Haze
Not Adjusted for Seasonal Medians

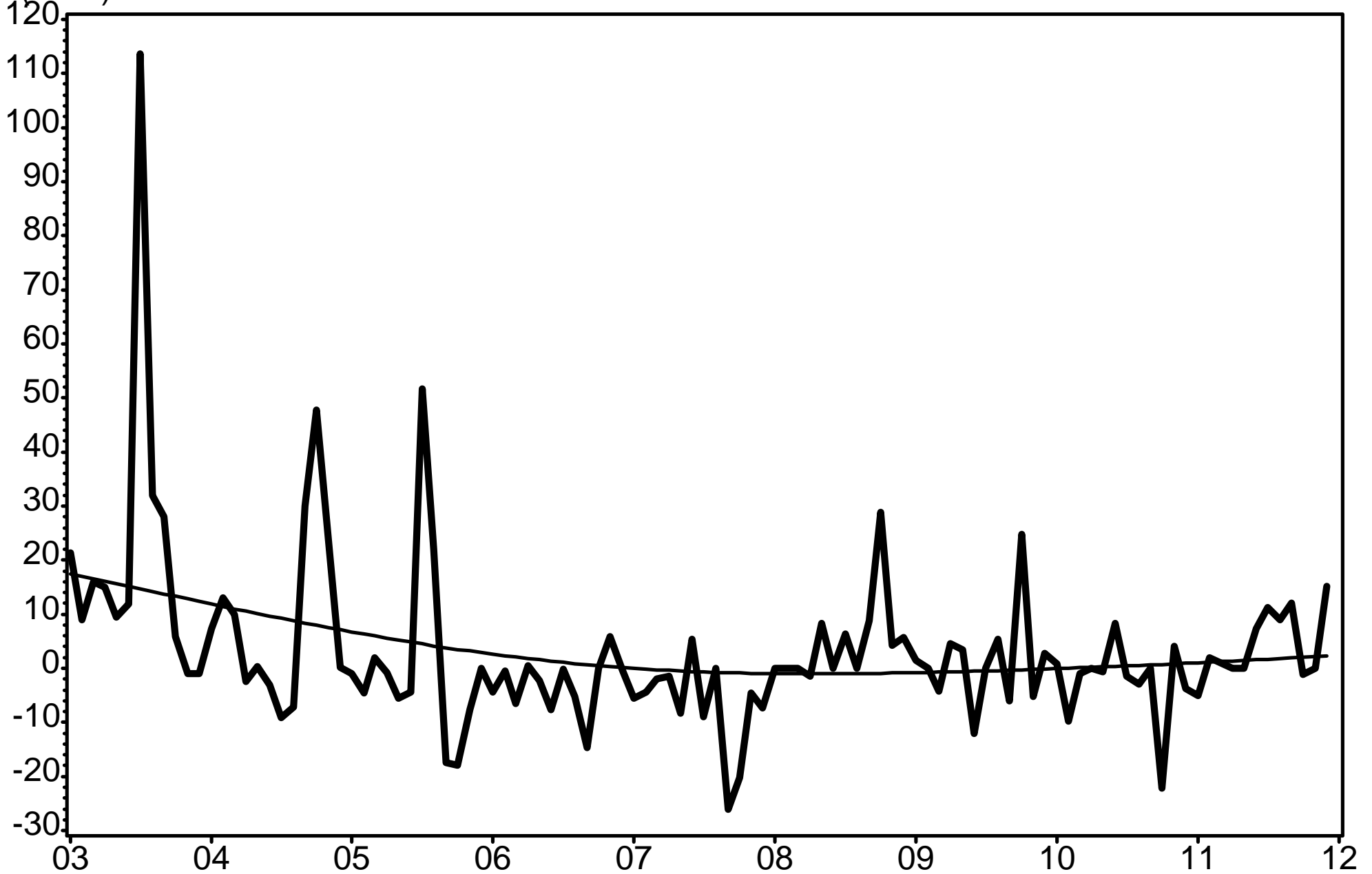
COLOR
(PCU)



Cape Haze Trends Appendix - Display 222

Monthly Data Time Series
for Surface Color in Cape Haze
Adjusted for Seasonal Medians

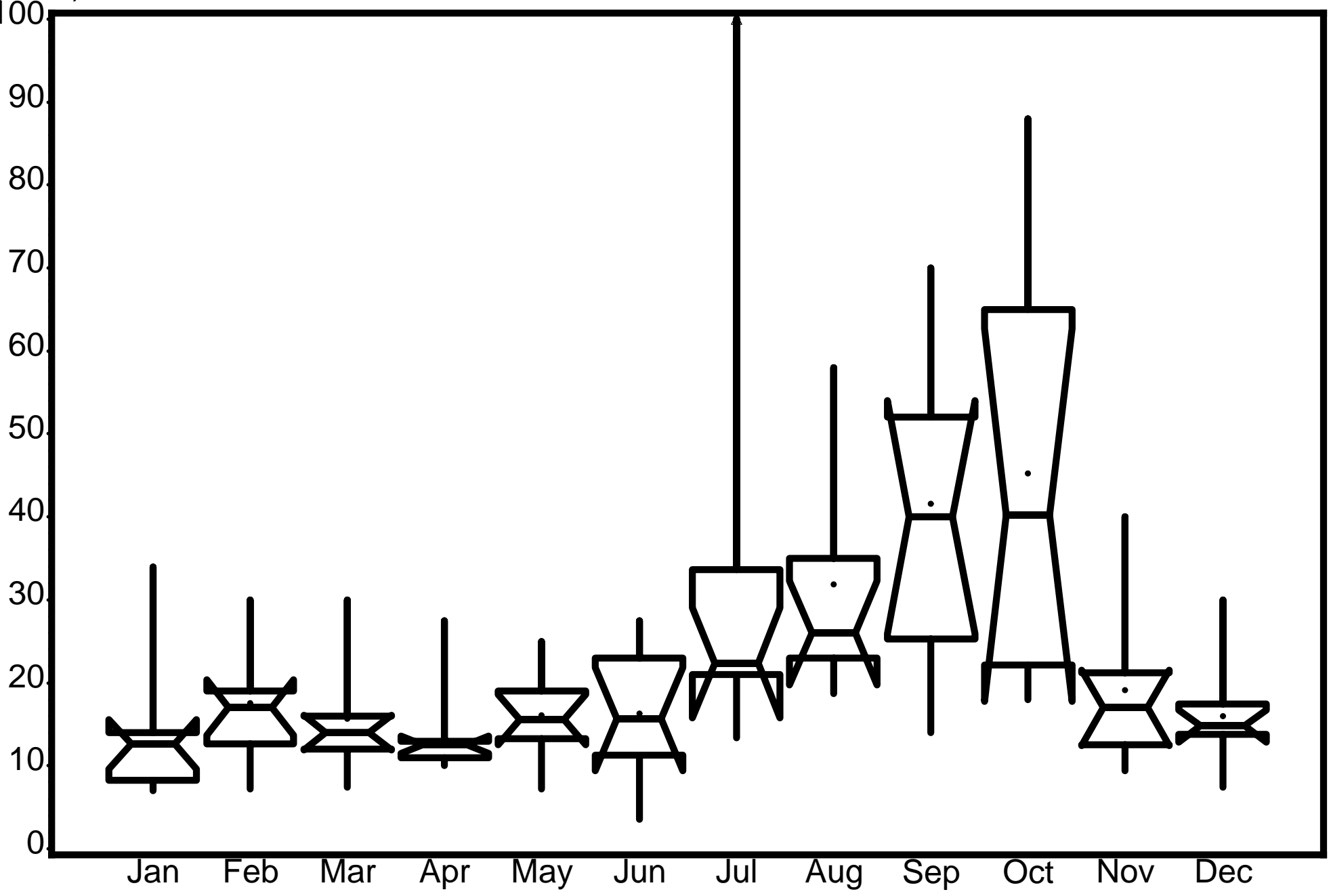
Adjusted
COLOR
(PCU)



Cape Haze Trends Appendix - Display 223

Seasonal Univariate Statistics
for Surface Color in Cape Haze

COLOR
(PCU)



Cape Haze Trends Appendix - Display 224

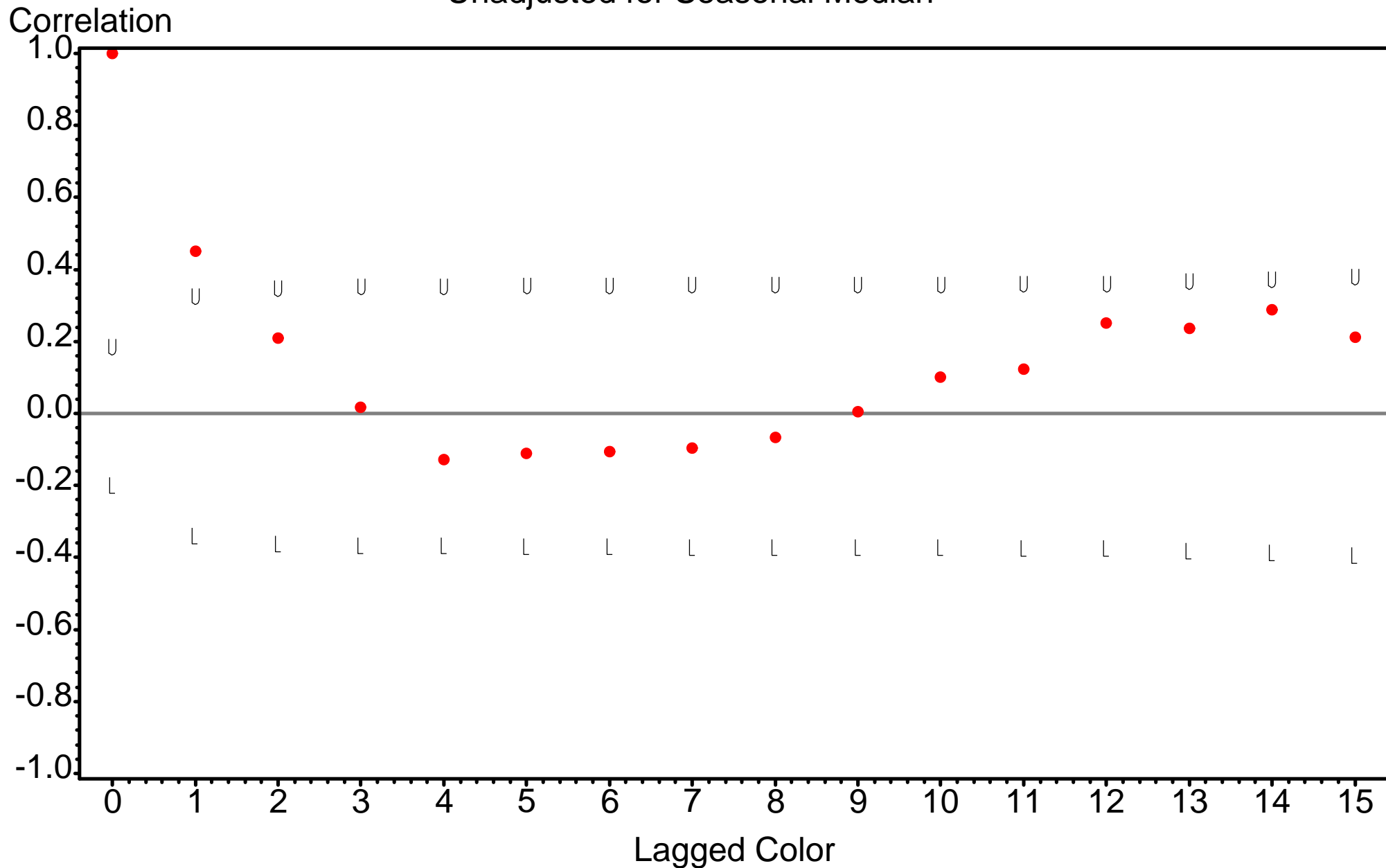
Autocorrelation Statistics for Surface Color in Cape Haze

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.451	0.167	0.333	-0.333
2	0.209	0.178	0.355	-0.355
3	0.018	0.180	0.360	-0.360
4	-0.128	0.180	0.360	-0.360
5	-0.111	0.181	0.361	-0.361
6	-0.105	0.181	0.363	-0.363
7	-0.095	0.182	0.364	-0.364
8	-0.066	0.182	0.365	-0.365
9	0.005	0.183	0.365	-0.365
10	0.100	0.183	0.365	-0.365
11	0.122	0.183	0.366	-0.366
12	0.250	0.184	0.368	-0.368
13	0.237	0.187	0.374	-0.374
14	0.288	0.190	0.379	-0.379
15	0.212	0.194	0.387	-0.387

Cape Haze Trends Appendix - Display 225

Correlogram for Surface Color in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 226
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.048	0.465	0.465	-0.296

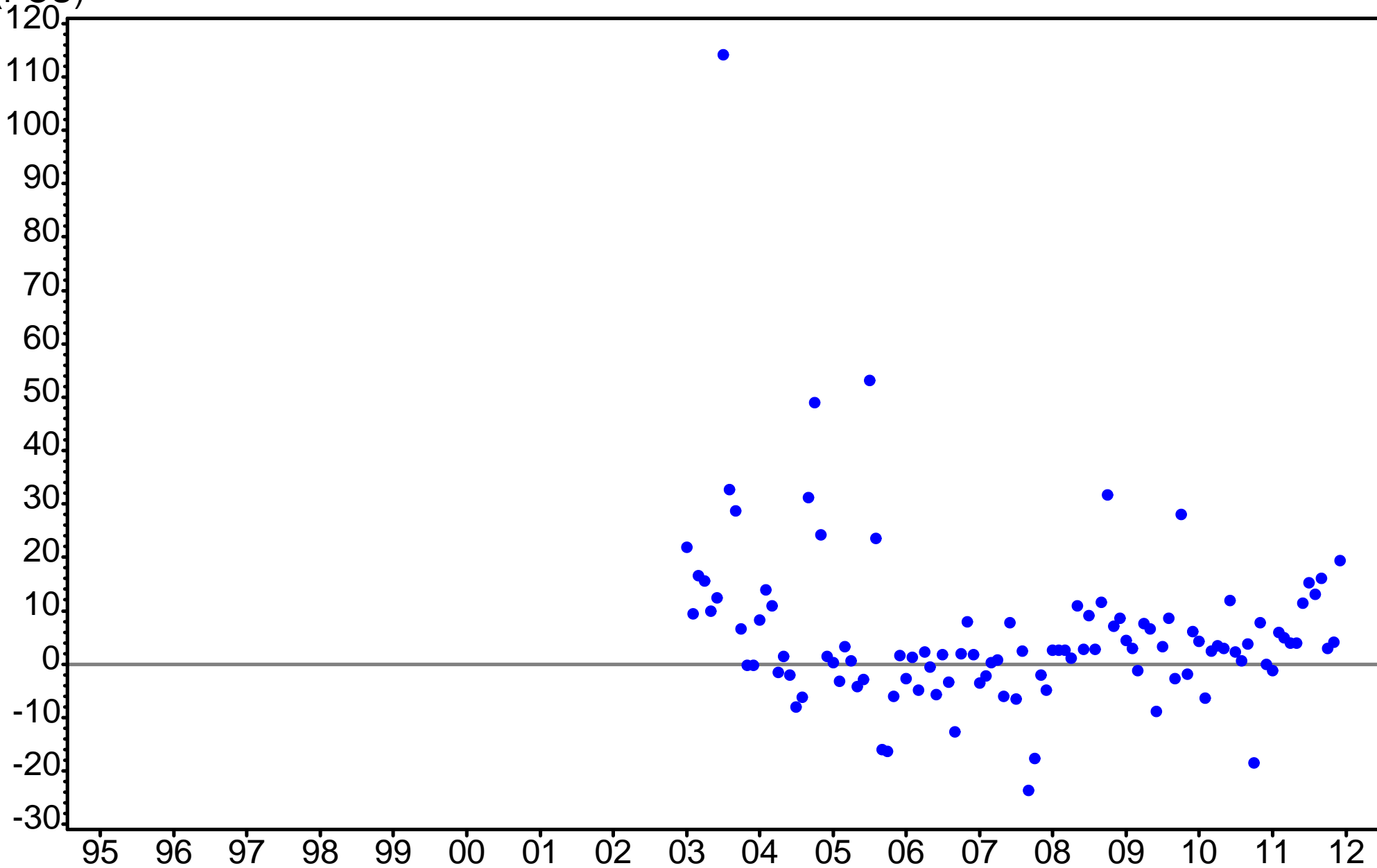
Cape Haze Trends Appendix - Display 227
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.087963	0.26460	0.56372	-0.425

Cape Haze Trends Appendix - Display 228

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(PCU)



Zero Reference Line Shown

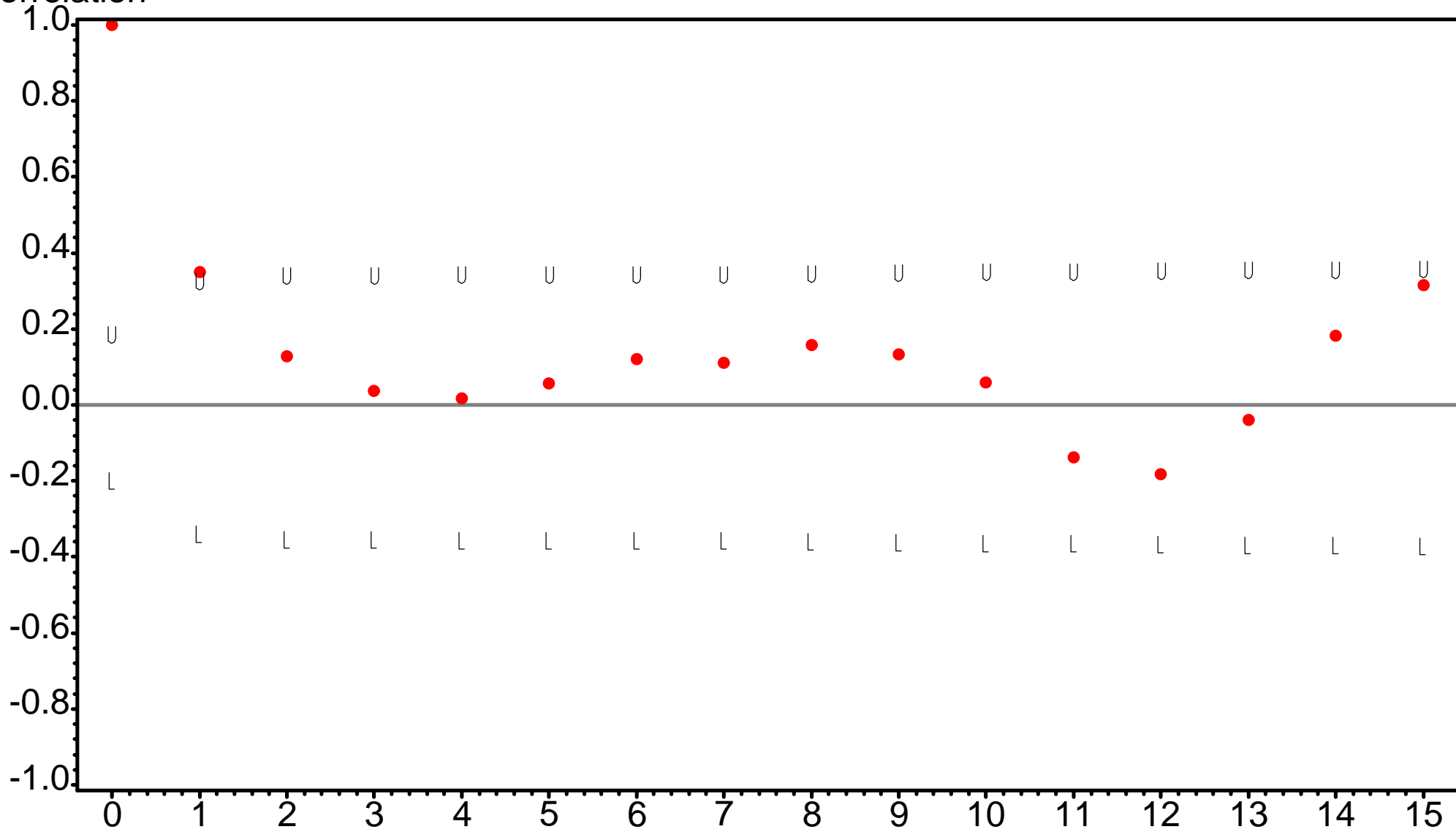
Cape Haze Trends Appendix - Display 229
Autocorrelation Statistics for Surface Color in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.350	0.167	0.333	-0.333
2	0.129	0.173	0.347	-0.347
3	0.036	0.174	0.348	-0.348
4	0.017	0.174	0.349	-0.349
5	0.056	0.174	0.349	-0.349
6	0.120	0.174	0.349	-0.349
7	0.110	0.175	0.350	-0.350
8	0.158	0.176	0.352	-0.352
9	0.133	0.177	0.354	-0.354
10	0.058	0.178	0.356	-0.356
11	-0.139	0.178	0.357	-0.357
12	-0.181	0.179	0.359	-0.359
13	-0.039	0.181	0.362	-0.362
14	0.182	0.181	0.362	-0.362
15	0.316	0.183	0.365	-0.365

Cape Haze Trends Appendix - Display 230

Correlogram for Surface Color in Cape Haze
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

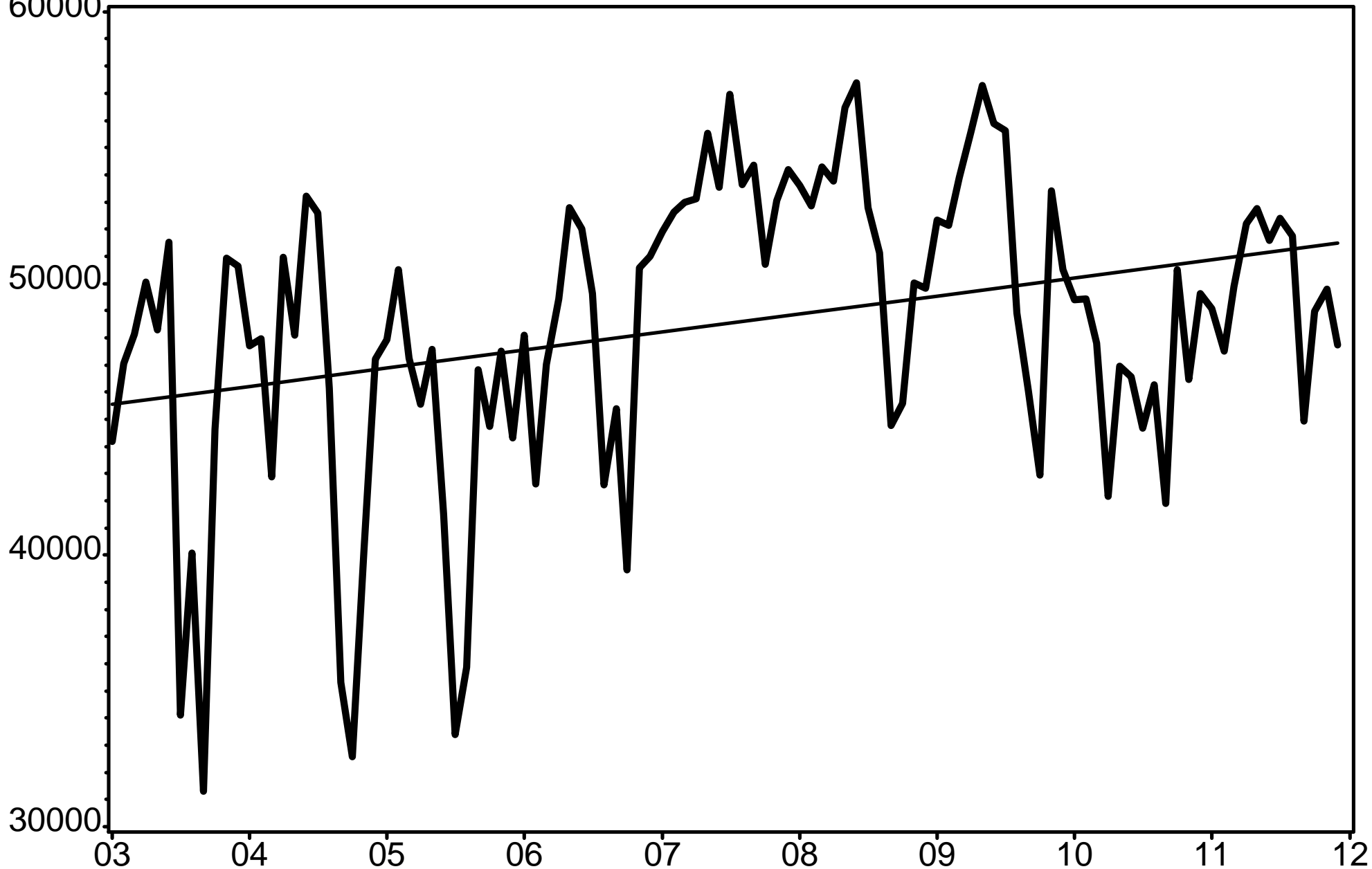
Cape Haze Trends Appendix - Display 231

Monthly Data Time Series

for Surface Specific Conductance in Cape Haze

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)
60000



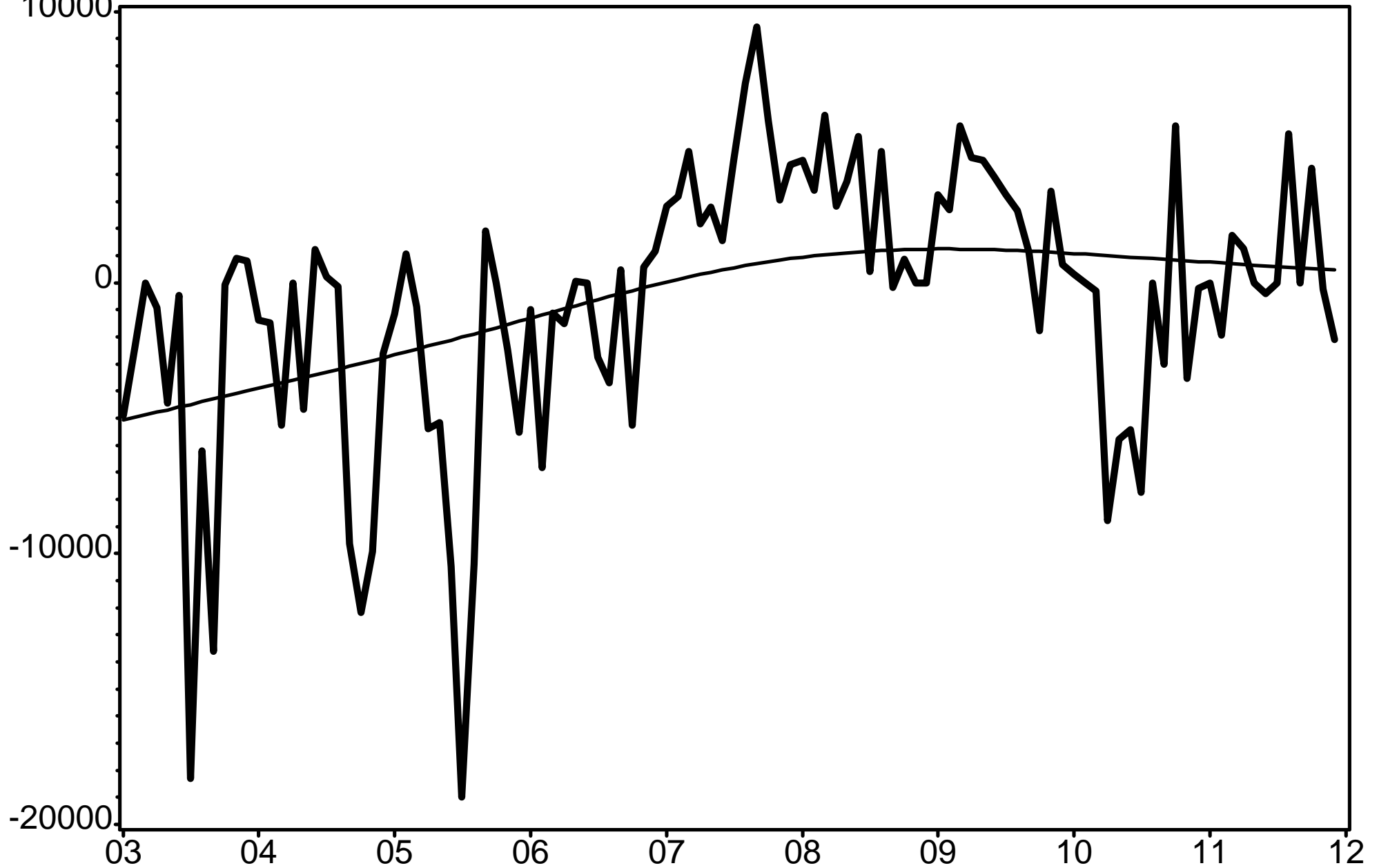
Cape Haze Trends Appendix - Display 232

Monthly Data Time Series

for Surface Specific Conductance in Cape Haze

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
10000

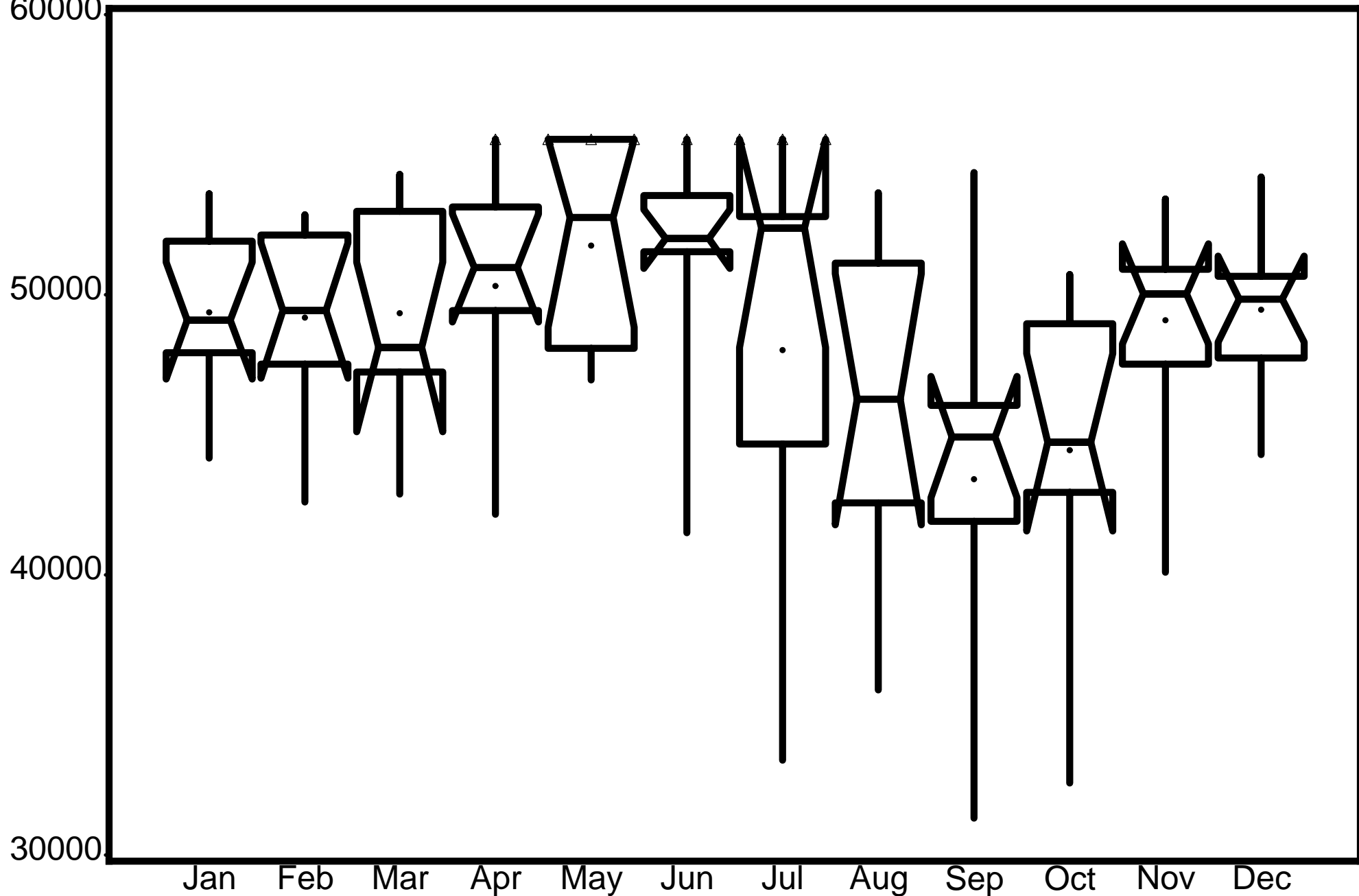


Cape Haze Trends Appendix - Display 233

Seasonal Univariate Statistics

for Surface Specific Conductance in Cape Haze

COND
($\mu\text{S}/\text{cm}$)
60000



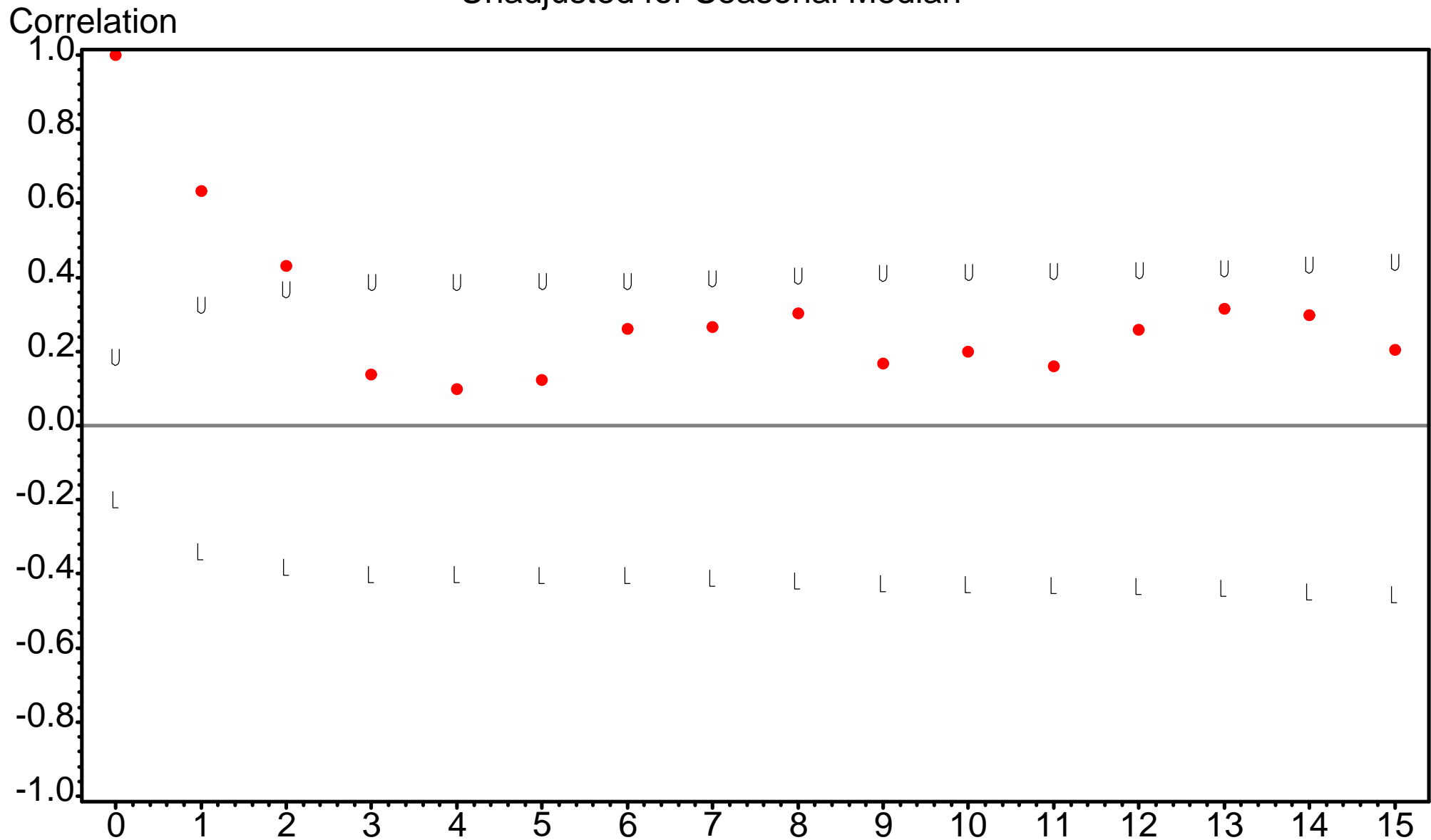
Cape Haze Trends Appendix - Display 234
Autocorrelation Statistics for Surface Specific Conductance in Cape Haze

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.634	0.167	0.333	-0.333
2	0.430	0.188	0.375	-0.375
3	0.137	0.197	0.393	-0.393
4	0.098	0.197	0.395	-0.395
5	0.122	0.198	0.396	-0.396
6	0.261	0.199	0.397	-0.397
7	0.265	0.202	0.404	-0.404
8	0.302	0.205	0.410	-0.410
9	0.167	0.209	0.418	-0.418
10	0.199	0.210	0.421	-0.421
11	0.159	0.212	0.424	-0.424
12	0.259	0.213	0.426	-0.426
13	0.315	0.216	0.432	-0.432
14	0.299	0.220	0.440	-0.440
15	0.204	0.224	0.448	-0.448

Cape Haze Trends Appendix - Display 235

Correlogram for Surface Specific Conductance in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 236
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.179	.006	.006	527.24

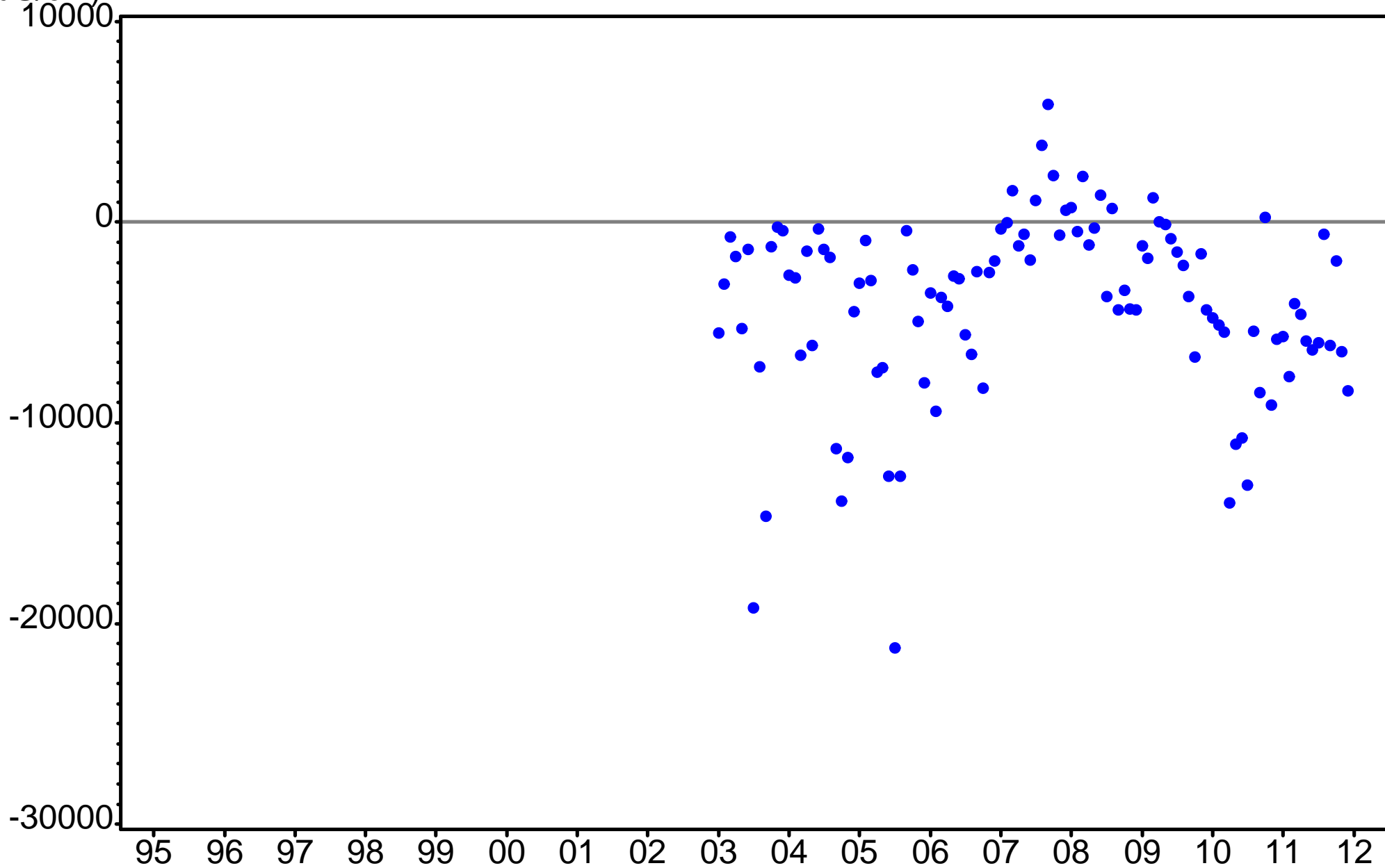
Cape Haze Trends Appendix - Display 237
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.23611	.00236762	0.21952	633.625

Cape Haze Trends Appendix - Display 238

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Cape Haze

Adjusted
($\mu\text{S}/\text{cm}$)



Zero Reference Line Shown

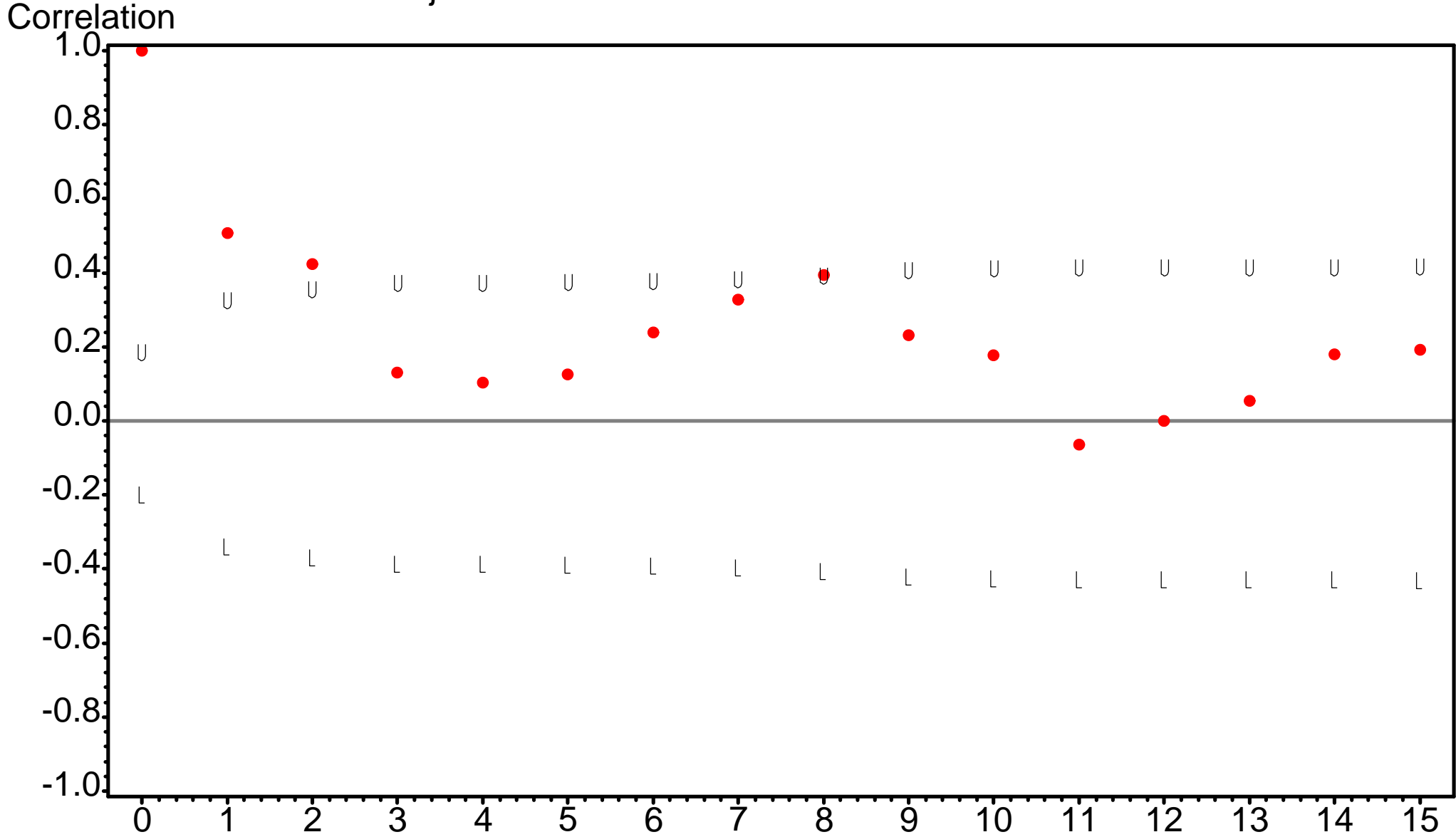
Cape Haze Trends Appendix - Display 239
Autocorrelation Statistics for Surface Specific Conductance in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.507	0.167	0.333	-0.333
2	0.424	0.180	0.361	-0.361
3	0.131	0.189	0.379	-0.379
4	0.104	0.190	0.380	-0.380
5	0.126	0.191	0.381	-0.381
6	0.240	0.192	0.383	-0.383
7	0.328	0.194	0.389	-0.389
8	0.393	0.199	0.399	-0.399
9	0.232	0.206	0.413	-0.413
10	0.178	0.209	0.418	-0.418
11	-0.064	0.210	0.420	-0.420
12	0.001	0.210	0.421	-0.421
13	0.053	0.210	0.421	-0.421
14	0.180	0.210	0.421	-0.421
15	0.191	0.212	0.424	-0.424

Cape Haze Trends Appendix - Display 240

Correlogram for Surface Specific Conductance in Cape Haze

Adjusted for Seasonal Median and Detrended



Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

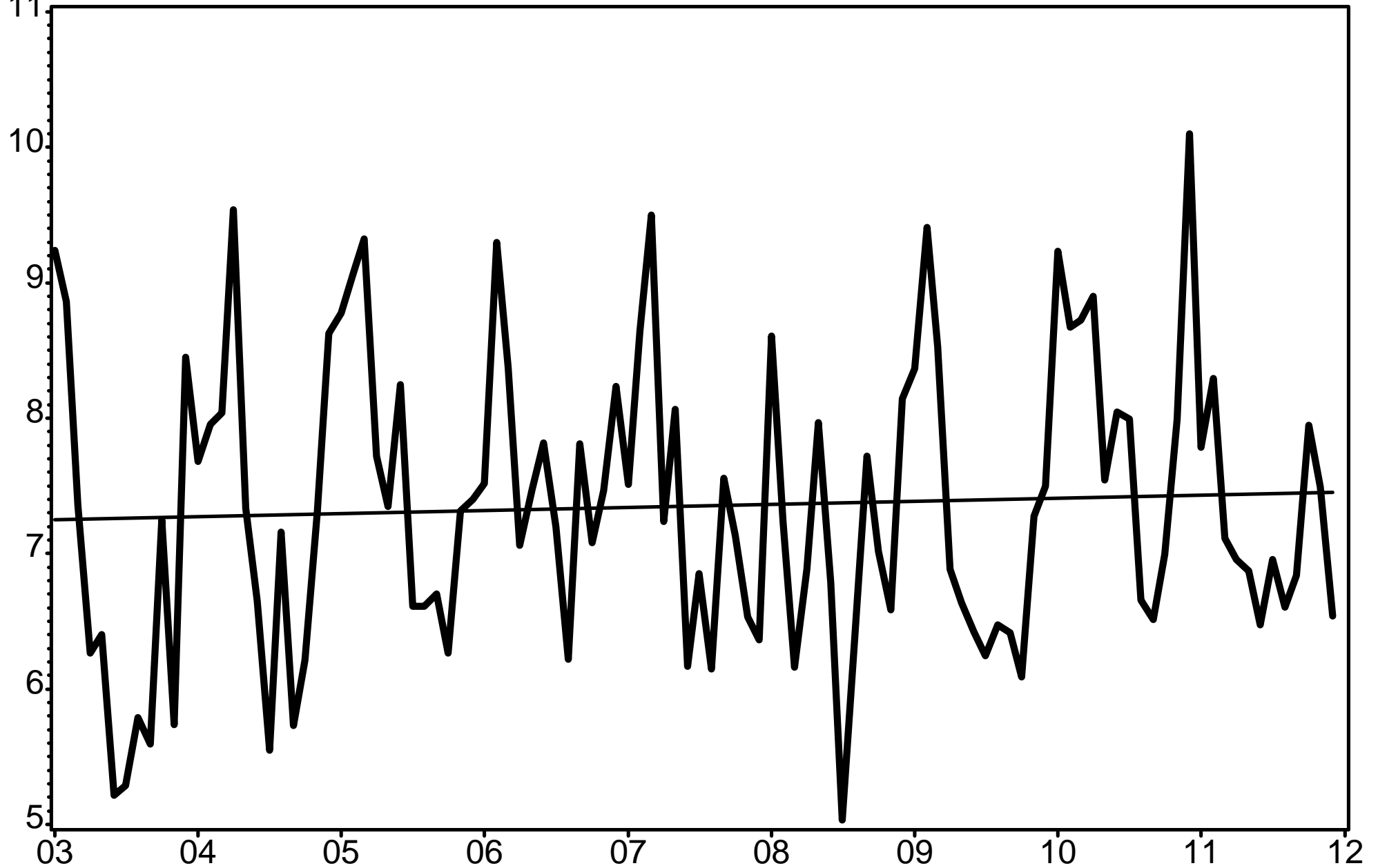
Cape Haze Trends Appendix - Display 241

Monthly Data Time Series

for Surface Dissolved Oxygen in Cape Haze

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



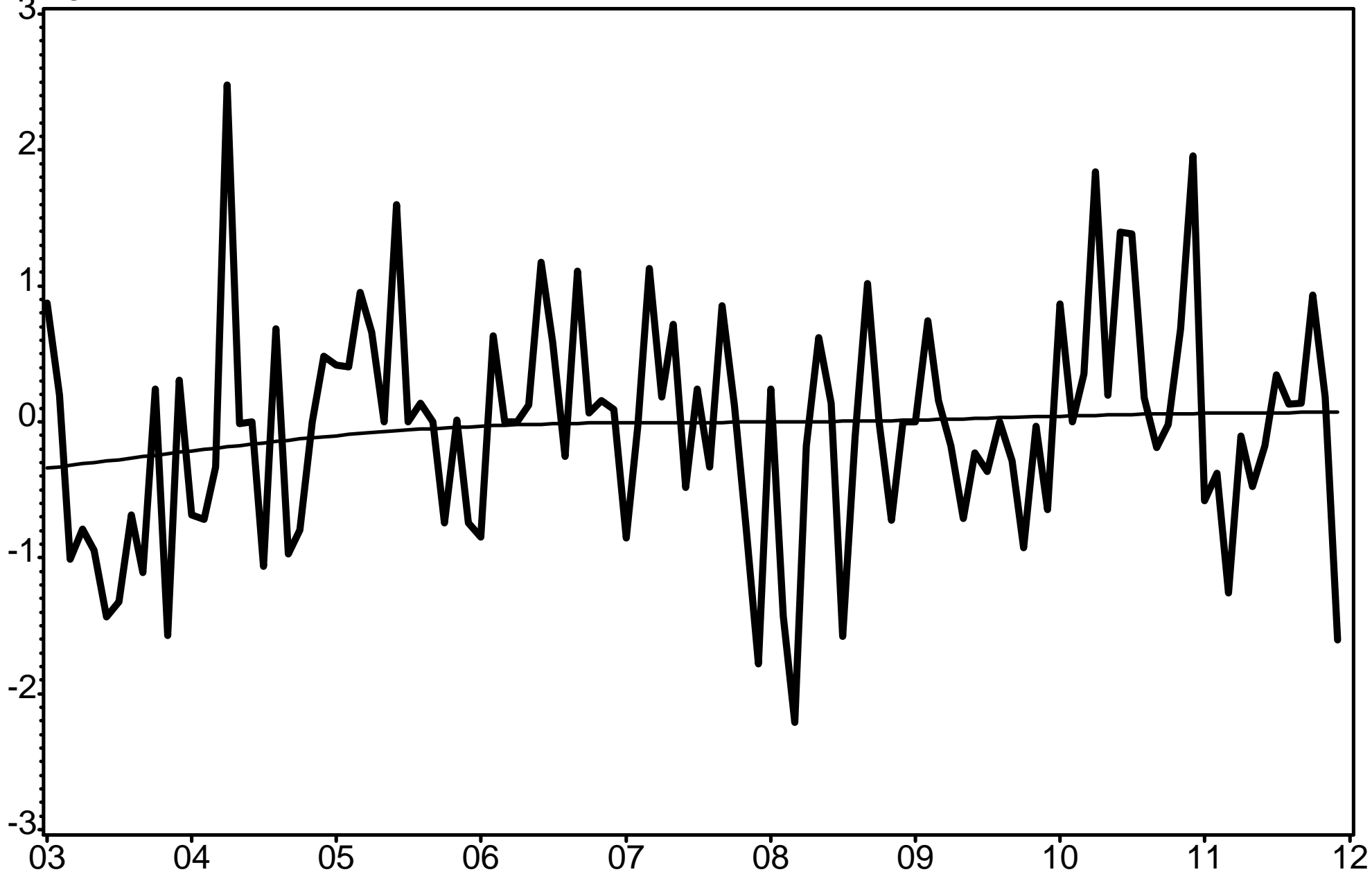
Cape Haze Trends Appendix - Display 242

Monthly Data Time Series

for Surface Dissolved Oxygen in Cape Haze

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

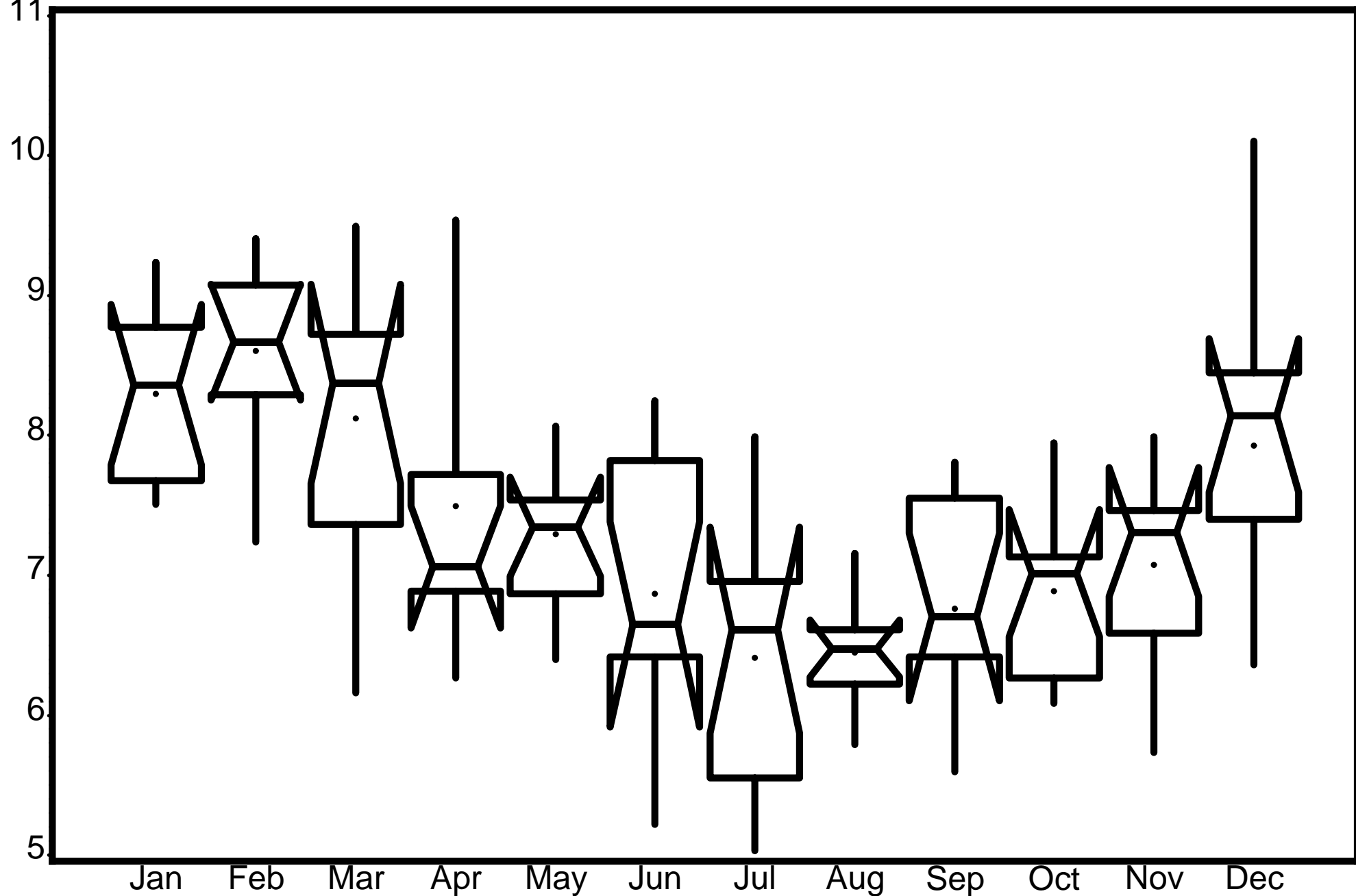


Cape Haze Trends Appendix - Display 243

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Cape Haze

DO_mgl
(mg/l)



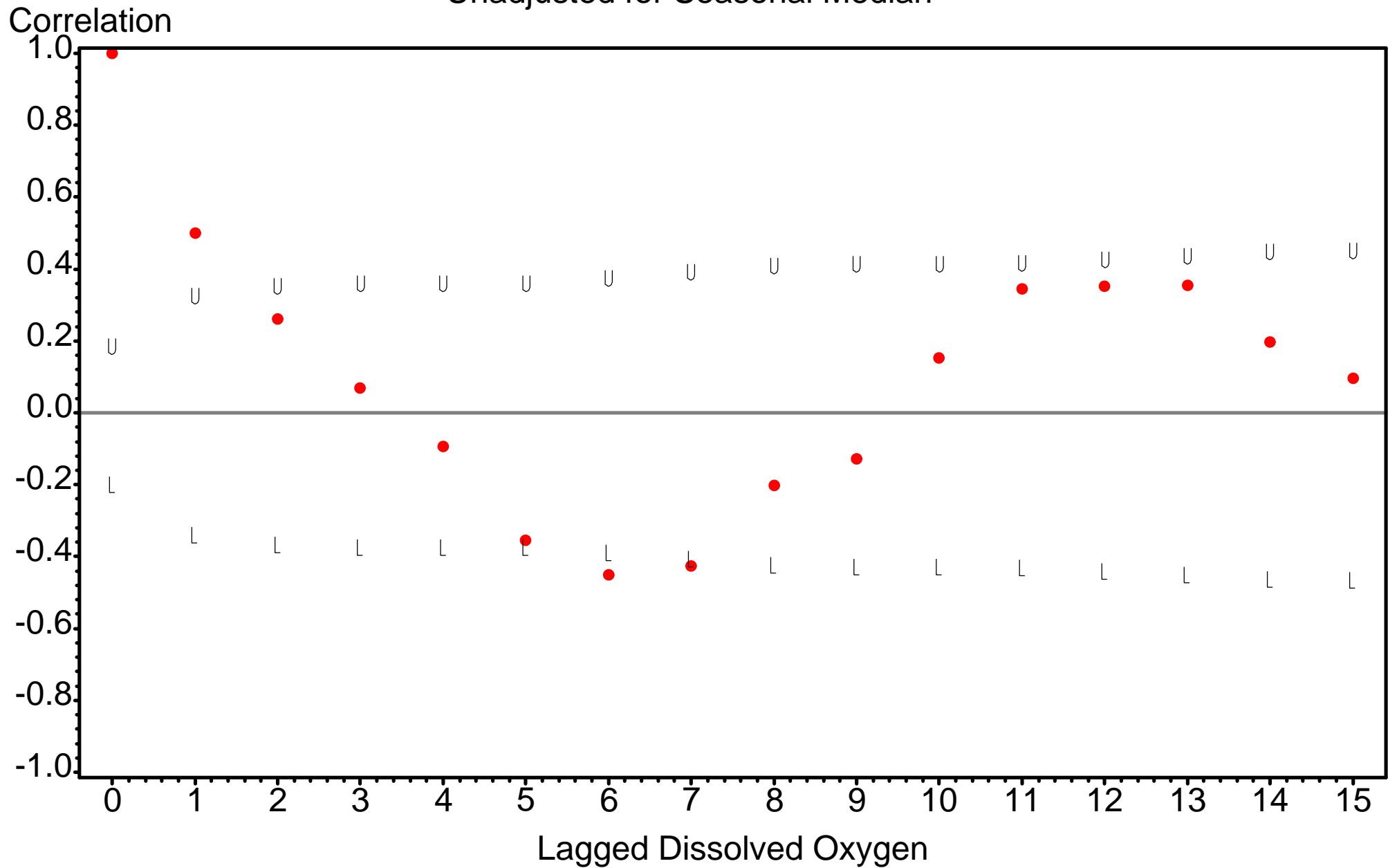
Cape Haze Trends Appendix - Display 244
Autocorrelation Statistics for Surface Dissolved Oxygen in Cape Haze

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.499	0.167	0.333	-0.333
2	0.261	0.180	0.360	-0.360
3	0.069	0.183	0.367	-0.367
4	-0.094	0.184	0.367	-0.367
5	-0.355	0.184	0.368	-0.368
6	-0.451	0.190	0.381	-0.381
7	-0.426	0.200	0.400	-0.400
8	-0.201	0.208	0.416	-0.416
9	-0.127	0.210	0.420	-0.420
10	0.152	0.211	0.421	-0.421
11	0.344	0.212	0.424	-0.424
12	0.353	0.217	0.434	-0.434
13	0.354	0.222	0.444	-0.444
14	0.196	0.227	0.455	-0.455
15	0.095	0.229	0.458	-0.458

Cape Haze Trends Appendix - Display 245

Correlogram for Surface Dissolved Oxygen in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 246
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.021	0.748	0.748	0.019

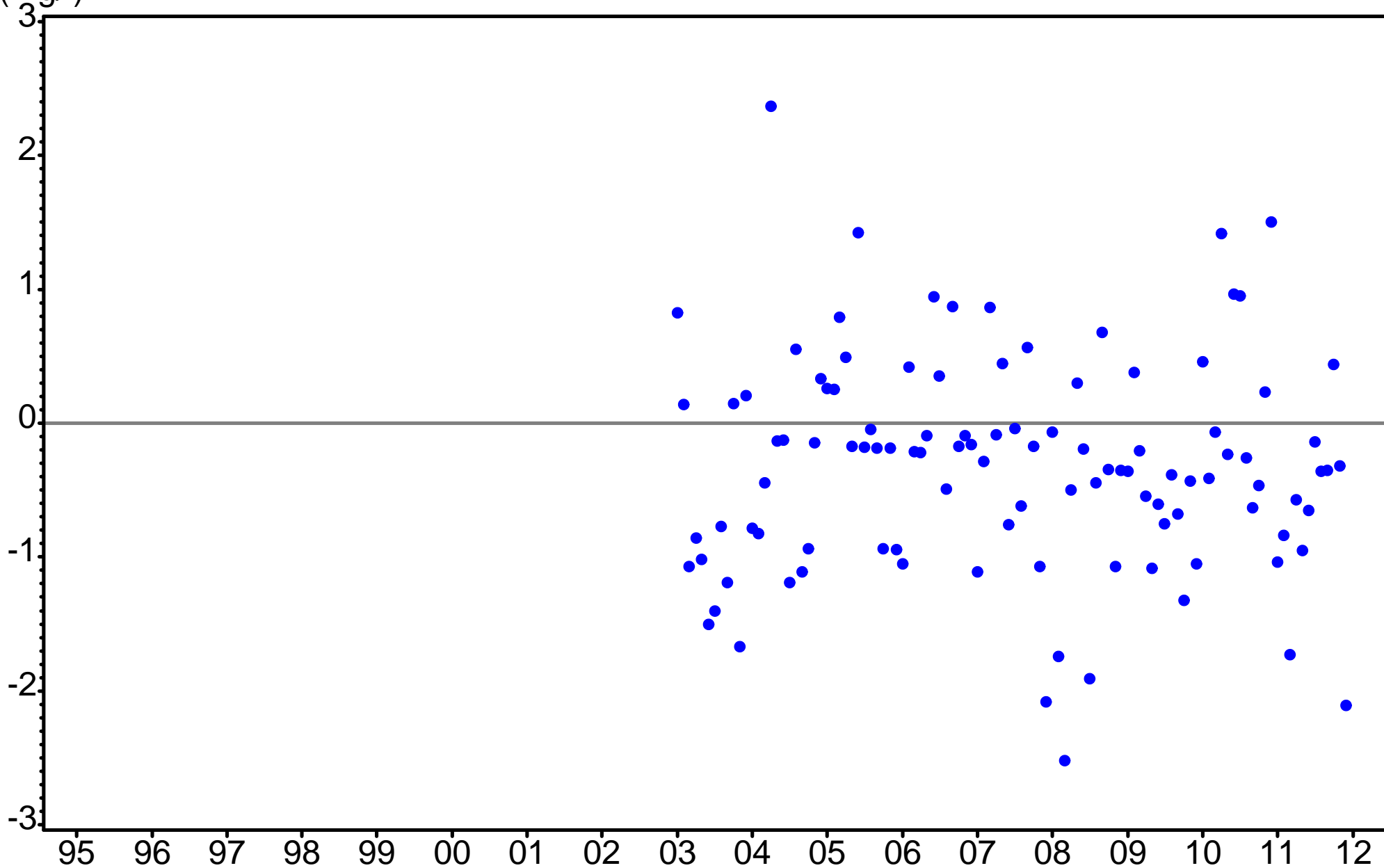
Cape Haze Trends Appendix - Display 247
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.11111	0.15721	0.33548	0.051

Cape Haze Trends Appendix - Display 248

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(mg/l)



Zero Reference Line Shown

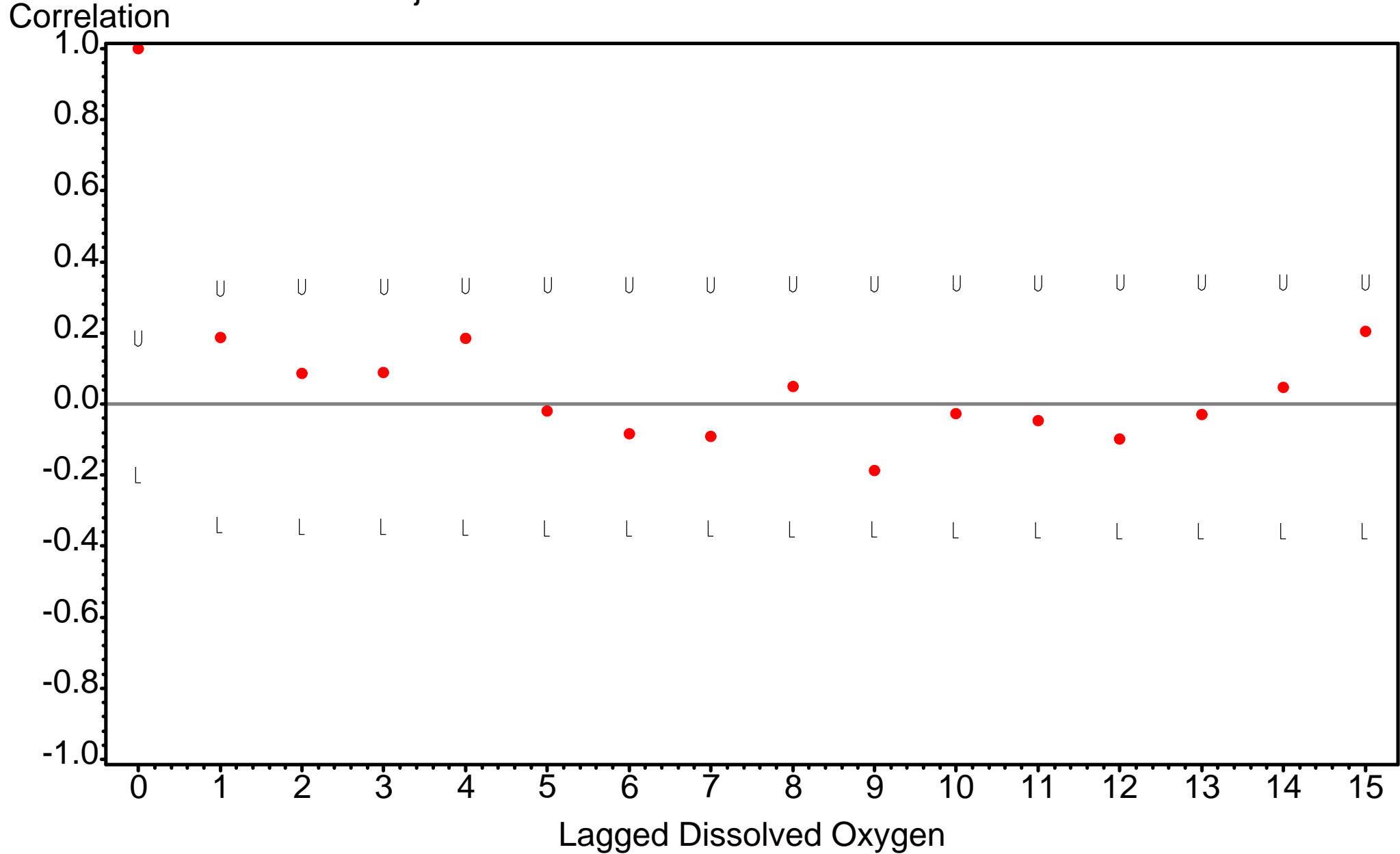
Cape Haze Trends Appendix - Display 249
Autocorrelation Statistics for Surface Dissolved Oxygen in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.188	0.167	0.333	-0.333
2	0.087	0.169	0.337	-0.337
3	0.089	0.169	0.338	-0.338
4	0.184	0.169	0.339	-0.339
5	-0.020	0.171	0.343	-0.343
6	-0.084	0.171	0.343	-0.343
7	-0.092	0.172	0.343	-0.343
8	0.049	0.172	0.344	-0.344
9	-0.187	0.172	0.345	-0.345
10	-0.028	0.174	0.348	-0.348
11	-0.047	0.174	0.348	-0.348
12	-0.099	0.174	0.349	-0.349
13	-0.029	0.175	0.350	-0.350
14	0.048	0.175	0.350	-0.350
15	0.205	0.175	0.350	-0.350

Cape Haze Trends Appendix - Display 250

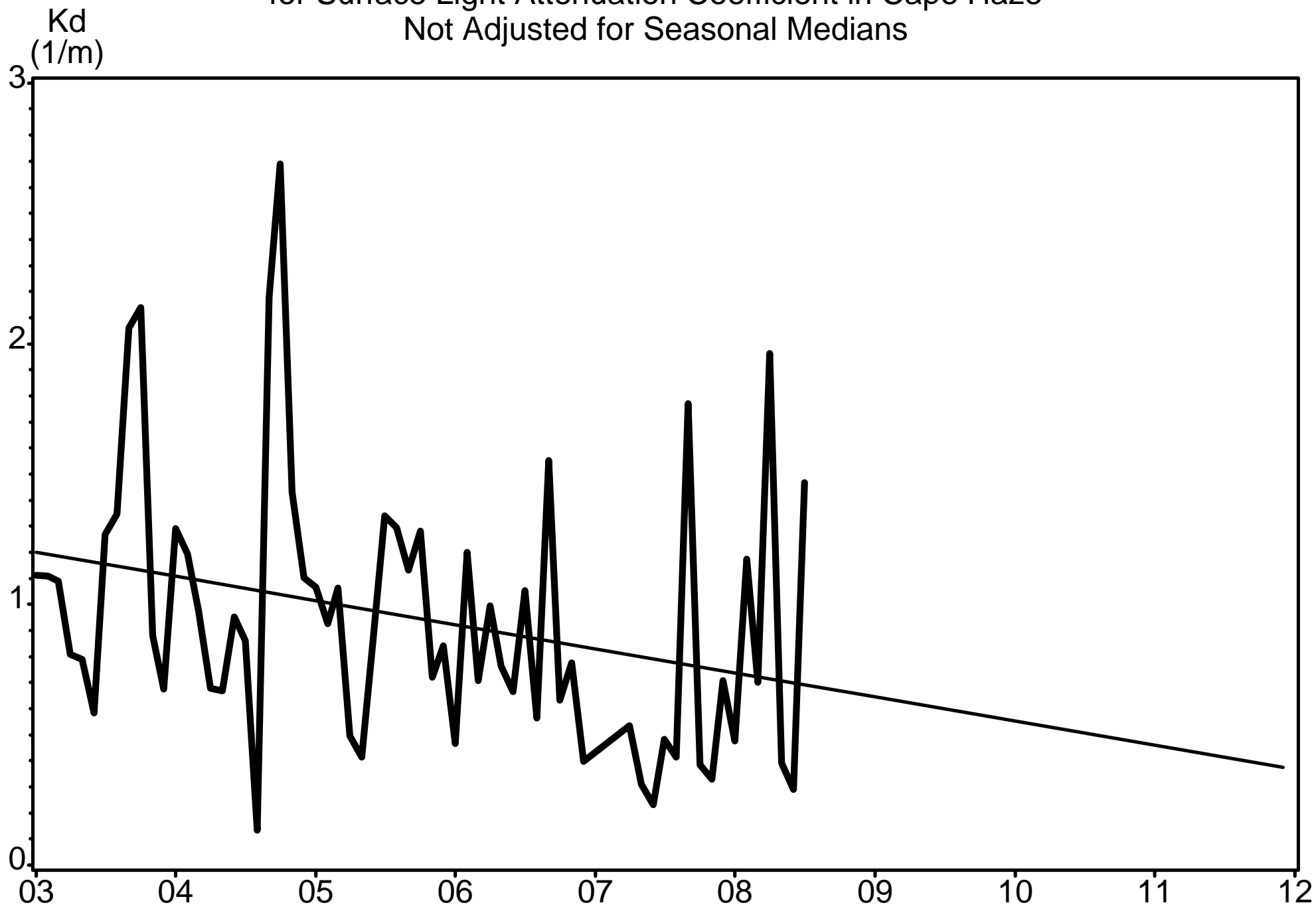
Correlogram for Surface Dissolved Oxygen in Cape Haze

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 251
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Cape Haze
Not Adjusted for Seasonal Medians

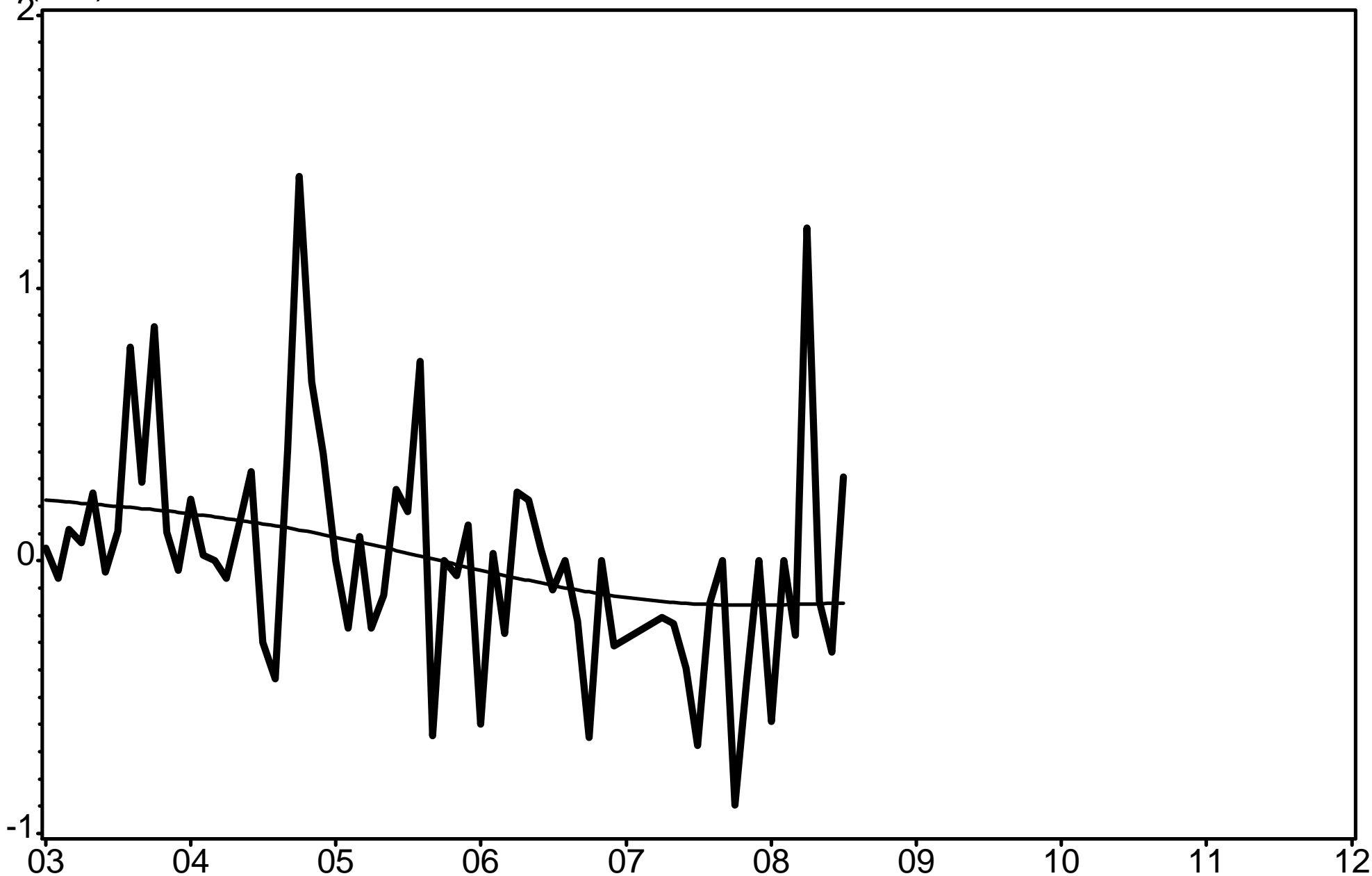


Cape Haze Trends Appendix - Display 252

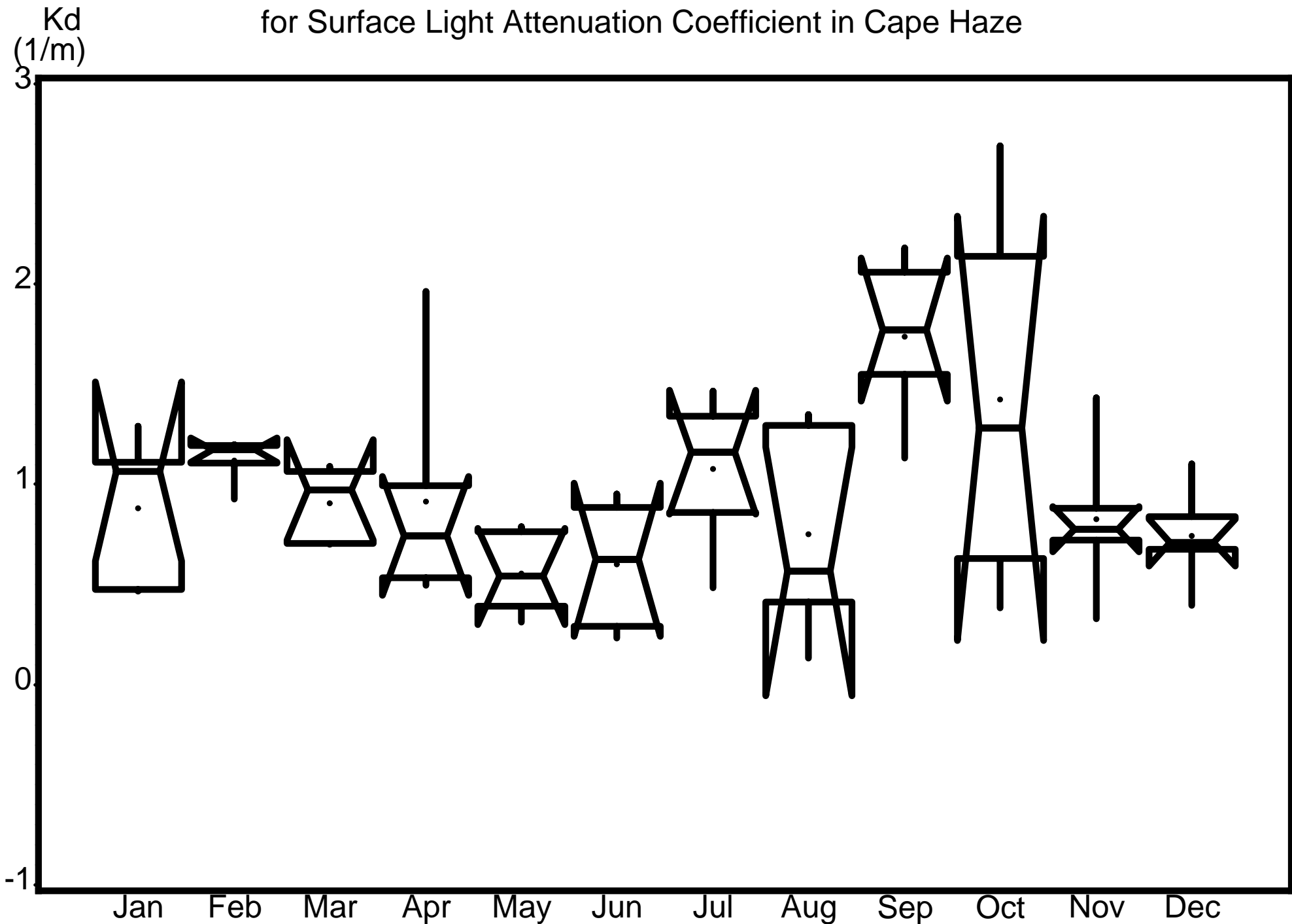
Monthly Data Time Series

for Surface Light Attenuation Coefficient in Cape Haze
Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Cape Haze Trends Appendix - Display 253
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Cape Haze



Cape Haze Trends Appendix - Display 254

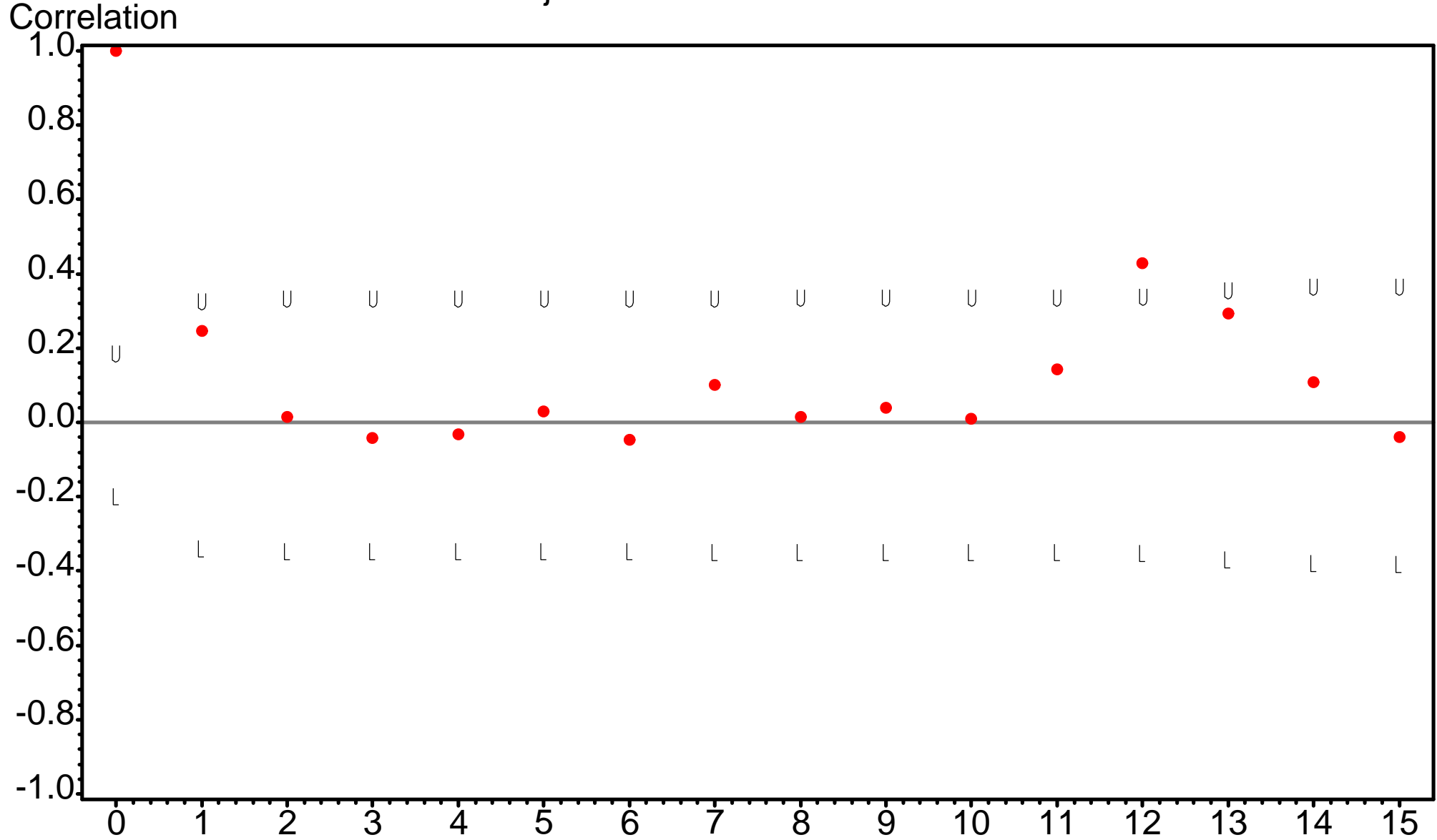
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Cape Haze

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.246	0.167	0.333	-0.333
2	0.015	0.170	0.340	-0.340
3	-0.042	0.170	0.340	-0.340
4	-0.032	0.170	0.340	-0.340
5	0.030	0.170	0.340	-0.340
6	-0.046	0.170	0.340	-0.340
7	0.101	0.170	0.341	-0.341
8	0.015	0.171	0.342	-0.342
9	0.039	0.171	0.342	-0.342
10	0.011	0.171	0.342	-0.342
11	0.142	0.171	0.342	-0.342
12	0.429	0.172	0.344	-0.344
13	0.294	0.182	0.363	-0.363
14	0.108	0.186	0.372	-0.372
15	-0.040	0.187	0.373	-0.373

Cape Haze Trends Appendix - Display 255

Correlogram for Surface Light Attenuation Coefficient in Cape Haze

Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Cape Haze Trends Appendix - Display 256
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Cape Haze
Unadjusted for Seasonal Medians

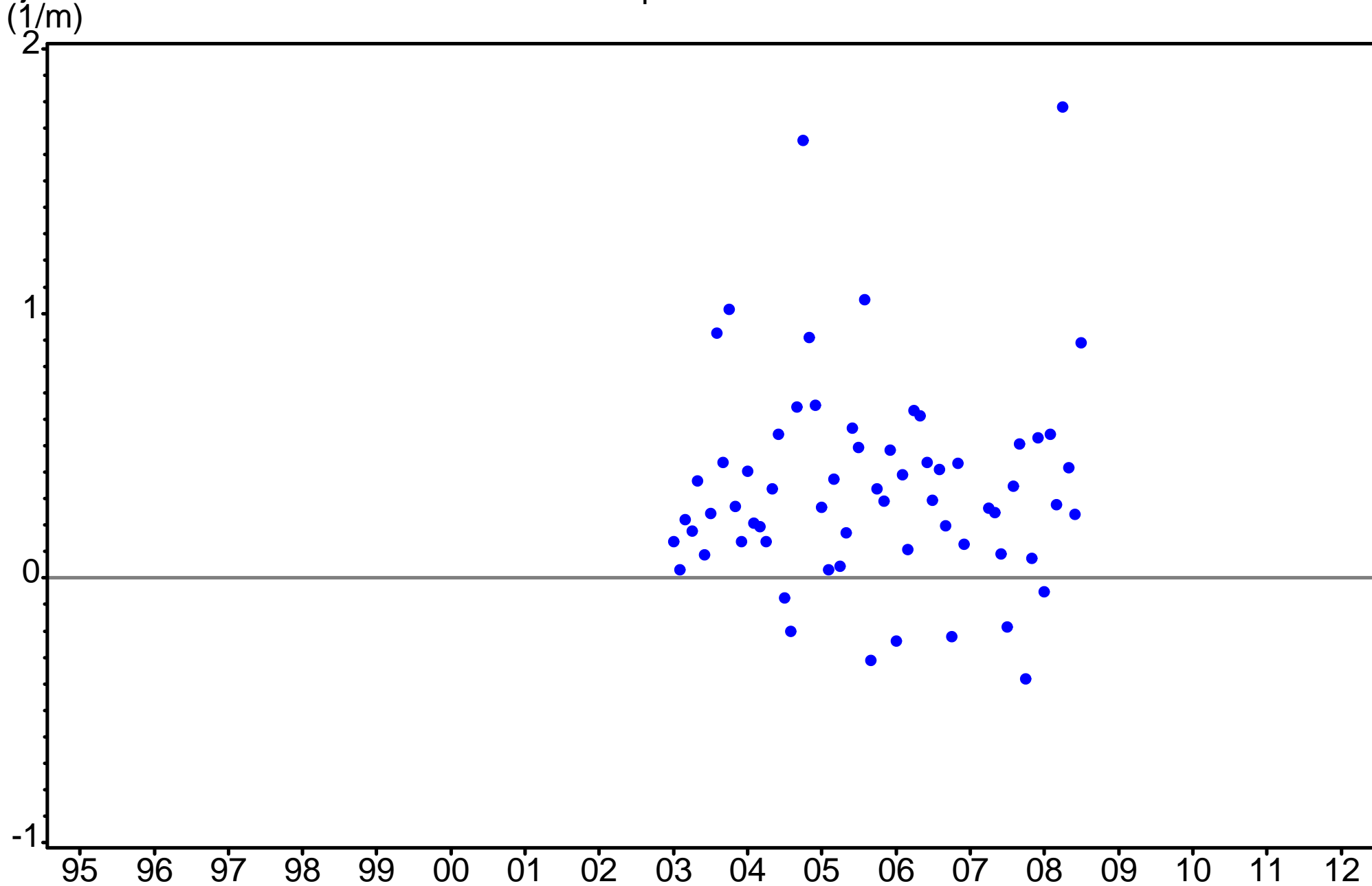
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.267	.002	.002	-0.113

Cape Haze Trends Appendix - Display 257
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.32857	.00416702	0.069211	-0.0895

Cape Haze Trends Appendix - Display 258

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Cape Haze



Zero Reference Line Shown

Cape Haze Trends Appendix - Display 259

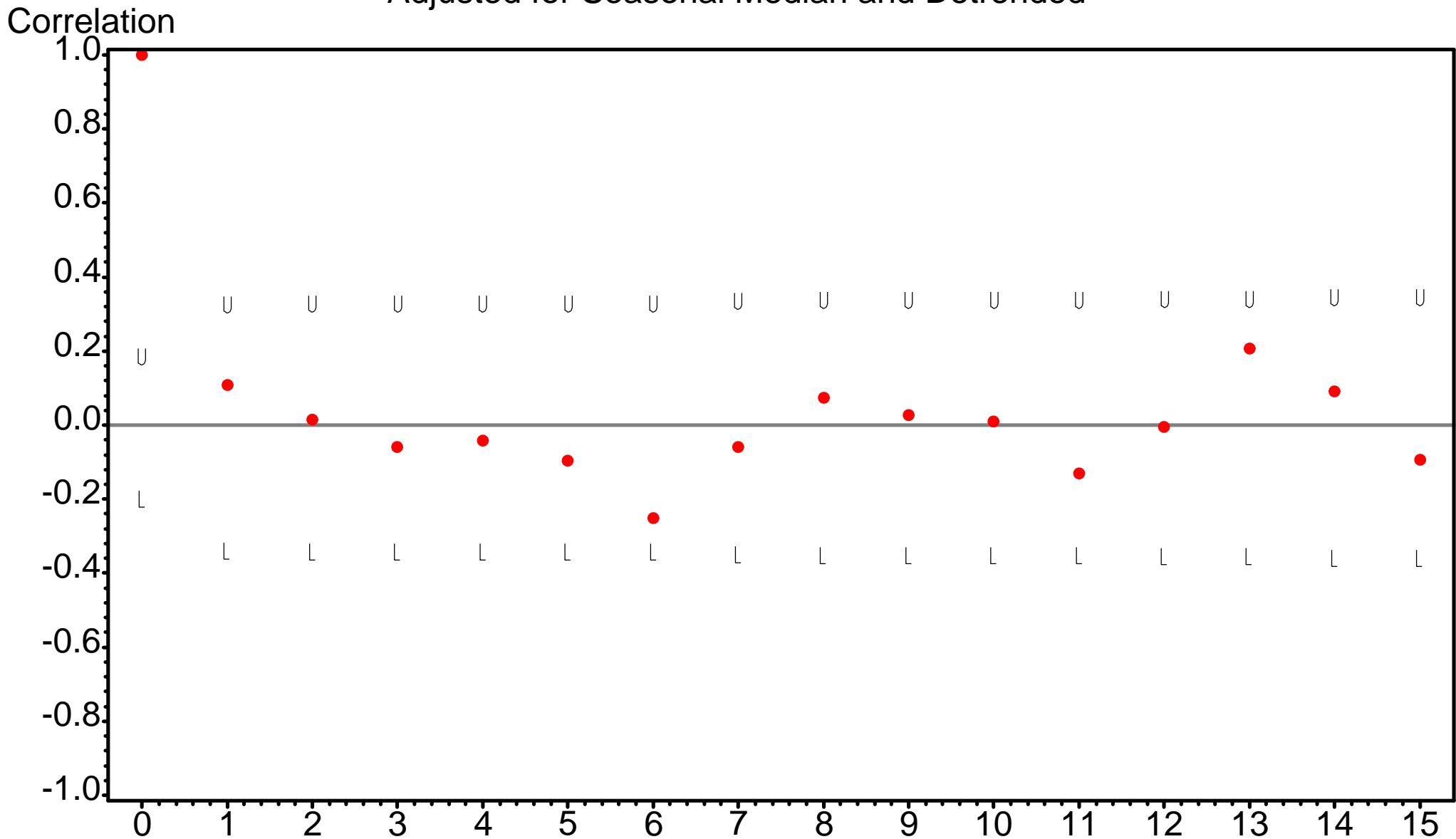
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.109	0.167	0.333	-0.333
2	0.016	0.167	0.335	-0.335
3	-0.060	0.167	0.335	-0.335
4	-0.042	0.168	0.335	-0.335
5	-0.095	0.168	0.335	-0.335
6	-0.252	0.168	0.336	-0.336
7	-0.059	0.172	0.343	-0.343
8	0.073	0.172	0.344	-0.344
9	0.028	0.172	0.344	-0.344
10	0.010	0.172	0.344	-0.344
11	-0.131	0.172	0.344	-0.344
12	-0.005	0.173	0.346	-0.346
13	0.208	0.173	0.346	-0.346
14	0.092	0.175	0.351	-0.351
15	-0.094	0.176	0.352	-0.352

Cape Haze Trends Appendix - Display 260

Correlogram for Surface Light Attenuation Coefficient in Cape Haze

Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

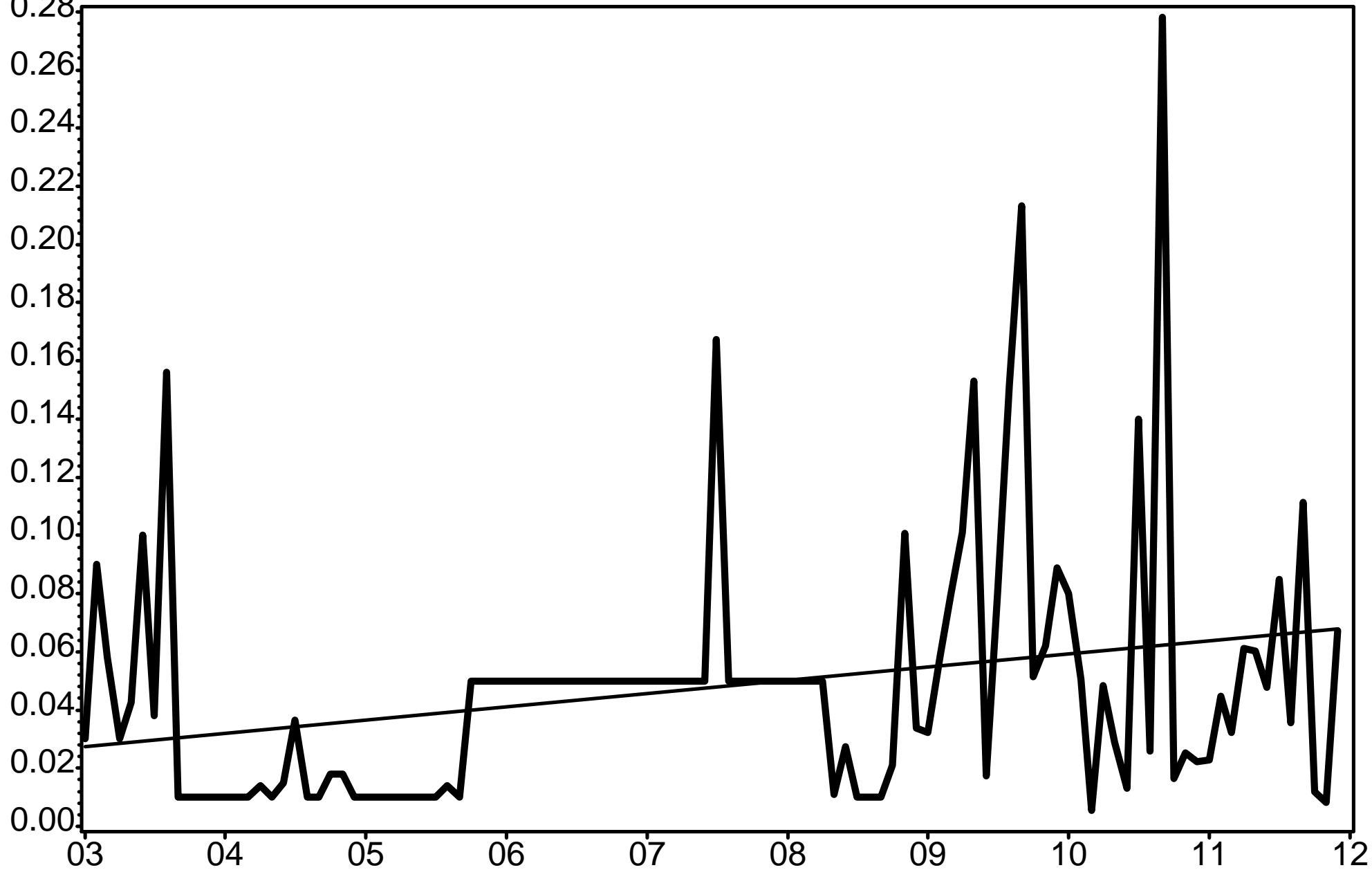
Cape Haze Trends Appendix - Display 261

Monthly Data Time Series

for Surface Ammonia as N Total in Cape Haze

Not Adjusted for Seasonal Medians

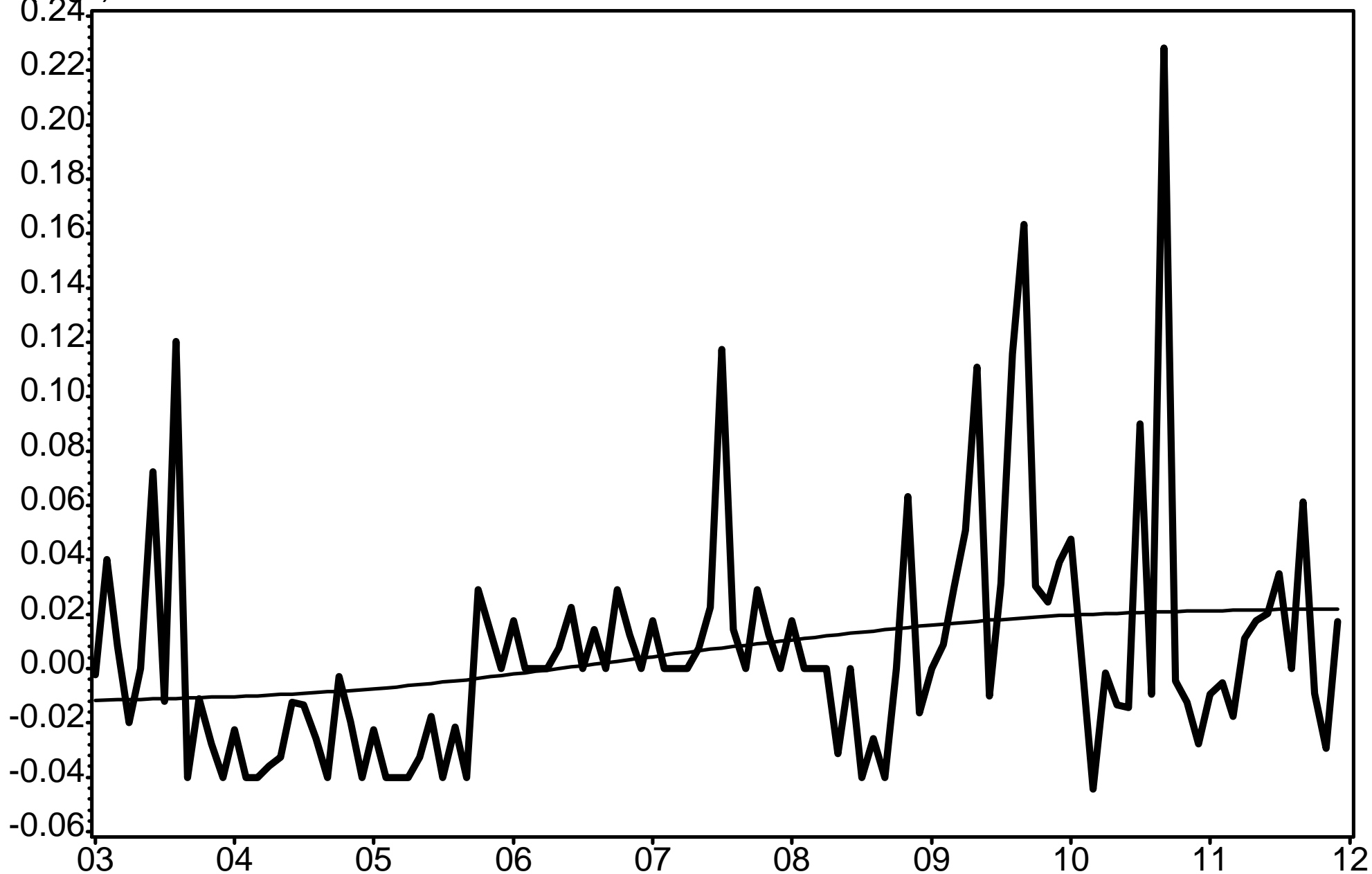
NH3_mgl
(mg/l)



Cape Haze Trends Appendix - Display 262

Monthly Data Time Series
for Surface Ammonia as N Total in Cape Haze
Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

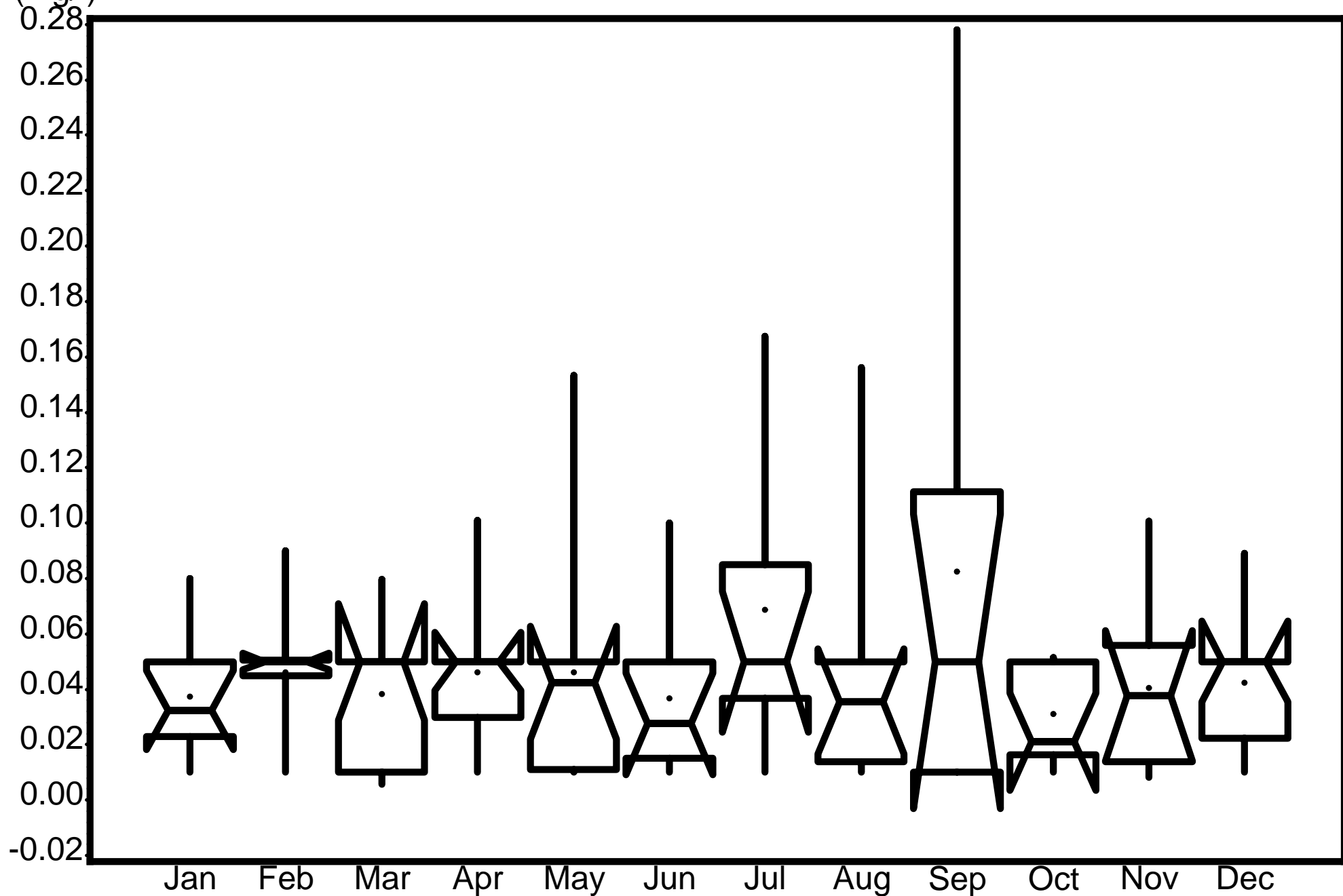


Cape Haze Trends Appendix - Display 263

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Cape Haze

NH3_mgl
(mg/l)



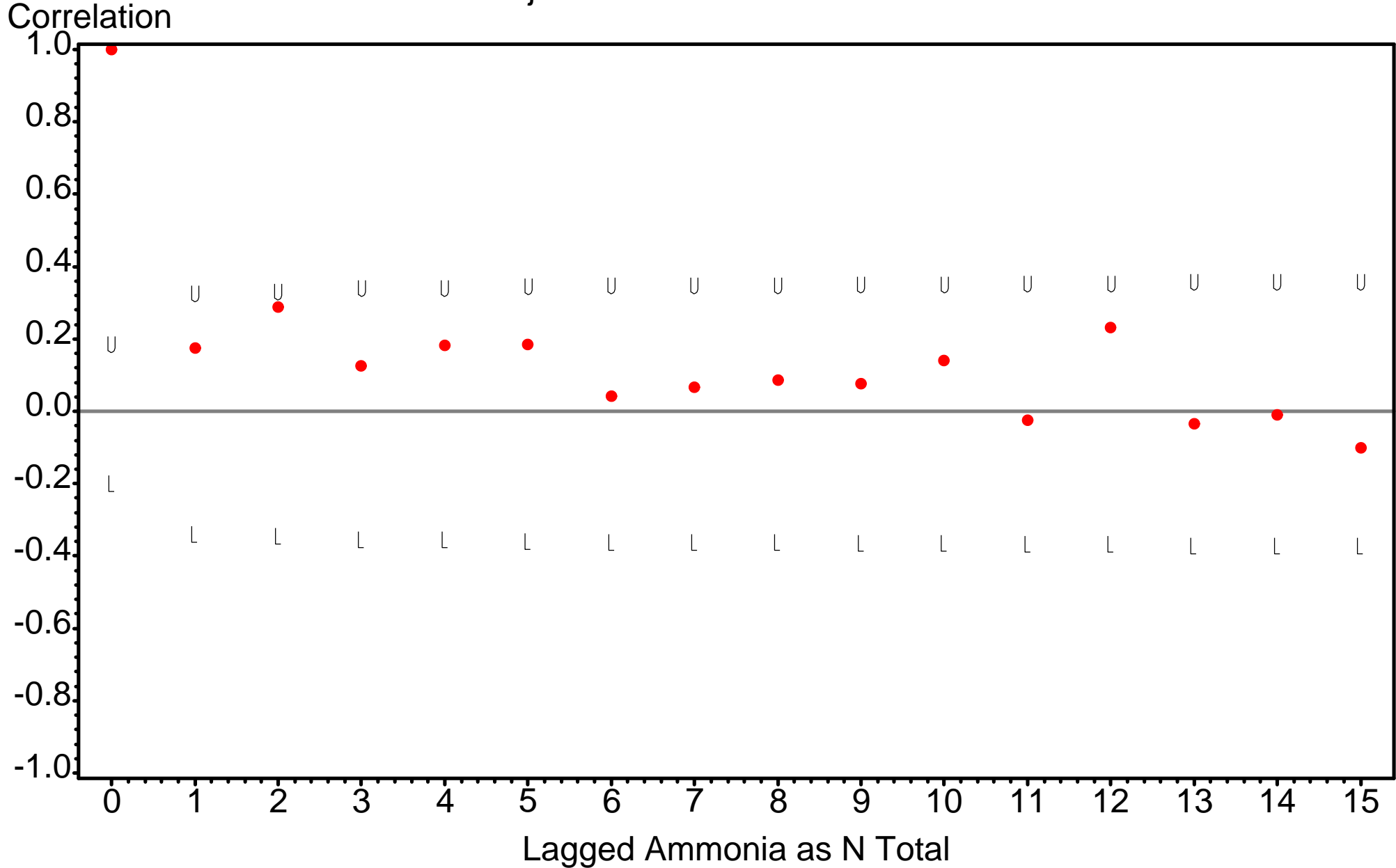
Cape Haze Trends Appendix - Display 264
Autocorrelation Statistics for Surface Ammonia as N Total in Cape Haze

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.174	0.167	0.333	-0.333
2	0.287	0.168	0.337	-0.337
3	0.125	0.173	0.346	-0.346
4	0.182	0.174	0.347	-0.347
5	0.185	0.175	0.351	-0.351
6	0.042	0.177	0.354	-0.354
7	0.066	0.177	0.355	-0.355
8	0.086	0.178	0.355	-0.355
9	0.077	0.178	0.356	-0.356
10	0.141	0.178	0.356	-0.356
11	-0.025	0.179	0.359	-0.359
12	0.232	0.179	0.359	-0.359
13	-0.034	0.182	0.364	-0.364
14	-0.010	0.182	0.364	-0.364
15	-0.100	0.182	0.364	-0.364

Cape Haze Trends Appendix - Display 265

Correlogram for Surface Ammonia as N Total in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 266
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.214	.001	.001	.002

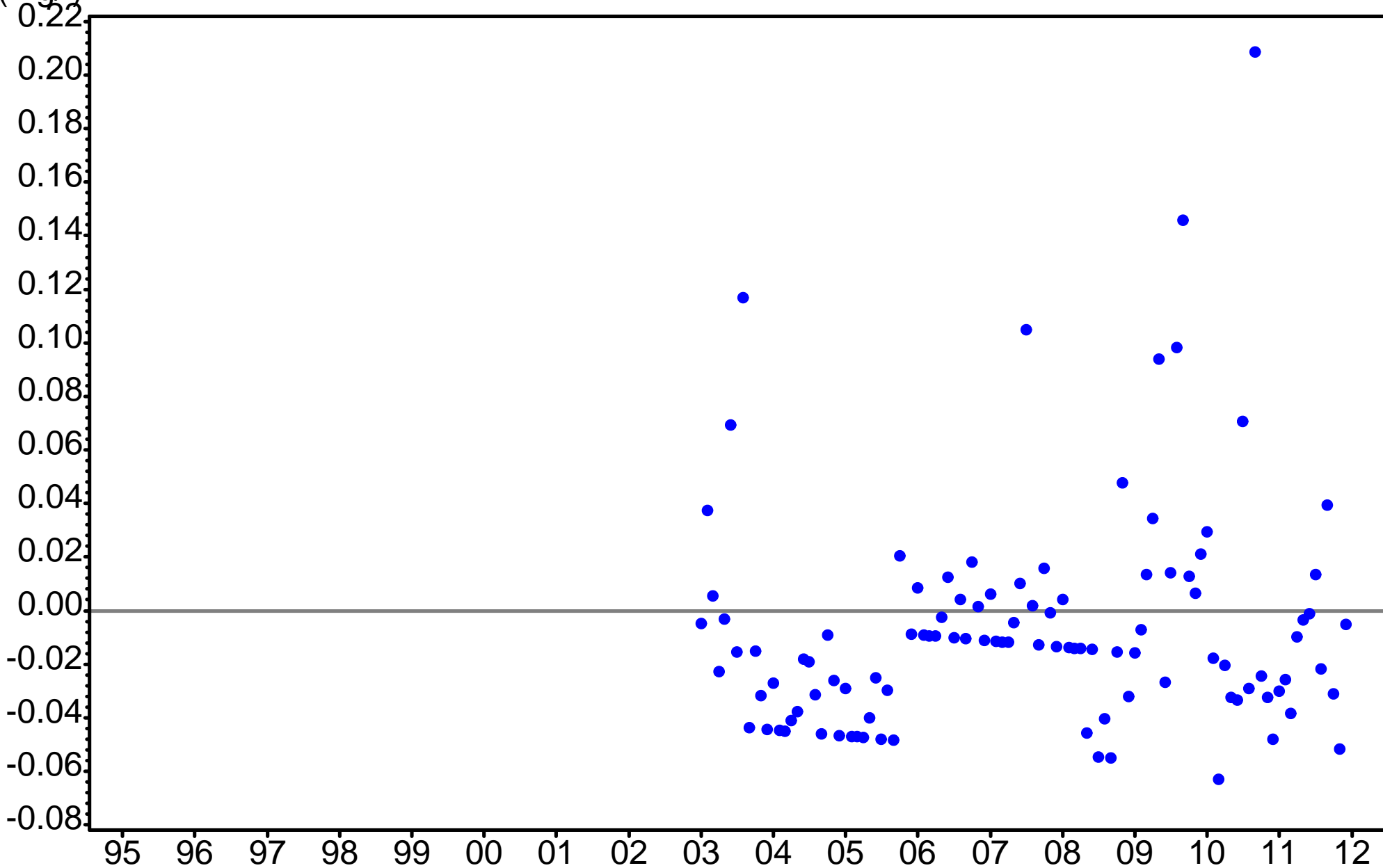
Cape Haze Trends Appendix - Display 267
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.20047	.00885046	0.22977	.00226786

Cape Haze Trends Appendix - Display 268

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Adjusted Cape Haze

Adjusted
(mg/l)



Zero Reference Line Shown

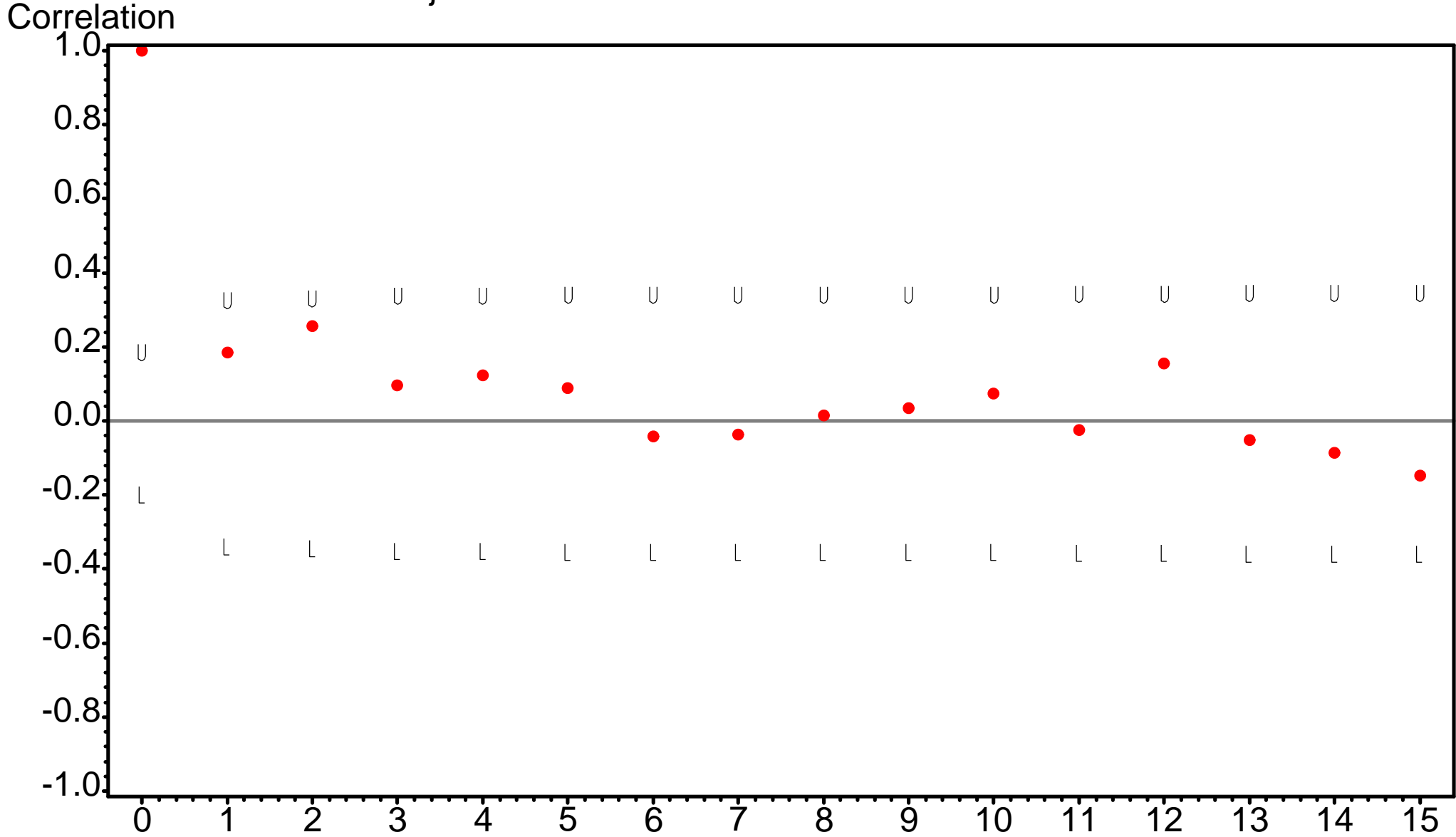
Cape Haze Trends Appendix - Display 269
Autocorrelation Statistics for Surface Ammonia as N Total in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.185	0.167	0.333	-0.333
2	0.255	0.169	0.337	-0.337
3	0.095	0.172	0.344	-0.344
4	0.123	0.173	0.345	-0.345
5	0.088	0.173	0.347	-0.347
6	-0.041	0.174	0.348	-0.348
7	-0.038	0.174	0.348	-0.348
8	0.016	0.174	0.348	-0.348
9	0.035	0.174	0.348	-0.348
10	0.074	0.174	0.348	-0.348
11	-0.024	0.174	0.349	-0.349
12	0.155	0.174	0.349	-0.349
13	-0.052	0.176	0.351	-0.351
14	-0.086	0.176	0.352	-0.352
15	-0.148	0.176	0.352	-0.352

Cape Haze Trends Appendix - Display 270

Correlogram for Surface Ammonia as N Total in Cape Haze

Adjusted for Seasonal Median and Detrended



Lagged Ammonia as N Total

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

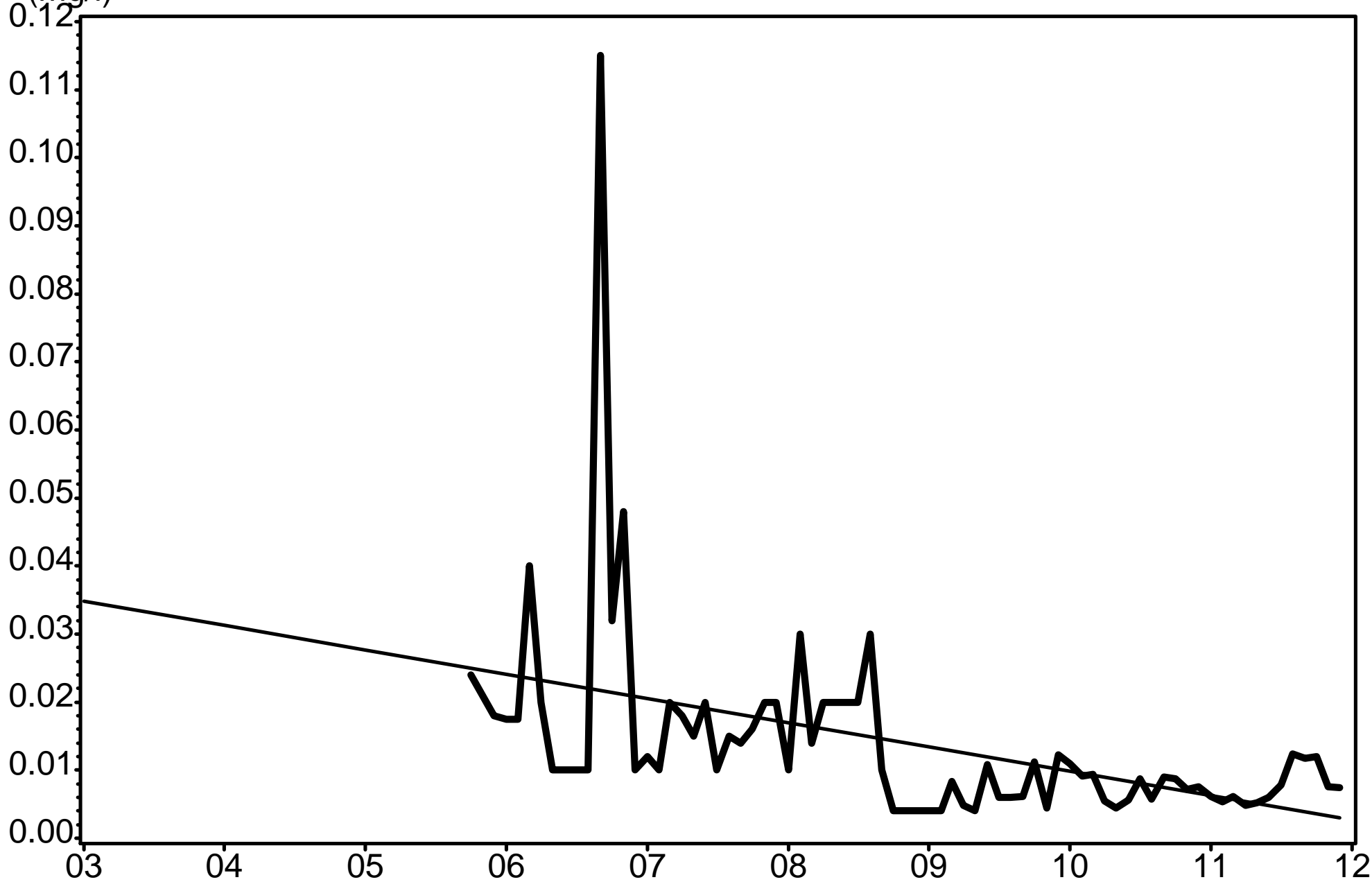
Cape Haze Trends Appendix - Display 271

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

Not Adjusted for Seasonal Medians

NO23_mgl
(mg/l)



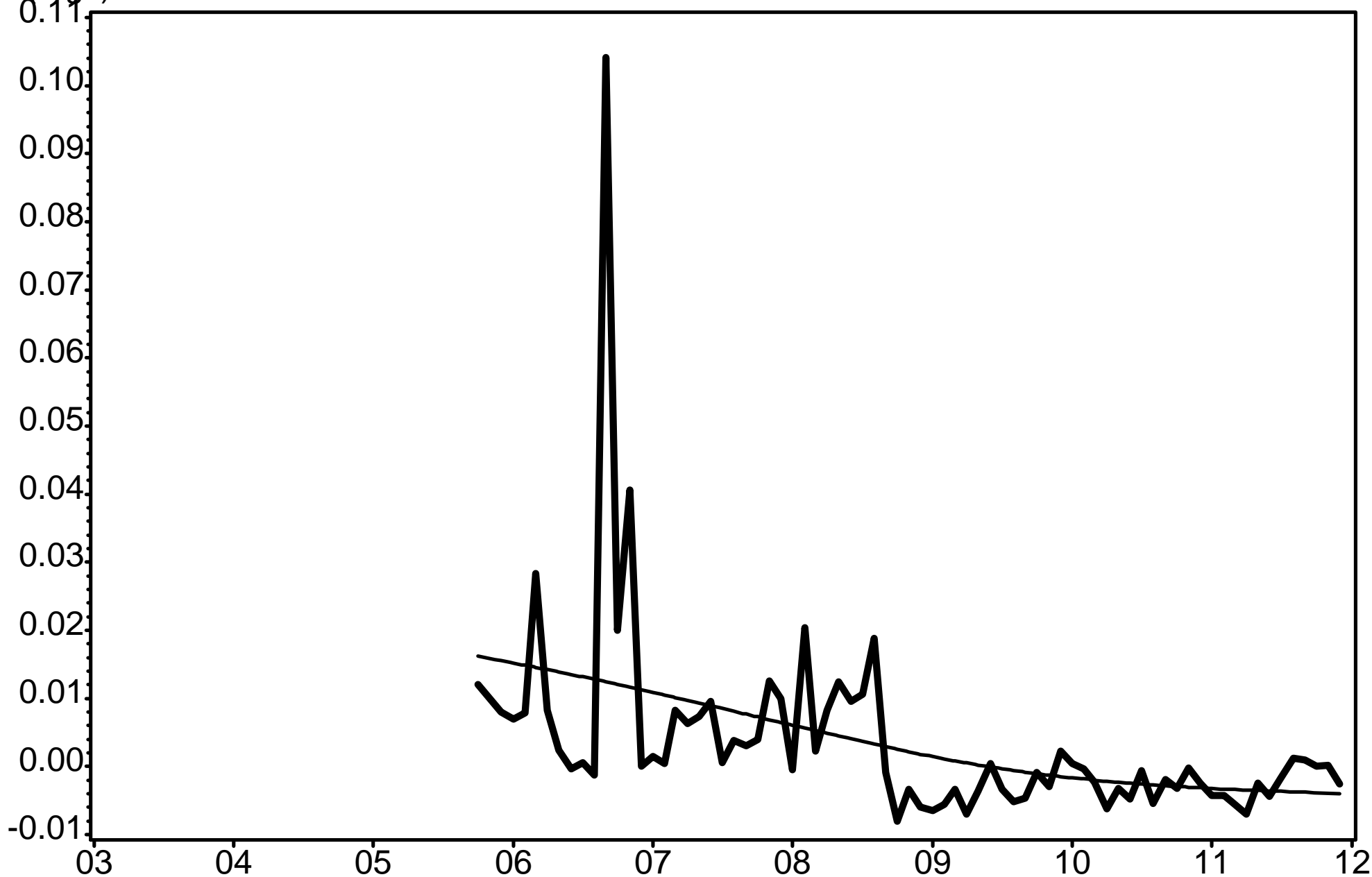
Cape Haze Trends Appendix - Display 272

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

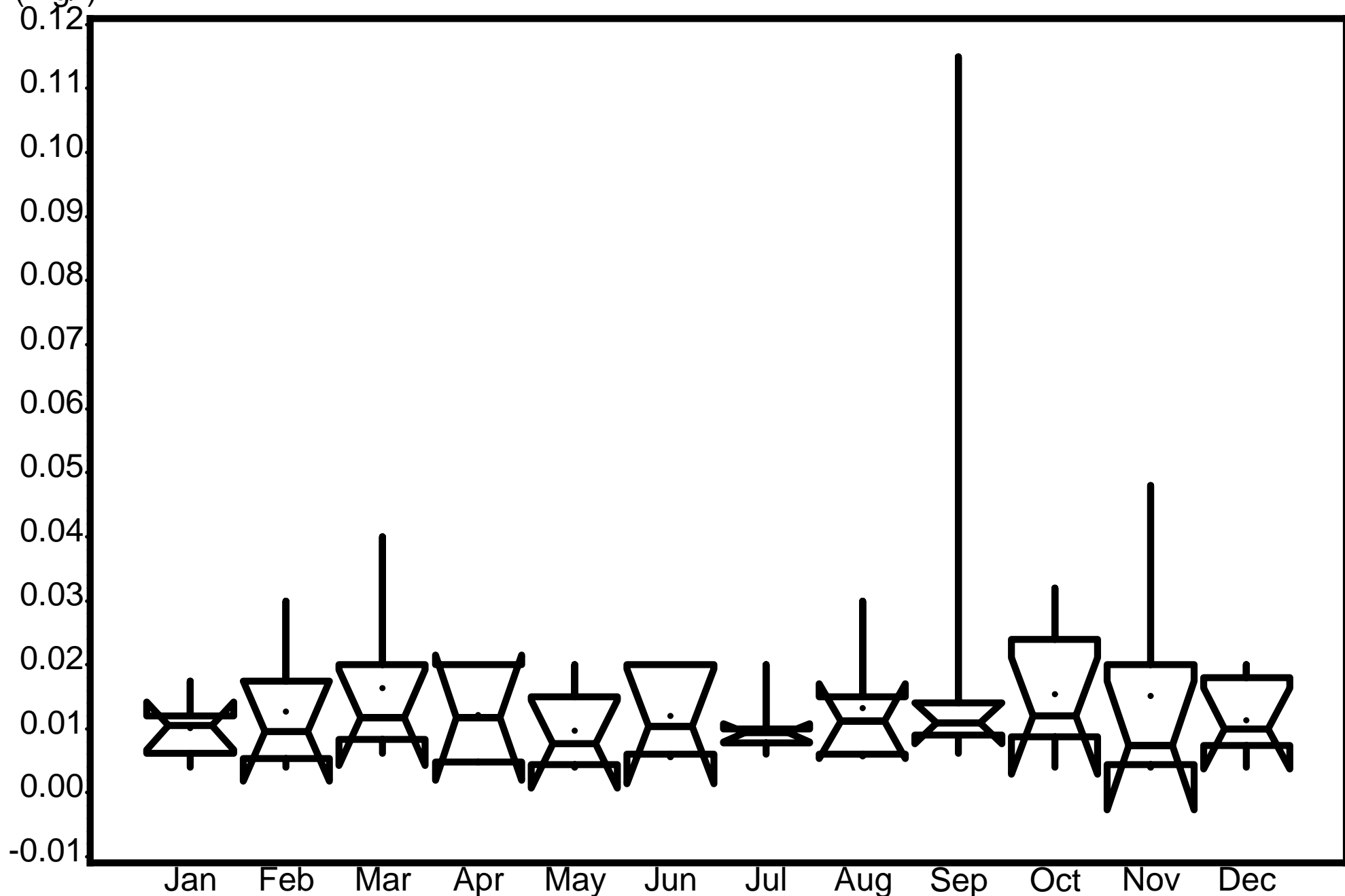


Cape Haze Trends Appendix - Display 273

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

NO23_mgl
(mg/l)



Cape Haze Trends Appendix - Display 274

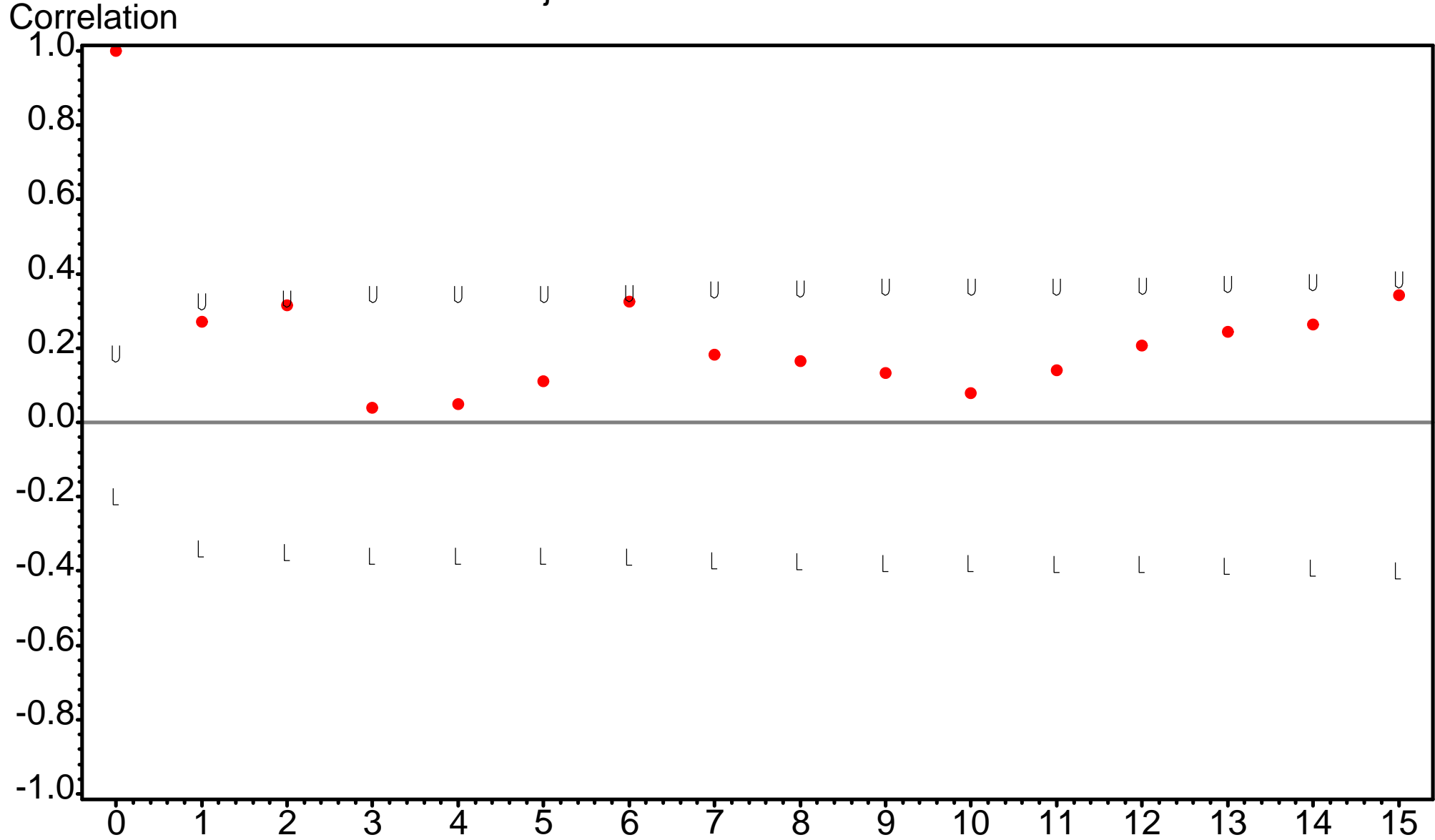
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.270	0.167	0.333	-0.333
2	0.315	0.171	0.341	-0.341
3	0.040	0.176	0.352	-0.352
4	0.049	0.176	0.352	-0.352
5	0.112	0.176	0.352	-0.352
6	0.326	0.177	0.354	-0.354
7	0.181	0.182	0.365	-0.365
8	0.166	0.184	0.368	-0.368
9	0.134	0.185	0.371	-0.371
10	0.080	0.186	0.372	-0.372
11	0.141	0.187	0.373	-0.373
12	0.208	0.188	0.375	-0.375
13	0.244	0.190	0.379	-0.379
14	0.263	0.193	0.385	-0.385
15	0.343	0.196	0.392	-0.392

Cape Haze Trends Appendix - Display 275

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 276
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.374	0	0	-.002

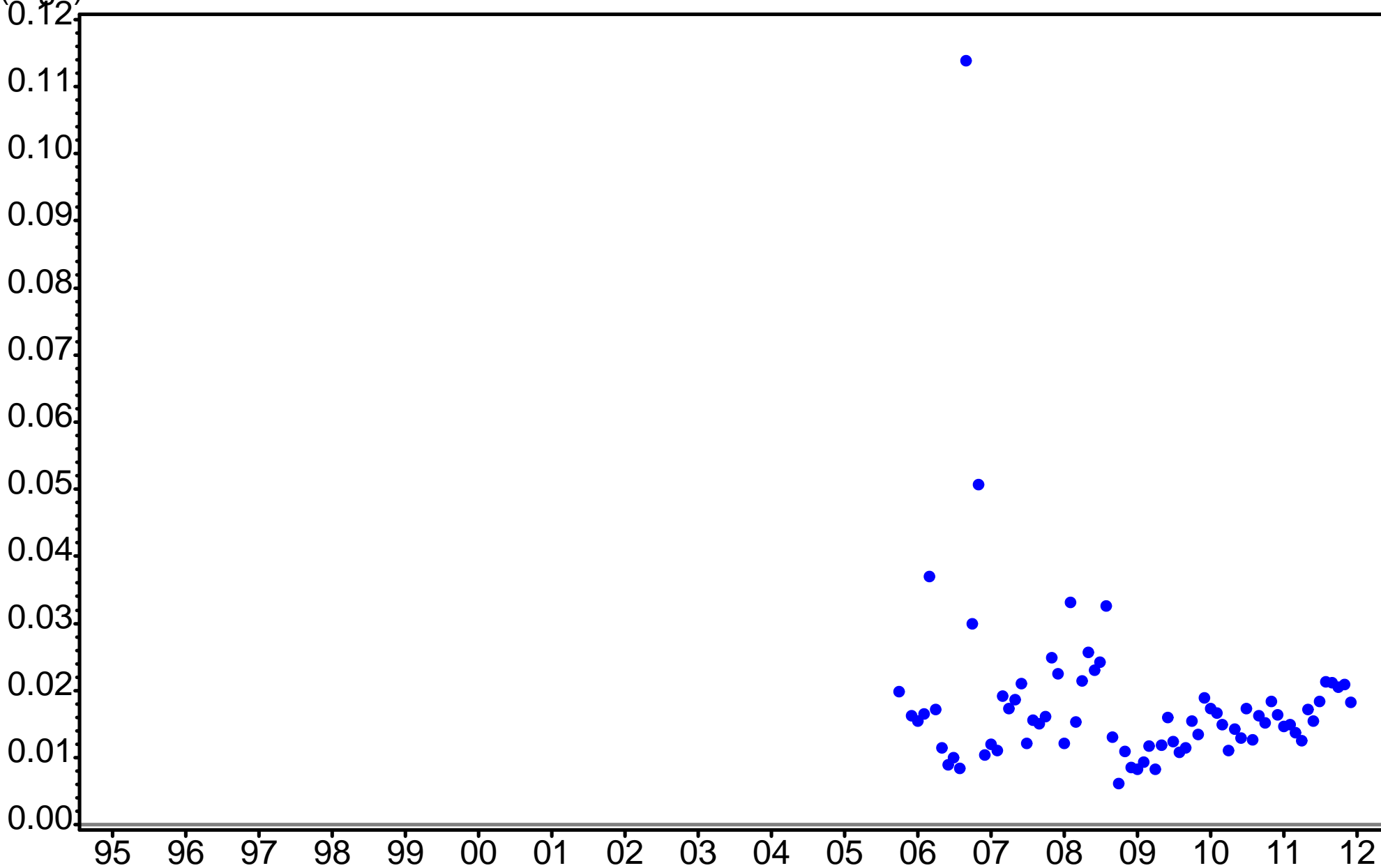
Cape Haze Trends Appendix - Display 277
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.44271	.000010520	0.062421	-.0021

Cape Haze Trends Appendix - Display 278

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted Cape Haze

(mg/l)



Cape Haze Trends Appendix - Display 279

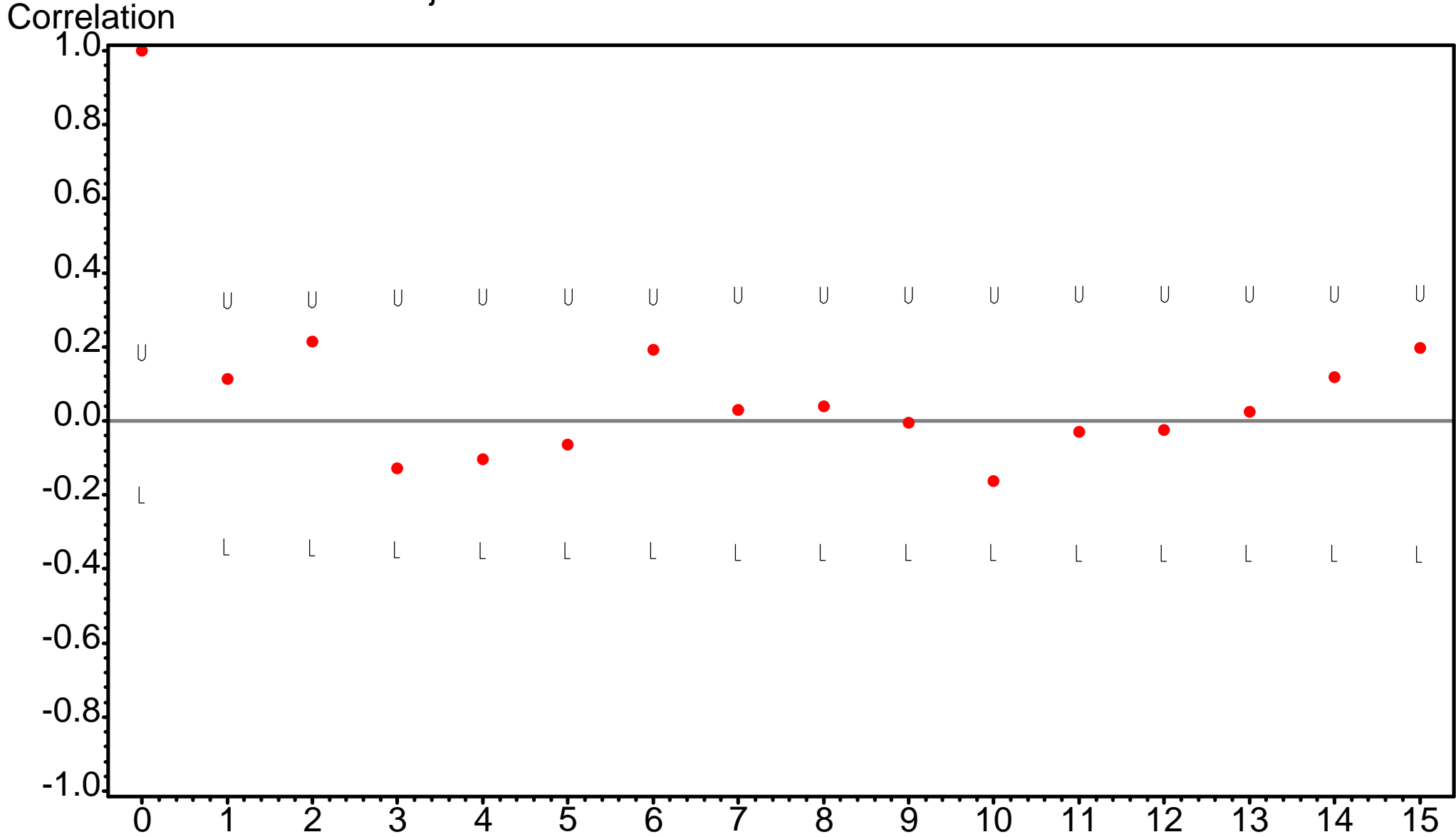
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.114	0.167	0.333	-0.333
2	0.215	0.167	0.335	-0.335
3	-0.127	0.170	0.340	-0.340
4	-0.104	0.171	0.342	-0.342
5	-0.065	0.171	0.343	-0.343
6	0.193	0.172	0.343	-0.343
7	0.029	0.174	0.347	-0.347
8	0.040	0.174	0.347	-0.347
9	-0.006	0.174	0.347	-0.347
10	-0.163	0.174	0.347	-0.347
11	-0.029	0.175	0.350	-0.350
12	-0.024	0.175	0.350	-0.350
13	0.024	0.175	0.350	-0.350
14	0.118	0.175	0.350	-0.350
15	0.197	0.176	0.352	-0.352

Cape Haze Trends Appendix - Display 280

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Cape Haze

Adjusted for Seasonal Median and Detrended

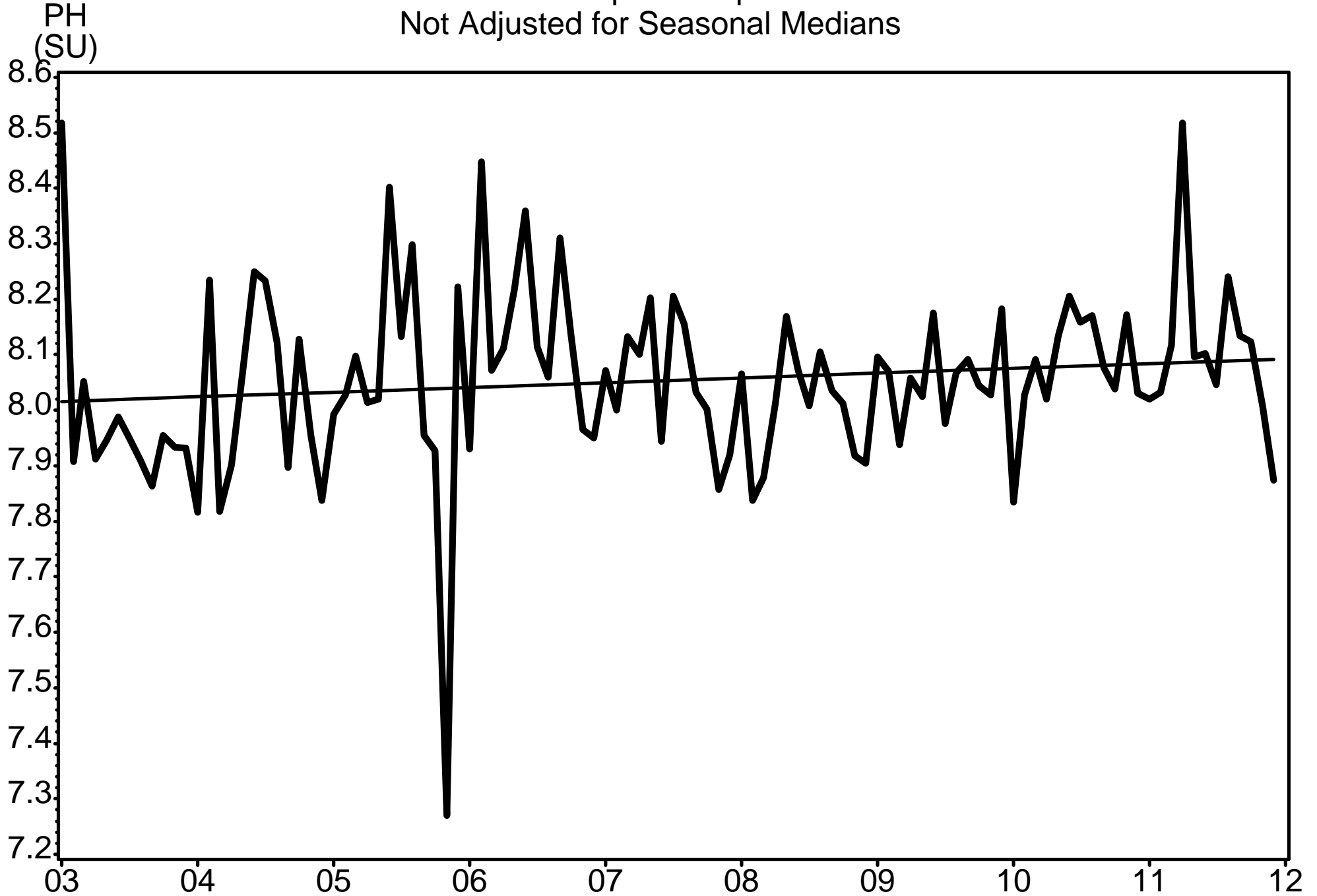


Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 281

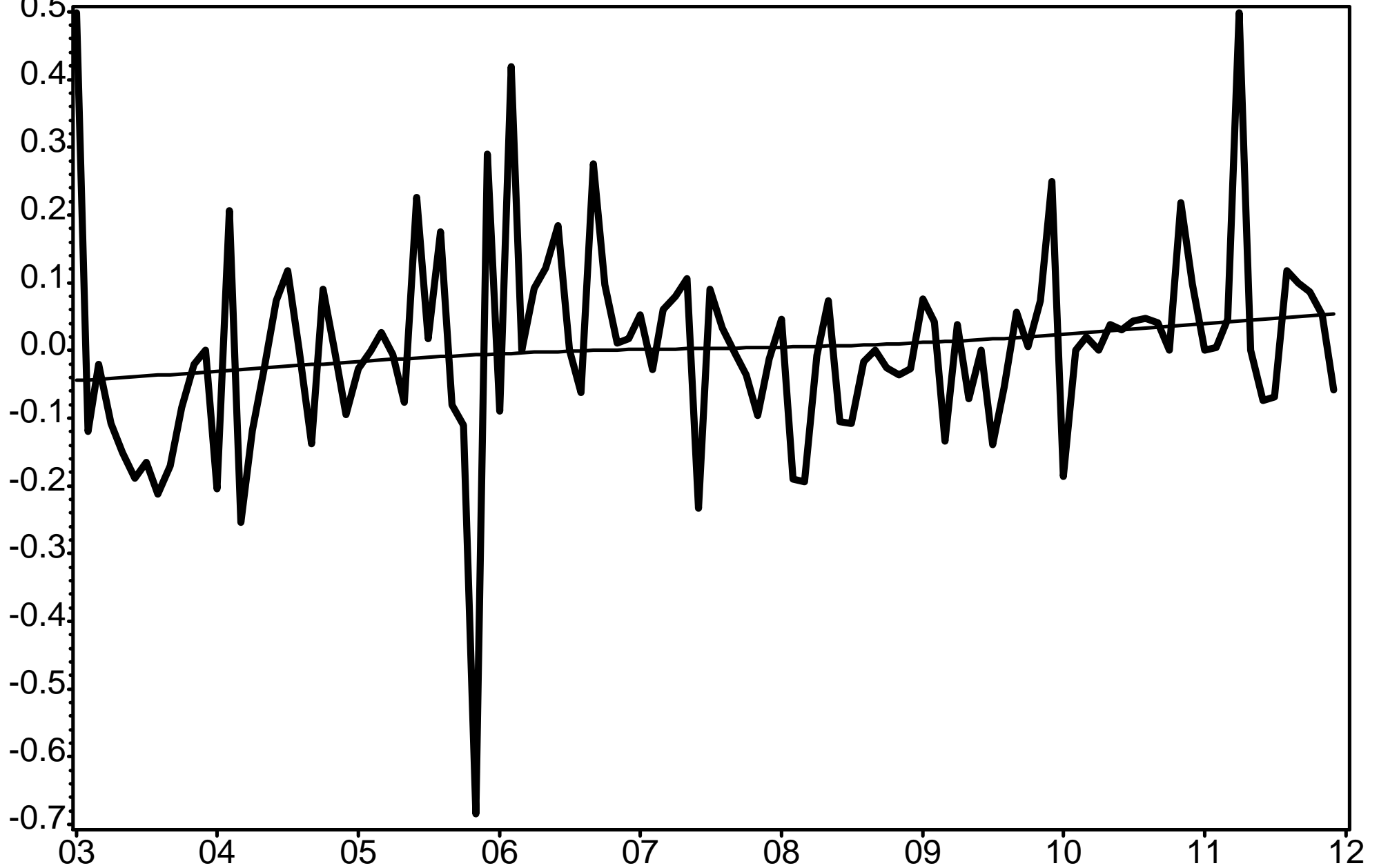
Monthly Data Time Series
for Surface pH in Cape Haze
Not Adjusted for Seasonal Medians



Cape Haze Trends Appendix - Display 282

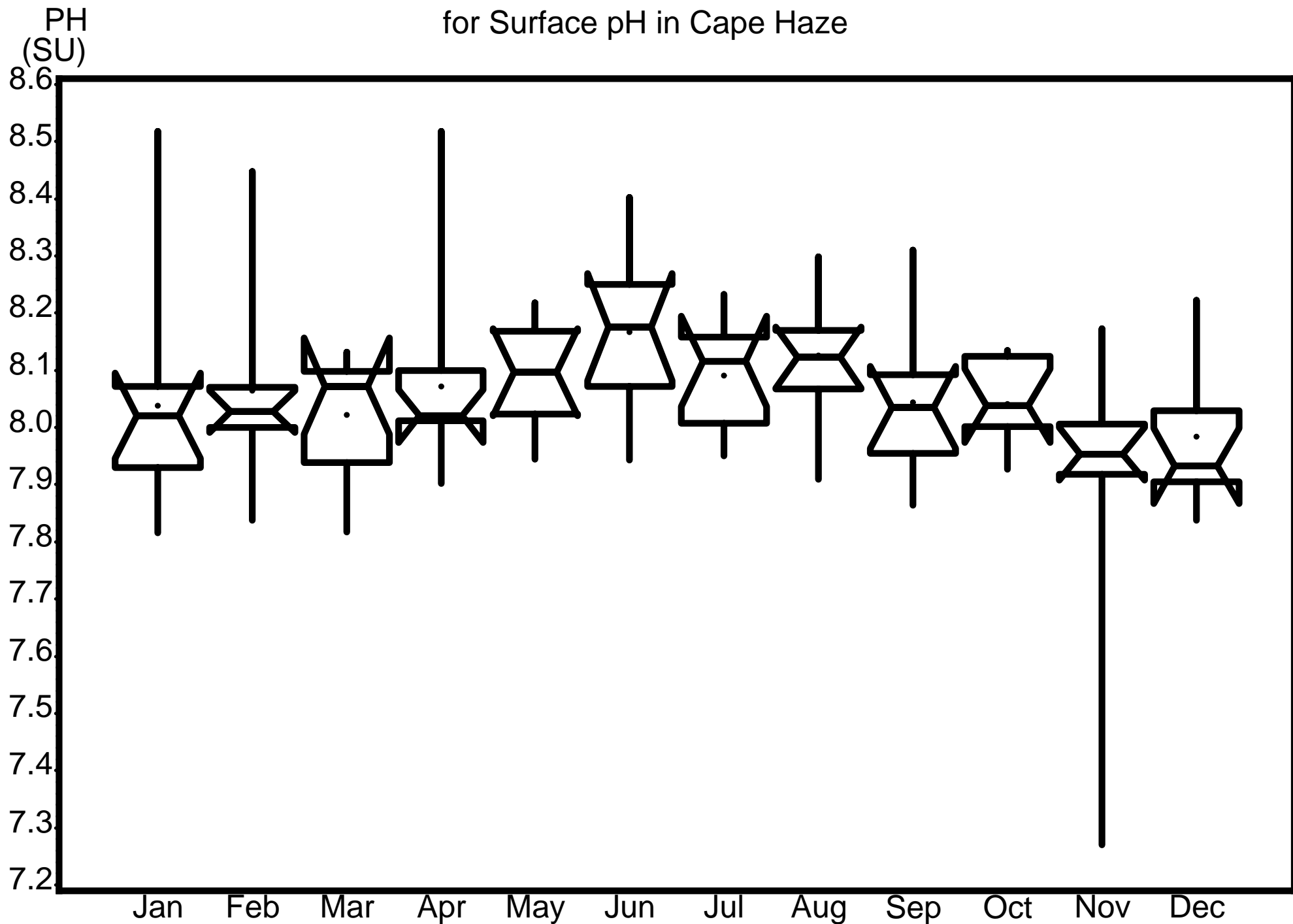
Monthly Data Time Series
for Surface pH in Cape Haze
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Cape Haze Trends Appendix - Display 283

Seasonal Univariate Statistics
for Surface pH in Cape Haze



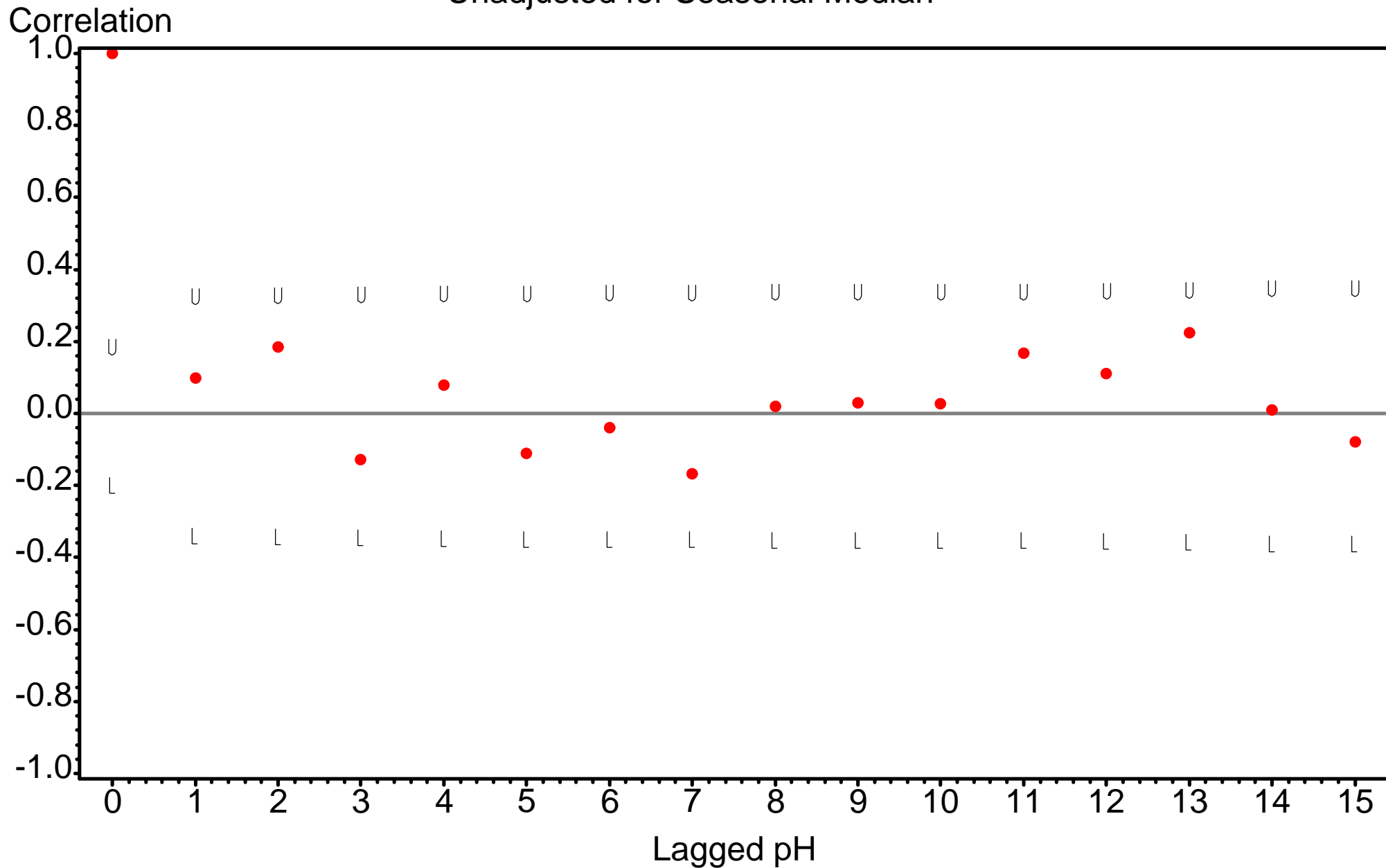
Cape Haze Trends Appendix - Display 284
Autocorrelation Statistics for Surface pH in Cape Haze

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.099	0.167	0.333	-0.333
2	0.184	0.167	0.334	-0.334
3	-0.129	0.169	0.338	-0.338
4	0.079	0.170	0.340	-0.340
5	-0.110	0.170	0.341	-0.341
6	-0.040	0.171	0.342	-0.342
7	-0.167	0.171	0.342	-0.342
8	0.019	0.173	0.345	-0.345
9	0.030	0.173	0.345	-0.345
10	0.027	0.173	0.345	-0.345
11	0.167	0.173	0.345	-0.345
12	0.110	0.174	0.348	-0.348
13	0.224	0.175	0.350	-0.350
14	0.011	0.177	0.355	-0.355
15	-0.079	0.177	0.355	-0.355

Cape Haze Trends Appendix - Display 285

Correlogram for Surface pH in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 286
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.141	0.031	0.031	0.011

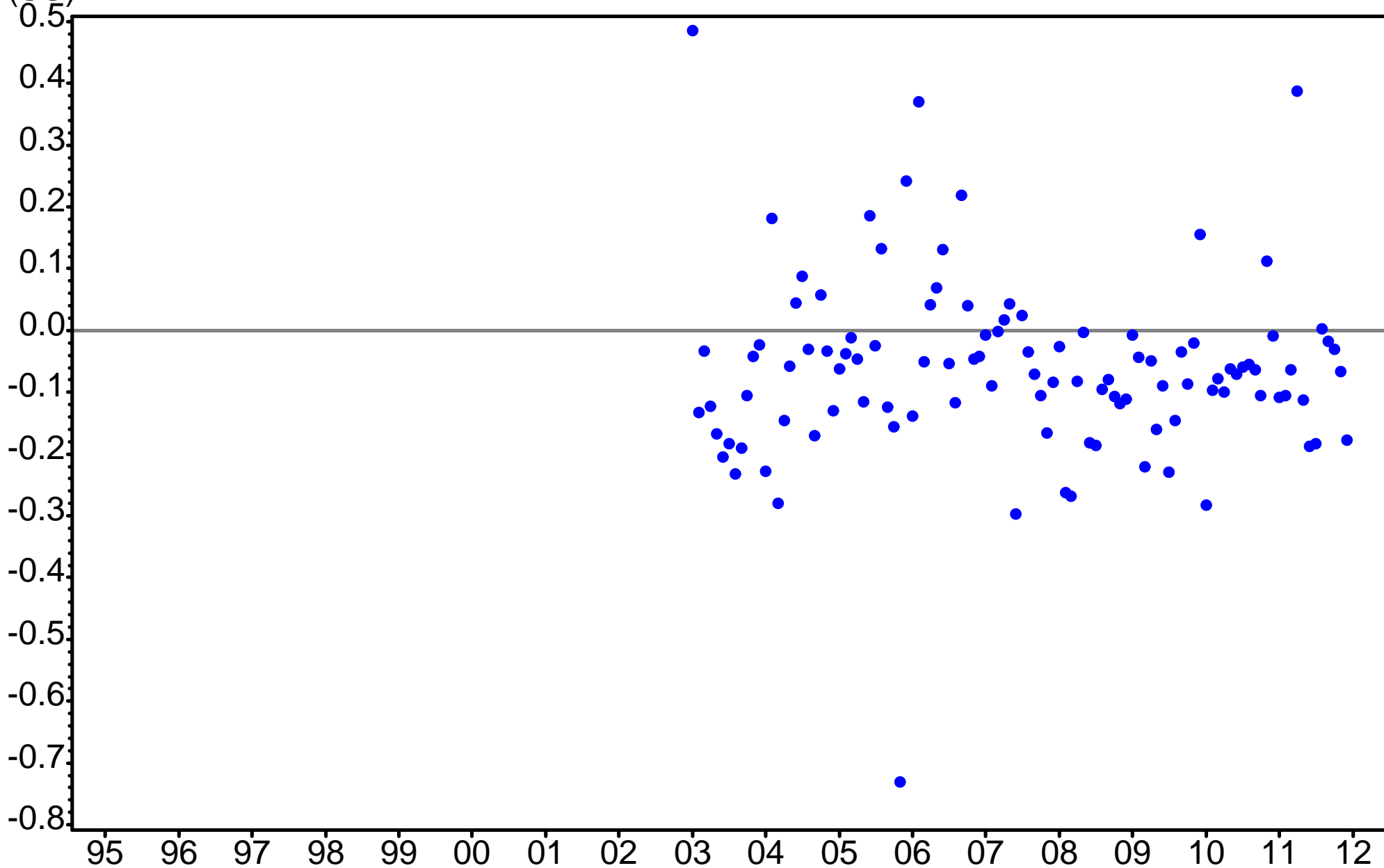
Cape Haze Trends Appendix - Display 287
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.20370	.00883424	0.083407	0.012

Cape Haze Trends Appendix - Display 288

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(SU)



Zero Reference Line Shown

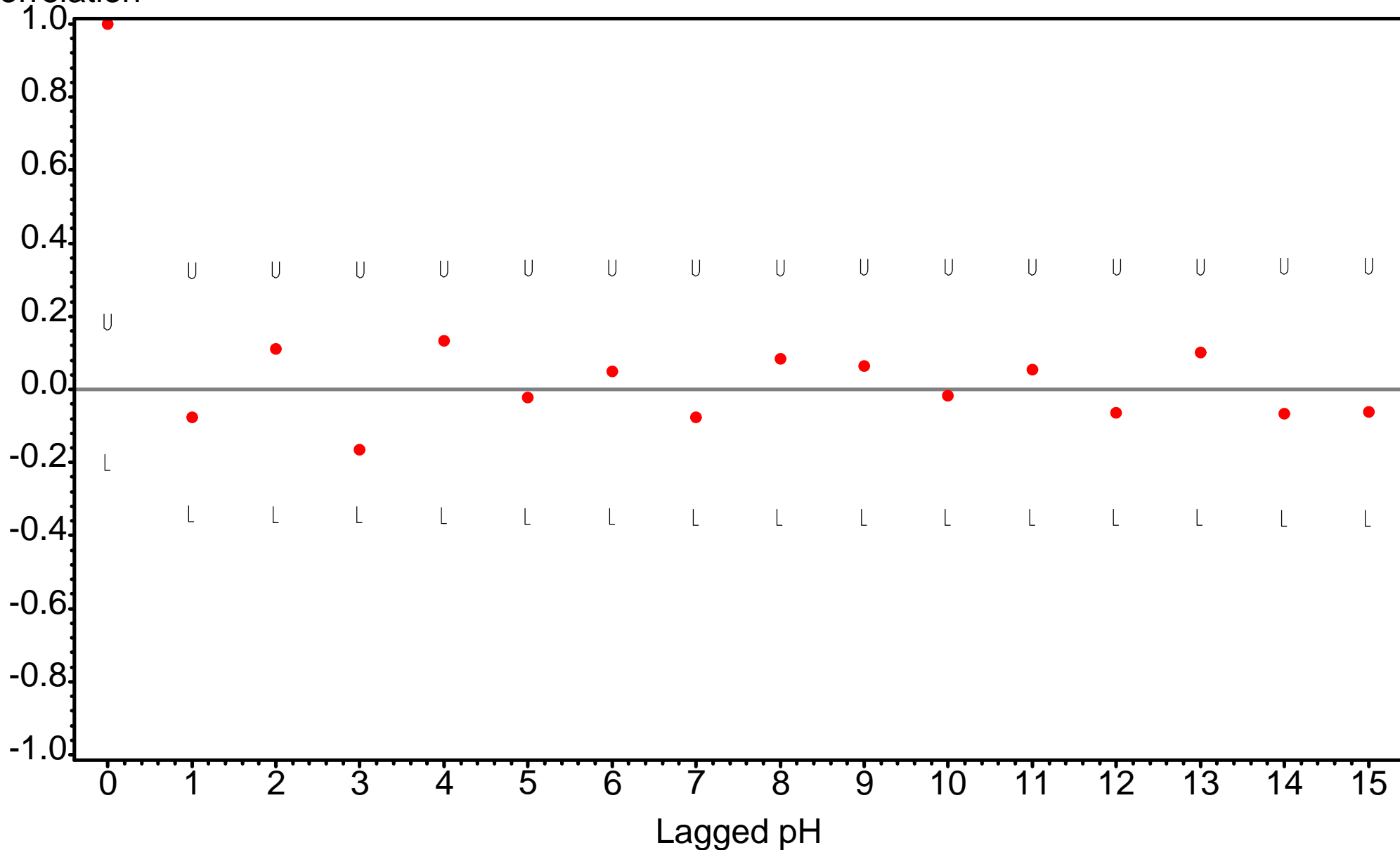
Cape Haze Trends Appendix - Display 289
Autocorrelation Statistics for Surface pH in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.076	0.167	0.333	-0.333
2	0.112	0.167	0.334	-0.334
3	-0.165	0.168	0.335	-0.335
4	0.132	0.169	0.338	-0.338
5	-0.023	0.170	0.340	-0.340
6	0.049	0.170	0.340	-0.340
7	-0.076	0.170	0.341	-0.341
8	0.084	0.171	0.341	-0.341
9	0.064	0.171	0.342	-0.342
10	-0.018	0.171	0.342	-0.342
11	0.054	0.171	0.342	-0.342
12	-0.065	0.171	0.343	-0.343
13	0.100	0.172	0.343	-0.343
14	-0.067	0.172	0.344	-0.344
15	-0.062	0.172	0.345	-0.345

Cape Haze Trends Appendix - Display 290

Correlogram for Surface pH in Cape Haze
Adjusted for Seasonal Median and Detrended

Correlation

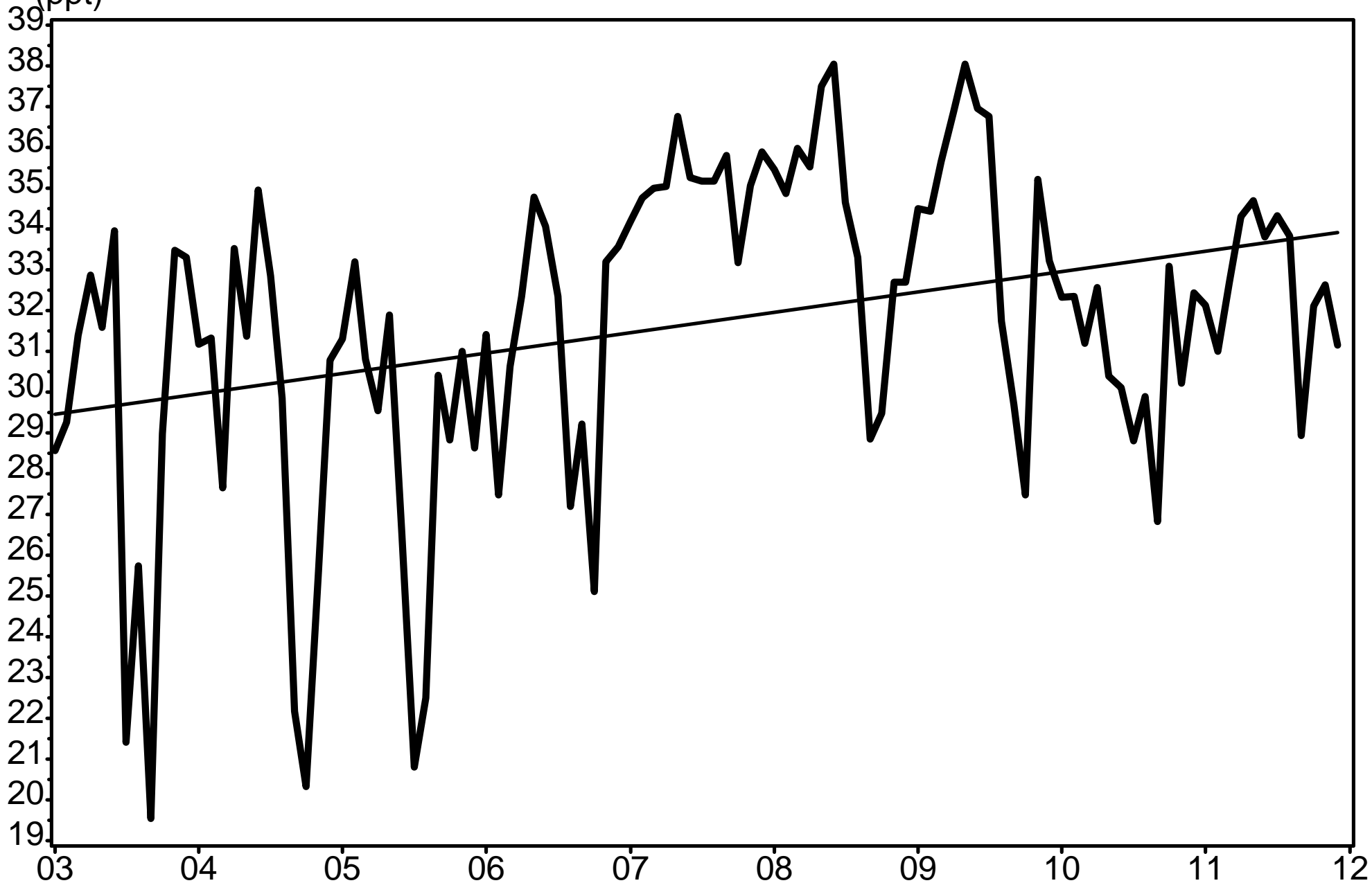


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 291

Monthly Data Time Series
for Surface Salinity in Cape Haze
Not Adjusted for Seasonal Medians

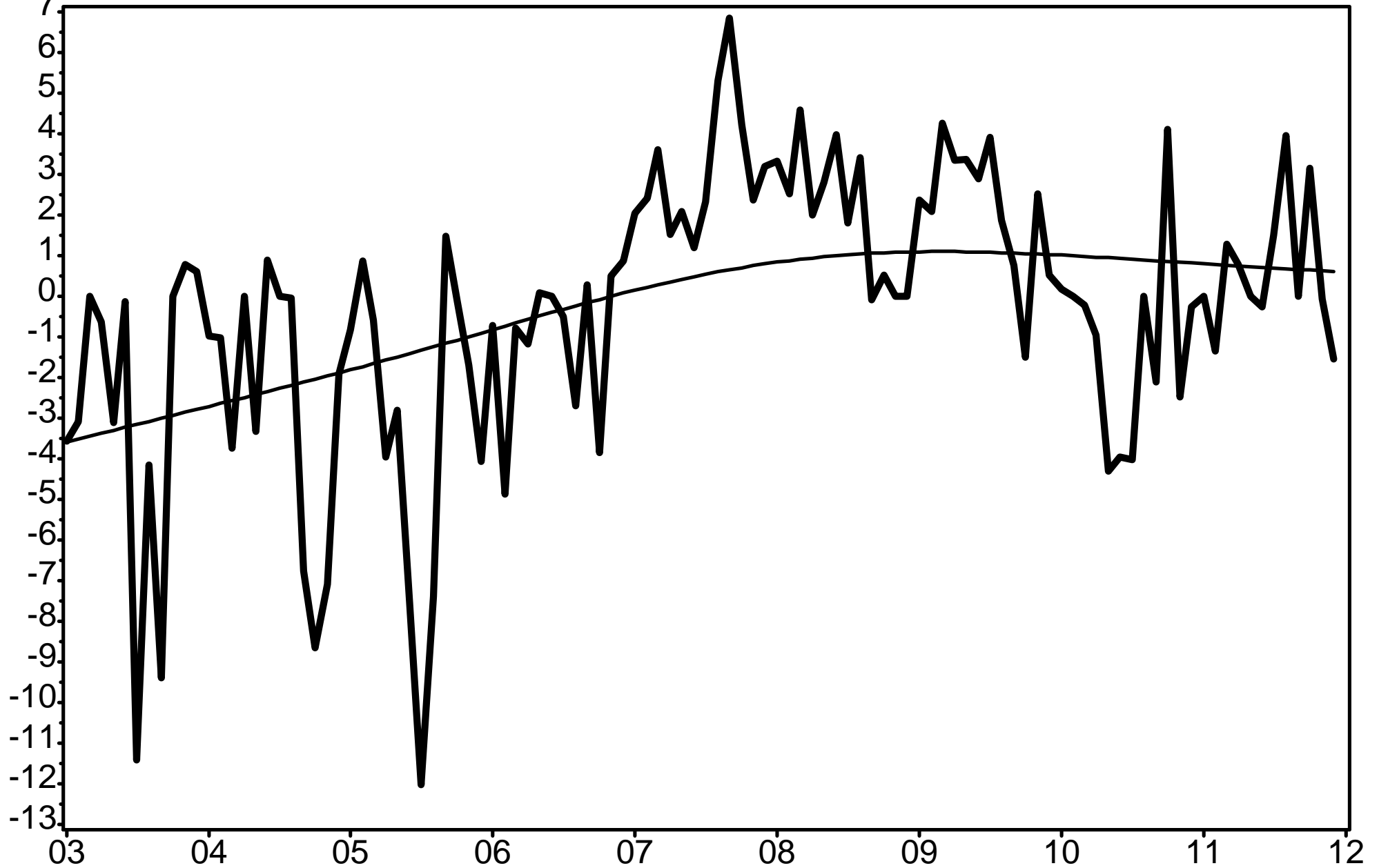
Salinity
(ppt)



Cape Haze Trends Appendix - Display 292

Monthly Data Time Series
for Surface Salinity in Cape Haze
Adjusted for Seasonal Medians

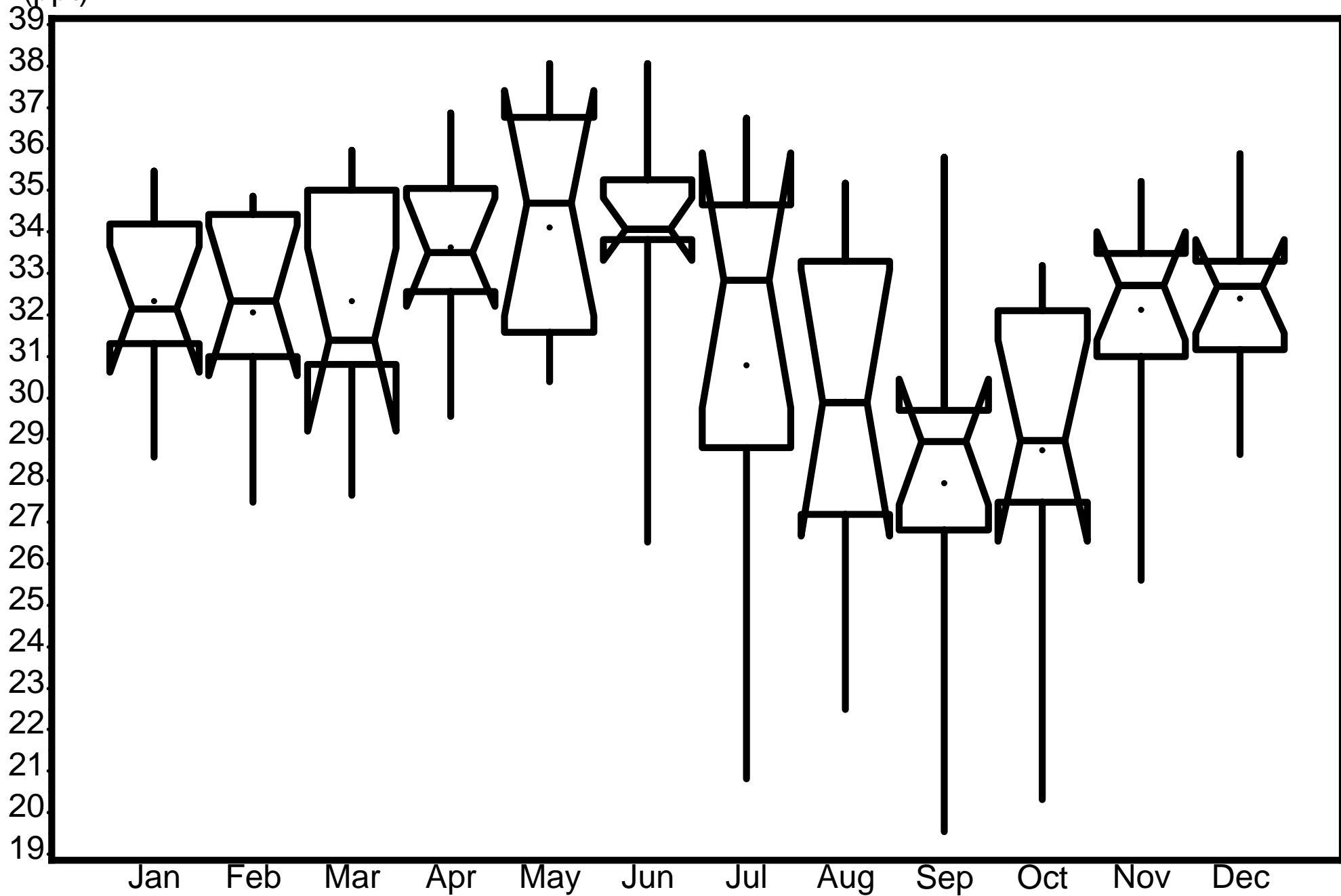
Adjusted
Salinity
(ppt)



Cape Haze Trends Appendix - Display 293

Seasonal Univariate Statistics
for Surface Salinity in Cape Haze

Salinity
(ppt)



Cape Haze Trends Appendix - Display 294

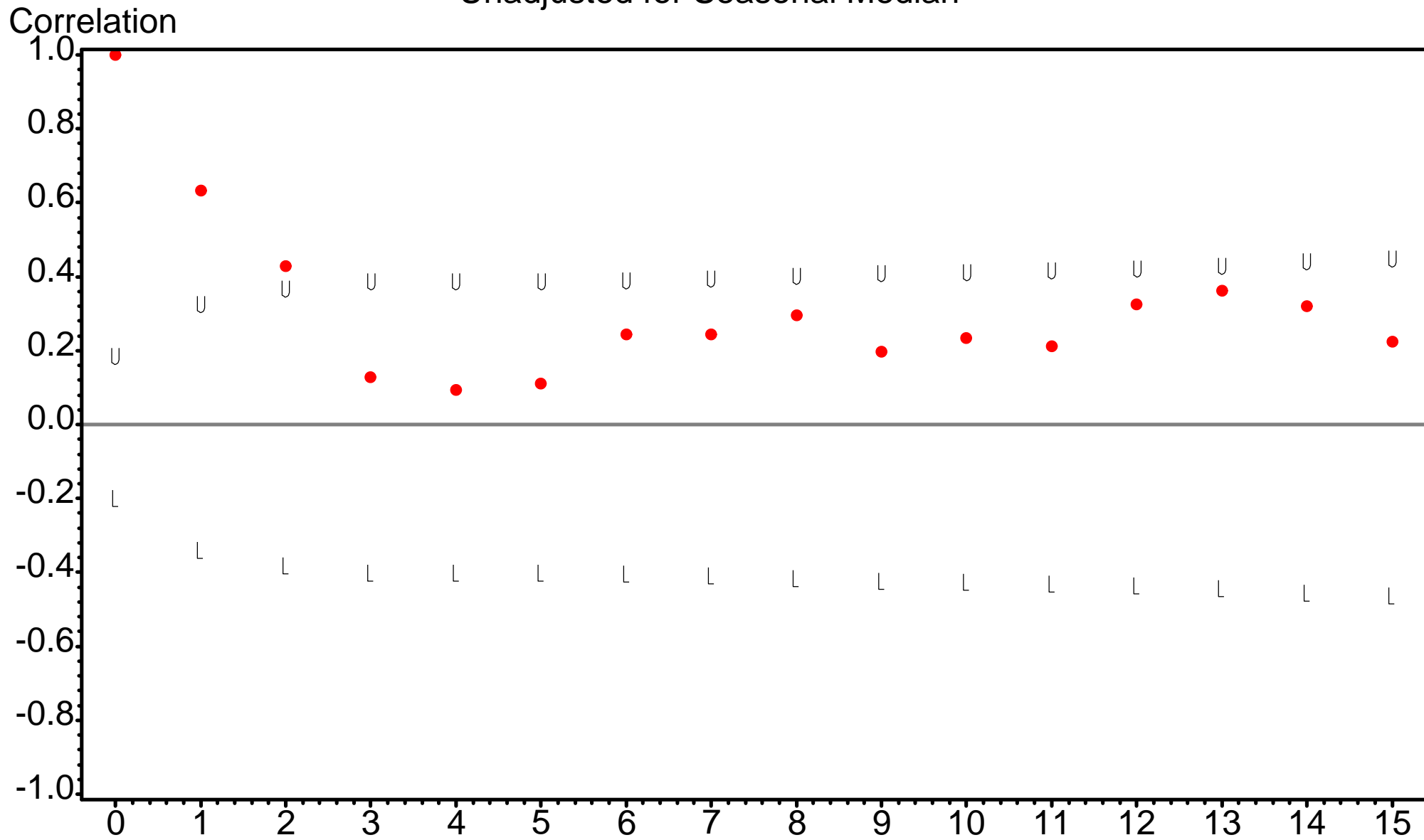
Autocorrelation Statistics for Surface Salinity in Cape Haze

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.634	0.167	0.333	-0.333
2	0.429	0.188	0.375	-0.375
3	0.129	0.197	0.393	-0.393
4	0.093	0.197	0.395	-0.395
5	0.110	0.198	0.395	-0.395
6	0.245	0.198	0.397	-0.397
7	0.245	0.201	0.402	-0.402
8	0.295	0.204	0.408	-0.408
9	0.197	0.208	0.415	-0.415
10	0.233	0.209	0.419	-0.419
11	0.211	0.212	0.424	-0.424
12	0.326	0.214	0.428	-0.428
13	0.361	0.218	0.437	-0.437
14	0.320	0.224	0.448	-0.448
15	0.224	0.228	0.456	-0.456

Cape Haze Trends Appendix - Display 295

Correlogram for Surface Salinity in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 296
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.192	.003	.003	0.405

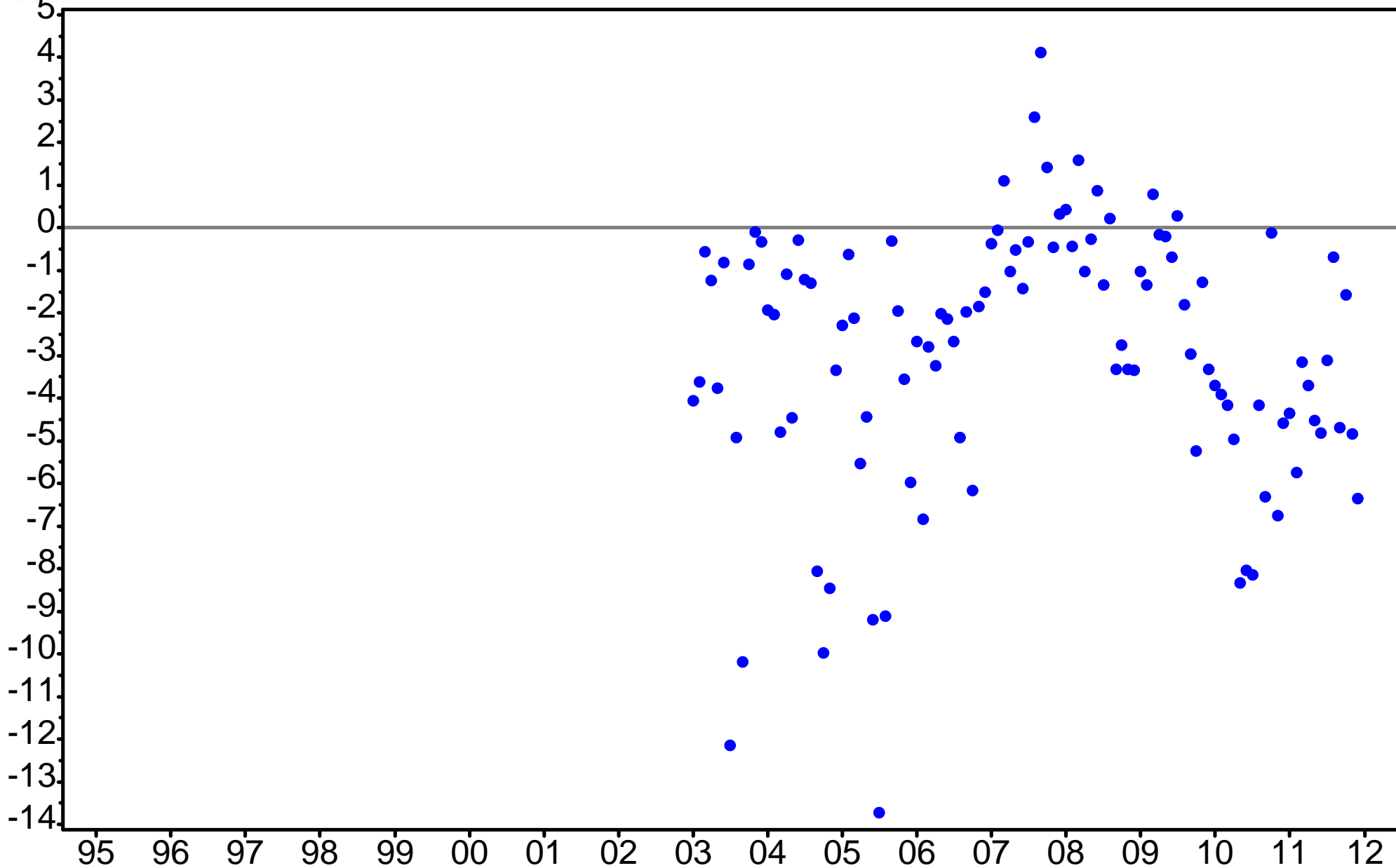
Cape Haze Trends Appendix - Display 297
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.25463	.00103629	0.18567	0.4845

Cape Haze Trends Appendix - Display 298

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(ppt)



Zero Reference Line Shown

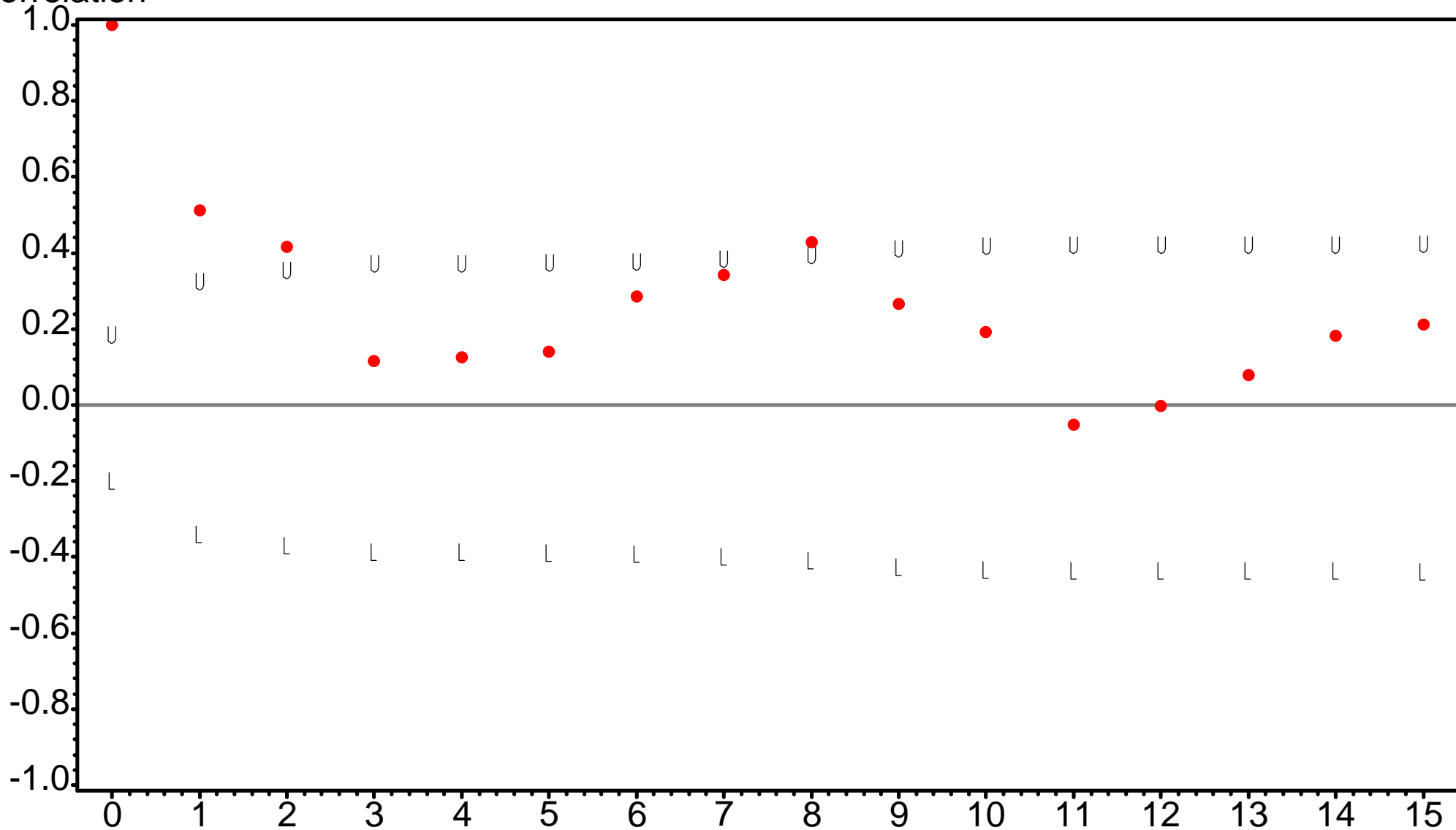
Cape Haze Trends Appendix - Display 299
Autocorrelation Statistics for Surface Salinity in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.512	0.167	0.333	-0.333
2	0.417	0.181	0.361	-0.361
3	0.116	0.189	0.379	-0.379
4	0.125	0.190	0.380	-0.380
5	0.140	0.191	0.382	-0.382
6	0.286	0.192	0.383	-0.383
7	0.343	0.196	0.391	-0.391
8	0.428	0.201	0.402	-0.402
9	0.267	0.209	0.419	-0.419
10	0.191	0.213	0.425	-0.425
11	-0.051	0.214	0.428	-0.428
12	-0.002	0.214	0.428	-0.428
13	0.079	0.214	0.428	-0.428
14	0.183	0.214	0.429	-0.429
15	0.212	0.216	0.432	-0.432

Cape Haze Trends Appendix - Display 300

Correlogram for Surface Salinity in Cape Haze
Adjusted for Seasonal Median and Detrended

Correlation



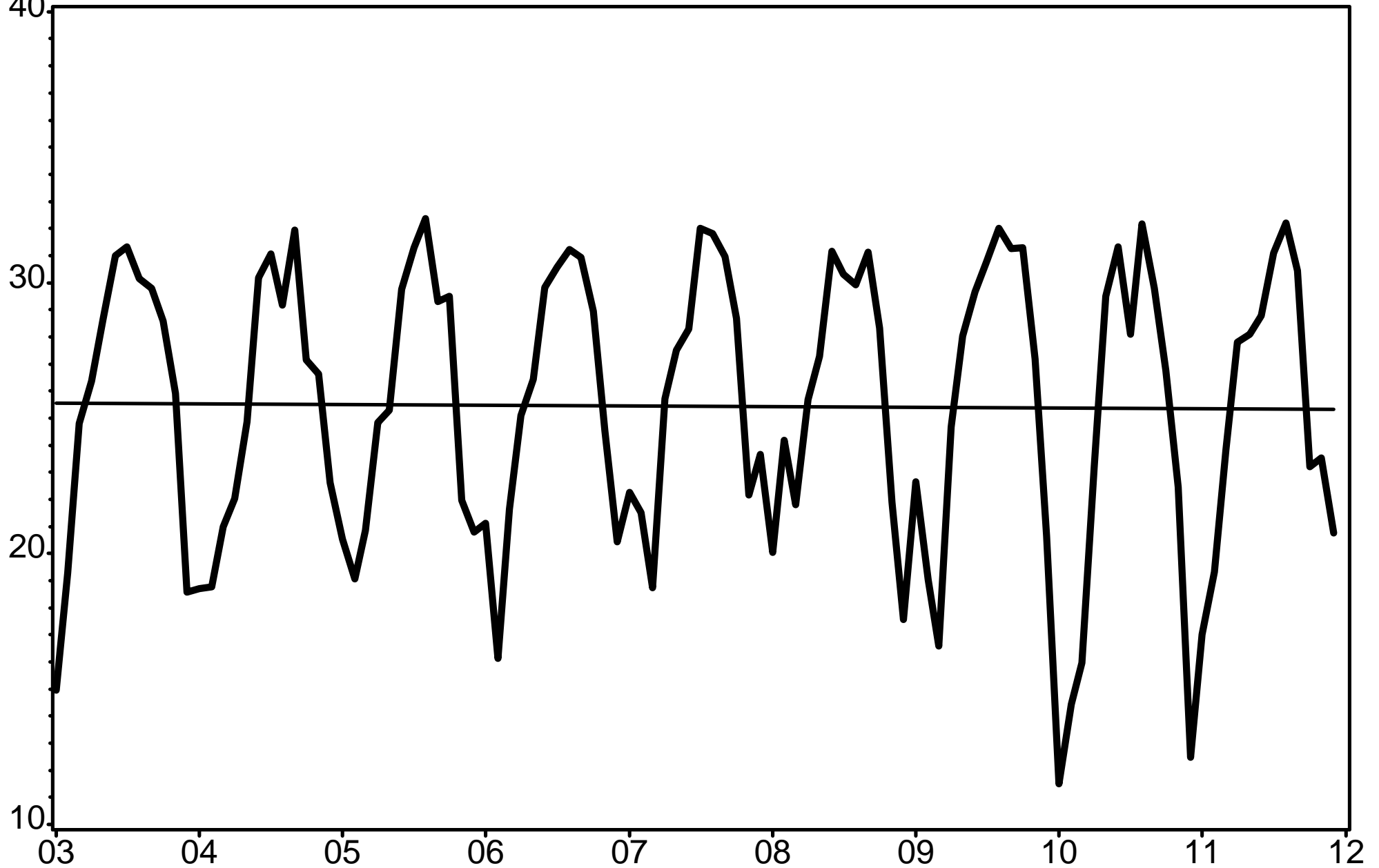
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 301

Monthly Data Time Series
for Surface Temperature in Cape Haze
Not Adjusted for Seasonal Medians

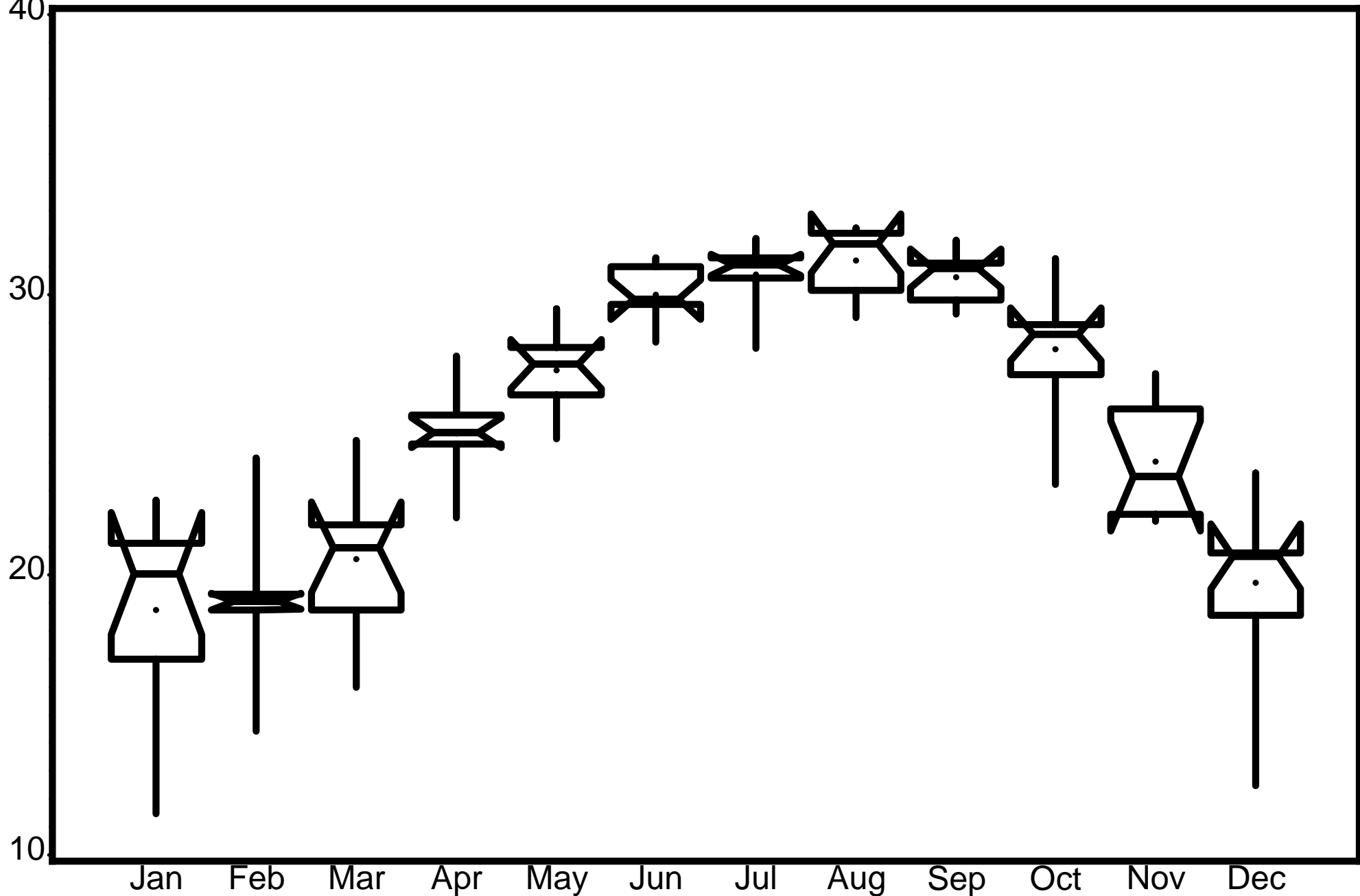
TEMP_C
(Degree C)



Cape Haze Trends Appendix - Display 303

Seasonal Univariate Statistics
for Surface Temperature in Cape Haze

TEMP_C
(Degree C)
40



Cape Haze Trends Appendix - Display 304

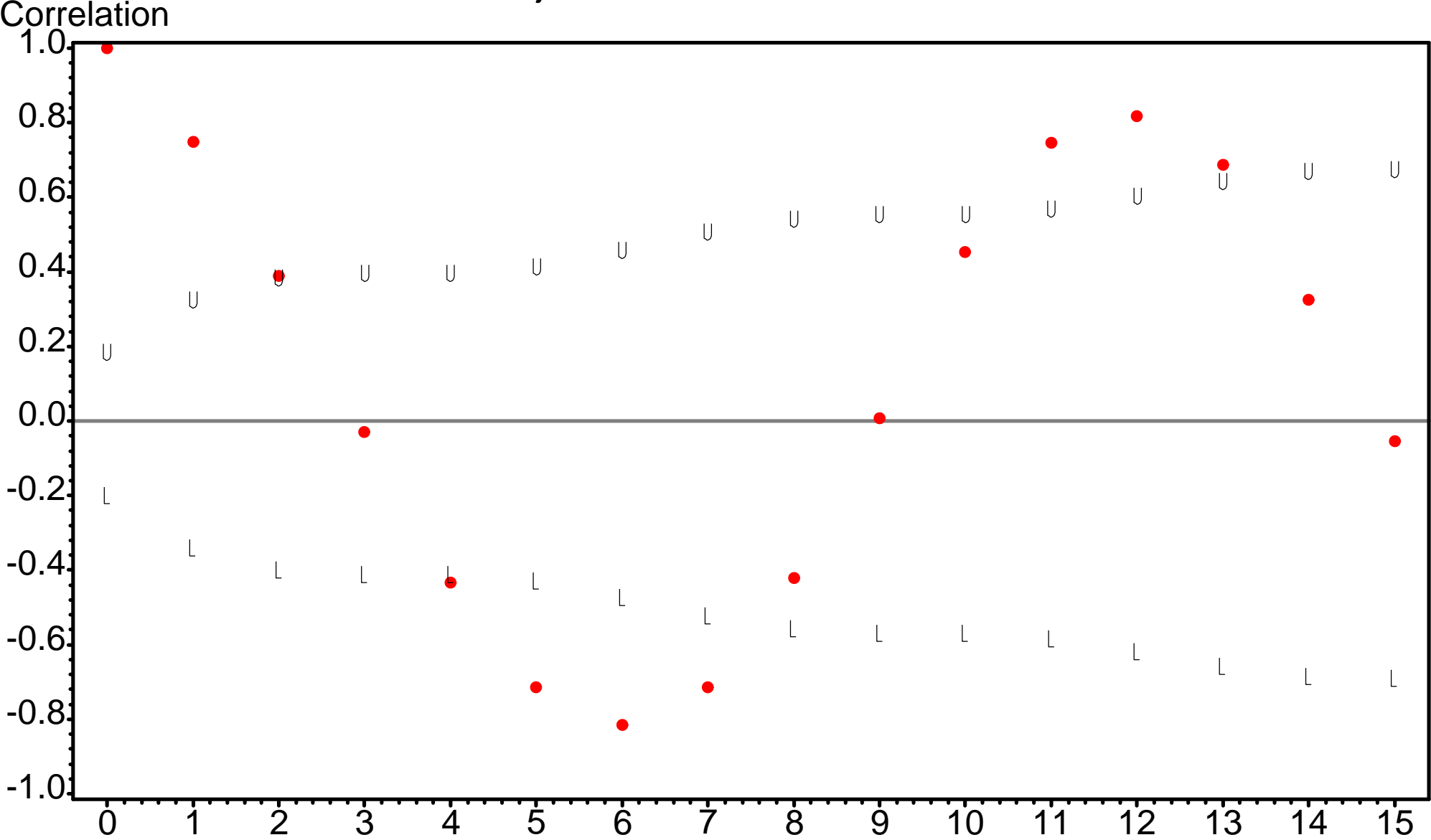
Autocorrelation Statistics for Surface Temperature in Cape Haze

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.749	0.167	0.333	-0.333
2	0.390	0.195	0.391	-0.391
3	-0.030	0.202	0.405	-0.405
4	-0.434	0.202	0.405	-0.405
5	-0.715	0.211	0.422	-0.422
6	-0.814	0.232	0.465	-0.465
7	-0.713	0.257	0.515	-0.515
8	-0.420	0.275	0.550	-0.550
9	0.007	0.281	0.562	-0.562
10	0.452	0.281	0.562	-0.562
11	0.745	0.288	0.575	-0.575
12	0.818	0.305	0.610	-0.610
13	0.686	0.325	0.649	-0.649
14	0.325	0.338	0.676	-0.676
15	-0.053	0.341	0.681	-0.681

Cape Haze Trends Appendix - Display 305

Correlogram for Surface Temperature in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 306
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.021	0.748	0.748	0.052

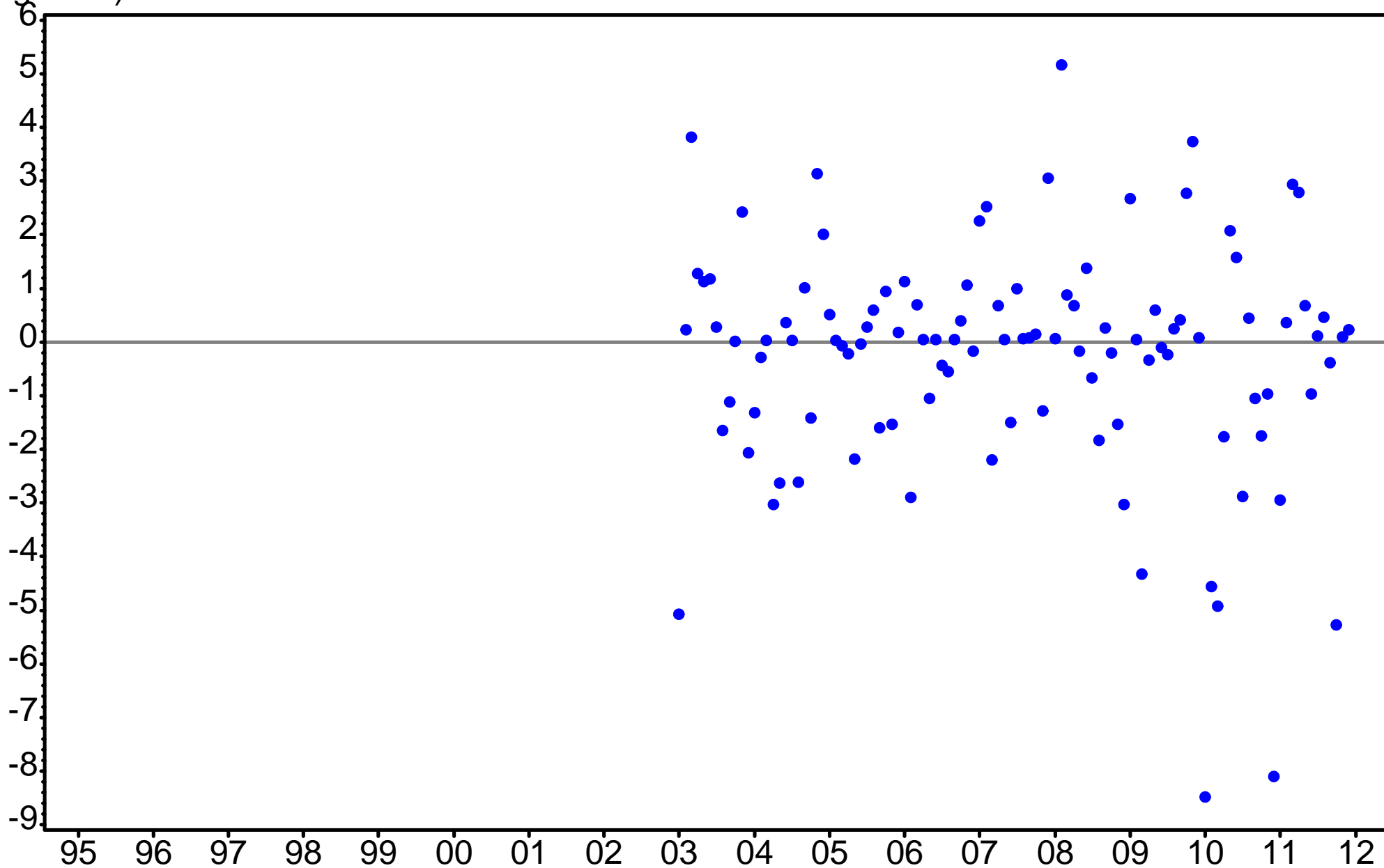
Cape Haze Trends Appendix - Display 307
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.013889	0.88038	0.88145	-0.01

Cape Haze Trends Appendix - Display 308

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(Degree C)



Zero Reference Line Shown

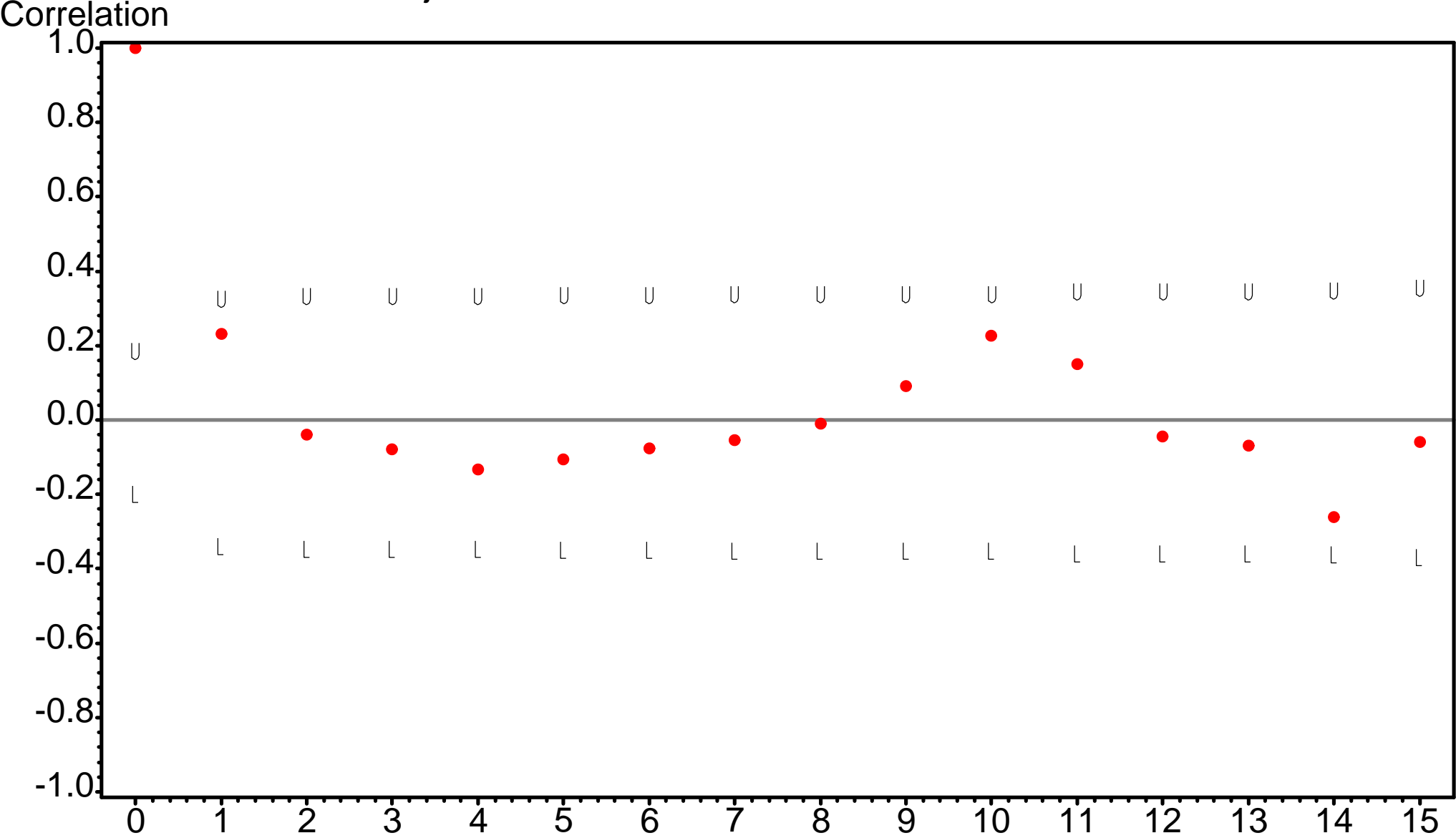
Cape Haze Trends Appendix - Display 309
Autocorrelation Statistics for Surface Temperature in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.232	0.167	0.333	-0.333
2	-0.039	0.170	0.339	-0.339
3	-0.078	0.170	0.339	-0.339
4	-0.132	0.170	0.340	-0.340
5	-0.105	0.171	0.342	-0.342
6	-0.076	0.172	0.343	-0.343
7	-0.055	0.172	0.344	-0.344
8	-0.011	0.172	0.344	-0.344
9	0.091	0.172	0.344	-0.344
10	0.227	0.173	0.345	-0.345
11	0.151	0.175	0.351	-0.351
12	-0.044	0.176	0.353	-0.353
13	-0.069	0.177	0.353	-0.353
14	-0.261	0.177	0.354	-0.354
15	-0.060	0.180	0.361	-0.361

Cape Haze Trends Appendix - Display 310

Correlogram for Surface Temperature in Cape Haze

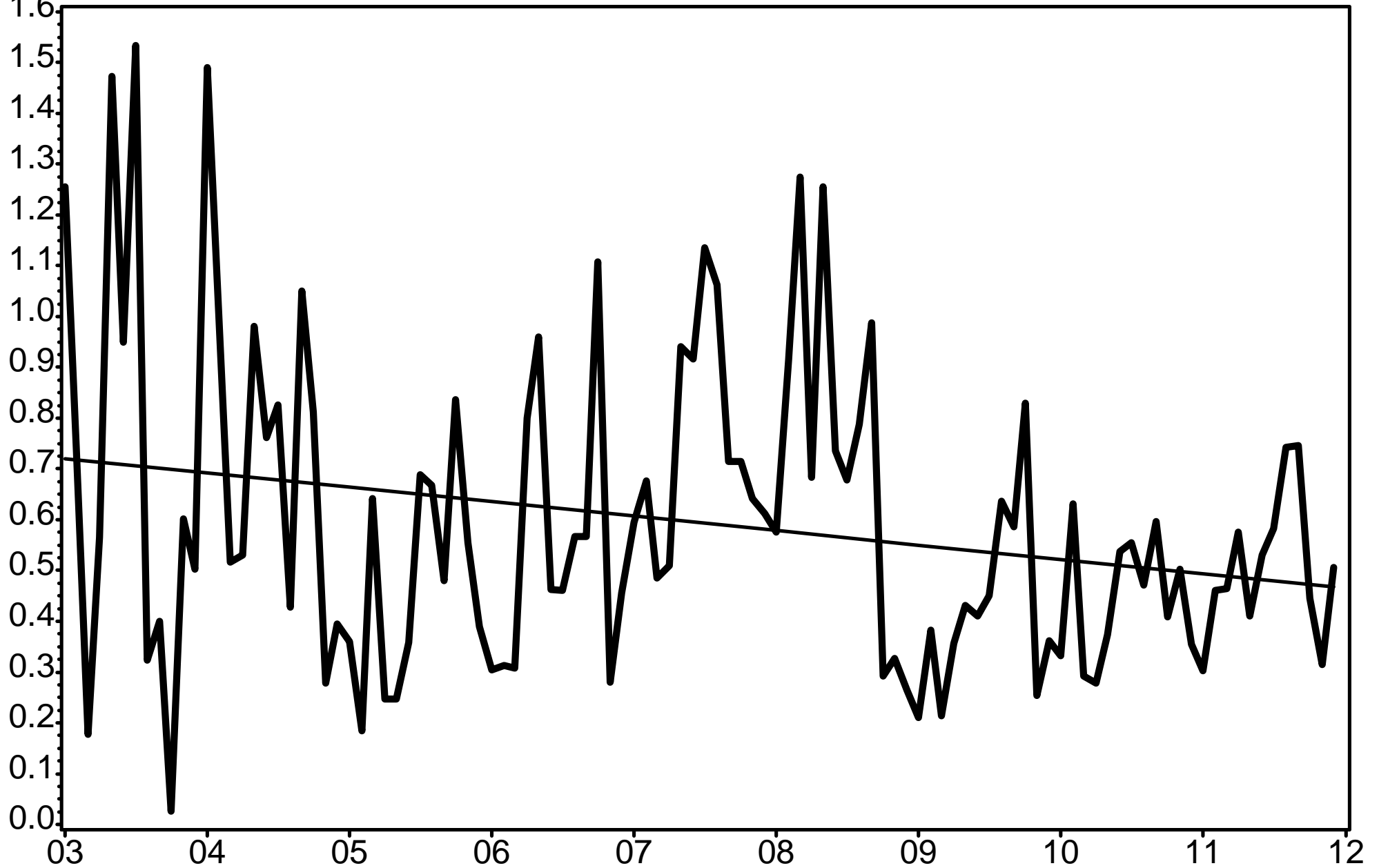
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 311
Monthly Data Time Series
for Surface Total Kjeldahl Nitrogen in Cape Haze
Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



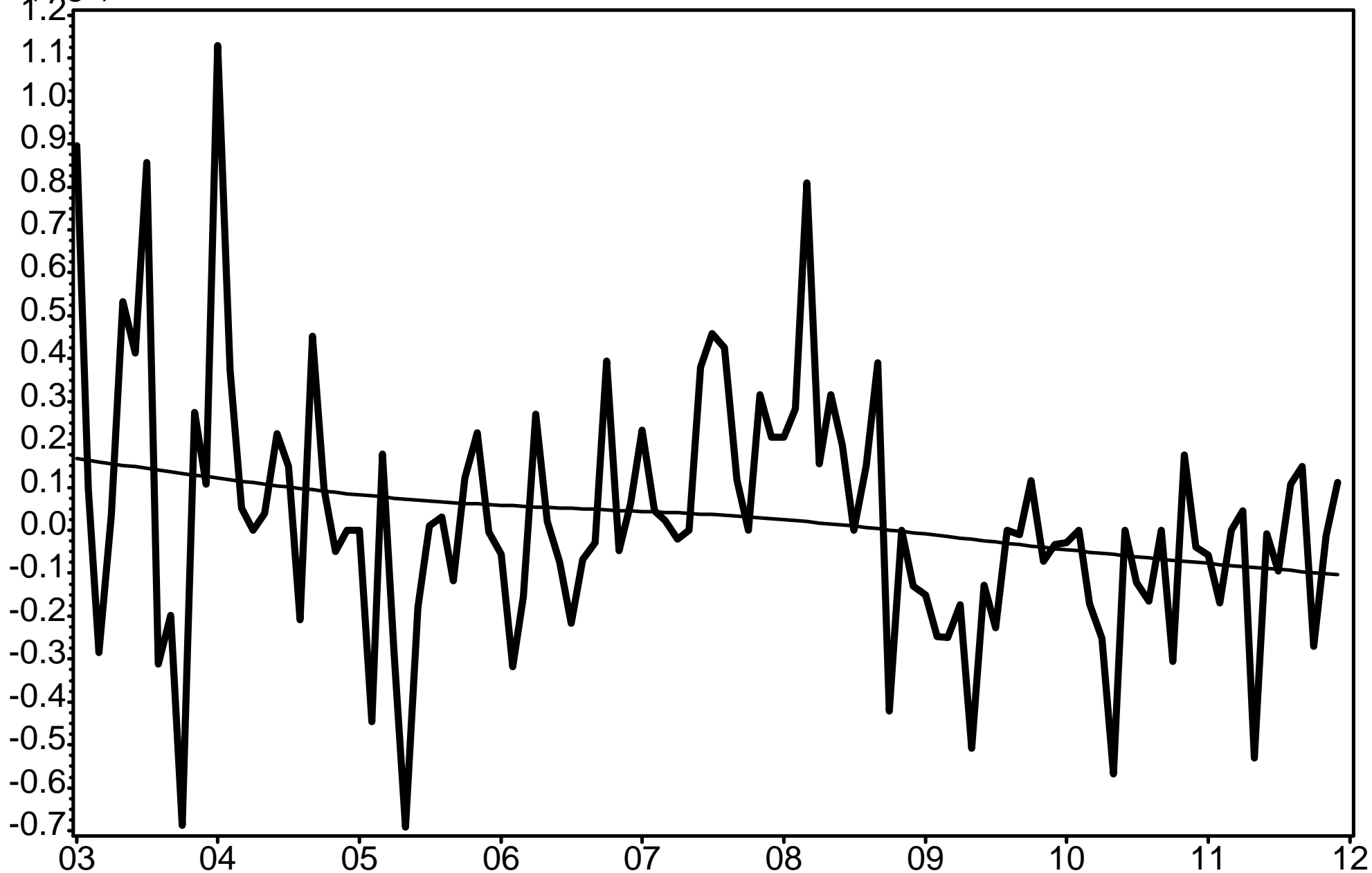
Cape Haze Trends Appendix - Display 312

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Cape Haze

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

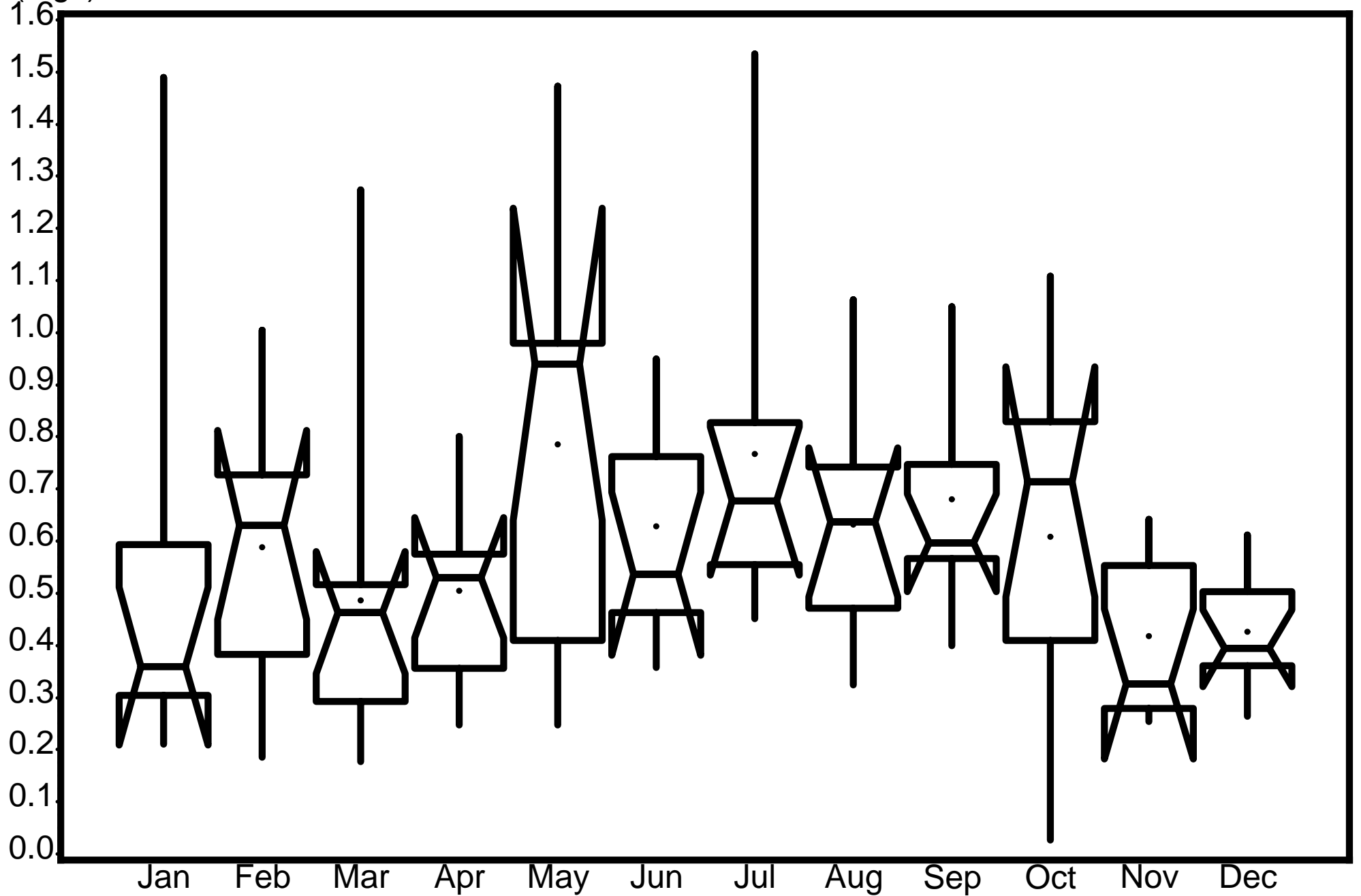


Cape Haze Trends Appendix - Display 313

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Cape Haze

TKN_mgl
(mg/l)



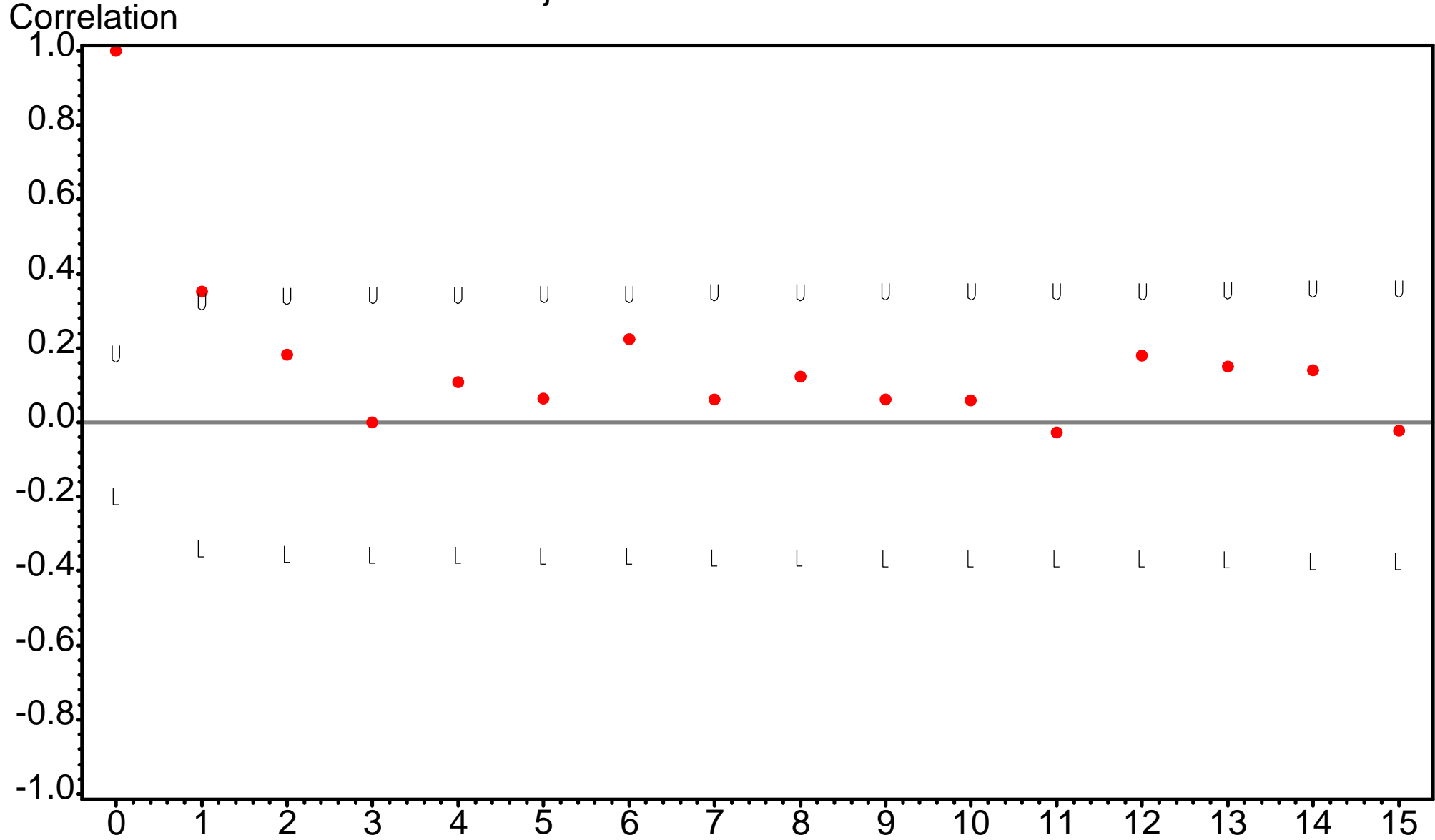
Cape Haze Trends Appendix - Display 314
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Cape Haze

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.351	0.167	0.333	-0.333
2	0.183	0.173	0.347	-0.347
3	-0.001	0.175	0.350	-0.350
4	0.109	0.175	0.350	-0.350
5	0.064	0.176	0.352	-0.352
6	0.224	0.176	0.352	-0.352
7	0.061	0.179	0.357	-0.357
8	0.123	0.179	0.358	-0.358
9	0.061	0.180	0.359	-0.359
10	0.058	0.180	0.360	-0.360
11	-0.028	0.180	0.360	-0.360
12	0.179	0.180	0.360	-0.360
13	0.149	0.182	0.363	-0.363
14	0.140	0.183	0.366	-0.366
15	-0.022	0.184	0.368	-0.368

Cape Haze Trends Appendix - Display 315

Correlogram for Surface Total Kjeldahl Nitrogen in Cape Haze

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 316
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Cape Haze
Unadjusted for Seasonal Medians

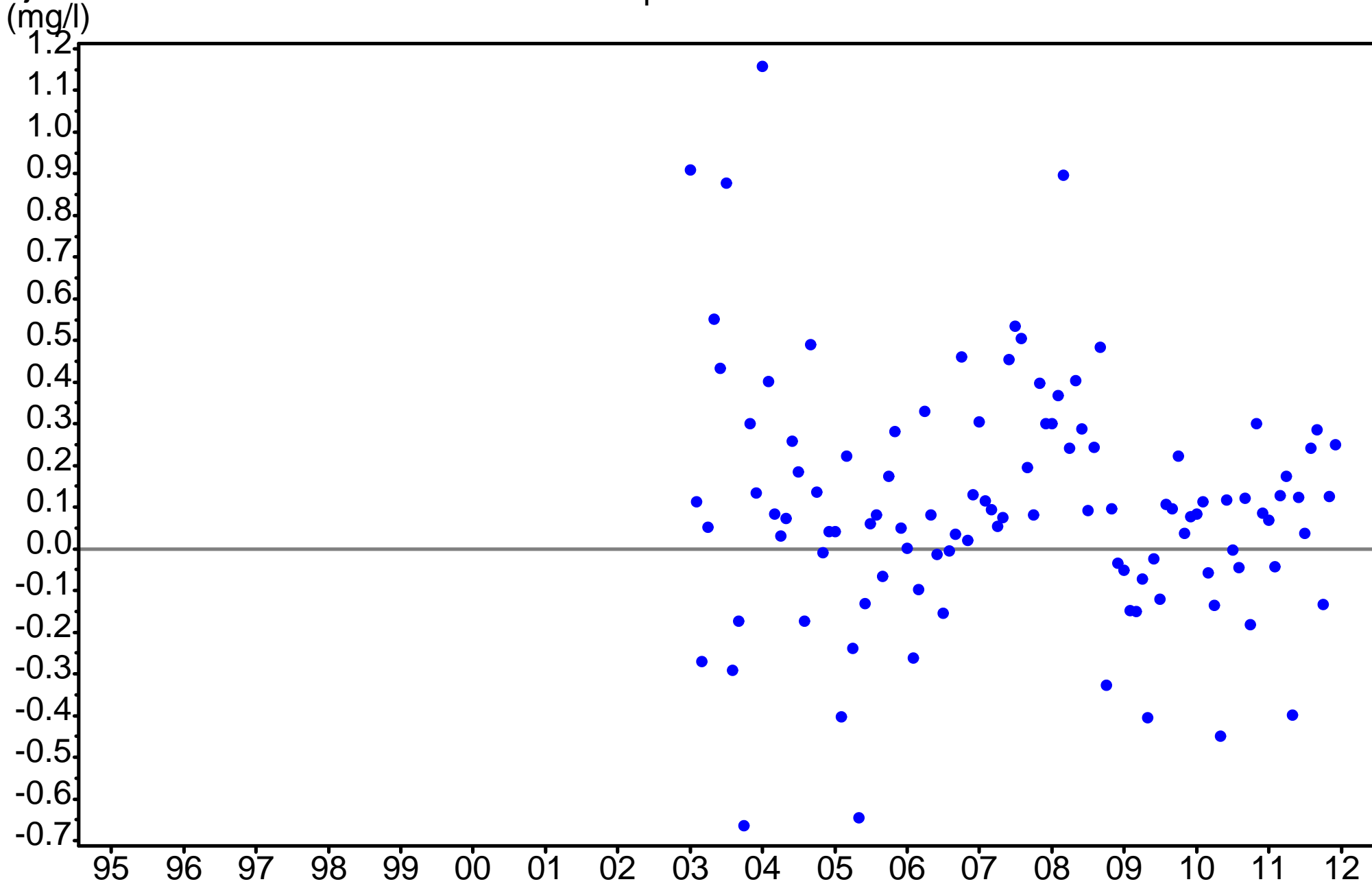
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.114	0.081	0.081	-0.019

Cape Haze Trends Appendix - Display 317
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.14352	0.066375	0.26080	-0.014

Cape Haze Trends Appendix - Display 318

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted Cape Haze



Zero Reference Line Shown

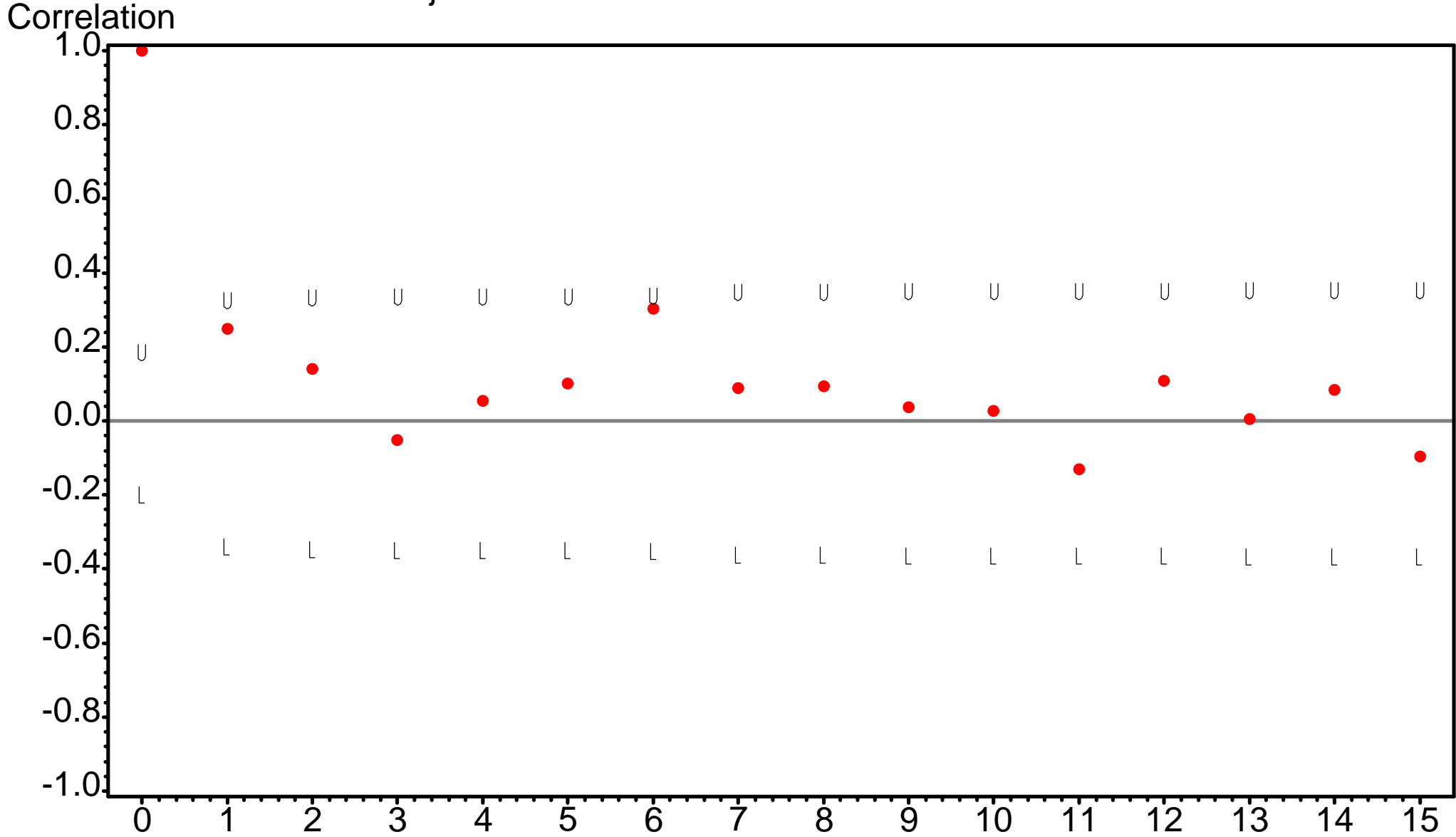
Cape Haze Trends Appendix - Display 319
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.249	0.167	0.333	-0.333
2	0.140	0.170	0.340	-0.340
3	-0.051	0.171	0.342	-0.342
4	0.053	0.171	0.343	-0.343
5	0.102	0.171	0.343	-0.343
6	0.304	0.172	0.344	-0.344
7	0.088	0.177	0.354	-0.354
8	0.094	0.177	0.355	-0.355
9	0.036	0.178	0.356	-0.356
10	0.027	0.178	0.356	-0.356
11	-0.130	0.178	0.356	-0.356
12	0.108	0.179	0.357	-0.357
13	0.006	0.179	0.359	-0.359
14	0.084	0.179	0.359	-0.359
15	-0.095	0.180	0.359	-0.359

Cape Haze Trends Appendix - Display 320

Correlogram for Surface Total Kjeldahl Nitrogen in Cape Haze

Adjusted for Seasonal Median and Detrended



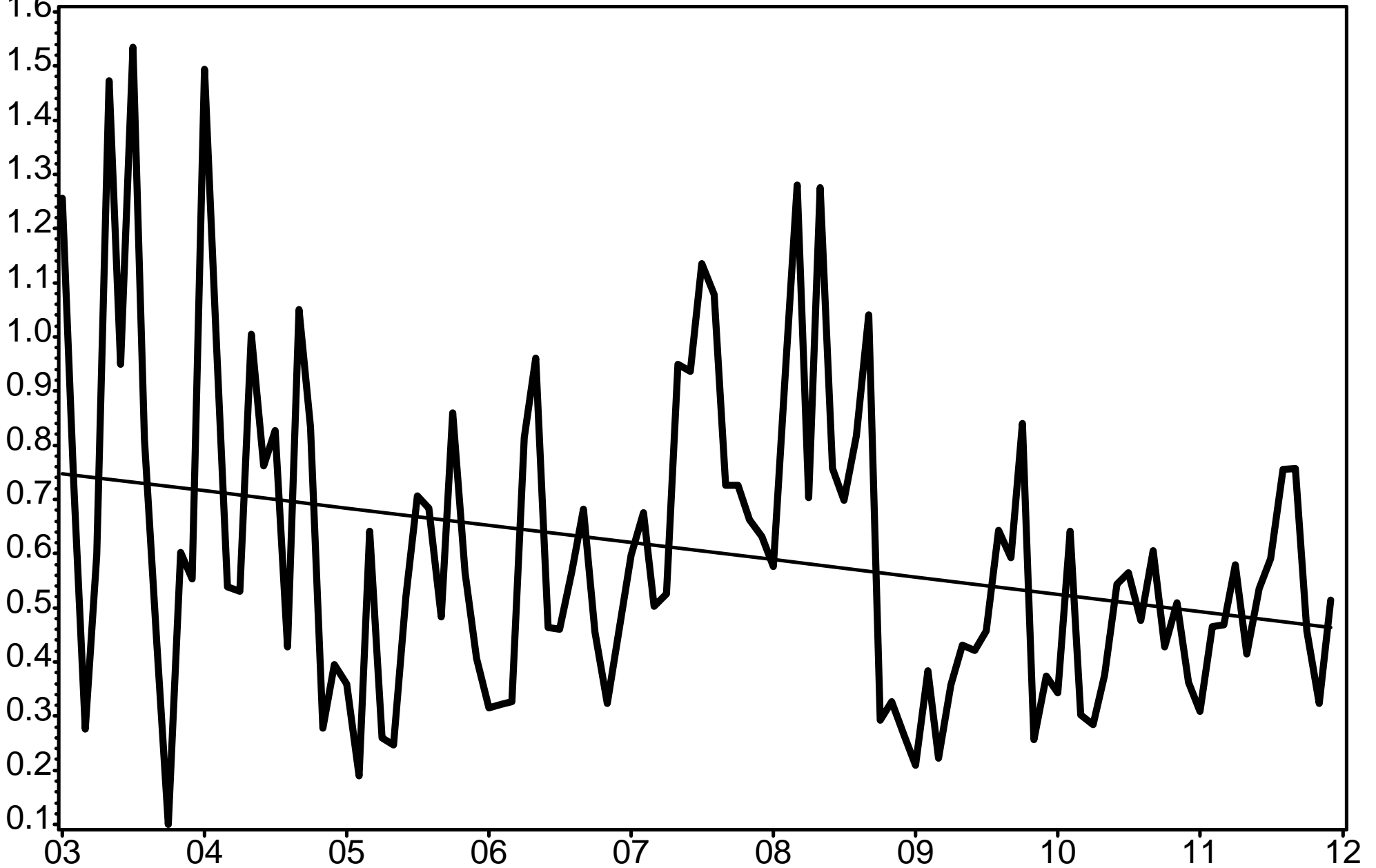
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 321

Monthly Data Time Series
for Surface Total Nitrogen in Cape Haze
Not Adjusted for Seasonal Medians

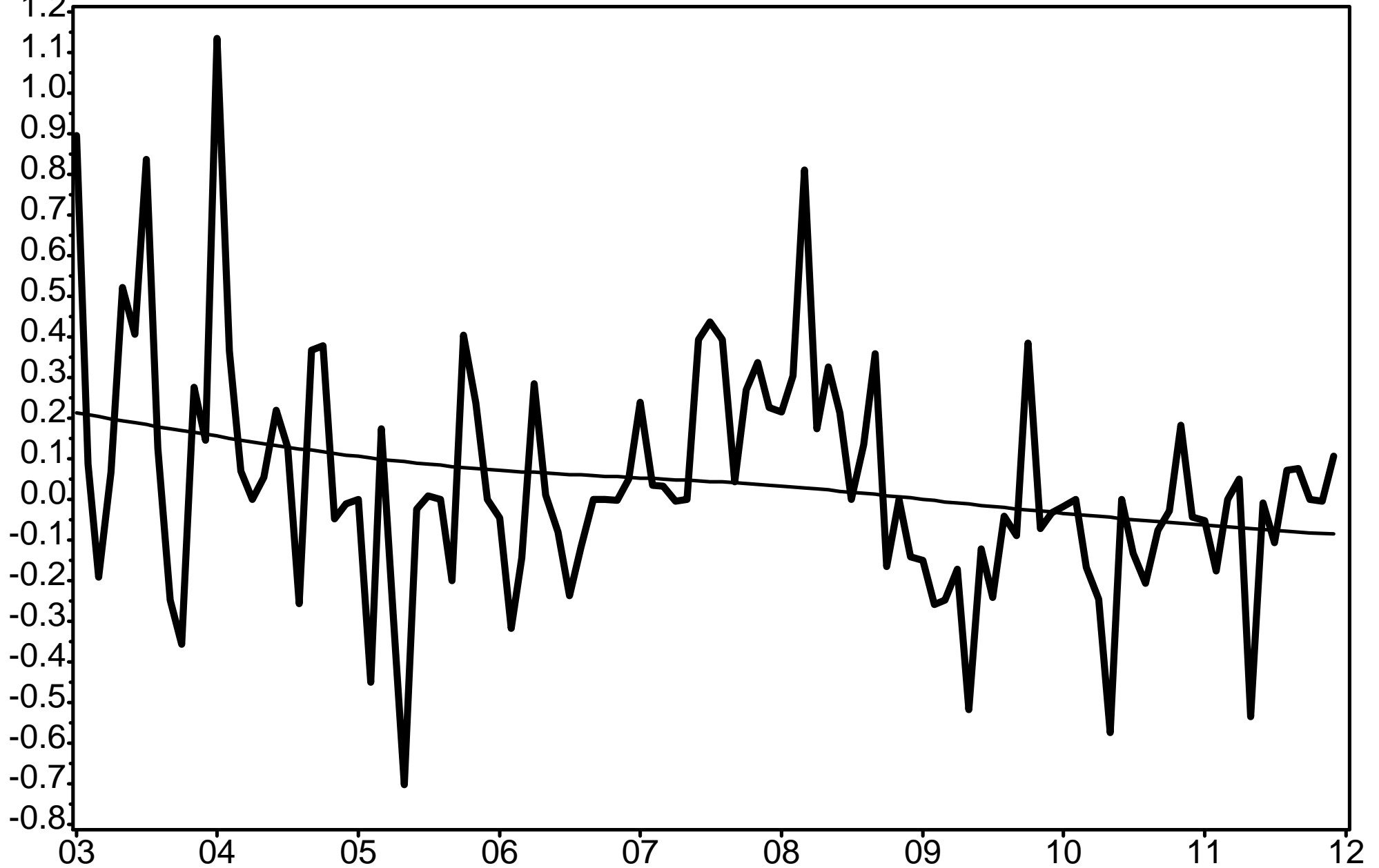
TN_mgl
(mg/l)



Cape Haze Trends Appendix - Display 322

Monthly Data Time Series
for Surface Total Nitrogen in Cape Haze
Adjusted for Seasonal Medians

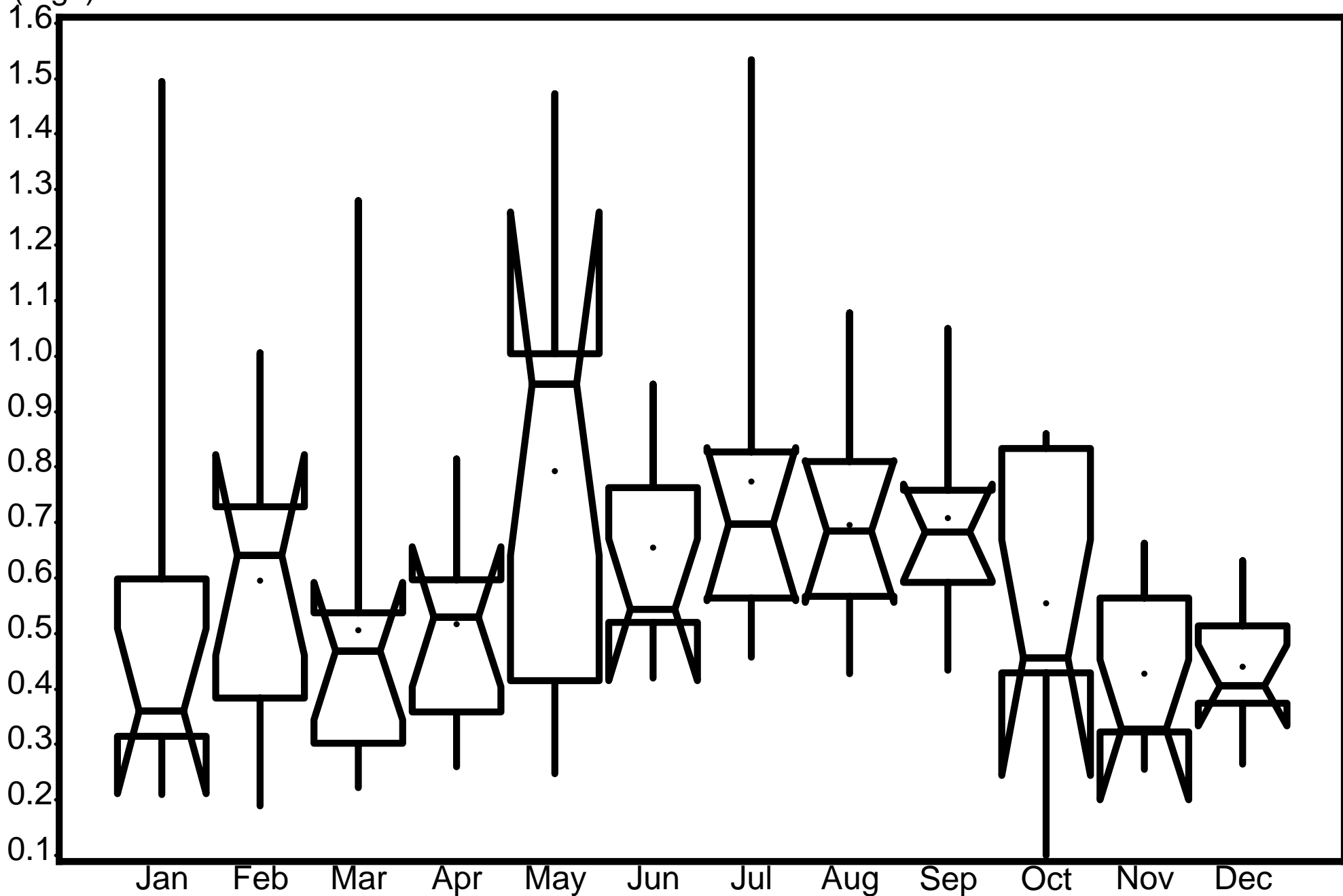
Adjusted
TN_mgl
(mg/l)



Cape Haze Trends Appendix - Display 323

Seasonal Univariate Statistics
for Surface Total Nitrogen in Cape Haze

TN_mgl
(mg/l)



Cape Haze Trends Appendix - Display 324

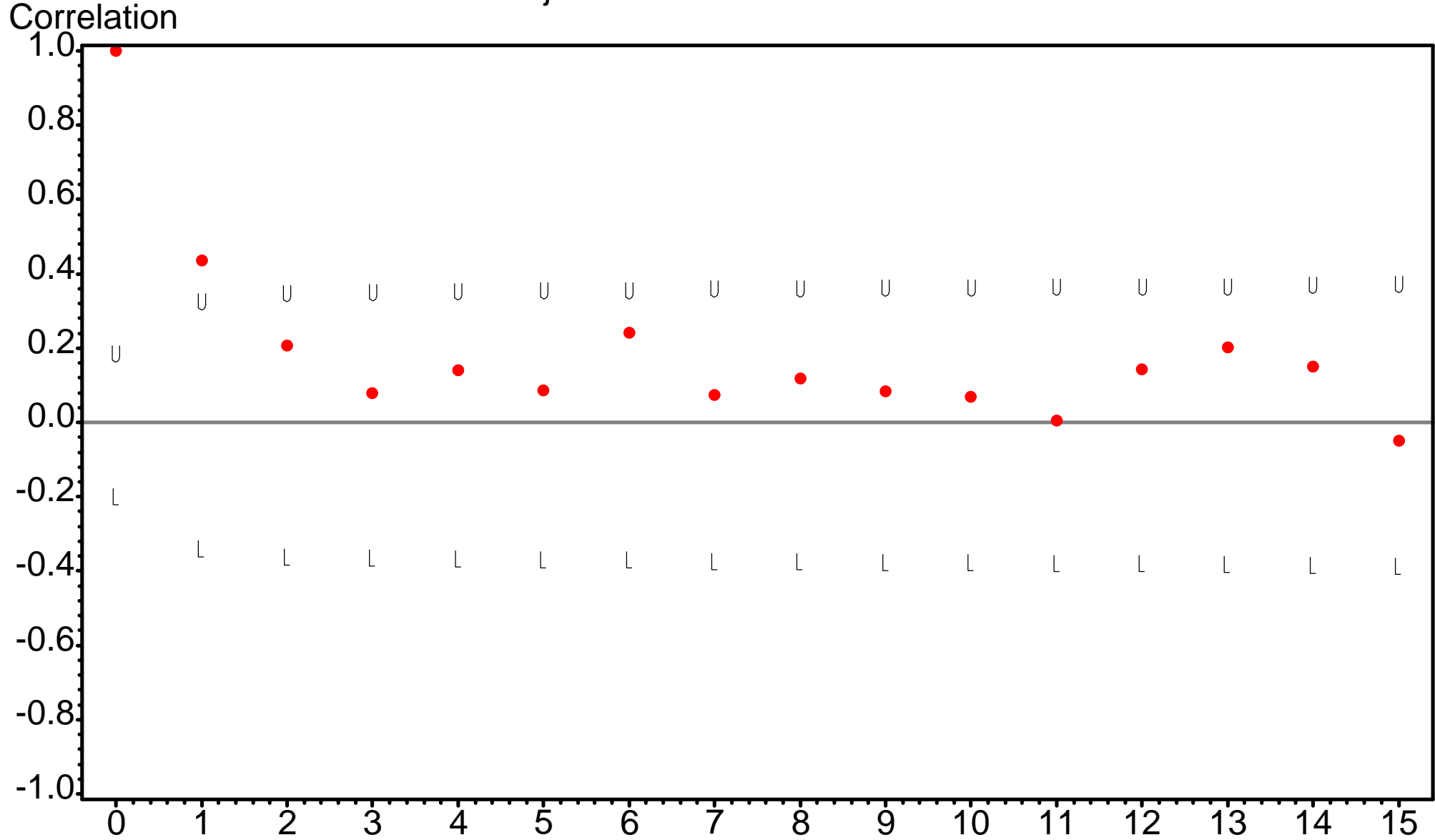
Autocorrelation Statistics for Surface Total Nitrogen in Cape Haze

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.435	0.167	0.333	-0.333
2	0.208	0.177	0.354	-0.354
3	0.079	0.179	0.358	-0.358
4	0.141	0.179	0.359	-0.359
5	0.087	0.180	0.361	-0.361
6	0.241	0.181	0.362	-0.362
7	0.075	0.184	0.368	-0.368
8	0.118	0.184	0.368	-0.368
9	0.084	0.185	0.370	-0.370
10	0.068	0.185	0.370	-0.370
11	0.006	0.185	0.371	-0.371
12	0.144	0.185	0.371	-0.371
13	0.201	0.186	0.373	-0.373
14	0.150	0.188	0.377	-0.377
15	-0.050	0.189	0.379	-0.379

Cape Haze Trends Appendix - Display 325

Correlogram for Surface Total Nitrogen in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 326
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.146	0.025	0.025	-0.023

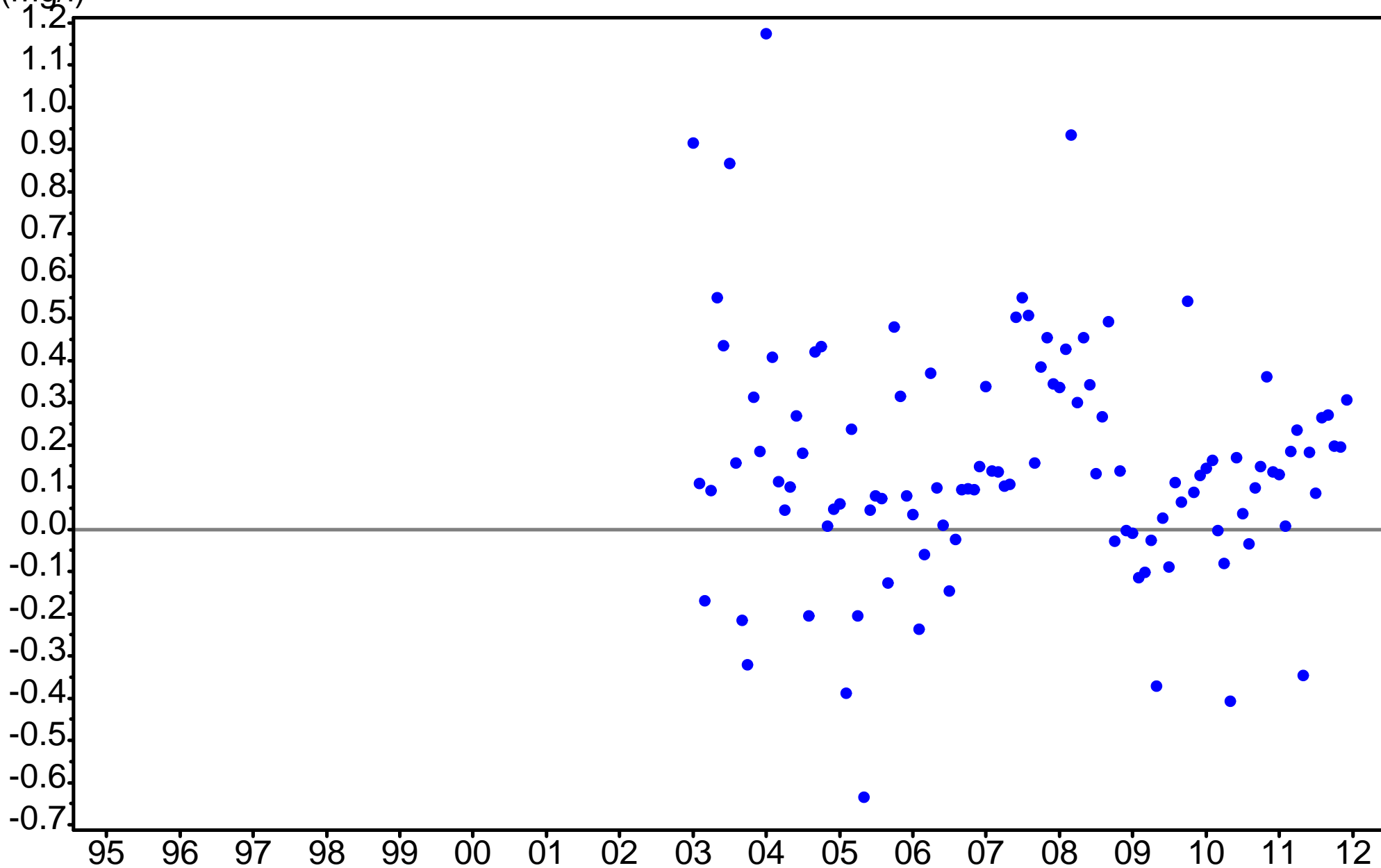
Cape Haze Trends Appendix - Display 327
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.20139	.0096122	0.15341	-0.020167

Cape Haze Trends Appendix - Display 328

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(mg/l)



Zero Reference Line Shown

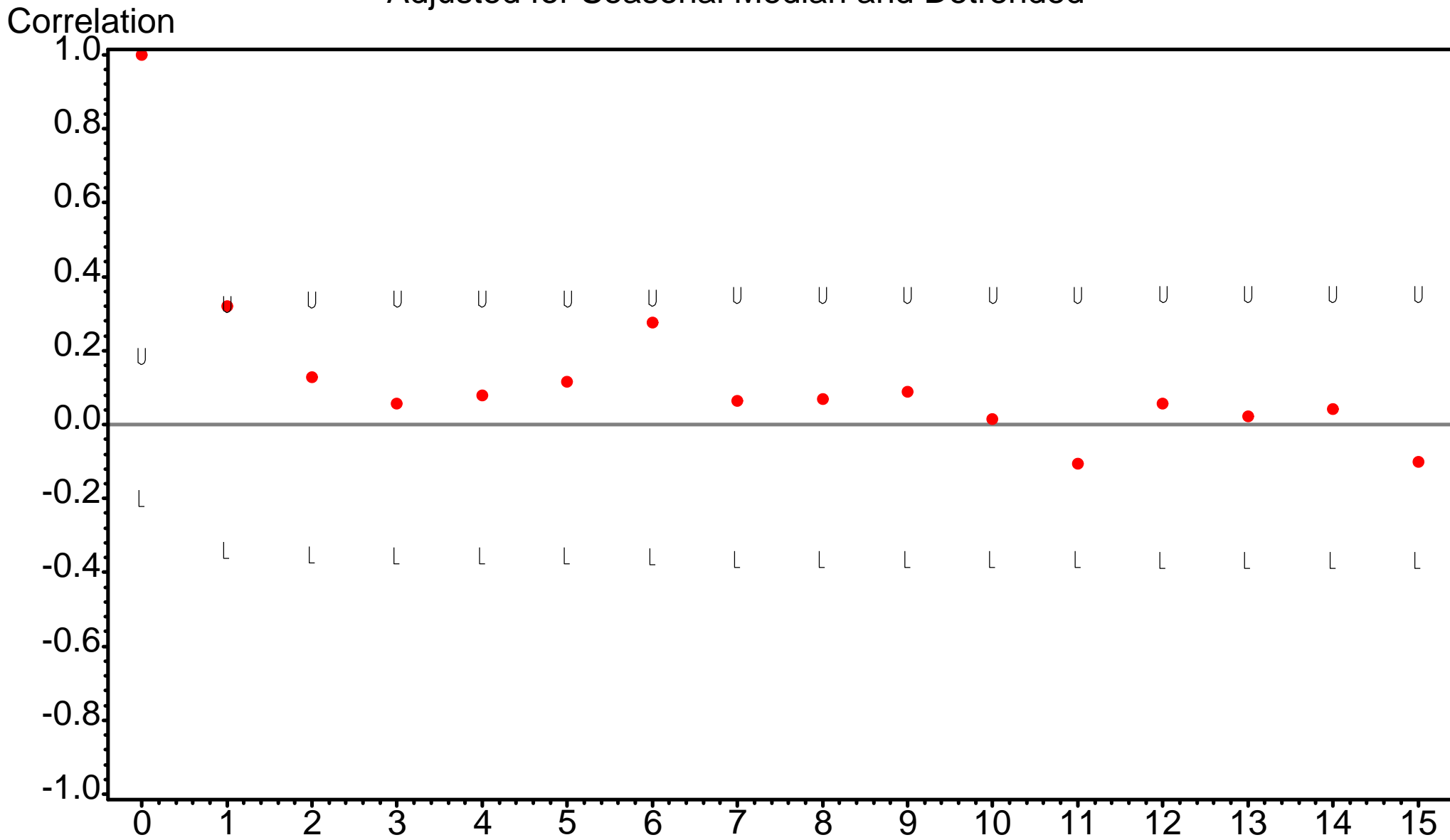
Cape Haze Trends Appendix - Display 329
Autocorrelation Statistics for Surface Total Nitrogen in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.320	0.167	0.333	-0.333
2	0.129	0.172	0.345	-0.345
3	0.057	0.173	0.346	-0.346
4	0.079	0.173	0.347	-0.347
5	0.116	0.174	0.347	-0.347
6	0.276	0.174	0.349	-0.349
7	0.063	0.178	0.357	-0.357
8	0.070	0.179	0.357	-0.357
9	0.088	0.179	0.358	-0.358
10	0.014	0.179	0.358	-0.358
11	-0.107	0.179	0.358	-0.358
12	0.056	0.180	0.360	-0.360
13	0.022	0.180	0.360	-0.360
14	0.043	0.180	0.360	-0.360
15	-0.101	0.180	0.360	-0.360

Cape Haze Trends Appendix - Display 330

Correlogram for Surface Total Nitrogen in Cape Haze

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

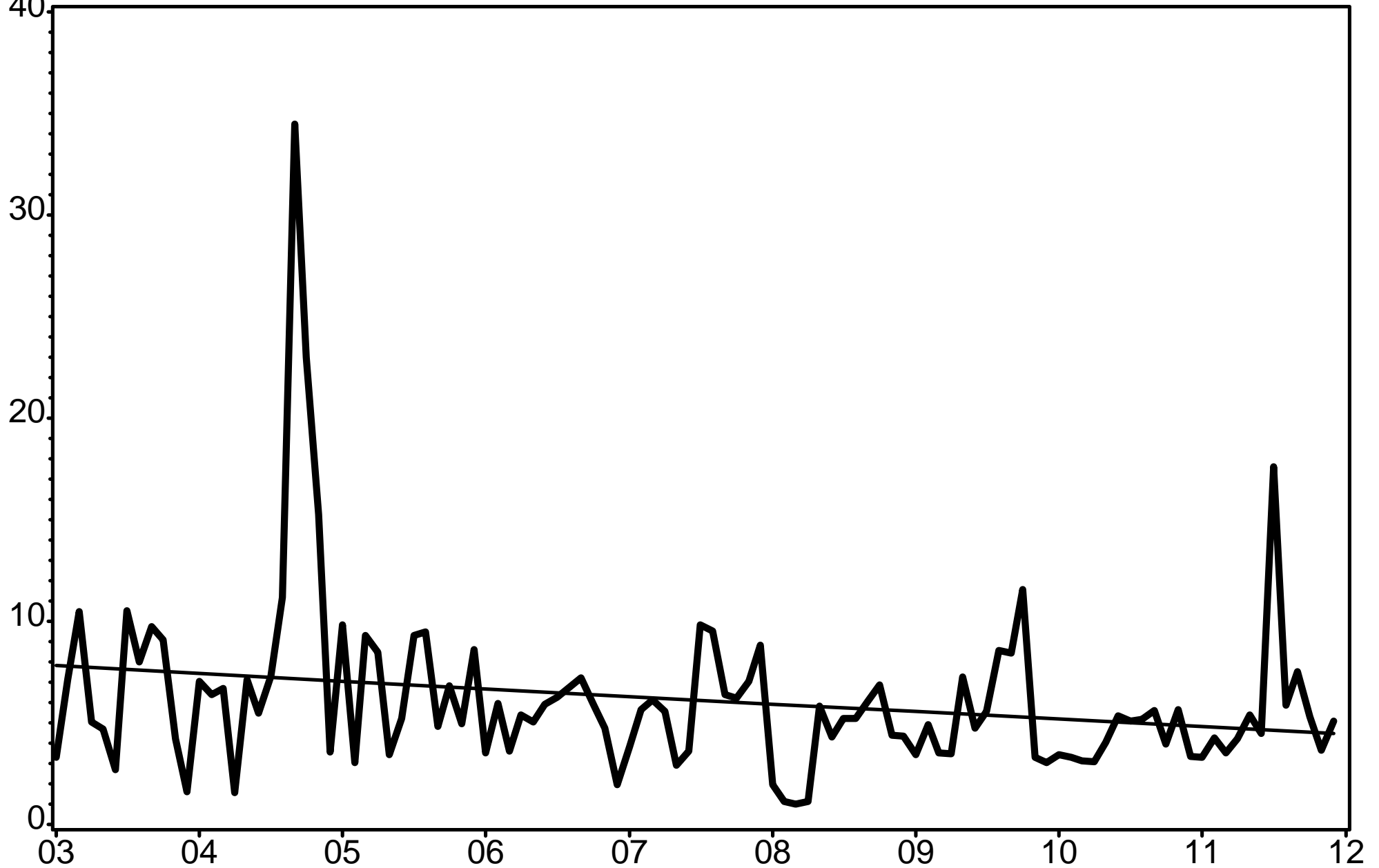
Cape Haze Trends Appendix - Display 331

Monthly Data Time Series

for Surface Total Organic Carbon in Cape Haze

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



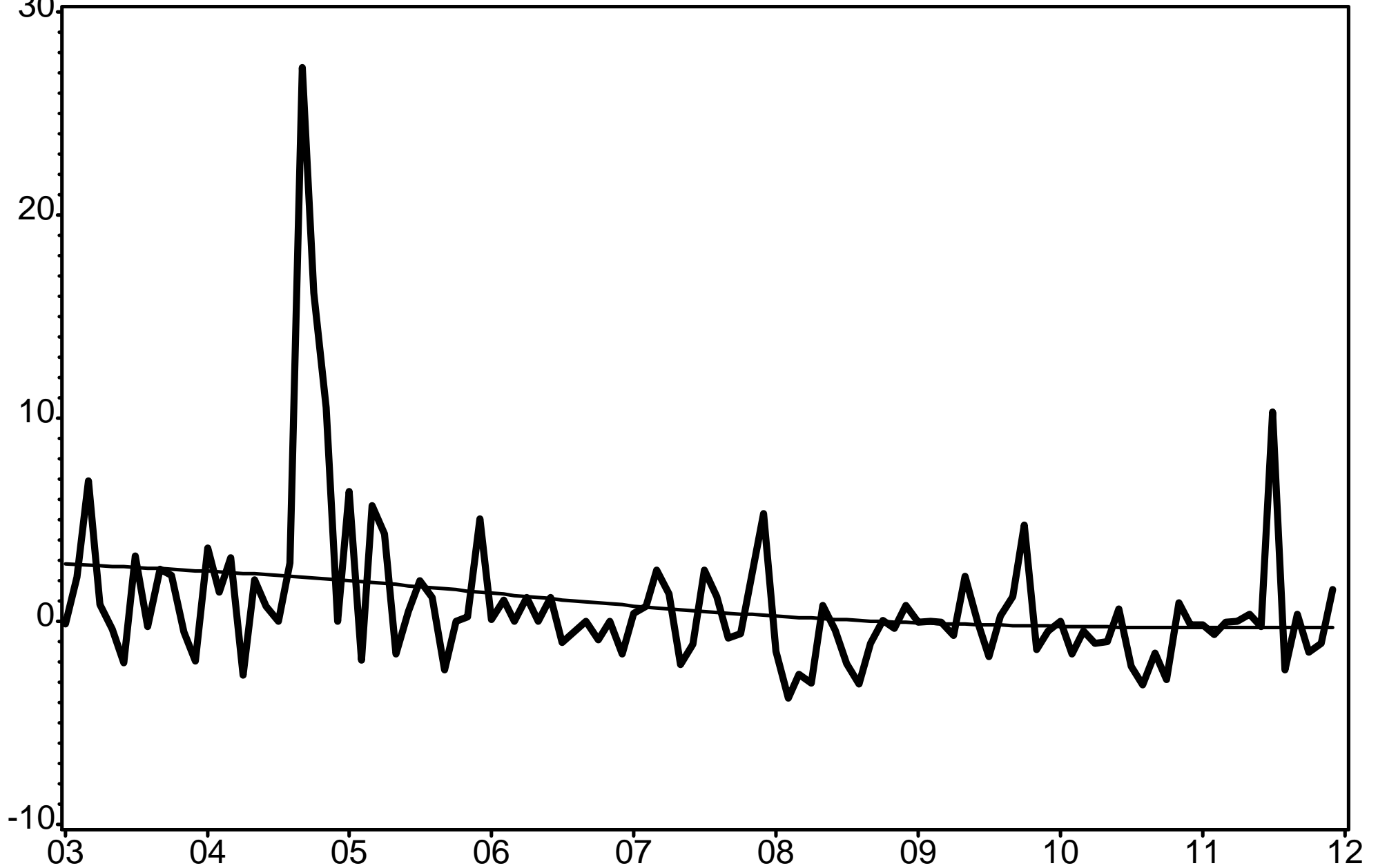
Cape Haze Trends Appendix - Display 332

Monthly Data Time Series

for Surface Total Organic Carbon in Cape Haze

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

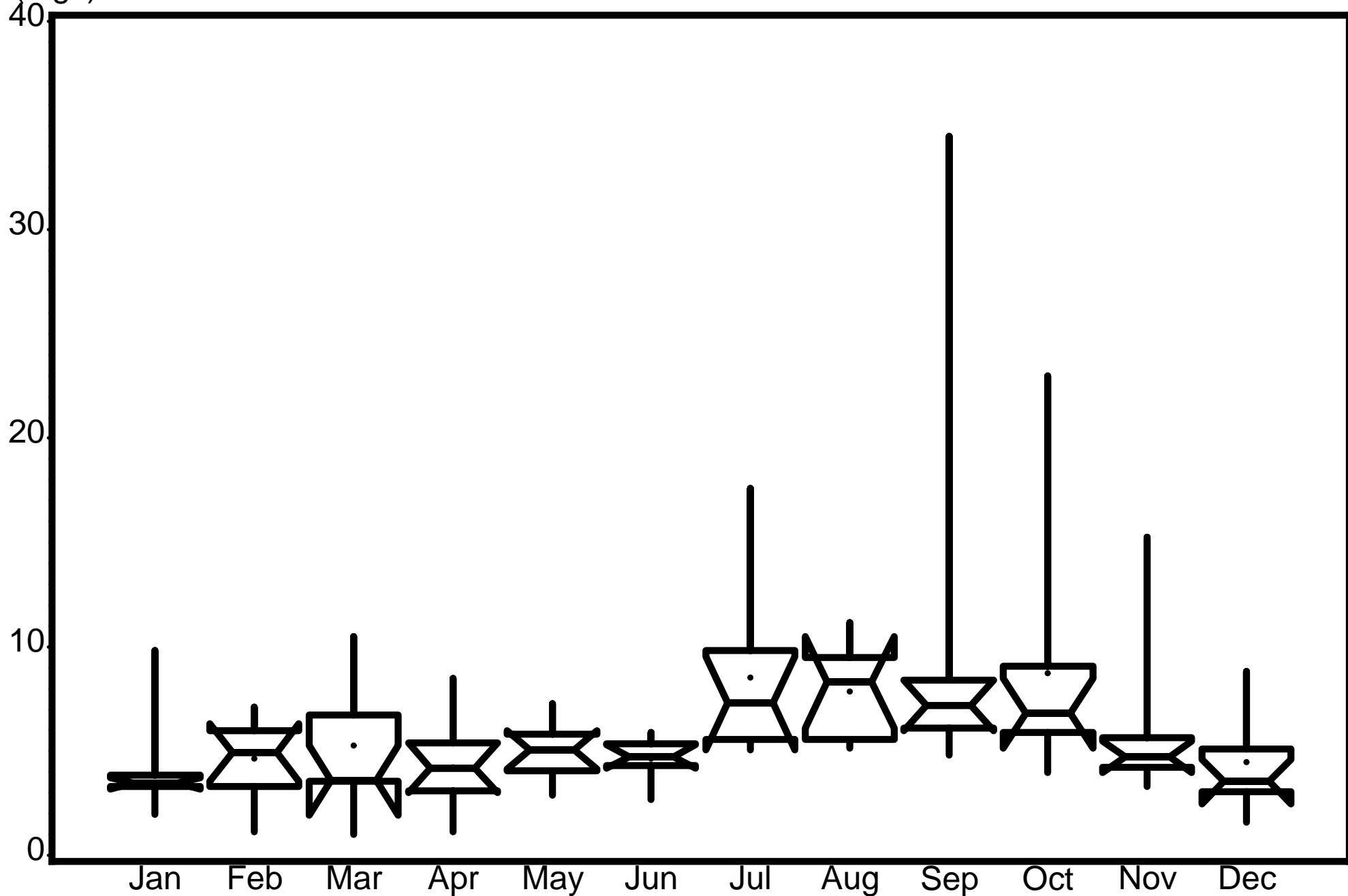


Cape Haze Trends Appendix - Display 333

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Cape Haze

TOC_mgl
(mg/l)



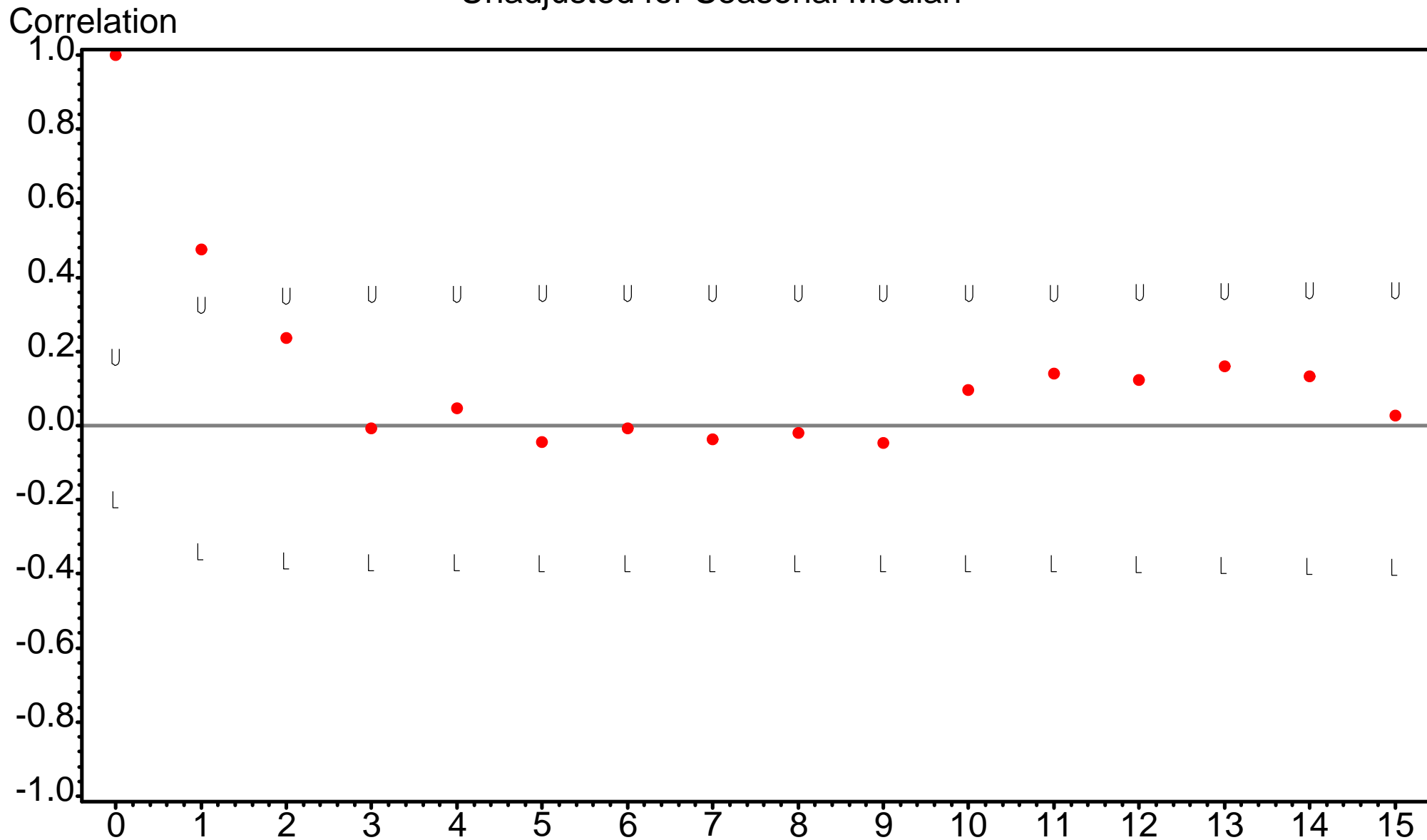
Cape Haze Trends Appendix - Display 334
Autocorrelation Statistics for Surface Total Organic Carbon in Cape Haze

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.475	0.167	0.333	-0.333
2	0.237	0.179	0.358	-0.358
3	-0.008	0.182	0.363	-0.363
4	0.047	0.182	0.363	-0.363
5	-0.045	0.182	0.364	-0.364
6	-0.008	0.182	0.364	-0.364
7	-0.037	0.182	0.364	-0.364
8	-0.020	0.182	0.364	-0.364
9	-0.046	0.182	0.364	-0.364
10	0.096	0.182	0.364	-0.364
11	0.140	0.183	0.365	-0.365
12	0.124	0.184	0.367	-0.367
13	0.160	0.184	0.369	-0.369
14	0.132	0.186	0.371	-0.371
15	0.026	0.186	0.373	-0.373

Cape Haze Trends Appendix - Display 335

Correlogram for Surface Total Organic Carbon in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 336
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.179	.006	.006	-0.259

Cape Haze Trends Appendix - Display 337
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23113	.00312379	0.065487	-0.25317

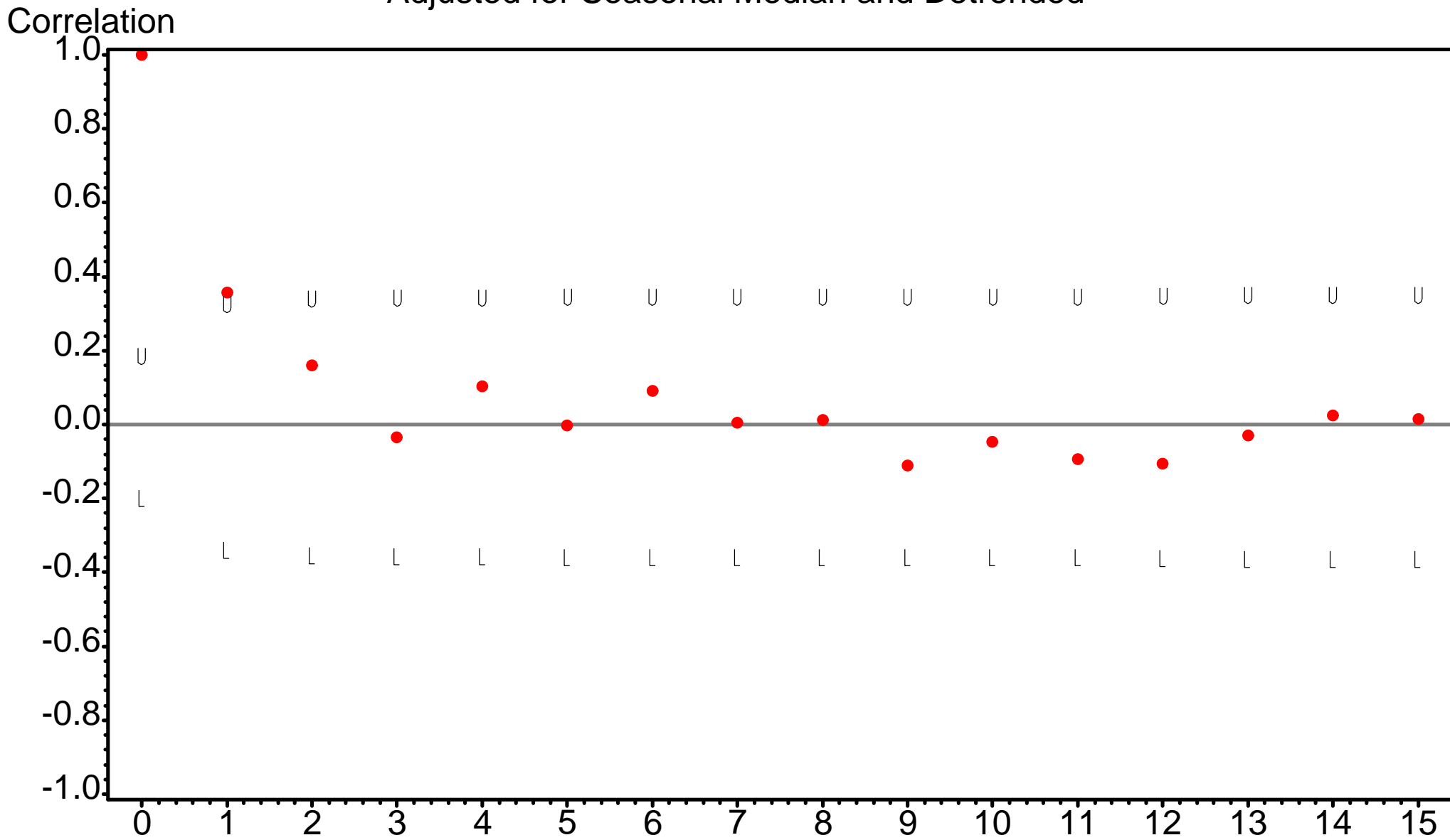
Cape Haze Trends Appendix - Display 339
Autocorrelation Statistics for Surface Total Organic Carbon in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.356	0.167	0.333	-0.333
2	0.159	0.174	0.347	-0.347
3	-0.035	0.175	0.350	-0.350
4	0.103	0.175	0.350	-0.350
5	-0.003	0.176	0.351	-0.351
6	0.091	0.176	0.351	-0.351
7	0.006	0.176	0.352	-0.352
8	0.012	0.176	0.352	-0.352
9	-0.111	0.176	0.352	-0.352
10	-0.046	0.177	0.353	-0.353
11	-0.094	0.177	0.353	-0.353
12	-0.106	0.177	0.354	-0.354
13	-0.029	0.178	0.356	-0.356
14	0.025	0.178	0.356	-0.356
15	0.014	0.178	0.356	-0.356

Cape Haze Trends Appendix - Display 340

Correlogram for Surface Total Organic Carbon in Cape Haze

Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

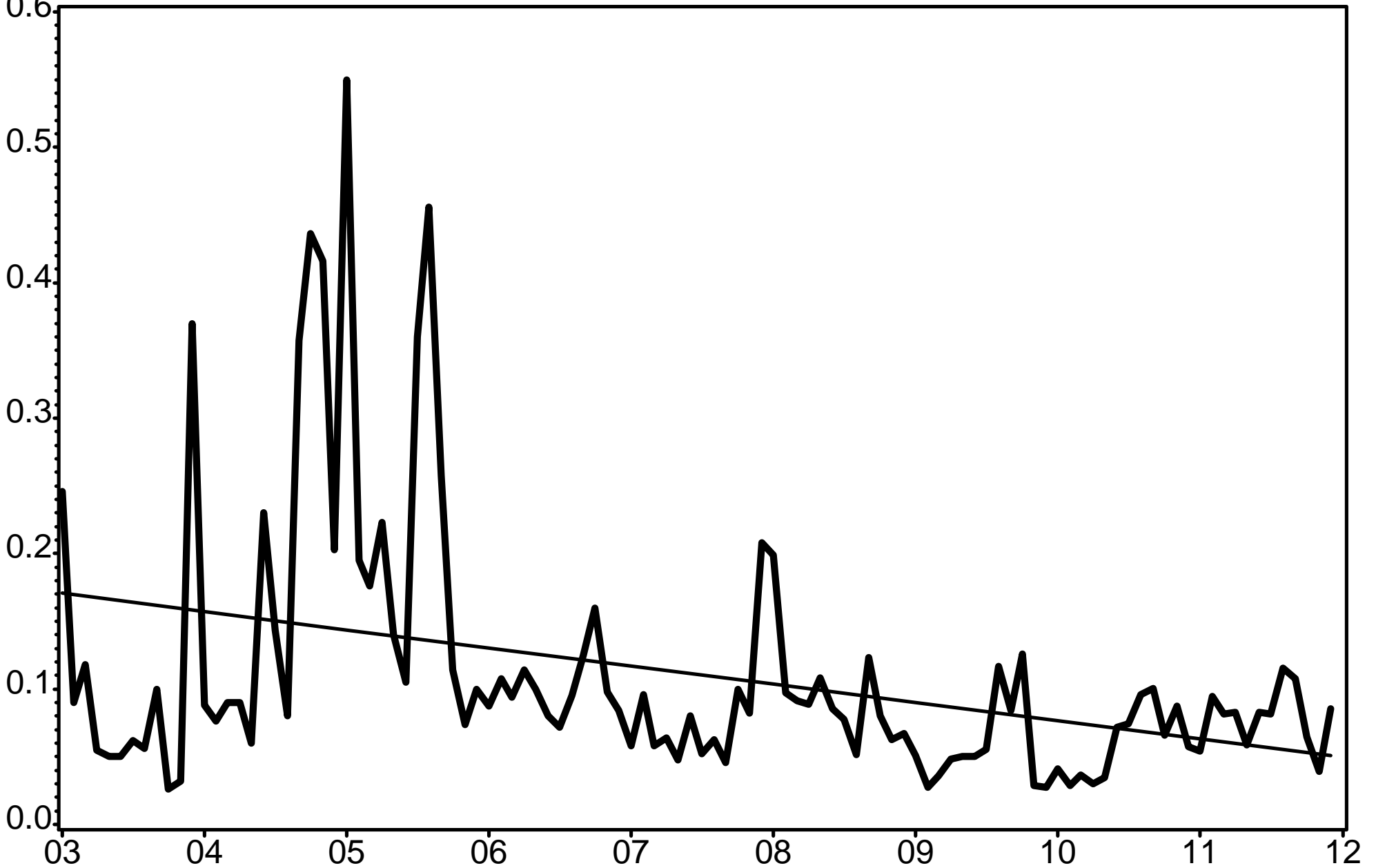
Cape Haze Trends Appendix - Display 341

Monthly Data Time Series

for Surface Total Phosphorous in Cape Haze

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



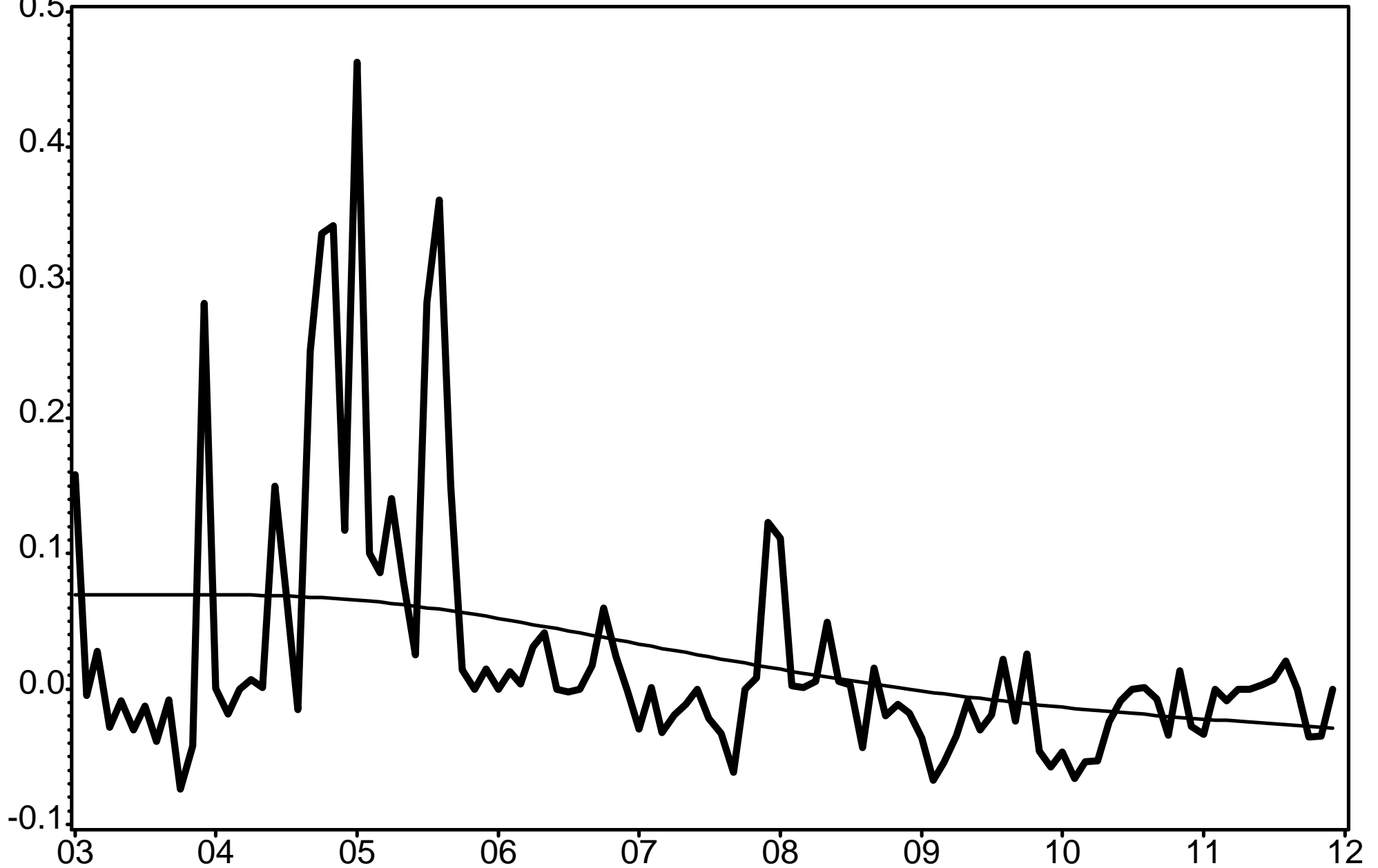
Cape Haze Trends Appendix - Display 342

Monthly Data Time Series

for Surface Total Phosphorous in Cape Haze

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

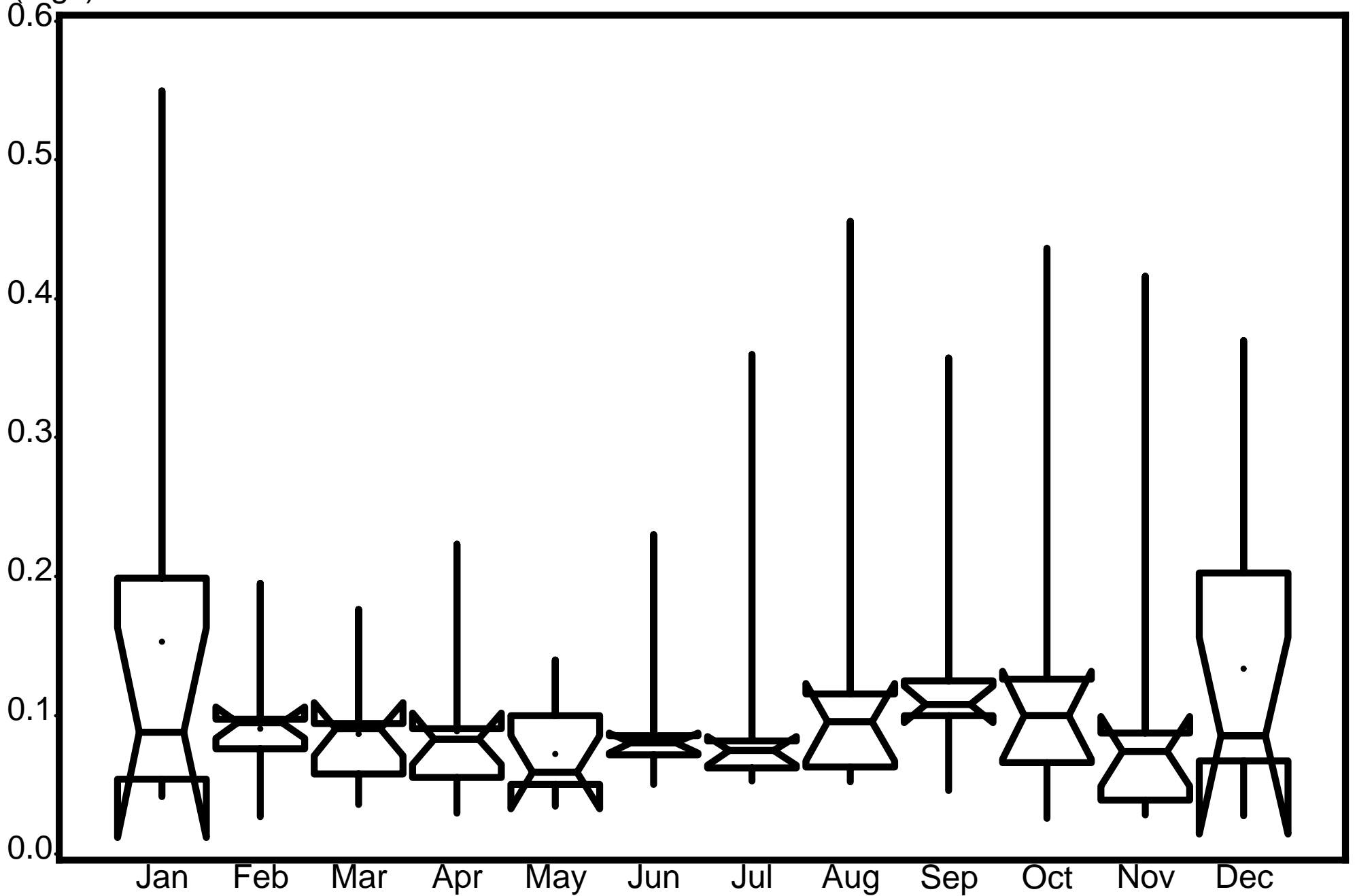


Cape Haze Trends Appendix - Display 343

Seasonal Univariate Statistics

for Surface Total Phosphorous in Cape Haze

TP_mgl
(mg/l)



Cape Haze Trends Appendix - Display 344

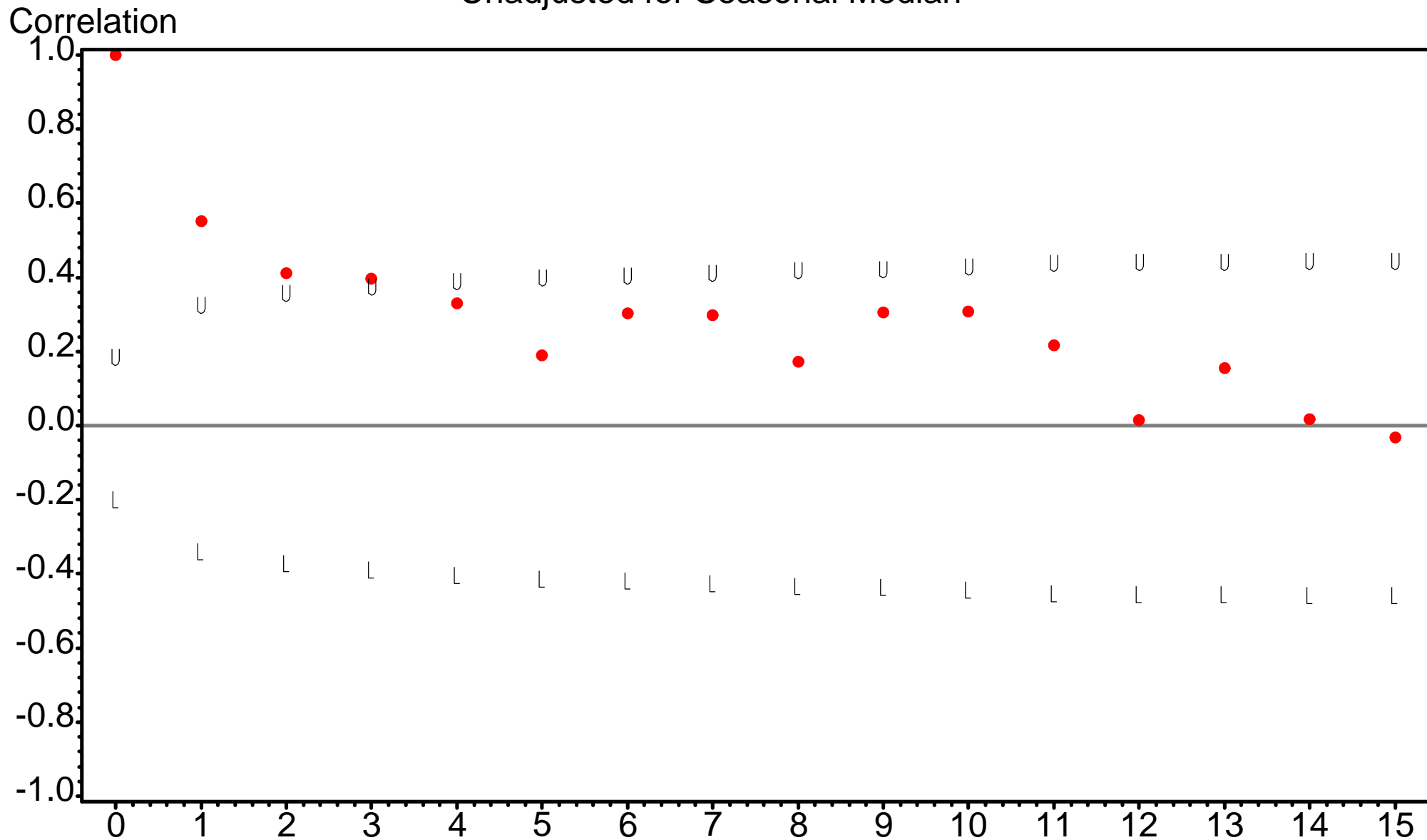
Autocorrelation Statistics for Surface Total Phosphorous in Cape Haze

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.551	0.167	0.333	-0.333
2	0.412	0.183	0.365	-0.365
3	0.396	0.191	0.382	-0.382
4	0.330	0.199	0.397	-0.397
5	0.189	0.204	0.407	-0.407
6	0.303	0.205	0.410	-0.410
7	0.299	0.209	0.419	-0.419
8	0.173	0.213	0.427	-0.427
9	0.306	0.215	0.429	-0.429
10	0.307	0.219	0.437	-0.437
11	0.217	0.223	0.445	-0.445
12	0.014	0.224	0.449	-0.449
13	0.155	0.224	0.449	-0.449
14	0.018	0.225	0.451	-0.451
15	-0.031	0.226	0.451	-0.451

Cape Haze Trends Appendix - Display 345

Correlogram for Surface Total Phosphorous in Cape Haze

Unadjusted for Seasonal Median



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 346
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.24	0	0	-.006

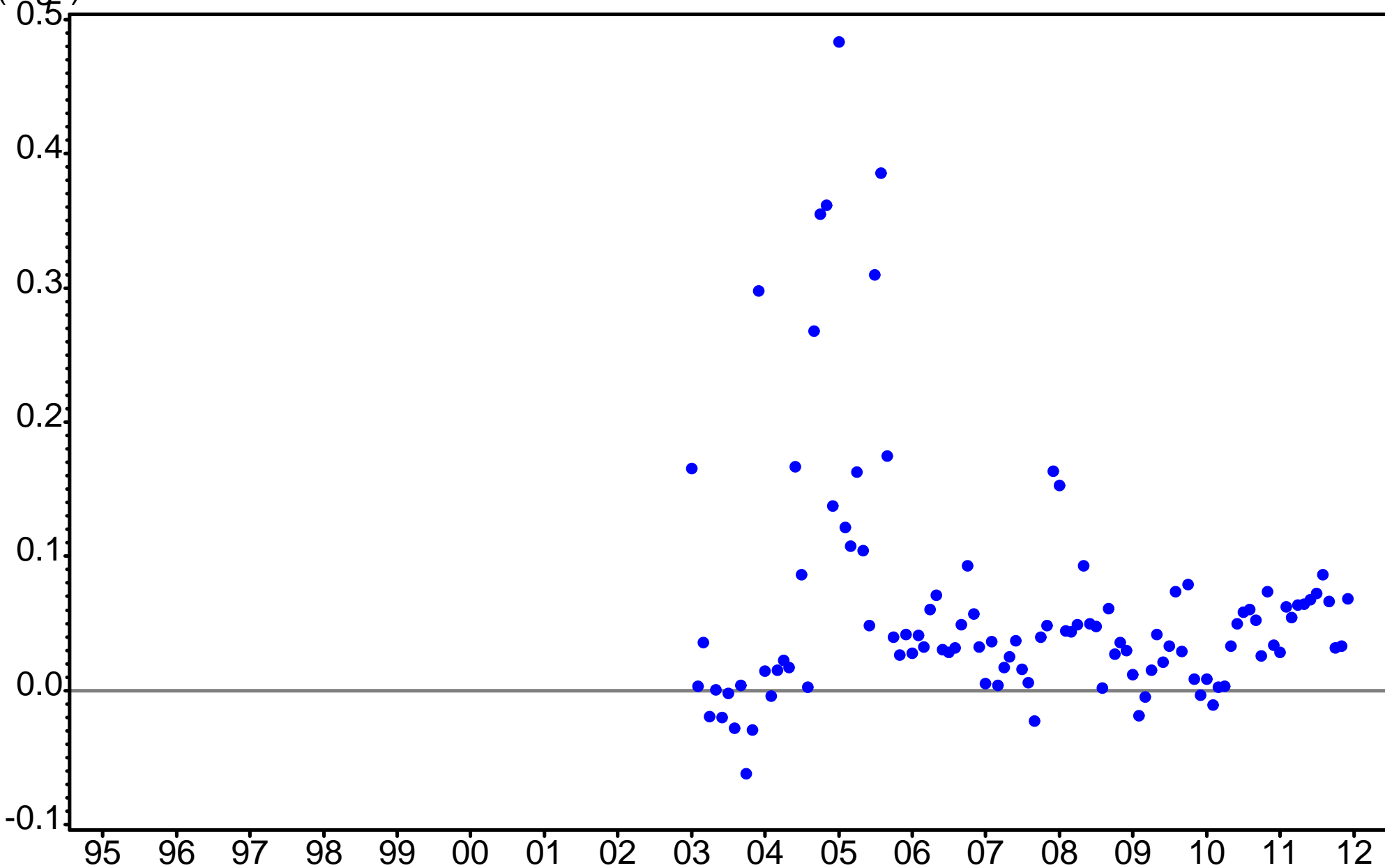
Cape Haze Trends Appendix - Display 347
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.26620	.000584473	0.1236	-.006875

Cape Haze Trends Appendix - Display 348

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(mg/l)



Zero Reference Line Shown

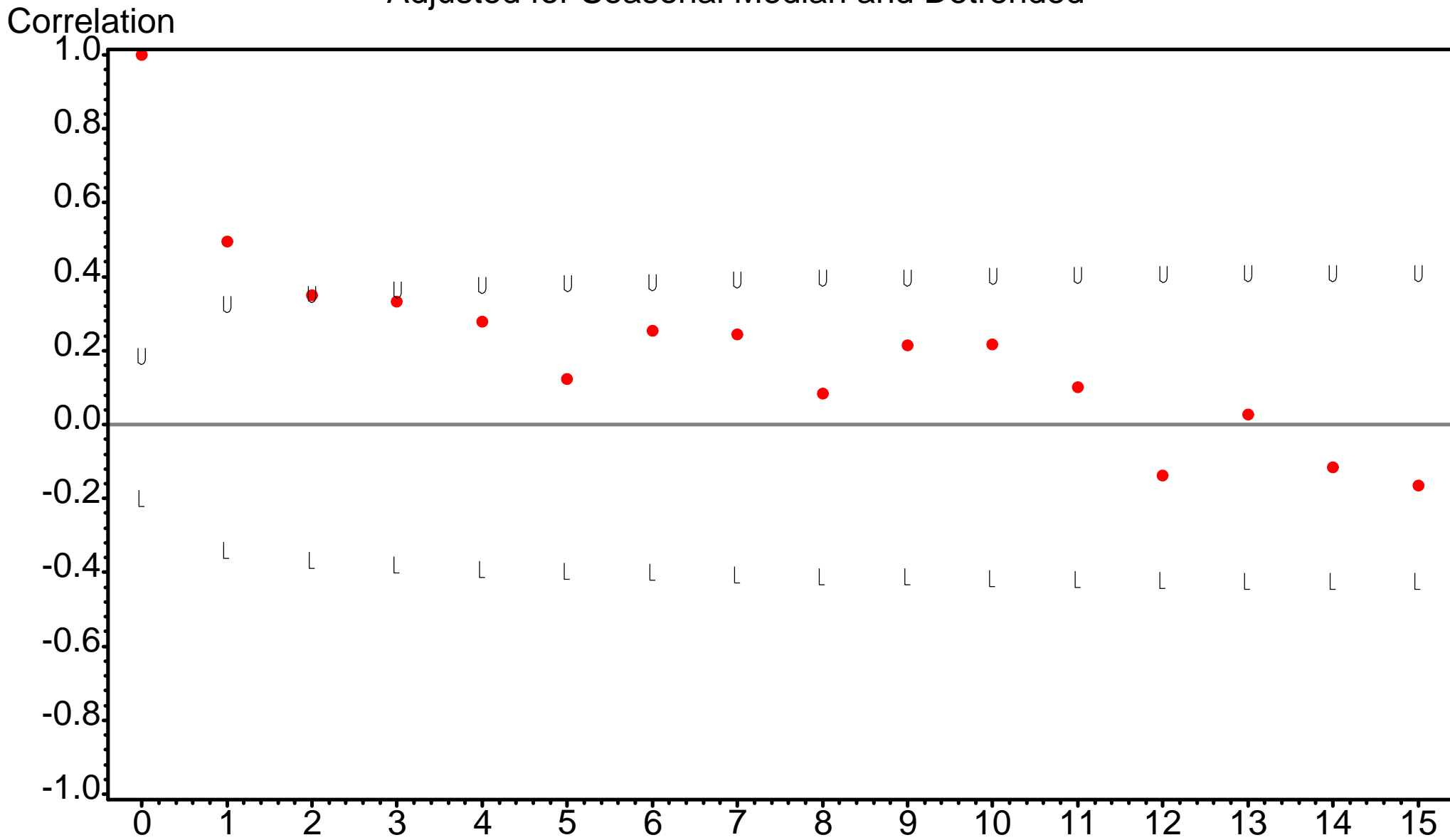
Cape Haze Trends Appendix - Display 349
Autocorrelation Statistics for Surface Total Phosphorous in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.496	0.167	0.333	-0.333
2	0.349	0.180	0.360	-0.360
3	0.332	0.186	0.372	-0.372
4	0.279	0.191	0.383	-0.383
5	0.123	0.195	0.390	-0.390
6	0.253	0.196	0.392	-0.392
7	0.245	0.199	0.398	-0.398
8	0.084	0.202	0.403	-0.403
9	0.215	0.202	0.404	-0.404
10	0.217	0.204	0.408	-0.408
11	0.100	0.206	0.412	-0.412
12	-0.139	0.207	0.413	-0.413
13	0.027	0.207	0.415	-0.415
14	-0.115	0.207	0.415	-0.415
15	-0.166	0.208	0.416	-0.416

Cape Haze Trends Appendix - Display 350

Correlogram for Surface Total Phosphorous in Cape Haze

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

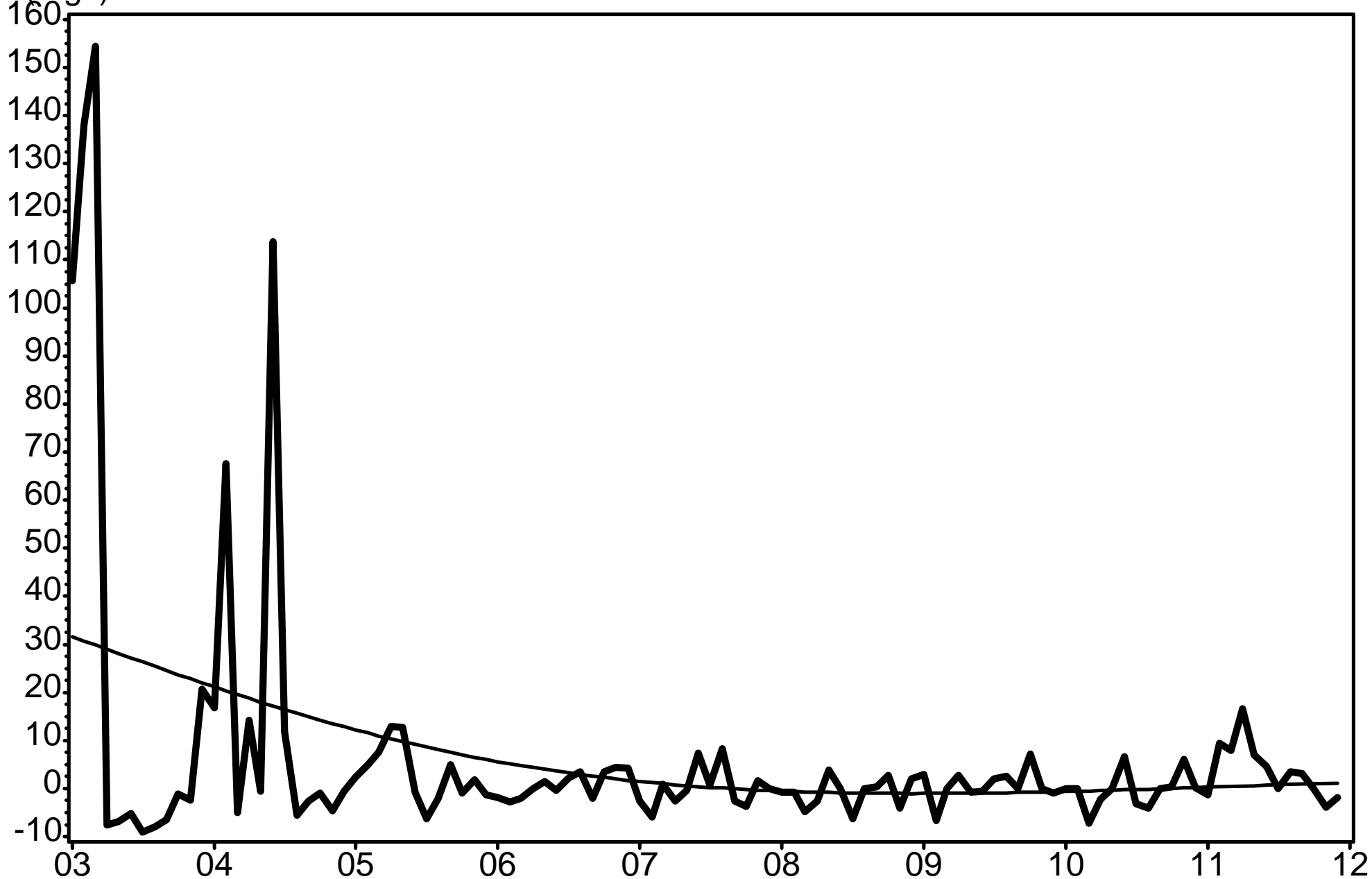
Cape Haze Trends Appendix - Display 352

Monthly Data Time Series

for Surface Total Suspended Solids in Cape Haze

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

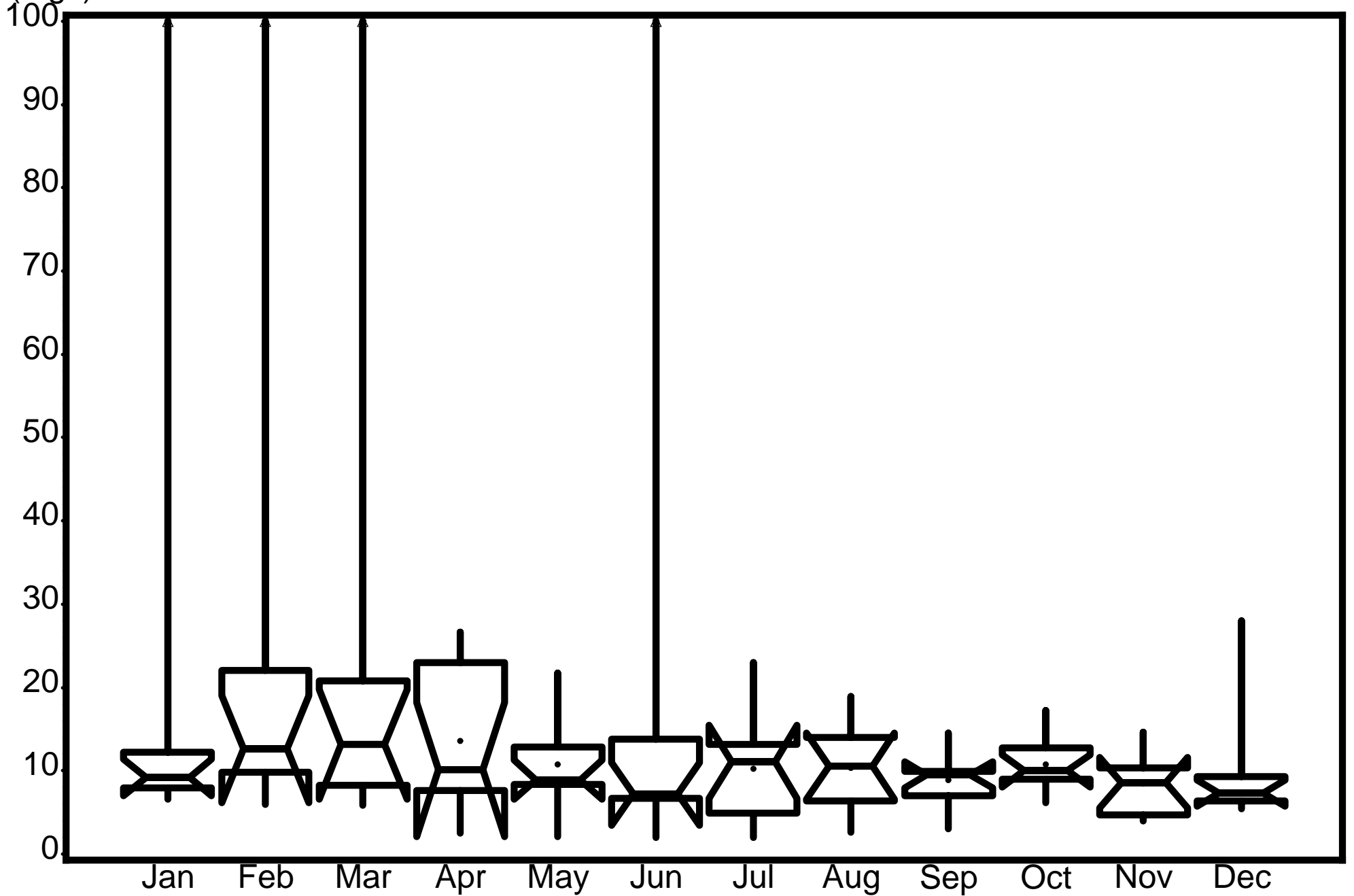


Cape Haze Trends Appendix - Display 353

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Cape Haze

TSS_mgl
(mg/l)



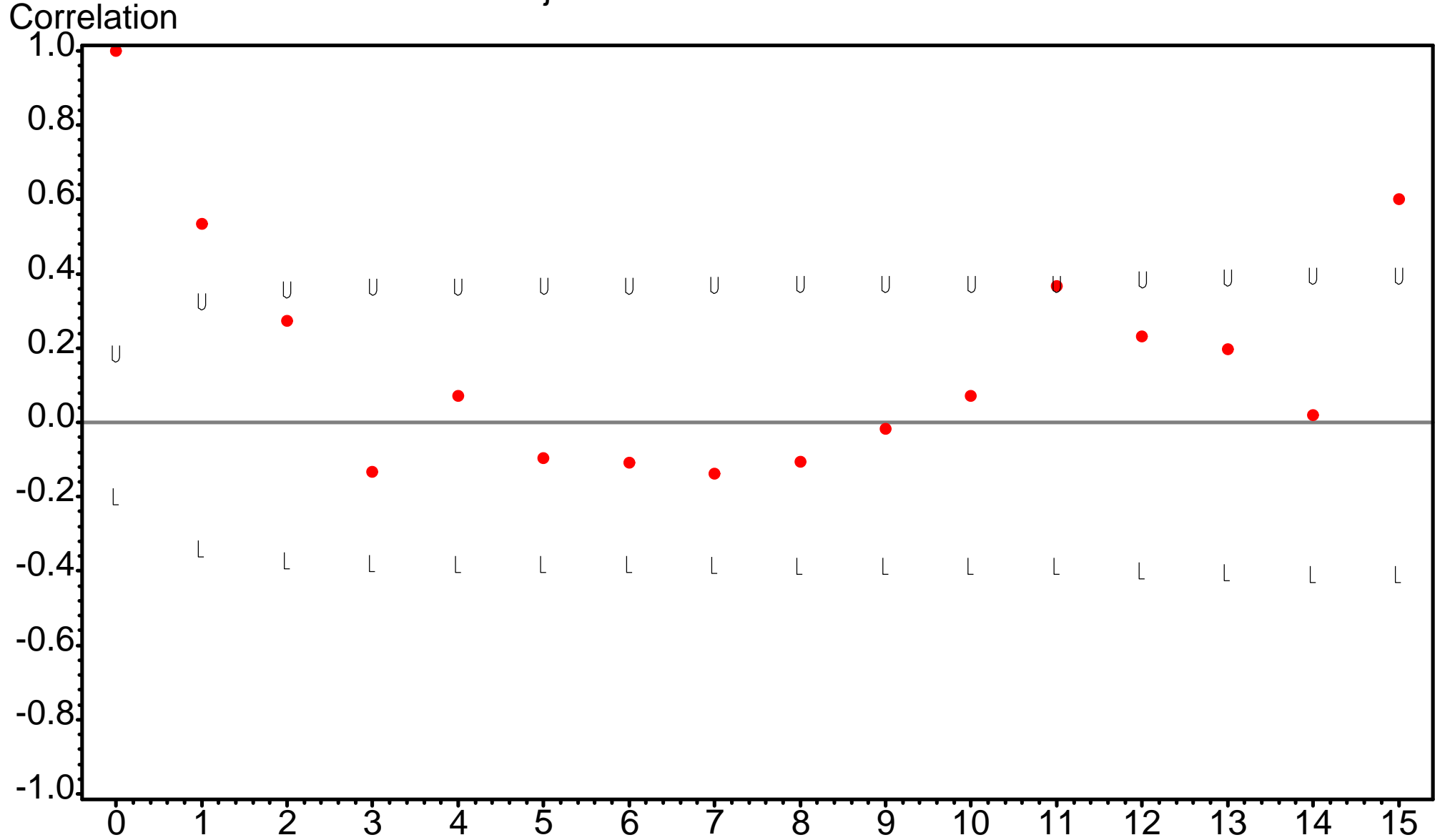
Cape Haze Trends Appendix - Display 354
Autocorrelation Statistics for Surface Total Suspended Solids in Cape Haze

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.535	0.167	0.333	-0.333
2	0.274	0.182	0.364	-0.364
3	-0.134	0.186	0.371	-0.371
4	0.072	0.187	0.373	-0.373
5	-0.095	0.187	0.374	-0.374
6	-0.109	0.187	0.375	-0.375
7	-0.137	0.188	0.376	-0.376
8	-0.107	0.189	0.378	-0.378
9	-0.016	0.189	0.379	-0.379
10	0.071	0.189	0.379	-0.379
11	0.367	0.190	0.379	-0.379
12	0.232	0.196	0.392	-0.392
13	0.196	0.199	0.397	-0.397
14	0.020	0.200	0.401	-0.401
15	0.601	0.200	0.401	-0.401

Cape Haze Trends Appendix - Display 355

Correlogram for Surface Total Suspended Solids in Cape Haze

Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Cape Haze Trends Appendix - Display 356
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Cape Haze
Unadjusted for Seasonal Medians

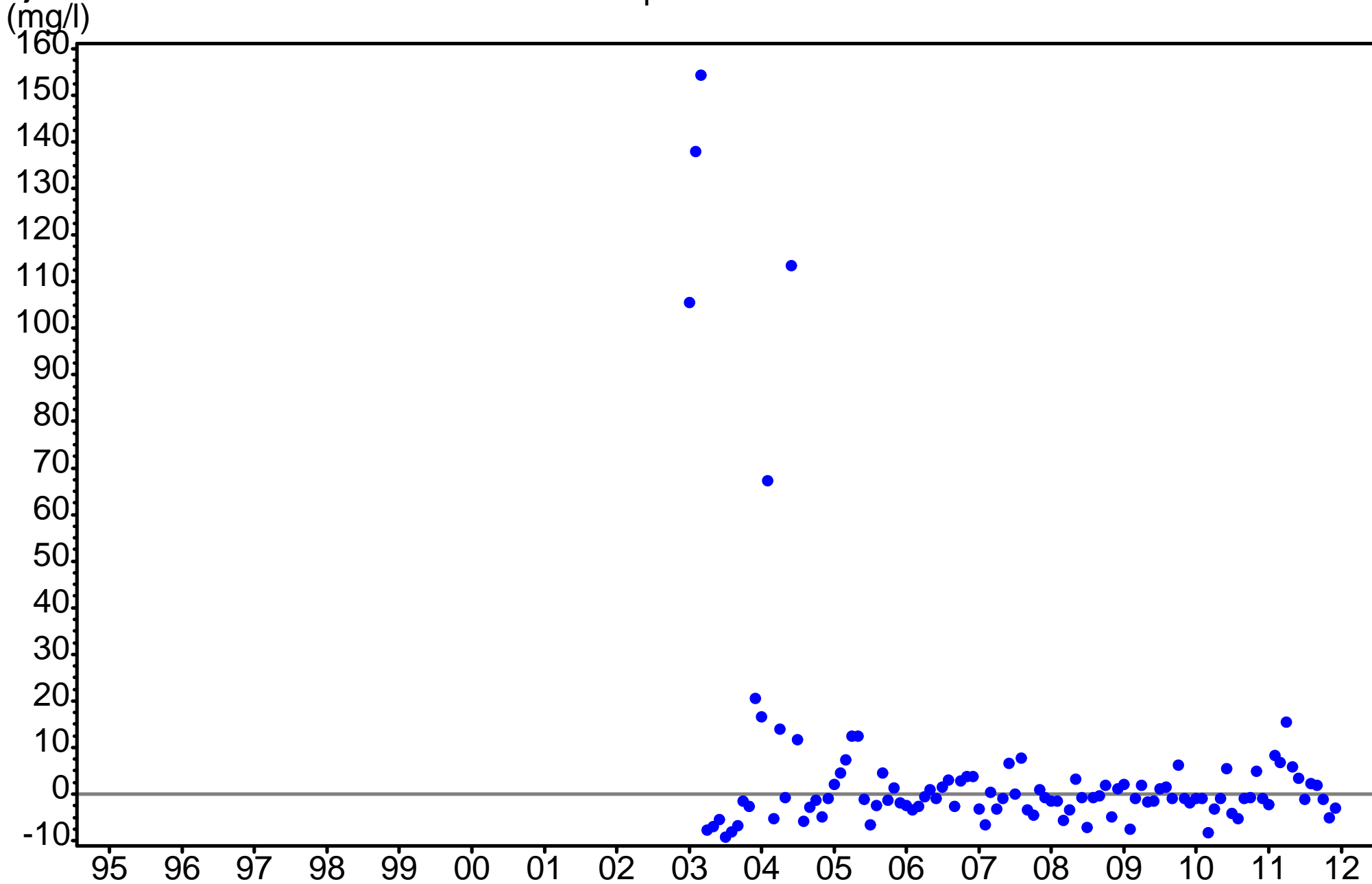
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.027	0.677	0.677	0.098

Cape Haze Trends Appendix - Display 357
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.055556	0.4888	0.36625	0.12142

Cape Haze Trends Appendix - Display 358

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Cape Haze



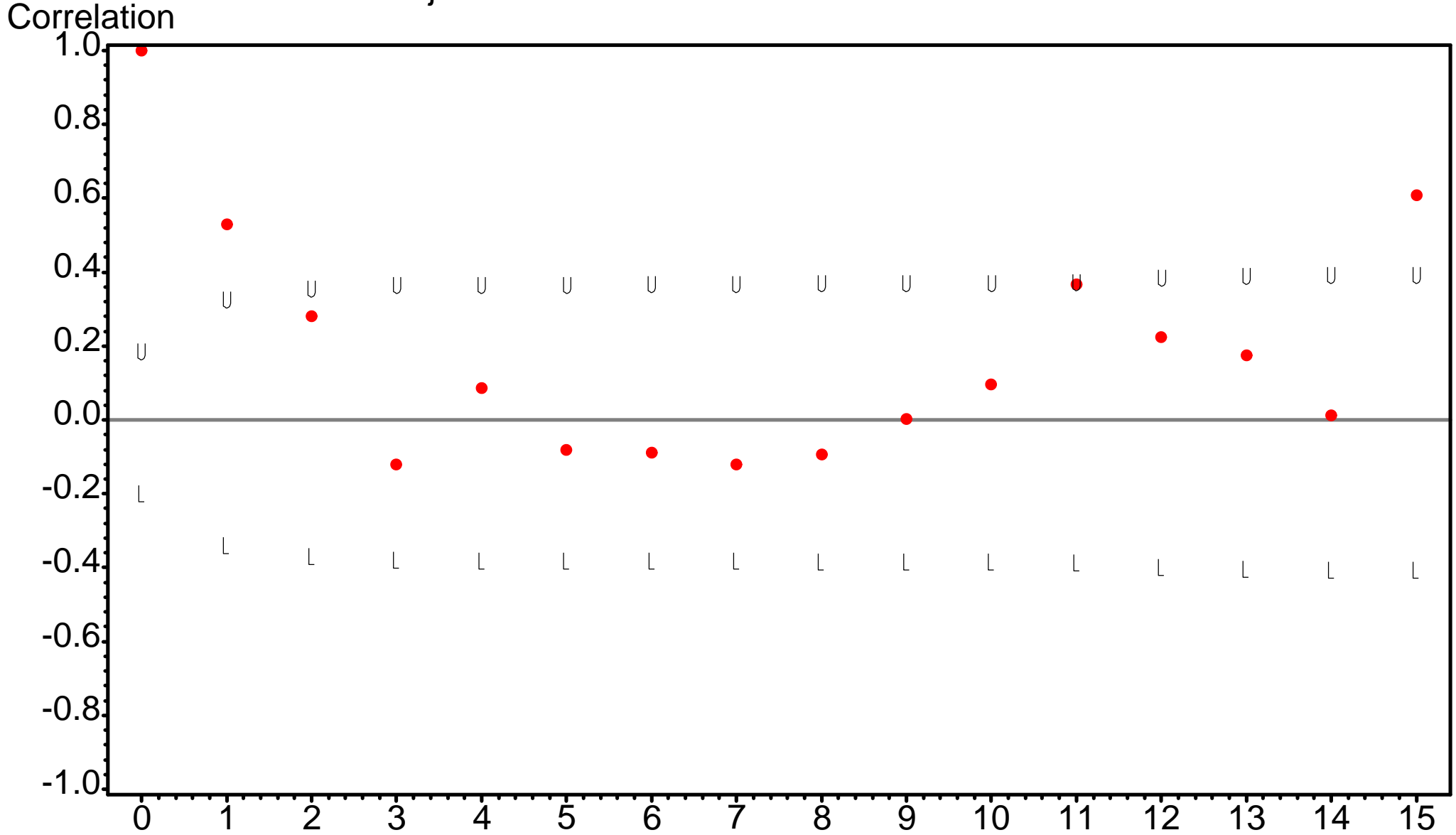
Cape Haze Trends Appendix - Display 359
Autocorrelation Statistics for Surface Total Suspended Solids in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.530	0.167	0.333	-0.333
2	0.281	0.182	0.363	-0.363
3	-0.120	0.186	0.371	-0.371
4	0.086	0.186	0.373	-0.373
5	-0.080	0.187	0.373	-0.373
6	-0.088	0.187	0.374	-0.374
7	-0.121	0.187	0.375	-0.375
8	-0.093	0.188	0.376	-0.376
9	0.003	0.189	0.377	-0.377
10	0.097	0.189	0.377	-0.377
11	0.368	0.189	0.378	-0.378
12	0.224	0.195	0.391	-0.391
13	0.174	0.198	0.396	-0.396
14	0.012	0.199	0.399	-0.399
15	0.607	0.199	0.399	-0.399

Cape Haze Trends Appendix - Display 360

Correlogram for Surface Total Suspended Solids in Cape Haze

Adjusted for Seasonal Median and Detrended

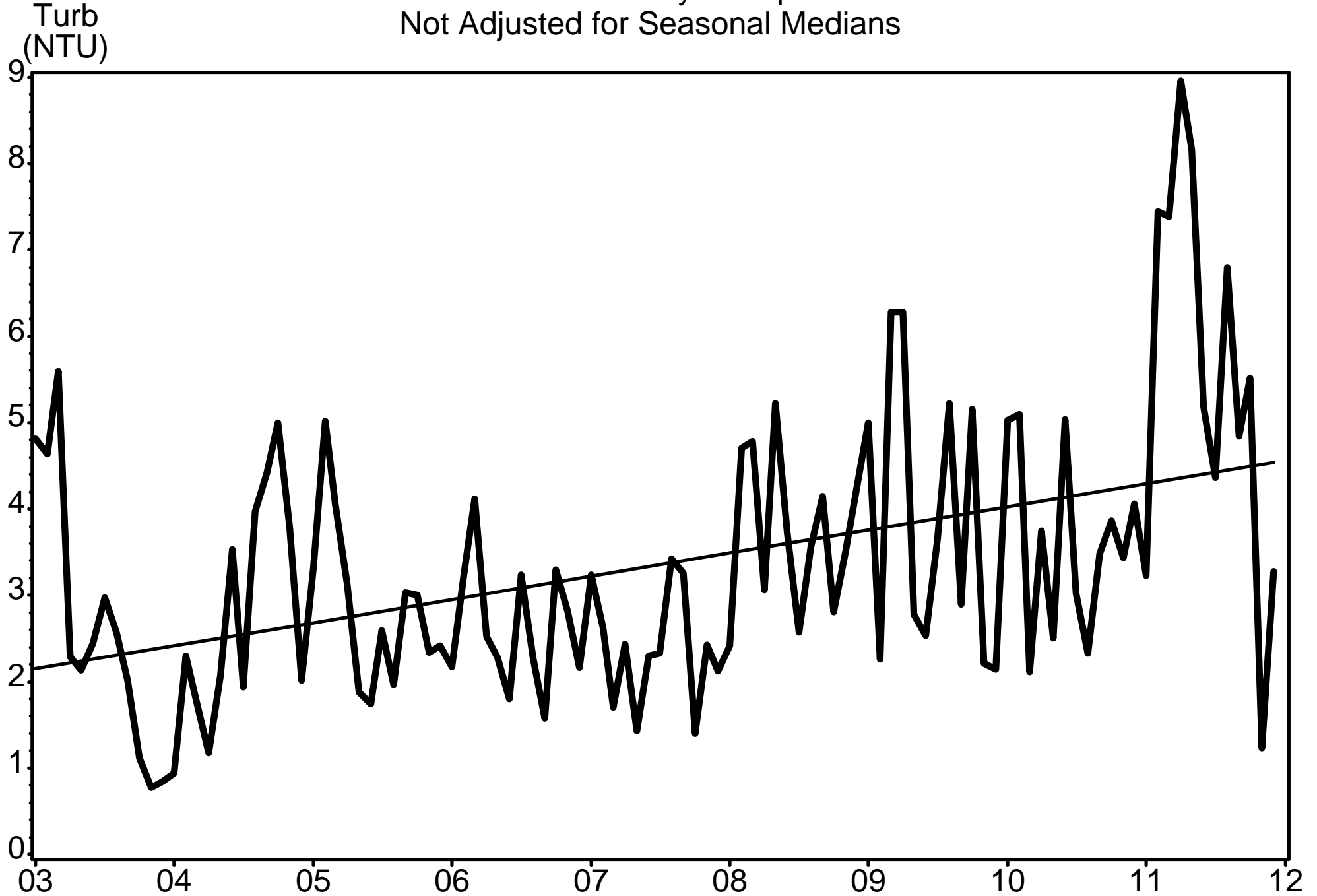


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 361

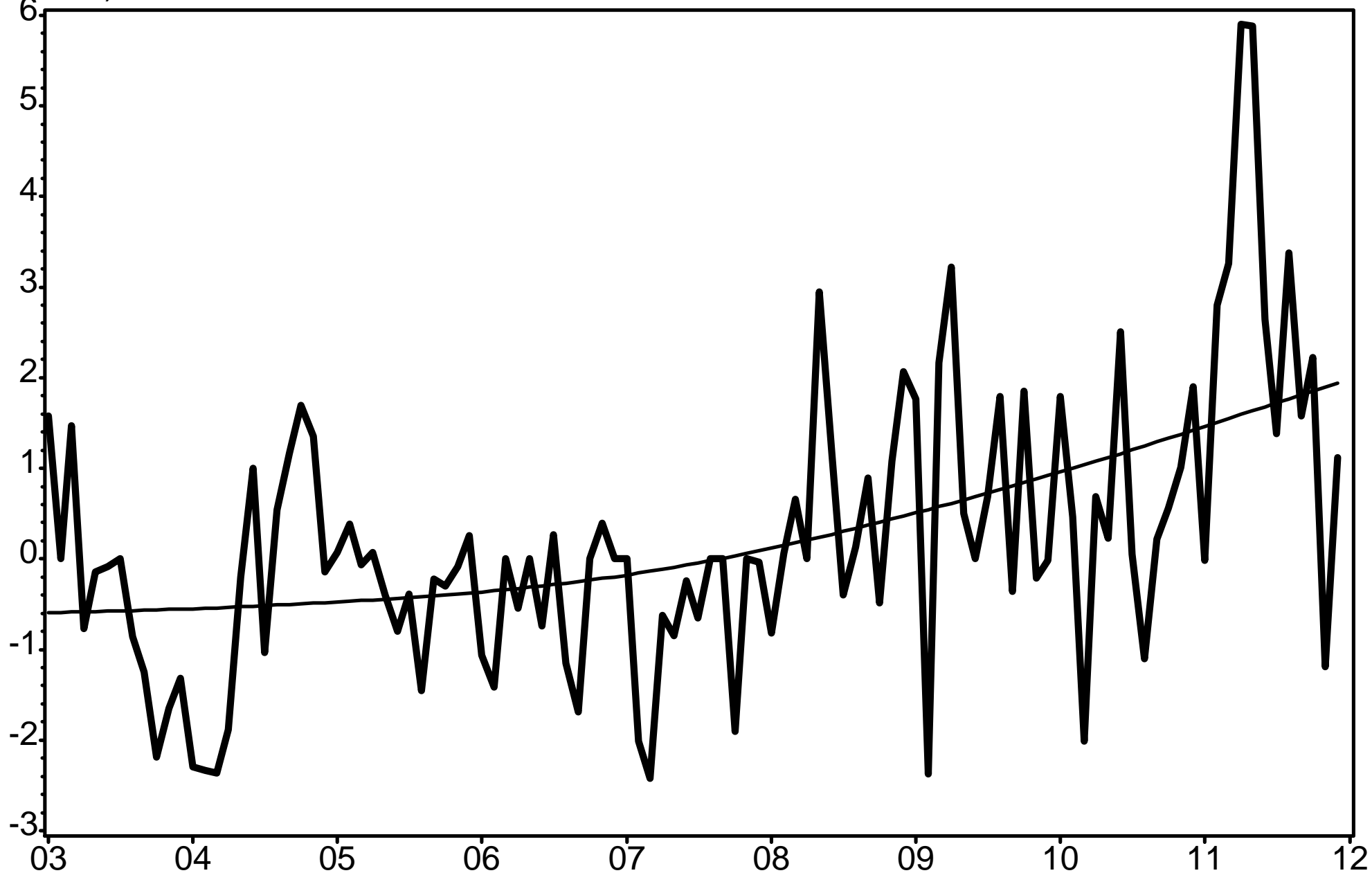
Monthly Data Time Series
for Surface Turbidity in Cape Haze
Not Adjusted for Seasonal Medians



Cape Haze Trends Appendix - Display 362

Monthly Data Time Series
for Surface Turbidity in Cape Haze
Adjusted for Seasonal Medians

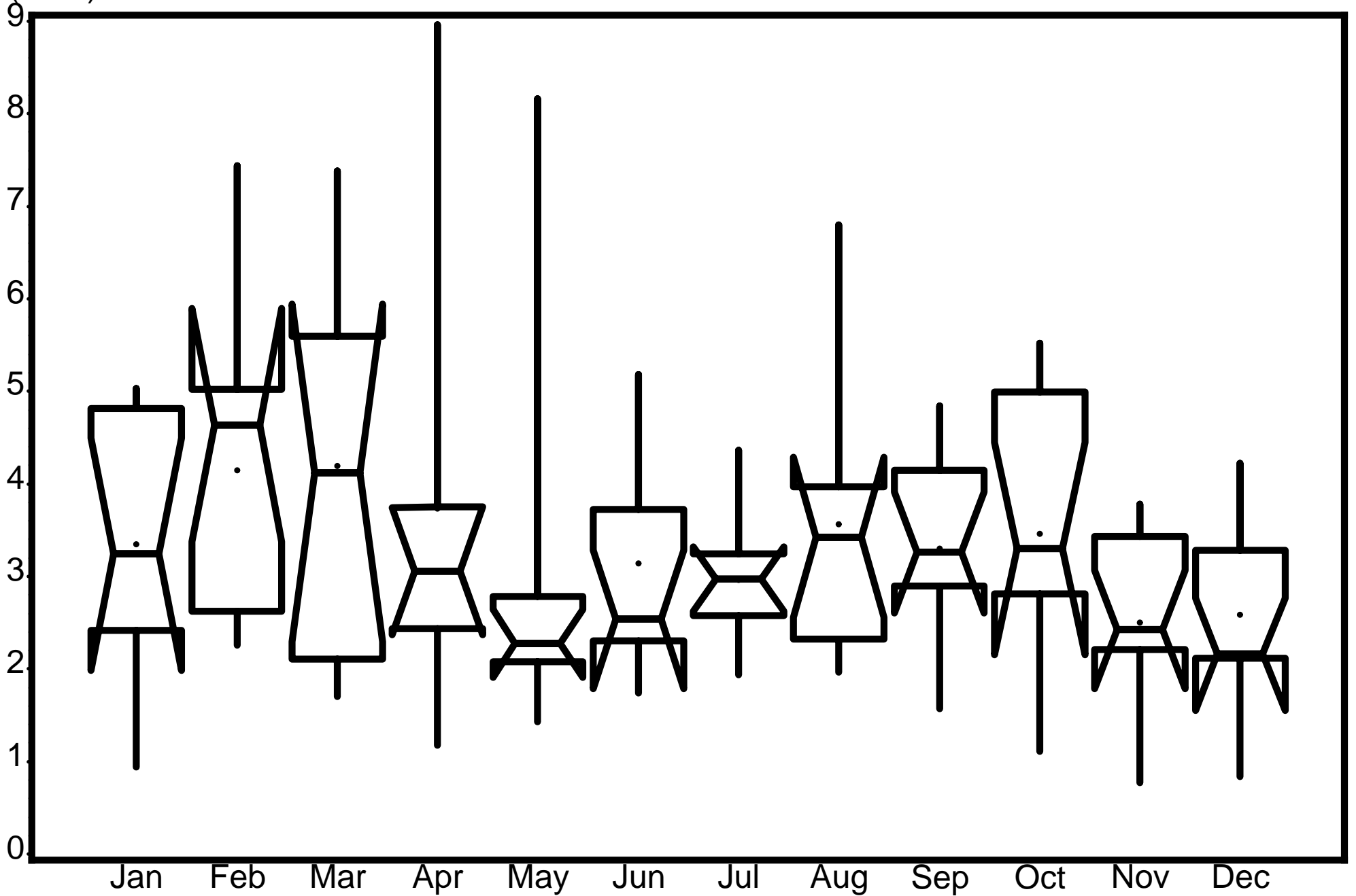
Adjusted
Turb
(NTU)



Cape Haze Trends Appendix - Display 363

Seasonal Univariate Statistics
for Surface Turbidity in Cape Haze

Turb
(NTU)



Cape Haze Trends Appendix - Display 364

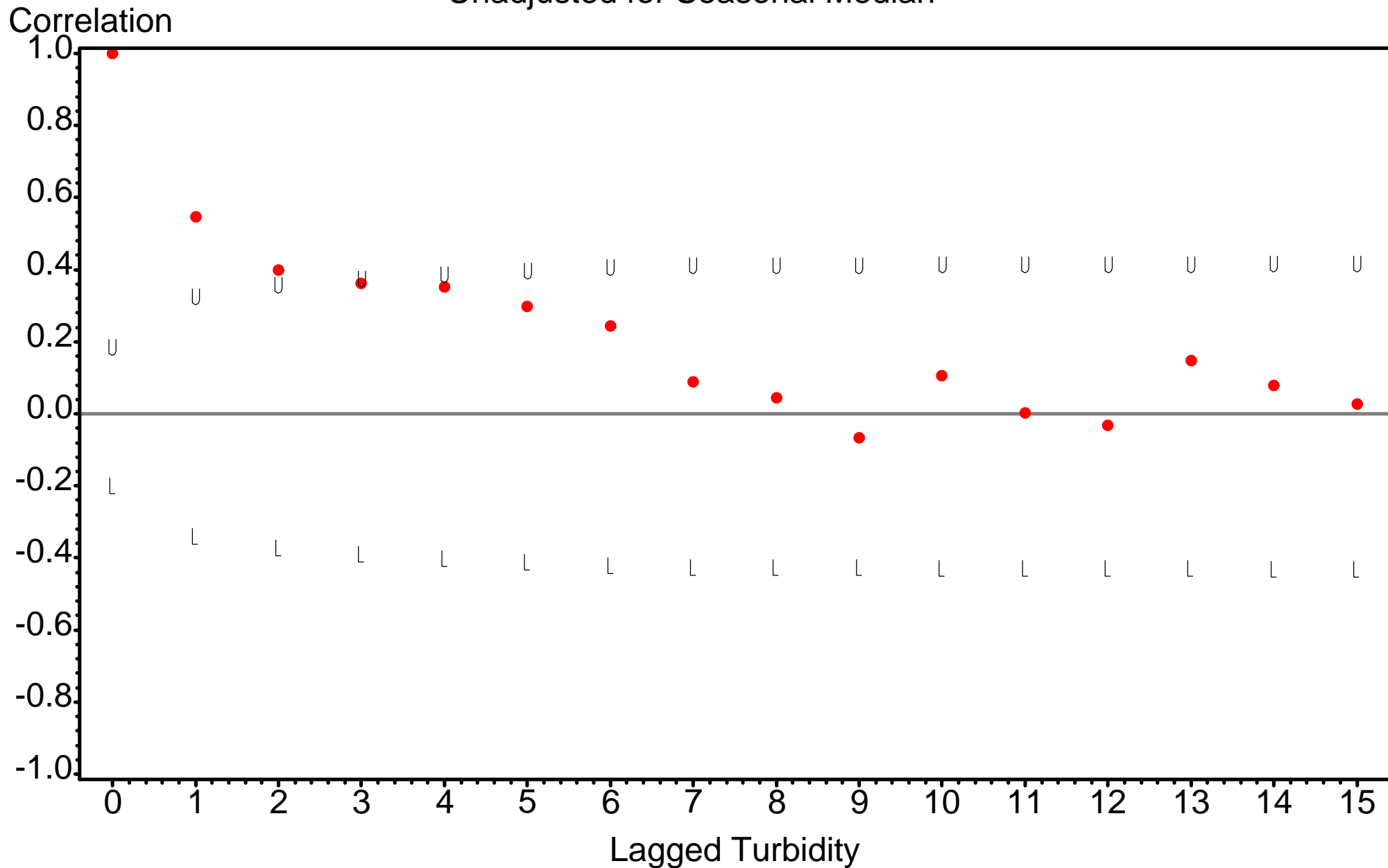
Autocorrelation Statistics for Surface Turbidity in Cape Haze

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.547	0.167	0.333	-0.333
2	0.398	0.183	0.365	-0.365
3	0.363	0.190	0.381	-0.381
4	0.351	0.197	0.393	-0.393
5	0.299	0.202	0.405	-0.405
6	0.245	0.206	0.413	-0.413
7	0.088	0.209	0.418	-0.418
8	0.044	0.209	0.419	-0.419
9	-0.067	0.210	0.419	-0.419
10	0.107	0.210	0.420	-0.420
11	0.003	0.210	0.421	-0.421
12	-0.033	0.210	0.421	-0.421
13	0.148	0.210	0.421	-0.421
14	0.078	0.211	0.423	-0.423
15	0.028	0.212	0.423	-0.423

Cape Haze Trends Appendix - Display 365

Correlogram for Surface Turbidity in Cape Haze

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Cape Haze Trends Appendix - Display 366
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Cape Haze
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.296	0	0	0.233

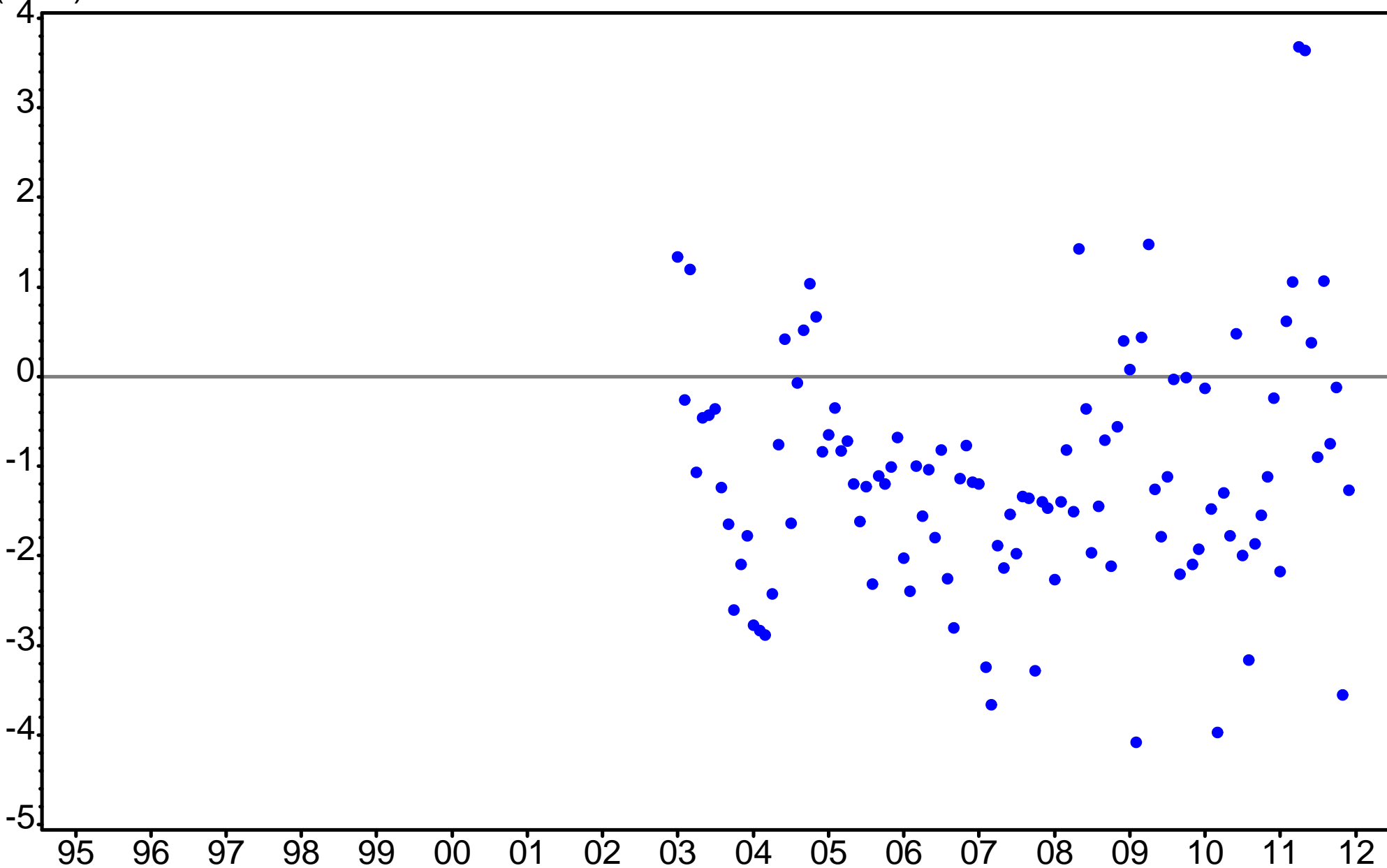
Cape Haze Trends Appendix - Display 367
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Cape Haze
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.375	.000001311	0.013665	0.2405

Cape Haze Trends Appendix - Display 368

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Cape Haze

Adjusted
(NTU)



Zero Reference Line Shown

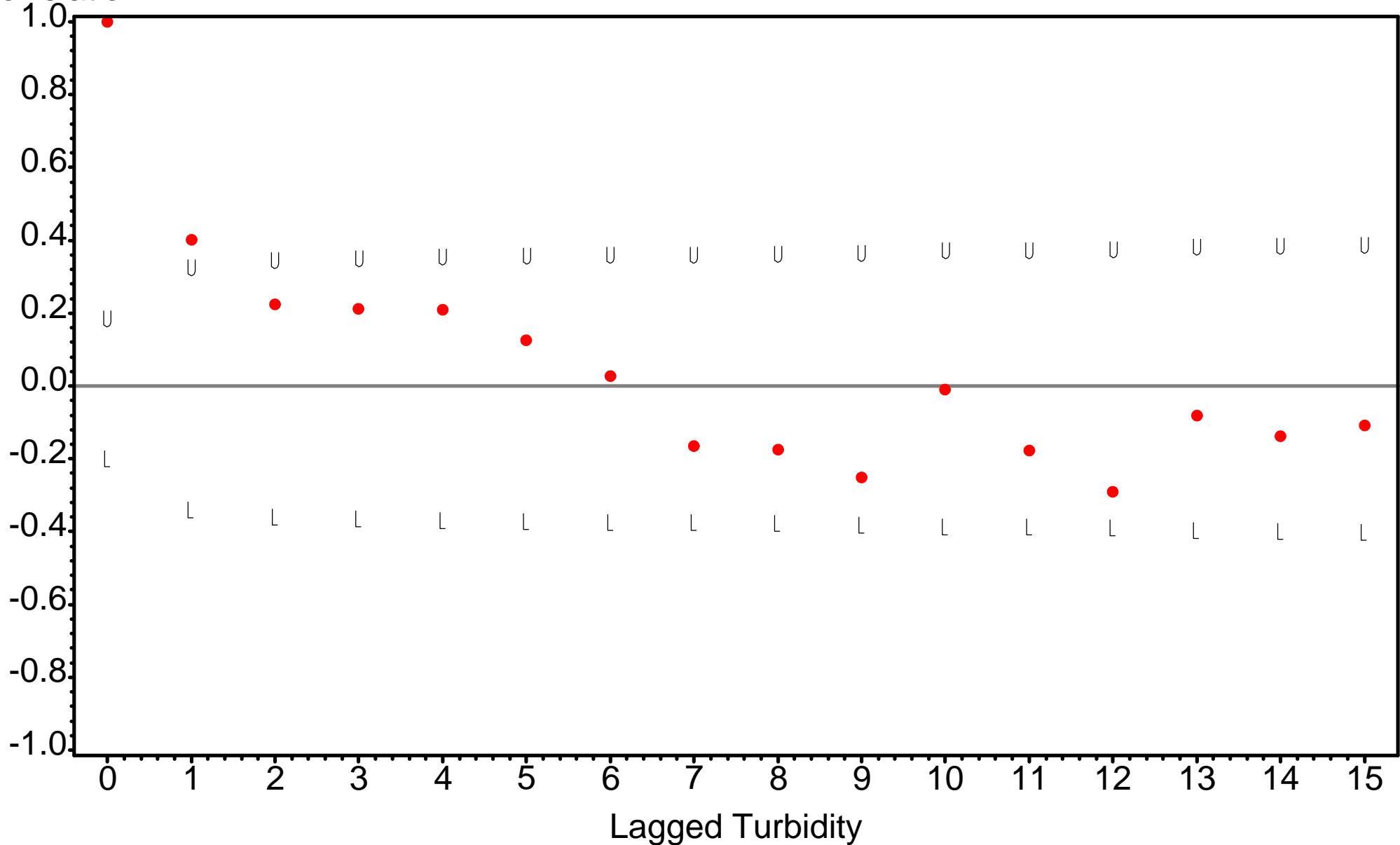
Cape Haze Trends Appendix - Display 369
Autocorrelation Statistics for Surface Turbidity in Cape Haze
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.401	0.167	0.333	-0.333
2	0.225	0.175	0.351	-0.351
3	0.213	0.178	0.356	-0.356
4	0.210	0.180	0.361	-0.361
5	0.126	0.183	0.365	-0.365
6	0.027	0.183	0.367	-0.367
7	-0.164	0.183	0.367	-0.367
8	-0.174	0.185	0.370	-0.370
9	-0.252	0.186	0.373	-0.373
10	-0.009	0.189	0.379	-0.379
11	-0.178	0.189	0.379	-0.379
12	-0.290	0.191	0.382	-0.382
13	-0.081	0.195	0.390	-0.390
14	-0.139	0.195	0.391	-0.391
15	-0.108	0.196	0.393	-0.393

Cape Haze Trends Appendix - Display 370

Correlogram for Surface Turbidity in Cape Haze
Adjusted for Seasonal Median and Detrended

Correlation

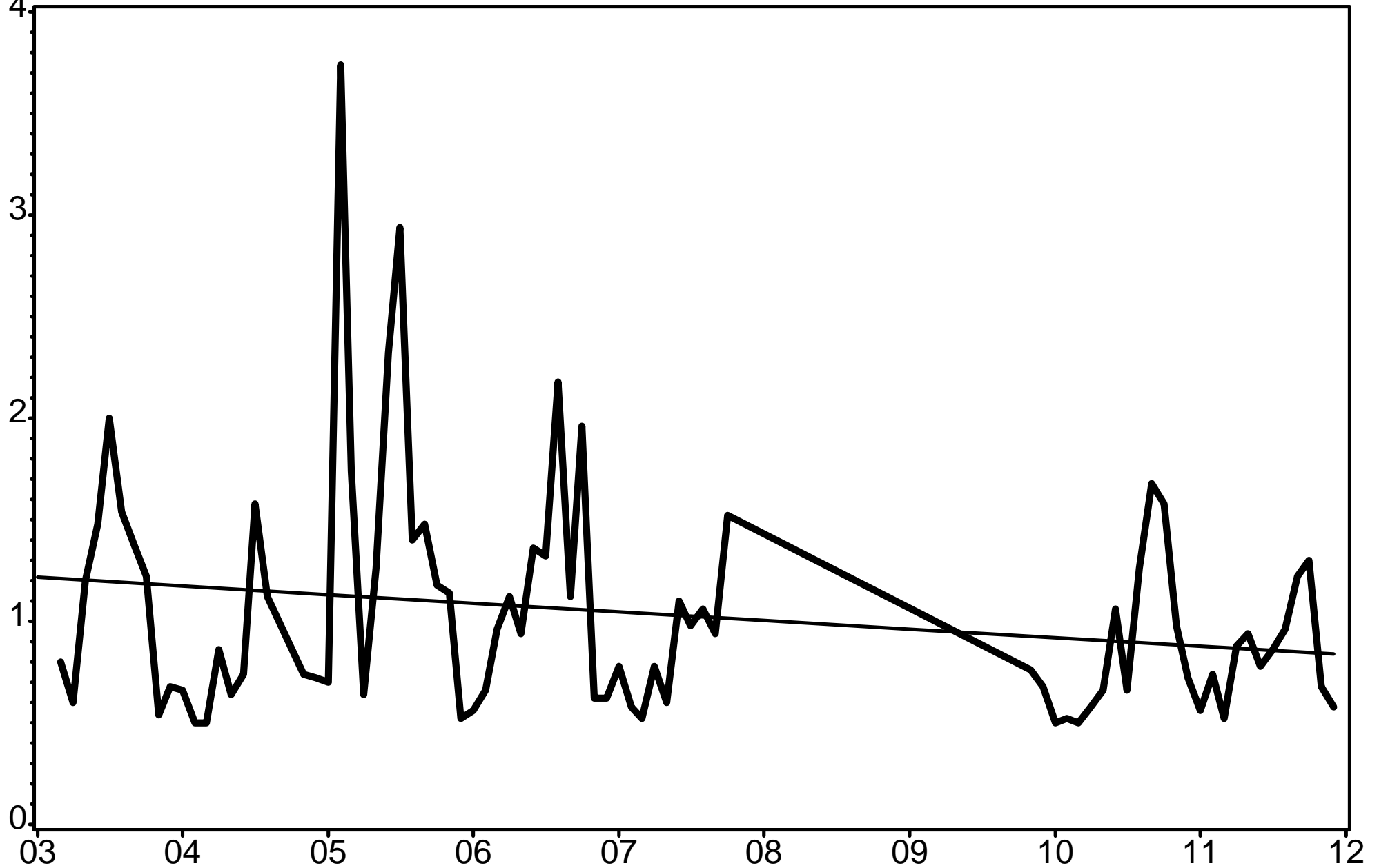


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 371

Monthly Data Time Series
for Surface BOD 5-Day in Dona and Roberts Bay
Not Adjusted for Seasonal Medians

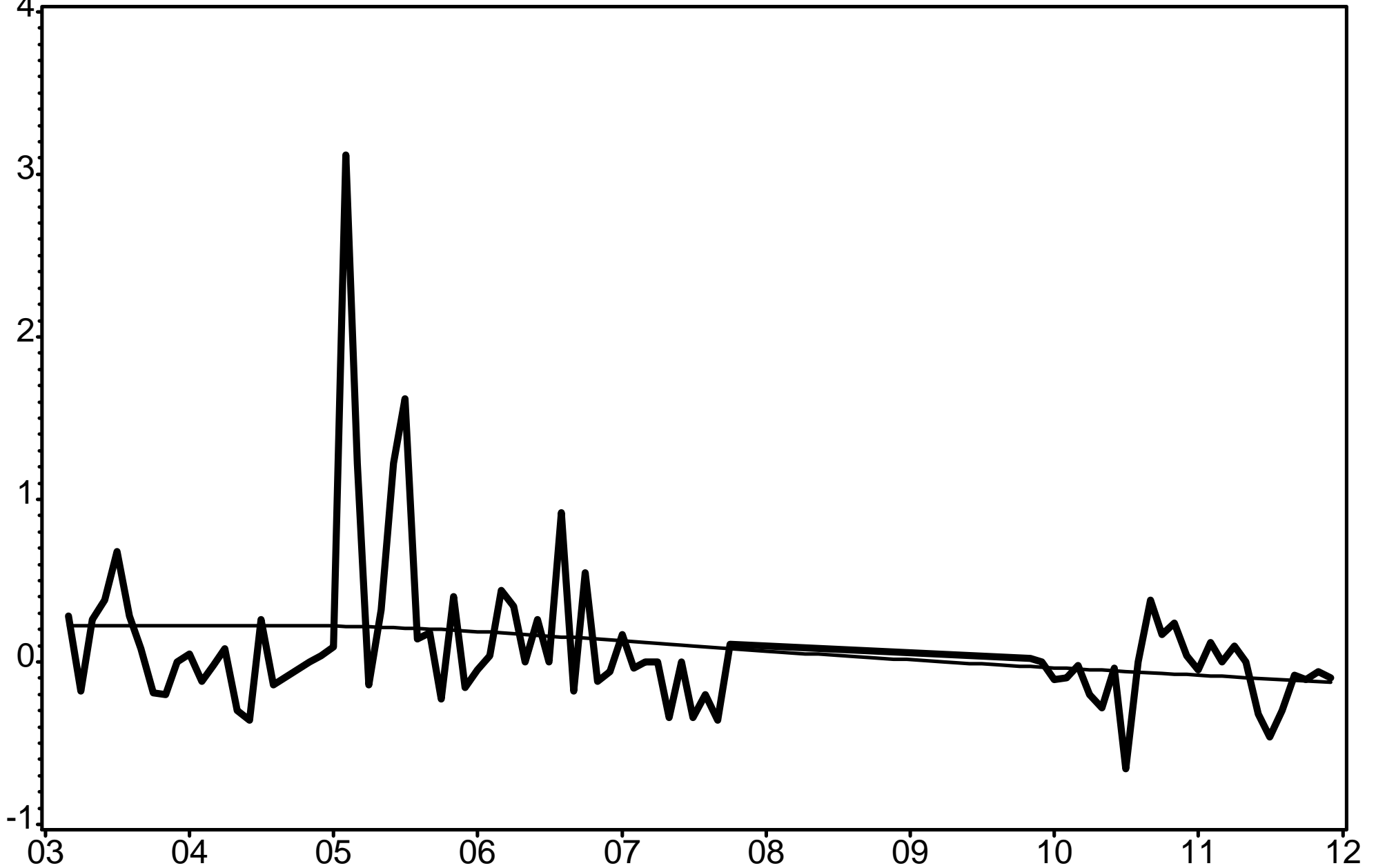
BOD_mgl
(mg/l)



Dona and Roberts Bay Trends Appendix - Display 372

Monthly Data Time Series
for Surface BOD 5-Day in Dona and Roberts Bay
Adjusted for Seasonal Medians

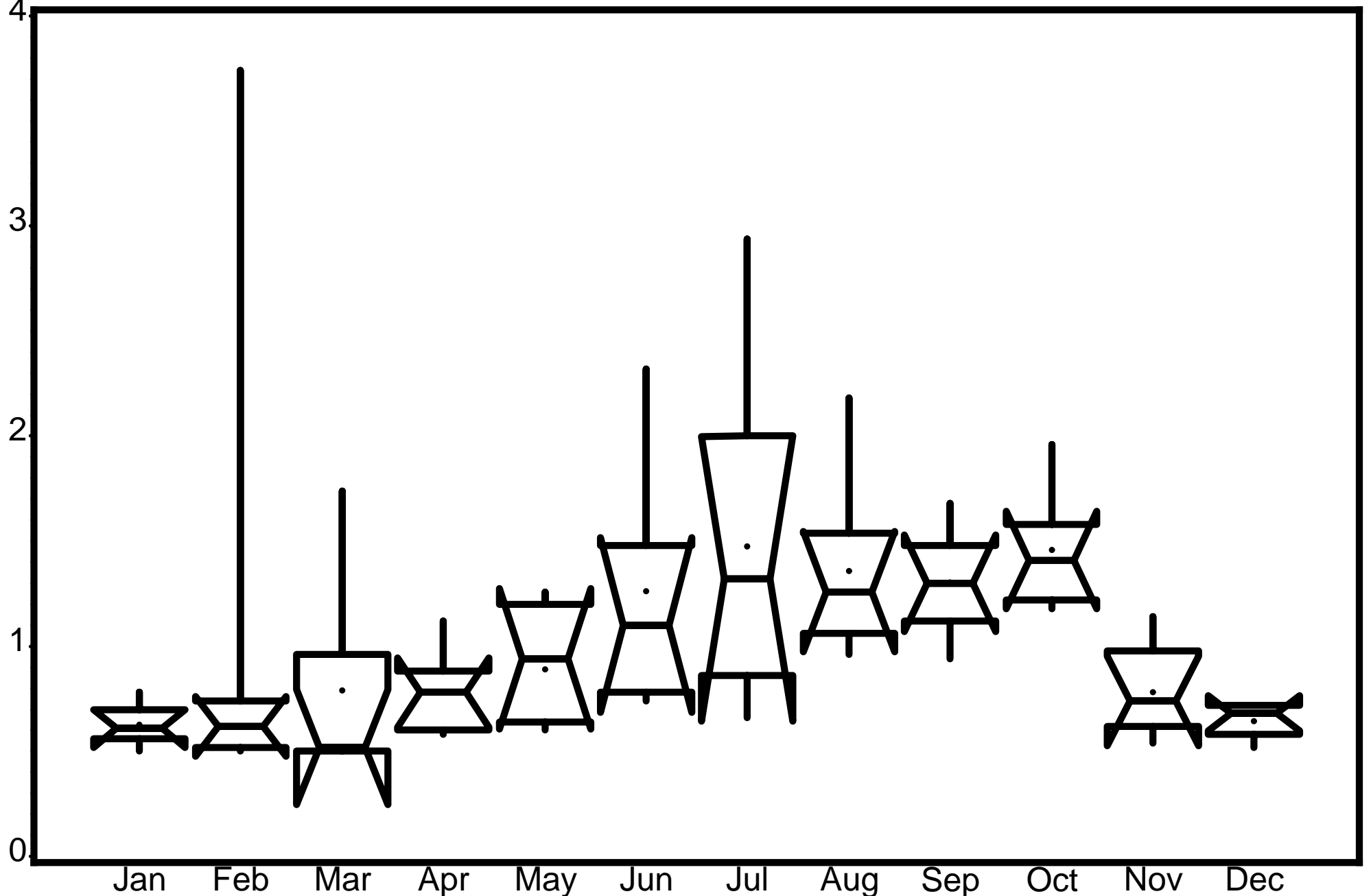
Adjusted
BOD_mgl
(mg/l)



Dona and Roberts Bay Trends Appendix - Display 373

Seasonal Univariate Statistics
for Surface BOD 5-Day in Dona and Roberts Bay

BOD_mgl
(mg/l)

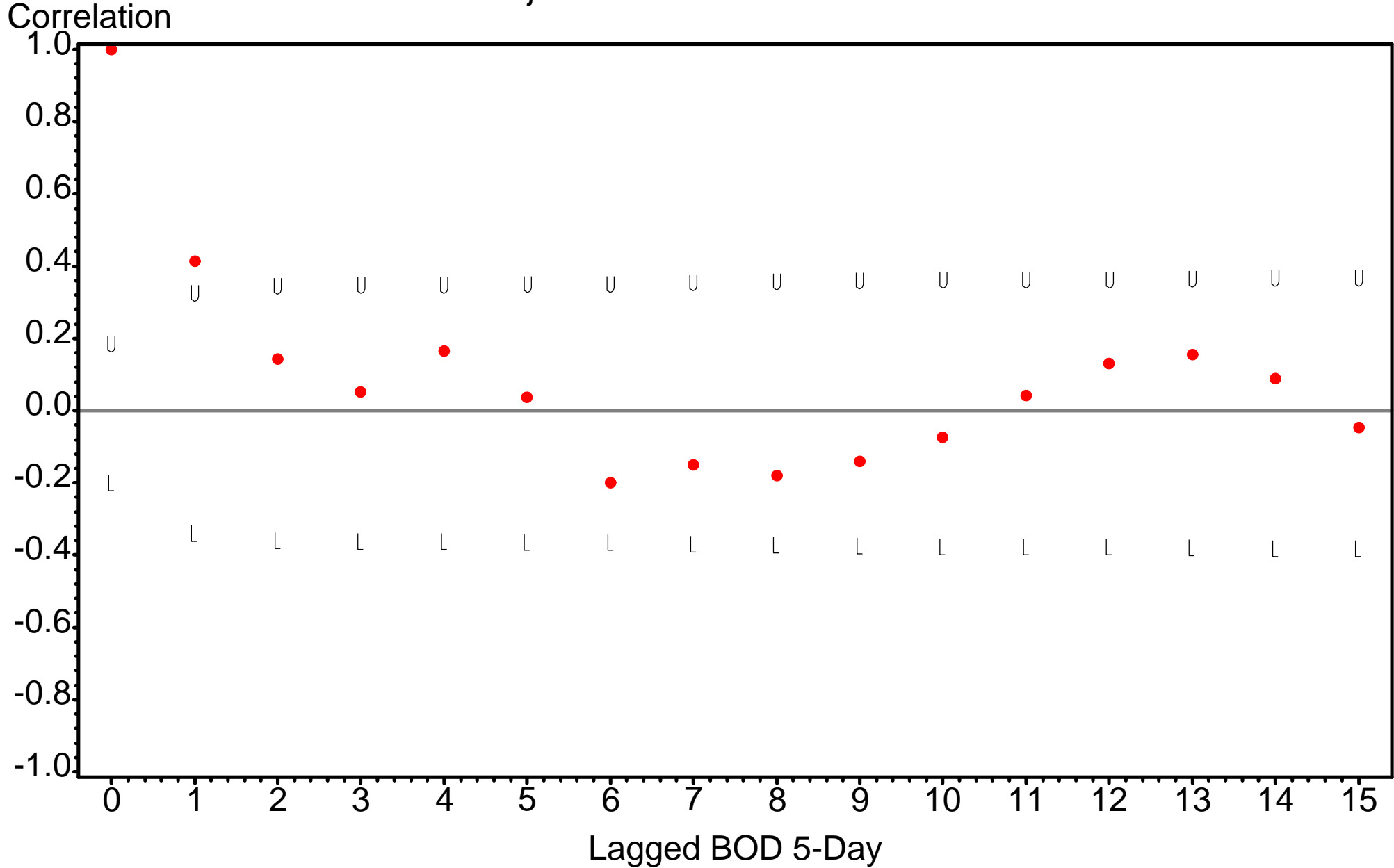


Dona and Roberts Bay Trends Appendix - Display 374
Autocorrelation Statistics for Surface BOD 5-Day in Dona and Roberts Bay

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.413	0.167	0.333	-0.333
2	0.144	0.176	0.352	-0.352
3	0.051	0.177	0.354	-0.354
4	0.166	0.177	0.354	-0.354
5	0.037	0.179	0.357	-0.357
6	-0.200	0.179	0.357	-0.357
7	-0.150	0.181	0.361	-0.361
8	-0.179	0.182	0.364	-0.364
9	-0.140	0.183	0.367	-0.367
10	-0.075	0.184	0.369	-0.369
11	0.041	0.185	0.369	-0.369
12	0.131	0.185	0.370	-0.370
13	0.154	0.186	0.371	-0.371
14	0.088	0.187	0.374	-0.374
15	-0.046	0.187	0.374	-0.374

Dona and Roberts Bay Trends Appendix - Display 375

Correlogram for Surface BOD 5-Day in Dona and Roberts Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 376
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.105	0.168	0.168	-0.02

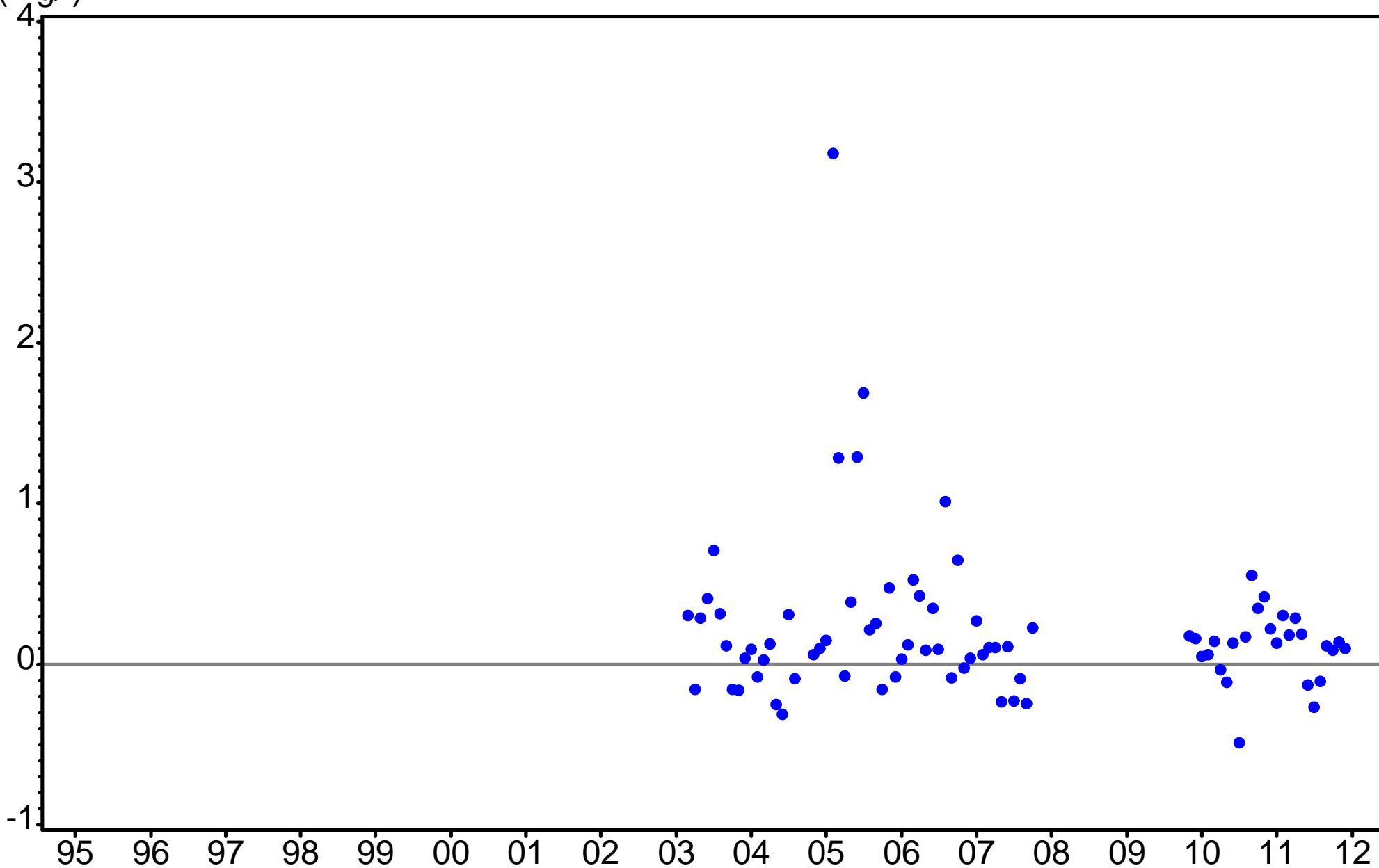
Dona and Roberts Bay Trends Appendix - Display 377
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.15790	0.10345	0.20004	-0.02

Dona and Roberts Bay Trends Appendix - Display 378

Time Series Plot of Surface BOD 5-Day Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(mg/l)



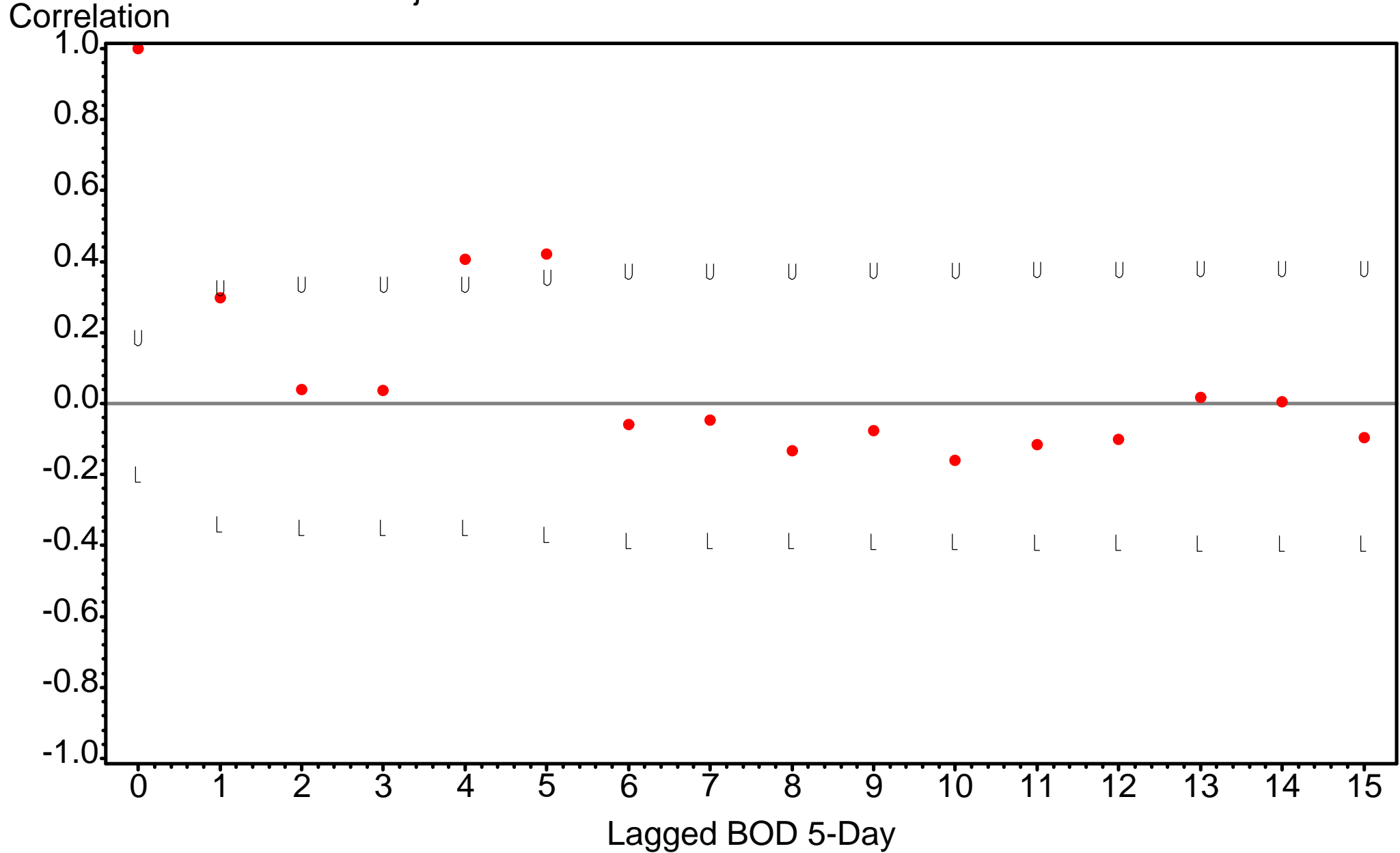
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 379
Autocorrelation Statistics for Surface BOD 5-Day in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.298	0.167	0.333	-0.333
2	0.040	0.172	0.343	-0.343
3	0.036	0.172	0.343	-0.343
4	0.406	0.172	0.343	-0.343
5	0.421	0.180	0.361	-0.361
6	-0.059	0.189	0.378	-0.378
7	-0.046	0.189	0.379	-0.379
8	-0.133	0.190	0.379	-0.379
9	-0.076	0.190	0.381	-0.381
10	-0.160	0.191	0.381	-0.381
11	-0.116	0.192	0.384	-0.384
12	-0.100	0.193	0.385	-0.385
13	0.017	0.193	0.386	-0.386
14	0.004	0.193	0.386	-0.386
15	-0.096	0.193	0.386	-0.386

Dona and Roberts Bay Trends Appendix - Display 380

Correlogram for Surface BOD 5-Day in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

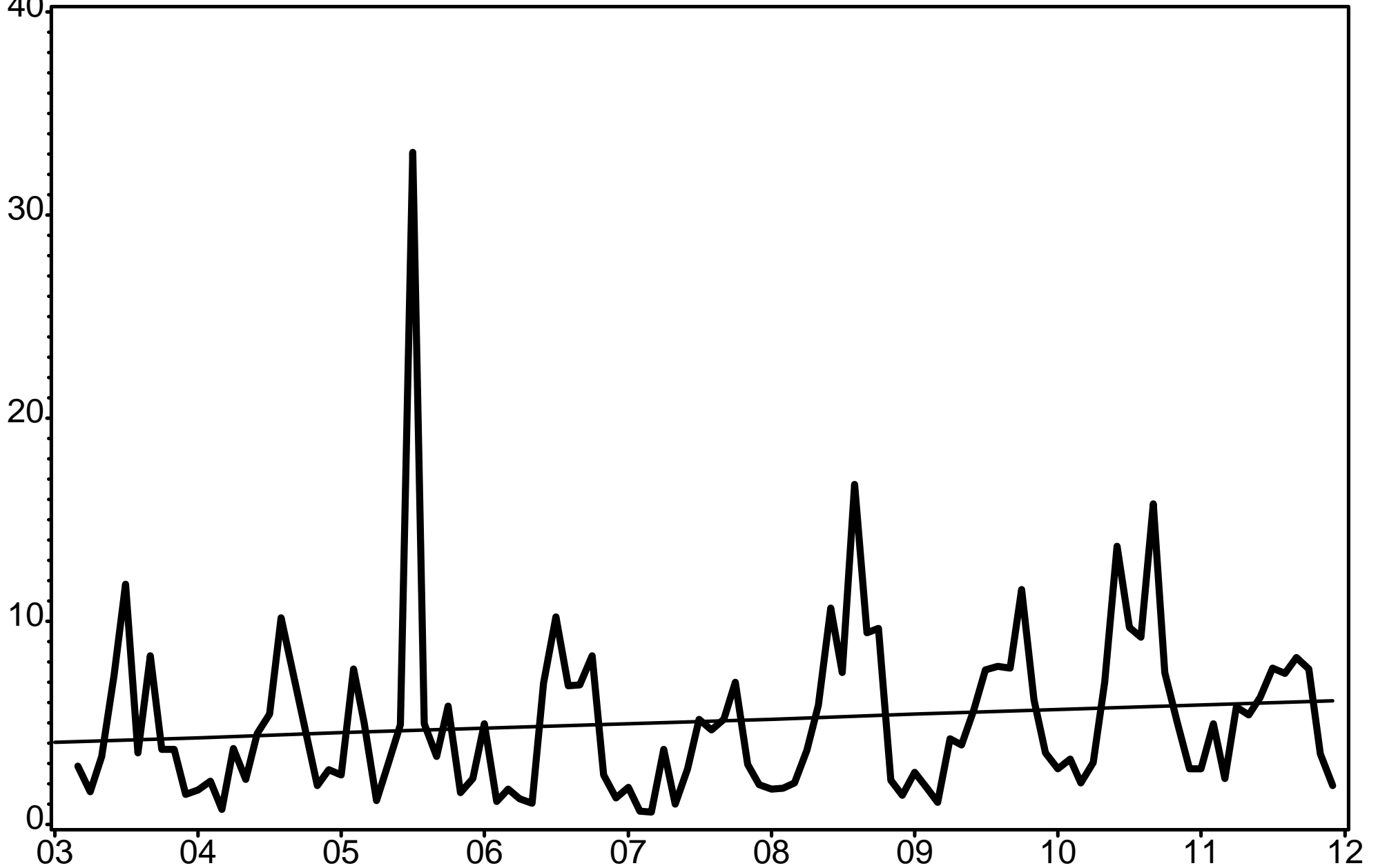
Dona and Roberts Bay Trends Appendix - Display 381

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



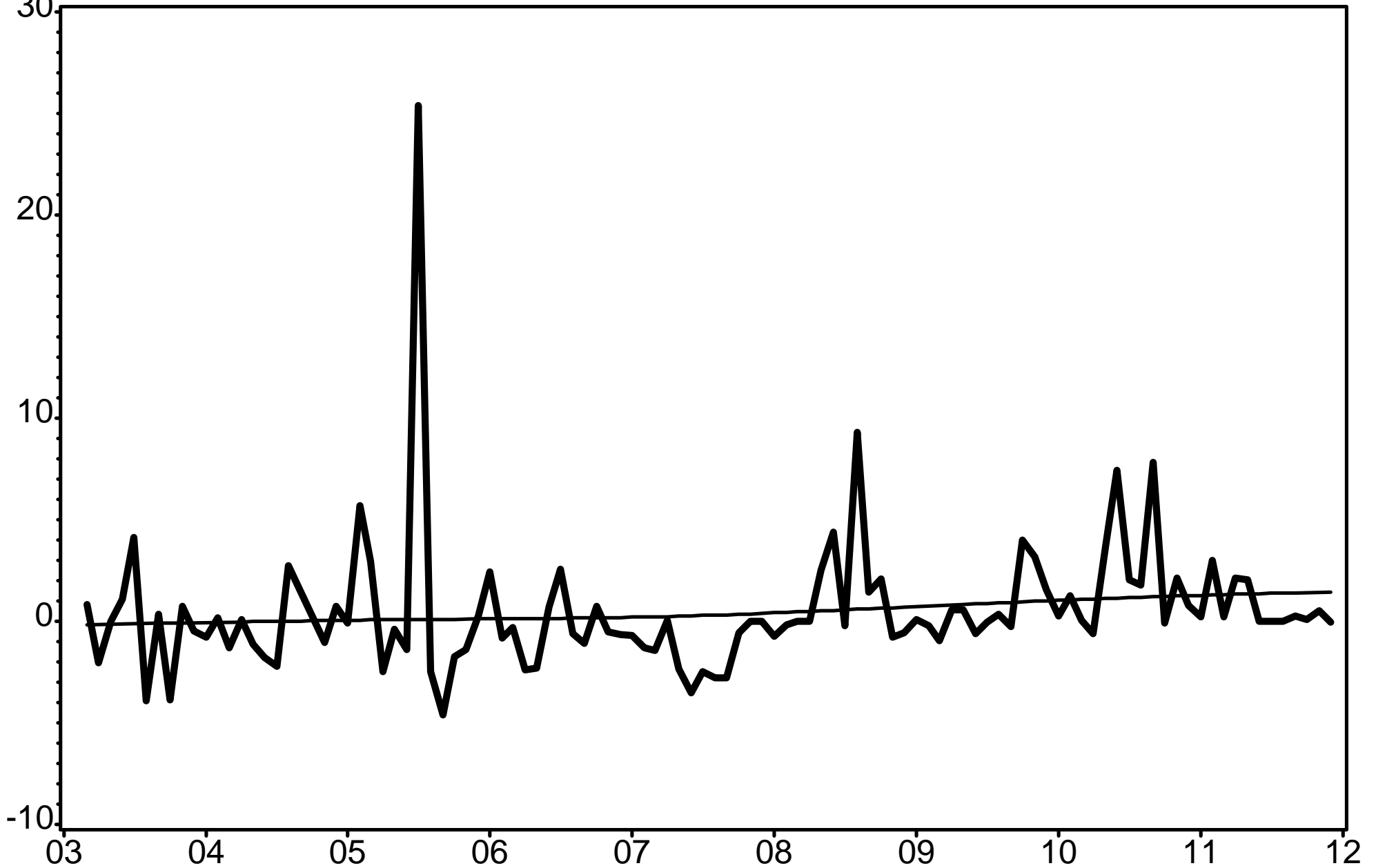
Dona and Roberts Bay Trends Appendix - Display 382

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

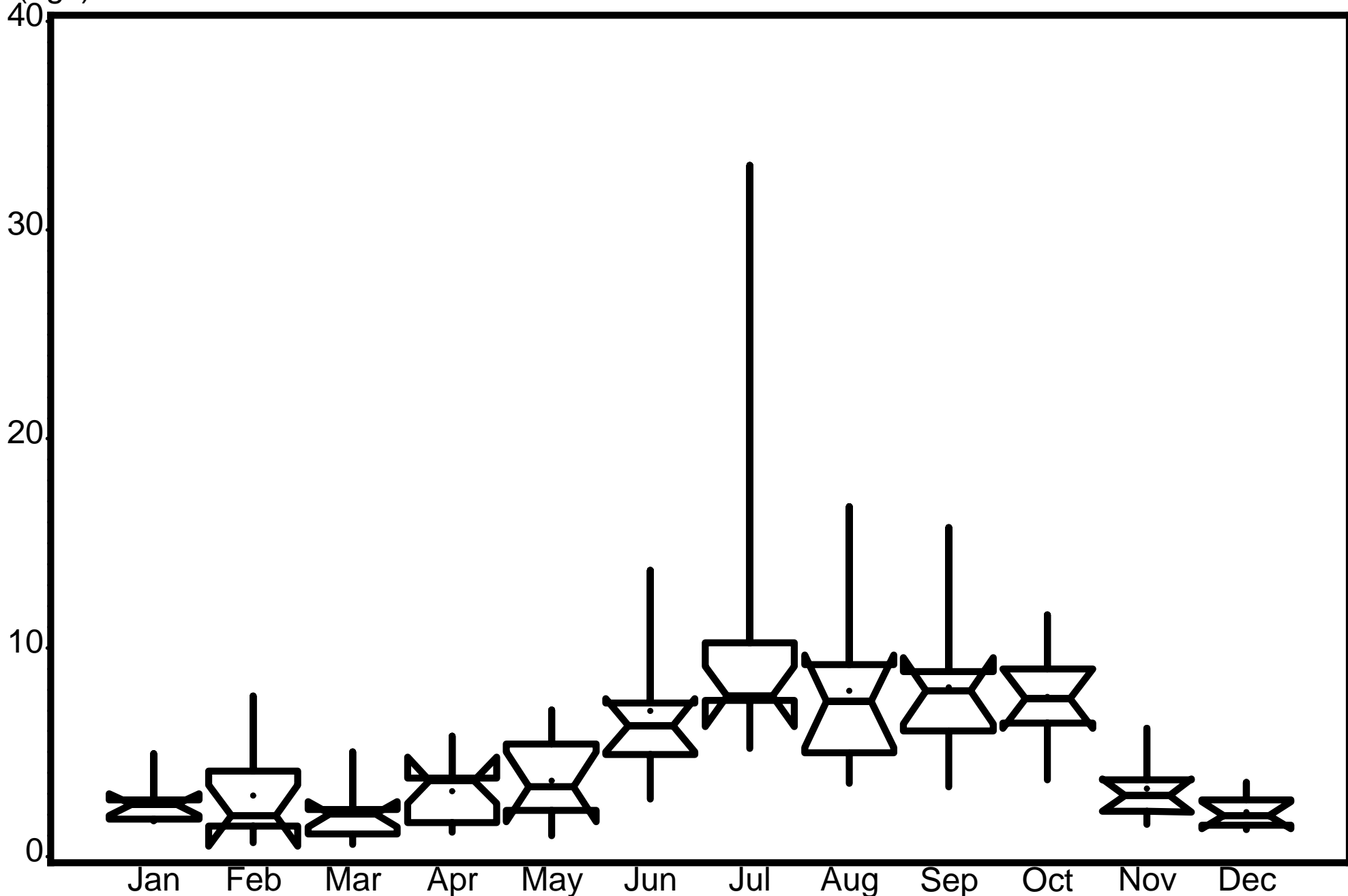


Dona and Roberts Bay Trends Appendix - Display 383

Seasonal Univariate Statistics

CHLAC_ugl for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay

(ug/l)



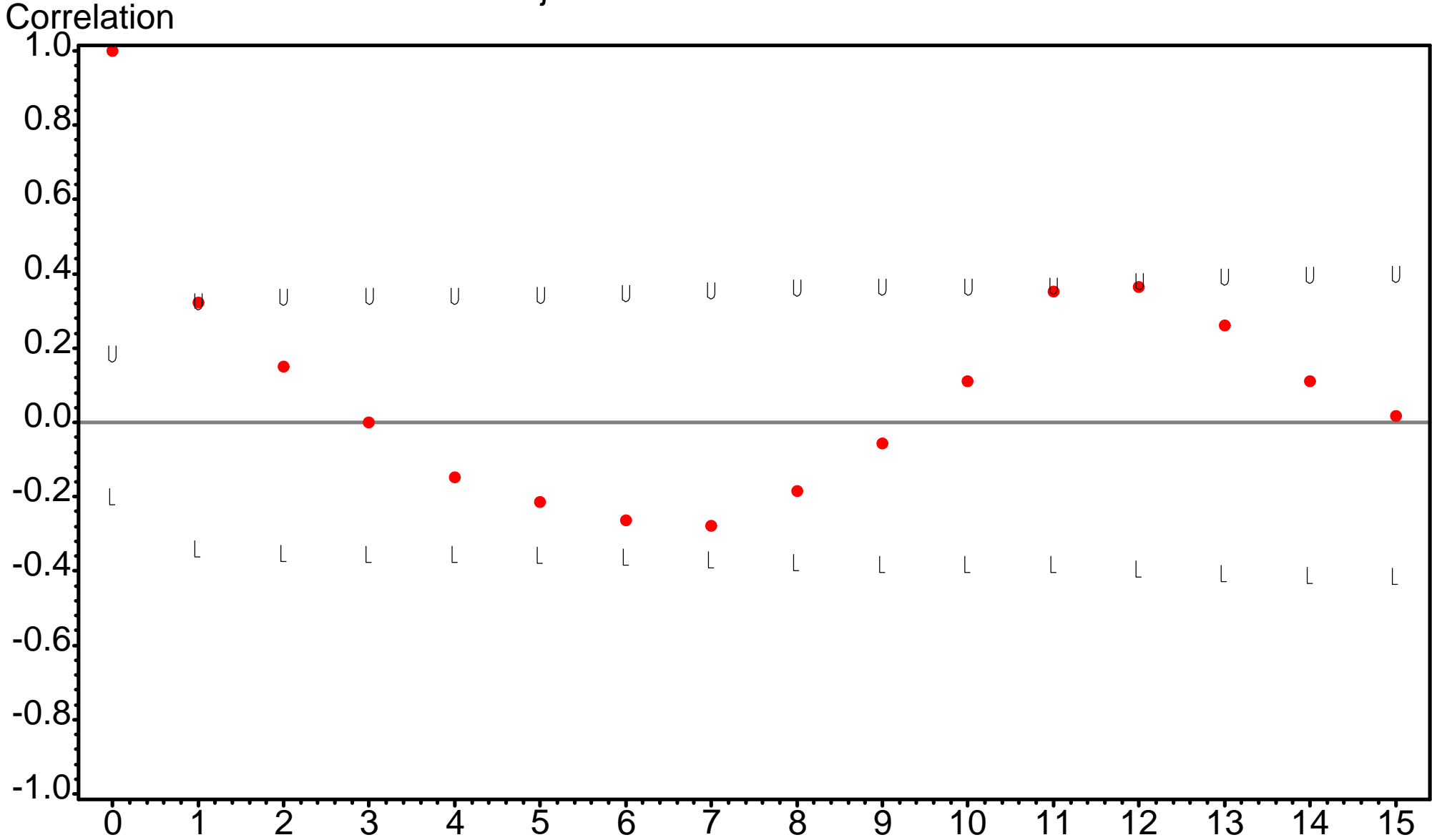
Dona and Roberts Bay Trends Appendix - Display 384

Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.323	0.167	0.333	-0.333
2	0.149	0.172	0.345	-0.345
3	0.001	0.174	0.347	-0.347
4	-0.148	0.174	0.347	-0.347
5	-0.215	0.175	0.349	-0.349
6	-0.264	0.177	0.354	-0.354
7	-0.279	0.181	0.362	-0.362
8	-0.185	0.185	0.369	-0.369
9	-0.056	0.186	0.373	-0.373
10	0.112	0.187	0.373	-0.373
11	0.353	0.187	0.374	-0.374
12	0.364	0.193	0.387	-0.387
13	0.260	0.200	0.399	-0.399
14	0.111	0.203	0.405	-0.405
15	0.018	0.203	0.406	-0.406

Dona and Roberts Bay Trends Appendix - Display 385

Correlogram for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 386
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay
Unadjusted for Seasonal Medians

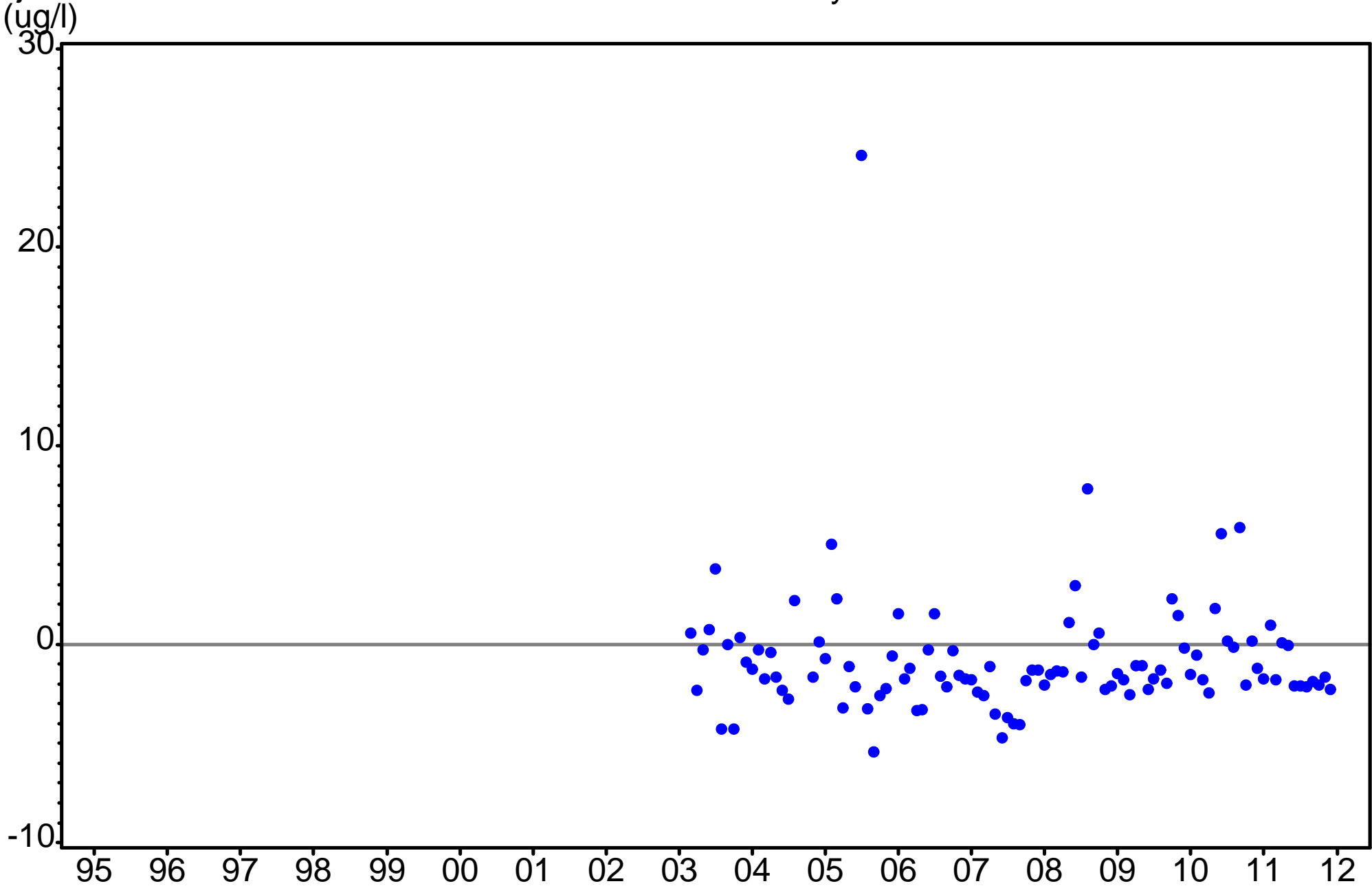
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.163	0.014	0.014	0.261

Dona and Roberts Bay Trends Appendix - Display 387
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.24	.00262809	0.071785	0.22241

Dona and Roberts Bay Trends Appendix - Display 388

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted
(ug/l)
Dona and Roberts Bay



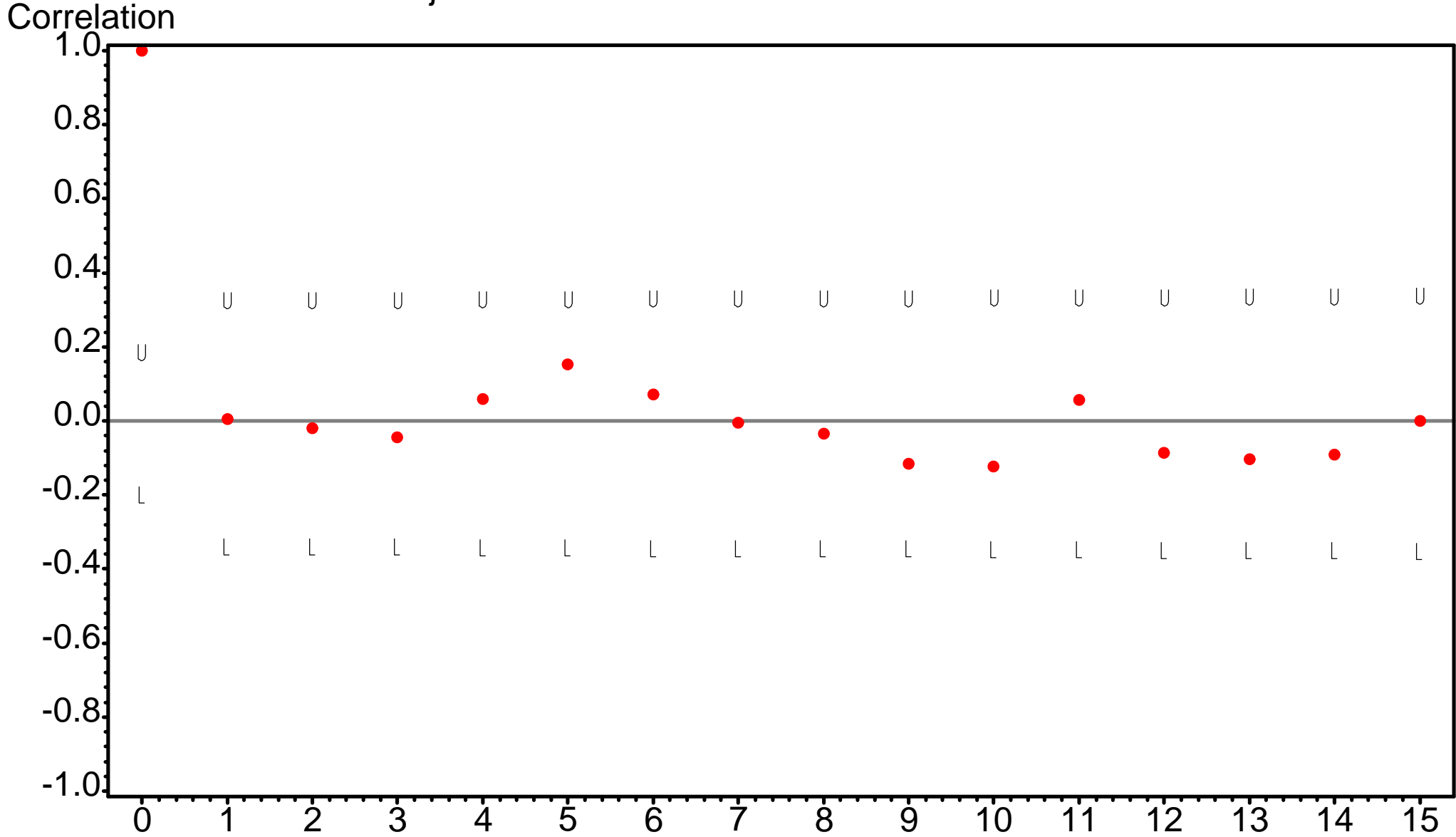
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 389
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.006	0.167	0.333	-0.333
2	-0.020	0.167	0.333	-0.333
3	-0.045	0.167	0.333	-0.333
4	0.058	0.167	0.334	-0.334
5	0.152	0.167	0.334	-0.334
6	0.072	0.168	0.337	-0.337
7	-0.004	0.169	0.337	-0.337
8	-0.035	0.169	0.337	-0.337
9	-0.116	0.169	0.337	-0.337
10	-0.123	0.169	0.339	-0.339
11	0.056	0.170	0.340	-0.340
12	-0.086	0.170	0.341	-0.341
13	-0.103	0.171	0.342	-0.342
14	-0.090	0.171	0.343	-0.343
15	0.001	0.172	0.344	-0.344

Dona and Roberts Bay Trends Appendix - Display 390

Correlogram for Surface Chlorophyll-a (Corrected) in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



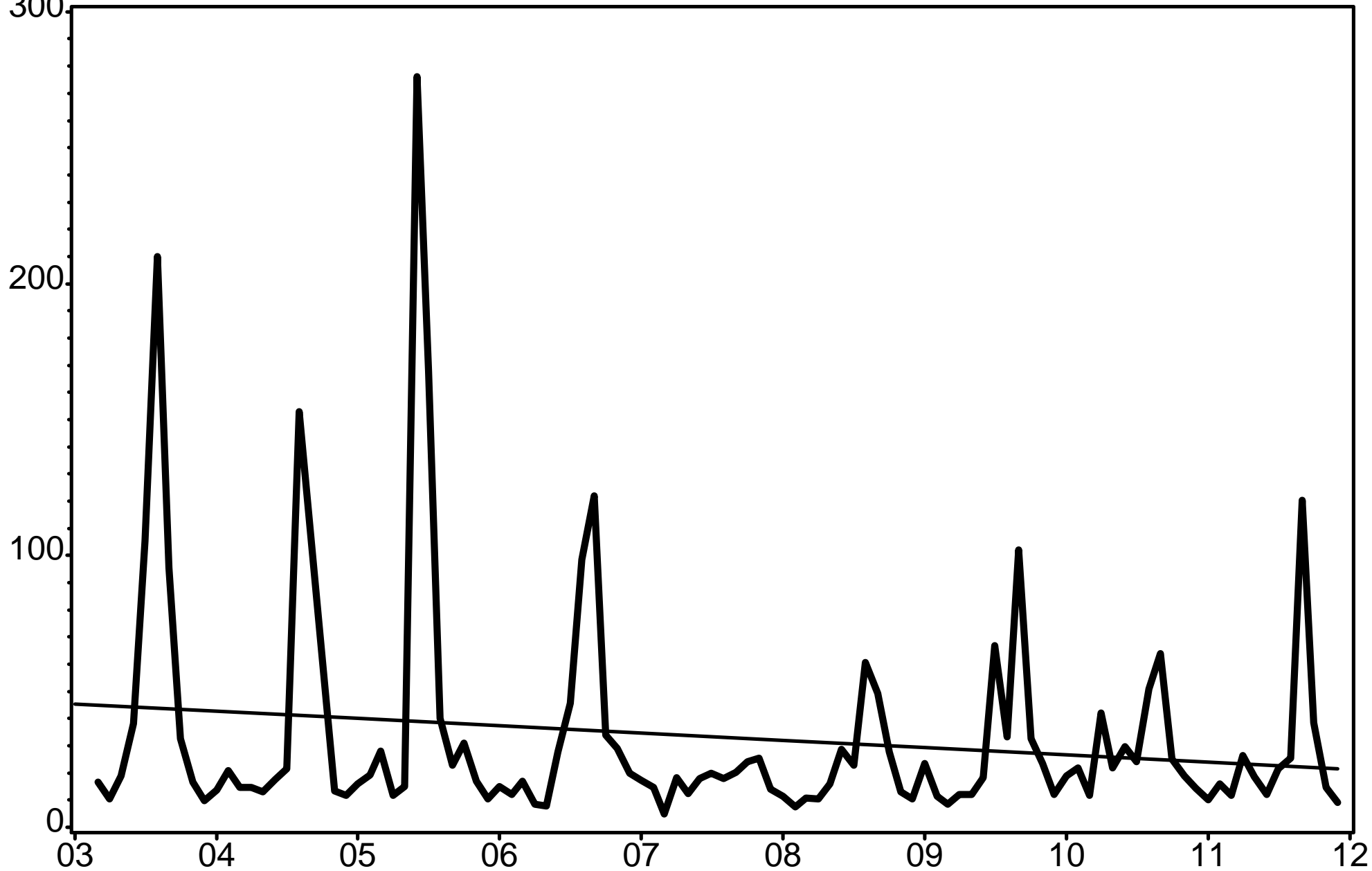
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 391

Monthly Data Time Series
for Surface Color in Dona and Roberts Bay
Not Adjusted for Seasonal Medians

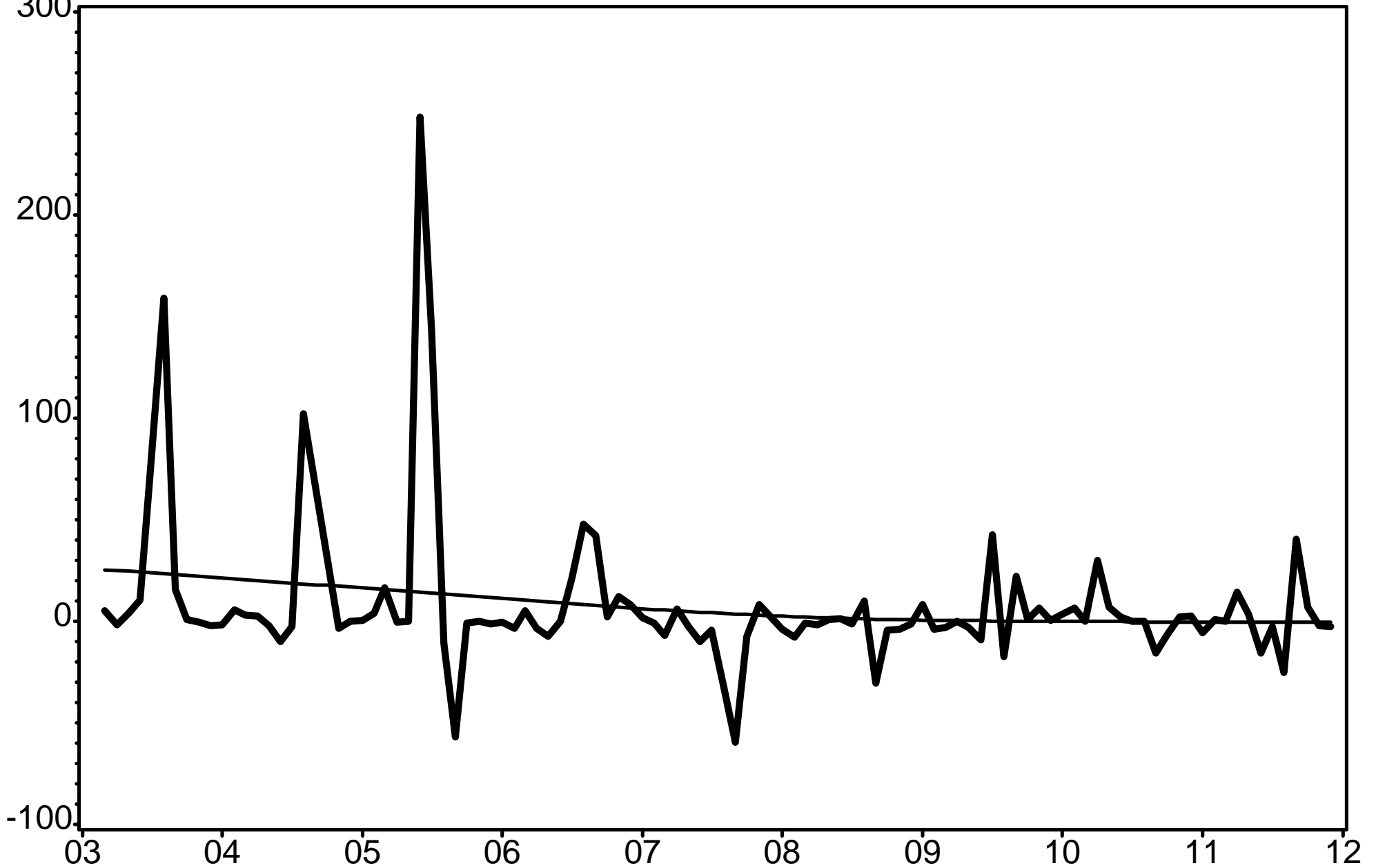
COLOR
(PCU)



Dona and Roberts Bay Trends Appendix - Display 392

Monthly Data Time Series
for Surface Color in Dona and Roberts Bay
Adjusted for Seasonal Medians

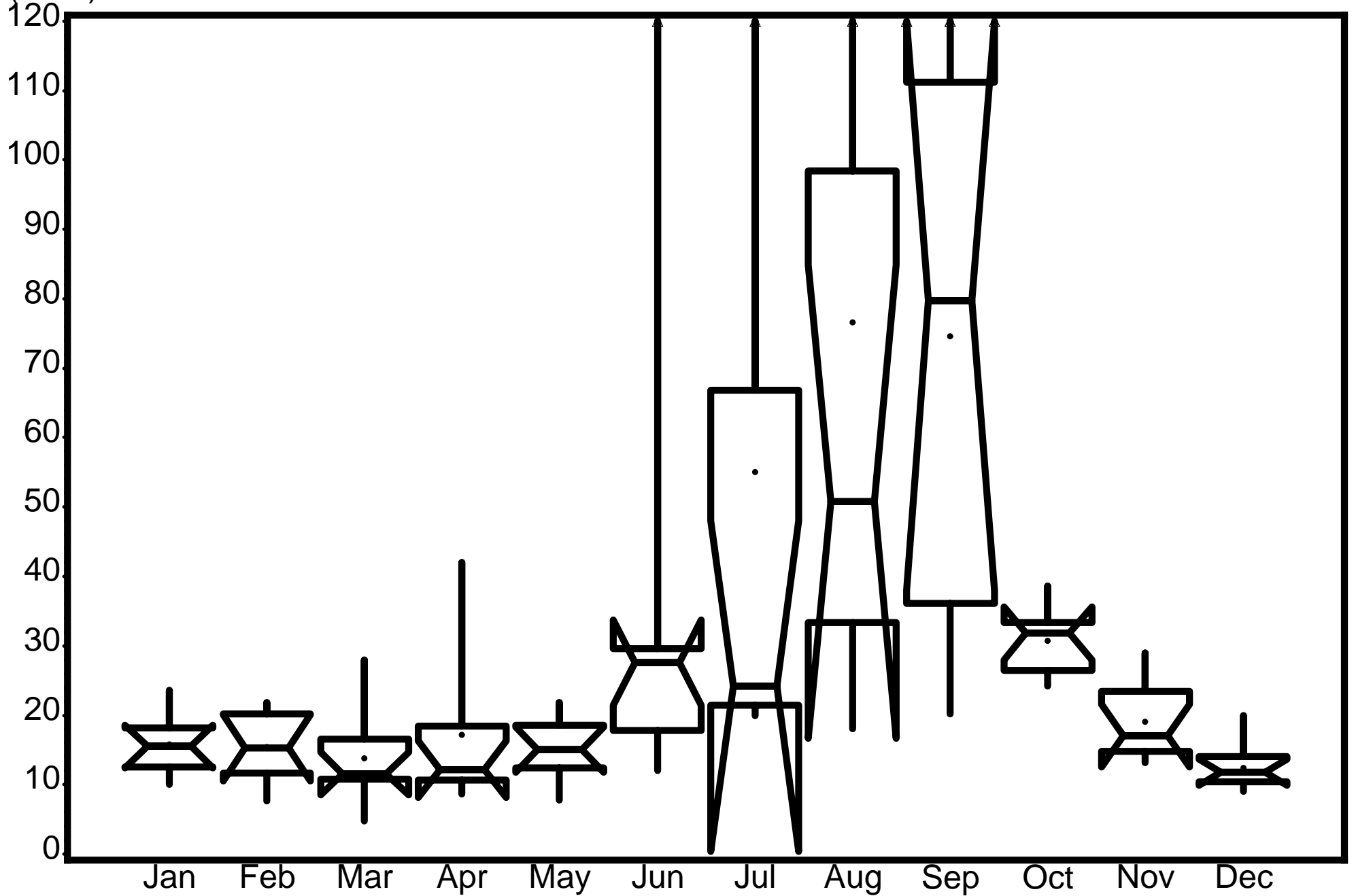
Adjusted
COLOR
(PCU)



Dona and Roberts Bay Trends Appendix - Display 393

Seasonal Univariate Statistics for Surface Color in Dona and Roberts Bay

COLOR
(PCU)

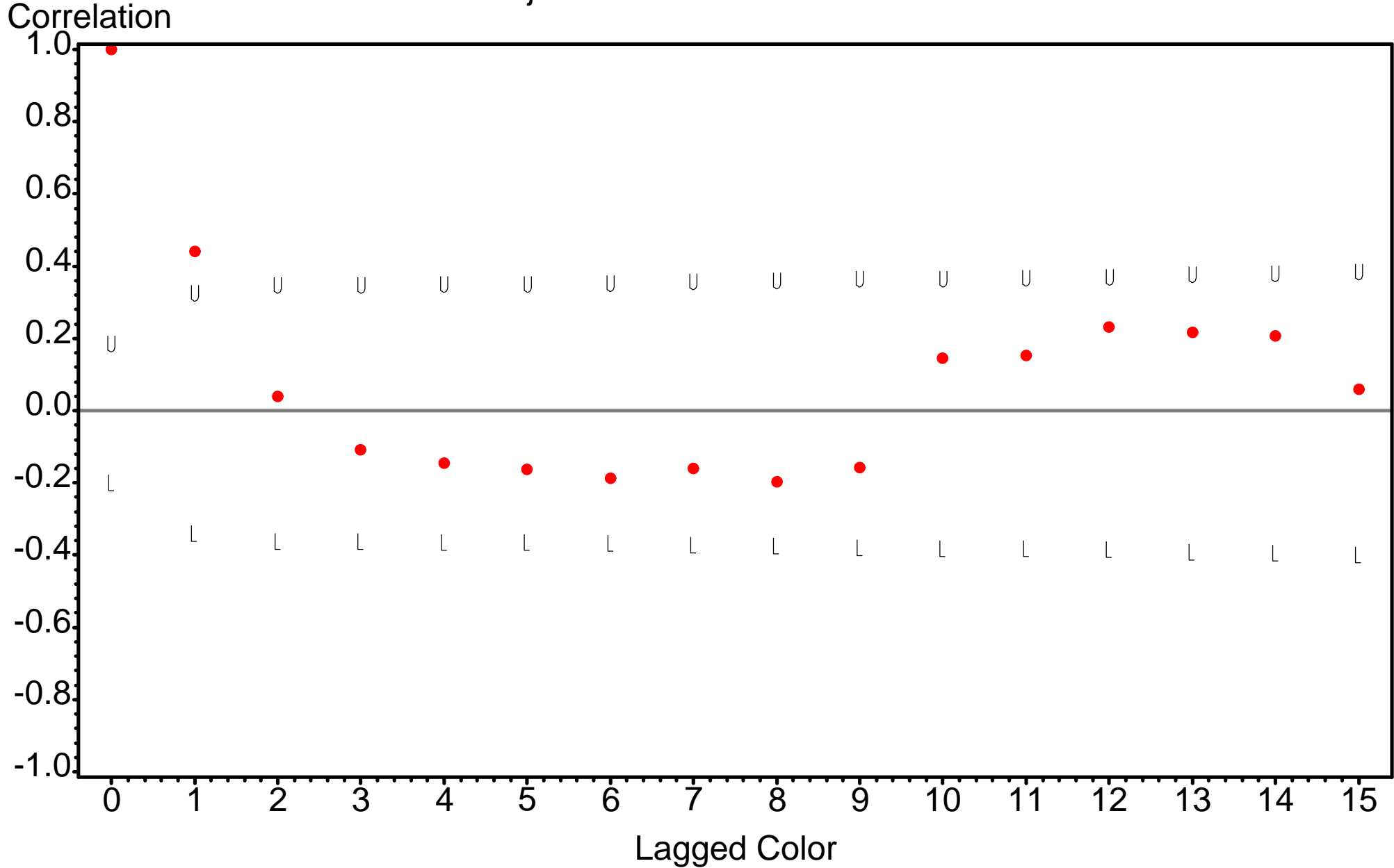


Dona and Roberts Bay Trends Appendix - Display 394
Autocorrelation Statistics for Surface Color in Dona and Roberts Bay

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.440	0.167	0.333	-0.333
2	0.040	0.177	0.354	-0.354
3	-0.108	0.177	0.354	-0.354
4	-0.144	0.178	0.356	-0.356
5	-0.163	0.179	0.358	-0.358
6	-0.187	0.180	0.360	-0.360
7	-0.160	0.182	0.364	-0.364
8	-0.198	0.183	0.367	-0.367
9	-0.157	0.185	0.371	-0.371
10	0.145	0.187	0.373	-0.373
11	0.153	0.188	0.375	-0.375
12	0.231	0.189	0.377	-0.377
13	0.217	0.191	0.383	-0.383
14	0.207	0.194	0.387	-0.387
15	0.058	0.196	0.391	-0.391

Dona and Roberts Bay Trends Appendix - Display 395

Correlogram for Surface Color in Dona and Roberts Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 396
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.001	0.996	0.996	0

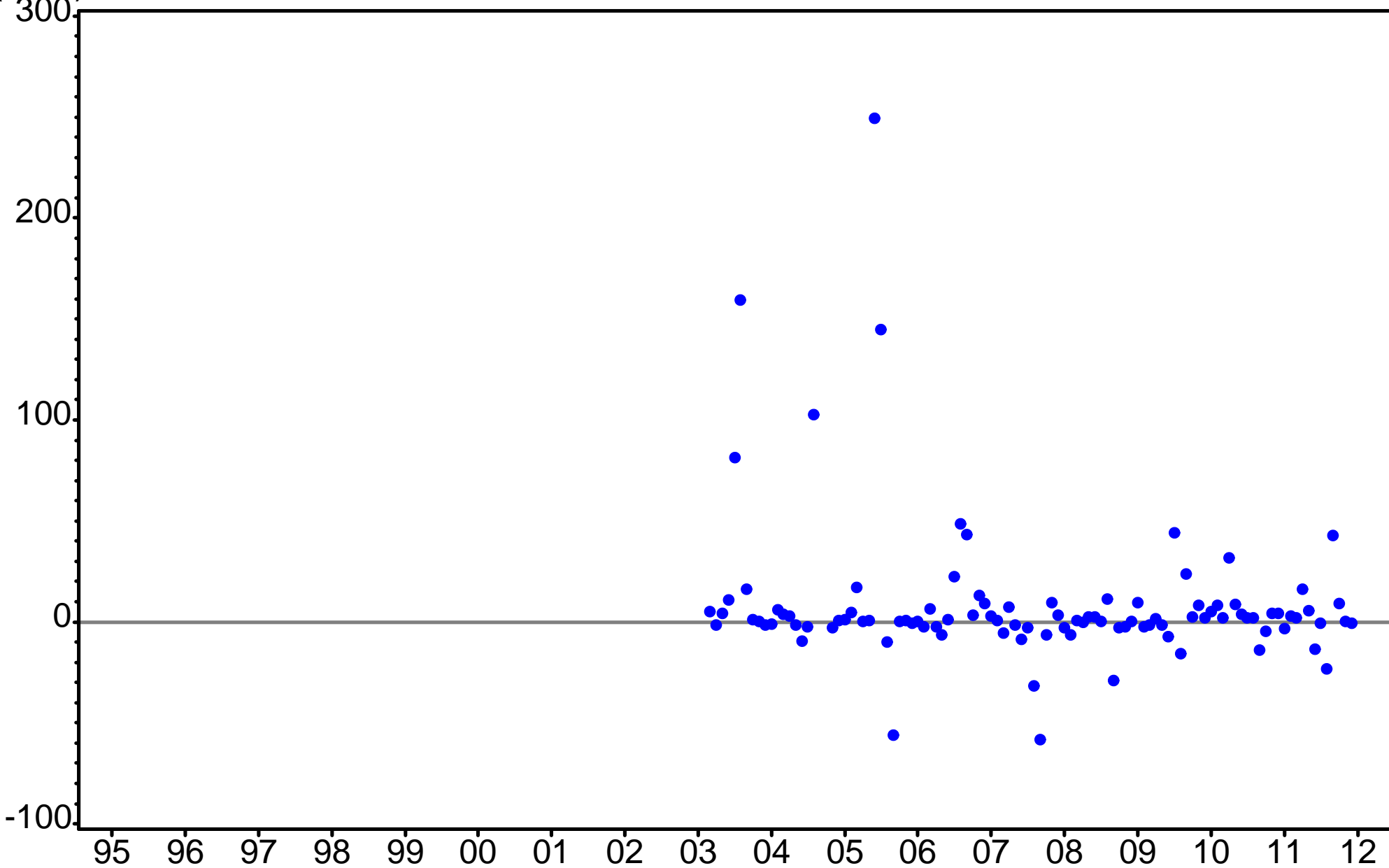
Dona and Roberts Bay Trends Appendix - Display 397
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.0475	0.56812	0.65455	-0.22917

Dona and Roberts Bay Trends Appendix - Display 398

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(PCU)
300



Zero Reference Line Shown

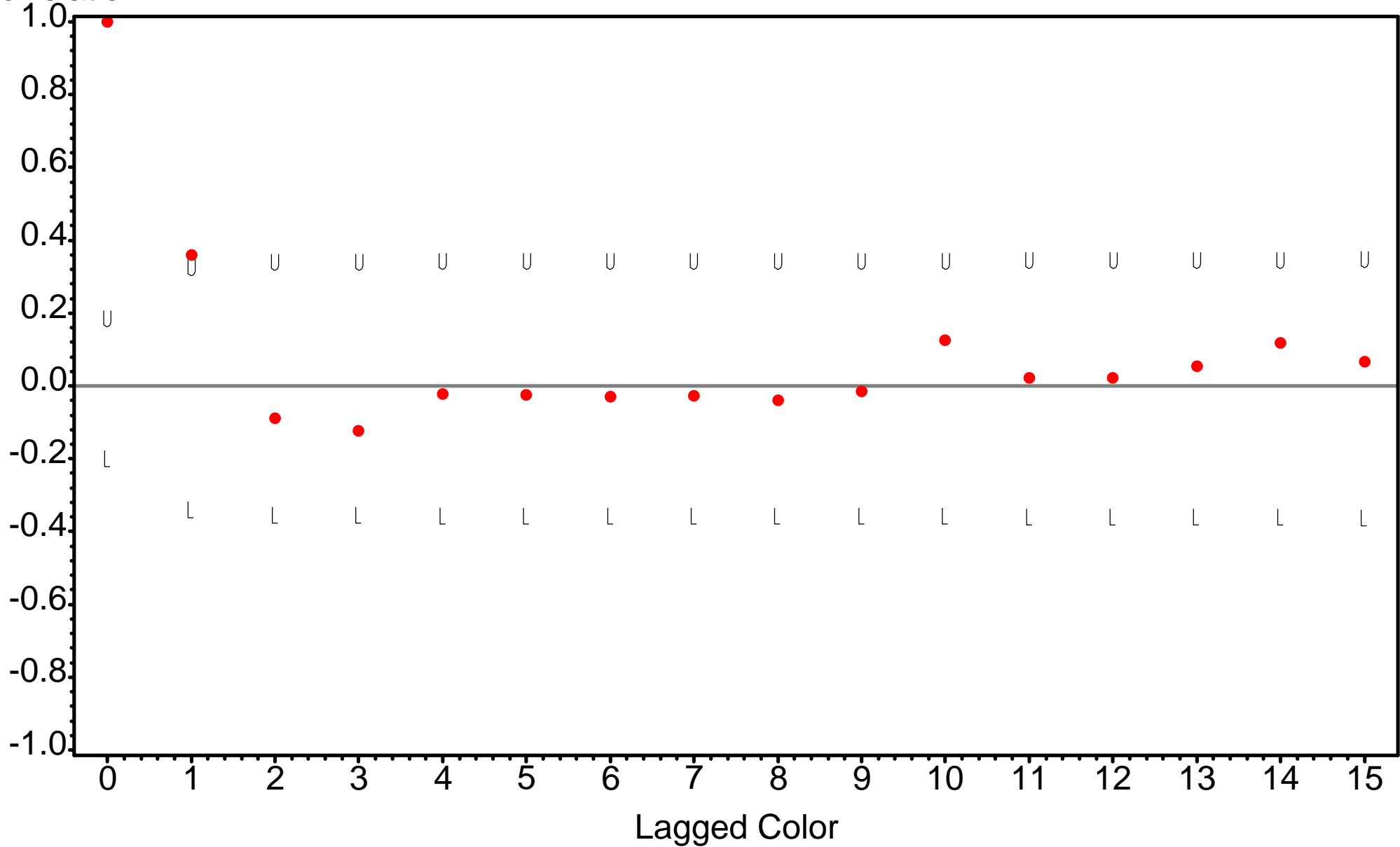
Dona and Roberts Bay Trends Appendix - Display 399
Autocorrelation Statistics for Surface Color in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.360	0.167	0.333	-0.333
2	-0.088	0.174	0.347	-0.347
3	-0.124	0.174	0.348	-0.348
4	-0.023	0.175	0.350	-0.350
5	-0.024	0.175	0.350	-0.350
6	-0.030	0.175	0.350	-0.350
7	-0.027	0.175	0.350	-0.350
8	-0.039	0.175	0.350	-0.350
9	-0.014	0.175	0.350	-0.350
10	0.126	0.175	0.350	-0.350
11	0.023	0.176	0.352	-0.352
12	0.023	0.176	0.352	-0.352
13	0.055	0.176	0.352	-0.352
14	0.119	0.176	0.353	-0.353
15	0.067	0.177	0.354	-0.354

Dona and Roberts Bay Trends Appendix - Display 400

Correlogram for Surface Color in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

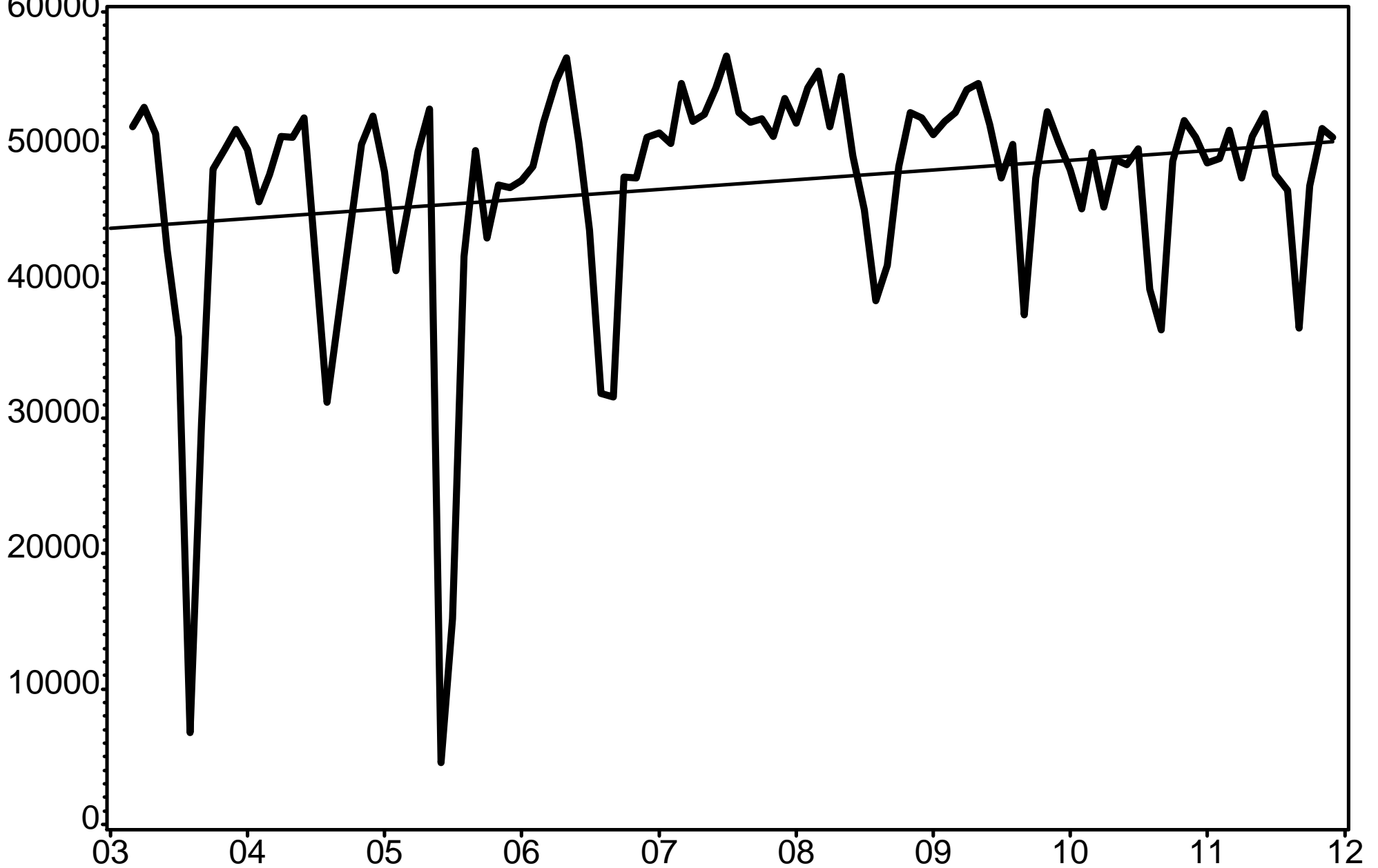
Dona and Roberts Bay Trends Appendix - Display 401

Monthly Data Time Series

for Surface Specific Conductance in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



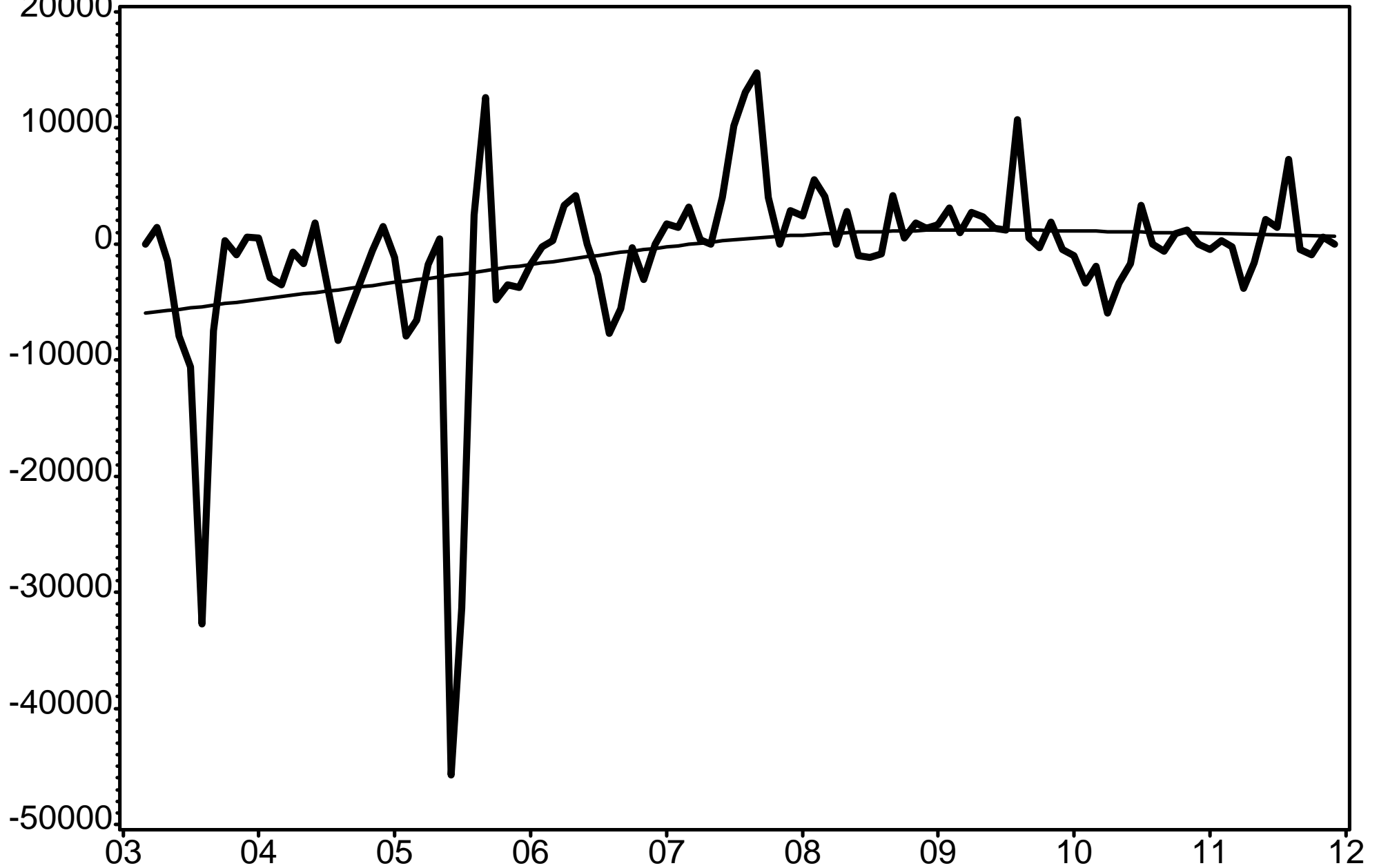
Dona and Roberts Bay Trends Appendix - Display 402

Monthly Data Time Series

for Surface Specific Conductance in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)



Dona and Roberts Bay Trends Appendix - Display 403

Seasonal Univariate Statistics

for Surface Specific Conductance in Dona and Roberts Bay

COND
($\mu\text{S}/\text{cm}$)

60000

50000

40000

30000

20000

10000

0

Jan

Feb

Mar

Apr

May

Jun

Jul

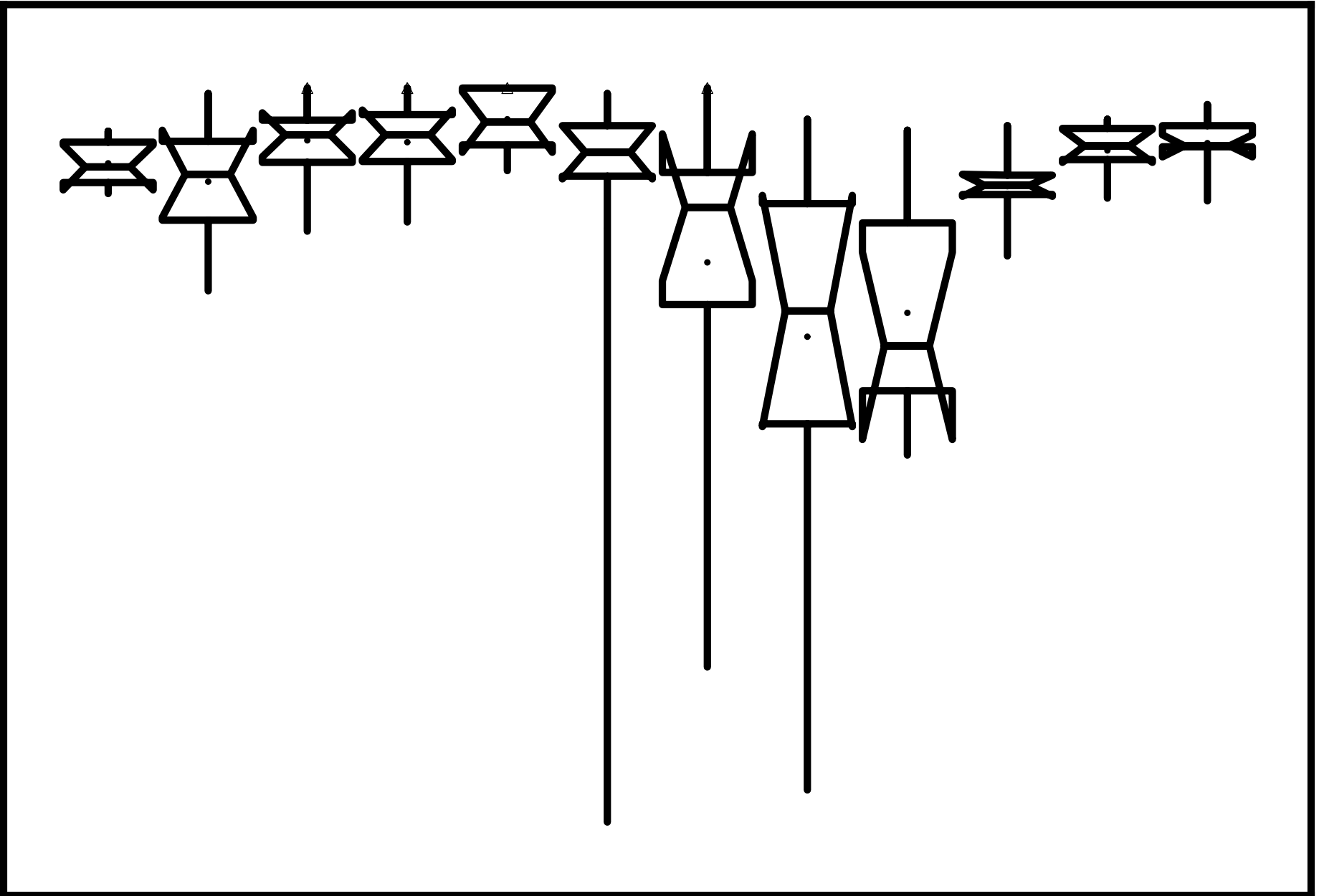
Aug

Sep

Oct

Nov

Dec

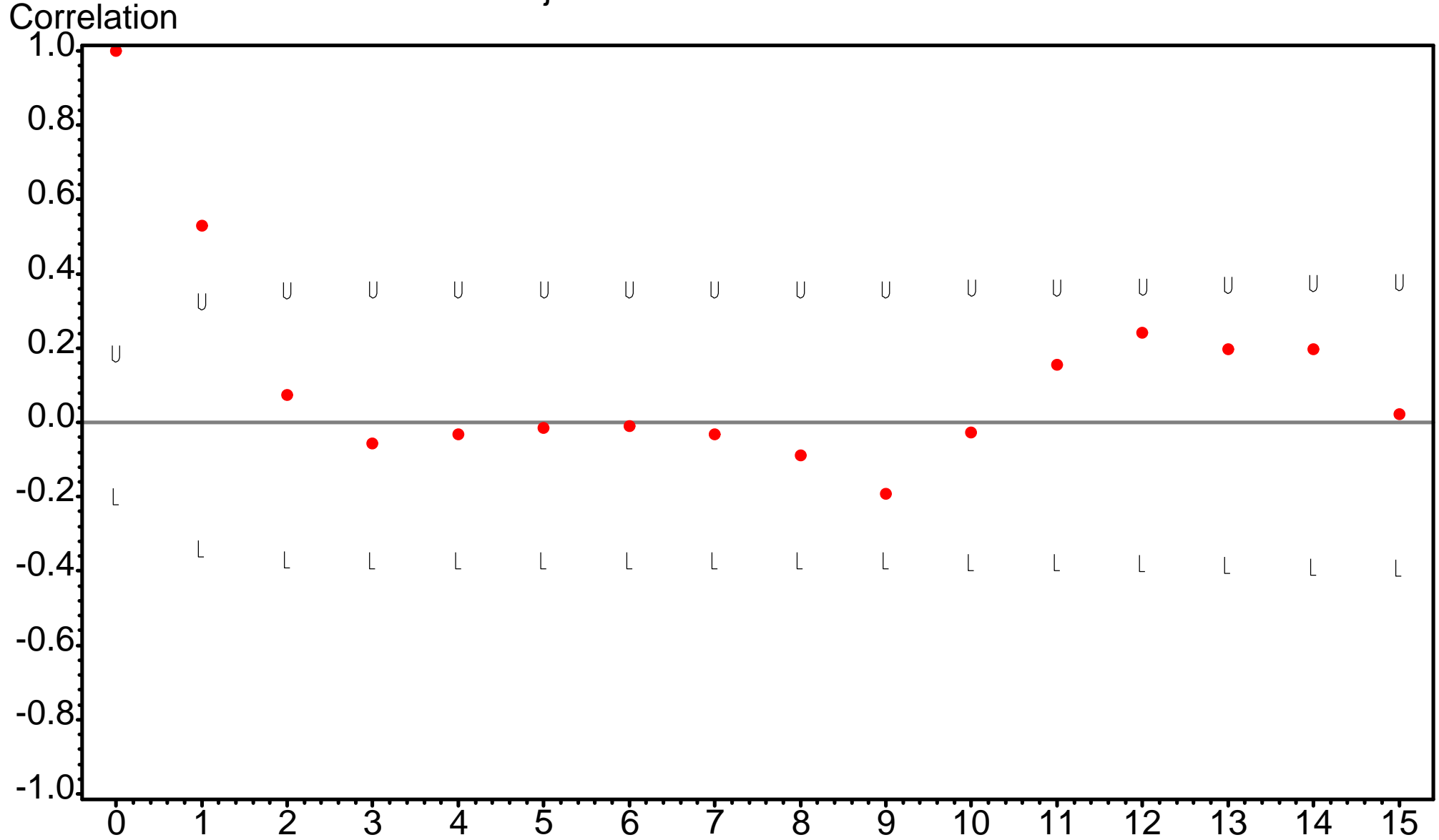


Dona and Roberts Bay Trends Appendix - Display 404
Autocorrelation Statistics for Surface Specific Conductance in Dona and Roberts Bay

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.529	0.167	0.333	-0.333
2	0.074	0.182	0.363	-0.363
3	-0.057	0.182	0.364	-0.364
4	-0.032	0.182	0.364	-0.364
5	-0.015	0.182	0.364	-0.364
6	-0.011	0.182	0.364	-0.364
7	-0.031	0.182	0.364	-0.364
8	-0.089	0.182	0.364	-0.364
9	-0.193	0.183	0.365	-0.365
10	-0.026	0.184	0.369	-0.369
11	0.156	0.184	0.369	-0.369
12	0.241	0.186	0.371	-0.371
13	0.198	0.189	0.377	-0.377
14	0.196	0.190	0.381	-0.381
15	0.022	0.192	0.385	-0.385

Dona and Roberts Bay Trends Appendix - Display 405

Correlogram for Surface Specific Conductance in Dona and Roberts Bay Unadjusted for Seasonal Median



Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 406
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.053	0.428	0.428	120.878

Dona and Roberts Bay Trends Appendix - Display 407
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Dona and Roberts Bay
Adjusted for Seasonal Medians

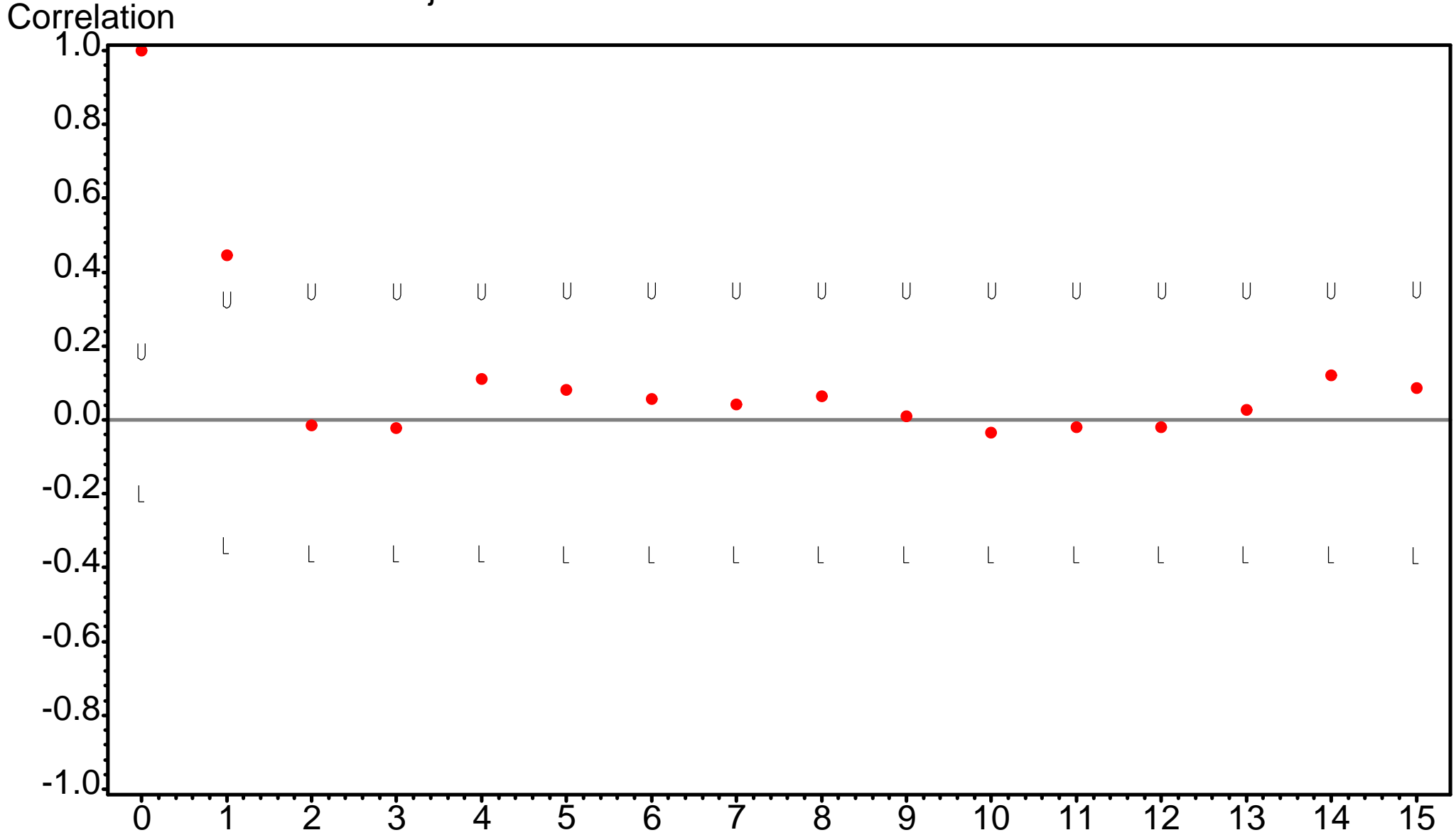
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.14286	0.077507	0.37897	296.5

Dona and Roberts Bay Trends Appendix - Display 409
Autocorrelation Statistics for Surface Specific Conductance in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.445	0.167	0.333	-0.333
2	-0.014	0.177	0.355	-0.355
3	-0.022	0.177	0.355	-0.355
4	0.110	0.177	0.355	-0.355
5	0.081	0.178	0.356	-0.356
6	0.056	0.178	0.357	-0.357
7	0.041	0.178	0.357	-0.357
8	0.064	0.179	0.357	-0.357
9	0.010	0.179	0.358	-0.358
10	-0.035	0.179	0.358	-0.358
11	-0.020	0.179	0.358	-0.358
12	-0.020	0.179	0.358	-0.358
13	0.026	0.179	0.358	-0.358
14	0.121	0.179	0.358	-0.358
15	0.085	0.180	0.359	-0.359

Dona and Roberts Bay Trends Appendix - Display 410

Correlogram for Surface Specific Conductance in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

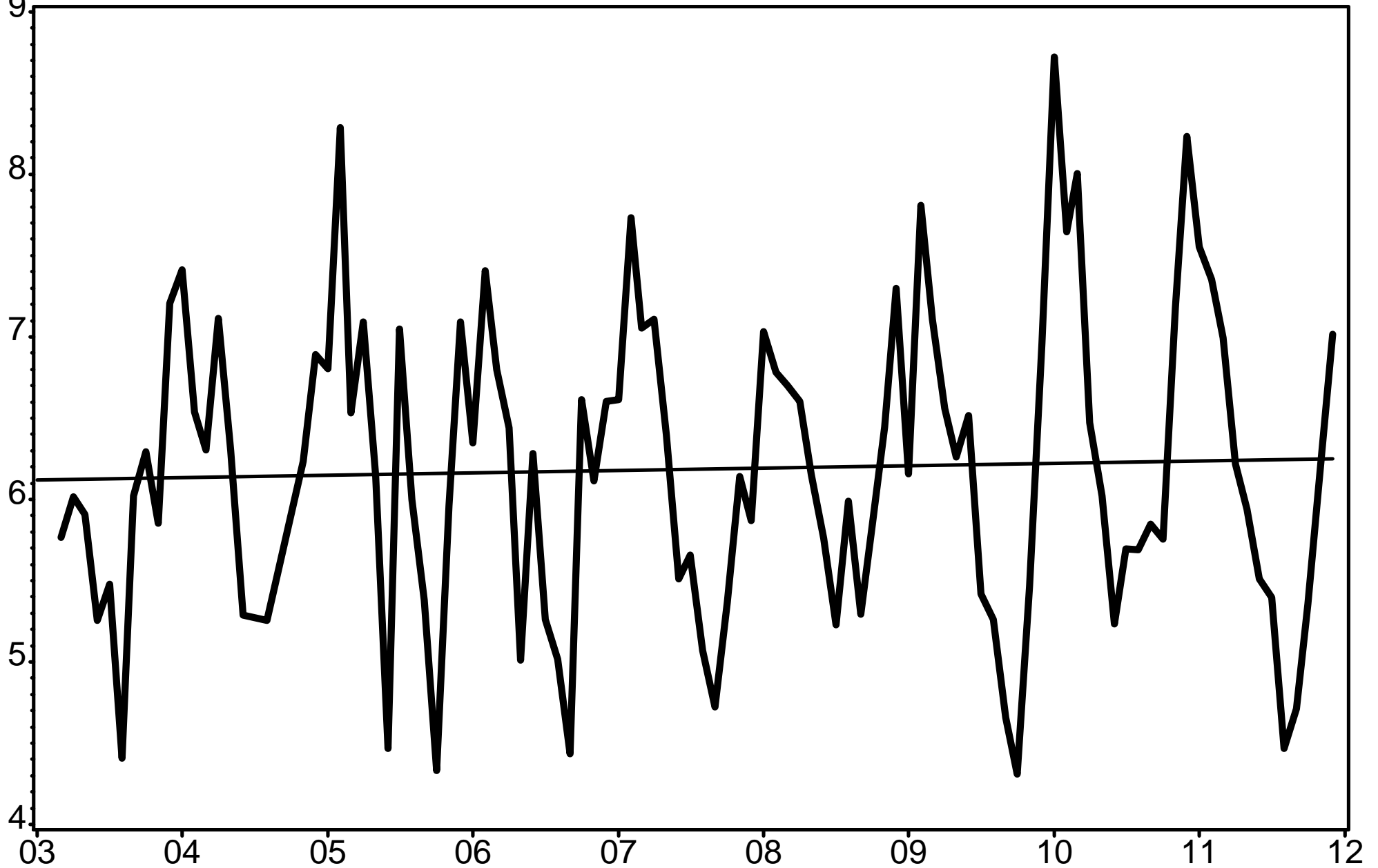
Dona and Roberts Bay Trends Appendix - Display 411

Monthly Data Time Series

for Surface Dissolved Oxygen in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



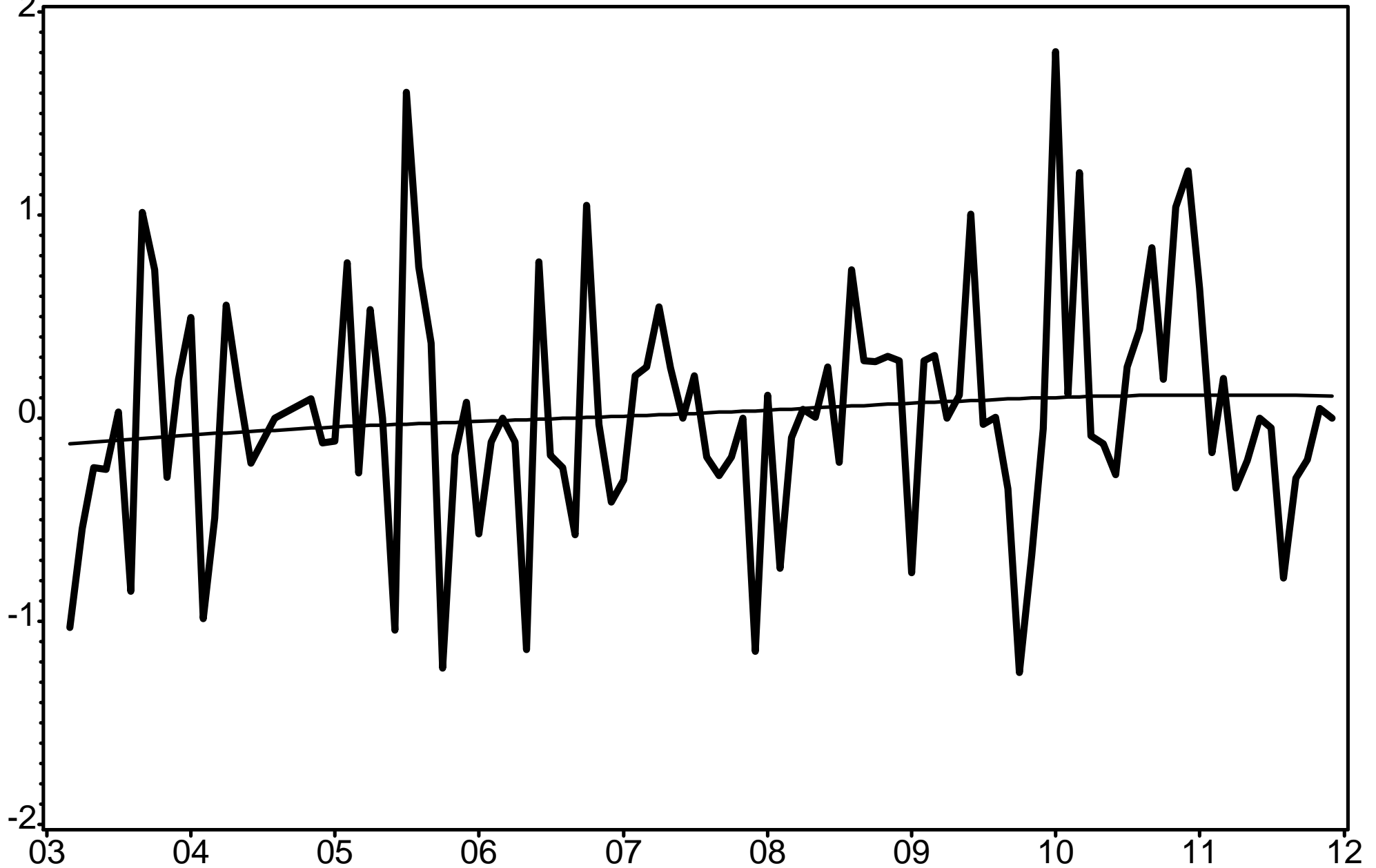
Dona and Roberts Bay Trends Appendix - Display 412

Monthly Data Time Series

for Surface Dissolved Oxygen in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

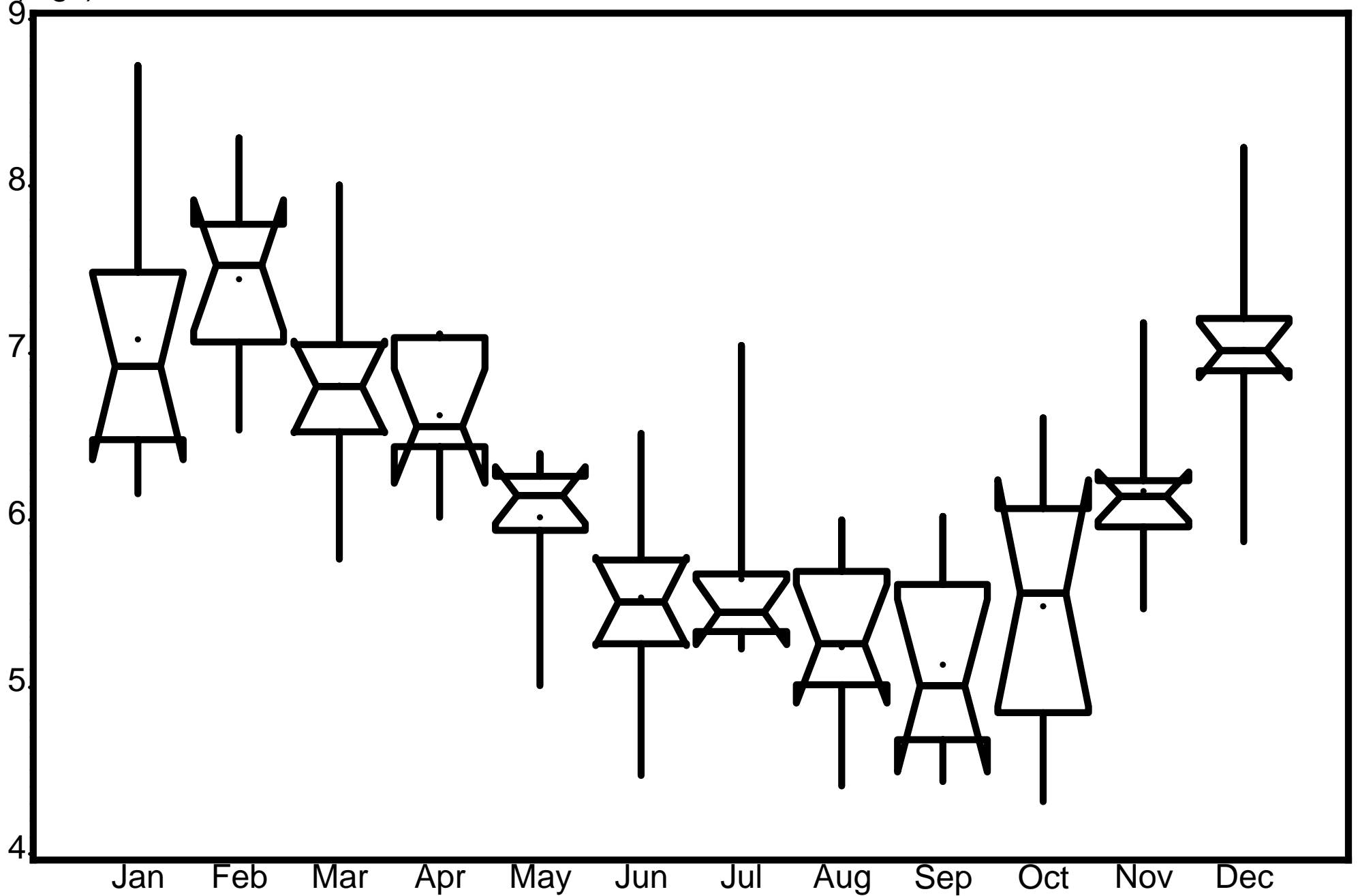


Dona and Roberts Bay Trends Appendix - Display 413

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Dona and Roberts Bay

DO_mgl
(mg/l)

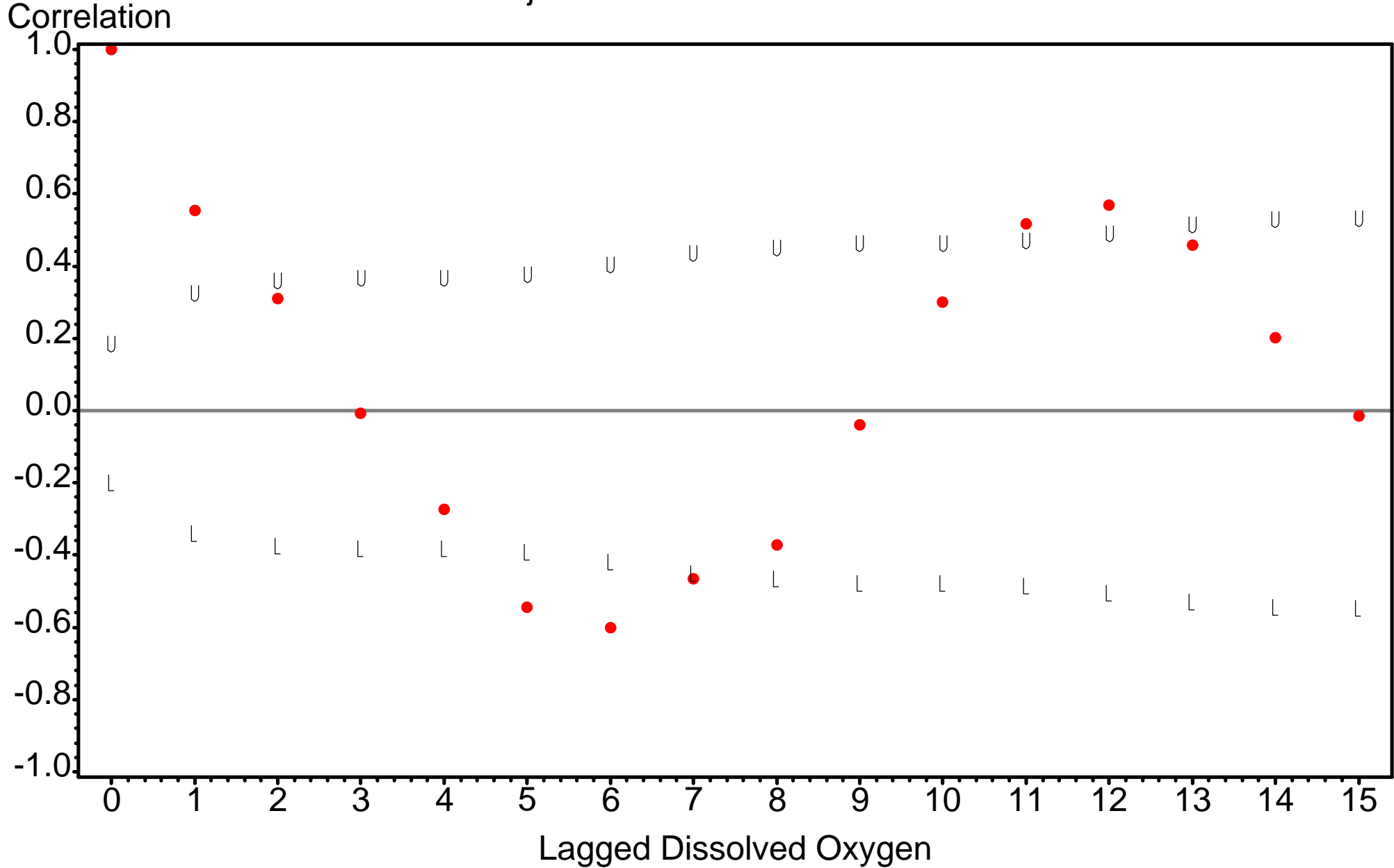


Dona and Roberts Bay Trends Appendix - Display 414
Autocorrelation Statistics for Surface Dissolved Oxygen in Dona and Roberts Bay

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.553	0.167	0.333	-0.333
2	0.311	0.183	0.366	-0.366
3	-0.007	0.188	0.375	-0.375
4	-0.274	0.188	0.375	-0.375
5	-0.543	0.191	0.383	-0.383
6	-0.600	0.205	0.410	-0.410
7	-0.466	0.221	0.442	-0.442
8	-0.371	0.230	0.459	-0.459
9	-0.040	0.235	0.470	-0.470
10	0.301	0.235	0.471	-0.471
11	0.518	0.239	0.478	-0.478
12	0.570	0.249	0.498	-0.498
13	0.458	0.261	0.522	-0.522
14	0.202	0.268	0.536	-0.536
15	-0.015	0.270	0.539	-0.539

Dona and Roberts Bay Trends Appendix - Display 415

Correlogram for Surface Dissolved Oxygen in Dona and Roberts Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 416
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.005	0.941	0.941	.002

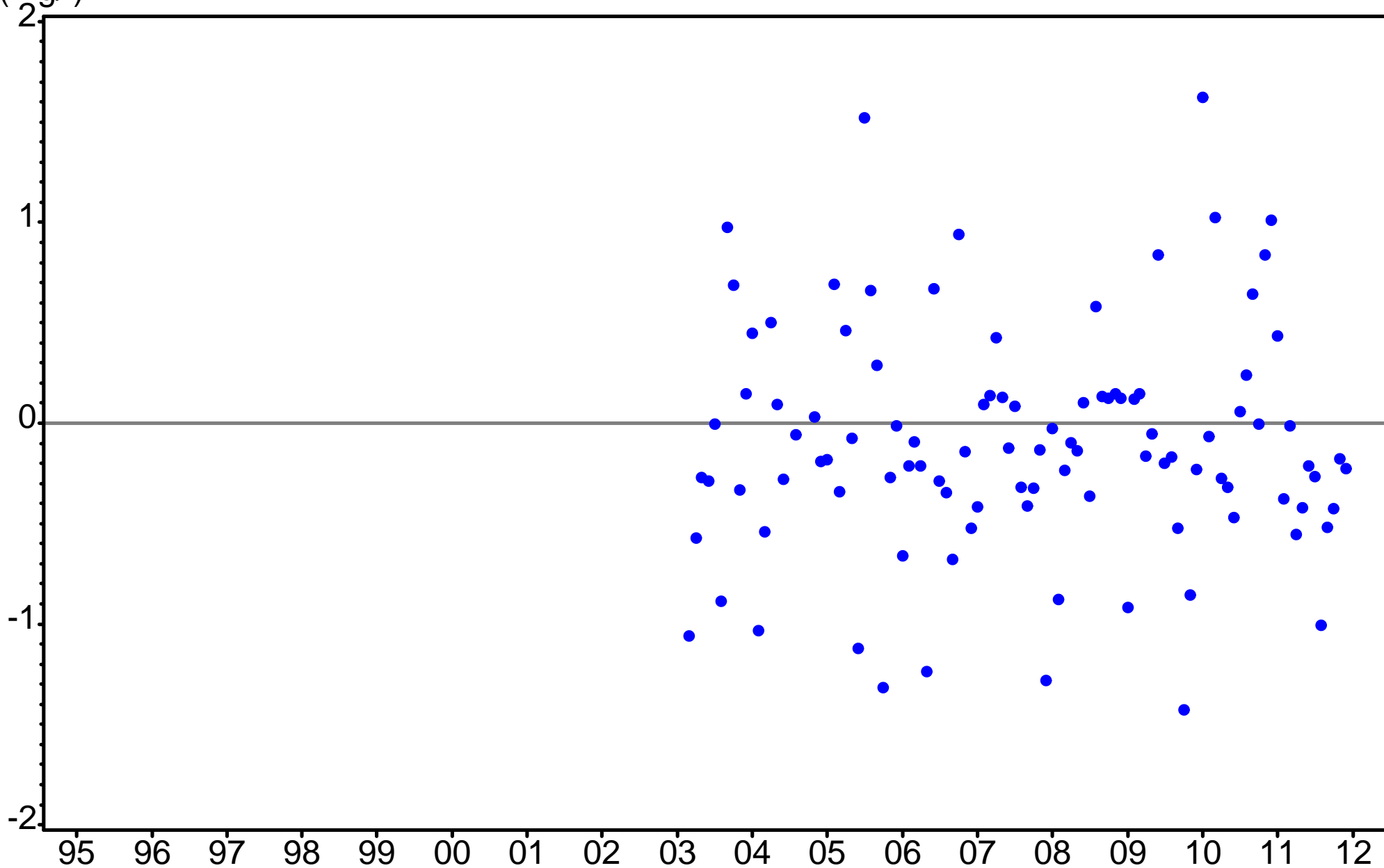
Dona and Roberts Bay Trends Appendix - Display 417
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.073980	0.36856	0.44764	0.022786

Dona and Roberts Bay Trends Appendix - Display 418

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(mg/l)



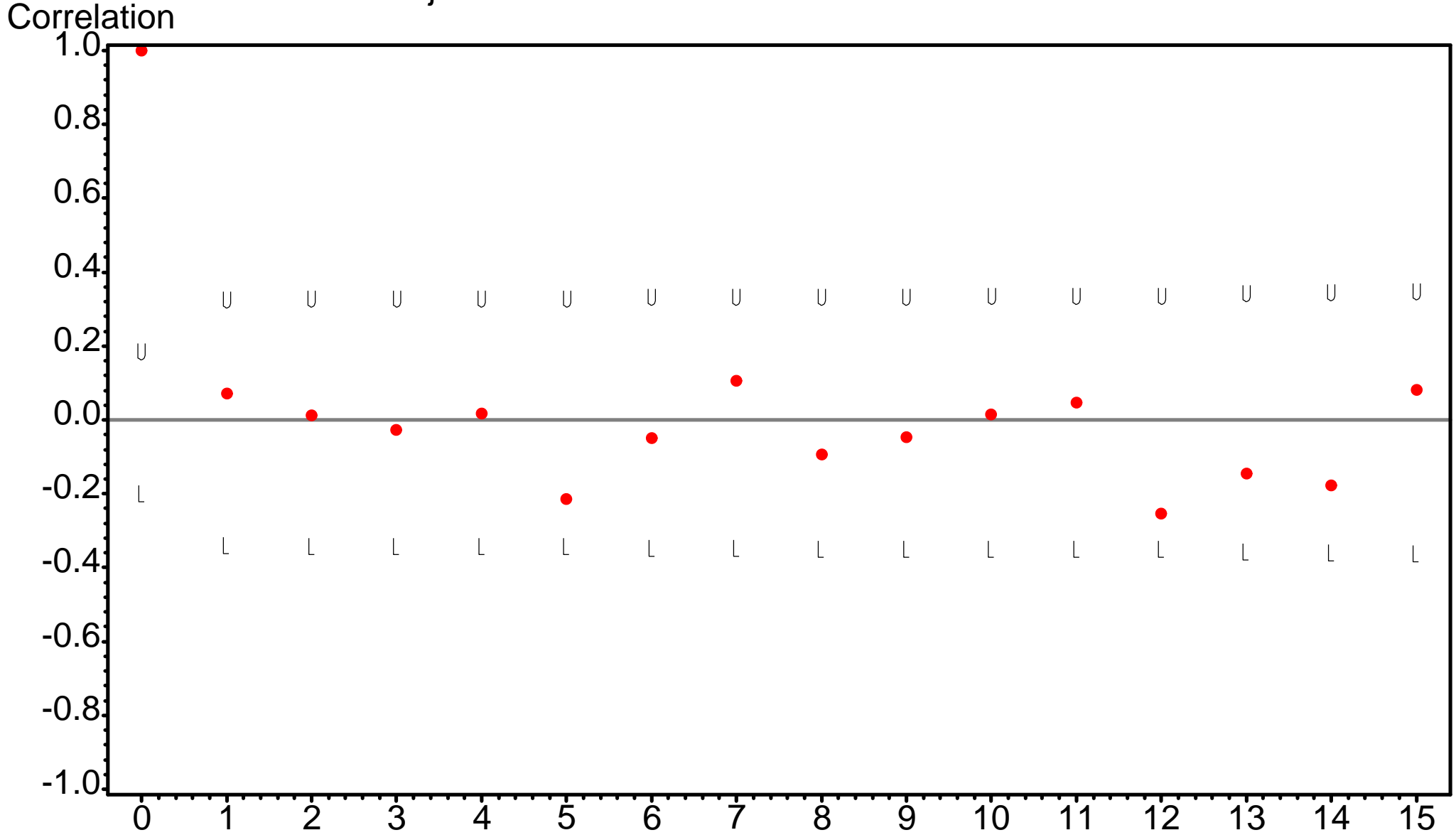
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 419
Autocorrelation Statistics for Surface Dissolved Oxygen in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.071	0.167	0.333	-0.333
2	0.013	0.167	0.334	-0.334
3	-0.026	0.167	0.334	-0.334
4	0.017	0.167	0.334	-0.334
5	-0.214	0.167	0.334	-0.334
6	-0.050	0.170	0.339	-0.339
7	0.105	0.170	0.339	-0.339
8	-0.093	0.170	0.341	-0.341
9	-0.047	0.171	0.341	-0.341
10	0.015	0.171	0.342	-0.342
11	0.047	0.171	0.342	-0.342
12	-0.253	0.171	0.342	-0.342
13	-0.145	0.174	0.349	-0.349
14	-0.177	0.176	0.351	-0.351
15	0.082	0.177	0.354	-0.354

Dona and Roberts Bay Trends Appendix - Display 420

Correlogram for Surface Dissolved Oxygen in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



Lagged Dissolved Oxygen

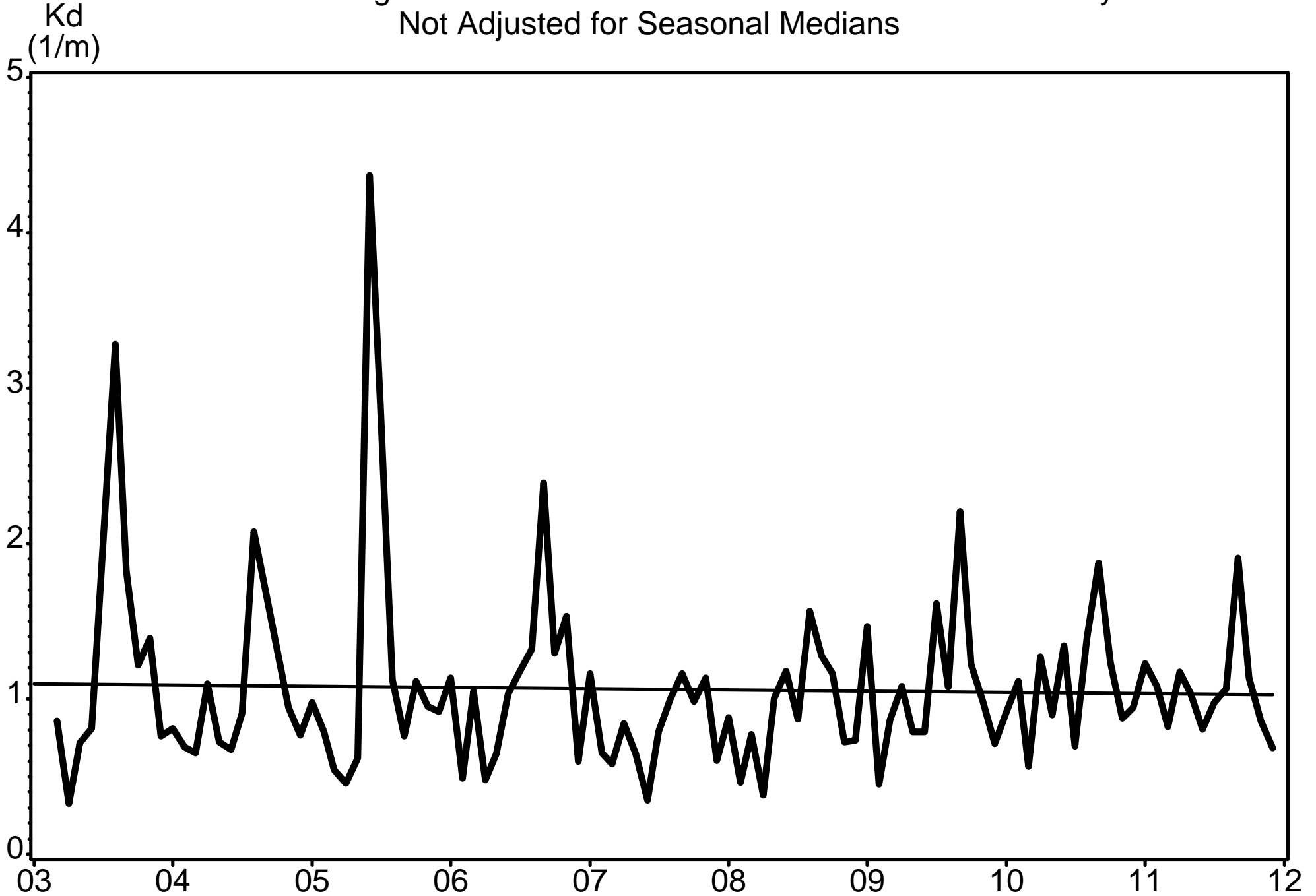
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 421

Monthly Data Time Series

for Surface Light Attenuation Coefficient in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

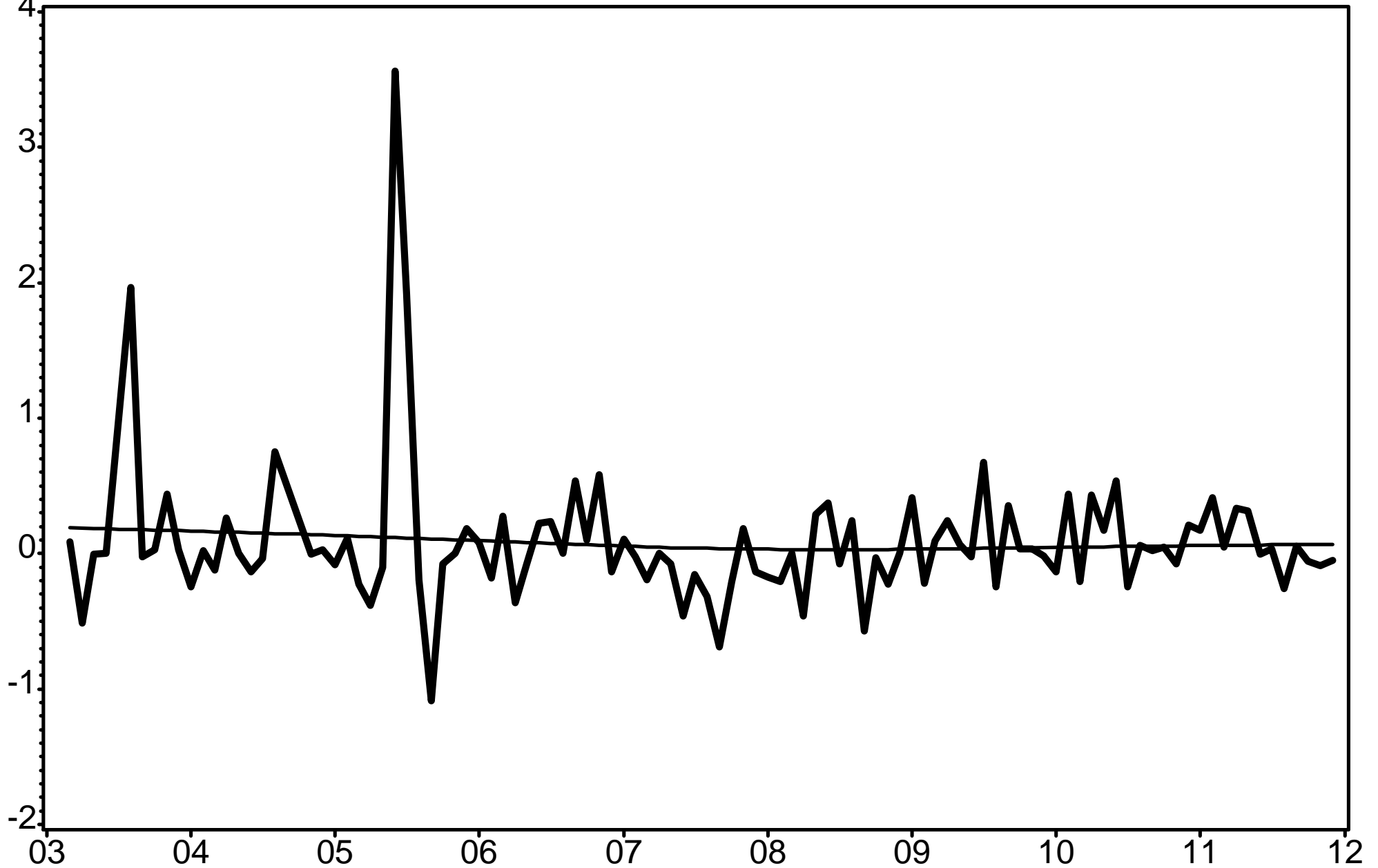


Dona and Roberts Bay Trends Appendix - Display 422

Monthly Data Time Series

Adjusted
Kd
(1/m)

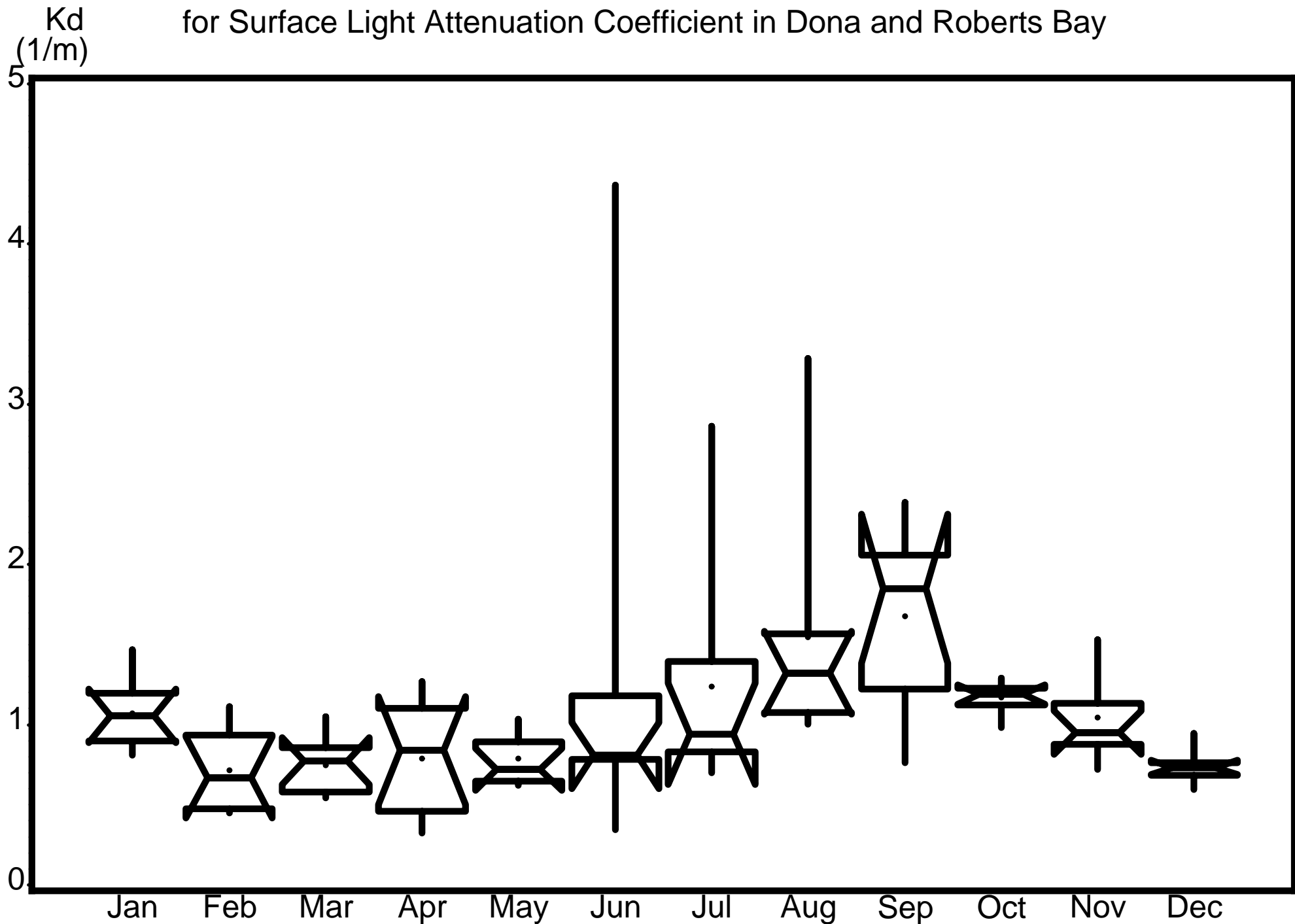
for Surface Light Attenuation Coefficient in Dona and Roberts Bay
Adjusted for Seasonal Medians



Dona and Roberts Bay Trends Appendix - Display 423

Seasonal Univariate Statistics

for Surface Light Attenuation Coefficient in Dona and Roberts Bay



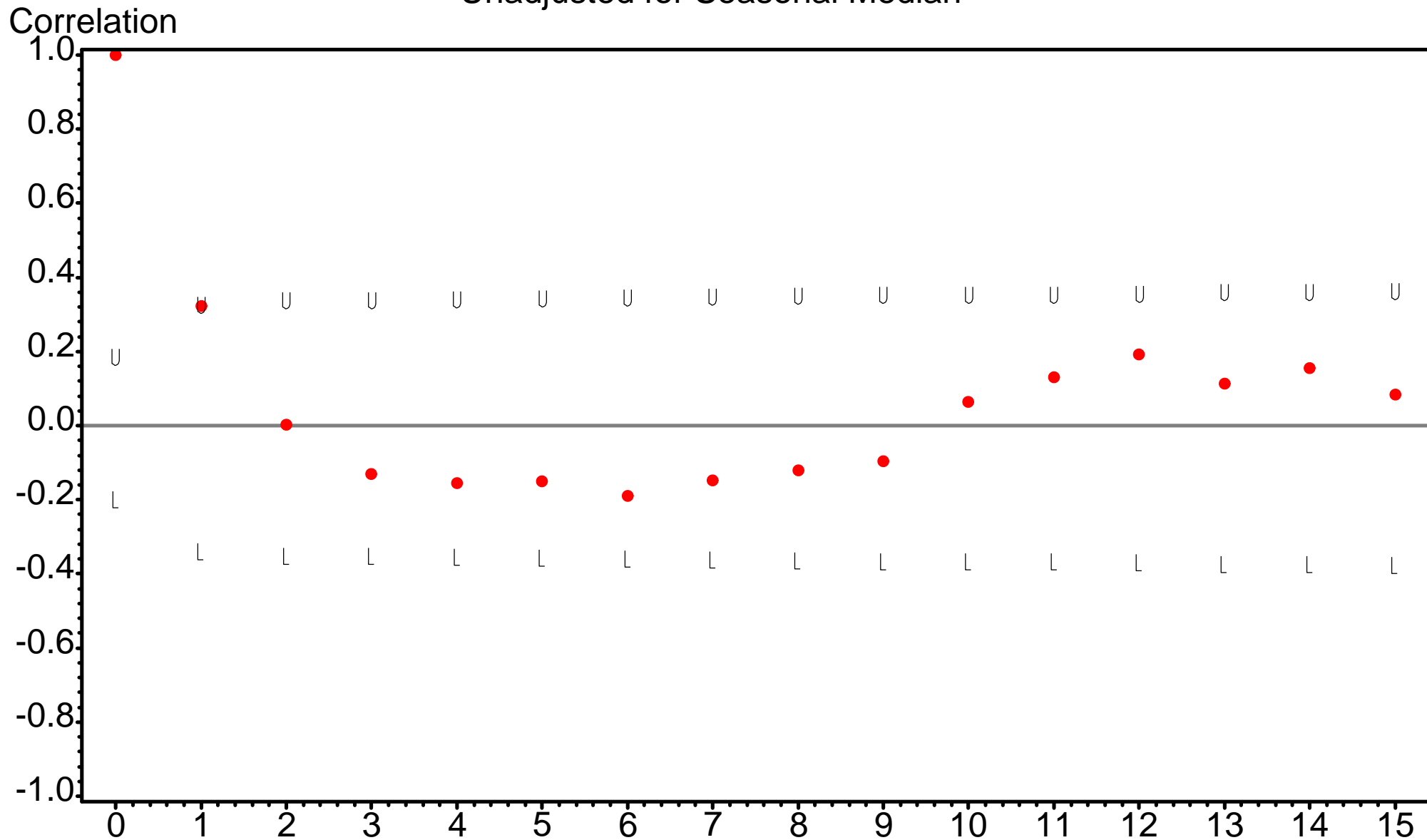
Dona and Roberts Bay Trends Appendix - Display 424

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Dona and Roberts Bay

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.323	0.167	0.333	-0.333
2	0.003	0.172	0.345	-0.345
3	-0.131	0.172	0.345	-0.345
4	-0.155	0.173	0.347	-0.347
5	-0.151	0.175	0.349	-0.349
6	-0.189	0.176	0.352	-0.352
7	-0.148	0.178	0.355	-0.355
8	-0.121	0.179	0.358	-0.358
9	-0.095	0.180	0.359	-0.359
10	0.063	0.180	0.360	-0.360
11	0.130	0.180	0.360	-0.360
12	0.192	0.181	0.362	-0.362
13	0.113	0.183	0.366	-0.366
14	0.155	0.184	0.367	-0.367
15	0.084	0.185	0.370	-0.370

Dona and Roberts Bay Trends Appendix - Display 425

Correlogram for Surface Light Attenuation Coefficient in Dona and Roberts Bay
Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 426
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Dona and Roberts Bay
Unadjusted for Seasonal Medians

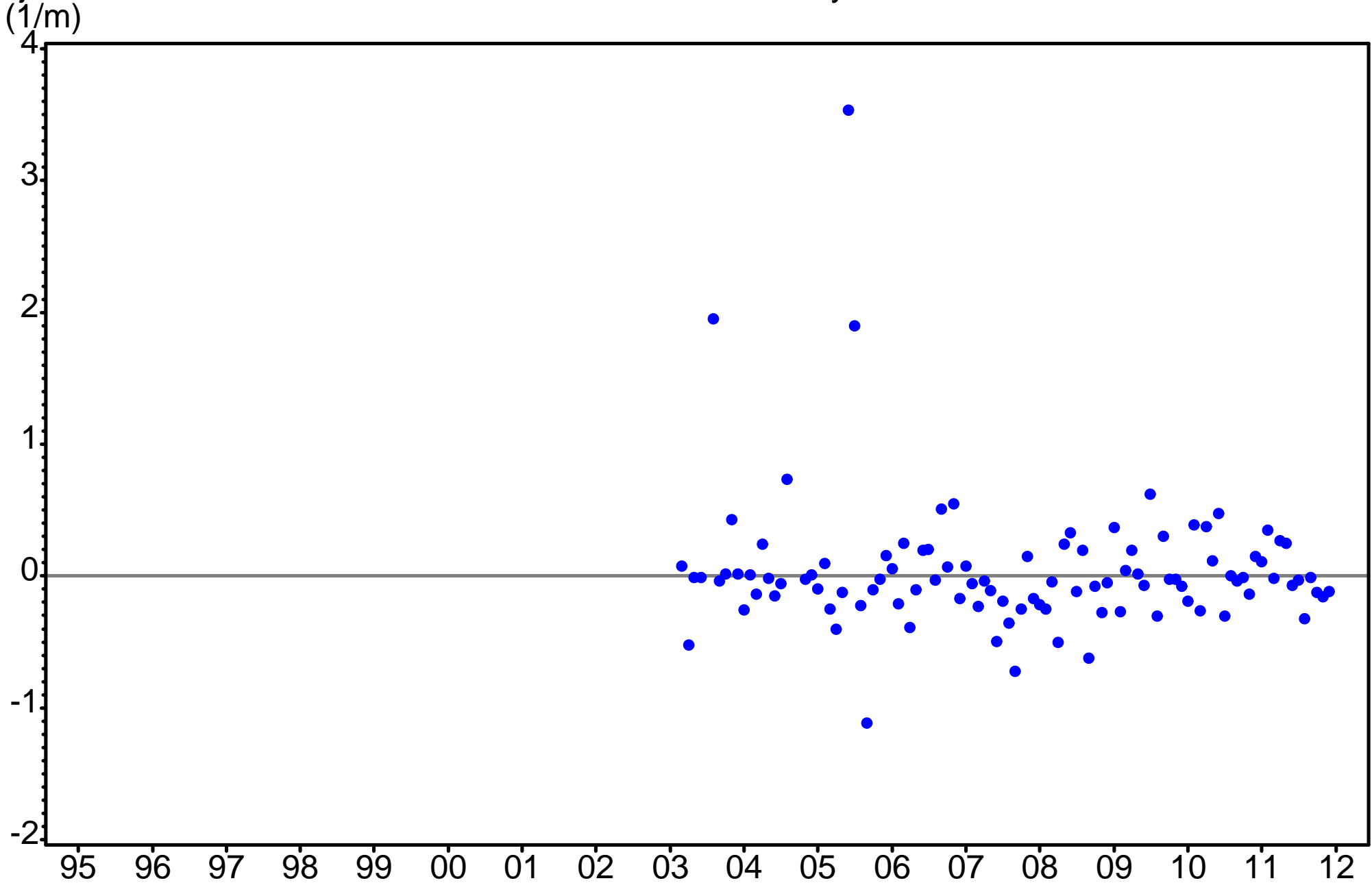
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.095	0.158	0.158	0.02

Dona and Roberts Bay Trends Appendix - Display 427
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.056122	0.50029	0.56424	.00688571

Dona and Roberts Bay Trends Appendix - Display 428

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted
Dona and Roberts Bay



Zero Reference Line Shown

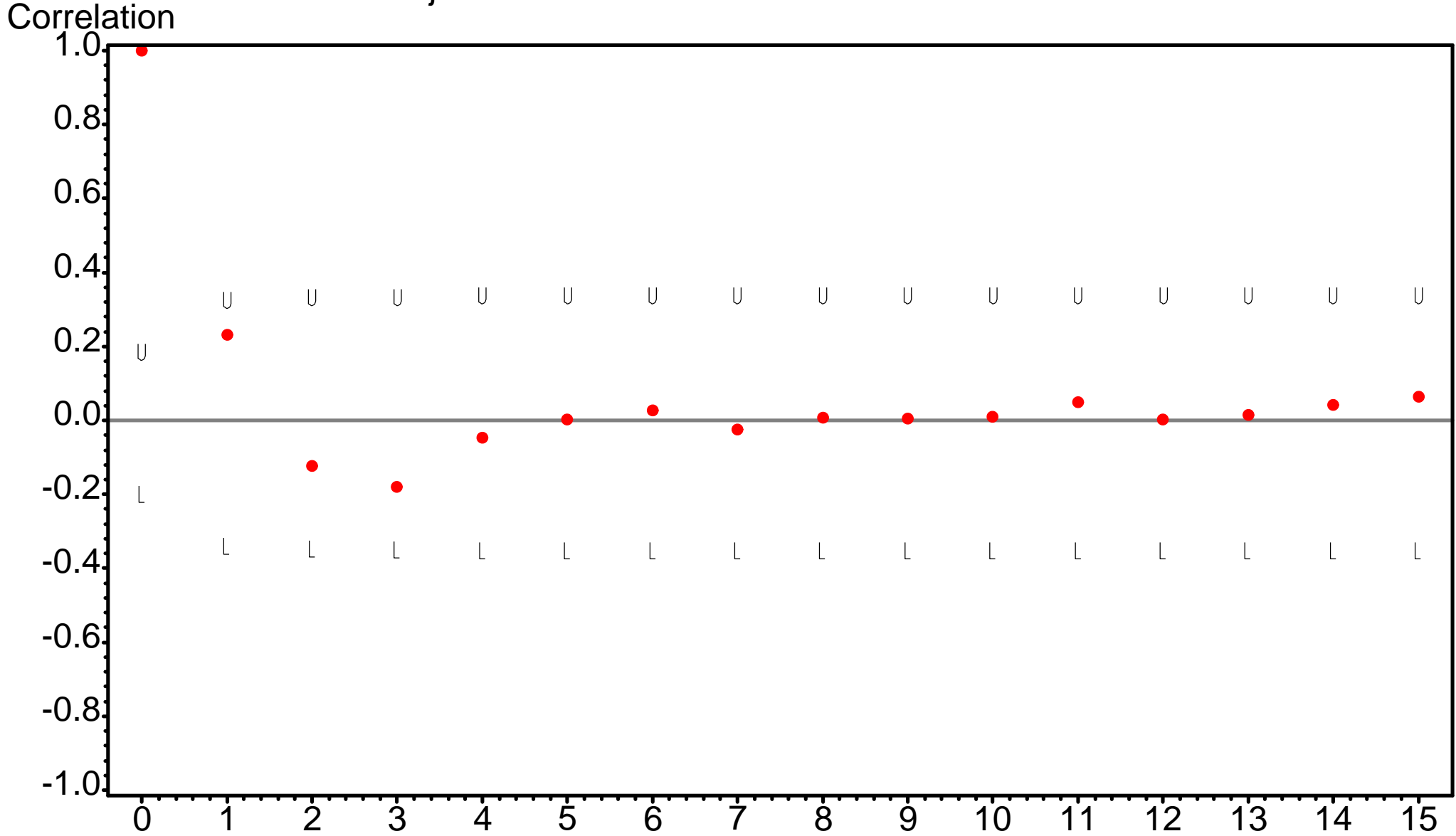
Dona and Roberts Bay Trends Appendix - Display 429

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.232	0.167	0.333	-0.333
2	-0.123	0.170	0.339	-0.339
3	-0.179	0.170	0.341	-0.341
4	-0.047	0.172	0.344	-0.344
5	0.003	0.172	0.345	-0.345
6	0.026	0.172	0.345	-0.345
7	-0.025	0.172	0.345	-0.345
8	0.008	0.172	0.345	-0.345
9	0.004	0.172	0.345	-0.345
10	0.010	0.172	0.345	-0.345
11	0.050	0.172	0.345	-0.345
12	0.003	0.173	0.345	-0.345
13	0.014	0.173	0.345	-0.345
14	0.043	0.173	0.345	-0.345
15	0.063	0.173	0.345	-0.345

Dona and Roberts Bay Trends Appendix - Display 430

Correlogram for Surface Light Attenuation Coefficient in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

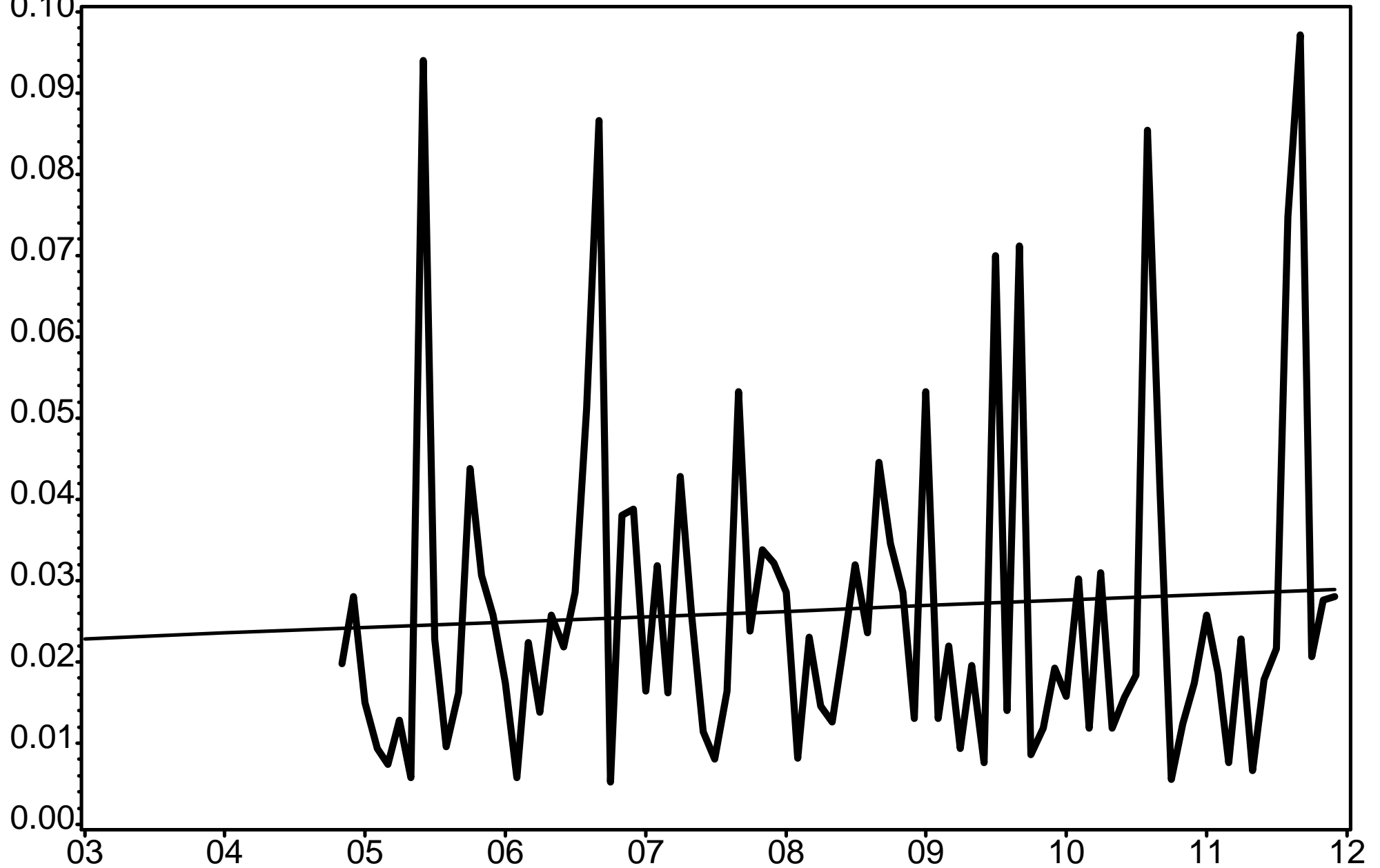
Dona and Roberts Bay Trends Appendix - Display 431

Monthly Data Time Series

for Surface Ammonia as N Total in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



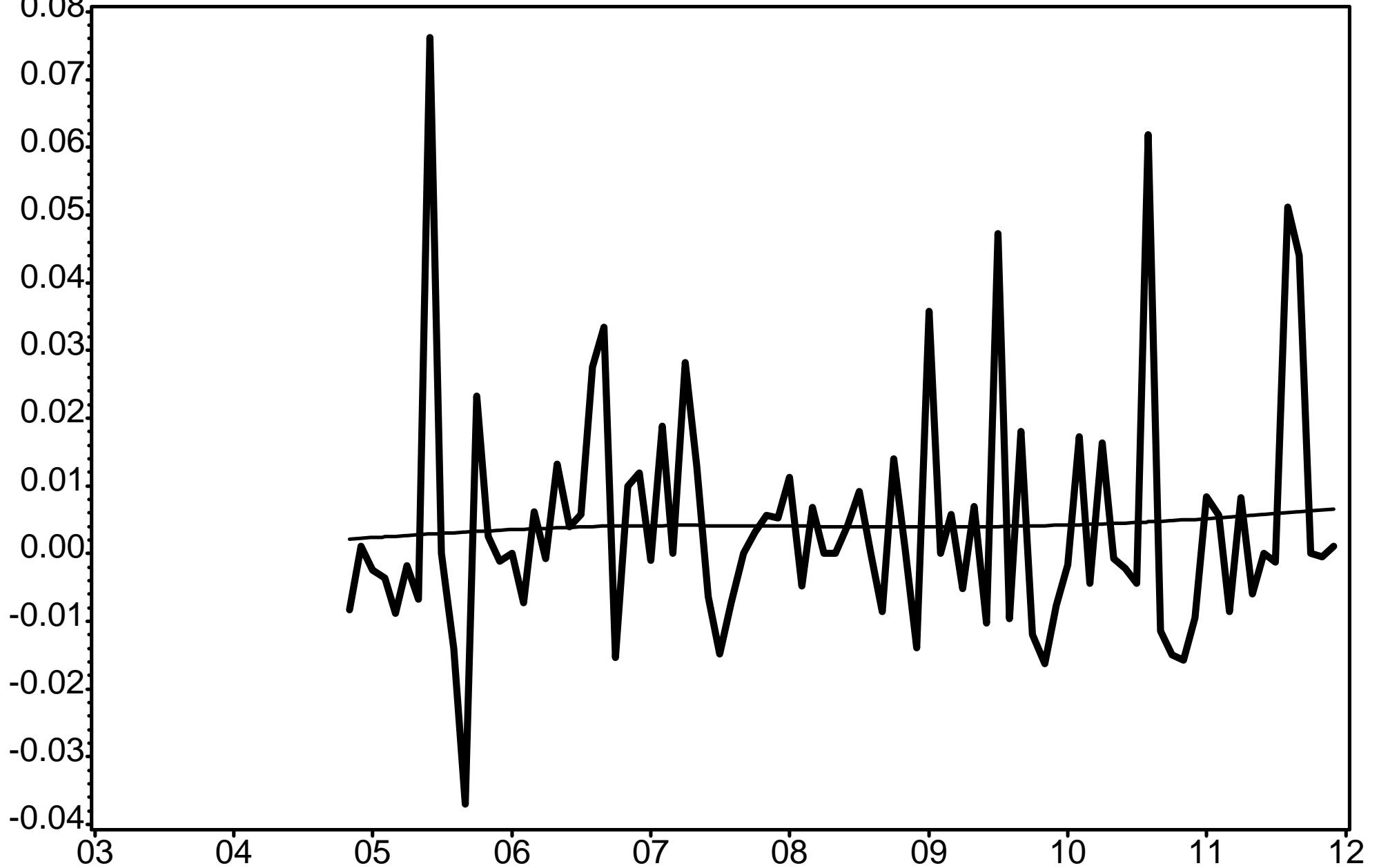
Dona and Roberts Bay Trends Appendix - Display 432

Monthly Data Time Series

for Surface Ammonia as N Total in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

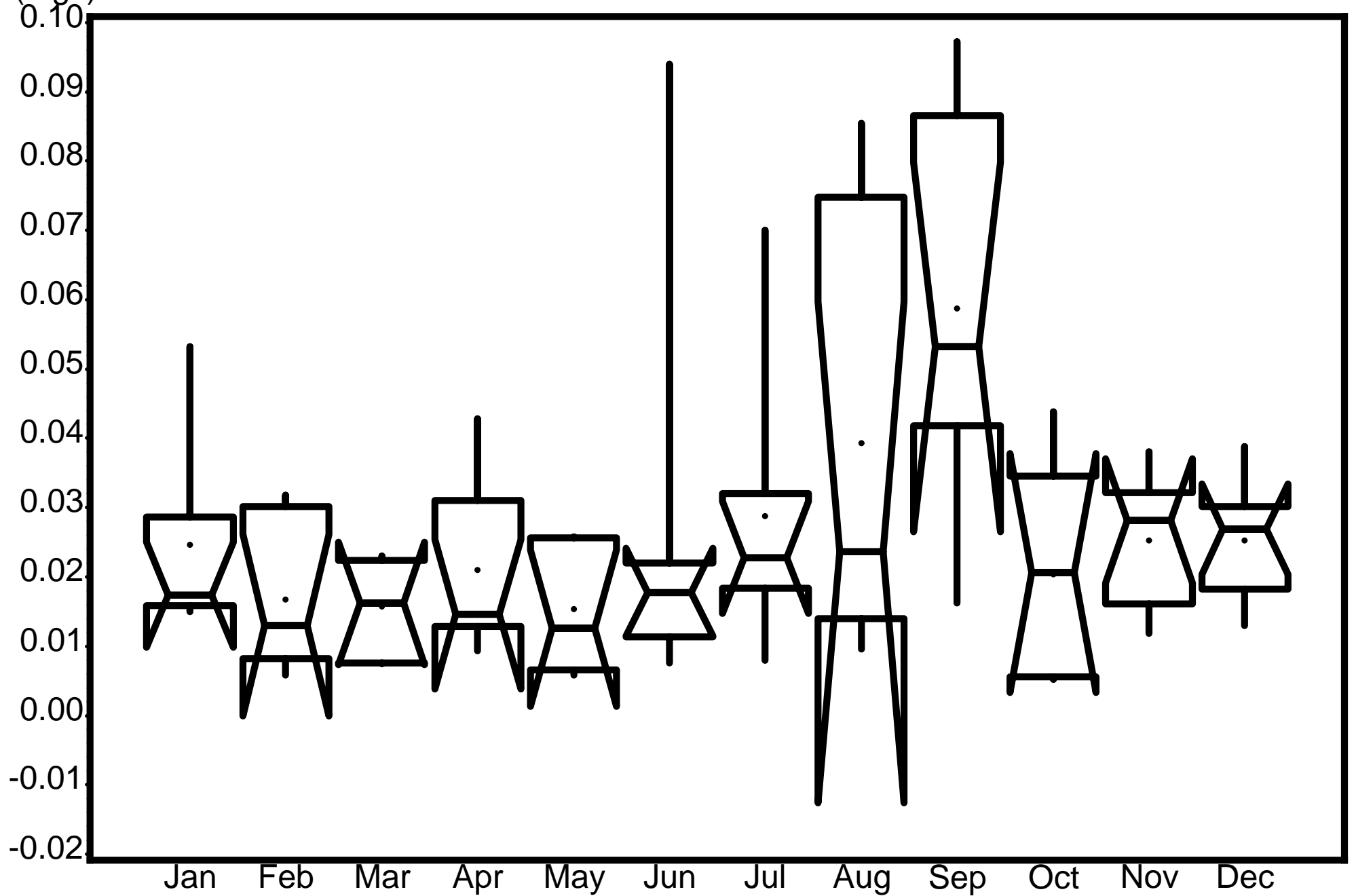


Dona and Roberts Bay Trends Appendix - Display 433

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Dona and Roberts Bay

NH3_mgl
(mg/l)



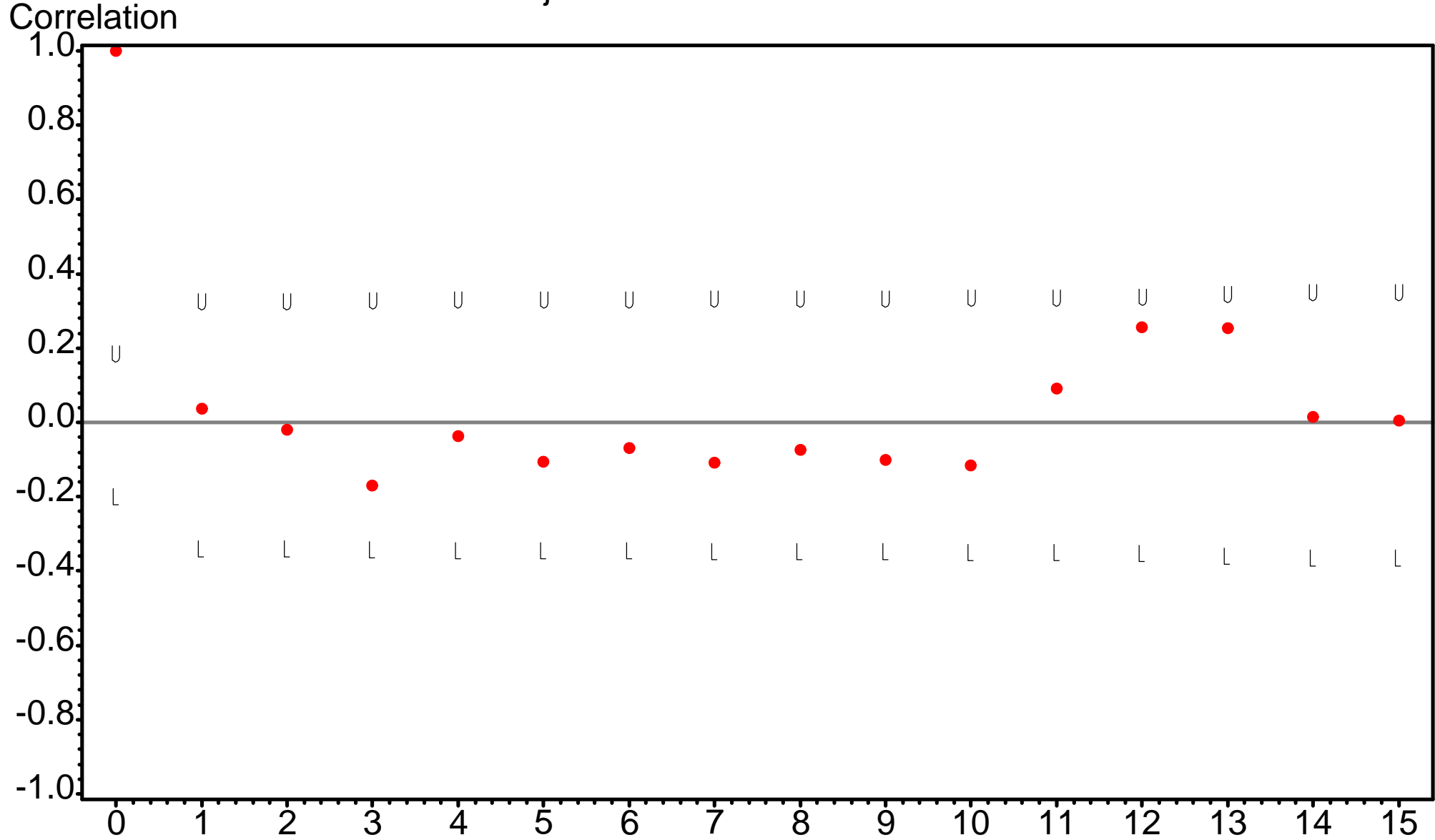
Dona and Roberts Bay Trends Appendix - Display 434
Autocorrelation Statistics for Surface Ammonia as N Total in Dona and Roberts Bay

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.037	0.167	0.333	-0.333
2	-0.020	0.167	0.333	-0.333
3	-0.169	0.167	0.334	-0.334
4	-0.036	0.168	0.337	-0.337
5	-0.107	0.168	0.337	-0.337
6	-0.069	0.169	0.338	-0.338
7	-0.108	0.169	0.339	-0.339
8	-0.074	0.170	0.340	-0.340
9	-0.101	0.170	0.340	-0.340
10	-0.115	0.171	0.342	-0.342
11	0.091	0.172	0.343	-0.343
12	0.257	0.172	0.344	-0.344
13	0.253	0.175	0.351	-0.351
14	0.015	0.179	0.358	-0.358
15	0.006	0.179	0.358	-0.358

Dona and Roberts Bay Trends Appendix - Display 435

Correlogram for Surface Ammonia as N Total in Dona and Roberts Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 436
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.026	0.723	0.723	0

Dona and Roberts Bay Trends Appendix - Display 437
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Dona and Roberts Bay
Adjusted for Seasonal Medians

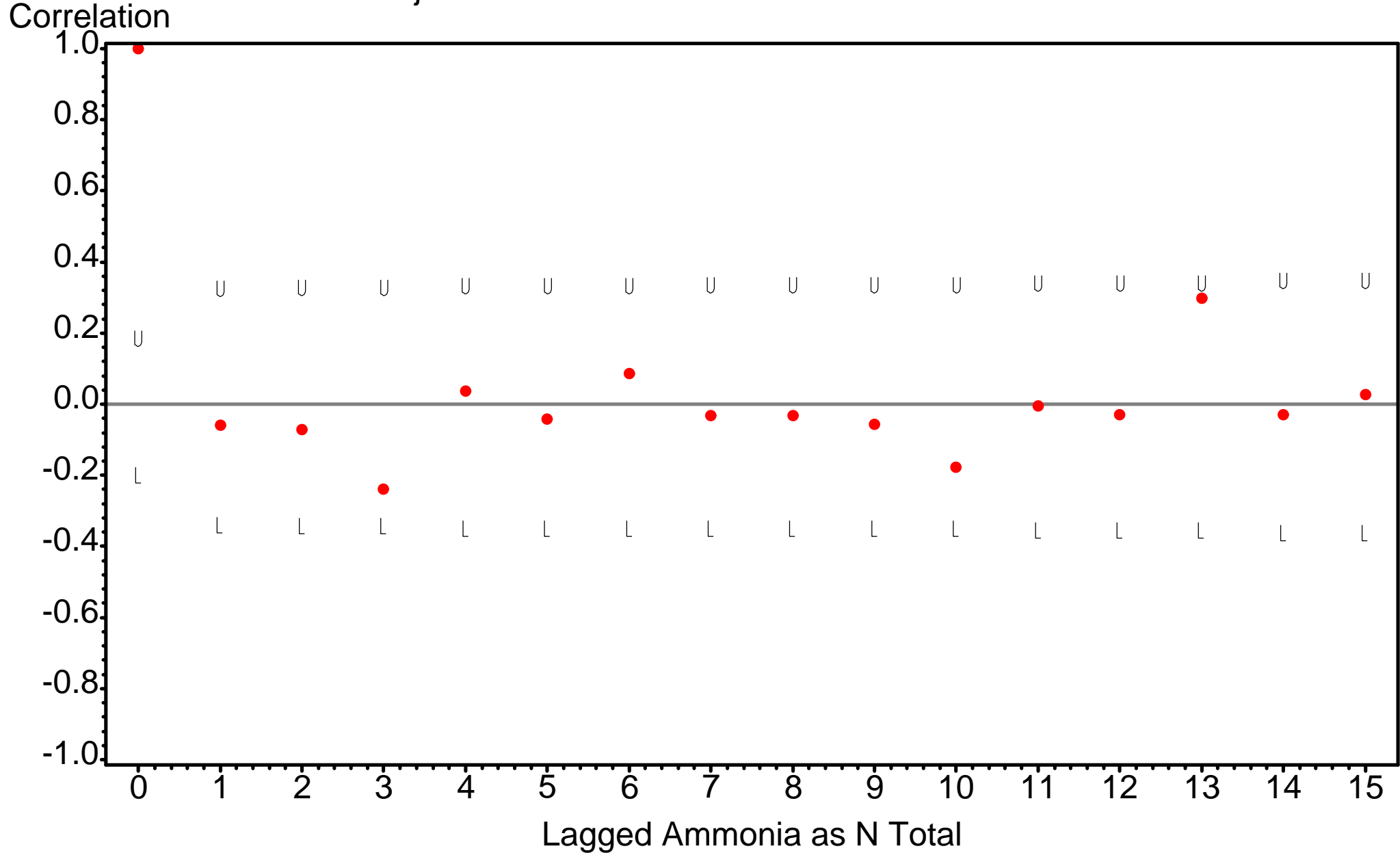
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.018797	0.86636	0.87414	0

Dona and Roberts Bay Trends Appendix - Display 439
Autocorrelation Statistics for Surface Ammonia as N Total in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.060	0.167	0.333	-0.333
2	-0.072	0.167	0.334	-0.334
3	-0.238	0.167	0.334	-0.334
4	0.036	0.170	0.341	-0.341
5	-0.041	0.170	0.341	-0.341
6	0.087	0.170	0.341	-0.341
7	-0.032	0.171	0.342	-0.342
8	-0.033	0.171	0.342	-0.342
9	-0.057	0.171	0.342	-0.342
10	-0.178	0.171	0.342	-0.342
11	-0.005	0.173	0.346	-0.346
12	-0.030	0.173	0.346	-0.346
13	0.298	0.173	0.346	-0.346
14	-0.030	0.178	0.355	-0.355
15	0.026	0.178	0.355	-0.355

Dona and Roberts Bay Trends Appendix - Display 440

Correlogram for Surface Ammonia as N Total in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

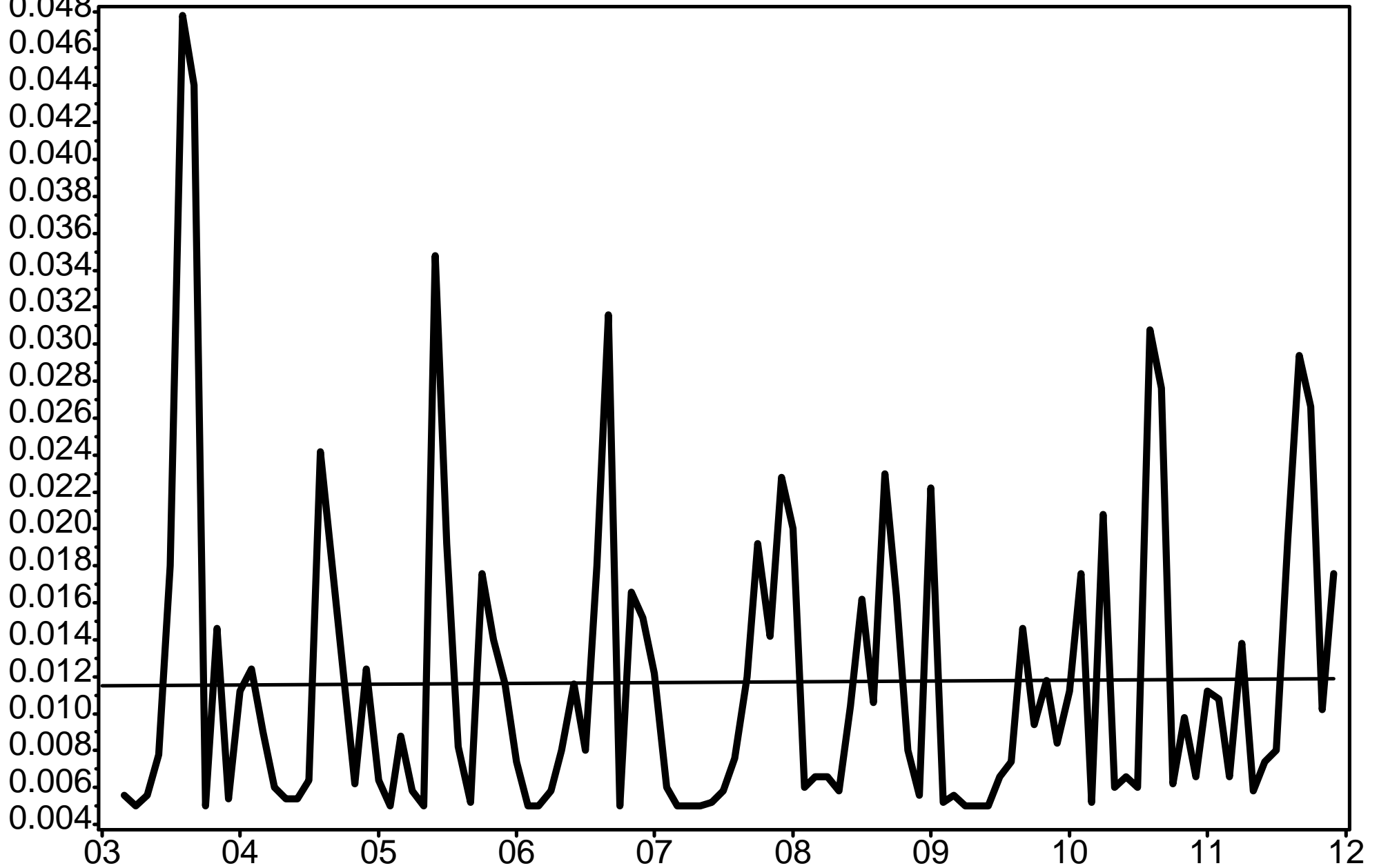
Dona and Roberts Bay Trends Appendix - Display 441

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

NO23_mgl
(mg/l)



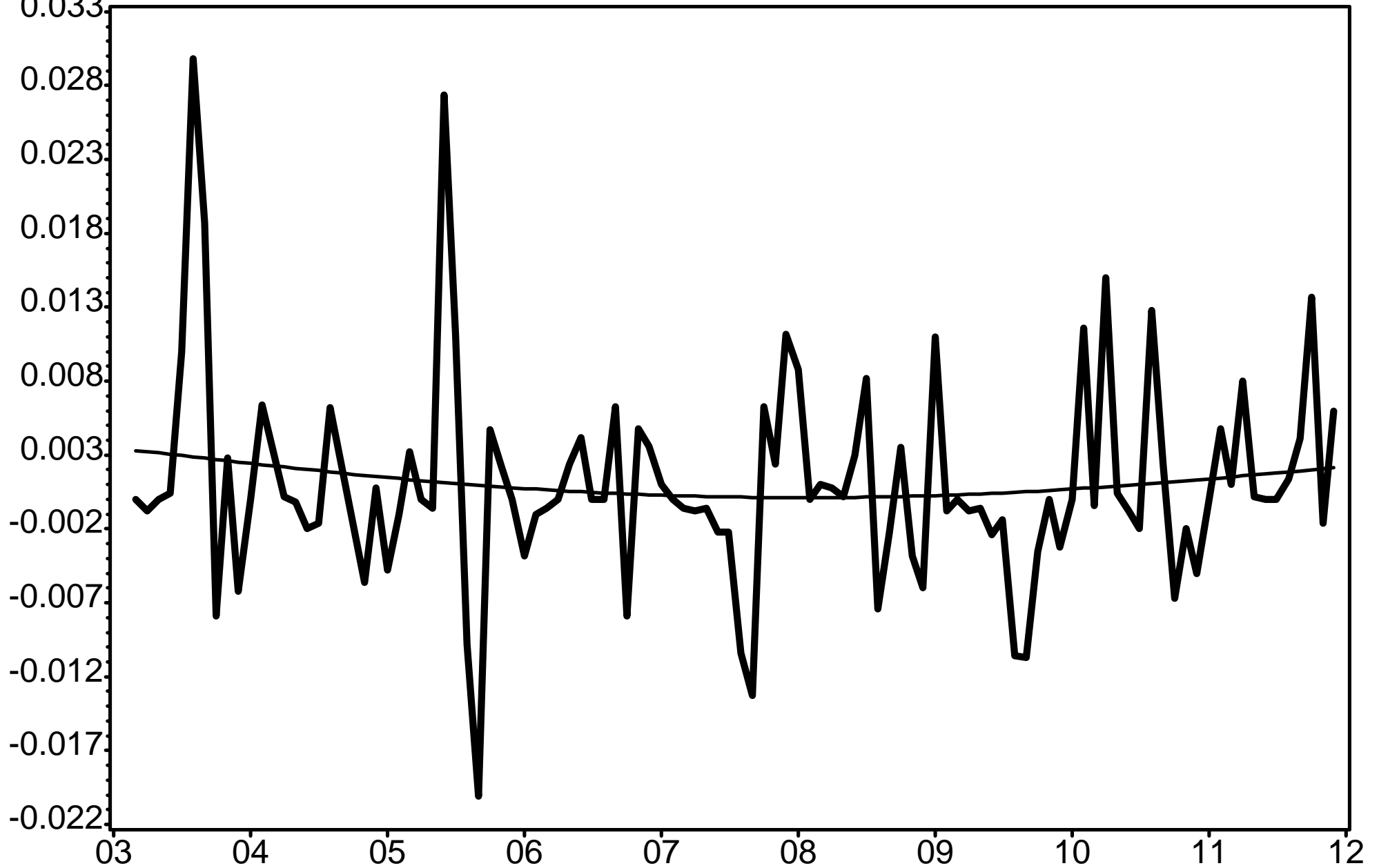
Dona and Roberts Bay Trends Appendix - Display 442

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

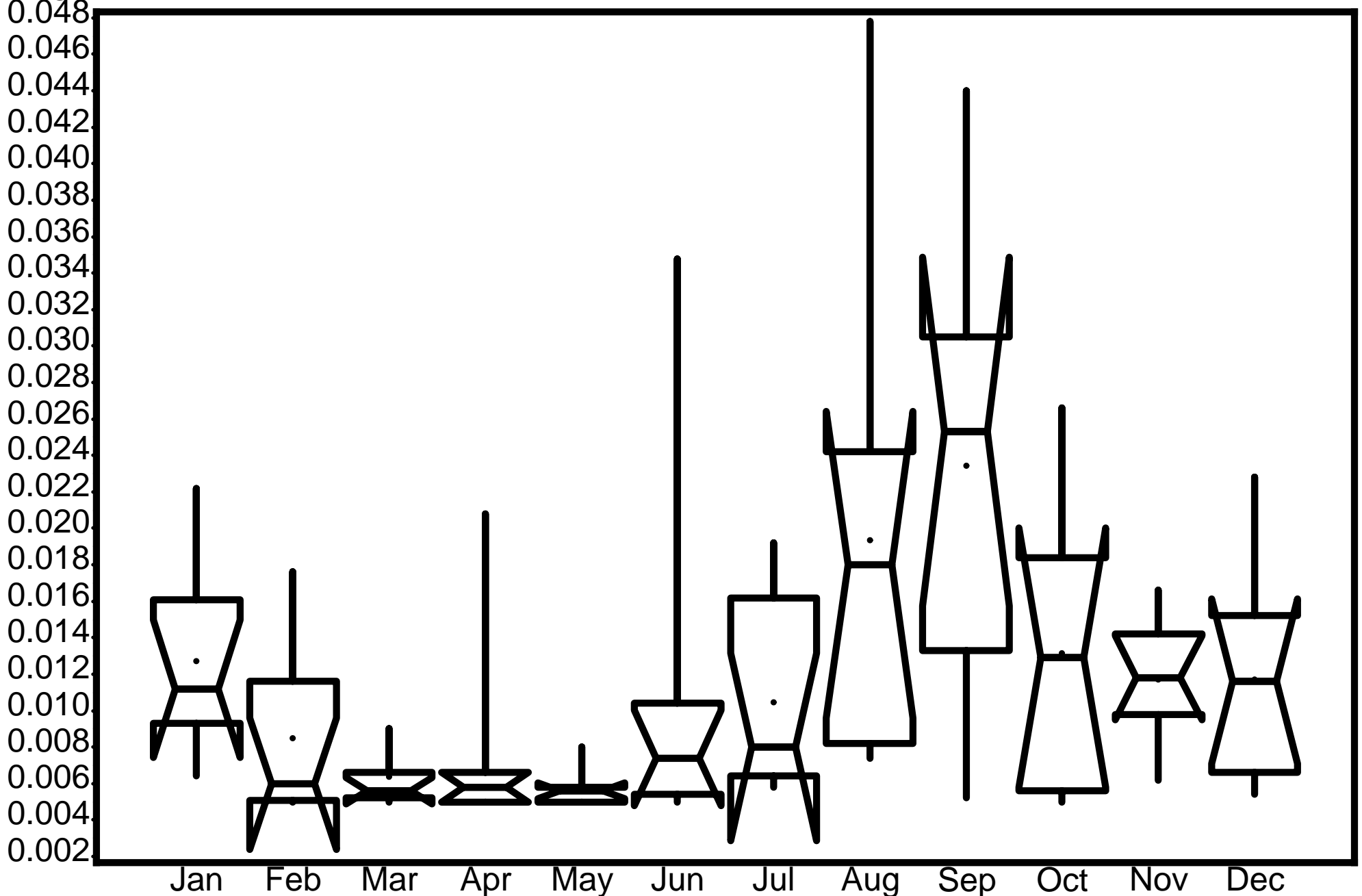


Dona and Roberts Bay Trends Appendix - Display 443

Seasonal Univariate Statistics

NO23_mgl for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay

(mg/l)



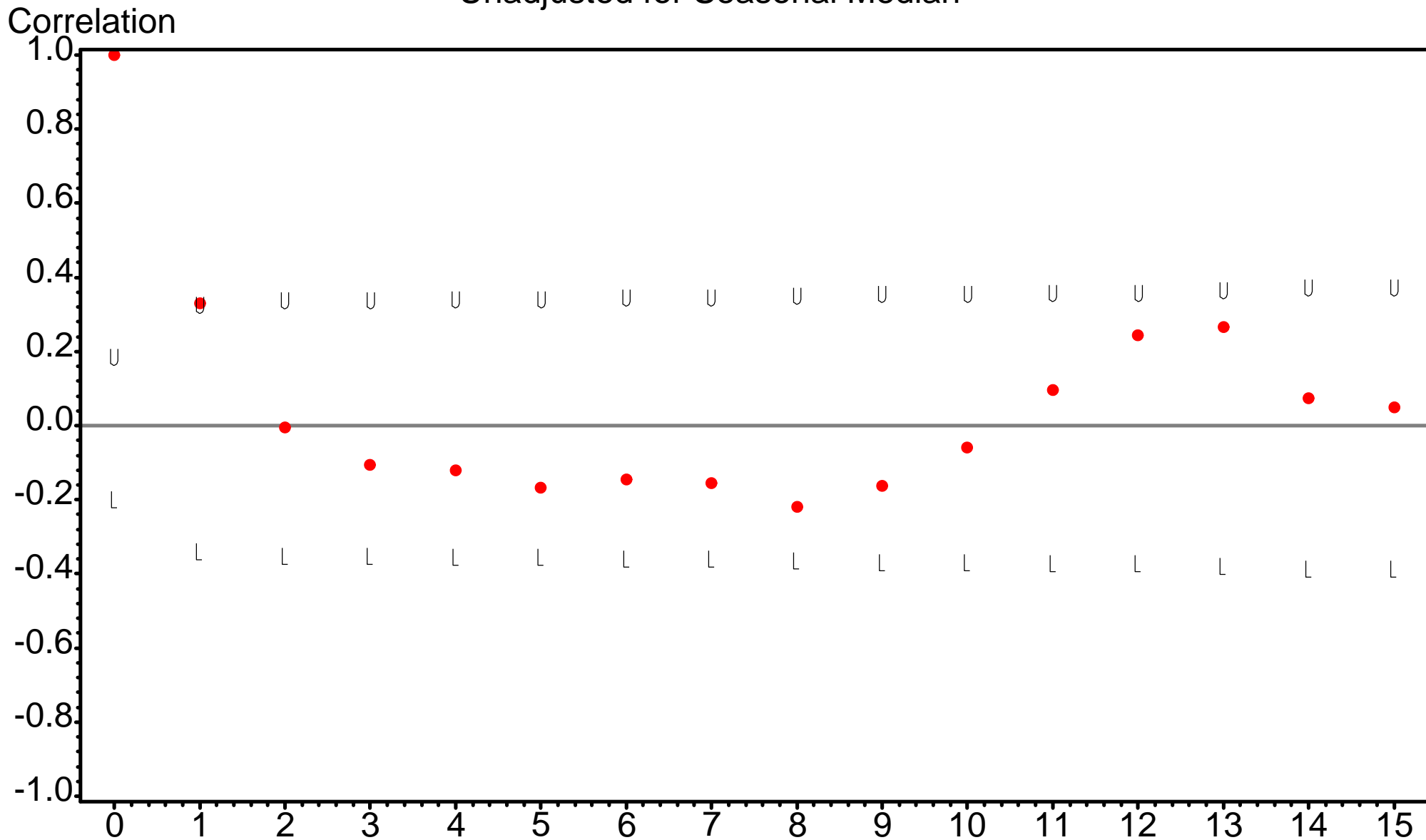
Dona and Roberts Bay Trends Appendix - Display 444

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.330	0.167	0.333	-0.333
2	-0.005	0.173	0.345	-0.345
3	-0.107	0.173	0.345	-0.345
4	-0.120	0.173	0.346	-0.346
5	-0.167	0.174	0.348	-0.348
6	-0.144	0.175	0.351	-0.351
7	-0.155	0.177	0.353	-0.353
8	-0.219	0.178	0.356	-0.356
9	-0.163	0.180	0.361	-0.361
10	-0.059	0.182	0.363	-0.363
11	0.095	0.182	0.364	-0.364
12	0.244	0.182	0.365	-0.365
13	0.265	0.185	0.371	-0.371
14	0.075	0.189	0.378	-0.378
15	0.050	0.189	0.378	-0.378

Dona and Roberts Bay Trends Appendix - Display 445

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 446
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.104	0.117	0.117	0

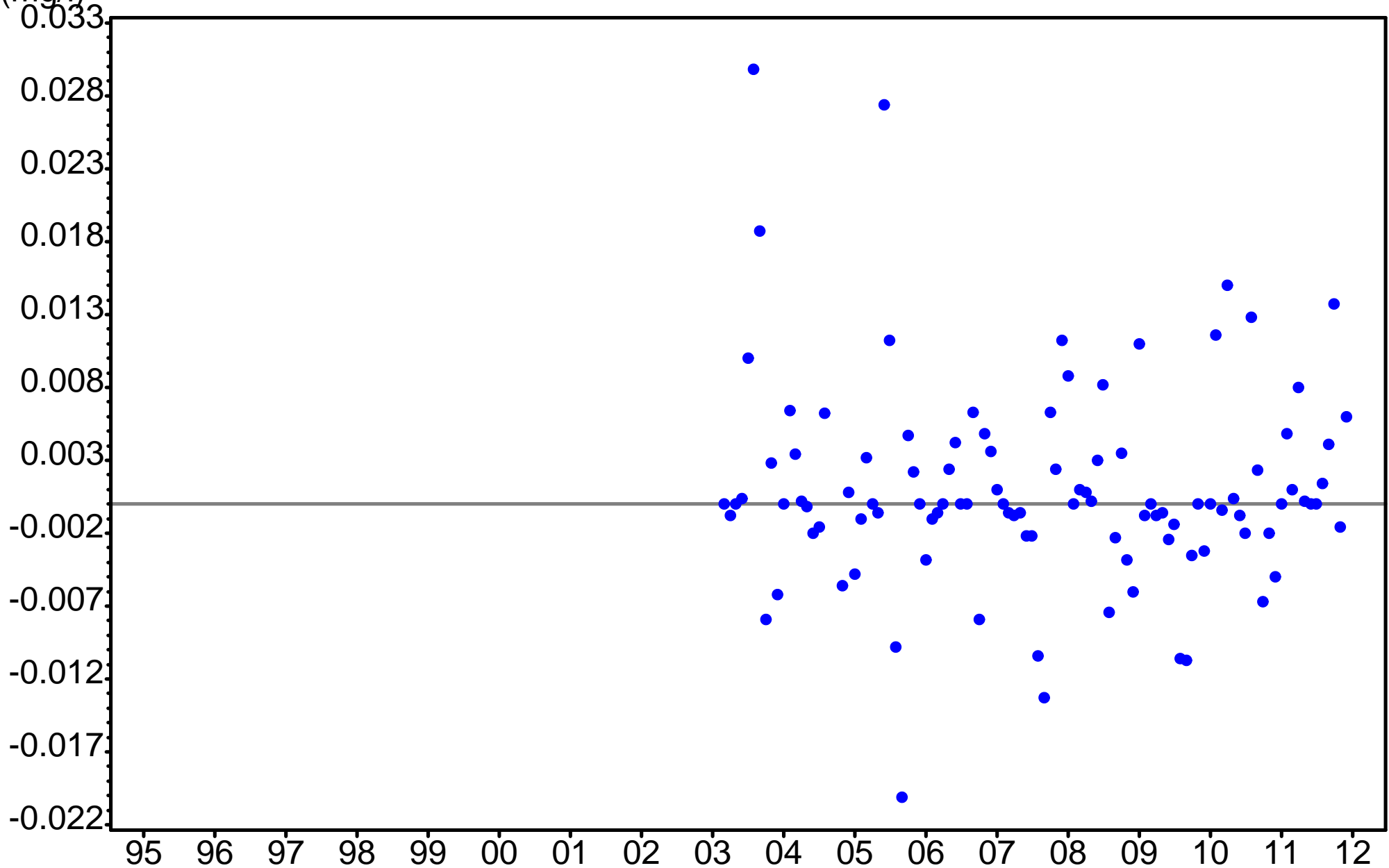
Dona and Roberts Bay Trends Appendix - Display 447
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.0275	0.74434	0.75736	0

Dona and Roberts Bay Trends Appendix - Display 448

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted
(mg/l)

Dona and Roberts Bay



Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 449

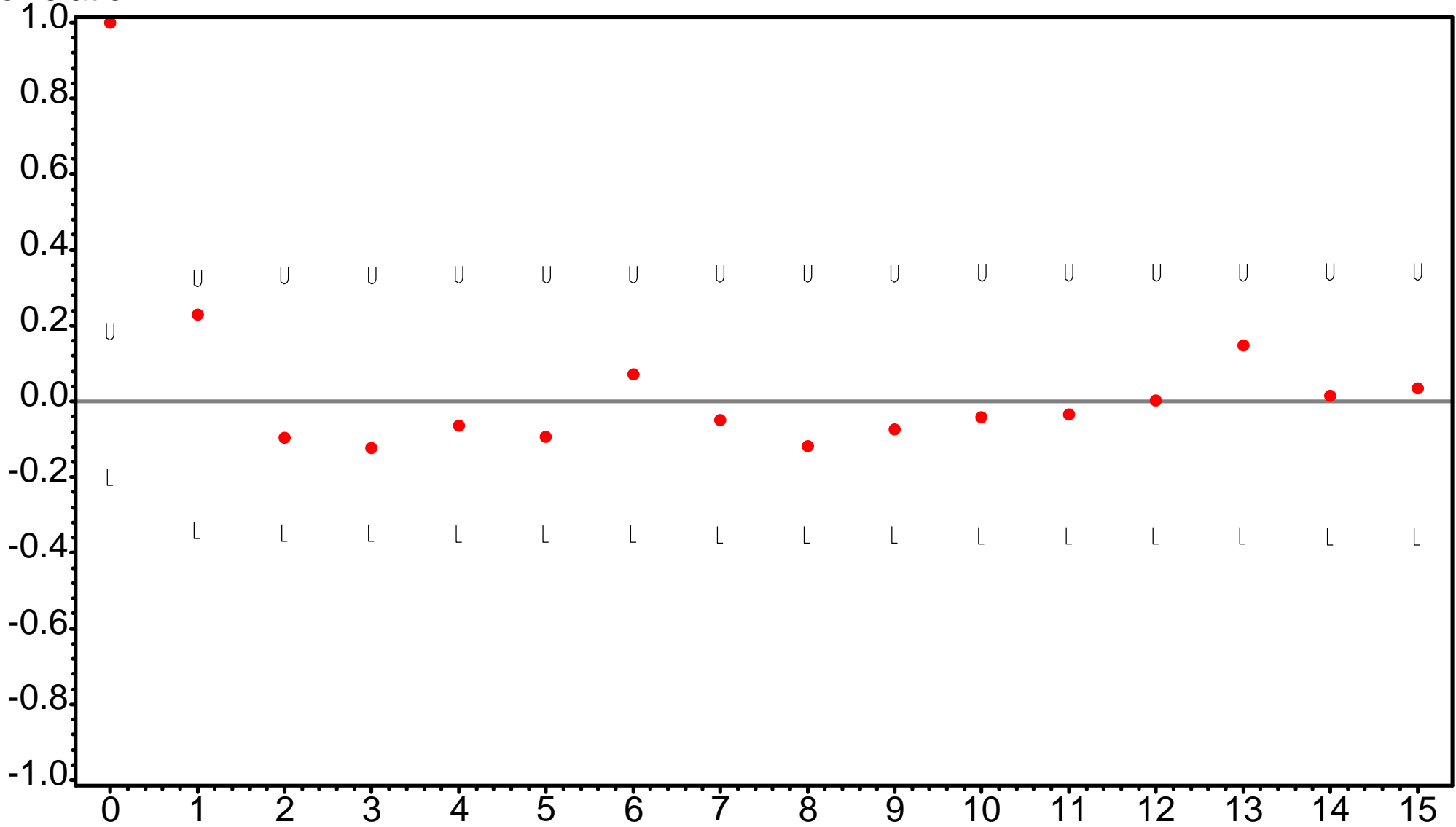
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.229	0.167	0.333	-0.333
2	-0.096	0.170	0.339	-0.339
3	-0.122	0.170	0.340	-0.340
4	-0.064	0.171	0.342	-0.342
5	-0.094	0.171	0.342	-0.342
6	0.071	0.172	0.343	-0.343
7	-0.050	0.172	0.344	-0.344
8	-0.117	0.172	0.344	-0.344
9	-0.075	0.173	0.345	-0.345
10	-0.043	0.173	0.346	-0.346
11	-0.034	0.173	0.346	-0.346
12	0.002	0.173	0.346	-0.346
13	0.148	0.173	0.346	-0.346
14	0.016	0.174	0.349	-0.349
15	0.034	0.174	0.349	-0.349

Dona and Roberts Bay Trends Appendix - Display 450

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

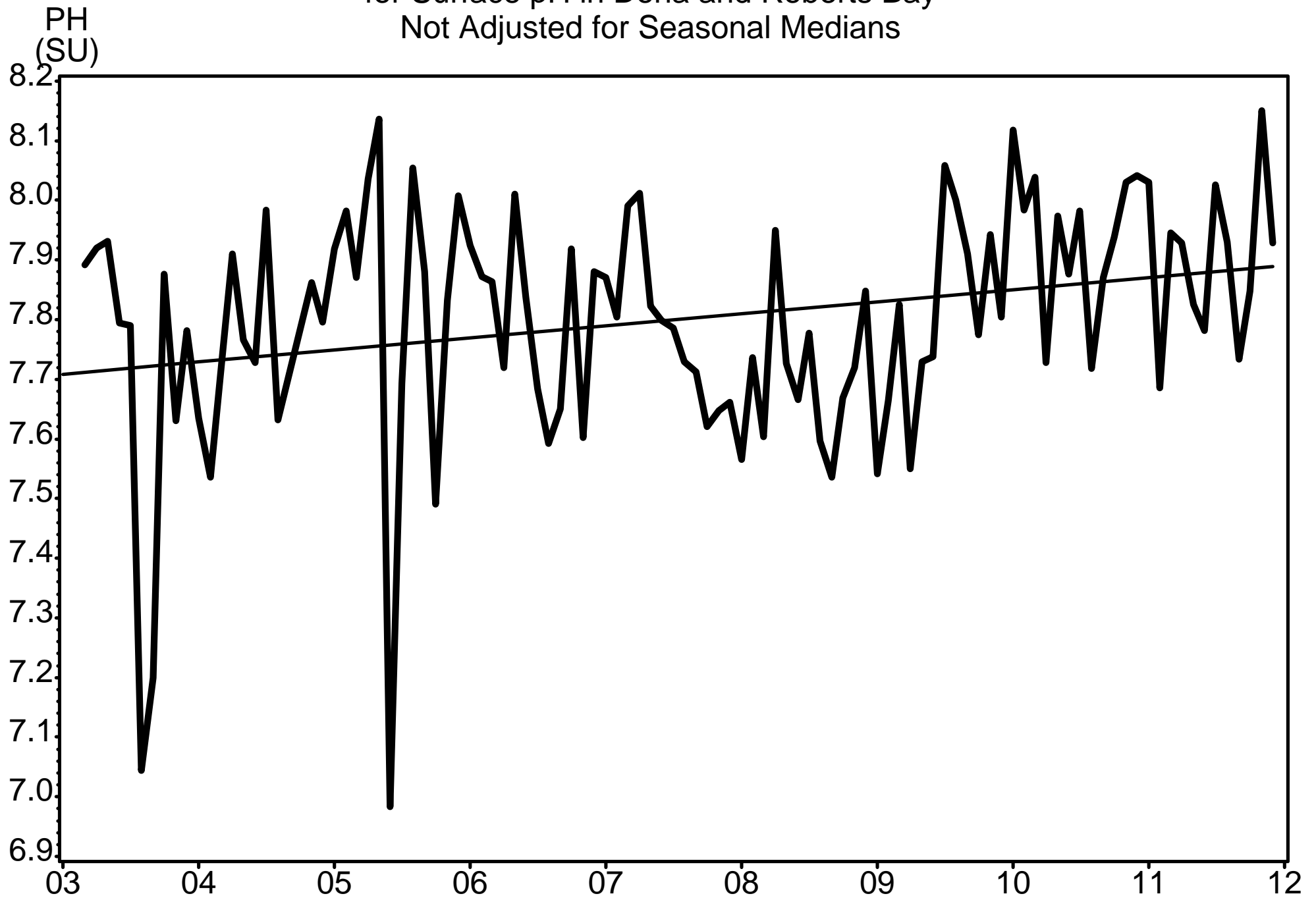
Correlation



Lagged Nitrate+Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 451

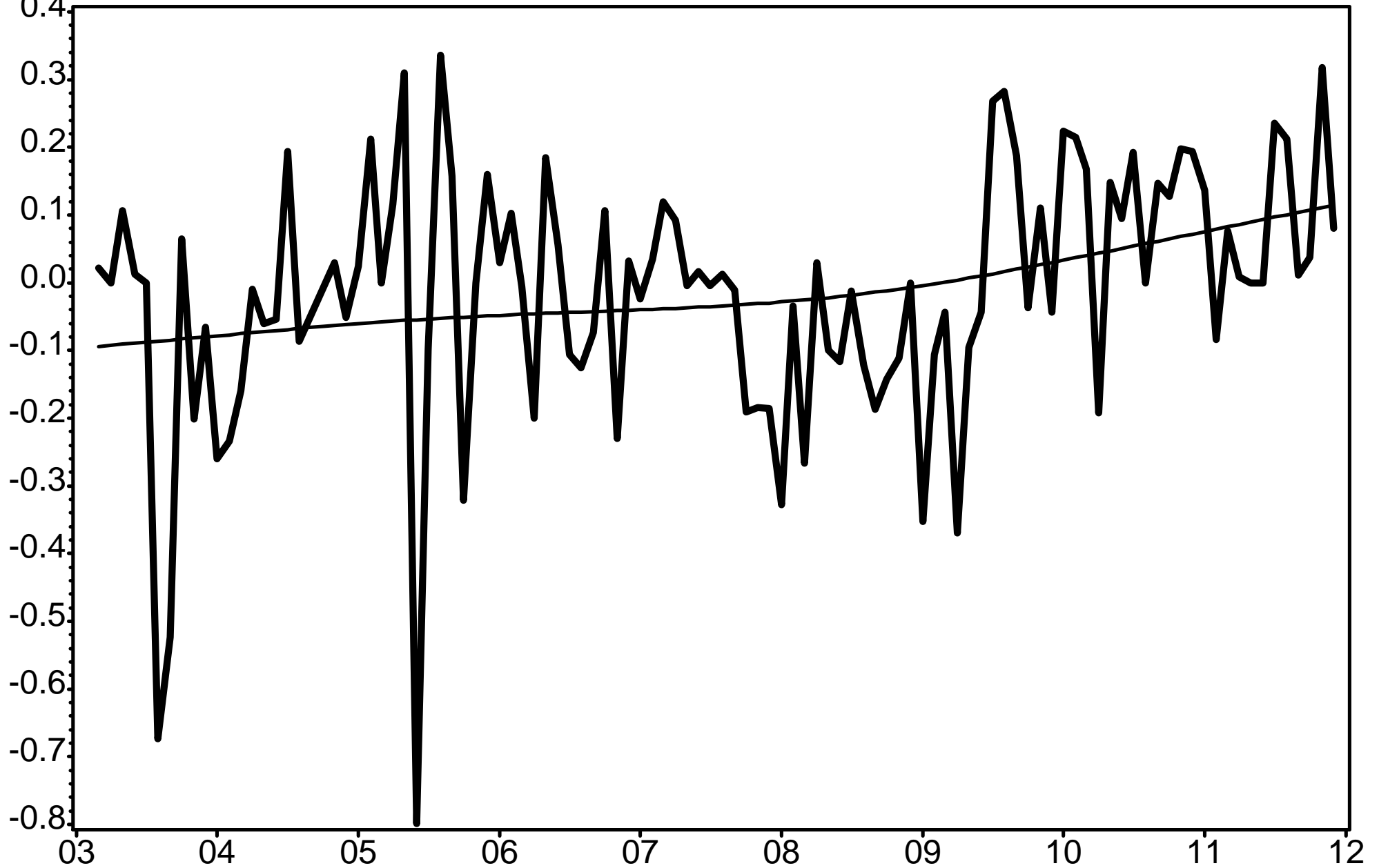
Monthly Data Time Series
for Surface pH in Dona and Roberts Bay
Not Adjusted for Seasonal Medians



Dona and Roberts Bay Trends Appendix - Display 452

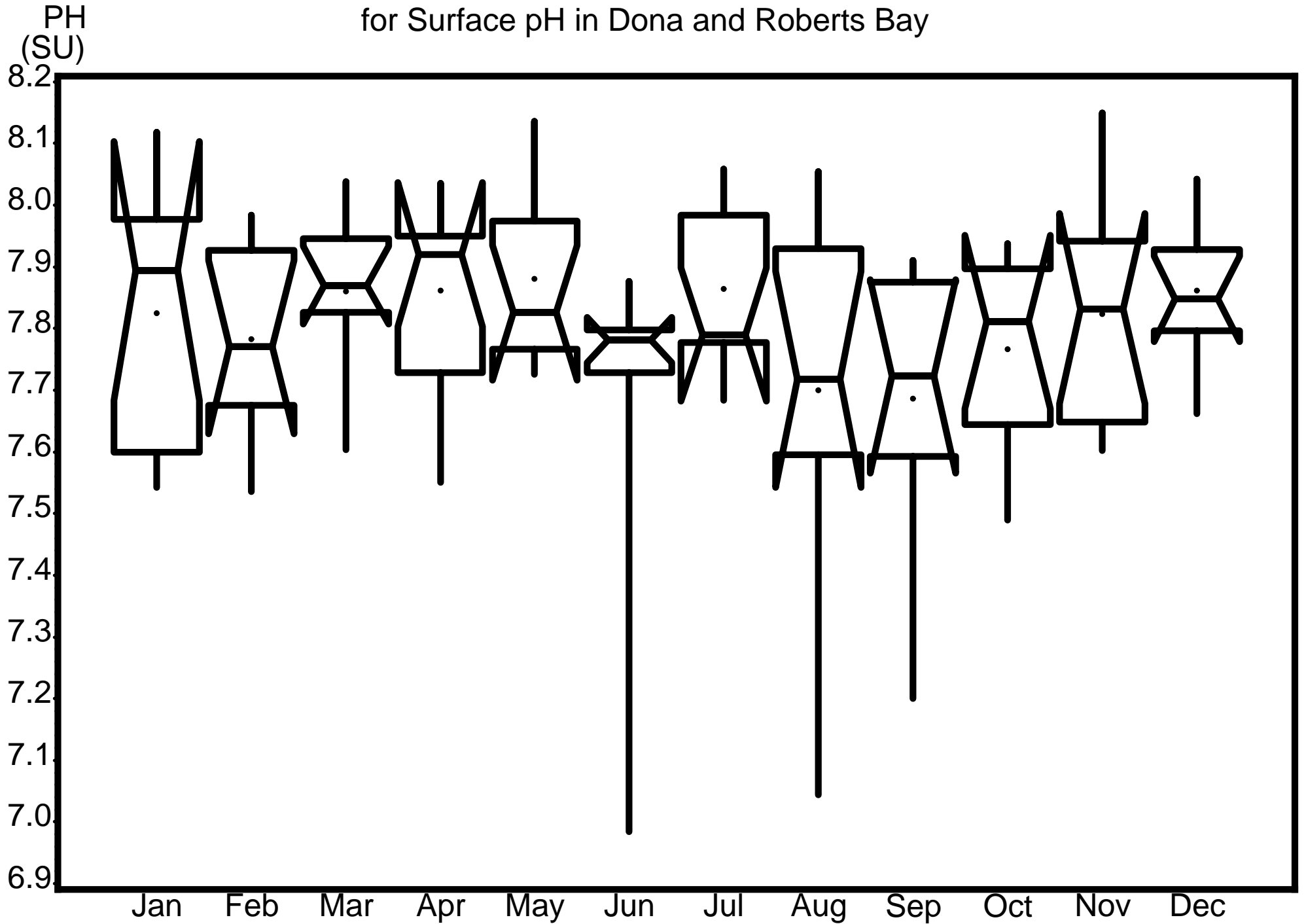
Monthly Data Time Series
for Surface pH in Dona and Roberts Bay
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Dona and Roberts Bay Trends Appendix - Display 453

Seasonal Univariate Statistics for Surface pH in Dona and Roberts Bay

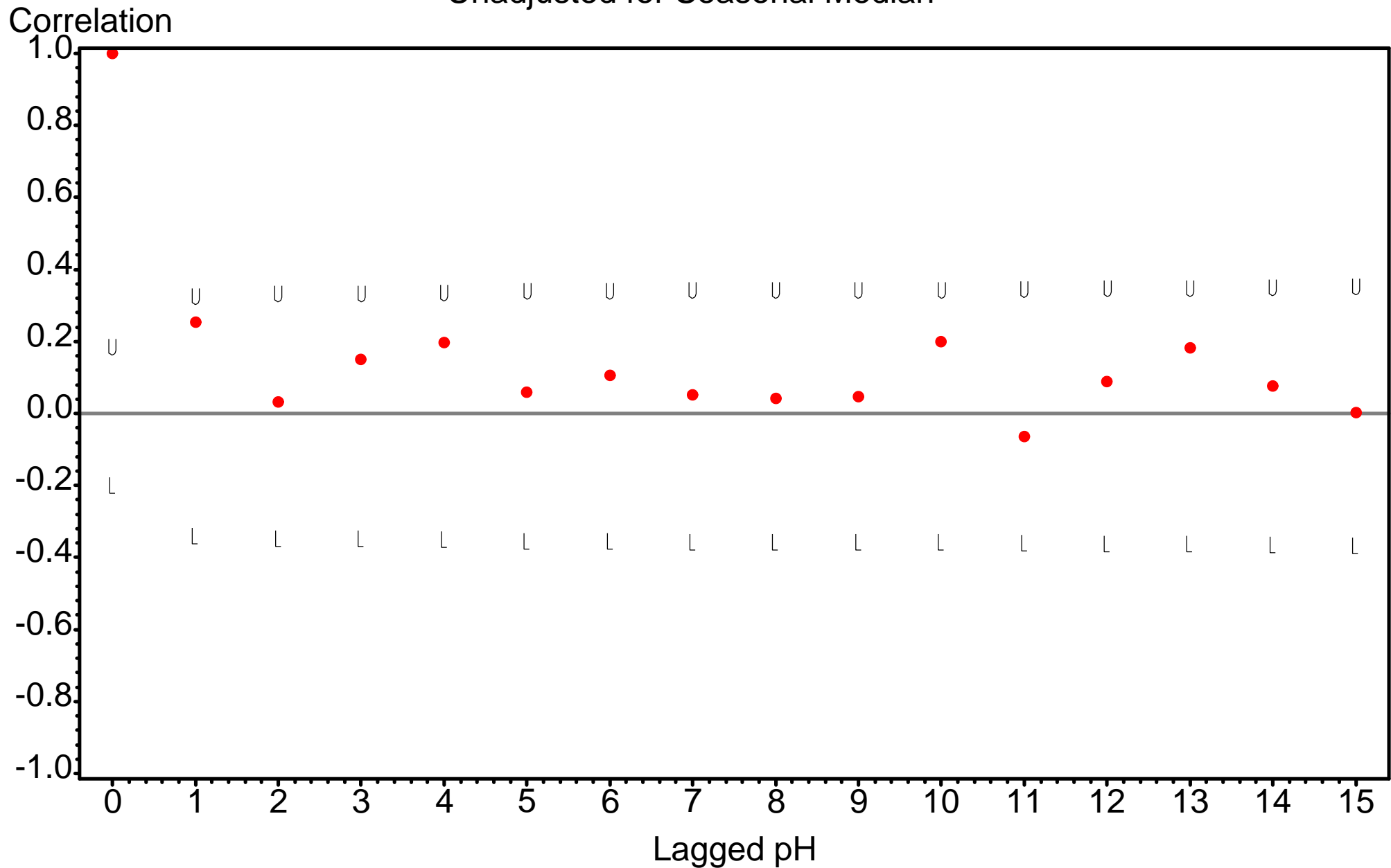


Dona and Roberts Bay Trends Appendix - Display 454
Autocorrelation Statistics for Surface pH in Dona and Roberts Bay

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.253	0.167	0.333	-0.333
2	0.032	0.170	0.340	-0.340
3	0.149	0.170	0.340	-0.340
4	0.198	0.171	0.343	-0.343
5	0.059	0.174	0.347	-0.347
6	0.105	0.174	0.347	-0.347
7	0.051	0.174	0.349	-0.349
8	0.042	0.174	0.349	-0.349
9	0.046	0.175	0.349	-0.349
10	0.200	0.175	0.349	-0.349
11	-0.064	0.177	0.353	-0.353
12	0.089	0.177	0.354	-0.354
13	0.182	0.177	0.355	-0.355
14	0.077	0.179	0.358	-0.358
15	0.003	0.179	0.359	-0.359

Dona and Roberts Bay Trends Appendix - Display 455

Correlogram for Surface pH in Dona and Roberts Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 456
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.136	0.041	0.041	0.013

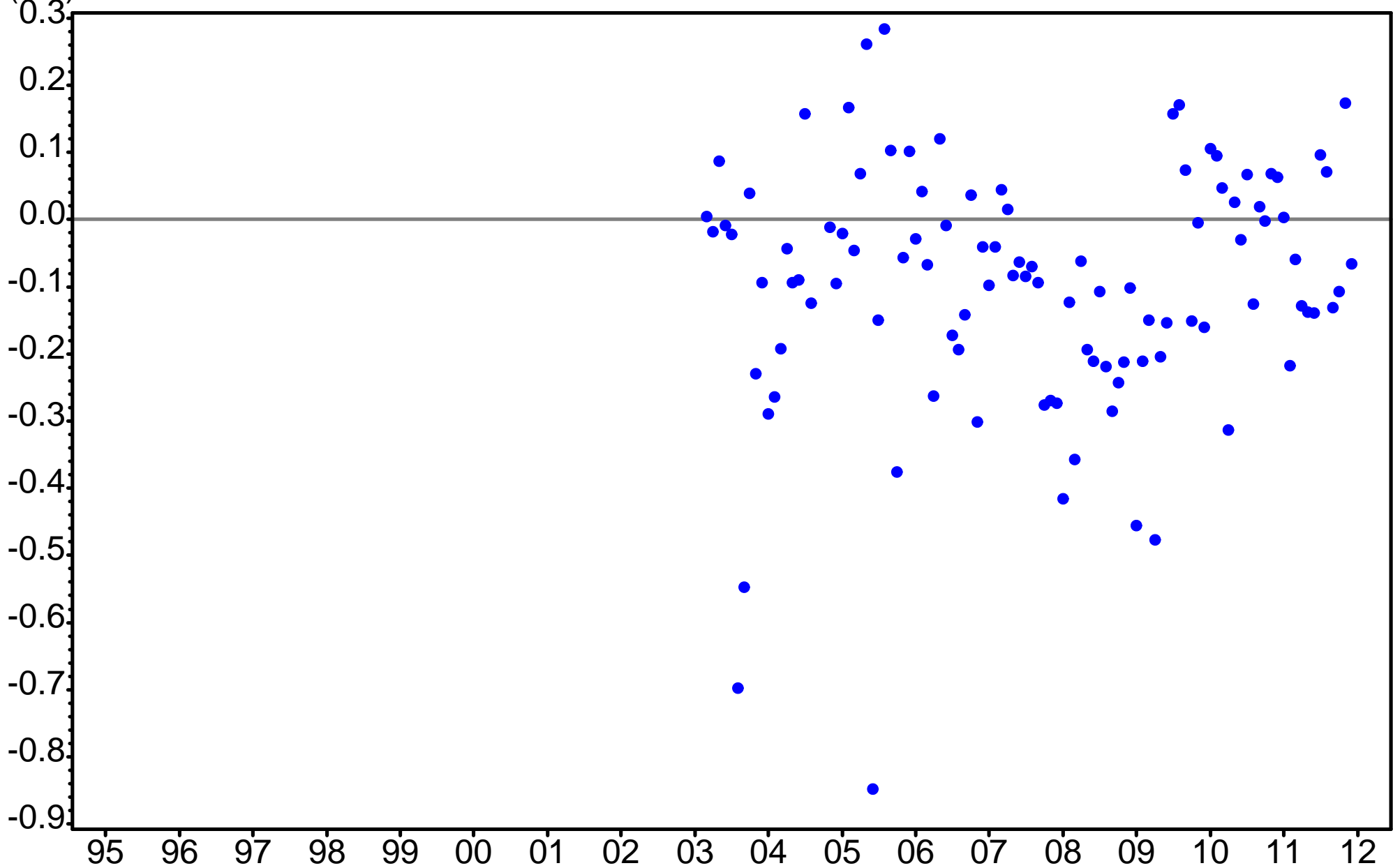
Dona and Roberts Bay Trends Appendix - Display 457
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.18	0.024563	0.18070	0.014733

Dona and Roberts Bay Trends Appendix - Display 458

Time Series Plot of Surface pH Data Adjusted for Season and Detrended Dona and Roberts Bay

Adjusted
(SU)



Zero Reference Line Shown

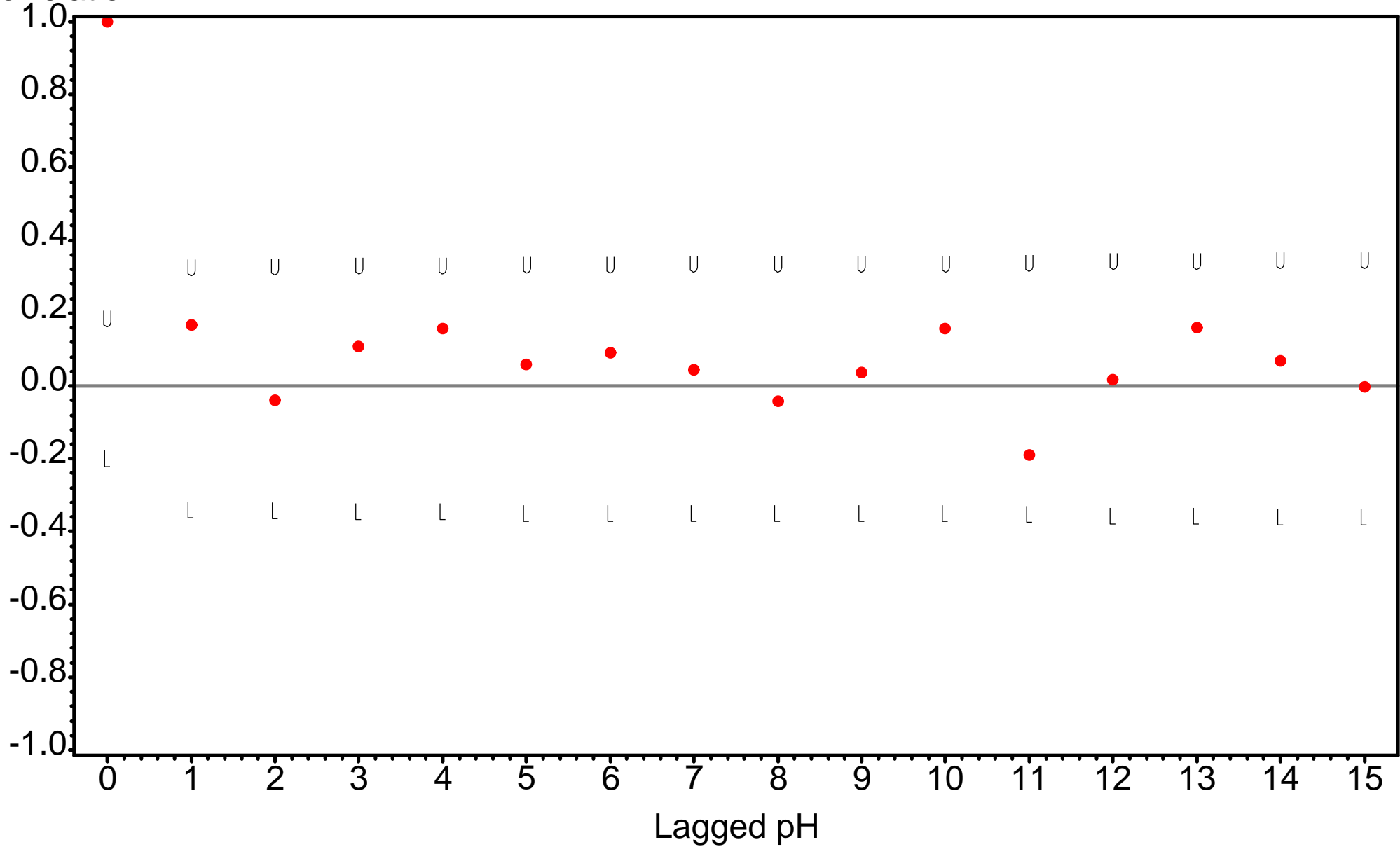
Dona and Roberts Bay Trends Appendix - Display 459
Autocorrelation Statistics for Surface pH in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.167	0.167	0.333	-0.333
2	-0.040	0.168	0.336	-0.336
3	0.108	0.168	0.337	-0.337
4	0.157	0.169	0.338	-0.338
5	0.058	0.170	0.341	-0.341
6	0.090	0.170	0.341	-0.341
7	0.044	0.171	0.342	-0.342
8	-0.042	0.171	0.342	-0.342
9	0.036	0.171	0.342	-0.342
10	0.157	0.171	0.342	-0.342
11	-0.189	0.172	0.345	-0.345
12	0.018	0.174	0.349	-0.349
13	0.161	0.174	0.349	-0.349
14	0.068	0.176	0.352	-0.352
15	-0.003	0.176	0.352	-0.352

Dona and Roberts Bay Trends Appendix - Display 460

Correlogram for Surface pH in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

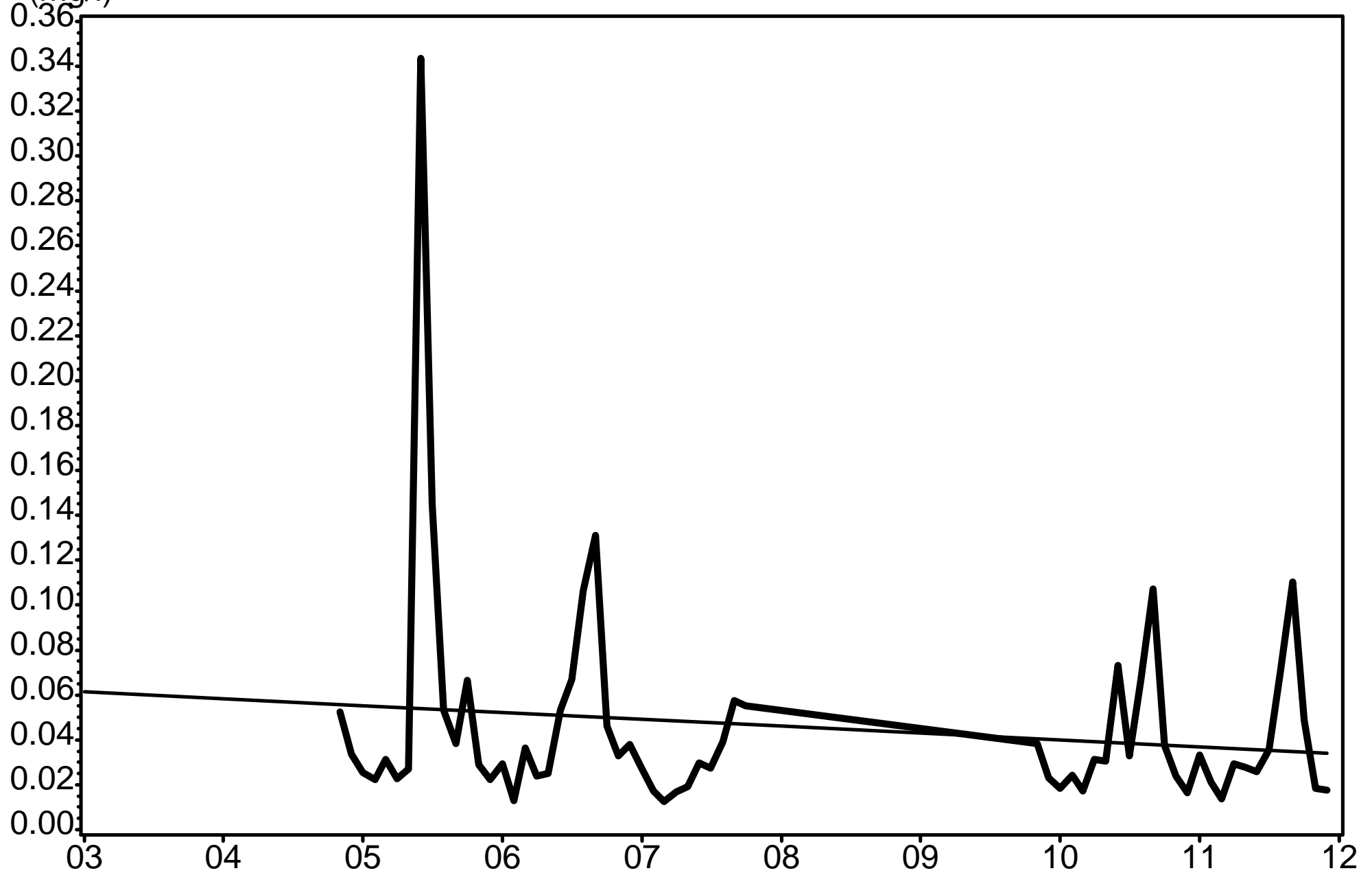
Dona and Roberts Bay Trends Appendix - Display 461

Monthly Data Time Series

for Surface Orthophosphate (as P) in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

PO4_mgl
(mg/l)



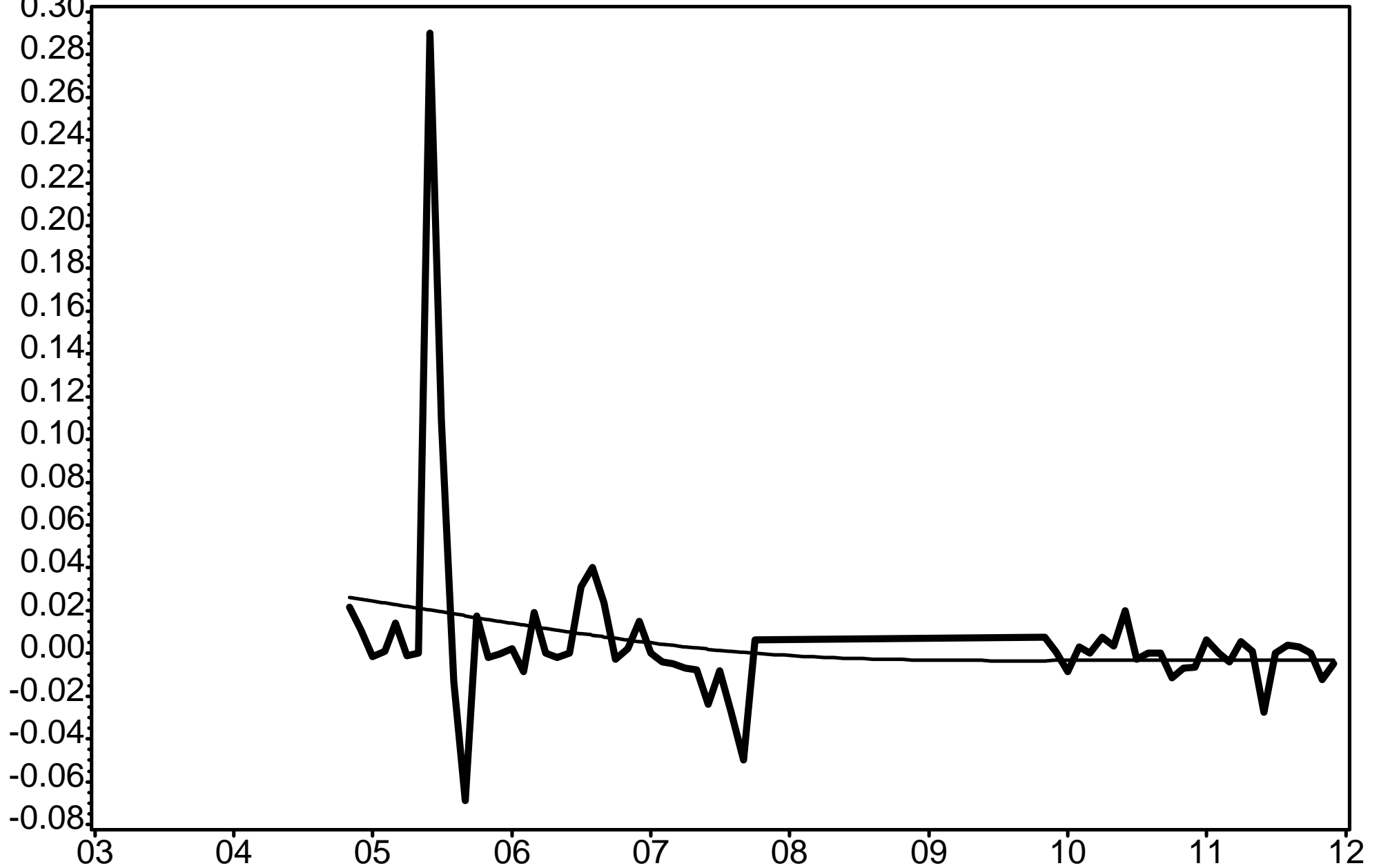
Dona and Roberts Bay Trends Appendix - Display 462

Monthly Data Time Series

for Surface Orthophosphate (as P) in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

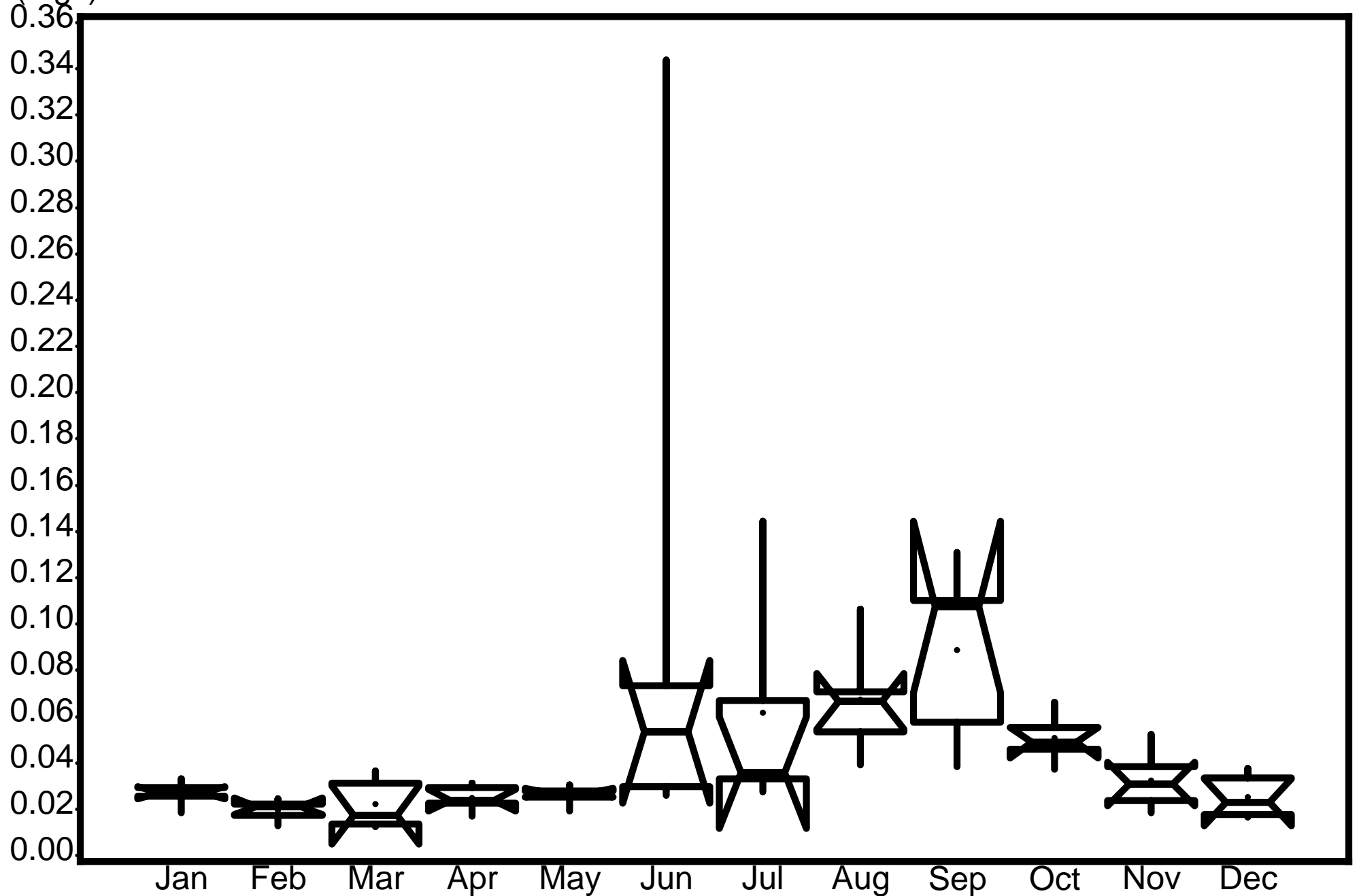


Dona and Roberts Bay Trends Appendix - Display 463

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Dona and Roberts Bay

PO4_mgl
(mg/l)



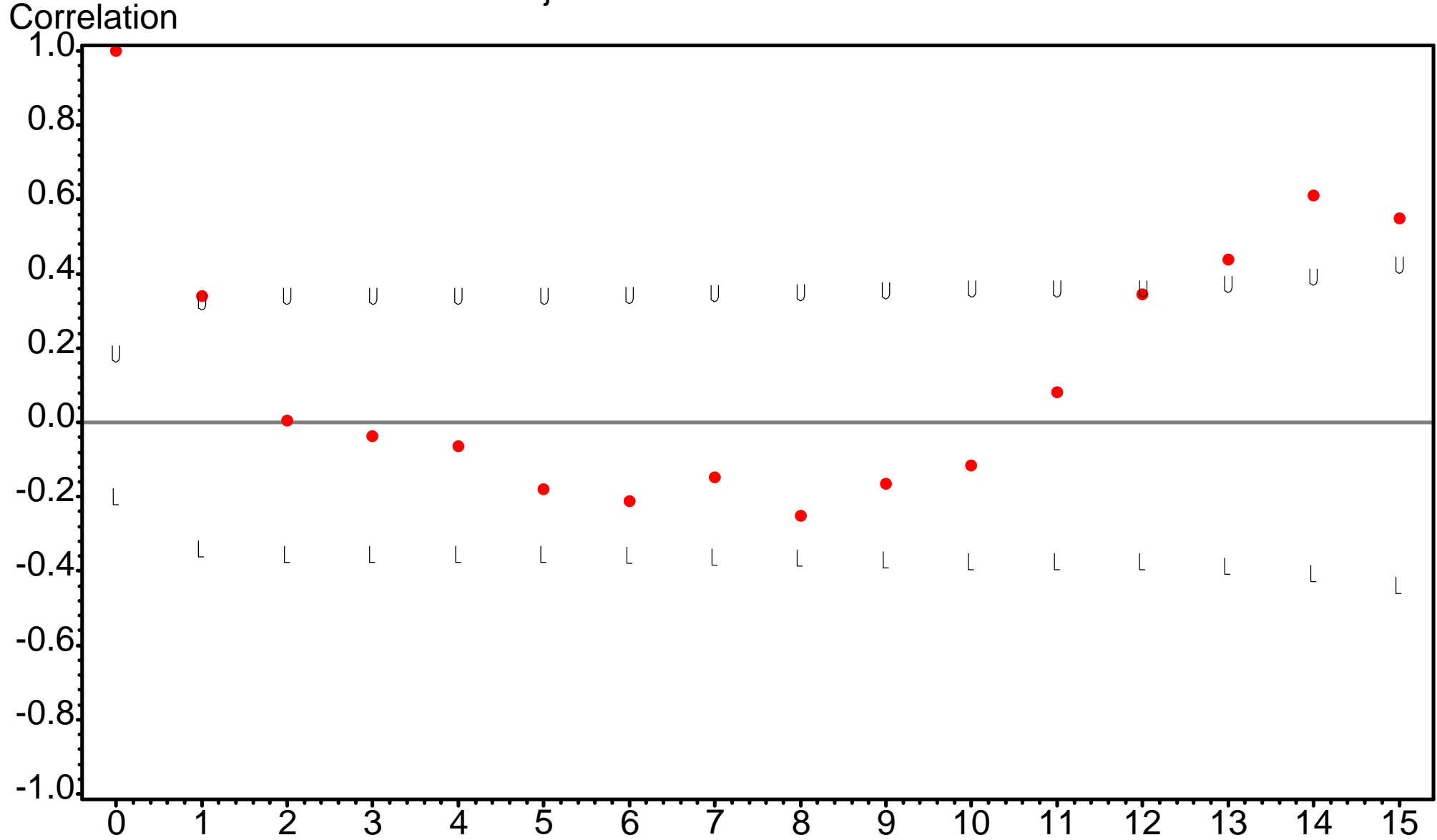
Dona and Roberts Bay Trends Appendix - Display 464
Autocorrelation Statistics for Surface Orthophosphate (as P) in Dona and Roberts Bay

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.339	0.167	0.333	-0.333
2	0.004	0.173	0.346	-0.346
3	-0.038	0.173	0.346	-0.346
4	-0.063	0.173	0.346	-0.346
5	-0.179	0.173	0.346	-0.346
6	-0.211	0.175	0.350	-0.350
7	-0.147	0.177	0.355	-0.355
8	-0.250	0.178	0.357	-0.357
9	-0.164	0.182	0.363	-0.363
10	-0.115	0.183	0.366	-0.366
11	0.082	0.184	0.367	-0.367
12	0.344	0.184	0.368	-0.368
13	0.438	0.190	0.380	-0.380
14	0.611	0.199	0.398	-0.398
15	0.549	0.216	0.431	-0.431

Dona and Roberts Bay Trends Appendix - Display 465

Correlogram for Surface Orthophosphate (as P) in Dona and Roberts Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 466
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Dona and Roberts Bay
Unadjusted for Seasonal Medians

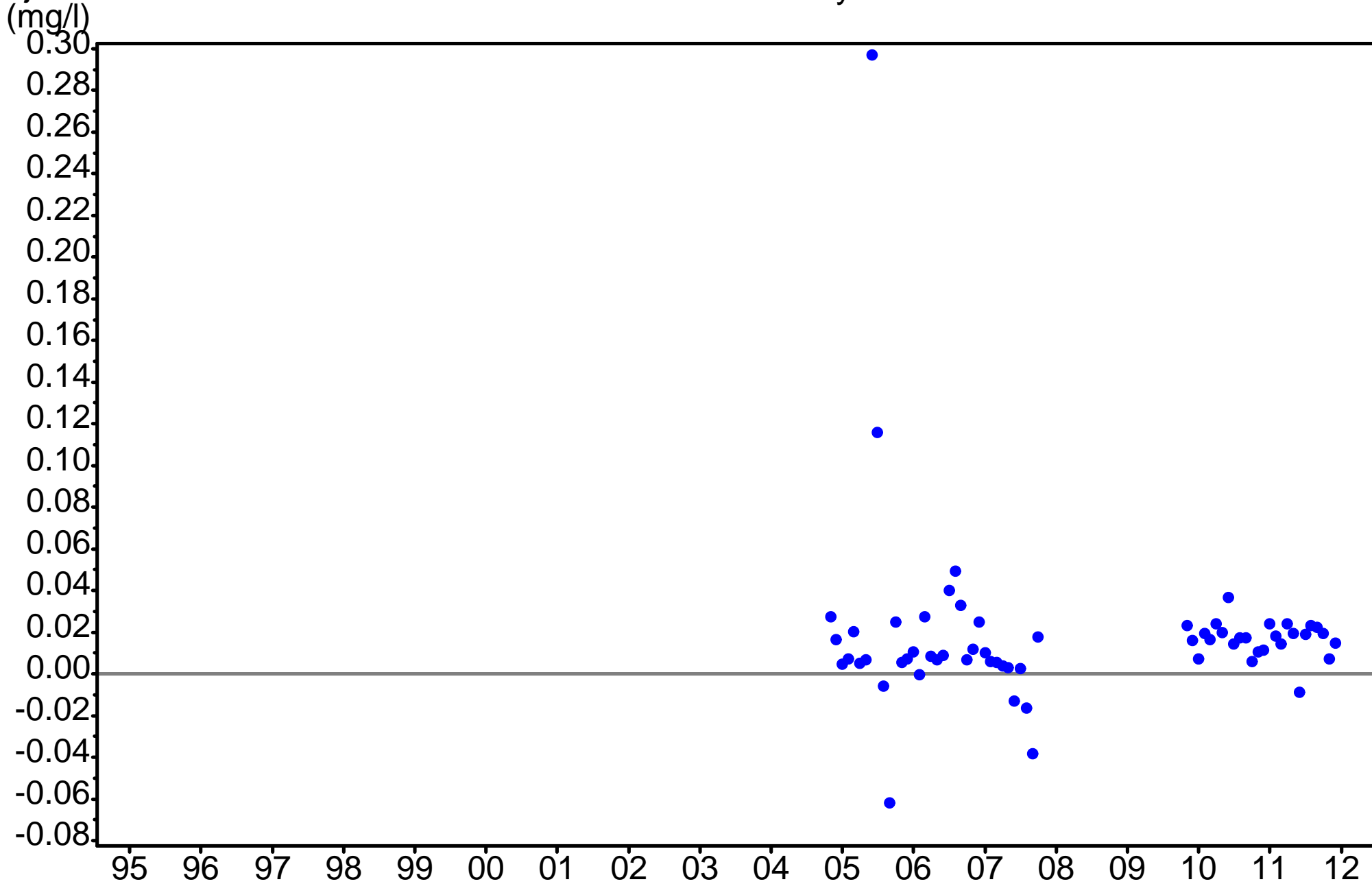
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.067	0.444	0.444	-.001

Dona and Roberts Bay Trends Appendix - Display 467
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.14615	0.22737	0.34523	-.002

Dona and Roberts Bay Trends Appendix - Display 468

Time Series Plot of Surface Orthophosphate (as P) Data Adjusted for Season and Detrended
Adjusted
Dona and Roberts Bay



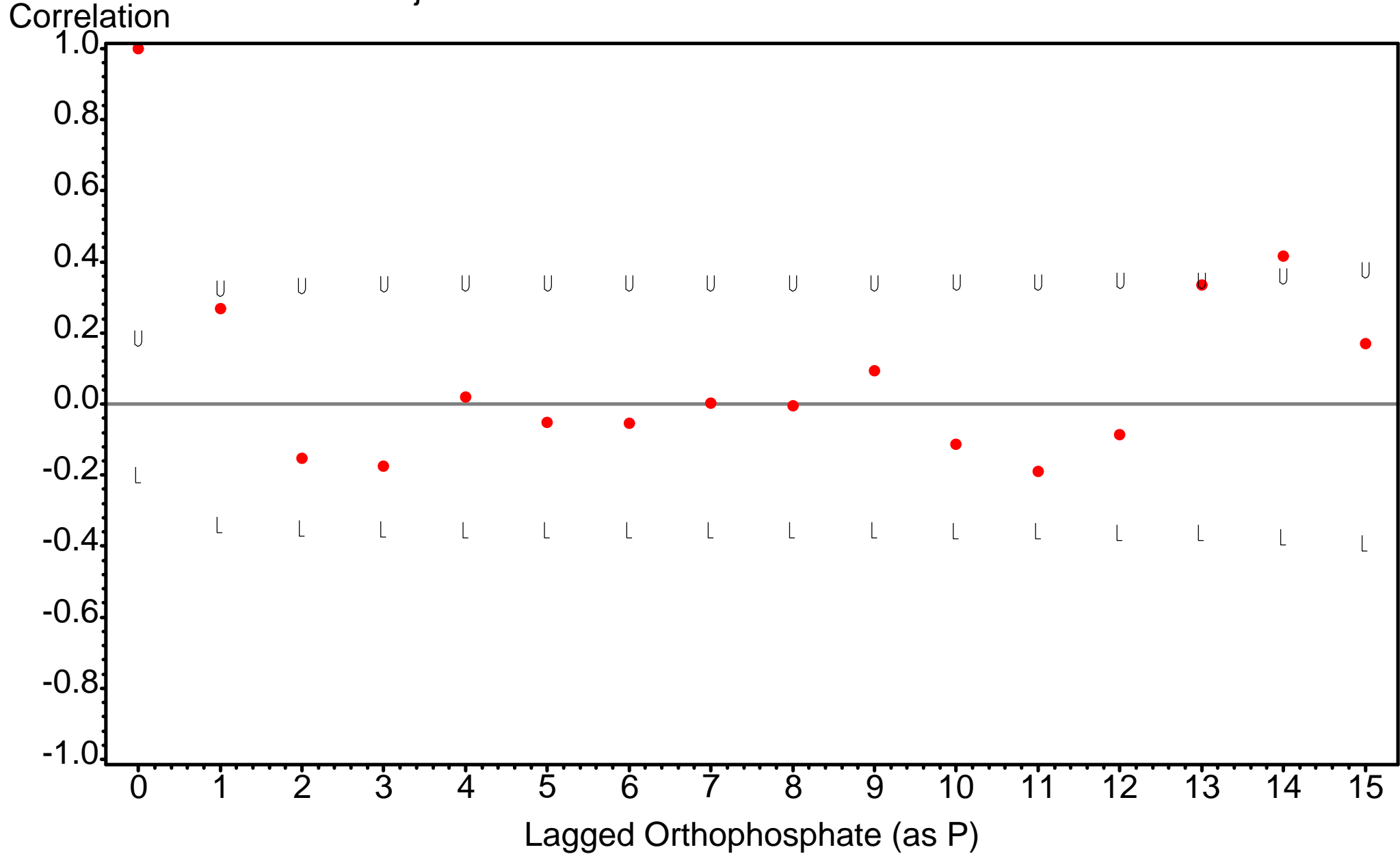
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 469
Autocorrelation Statistics for Surface Orthophosphate (as P) in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.268	0.167	0.333	-0.333
2	-0.153	0.171	0.341	-0.341
3	-0.176	0.172	0.344	-0.344
4	0.019	0.174	0.347	-0.347
5	-0.052	0.174	0.347	-0.347
6	-0.054	0.174	0.347	-0.347
7	0.003	0.174	0.348	-0.348
8	-0.005	0.174	0.348	-0.348
9	0.094	0.174	0.348	-0.348
10	-0.114	0.174	0.349	-0.349
11	-0.189	0.175	0.350	-0.350
12	-0.086	0.177	0.354	-0.354
13	0.336	0.177	0.355	-0.355
14	0.417	0.183	0.366	-0.366
15	0.170	0.192	0.383	-0.383

Dona and Roberts Bay Trends Appendix - Display 470

Correlogram for Surface Orthophosphate (as P) in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended

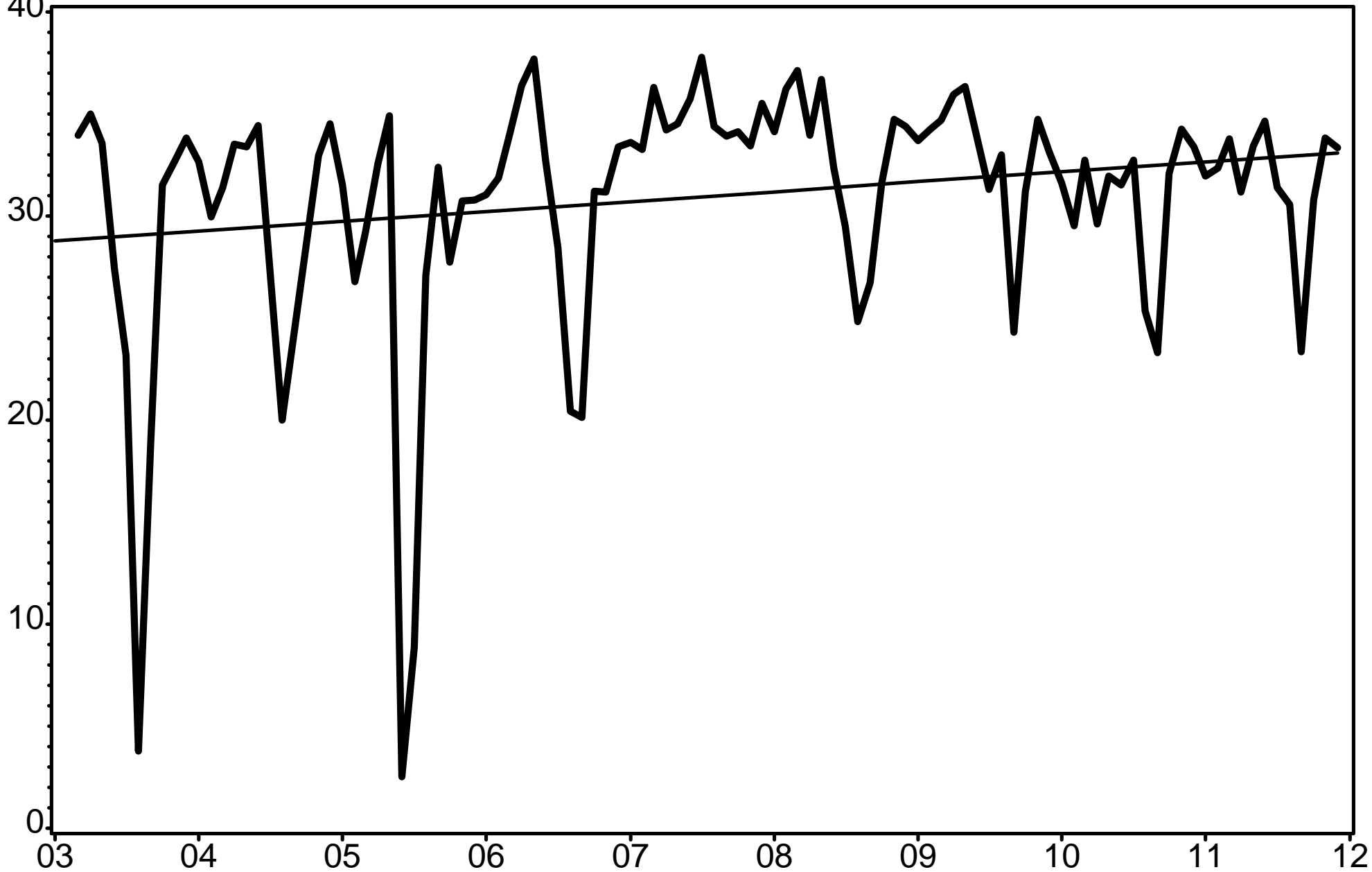


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 471

Monthly Data Time Series
for Surface Salinity in Dona and Roberts Bay
Not Adjusted for Seasonal Medians

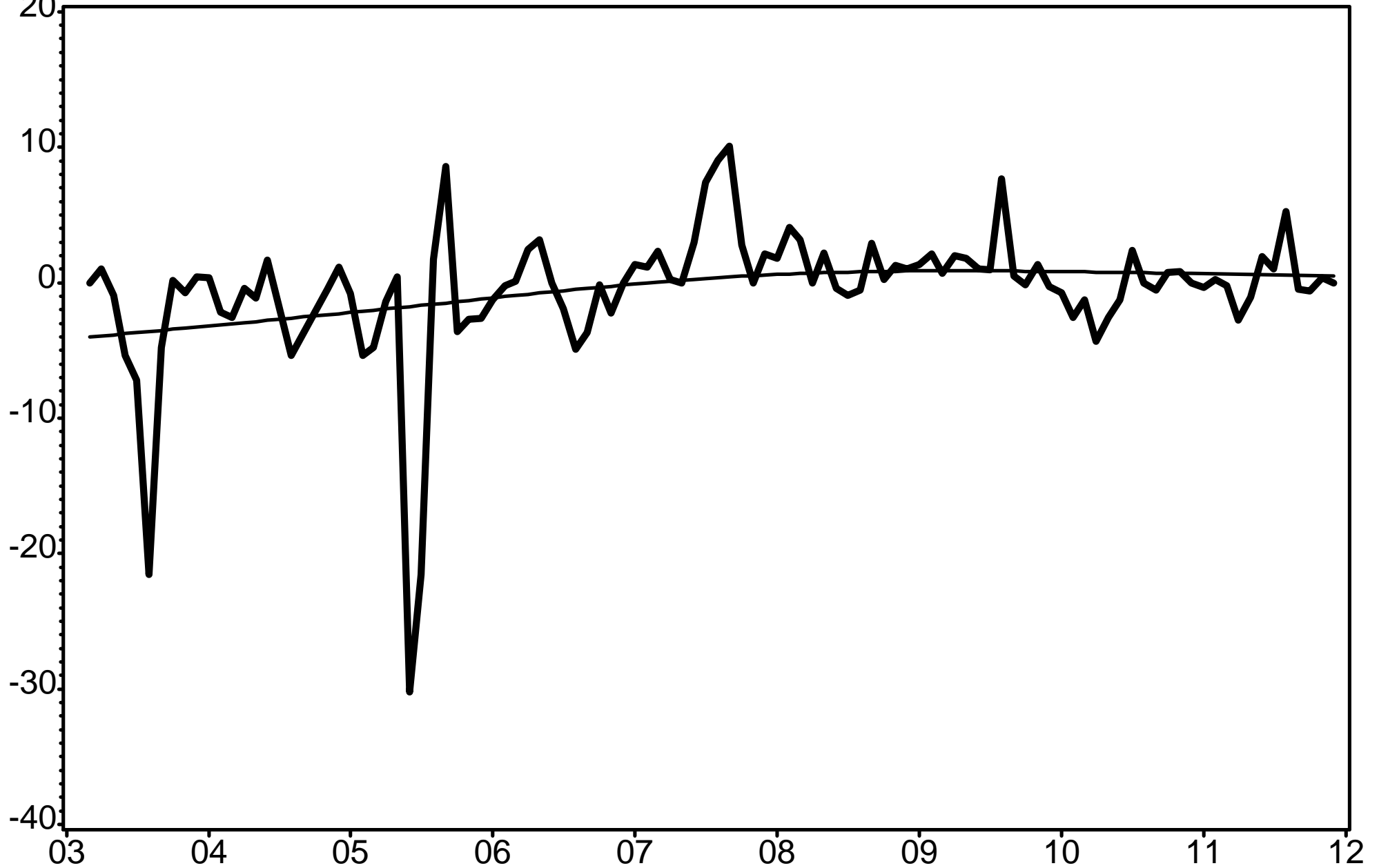
Salinity
(ppt)



Dona and Roberts Bay Trends Appendix - Display 472

Monthly Data Time Series
for Surface Salinity in Dona and Roberts Bay
Adjusted for Seasonal Medians

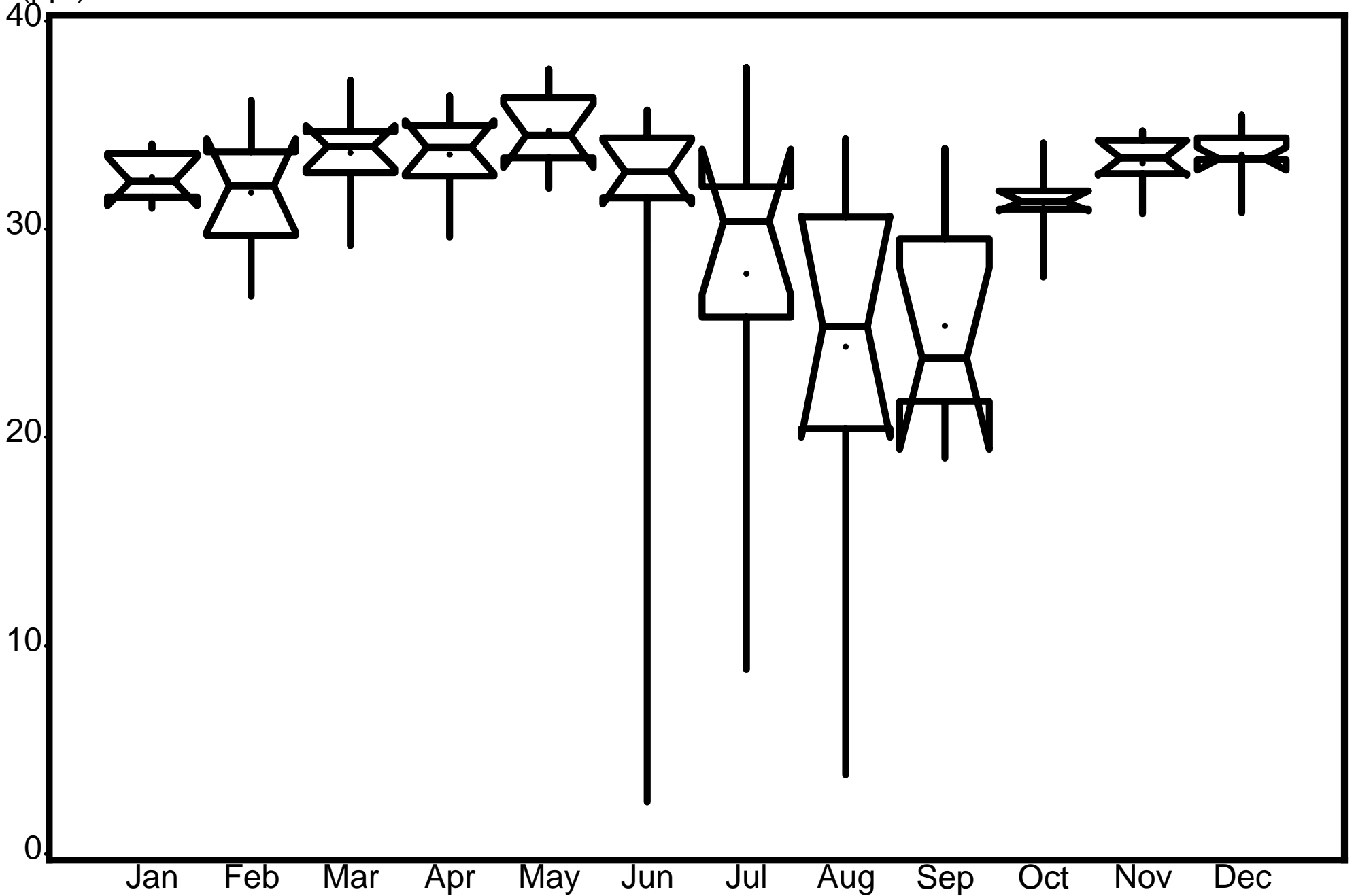
Adjusted
Salinity
(ppt)



Dona and Roberts Bay Trends Appendix - Display 473

Seasonal Univariate Statistics for Surface Salinity in Dona and Roberts Bay

Salinity
(ppt)

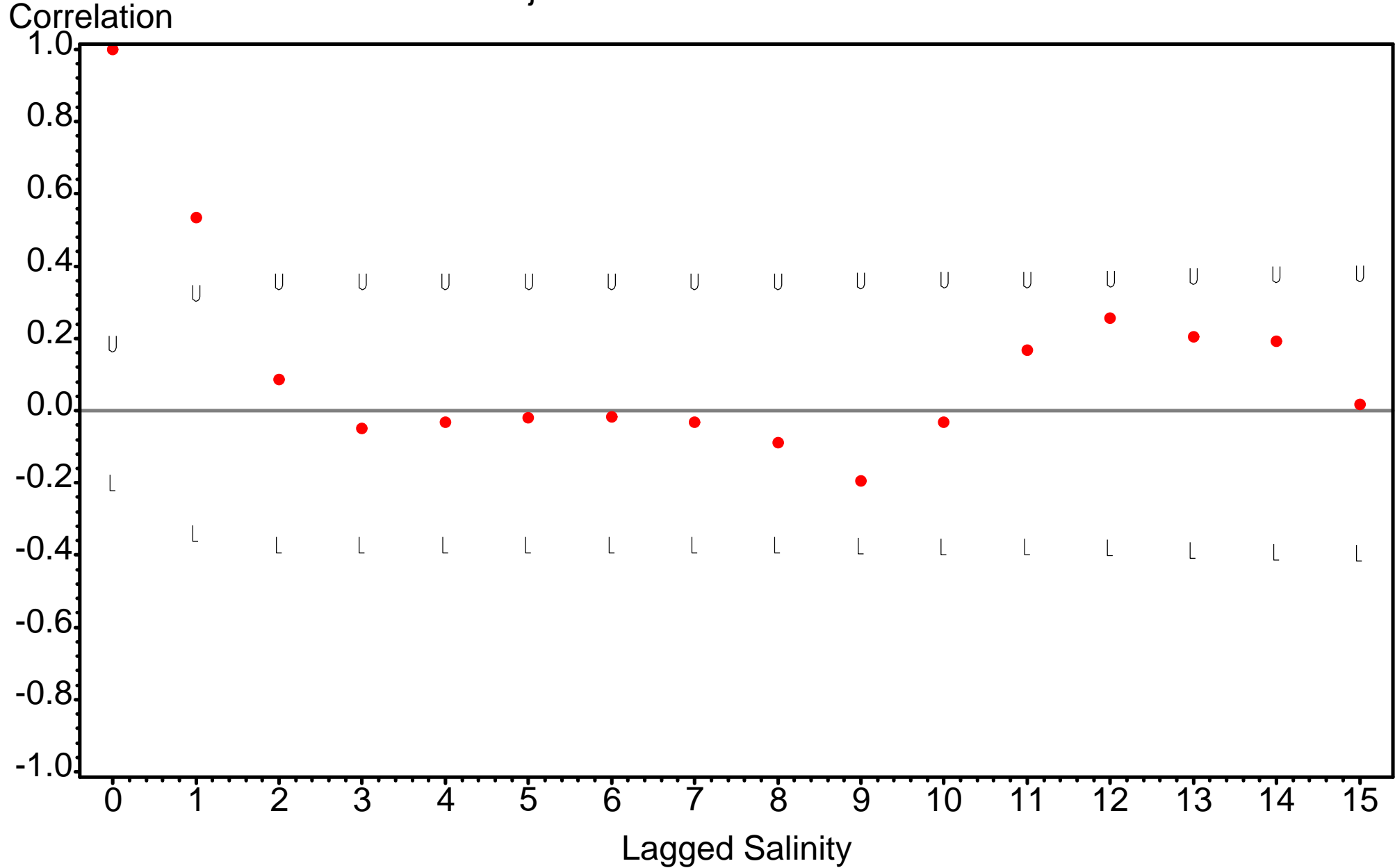


Dona and Roberts Bay Trends Appendix - Display 474
Autocorrelation Statistics for Surface Salinity in Dona and Roberts Bay

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.535	0.167	0.333	-0.333
2	0.085	0.182	0.364	-0.364
3	-0.049	0.182	0.365	-0.365
4	-0.033	0.182	0.365	-0.365
5	-0.019	0.182	0.365	-0.365
6	-0.017	0.182	0.365	-0.365
7	-0.033	0.182	0.365	-0.365
8	-0.089	0.183	0.365	-0.365
9	-0.194	0.183	0.366	-0.366
10	-0.031	0.185	0.370	-0.370
11	0.167	0.185	0.370	-0.370
12	0.256	0.186	0.372	-0.372
13	0.205	0.189	0.379	-0.379
14	0.193	0.192	0.383	-0.383
15	0.018	0.193	0.387	-0.387

Dona and Roberts Bay Trends Appendix - Display 475

Correlogram for Surface Salinity in Dona and Roberts Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 476
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.056	0.404	0.404	0.091

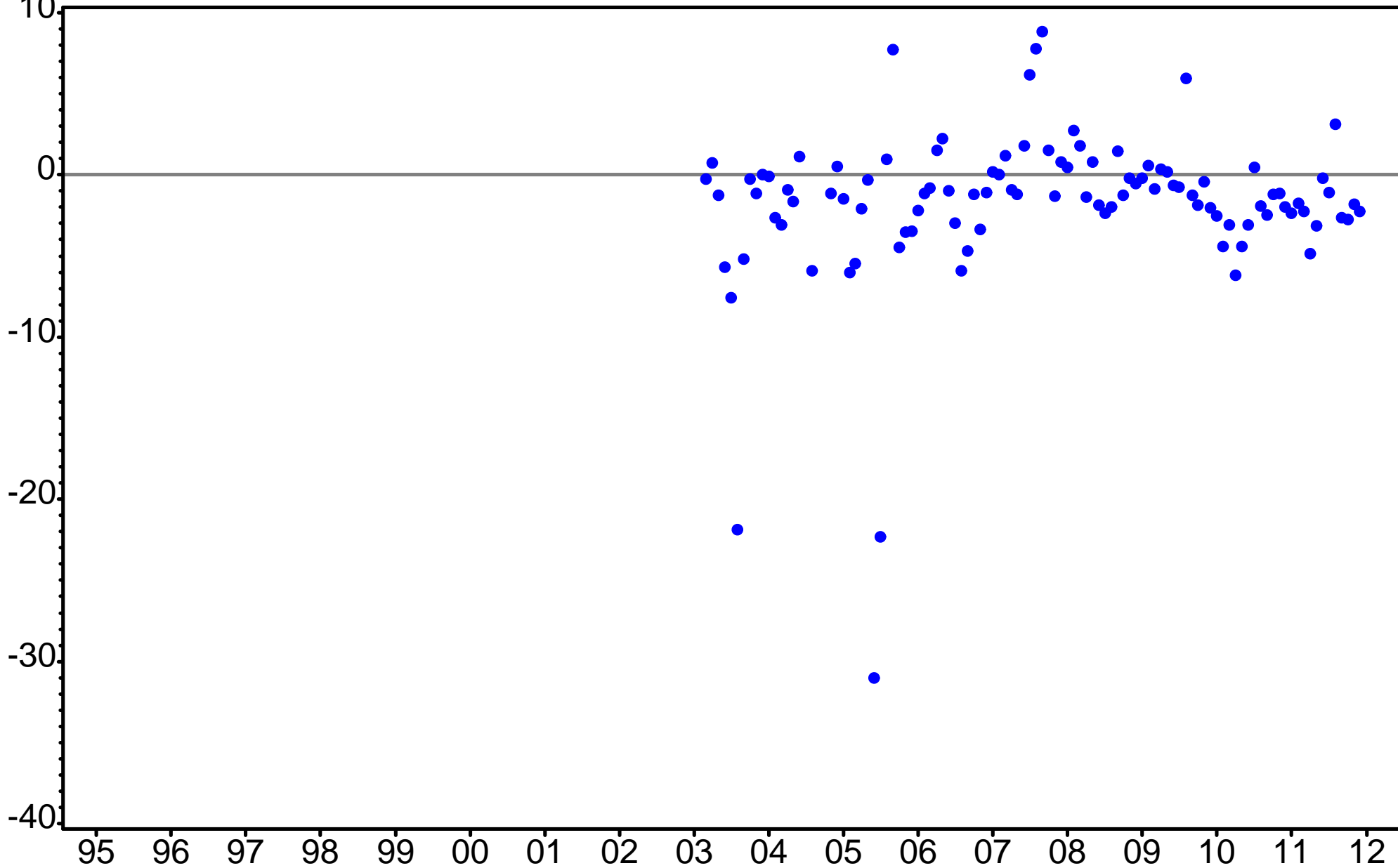
Dona and Roberts Bay Trends Appendix - Display 477
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.14796	0.067320	0.35932	0.22286

Dona and Roberts Bay Trends Appendix - Display 478

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(ppt)



Zero Reference Line Shown

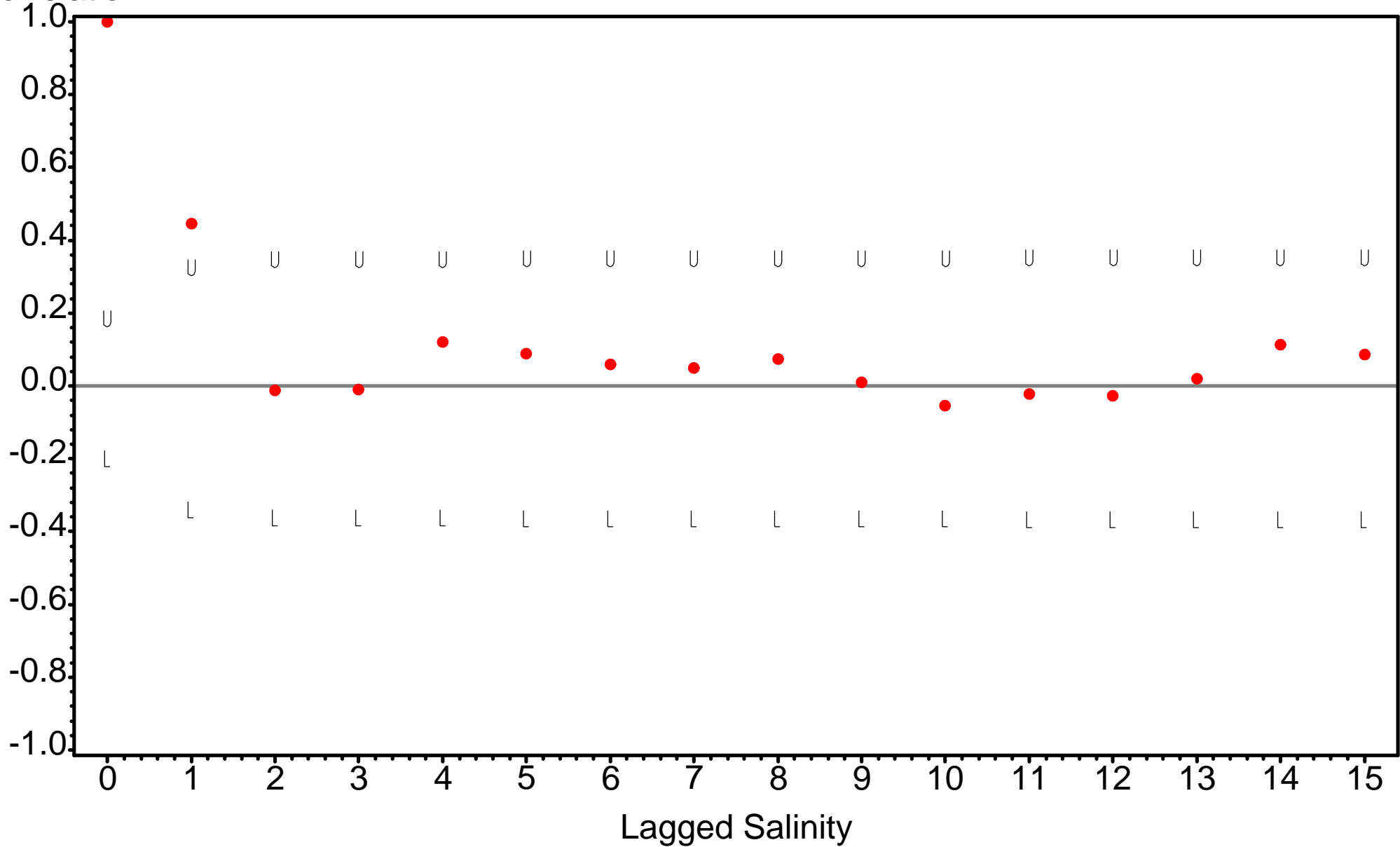
Dona and Roberts Bay Trends Appendix - Display 479
Autocorrelation Statistics for Surface Salinity in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.446	0.167	0.333	-0.333
2	-0.012	0.177	0.355	-0.355
3	-0.009	0.177	0.355	-0.355
4	0.120	0.177	0.355	-0.355
5	0.088	0.178	0.356	-0.356
6	0.060	0.179	0.357	-0.357
7	0.050	0.179	0.357	-0.357
8	0.074	0.179	0.358	-0.358
9	0.010	0.179	0.358	-0.358
10	-0.053	0.179	0.358	-0.358
11	-0.023	0.179	0.359	-0.359
12	-0.026	0.179	0.359	-0.359
13	0.020	0.179	0.359	-0.359
14	0.113	0.179	0.359	-0.359
15	0.087	0.180	0.360	-0.360

Dona and Roberts Bay Trends Appendix - Display 480

Correlogram for Surface Salinity in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

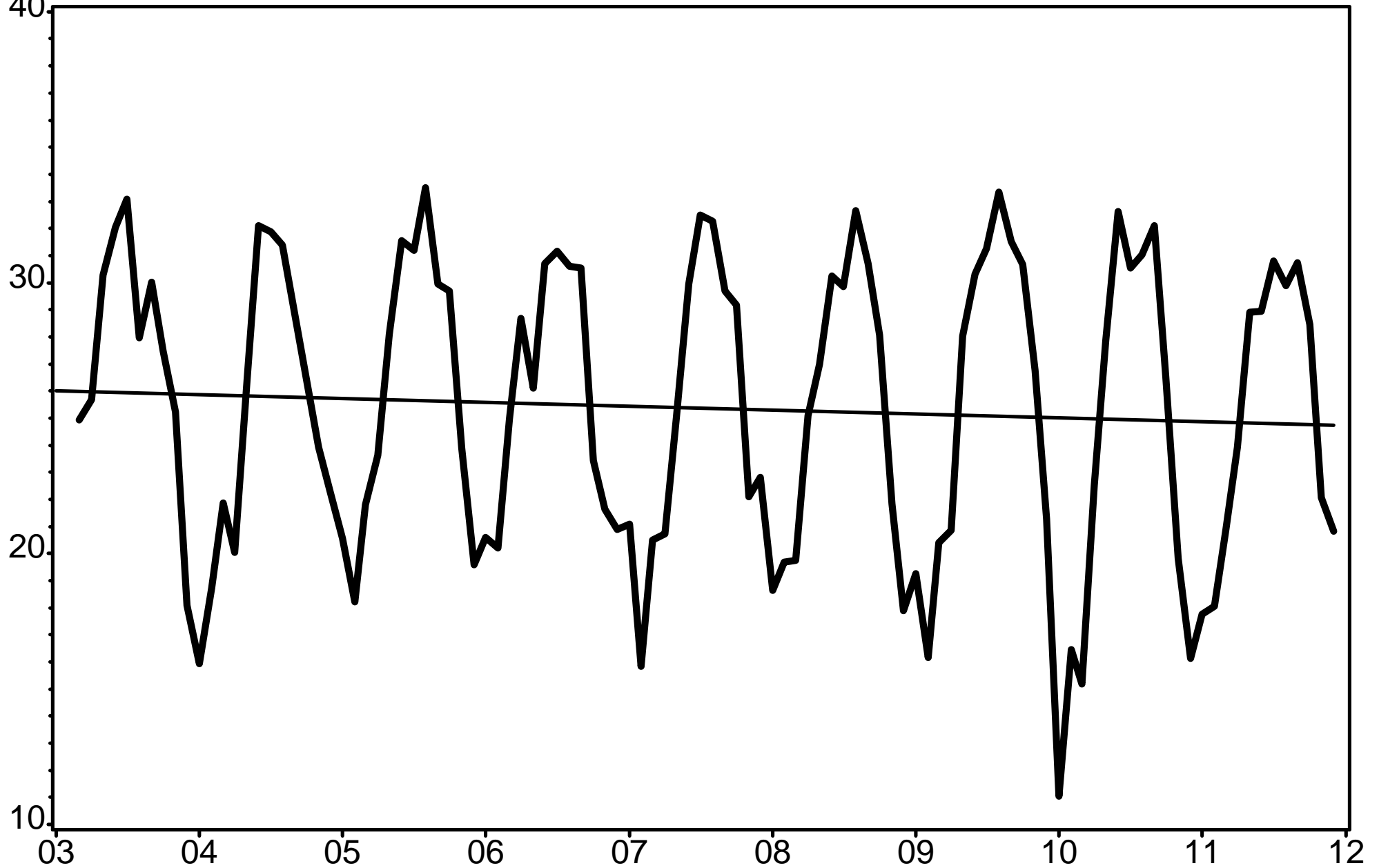
Dona and Roberts Bay Trends Appendix - Display 481

Monthly Data Time Series

for Surface Temperature in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)



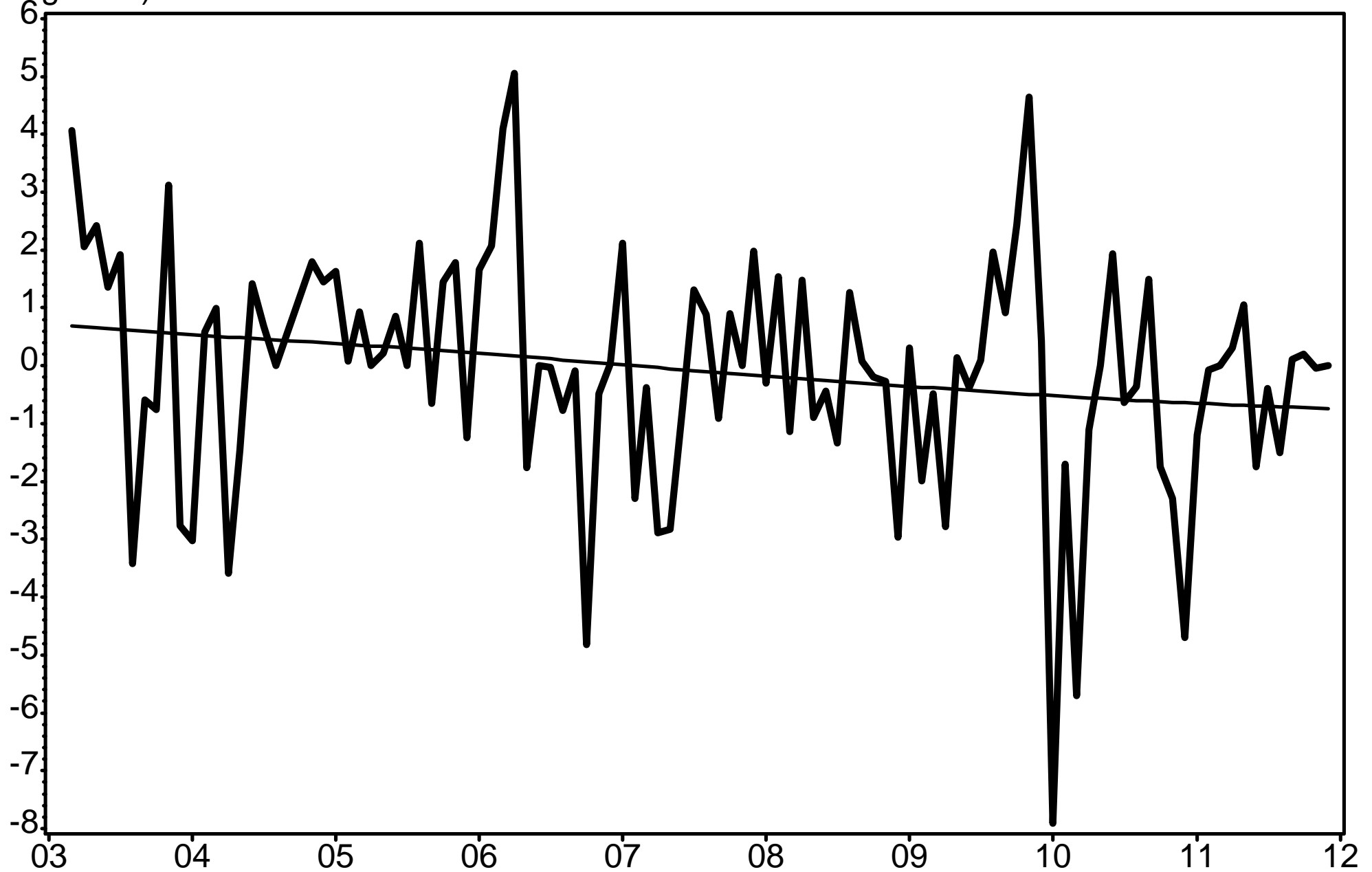
Dona and Roberts Bay Trends Appendix - Display 482

Monthly Data Time Series

for Surface Temperature in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
TEMP_C
(Degree C)

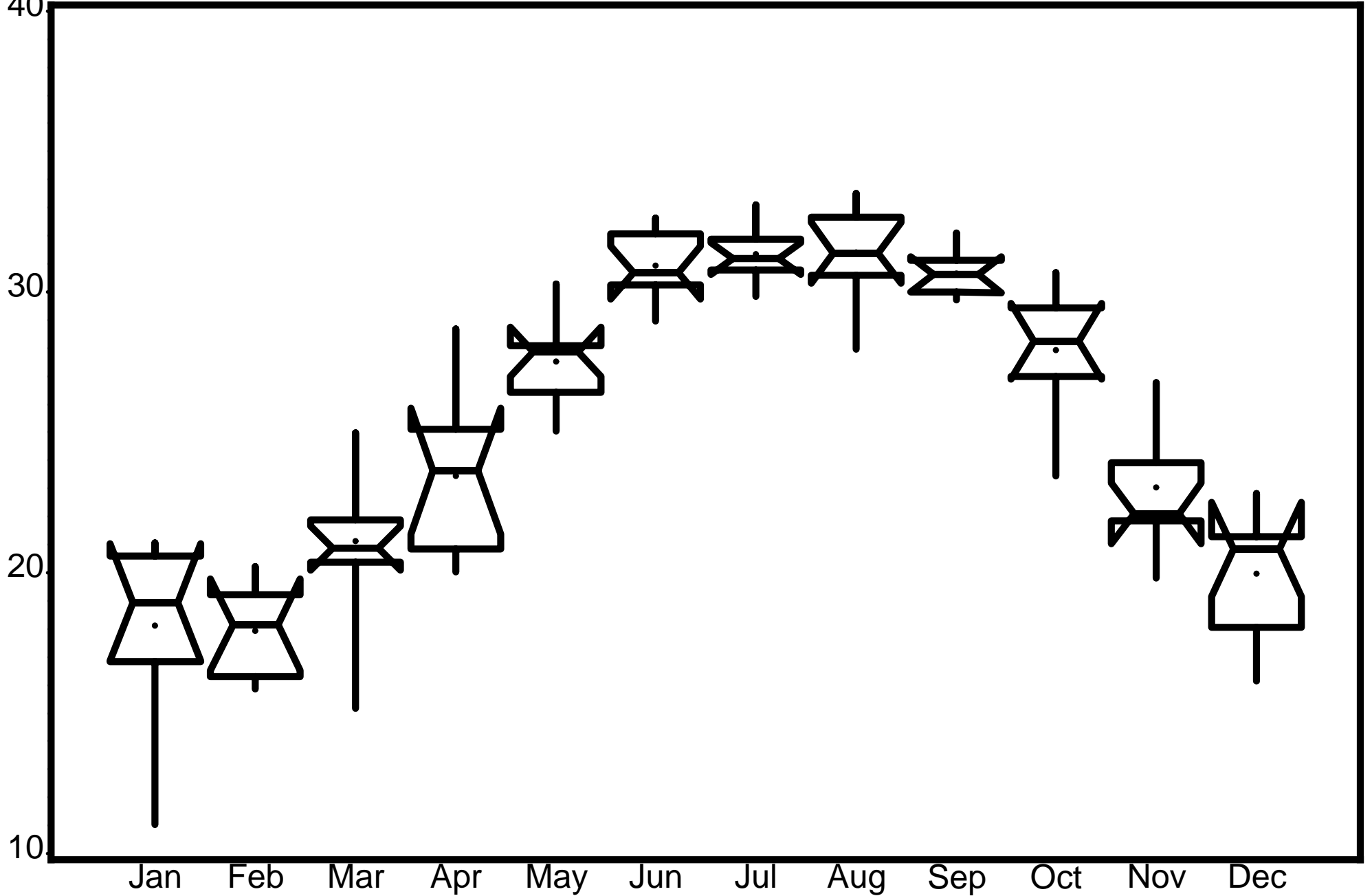


Dona and Roberts Bay Trends Appendix - Display 483

Seasonal Univariate Statistics

for Surface Temperature in Dona and Roberts Bay

TEMP_C
(Degree C)
40



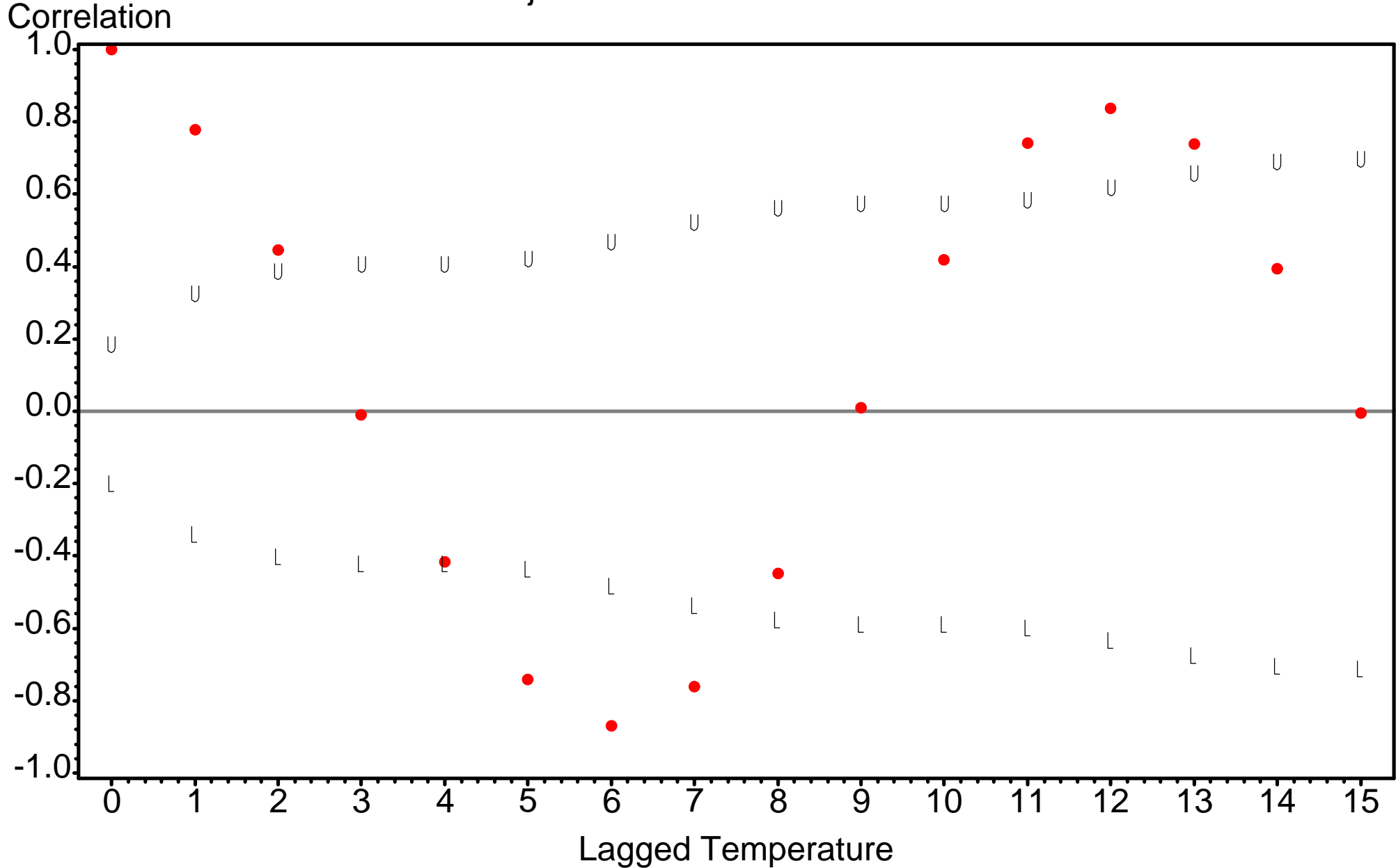
Dona and Roberts Bay Trends Appendix - Display 484
Autocorrelation Statistics for Surface Temperature in Dona and Roberts Bay

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.778	0.167	0.333	-0.333
2	0.445	0.197	0.395	-0.395
3	-0.009	0.206	0.413	-0.413
4	-0.417	0.206	0.413	-0.413
5	-0.742	0.214	0.428	-0.428
6	-0.869	0.237	0.474	-0.474
7	-0.760	0.265	0.529	-0.529
8	-0.447	0.284	0.568	-0.568
9	0.010	0.291	0.581	-0.581
10	0.418	0.291	0.581	-0.581
11	0.741	0.296	0.592	-0.592
12	0.837	0.313	0.626	-0.626
13	0.739	0.333	0.666	-0.666
14	0.394	0.348	0.696	-0.696
15	-0.004	0.352	0.704	-0.704

Dona and Roberts Bay Trends Appendix - Display 485

Correlogram for Surface Temperature in Dona and Roberts Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 486
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.04	0.546	0.546	-0.125

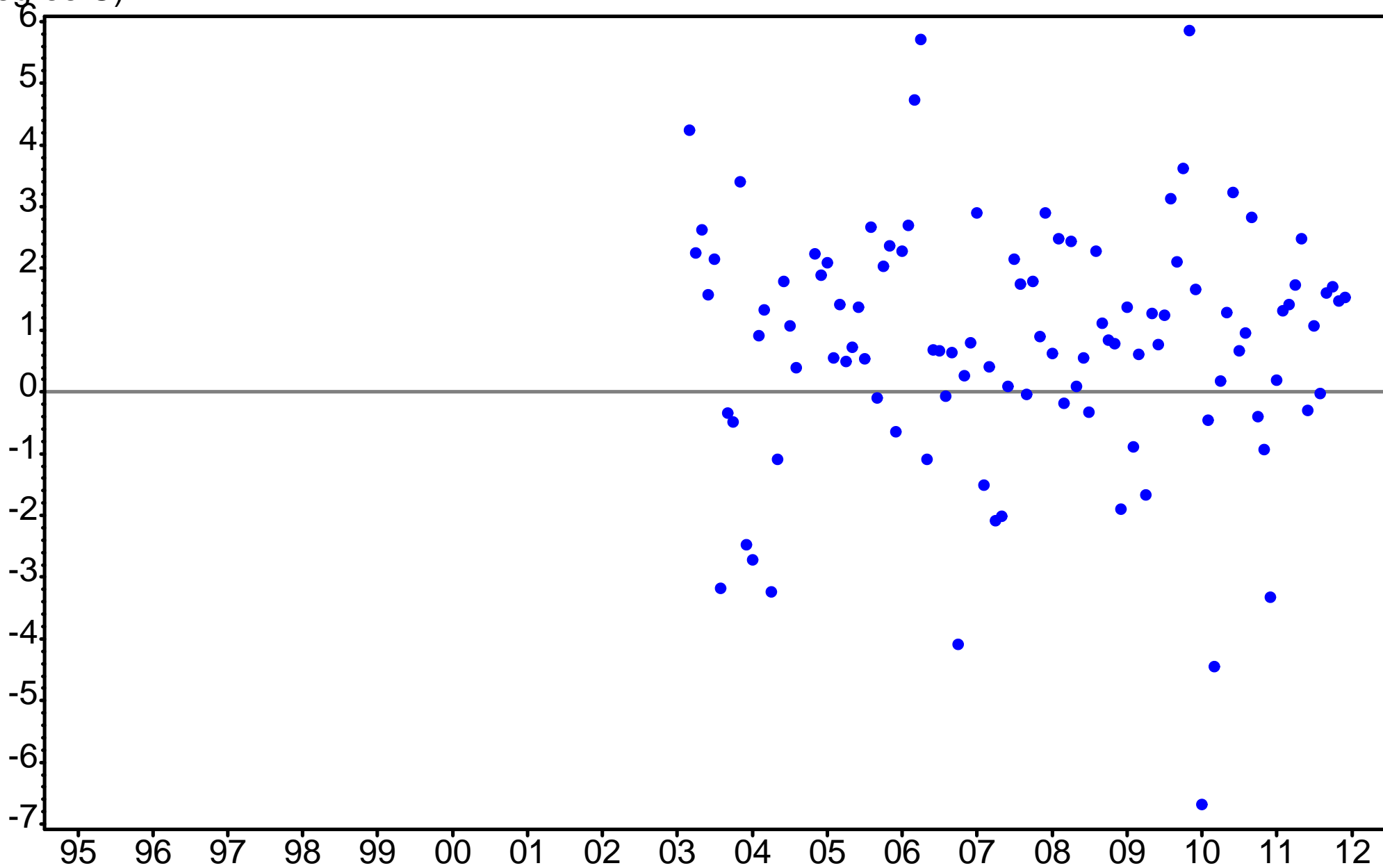
Dona and Roberts Bay Trends Appendix - Display 487
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.15	0.061729	0.084638	-0.15417

Dona and Roberts Bay Trends Appendix - Display 488

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(Degree C)



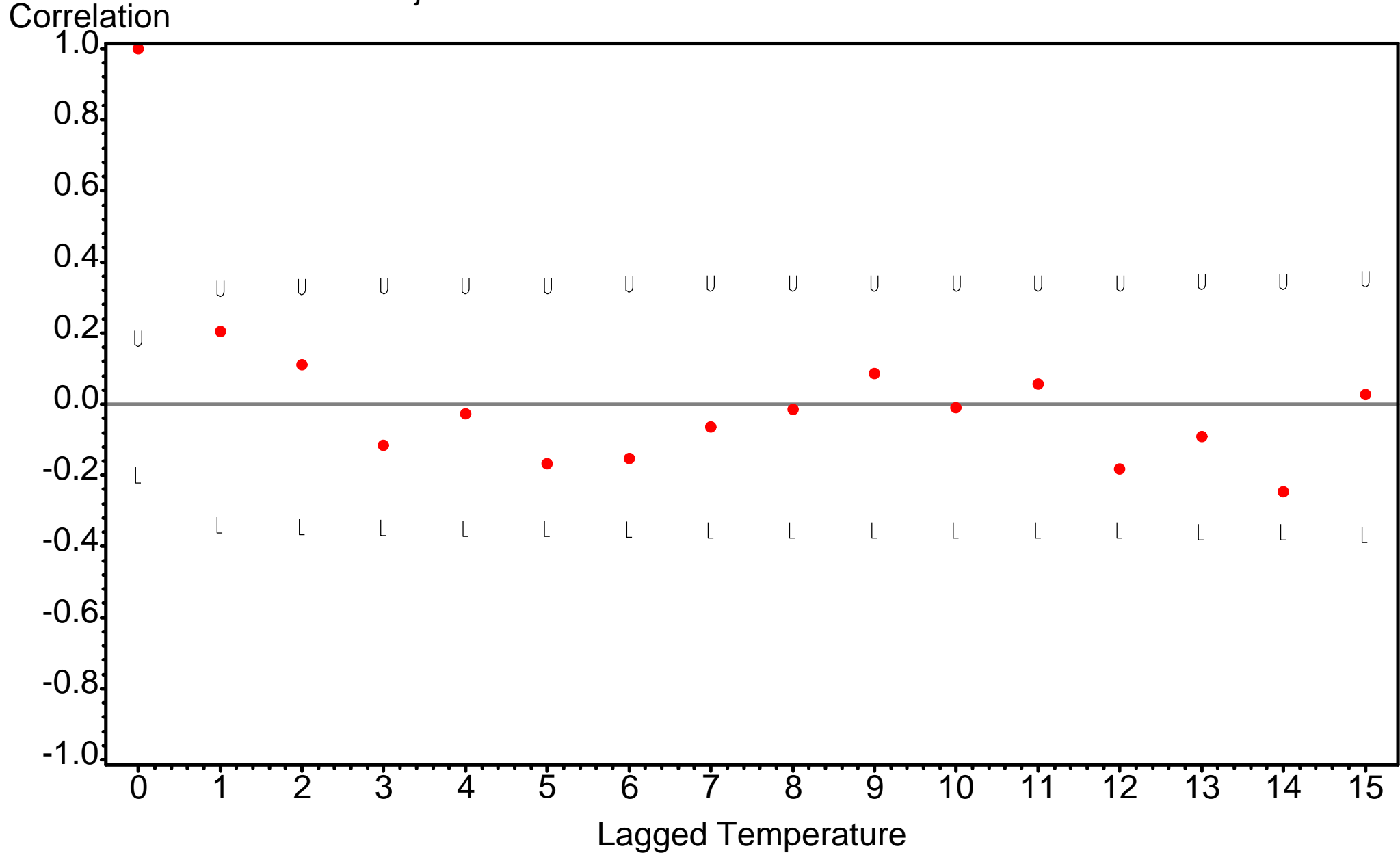
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 489
Autocorrelation Statistics for Surface Temperature in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.204	0.167	0.333	-0.333
2	0.110	0.169	0.338	-0.338
3	-0.115	0.170	0.339	-0.339
4	-0.027	0.170	0.341	-0.341
5	-0.167	0.170	0.341	-0.341
6	-0.152	0.172	0.344	-0.344
7	-0.065	0.173	0.346	-0.346
8	-0.015	0.173	0.347	-0.347
9	0.086	0.173	0.347	-0.347
10	-0.010	0.174	0.348	-0.348
11	0.056	0.174	0.348	-0.348
12	-0.181	0.174	0.348	-0.348
13	-0.090	0.176	0.351	-0.351
14	-0.247	0.176	0.352	-0.352
15	0.028	0.179	0.359	-0.359

Dona and Roberts Bay Trends Appendix - Display 490

Correlogram for Surface Temperature in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



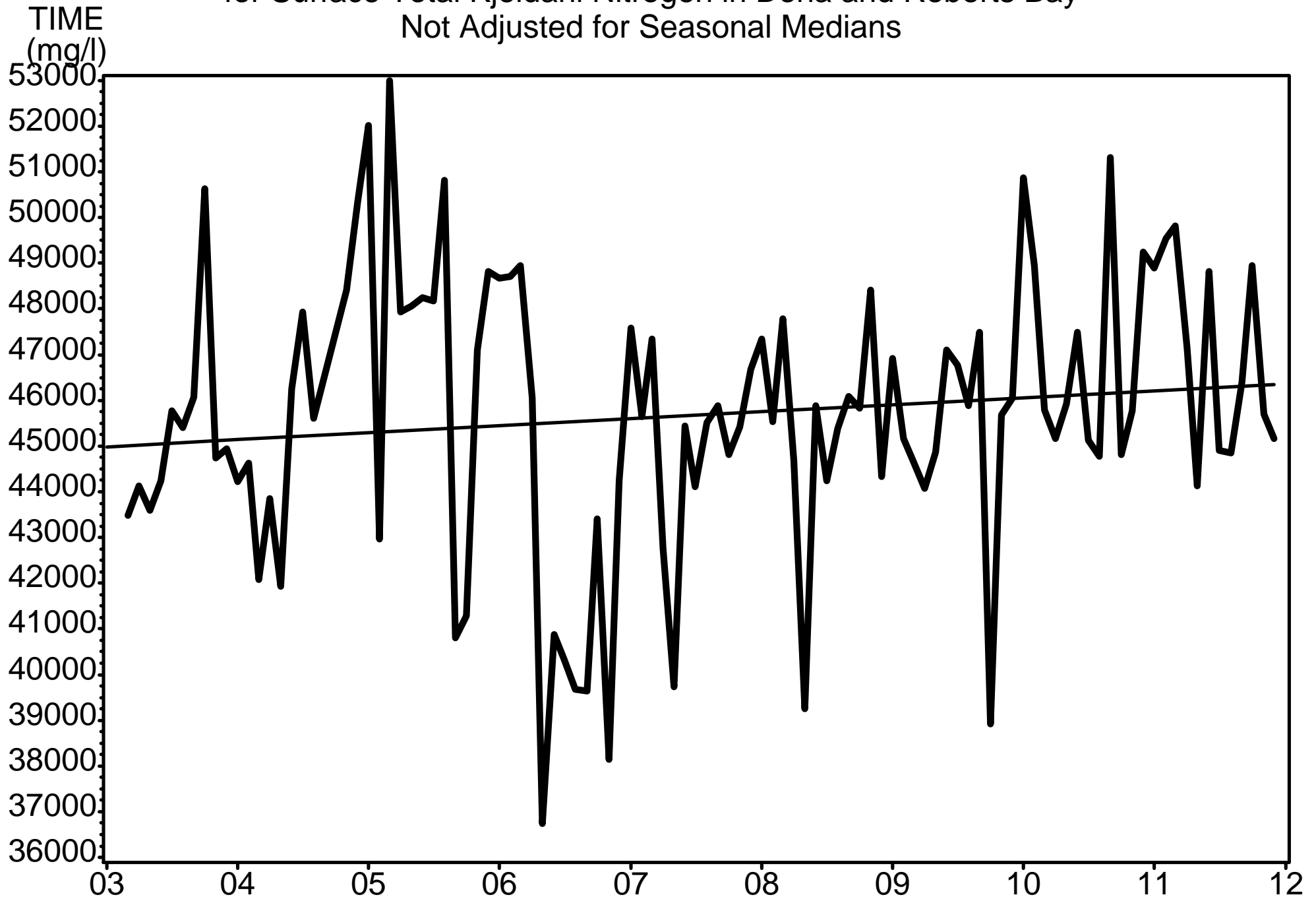
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 491

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay

Not Adjusted for Seasonal Medians



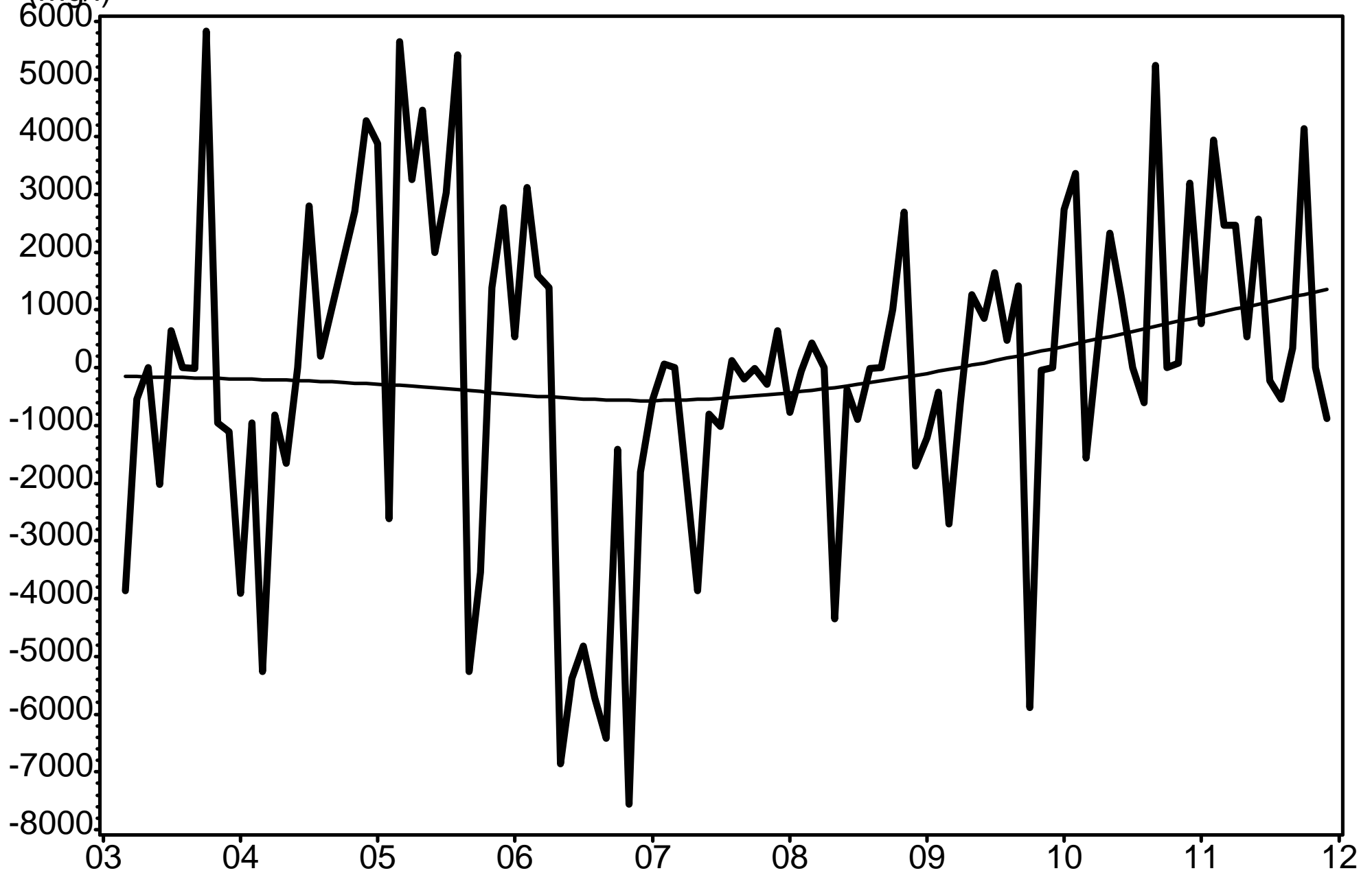
Dona and Roberts Bay Trends Appendix - Display 492

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
TIME
(mg/l)



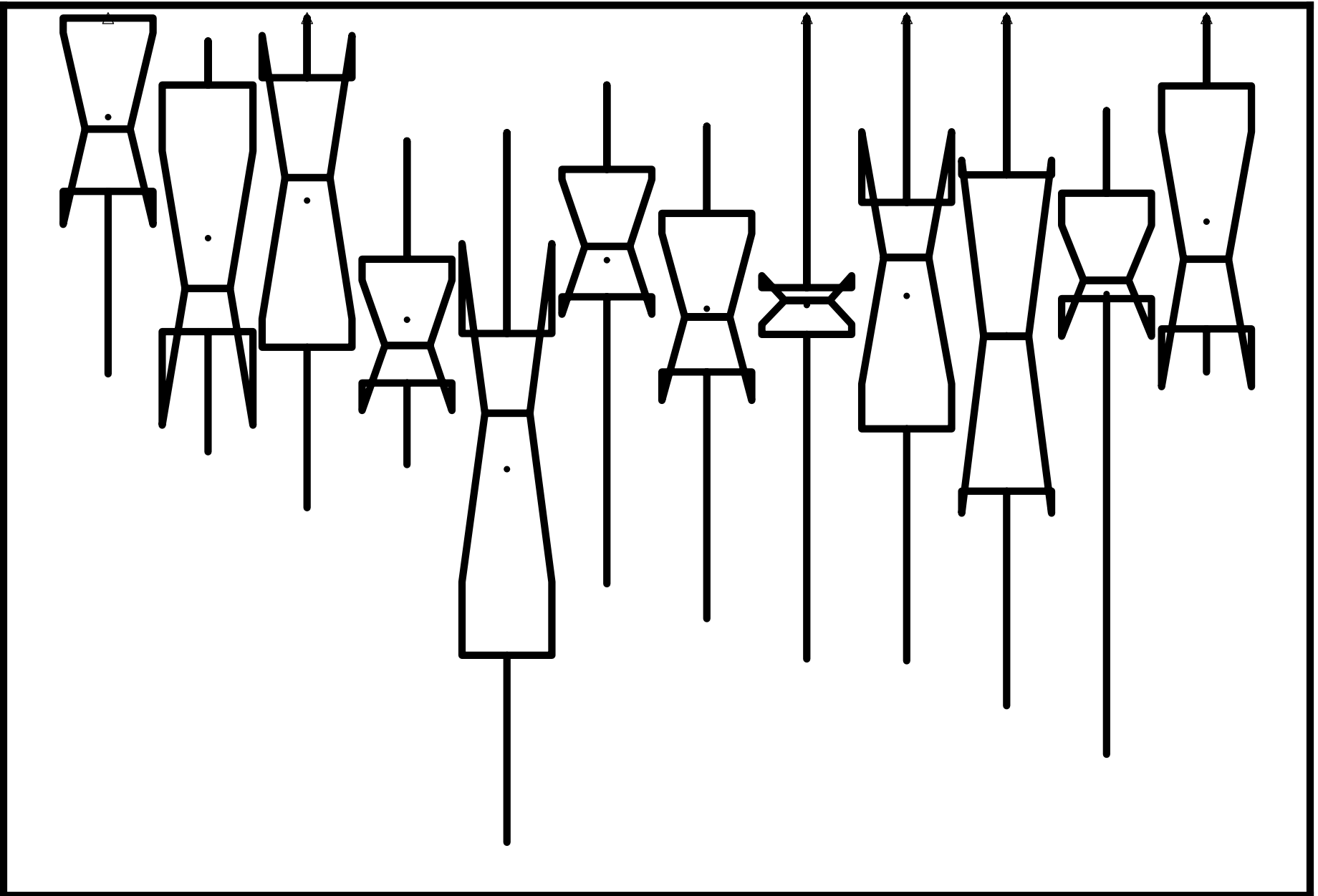
Dona and Roberts Bay Trends Appendix - Display 493

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay

TIME
(mg/l)

50000
49000
48000
47000
46000
45000
44000
43000
42000
41000
40000
39000
38000
37000
36000



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

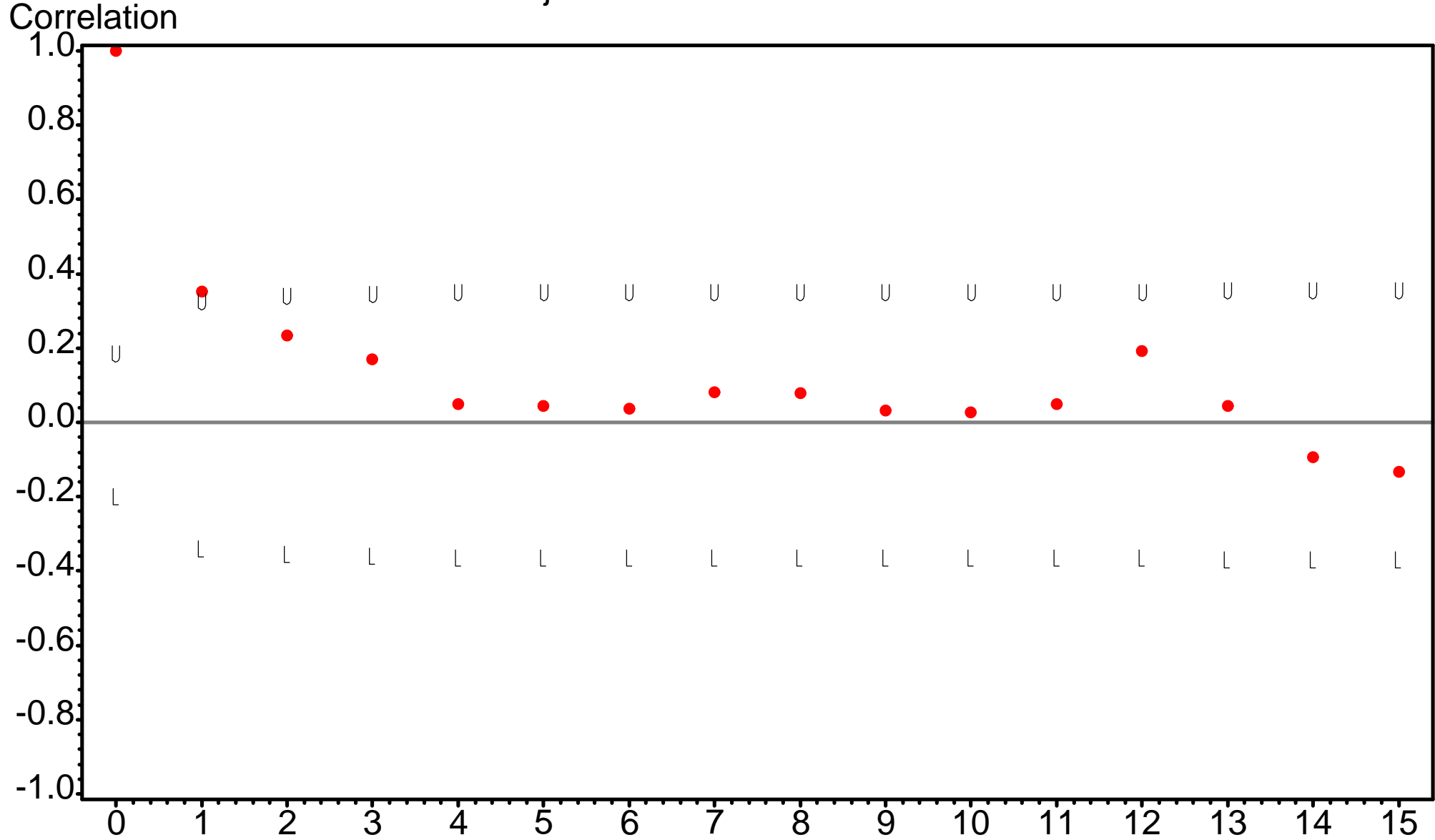
Dona and Roberts Bay Trends Appendix - Display 494
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.351	0.167	0.333	-0.333
2	0.234	0.173	0.347	-0.347
3	0.170	0.176	0.353	-0.353
4	0.050	0.178	0.356	-0.356
5	0.045	0.178	0.356	-0.356
6	0.038	0.178	0.356	-0.356
7	0.082	0.178	0.356	-0.356
8	0.079	0.178	0.357	-0.357
9	0.033	0.179	0.358	-0.358
10	0.028	0.179	0.358	-0.358
11	0.049	0.179	0.358	-0.358
12	0.193	0.179	0.358	-0.358
13	0.045	0.181	0.362	-0.362
14	-0.093	0.181	0.362	-0.362
15	-0.134	0.181	0.363	-0.363

Dona and Roberts Bay Trends Appendix - Display 495

Correlogram for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 496
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.112	0.093	0.093	157.007

Dona and Roberts Bay Trends Appendix - Display 497
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay
Adjusted for Seasonal Medians

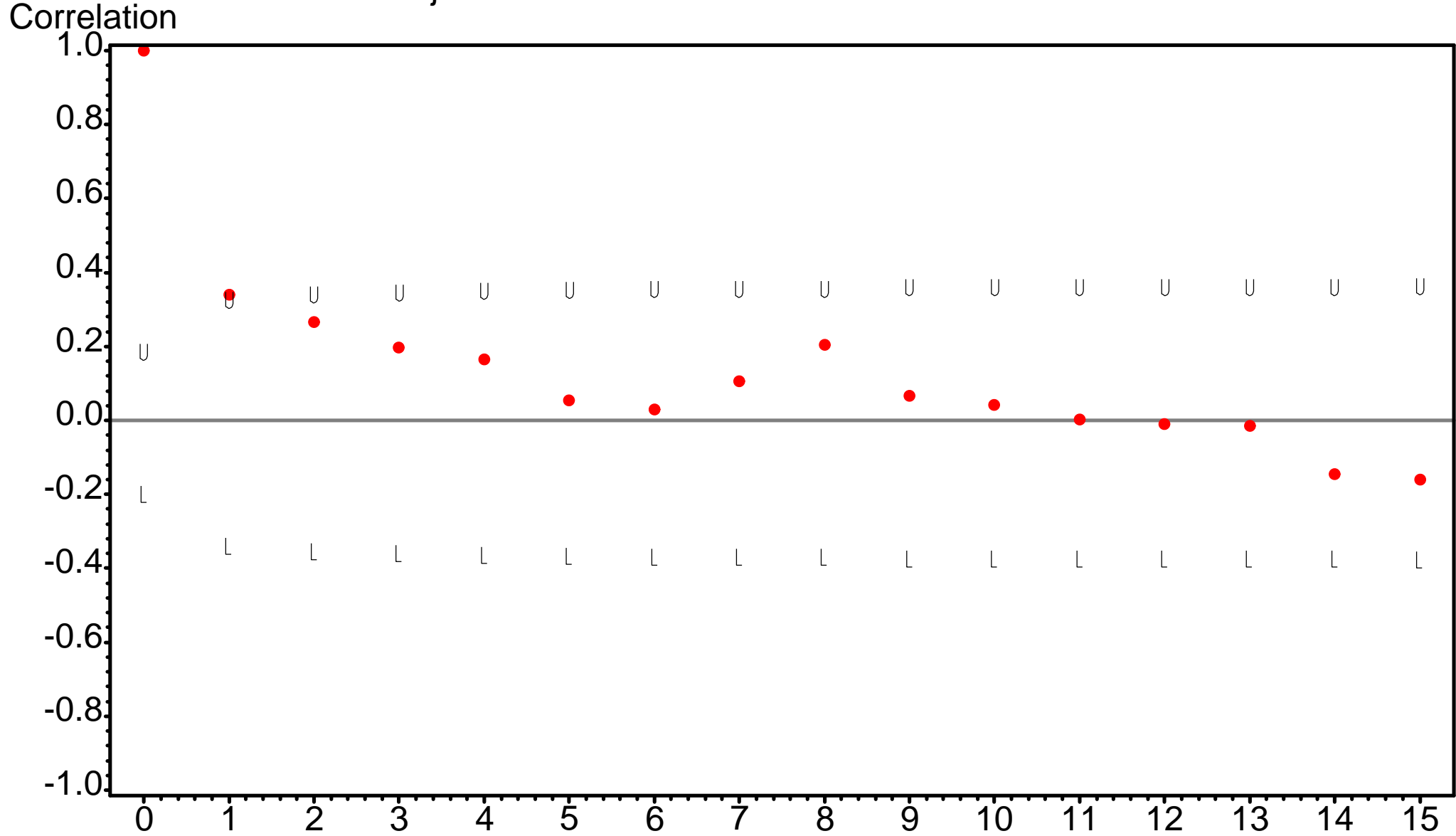
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.145	0.071090	0.27028	159.8

Dona and Roberts Bay Trends Appendix - Display 499
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.340	0.167	0.333	-0.333
2	0.267	0.173	0.346	-0.346
3	0.197	0.177	0.353	-0.353
4	0.166	0.179	0.358	-0.358
5	0.055	0.180	0.360	-0.360
6	0.029	0.180	0.361	-0.361
7	0.106	0.180	0.361	-0.361
8	0.204	0.181	0.362	-0.362
9	0.067	0.183	0.366	-0.366
10	0.041	0.183	0.367	-0.367
11	0.003	0.183	0.367	-0.367
12	-0.010	0.183	0.367	-0.367
13	-0.014	0.183	0.367	-0.367
14	-0.144	0.183	0.367	-0.367
15	-0.161	0.184	0.369	-0.369

Dona and Roberts Bay Trends Appendix - Display 500

Correlogram for Surface Total Kjeldahl Nitrogen in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

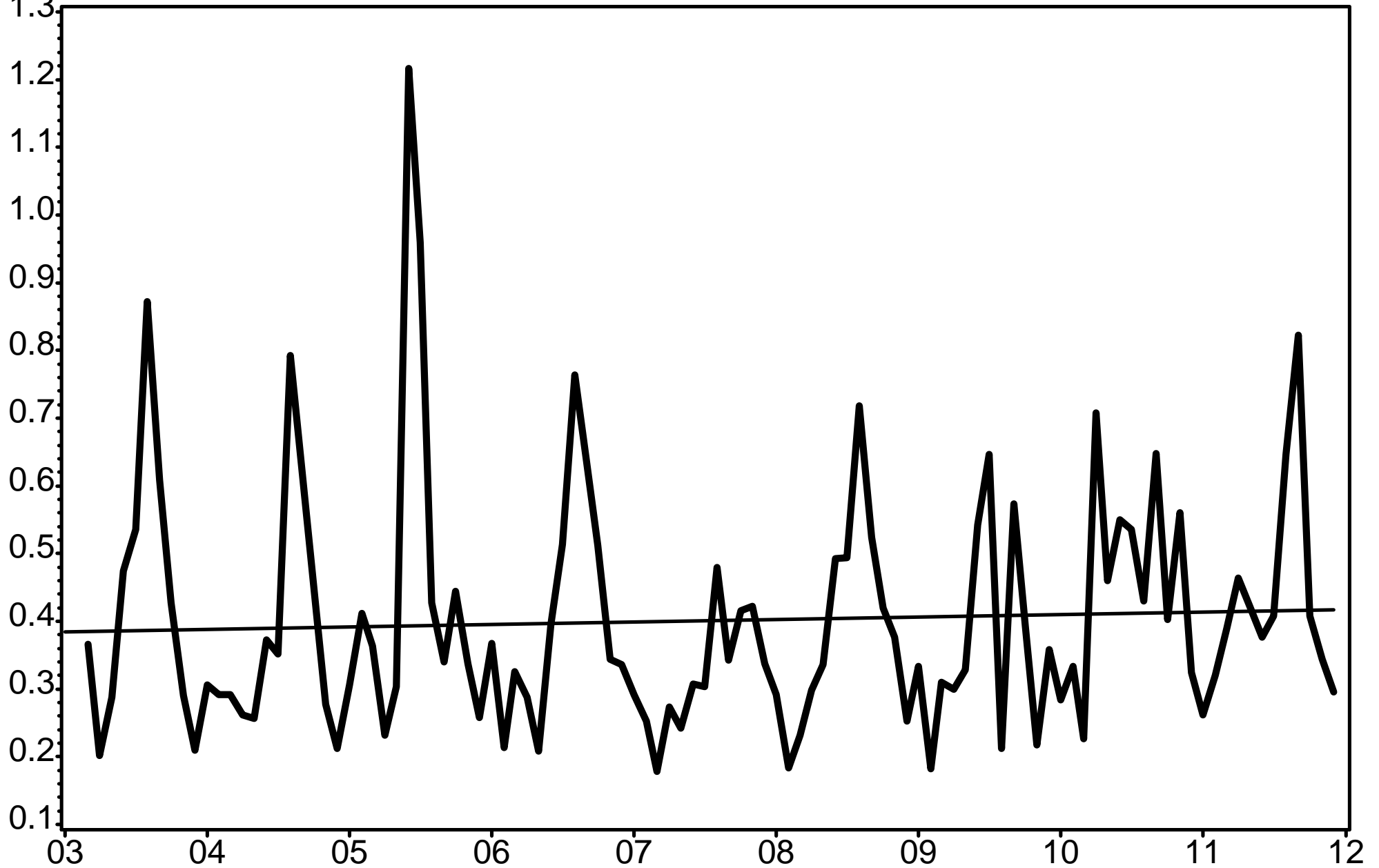
Dona and Roberts Bay Trends Appendix - Display 501

Monthly Data Time Series

for Surface Total Nitrogen in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



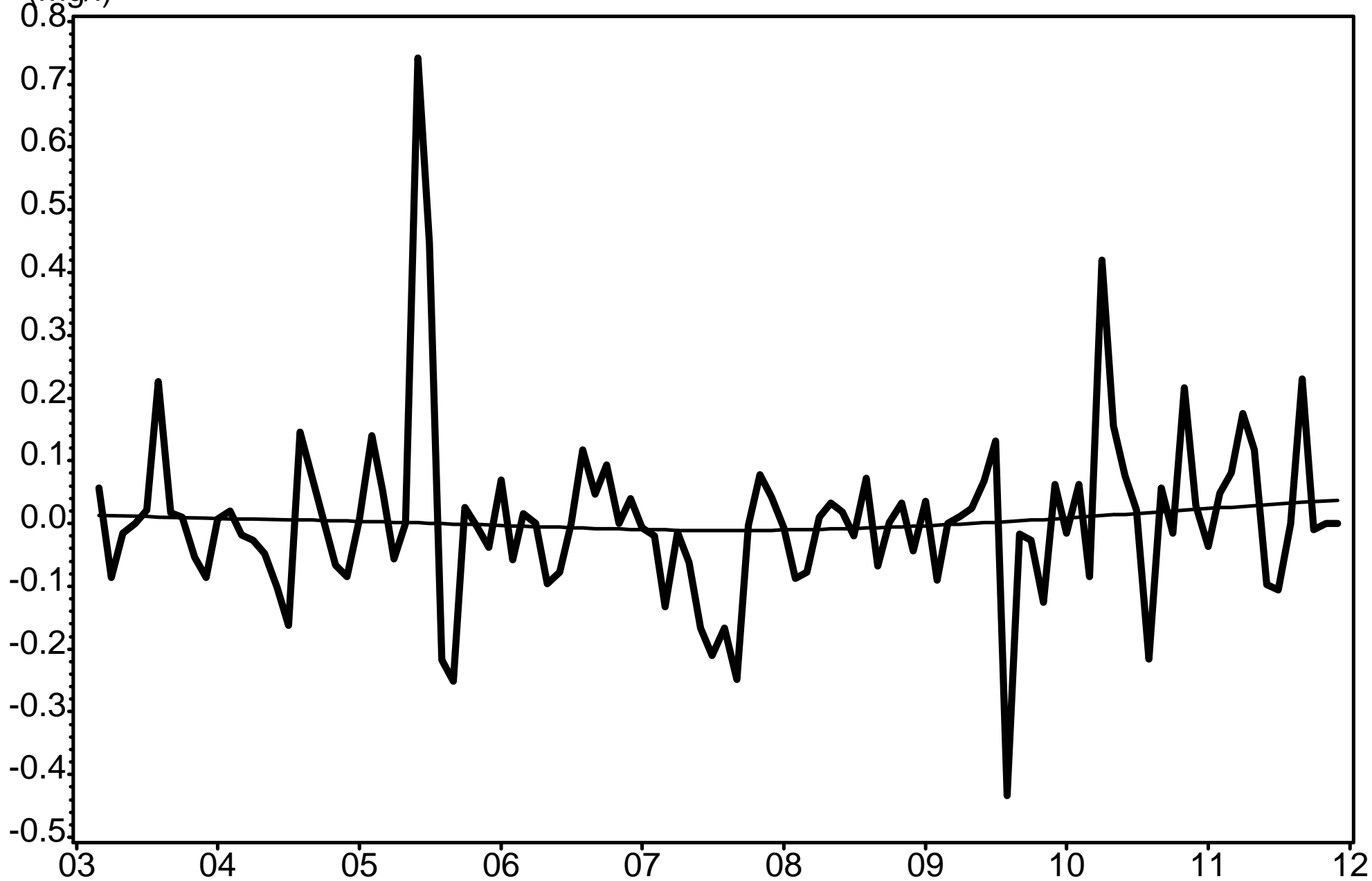
Dona and Roberts Bay Trends Appendix - Display 502

Monthly Data Time Series

for Surface Total Nitrogen in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

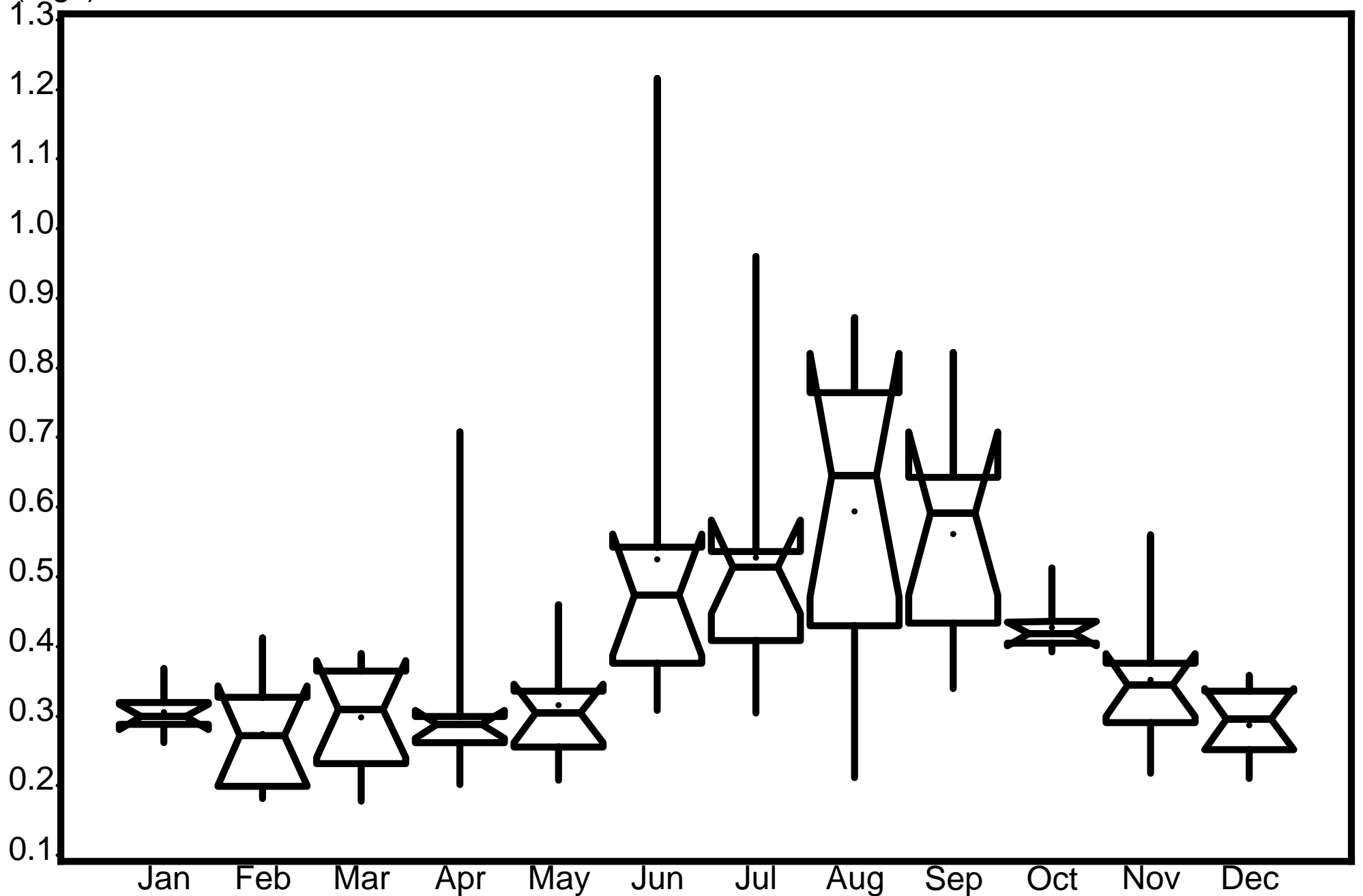


Dona and Roberts Bay Trends Appendix - Display 503

Seasonal Univariate Statistics

for Surface Total Nitrogen in Dona and Roberts Bay

TKN_mgl
(mg/l)



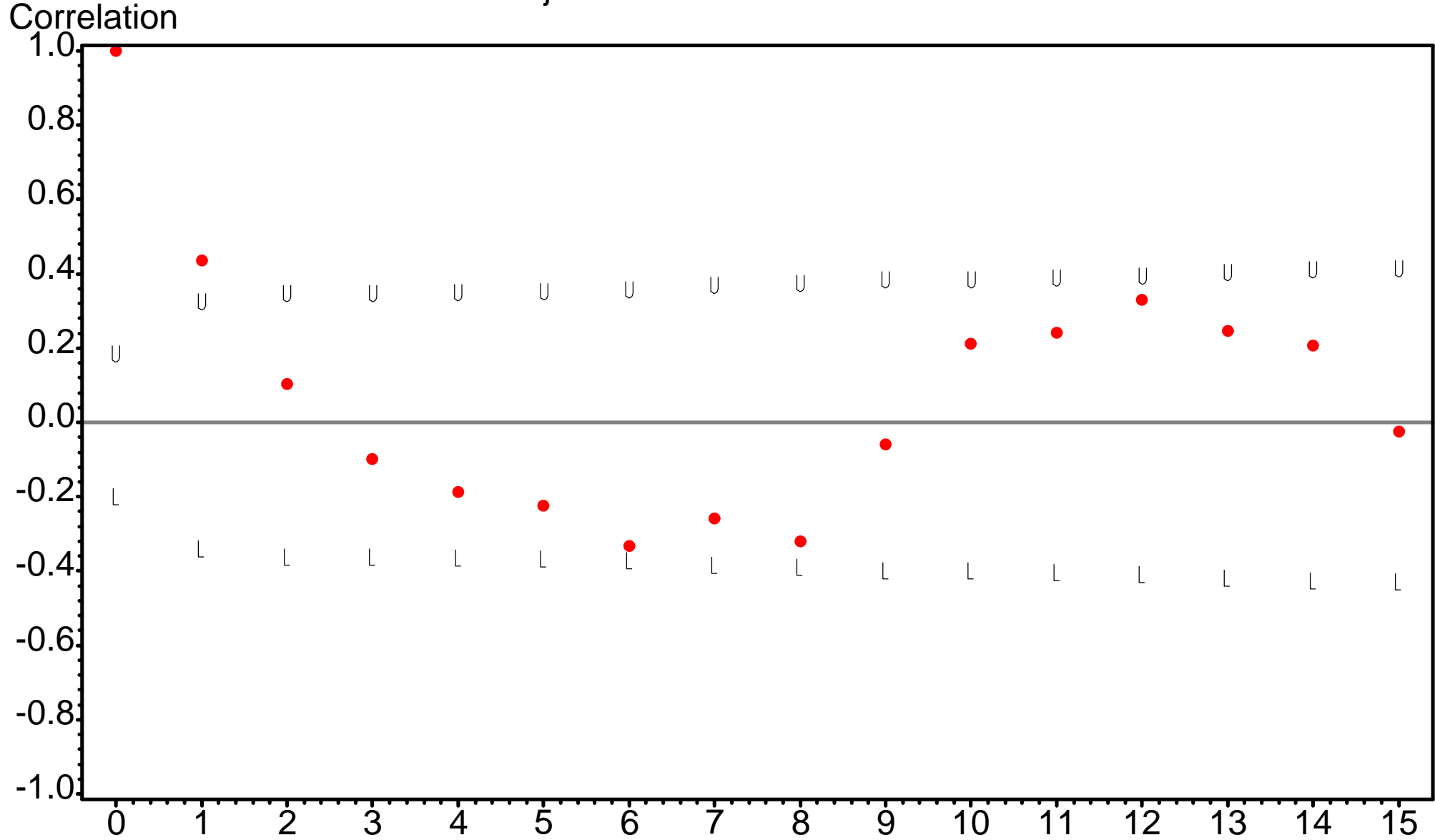
Dona and Roberts Bay Trends Appendix - Display 504
 Autocorrelation Statistics for Surface Total Nitrogen in Dona and Roberts Bay

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.437	0.167	0.333	-0.333
2	0.103	0.177	0.354	-0.354
3	-0.098	0.178	0.355	-0.355
4	-0.187	0.178	0.356	-0.356
5	-0.223	0.180	0.360	-0.360
6	-0.332	0.182	0.365	-0.365
7	-0.259	0.188	0.376	-0.376
8	-0.321	0.191	0.382	-0.382
9	-0.058	0.196	0.392	-0.392
10	0.212	0.196	0.392	-0.392
11	0.242	0.198	0.397	-0.397
12	0.331	0.201	0.402	-0.402
13	0.246	0.206	0.412	-0.412
14	0.207	0.209	0.418	-0.418
15	-0.025	0.211	0.421	-0.421

Dona and Roberts Bay Trends Appendix - Display 505

Correlogram for Surface Total Nitrogen in Dona and Roberts Bay

Unadjusted for Seasonal Median



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 506
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.108	0.104	0.104	.008

Dona and Roberts Bay Trends Appendix - Display 507
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Dona and Roberts Bay
Adjusted for Seasonal Medians

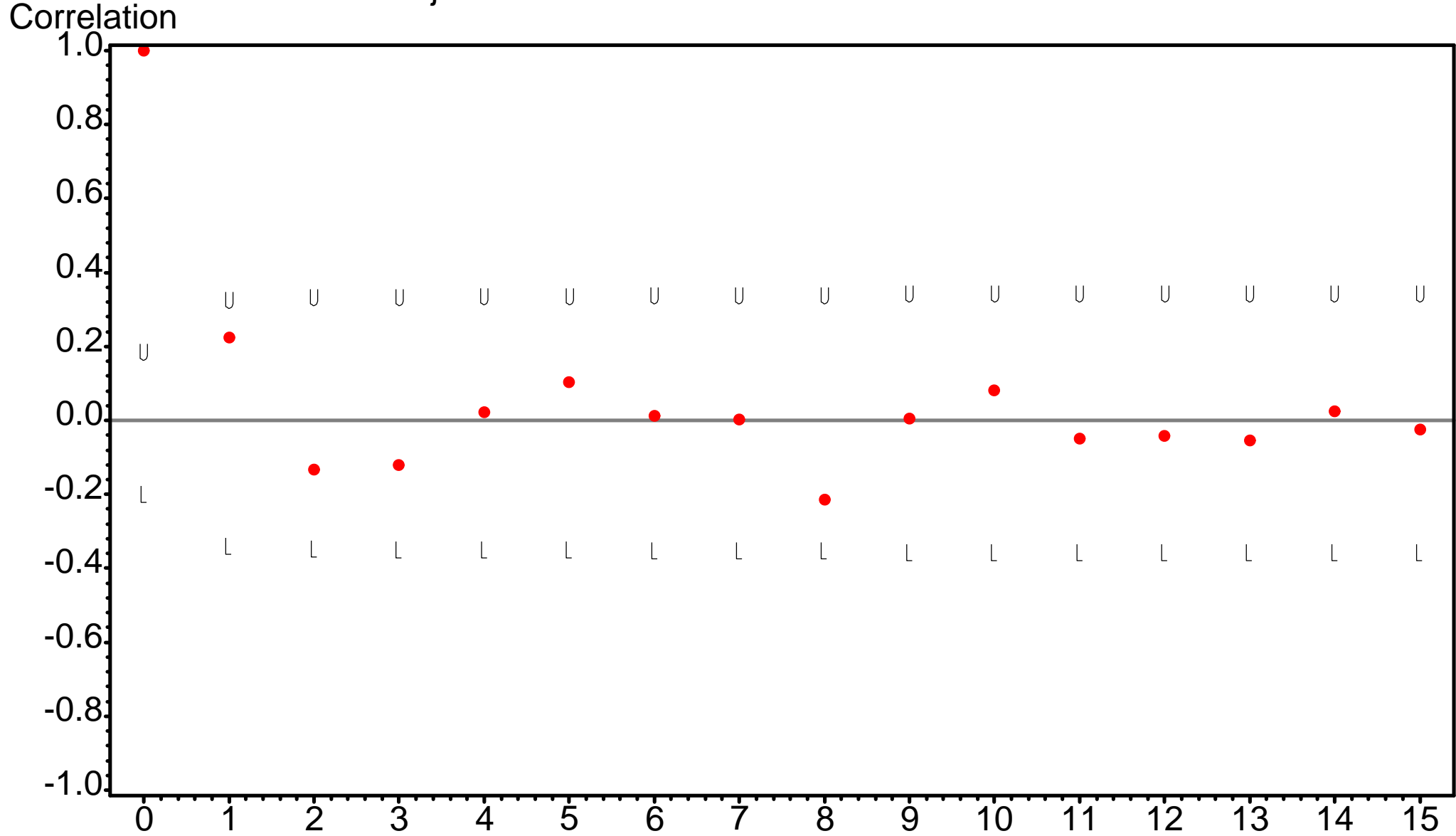
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.095	0.24041	0.25337	.00525

Dona and Roberts Bay Trends Appendix - Display 509
 Autocorrelation Statistics for Surface Total Nitrogen in Dona and Roberts Bay
 Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.225	0.167	0.333	-0.333
2	-0.134	0.169	0.339	-0.339
3	-0.120	0.170	0.341	-0.341
4	0.021	0.171	0.342	-0.342
5	0.103	0.171	0.343	-0.343
6	0.012	0.172	0.344	-0.344
7	0.002	0.172	0.344	-0.344
8	-0.215	0.172	0.344	-0.344
9	0.006	0.174	0.349	-0.349
10	0.082	0.174	0.349	-0.349
11	-0.049	0.175	0.349	-0.349
12	-0.043	0.175	0.350	-0.350
13	-0.055	0.175	0.350	-0.350
14	0.024	0.175	0.350	-0.350
15	-0.024	0.175	0.350	-0.350

Dona and Roberts Bay Trends Appendix - Display 510

Correlogram for Surface Total Nitrogen in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

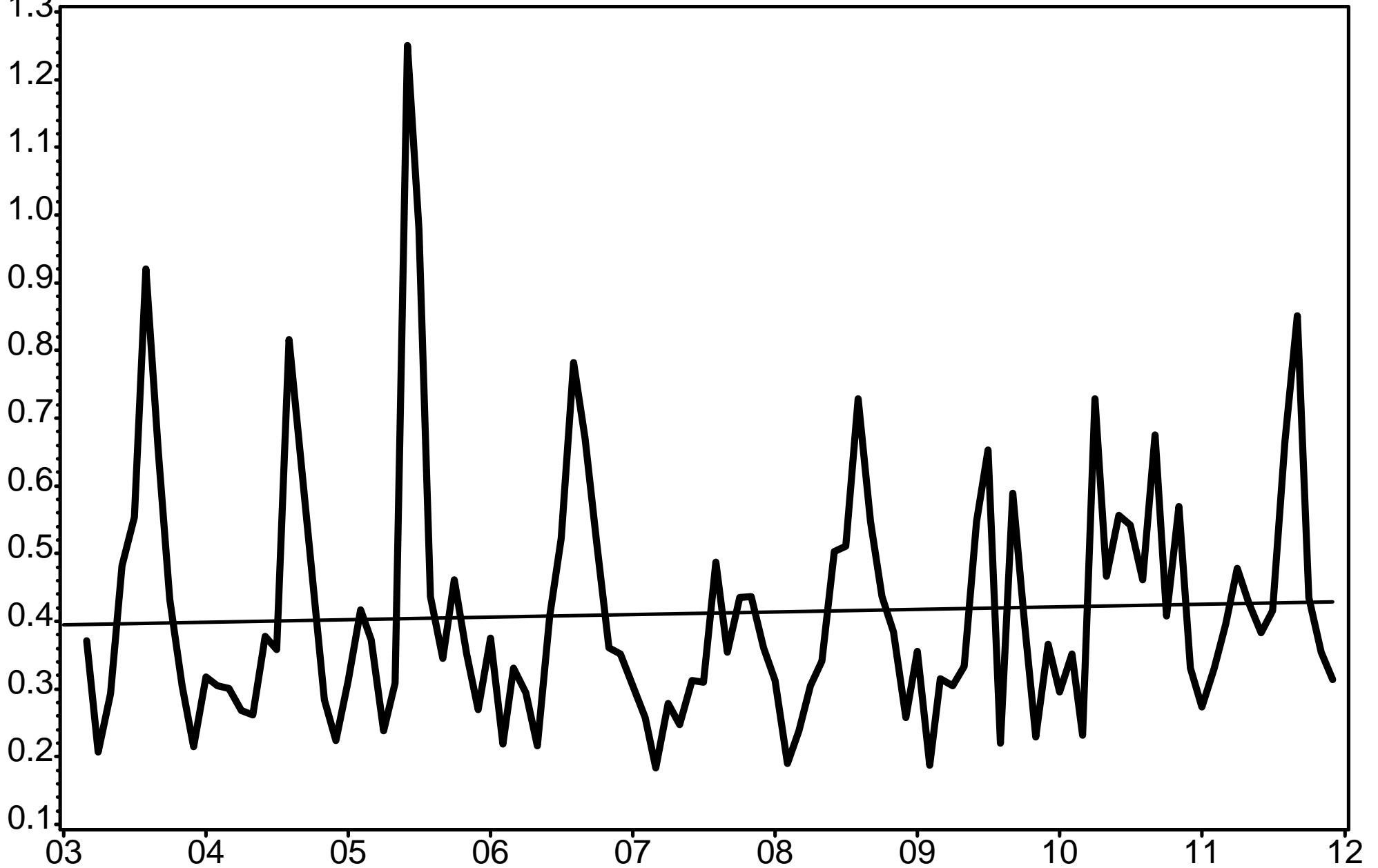
Dona and Roberts Bay Trends Appendix - Display 511

Monthly Data Time Series

for Surface Total Organic Carbon in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

TN_mgl
(mg/l)



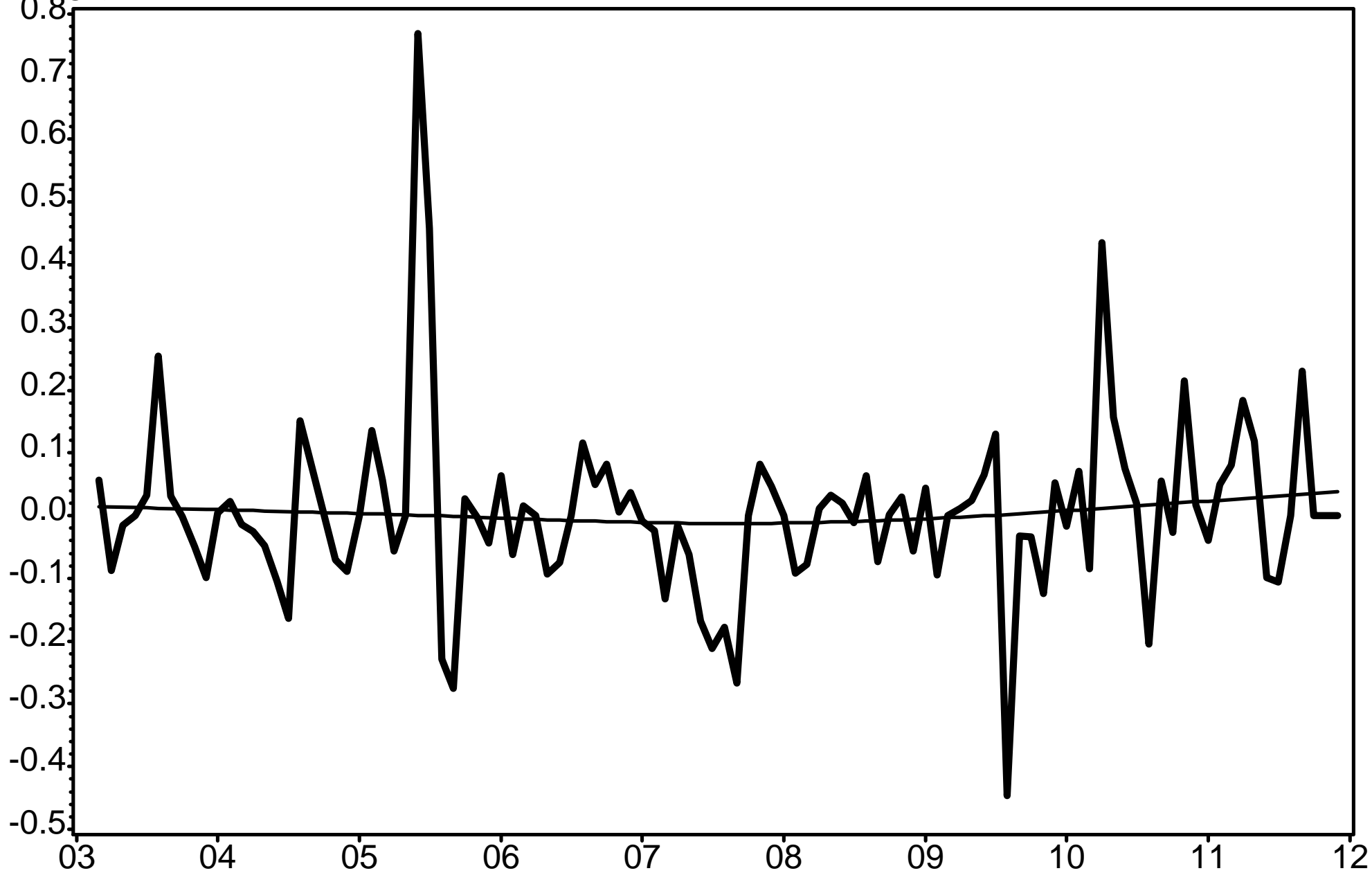
Dona and Roberts Bay Trends Appendix - Display 512

Monthly Data Time Series

for Surface Total Organic Carbon in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

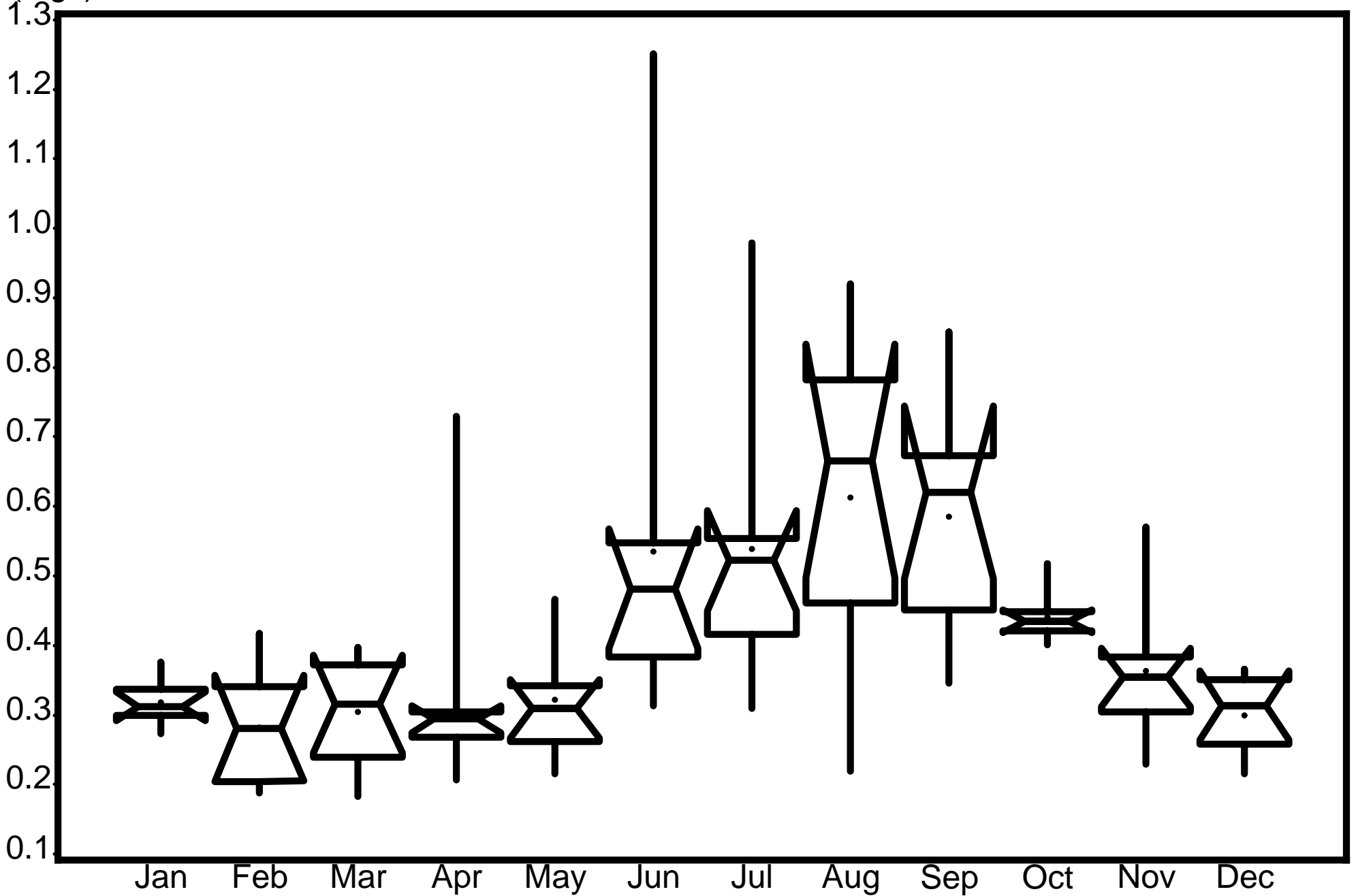


Dona and Roberts Bay Trends Appendix - Display 513

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Dona and Roberts Bay

TN_mgl
(mg/l)



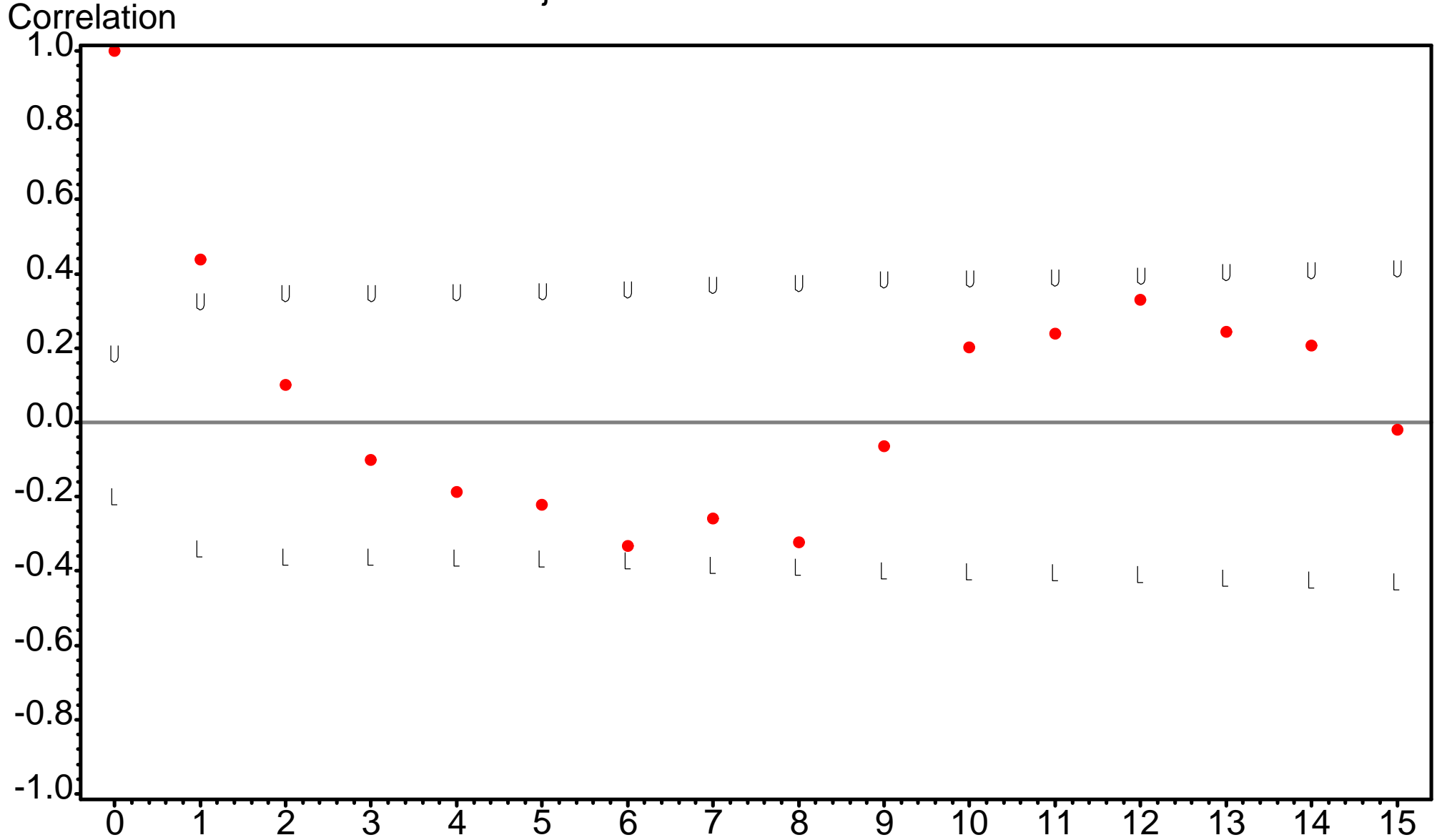
Dona and Roberts Bay Trends Appendix - Display 514
Autocorrelation Statistics for Surface Total Organic Carbon in Dona and Roberts Bay

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.439	0.167	0.333	-0.333
2	0.100	0.177	0.354	-0.354
3	-0.101	0.178	0.355	-0.355
4	-0.188	0.178	0.356	-0.356
5	-0.221	0.180	0.360	-0.360
6	-0.332	0.182	0.365	-0.365
7	-0.259	0.188	0.376	-0.376
8	-0.322	0.191	0.382	-0.382
9	-0.064	0.196	0.392	-0.392
10	0.203	0.196	0.393	-0.393
11	0.239	0.198	0.397	-0.397
12	0.329	0.201	0.402	-0.402
13	0.244	0.206	0.412	-0.412
14	0.208	0.209	0.417	-0.417
15	-0.020	0.210	0.421	-0.421

Dona and Roberts Bay Trends Appendix - Display 515

Correlogram for Surface Total Organic Carbon in Dona and Roberts Bay

Unadjusted for Seasonal Median



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 516
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.116	0.082	0.082	.009

Dona and Roberts Bay Trends Appendix - Display 517
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Dona and Roberts Bay
Adjusted for Seasonal Medians

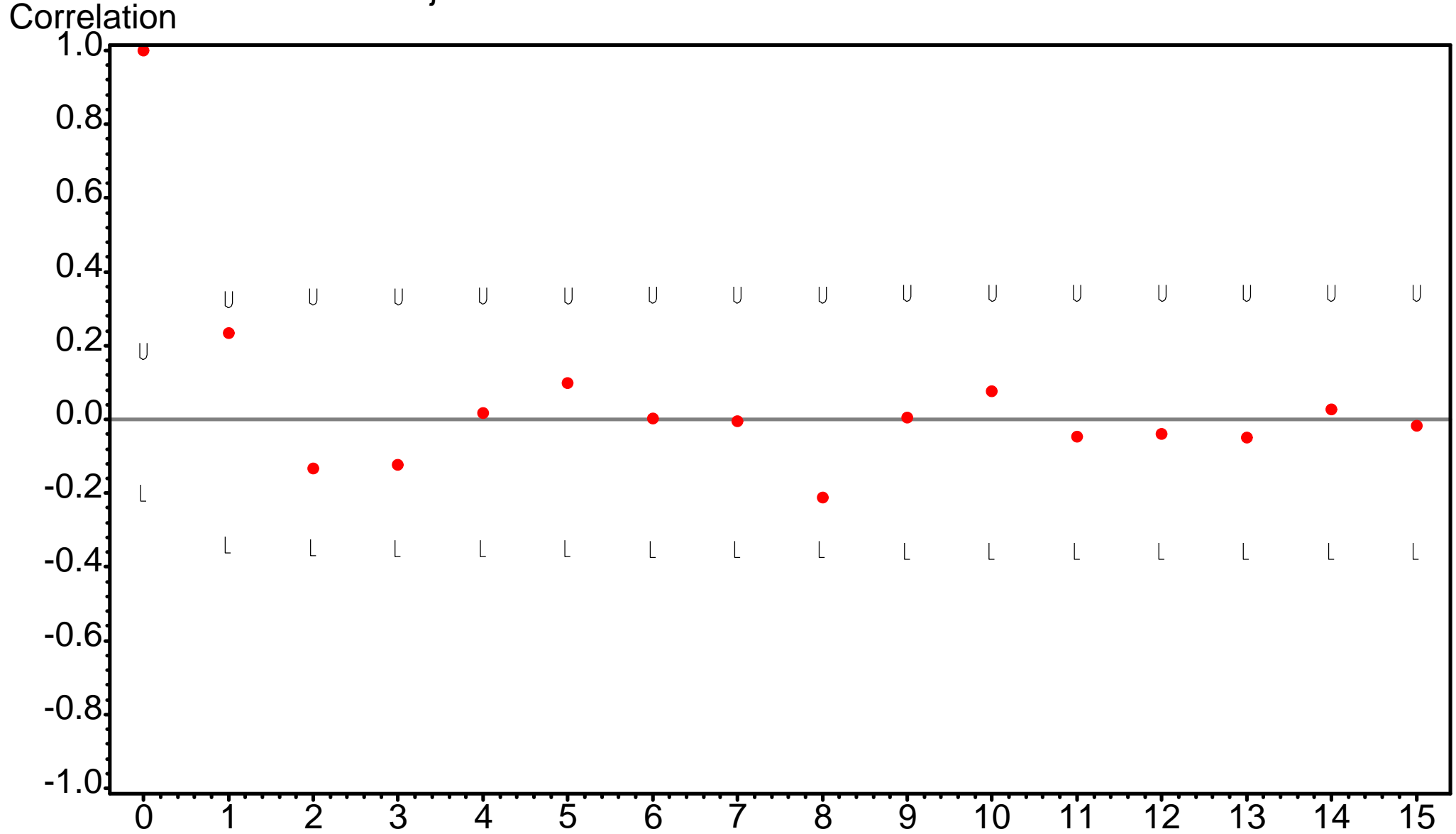
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1125	0.16291	0.17838	.00525

Dona and Roberts Bay Trends Appendix - Display 519
Autocorrelation Statistics for Surface Total Organic Carbon in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.235	0.167	0.333	-0.333
2	-0.134	0.170	0.339	-0.339
3	-0.124	0.171	0.341	-0.341
4	0.018	0.172	0.343	-0.343
5	0.098	0.172	0.343	-0.343
6	0.003	0.172	0.344	-0.344
7	-0.005	0.172	0.344	-0.344
8	-0.212	0.172	0.344	-0.344
9	0.005	0.174	0.349	-0.349
10	0.076	0.174	0.349	-0.349
11	-0.046	0.175	0.350	-0.350
12	-0.040	0.175	0.350	-0.350
13	-0.050	0.175	0.350	-0.350
14	0.026	0.175	0.350	-0.350
15	-0.018	0.175	0.350	-0.350

Dona and Roberts Bay Trends Appendix - Display 520

Correlogram for Surface Total Organic Carbon in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

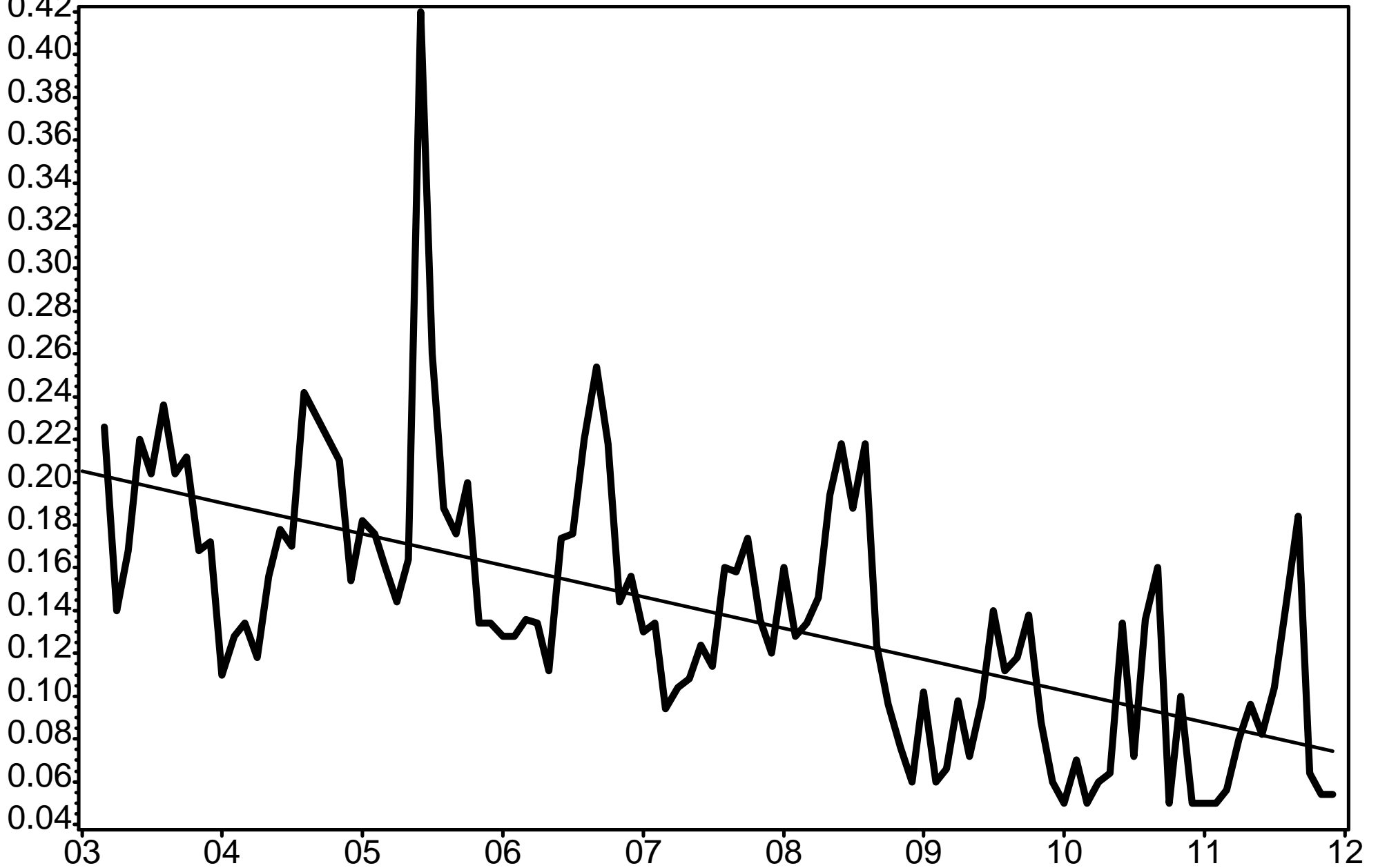
Dona and Roberts Bay Trends Appendix - Display 521

Monthly Data Time Series

for Surface Total Phosphorous in Dona and Roberts Bay

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



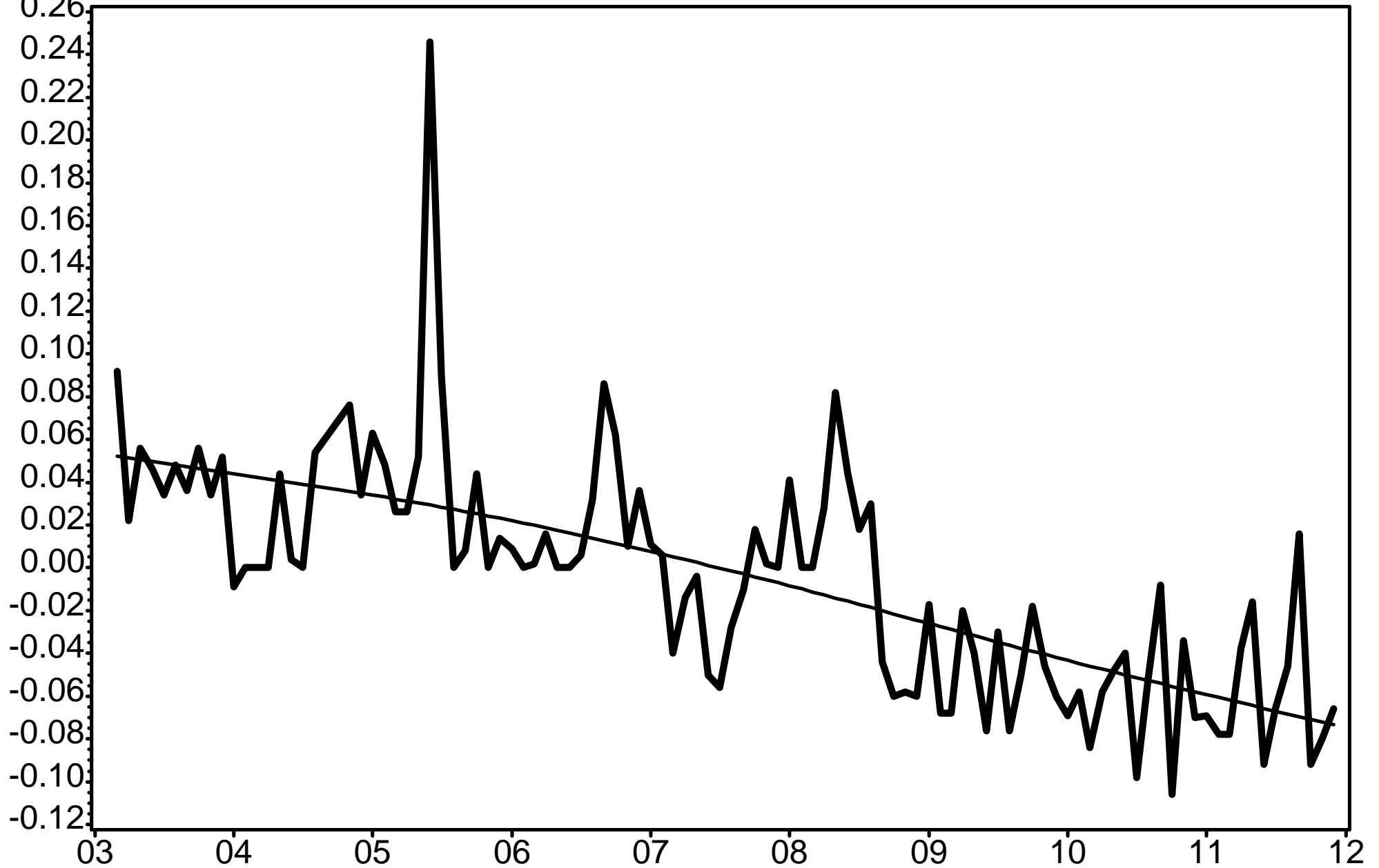
Dona and Roberts Bay Trends Appendix - Display 522

Monthly Data Time Series

for Surface Total Phosphorous in Dona and Roberts Bay

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

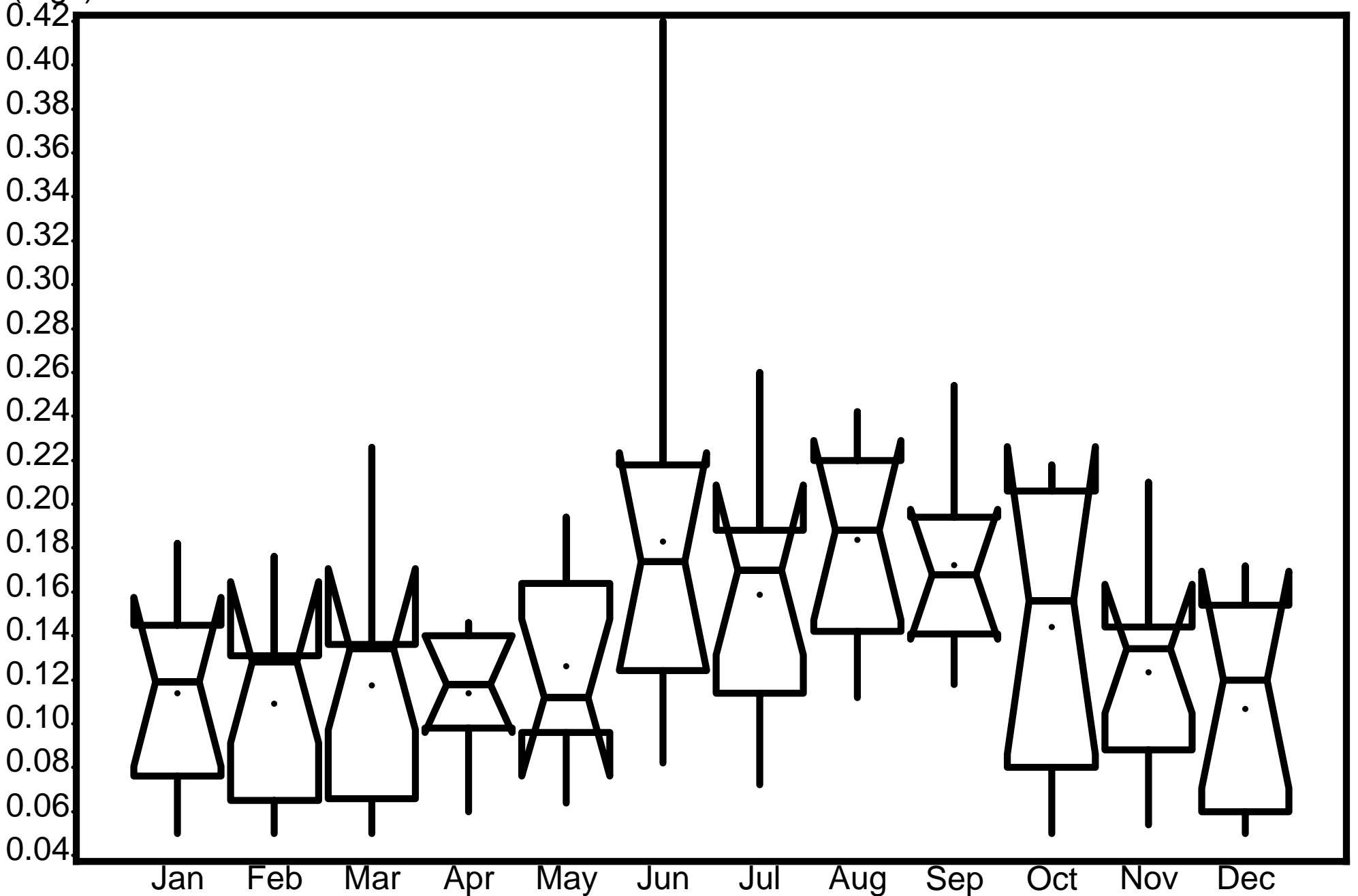


Dona and Roberts Bay Trends Appendix - Display 523

Seasonal Univariate Statistics

for Surface Total Phosphorous in Dona and Roberts Bay

TP_mgl
(mg/l)

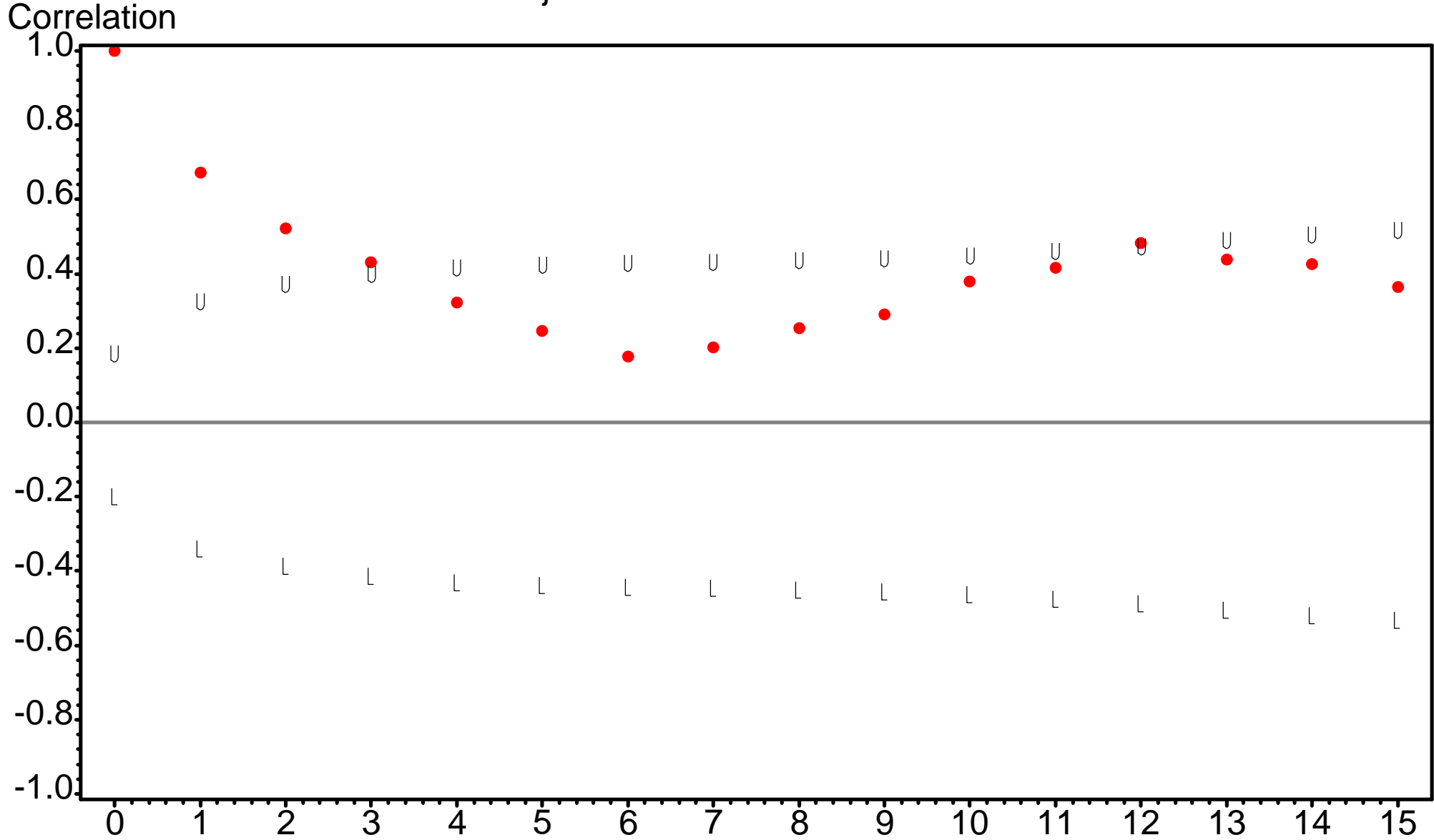


Dona and Roberts Bay Trends Appendix - Display 524
Autocorrelation Statistics for Surface Total Phosphorous in Dona and Roberts Bay

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.672	0.167	0.333	-0.333
2	0.522	0.190	0.380	-0.380
3	0.431	0.203	0.406	-0.406
4	0.322	0.211	0.423	-0.423
5	0.246	0.216	0.432	-0.432
6	0.178	0.218	0.437	-0.437
7	0.201	0.220	0.439	-0.439
8	0.253	0.221	0.443	-0.443
9	0.290	0.224	0.448	-0.448
10	0.379	0.227	0.455	-0.455
11	0.416	0.233	0.467	-0.467
12	0.482	0.240	0.480	-0.480
13	0.439	0.249	0.498	-0.498
14	0.427	0.256	0.512	-0.512
15	0.365	0.262	0.525	-0.525

Dona and Roberts Bay Trends Appendix - Display 525

Correlogram for Surface Total Phosphorous in Dona and Roberts Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 526
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.472	0	0	-0.015

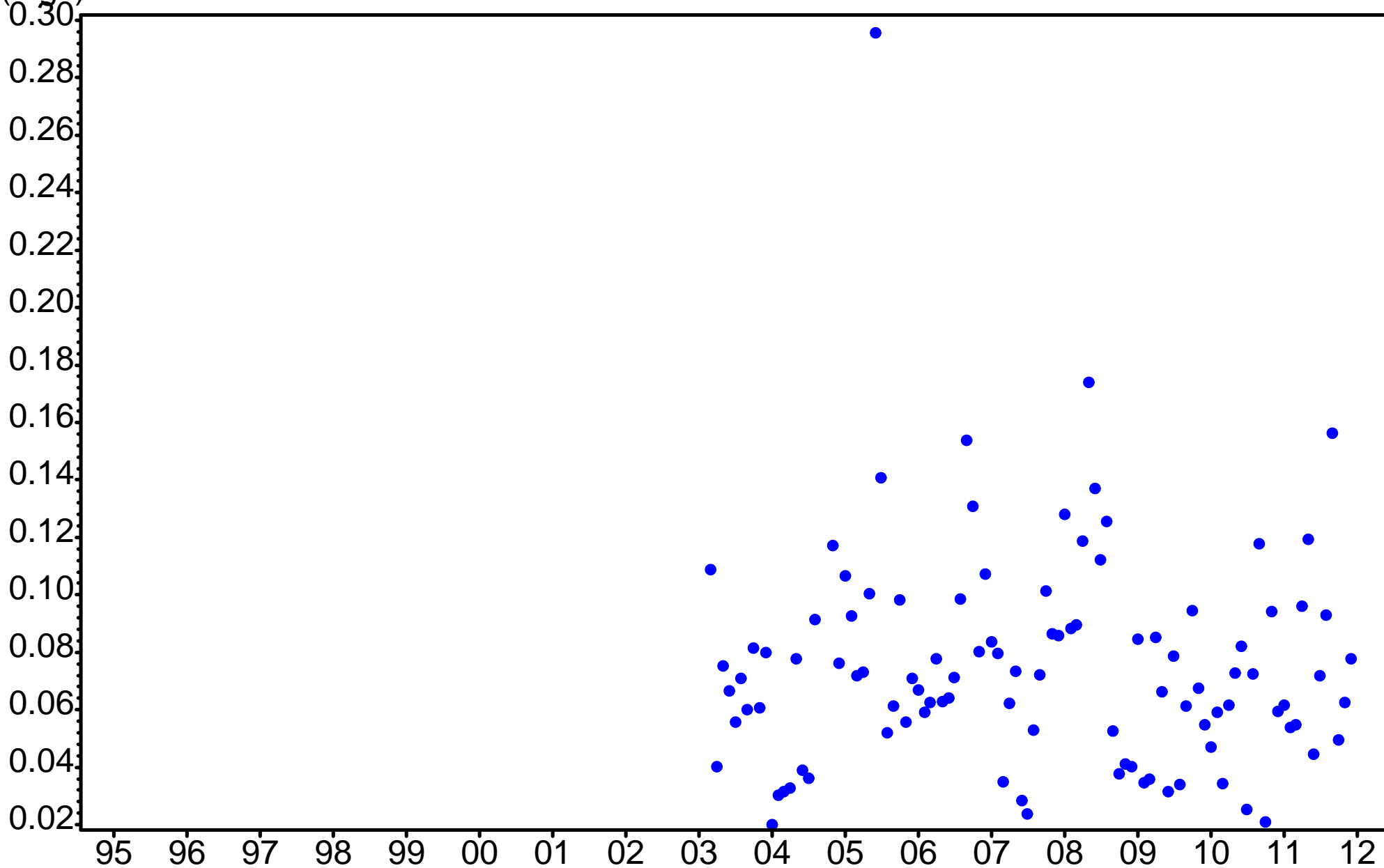
Dona and Roberts Bay Trends Appendix - Display 527
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.6	0	.00566796	-0.0145

Dona and Roberts Bay Trends Appendix - Display 528

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Dona and Roberts Bay

Adjusted
(mg/l)



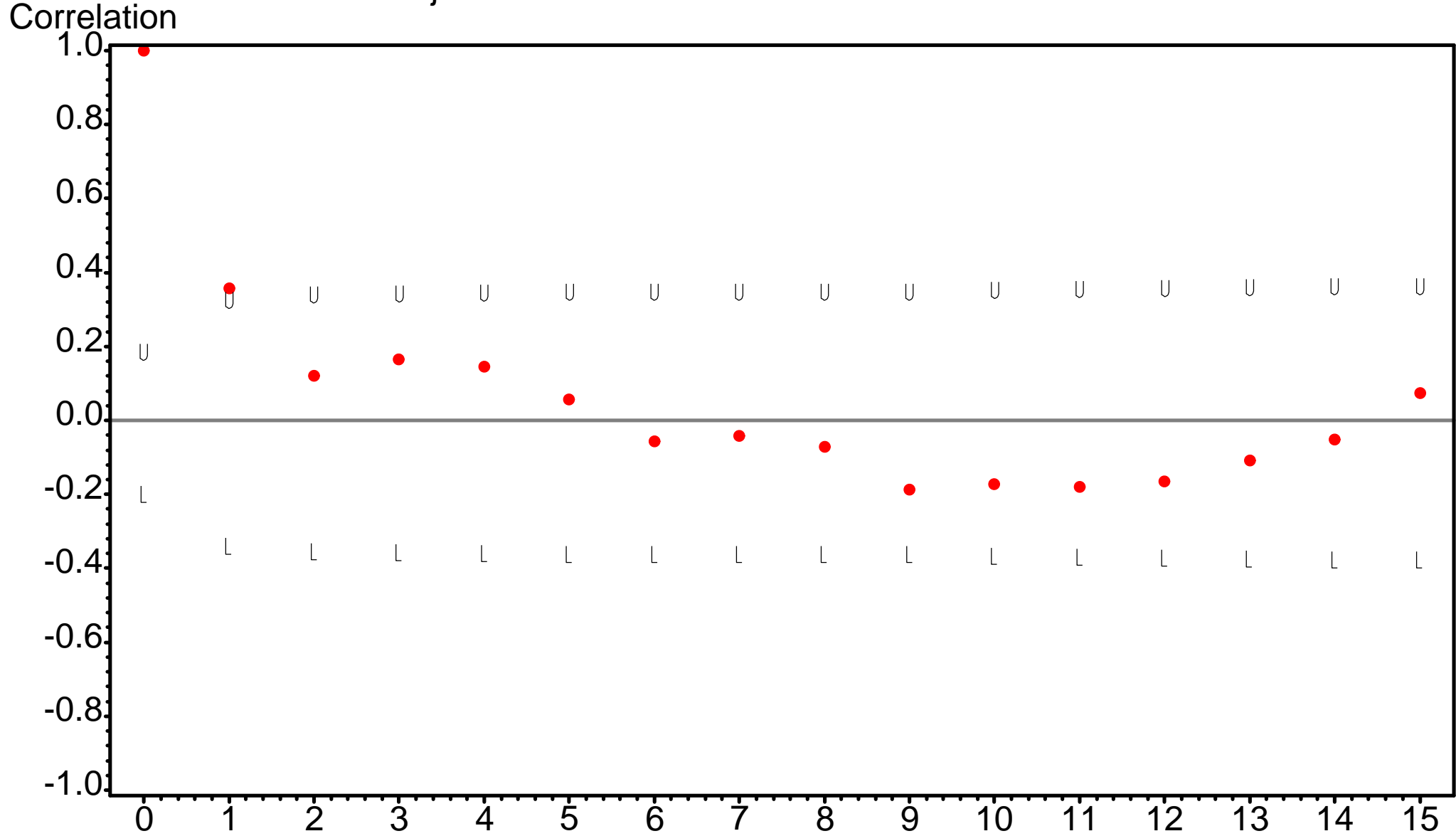
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 529
Autocorrelation Statistics for Surface Total Phosphorous in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.358	0.167	0.333	-0.333
2	0.121	0.174	0.347	-0.347
3	0.165	0.174	0.349	-0.349
4	0.145	0.176	0.352	-0.352
5	0.057	0.177	0.354	-0.354
6	-0.057	0.177	0.354	-0.354
7	-0.042	0.177	0.355	-0.355
8	-0.071	0.177	0.355	-0.355
9	-0.188	0.178	0.355	-0.355
10	-0.172	0.179	0.359	-0.359
11	-0.179	0.181	0.362	-0.362
12	-0.166	0.183	0.365	-0.365
13	-0.108	0.184	0.368	-0.368
14	-0.051	0.185	0.369	-0.369
15	0.073	0.185	0.370	-0.370

Dona and Roberts Bay Trends Appendix - Display 530

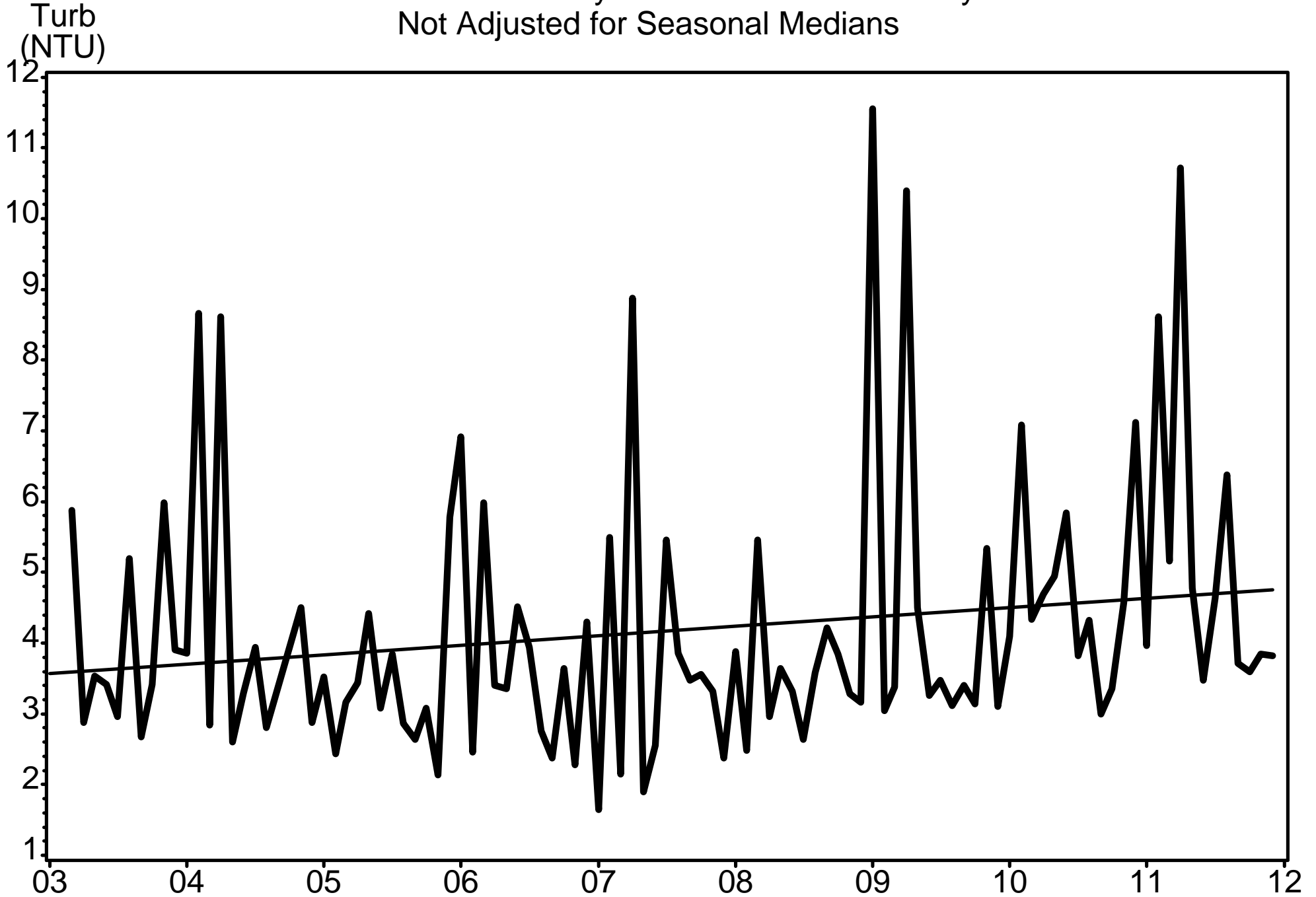
Correlogram for Surface Total Phosphorous in Dona and Roberts Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 531

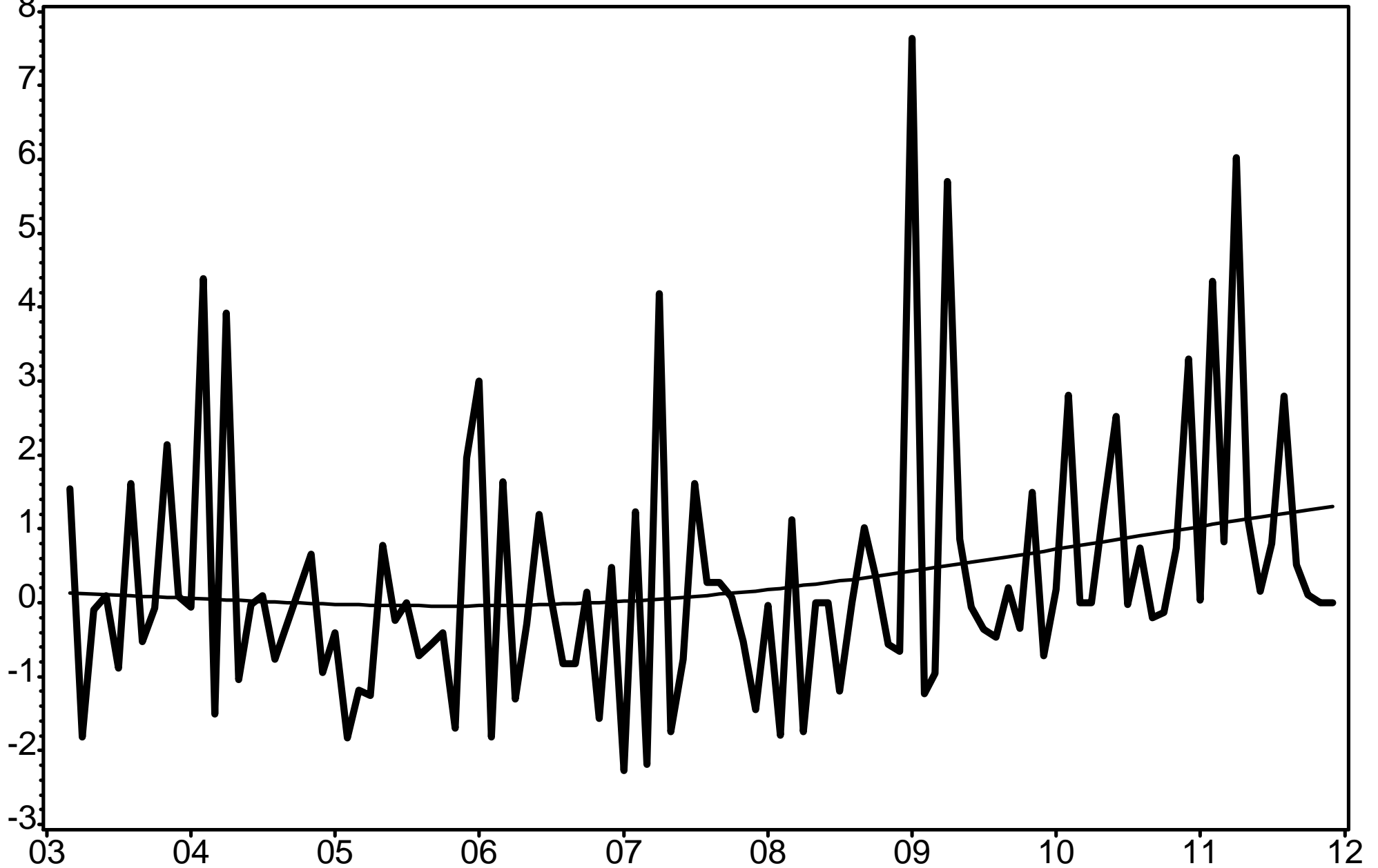
Monthly Data Time Series
for Surface Turbidity in Dona and Roberts Bay
Not Adjusted for Seasonal Medians



Dona and Roberts Bay Trends Appendix - Display 532

Monthly Data Time Series
for Surface Turbidity in Dona and Roberts Bay
Adjusted for Seasonal Medians

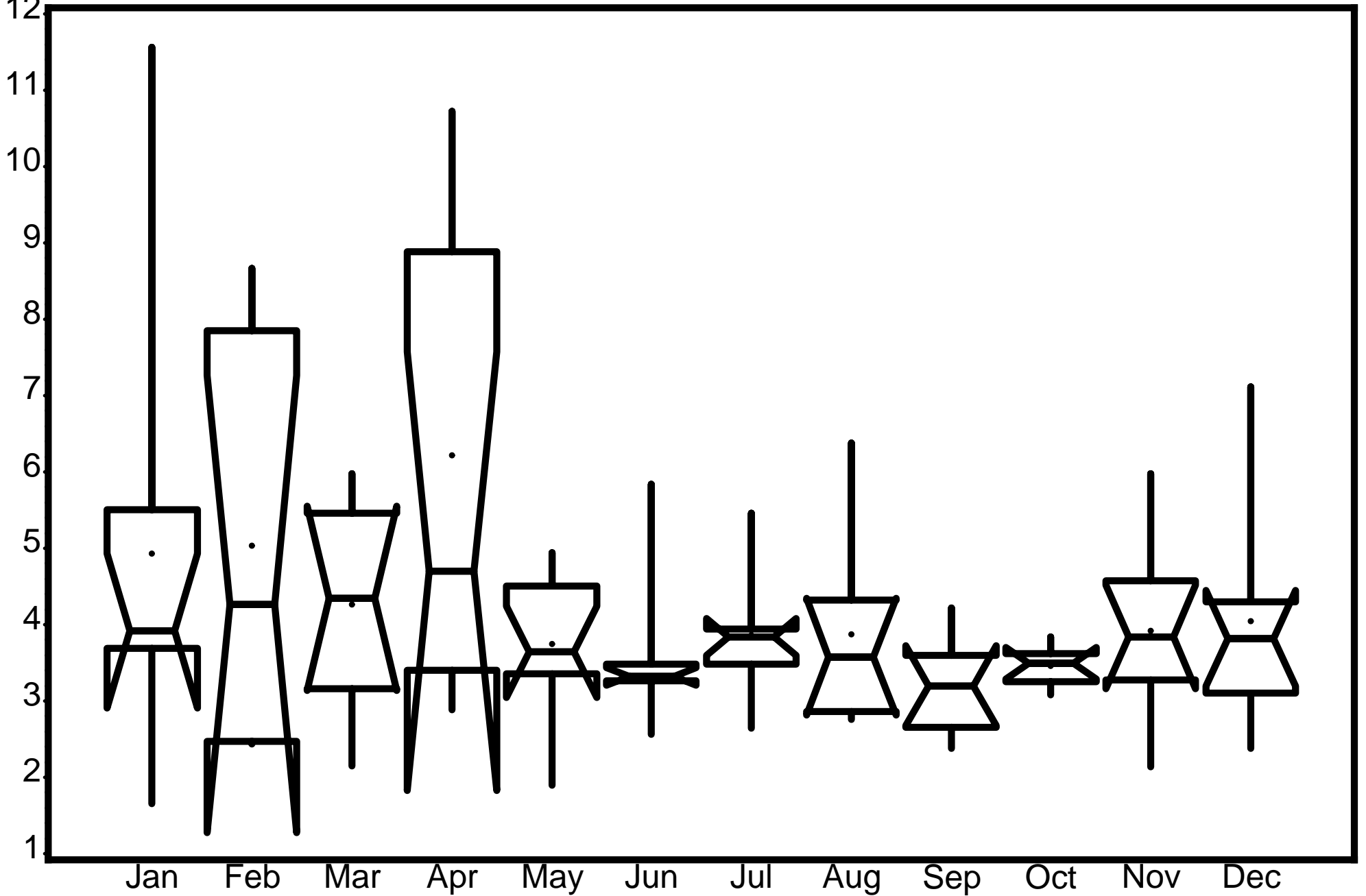
Adjusted
Turb
(NTU)



Dona and Roberts Bay Trends Appendix - Display 533

Seasonal Univariate Statistics for Surface Turbidity in Dona and Roberts Bay

Turb
(NTU)

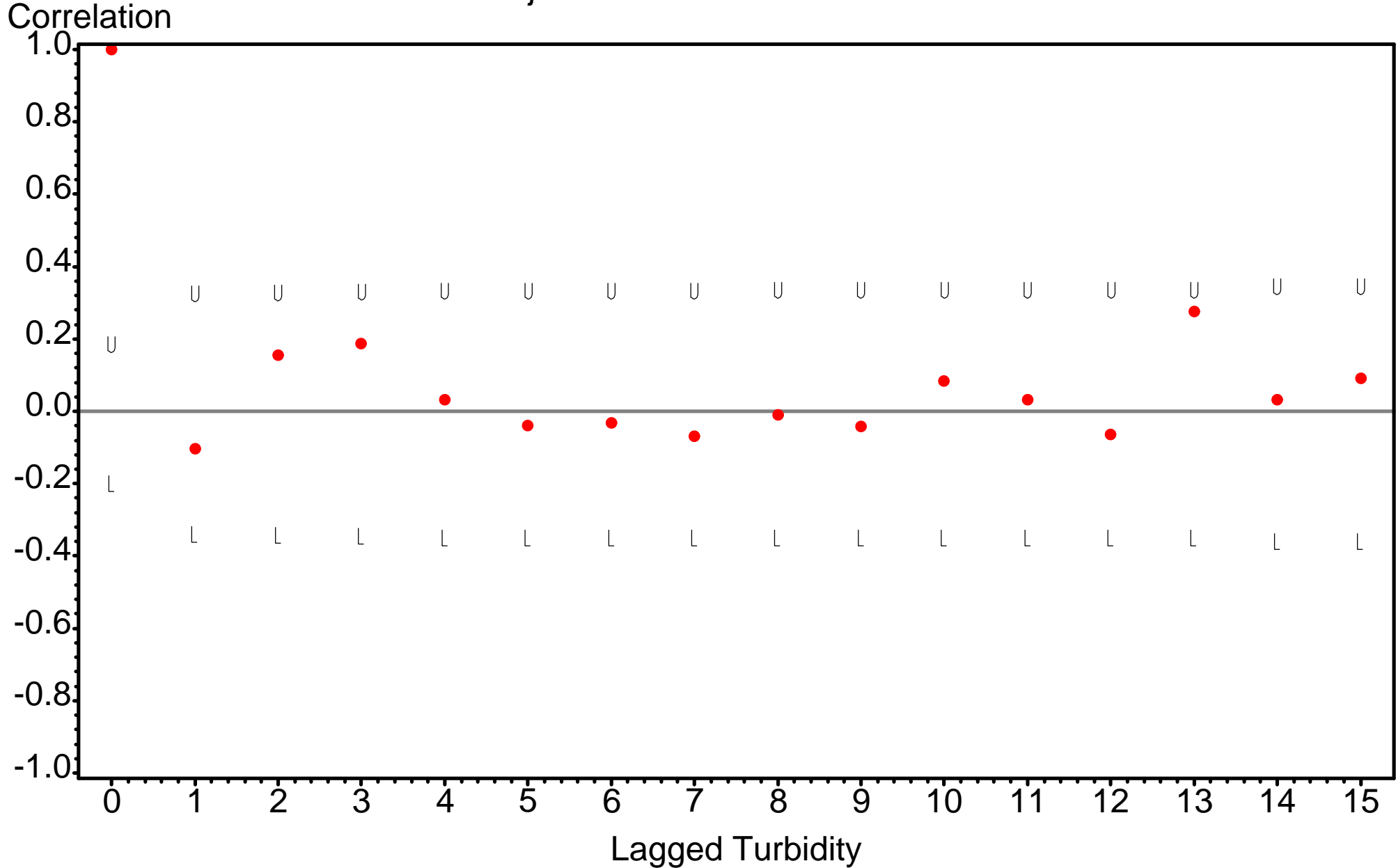


Dona and Roberts Bay Trends Appendix - Display 534
Autocorrelation Statistics for Surface Turbidity in Dona and Roberts Bay

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.103	0.167	0.333	-0.333
2	0.156	0.167	0.335	-0.335
3	0.187	0.169	0.337	-0.337
4	0.033	0.171	0.341	-0.341
5	-0.039	0.171	0.341	-0.341
6	-0.033	0.171	0.341	-0.341
7	-0.069	0.171	0.341	-0.341
8	-0.011	0.171	0.342	-0.342
9	-0.043	0.171	0.342	-0.342
10	0.084	0.171	0.342	-0.342
11	0.031	0.171	0.343	-0.343
12	-0.063	0.172	0.343	-0.343
13	0.277	0.172	0.343	-0.343
14	0.033	0.176	0.352	-0.352
15	0.091	0.176	0.352	-0.352

Dona and Roberts Bay Trends Appendix - Display 535

Correlogram for Surface Turbidity in Dona and Roberts Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Dona and Roberts Bay Trends Appendix - Display 536
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Dona and Roberts Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.161	0.016	0.016	0.108

Dona and Roberts Bay Trends Appendix - Display 537
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Dona and Roberts Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.2375	.00290108	0.042524	0.113

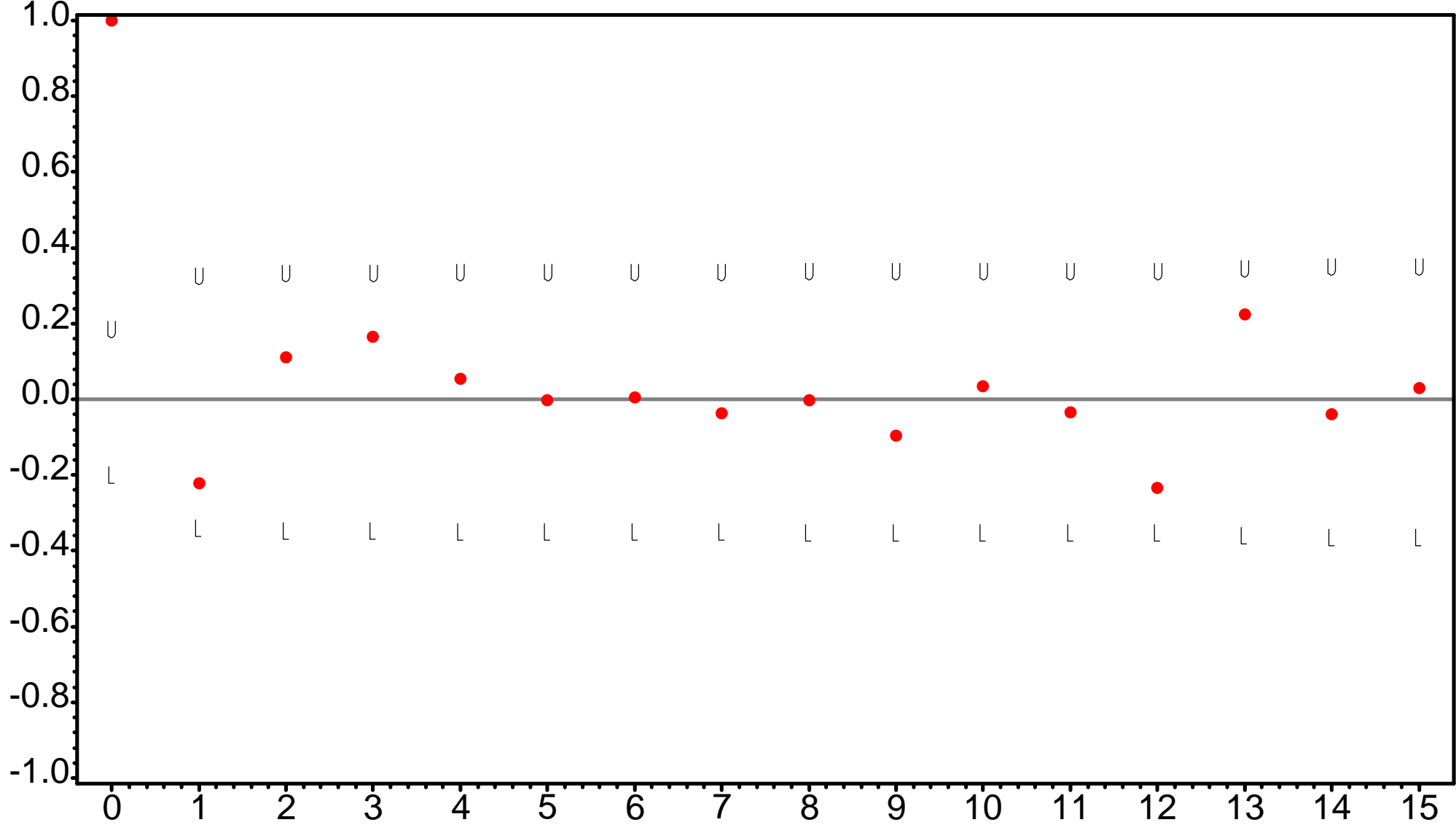
Dona and Roberts Bay Trends Appendix - Display 539
Autocorrelation Statistics for Surface Turbidity in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.222	0.167	0.333	-0.333
2	0.111	0.169	0.339	-0.339
3	0.165	0.170	0.340	-0.340
4	0.053	0.172	0.343	-0.343
5	-0.003	0.172	0.343	-0.343
6	0.005	0.172	0.343	-0.343
7	-0.037	0.172	0.343	-0.343
8	-0.002	0.172	0.344	-0.344
9	-0.095	0.172	0.344	-0.344
10	0.034	0.172	0.345	-0.345
11	-0.035	0.172	0.345	-0.345
12	-0.234	0.172	0.345	-0.345
13	0.223	0.175	0.351	-0.351
14	-0.040	0.178	0.356	-0.356
15	0.029	0.178	0.356	-0.356

Dona and Roberts Bay Trends Appendix - Display 540

Correlogram for Surface Turbidity in Dona and Roberts Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

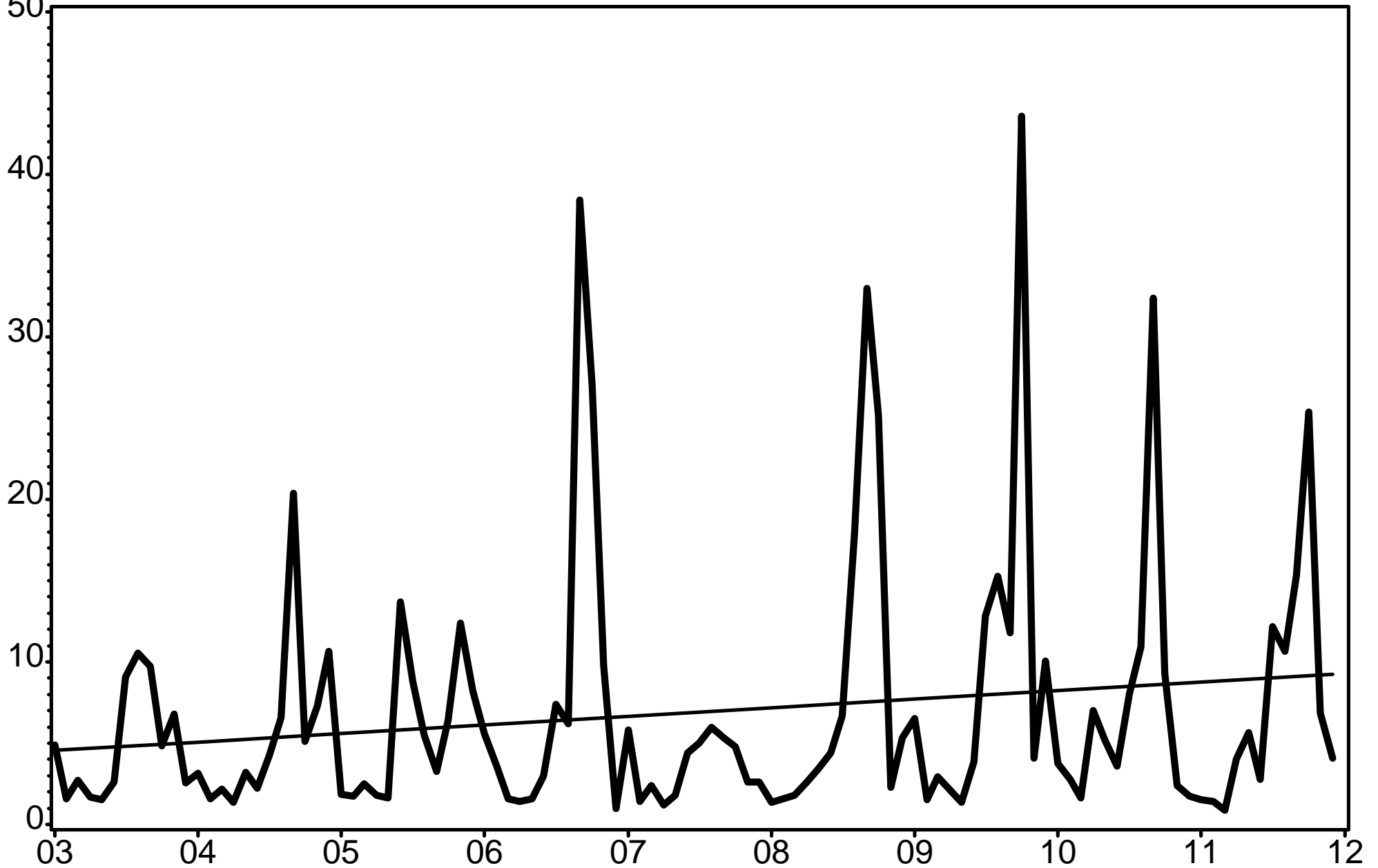
East Wall Trends Appendix - Display 541

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in East Wall

Not Adjusted for Seasonal Medians

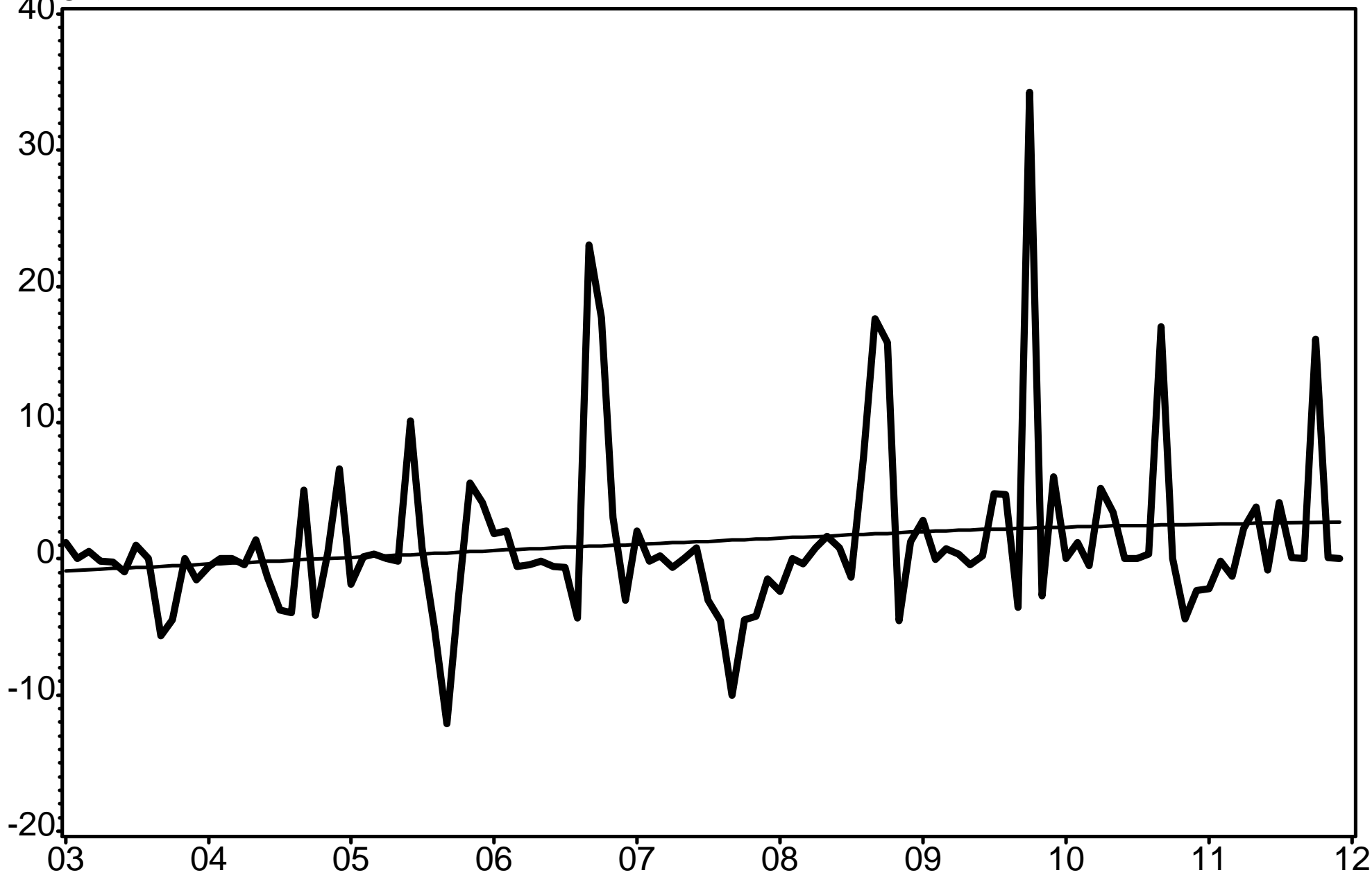
CHLAC_ugl
(ug/l)



East Wall Trends Appendix - Display 542

Monthly Data Time Series
for Surface Chlorophyll-a (Corrected) in East Wall
Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

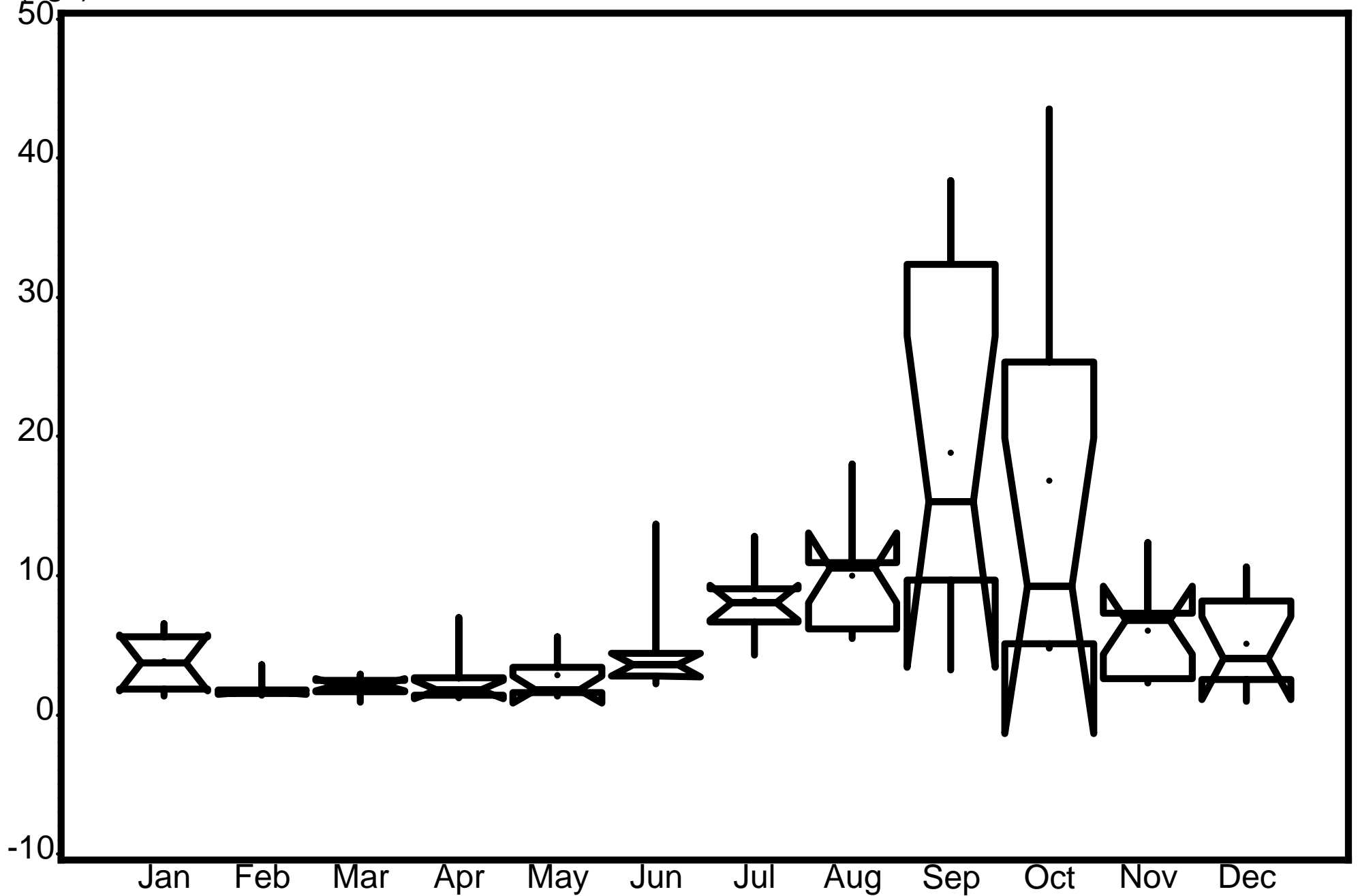


East Wall Trends Appendix - Display 543

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in East Wall

CHLAC_ugl
(ug/l)



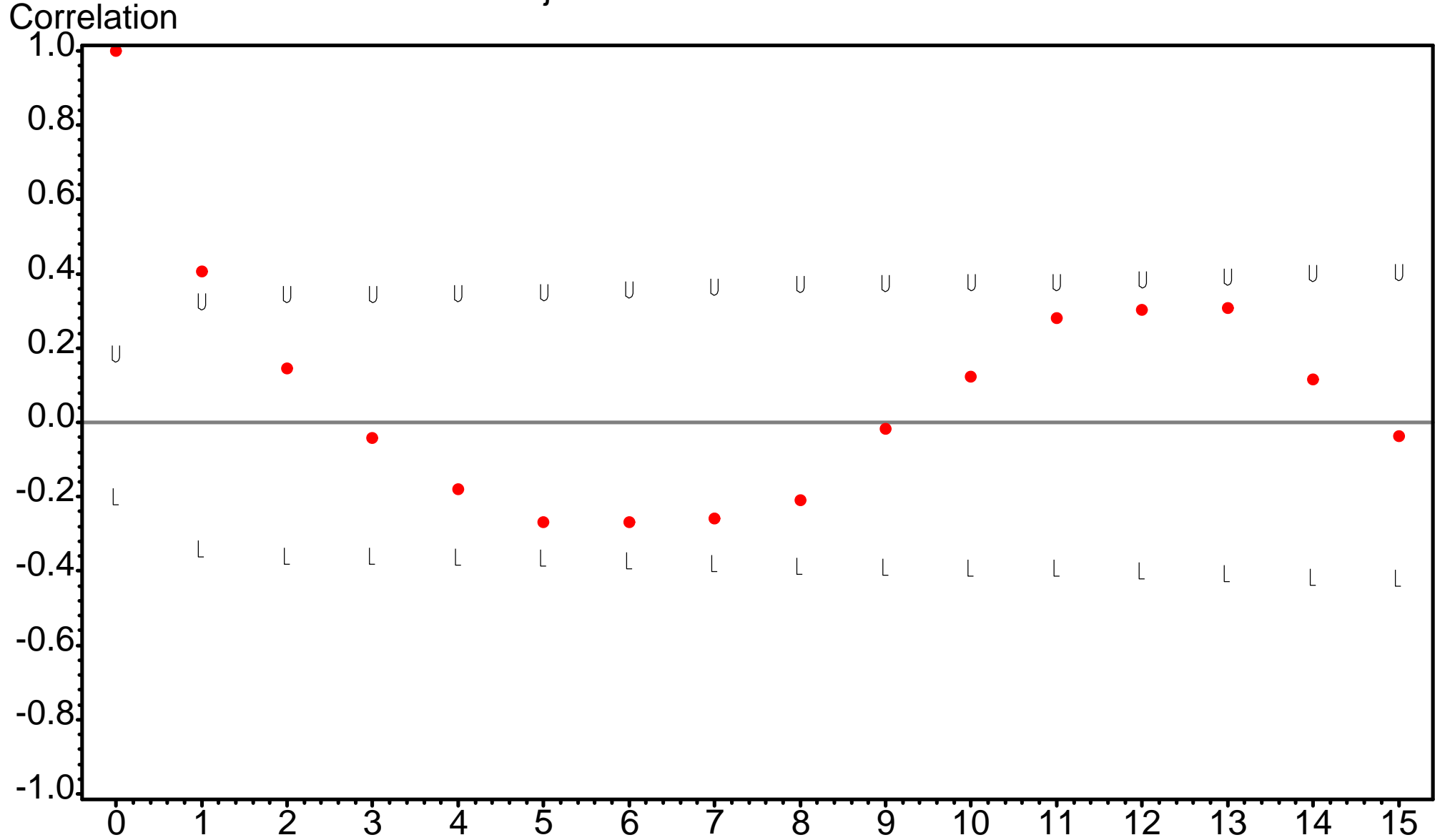
East Wall Trends Appendix - Display 544
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in East Wall

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.407	0.167	0.333	-0.333
2	0.145	0.176	0.351	-0.351
3	-0.041	0.177	0.353	-0.353
4	-0.179	0.177	0.354	-0.354
5	-0.269	0.178	0.357	-0.357
6	-0.268	0.182	0.364	-0.364
7	-0.258	0.186	0.372	-0.372
8	-0.210	0.189	0.378	-0.378
9	-0.017	0.191	0.382	-0.382
10	0.123	0.191	0.383	-0.383
11	0.281	0.192	0.384	-0.384
12	0.302	0.196	0.392	-0.392
13	0.307	0.200	0.400	-0.400
14	0.115	0.204	0.409	-0.409
15	-0.037	0.205	0.410	-0.410

East Wall Trends Appendix - Display 545

Correlogram for Surface Chlorophyll-a (Corrected) in East Wall

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 546
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in East Wall
Unadjusted for Seasonal Medians

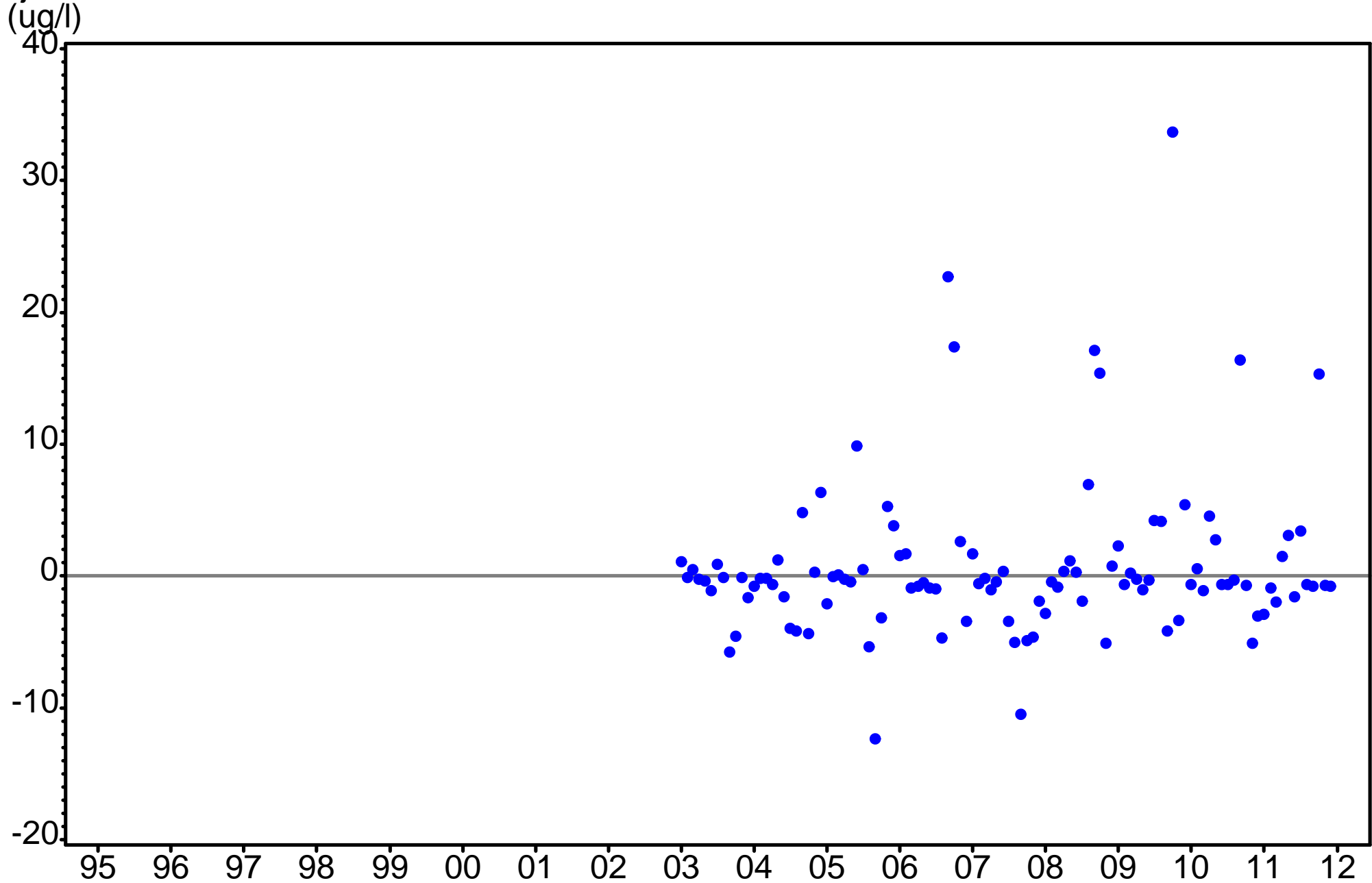
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.094	0.151	0.151	0.164

East Wall Trends Appendix - Display 547
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.094907	0.22843	0.23248	0.077464

East Wall Trends Appendix - Display 548

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted East Wall



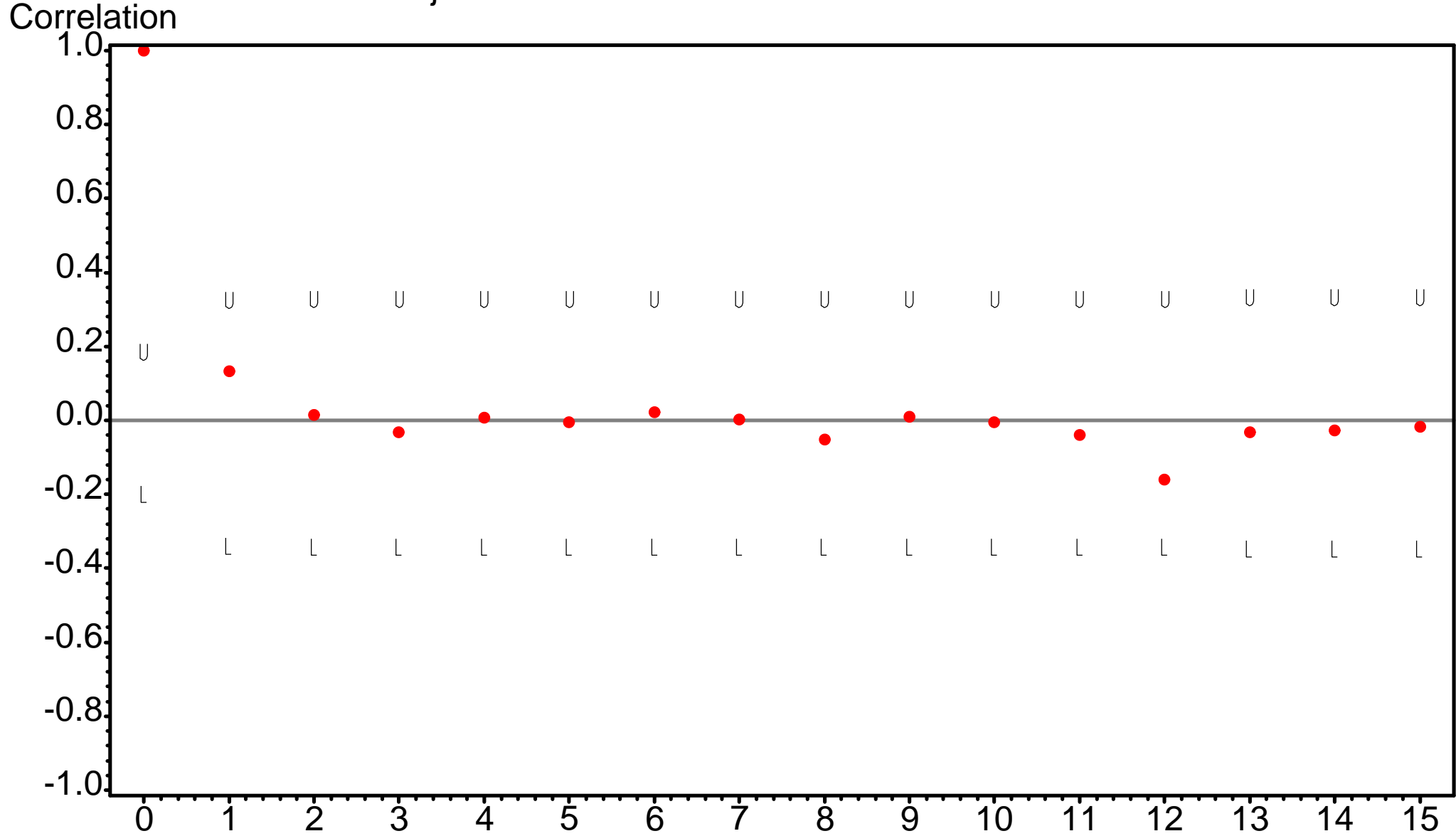
Zero Reference Line Shown

East Wall Trends Appendix - Display 549
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.134	0.167	0.333	-0.333
2	0.014	0.168	0.335	-0.335
3	-0.033	0.168	0.335	-0.335
4	0.008	0.168	0.335	-0.335
5	-0.005	0.168	0.335	-0.335
6	0.021	0.168	0.335	-0.335
7	0.002	0.168	0.336	-0.336
8	-0.051	0.168	0.336	-0.336
9	0.009	0.168	0.336	-0.336
10	-0.006	0.168	0.336	-0.336
11	-0.040	0.168	0.336	-0.336
12	-0.159	0.168	0.336	-0.336
13	-0.032	0.169	0.339	-0.339
14	-0.026	0.169	0.339	-0.339
15	-0.016	0.169	0.339	-0.339

East Wall Trends Appendix - Display 550

Correlogram for Surface Chlorophyll-a (Corrected) in East Wall Adjusted for Seasonal Median and Detrended



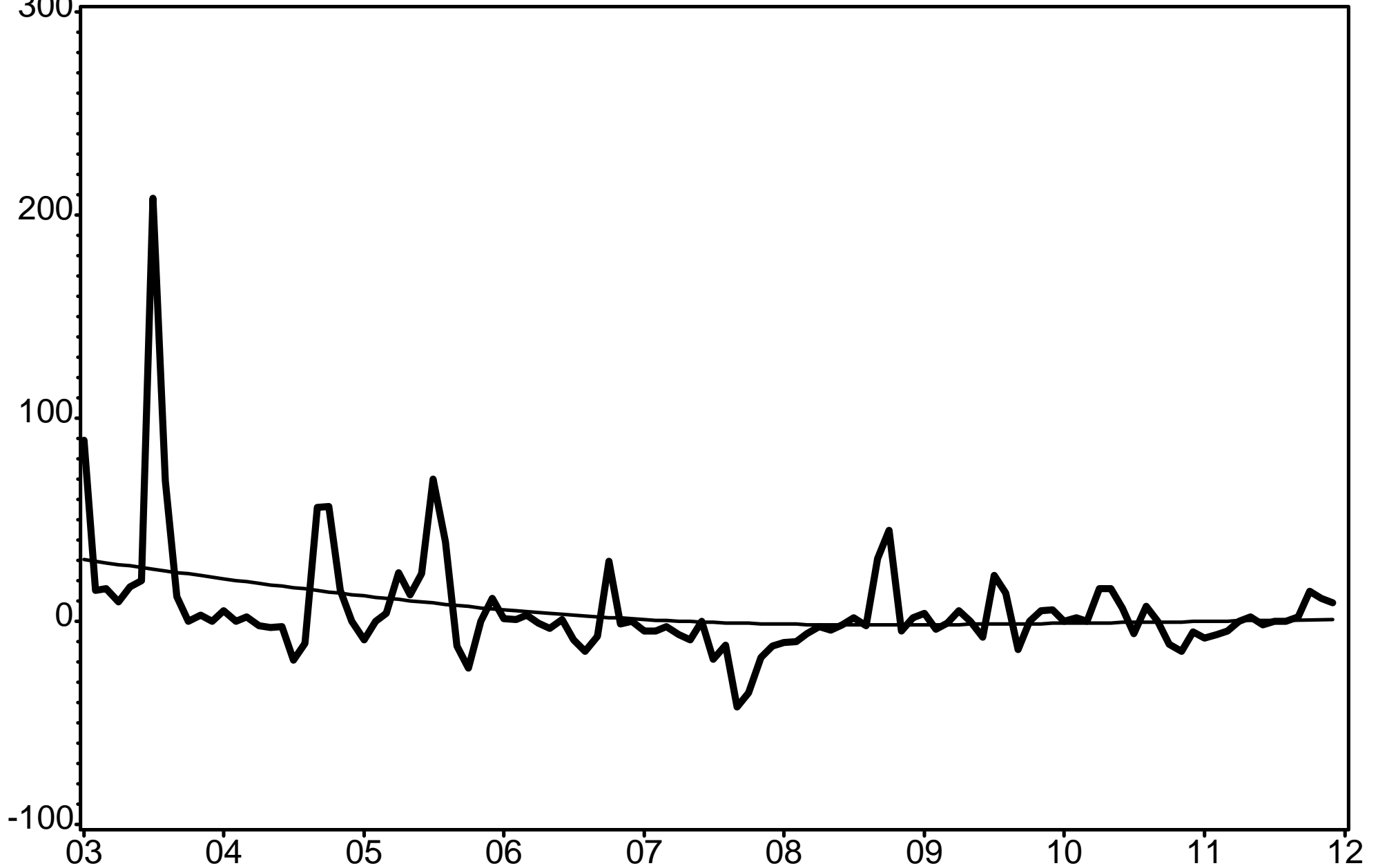
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 552

Monthly Data Time Series
for Surface Color in East Wall
Adjusted for Seasonal Medians

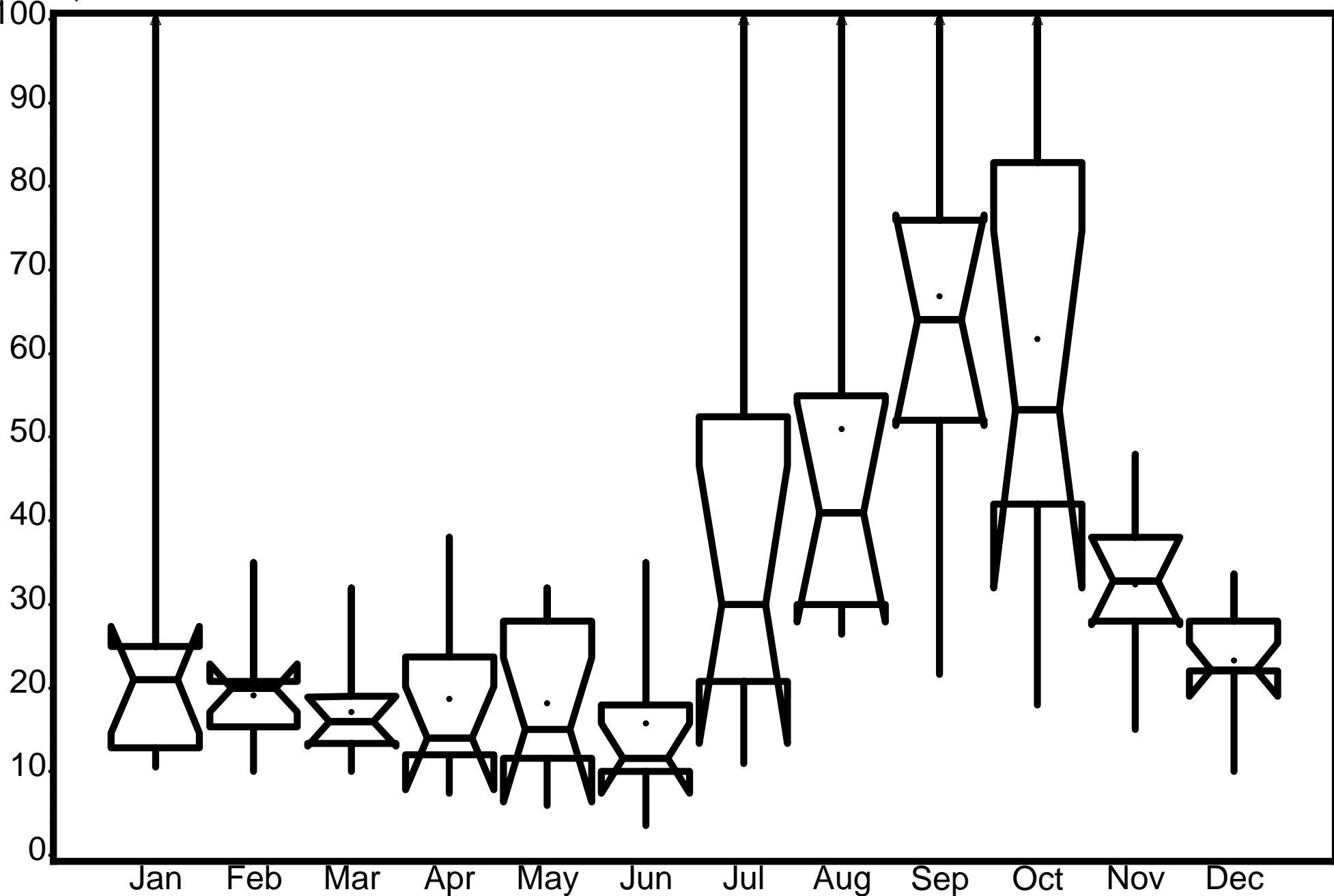
Adjusted
COLOR
(PCU)



East Wall Trends Appendix - Display 553

Seasonal Univariate Statistics
for Surface Color in East Wall

COLOR
(PCU)

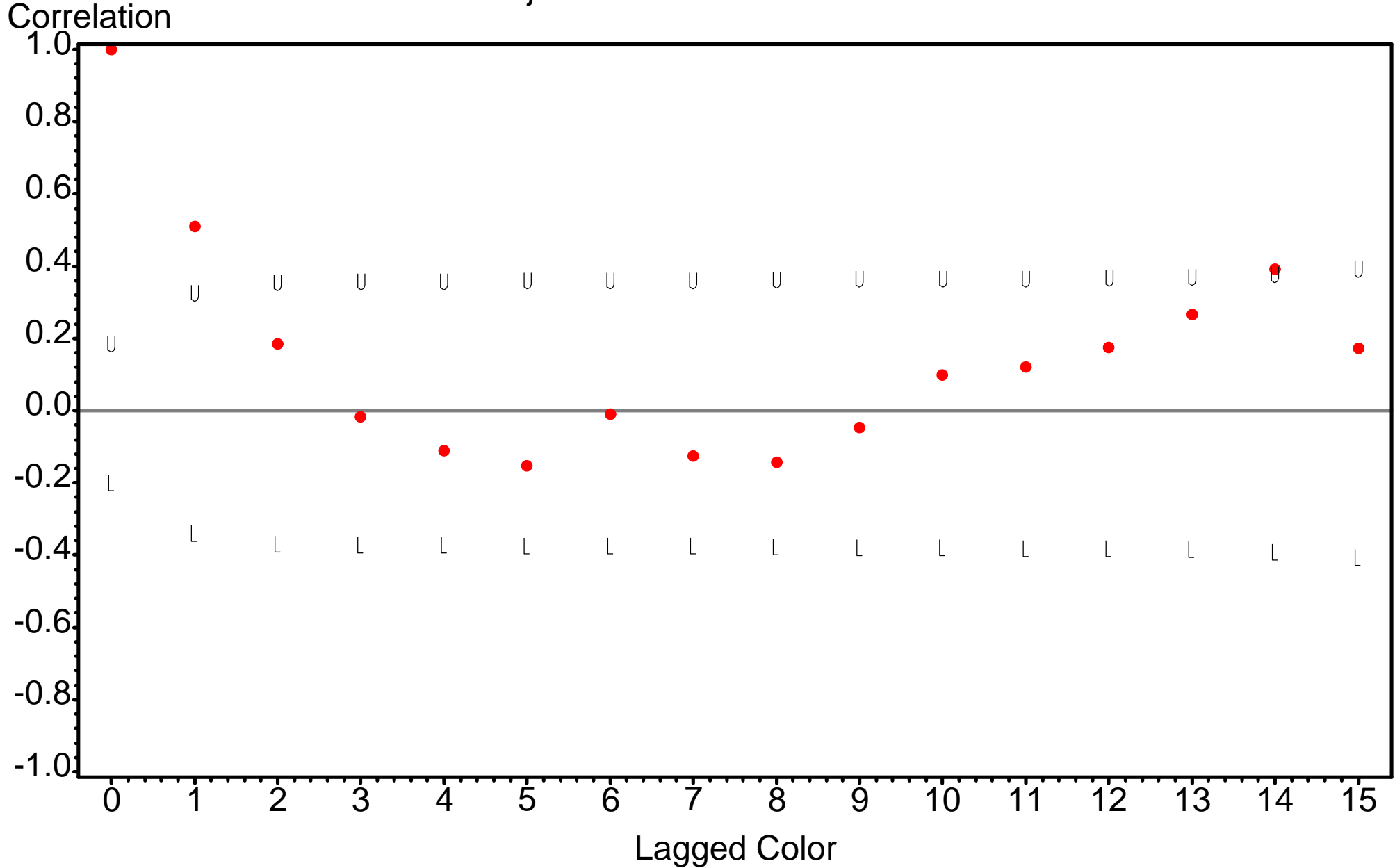


East Wall Trends Appendix - Display 554
Autocorrelation Statistics for Surface Color in East Wall

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.509	0.167	0.333	-0.333
2	0.184	0.180	0.361	-0.361
3	-0.018	0.182	0.364	-0.364
4	-0.111	0.182	0.364	-0.364
5	-0.152	0.183	0.366	-0.366
6	-0.009	0.184	0.368	-0.368
7	-0.125	0.184	0.368	-0.368
8	-0.143	0.185	0.370	-0.370
9	-0.047	0.186	0.372	-0.372
10	0.099	0.186	0.372	-0.372
11	0.120	0.186	0.373	-0.373
12	0.176	0.187	0.374	-0.374
13	0.265	0.189	0.377	-0.377
14	0.391	0.192	0.384	-0.384
15	0.172	0.199	0.399	-0.399

East Wall Trends Appendix - Display 555

Correlogram for Surface Color in East Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 556
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.102	0.118	0.118	-0.869

East Wall Trends Appendix - Display 557
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.16204	0.037487	0.26921	-1.05558

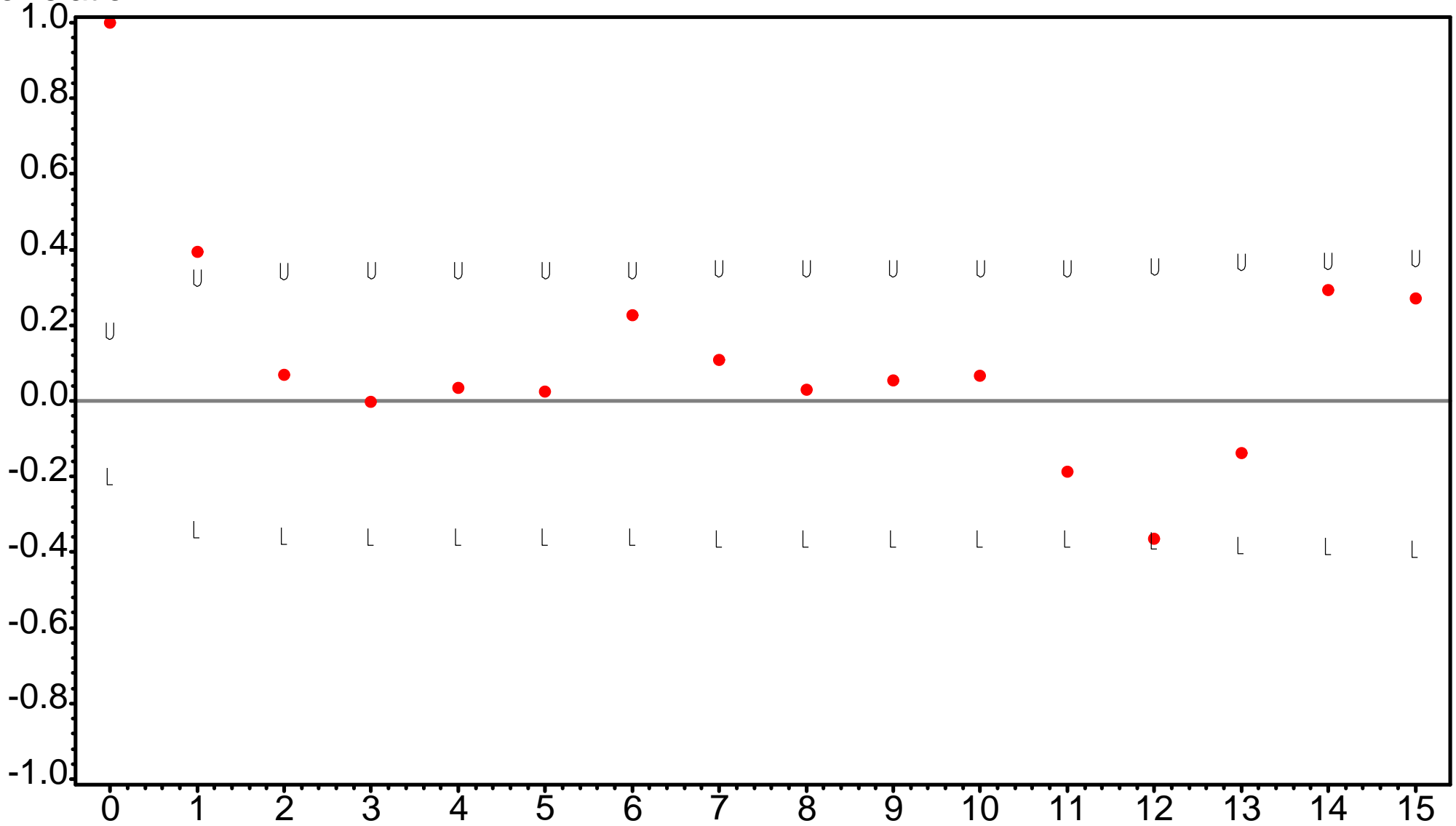
East Wall Trends Appendix - Display 559
Autocorrelation Statistics for Surface Color in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.394	0.167	0.333	-0.333
2	0.068	0.175	0.350	-0.350
3	-0.003	0.175	0.351	-0.351
4	0.034	0.175	0.351	-0.351
5	0.024	0.175	0.351	-0.351
6	0.227	0.175	0.351	-0.351
7	0.108	0.178	0.356	-0.356
8	0.029	0.179	0.357	-0.357
9	0.053	0.179	0.358	-0.358
10	0.067	0.179	0.358	-0.358
11	-0.188	0.179	0.358	-0.358
12	-0.364	0.181	0.362	-0.362
13	-0.139	0.188	0.375	-0.375
14	0.293	0.189	0.377	-0.377
15	0.271	0.193	0.385	-0.385

East Wall Trends Appendix - Display 560

Correlogram for Surface Color in East Wall
Adjusted for Seasonal Median and Detrended

Correlation



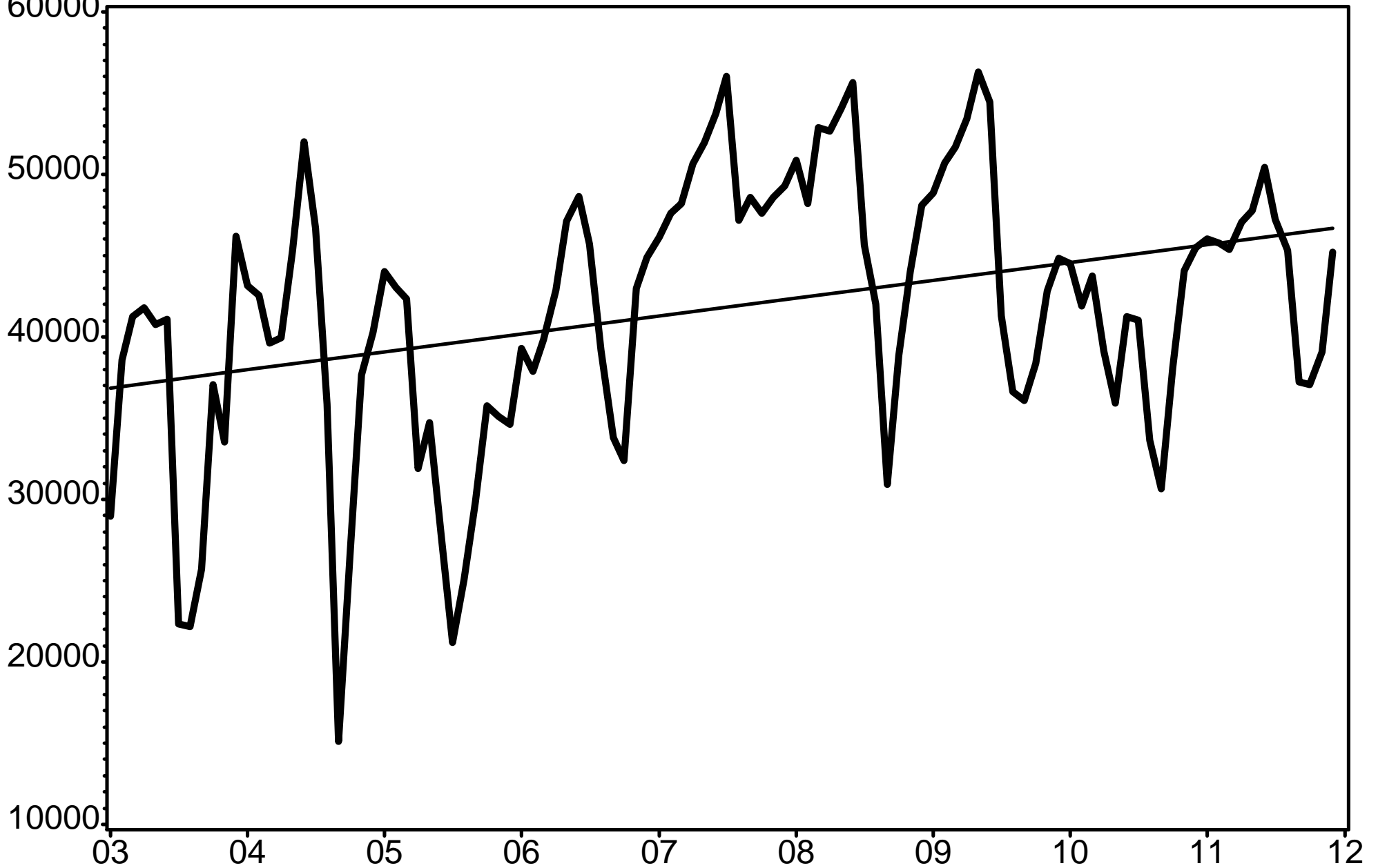
Lagged Color

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 561

Monthly Data Time Series
for Surface Specific Conductance in East Wall
Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



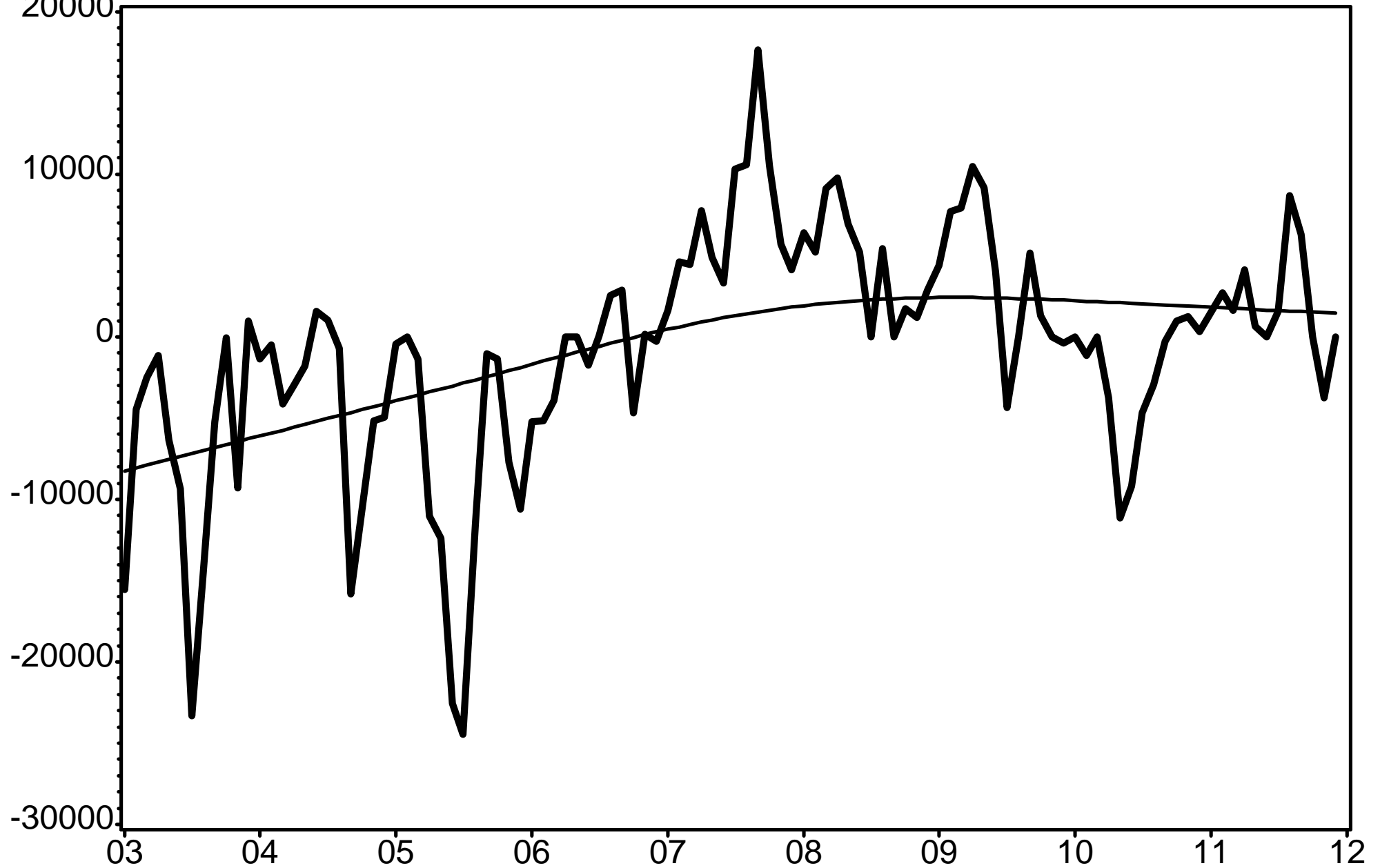
East Wall Trends Appendix - Display 562

Monthly Data Time Series

for Surface Specific Conductance in East Wall

Adjusted for Seasonal Medians

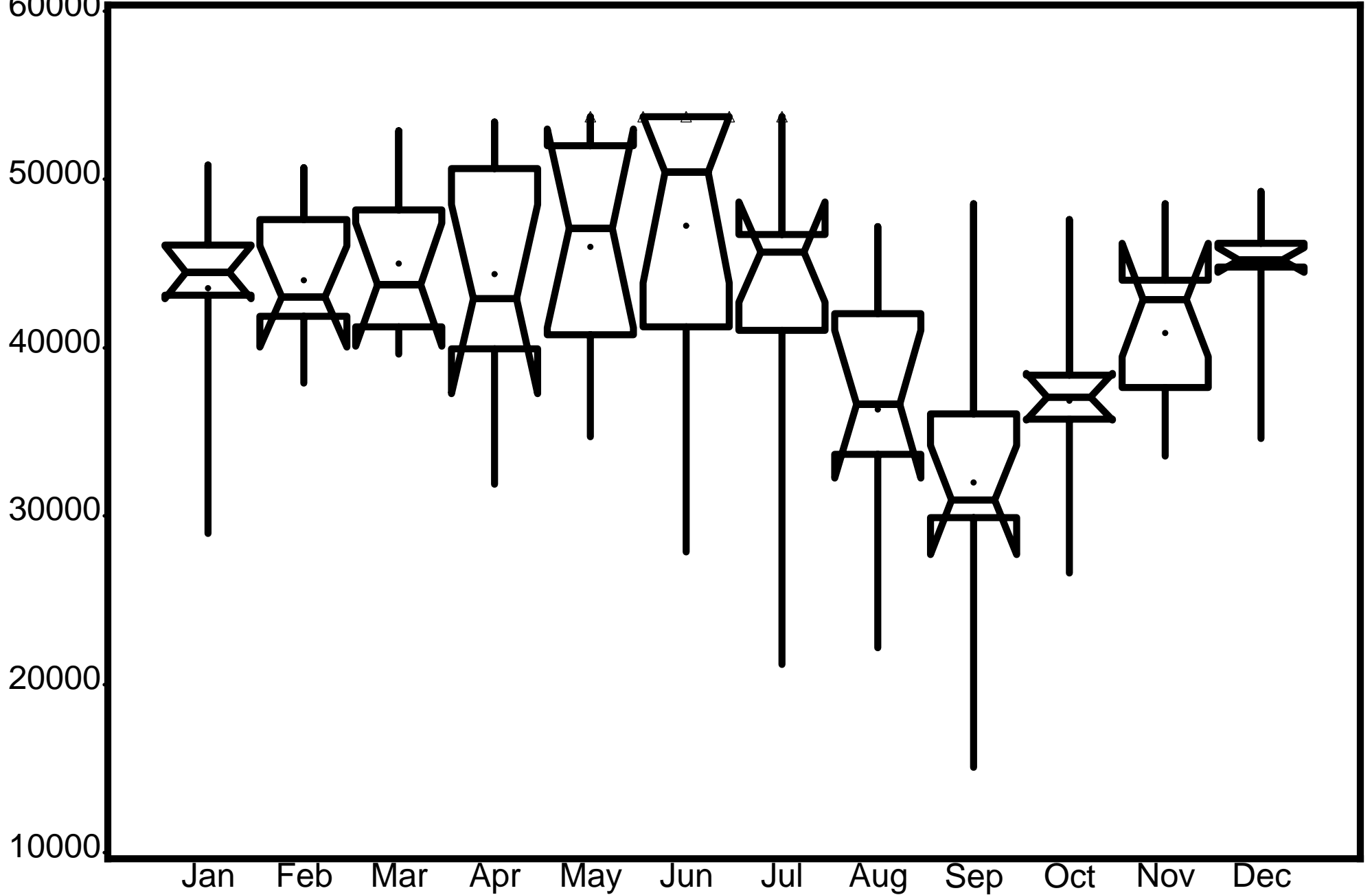
Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000



East Wall Trends Appendix - Display 563

Seasonal Univariate Statistics
for Surface Specific Conductance in East Wall

COND
(uS/cm)
60000



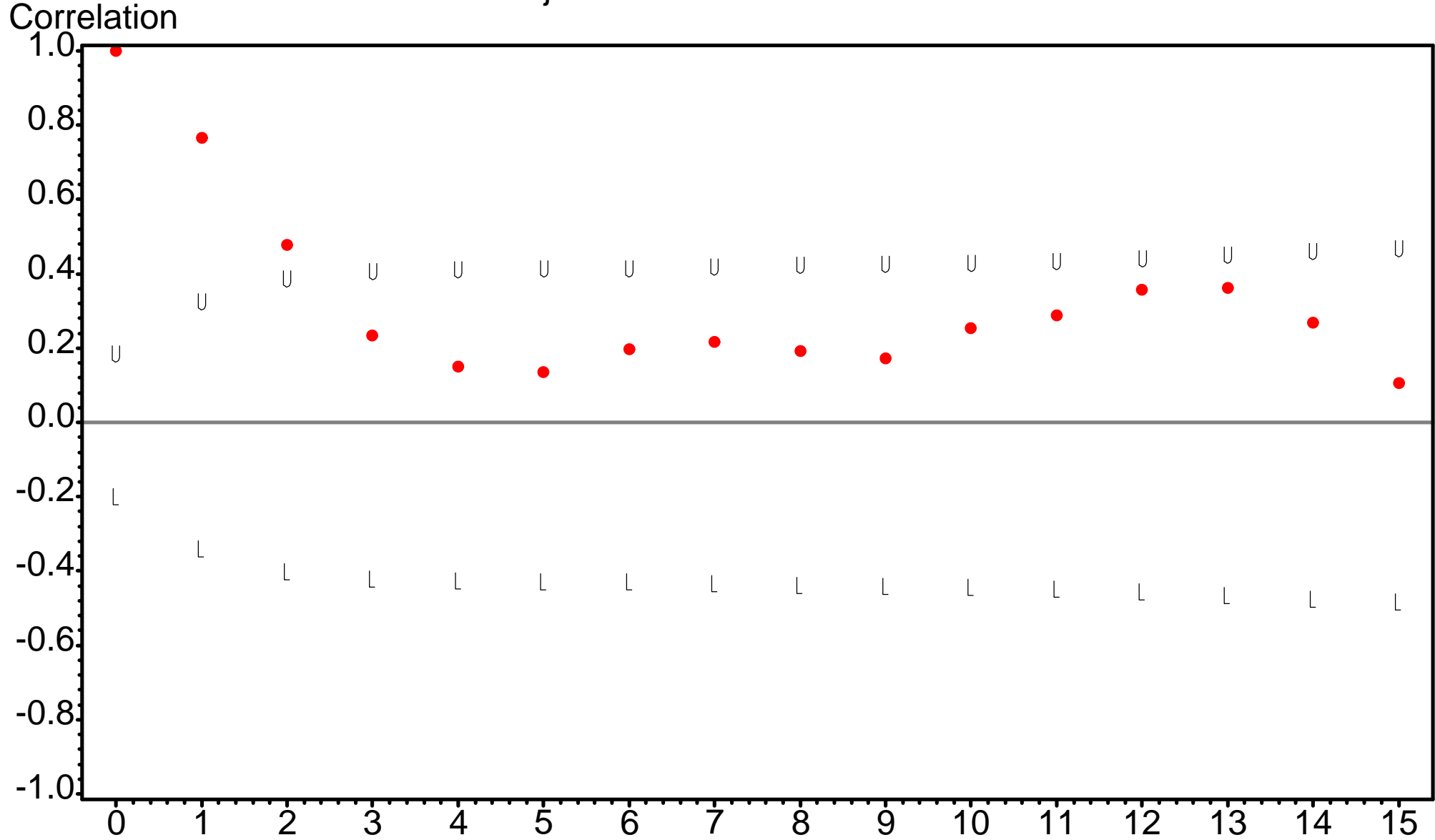
East Wall Trends Appendix - Display 564
Autocorrelation Statistics for Surface Specific Conductance in East Wall

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.765	0.167	0.333	-0.333
2	0.478	0.197	0.393	-0.393
3	0.234	0.207	0.414	-0.414
4	0.150	0.209	0.419	-0.419
5	0.135	0.210	0.421	-0.421
6	0.197	0.211	0.422	-0.422
7	0.216	0.213	0.426	-0.426
8	0.191	0.215	0.430	-0.430
9	0.172	0.217	0.433	-0.433
10	0.254	0.218	0.436	-0.436
11	0.287	0.221	0.441	-0.441
12	0.358	0.224	0.448	-0.448
13	0.362	0.229	0.458	-0.458
14	0.269	0.234	0.469	-0.469
15	0.107	0.237	0.475	-0.475

East Wall Trends Appendix - Display 565

Correlogram for Surface Specific Conductance in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 566
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.217	.001	.001	1025.75

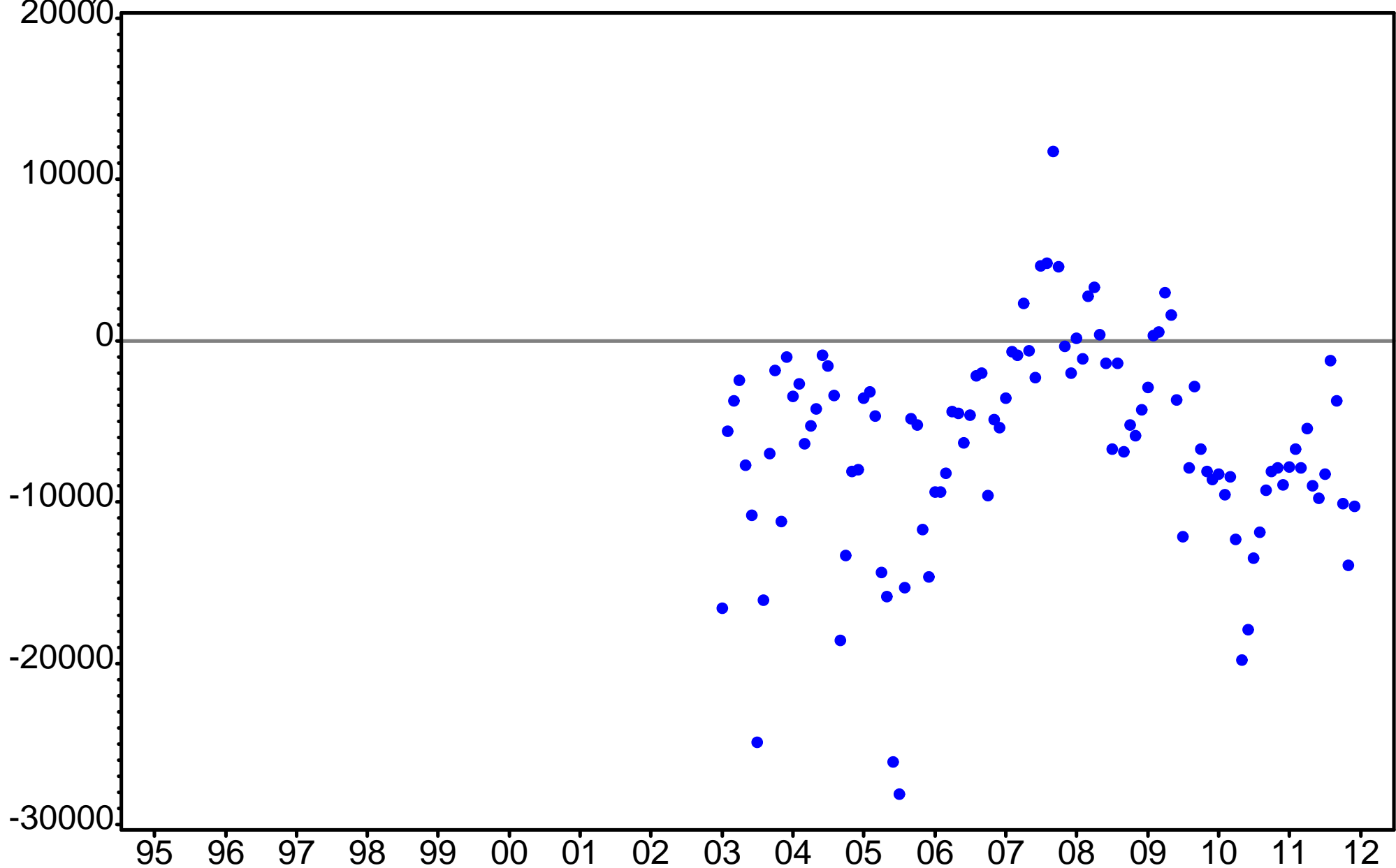
East Wall Trends Appendix - Display 567
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.33796	.000012875	0.10571	1036.47

East Wall Trends Appendix - Display 568

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
East Wall

Adjusted
(uS/cm)



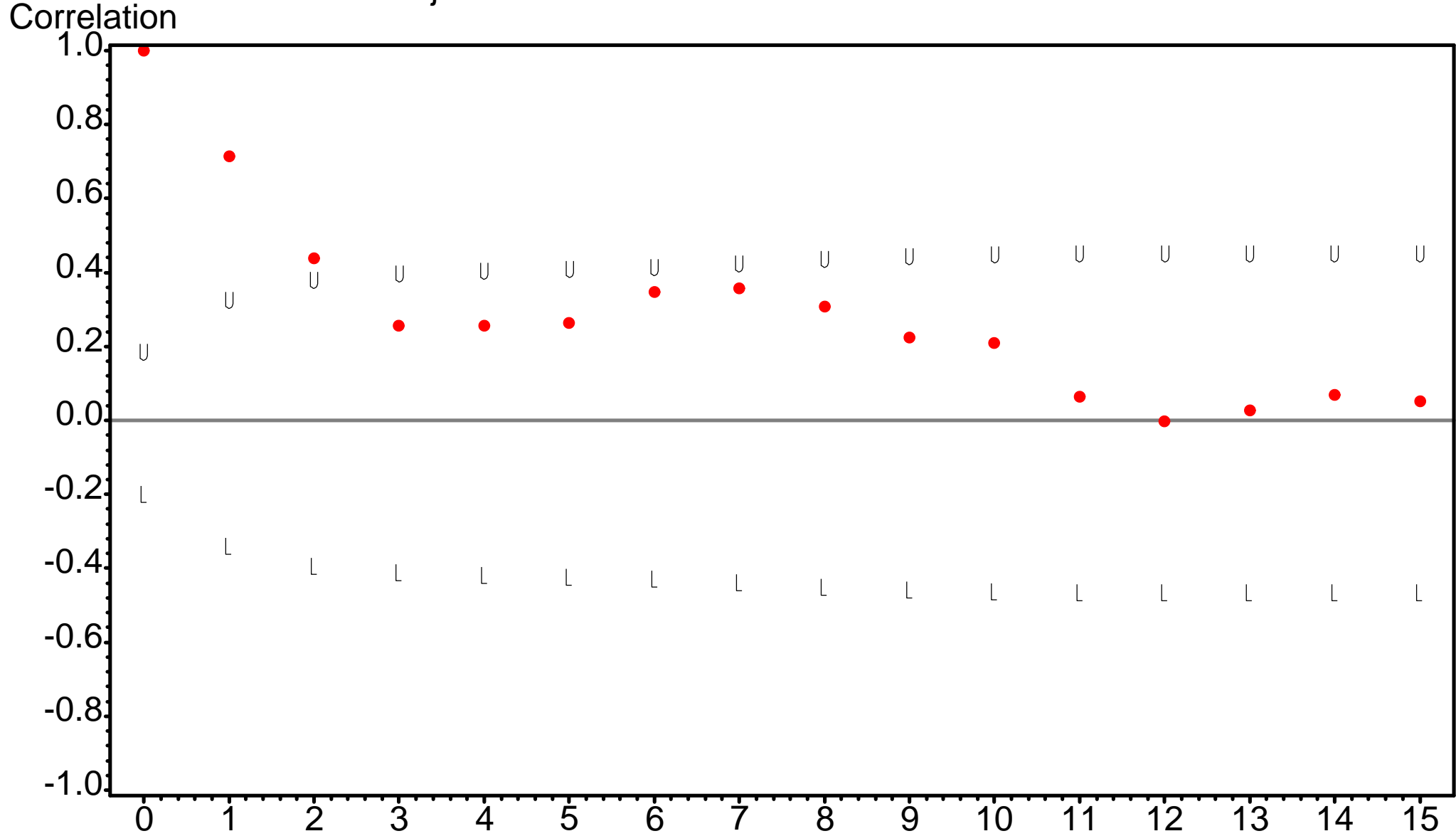
Zero Reference Line Shown

East Wall Trends Appendix - Display 569
Autocorrelation Statistics for Surface Specific Conductance in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.714	0.167	0.333	-0.333
2	0.438	0.193	0.386	-0.386
3	0.255	0.202	0.404	-0.404
4	0.256	0.205	0.410	-0.410
5	0.263	0.208	0.416	-0.416
6	0.348	0.211	0.422	-0.422
7	0.358	0.216	0.432	-0.432
8	0.307	0.222	0.443	-0.443
9	0.224	0.225	0.451	-0.451
10	0.210	0.228	0.455	-0.455
11	0.063	0.229	0.459	-0.459
12	-0.003	0.229	0.459	-0.459
13	0.026	0.229	0.459	-0.459
14	0.069	0.229	0.459	-0.459
15	0.051	0.230	0.459	-0.459

East Wall Trends Appendix - Display 570

Correlogram for Surface Specific Conductance in East Wall Adjusted for Seasonal Median and Detrended



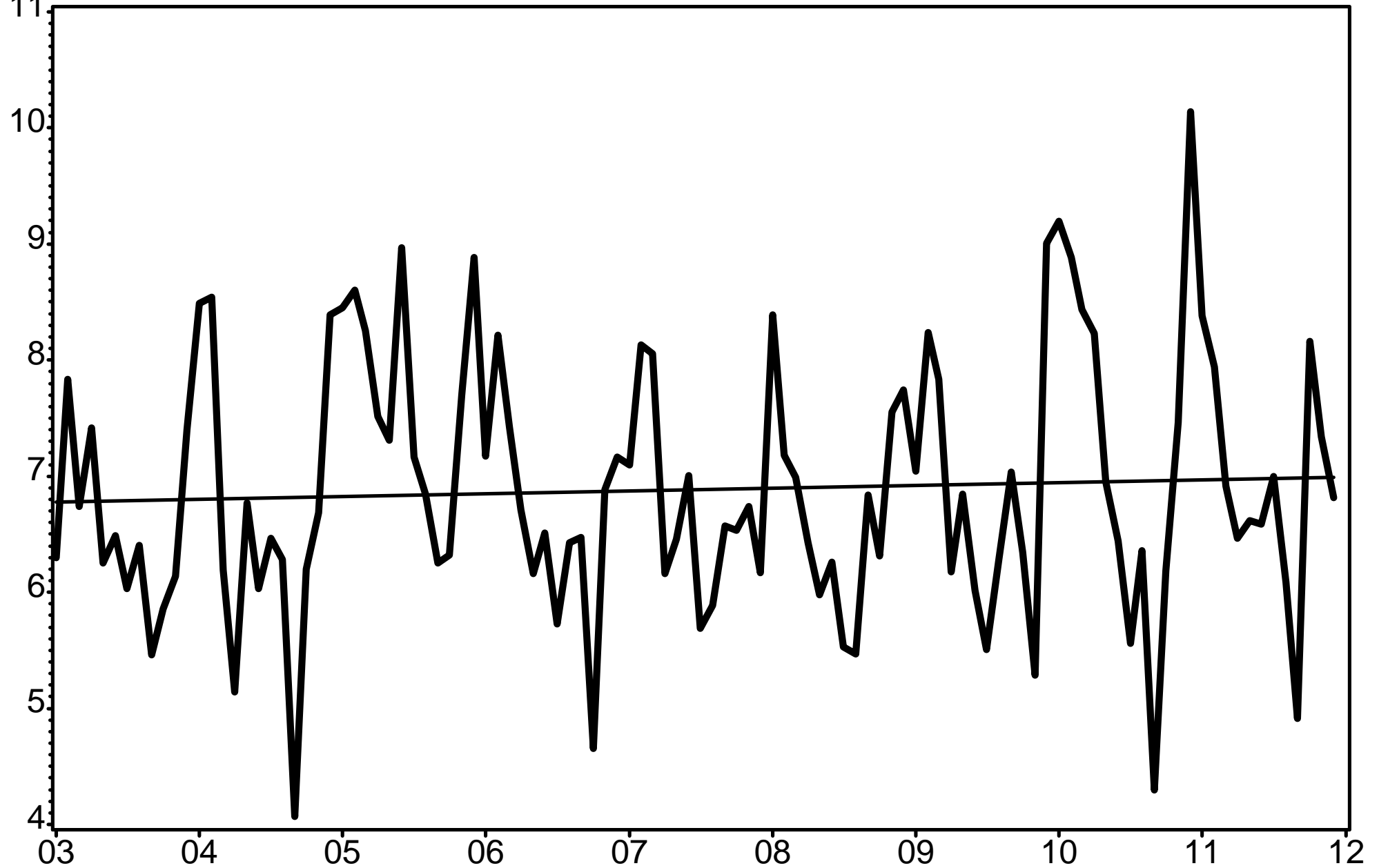
Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 571

Monthly Data Time Series
for Surface Dissolved Oxygen in East Wall
Not Adjusted for Seasonal Medians

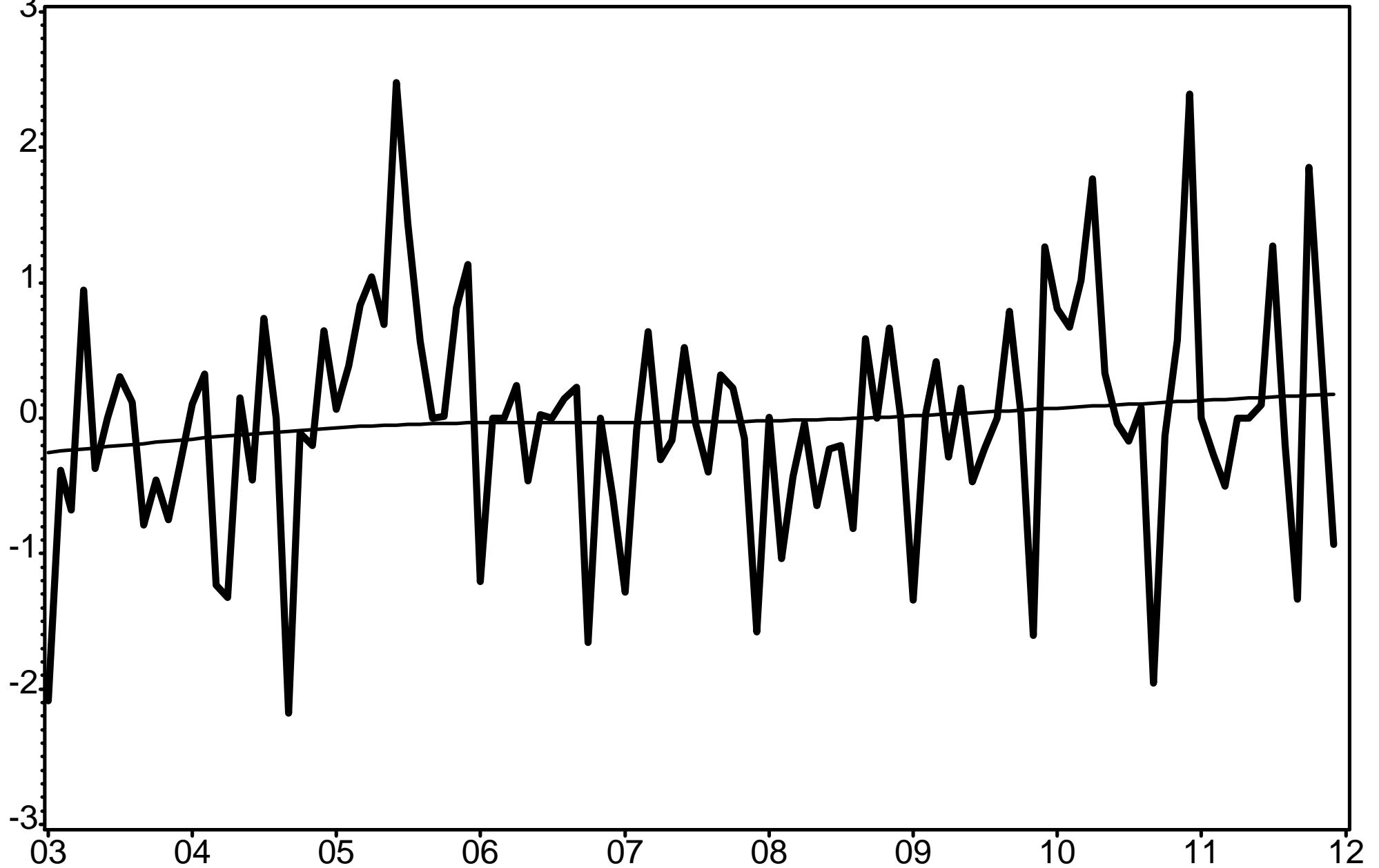
DO_mgl
(mg/l)



East Wall Trends Appendix - Display 572

Monthly Data Time Series
for Surface Dissolved Oxygen in East Wall
Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

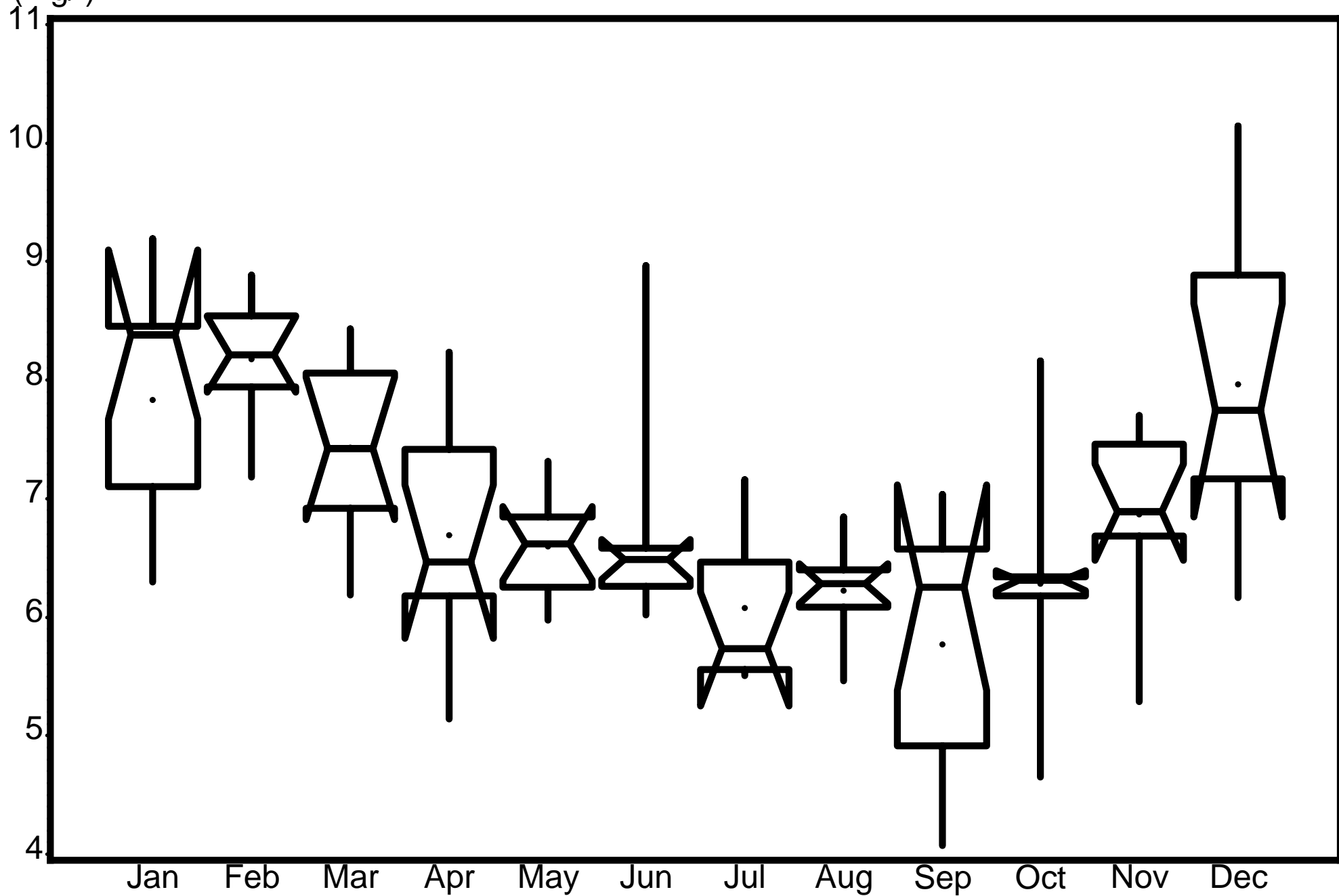


East Wall Trends Appendix - Display 573

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in East Wall

DO_mgl
(mg/l)



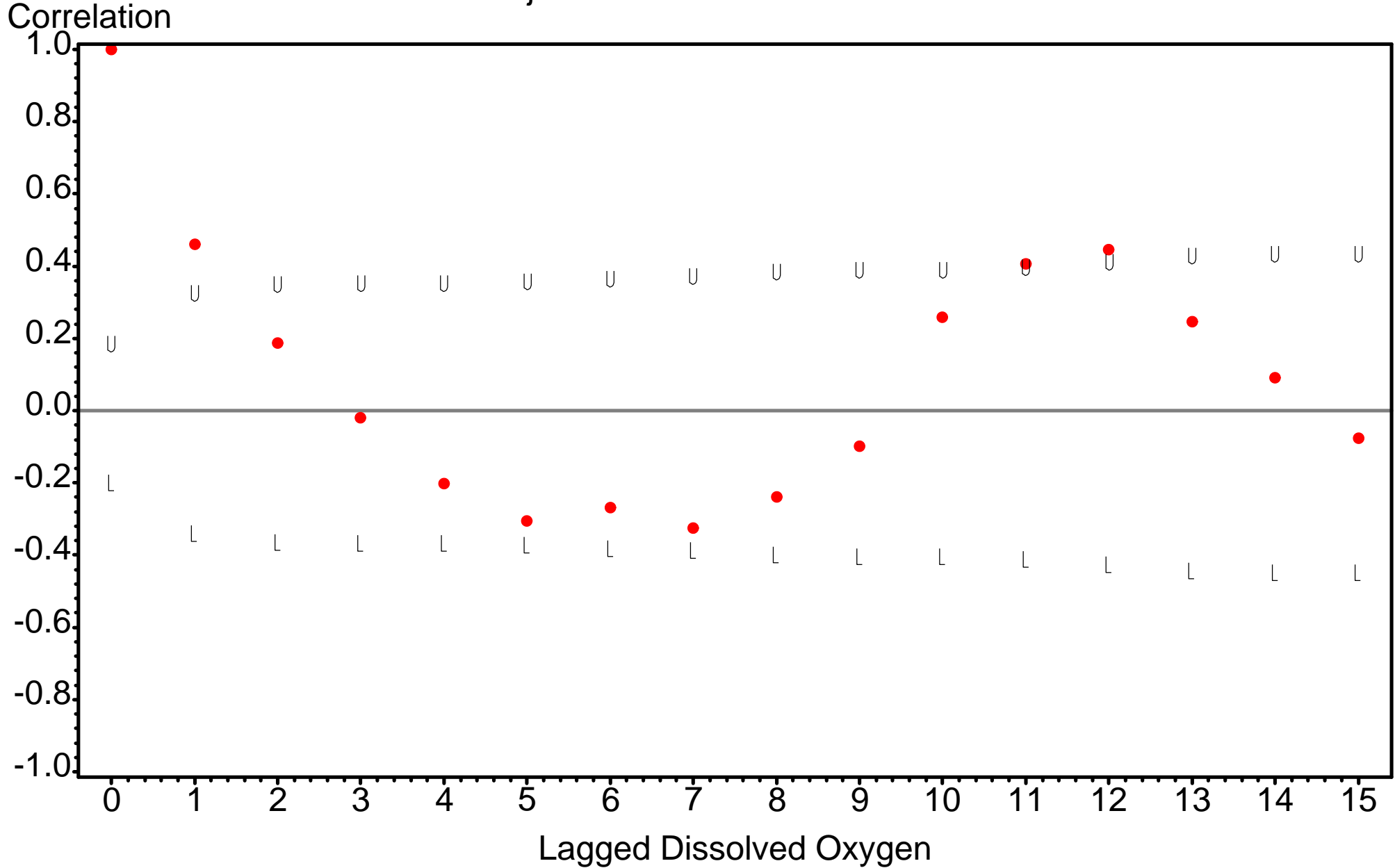
East Wall Trends Appendix - Display 574
Autocorrelation Statistics for Surface Dissolved Oxygen in East Wall

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.461	0.167	0.333	-0.333
2	0.187	0.178	0.356	-0.356
3	-0.019	0.180	0.360	-0.360
4	-0.201	0.180	0.360	-0.360
5	-0.306	0.182	0.364	-0.364
6	-0.268	0.187	0.373	-0.373
7	-0.325	0.190	0.380	-0.380
8	-0.239	0.195	0.391	-0.391
9	-0.098	0.198	0.396	-0.396
10	0.258	0.198	0.397	-0.397
11	0.406	0.202	0.403	-0.403
12	0.445	0.209	0.418	-0.418
13	0.247	0.218	0.435	-0.435
14	0.092	0.220	0.440	-0.440
15	-0.076	0.220	0.441	-0.441

East Wall Trends Appendix - Display 575

Correlogram for Surface Dissolved Oxygen in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 576
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.028	0.665	0.665	0.014

East Wall Trends Appendix - Display 577
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in East Wall
Adjusted for Seasonal Medians

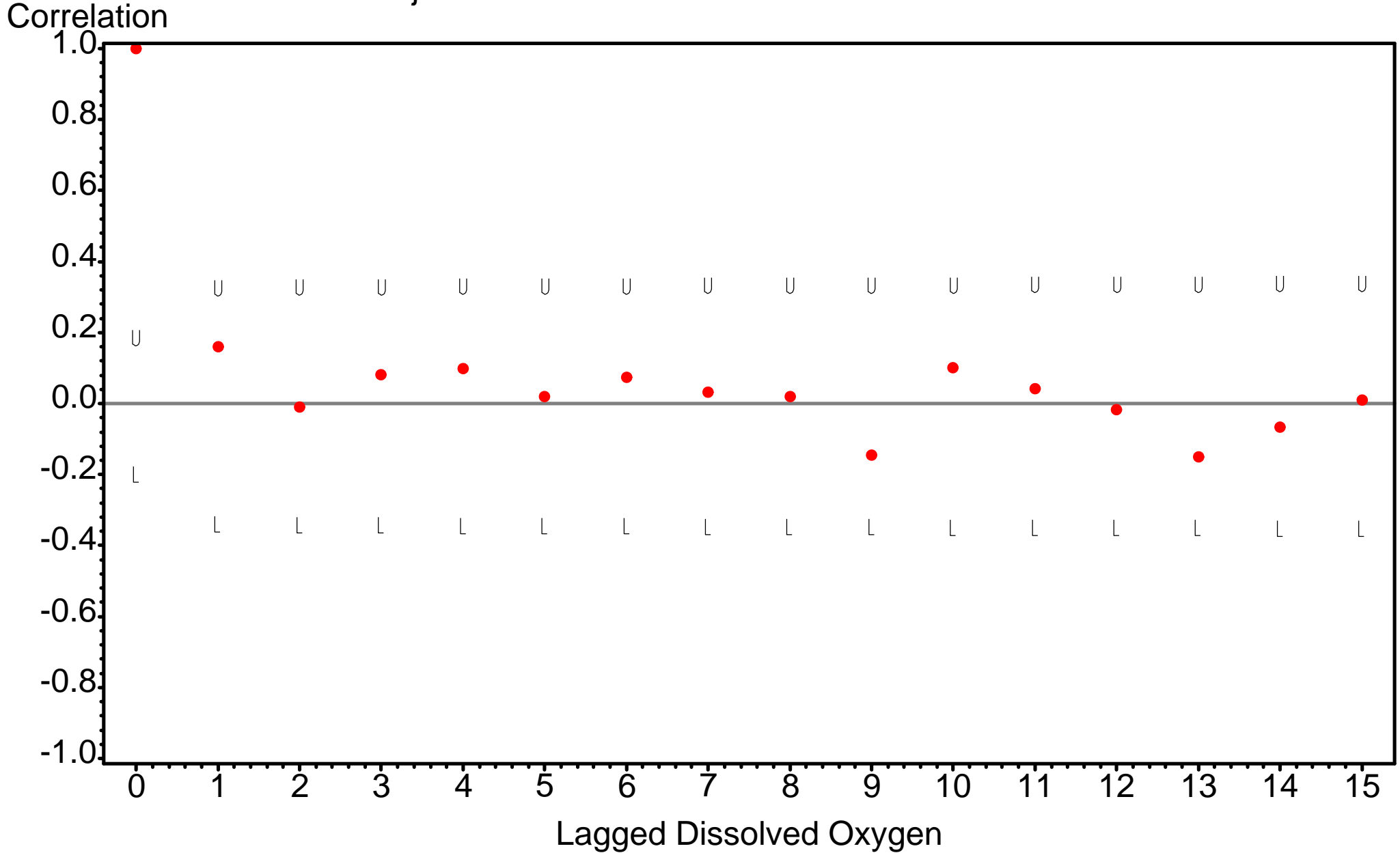
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.057870	0.4699	0.66145	0.015767

East Wall Trends Appendix - Display 579
Autocorrelation Statistics for Surface Dissolved Oxygen in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.159	0.167	0.333	-0.333
2	-0.009	0.168	0.336	-0.336
3	0.081	0.168	0.336	-0.336
4	0.099	0.168	0.337	-0.337
5	0.019	0.169	0.338	-0.338
6	0.075	0.169	0.338	-0.338
7	0.033	0.169	0.339	-0.339
8	0.020	0.169	0.339	-0.339
9	-0.144	0.169	0.339	-0.339
10	0.100	0.171	0.341	-0.341
11	0.041	0.171	0.342	-0.342
12	-0.016	0.171	0.342	-0.342
13	-0.151	0.171	0.342	-0.342
14	-0.067	0.172	0.345	-0.345
15	0.010	0.173	0.345	-0.345

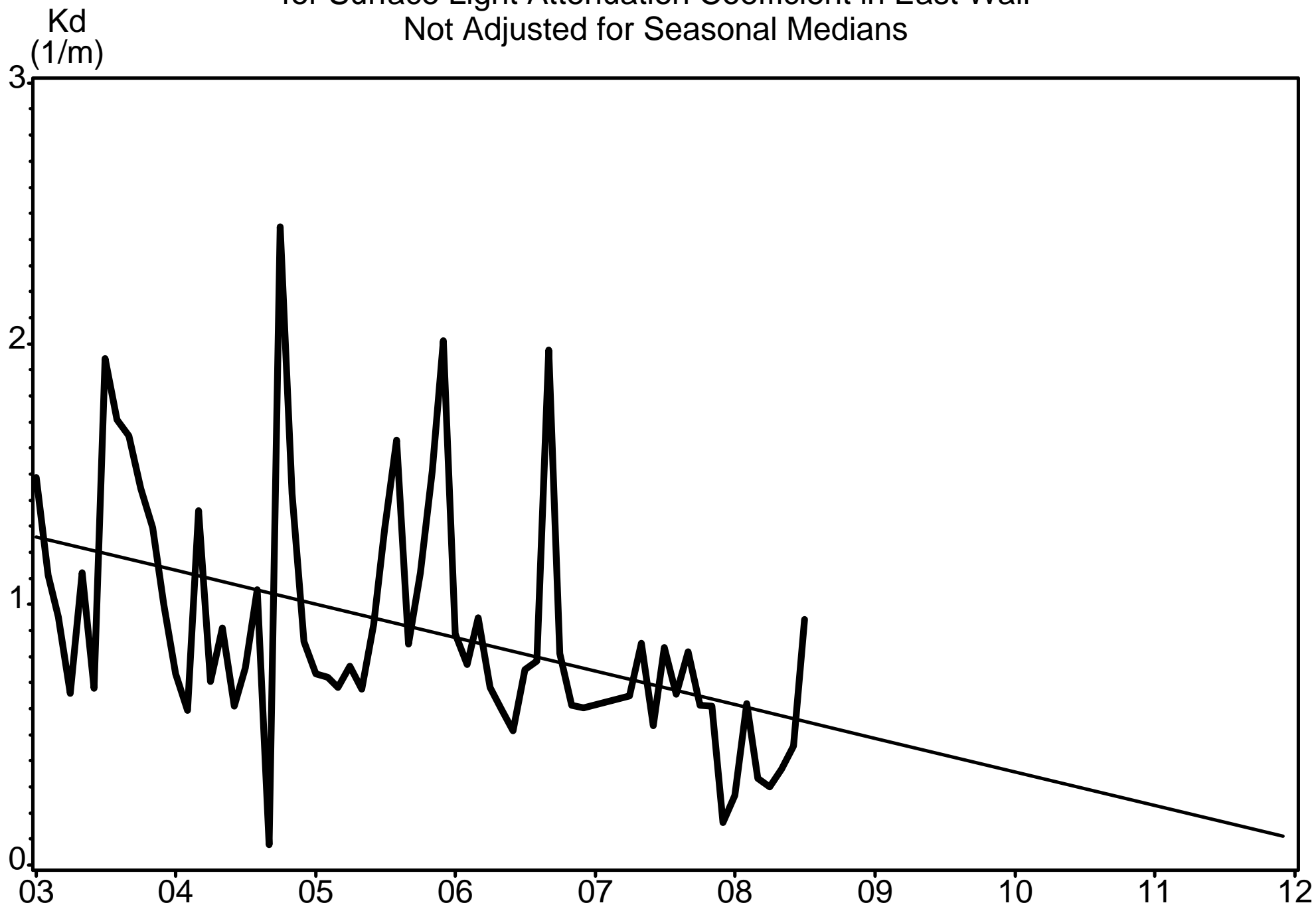
East Wall Trends Appendix - Display 580

Correlogram for Surface Dissolved Oxygen in East Wall Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 581
Monthly Data Time Series
for Surface Light Attenuation Coefficient in East Wall
Not Adjusted for Seasonal Medians



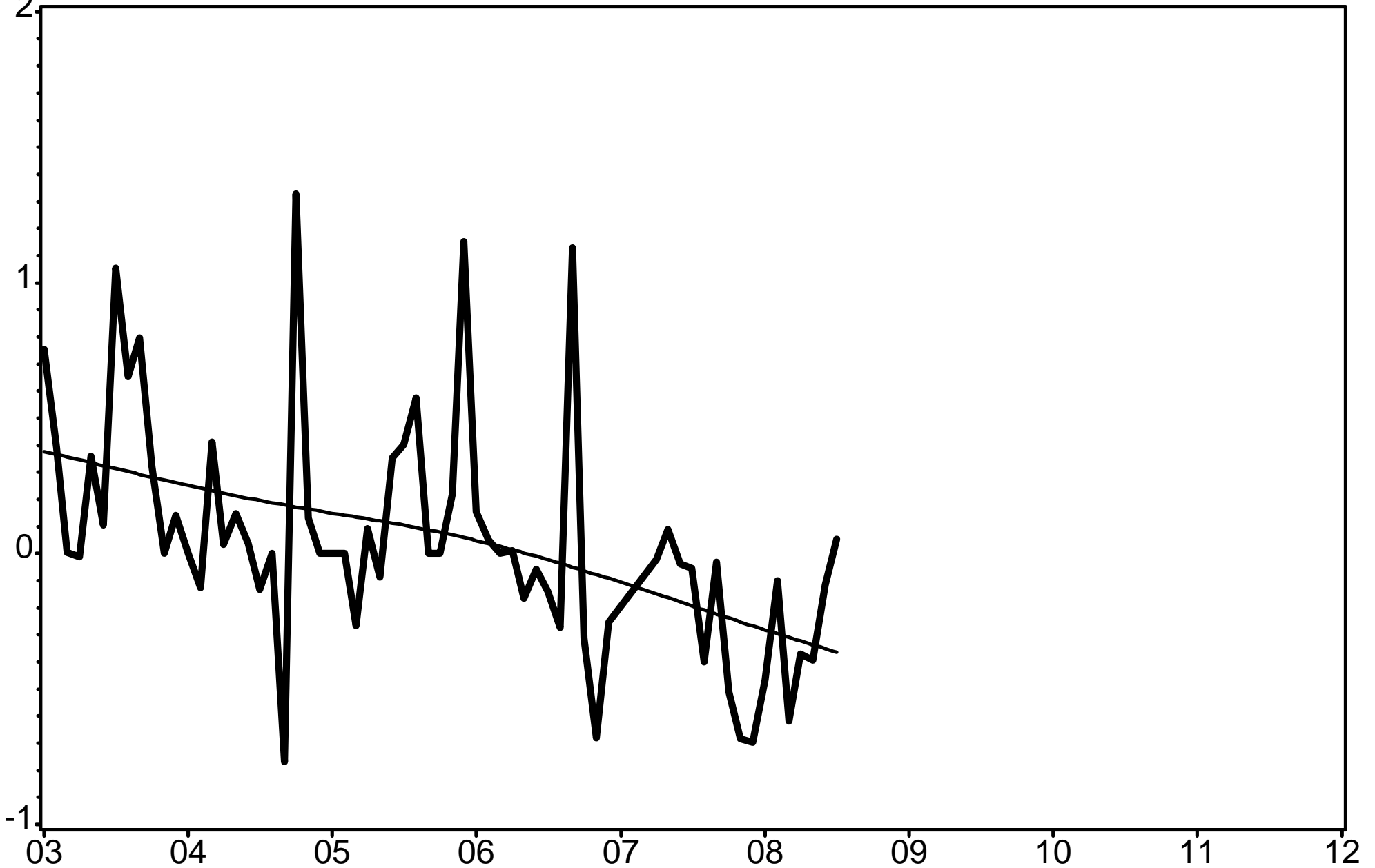
East Wall Trends Appendix - Display 582

Monthly Data Time Series

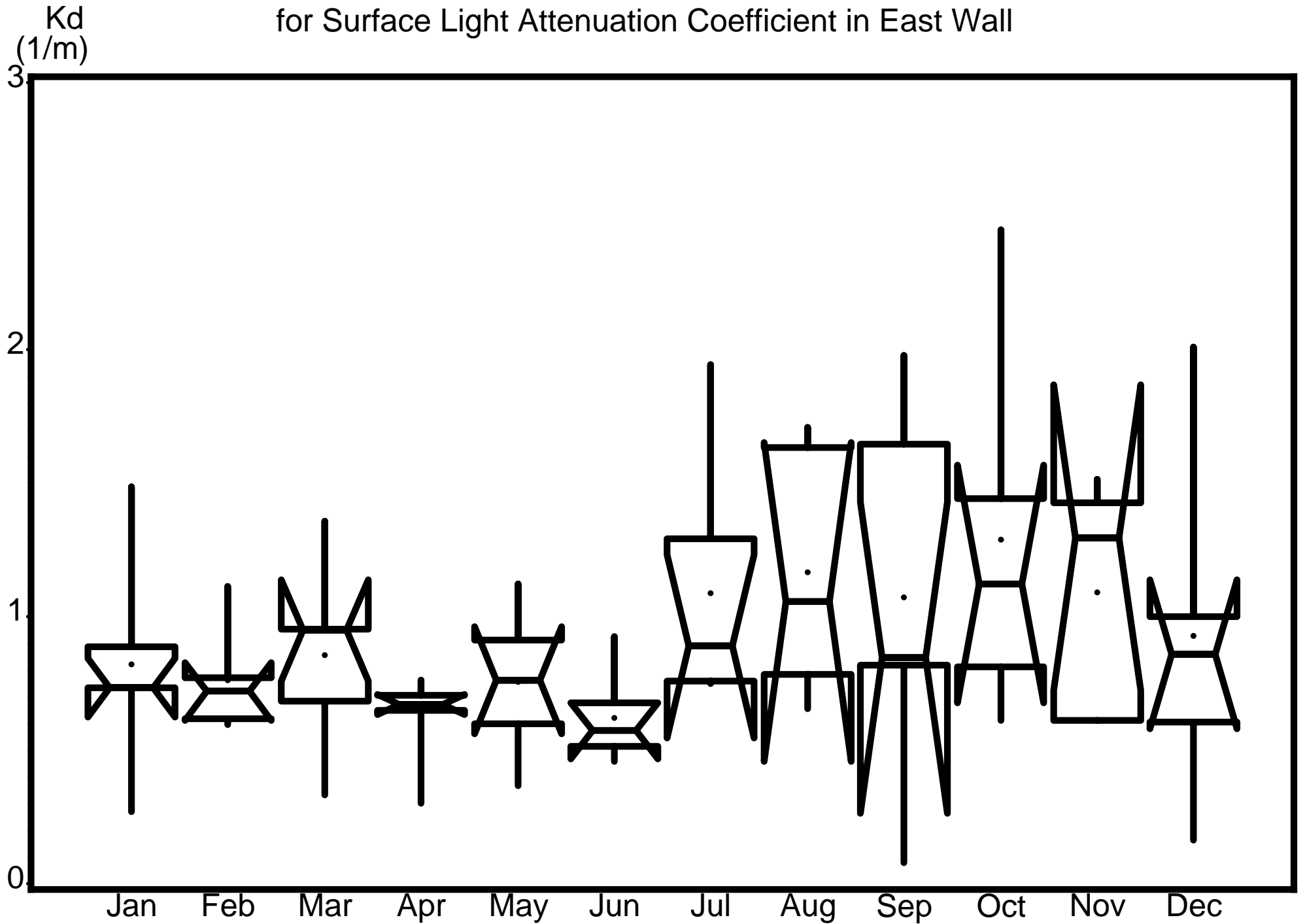
for Surface Light Attenuation Coefficient in East Wall

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



East Wall Trends Appendix - Display 583
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in East Wall



East Wall Trends Appendix - Display 584

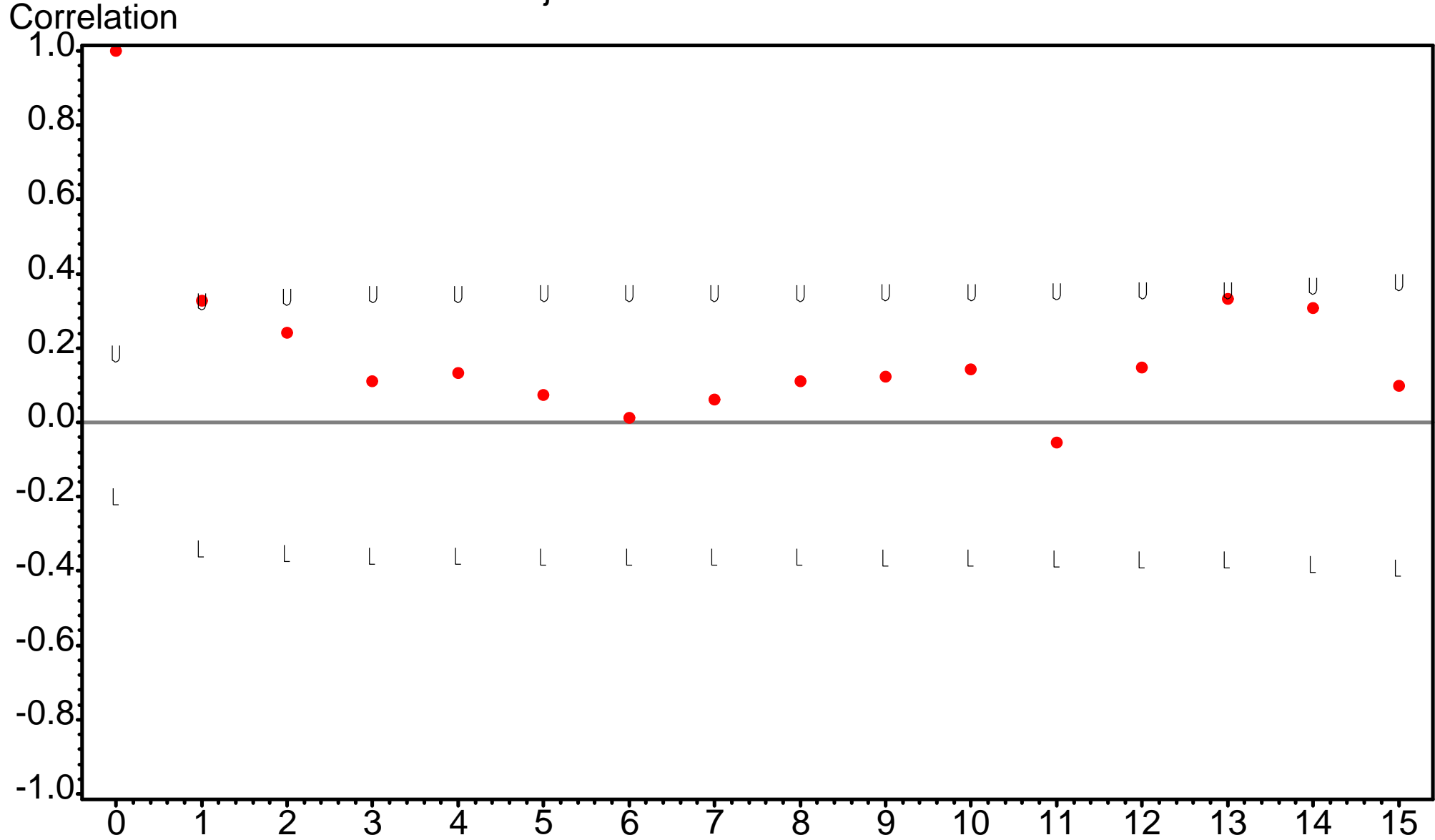
Autocorrelation Statistics for Surface Light Attenuation Coefficient in East Wall

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.328	0.167	0.333	-0.333
2	0.242	0.173	0.345	-0.345
3	0.111	0.176	0.351	-0.351
4	0.134	0.176	0.353	-0.353
5	0.074	0.177	0.354	-0.354
6	0.013	0.178	0.355	-0.355
7	0.062	0.178	0.355	-0.355
8	0.111	0.178	0.355	-0.355
9	0.122	0.178	0.357	-0.357
10	0.142	0.179	0.358	-0.358
11	-0.054	0.180	0.360	-0.360
12	0.147	0.180	0.361	-0.361
13	0.332	0.181	0.363	-0.363
14	0.308	0.187	0.374	-0.374
15	0.098	0.192	0.383	-0.383

East Wall Trends Appendix - Display 585

Correlogram for Surface Light Attenuation Coefficient in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 586
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in East Wall
Unadjusted for Seasonal Medians

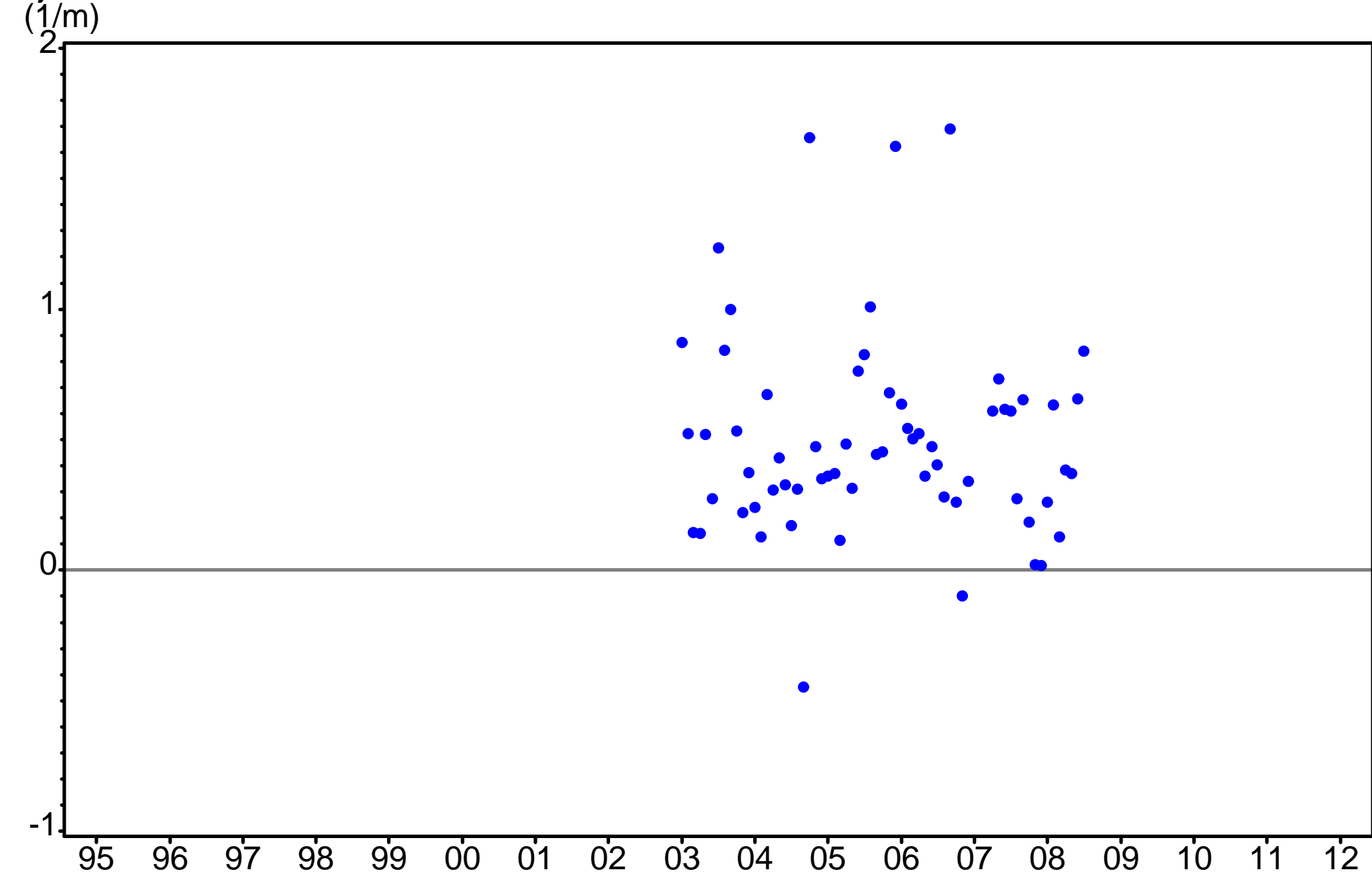
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.357	0	0	-0.117

East Wall Trends Appendix - Display 587
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.49286	.000014496	0.032753	-0.1206

East Wall Trends Appendix - Display 588

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted East Wall



Zero Reference Line Shown

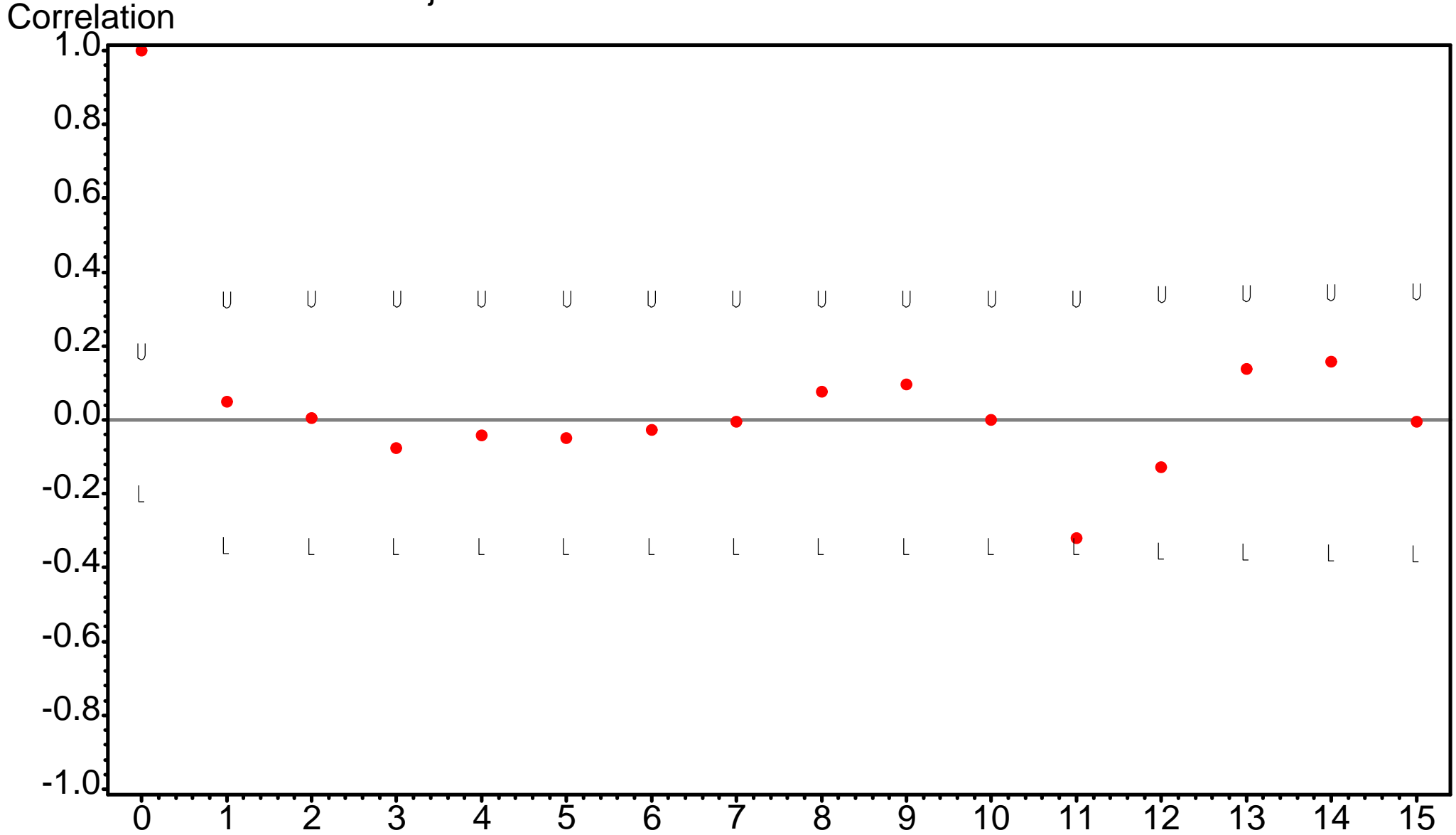
East Wall Trends Appendix - Display 589

Autocorrelation Statistics for Surface Light Attenuation Coefficient in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.050	0.167	0.333	-0.333
2	0.004	0.167	0.334	-0.334
3	-0.076	0.167	0.334	-0.334
4	-0.042	0.167	0.334	-0.334
5	-0.048	0.167	0.334	-0.334
6	-0.026	0.167	0.335	-0.335
7	-0.005	0.167	0.335	-0.335
8	0.076	0.167	0.335	-0.335
9	0.095	0.168	0.335	-0.335
10	0.001	0.168	0.336	-0.336
11	-0.320	0.168	0.336	-0.336
12	-0.129	0.174	0.348	-0.348
13	0.139	0.175	0.349	-0.349
14	0.158	0.176	0.351	-0.351
15	-0.005	0.177	0.354	-0.354

East Wall Trends Appendix - Display 590

Correlogram for Surface Light Attenuation Coefficient in East Wall
Adjusted for Seasonal Median and Detrended



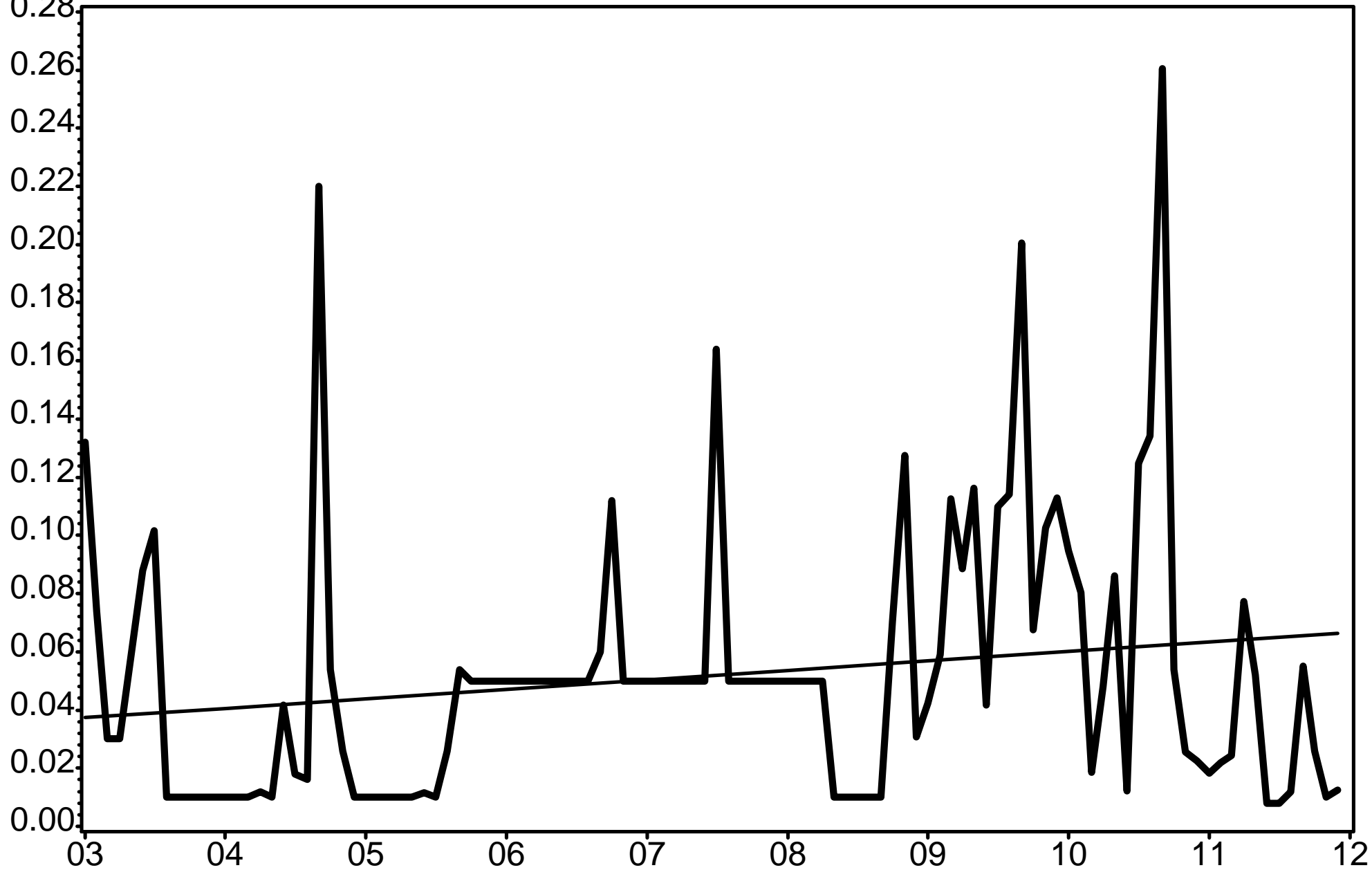
Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 591

Monthly Data Time Series
for Surface Ammonia as N Total in East Wall
Not Adjusted for Seasonal Medians

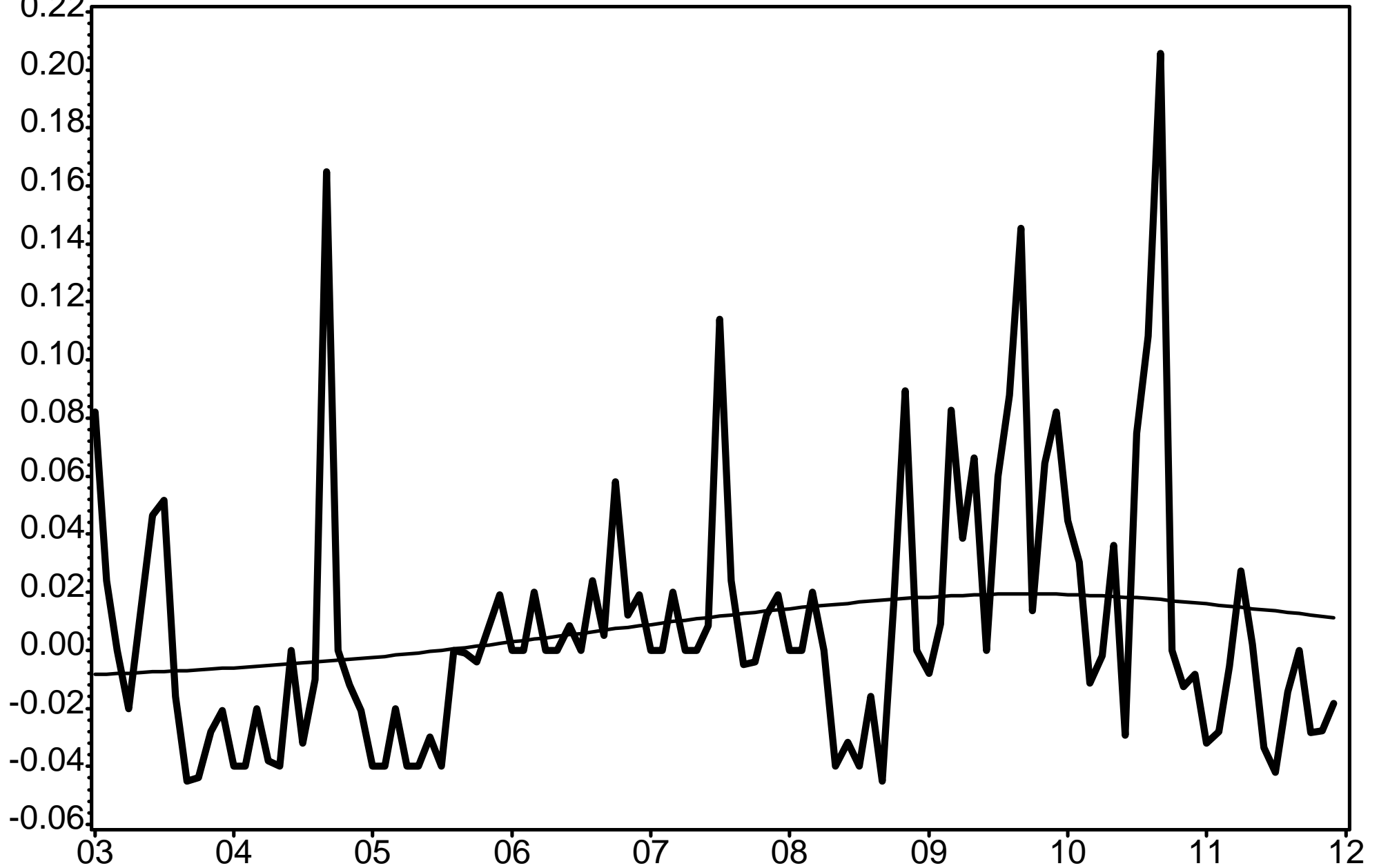
NH3_mgl
(mg/l)



East Wall Trends Appendix - Display 592

Monthly Data Time Series
for Surface Ammonia as N Total in East Wall
Adjusted for Seasonal Medians

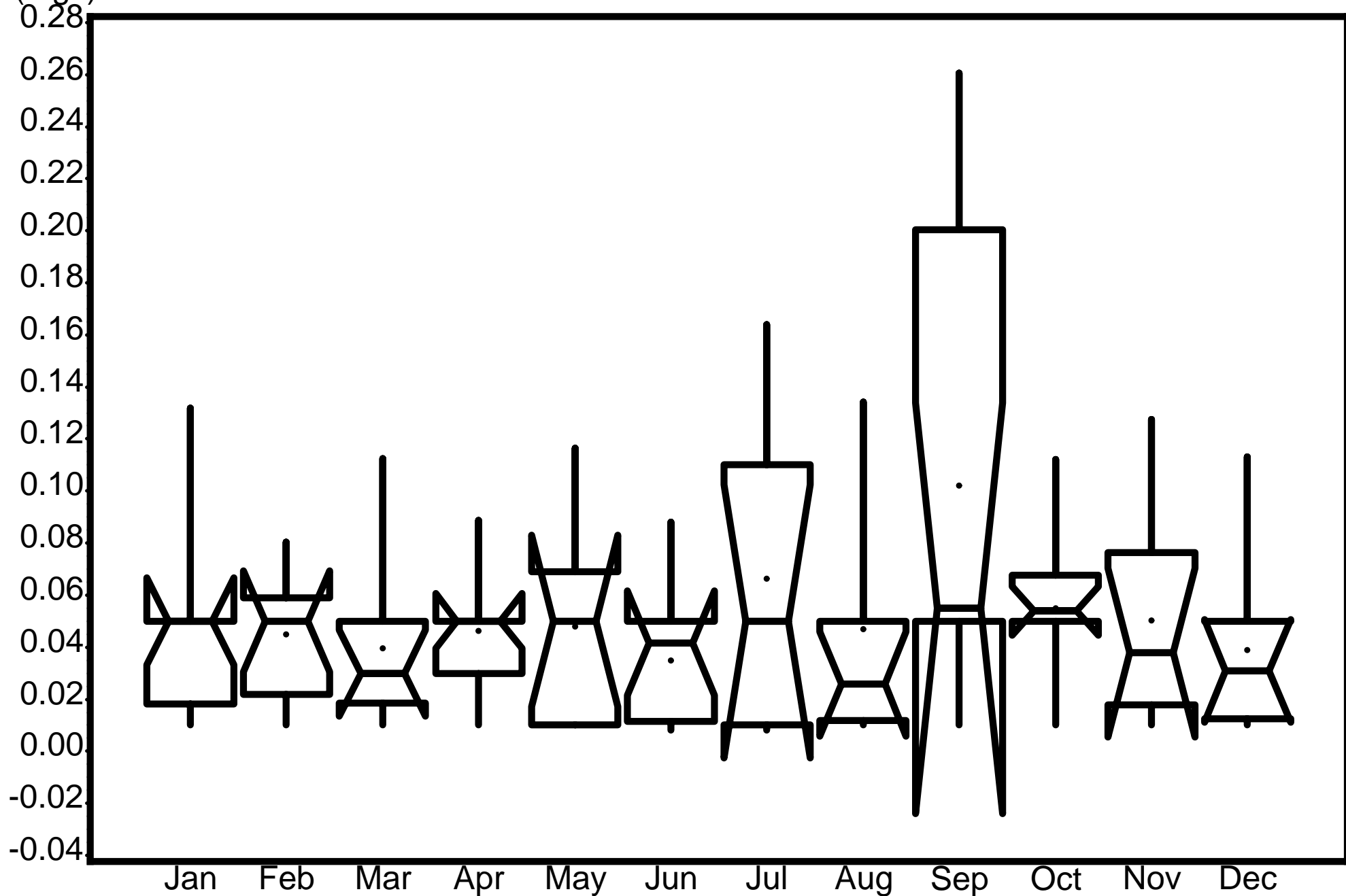
Adjusted
NH3_mgl
(mg/l)



East Wall Trends Appendix - Display 593

Seasonal Univariate Statistics
for Surface Ammonia as N Total in East Wall

NH3_mgl
(mg/l)



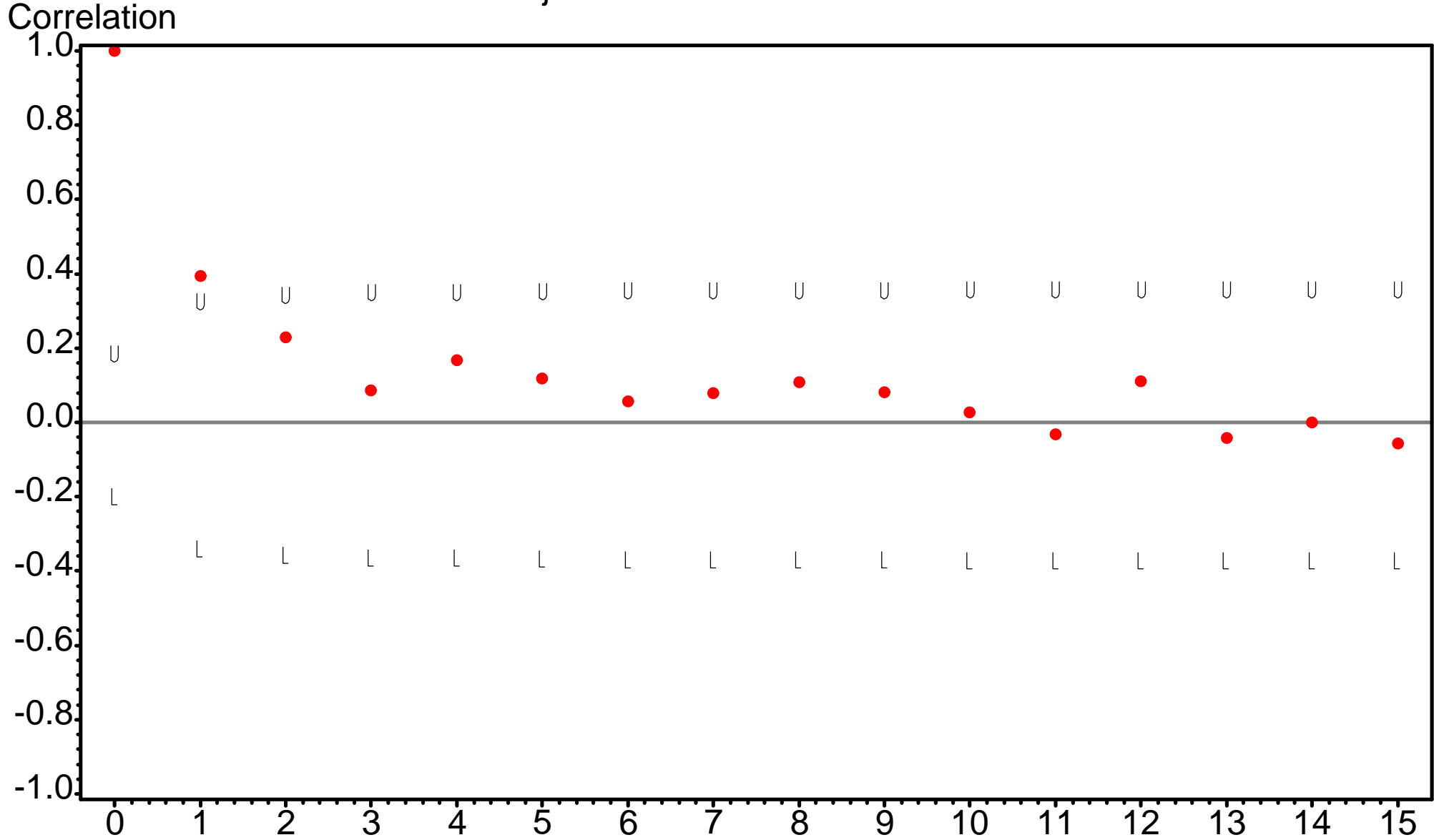
East Wall Trends Appendix - Display 594
Autocorrelation Statistics for Surface Ammonia as N Total in East Wall

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.394	0.167	0.333	-0.333
2	0.229	0.175	0.350	-0.350
3	0.087	0.178	0.356	-0.356
4	0.167	0.178	0.356	-0.356
5	0.118	0.180	0.359	-0.359
6	0.056	0.180	0.361	-0.361
7	0.080	0.181	0.361	-0.361
8	0.109	0.181	0.362	-0.362
9	0.082	0.181	0.363	-0.363
10	0.028	0.182	0.364	-0.364
11	-0.032	0.182	0.364	-0.364
12	0.110	0.182	0.364	-0.364
13	-0.042	0.183	0.365	-0.365
14	0.001	0.183	0.365	-0.365
15	-0.057	0.183	0.365	-0.365

East Wall Trends Appendix - Display 595

Correlogram for Surface Ammonia as N Total in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 596
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.155	0.017	0.017	.001

East Wall Trends Appendix - Display 597
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in East Wall
Adjusted for Seasonal Medians

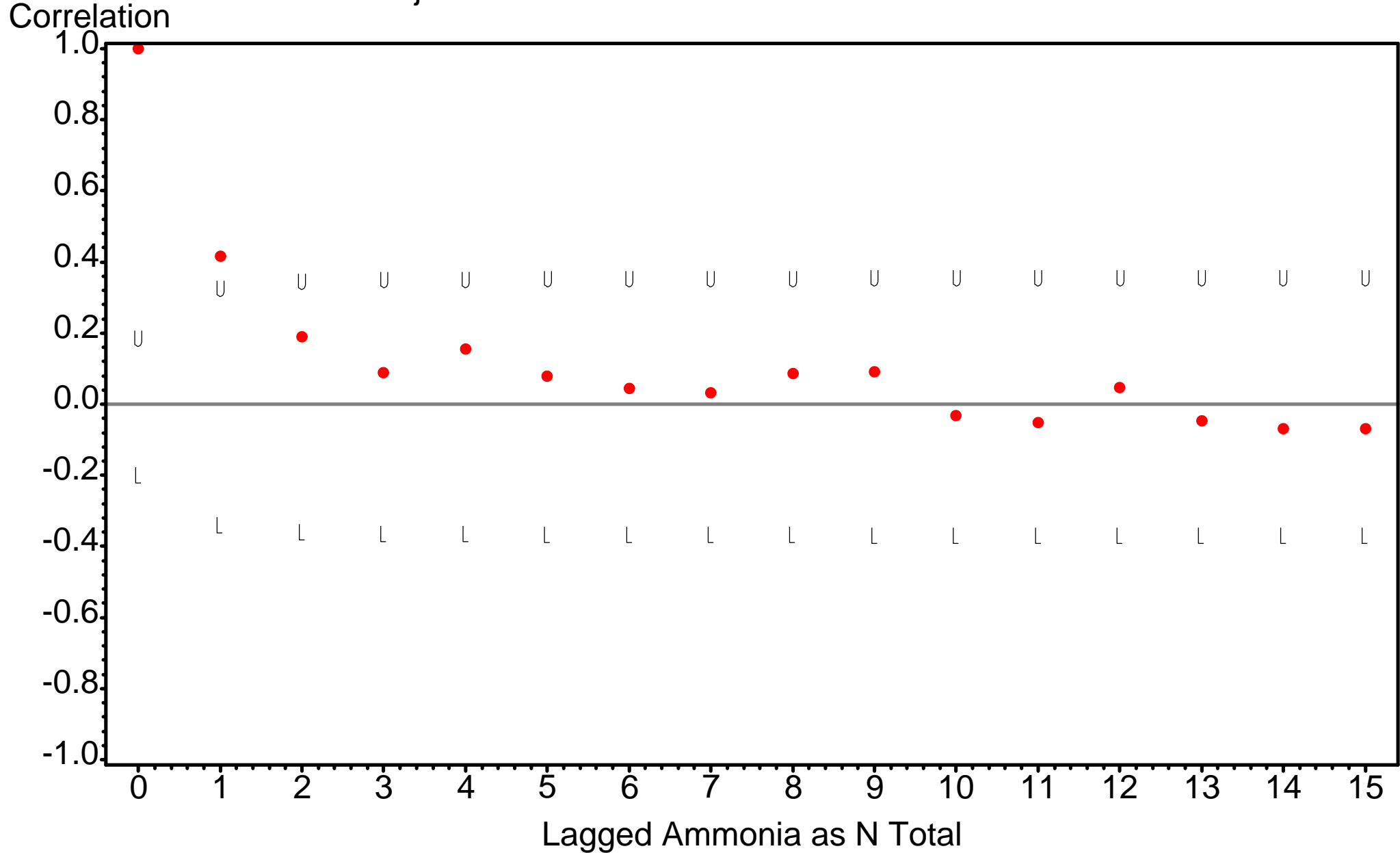
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.13942	0.073263	0.36642	.00129167

East Wall Trends Appendix - Display 599
Autocorrelation Statistics for Surface Ammonia as N Total in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.415	0.167	0.333	-0.333
2	0.189	0.176	0.352	-0.352
3	0.089	0.178	0.356	-0.356
4	0.154	0.178	0.357	-0.357
5	0.078	0.179	0.359	-0.359
6	0.045	0.180	0.360	-0.360
7	0.031	0.180	0.360	-0.360
8	0.087	0.180	0.360	-0.360
9	0.091	0.180	0.361	-0.361
10	-0.031	0.181	0.362	-0.362
11	-0.051	0.181	0.362	-0.362
12	0.048	0.181	0.362	-0.362
13	-0.046	0.181	0.362	-0.362
14	-0.068	0.181	0.362	-0.362
15	-0.069	0.181	0.363	-0.363

East Wall Trends Appendix - Display 600

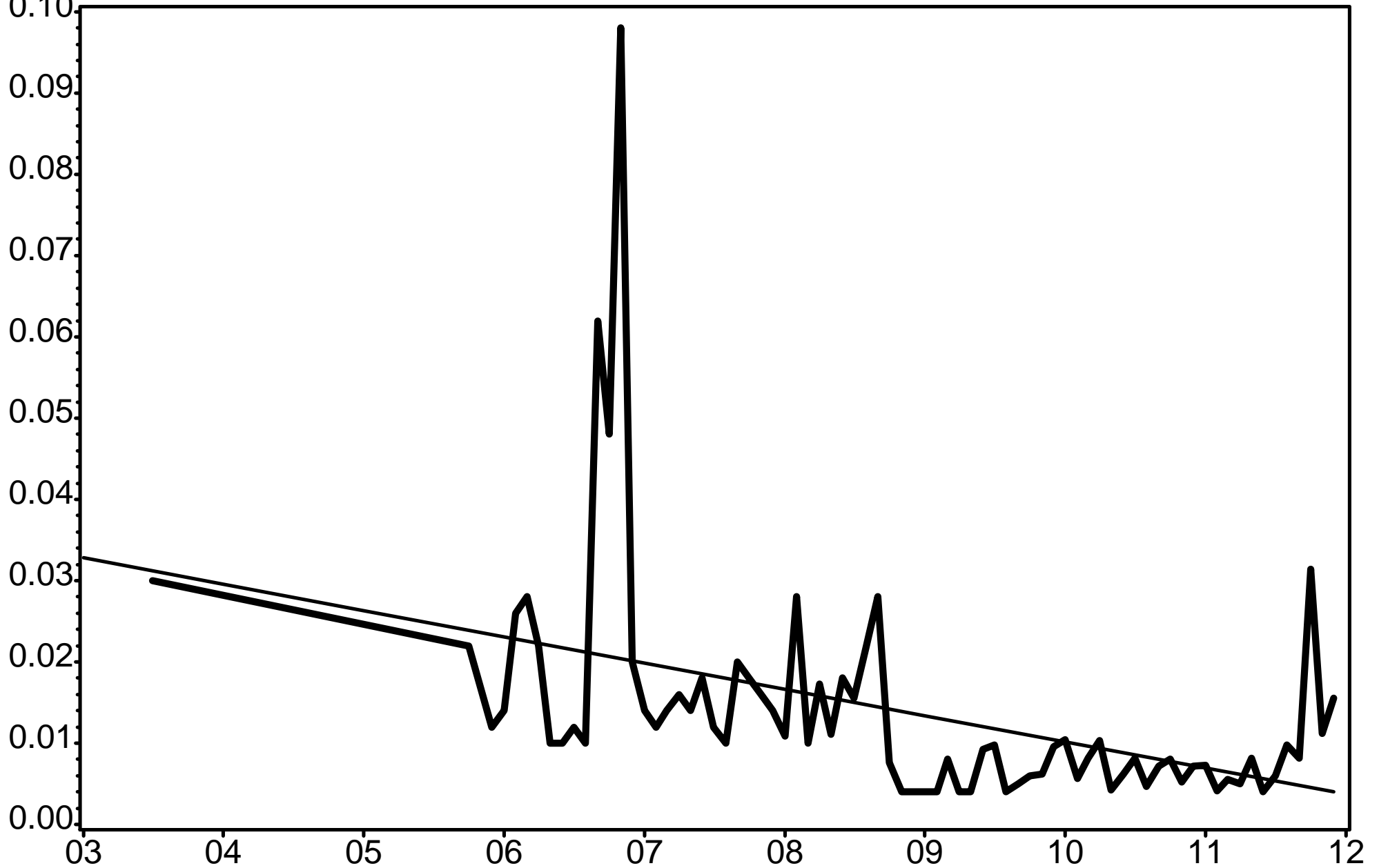
Correlogram for Surface Ammonia as N Total in East Wall Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 601
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Not Adjusted for Seasonal Medians

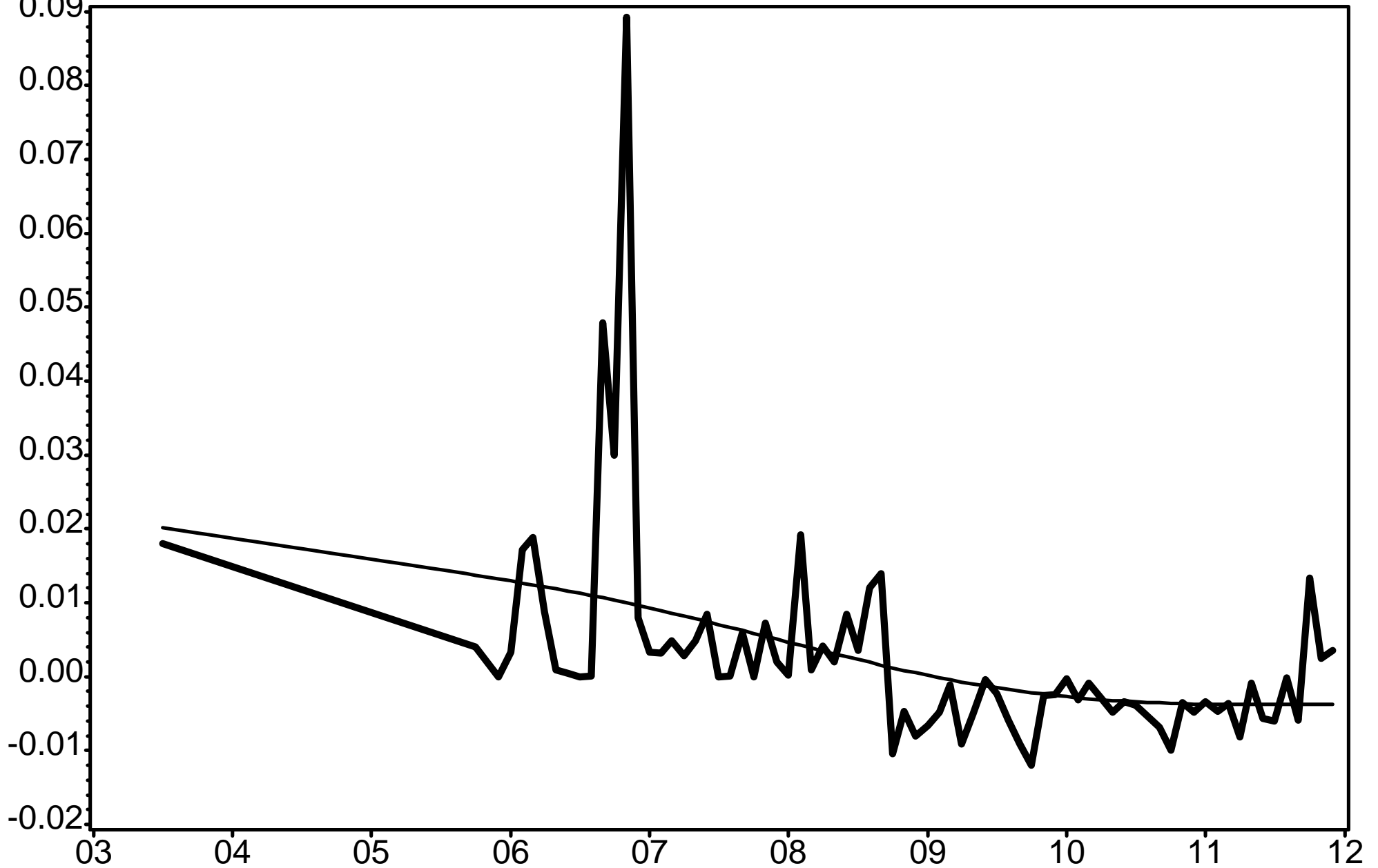
NO23_mgl
(mg/l)



East Wall Trends Appendix - Display 602

Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

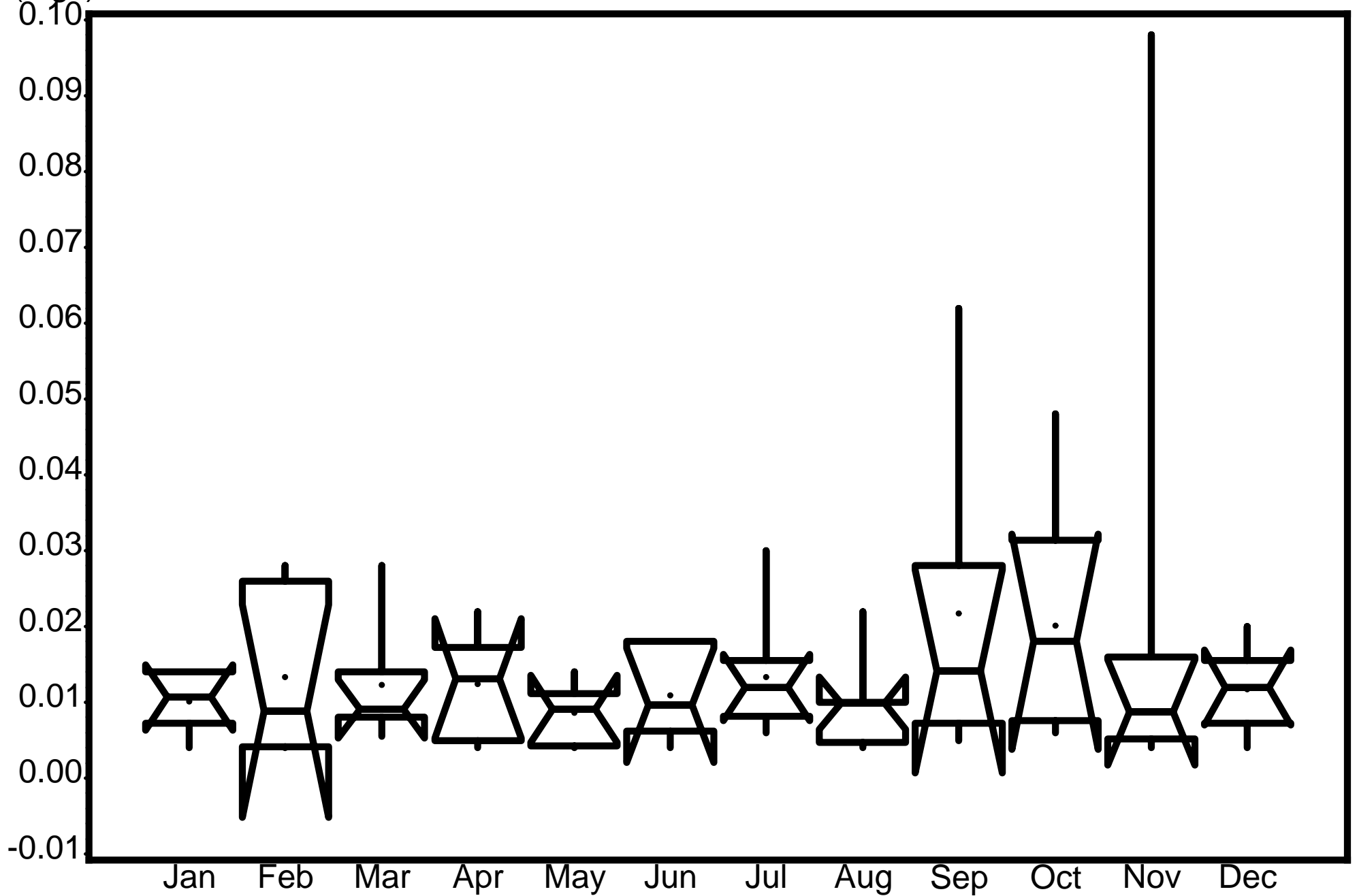


East Wall Trends Appendix - Display 603

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall

NO23_mgl
(mg/l)



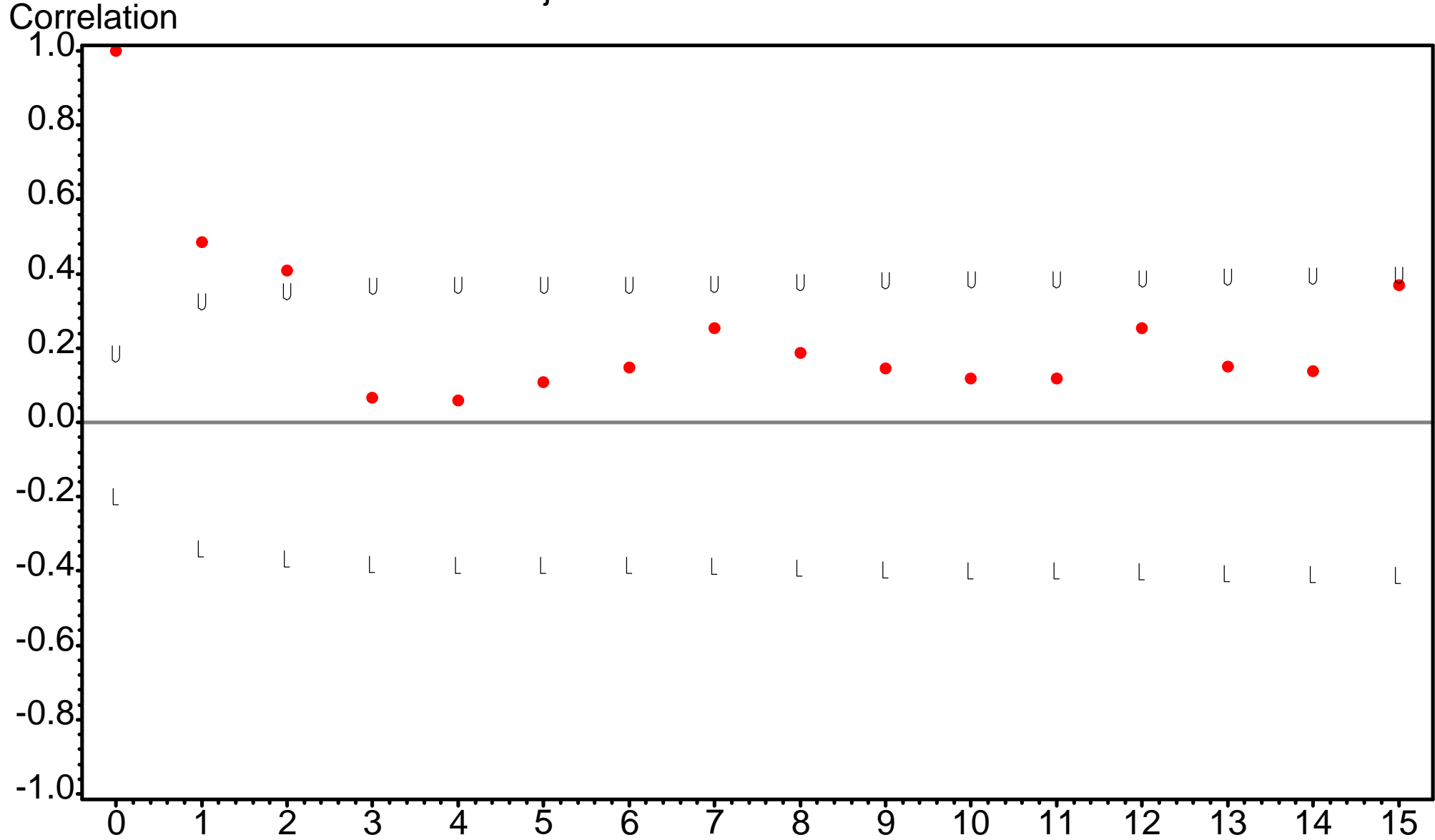
East Wall Trends Appendix - Display 604

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.485	0.167	0.333	-0.333
2	0.408	0.179	0.359	-0.359
3	0.066	0.188	0.375	-0.375
4	0.059	0.188	0.376	-0.376
5	0.108	0.188	0.376	-0.376
6	0.147	0.189	0.377	-0.377
7	0.253	0.190	0.379	-0.379
8	0.186	0.193	0.385	-0.385
9	0.145	0.194	0.389	-0.389
10	0.117	0.195	0.391	-0.391
11	0.118	0.196	0.392	-0.392
12	0.254	0.197	0.393	-0.393
13	0.150	0.200	0.399	-0.399
14	0.137	0.201	0.401	-0.401
15	0.370	0.202	0.403	-0.403

East Wall Trends Appendix - Display 605

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 606
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Unadjusted for Seasonal Medians

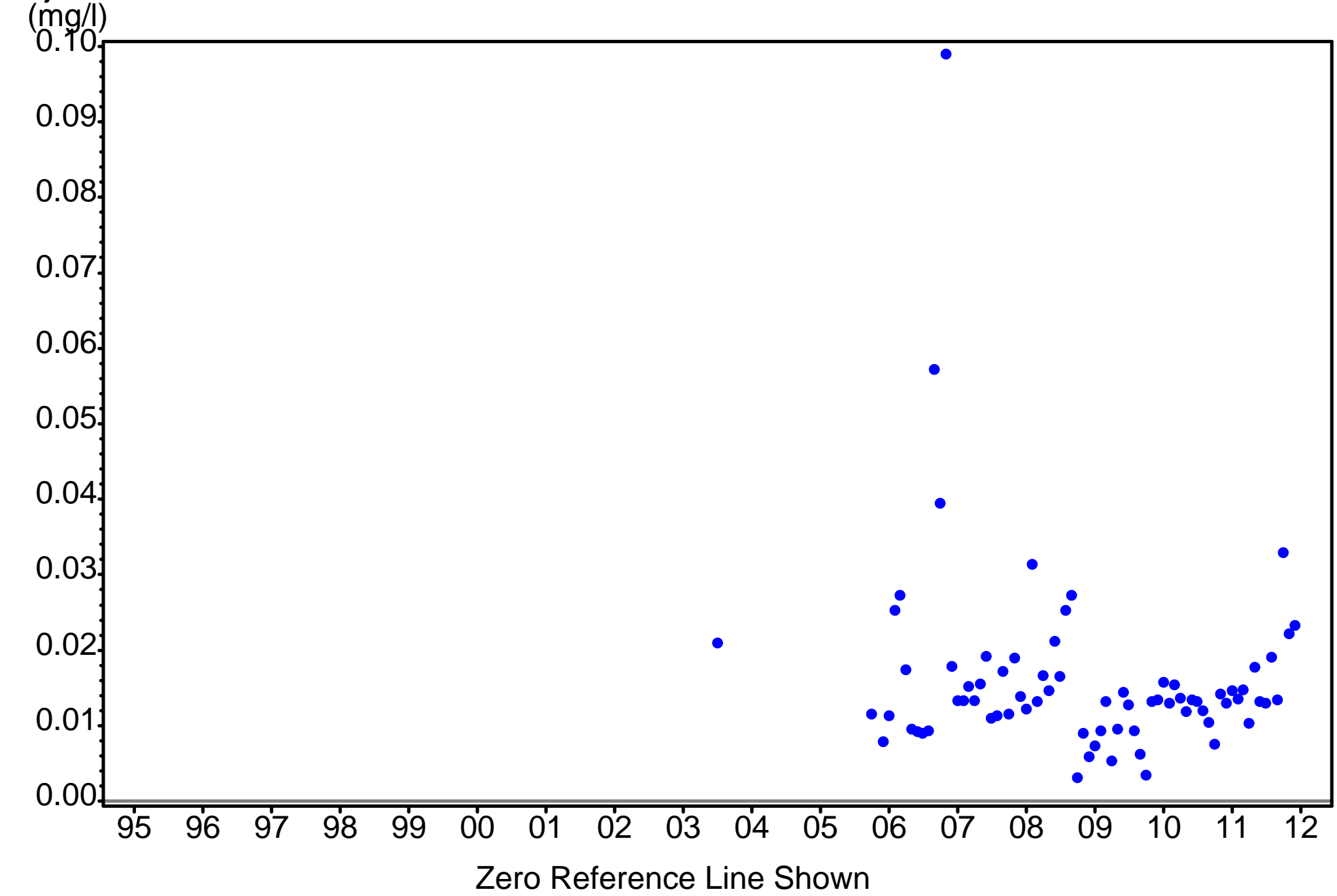
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.395	0	0	-.002

East Wall Trends Appendix - Display 607
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.47475	.000001633	0.047159	-.002

East Wall Trends Appendix - Display 608

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted East Wall



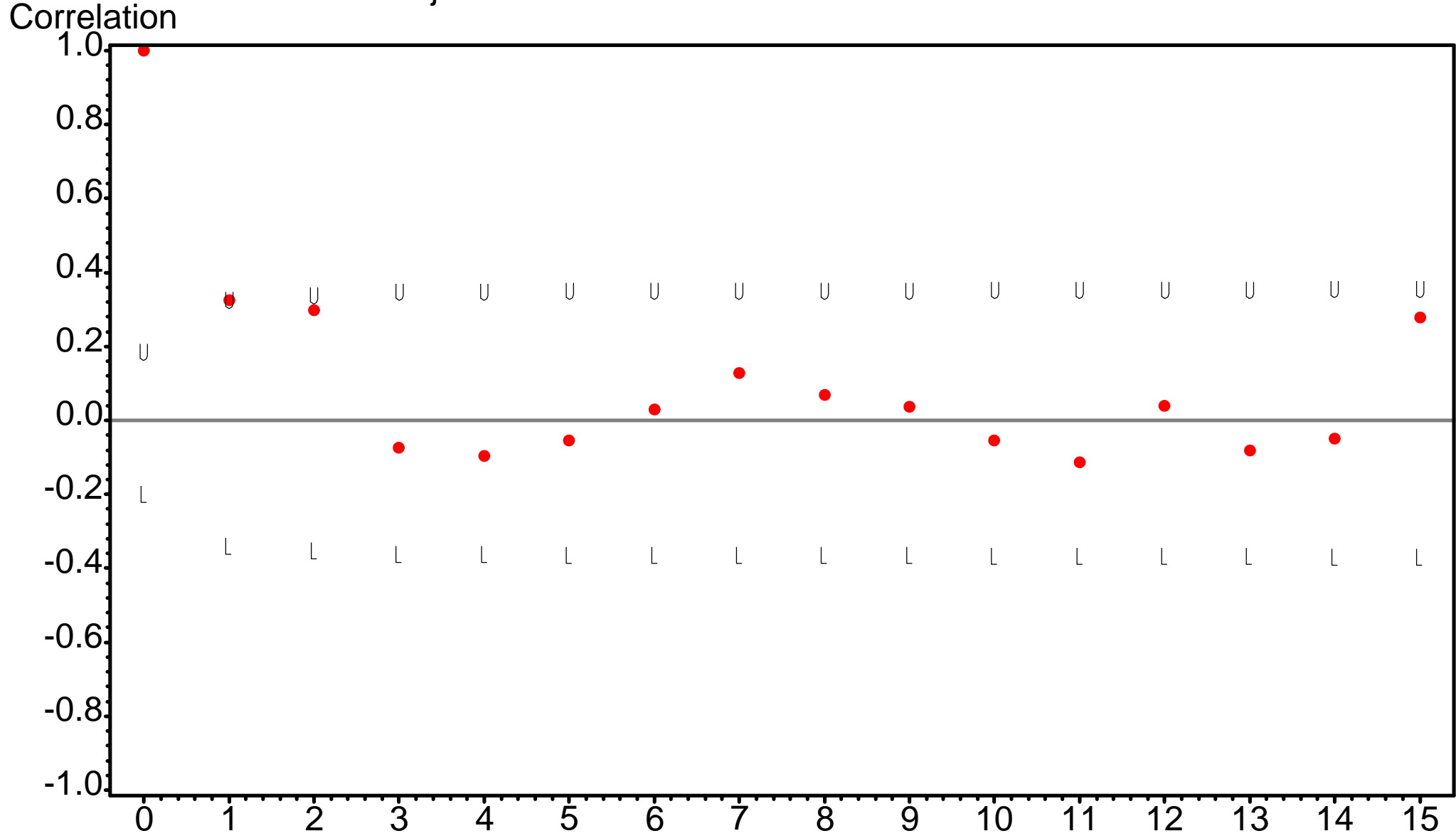
East Wall Trends Appendix - Display 609

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.325	0.167	0.333	-0.333
2	0.298	0.172	0.345	-0.345
3	-0.073	0.177	0.354	-0.354
4	-0.097	0.177	0.355	-0.355
5	-0.054	0.178	0.356	-0.356
6	0.030	0.178	0.356	-0.356
7	0.129	0.178	0.356	-0.356
8	0.068	0.179	0.358	-0.358
9	0.038	0.179	0.358	-0.358
10	-0.054	0.179	0.359	-0.359
11	-0.114	0.179	0.359	-0.359
12	0.039	0.180	0.360	-0.360
13	-0.080	0.180	0.360	-0.360
14	-0.049	0.180	0.361	-0.361
15	0.279	0.181	0.361	-0.361

East Wall Trends Appendix - Display 610

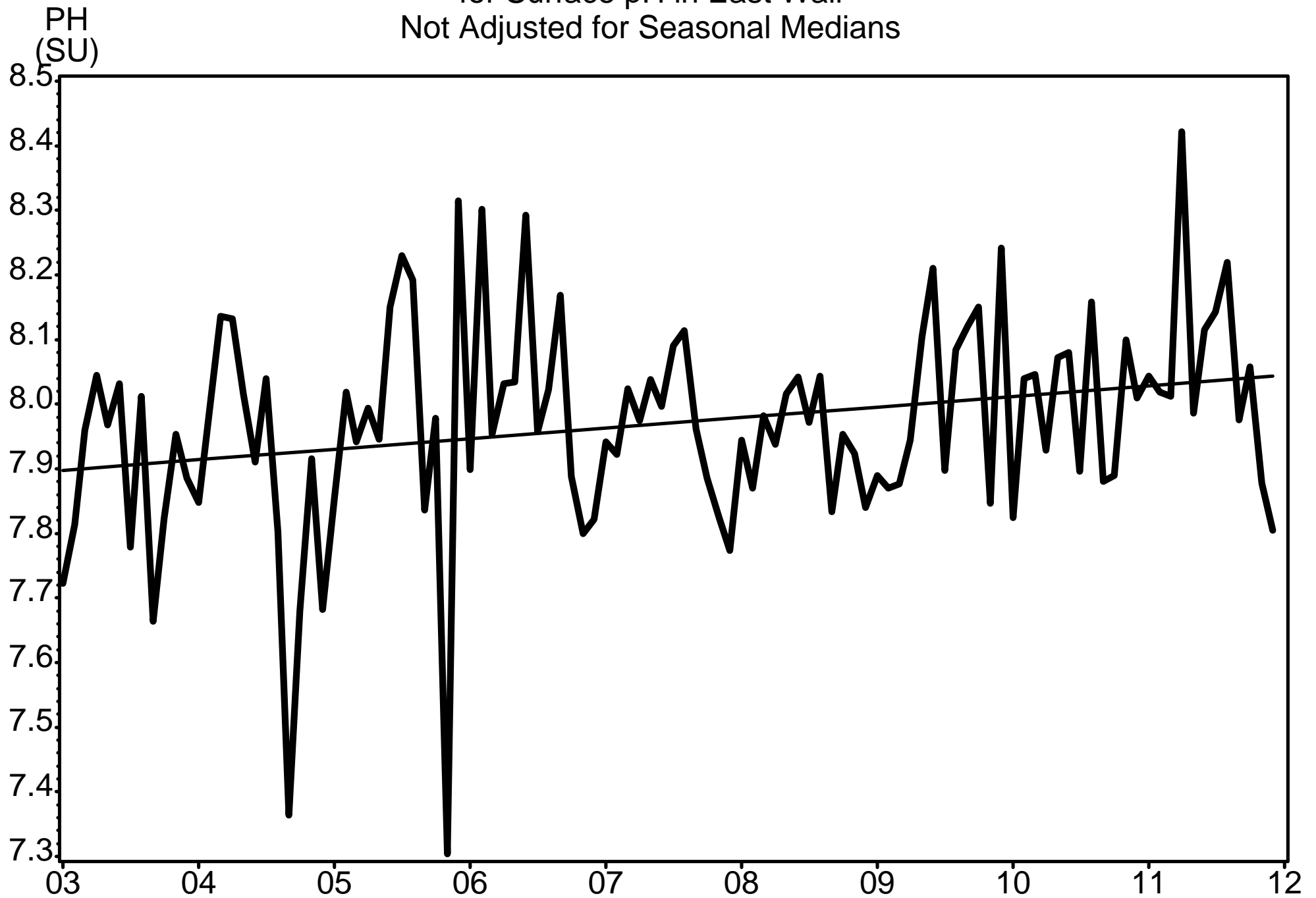
Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in East Wall
Adjusted for Seasonal Median and Detrended



Lagged Nitrate+Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 611

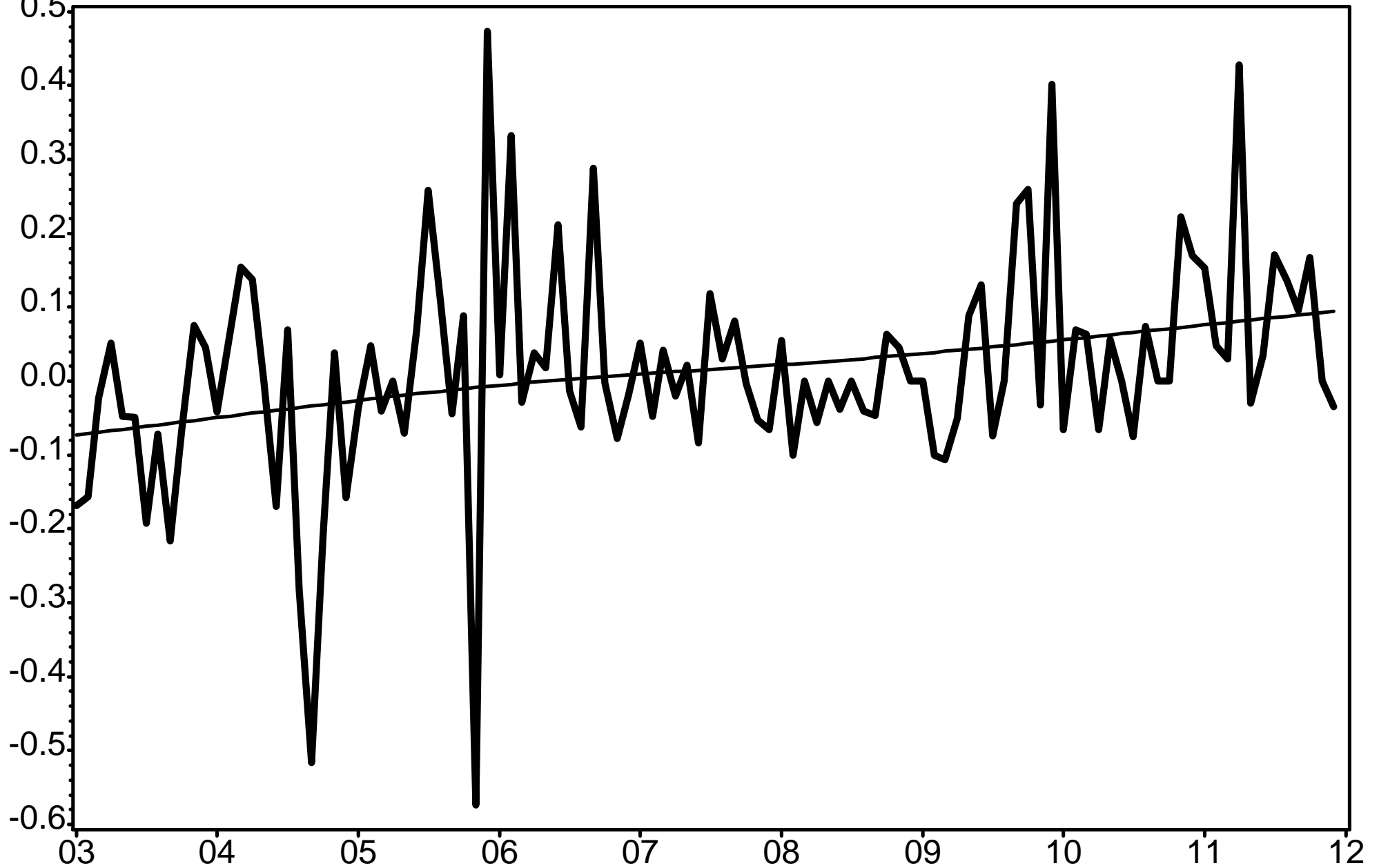
Monthly Data Time Series
for Surface pH in East Wall
Not Adjusted for Seasonal Medians



East Wall Trends Appendix - Display 612

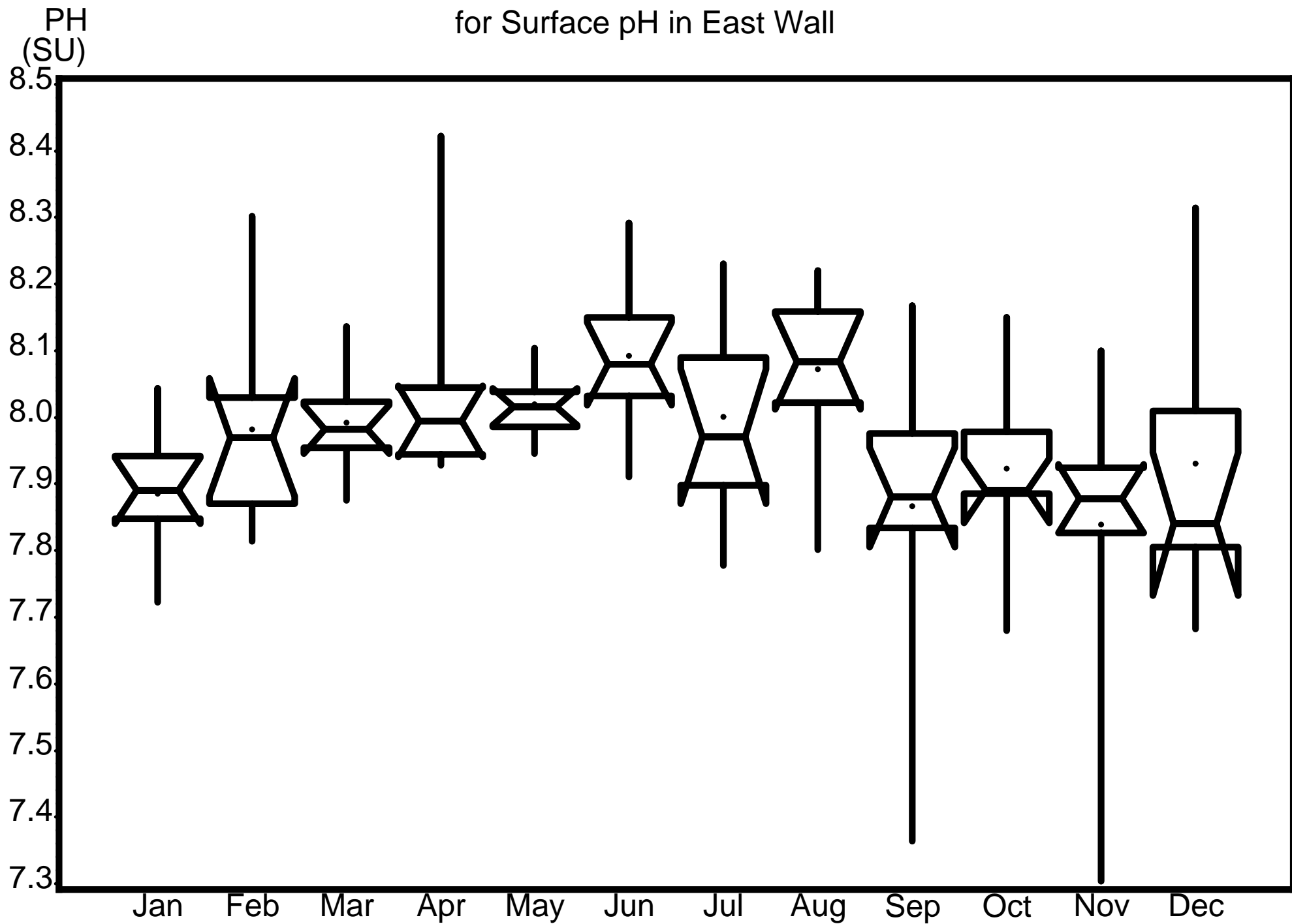
Monthly Data Time Series
for Surface pH in East Wall
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



East Wall Trends Appendix - Display 613

Seasonal Univariate Statistics
for Surface pH in East Wall

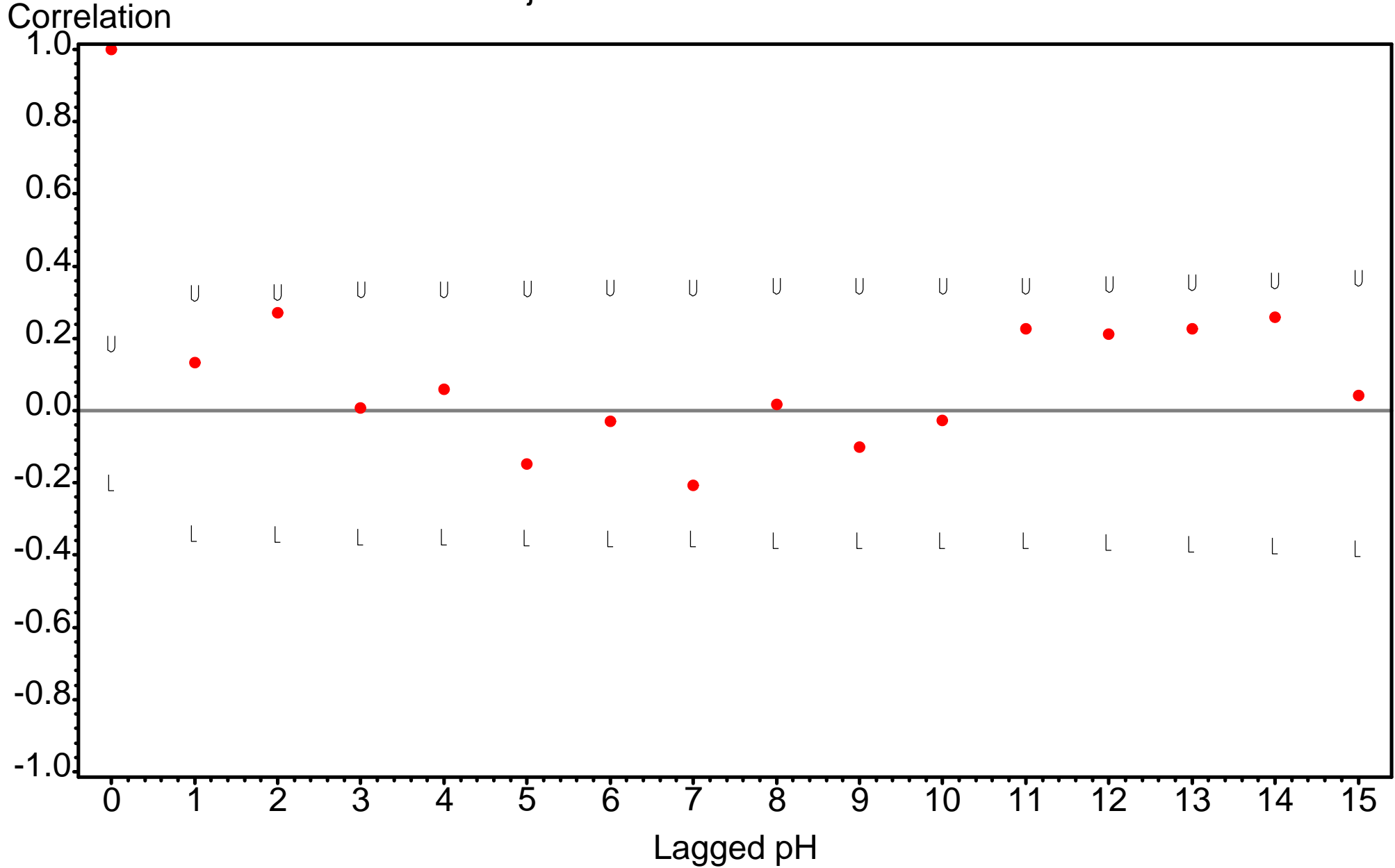


East Wall Trends Appendix - Display 614
Autocorrelation Statistics for Surface pH in East Wall

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.133	0.167	0.333	-0.333
2	0.270	0.168	0.335	-0.335
3	0.007	0.172	0.343	-0.343
4	0.059	0.172	0.343	-0.343
5	-0.147	0.172	0.344	-0.344
6	-0.030	0.173	0.346	-0.346
7	-0.206	0.173	0.346	-0.346
8	0.018	0.175	0.351	-0.351
9	-0.100	0.175	0.351	-0.351
10	-0.027	0.176	0.352	-0.352
11	0.227	0.176	0.352	-0.352
12	0.213	0.179	0.357	-0.357
13	0.227	0.181	0.362	-0.362
14	0.258	0.183	0.367	-0.367
15	0.043	0.187	0.374	-0.374

East Wall Trends Appendix - Display 615

Correlogram for Surface pH in East Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 616
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.16	0.015	0.015	0.013

East Wall Trends Appendix - Display 617
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in East Wall
Adjusted for Seasonal Medians

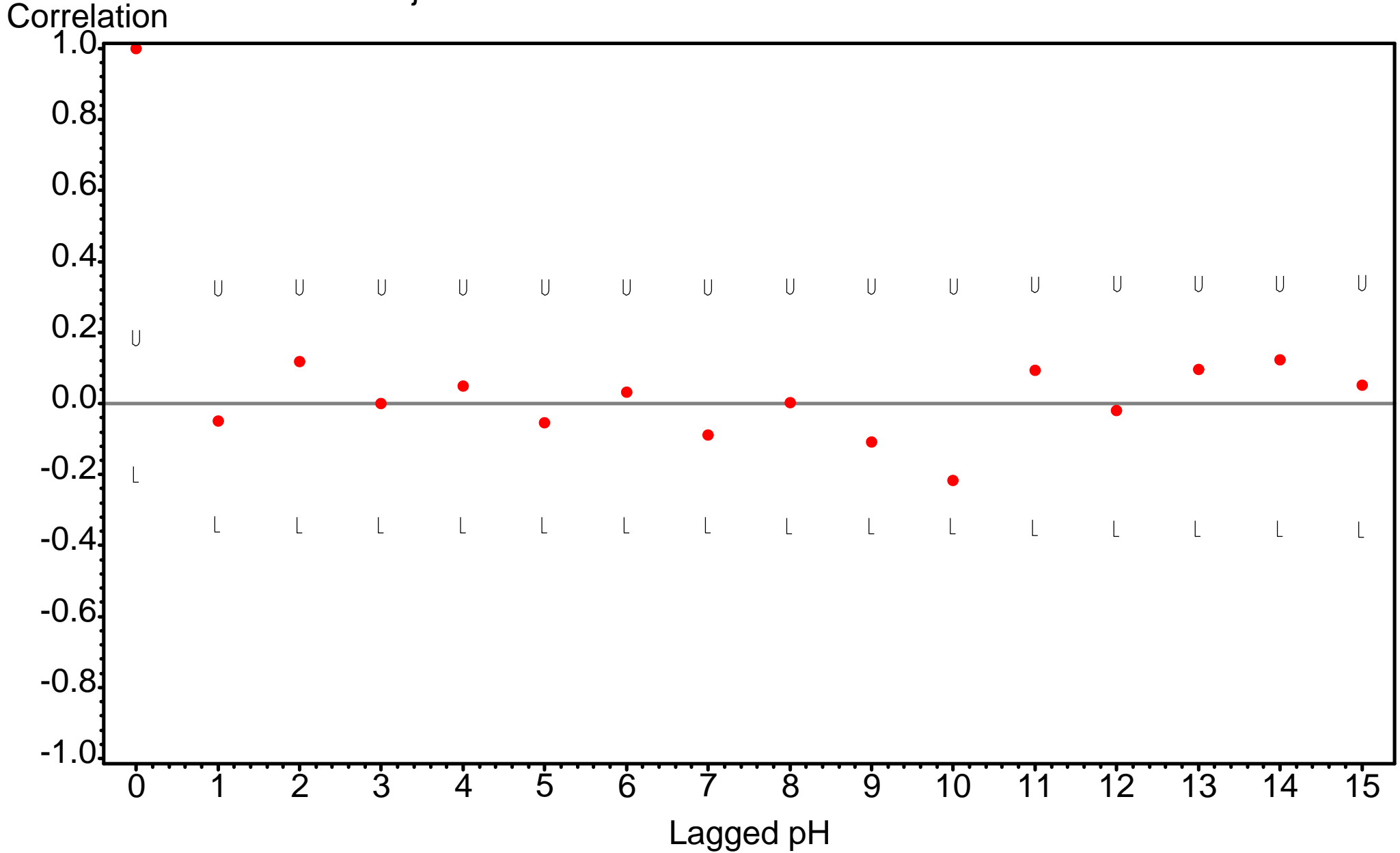
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.21934	.00500274	0.023872	0.013167

East Wall Trends Appendix - Display 619
Autocorrelation Statistics for Surface pH in East Wall
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.048	0.167	0.333	-0.333
2	0.119	0.167	0.334	-0.334
3	-0.001	0.168	0.335	-0.335
4	0.049	0.168	0.335	-0.335
5	-0.054	0.168	0.335	-0.335
6	0.032	0.168	0.336	-0.336
7	-0.089	0.168	0.336	-0.336
8	0.002	0.168	0.337	-0.337
9	-0.108	0.168	0.337	-0.337
10	-0.217	0.169	0.338	-0.338
11	0.094	0.172	0.343	-0.343
12	-0.019	0.172	0.344	-0.344
13	0.097	0.172	0.344	-0.344
14	0.122	0.173	0.345	-0.345
15	0.051	0.173	0.347	-0.347

East Wall Trends Appendix - Display 620

Correlogram for Surface pH in East Wall
Adjusted for Seasonal Median and Detrended

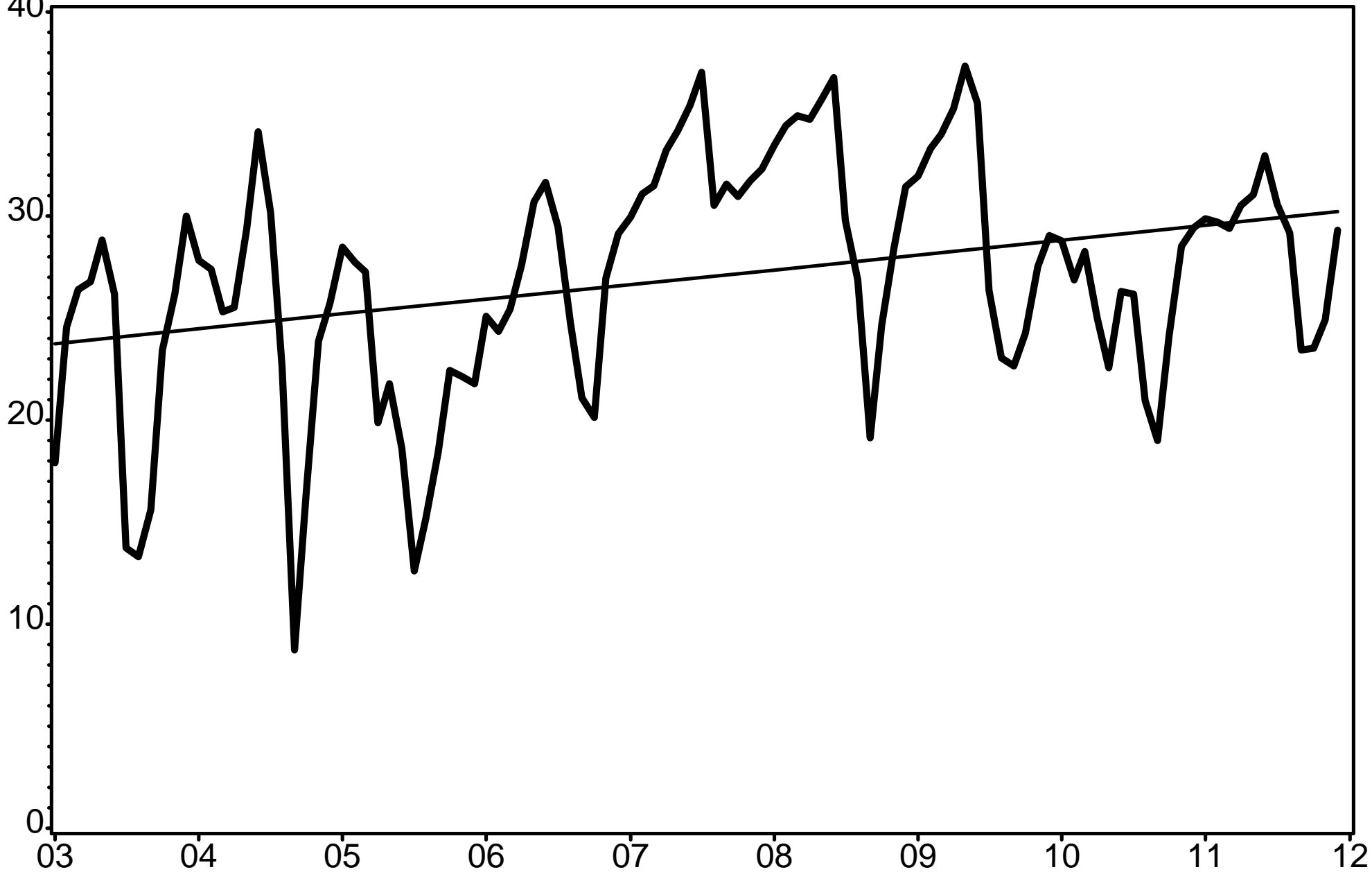


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 621

Monthly Data Time Series
for Surface Salinity in East Wall
Not Adjusted for Seasonal Medians

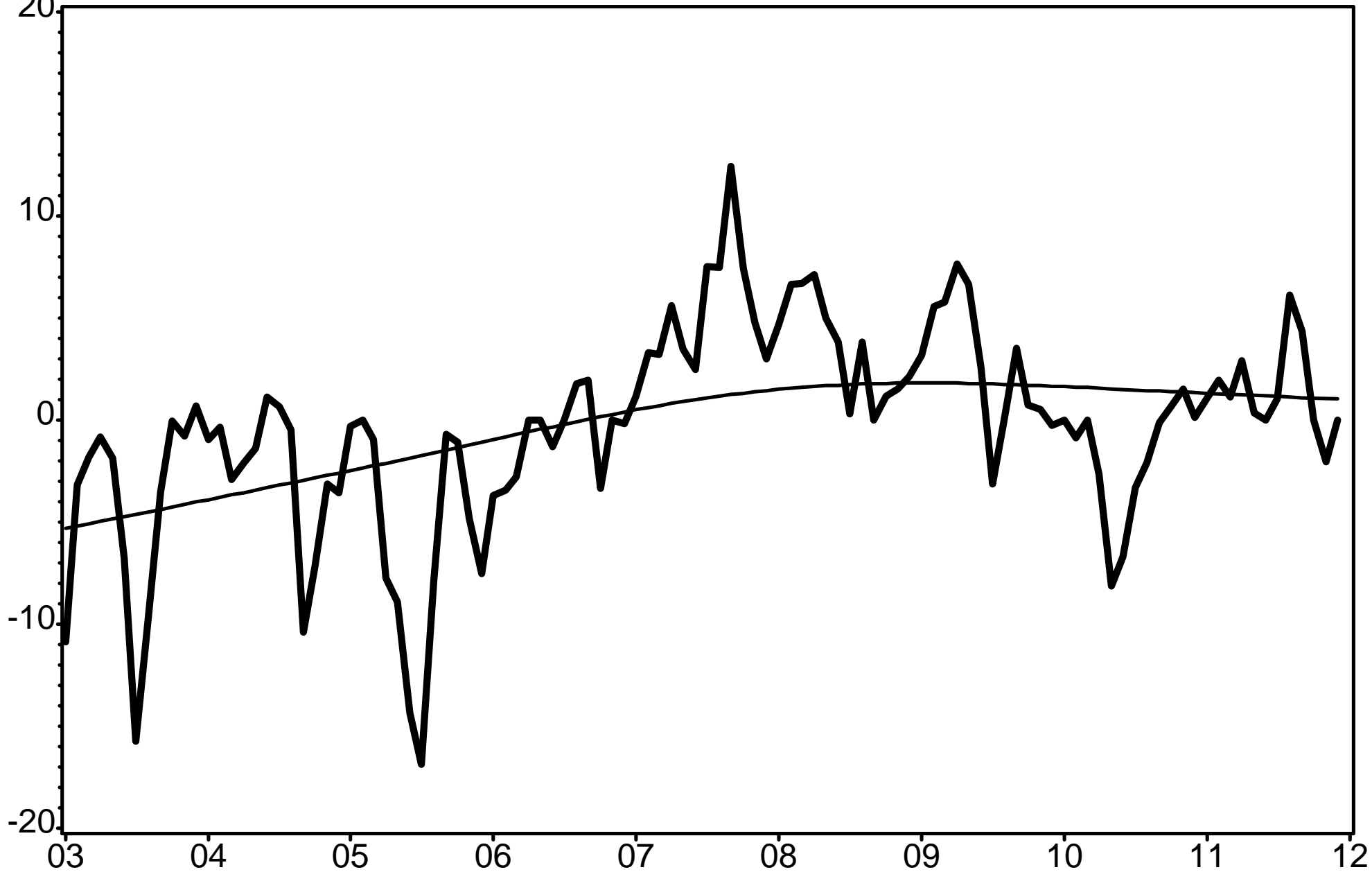
Salinity
(ppt)



East Wall Trends Appendix - Display 622

Monthly Data Time Series
for Surface Salinity in East Wall
Adjusted for Seasonal Medians

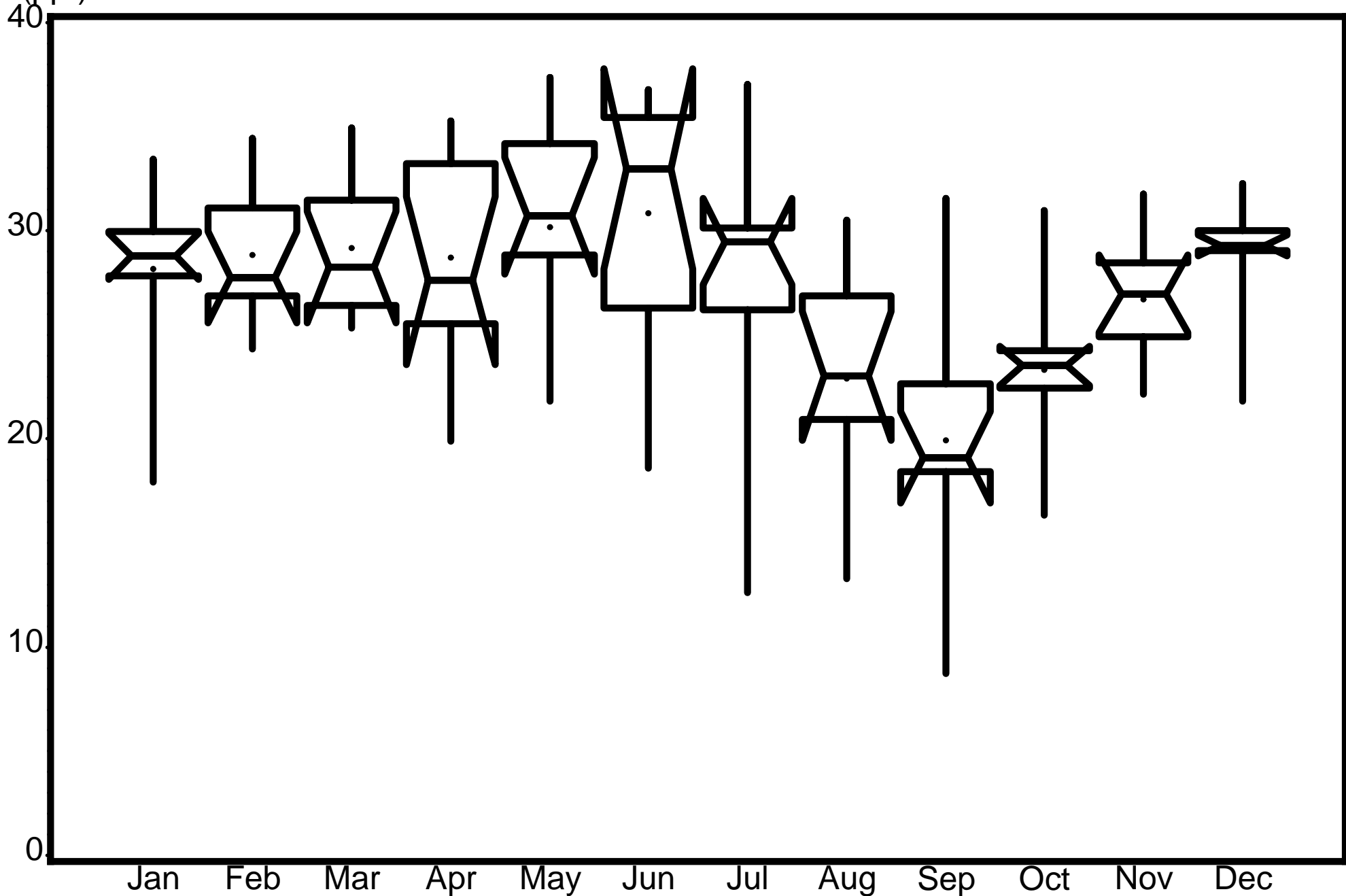
Adjusted
Salinity
(ppt)



East Wall Trends Appendix - Display 623

Seasonal Univariate Statistics
for Surface Salinity in East Wall

Salinity
(ppt)

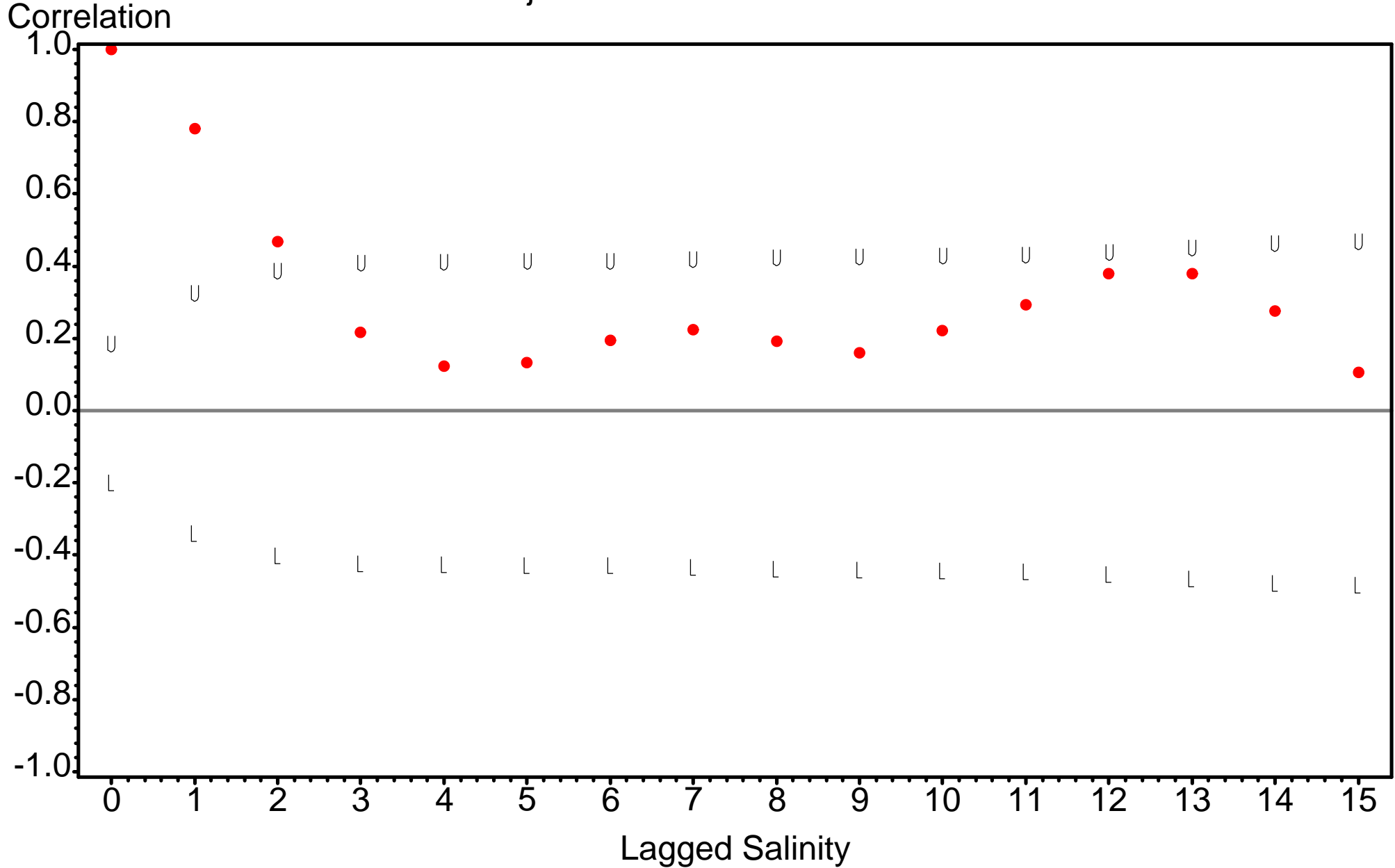


East Wall Trends Appendix - Display 624
Autocorrelation Statistics for Surface Salinity in East Wall

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.781	0.167	0.333	-0.333
2	0.467	0.198	0.395	-0.395
3	0.217	0.208	0.415	-0.415
4	0.123	0.210	0.419	-0.419
5	0.132	0.210	0.421	-0.421
6	0.194	0.211	0.422	-0.422
7	0.223	0.213	0.426	-0.426
8	0.191	0.215	0.430	-0.430
9	0.161	0.216	0.433	-0.433
10	0.221	0.218	0.435	-0.435
11	0.292	0.220	0.439	-0.439
12	0.380	0.223	0.446	-0.446
13	0.380	0.229	0.458	-0.458
14	0.276	0.235	0.470	-0.470
15	0.105	0.238	0.476	-0.476

East Wall Trends Appendix - Display 625

Correlogram for Surface Salinity in East Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 626
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.205	.002	.002	0.677

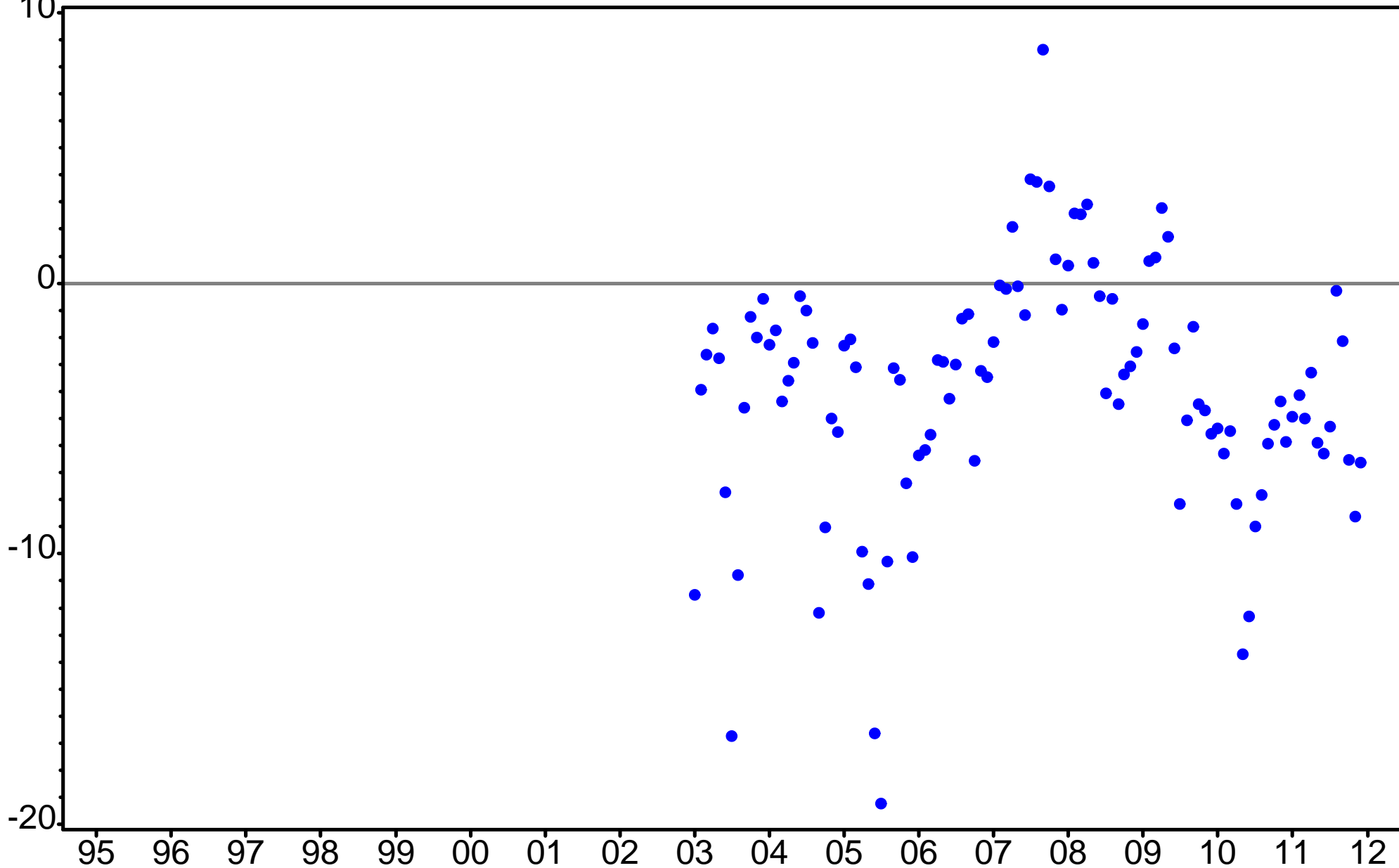
East Wall Trends Appendix - Display 627
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.32870	.000022173	0.11900	0.6698

East Wall Trends Appendix - Display 628

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
East Wall

Adjusted
(ppt)



Zero Reference Line Shown

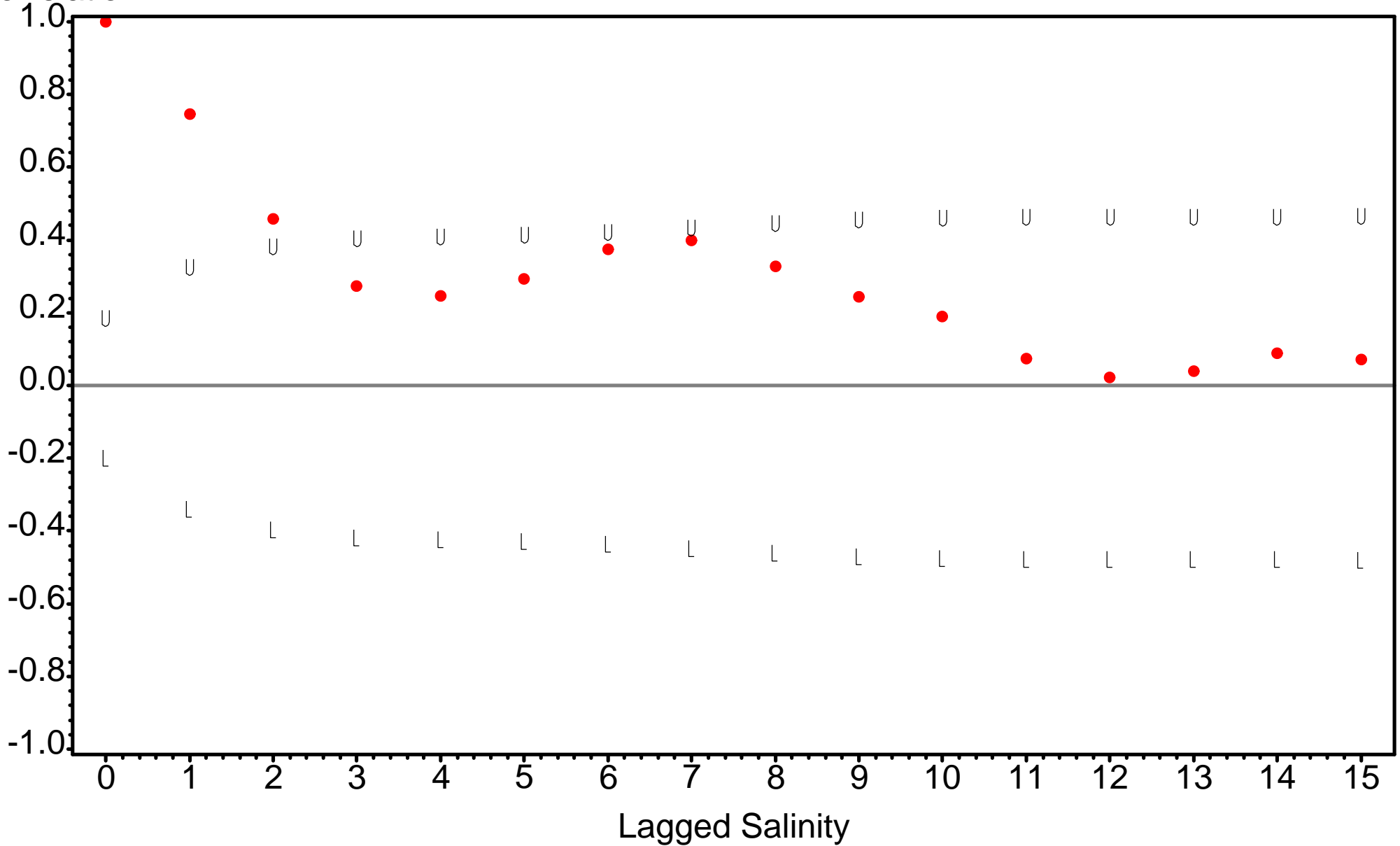
East Wall Trends Appendix - Display 629
Autocorrelation Statistics for Surface Salinity in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.746	0.167	0.333	-0.333
2	0.458	0.195	0.390	-0.390
3	0.273	0.205	0.410	-0.410
4	0.246	0.208	0.416	-0.416
5	0.294	0.211	0.422	-0.422
6	0.375	0.215	0.429	-0.429
7	0.398	0.221	0.441	-0.441
8	0.328	0.227	0.454	-0.454
9	0.245	0.232	0.463	-0.463
10	0.190	0.234	0.468	-0.468
11	0.074	0.235	0.471	-0.471
12	0.022	0.236	0.471	-0.471
13	0.040	0.236	0.471	-0.471
14	0.089	0.236	0.471	-0.471
15	0.071	0.236	0.472	-0.472

East Wall Trends Appendix - Display 630

Correlogram for Surface Salinity in East Wall
Adjusted for Seasonal Median and Detrended

Correlation

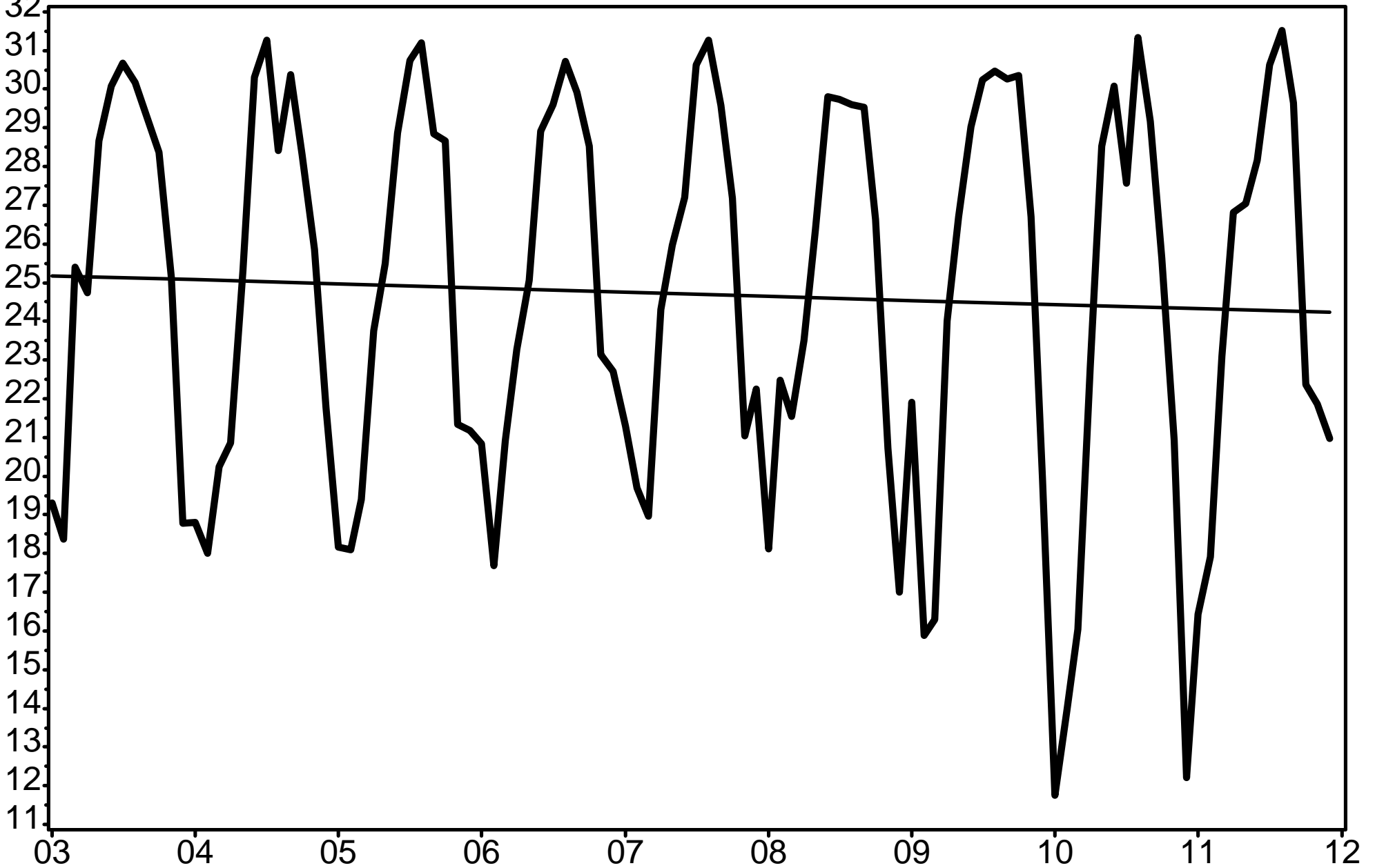


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 631

Monthly Data Time Series
for Surface Temperature in East Wall
Not Adjusted for Seasonal Medians

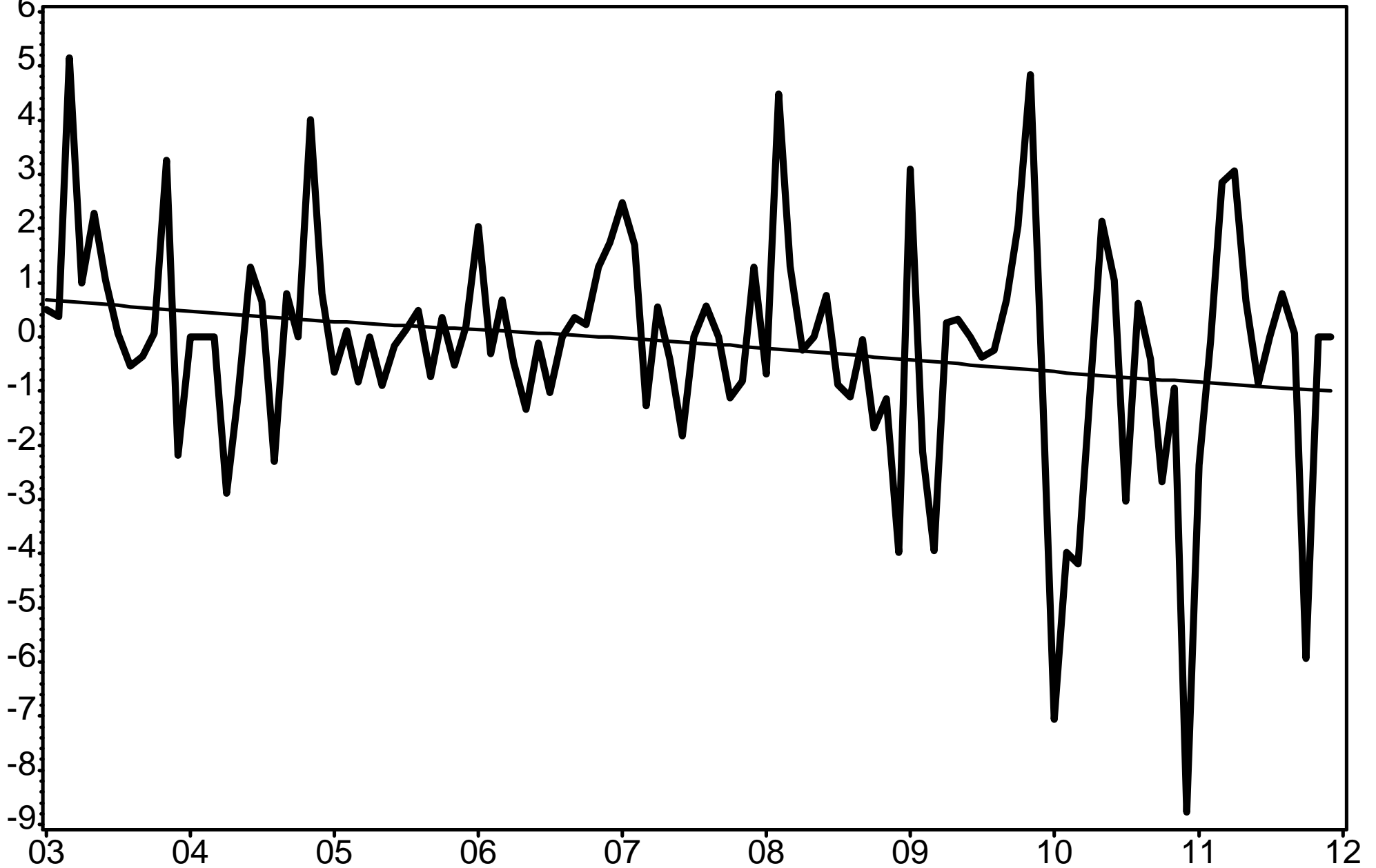
TEMP_C
(Degree C)



East Wall Trends Appendix - Display 632

Monthly Data Time Series
for Surface Temperature in East Wall
Adjusted for Seasonal Medians

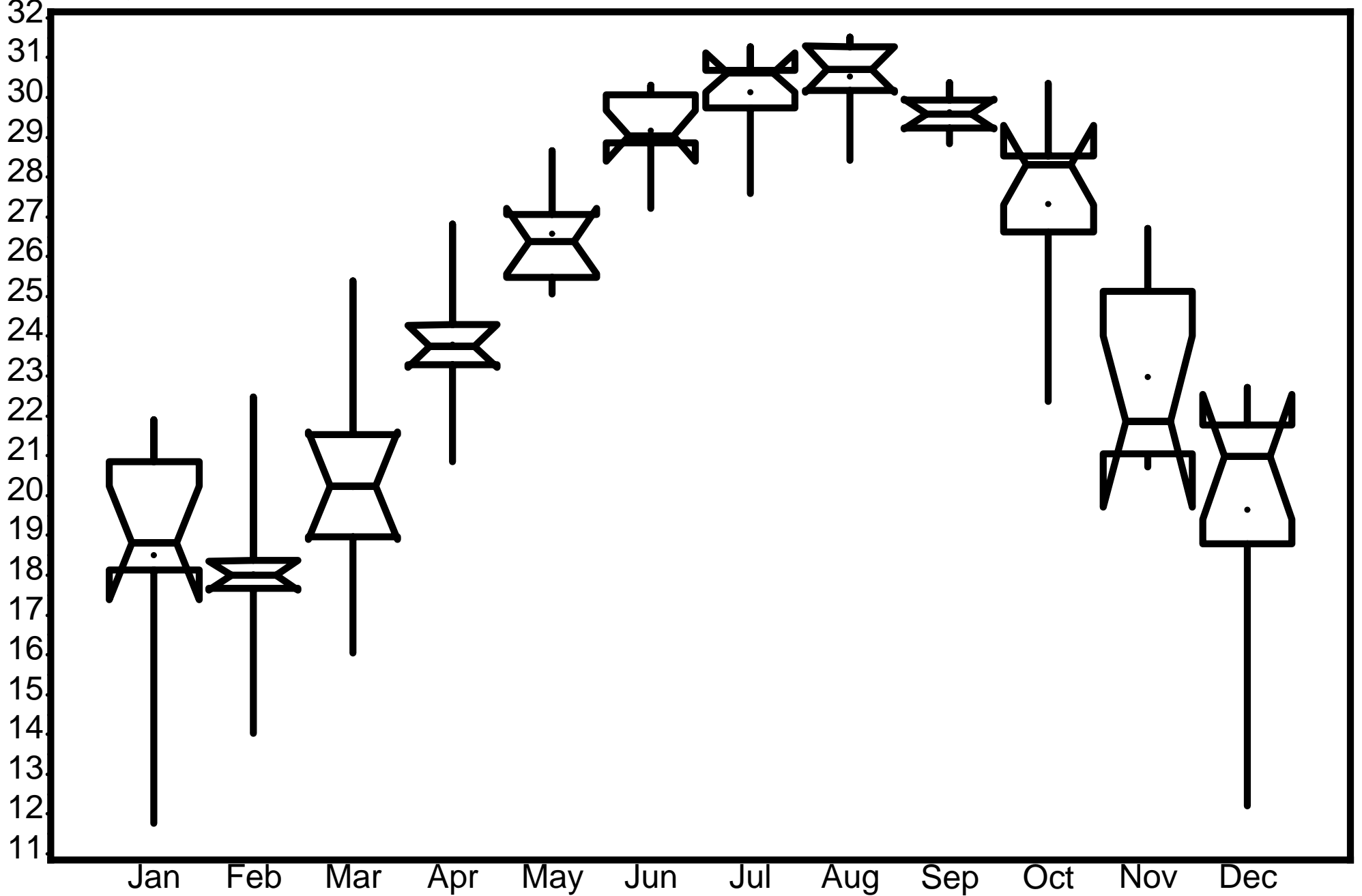
Adjusted
TEMP_C
(Degree C)



East Wall Trends Appendix - Display 633

Seasonal Univariate Statistics
for Surface Temperature in East Wall

TEMP_C
(Degree C)



East Wall Trends Appendix - Display 634

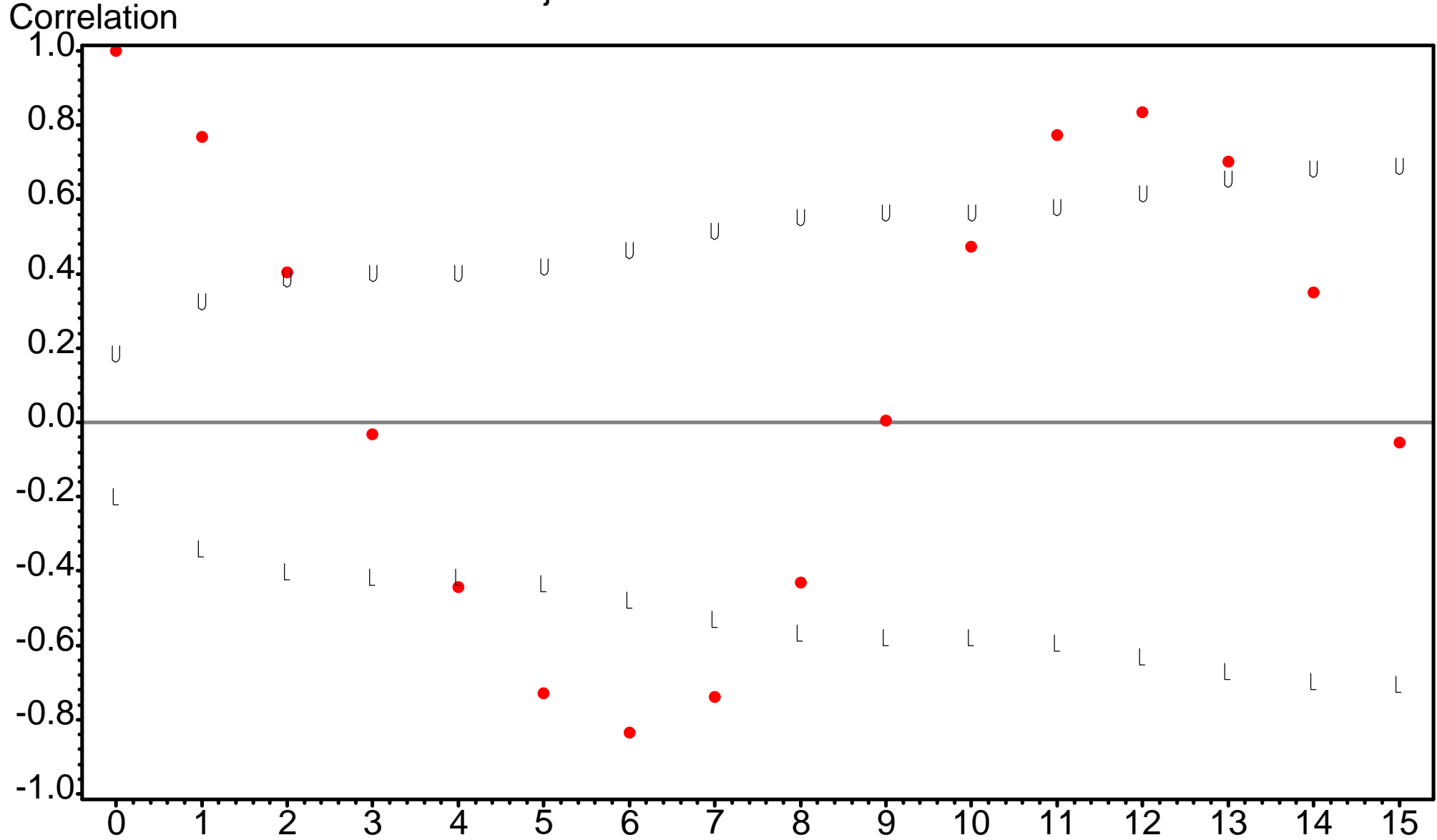
Autocorrelation Statistics for Surface Temperature in East Wall

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.769	0.167	0.333	-0.333
2	0.405	0.197	0.394	-0.394
3	-0.033	0.204	0.409	-0.409
4	-0.443	0.204	0.409	-0.409
5	-0.729	0.213	0.426	-0.426
6	-0.835	0.235	0.470	-0.470
7	-0.738	0.261	0.522	-0.522
8	-0.430	0.280	0.559	-0.559
9	0.005	0.286	0.572	-0.572
10	0.473	0.286	0.572	-0.572
11	0.772	0.293	0.586	-0.586
12	0.835	0.311	0.622	-0.622
13	0.701	0.331	0.663	-0.663
14	0.350	0.345	0.690	-0.690
15	-0.054	0.348	0.696	-0.696

East Wall Trends Appendix - Display 635

Correlogram for Surface Temperature in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 636
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.007	0.913	0.913	-0.02

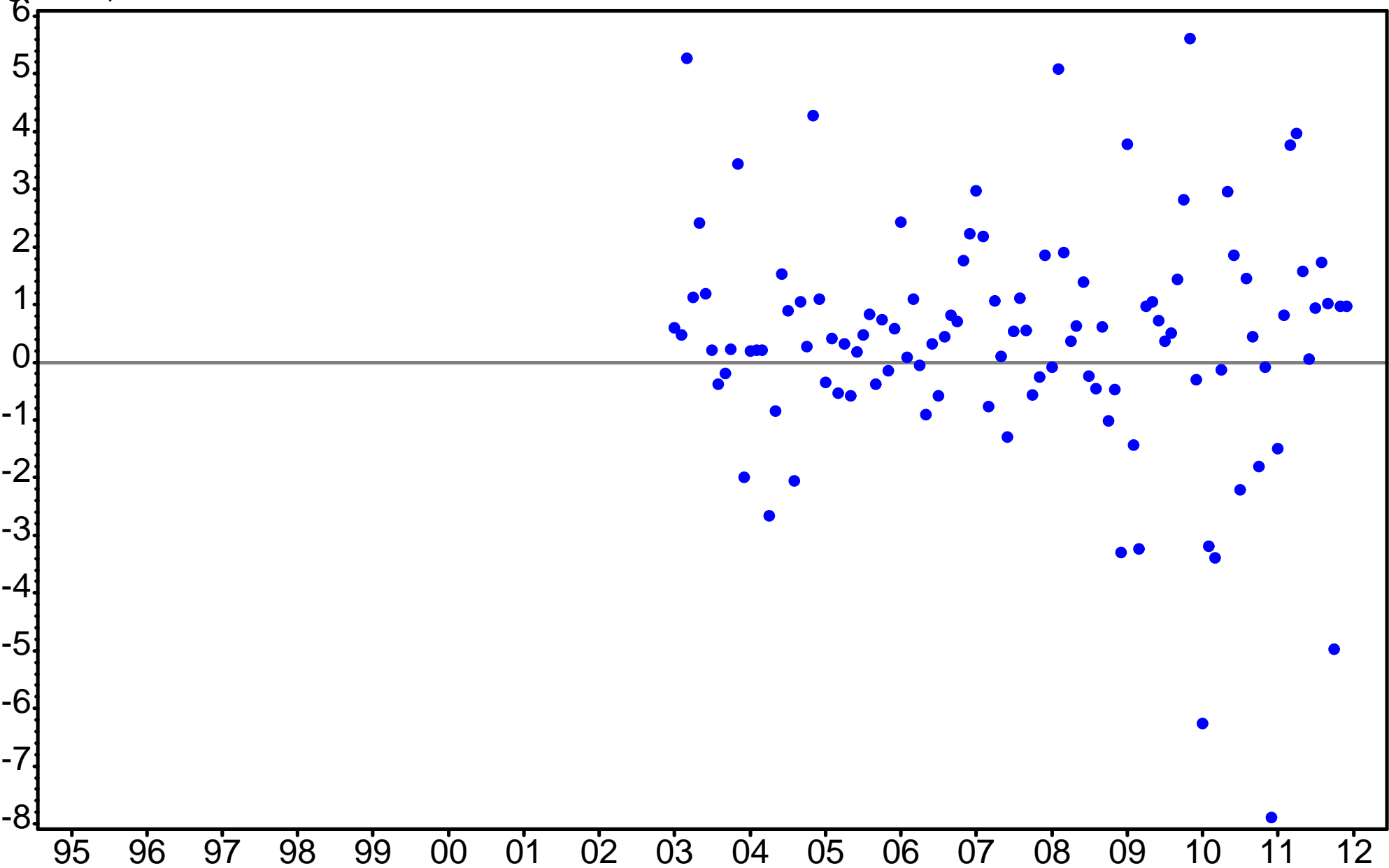
East Wall Trends Appendix - Display 637
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.11111	0.15721	0.24427	-0.098143

East Wall Trends Appendix - Display 638

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
East Wall

Adjusted
(Degree C)



Zero Reference Line Shown

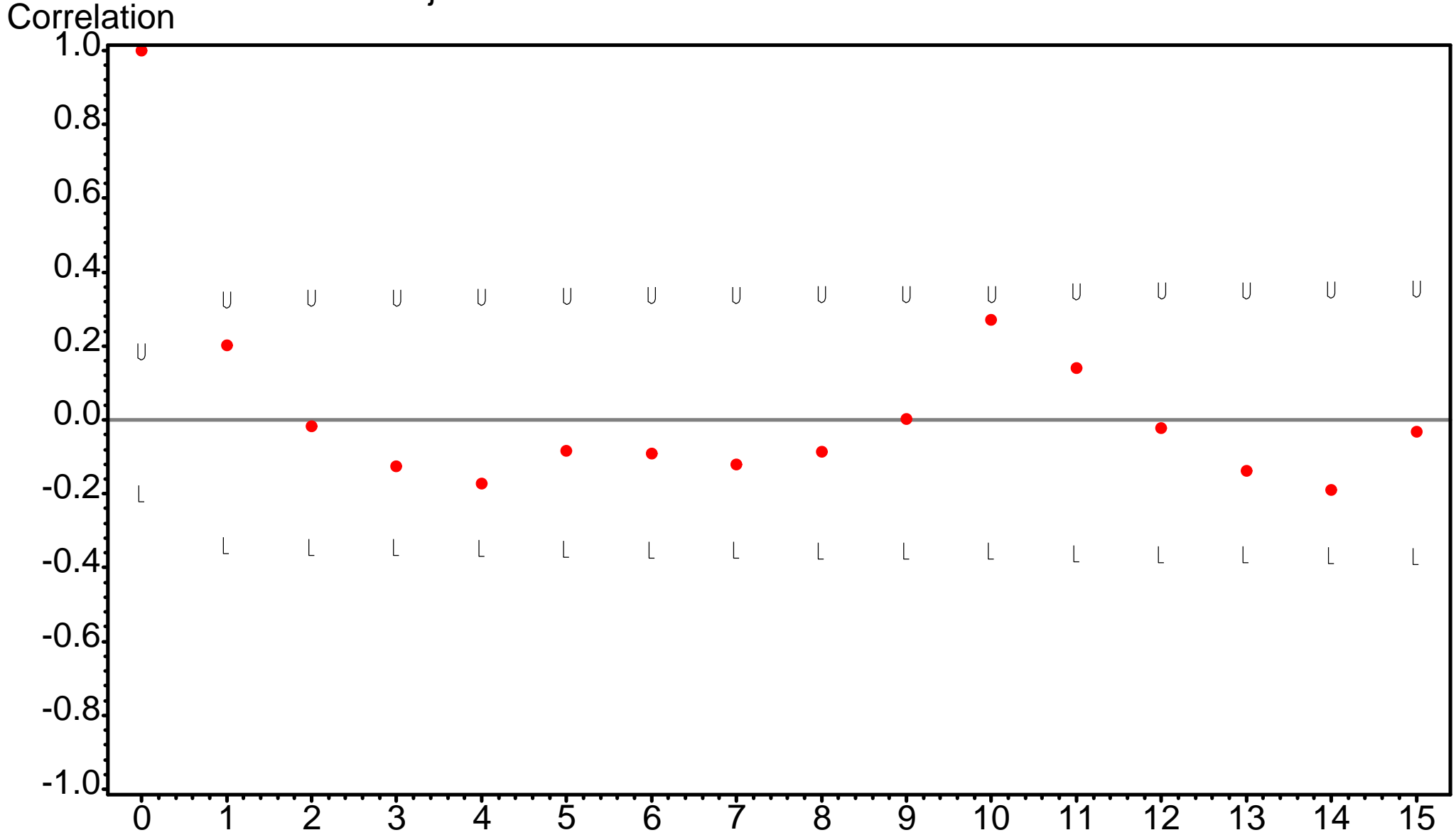
East Wall Trends Appendix - Display 639
Autocorrelation Statistics for Surface Temperature in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.202	0.167	0.333	-0.333
2	-0.016	0.169	0.338	-0.338
3	-0.125	0.169	0.338	-0.338
4	-0.173	0.170	0.340	-0.340
5	-0.084	0.171	0.343	-0.343
6	-0.092	0.172	0.344	-0.344
7	-0.121	0.172	0.344	-0.344
8	-0.086	0.173	0.346	-0.346
9	0.002	0.173	0.347	-0.347
10	0.272	0.173	0.347	-0.347
11	0.140	0.177	0.355	-0.355
12	-0.023	0.178	0.357	-0.357
13	-0.138	0.178	0.357	-0.357
14	-0.190	0.179	0.359	-0.359
15	-0.032	0.181	0.362	-0.362

East Wall Trends Appendix - Display 640

Correlogram for Surface Temperature in East Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

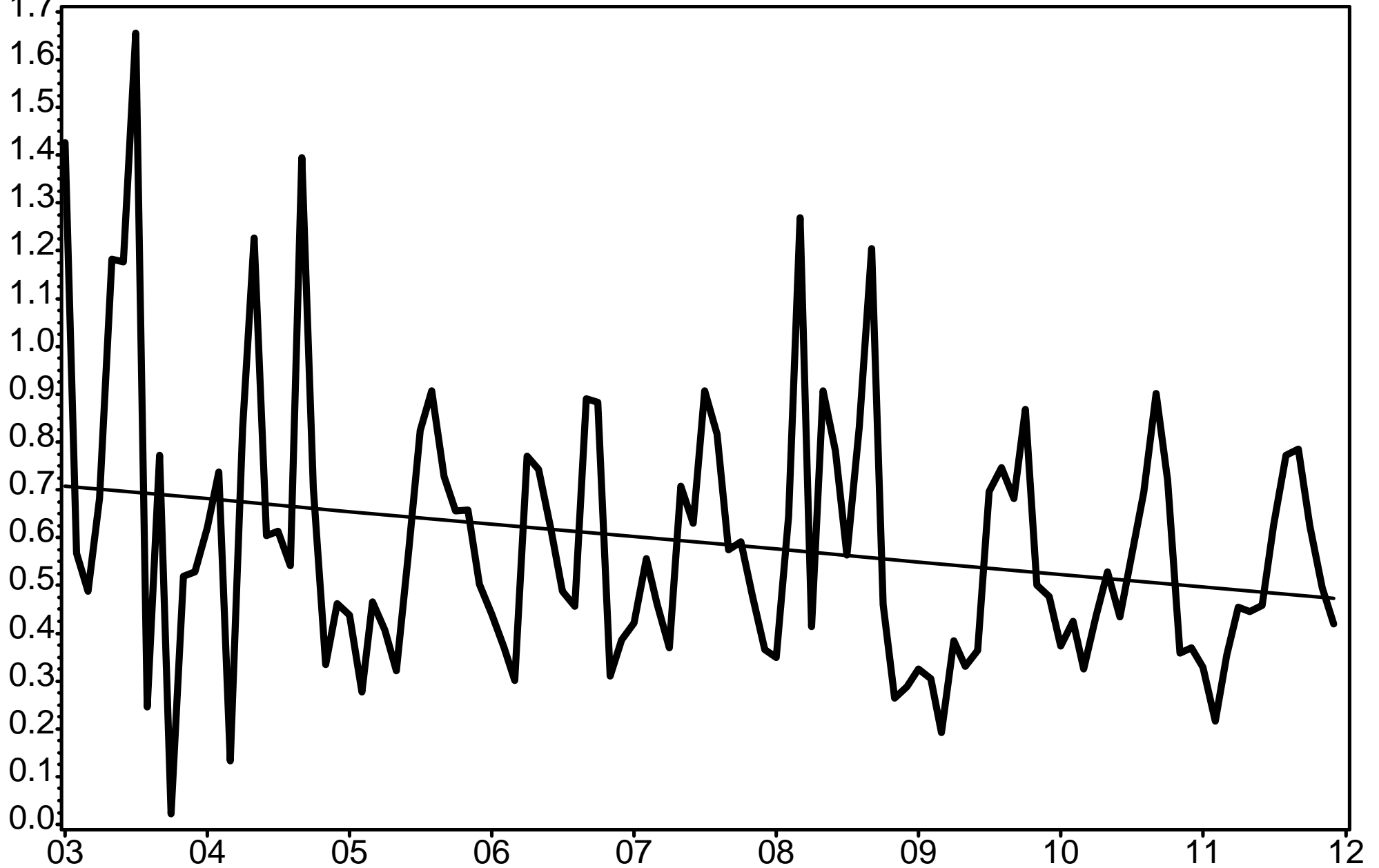
East Wall Trends Appendix - Display 641

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in East Wall

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



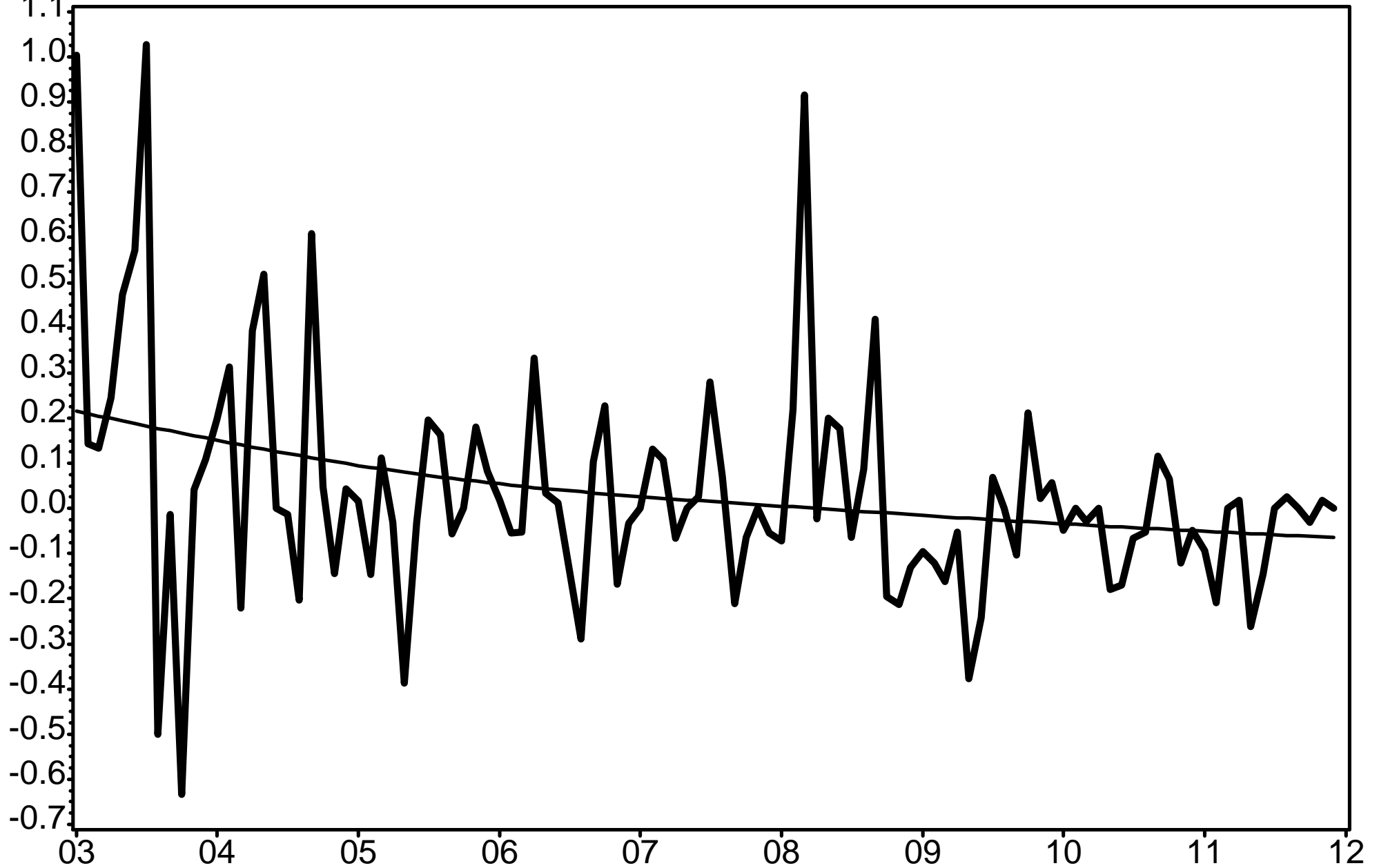
East Wall Trends Appendix - Display 642

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in East Wall

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

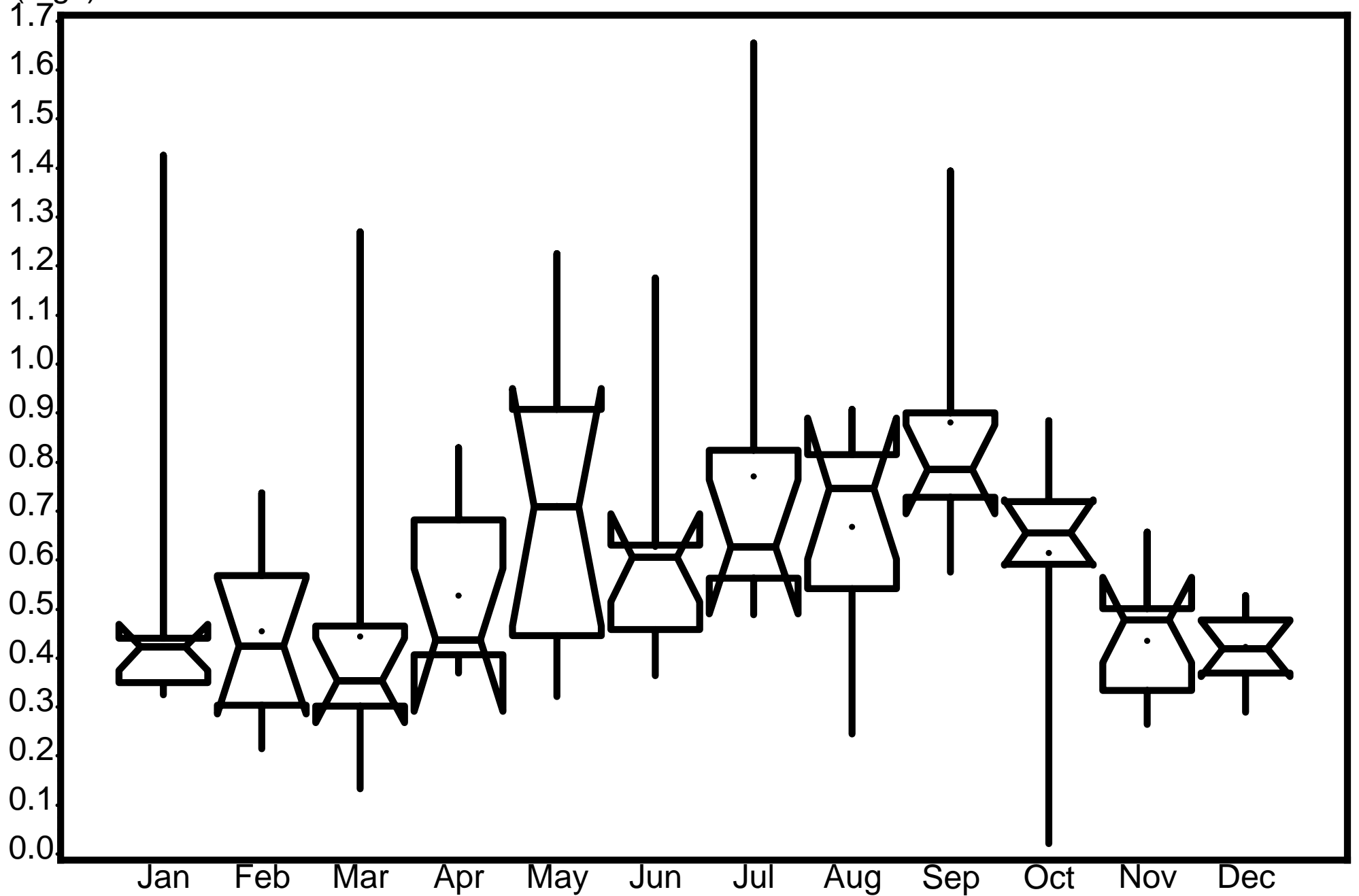


East Wall Trends Appendix - Display 643

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in East Wall

TKN_mgl
(mg/l)



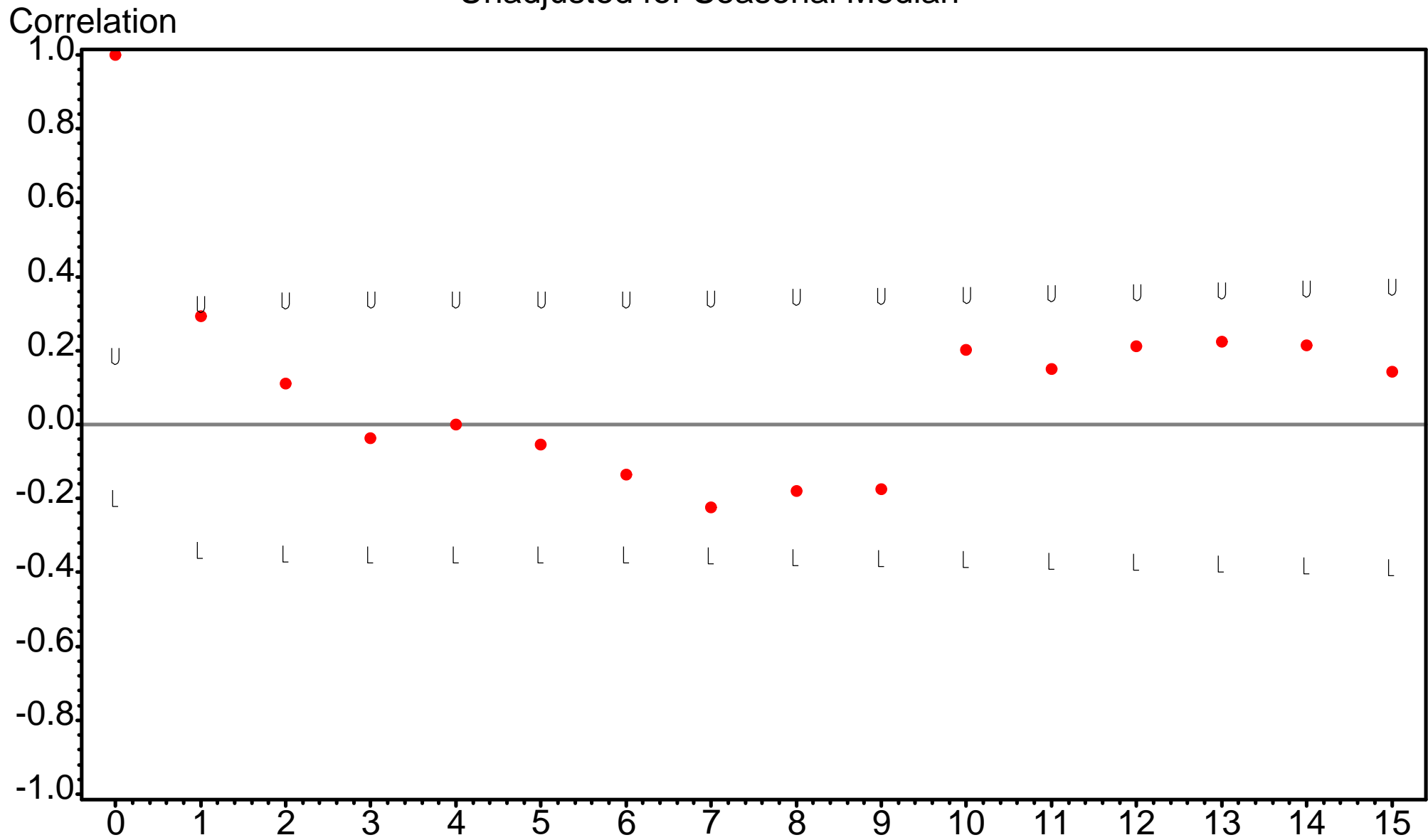
East Wall Trends Appendix - Display 644
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in East Wall

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.294	0.167	0.333	-0.333
2	0.111	0.171	0.343	-0.343
3	-0.038	0.172	0.344	-0.344
4	0.000	0.172	0.344	-0.344
5	-0.053	0.172	0.344	-0.344
6	-0.135	0.172	0.345	-0.345
7	-0.224	0.173	0.347	-0.347
8	-0.179	0.176	0.352	-0.352
9	-0.174	0.178	0.355	-0.355
10	0.203	0.179	0.358	-0.358
11	0.149	0.181	0.363	-0.363
12	0.213	0.182	0.365	-0.365
13	0.225	0.185	0.369	-0.369
14	0.215	0.187	0.374	-0.374
15	0.143	0.190	0.379	-0.379

East Wall Trends Appendix - Display 645

Correlogram for Surface Total Kjeldahl Nitrogen in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 646
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in East Wall
Unadjusted for Seasonal Medians

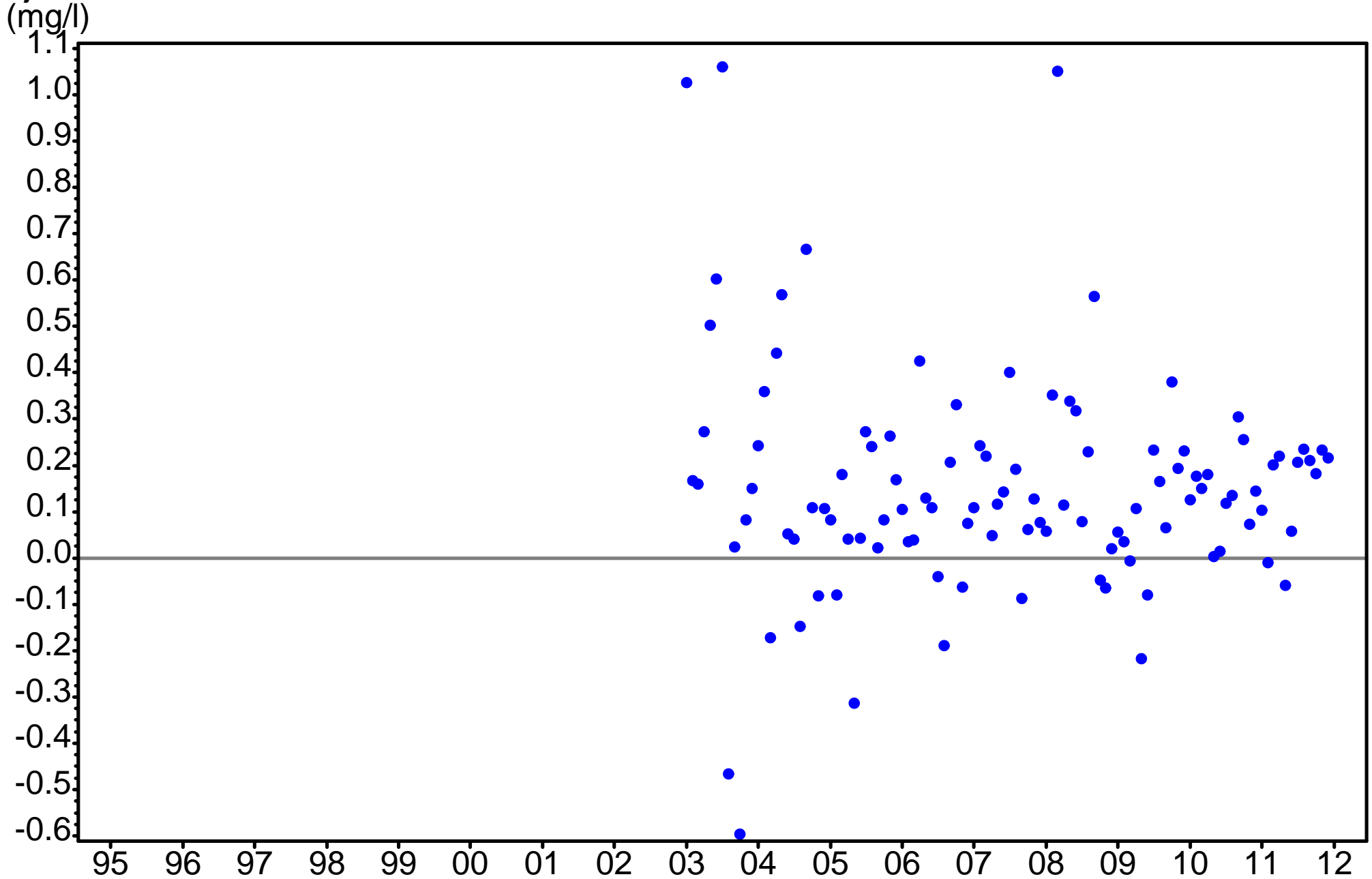
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.129	0.049	0.049	-0.018

East Wall Trends Appendix - Display 647
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21296	.00616654	0.016482	-0.021833

East Wall Trends Appendix - Display 648

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted East Wall



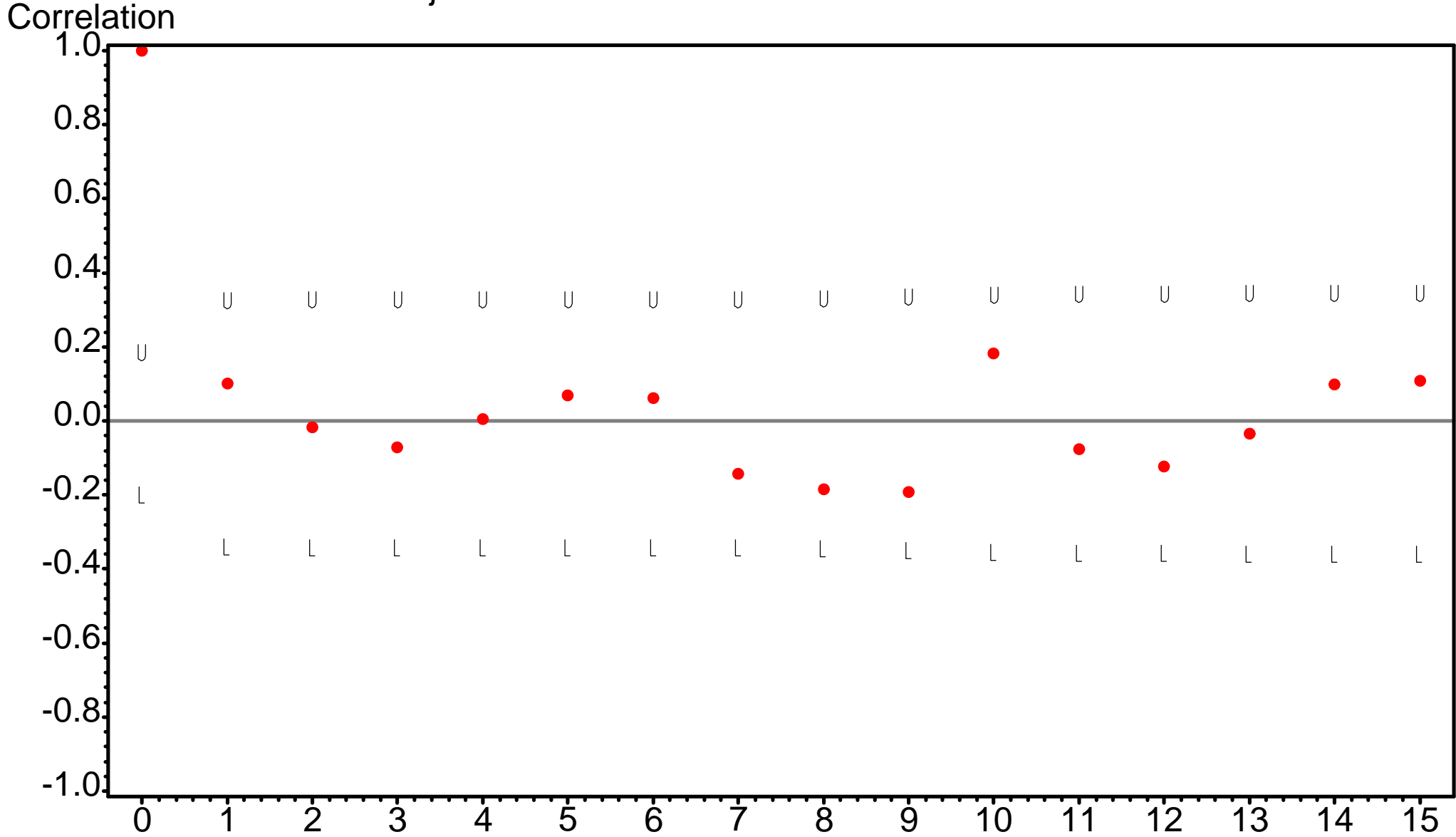
Zero Reference Line Shown

East Wall Trends Appendix - Display 649
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.102	0.167	0.333	-0.333
2	-0.017	0.167	0.334	-0.334
3	-0.071	0.167	0.335	-0.335
4	0.004	0.168	0.335	-0.335
5	0.068	0.168	0.335	-0.335
6	0.061	0.168	0.336	-0.336
7	-0.143	0.168	0.336	-0.336
8	-0.184	0.169	0.338	-0.338
9	-0.191	0.171	0.342	-0.342
10	0.182	0.173	0.346	-0.346
11	-0.077	0.175	0.349	-0.349
12	-0.123	0.175	0.350	-0.350
13	-0.035	0.176	0.352	-0.352
14	0.098	0.176	0.352	-0.352
15	0.109	0.176	0.353	-0.353

East Wall Trends Appendix - Display 650

Correlogram for Surface Total Kjeldahl Nitrogen in East Wall Adjusted for Seasonal Median and Detrended

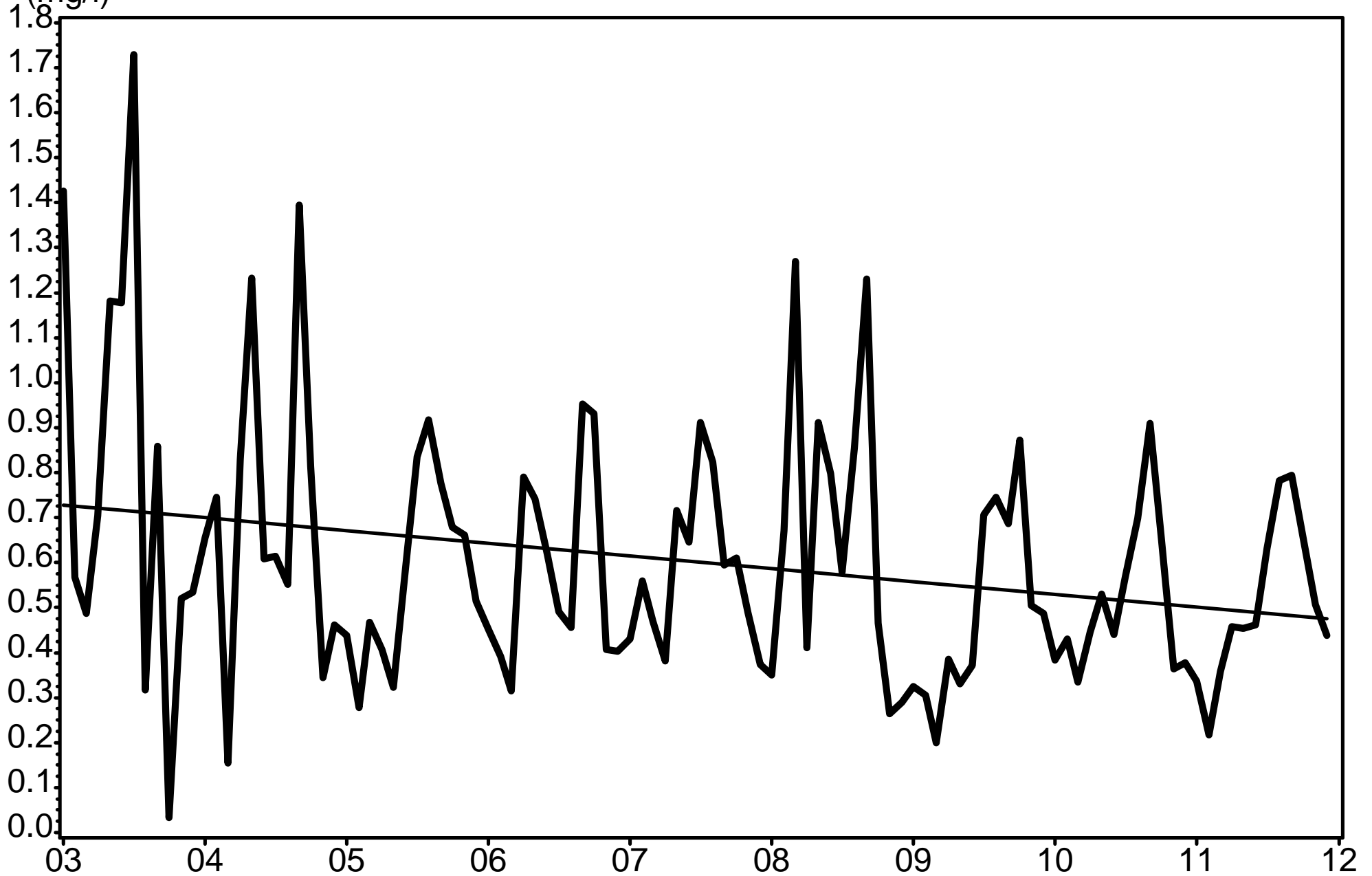


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 651

Monthly Data Time Series
for Surface Total Nitrogen in East Wall
Not Adjusted for Seasonal Medians

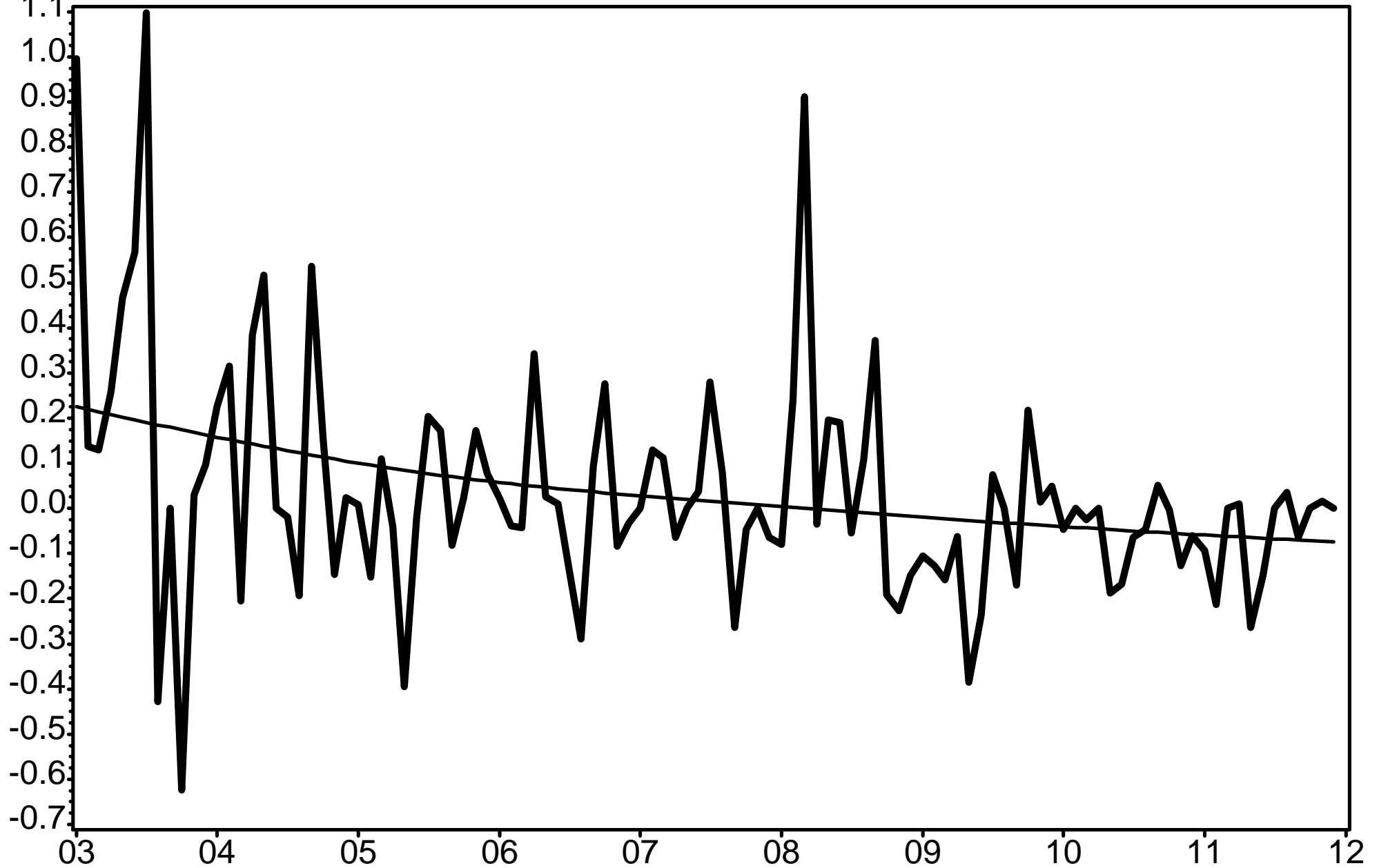
TN_mgl
(mg/l)



East Wall Trends Appendix - Display 652

Monthly Data Time Series
for Surface Total Nitrogen in East Wall
Adjusted for Seasonal Medians

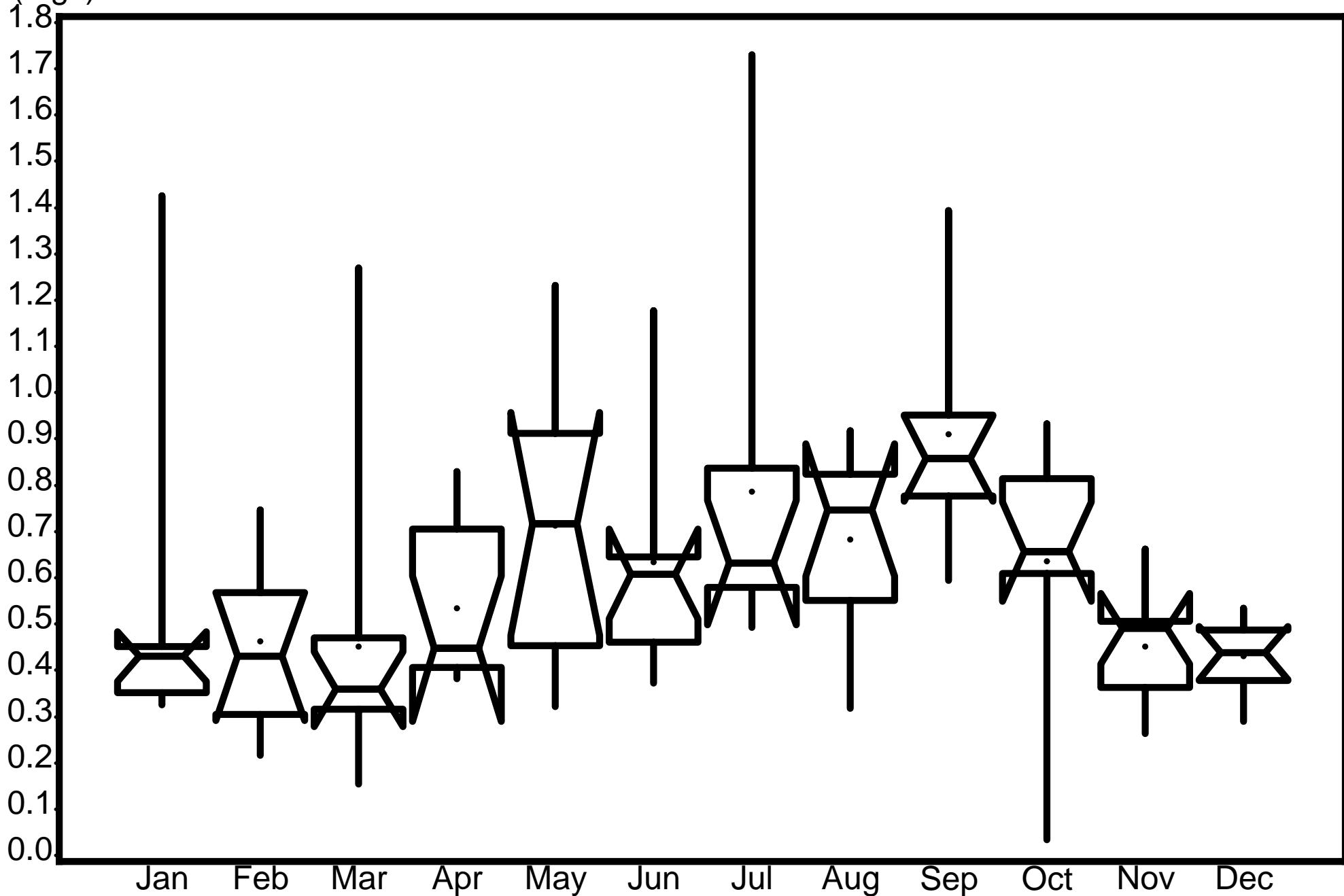
Adjusted
TN_mgl
(mg/l)



East Wall Trends Appendix - Display 653

Seasonal Univariate Statistics
for Surface Total Nitrogen in East Wall

TN_mgl
(mg/l)



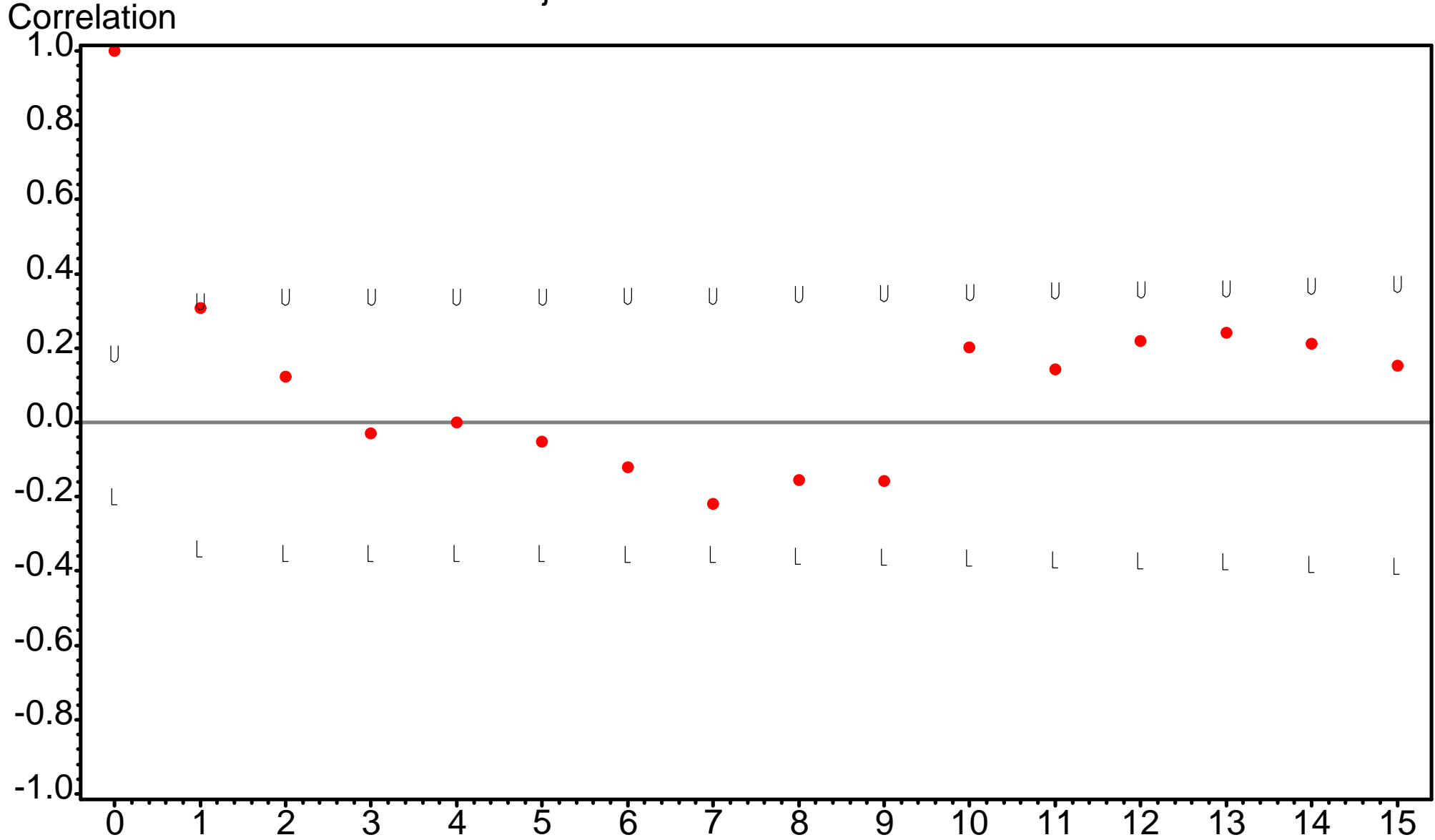
East Wall Trends Appendix - Display 654
Autocorrelation Statistics for Surface Total Nitrogen in East Wall

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.307	0.167	0.333	-0.333
2	0.123	0.172	0.344	-0.344
3	-0.029	0.173	0.345	-0.345
4	0.001	0.173	0.345	-0.345
5	-0.051	0.173	0.345	-0.345
6	-0.121	0.173	0.346	-0.346
7	-0.218	0.174	0.347	-0.347
8	-0.154	0.176	0.352	-0.352
9	-0.157	0.177	0.355	-0.355
10	0.201	0.179	0.357	-0.357
11	0.144	0.181	0.361	-0.361
12	0.218	0.182	0.364	-0.364
13	0.241	0.184	0.368	-0.368
14	0.212	0.187	0.374	-0.374
15	0.152	0.189	0.379	-0.379

East Wall Trends Appendix - Display 655

Correlogram for Surface Total Nitrogen in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 656
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.142	0.029	0.029	-0.02

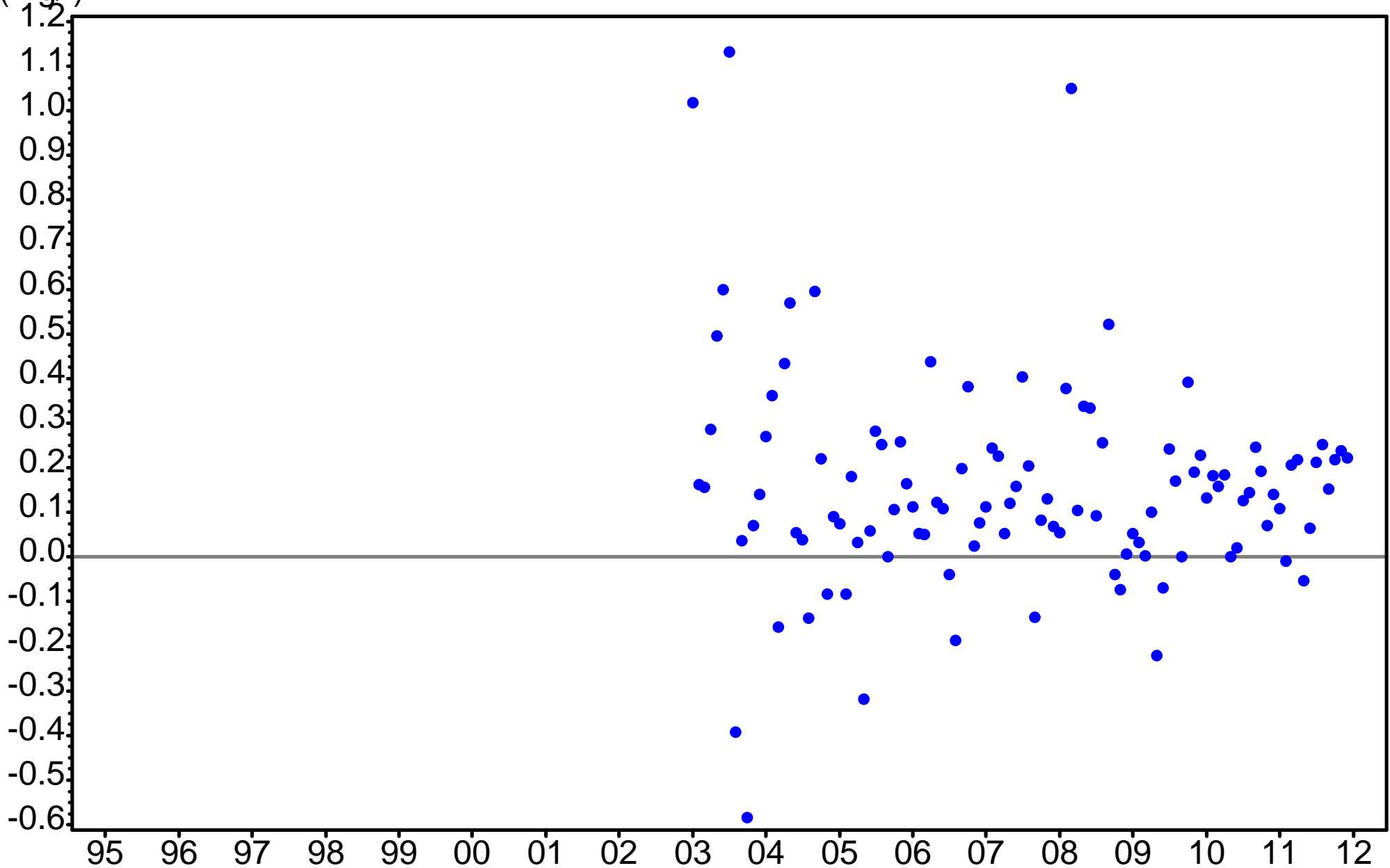
East Wall Trends Appendix - Display 657
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21759	.00512631	0.022997	-0.022429

East Wall Trends Appendix - Display 658

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
East Wall

Adjusted
(mg/l)

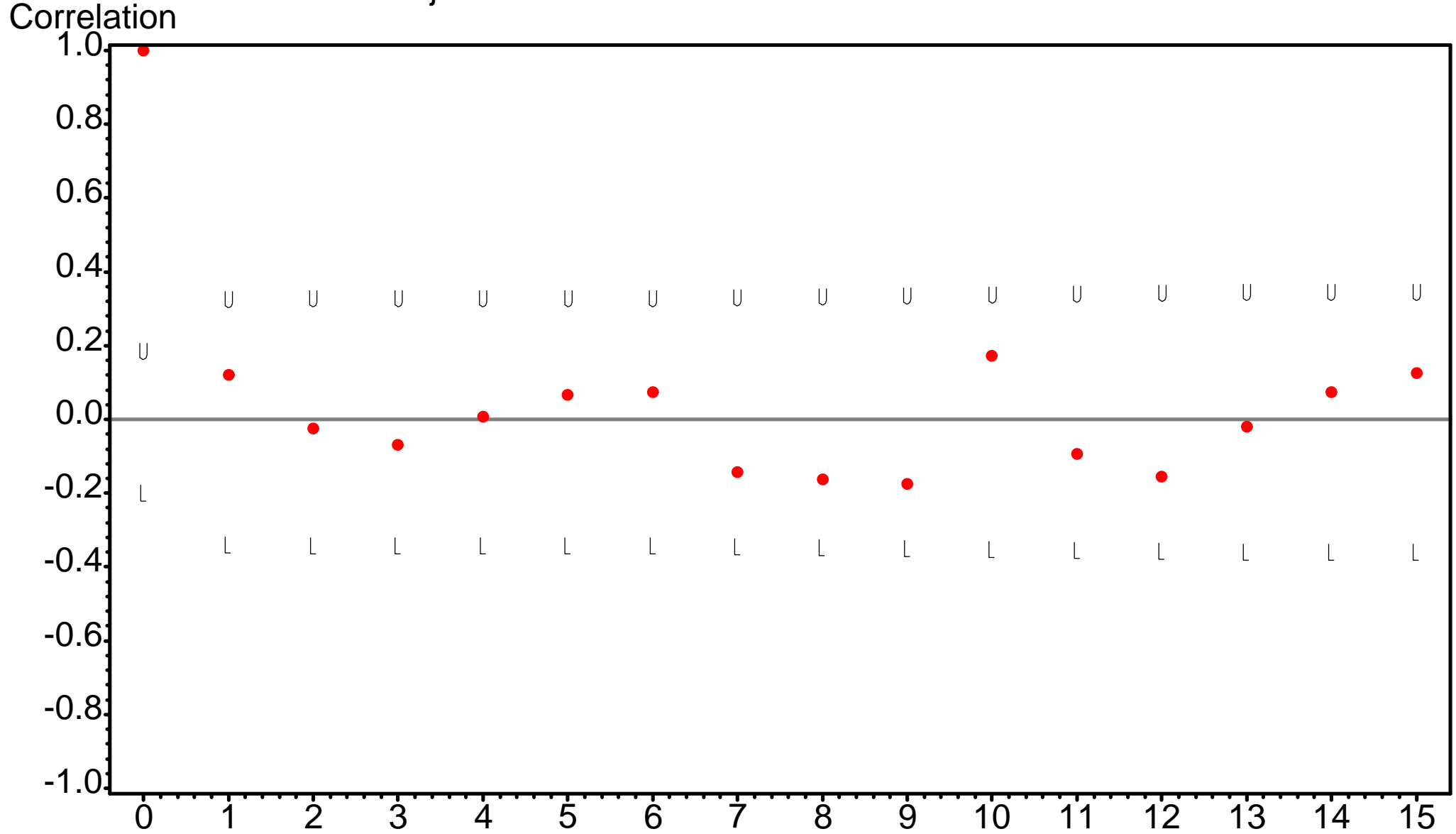


Zero Reference Line Shown

East Wall Trends Appendix - Display 659
Autocorrelation Statistics for Surface Total Nitrogen in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.121	0.167	0.333	-0.333
2	-0.025	0.167	0.335	-0.335
3	-0.070	0.168	0.335	-0.335
4	0.007	0.168	0.336	-0.336
5	0.067	0.168	0.336	-0.336
6	0.073	0.168	0.336	-0.336
7	-0.143	0.168	0.337	-0.337
8	-0.162	0.169	0.339	-0.339
9	-0.175	0.171	0.342	-0.342
10	0.173	0.173	0.345	-0.345
11	-0.094	0.174	0.348	-0.348
12	-0.155	0.175	0.349	-0.349
13	-0.020	0.176	0.352	-0.352
14	0.075	0.176	0.352	-0.352
15	0.126	0.176	0.352	-0.352

East Wall Trends Appendix - Display 660
Correlogram for Surface Total Nitrogen in East Wall
Adjusted for Seasonal Median and Detrended

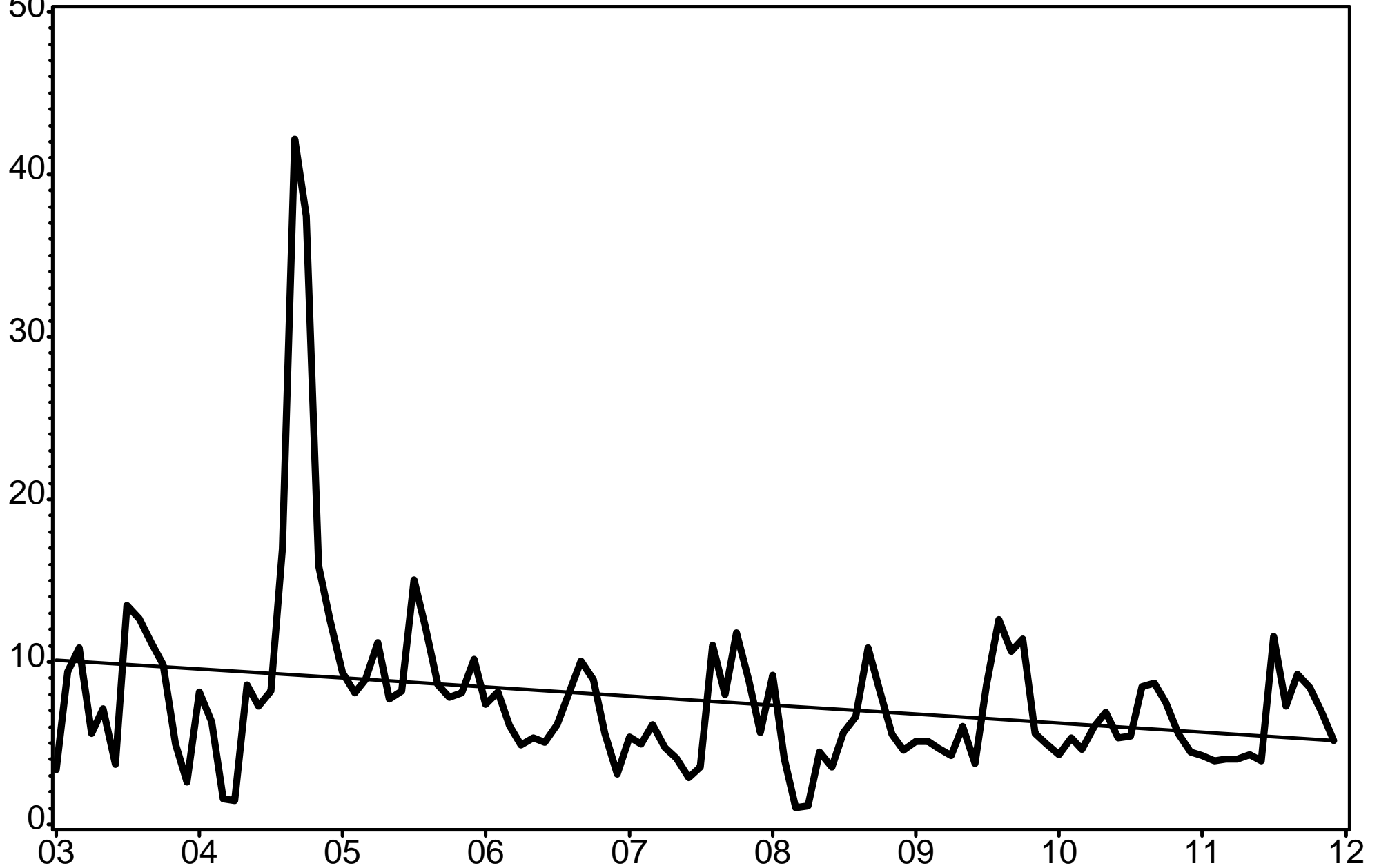


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 661

Monthly Data Time Series
for Surface Total Organic Carbon in East Wall
Not Adjusted for Seasonal Medians

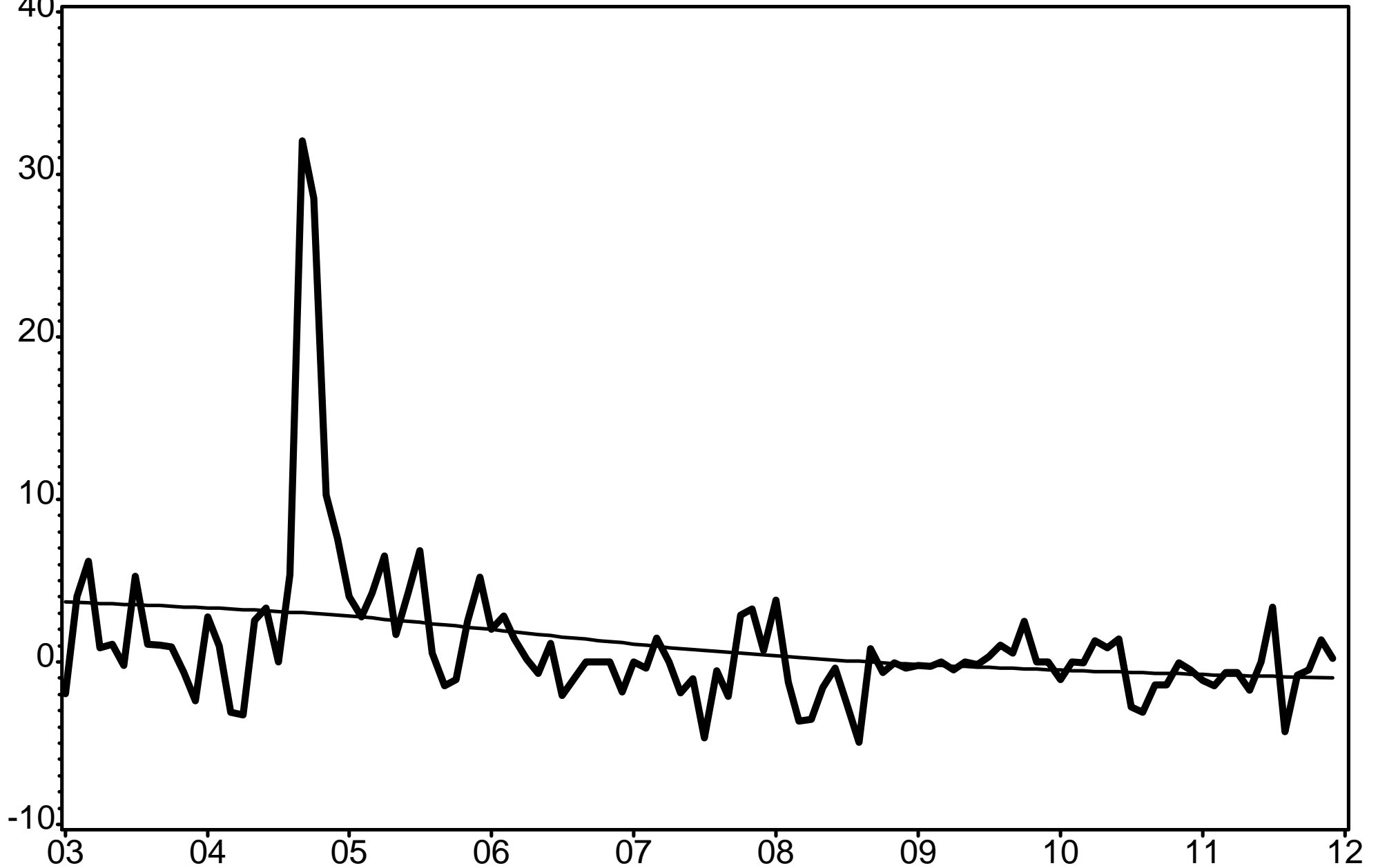
TOC_mgl
(mg/l)



East Wall Trends Appendix - Display 662

Monthly Data Time Series
for Surface Total Organic Carbon in East Wall
Adjusted for Seasonal Medians

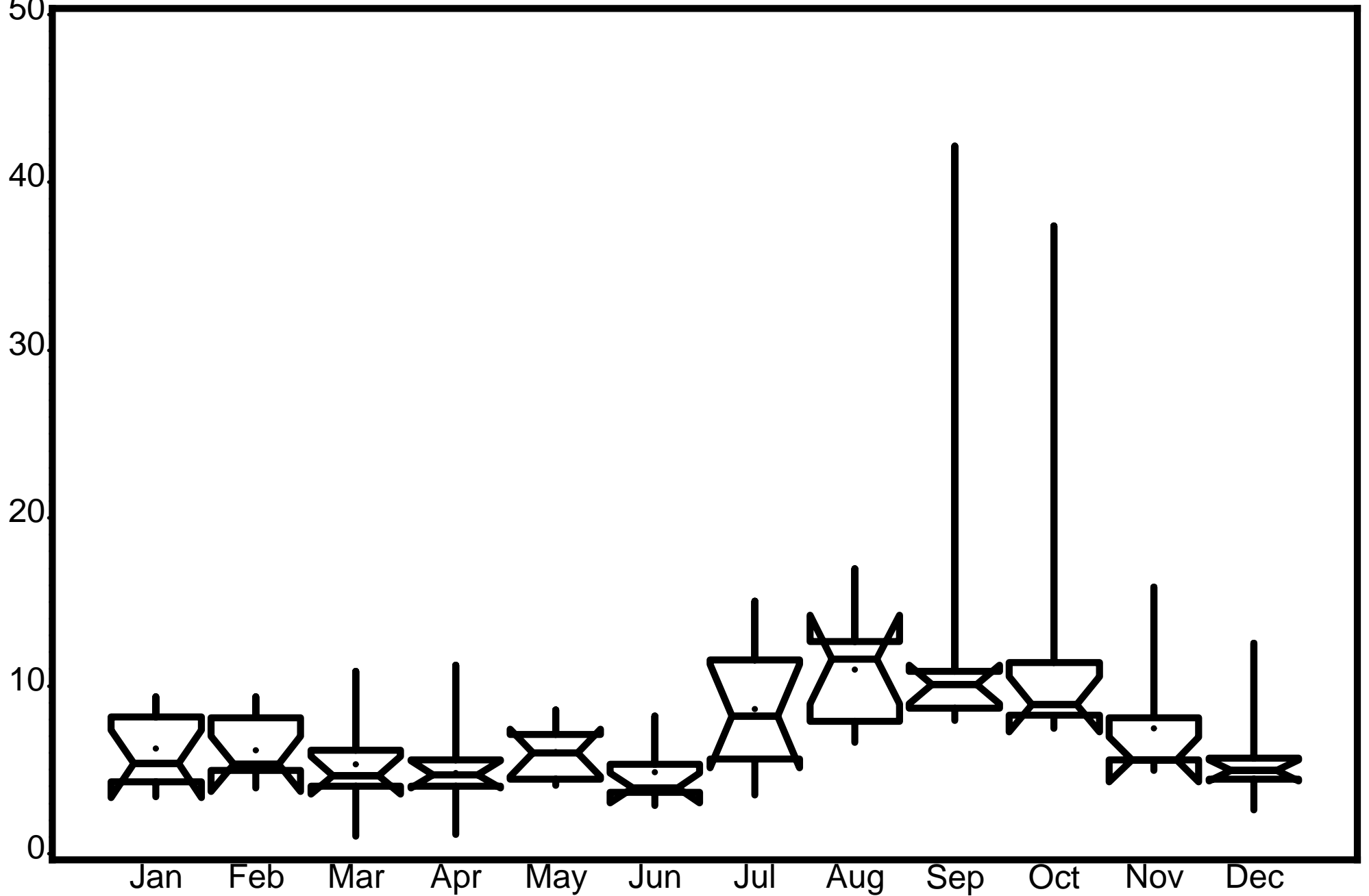
Adjusted
TOC_mgl
(mg/l)



East Wall Trends Appendix - Display 663

Seasonal Univariate Statistics
for Surface Total Organic Carbon in East Wall

TOC_mgl
(mg/l)
50



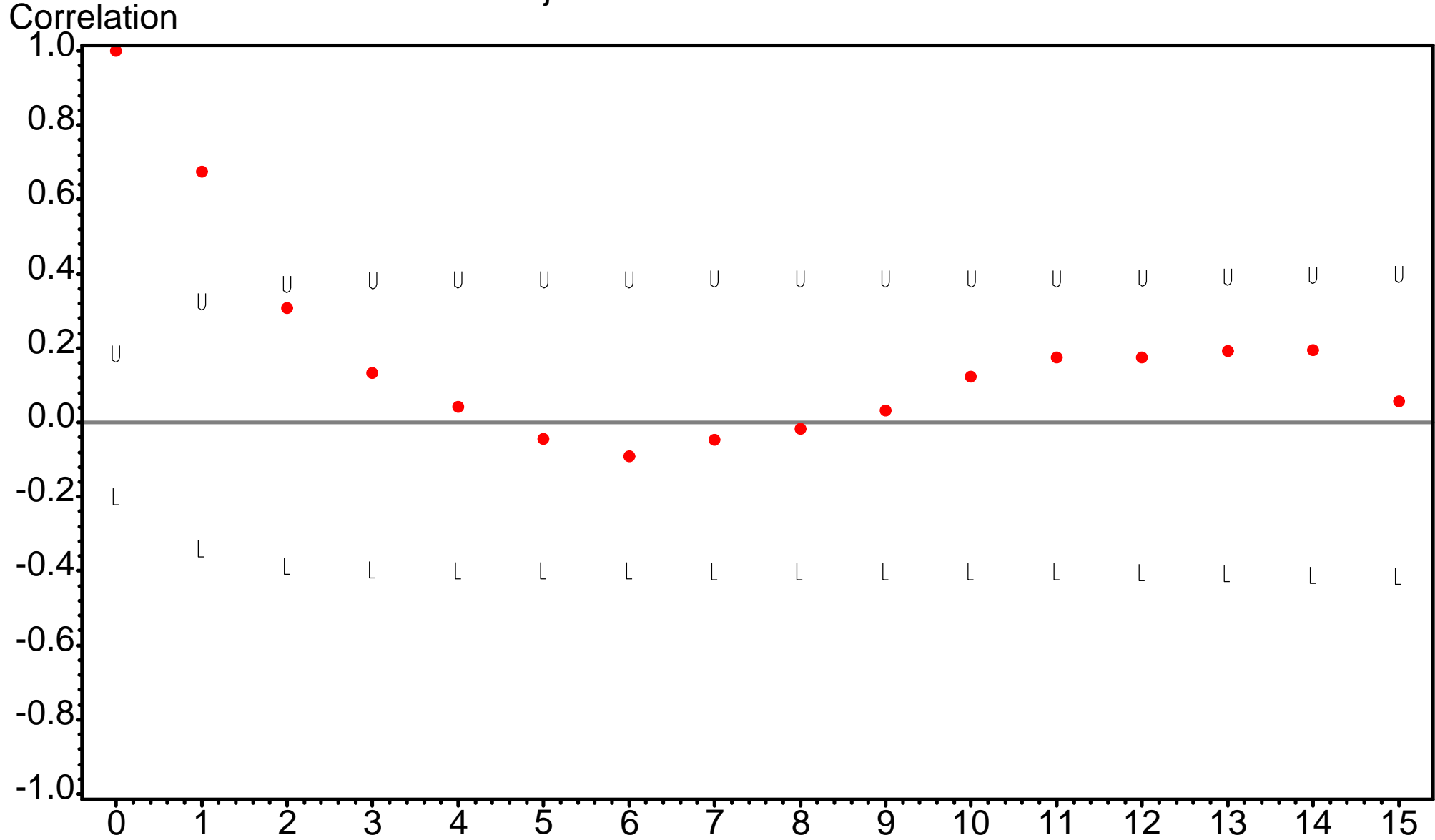
East Wall Trends Appendix - Display 664
Autocorrelation Statistics for Surface Total Organic Carbon in East Wall

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.674	0.167	0.333	-0.333
2	0.309	0.190	0.380	-0.380
3	0.134	0.195	0.390	-0.390
4	0.043	0.196	0.391	-0.391
5	-0.044	0.196	0.392	-0.392
6	-0.092	0.196	0.392	-0.392
7	-0.047	0.196	0.393	-0.393
8	-0.016	0.196	0.393	-0.393
9	0.032	0.196	0.393	-0.393
10	0.124	0.196	0.393	-0.393
11	0.175	0.197	0.394	-0.394
12	0.175	0.199	0.397	-0.397
13	0.192	0.200	0.400	-0.400
14	0.195	0.202	0.403	-0.403
15	0.057	0.203	0.407	-0.407

East Wall Trends Appendix - Display 665

Correlogram for Surface Total Organic Carbon in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 666
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in East Wall
Unadjusted for Seasonal Medians

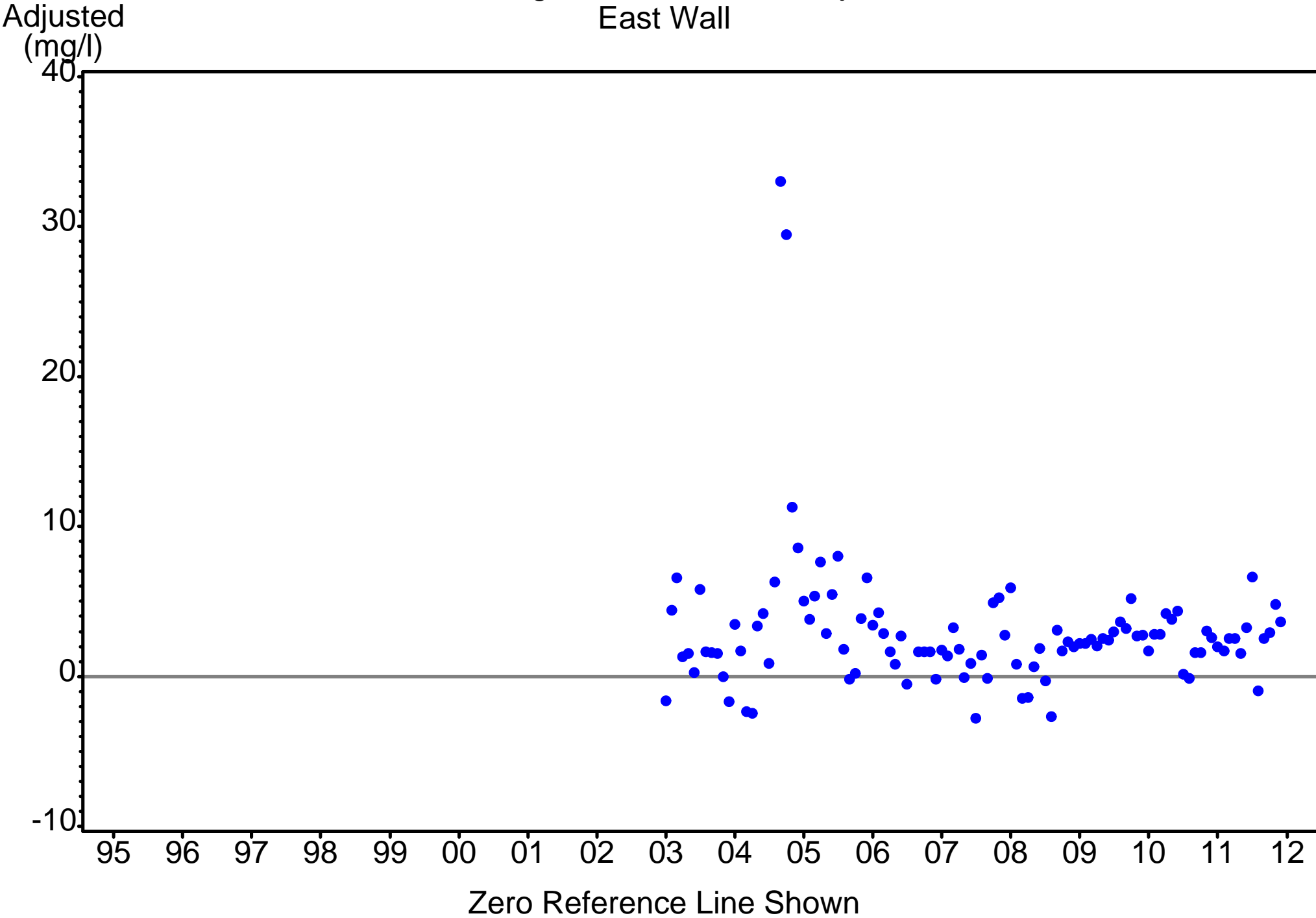
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.193	.003	.003	-0.363

East Wall Trends Appendix - Display 667
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.28302	.000288603	0.032873	-0.34667

East Wall Trends Appendix - Display 668

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted East Wall

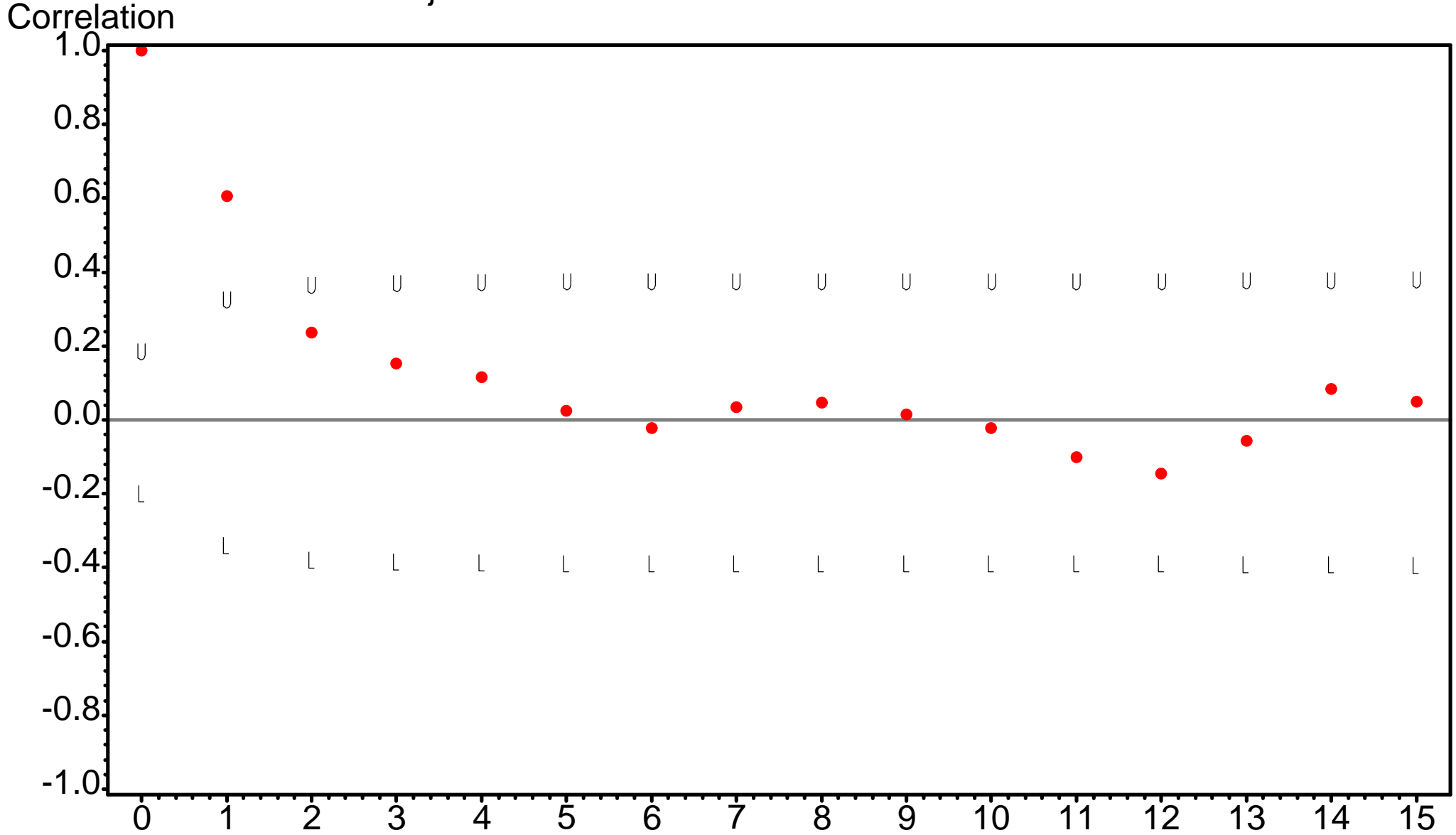


East Wall Trends Appendix - Display 669
Autocorrelation Statistics for Surface Total Organic Carbon in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.606	0.167	0.333	-0.333
2	0.236	0.186	0.372	-0.372
3	0.153	0.189	0.377	-0.377
4	0.116	0.190	0.380	-0.380
5	0.024	0.191	0.381	-0.381
6	-0.021	0.191	0.381	-0.381
7	0.034	0.191	0.381	-0.381
8	0.046	0.191	0.381	-0.381
9	0.015	0.191	0.381	-0.381
10	-0.021	0.191	0.381	-0.381
11	-0.101	0.191	0.381	-0.381
12	-0.145	0.191	0.382	-0.382
13	-0.056	0.192	0.385	-0.385
14	0.084	0.192	0.385	-0.385
15	0.049	0.193	0.386	-0.386

East Wall Trends Appendix - Display 670

Correlogram for Surface Total Organic Carbon in East Wall Adjusted for Seasonal Median and Detrended



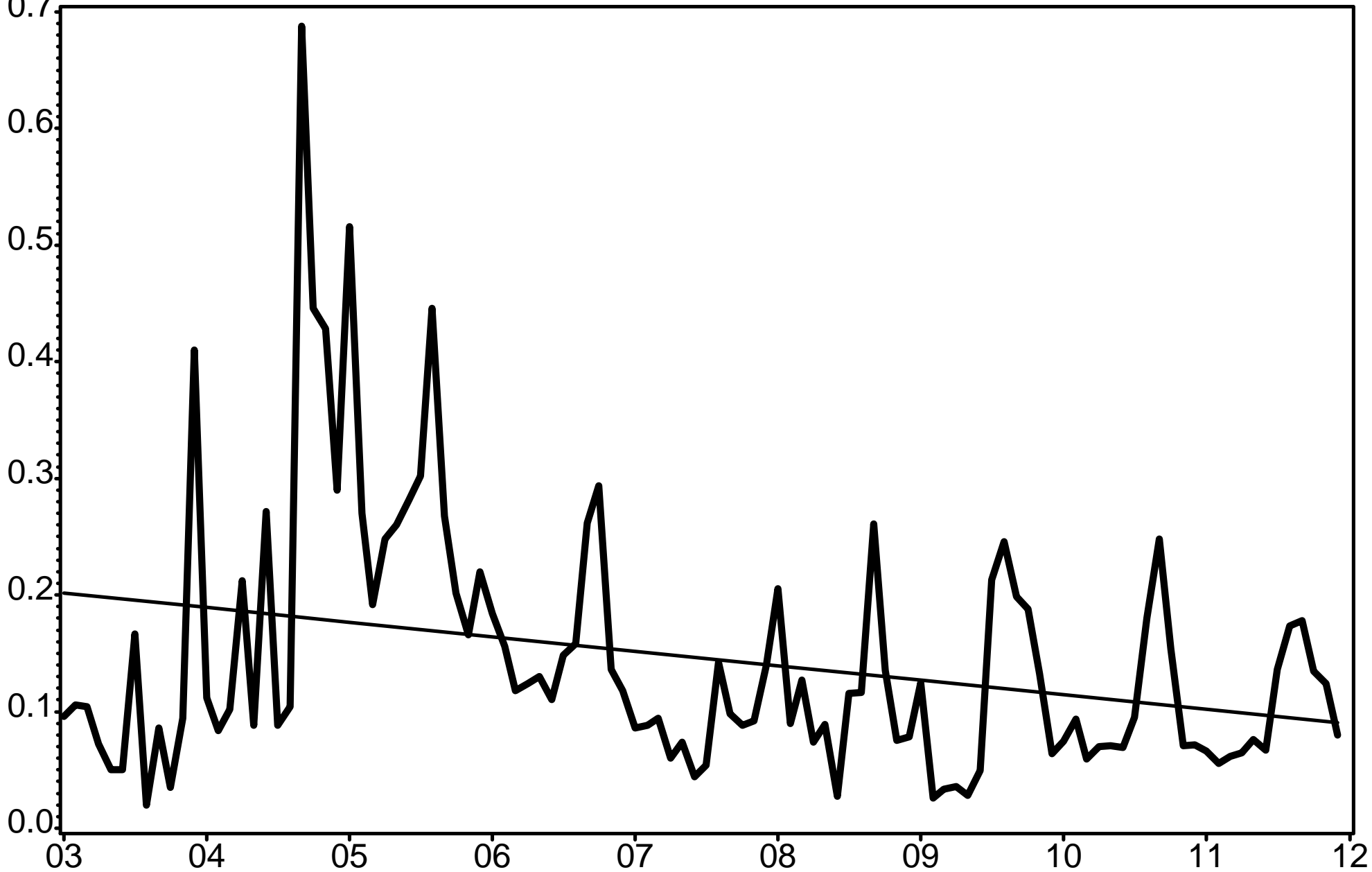
Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 671

Monthly Data Time Series
for Surface Total Phosphorous in East Wall
Not Adjusted for Seasonal Medians

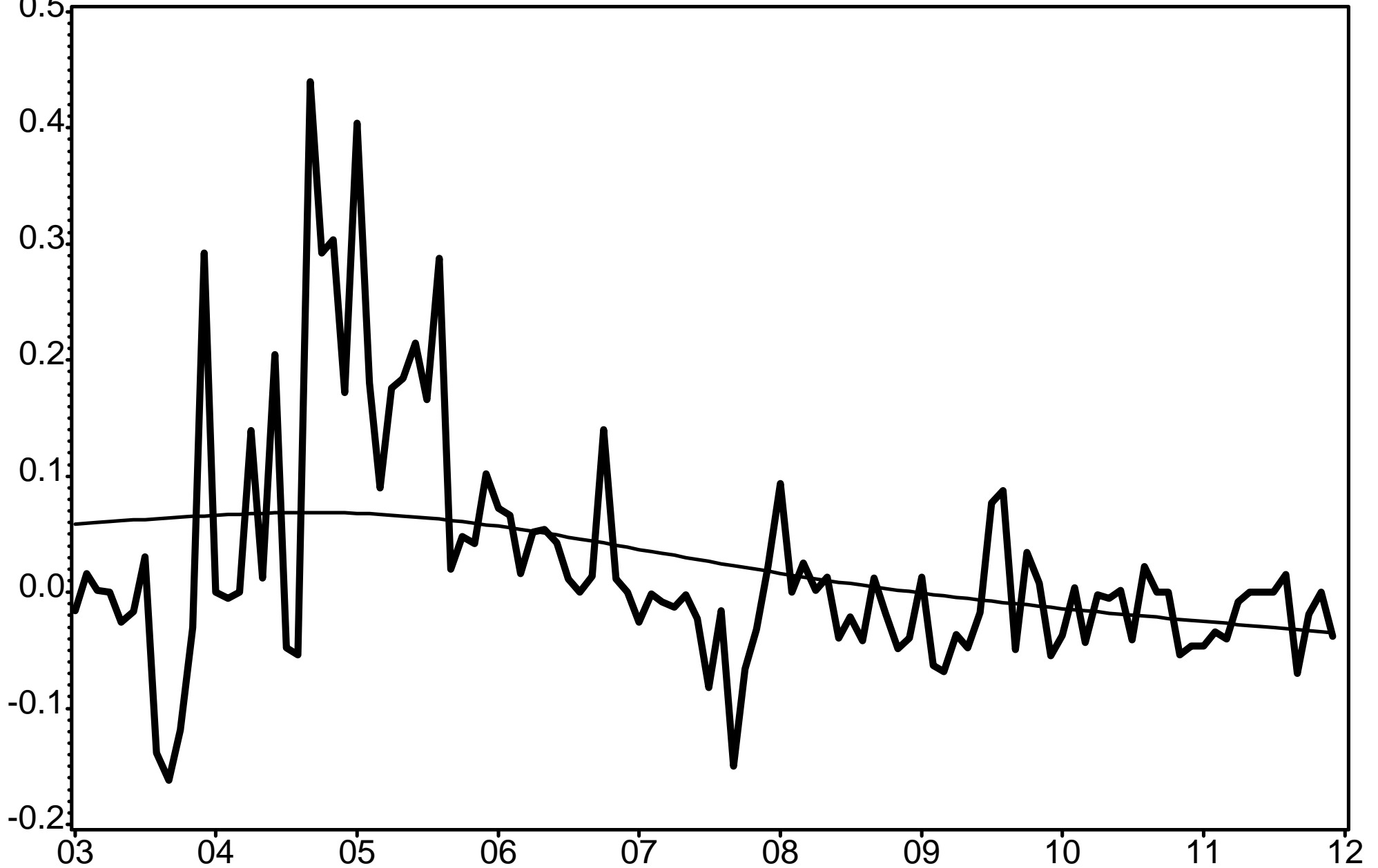
TP_mgl
(mg/l)



East Wall Trends Appendix - Display 672

Monthly Data Time Series
for Surface Total Phosphorous in East Wall
Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

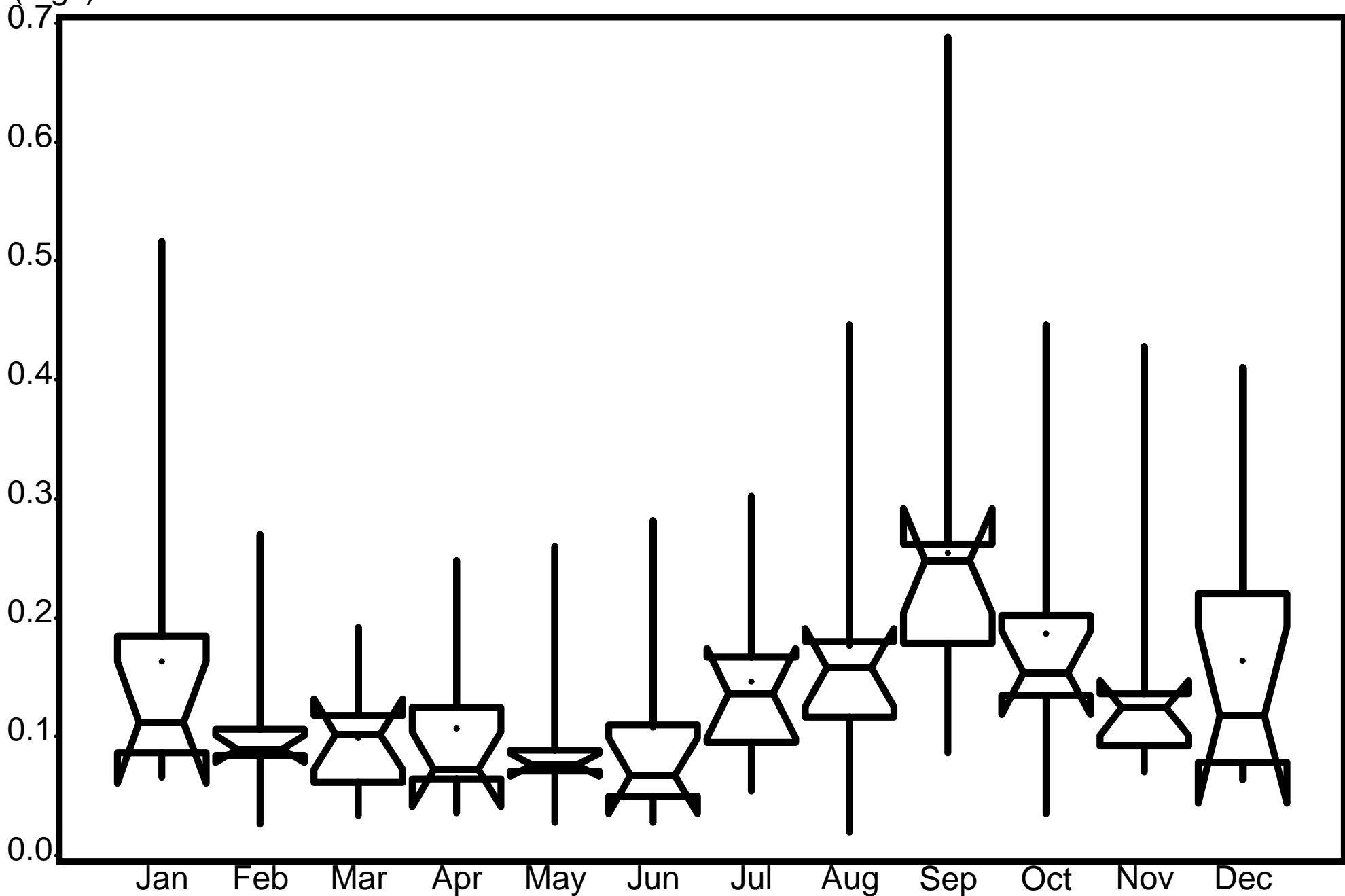


East Wall Trends Appendix - Display 673

Seasonal Univariate Statistics

for Surface Total Phosphorous in East Wall

TP_mgl
(mg/l)



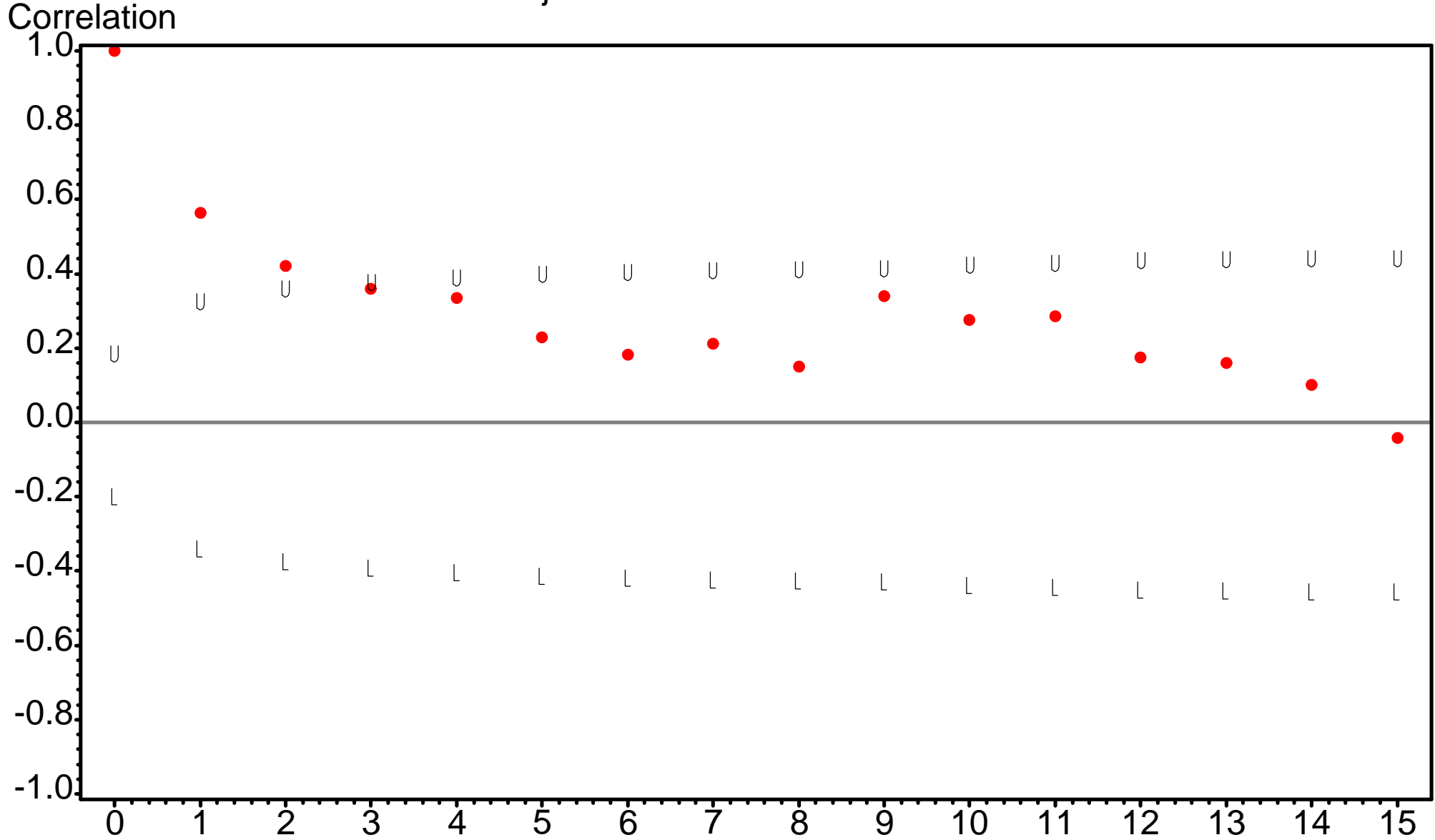
East Wall Trends Appendix - Display 674
Autocorrelation Statistics for Surface Total Phosphorous in East Wall

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.563	0.167	0.333	-0.333
2	0.421	0.183	0.367	-0.367
3	0.360	0.192	0.384	-0.384
4	0.334	0.198	0.397	-0.397
5	0.230	0.203	0.407	-0.407
6	0.183	0.206	0.412	-0.412
7	0.211	0.207	0.415	-0.415
8	0.149	0.209	0.419	-0.419
9	0.339	0.210	0.421	-0.421
10	0.276	0.215	0.431	-0.431
11	0.285	0.219	0.437	-0.437
12	0.174	0.222	0.444	-0.444
13	0.159	0.223	0.446	-0.446
14	0.101	0.224	0.448	-0.448
15	-0.041	0.225	0.449	-0.449

East Wall Trends Appendix - Display 675

Correlogram for Surface Total Phosphorous in East Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 676
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19	.004	.004	-.007

East Wall Trends Appendix - Display 677
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in East Wall
Adjusted for Seasonal Medians

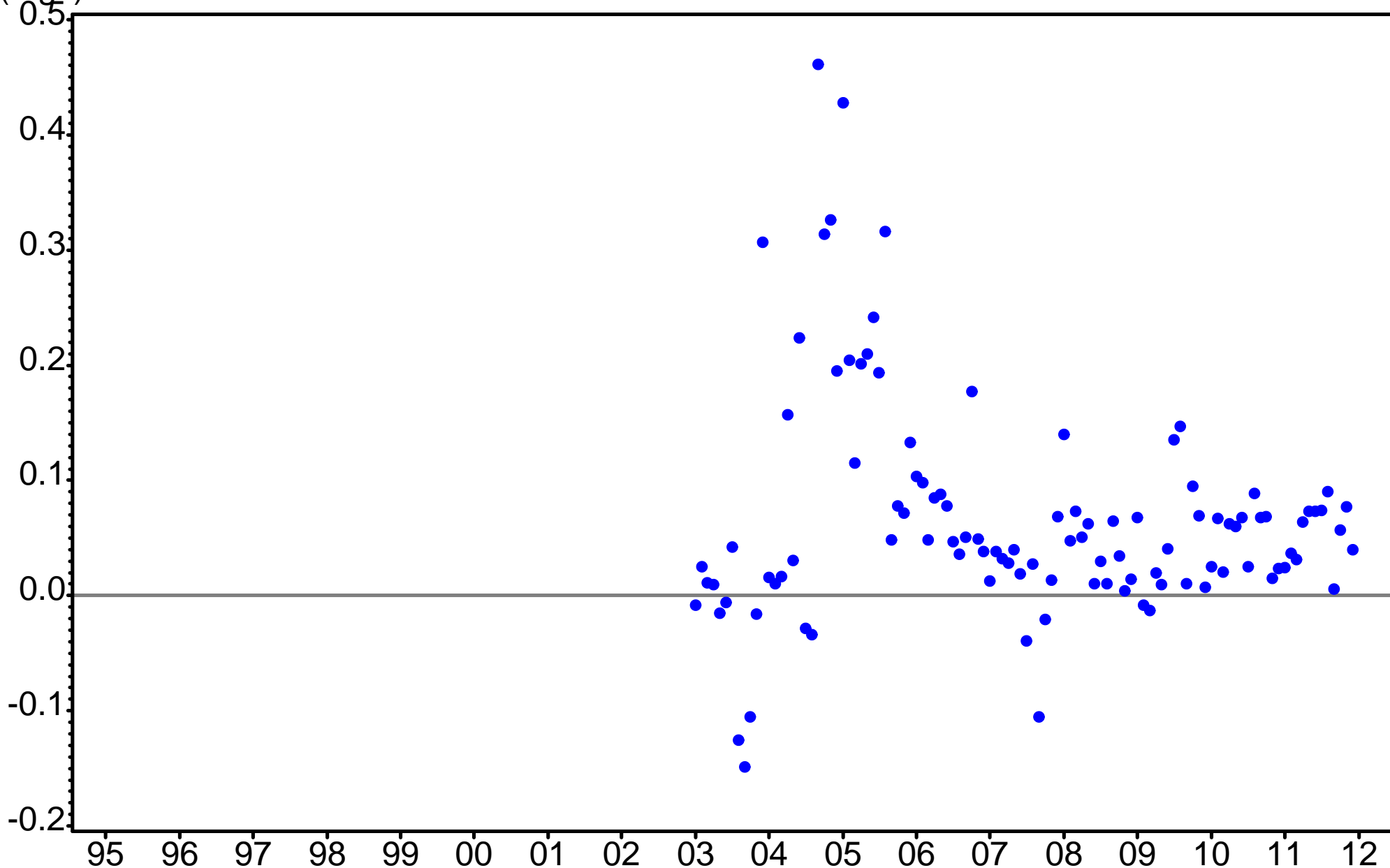
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.27083	.000478222	0.11715	-.0078

East Wall Trends Appendix - Display 678

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended

Adjusted
(mg/l)

East Wall



Zero Reference Line Shown

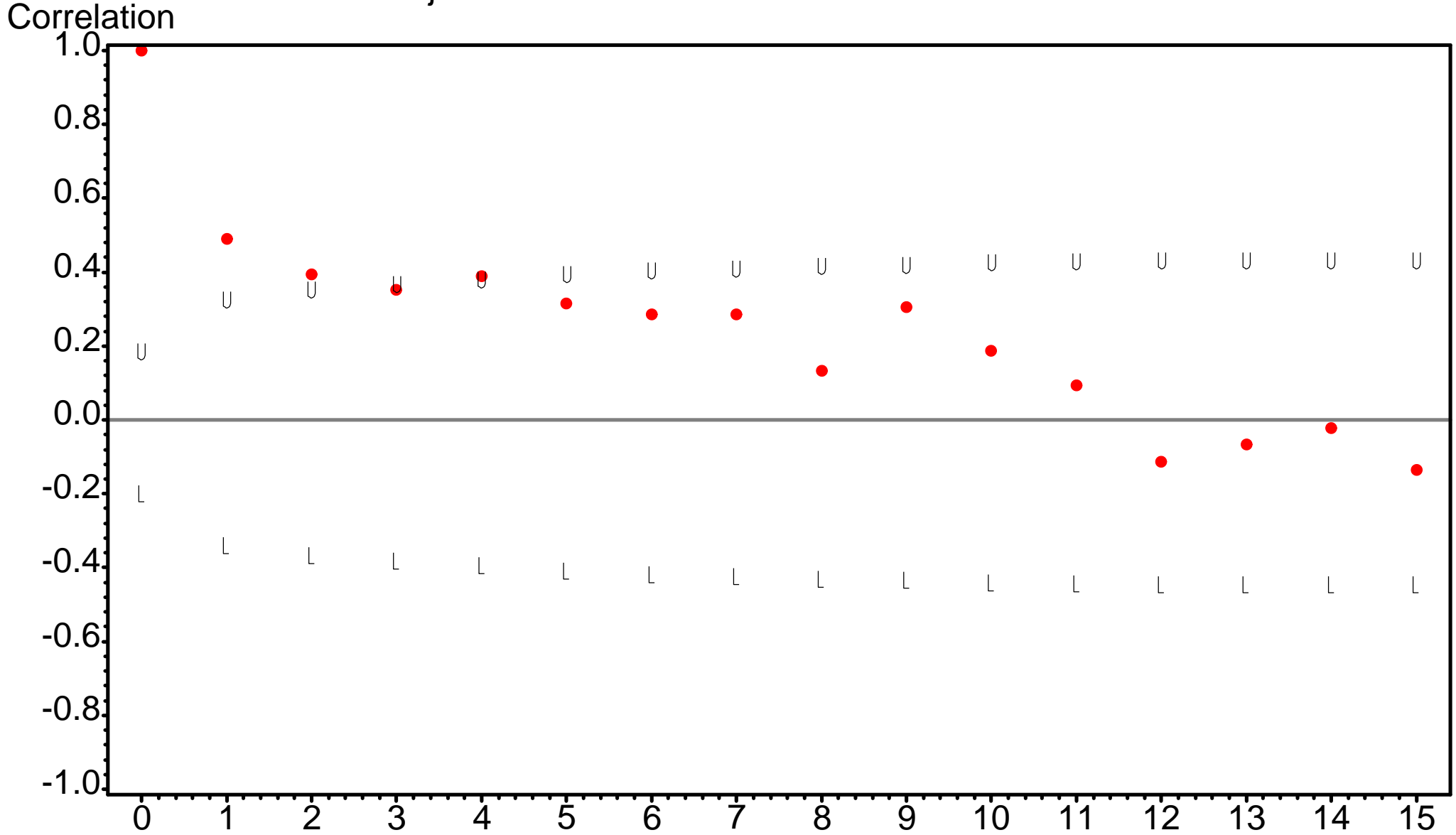
East Wall Trends Appendix - Display 679
Autocorrelation Statistics for Surface Total Phosphorous in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.490	0.167	0.333	-0.333
2	0.393	0.179	0.359	-0.359
3	0.353	0.187	0.375	-0.375
4	0.389	0.193	0.387	-0.387
5	0.315	0.200	0.401	-0.401
6	0.285	0.205	0.410	-0.410
7	0.285	0.209	0.417	-0.417
8	0.134	0.212	0.424	-0.424
9	0.305	0.213	0.426	-0.426
10	0.187	0.217	0.434	-0.434
11	0.094	0.218	0.437	-0.437
12	-0.112	0.219	0.438	-0.438
13	-0.067	0.219	0.439	-0.439
14	-0.021	0.220	0.439	-0.439
15	-0.136	0.220	0.439	-0.439

East Wall Trends Appendix - Display 680

Correlogram for Surface Total Phosphorous in East Wall

Adjusted for Seasonal Median and Detrended

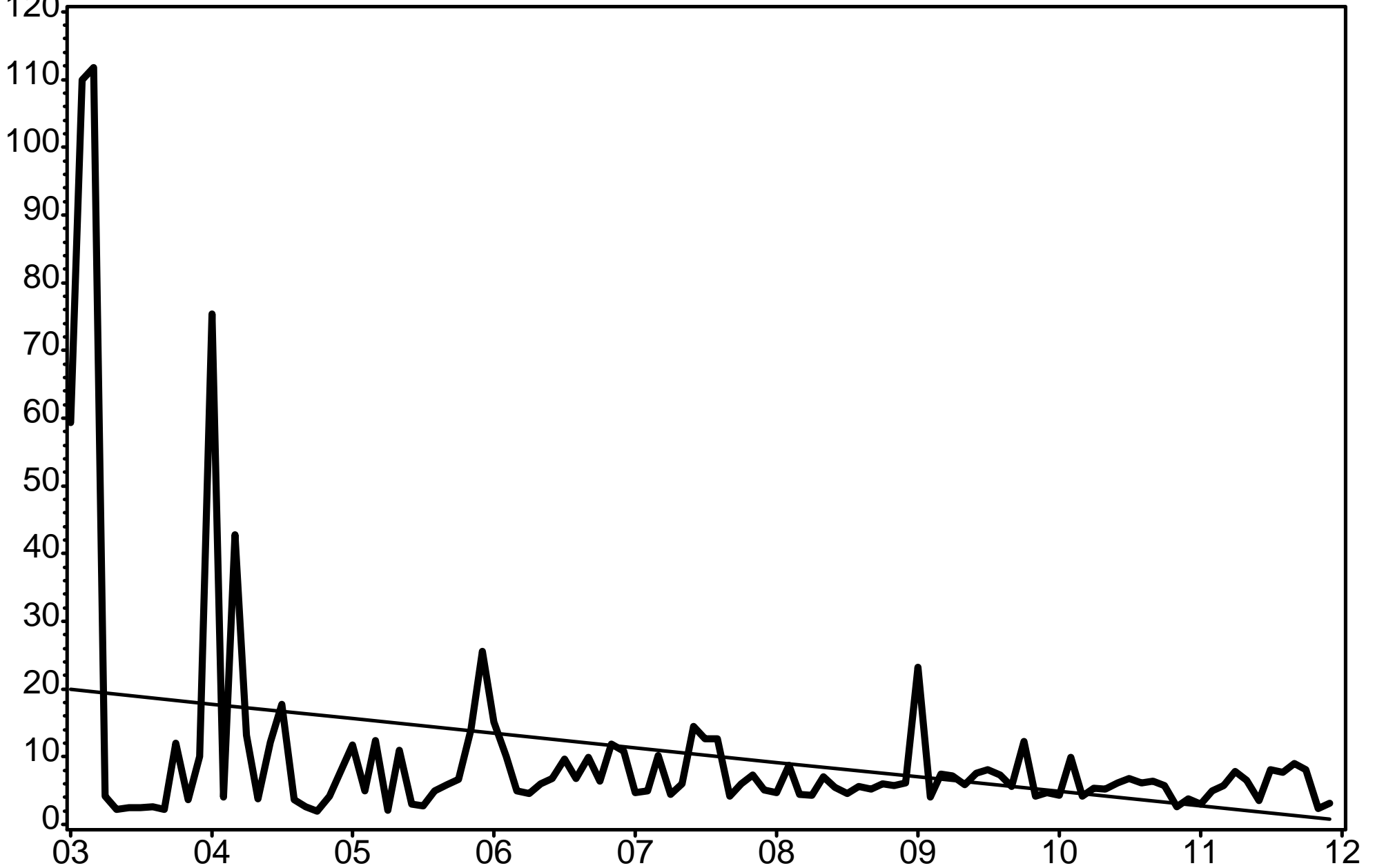


Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 681
Monthly Data Time Series
for Surface Total Suspended Solids in East Wall
Not Adjusted for Seasonal Medians

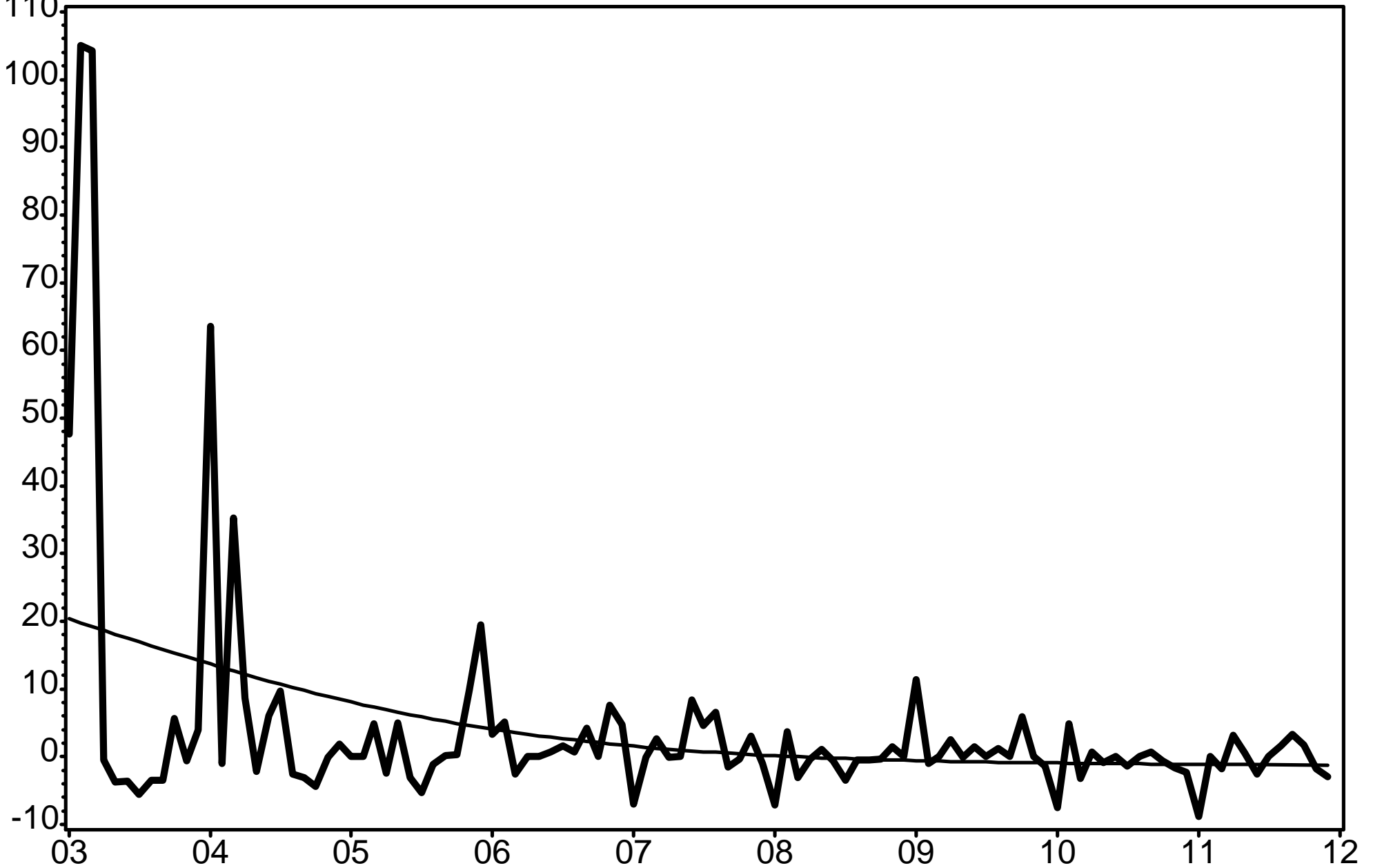
TSS_mgl
(mg/l)



East Wall Trends Appendix - Display 682

Monthly Data Time Series
for Surface Total Suspended Solids in East Wall
Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

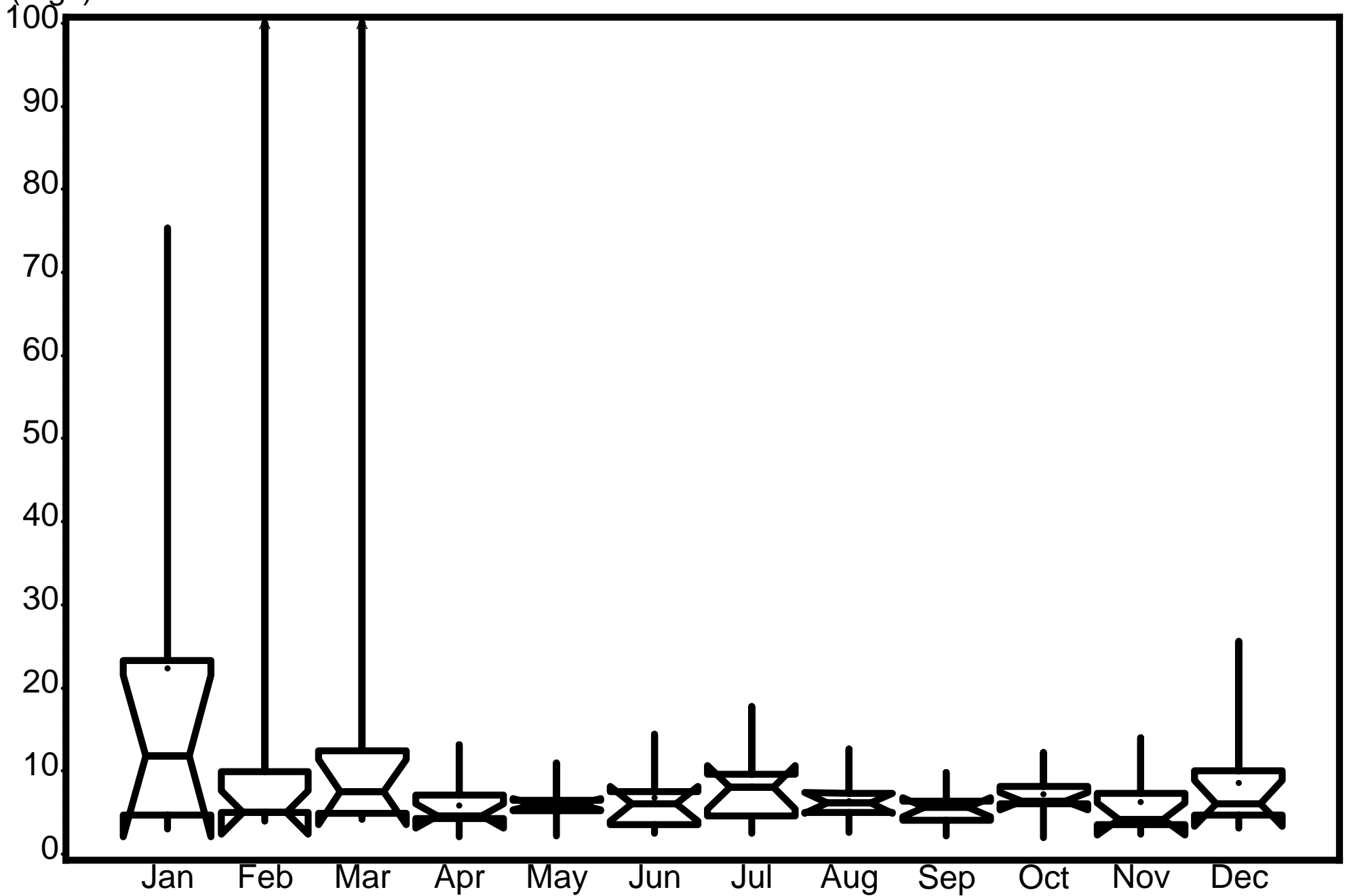


East Wall Trends Appendix - Display 683

Seasonal Univariate Statistics

for Surface Total Suspended Solids in East Wall

TSS_mgl
(mg/l)



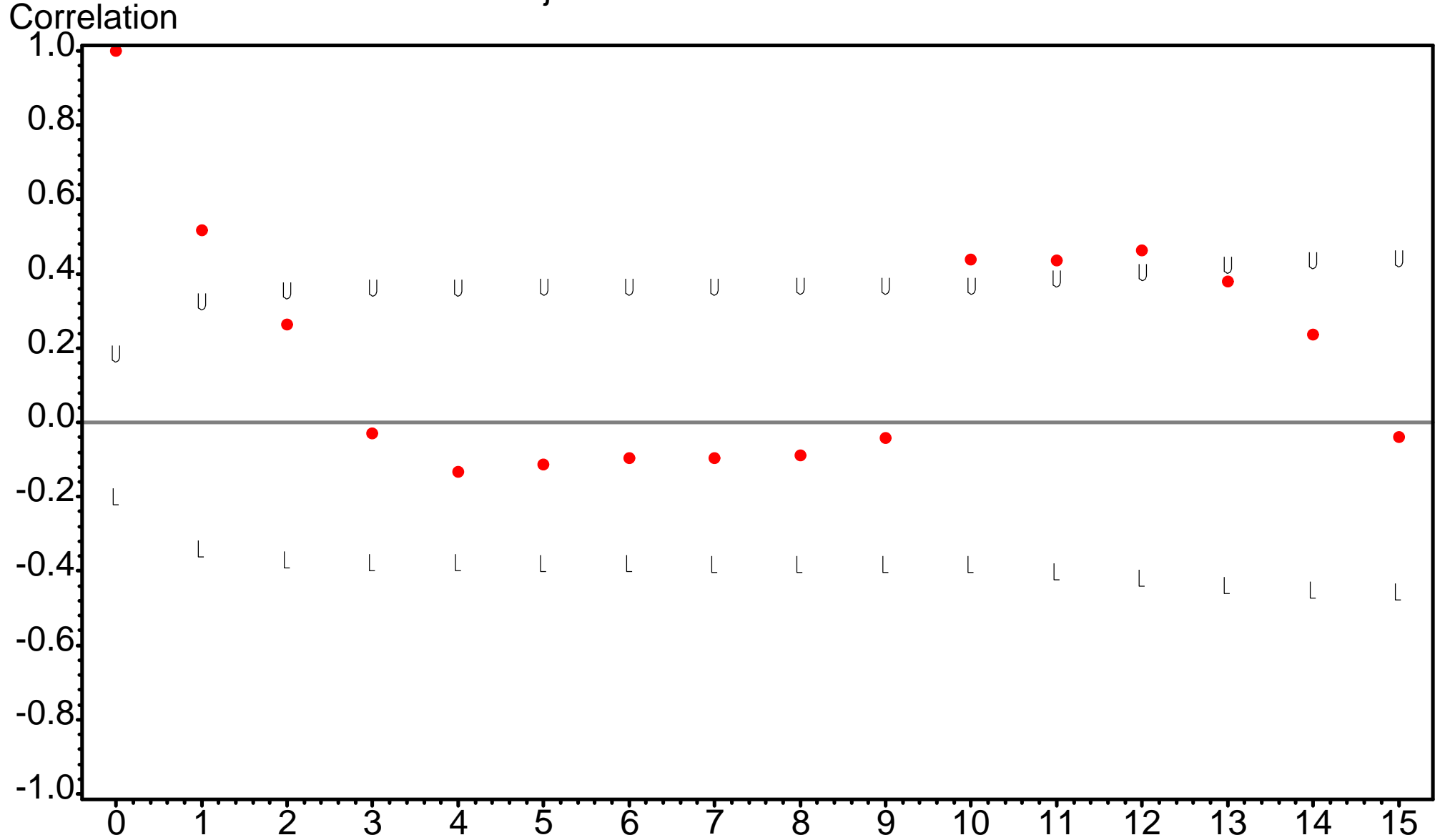
East Wall Trends Appendix - Display 684
Autocorrelation Statistics for Surface Total Suspended Solids in East Wall

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.518	0.167	0.333	-0.333
2	0.264	0.181	0.362	-0.362
3	-0.029	0.185	0.369	-0.369
4	-0.134	0.185	0.369	-0.369
5	-0.112	0.185	0.371	-0.371
6	-0.096	0.186	0.372	-0.372
7	-0.096	0.187	0.373	-0.373
8	-0.088	0.187	0.374	-0.374
9	-0.041	0.187	0.375	-0.375
10	0.438	0.187	0.375	-0.375
11	0.436	0.197	0.393	-0.393
12	0.463	0.205	0.411	-0.411
13	0.380	0.215	0.430	-0.430
14	0.237	0.221	0.442	-0.442
15	-0.039	0.223	0.447	-0.447

East Wall Trends Appendix - Display 685

Correlogram for Surface Total Suspended Solids in East Wall

Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 686
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in East Wall
Unadjusted for Seasonal Medians

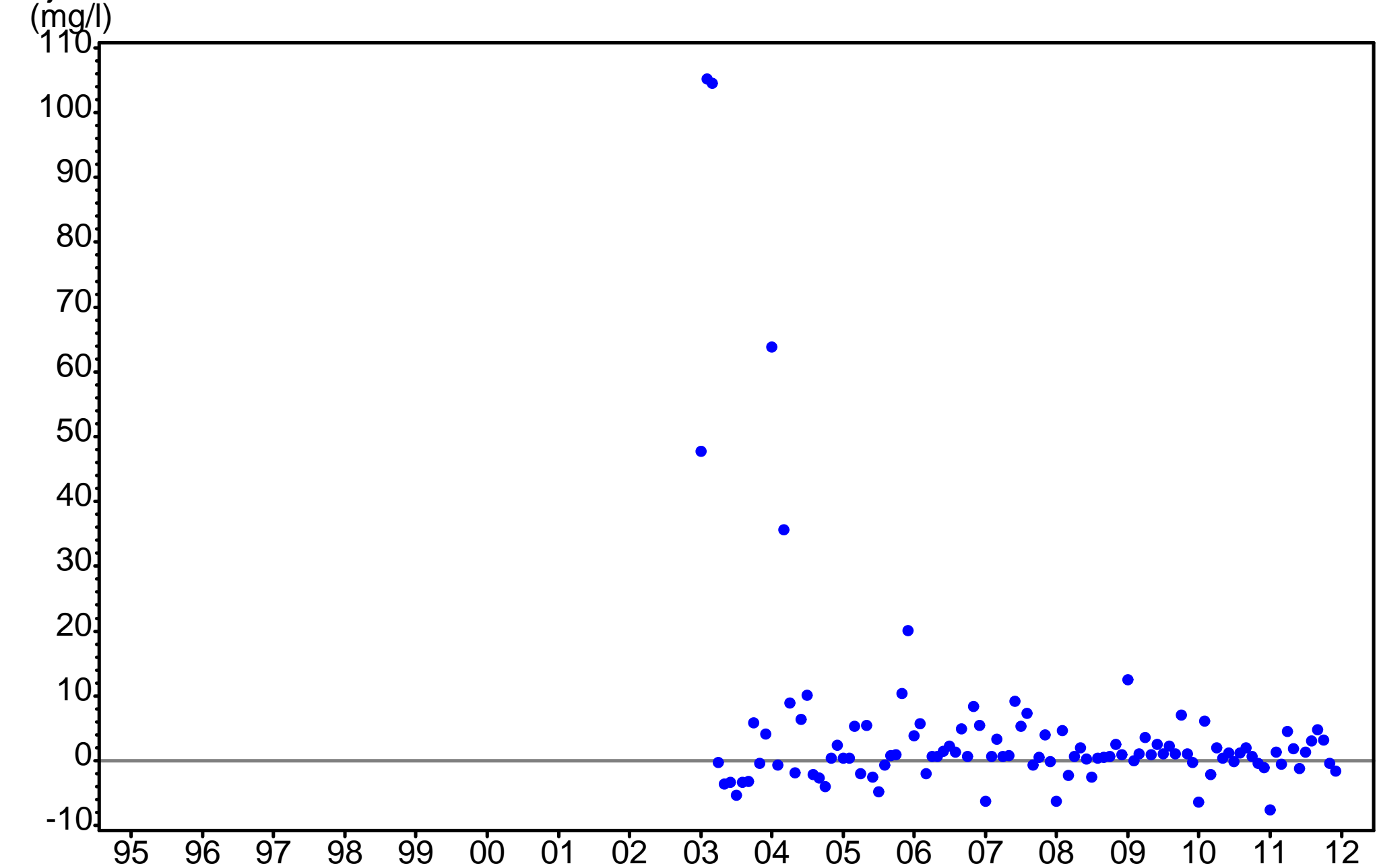
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.05	0.441	0.441	-0.149

East Wall Trends Appendix - Display 687
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.055556	0.4888	0.48455	-0.14225

East Wall Trends Appendix - Display 688

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted East Wall



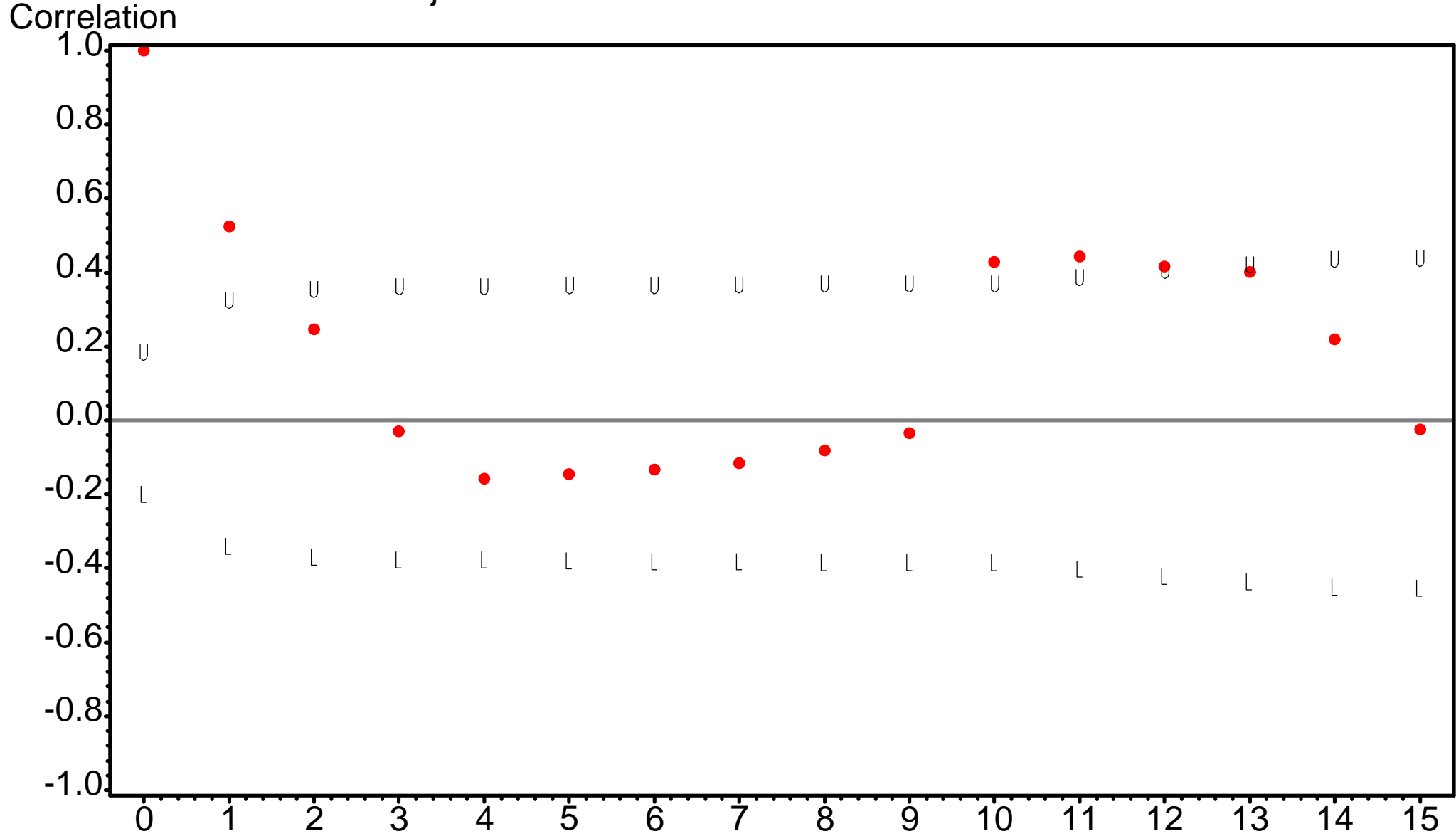
Zero Reference Line Shown

East Wall Trends Appendix - Display 689
Autocorrelation Statistics for Surface Total Suspended Solids in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.525	0.167	0.333	-0.333
2	0.246	0.181	0.363	-0.363
3	-0.029	0.184	0.369	-0.369
4	-0.158	0.184	0.369	-0.369
5	-0.146	0.186	0.371	-0.371
6	-0.134	0.187	0.373	-0.373
7	-0.115	0.188	0.375	-0.375
8	-0.080	0.188	0.377	-0.377
9	-0.035	0.189	0.377	-0.377
10	0.428	0.189	0.377	-0.377
11	0.442	0.197	0.395	-0.395
12	0.416	0.206	0.413	-0.413
13	0.402	0.214	0.428	-0.428
14	0.219	0.221	0.442	-0.442
15	-0.024	0.223	0.446	-0.446

East Wall Trends Appendix - Display 690

Correlogram for Surface Total Suspended Solids in East Wall Adjusted for Seasonal Median and Detrended

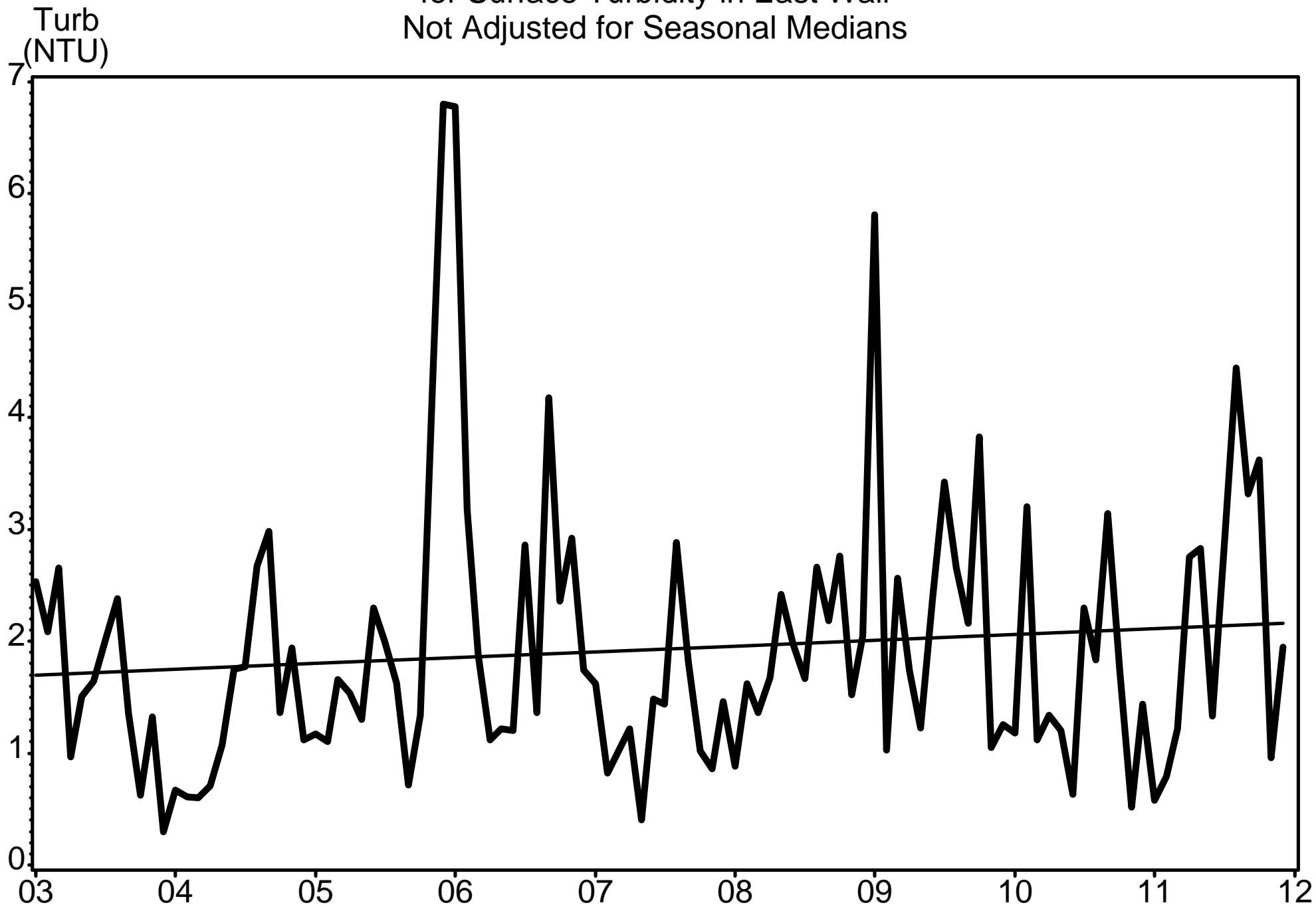


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 691

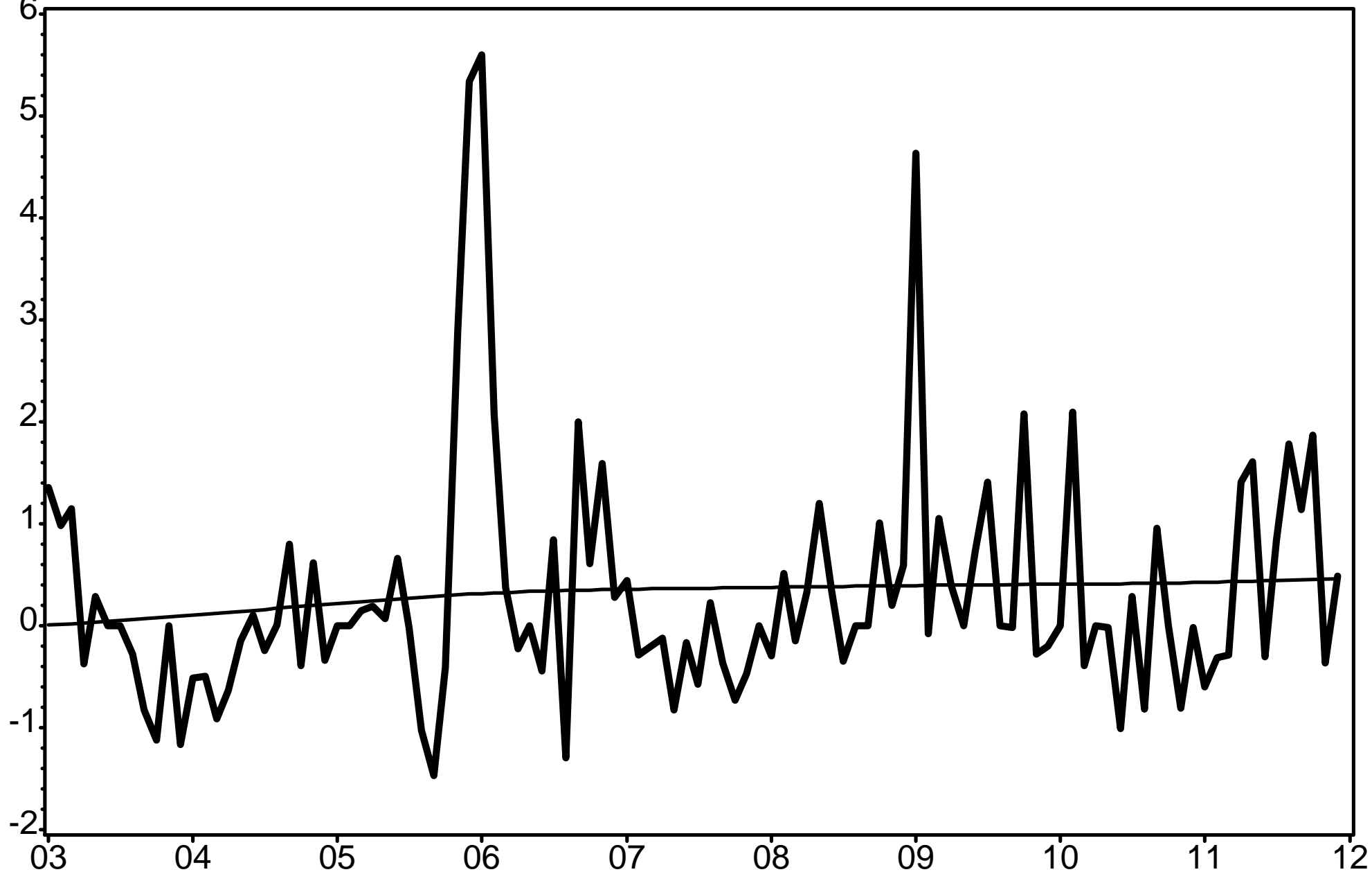
Monthly Data Time Series
for Surface Turbidity in East Wall
Not Adjusted for Seasonal Medians



East Wall Trends Appendix - Display 692

Monthly Data Time Series
for Surface Turbidity in East Wall
Adjusted for Seasonal Medians

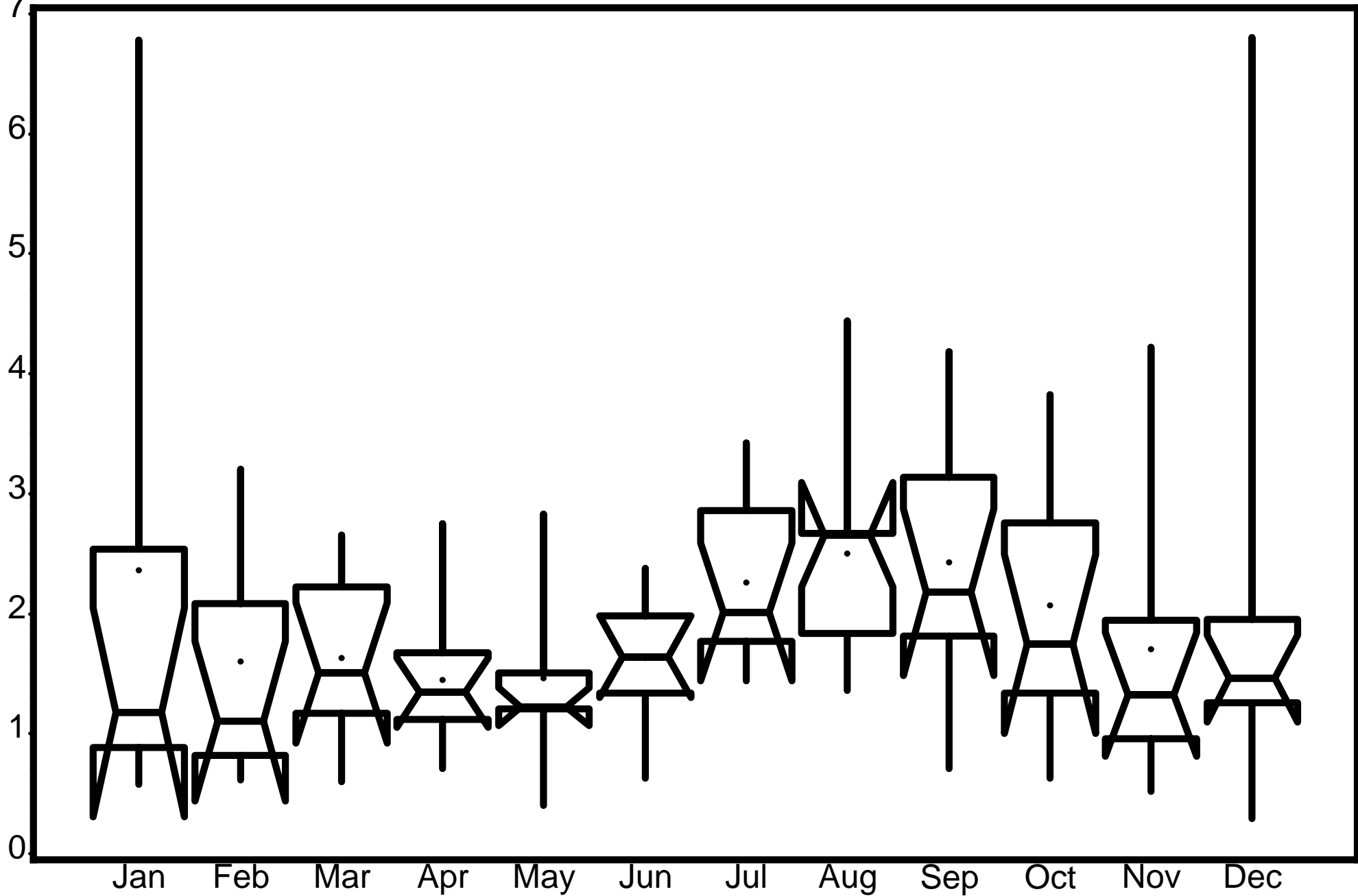
Adjusted
Turb
(NTU)



East Wall Trends Appendix - Display 693

Seasonal Univariate Statistics
for Surface Turbidity in East Wall

Turb
(NTU)

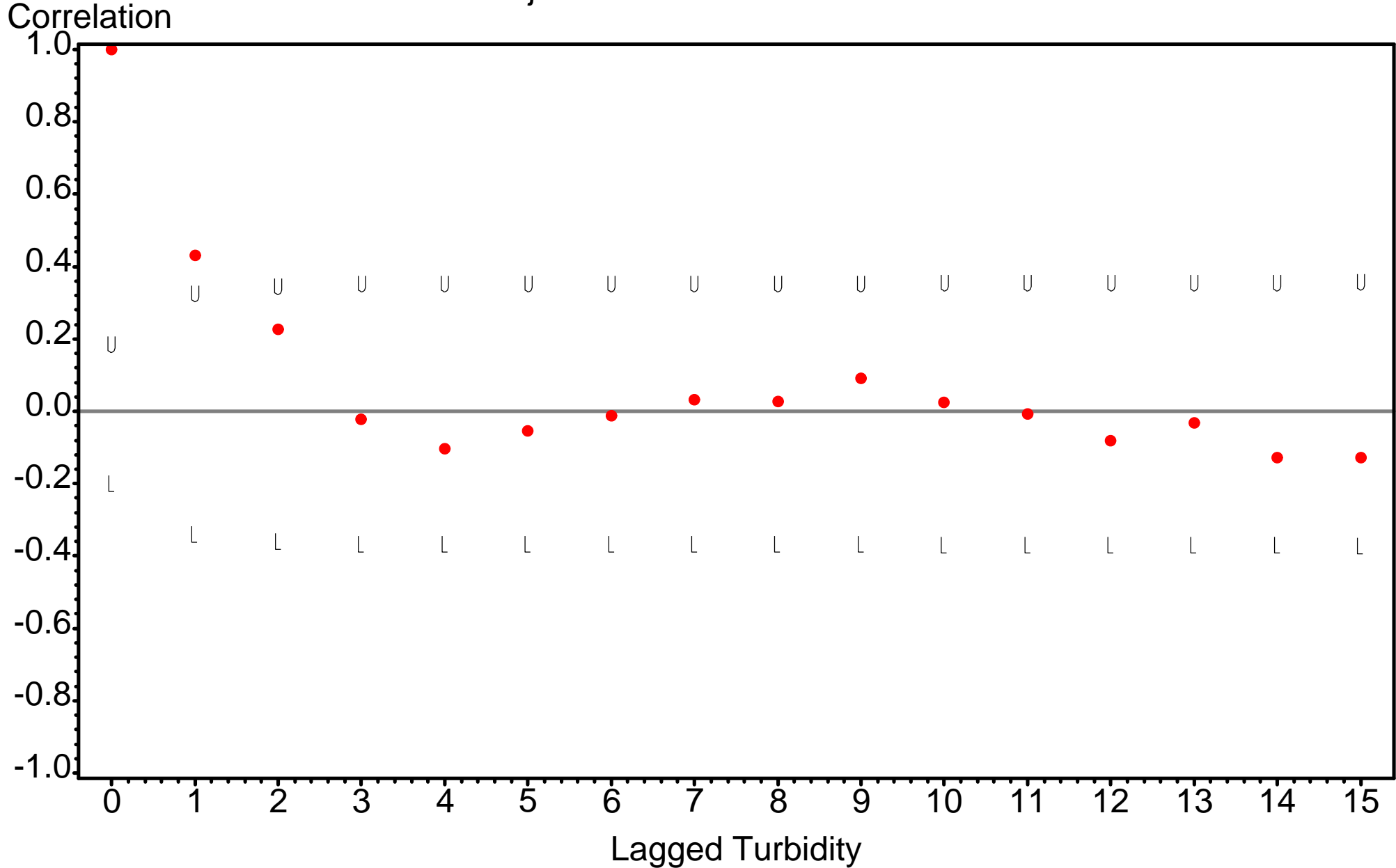


East Wall Trends Appendix - Display 694
Autocorrelation Statistics for Surface Turbidity in East Wall

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.431	0.167	0.333	-0.333
2	0.226	0.177	0.353	-0.353
3	-0.023	0.179	0.359	-0.359
4	-0.103	0.179	0.359	-0.359
5	-0.053	0.180	0.360	-0.360
6	-0.013	0.180	0.360	-0.360
7	0.033	0.180	0.360	-0.360
8	0.028	0.180	0.360	-0.360
9	0.090	0.180	0.360	-0.360
10	0.024	0.181	0.361	-0.361
11	-0.007	0.181	0.361	-0.361
12	-0.082	0.181	0.361	-0.361
13	-0.033	0.181	0.362	-0.362
14	-0.127	0.181	0.362	-0.362
15	-0.129	0.182	0.364	-0.364

East Wall Trends Appendix - Display 695

Correlogram for Surface Turbidity in East Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

East Wall Trends Appendix - Display 696
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in East Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1	0.128	0.128	0.056

East Wall Trends Appendix - Display 697
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in East Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.125	0.11297	0.22199	0.057125

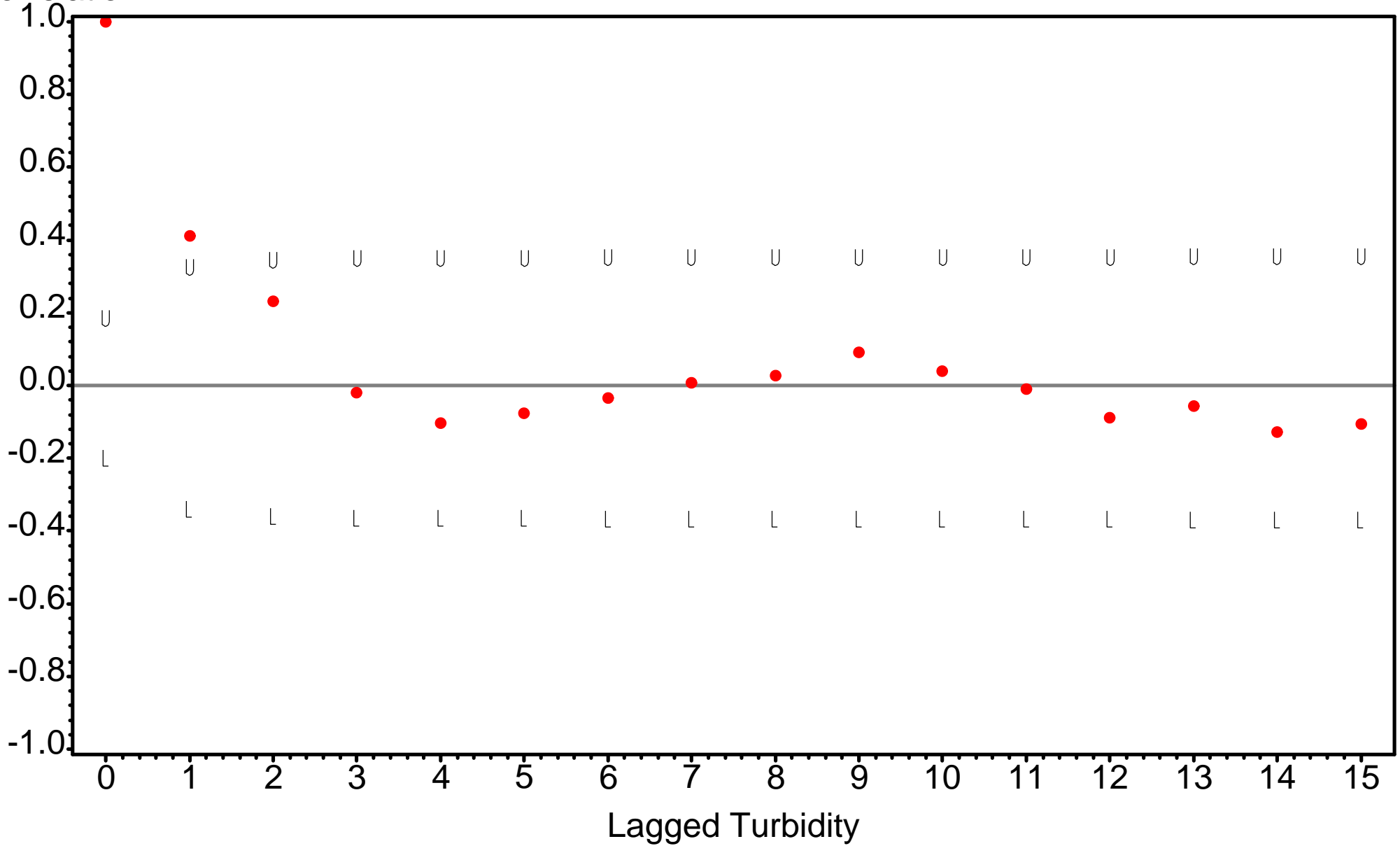
East Wall Trends Appendix - Display 699
Autocorrelation Statistics for Surface Turbidity in East Wall
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.412	0.167	0.333	-0.333
2	0.231	0.176	0.352	-0.352
3	-0.019	0.179	0.357	-0.357
4	-0.103	0.179	0.357	-0.357
5	-0.076	0.179	0.358	-0.358
6	-0.034	0.180	0.359	-0.359
7	0.008	0.180	0.359	-0.359
8	0.026	0.180	0.359	-0.359
9	0.091	0.180	0.359	-0.359
10	0.039	0.180	0.360	-0.360
11	-0.010	0.180	0.360	-0.360
12	-0.089	0.180	0.360	-0.360
13	-0.056	0.181	0.361	-0.361
14	-0.129	0.181	0.361	-0.361
15	-0.106	0.182	0.363	-0.363

East Wall Trends Appendix - Display 700

Correlogram for Surface Turbidity in East Wall
Adjusted for Seasonal Median and Detrended

Correlation

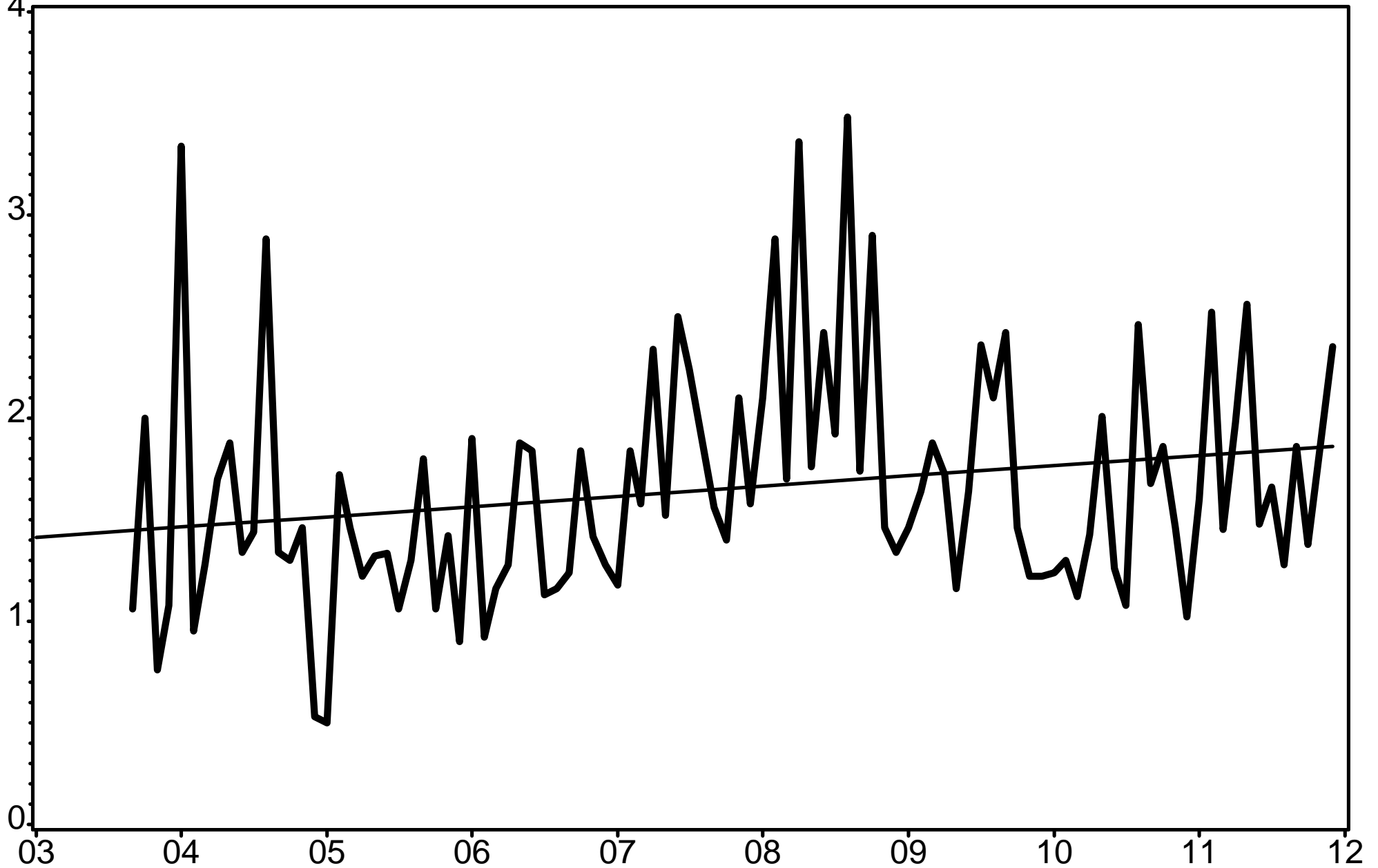


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 701

Monthly Data Time Series
for Surface BOD 5-Day in Estero Bay
Not Adjusted for Seasonal Medians

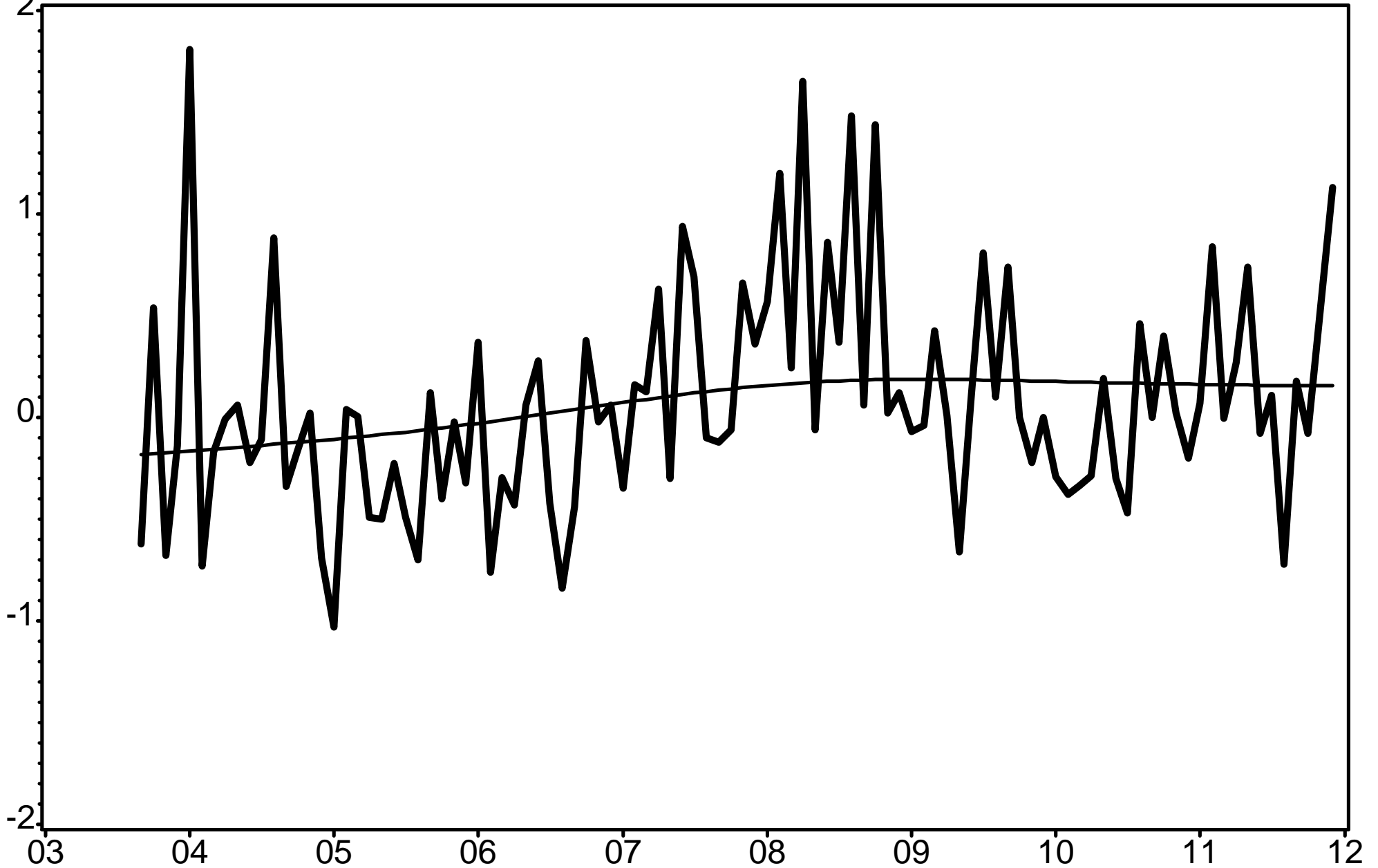
BOD_mgl
(mg/l)



Estero Bay Trends Appendix - Display 702

Monthly Data Time Series
for Surface BOD 5-Day in Estero Bay
Adjusted for Seasonal Medians

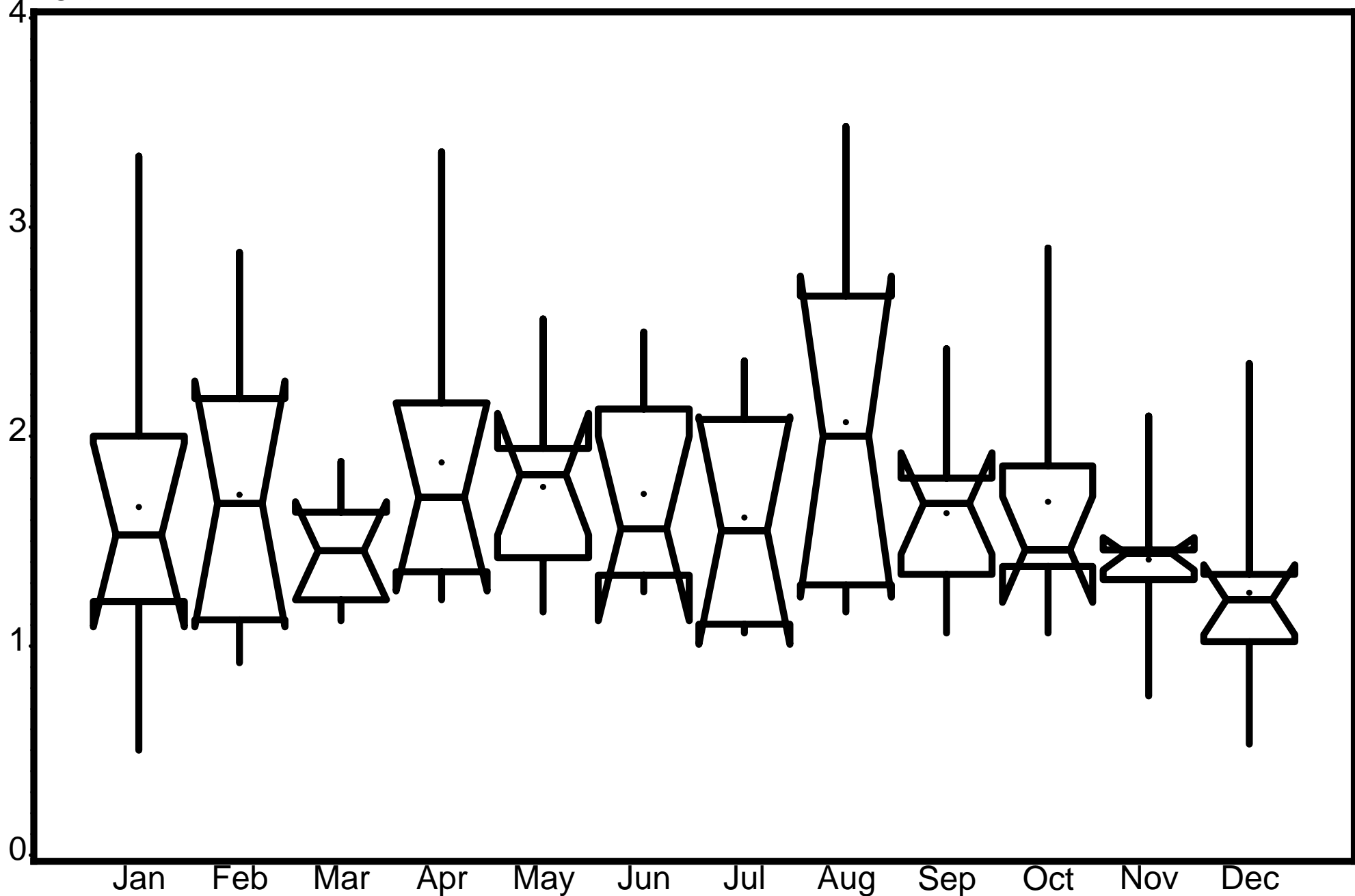
Adjusted
BOD_mgl
(mg/l)



Estero Bay Trends Appendix - Display 703

Seasonal Univariate Statistics
for Surface BOD 5-Day in Estero Bay

BOD_mgl
(mg/l)



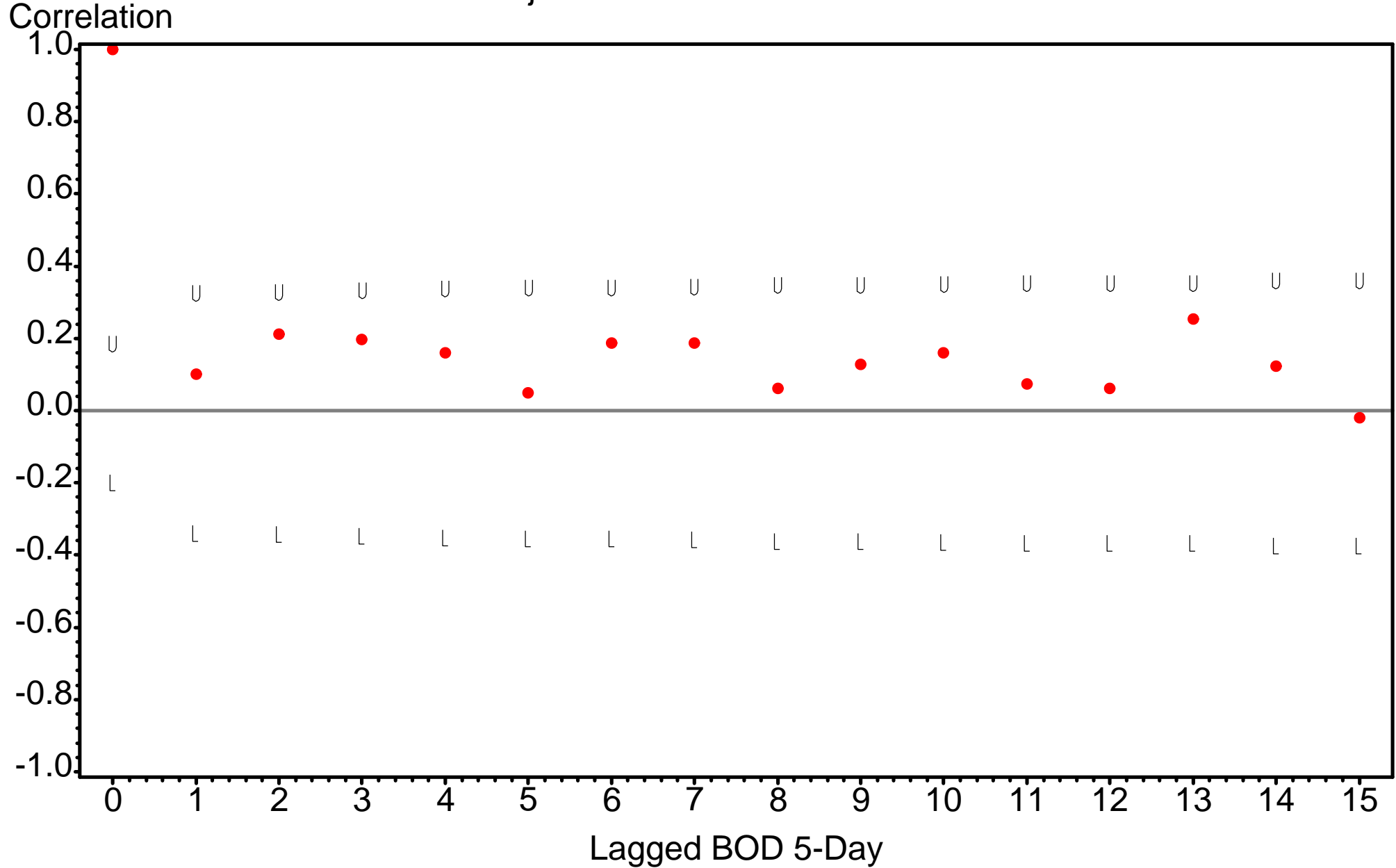
Estero Bay Trends Appendix - Display 704
Autocorrelation Statistics for Surface BOD 5-Day in Estero Bay

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.102	0.167	0.333	-0.333
2	0.211	0.167	0.334	-0.334
3	0.197	0.170	0.339	-0.339
4	0.161	0.172	0.344	-0.344
5	0.050	0.173	0.346	-0.346
6	0.187	0.173	0.347	-0.347
7	0.187	0.175	0.350	-0.350
8	0.061	0.177	0.354	-0.354
9	0.127	0.177	0.354	-0.354
10	0.160	0.178	0.356	-0.356
11	0.075	0.179	0.359	-0.359
12	0.062	0.180	0.359	-0.359
13	0.254	0.180	0.360	-0.360
14	0.123	0.183	0.366	-0.366
15	-0.020	0.184	0.368	-0.368

Estero Bay Trends Appendix - Display 705

Correlogram for Surface BOD 5-Day in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 706
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.175	0.01	0.01	0.052

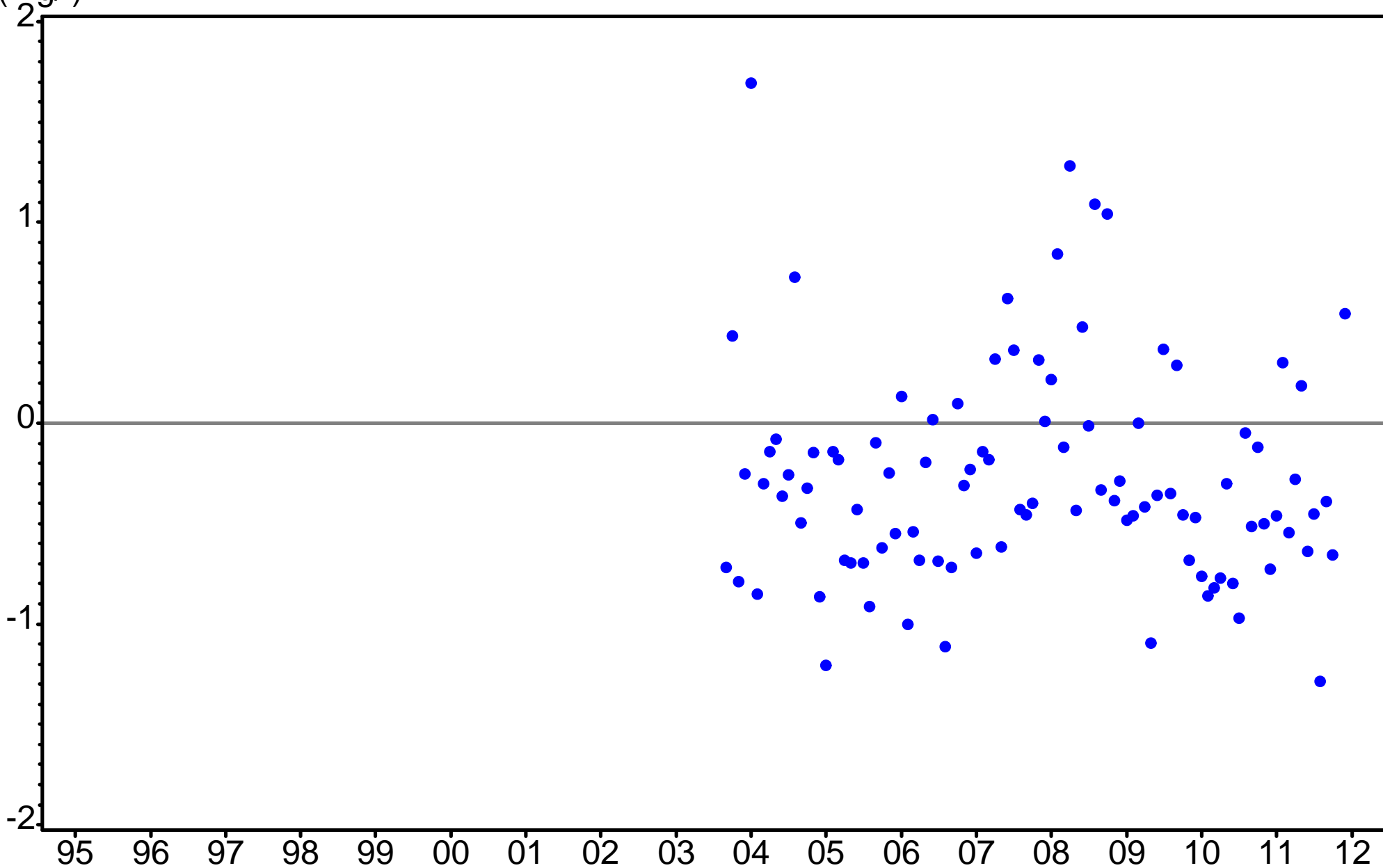
Estero Bay Trends Appendix - Display 707
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.19444	0.018583	0.18220	0.059167

Estero Bay Trends Appendix - Display 708

Time Series Plot of Surface BOD 5-Day Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(mg/l)



Zero Reference Line Shown

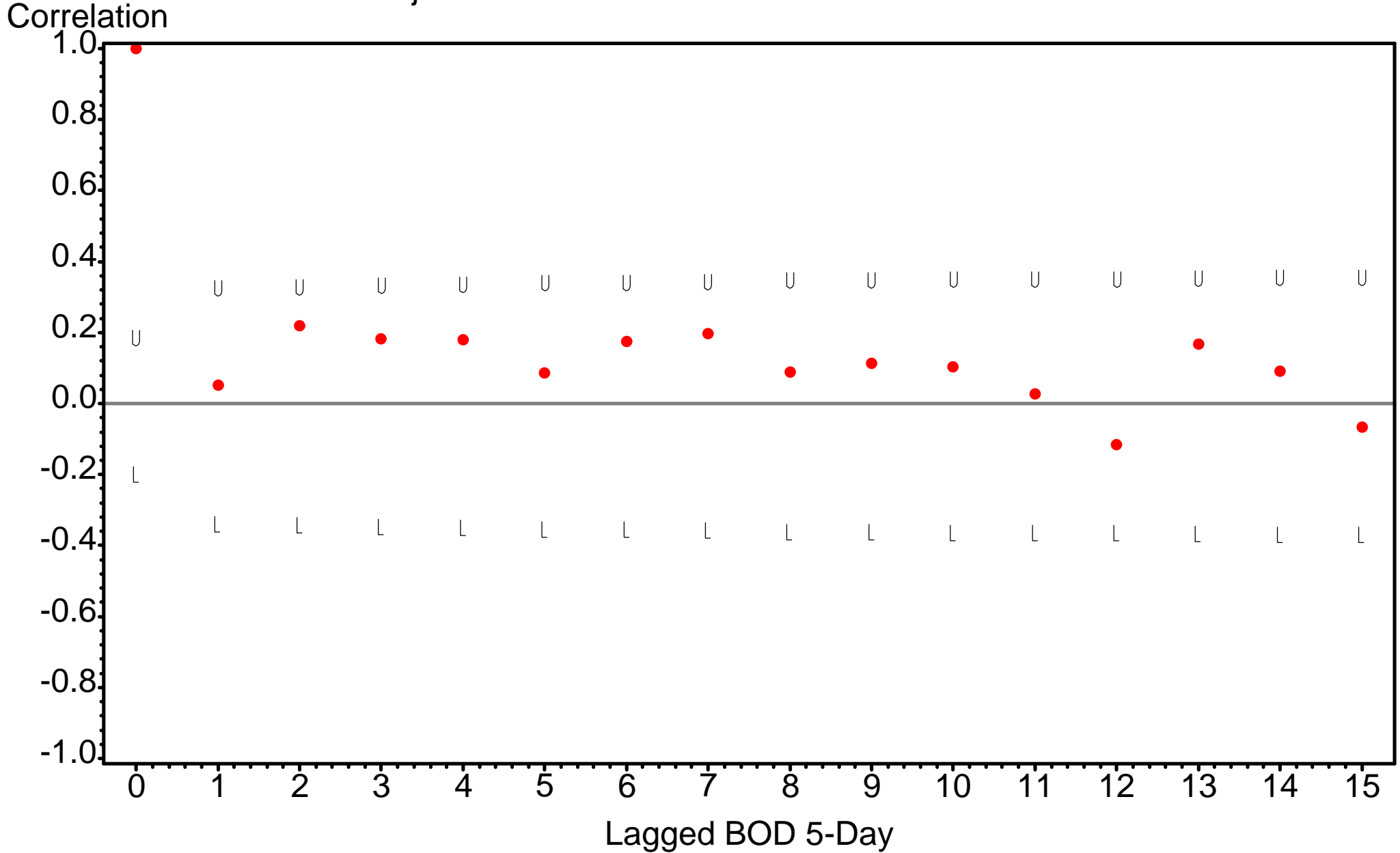
Estero Bay Trends Appendix - Display 709
Autocorrelation Statistics for Surface BOD 5-Day in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.051	0.167	0.333	-0.333
2	0.220	0.167	0.334	-0.334
3	0.181	0.169	0.339	-0.339
4	0.179	0.171	0.343	-0.343
5	0.086	0.173	0.346	-0.346
6	0.175	0.173	0.347	-0.347
7	0.197	0.175	0.350	-0.350
8	0.089	0.177	0.354	-0.354
9	0.113	0.177	0.355	-0.355
10	0.104	0.178	0.356	-0.356
11	0.026	0.179	0.357	-0.357
12	-0.116	0.179	0.357	-0.357
13	0.167	0.179	0.359	-0.359
14	0.091	0.181	0.362	-0.362
15	-0.066	0.181	0.363	-0.363

Estero Bay Trends Appendix - Display 710

Correlogram for Surface BOD 5-Day in Estero Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

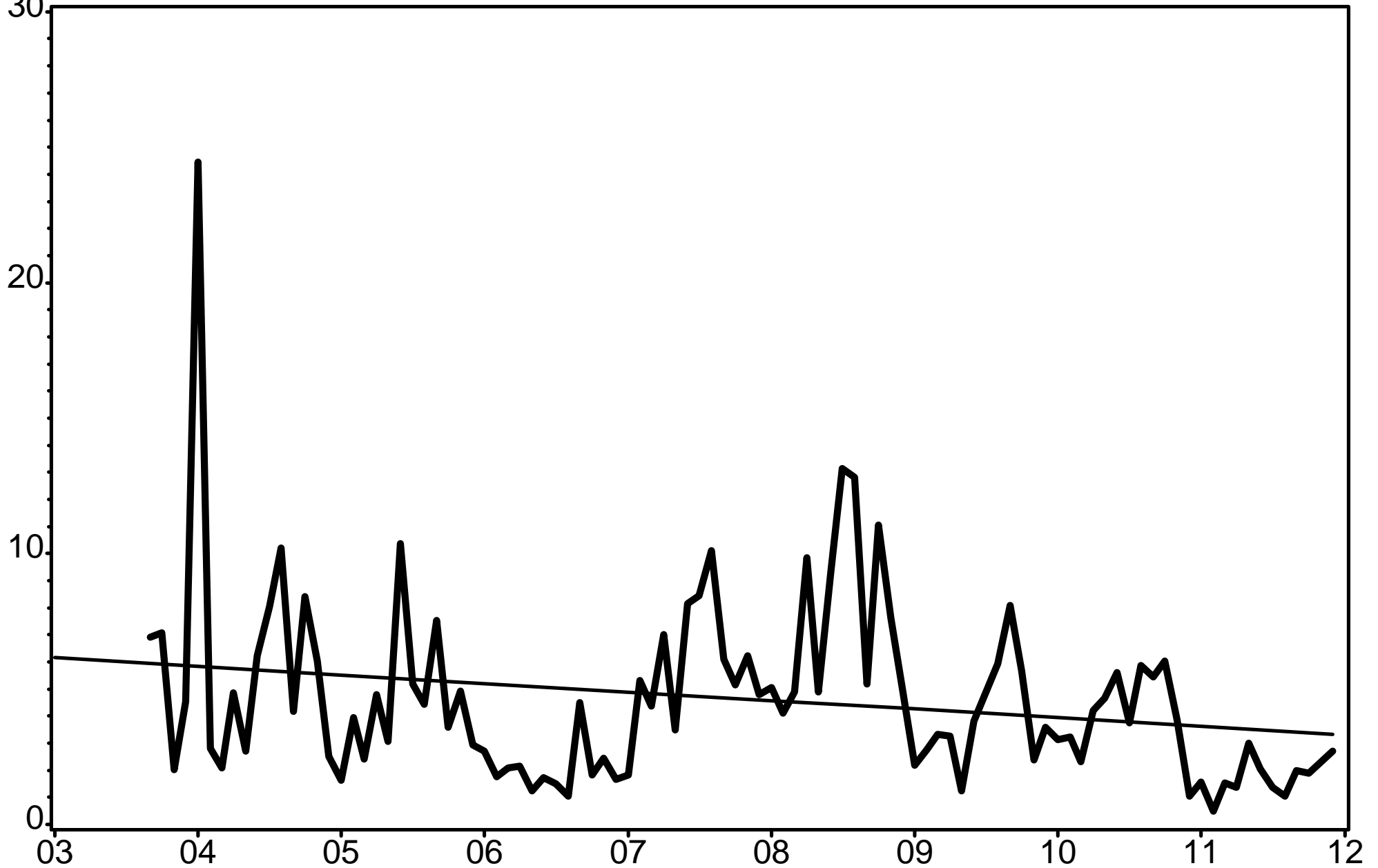
Estero Bay Trends Appendix - Display 711

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Estero Bay

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



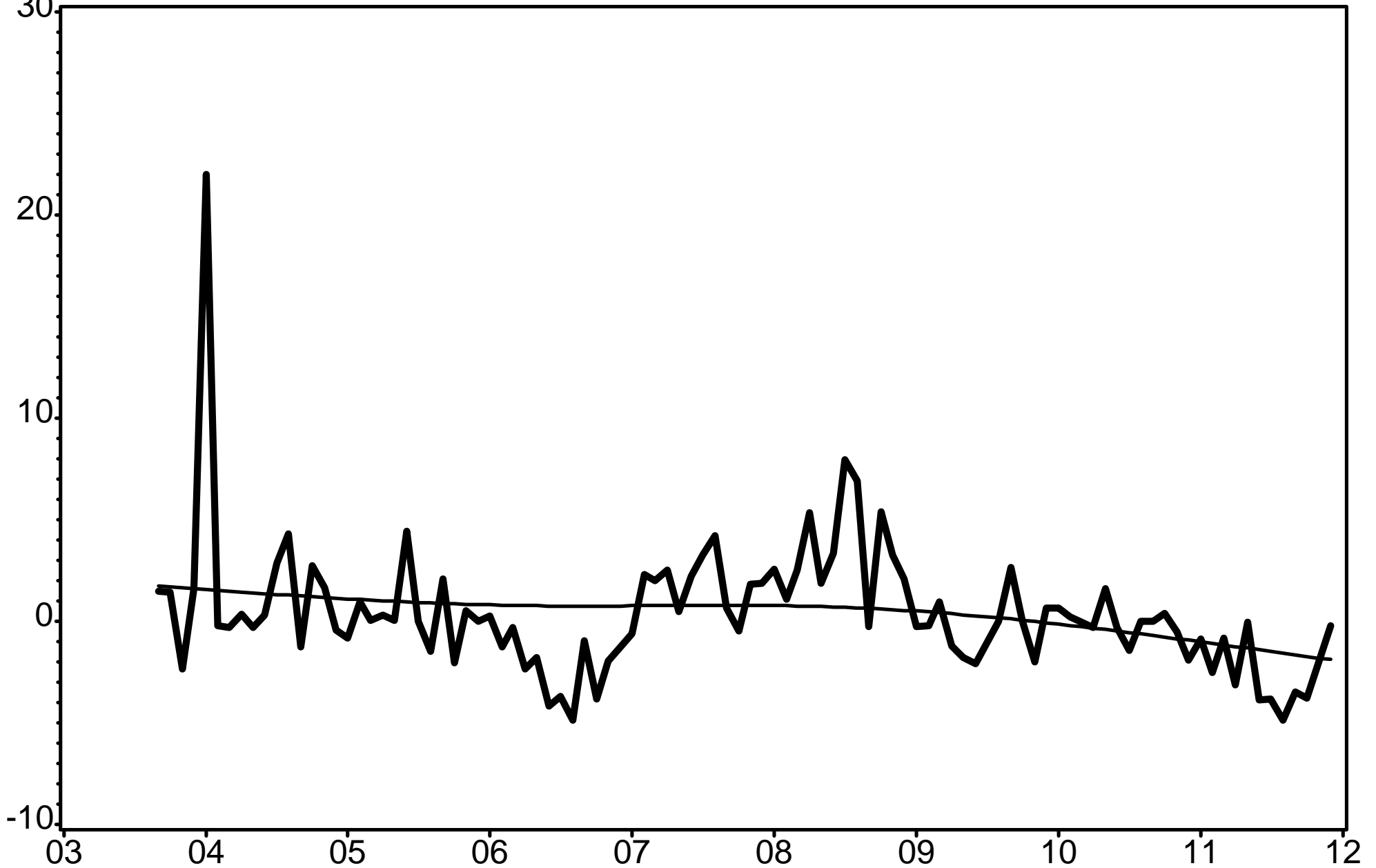
Estero Bay Trends Appendix - Display 712

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Estero Bay

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

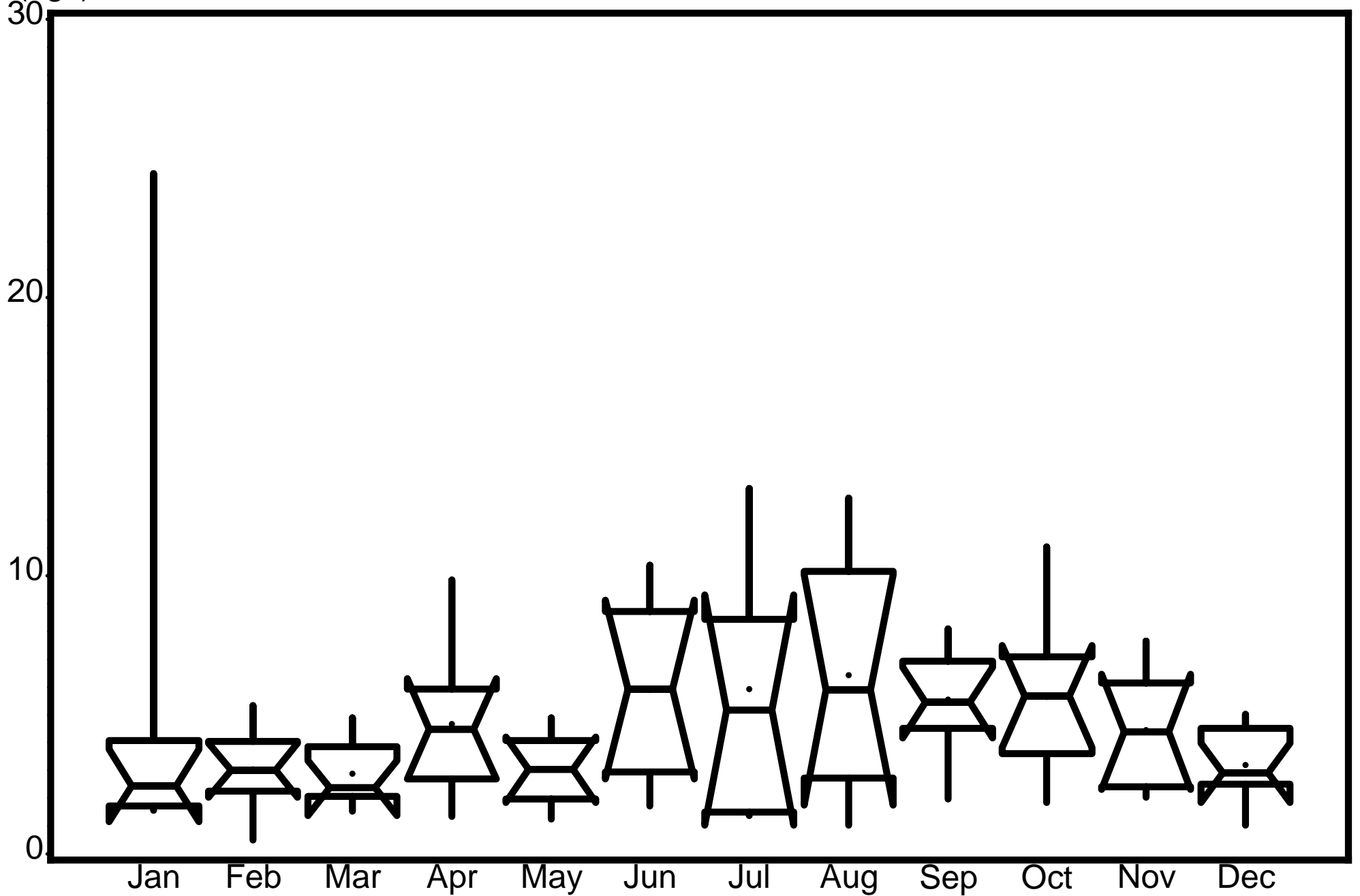


Estero Bay Trends Appendix - Display 713

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Estero Bay

CHLAC_ugl
(ug/l)

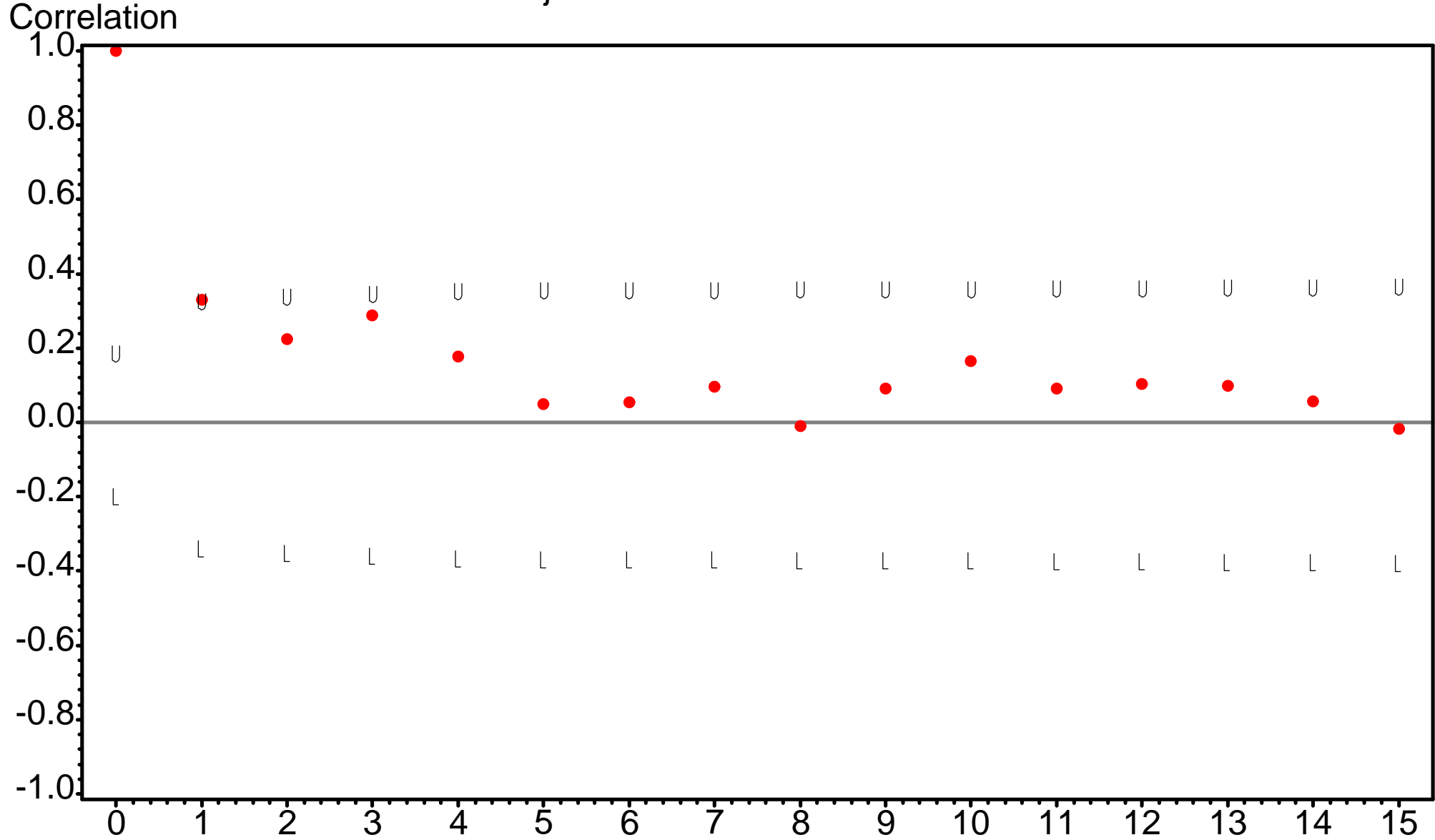


Estero Bay Trends Appendix - Display 714
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Estero Bay

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.329	0.167	0.333	-0.333
2	0.225	0.173	0.345	-0.345
3	0.289	0.175	0.351	-0.351
4	0.178	0.180	0.359	-0.359
5	0.050	0.181	0.362	-0.362
6	0.054	0.181	0.363	-0.363
7	0.097	0.182	0.363	-0.363
8	-0.010	0.182	0.364	-0.364
9	0.090	0.182	0.364	-0.364
10	0.164	0.182	0.365	-0.365
11	0.090	0.184	0.368	-0.368
12	0.104	0.184	0.368	-0.368
13	0.099	0.185	0.369	-0.369
14	0.056	0.185	0.370	-0.370
15	-0.018	0.185	0.371	-0.371

Estero Bay Trends Appendix - Display 715

Correlogram for Surface Chlorophyll-a (Corrected) in Estero Bay Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 716
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.146	0.033	0.033	-0.212

Estero Bay Trends Appendix - Display 717
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Estero Bay
Adjusted for Seasonal Medians

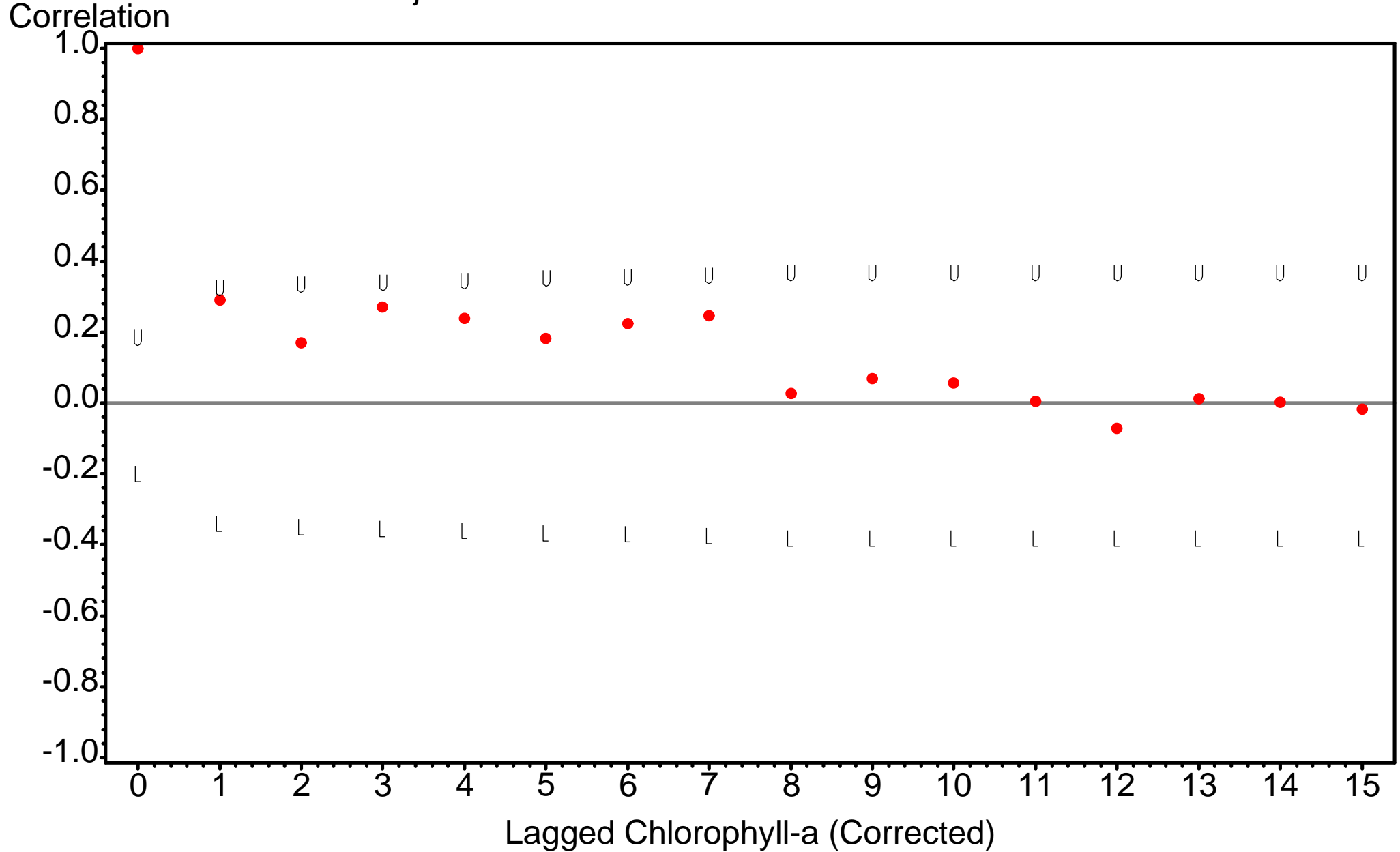
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13031	0.12095	0.53287	-0.15029

Estero Bay Trends Appendix - Display 719
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.290	0.167	0.333	-0.333
2	0.170	0.171	0.343	-0.343
3	0.271	0.173	0.346	-0.346
4	0.238	0.177	0.353	-0.353
5	0.182	0.180	0.359	-0.359
6	0.223	0.181	0.363	-0.363
7	0.247	0.184	0.368	-0.368
8	0.026	0.187	0.374	-0.374
9	0.068	0.187	0.374	-0.374
10	0.057	0.187	0.374	-0.374
11	0.004	0.187	0.375	-0.375
12	-0.072	0.187	0.375	-0.375
13	0.012	0.188	0.375	-0.375
14	0.002	0.188	0.375	-0.375
15	-0.016	0.188	0.375	-0.375

Estero Bay Trends Appendix - Display 720

Correlogram for Surface Chlorophyll-a (Corrected) in Estero Bay Adjusted for Seasonal Median and Detrended

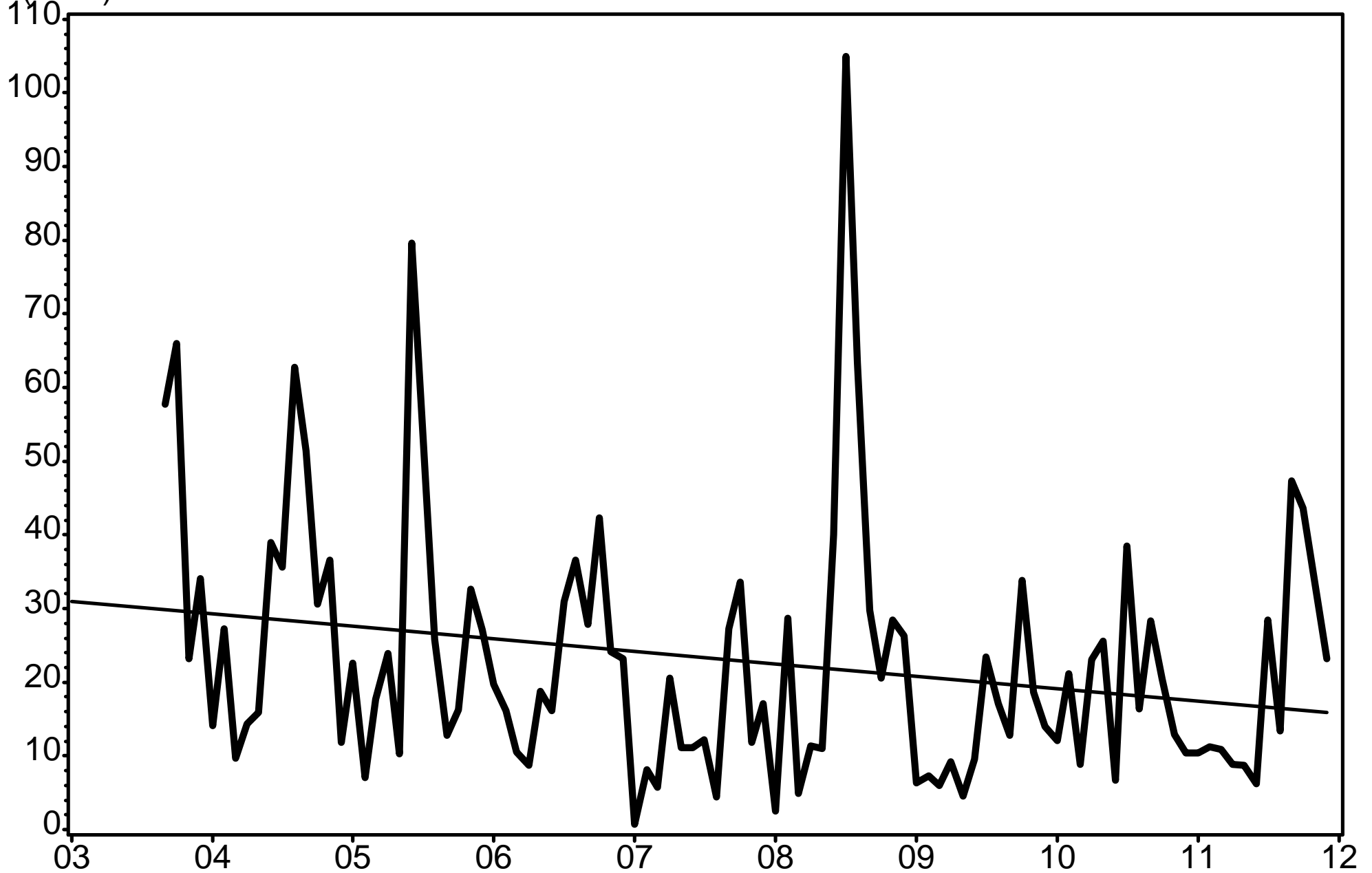


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 721

Monthly Data Time Series
for Surface Color in Estero Bay
Not Adjusted for Seasonal Medians

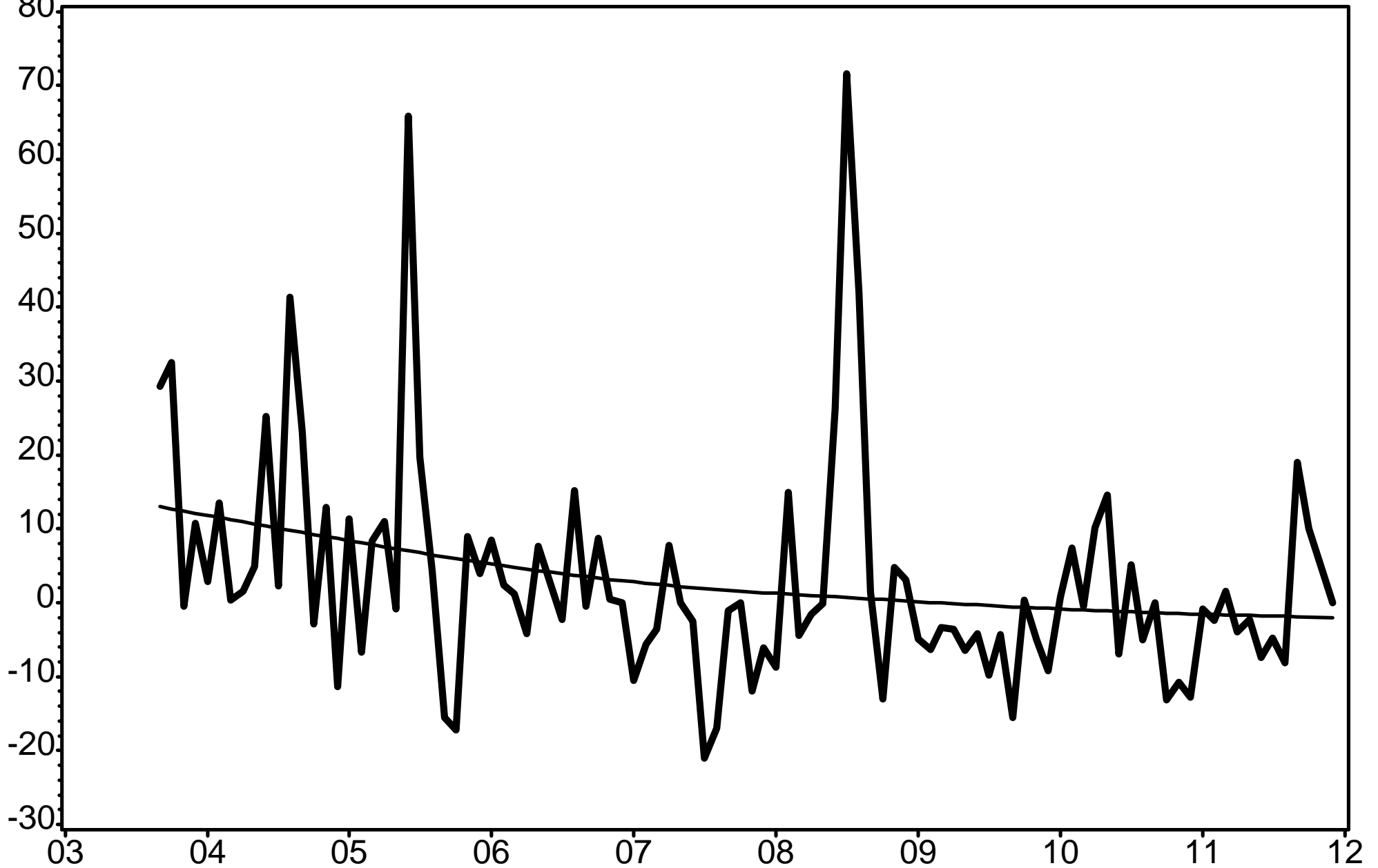
COLOR
(PCU)



Estero Bay Trends Appendix - Display 722

Monthly Data Time Series
for Surface Color in Estero Bay
Adjusted for Seasonal Medians

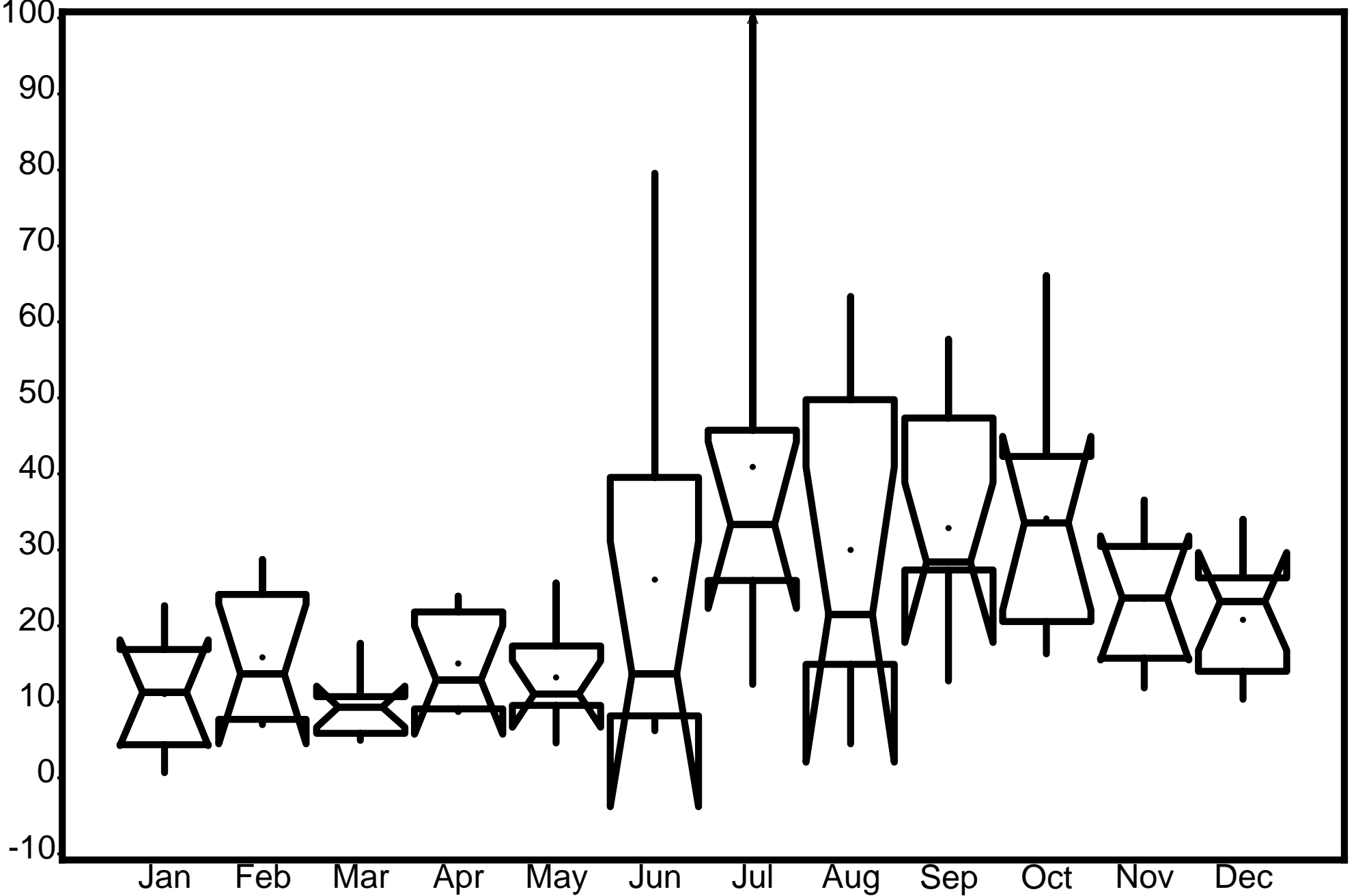
Adjusted
COLOR
(PCU)



Estero Bay Trends Appendix - Display 723

Seasonal Univariate Statistics
for Surface Color in Estero Bay

COLOR
(PCU)



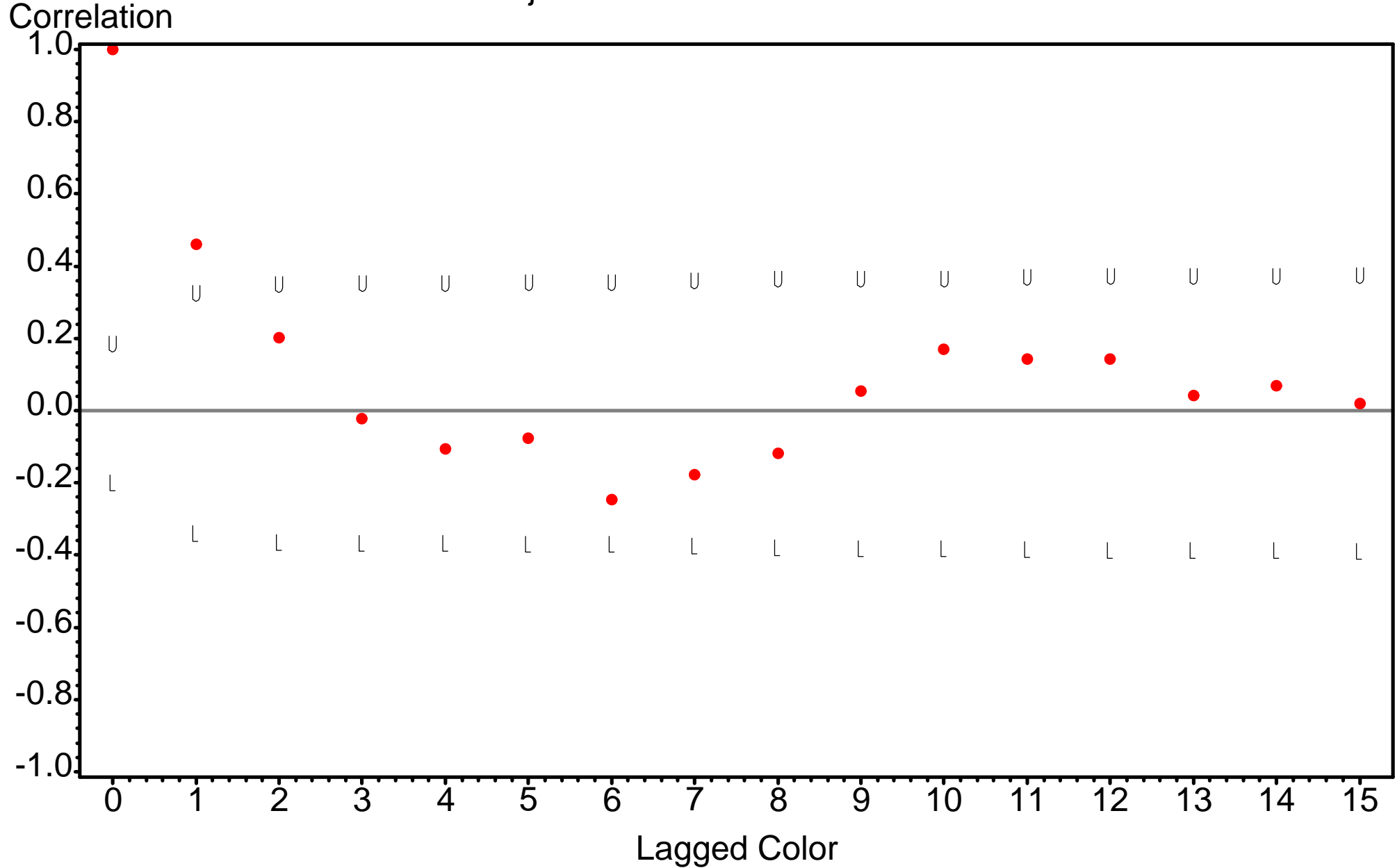
Estero Bay Trends Appendix - Display 724

Autocorrelation Statistics for Surface Color in Estero Bay

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.460	0.167	0.333	-0.333
2	0.202	0.178	0.356	-0.356
3	-0.021	0.180	0.360	-0.360
4	-0.105	0.180	0.360	-0.360
5	-0.077	0.181	0.361	-0.361
6	-0.247	0.181	0.362	-0.362
7	-0.177	0.184	0.368	-0.368
8	-0.119	0.186	0.371	-0.371
9	0.055	0.186	0.373	-0.373
10	0.170	0.187	0.373	-0.373
11	0.142	0.188	0.376	-0.376
12	0.144	0.189	0.378	-0.378
13	0.043	0.190	0.380	-0.380
14	0.069	0.190	0.380	-0.380
15	0.020	0.190	0.381	-0.381

Estero Bay Trends Appendix - Display 725

Correlogram for Surface Color in Estero Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 726
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.165	0.016	0.016	-1.296

Estero Bay Trends Appendix - Display 727
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23889	.00383069	0.061435	-1.44961

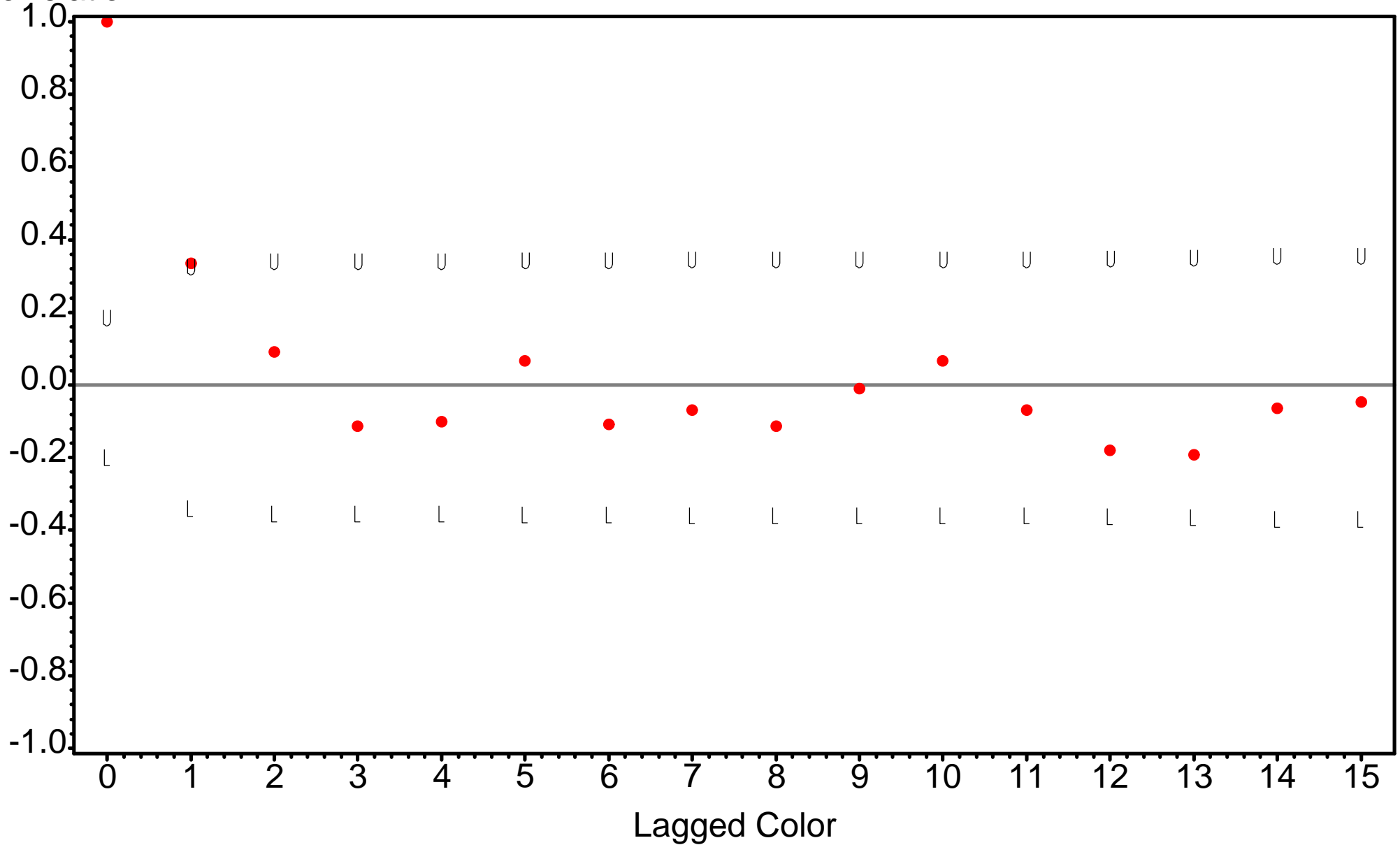
Estero Bay Trends Appendix - Display 729
Autocorrelation Statistics for Surface Color in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.336	0.167	0.333	-0.333
2	0.091	0.173	0.346	-0.346
3	-0.113	0.173	0.347	-0.347
4	-0.101	0.174	0.348	-0.348
5	0.067	0.175	0.349	-0.349
6	-0.109	0.175	0.349	-0.349
7	-0.068	0.175	0.351	-0.351
8	-0.113	0.176	0.351	-0.351
9	-0.011	0.176	0.353	-0.353
10	0.067	0.176	0.353	-0.353
11	-0.069	0.177	0.353	-0.353
12	-0.180	0.177	0.354	-0.354
13	-0.193	0.178	0.357	-0.357
14	-0.063	0.180	0.361	-0.361
15	-0.047	0.181	0.361	-0.361

Estero Bay Trends Appendix - Display 730

Correlogram for Surface Color in Estero Bay
Adjusted for Seasonal Median and Detrended

Correlation

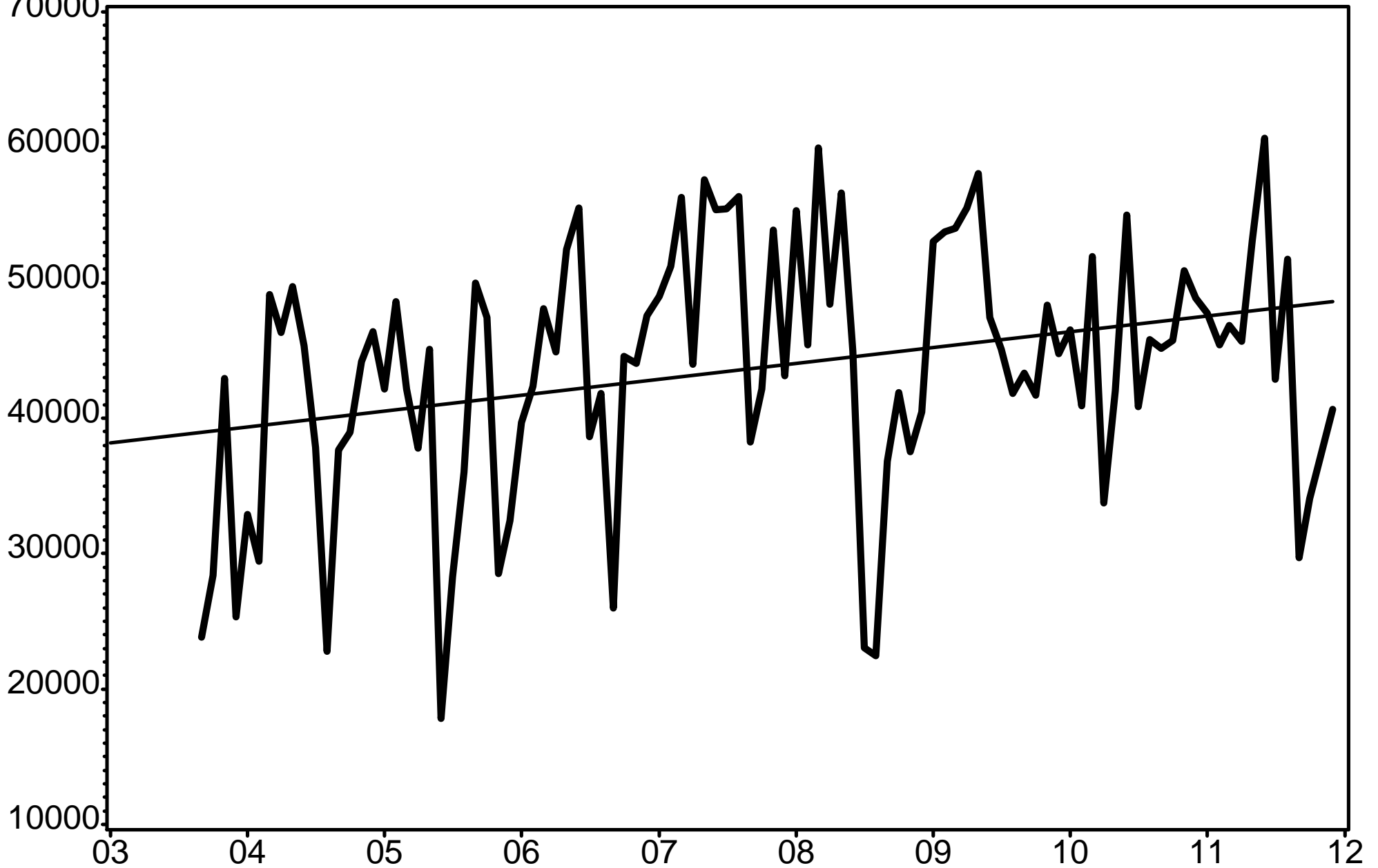


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 731

Monthly Data Time Series
for Surface Specific Conductance in Estero Bay
Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



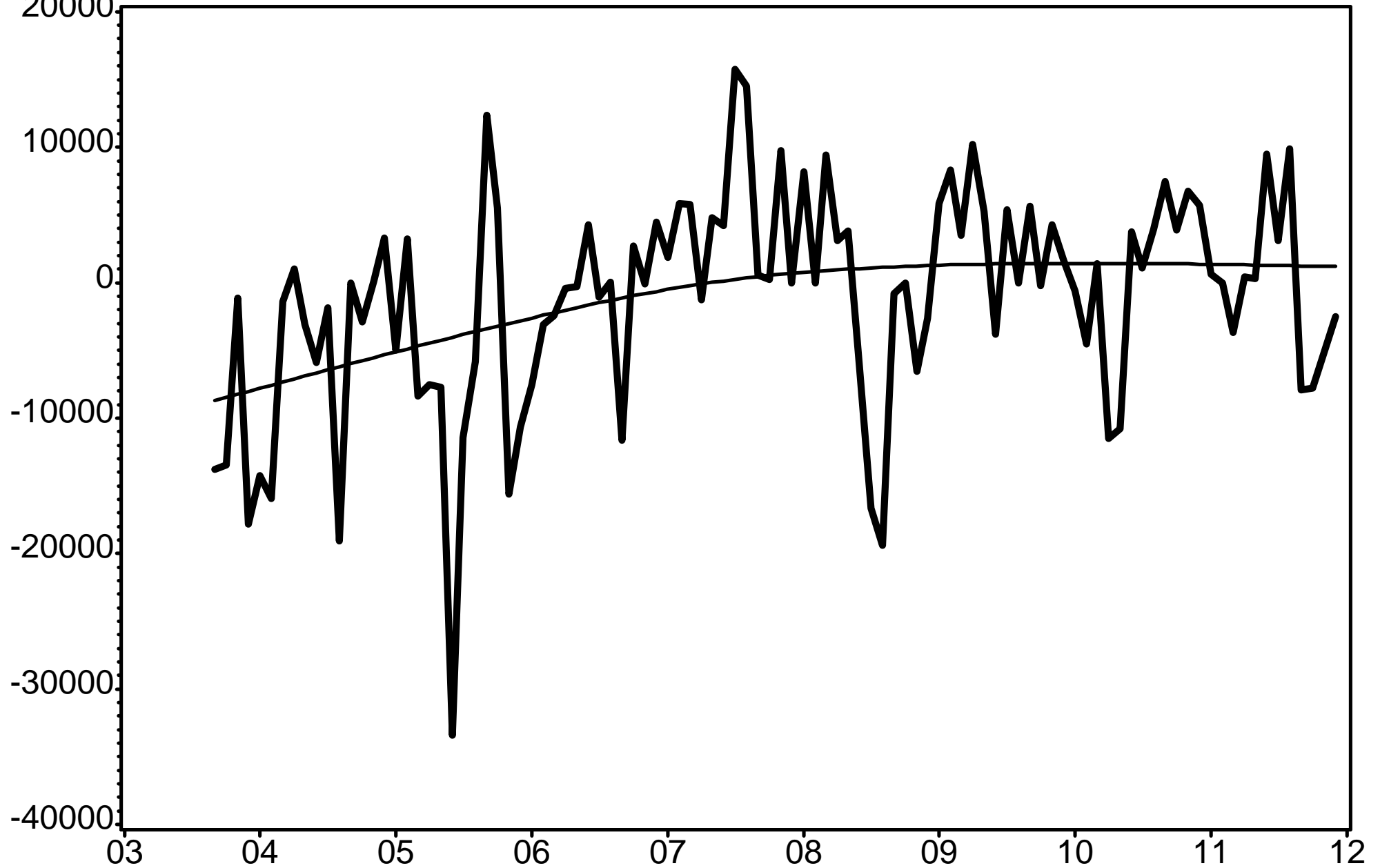
Estero Bay Trends Appendix - Display 732

Monthly Data Time Series

for Surface Specific Conductance in Estero Bay

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000

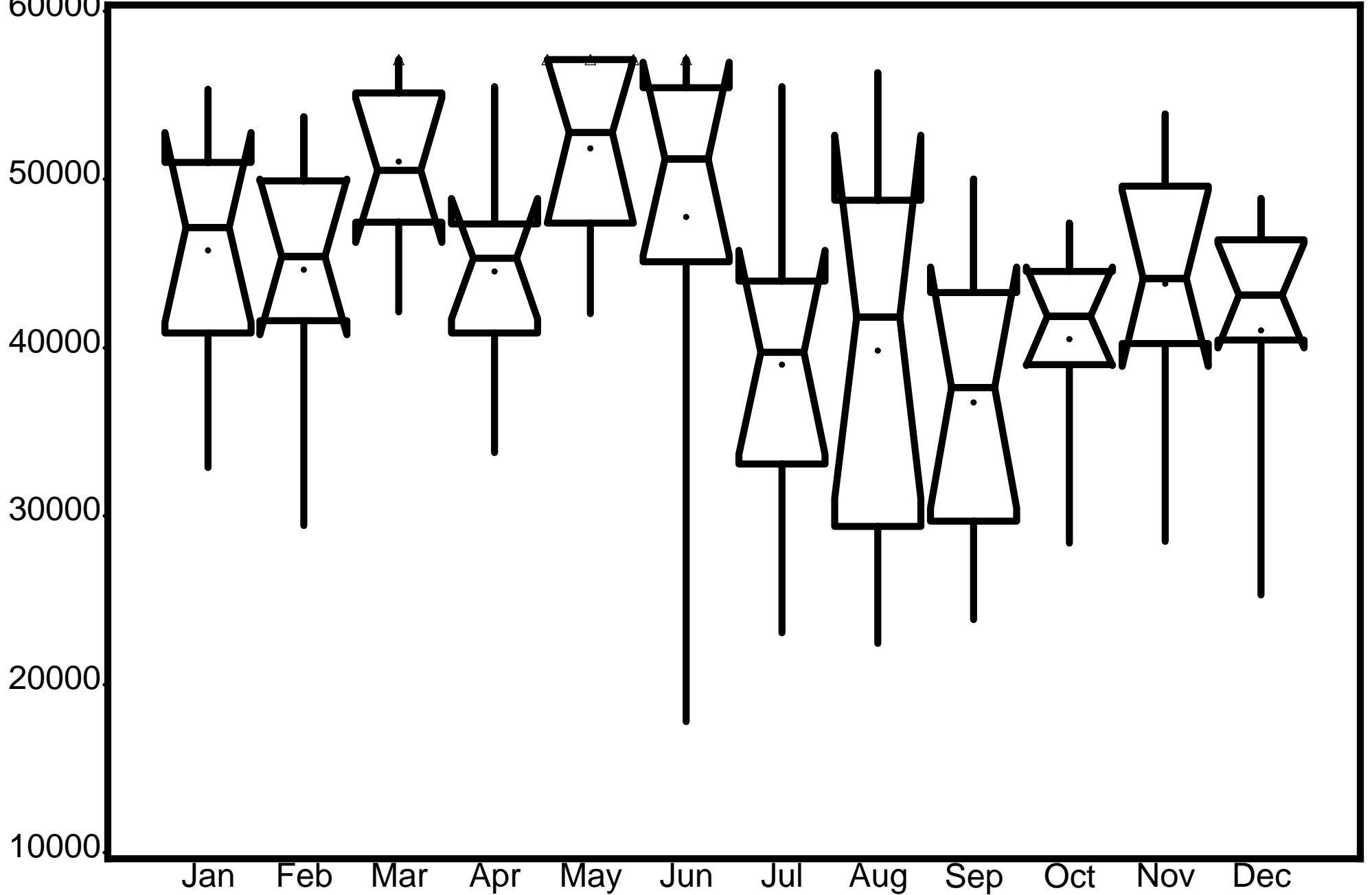


Estero Bay Trends Appendix - Display 733

Seasonal Univariate Statistics

for Surface Specific Conductance in Estero Bay

COND
($\mu\text{S}/\text{cm}$)
60000



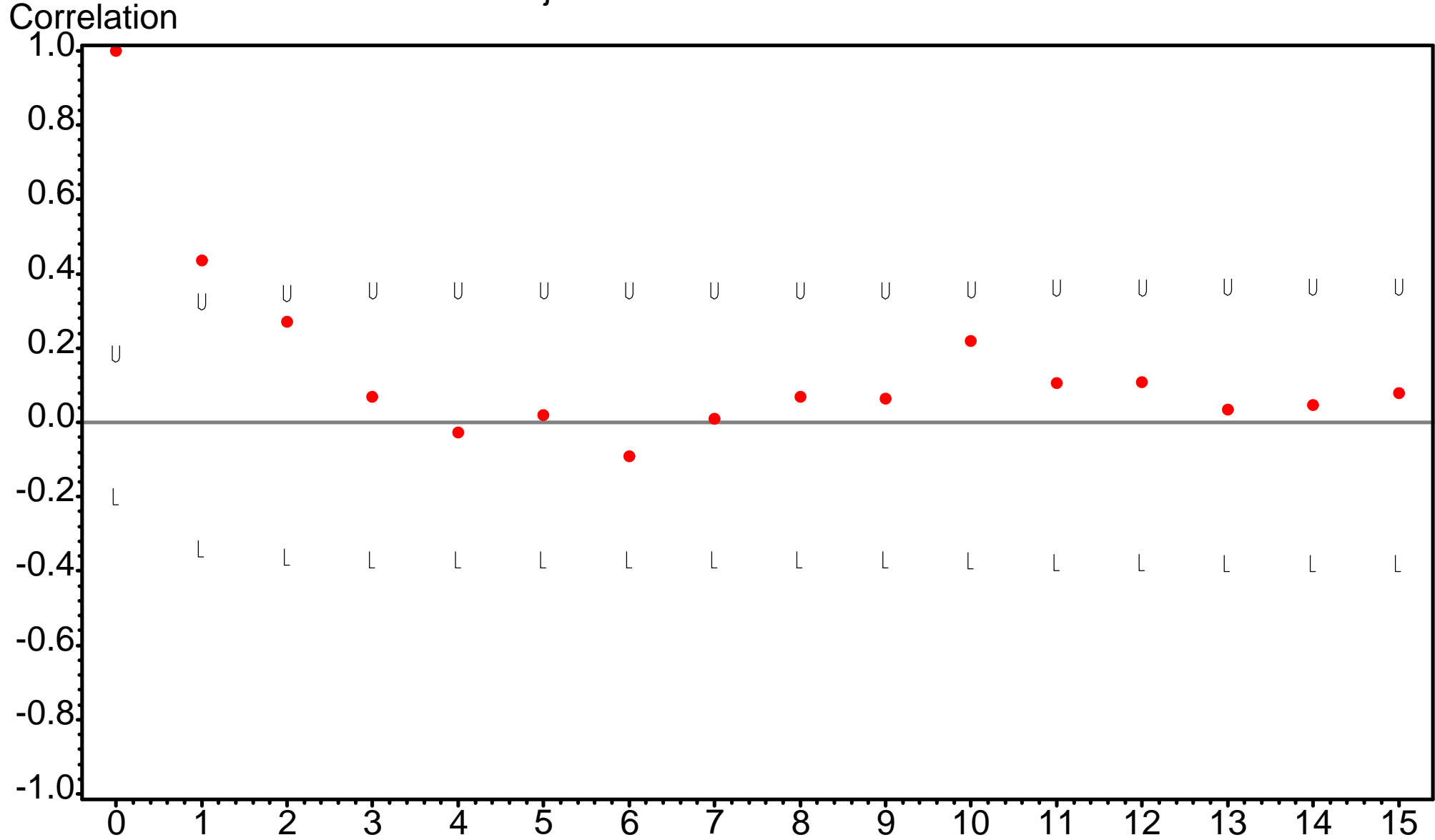
Estero Bay Trends Appendix - Display 734
Autocorrelation Statistics for Surface Specific Conductance in Estero Bay

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.437	0.167	0.333	-0.333
2	0.272	0.177	0.354	-0.354
3	0.068	0.181	0.362	-0.362
4	-0.027	0.181	0.362	-0.362
5	0.020	0.181	0.362	-0.362
6	-0.090	0.181	0.362	-0.362
7	0.009	0.181	0.363	-0.363
8	0.070	0.181	0.363	-0.363
9	0.063	0.182	0.363	-0.363
10	0.218	0.182	0.364	-0.364
11	0.106	0.184	0.369	-0.369
12	0.109	0.185	0.370	-0.370
13	0.034	0.186	0.371	-0.371
14	0.048	0.186	0.371	-0.371
15	0.080	0.186	0.371	-0.371

Estero Bay Trends Appendix - Display 735

Correlogram for Surface Specific Conductance in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 736
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.182	.008	.008	1037.75

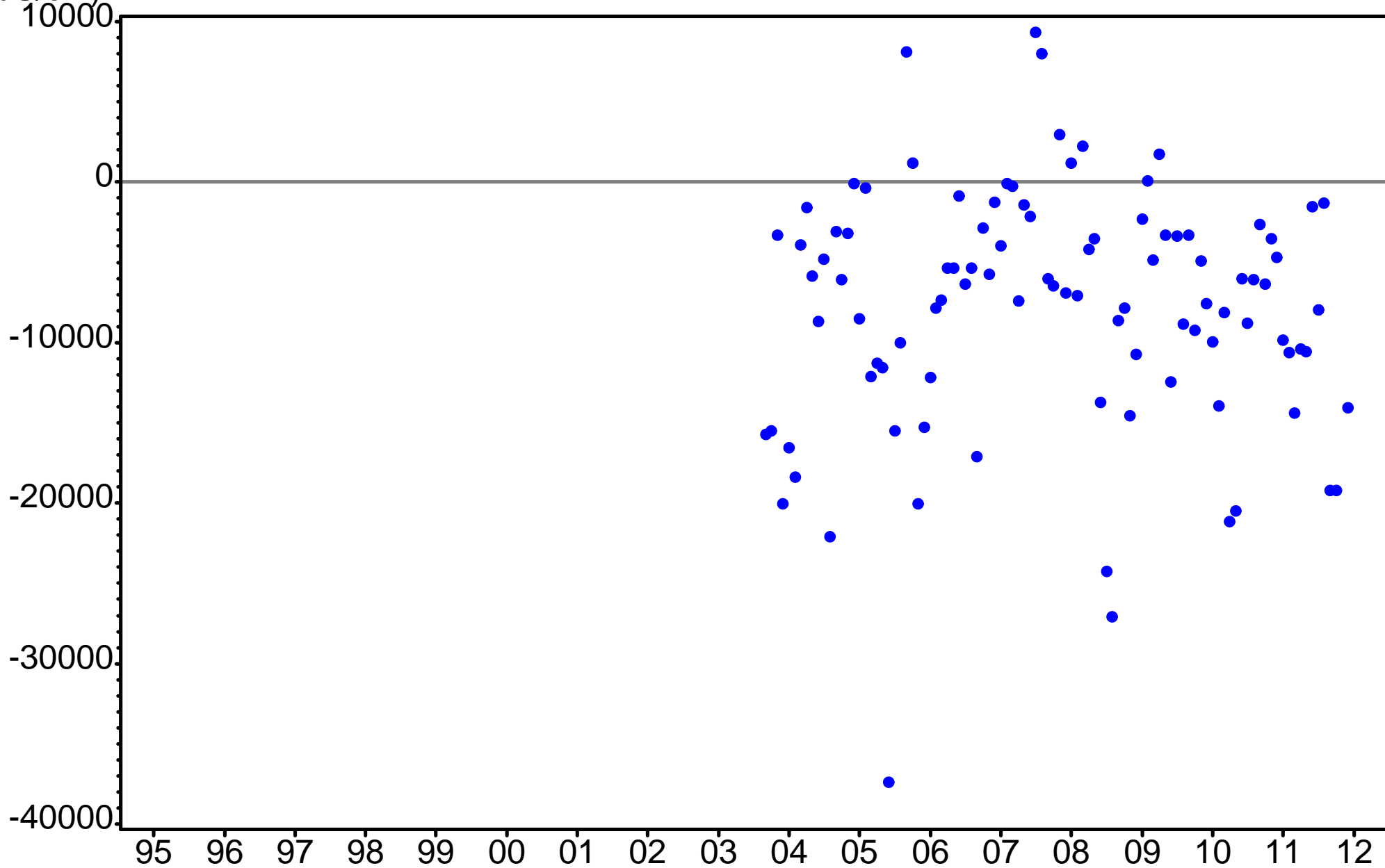
Estero Bay Trends Appendix - Display 737
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.23611	.00424433	0.073203	1167.14

Estero Bay Trends Appendix - Display 738

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Estero Bay

Adjusted
($\mu\text{S}/\text{cm}$)



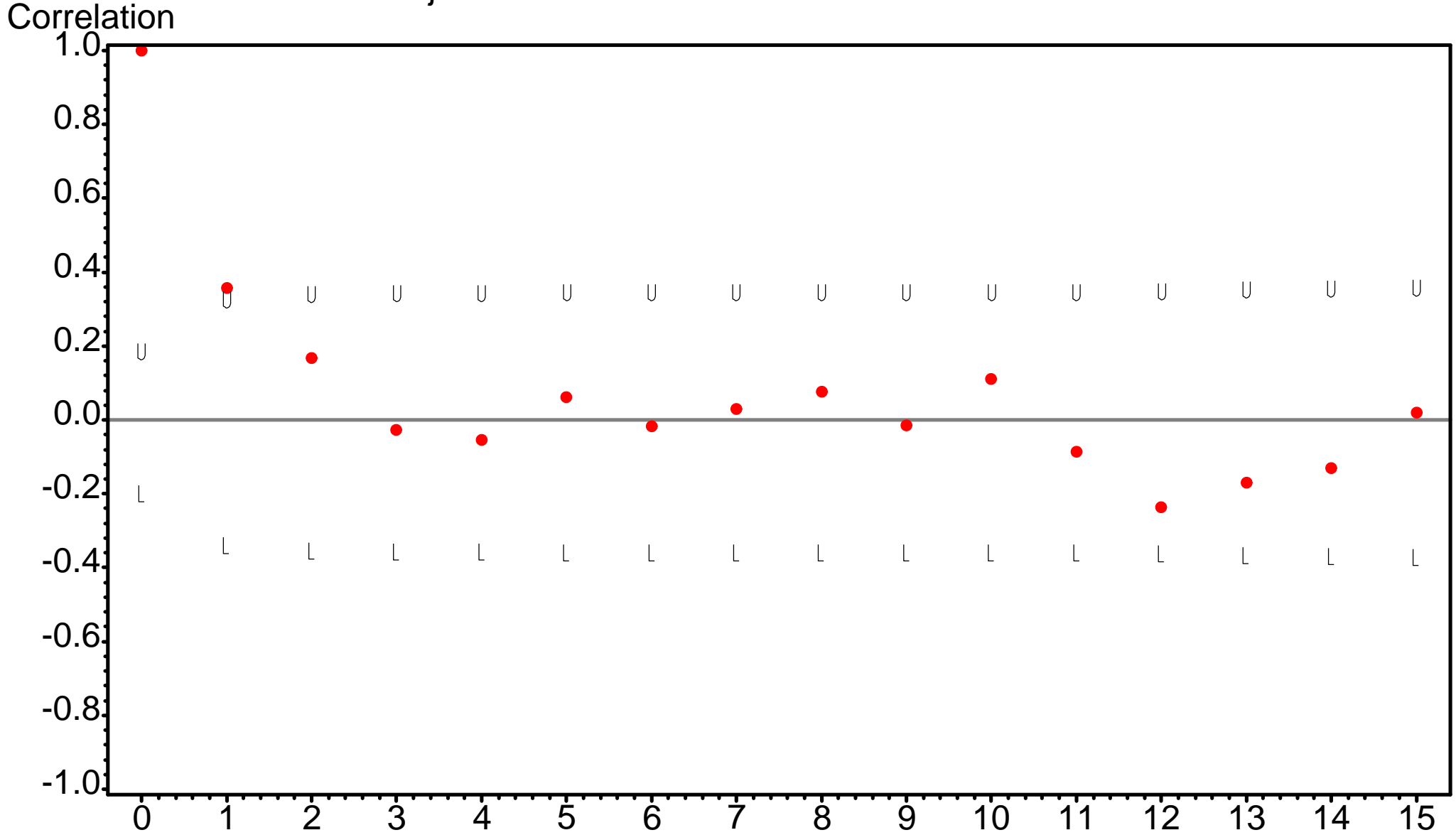
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 739
Autocorrelation Statistics for Surface Specific Conductance in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.356	0.167	0.333	-0.333
2	0.167	0.174	0.347	-0.347
3	-0.027	0.175	0.350	-0.350
4	-0.055	0.175	0.350	-0.350
5	0.062	0.175	0.351	-0.351
6	-0.017	0.175	0.351	-0.351
7	0.029	0.175	0.351	-0.351
8	0.077	0.176	0.351	-0.351
9	-0.015	0.176	0.352	-0.352
10	0.110	0.176	0.352	-0.352
11	-0.086	0.176	0.353	-0.353
12	-0.237	0.177	0.354	-0.354
13	-0.170	0.180	0.360	-0.360
14	-0.131	0.181	0.363	-0.363
15	0.019	0.182	0.364	-0.364

Estero Bay Trends Appendix - Display 740

Correlogram for Surface Specific Conductance in Estero Bay Adjusted for Seasonal Median and Detrended

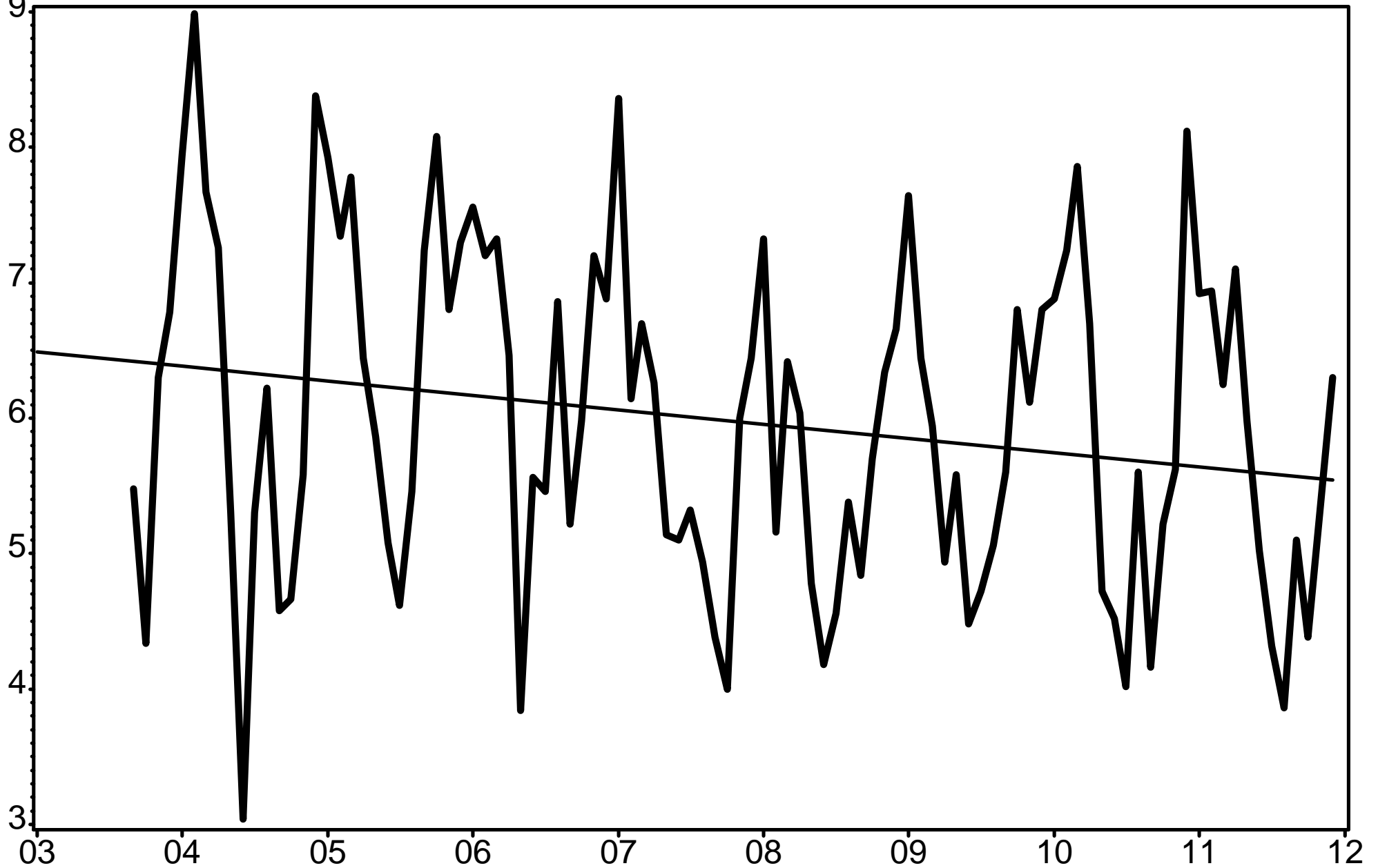


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 741

Monthly Data Time Series
for Surface Dissolved Oxygen in Estero Bay
Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



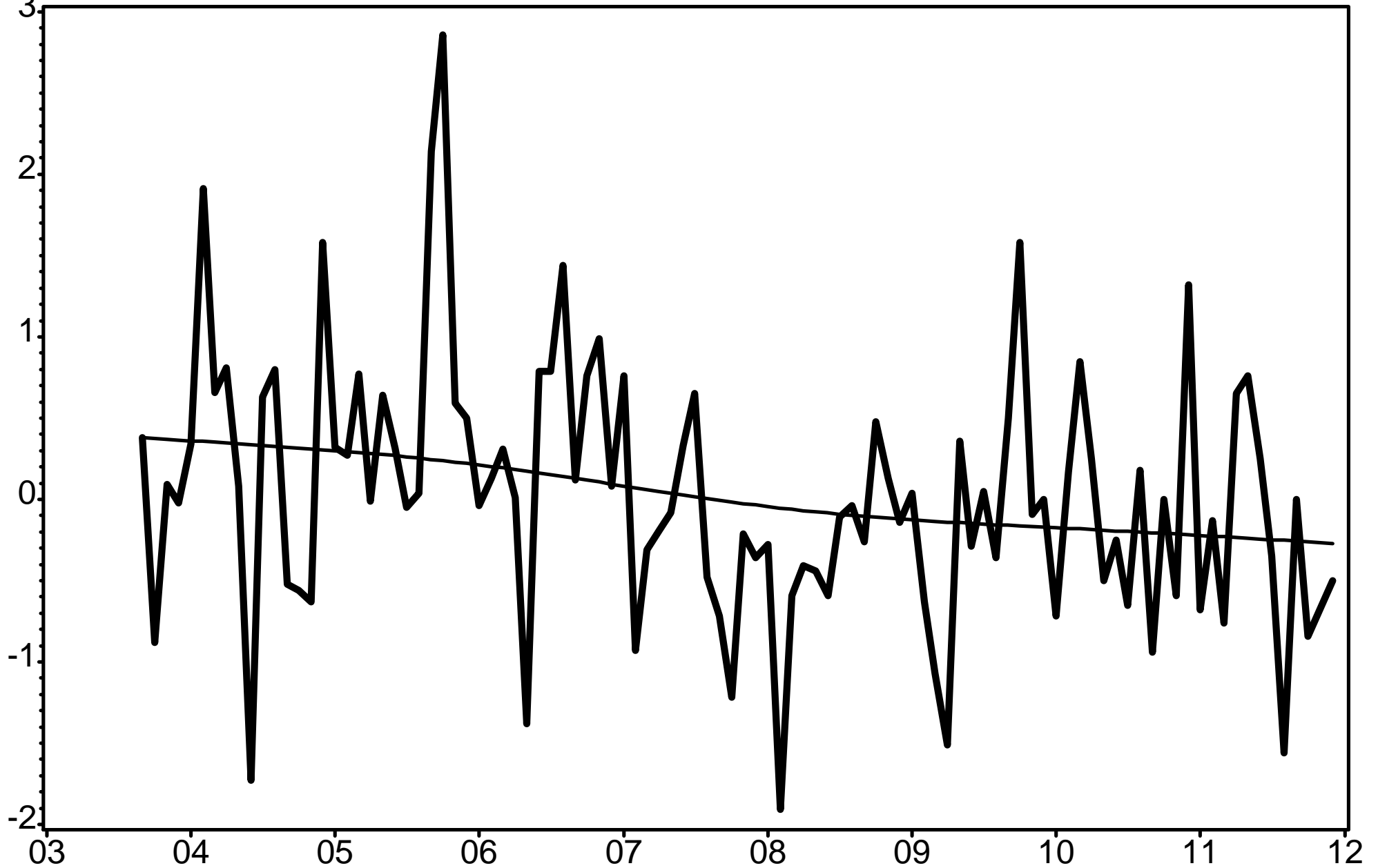
Estero Bay Trends Appendix - Display 742

Monthly Data Time Series

for Surface Dissolved Oxygen in Estero Bay

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

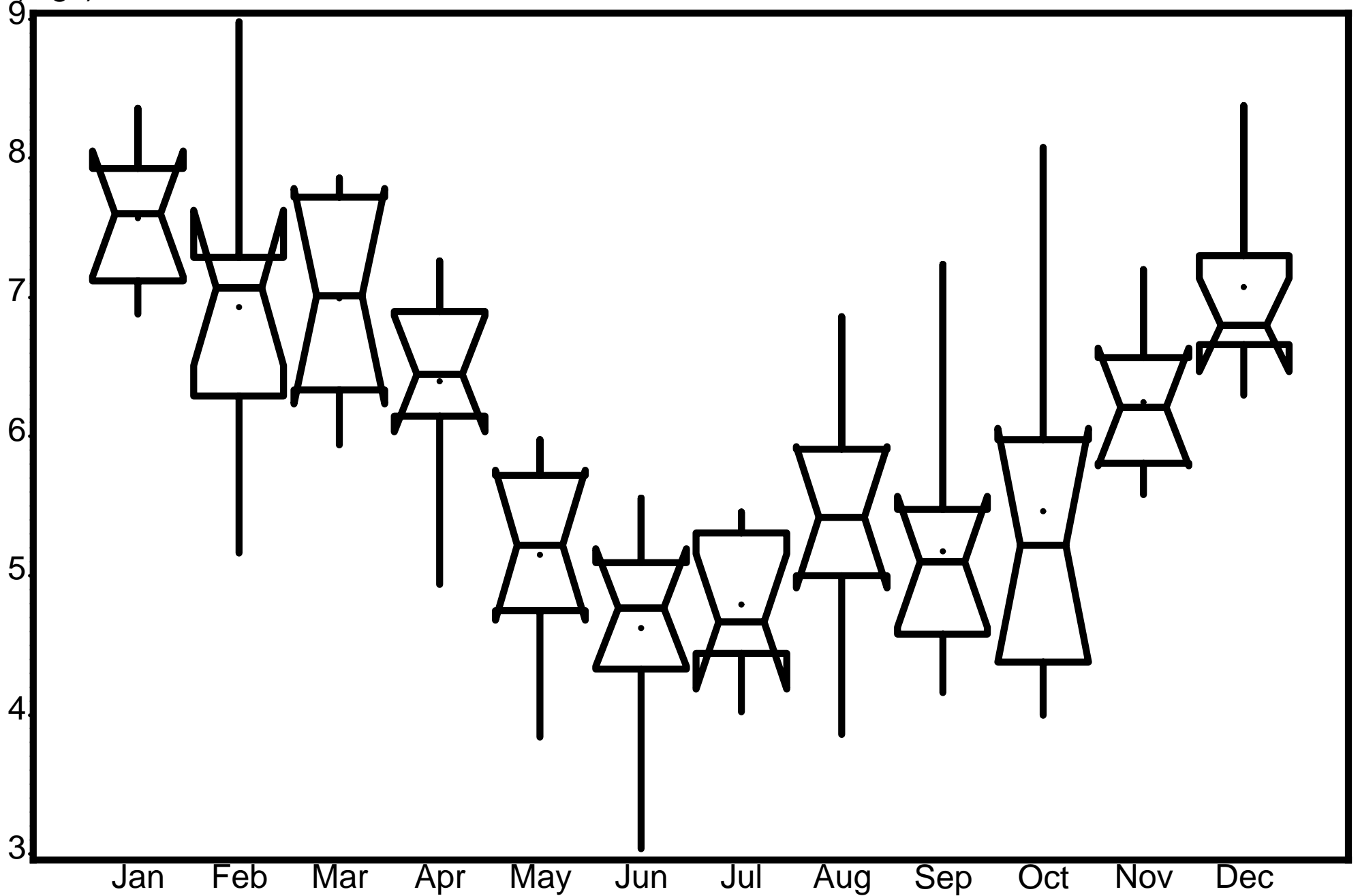


Estero Bay Trends Appendix - Display 743

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Estero Bay

DO_mgl
(mg/l)



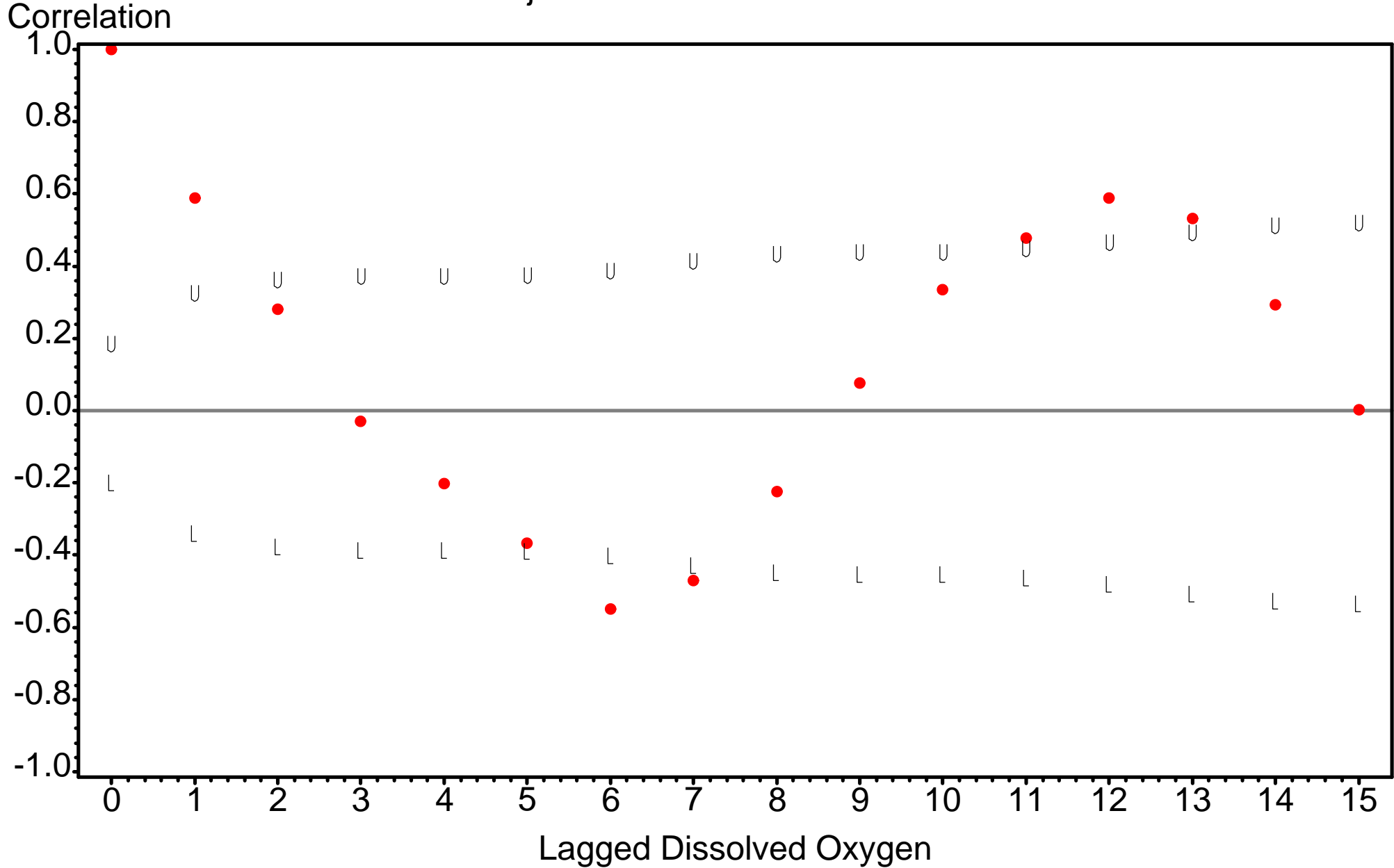
Estero Bay Trends Appendix - Display 744
Autocorrelation Statistics for Surface Dissolved Oxygen in Estero Bay

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.589	0.167	0.333	-0.333
2	0.281	0.185	0.370	-0.370
3	-0.030	0.189	0.378	-0.378
4	-0.202	0.189	0.378	-0.378
5	-0.366	0.191	0.382	-0.382
6	-0.550	0.197	0.395	-0.395
7	-0.469	0.211	0.422	-0.422
8	-0.224	0.220	0.441	-0.441
9	0.077	0.223	0.445	-0.445
10	0.334	0.223	0.446	-0.446
11	0.478	0.227	0.455	-0.455
12	0.588	0.236	0.473	-0.473
13	0.533	0.250	0.499	-0.499
14	0.292	0.260	0.520	-0.520
15	0.002	0.263	0.526	-0.526

Estero Bay Trends Appendix - Display 745

Correlogram for Surface Dissolved Oxygen in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 746
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.143	0.036	0.036	-0.122

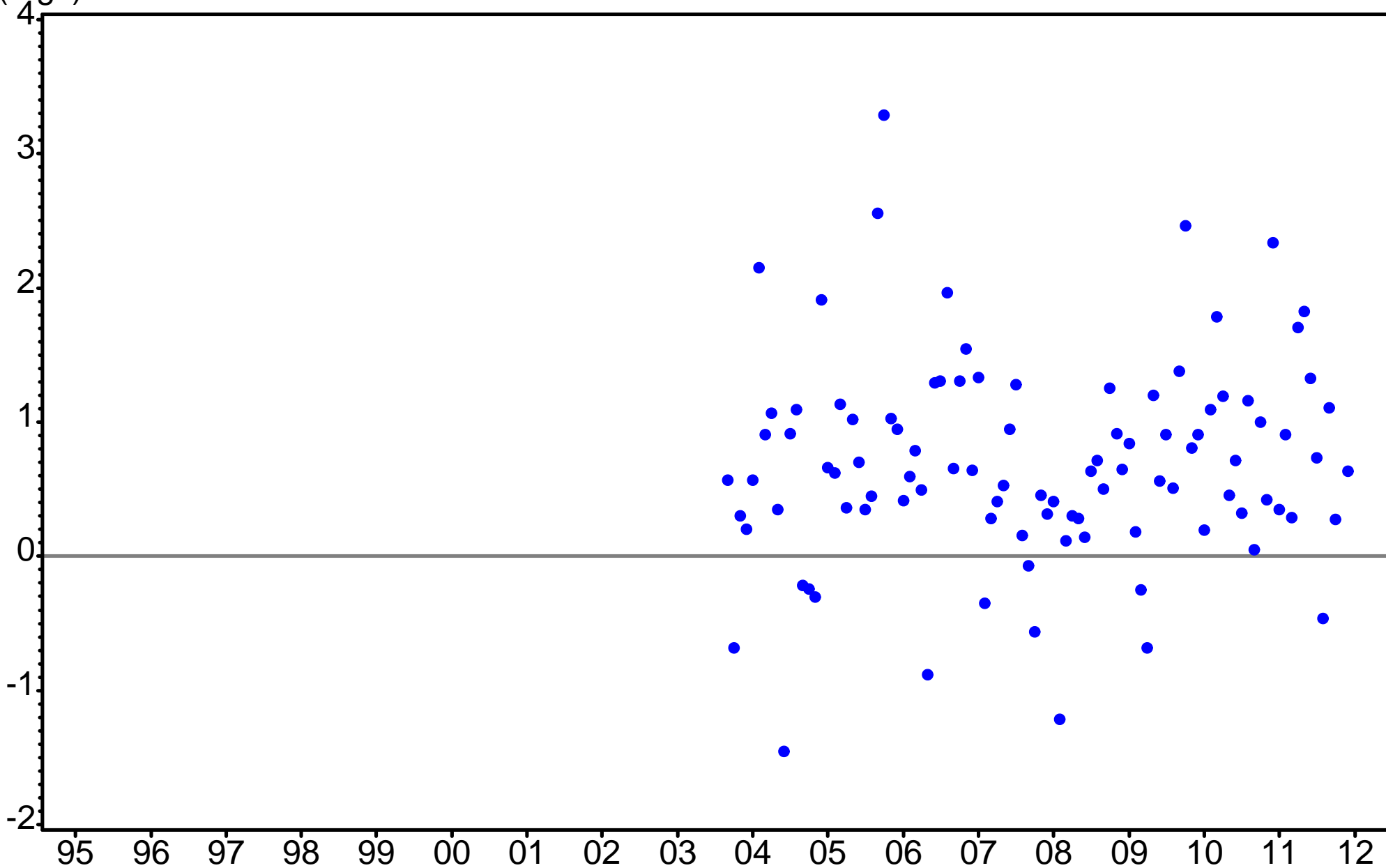
Estero Bay Trends Appendix - Display 747
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23889	.00383069	0.060263	-0.1143

Estero Bay Trends Appendix - Display 748

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(mg/l)



Zero Reference Line Shown

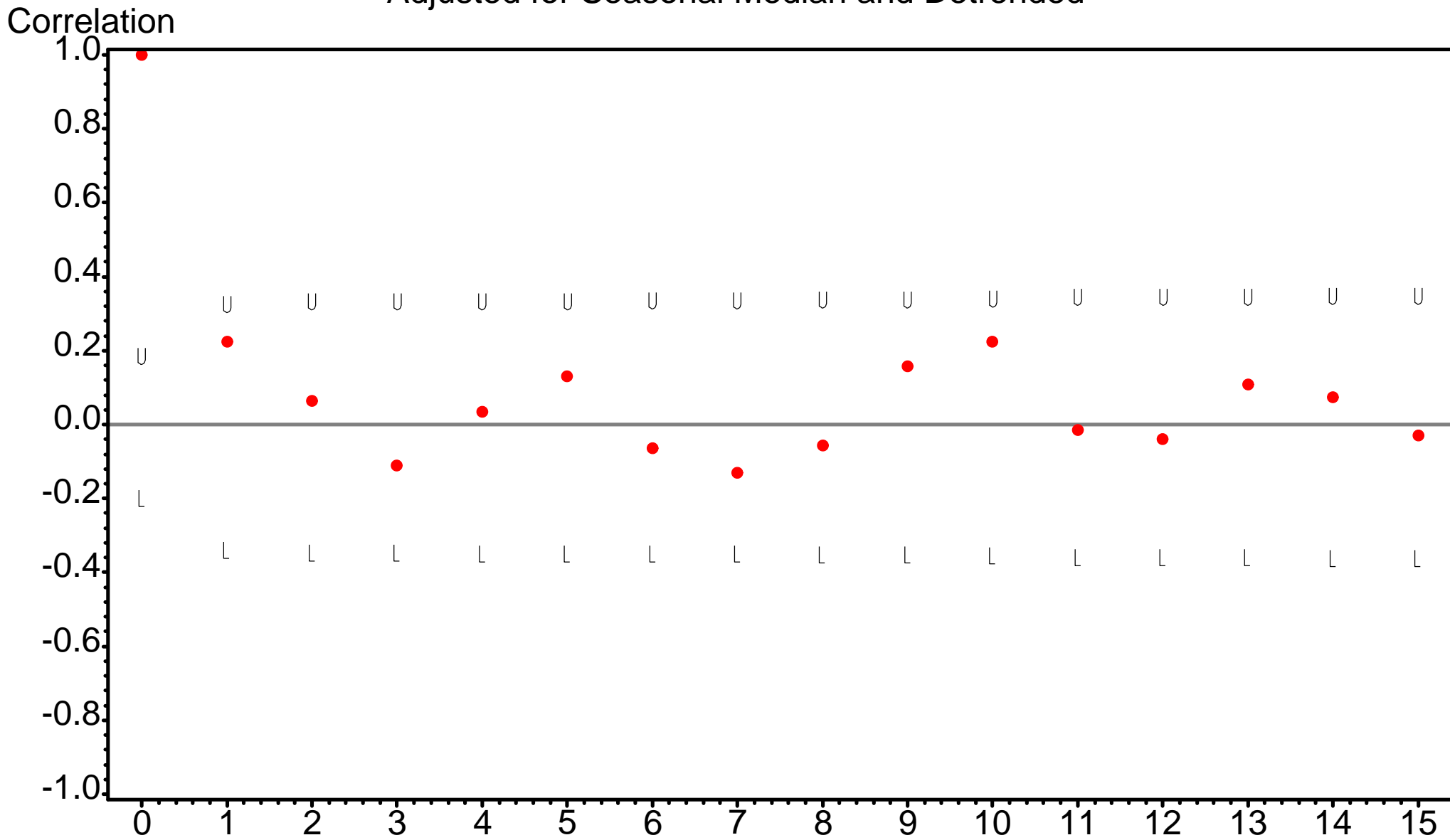
Estero Bay Trends Appendix - Display 749
Autocorrelation Statistics for Surface Dissolved Oxygen in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.224	0.167	0.333	-0.333
2	0.063	0.169	0.339	-0.339
3	-0.110	0.170	0.339	-0.339
4	0.034	0.170	0.341	-0.341
5	0.131	0.170	0.341	-0.341
6	-0.065	0.171	0.343	-0.343
7	-0.130	0.172	0.343	-0.343
8	-0.057	0.172	0.345	-0.345
9	0.158	0.173	0.345	-0.345
10	0.225	0.174	0.348	-0.348
11	-0.014	0.177	0.353	-0.353
12	-0.040	0.177	0.353	-0.353
13	0.109	0.177	0.353	-0.353
14	0.075	0.177	0.355	-0.355
15	-0.030	0.178	0.355	-0.355

Estero Bay Trends Appendix - Display 750

Correlogram for Surface Dissolved Oxygen in Estero Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

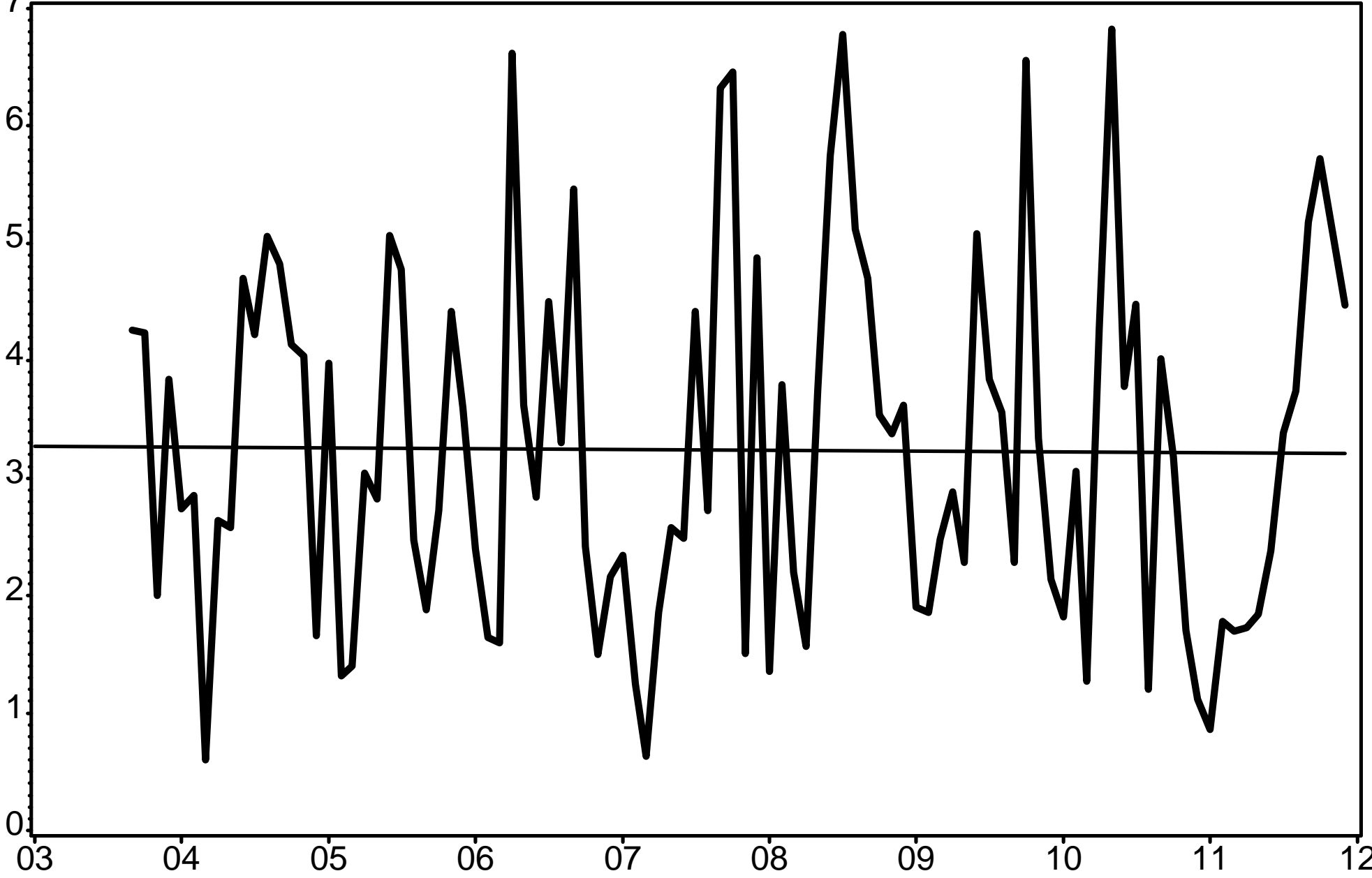
Estero Bay Trends Appendix - Display 751

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Estero Bay

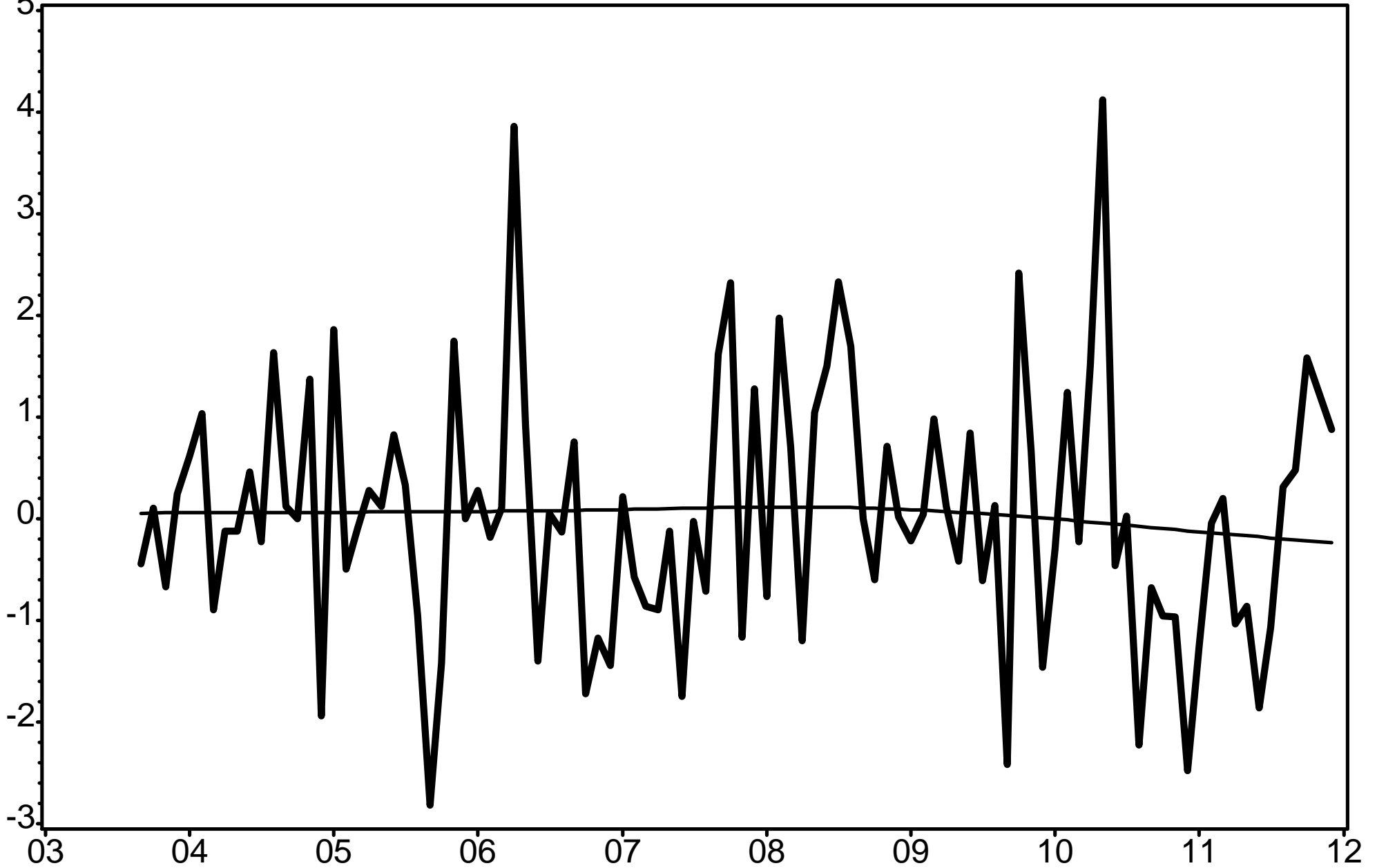
Not Adjusted for Seasonal Medians

DSI_mgl
(mg/L)



Estero Bay Trends Appendix - Display 752
Monthly Data Time Series
for Surface Dissolved Silica (as SiO₂) in Estero Bay
Adjusted for Seasonal Medians

Adjusted
DSI_mgl
(mg/L)

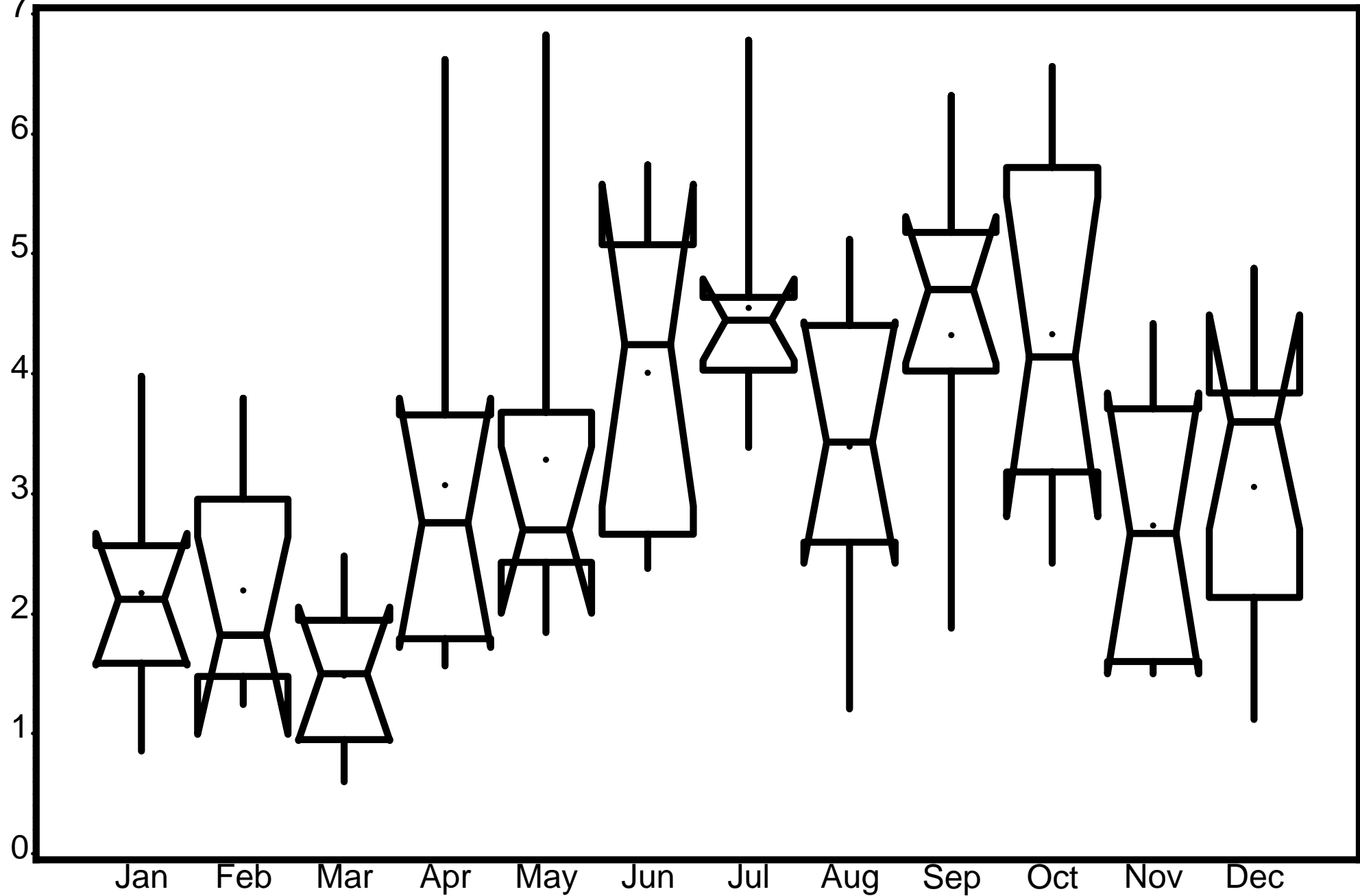


Estero Bay Trends Appendix - Display 753

Seasonal Univariate Statistics

for Surface Dissolved Silica (as SiO₂) in Estero Bay

DSI_mgl
(mg/L)



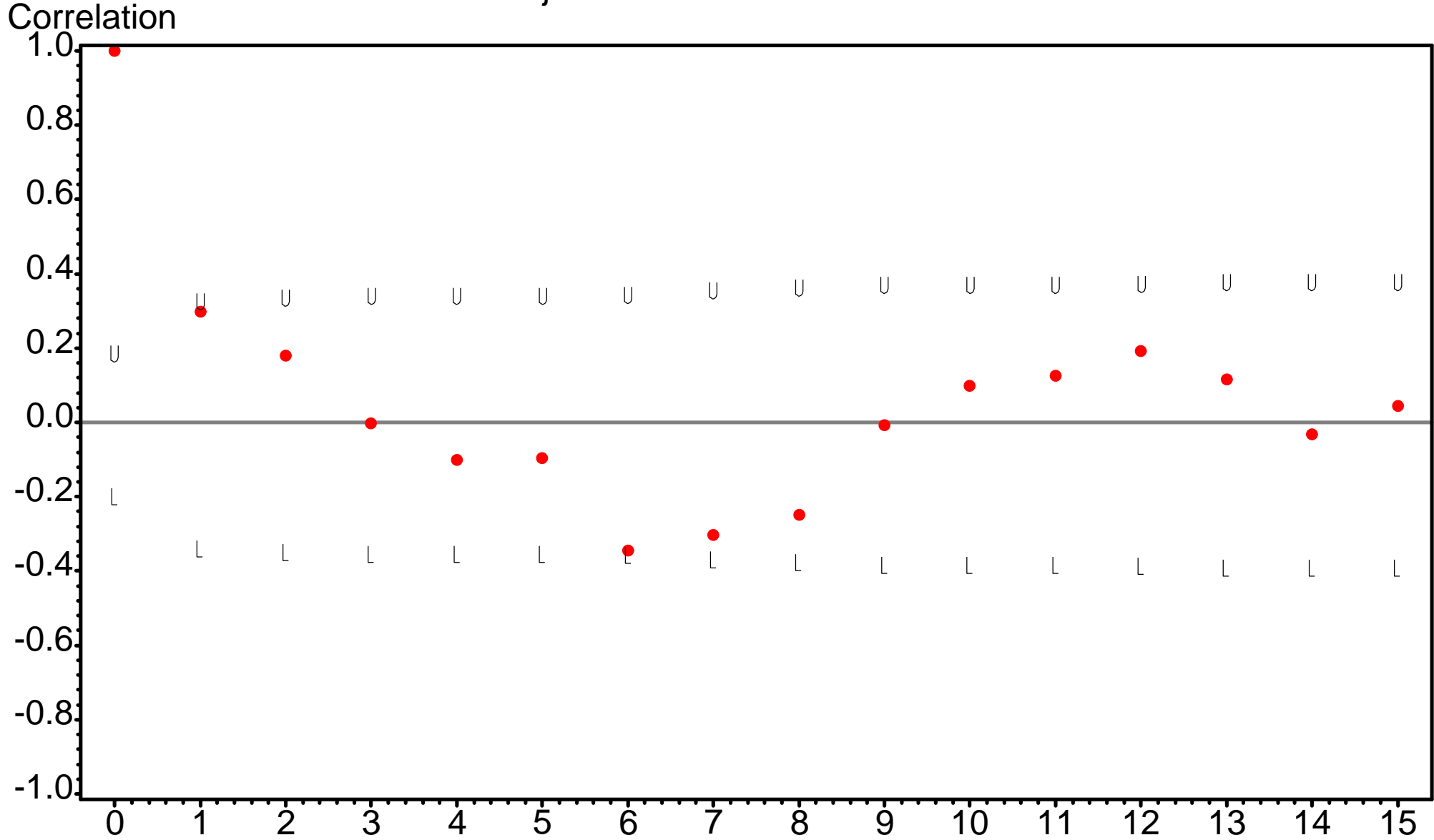
Estero Bay Trends Appendix - Display 754
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Estero Bay

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.299	0.167	0.333	-0.333
2	0.180	0.172	0.343	-0.343
3	-0.003	0.173	0.347	-0.347
4	-0.102	0.173	0.347	-0.347
5	-0.097	0.174	0.348	-0.348
6	-0.344	0.174	0.349	-0.349
7	-0.304	0.181	0.361	-0.361
8	-0.249	0.185	0.370	-0.370
9	-0.008	0.188	0.377	-0.377
10	0.099	0.188	0.377	-0.377
11	0.125	0.189	0.377	-0.377
12	0.192	0.190	0.379	-0.379
13	0.115	0.191	0.383	-0.383
14	-0.033	0.192	0.384	-0.384
15	0.044	0.192	0.384	-0.384

Estero Bay Trends Appendix - Display 755

Correlogram for Surface Dissolved Silica (as SiO₂) in Estero Bay

Unadjusted for Seasonal Median



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 756
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Estero Bay
Unadjusted for Seasonal Medians

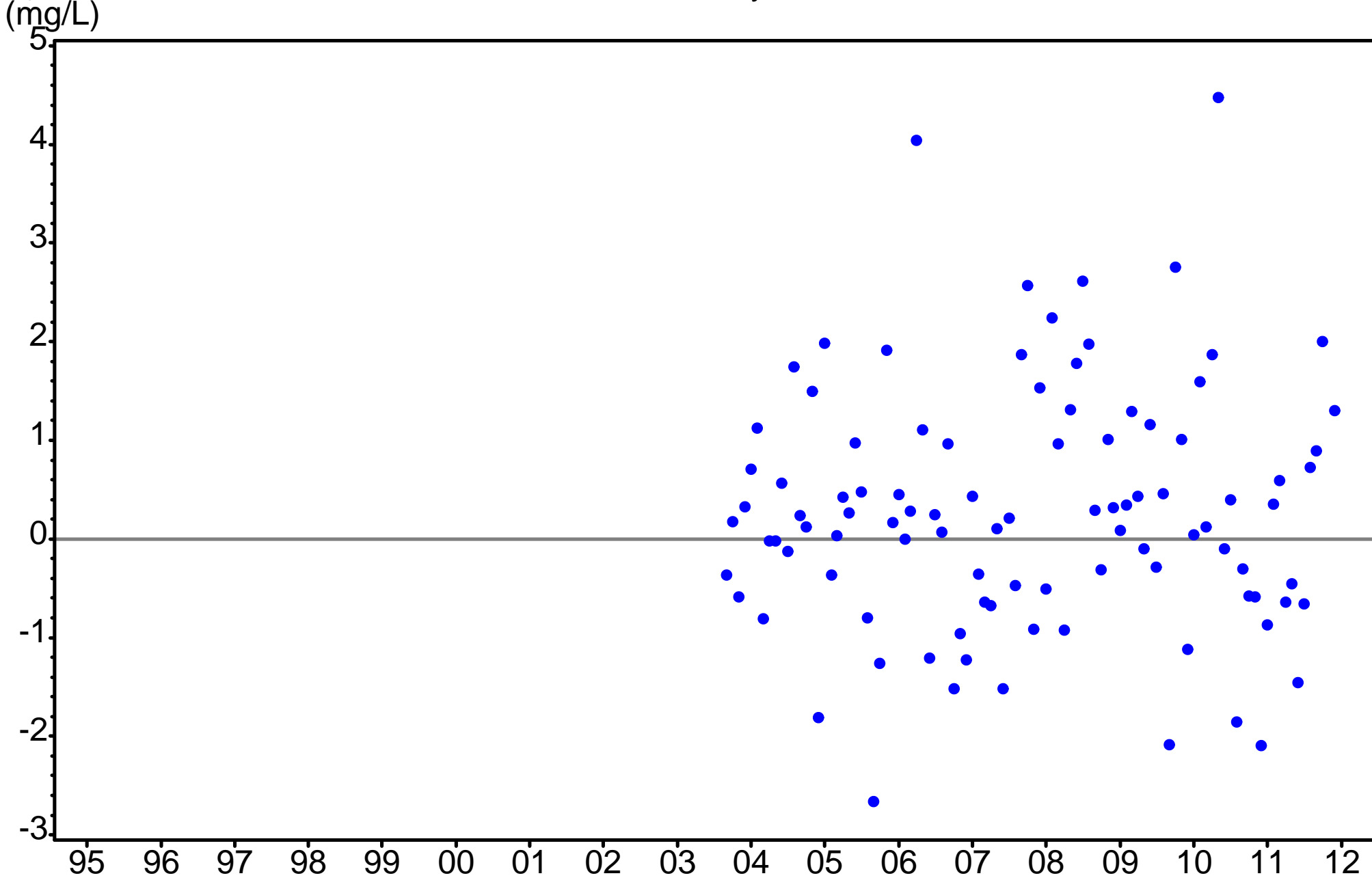
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.038	0.578	0.578	-0.039

Estero Bay Trends Appendix - Display 757
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.072222	0.39504	0.29248	-0.043143

Estero Bay Trends Appendix - Display 758

Time Series Plot of Surface Dissolved Silica (as SiO₂) Data Adjusted for Season and Detrended
Adjusted Estero Bay



Zero Reference Line Shown

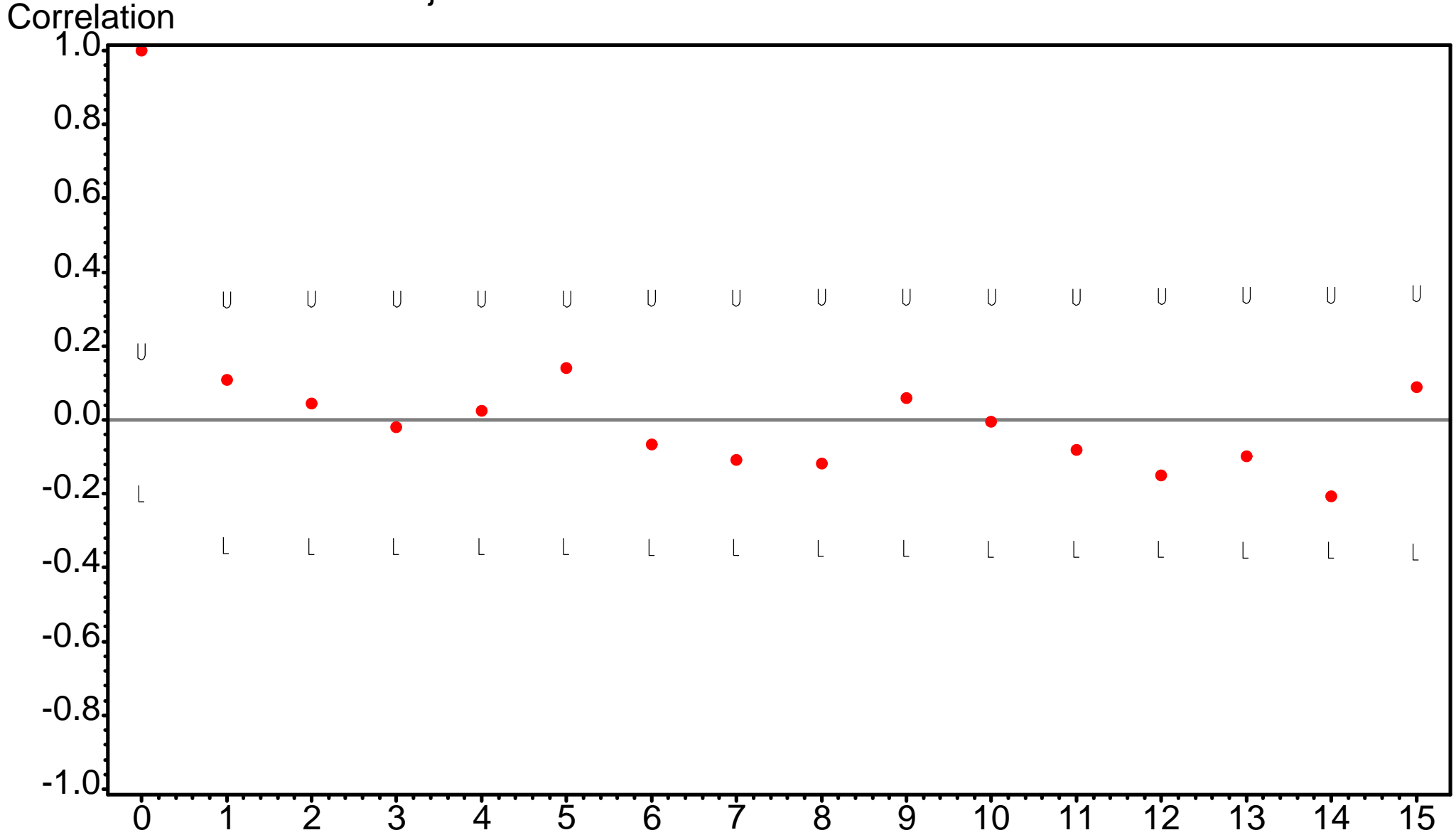
Estero Bay Trends Appendix - Display 759
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Silica (as SiO₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.108	0.167	0.333	-0.333
2	0.044	0.167	0.335	-0.335
3	-0.020	0.167	0.335	-0.335
4	0.025	0.167	0.335	-0.335
5	0.141	0.167	0.335	-0.335
6	-0.067	0.169	0.337	-0.337
7	-0.108	0.169	0.338	-0.338
8	-0.119	0.169	0.339	-0.339
9	0.059	0.170	0.340	-0.340
10	-0.006	0.170	0.341	-0.341
11	-0.080	0.170	0.341	-0.341
12	-0.149	0.171	0.342	-0.342
13	-0.099	0.172	0.344	-0.344
14	-0.208	0.173	0.345	-0.345
15	0.089	0.175	0.350	-0.350

Estero Bay Trends Appendix - Display 760

Correlogram for Surface Dissolved Silica (as SiO₂) in Estero Bay

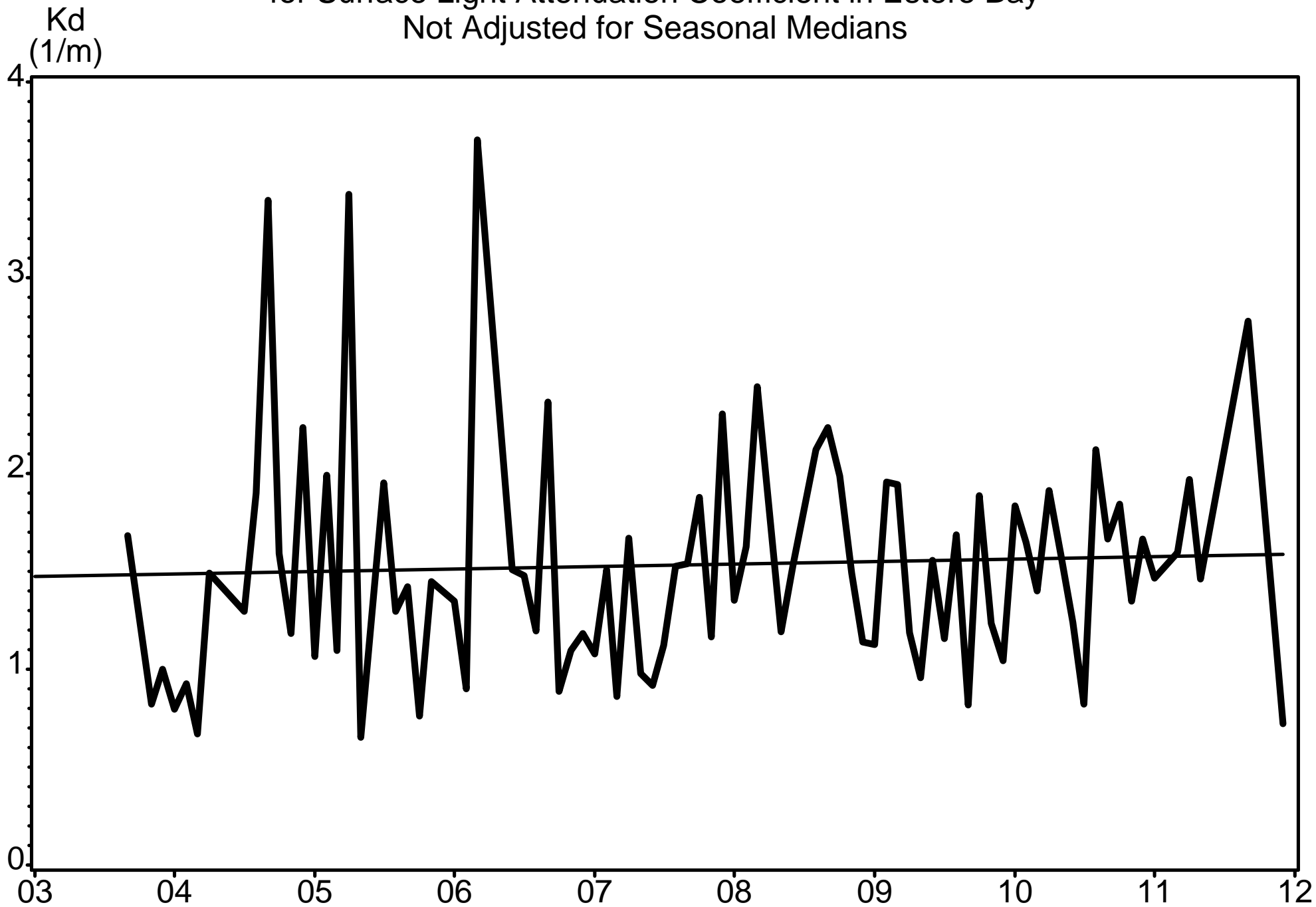
Adjusted for Seasonal Median and Detrended



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 761
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Estero Bay
Not Adjusted for Seasonal Medians



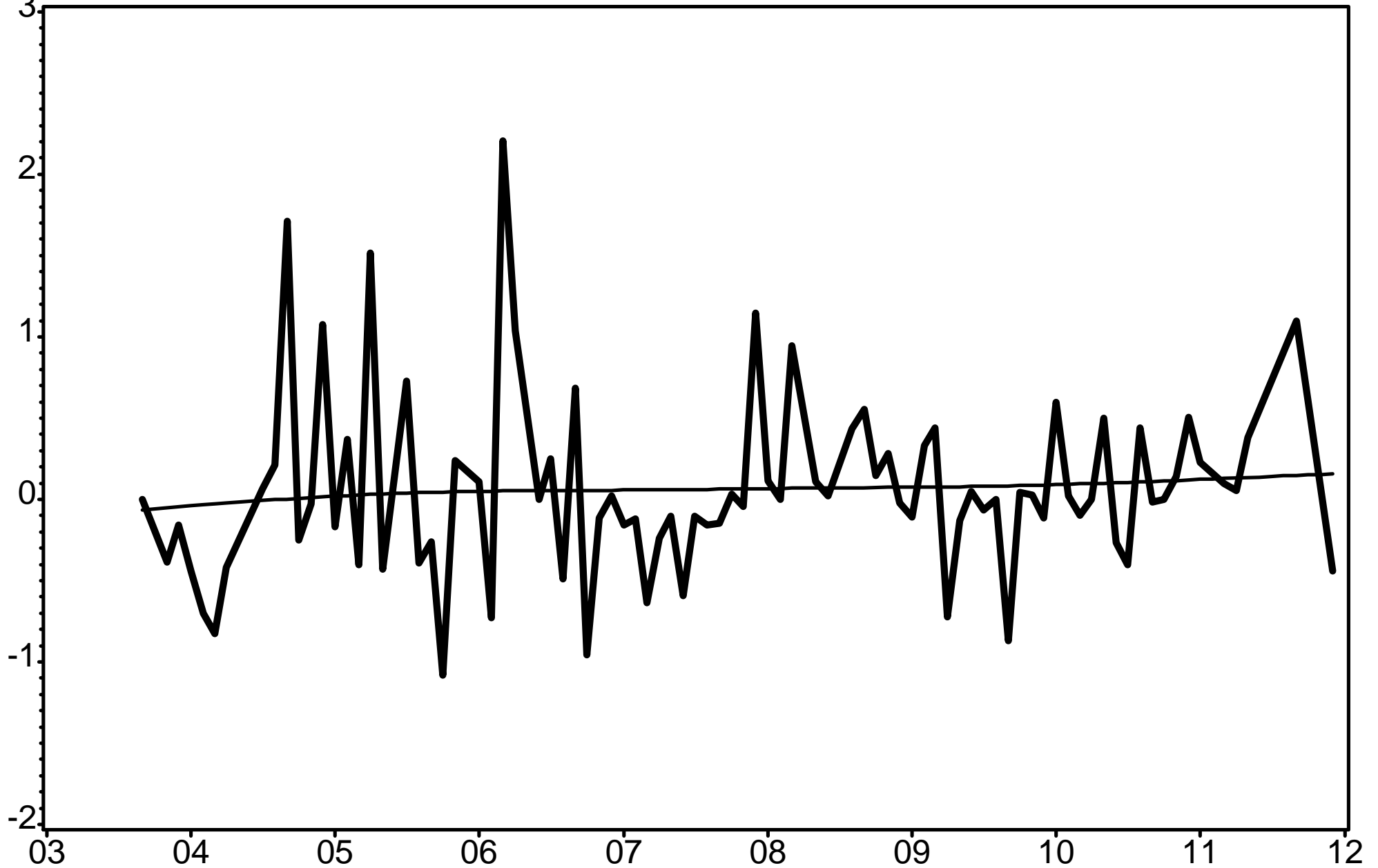
Estero Bay Trends Appendix - Display 762

Monthly Data Time Series

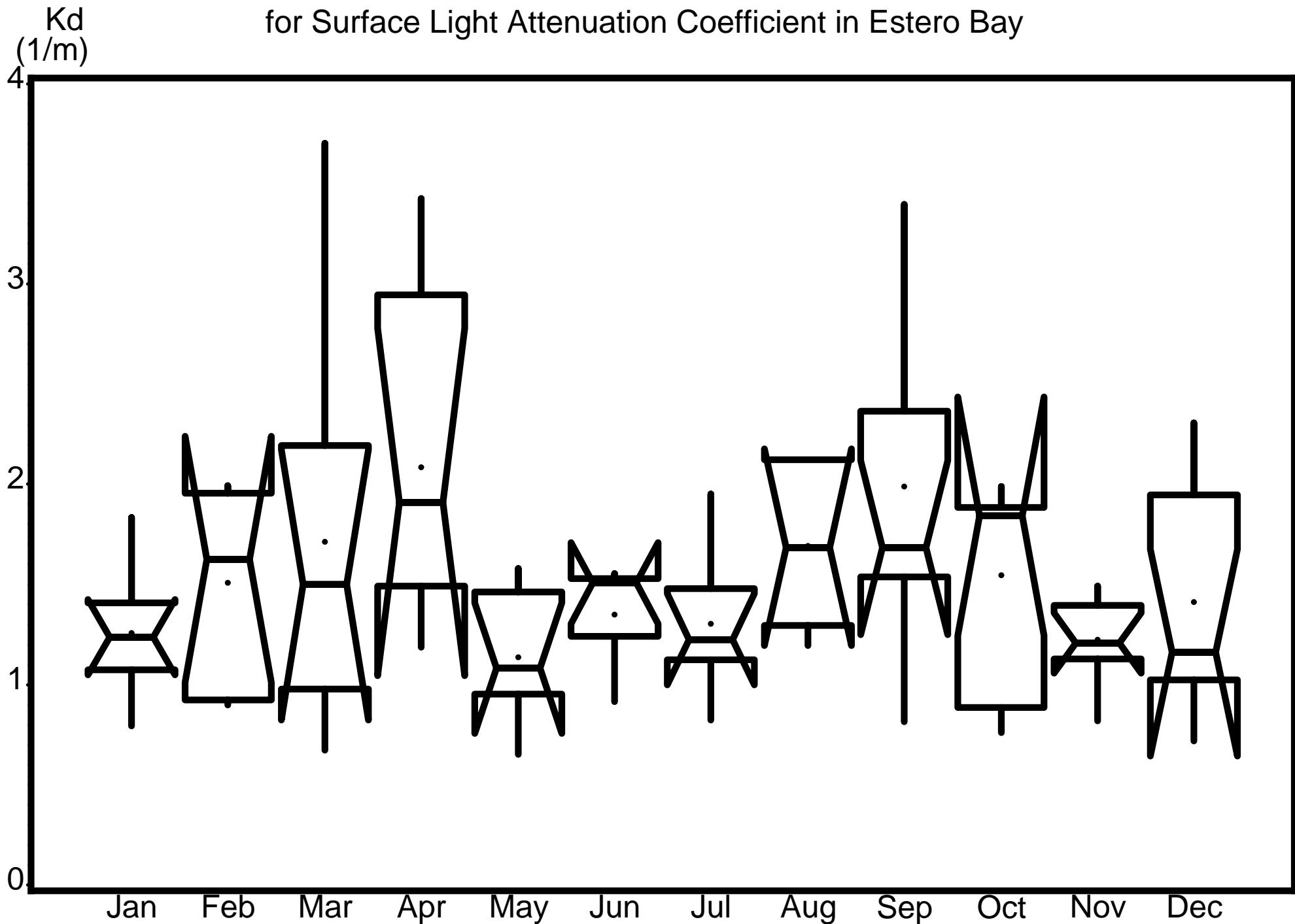
for Surface Light Attenuation Coefficient in Estero Bay

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Estero Bay Trends Appendix - Display 763
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Estero Bay



Estero Bay Trends Appendix - Display 764

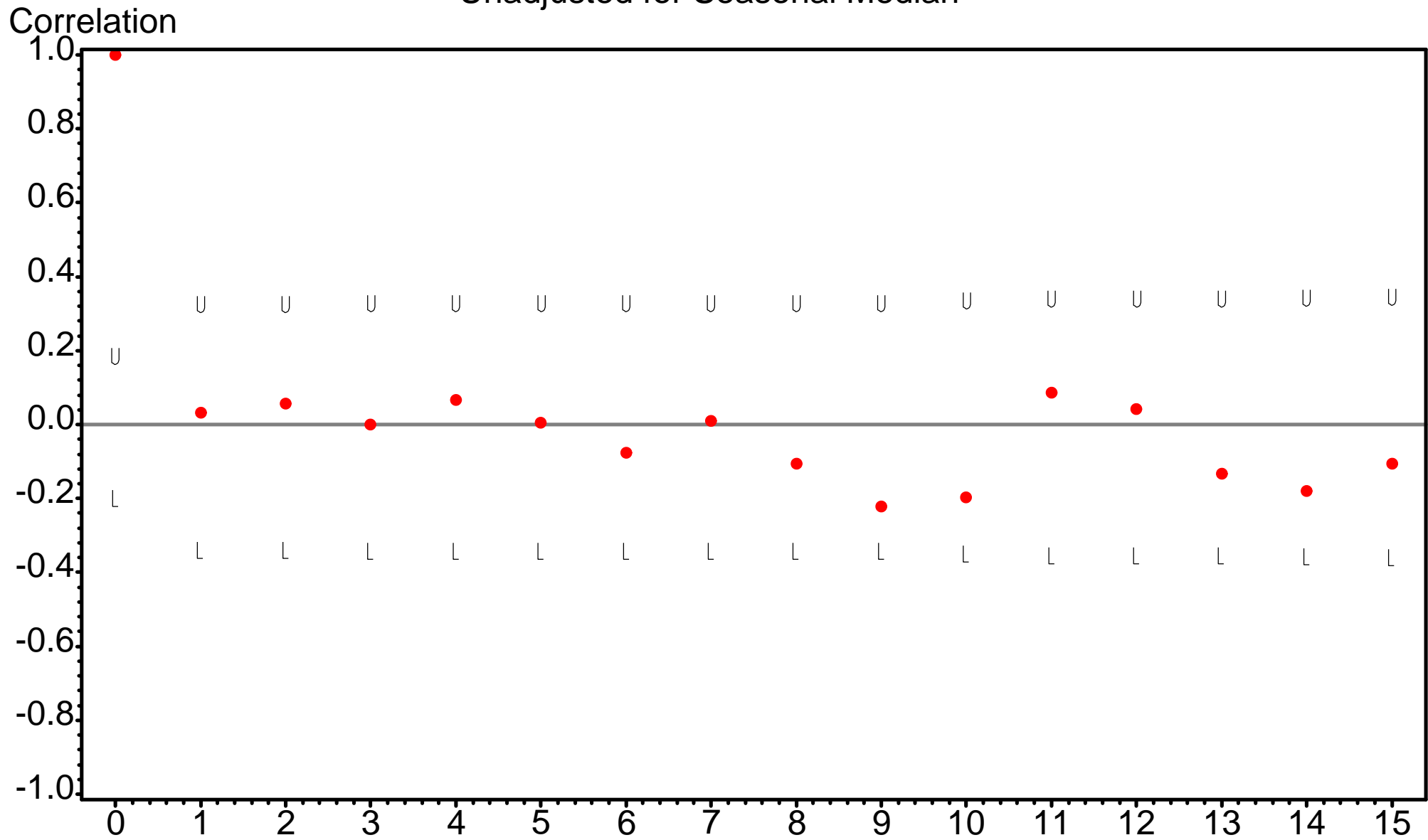
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Estero Bay

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.031	0.167	0.333	-0.333
2	0.057	0.167	0.333	-0.333
3	-0.001	0.167	0.334	-0.334
4	0.067	0.167	0.334	-0.334
5	0.006	0.167	0.334	-0.334
6	-0.076	0.167	0.334	-0.334
7	0.009	0.167	0.335	-0.335
8	-0.107	0.167	0.335	-0.335
9	-0.221	0.168	0.336	-0.336
10	-0.196	0.171	0.342	-0.342
11	0.085	0.173	0.346	-0.346
12	0.041	0.173	0.346	-0.346
13	-0.134	0.173	0.347	-0.347
14	-0.179	0.174	0.349	-0.349
15	-0.106	0.176	0.352	-0.352

Estero Bay Trends Appendix - Display 765

Correlogram for Surface Light Attenuation Coefficient in Estero Bay

Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Estero Bay Trends Appendix - Display 766
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Estero Bay
Unadjusted for Seasonal Medians

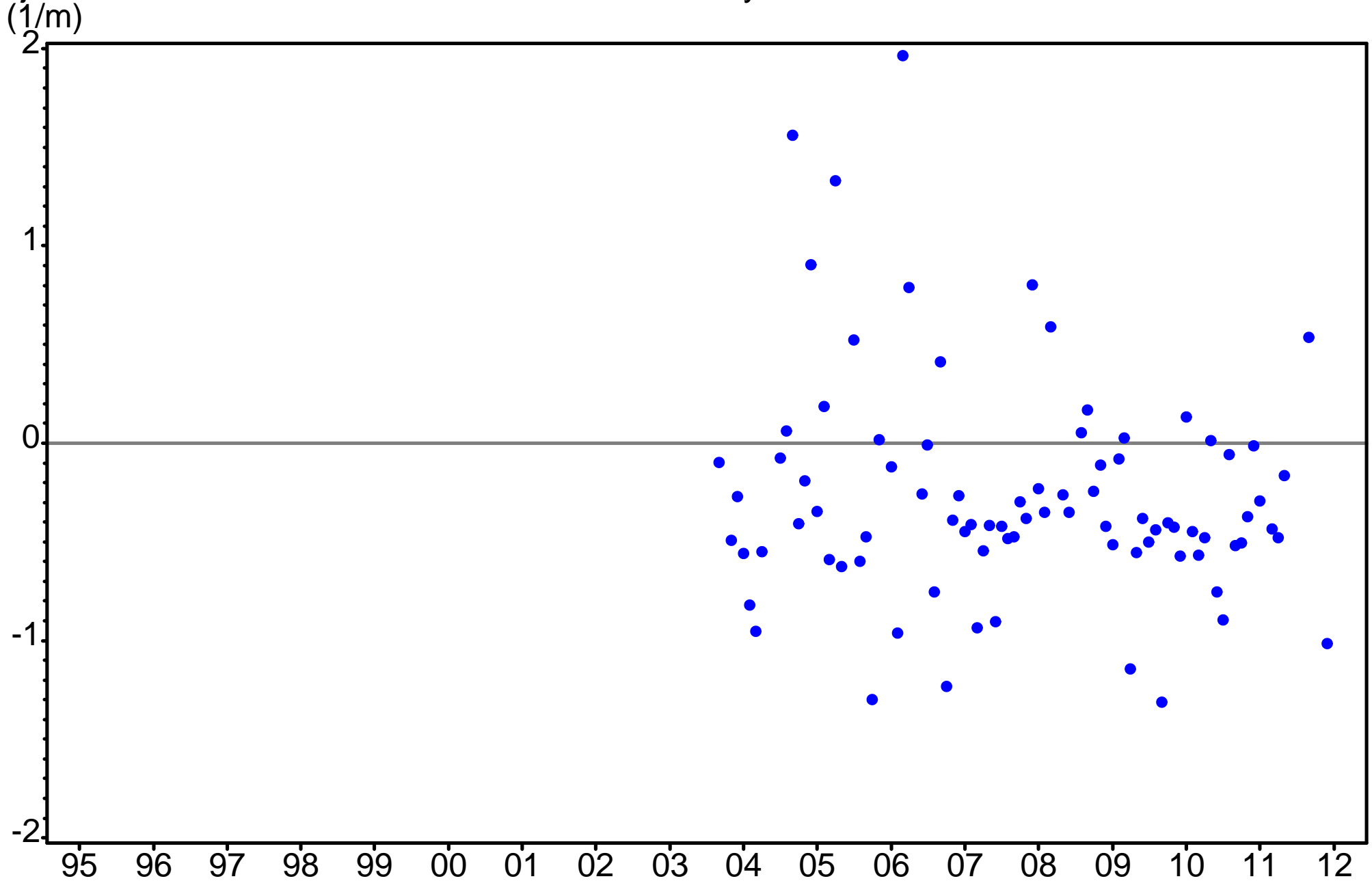
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.116	0.115	0.115	0.039

Estero Bay Trends Appendix - Display 767
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.20588	0.025227	0.043570	0.0579

Estero Bay Trends Appendix - Display 768

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Estero Bay



Zero Reference Line Shown

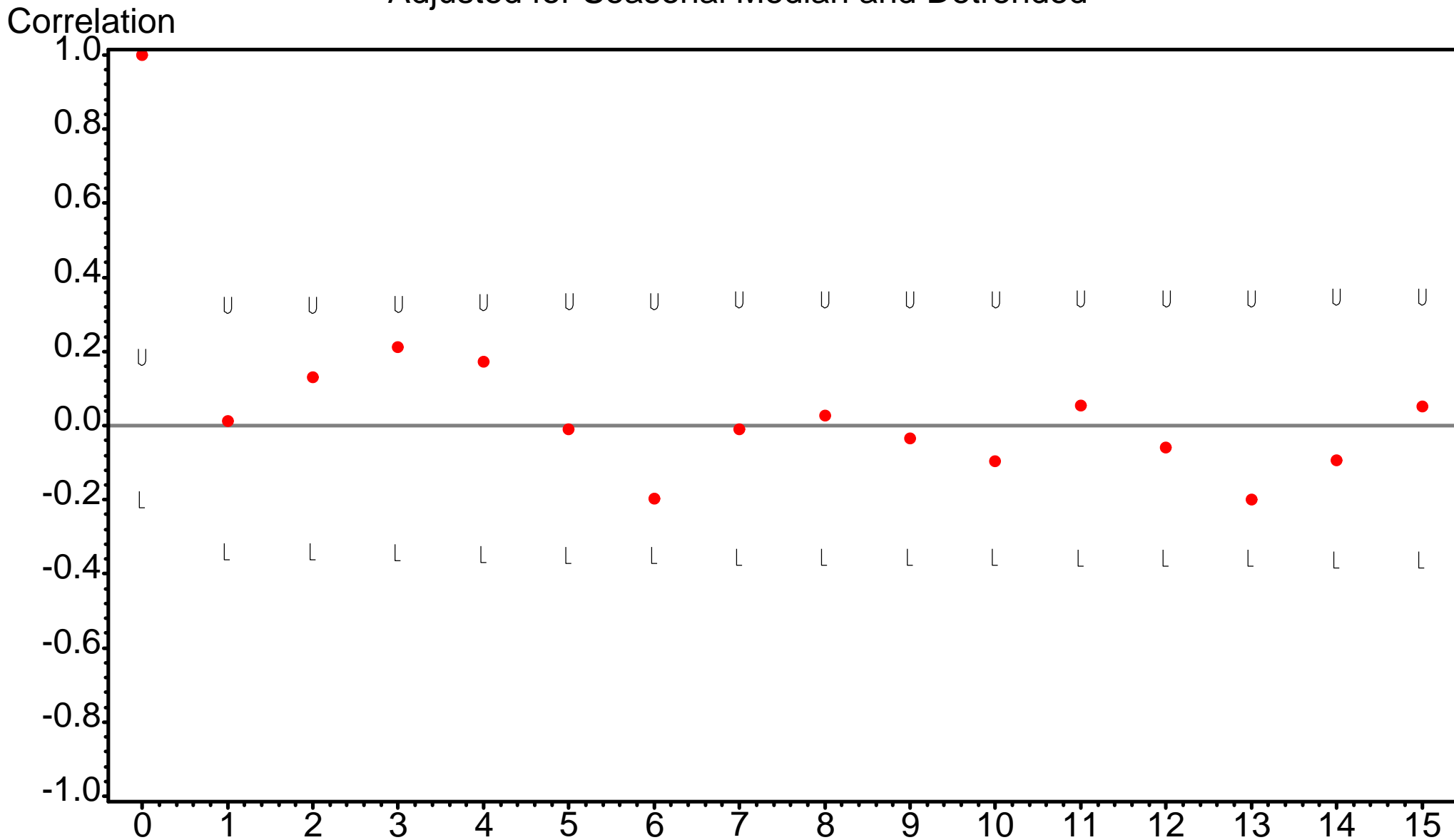
Estero Bay Trends Appendix - Display 769

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.013	0.167	0.333	-0.333
2	0.130	0.167	0.333	-0.333
3	0.212	0.168	0.335	-0.335
4	0.172	0.170	0.340	-0.340
5	-0.009	0.172	0.343	-0.343
6	-0.198	0.172	0.343	-0.343
7	-0.009	0.174	0.348	-0.348
8	0.027	0.174	0.348	-0.348
9	-0.034	0.174	0.348	-0.348
10	-0.097	0.174	0.348	-0.348
11	0.054	0.174	0.349	-0.349
12	-0.058	0.175	0.349	-0.349
13	-0.200	0.175	0.349	-0.349
14	-0.094	0.177	0.354	-0.354
15	0.051	0.177	0.355	-0.355

Estero Bay Trends Appendix - Display 770

Correlogram for Surface Light Attenuation Coefficient in Estero Bay Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

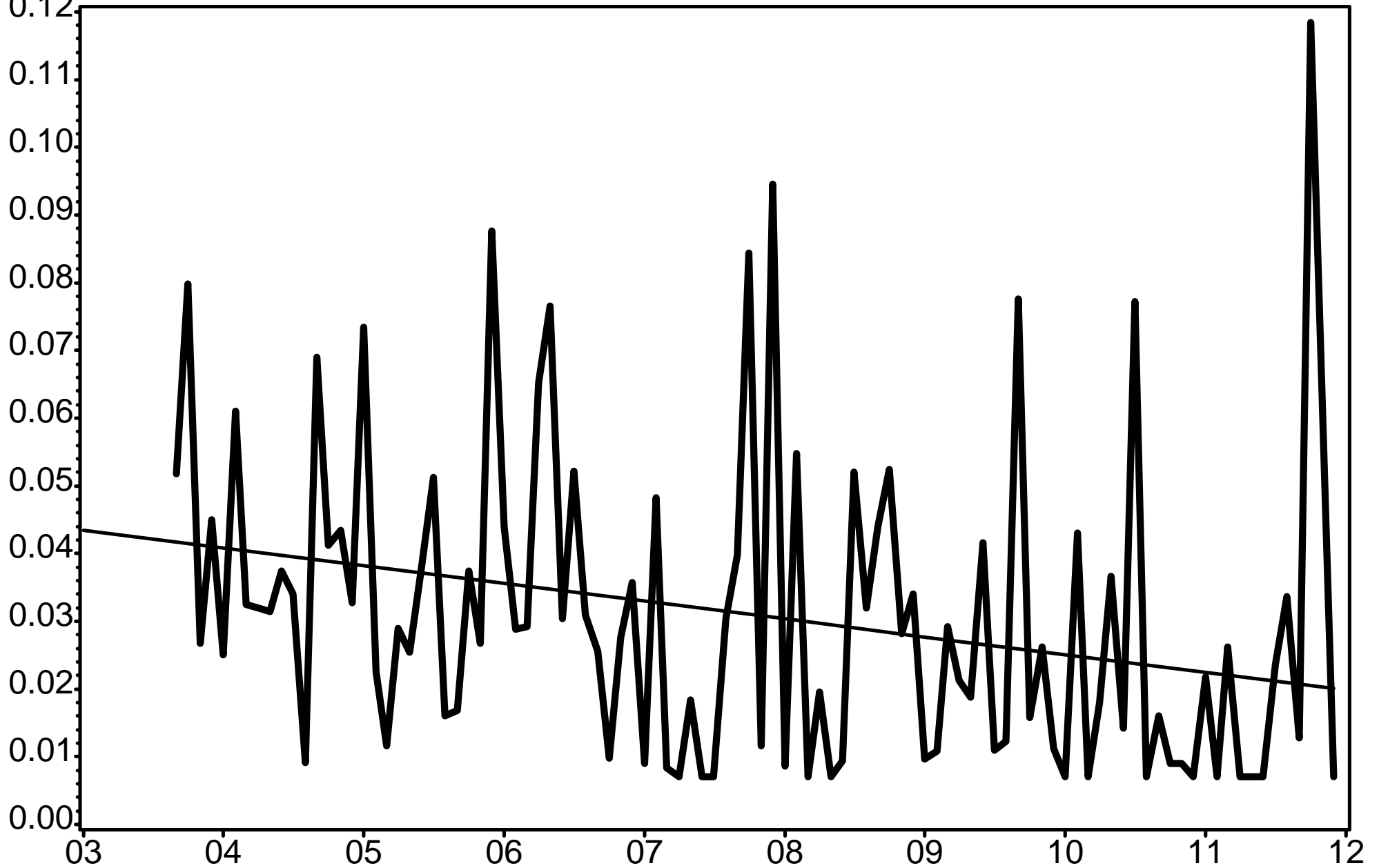
Estero Bay Trends Appendix - Display 771

Monthly Data Time Series

for Surface Ammonia as N Total in Estero Bay

Not Adjusted for Seasonal Medians

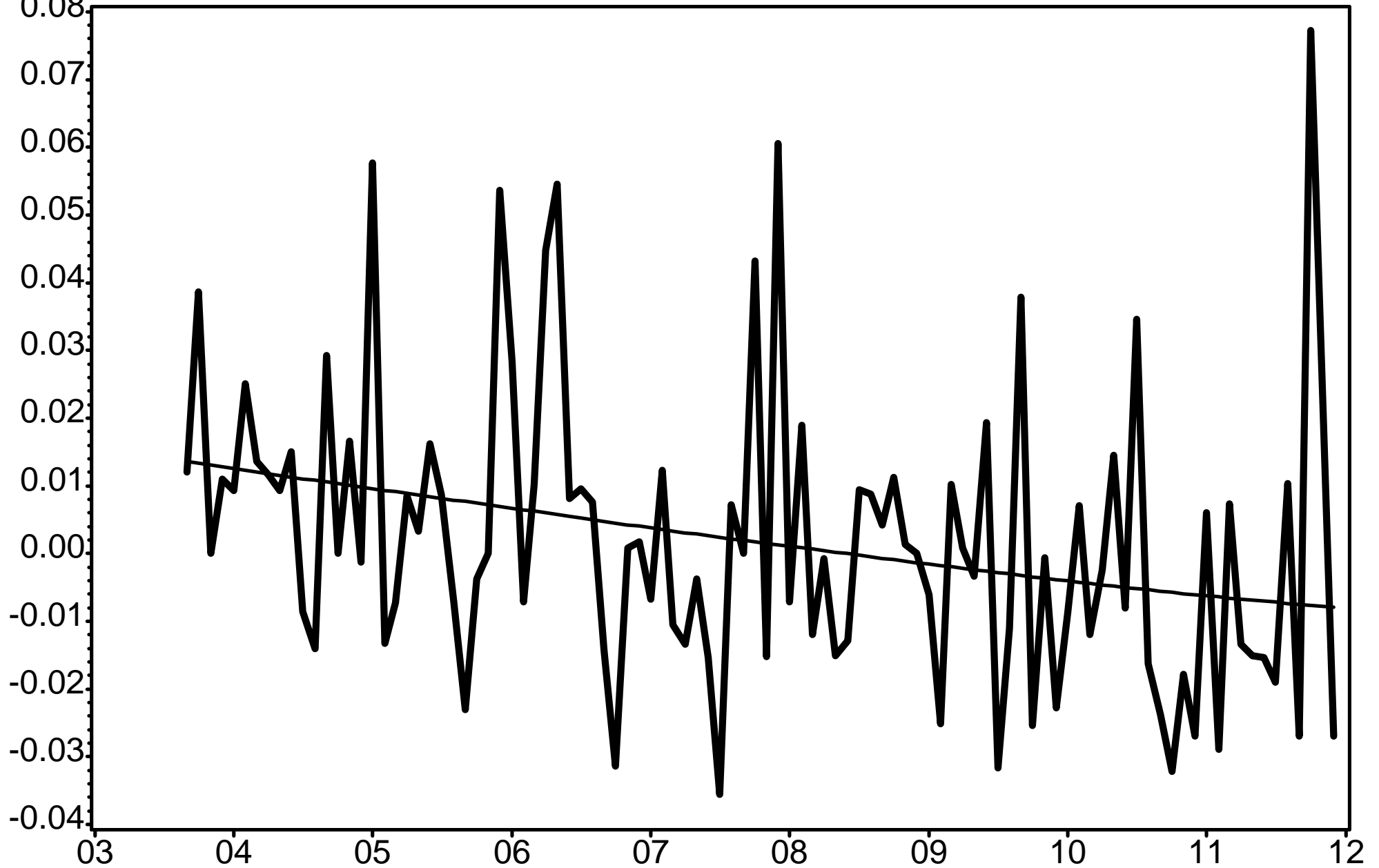
NH₃_mgl
(mg/l)



Estero Bay Trends Appendix - Display 772

Monthly Data Time Series
for Surface Ammonia as N Total in Estero Bay
Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

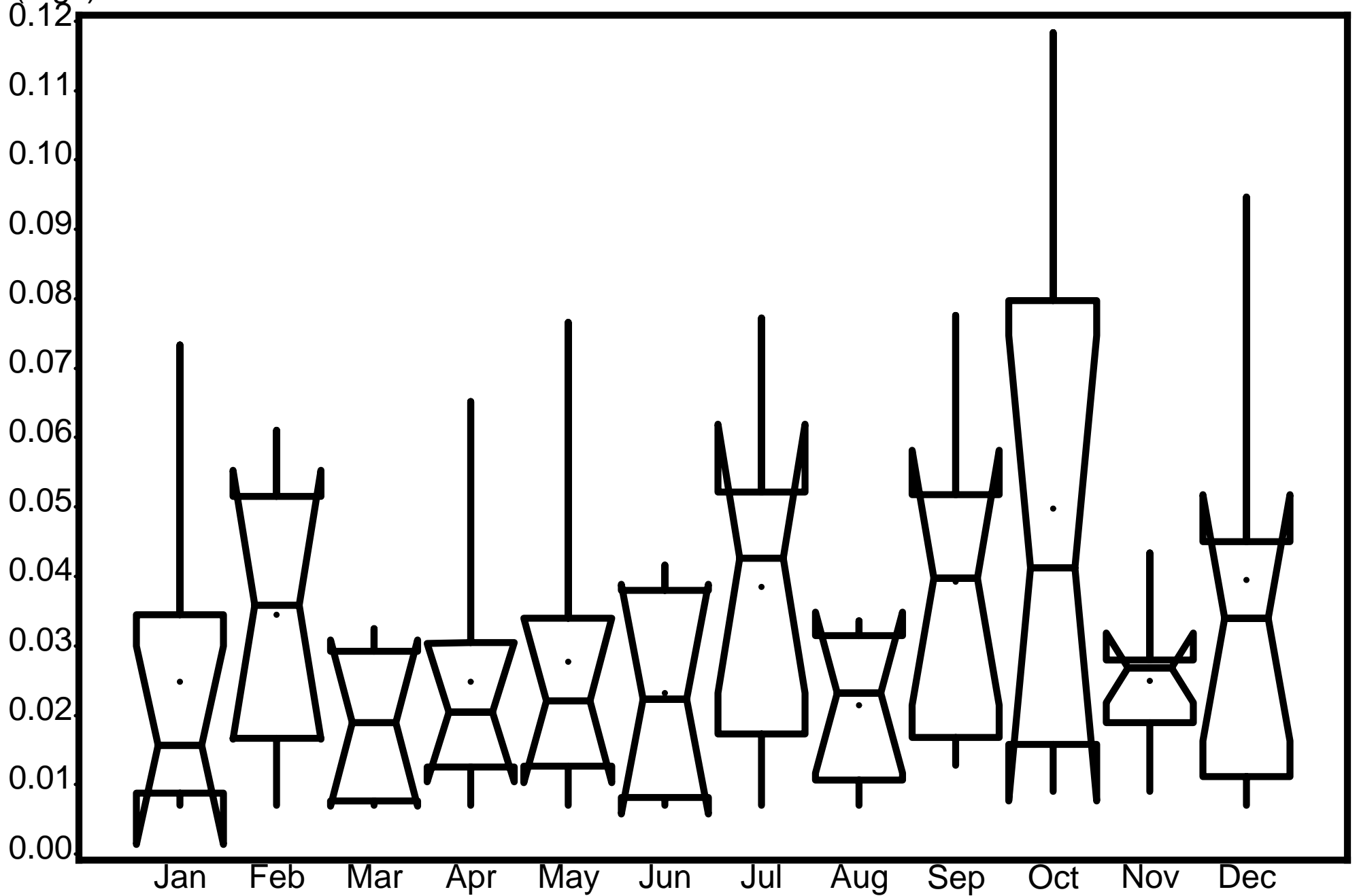


Estero Bay Trends Appendix - Display 773

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Estero Bay

NH3_mgl
(mg/l)



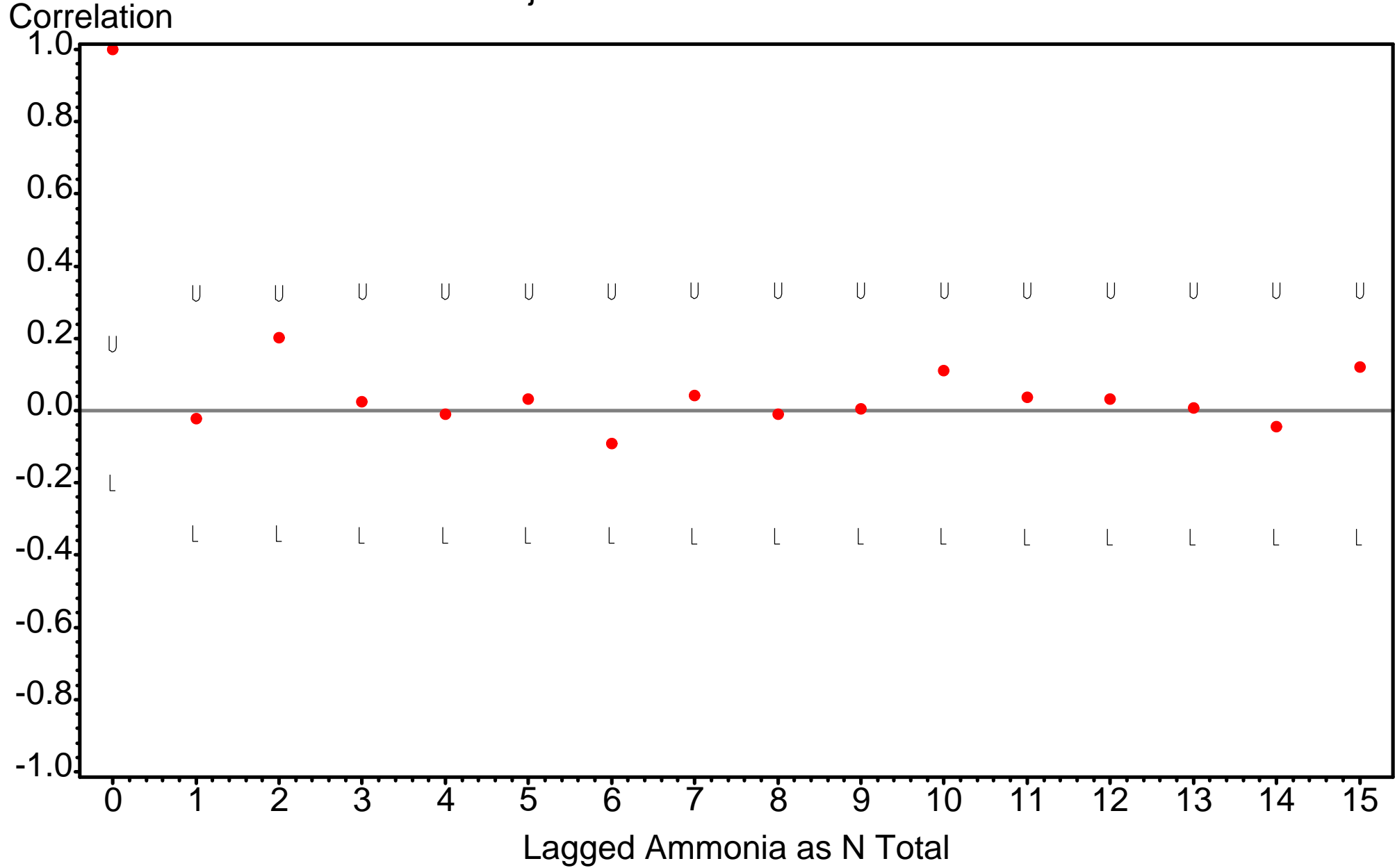
Estero Bay Trends Appendix - Display 774
 Autocorrelation Statistics for Surface Ammonia as N Total in Estero Bay

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.023	0.167	0.333	-0.333
2	0.202	0.167	0.333	-0.333
3	0.025	0.169	0.338	-0.338
4	-0.011	0.169	0.338	-0.338
5	0.033	0.169	0.338	-0.338
6	-0.090	0.169	0.338	-0.338
7	0.042	0.169	0.339	-0.339
8	-0.010	0.170	0.339	-0.339
9	0.006	0.170	0.339	-0.339
10	0.112	0.170	0.339	-0.339
11	0.036	0.170	0.341	-0.341
12	0.031	0.170	0.341	-0.341
13	0.008	0.170	0.341	-0.341
14	-0.045	0.170	0.341	-0.341
15	0.121	0.171	0.341	-0.341

Estero Bay Trends Appendix - Display 775

Correlogram for Surface Ammonia as N Total in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 776
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.27	0	0	-.003

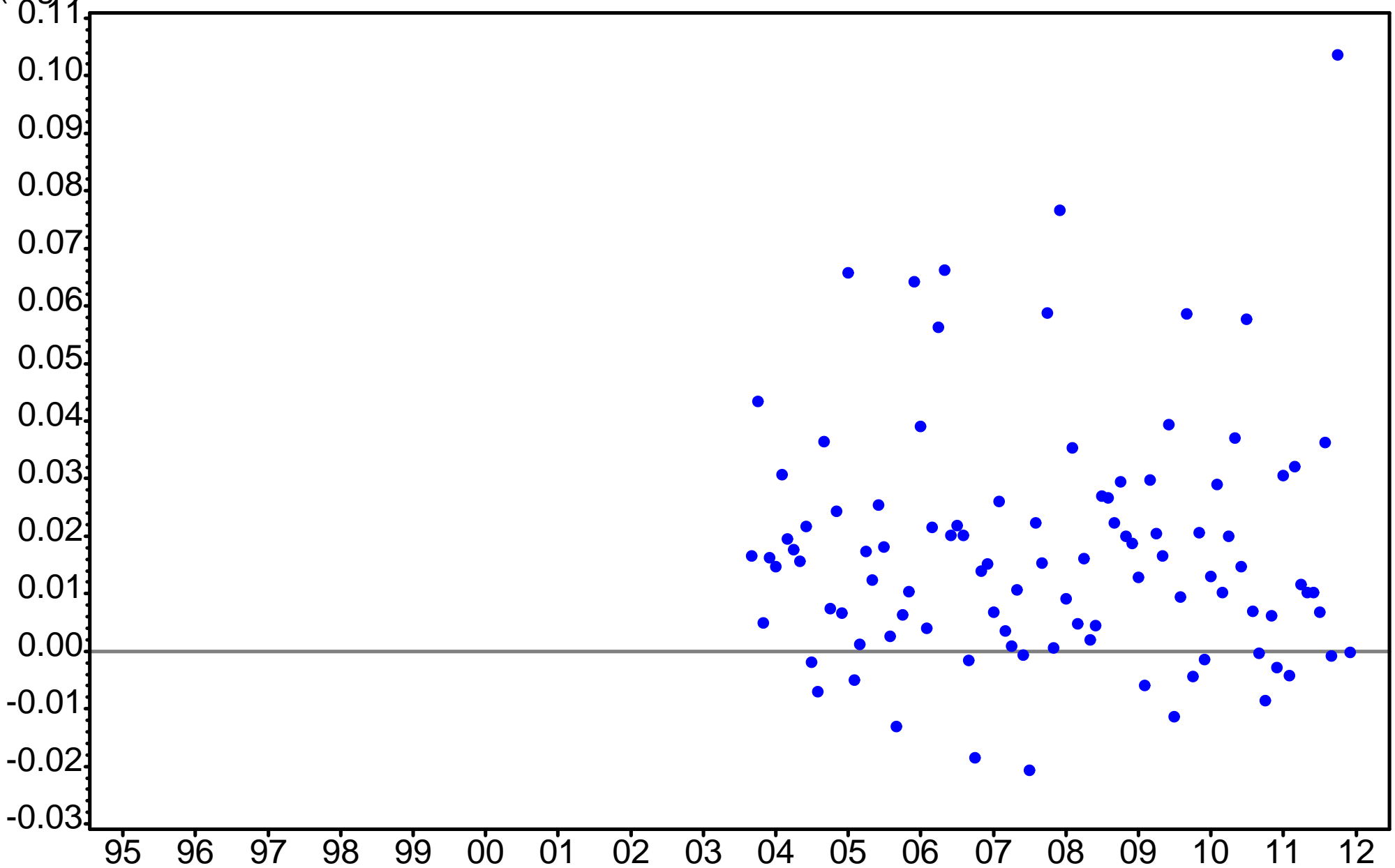
Estero Bay Trends Appendix - Display 777
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.28333	.000548121	0.016955	-.00270833

Estero Bay Trends Appendix - Display 778

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(mg/l)



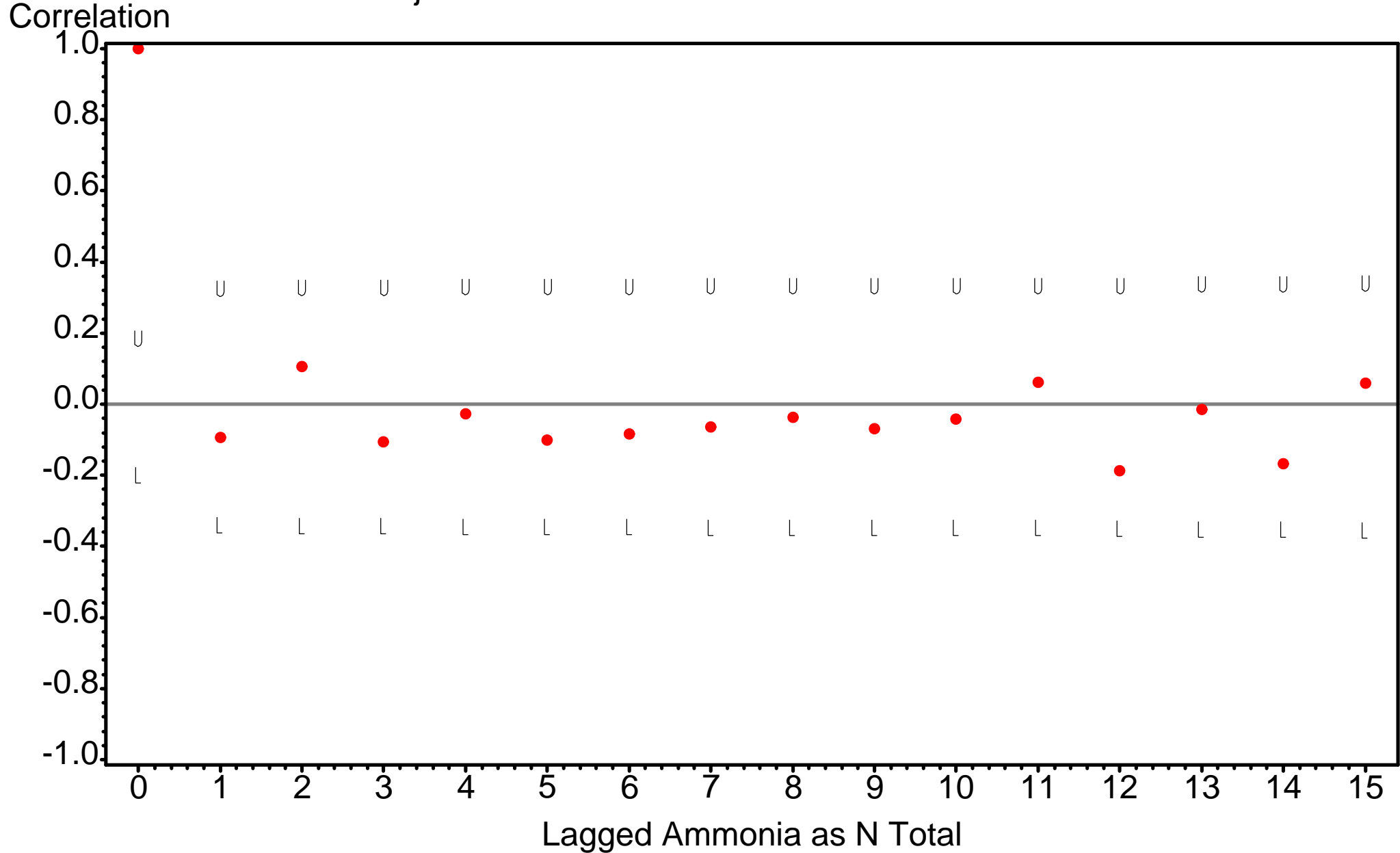
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 779
Autocorrelation Statistics for Surface Ammonia as N Total in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.094	0.167	0.333	-0.333
2	0.107	0.167	0.334	-0.334
3	-0.107	0.168	0.336	-0.336
4	-0.028	0.168	0.337	-0.337
5	-0.101	0.168	0.337	-0.337
6	-0.083	0.169	0.338	-0.338
7	-0.064	0.169	0.339	-0.339
8	-0.038	0.170	0.339	-0.339
9	-0.069	0.170	0.339	-0.339
10	-0.043	0.170	0.340	-0.340
11	0.062	0.170	0.340	-0.340
12	-0.187	0.170	0.341	-0.341
13	-0.014	0.172	0.344	-0.344
14	-0.168	0.172	0.344	-0.344
15	0.058	0.174	0.347	-0.347

Estero Bay Trends Appendix - Display 780

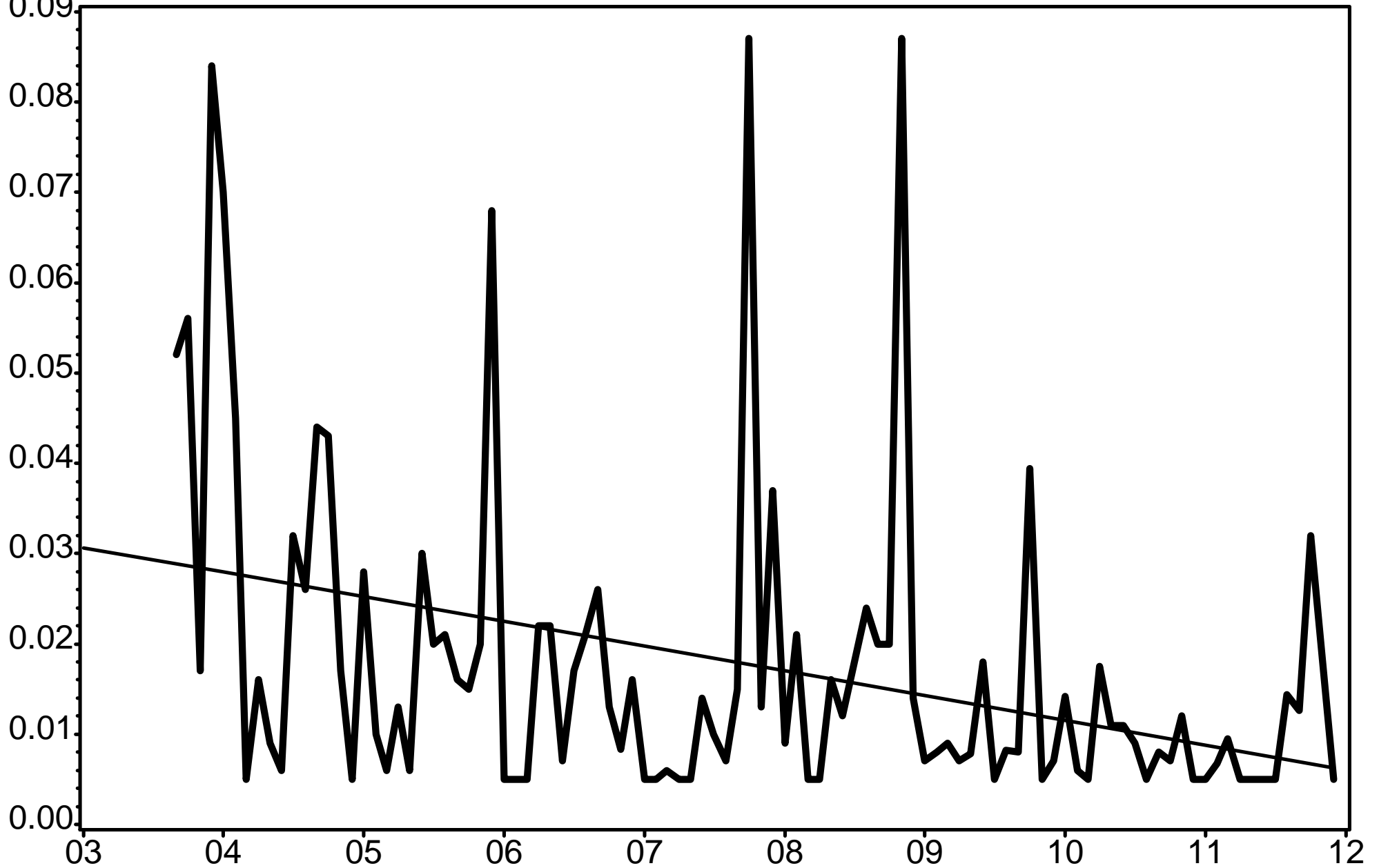
Correlogram for Surface Ammonia as N Total in Estero Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 781
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Not Adjusted for Seasonal Medians

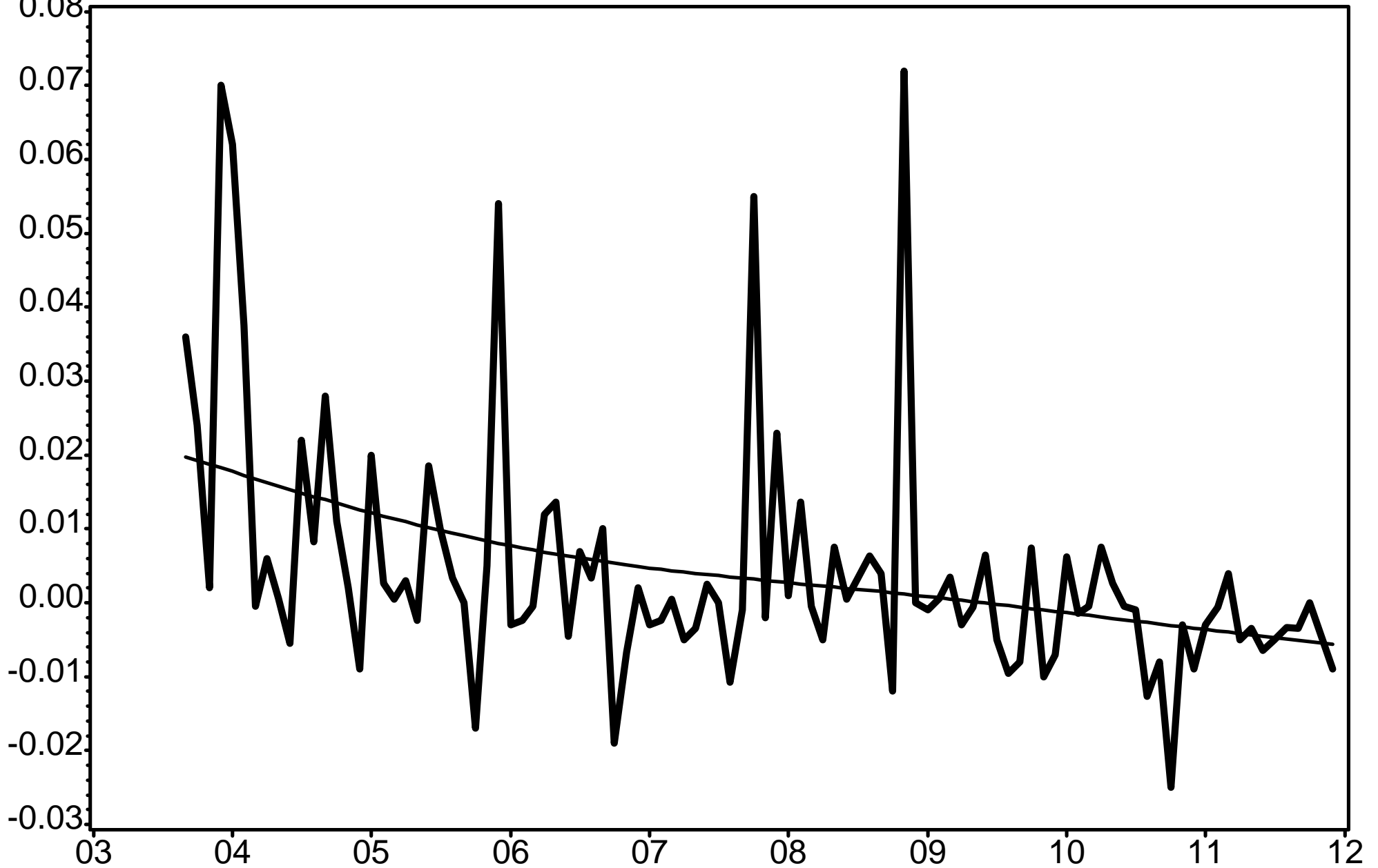
NO23_mgl
(mg/l)



Estero Bay Trends Appendix - Display 782

Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

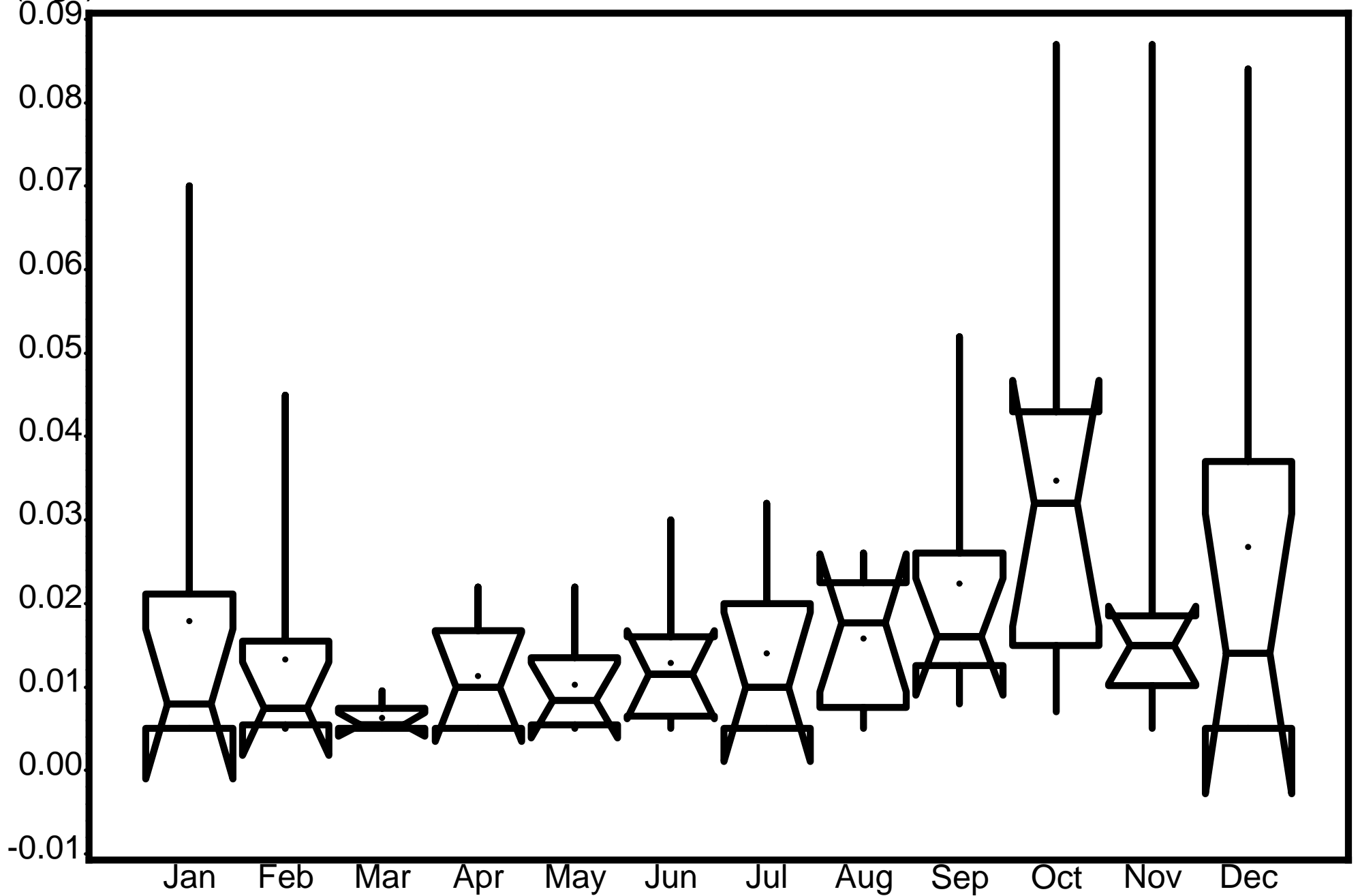


Estero Bay Trends Appendix - Display 783

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

NO23_mgl
(mg/l)



Estero Bay Trends Appendix - Display 784

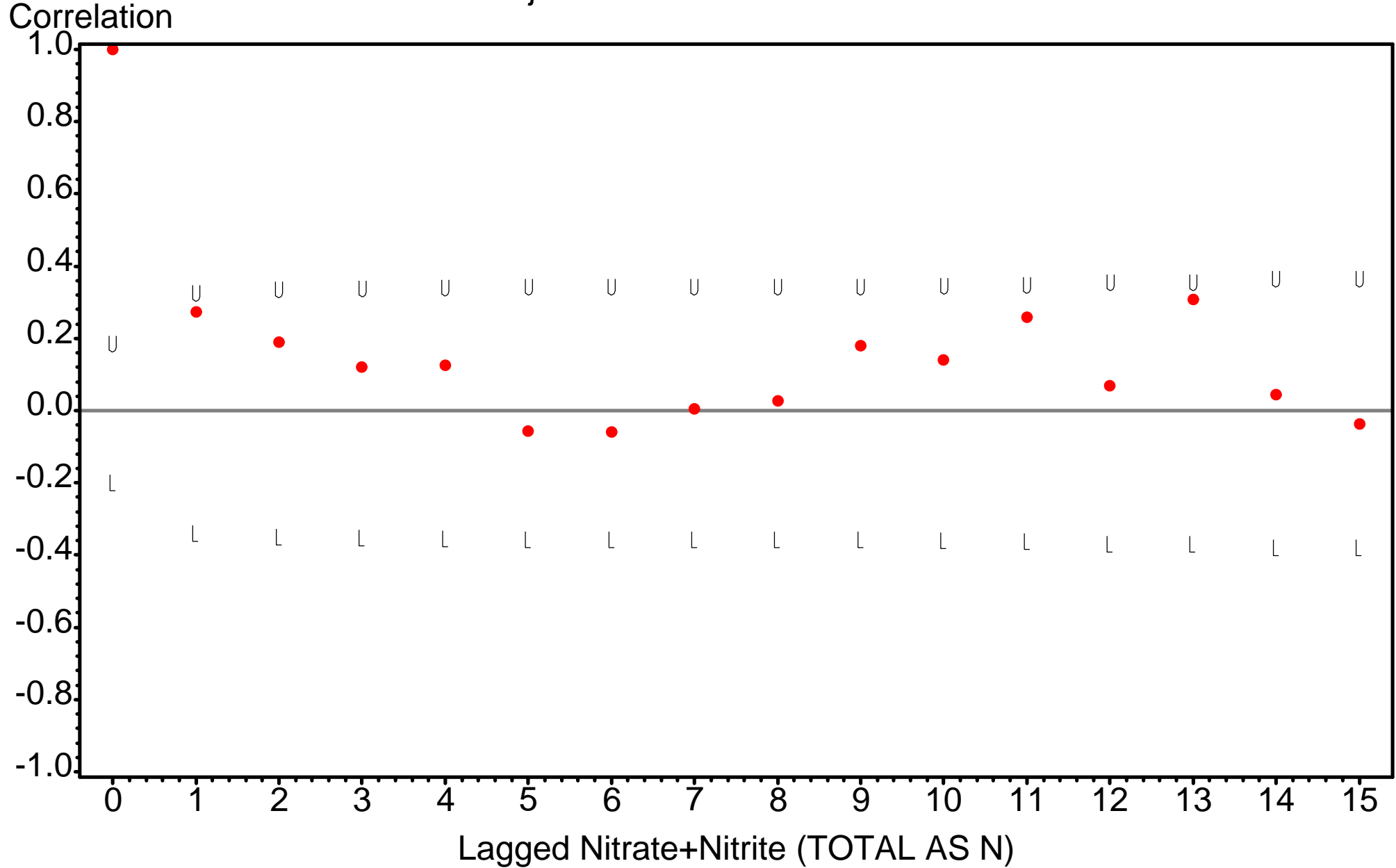
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.273	0.167	0.333	-0.333
2	0.190	0.171	0.342	-0.342
3	0.120	0.173	0.345	-0.345
4	0.125	0.173	0.347	-0.347
5	-0.056	0.174	0.349	-0.349
6	-0.058	0.174	0.349	-0.349
7	0.004	0.175	0.349	-0.349
8	0.026	0.175	0.349	-0.349
9	0.179	0.175	0.349	-0.349
10	0.141	0.176	0.353	-0.353
11	0.259	0.177	0.355	-0.355
12	0.068	0.181	0.362	-0.362
13	0.307	0.181	0.362	-0.362
14	0.045	0.186	0.372	-0.372
15	-0.038	0.186	0.372	-0.372

Estero Bay Trends Appendix - Display 785

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 786
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.278	0	0	-.002

Estero Bay Trends Appendix - Display 787
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.33711	.000035691	.00563564	-.0016

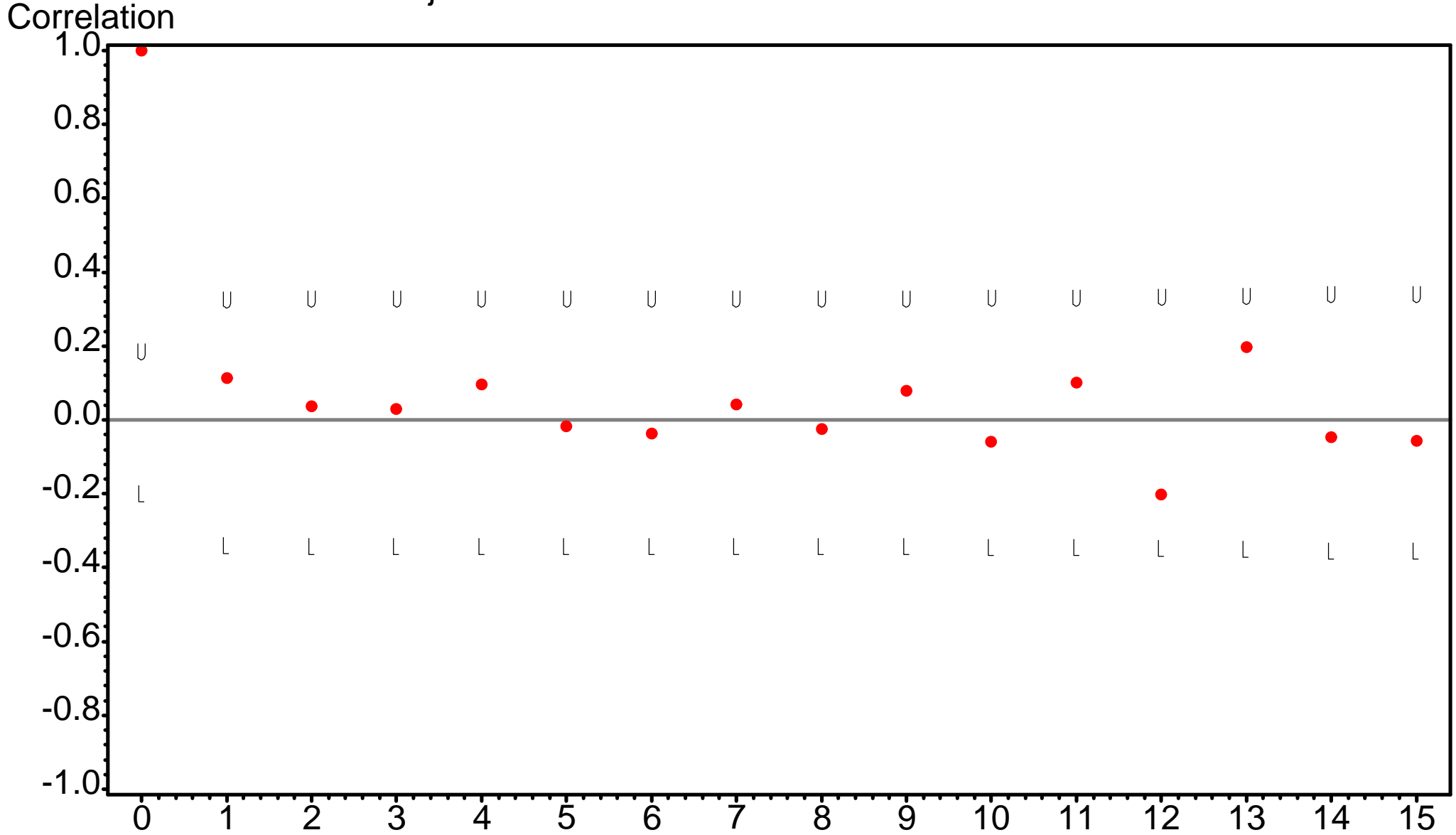
Estero Bay Trends Appendix - Display 789

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.114	0.167	0.333	-0.333
2	0.036	0.167	0.335	-0.335
3	0.029	0.167	0.335	-0.335
4	0.095	0.168	0.335	-0.335
5	-0.016	0.168	0.336	-0.336
6	-0.038	0.168	0.336	-0.336
7	0.043	0.168	0.336	-0.336
8	-0.024	0.168	0.336	-0.336
9	0.078	0.168	0.336	-0.336
10	-0.059	0.169	0.337	-0.337
11	0.100	0.169	0.338	-0.338
12	-0.201	0.169	0.339	-0.339
13	0.196	0.172	0.343	-0.343
14	-0.046	0.174	0.347	-0.347
15	-0.057	0.174	0.347	-0.347

Estero Bay Trends Appendix - Display 790

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay Adjusted for Seasonal Median and Detrended



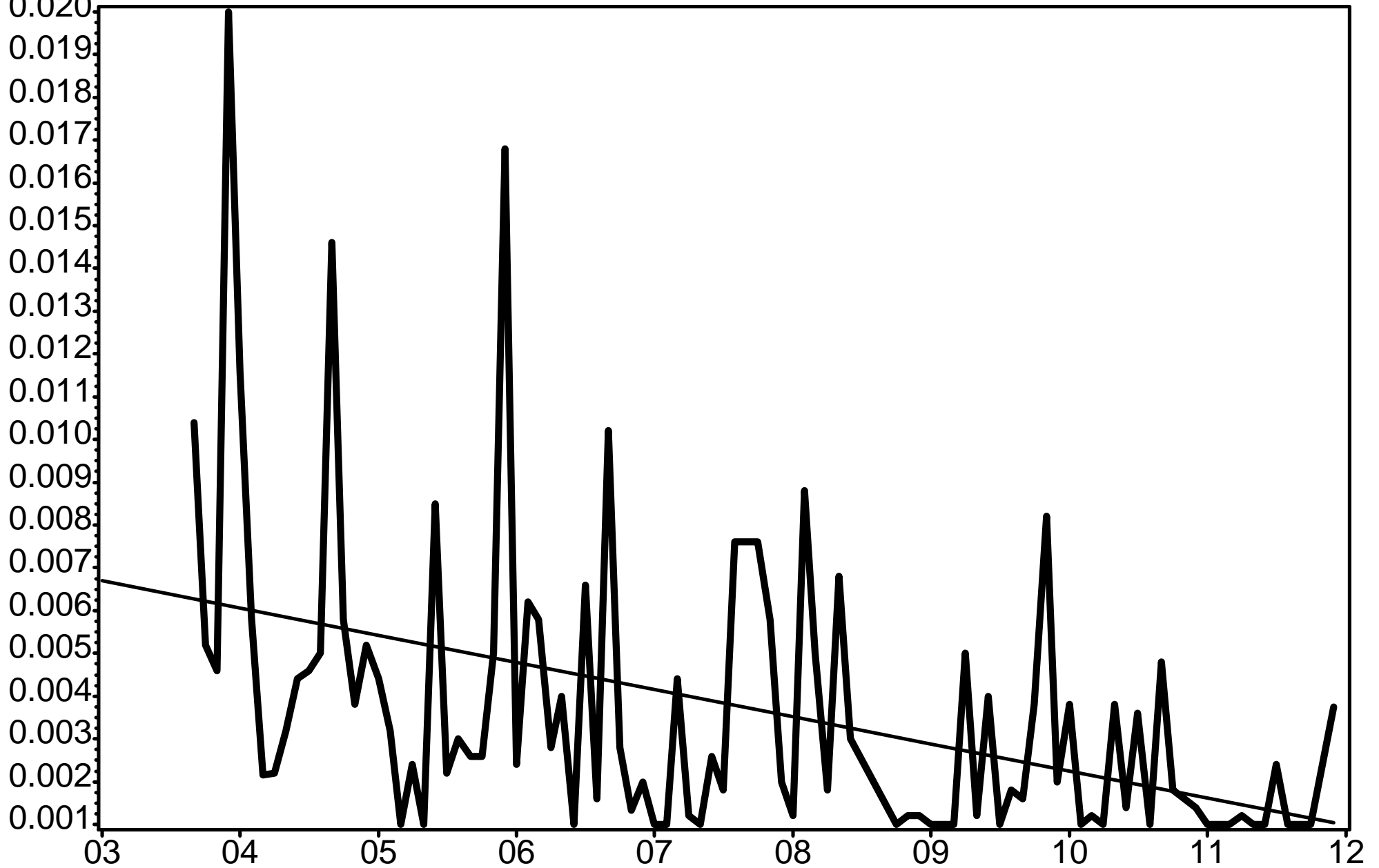
Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 791

Monthly Data Time Series
for Surface Nitrite (TOTAL AS N) in Estero Bay
Not Adjusted for Seasonal Medians

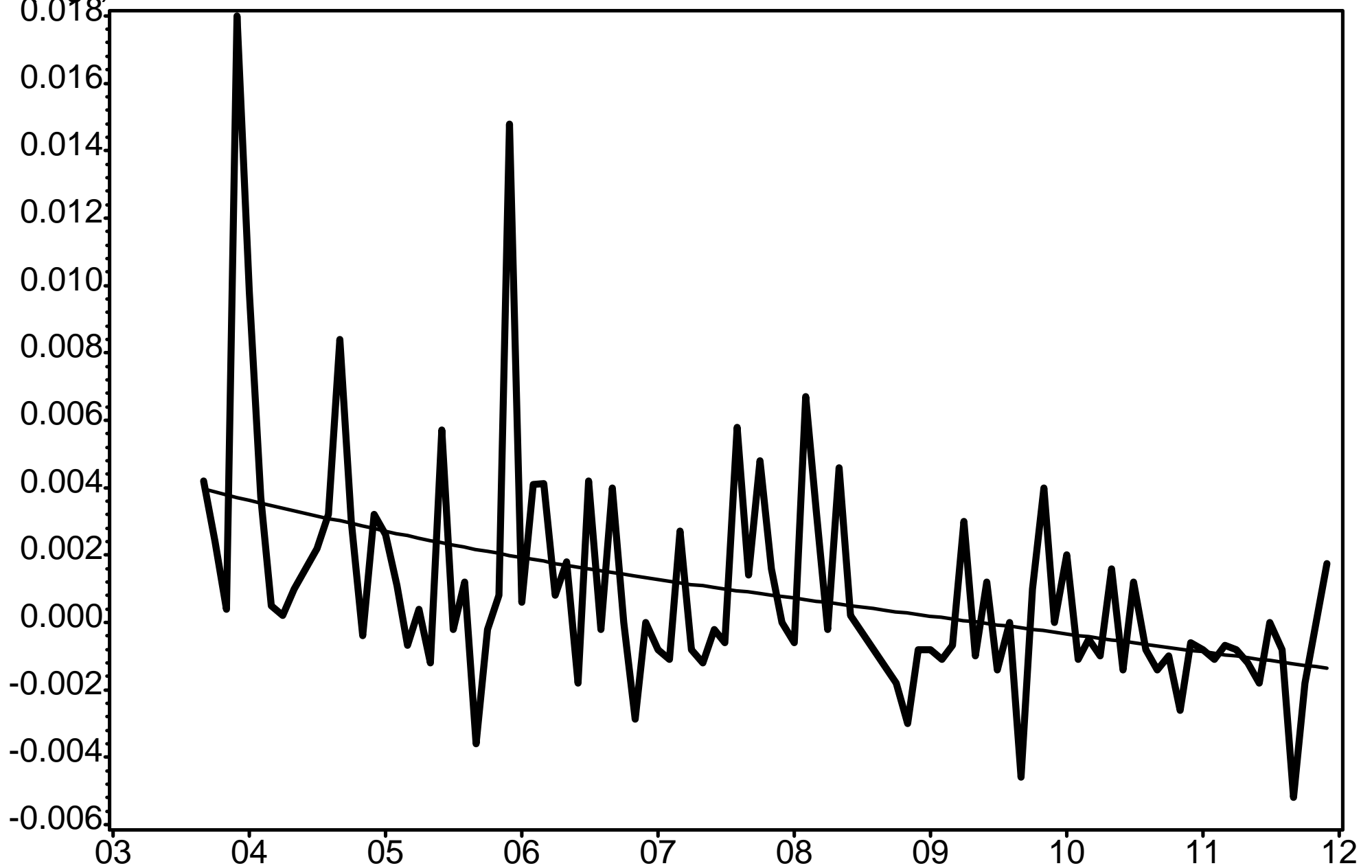
NO2_mgl
(mg/l)



Estero Bay Trends Appendix - Display 792

Monthly Data Time Series
for Surface Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Medians

Adjusted
NO₂_mg/l
(mg/l)

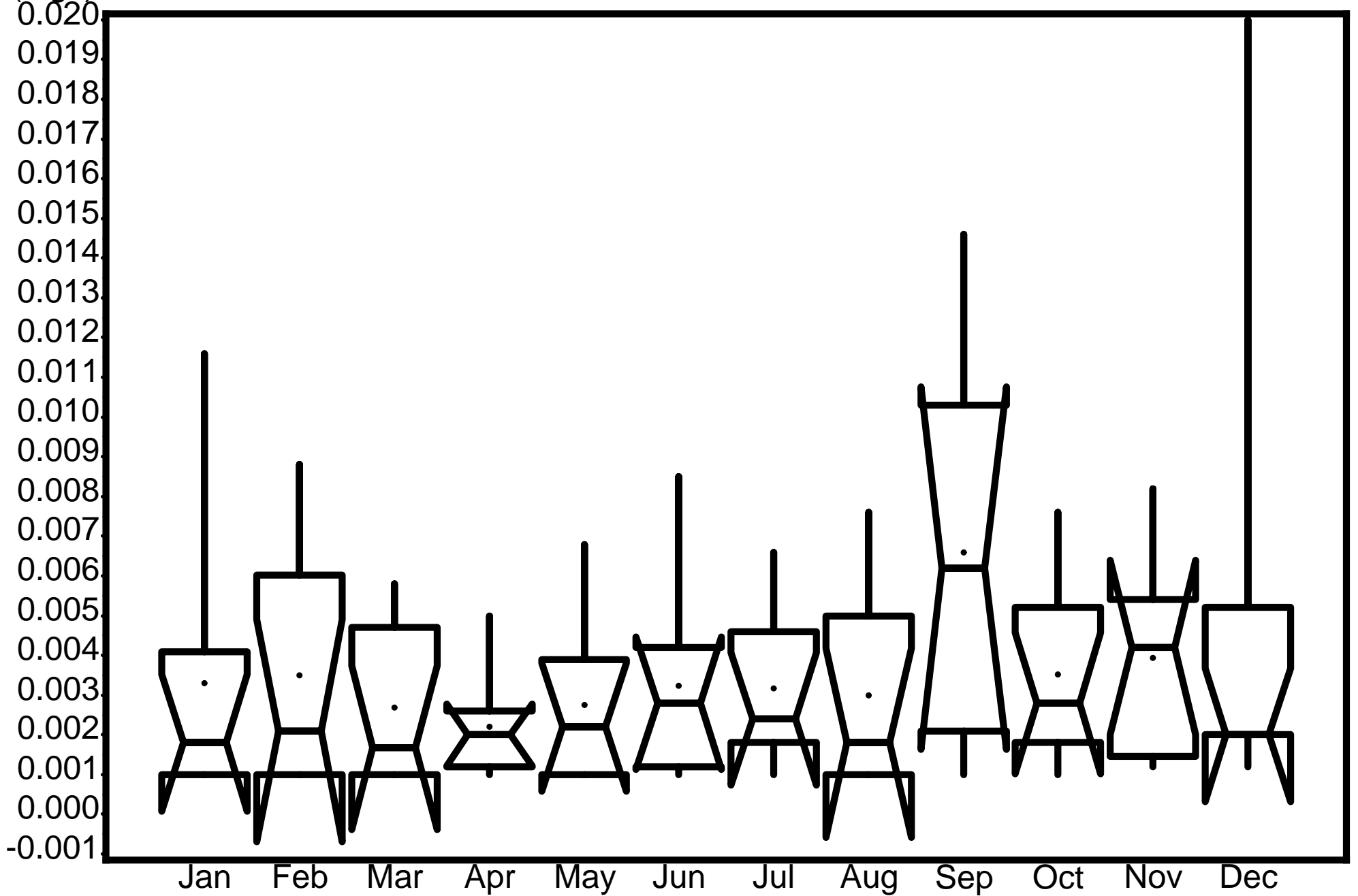


Estero Bay Trends Appendix - Display 793

Seasonal Univariate Statistics

for Surface Nitrite (TOTAL AS N) in Estero Bay

NO2_mgl
(mg/l)



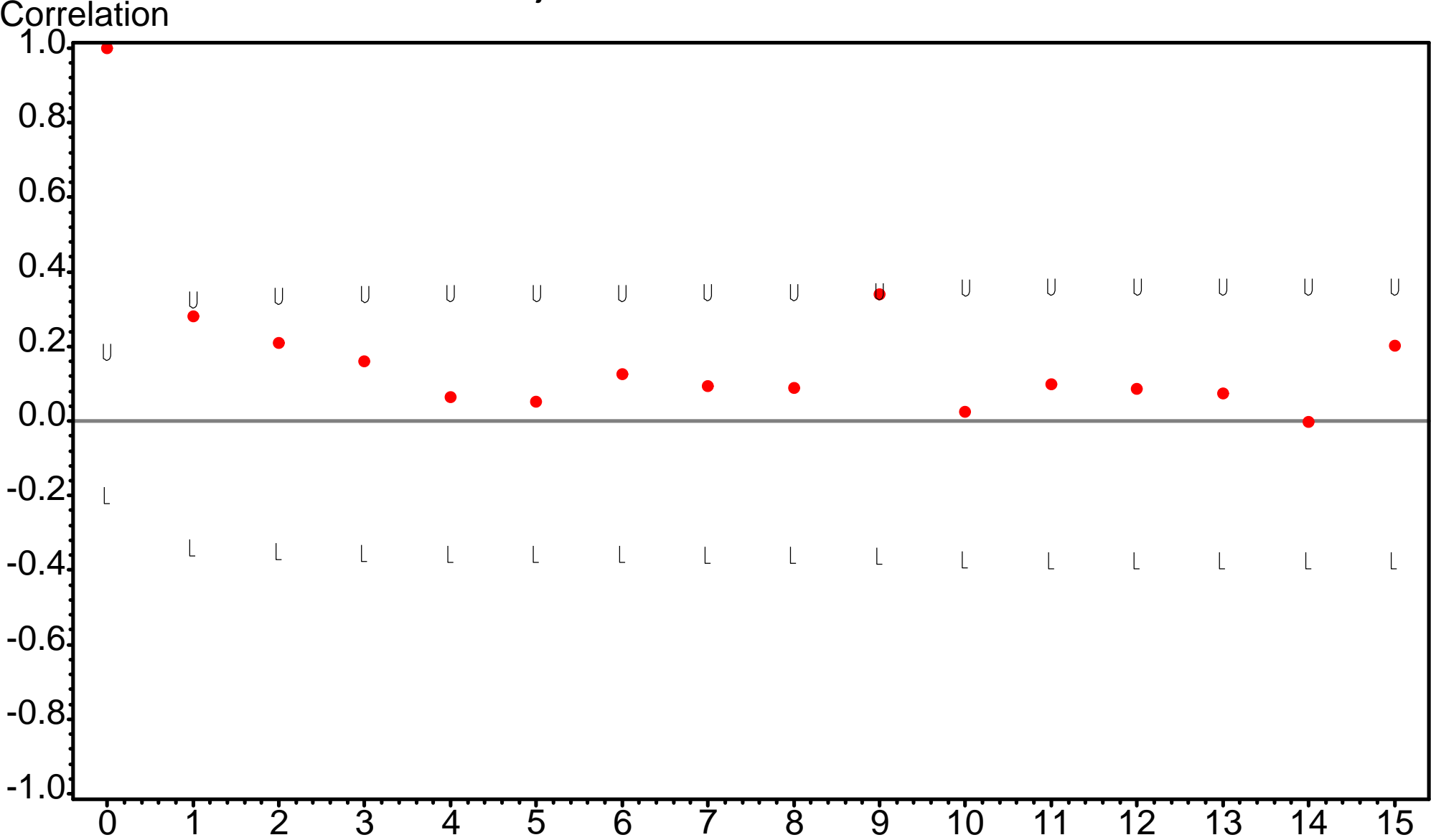
Estero Bay Trends Appendix - Display 794
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Estero Bay

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.281	0.167	0.333	-0.333
2	0.210	0.171	0.342	-0.342
3	0.160	0.173	0.347	-0.347
4	0.065	0.175	0.349	-0.349
5	0.052	0.175	0.350	-0.350
6	0.125	0.175	0.350	-0.350
7	0.094	0.176	0.352	-0.352
8	0.088	0.176	0.353	-0.353
9	0.340	0.177	0.354	-0.354
10	0.024	0.183	0.365	-0.365
11	0.099	0.183	0.366	-0.366
12	0.085	0.183	0.367	-0.367
13	0.075	0.184	0.367	-0.367
14	-0.002	0.184	0.368	-0.368
15	0.202	0.184	0.368	-0.368

Estero Bay Trends Appendix - Display 795

Correlogram for Surface Nitrite (TOTAL AS N) in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 796
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.326	0	0	0

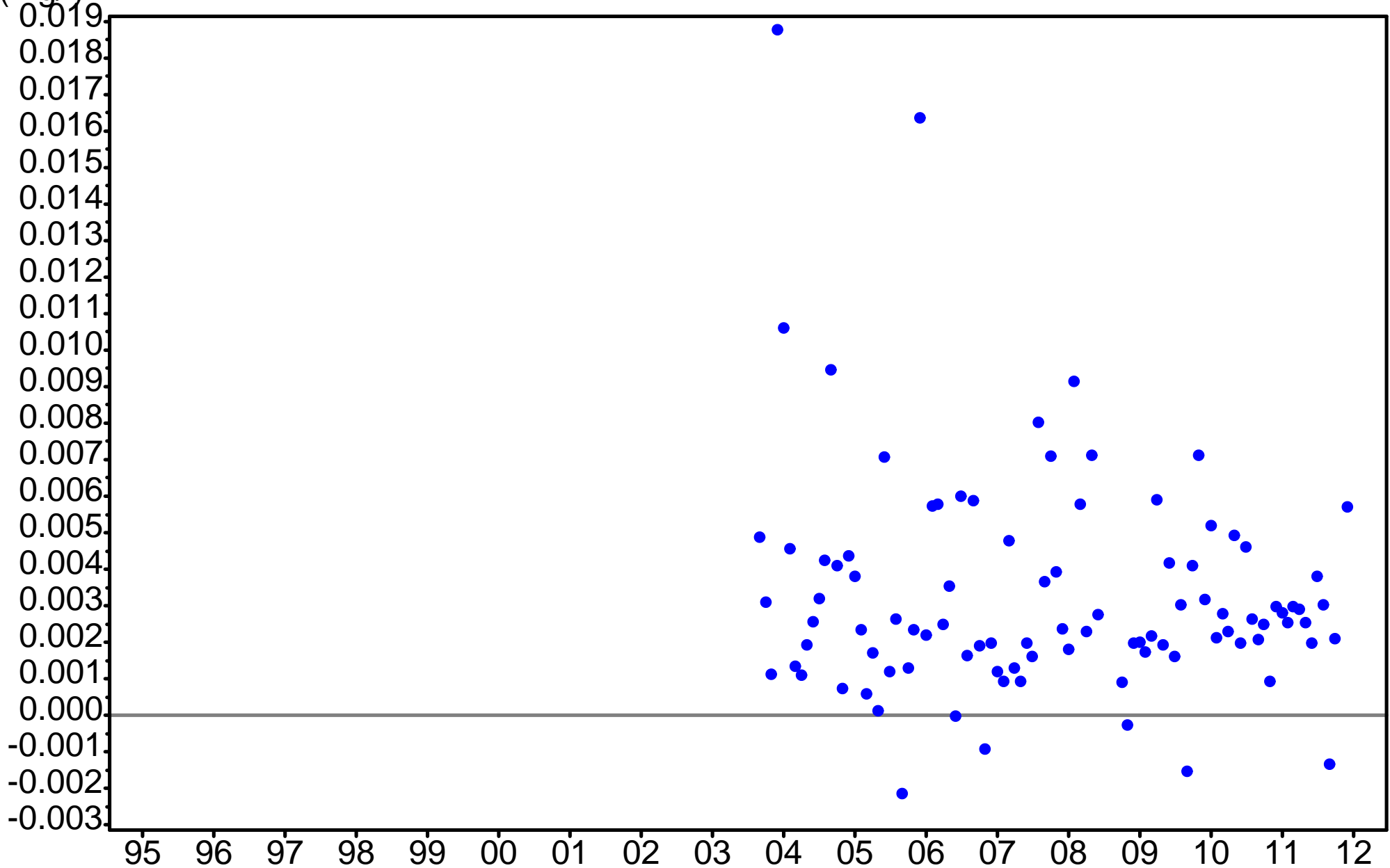
Estero Bay Trends Appendix - Display 797
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.35207	.000013603	.00821266	-.0004

Estero Bay Trends Appendix - Display 798

Time Series Plot of Surface Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended Estero Bay

Adjusted (mg/l)

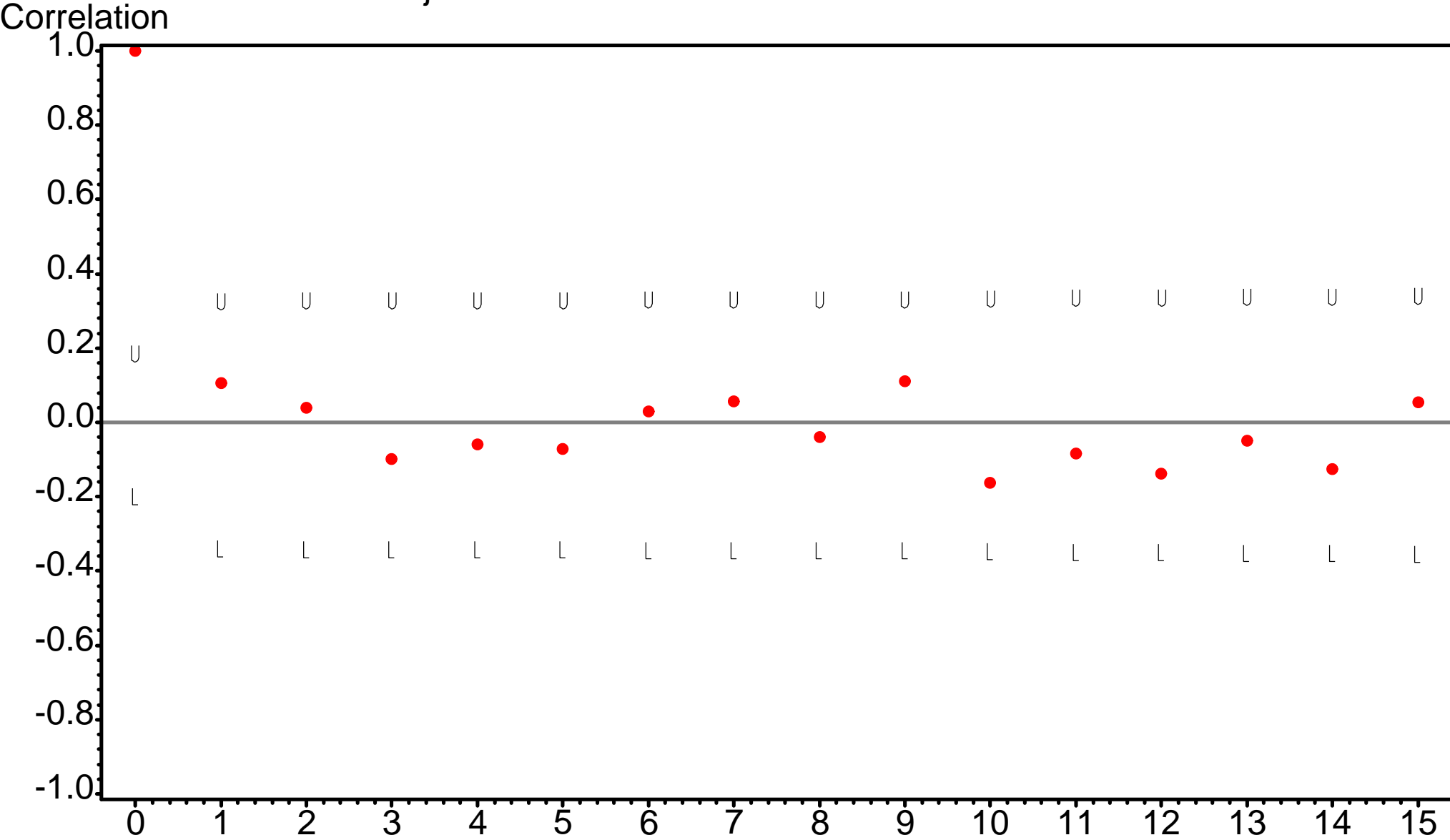


Zero Reference Line Shown

Estero Bay Trends Appendix - Display 799
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.106	0.167	0.333	-0.333
2	0.040	0.167	0.335	-0.335
3	-0.098	0.167	0.335	-0.335
4	-0.058	0.168	0.336	-0.336
5	-0.072	0.168	0.336	-0.336
6	0.030	0.168	0.337	-0.337
7	0.057	0.168	0.337	-0.337
8	-0.040	0.169	0.337	-0.337
9	0.111	0.169	0.337	-0.337
10	-0.162	0.169	0.339	-0.339
11	-0.083	0.171	0.342	-0.342
12	-0.139	0.171	0.342	-0.342
13	-0.050	0.172	0.344	-0.344
14	-0.125	0.172	0.345	-0.345
15	0.053	0.173	0.346	-0.346

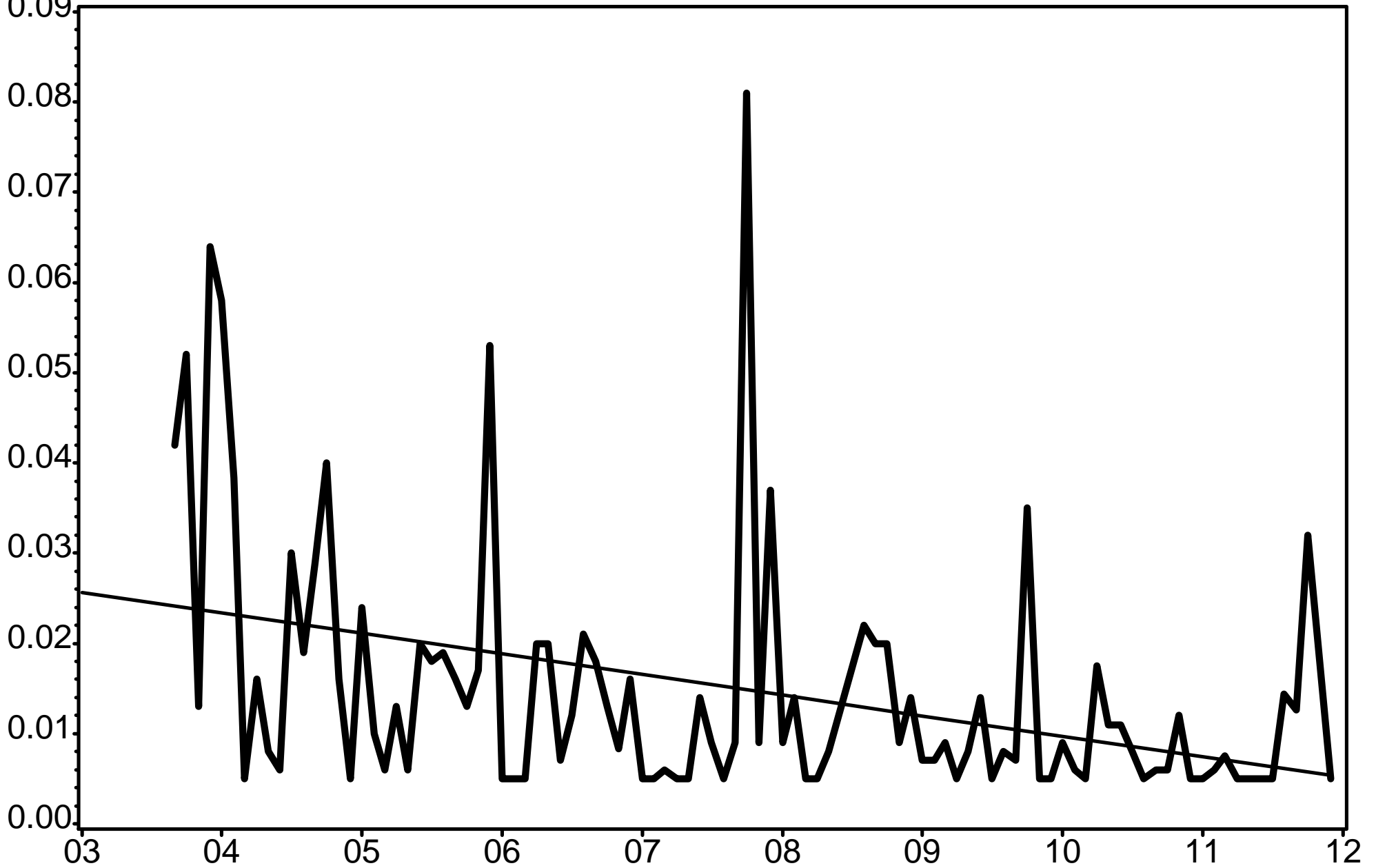
Estero Bay Trends Appendix - Display 800
Correlogram for Surface Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Median and Detrended



Lagged Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 801
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)



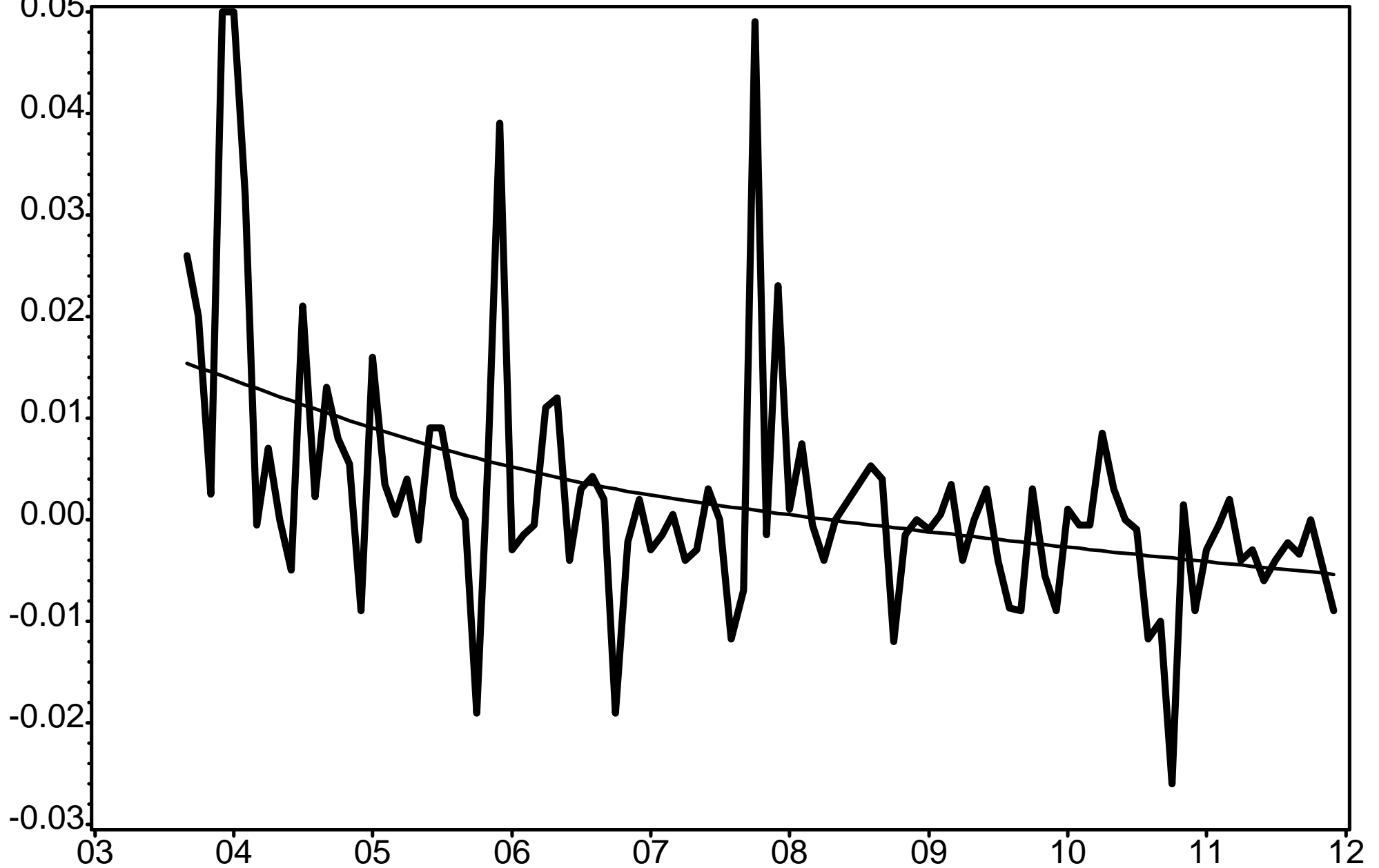
Estero Bay Trends Appendix - Display 802

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

Adjusted for Seasonal Medians

Adjusted
NO3_mgl
(mg/l)

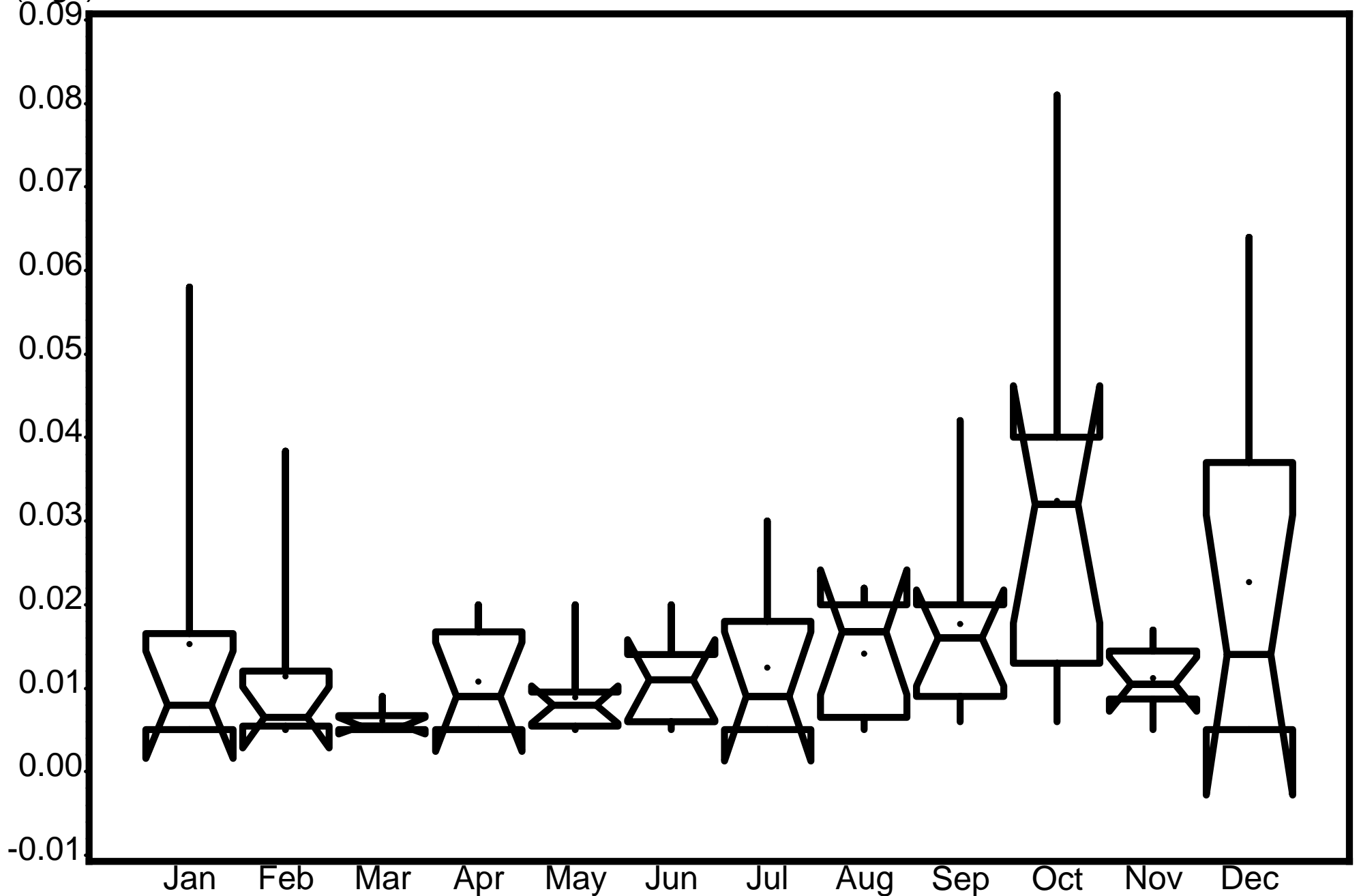


Estero Bay Trends Appendix - Display 803

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

NO3_mgl
(mg/l)



Estero Bay Trends Appendix - Display 804

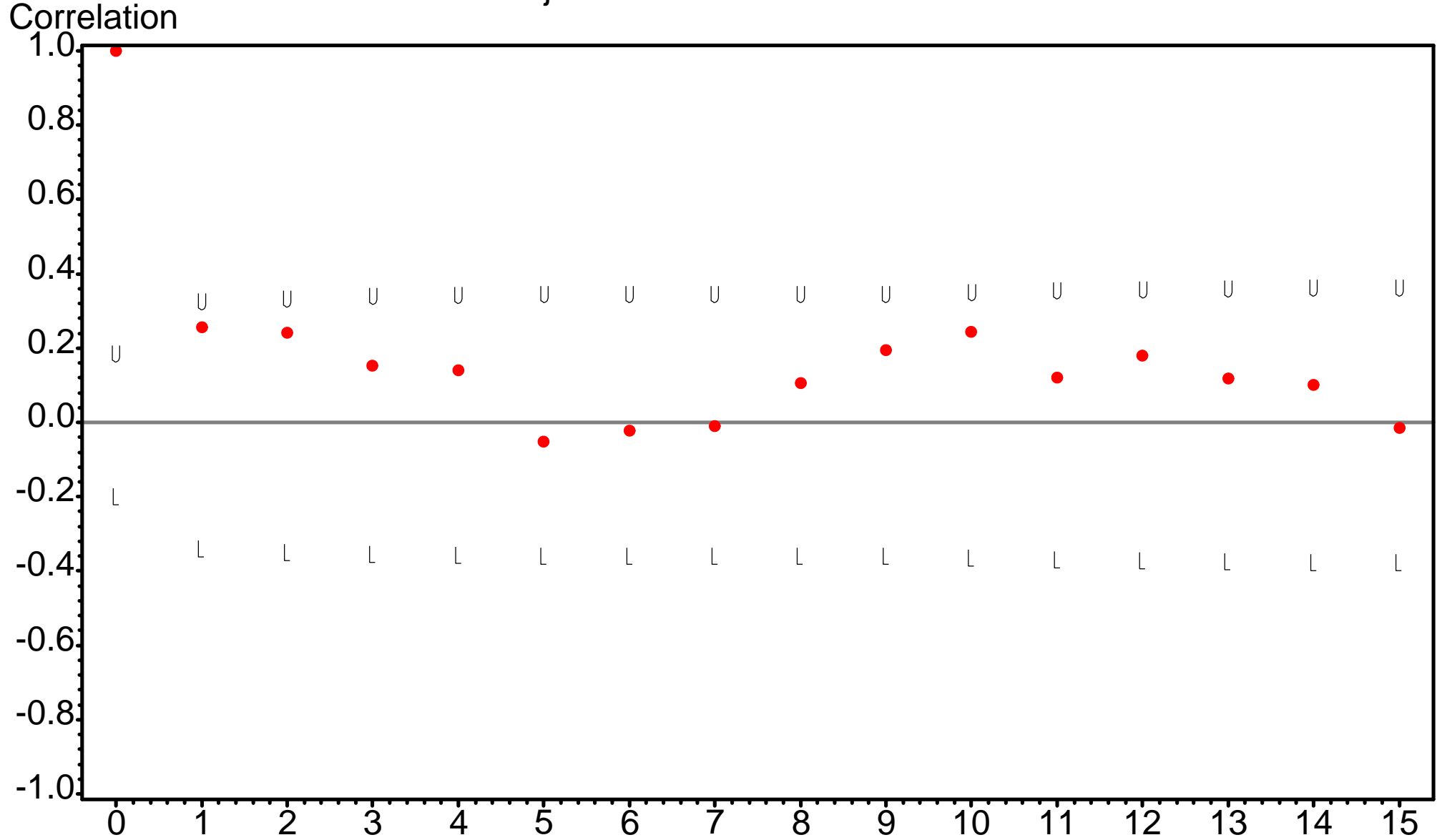
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.256	0.167	0.333	-0.333
2	0.242	0.170	0.341	-0.341
3	0.152	0.173	0.347	-0.347
4	0.140	0.175	0.349	-0.349
5	-0.052	0.176	0.351	-0.351
6	-0.022	0.176	0.352	-0.352
7	-0.011	0.176	0.352	-0.352
8	0.105	0.176	0.352	-0.352
9	0.195	0.176	0.353	-0.353
10	0.245	0.178	0.357	-0.357
11	0.121	0.181	0.363	-0.363
12	0.180	0.182	0.364	-0.364
13	0.119	0.184	0.368	-0.368
14	0.101	0.185	0.369	-0.369
15	-0.014	0.185	0.370	-0.370

Estero Bay Trends Appendix - Display 805

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 806
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Unadjusted for Seasonal Medians

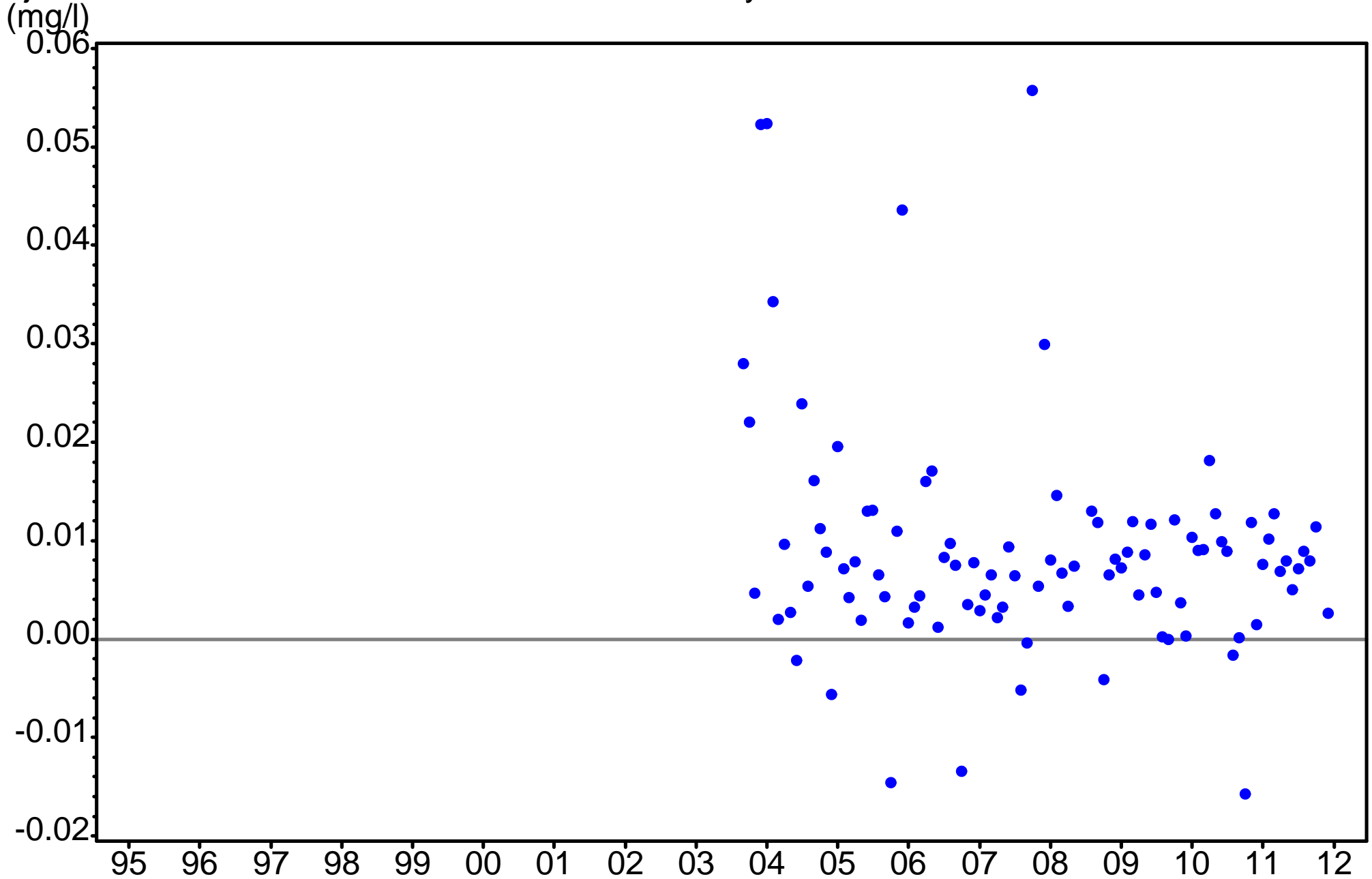
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.288	0	0	-.001

Estero Bay Trends Appendix - Display 807
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.32081	.000077967	.00610083	-.00117143

Estero Bay Trends Appendix - Display 808

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted Estero Bay



Zero Reference Line Shown

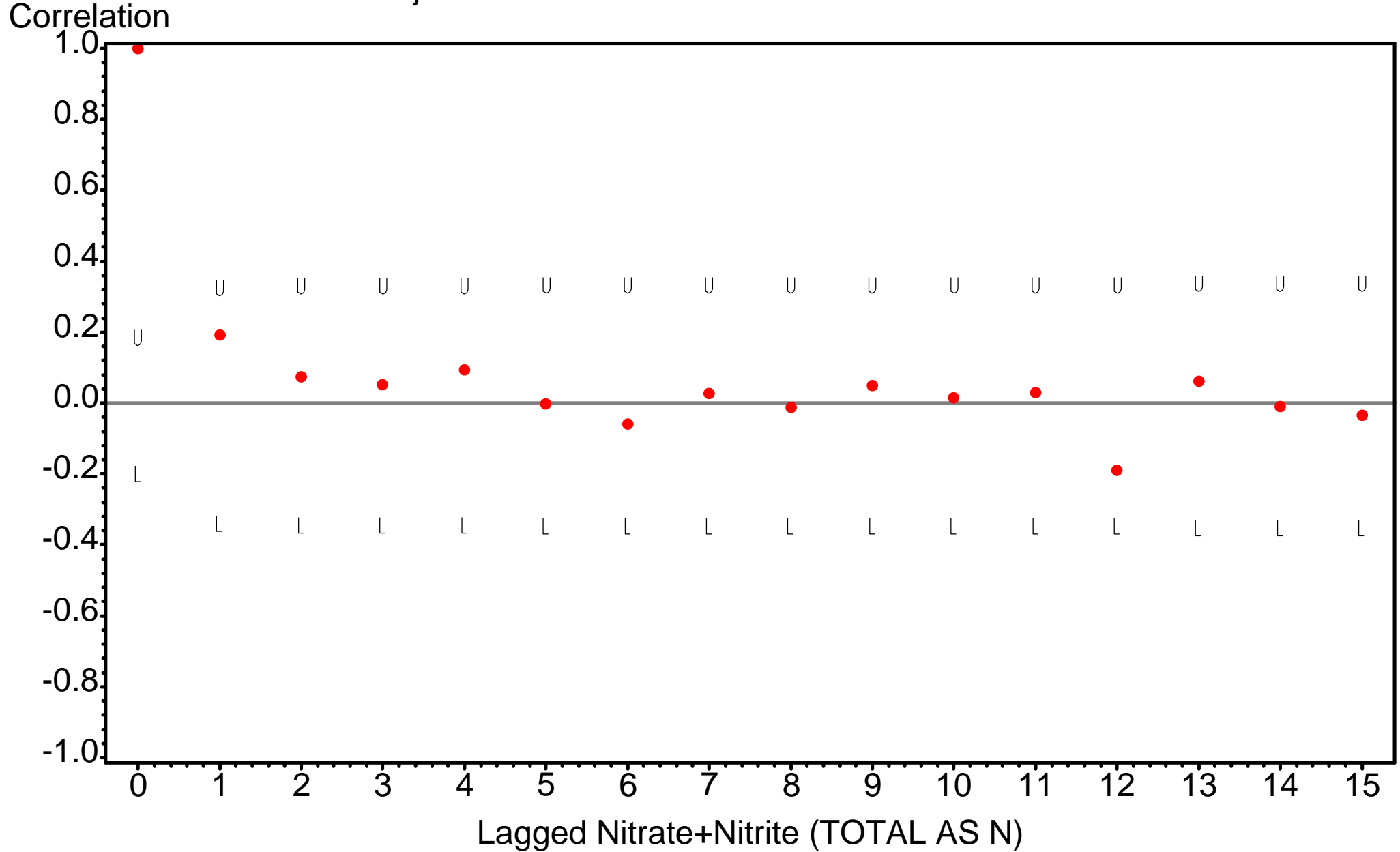
Estero Bay Trends Appendix - Display 809

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.191	0.167	0.333	-0.333
2	0.074	0.169	0.337	-0.337
3	0.052	0.169	0.338	-0.338
4	0.093	0.169	0.338	-0.338
5	-0.002	0.170	0.339	-0.339
6	-0.059	0.170	0.339	-0.339
7	0.026	0.170	0.340	-0.340
8	-0.013	0.170	0.340	-0.340
9	0.050	0.170	0.340	-0.340
10	0.016	0.170	0.340	-0.340
11	0.030	0.170	0.340	-0.340
12	-0.190	0.170	0.340	-0.340
13	0.062	0.172	0.344	-0.344
14	-0.010	0.172	0.344	-0.344
15	-0.034	0.172	0.344	-0.344

Estero Bay Trends Appendix - Display 810

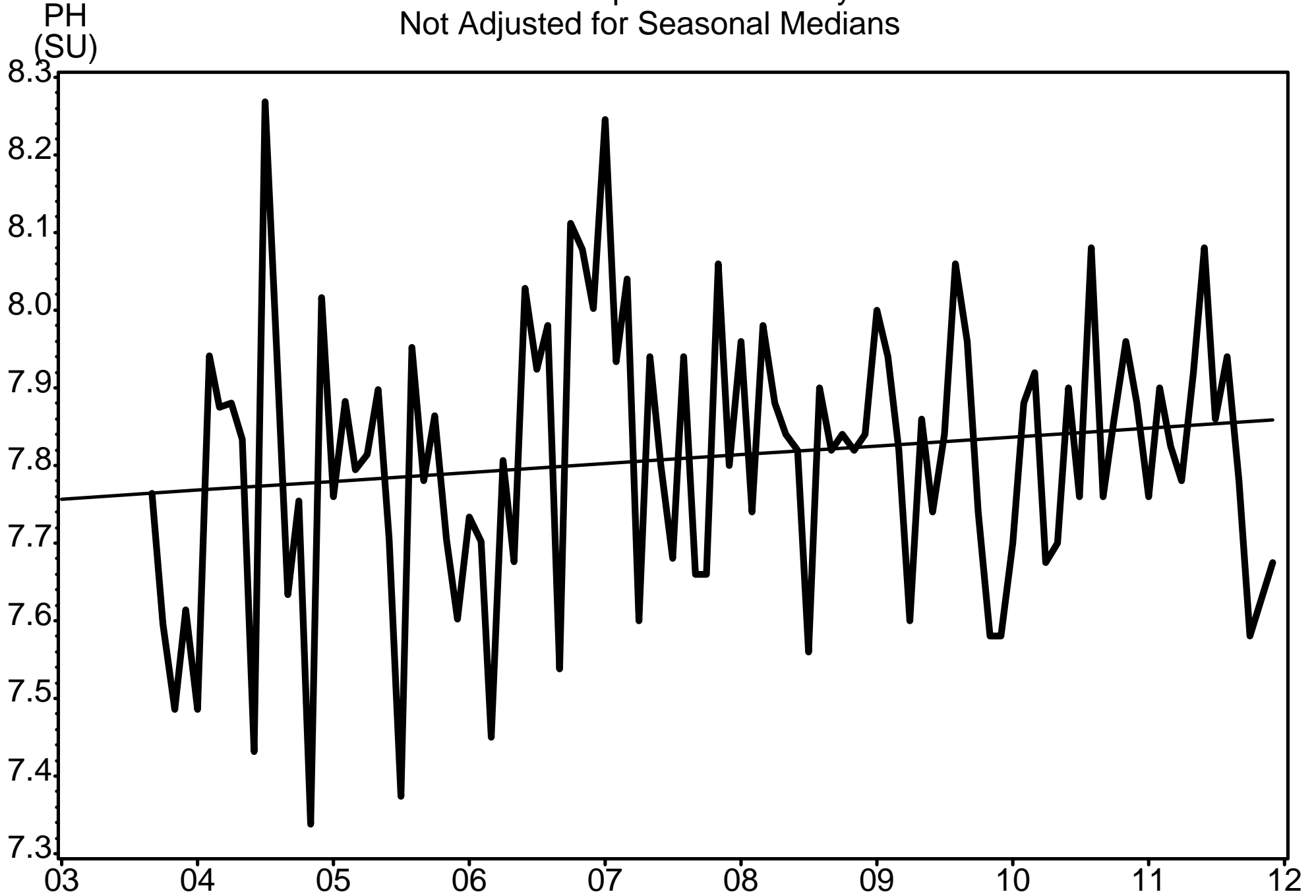
Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Estero Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 811

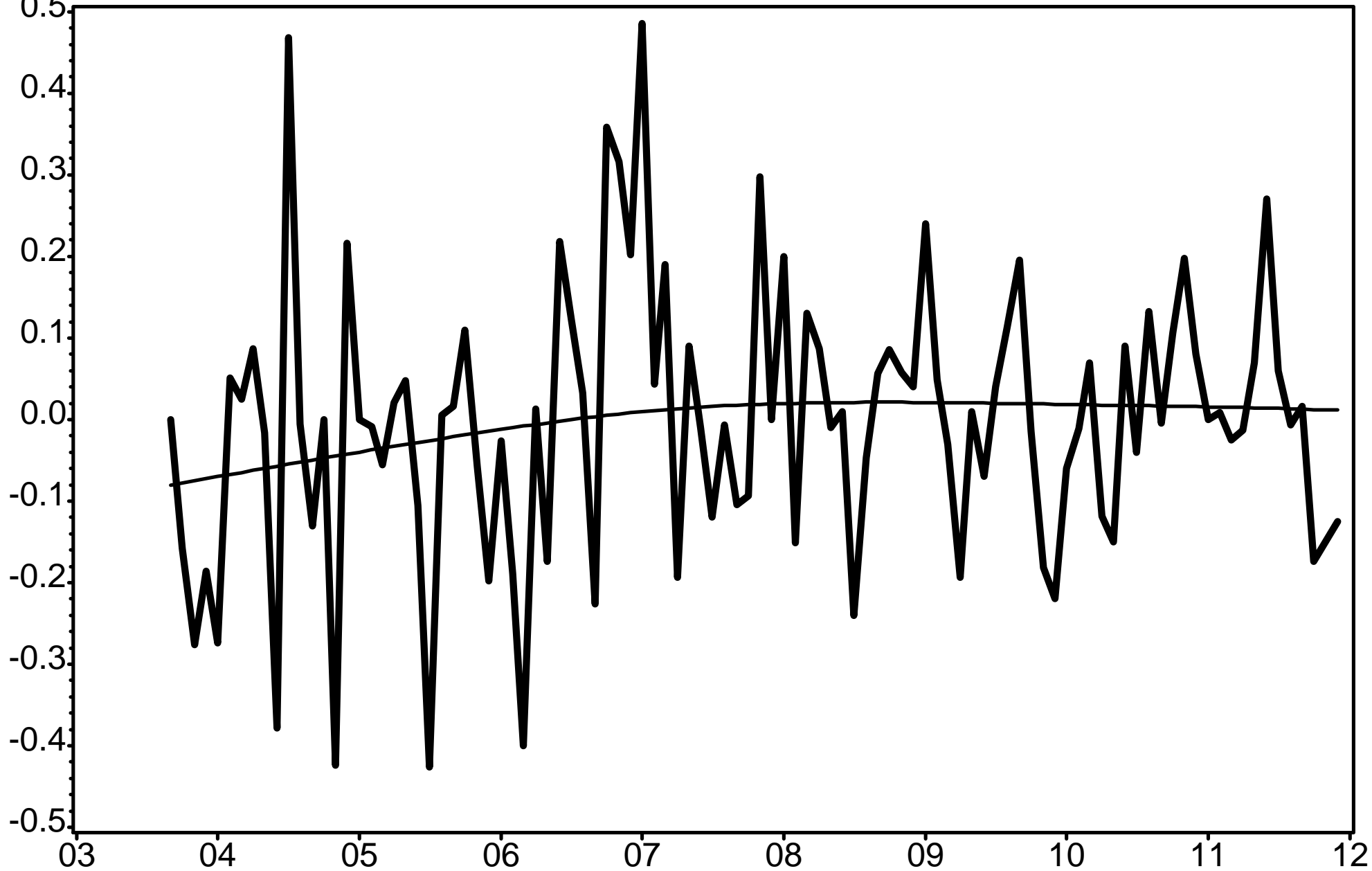
Monthly Data Time Series
for Surface pH in Estero Bay
Not Adjusted for Seasonal Medians



Estero Bay Trends Appendix - Display 812

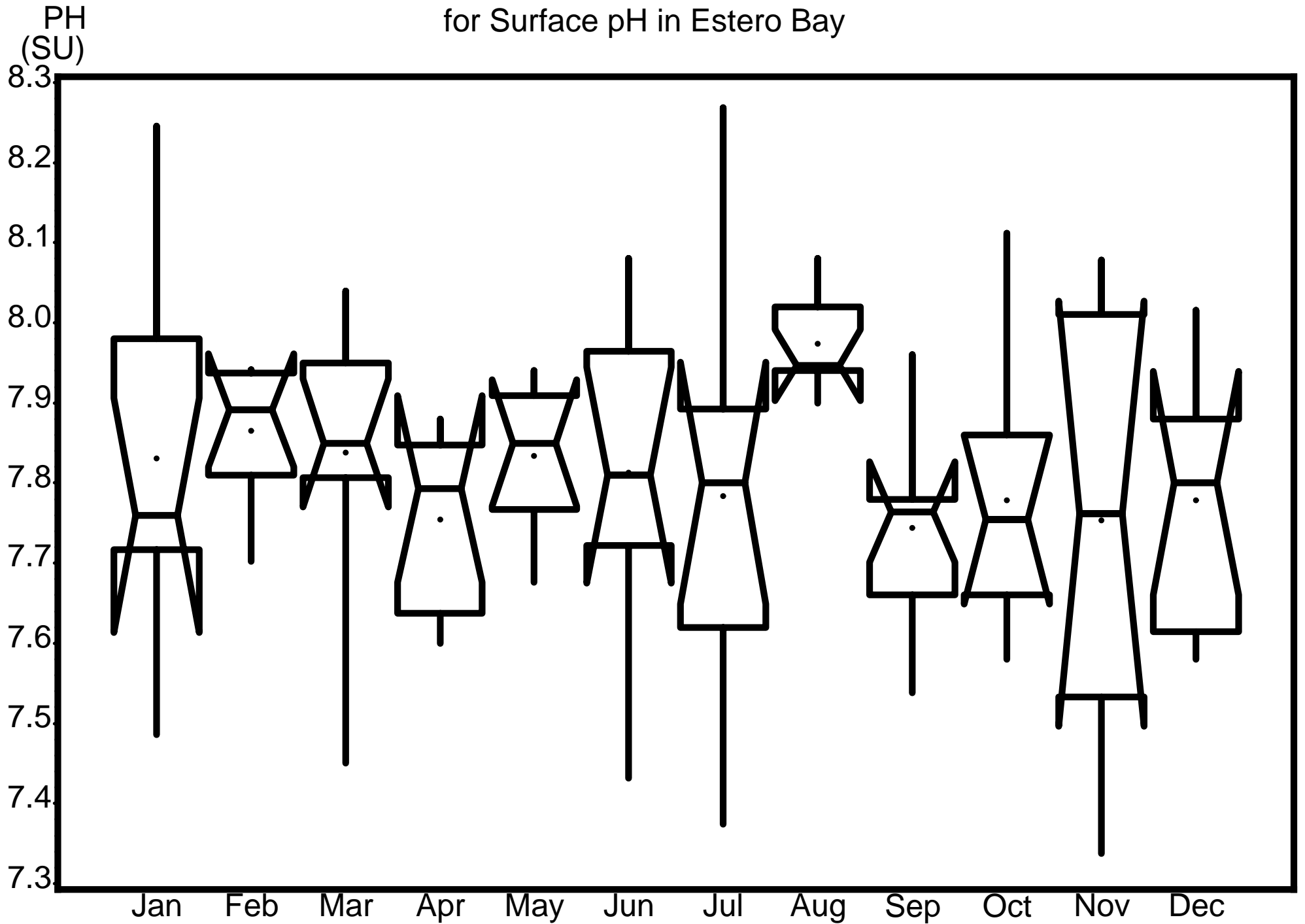
Monthly Data Time Series
for Surface pH in Estero Bay
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Estero Bay Trends Appendix - Display 813

Seasonal Univariate Statistics
for Surface pH in Estero Bay

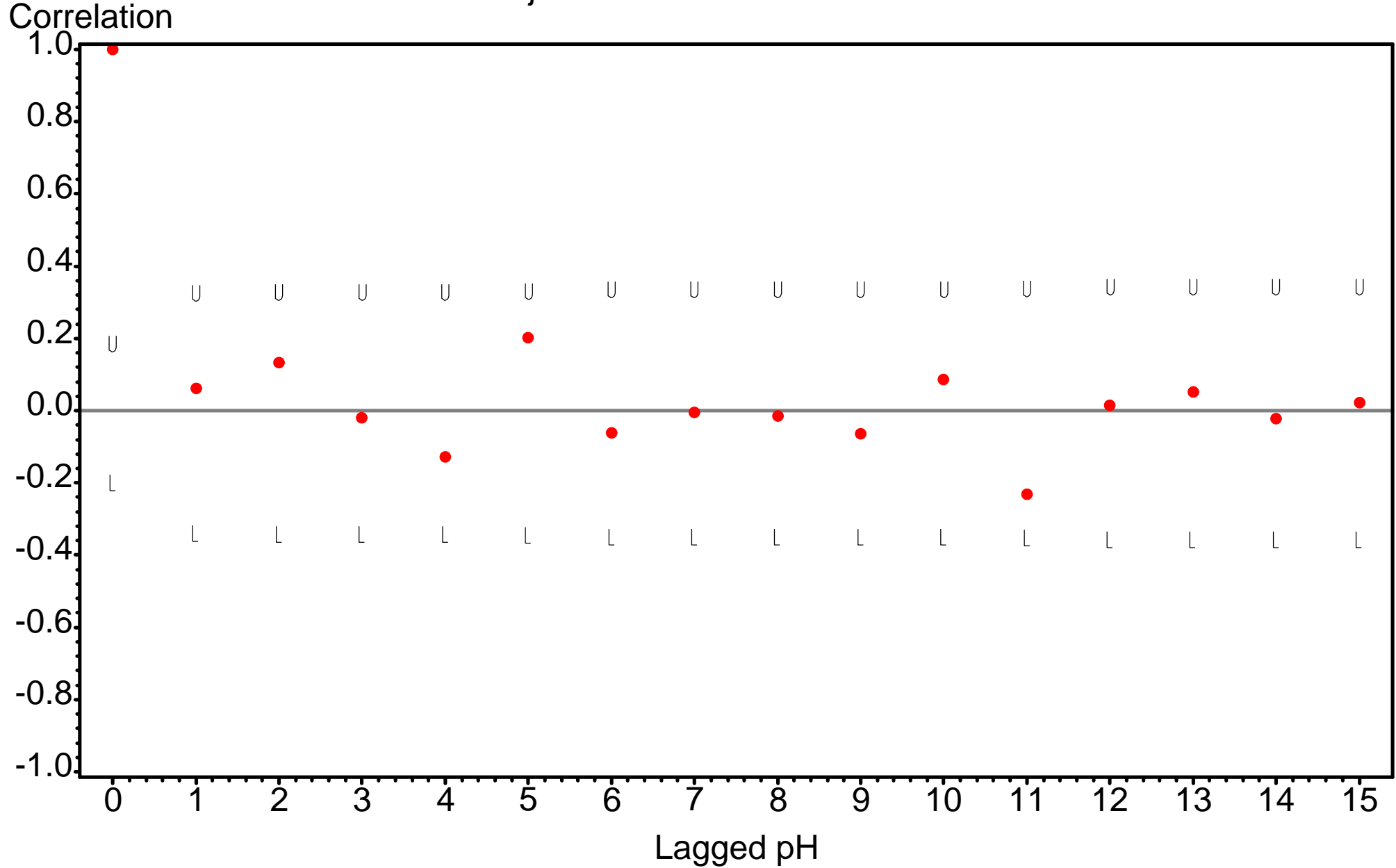


Estero Bay Trends Appendix - Display 814
Autocorrelation Statistics for Surface pH in Estero Bay

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.062	0.167	0.333	-0.333
2	0.134	0.167	0.334	-0.334
3	-0.020	0.168	0.336	-0.336
4	-0.128	0.168	0.336	-0.336
5	0.201	0.169	0.338	-0.338
6	-0.061	0.171	0.342	-0.342
7	-0.004	0.171	0.342	-0.342
8	-0.015	0.171	0.342	-0.342
9	-0.064	0.171	0.342	-0.342
10	0.086	0.171	0.343	-0.343
11	-0.232	0.172	0.344	-0.344
12	0.015	0.175	0.349	-0.349
13	0.051	0.175	0.349	-0.349
14	-0.022	0.175	0.350	-0.350
15	0.023	0.175	0.350	-0.350

Estero Bay Trends Appendix - Display 815

Correlogram for Surface pH in Estero Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 816
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.082	0.228	0.228	0.01

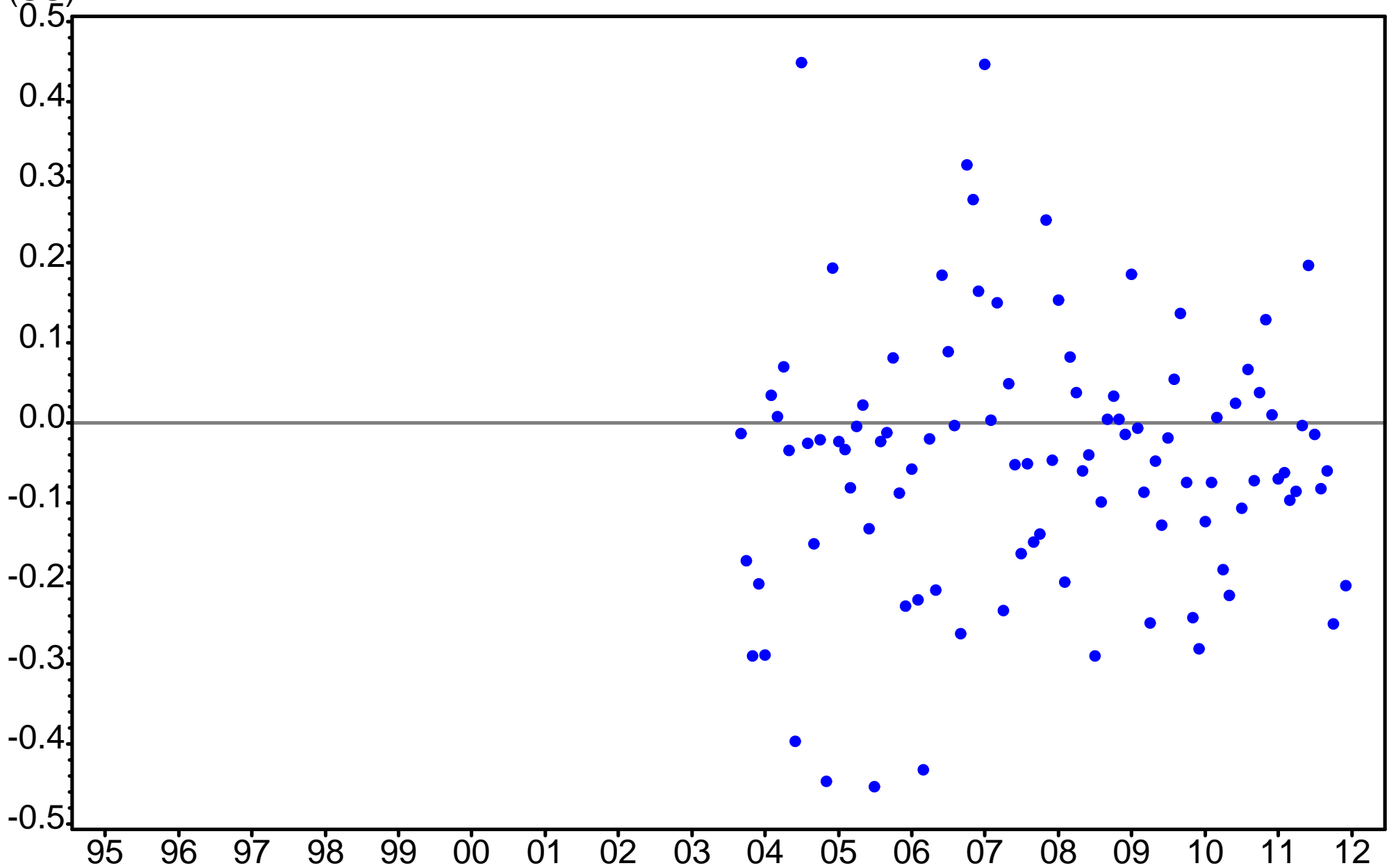
Estero Bay Trends Appendix - Display 817
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.086111	0.30603	0.036752	.0078125

Estero Bay Trends Appendix - Display 818

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(SU)



Zero Reference Line Shown

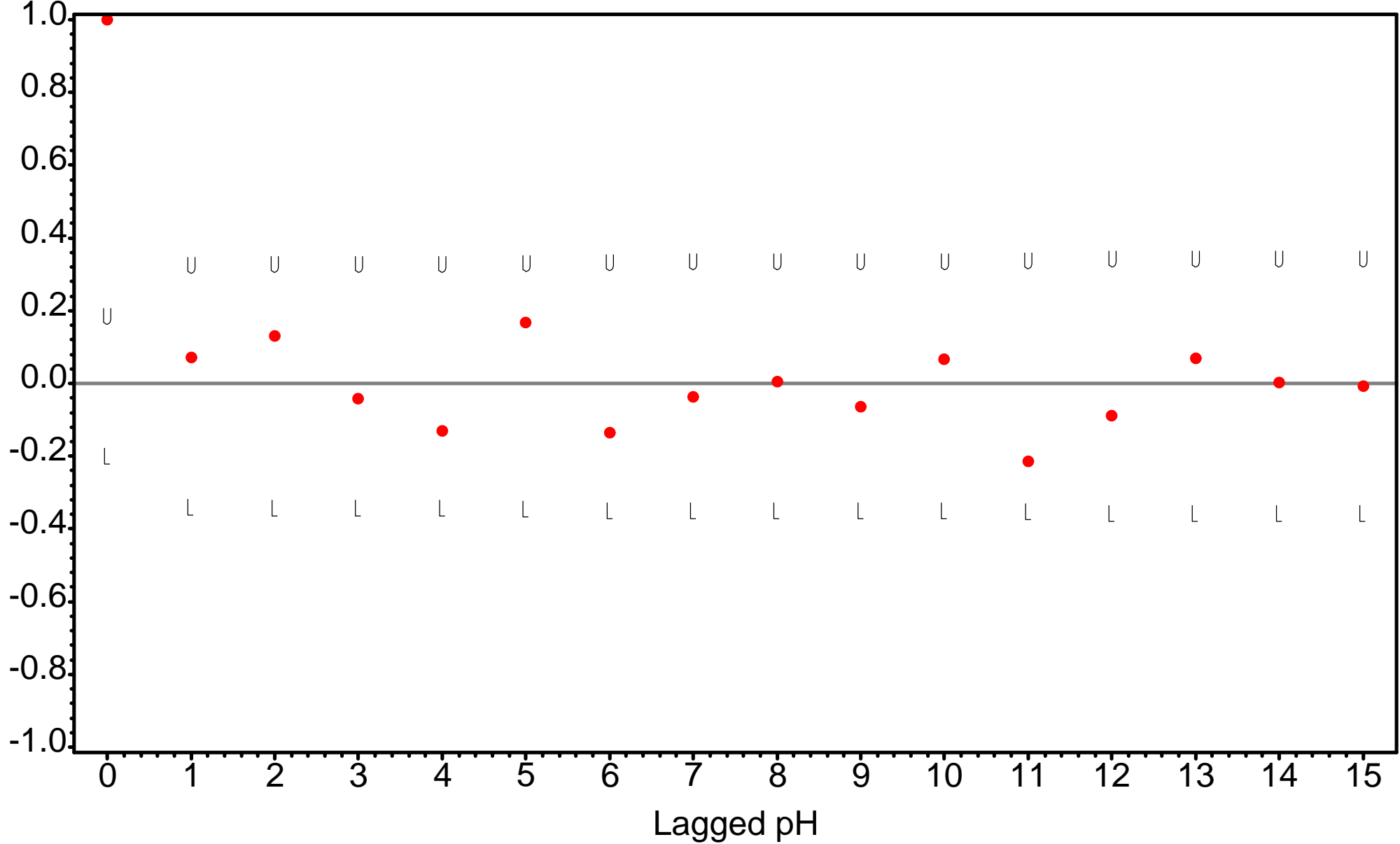
Estero Bay Trends Appendix - Display 819
Autocorrelation Statistics for Surface pH in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.071	0.167	0.333	-0.333
2	0.130	0.167	0.334	-0.334
3	-0.041	0.168	0.336	-0.336
4	-0.131	0.168	0.336	-0.336
5	0.167	0.169	0.338	-0.338
6	-0.136	0.170	0.341	-0.341
7	-0.037	0.171	0.343	-0.343
8	0.004	0.172	0.343	-0.343
9	-0.063	0.172	0.343	-0.343
10	0.067	0.172	0.343	-0.343
11	-0.213	0.172	0.344	-0.344
12	-0.088	0.174	0.349	-0.349
13	0.069	0.175	0.350	-0.350
14	0.002	0.175	0.350	-0.350
15	-0.008	0.175	0.350	-0.350

Estero Bay Trends Appendix - Display 820

Correlogram for Surface pH in Estero Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

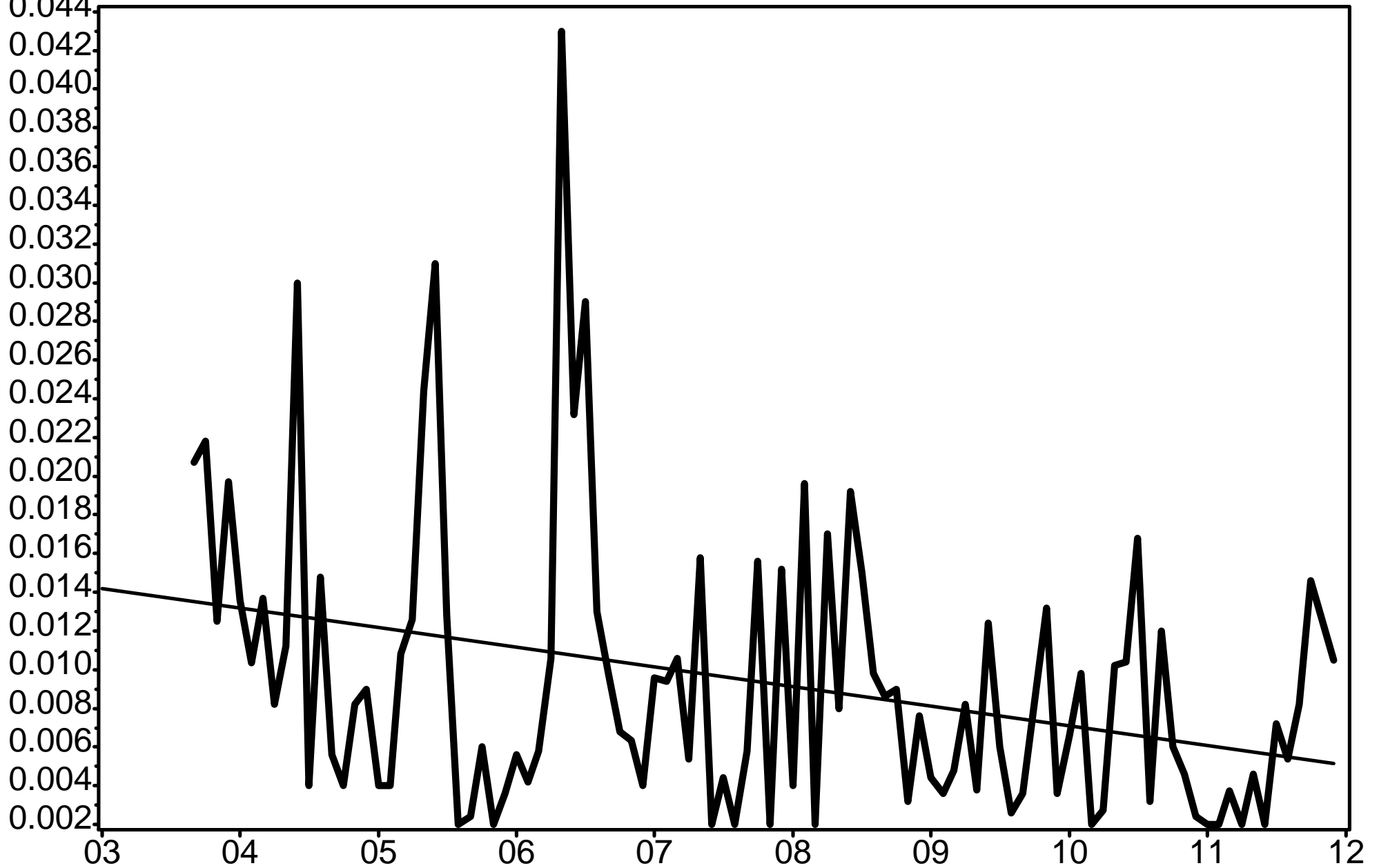
Estero Bay Trends Appendix - Display 821

Monthly Data Time Series

for Surface Orthophosphate (as P) in Estero Bay

Not Adjusted for Seasonal Medians

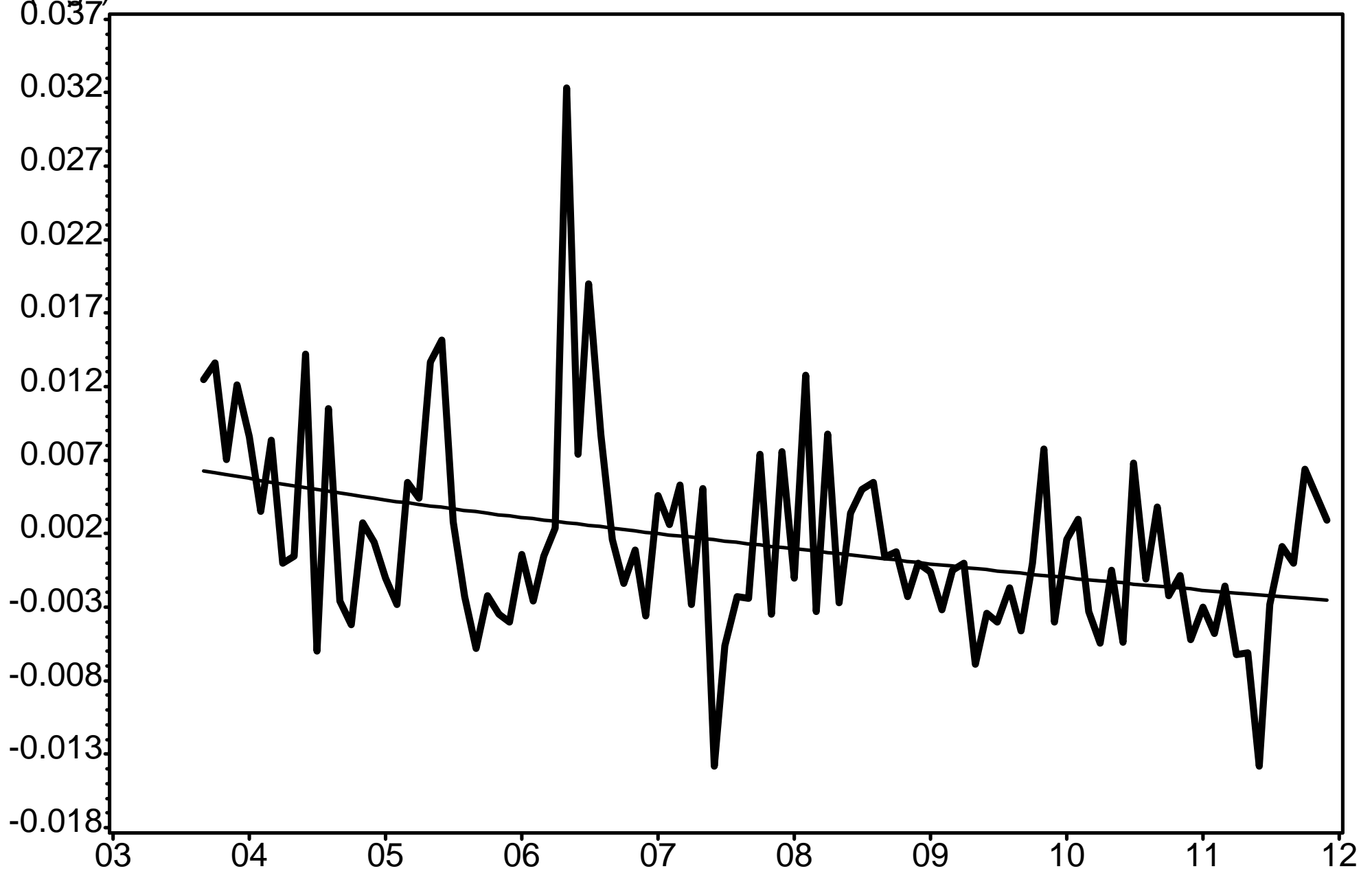
PO4_mgl
(mg/l)



Estero Bay Trends Appendix - Display 822

Monthly Data Time Series
for Surface Orthophosphate (as P) in Estero Bay
Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

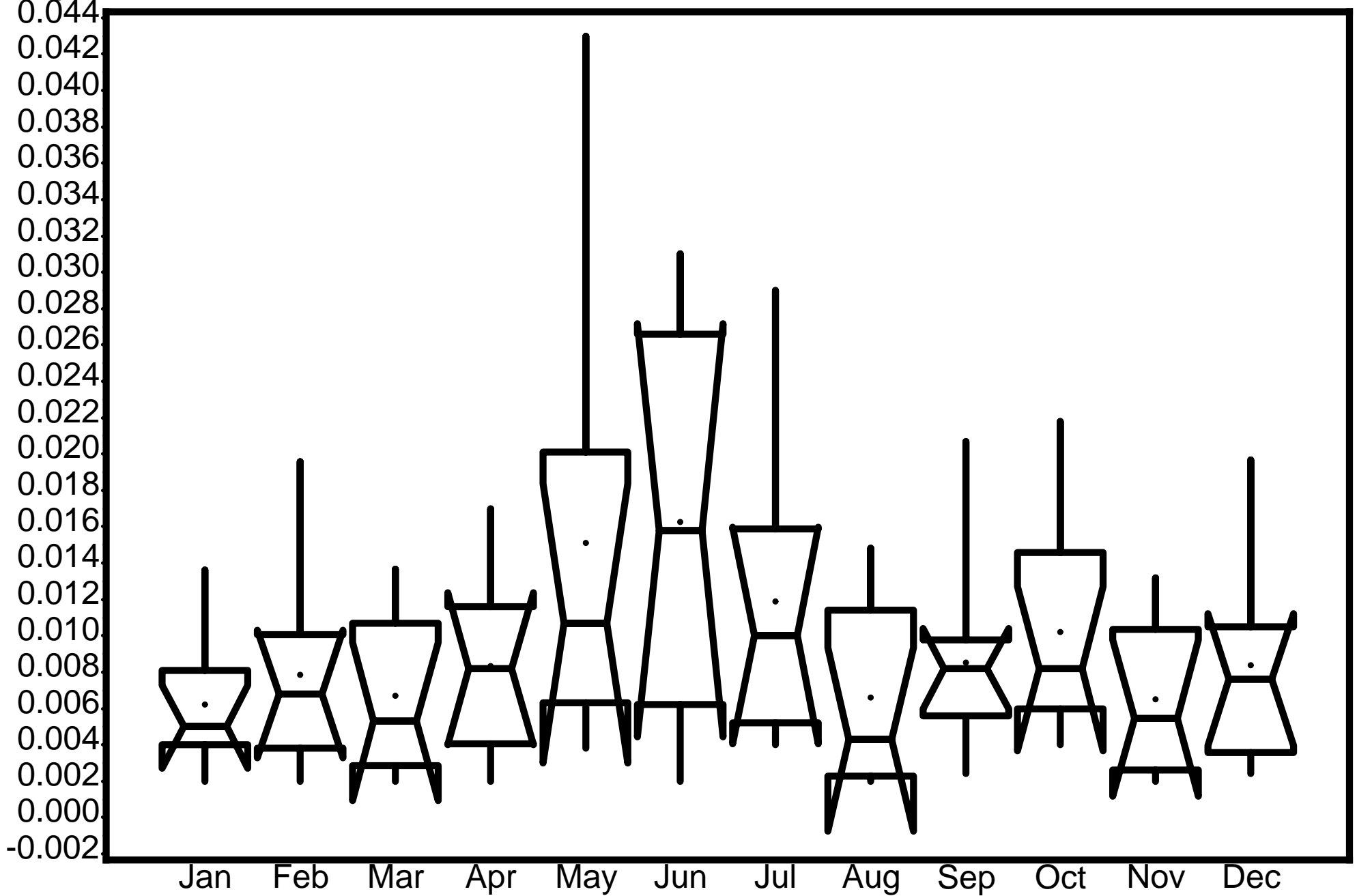


Estero Bay Trends Appendix - Display 823

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Estero Bay

PO4_mgl
(mg/l)



Estero Bay Trends Appendix - Display 824

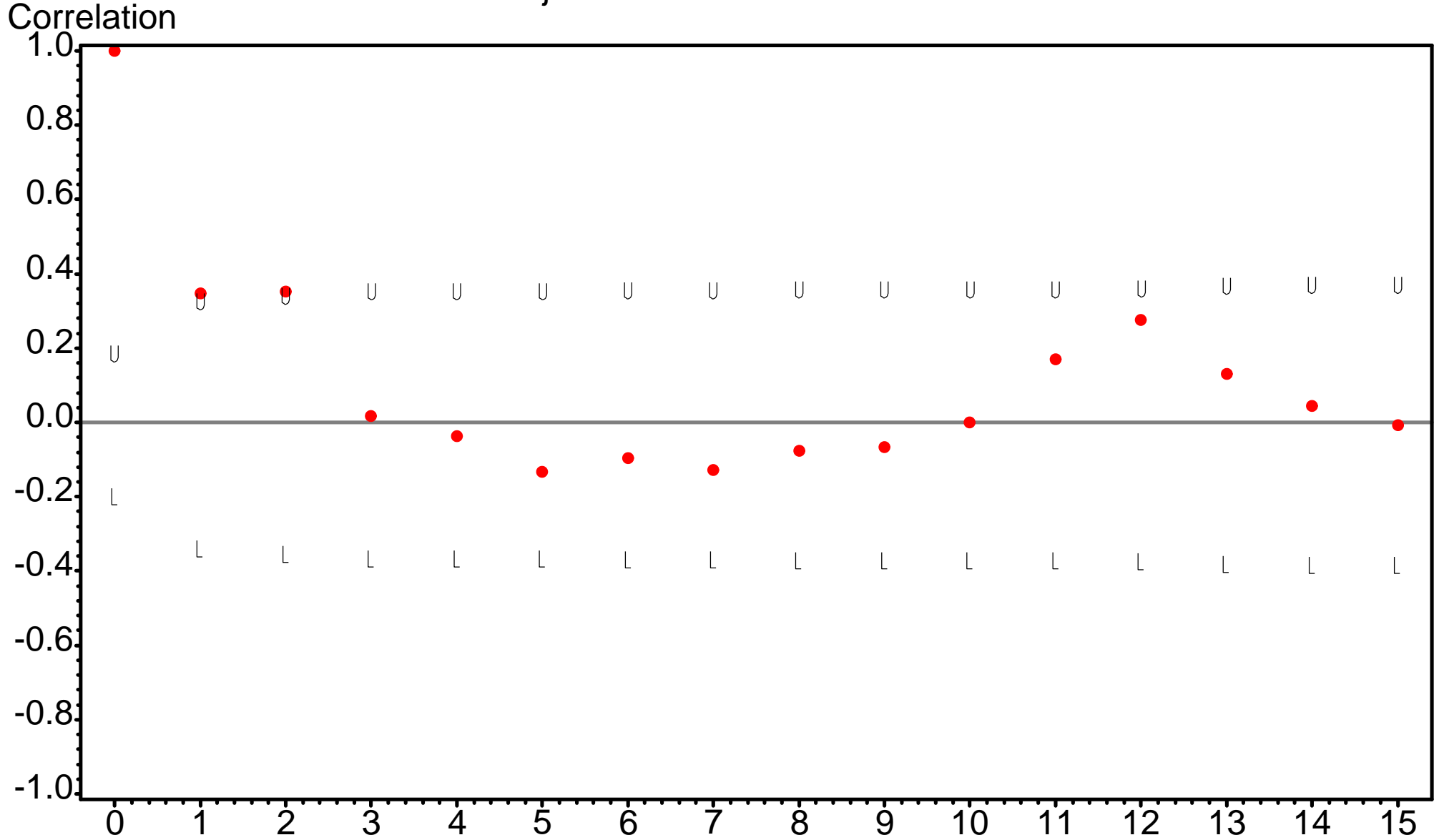
Autocorrelation Statistics for Surface Orthophosphate (as P) in Estero Bay

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.346	0.167	0.333	-0.333
2	0.351	0.173	0.346	-0.346
3	0.018	0.180	0.359	-0.359
4	-0.036	0.180	0.359	-0.359
5	-0.132	0.180	0.359	-0.359
6	-0.097	0.181	0.361	-0.361
7	-0.127	0.181	0.362	-0.362
8	-0.076	0.182	0.364	-0.364
9	-0.066	0.182	0.364	-0.364
10	-0.001	0.182	0.365	-0.365
11	0.171	0.182	0.365	-0.365
12	0.277	0.184	0.368	-0.368
13	0.130	0.188	0.375	-0.375
14	0.044	0.189	0.377	-0.377
15	-0.007	0.189	0.377	-0.377

Estero Bay Trends Appendix - Display 825

Correlogram for Surface Orthophosphate (as P) in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 826
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Estero Bay
Unadjusted for Seasonal Medians

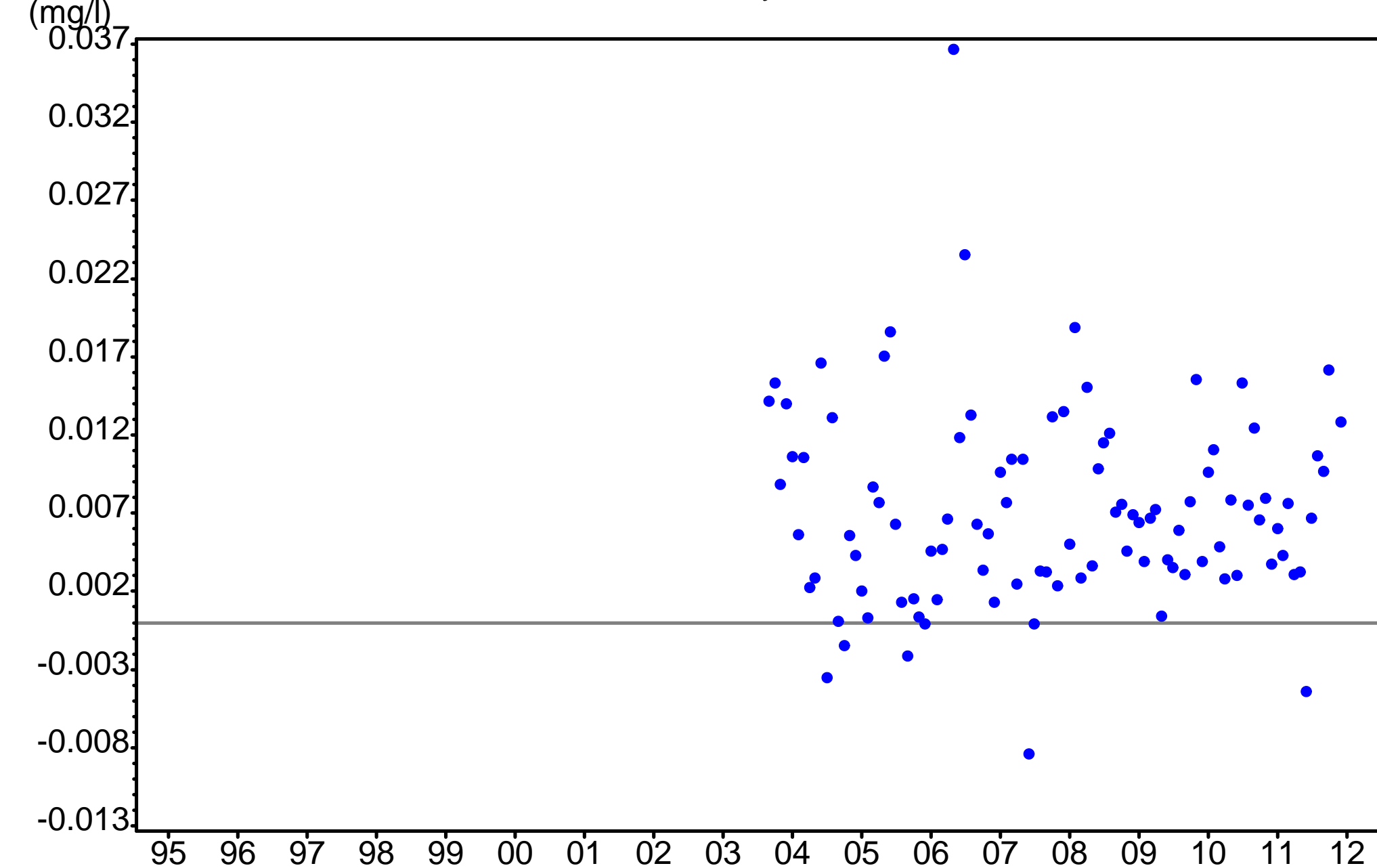
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.213	.002	.002	-.001

Estero Bay Trends Appendix - Display 827
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.25	.0021261	0.012511	-.001

Estero Bay Trends Appendix - Display 828

Time Series Plot of Surface Orthophosphate (as P) Data Adjusted for Season and Detrended
Adjusted Estero Bay



Zero Reference Line Shown

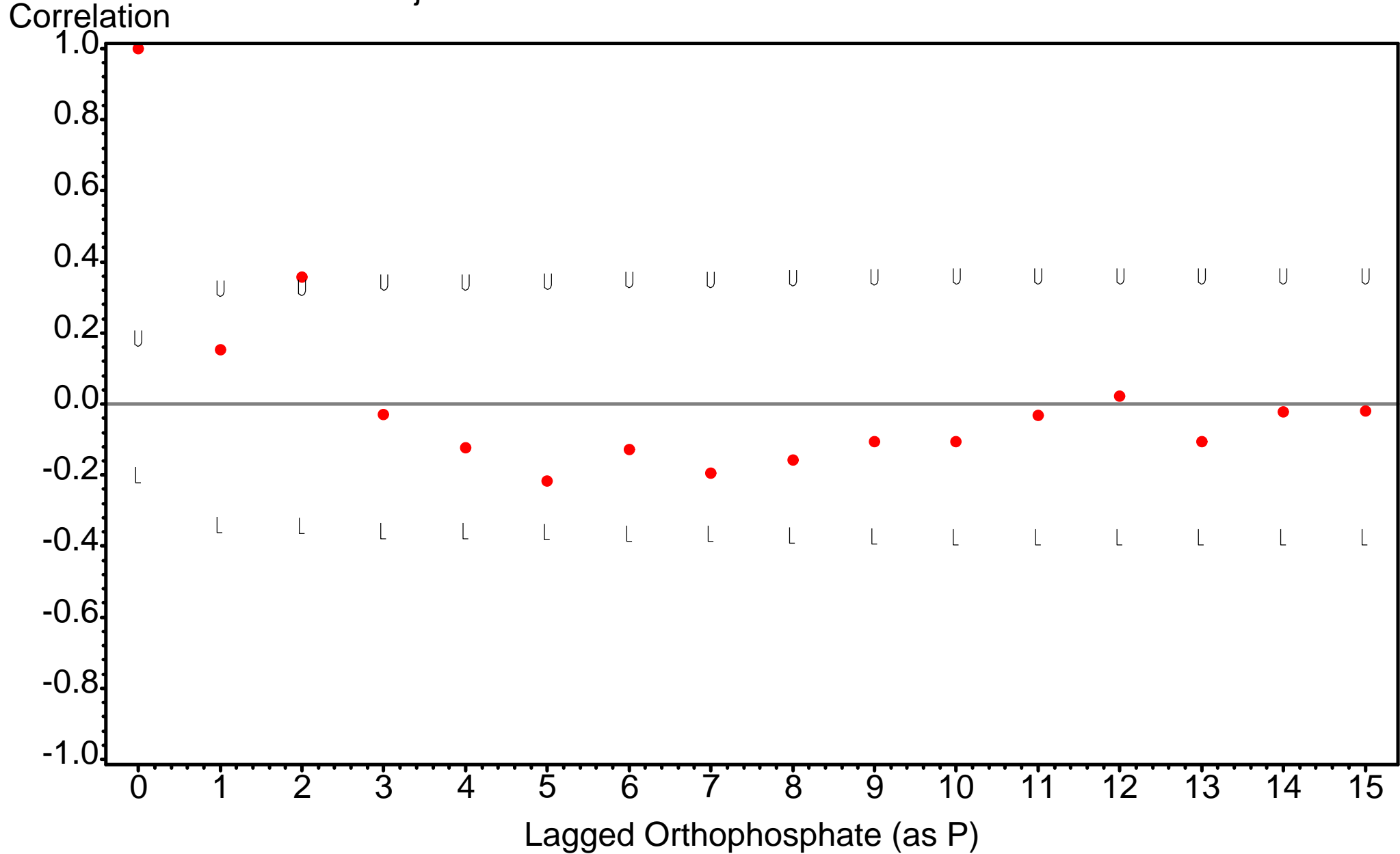
Estero Bay Trends Appendix - Display 829
Autocorrelation Statistics for Surface Orthophosphate (as P) in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.152	0.167	0.333	-0.333
2	0.357	0.168	0.336	-0.336
3	-0.029	0.175	0.350	-0.350
4	-0.122	0.175	0.350	-0.350
5	-0.217	0.176	0.351	-0.351
6	-0.129	0.178	0.356	-0.356
7	-0.195	0.179	0.358	-0.358
8	-0.157	0.181	0.362	-0.362
9	-0.106	0.182	0.364	-0.364
10	-0.106	0.183	0.366	-0.366
11	-0.031	0.183	0.367	-0.367
12	0.021	0.183	0.367	-0.367
13	-0.106	0.183	0.367	-0.367
14	-0.021	0.184	0.368	-0.368
15	-0.020	0.184	0.368	-0.368

Estero Bay Trends Appendix - Display 830

Correlogram for Surface Orthophosphate (as P) in Estero Bay

Adjusted for Seasonal Median and Detrended

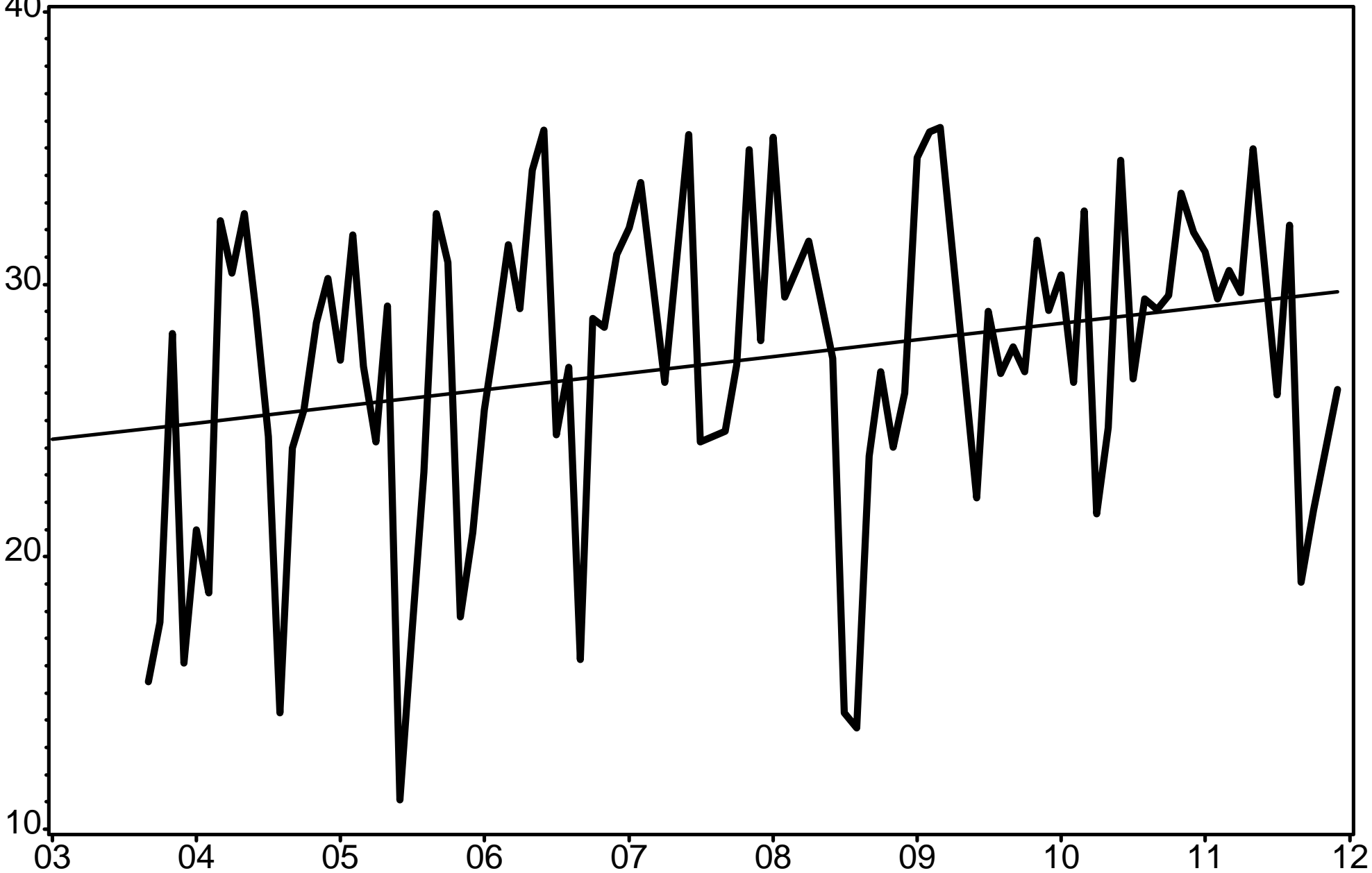


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 831

Monthly Data Time Series
for Surface Salinity in Estero Bay
Not Adjusted for Seasonal Medians

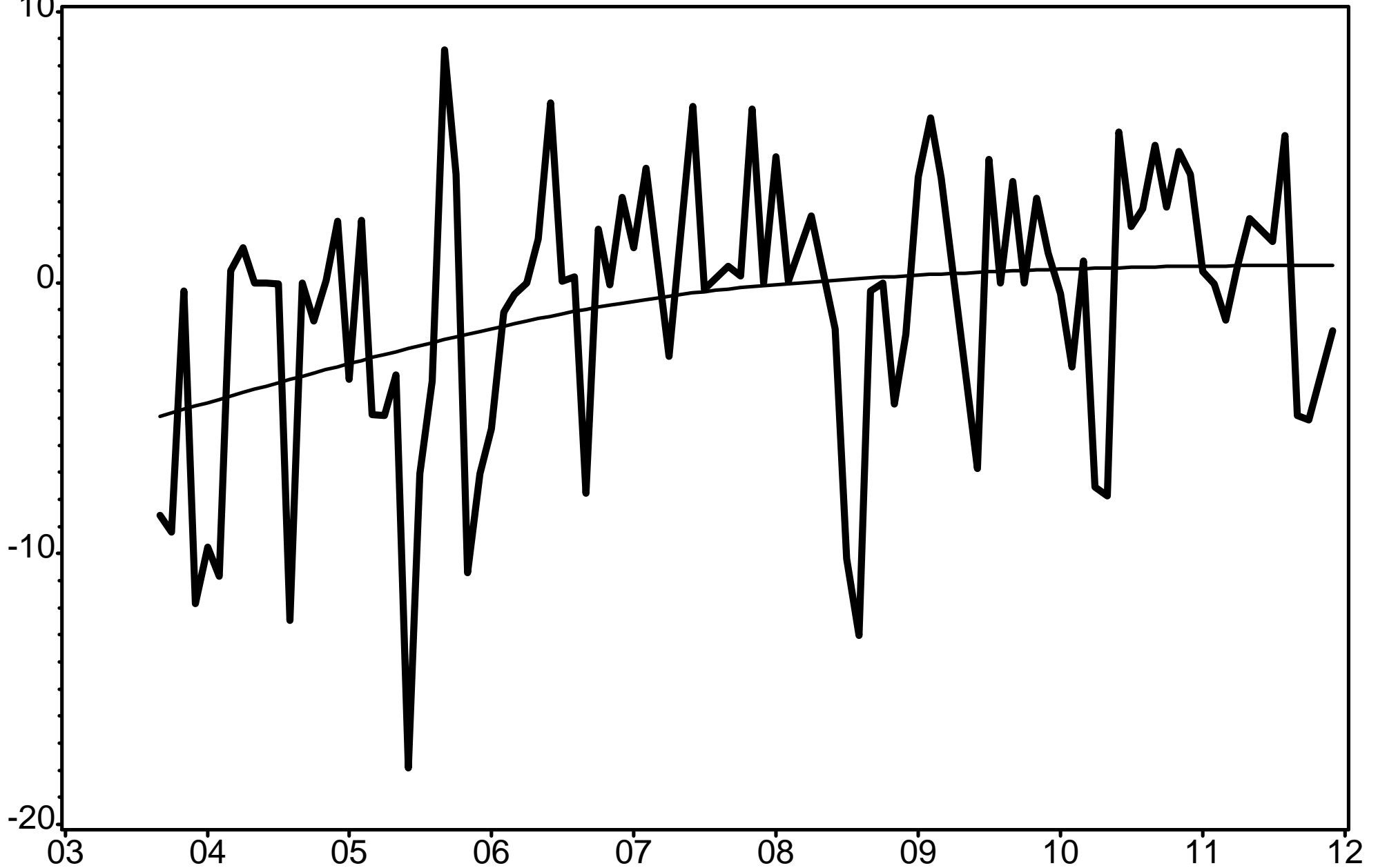
Salinity
(ppt)



Estero Bay Trends Appendix - Display 832

Monthly Data Time Series
for Surface Salinity in Estero Bay
Adjusted for Seasonal Medians

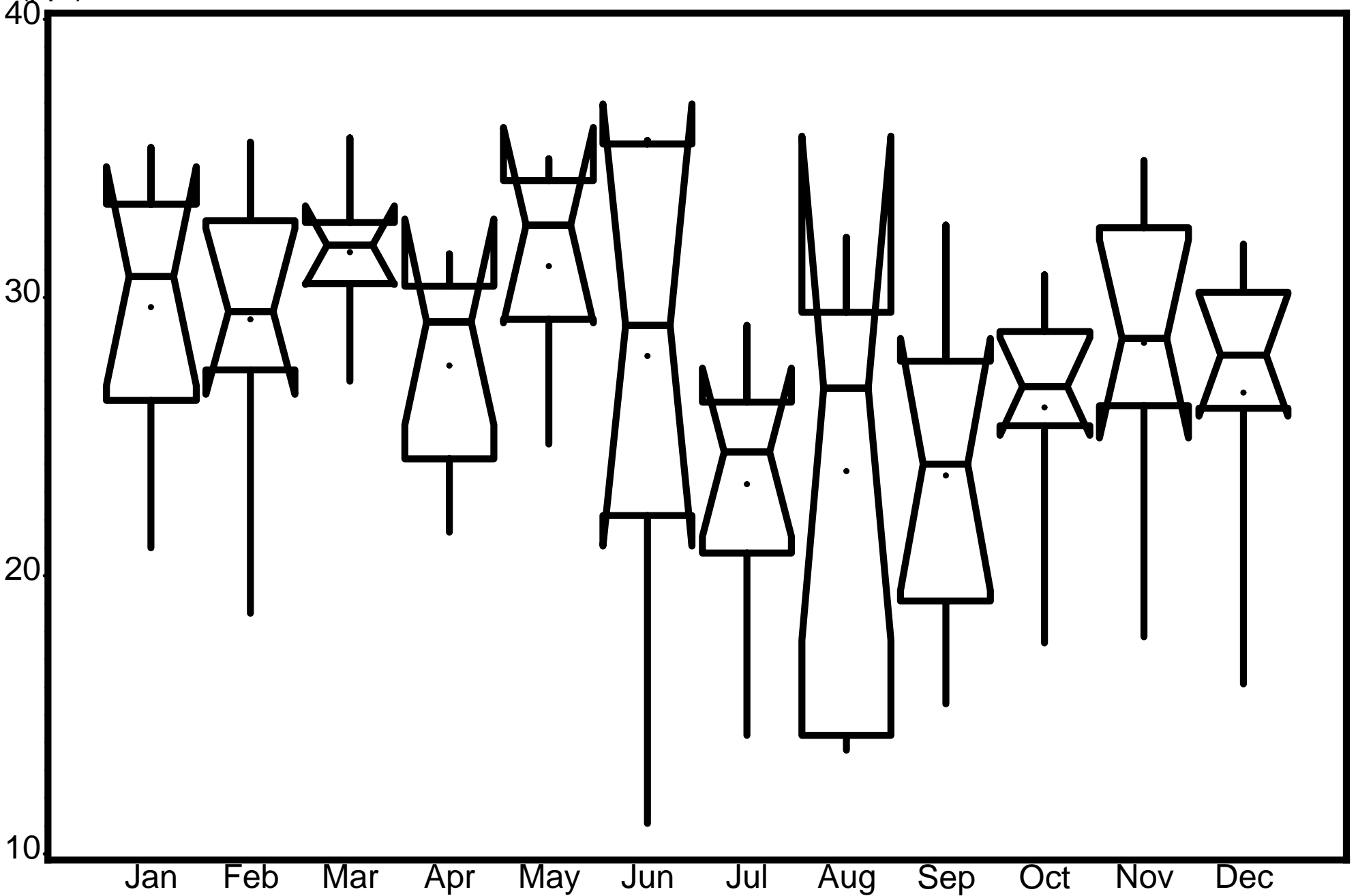
Adjusted
Salinity
(ppt)



Estero Bay Trends Appendix - Display 833

Seasonal Univariate Statistics for Surface Salinity in Estero Bay

Salinity
(ppt)

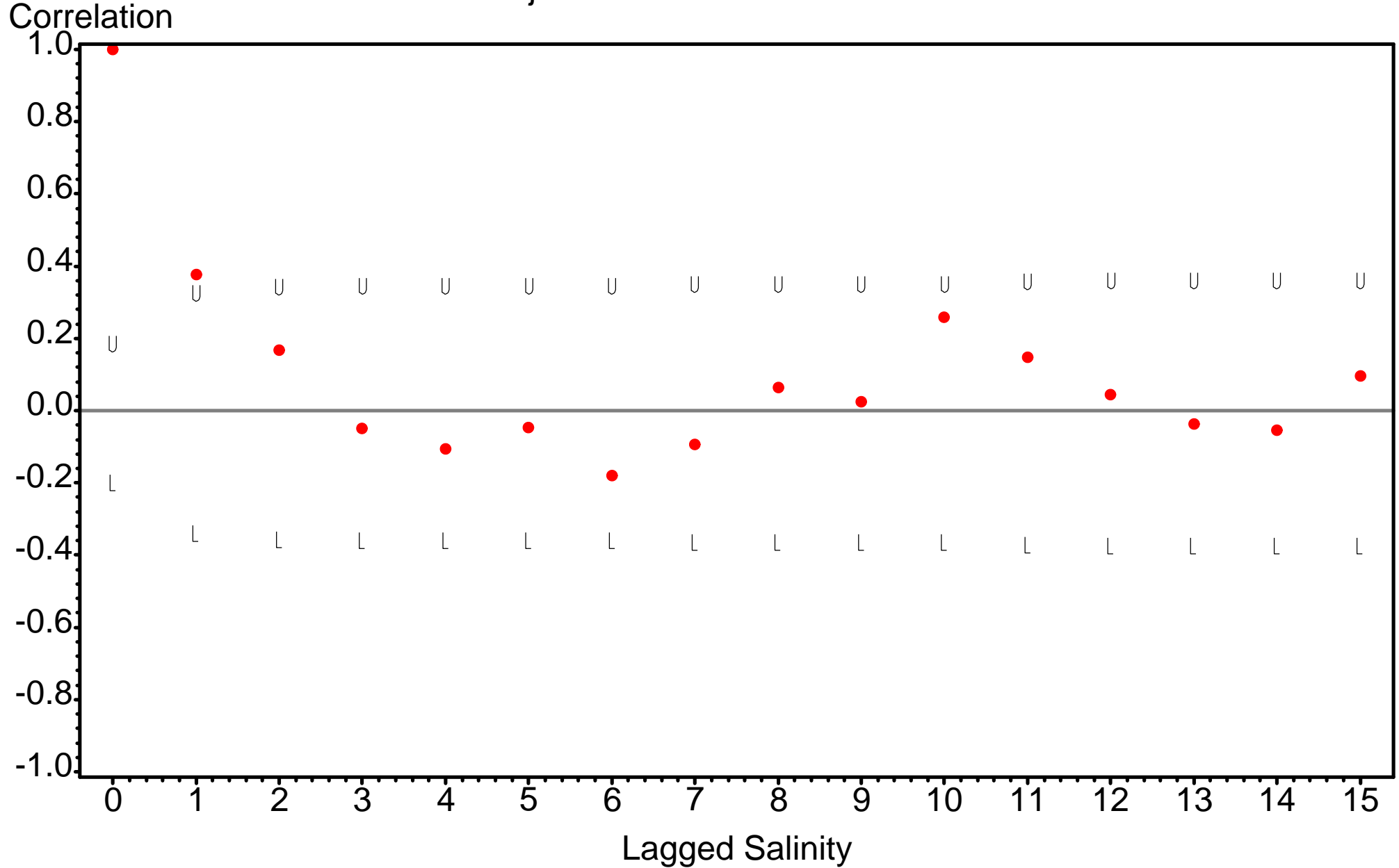


Estero Bay Trends Appendix - Display 834
Autocorrelation Statistics for Surface Salinity in Estero Bay

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.376	0.167	0.333	-0.333
2	0.167	0.174	0.349	-0.349
3	-0.050	0.176	0.352	-0.352
4	-0.107	0.176	0.352	-0.352
5	-0.046	0.177	0.353	-0.353
6	-0.179	0.177	0.353	-0.353
7	-0.093	0.178	0.357	-0.357
8	0.065	0.179	0.358	-0.358
9	0.024	0.179	0.358	-0.358
10	0.258	0.179	0.358	-0.358
11	0.148	0.182	0.365	-0.365
12	0.044	0.184	0.367	-0.367
13	-0.038	0.184	0.367	-0.367
14	-0.055	0.184	0.367	-0.367
15	0.095	0.184	0.368	-0.368

Estero Bay Trends Appendix - Display 835

Correlogram for Surface Salinity in Estero Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 836
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.163	0.022	0.022	0.546

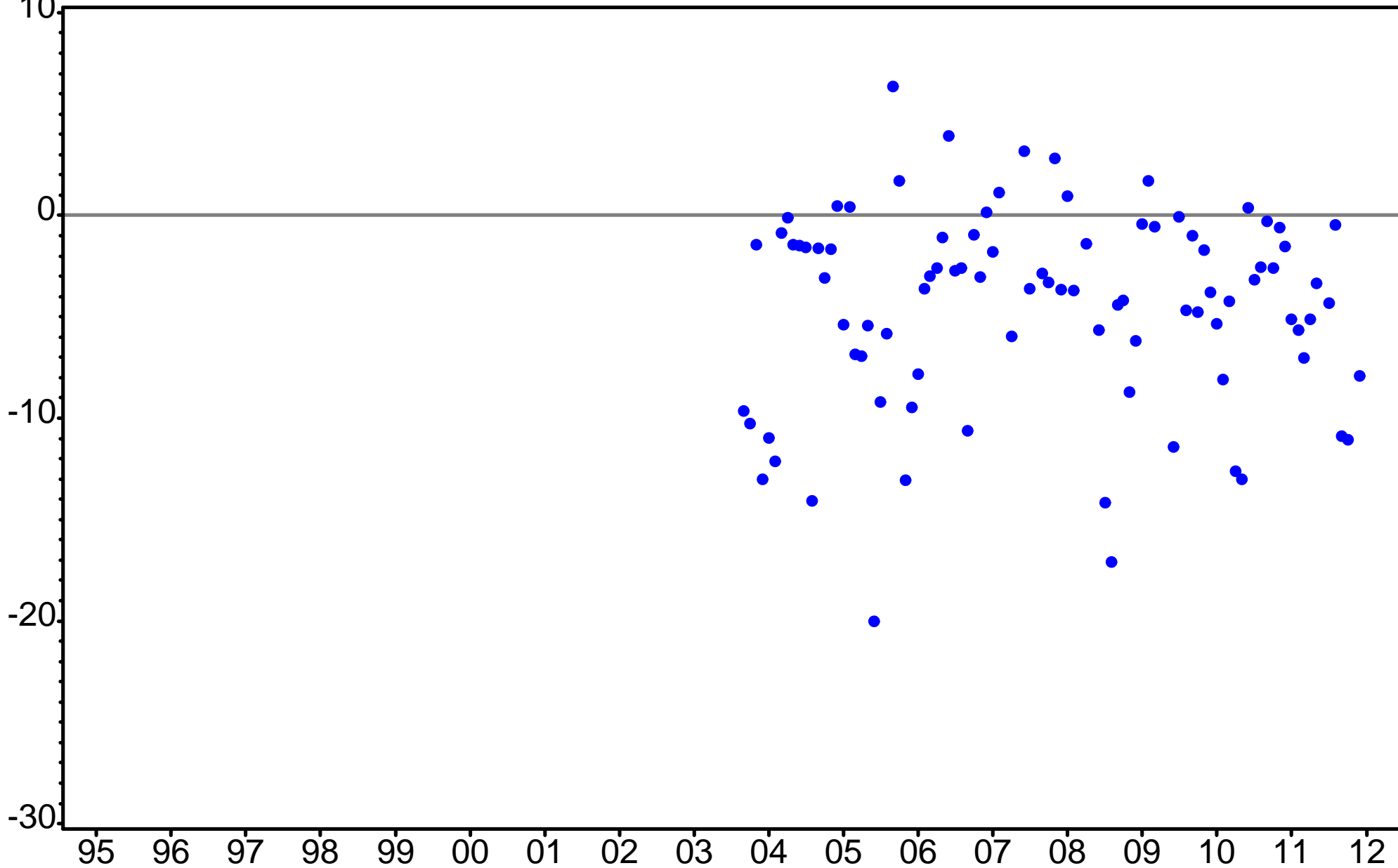
Estero Bay Trends Appendix - Display 837
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.22078	0.012242	0.057953	0.616

Estero Bay Trends Appendix - Display 838

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(ppt)



Zero Reference Line Shown

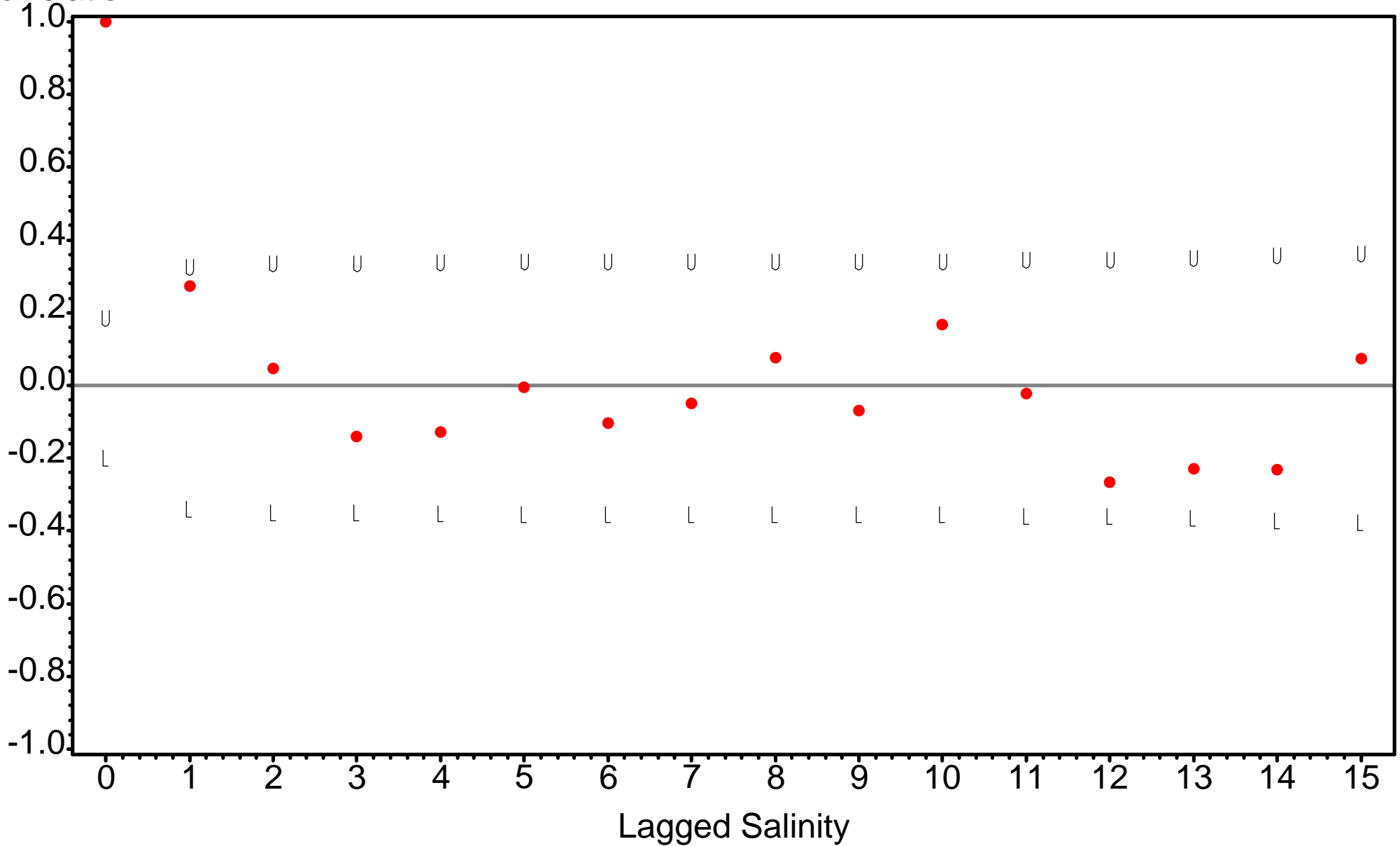
Estero Bay Trends Appendix - Display 839
Autocorrelation Statistics for Surface Salinity in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.274	0.167	0.333	-0.333
2	0.046	0.171	0.342	-0.342
3	-0.140	0.171	0.342	-0.342
4	-0.127	0.172	0.344	-0.344
5	-0.004	0.173	0.346	-0.346
6	-0.103	0.173	0.346	-0.346
7	-0.049	0.173	0.347	-0.347
8	0.077	0.174	0.347	-0.347
9	-0.070	0.174	0.348	-0.348
10	0.167	0.174	0.348	-0.348
11	-0.021	0.176	0.351	-0.351
12	-0.265	0.176	0.351	-0.351
13	-0.230	0.179	0.358	-0.358
14	-0.231	0.182	0.364	-0.364
15	0.075	0.185	0.369	-0.369

Estero Bay Trends Appendix - Display 840

Correlogram for Surface Salinity in Estero Bay
Adjusted for Seasonal Median and Detrended

Correlation

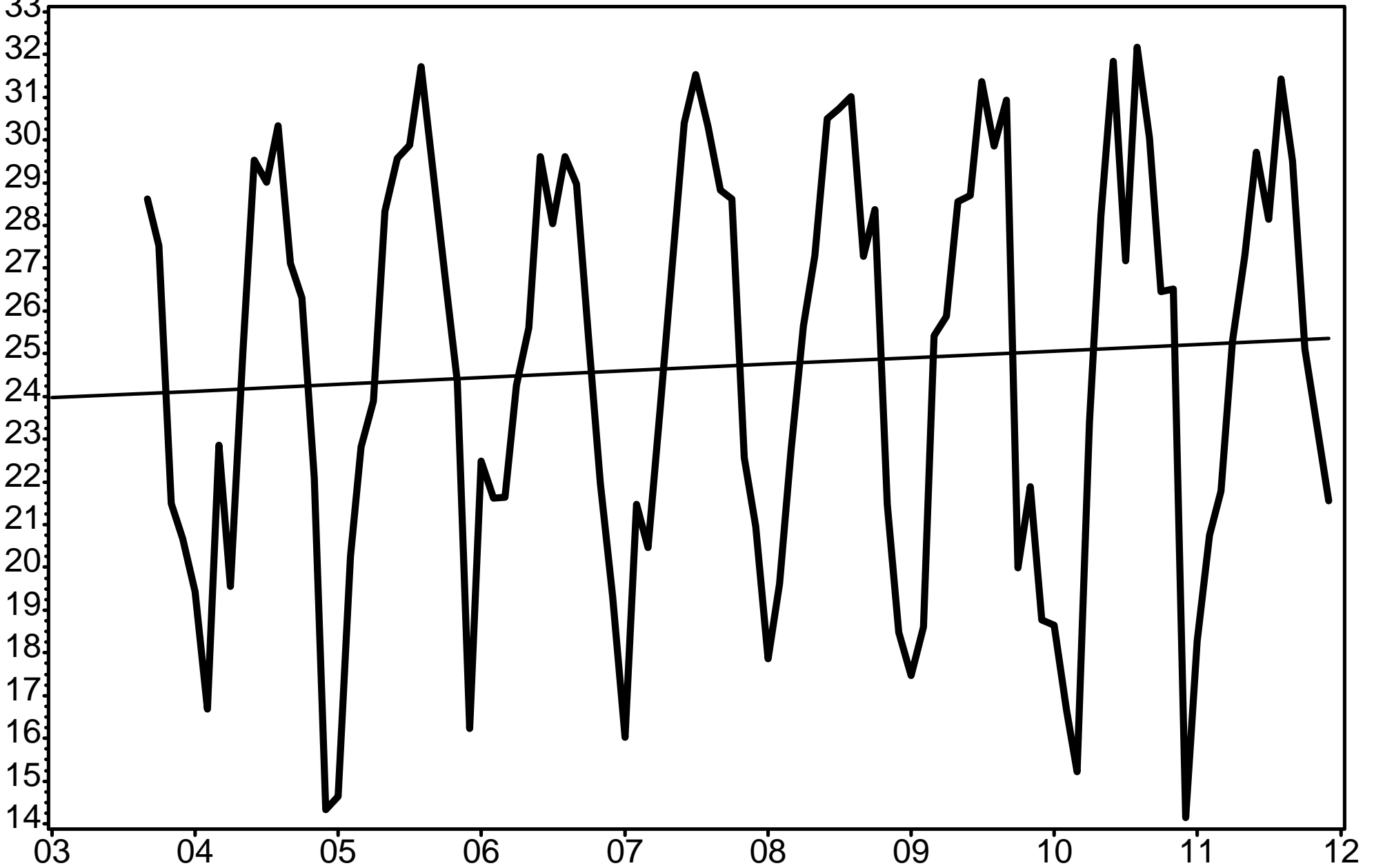


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 841

Monthly Data Time Series
for Surface Temperature in Estero Bay
Not Adjusted for Seasonal Medians

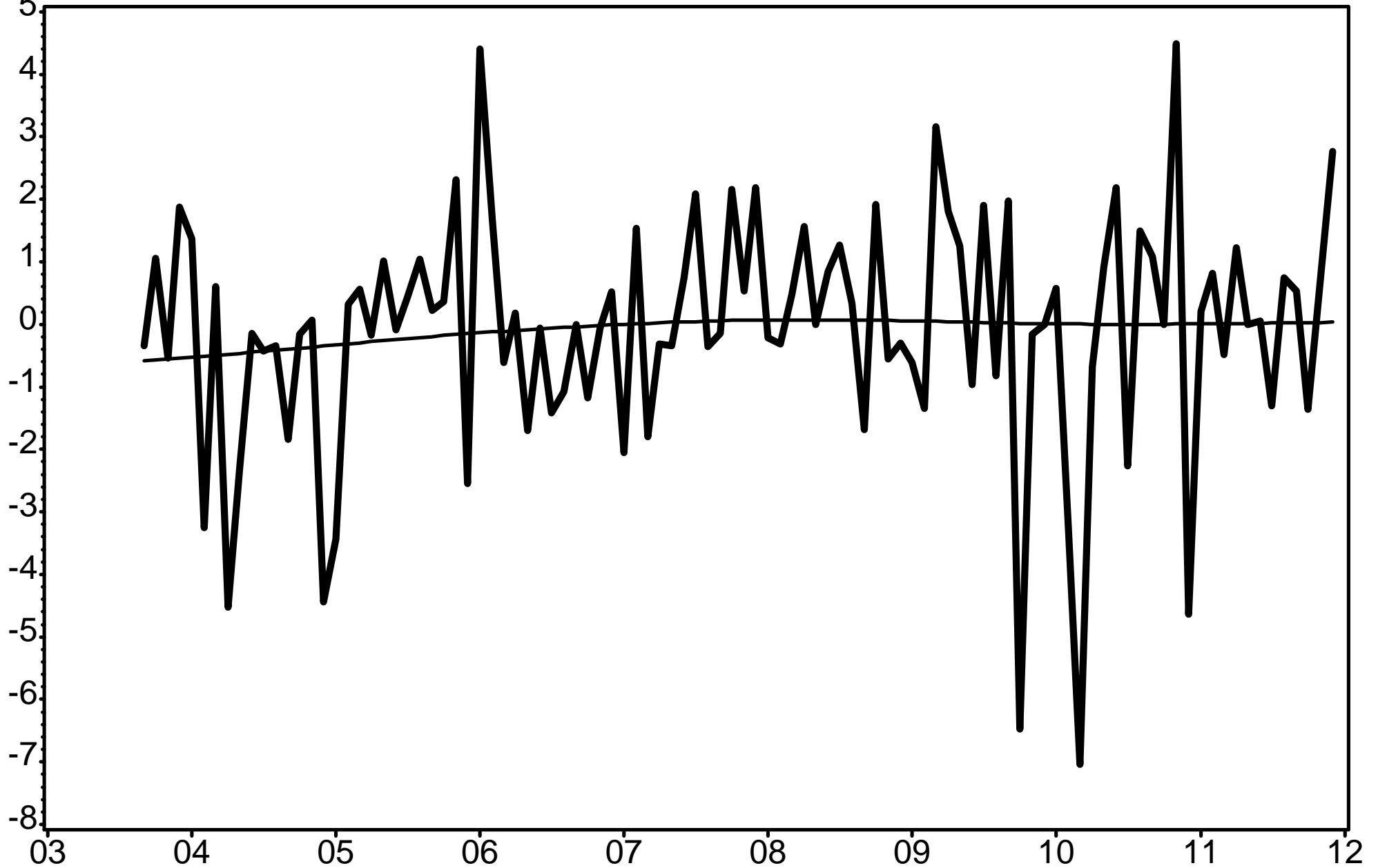
TEMP_C
(Degree C)



Estero Bay Trends Appendix - Display 842

Monthly Data Time Series
for Surface Temperature in Estero Bay
Adjusted for Seasonal Medians

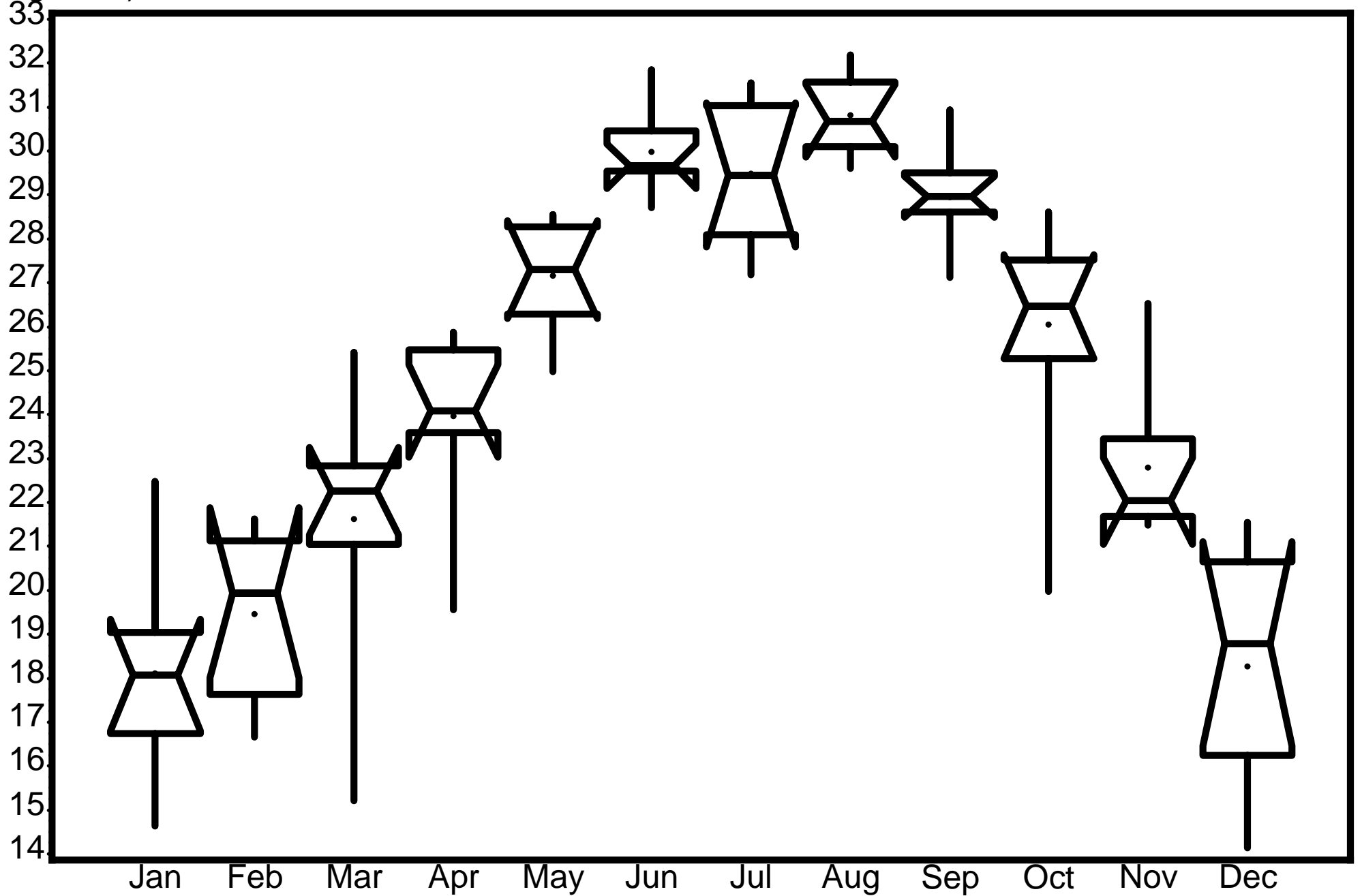
Adjusted
TEMP_C
(Degree C)



Estero Bay Trends Appendix - Display 843

Seasonal Univariate Statistics
for Surface Temperature in Estero Bay

TEMP_C
(Degree C)



Estero Bay Trends Appendix - Display 844

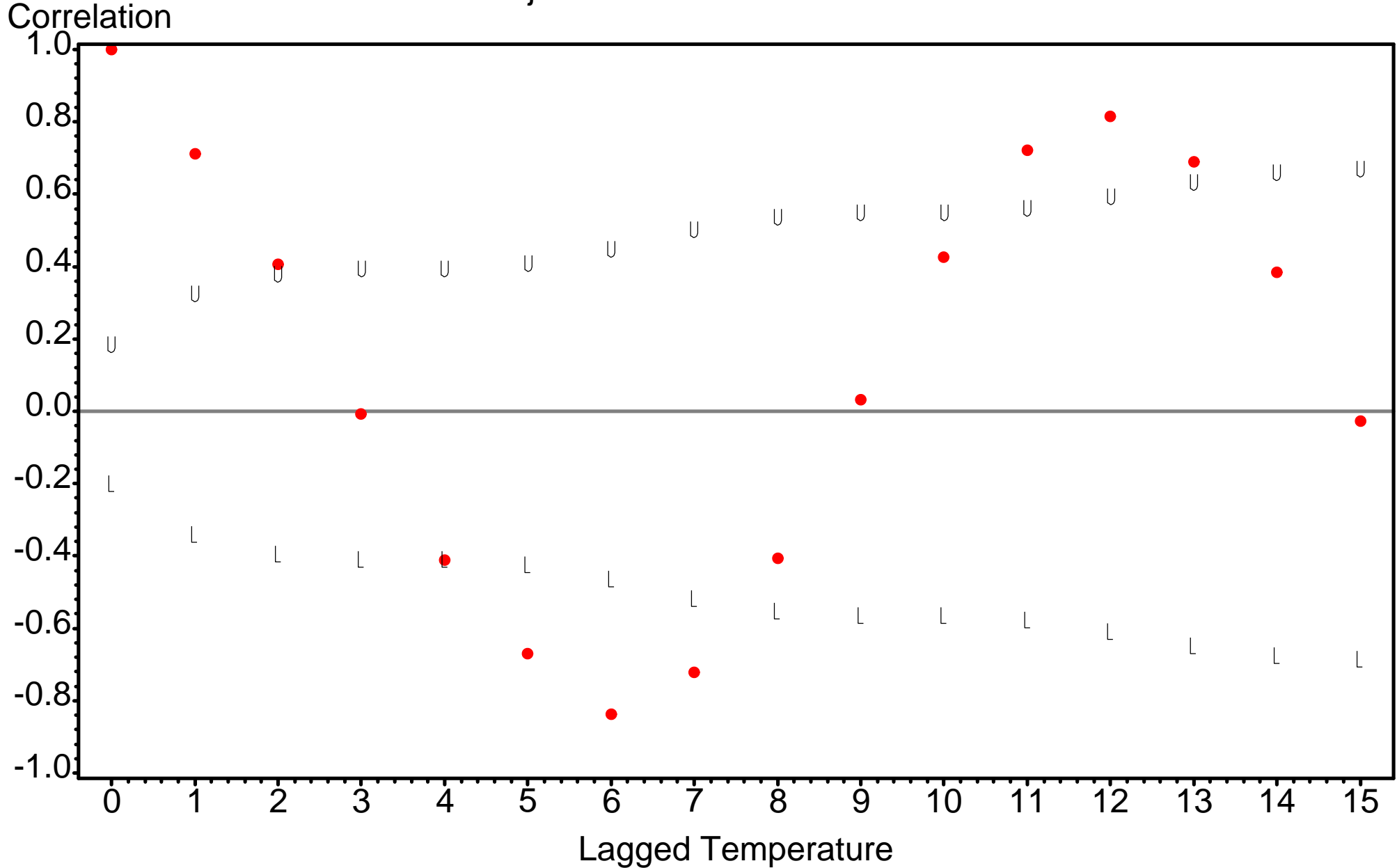
Autocorrelation Statistics for Surface Temperature in Estero Bay

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.712	0.167	0.333	-0.333
2	0.407	0.193	0.386	-0.386
3	-0.007	0.201	0.401	-0.401
4	-0.412	0.201	0.401	-0.401
5	-0.669	0.208	0.417	-0.417
6	-0.837	0.227	0.455	-0.455
7	-0.722	0.254	0.509	-0.509
8	-0.406	0.273	0.545	-0.545
9	0.031	0.278	0.556	-0.556
10	0.425	0.278	0.556	-0.556
11	0.721	0.284	0.568	-0.568
12	0.815	0.301	0.601	-0.601
13	0.690	0.320	0.641	-0.641
14	0.383	0.334	0.668	-0.668
15	-0.028	0.338	0.676	-0.676

Estero Bay Trends Appendix - Display 845

Correlogram for Surface Temperature in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 846
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.055	0.42	0.42	0.185

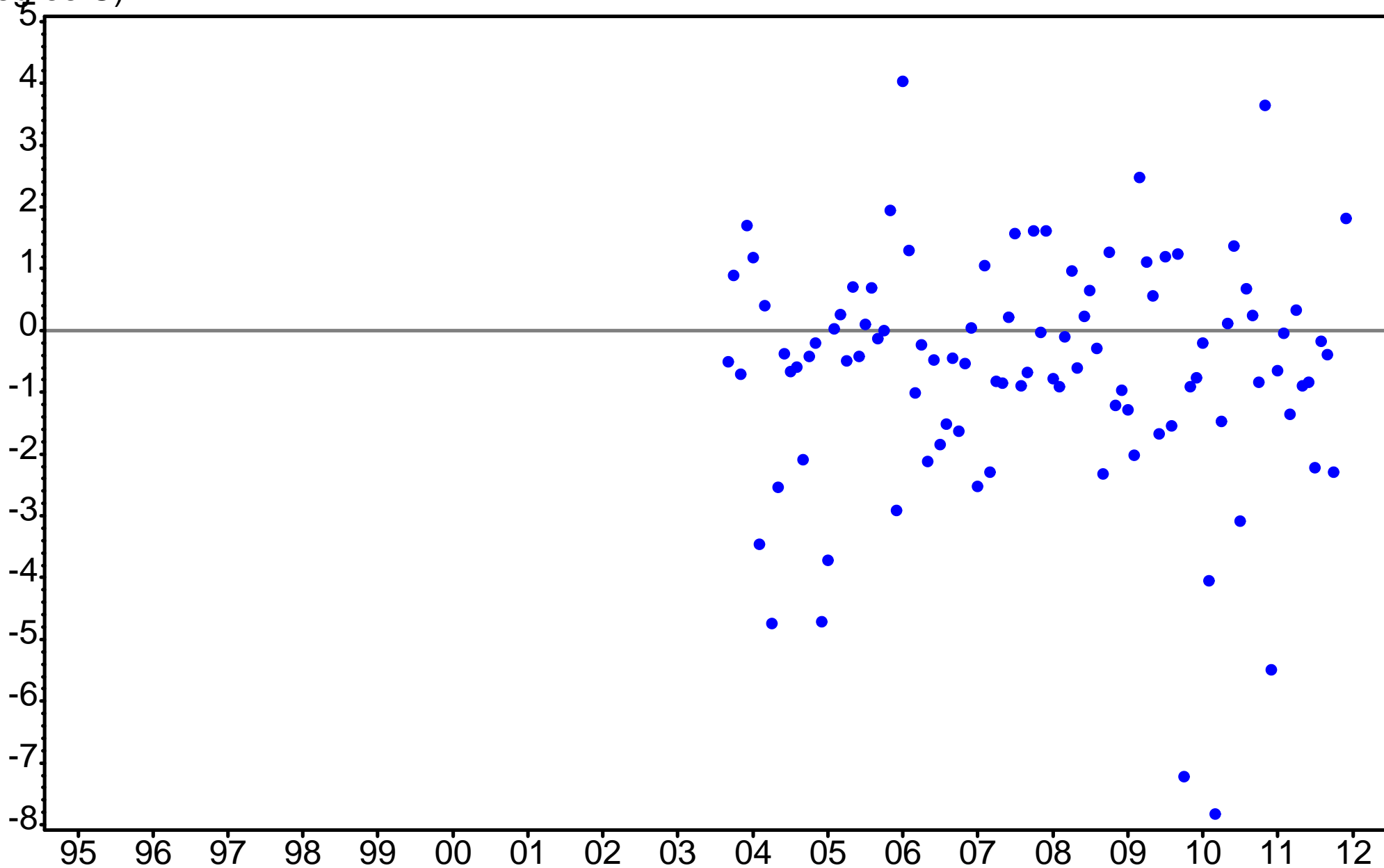
Estero Bay Trends Appendix - Display 847
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10833	0.19583	0.11115	0.096

Estero Bay Trends Appendix - Display 848

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(Degree C)



Zero Reference Line Shown

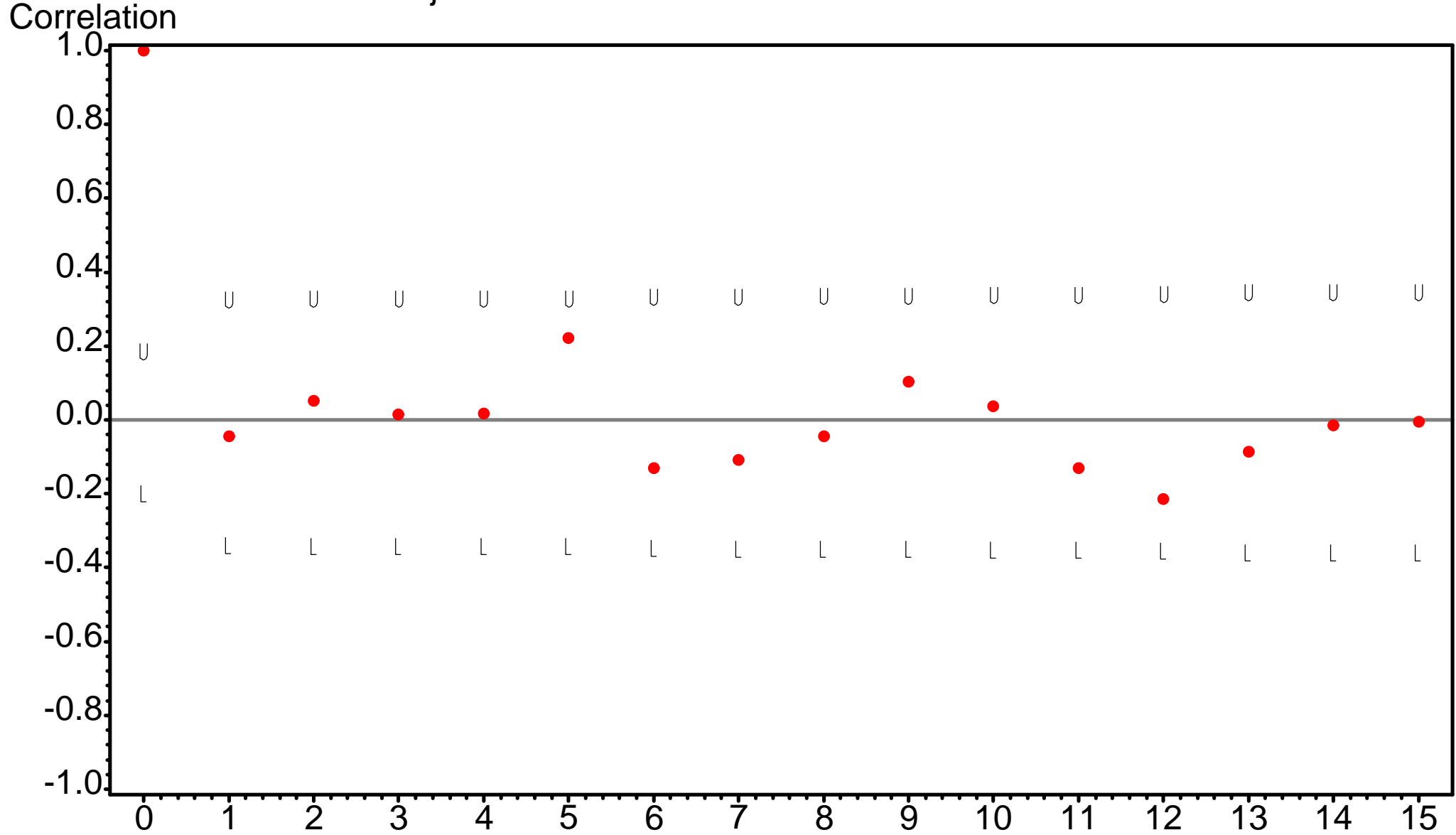
Estero Bay Trends Appendix - Display 849
Autocorrelation Statistics for Surface Temperature in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.045	0.167	0.333	-0.333
2	0.052	0.167	0.334	-0.334
3	0.015	0.167	0.334	-0.334
4	0.018	0.167	0.334	-0.334
5	0.222	0.167	0.334	-0.334
6	-0.130	0.170	0.339	-0.339
7	-0.108	0.171	0.341	-0.341
8	-0.045	0.171	0.342	-0.342
9	0.103	0.171	0.343	-0.343
10	0.038	0.172	0.344	-0.344
11	-0.131	0.172	0.344	-0.344
12	-0.214	0.173	0.346	-0.346
13	-0.087	0.175	0.351	-0.351
14	-0.014	0.176	0.351	-0.351
15	-0.005	0.176	0.352	-0.352

Estero Bay Trends Appendix - Display 850

Correlogram for Surface Temperature in Estero Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

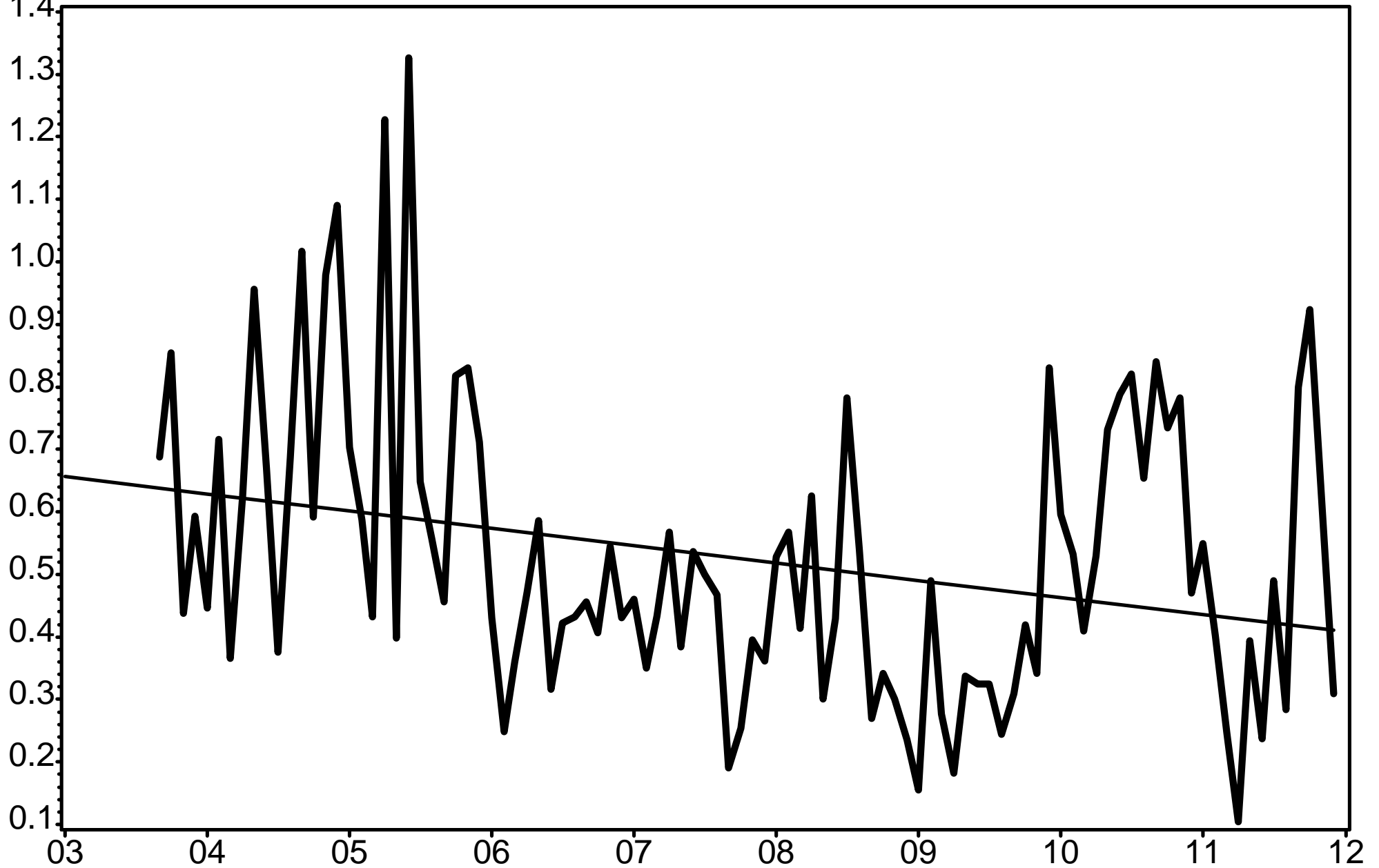
Estero Bay Trends Appendix - Display 851

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Estero Bay

Not Adjusted for Seasonal Medians

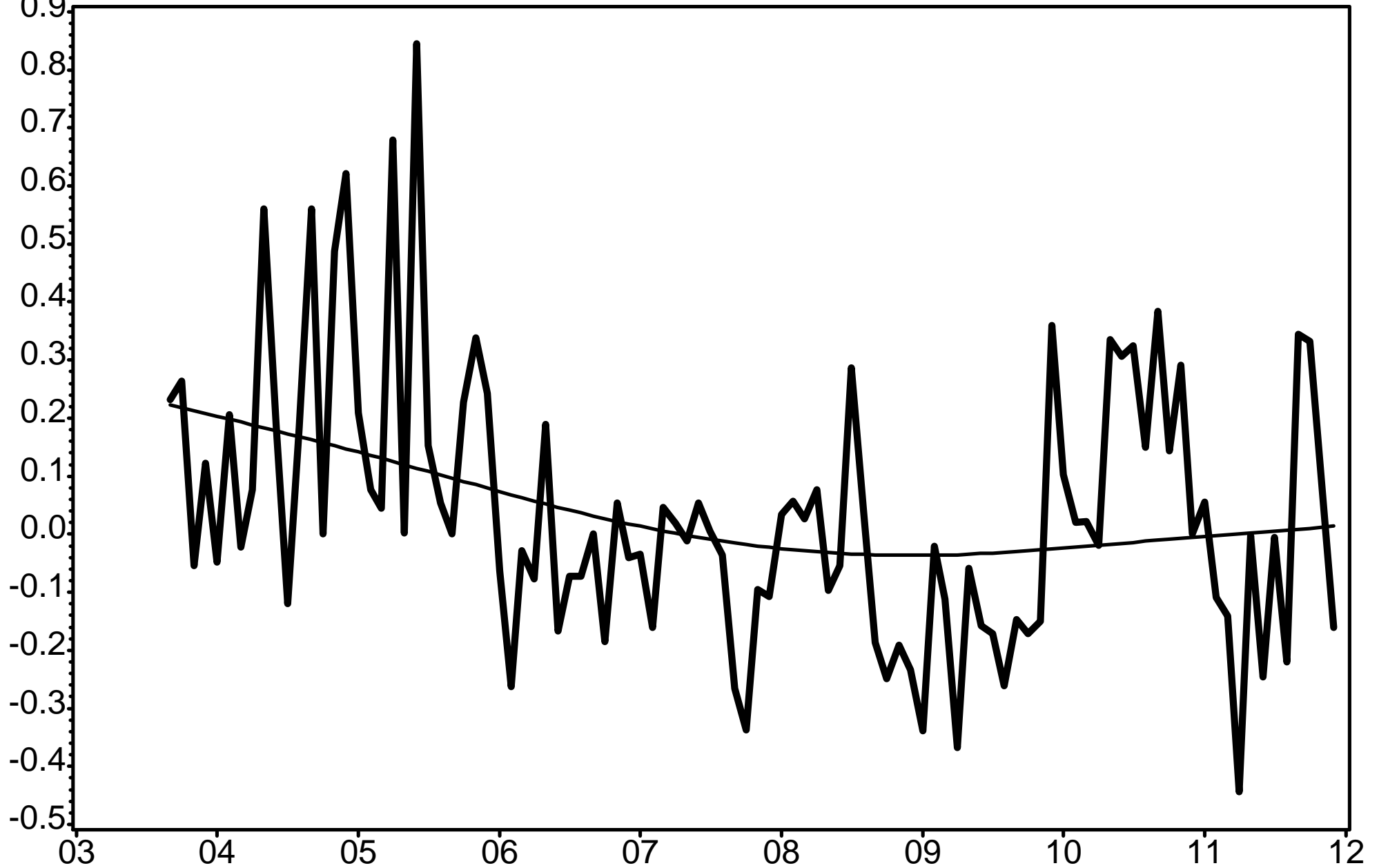
TKN_mgl
(mg/l)



Estero Bay Trends Appendix - Display 852

Monthly Data Time Series
for Surface Total Kjeldahl Nitrogen in Estero Bay
Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

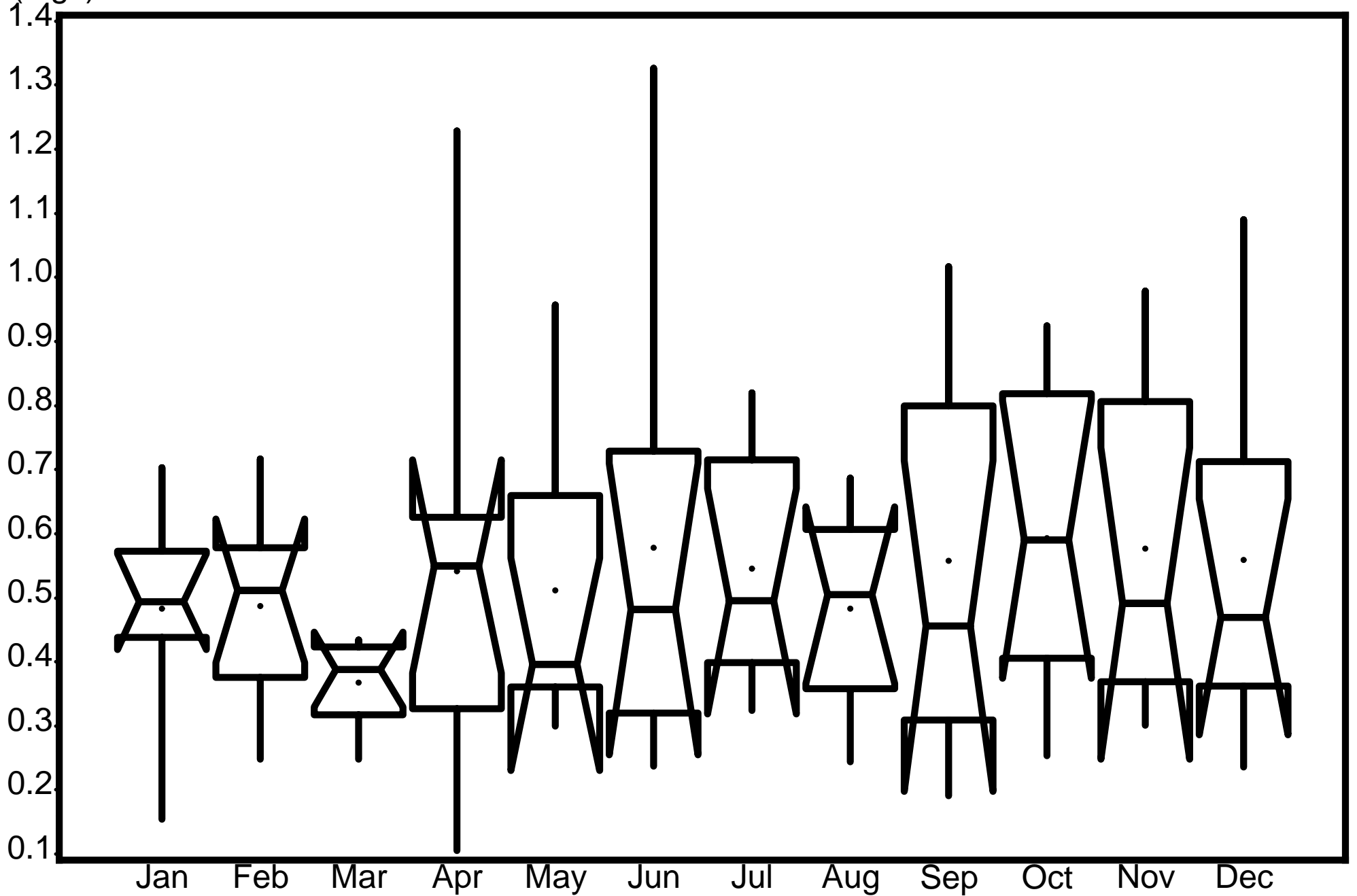


Estero Bay Trends Appendix - Display 853

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Estero Bay

TKN_mgl
(mg/l)



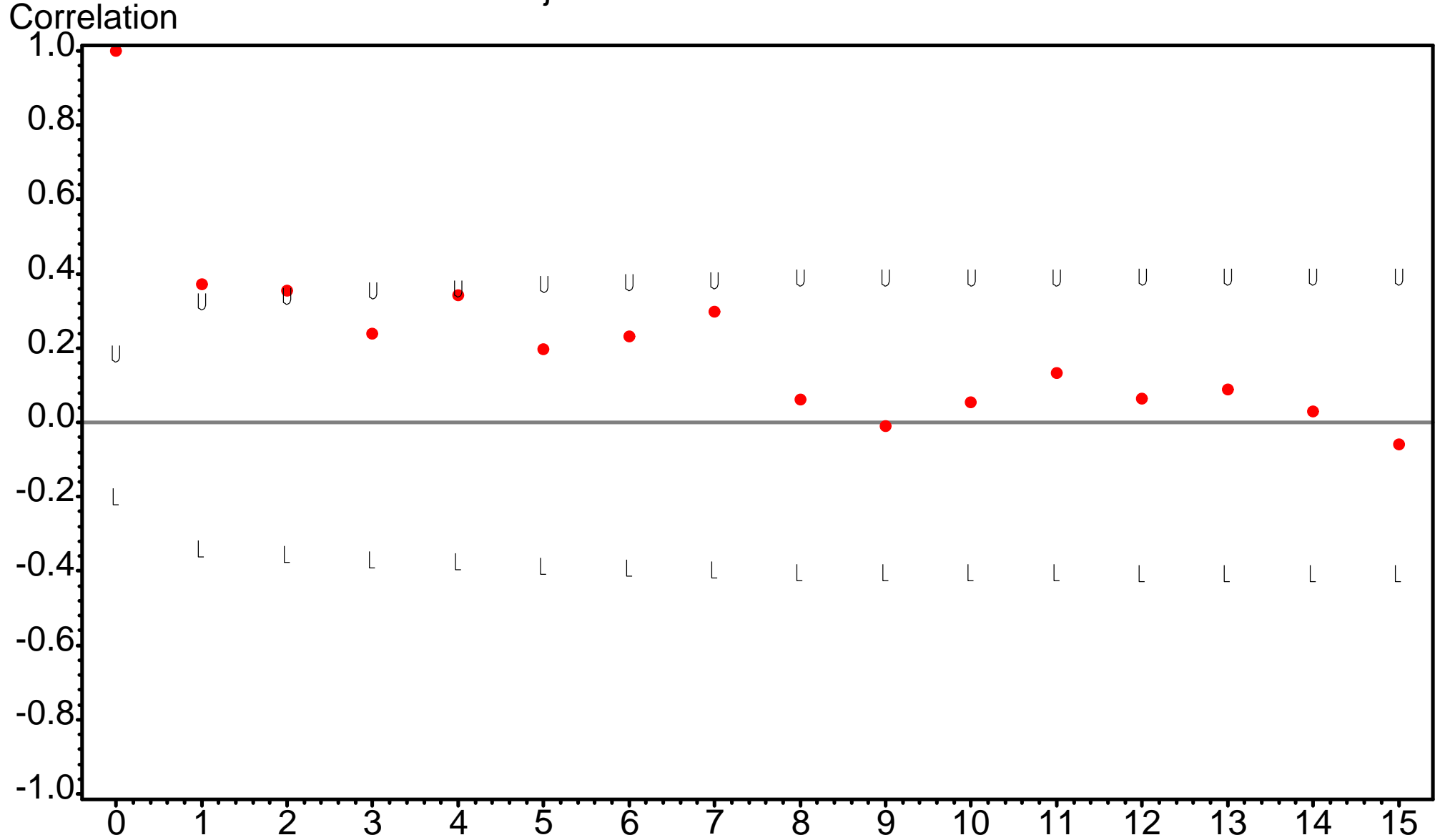
Estero Bay Trends Appendix - Display 854
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Estero Bay

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.373	0.167	0.333	-0.333
2	0.355	0.174	0.348	-0.348
3	0.240	0.181	0.362	-0.362
4	0.343	0.184	0.367	-0.367
5	0.196	0.190	0.379	-0.379
6	0.231	0.191	0.383	-0.383
7	0.299	0.194	0.388	-0.388
8	0.062	0.198	0.396	-0.396
9	-0.010	0.198	0.397	-0.397
10	0.054	0.198	0.397	-0.397
11	0.134	0.199	0.397	-0.397
12	0.064	0.199	0.399	-0.399
13	0.088	0.200	0.399	-0.399
14	0.029	0.200	0.400	-0.400
15	-0.059	0.200	0.400	-0.400

Estero Bay Trends Appendix - Display 855

Correlogram for Surface Total Kjeldahl Nitrogen in Estero Bay

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 856
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Estero Bay
Unadjusted for Seasonal Medians

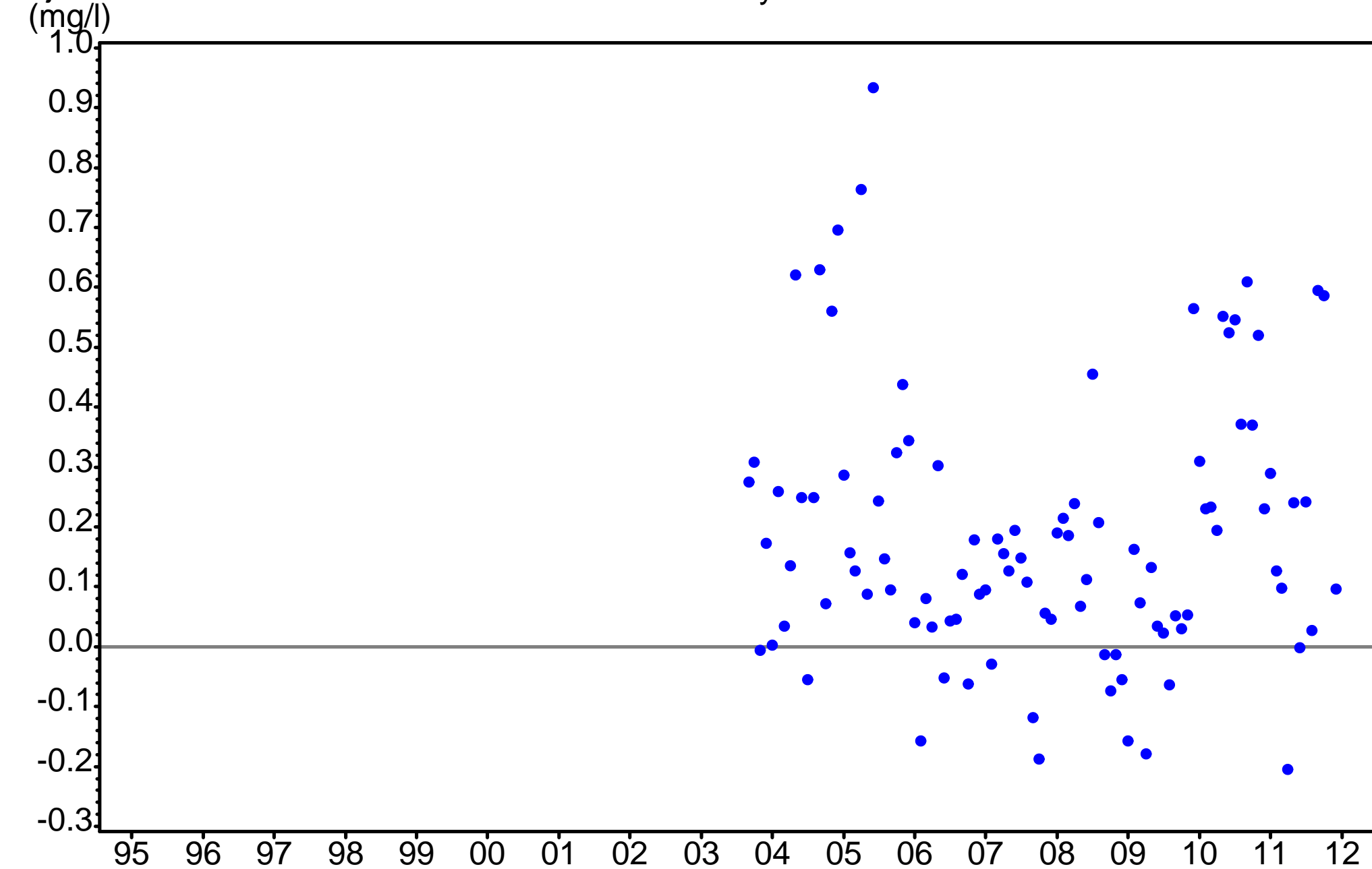
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.199	.004	.004	-0.027

Estero Bay Trends Appendix - Display 857
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21667	.00872516	0.21470	-0.025917

Estero Bay Trends Appendix - Display 858

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted Estero Bay



Zero Reference Line Shown

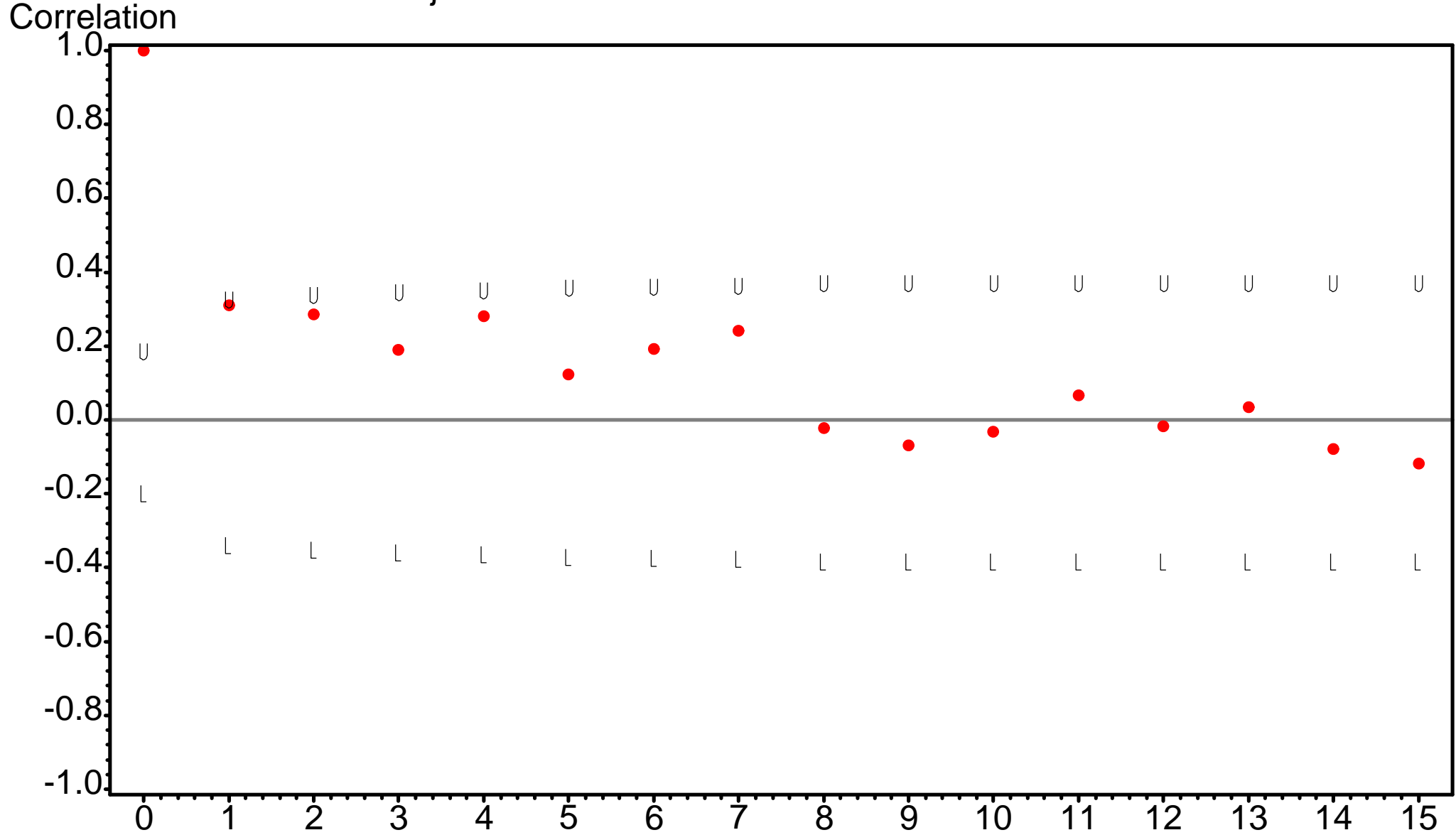
Estero Bay Trends Appendix - Display 859
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.310	0.167	0.333	-0.333
2	0.286	0.172	0.344	-0.344
3	0.189	0.176	0.353	-0.353
4	0.281	0.178	0.356	-0.356
5	0.124	0.182	0.364	-0.364
6	0.193	0.183	0.366	-0.366
7	0.242	0.185	0.370	-0.370
8	-0.022	0.188	0.376	-0.376
9	-0.069	0.188	0.376	-0.376
10	-0.032	0.188	0.376	-0.376
11	0.067	0.188	0.376	-0.376
12	-0.018	0.188	0.377	-0.377
13	0.035	0.188	0.377	-0.377
14	-0.078	0.188	0.377	-0.377
15	-0.119	0.189	0.377	-0.377

Estero Bay Trends Appendix - Display 860

Correlogram for Surface Total Kjeldahl Nitrogen in Estero Bay

Adjusted for Seasonal Median and Detrended

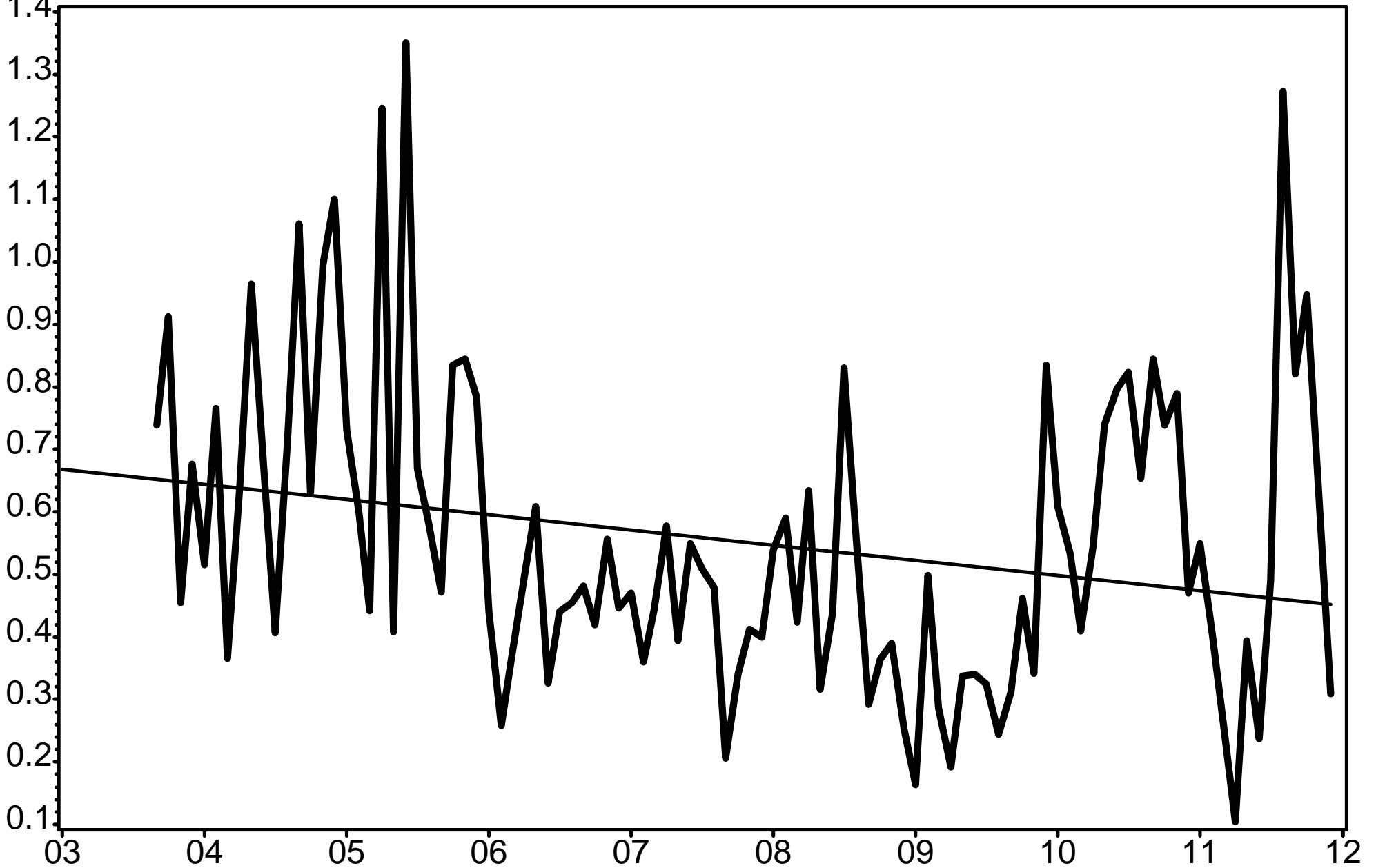


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 861

Monthly Data Time Series
for Surface Total Nitrogen in Estero Bay
Not Adjusted for Seasonal Medians

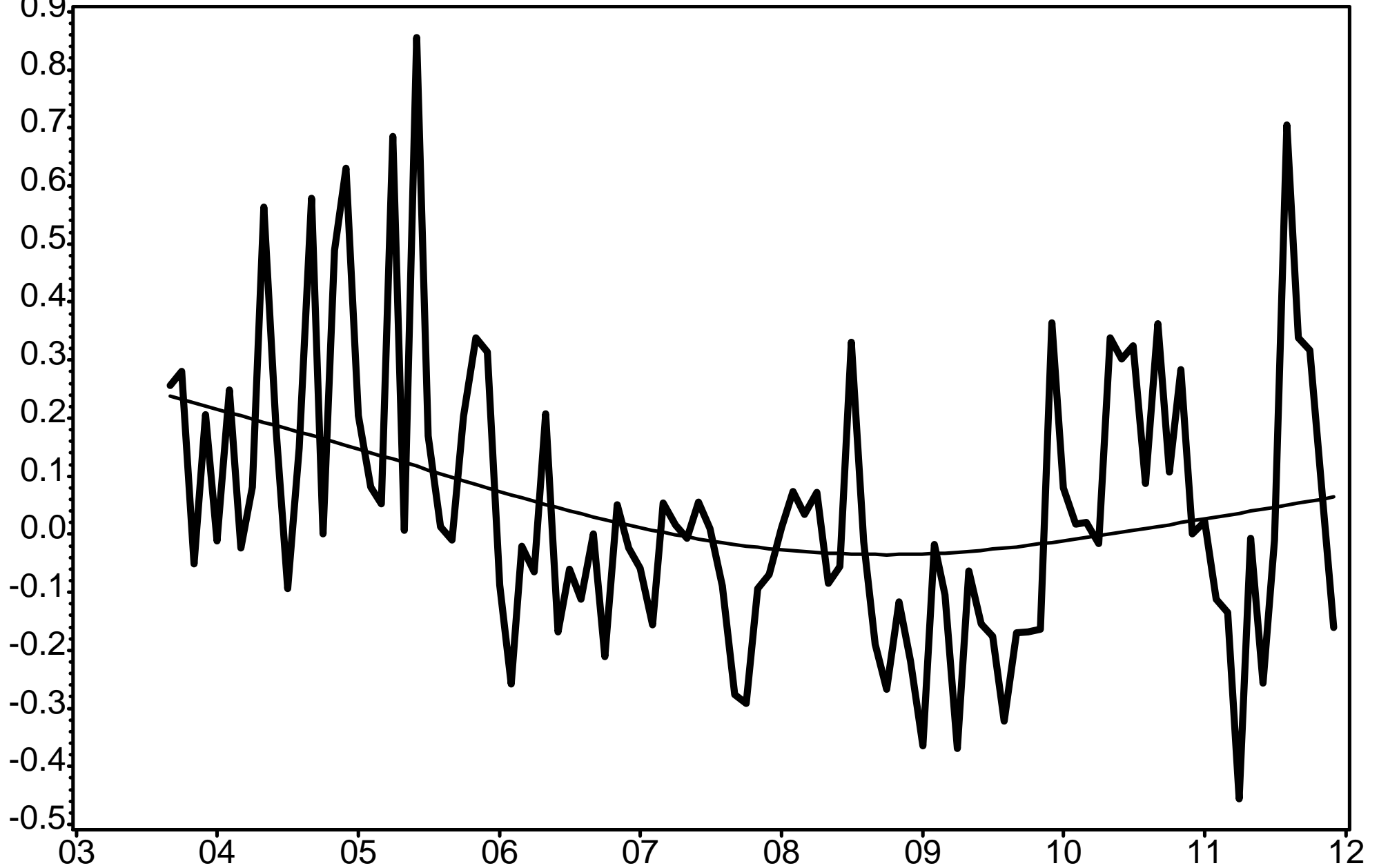
TN_mgl
(mg/l)



Estero Bay Trends Appendix - Display 862

Monthly Data Time Series
for Surface Total Nitrogen in Estero Bay
Adjusted for Seasonal Medians

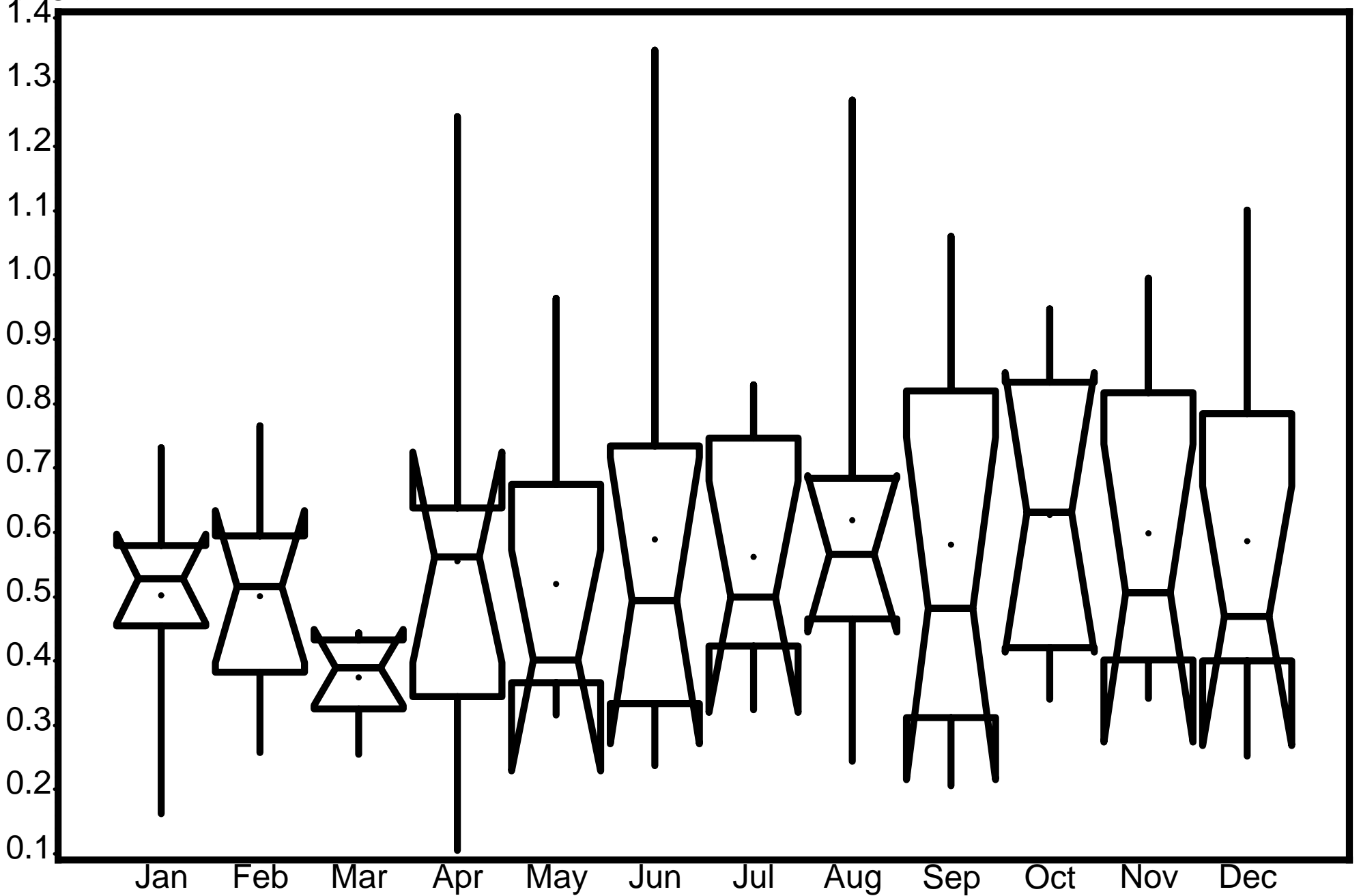
Adjusted
TN_mgl
(mg/l)



Estero Bay Trends Appendix - Display 863

Seasonal Univariate Statistics
for Surface Total Nitrogen in Estero Bay

TN_mgl
(mg/l)



Estero Bay Trends Appendix - Display 864

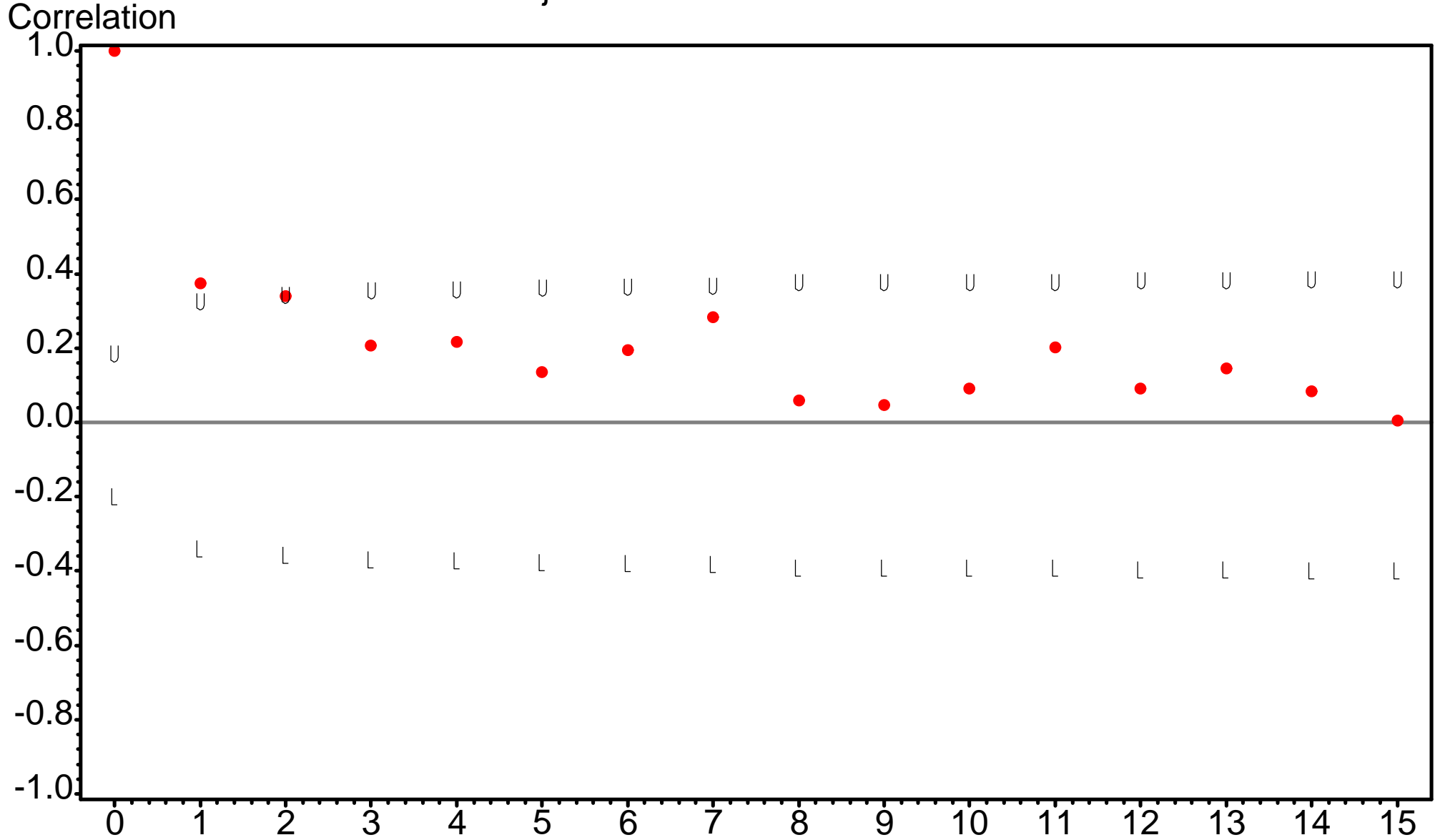
Autocorrelation Statistics for Surface Total Nitrogen in Estero Bay

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.374	0.167	0.333	-0.333
2	0.339	0.174	0.349	-0.349
3	0.207	0.180	0.361	-0.361
4	0.216	0.182	0.365	-0.365
5	0.135	0.185	0.370	-0.370
6	0.194	0.186	0.371	-0.371
7	0.284	0.188	0.375	-0.375
8	0.060	0.192	0.383	-0.383
9	0.047	0.192	0.383	-0.383
10	0.092	0.192	0.384	-0.384
11	0.202	0.192	0.384	-0.384
12	0.091	0.194	0.388	-0.388
13	0.146	0.195	0.389	-0.389
14	0.084	0.196	0.391	-0.391
15	0.005	0.196	0.392	-0.392

Estero Bay Trends Appendix - Display 865

Correlogram for Surface Total Nitrogen in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 866
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.187	.006	.006	-0.027

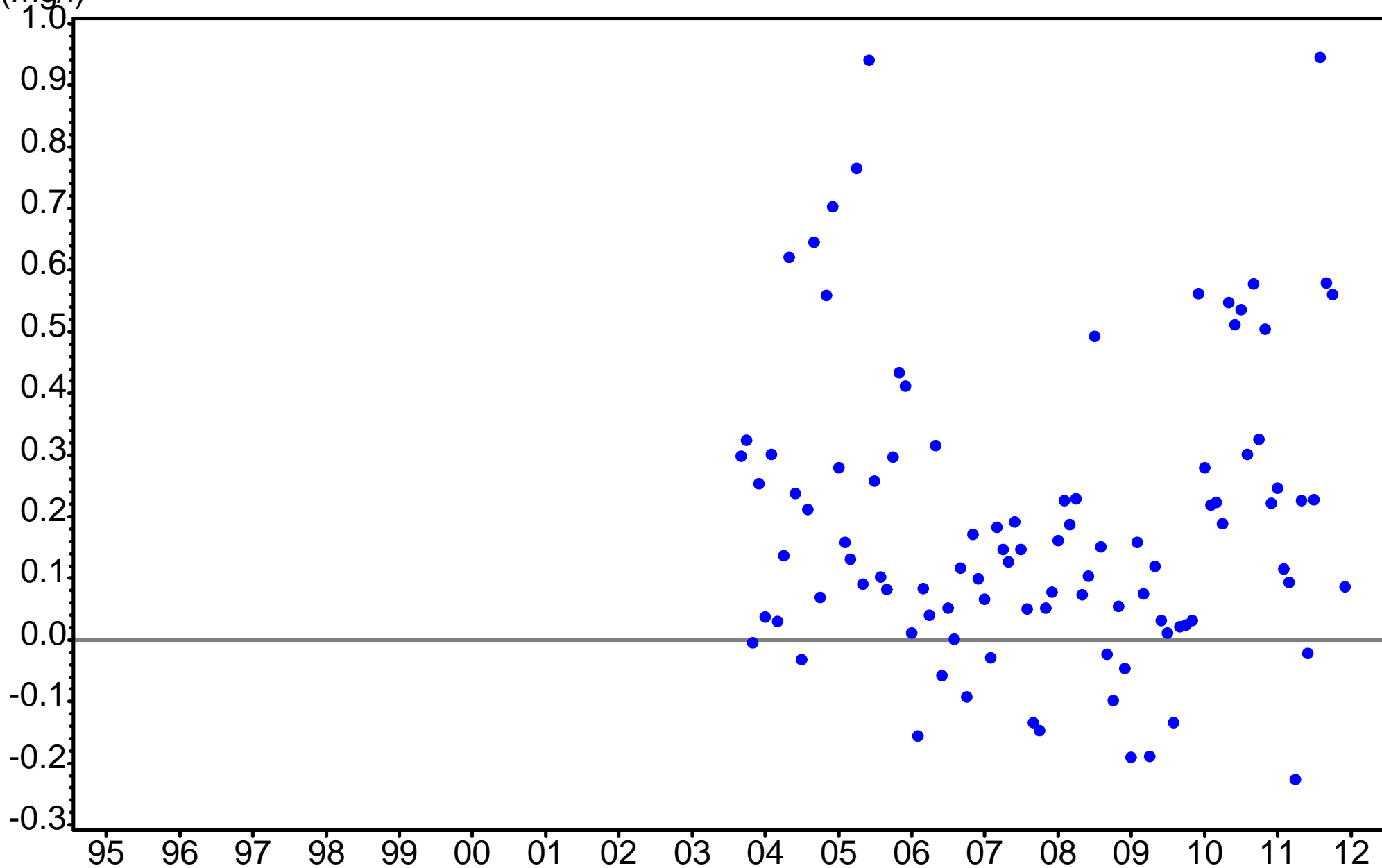
Estero Bay Trends Appendix - Display 867
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19722	0.017180	0.24025	-0.024929

Estero Bay Trends Appendix - Display 868

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(mg/l)



Zero Reference Line Shown

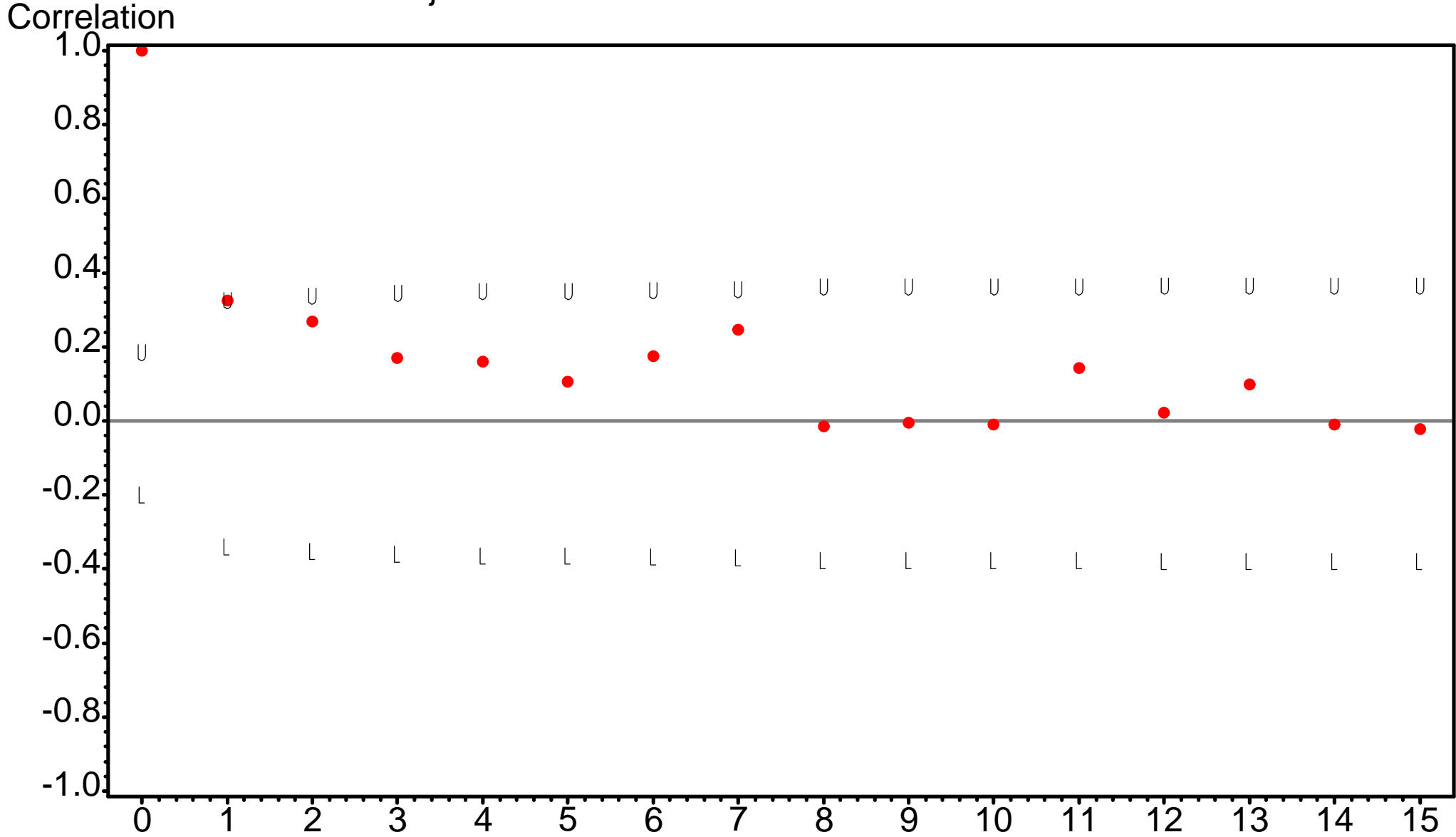
Estero Bay Trends Appendix - Display 869
Autocorrelation Statistics for Surface Total Nitrogen in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.324	0.167	0.333	-0.333
2	0.268	0.172	0.345	-0.345
3	0.171	0.176	0.352	-0.352
4	0.159	0.178	0.356	-0.356
5	0.107	0.179	0.358	-0.358
6	0.175	0.180	0.359	-0.359
7	0.247	0.181	0.363	-0.363
8	-0.015	0.184	0.369	-0.369
9	-0.005	0.184	0.369	-0.369
10	-0.011	0.184	0.369	-0.369
11	0.144	0.184	0.369	-0.369
12	0.023	0.185	0.371	-0.371
13	0.099	0.185	0.371	-0.371
14	-0.011	0.186	0.372	-0.372
15	-0.023	0.186	0.372	-0.372

Estero Bay Trends Appendix - Display 870

Correlogram for Surface Total Nitrogen in Estero Bay

Adjusted for Seasonal Median and Detrended



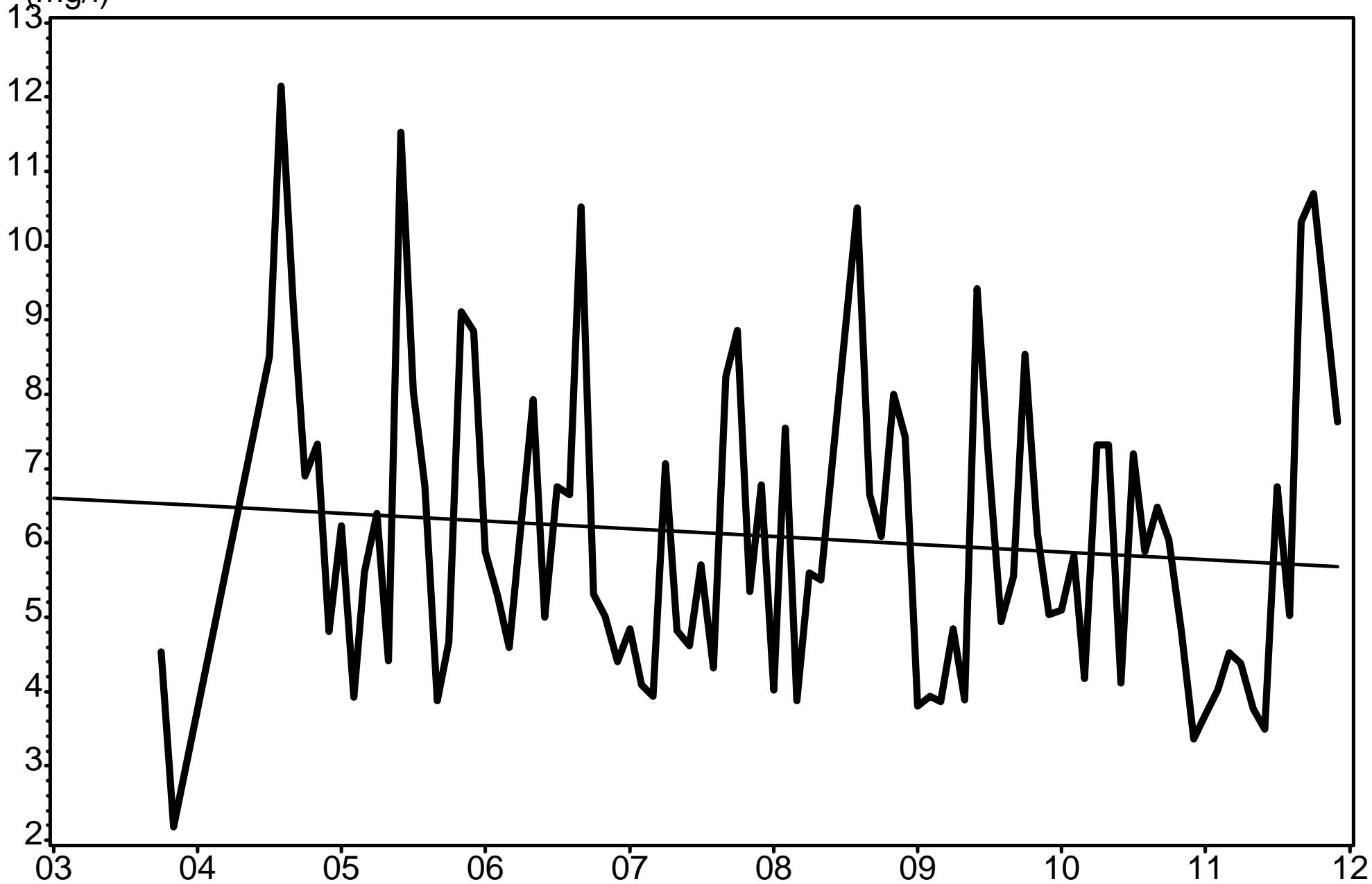
Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 871

Monthly Data Time Series
for Surface Total Organic Carbon in Estero Bay
Not Adjusted for Seasonal Medians

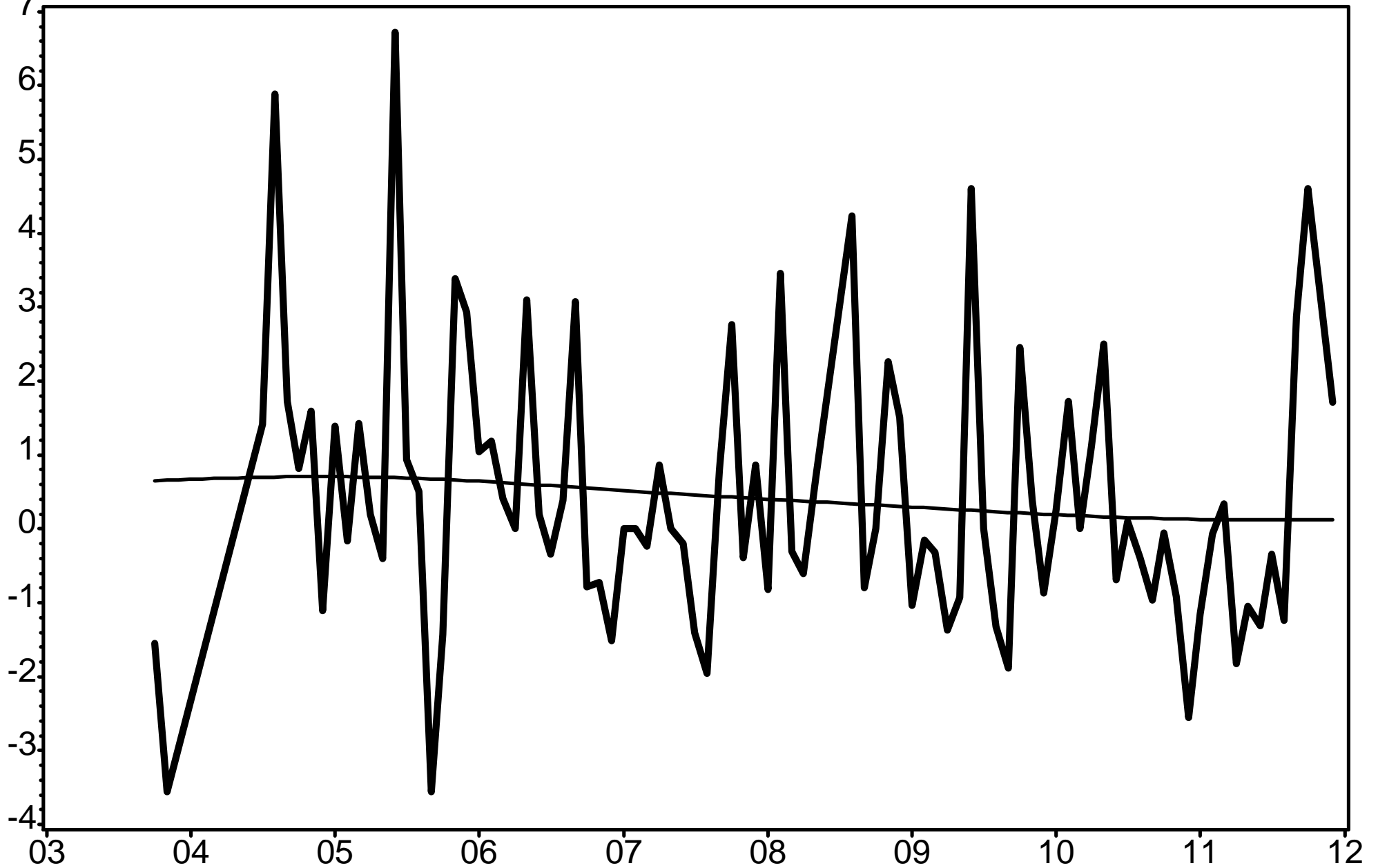
TOC_mgl
(mg/l)



Estero Bay Trends Appendix - Display 872

Monthly Data Time Series
for Surface Total Organic Carbon in Estero Bay
Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

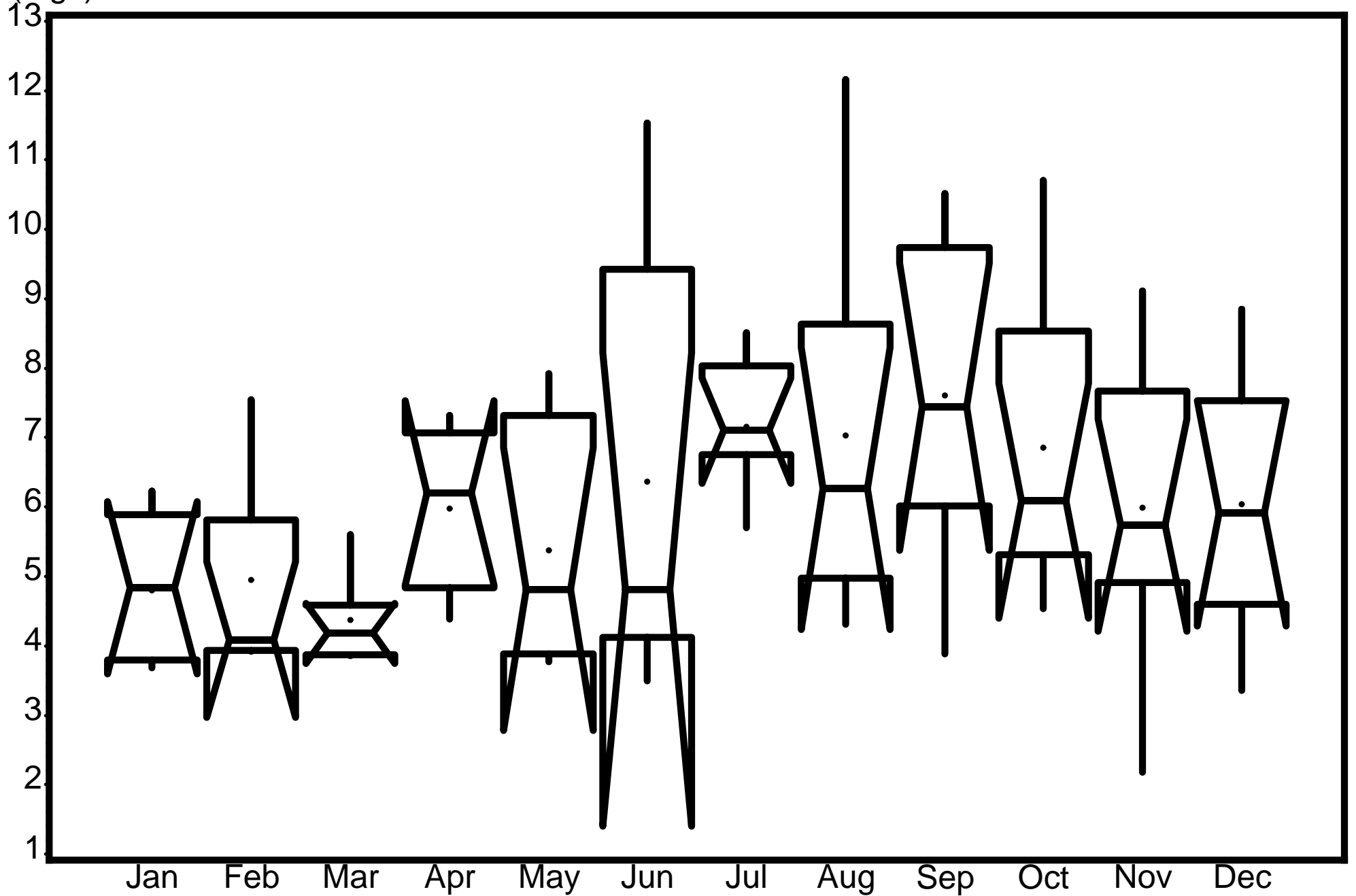


Estero Bay Trends Appendix - Display 873

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Estero Bay

TOC_mgl
(mg/l)



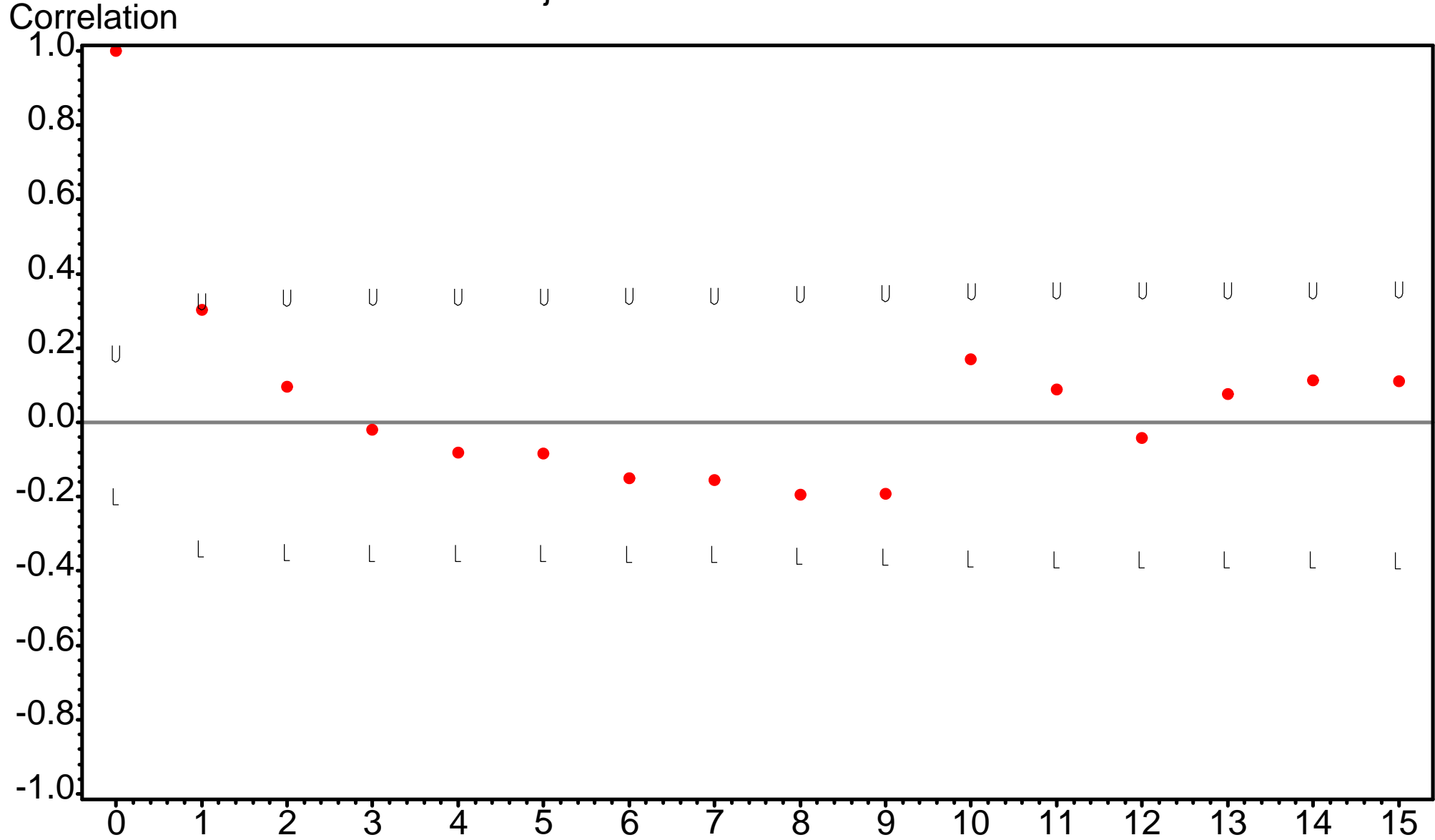
Estero Bay Trends Appendix - Display 874
Autocorrelation Statistics for Surface Total Organic Carbon in Estero Bay

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.302	0.167	0.333	-0.333
2	0.096	0.172	0.343	-0.343
3	-0.019	0.172	0.344	-0.344
4	-0.081	0.172	0.344	-0.344
5	-0.083	0.173	0.345	-0.345
6	-0.151	0.173	0.346	-0.346
7	-0.155	0.174	0.348	-0.348
8	-0.194	0.175	0.351	-0.351
9	-0.191	0.177	0.355	-0.355
10	0.169	0.179	0.359	-0.359
11	0.089	0.181	0.361	-0.361
12	-0.043	0.181	0.362	-0.362
13	0.077	0.181	0.362	-0.362
14	0.113	0.182	0.363	-0.363
15	0.111	0.182	0.364	-0.364

Estero Bay Trends Appendix - Display 875

Correlogram for Surface Total Organic Carbon in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 876
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Estero Bay
Unadjusted for Seasonal Medians

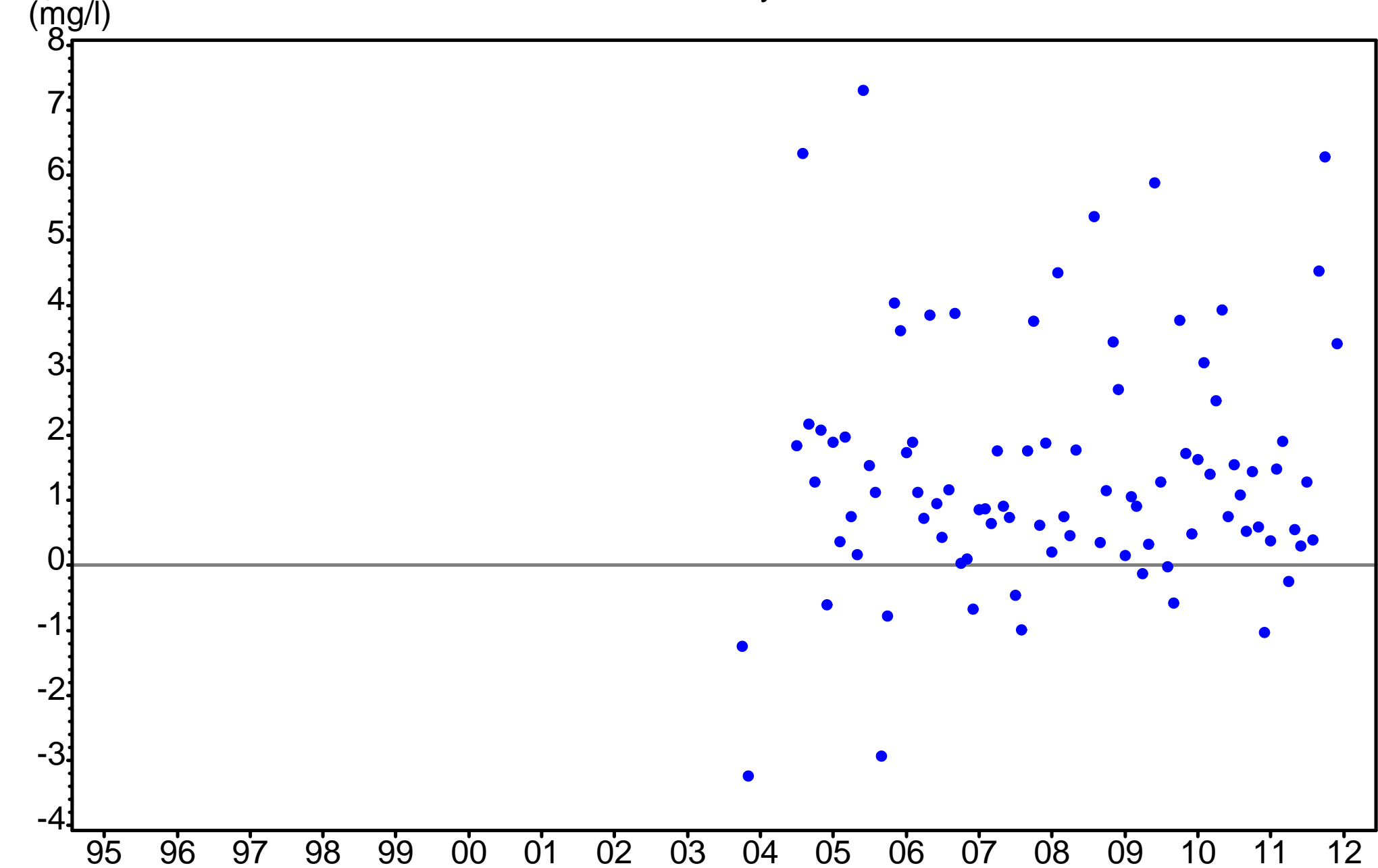
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.1	0.165	0.165	-0.124

Estero Bay Trends Appendix - Display 877
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.15917	0.076796	0.10427	-0.171

Estero Bay Trends Appendix - Display 878

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted Estero Bay



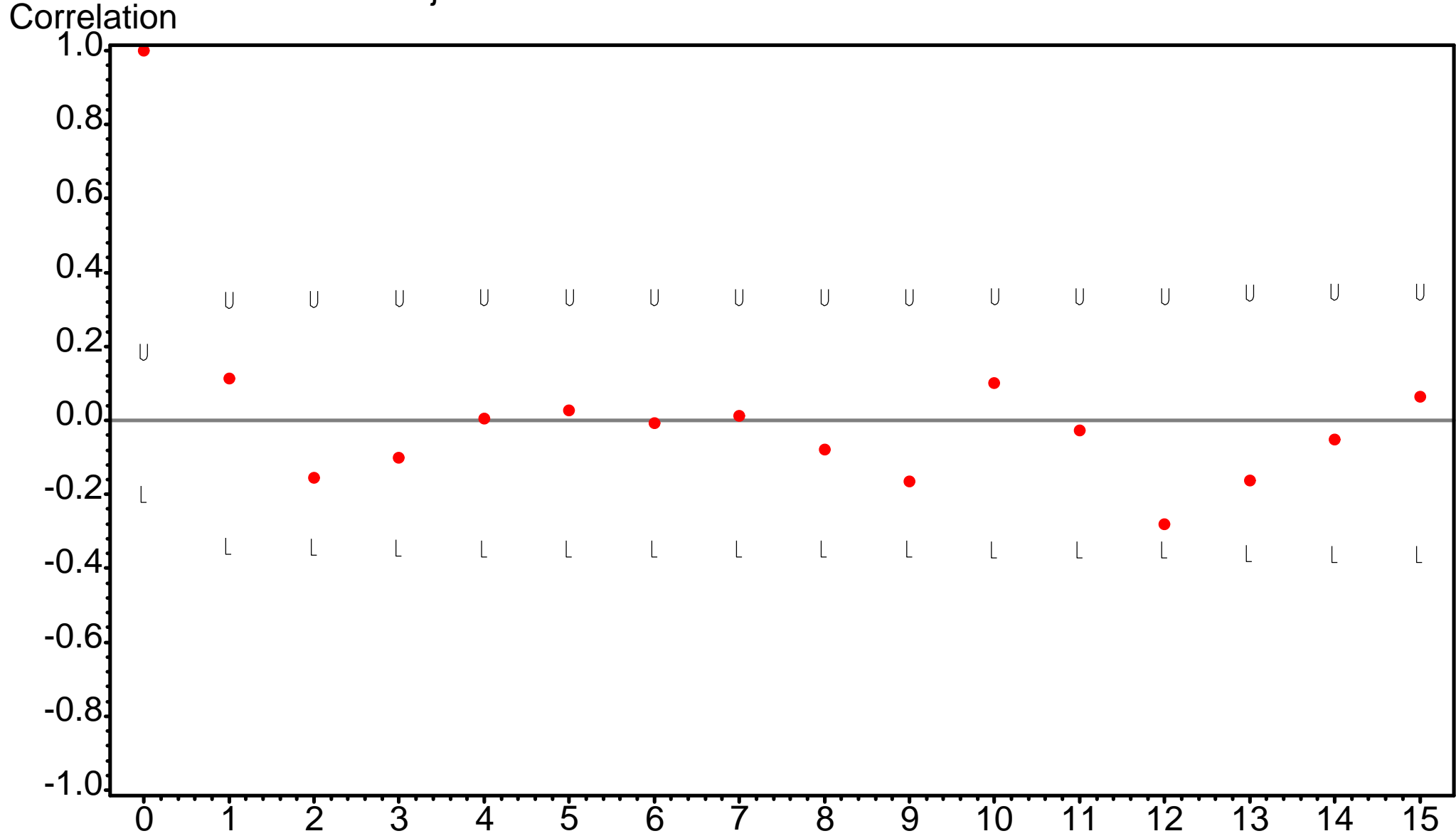
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 879
Autocorrelation Statistics for Surface Total Organic Carbon in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.113	0.167	0.333	-0.333
2	-0.156	0.167	0.335	-0.335
3	-0.101	0.169	0.337	-0.337
4	0.005	0.169	0.339	-0.339
5	0.026	0.169	0.339	-0.339
6	-0.008	0.169	0.339	-0.339
7	0.012	0.169	0.339	-0.339
8	-0.078	0.169	0.339	-0.339
9	-0.165	0.170	0.339	-0.339
10	0.100	0.171	0.342	-0.342
11	-0.027	0.172	0.343	-0.343
12	-0.281	0.172	0.343	-0.343
13	-0.162	0.176	0.352	-0.352
14	-0.051	0.177	0.355	-0.355
15	0.063	0.177	0.355	-0.355

Estero Bay Trends Appendix - Display 880

Correlogram for Surface Total Organic Carbon in Estero Bay Adjusted for Seasonal Median and Detrended



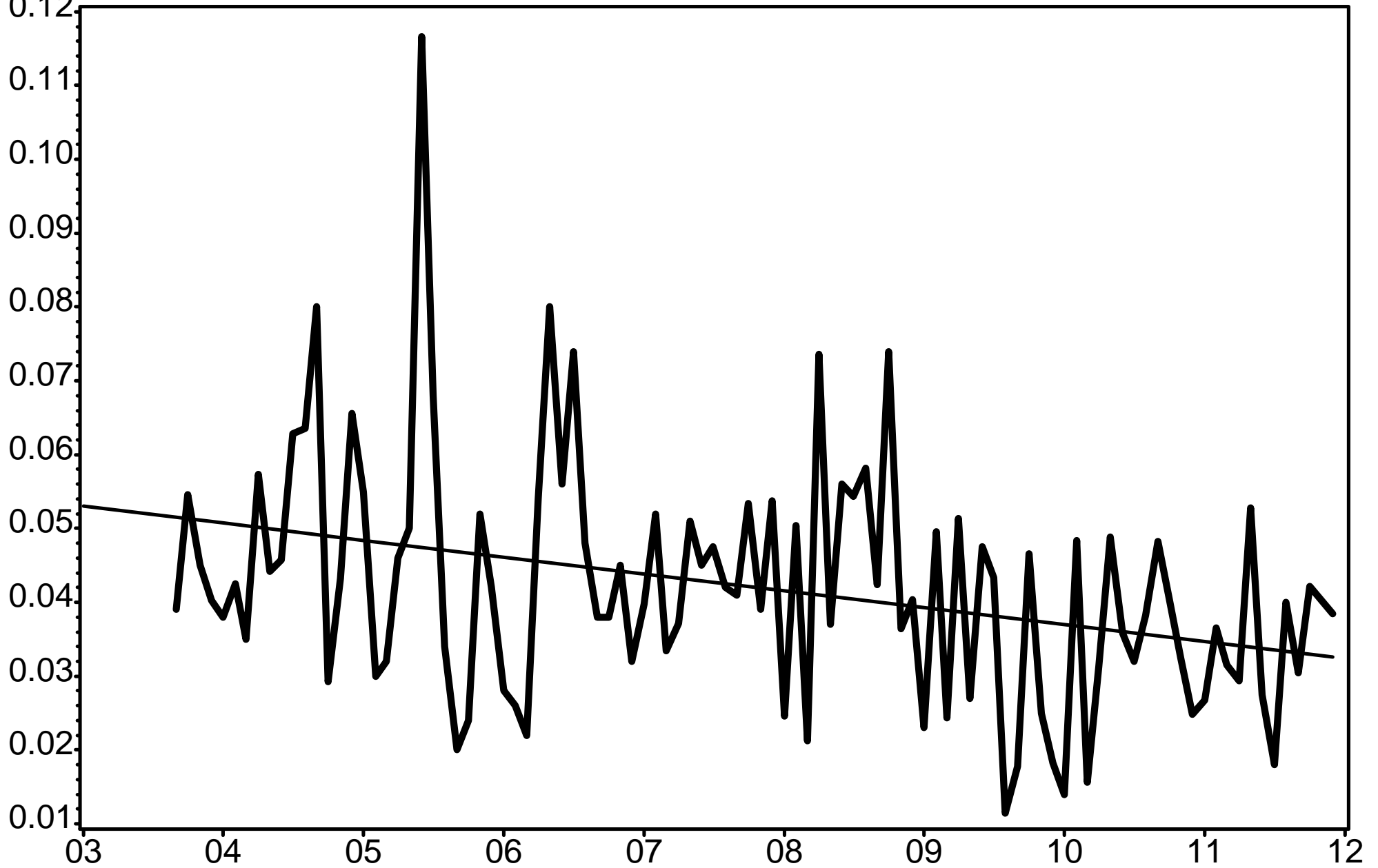
Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 881

Monthly Data Time Series
for Surface Total Phosphorous in Estero Bay
Not Adjusted for Seasonal Medians

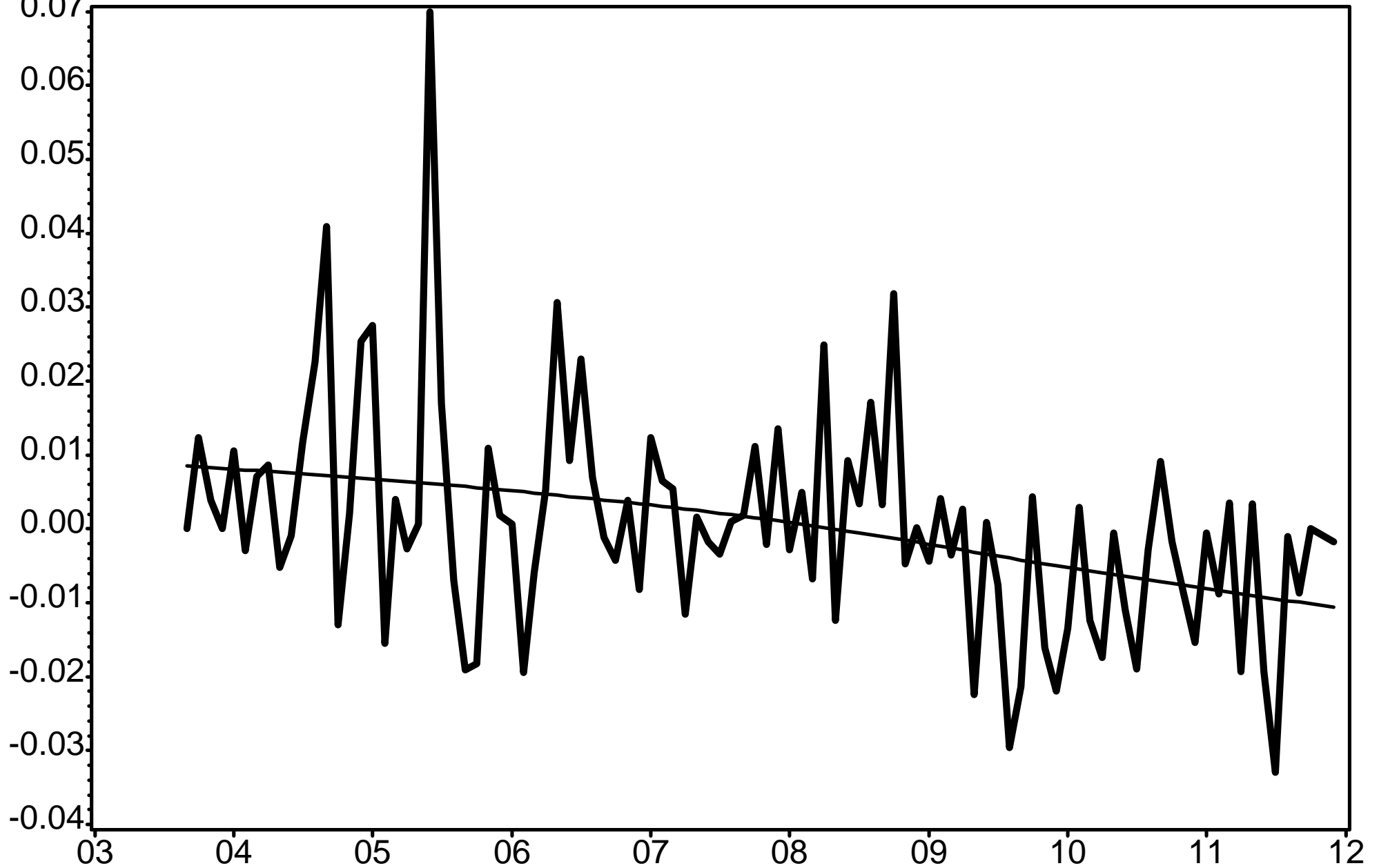
TPO4_mgl
(mg/l)



Estero Bay Trends Appendix - Display 882

Monthly Data Time Series
for Surface Total Phosphorous in Estero Bay
Adjusted for Seasonal Medians

Adjusted
TPO4_mgl
(mg/l)

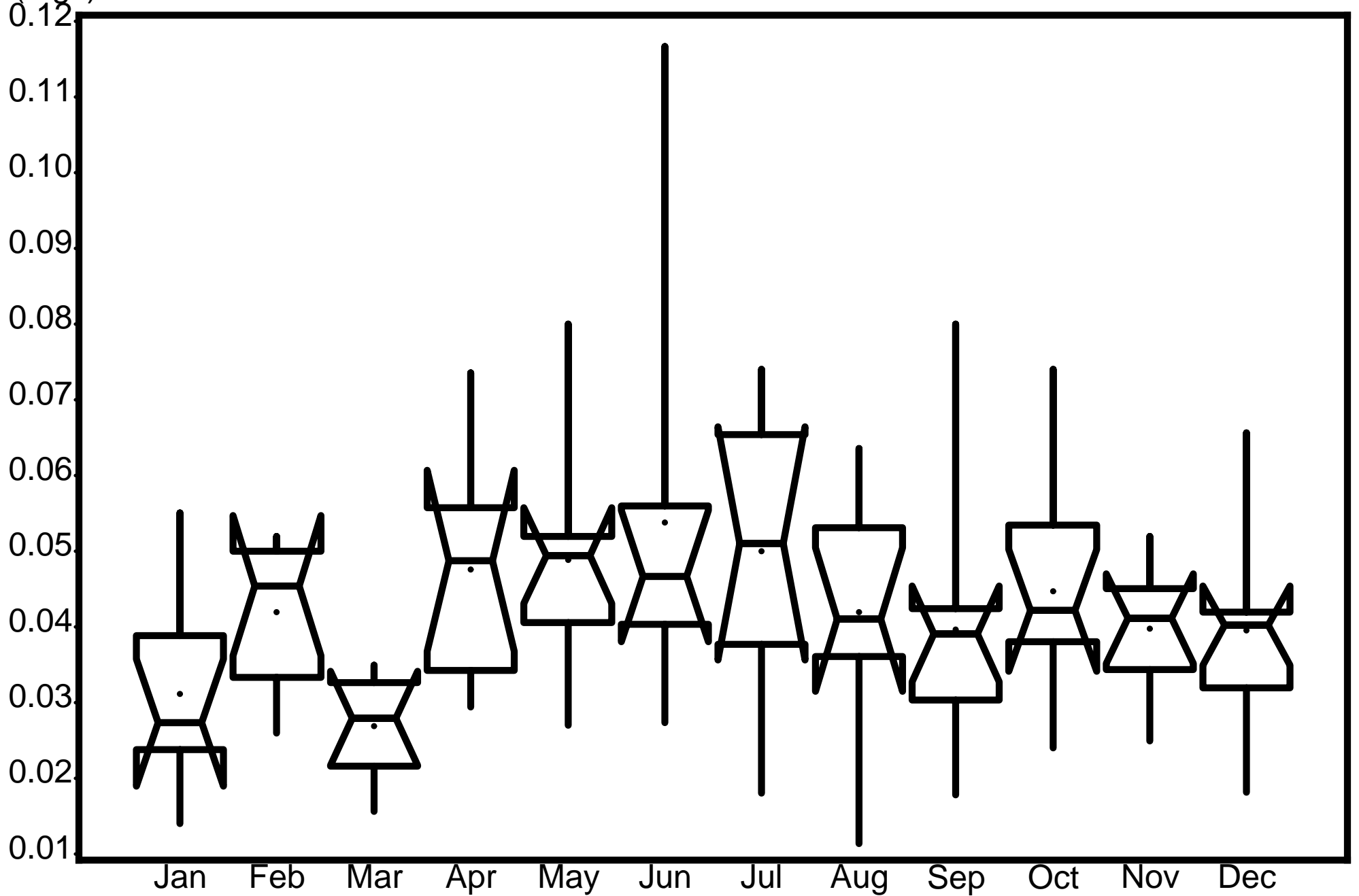


Estero Bay Trends Appendix - Display 883

Seasonal Univariate Statistics

for Surface Total Phosphorous in Estero Bay

TPO4_mgl
(mg/l)



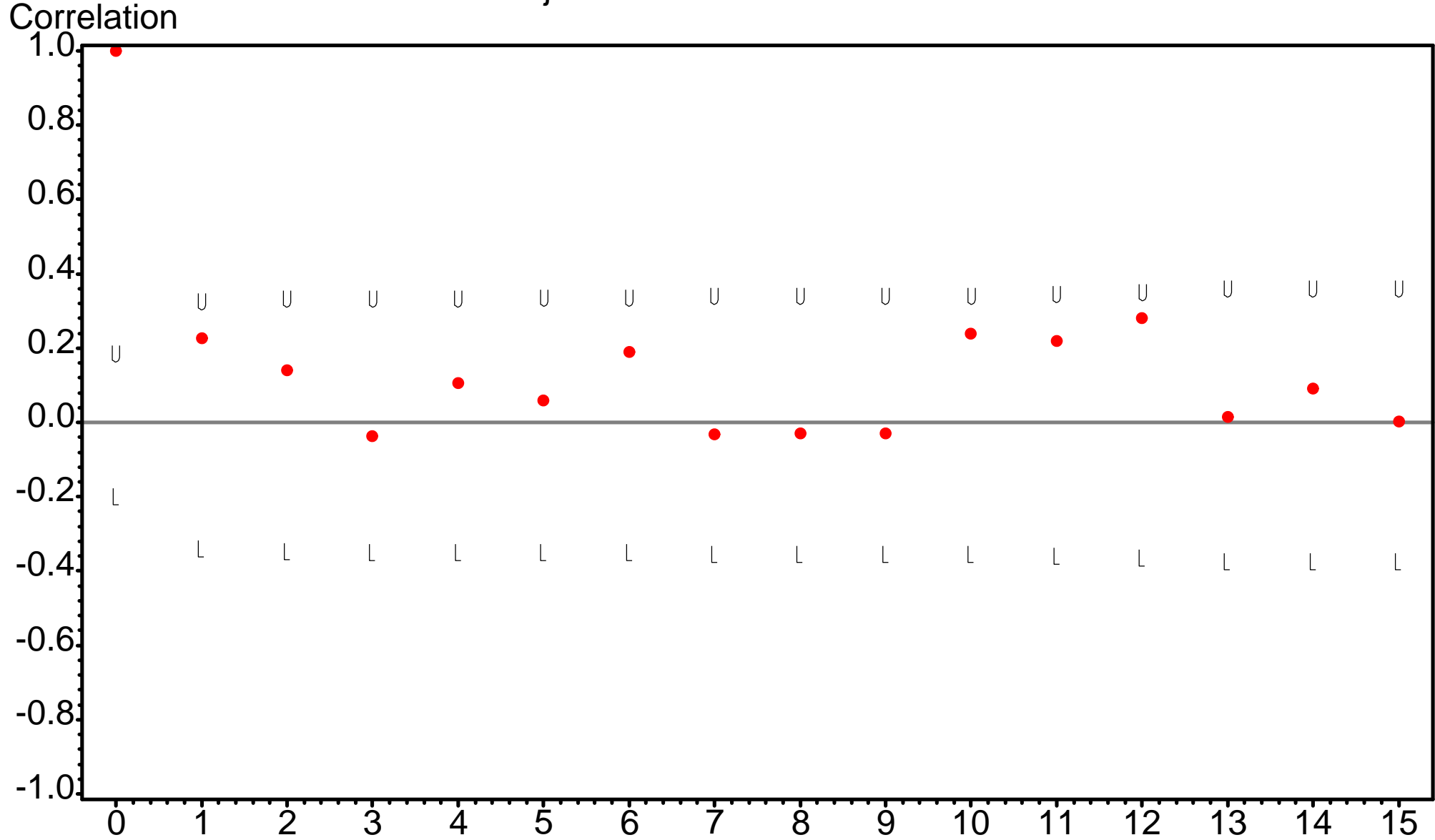
Estero Bay Trends Appendix - Display 884
Autocorrelation Statistics for Surface Total Phosphorous in Estero Bay

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.227	0.167	0.333	-0.333
2	0.140	0.170	0.339	-0.339
3	-0.036	0.171	0.341	-0.341
4	0.106	0.171	0.341	-0.341
5	0.058	0.171	0.343	-0.343
6	0.190	0.171	0.343	-0.343
7	-0.032	0.173	0.347	-0.347
8	-0.029	0.173	0.347	-0.347
9	-0.029	0.173	0.347	-0.347
10	0.240	0.174	0.347	-0.347
11	0.220	0.177	0.353	-0.353
12	0.280	0.179	0.358	-0.358
13	0.014	0.183	0.366	-0.366
14	0.090	0.183	0.366	-0.366
15	0.002	0.184	0.367	-0.367

Estero Bay Trends Appendix - Display 885

Correlogram for Surface Total Phosphorous in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 886
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.217	.001	.001	-.002

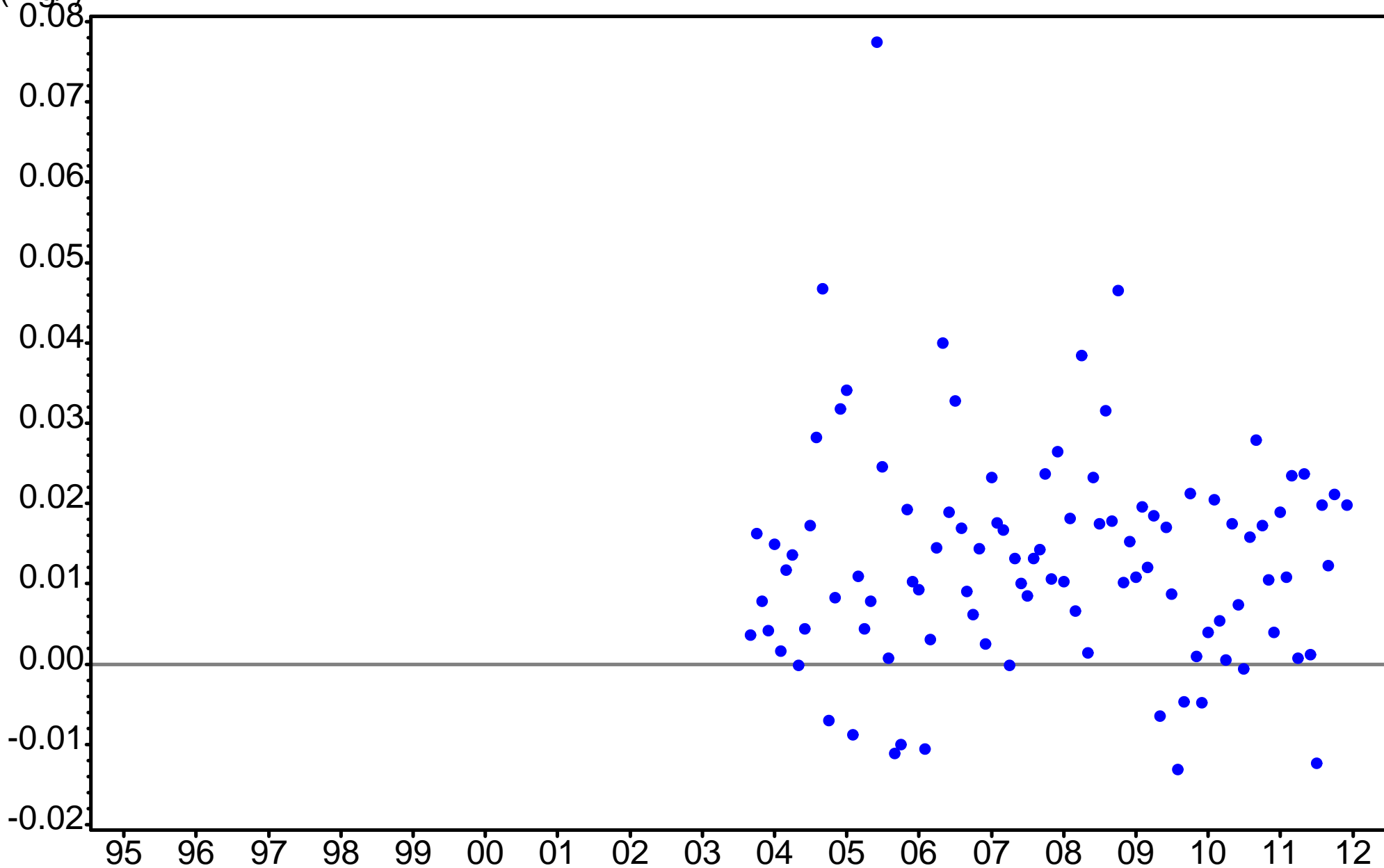
Estero Bay Trends Appendix - Display 887
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.32222	.000088261	0.014672	-.00217143

Estero Bay Trends Appendix - Display 888

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Estero Bay

Adjusted
(mg/l)



Zero Reference Line Shown

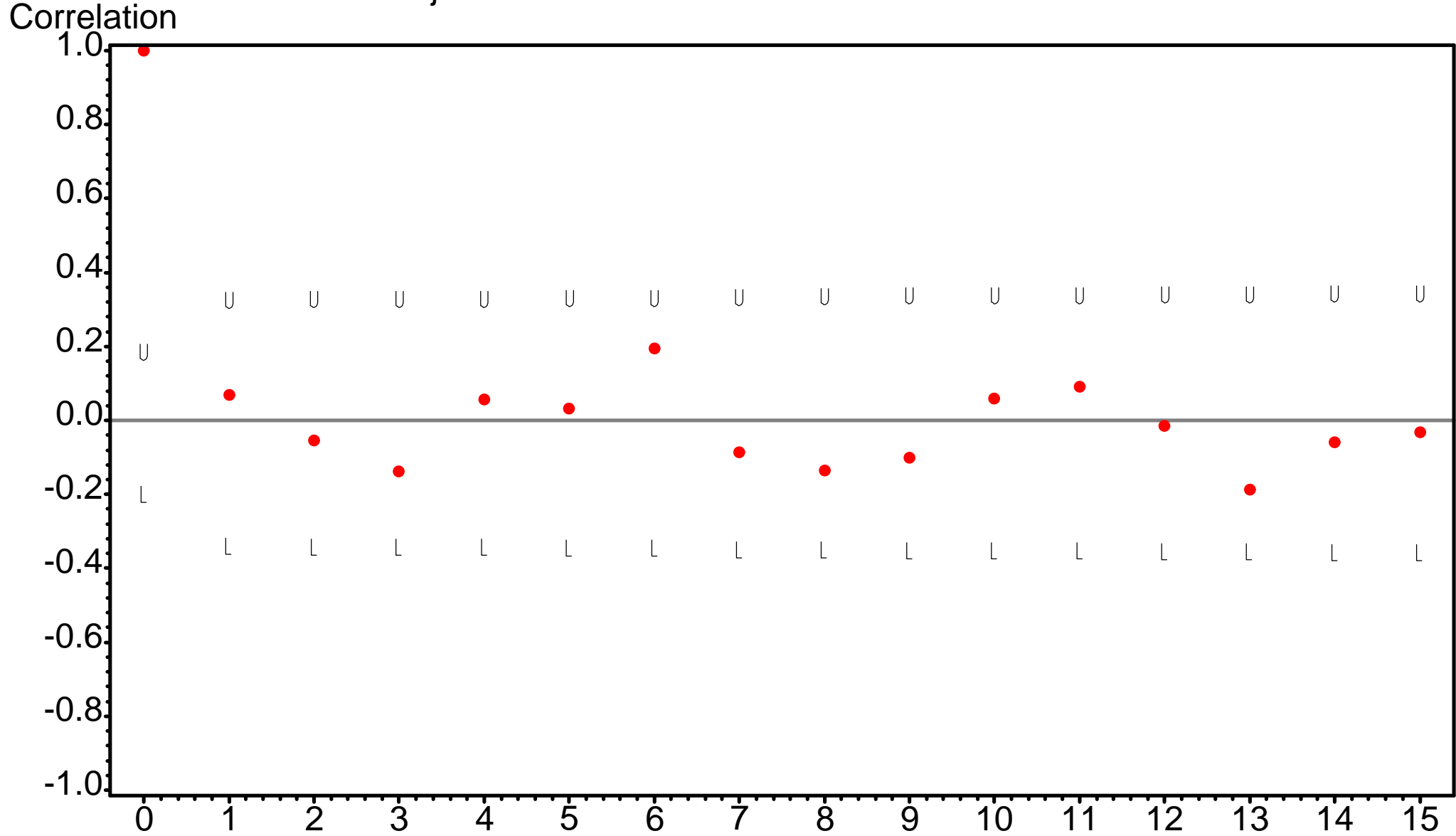
Estero Bay Trends Appendix - Display 889
Autocorrelation Statistics for Surface Total Phosphorous in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.070	0.167	0.333	-0.333
2	-0.054	0.167	0.334	-0.334
3	-0.139	0.167	0.334	-0.334
4	0.057	0.168	0.336	-0.336
5	0.031	0.168	0.337	-0.337
6	0.195	0.168	0.337	-0.337
7	-0.086	0.170	0.341	-0.341
8	-0.135	0.171	0.342	-0.342
9	-0.101	0.172	0.344	-0.344
10	0.059	0.172	0.345	-0.345
11	0.090	0.173	0.345	-0.345
12	-0.014	0.173	0.346	-0.346
13	-0.188	0.173	0.346	-0.346
14	-0.059	0.175	0.350	-0.350
15	-0.032	0.175	0.350	-0.350

Estero Bay Trends Appendix - Display 890

Correlogram for Surface Total Phosphorous in Estero Bay

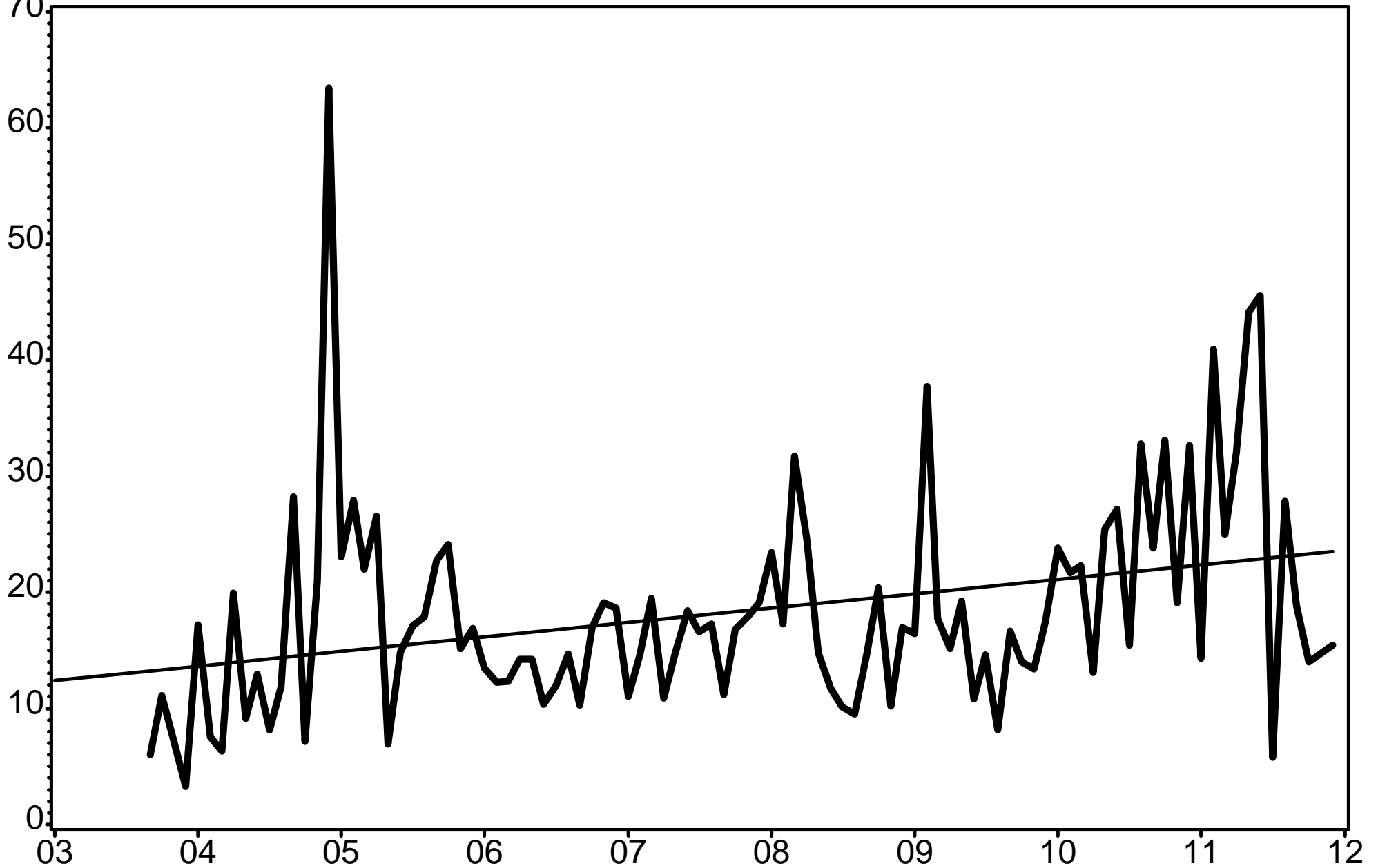
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 891
Monthly Data Time Series
for Surface Total Suspended Solids in Estero Bay
Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



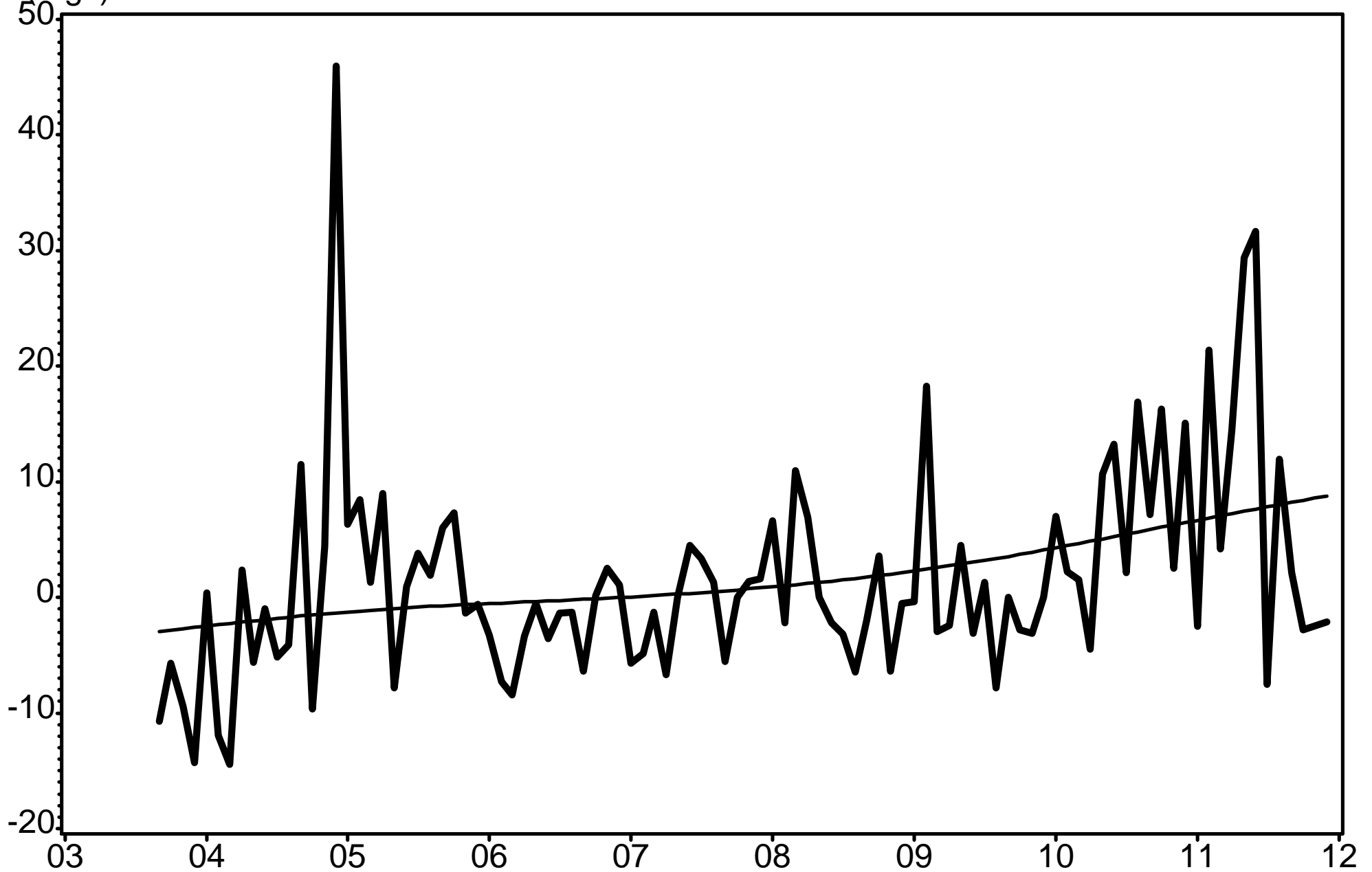
Estero Bay Trends Appendix - Display 892

Monthly Data Time Series

for Surface Total Suspended Solids in Estero Bay

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

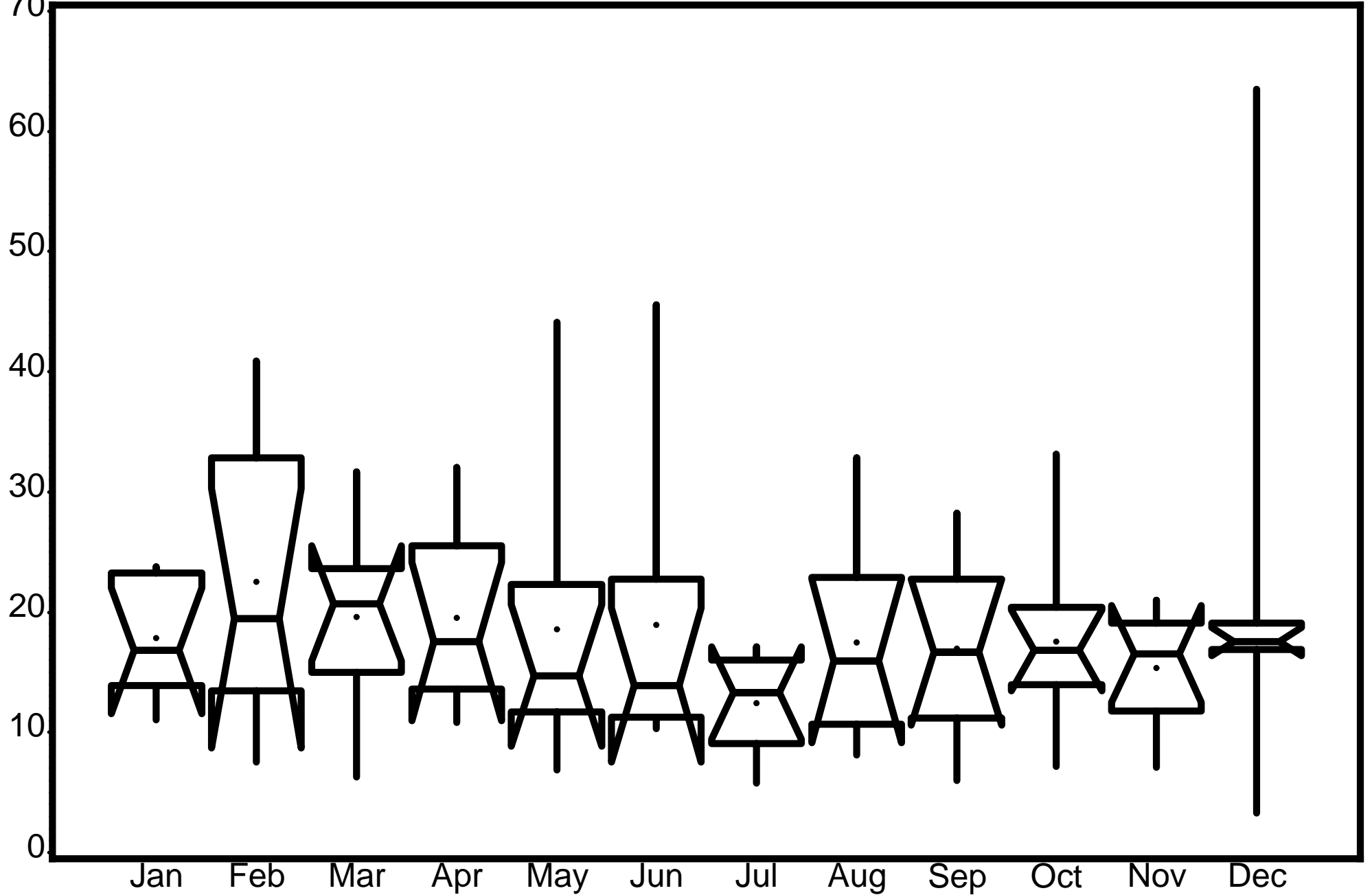


Estero Bay Trends Appendix - Display 893

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Estero Bay

TSS_mgl
(mg/l)
70



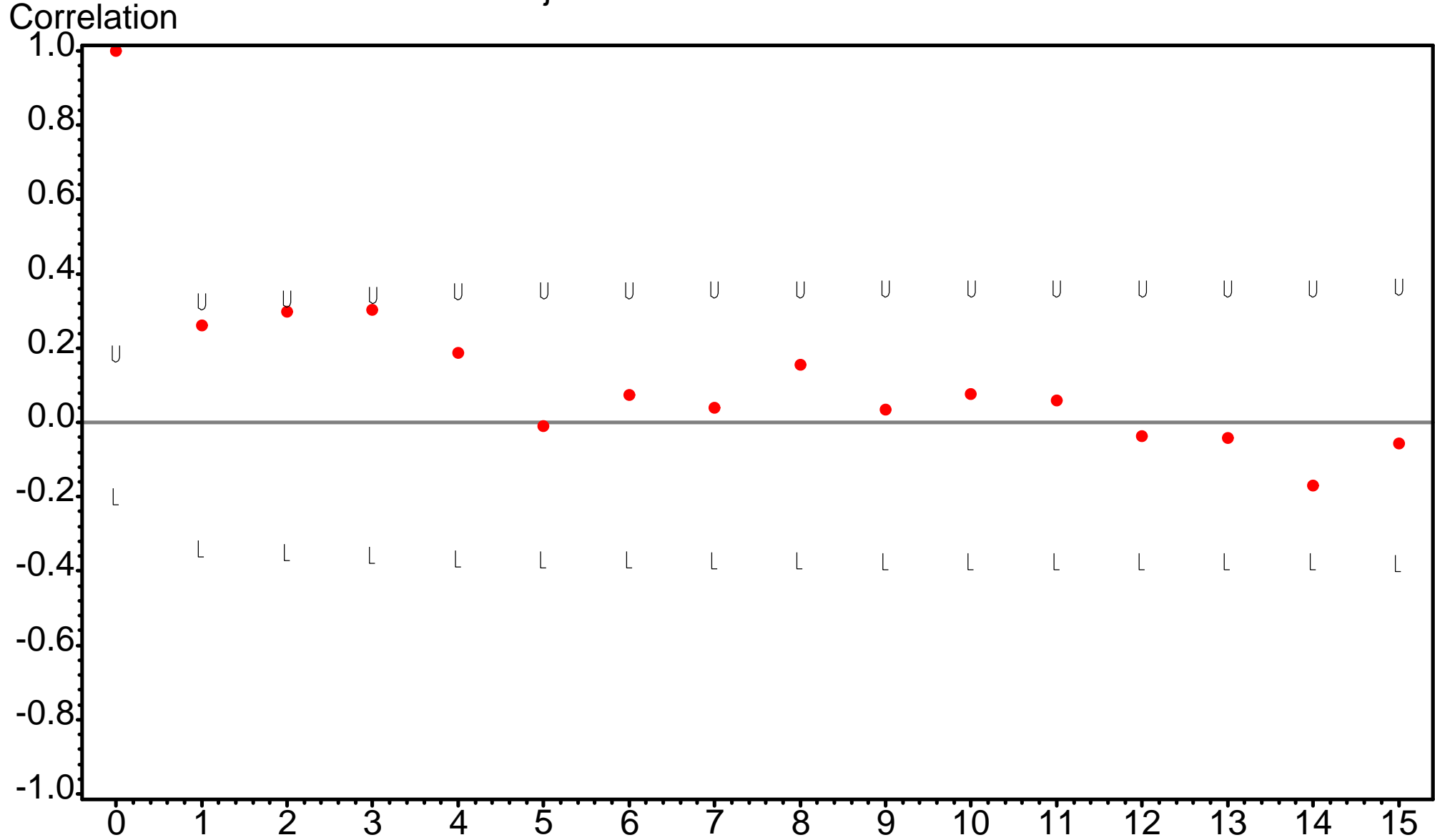
Estero Bay Trends Appendix - Display 894
Autocorrelation Statistics for Surface Total Suspended Solids in Estero Bay

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.262	0.167	0.333	-0.333
2	0.299	0.170	0.341	-0.341
3	0.302	0.175	0.350	-0.350
4	0.186	0.180	0.360	-0.360
5	-0.009	0.182	0.363	-0.363
6	0.074	0.182	0.363	-0.363
7	0.040	0.182	0.364	-0.364
8	0.154	0.182	0.364	-0.364
9	0.035	0.183	0.367	-0.367
10	0.077	0.183	0.367	-0.367
11	0.058	0.184	0.367	-0.367
12	-0.036	0.184	0.368	-0.368
13	-0.043	0.184	0.368	-0.368
14	-0.169	0.184	0.368	-0.368
15	-0.057	0.185	0.371	-0.371

Estero Bay Trends Appendix - Display 895

Correlogram for Surface Total Suspended Solids in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 896
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Estero Bay
Unadjusted for Seasonal Medians

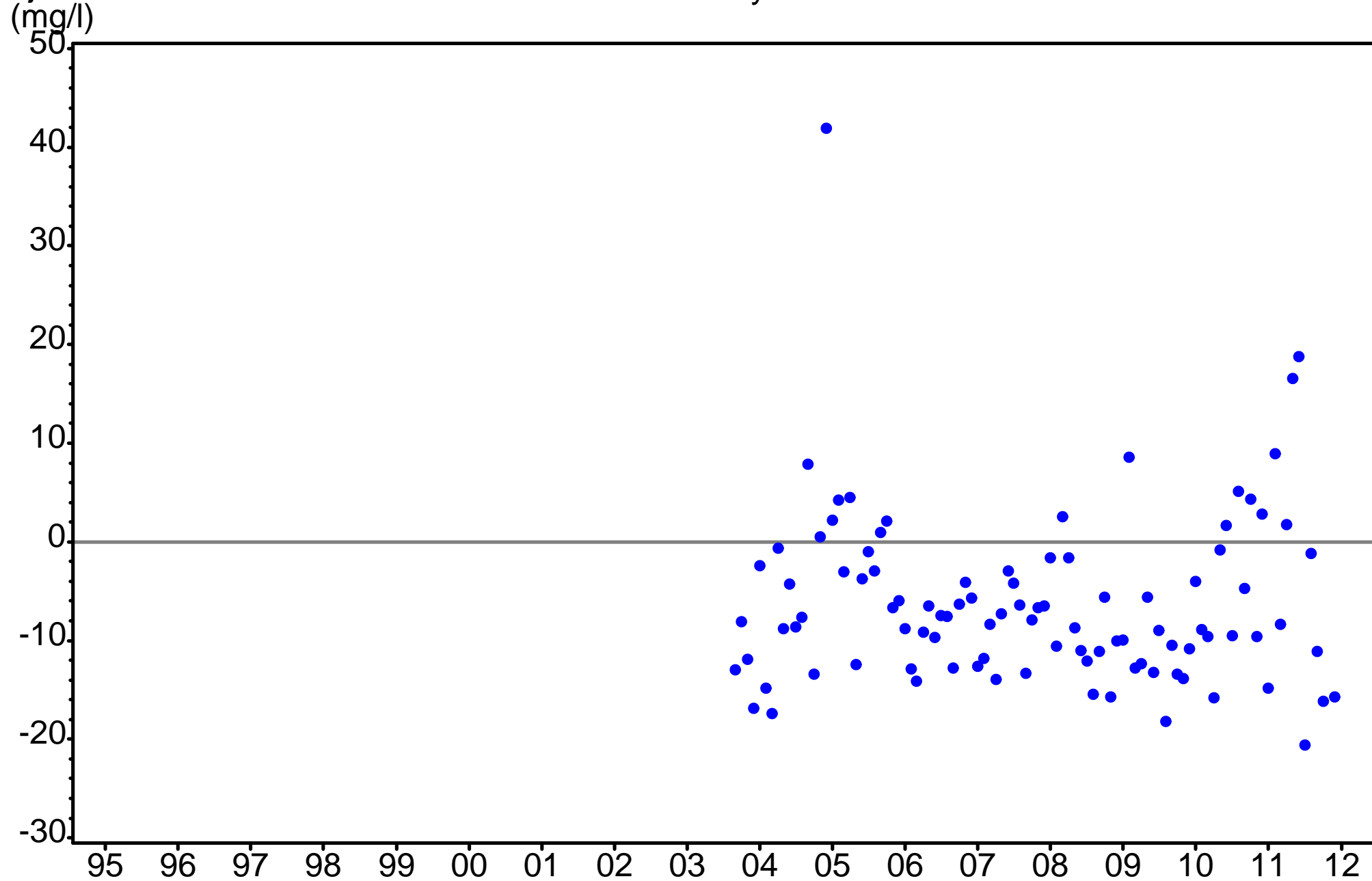
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.25	0	0	1.214

Estero Bay Trends Appendix - Display 897
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.24444	.00307822	0.049709	1.37162

Estero Bay Trends Appendix - Display 898

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Estero Bay



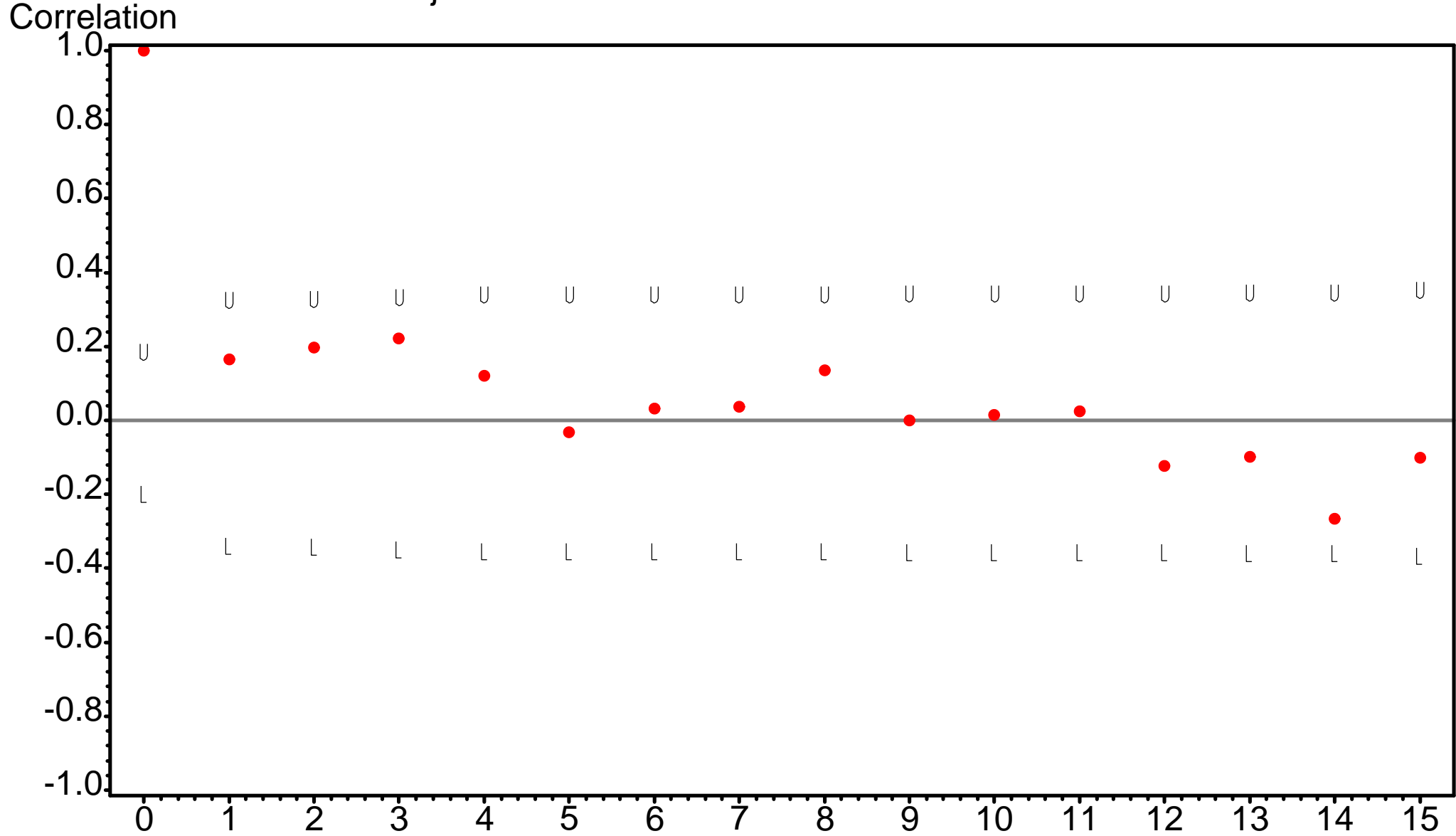
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 899
Autocorrelation Statistics for Surface Total Suspended Solids in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.165	0.167	0.333	-0.333
2	0.197	0.168	0.336	-0.336
3	0.222	0.170	0.341	-0.341
4	0.120	0.173	0.346	-0.346
5	-0.032	0.174	0.347	-0.347
6	0.032	0.174	0.348	-0.348
7	0.038	0.174	0.348	-0.348
8	0.136	0.174	0.348	-0.348
9	-0.001	0.175	0.350	-0.350
10	0.015	0.175	0.350	-0.350
11	0.025	0.175	0.350	-0.350
12	-0.124	0.175	0.350	-0.350
13	-0.099	0.176	0.352	-0.352
14	-0.267	0.176	0.353	-0.353
15	-0.102	0.180	0.360	-0.360

Estero Bay Trends Appendix - Display 900

Correlogram for Surface Total Suspended Solids in Estero Bay Adjusted for Seasonal Median and Detrended

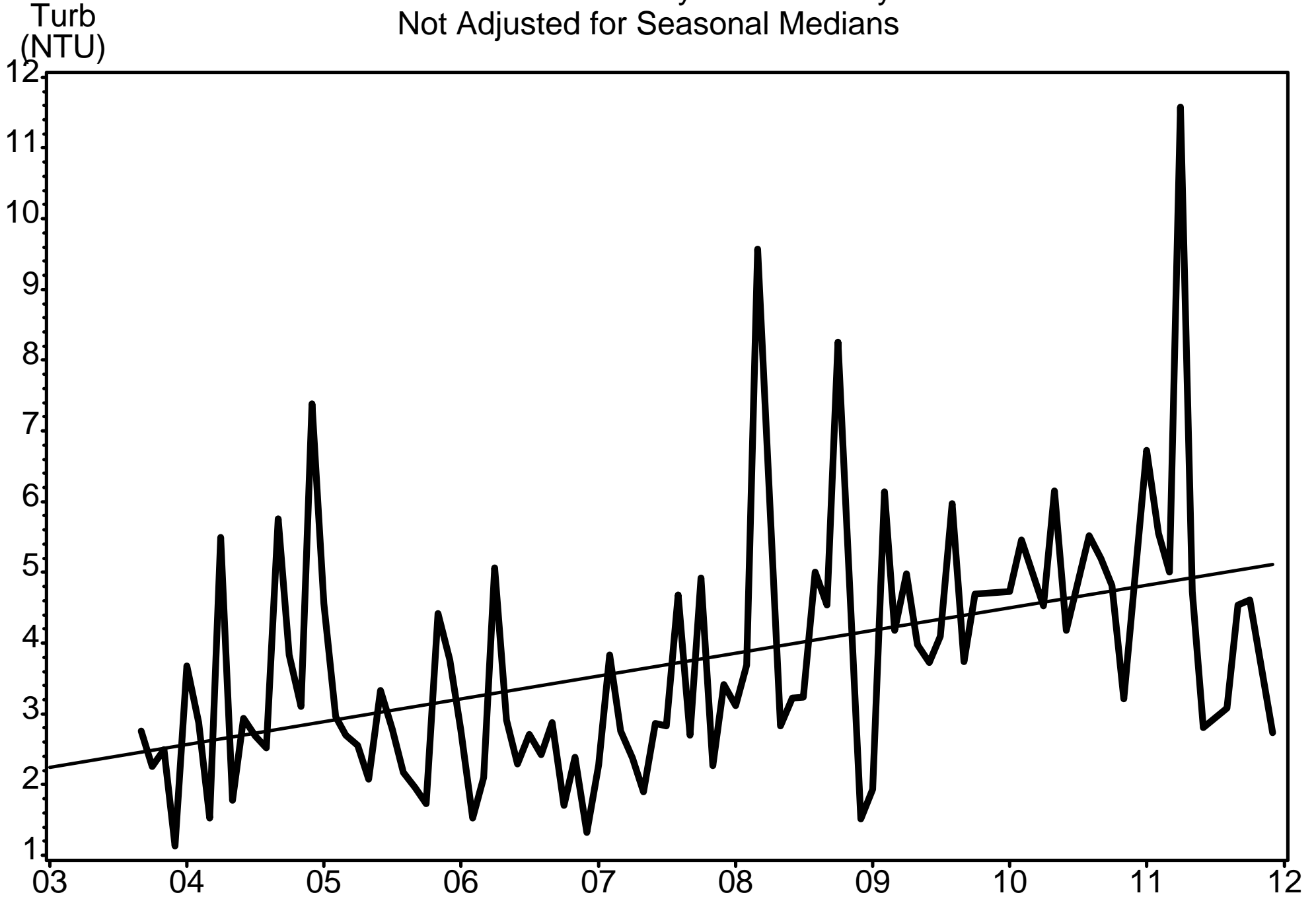


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 901

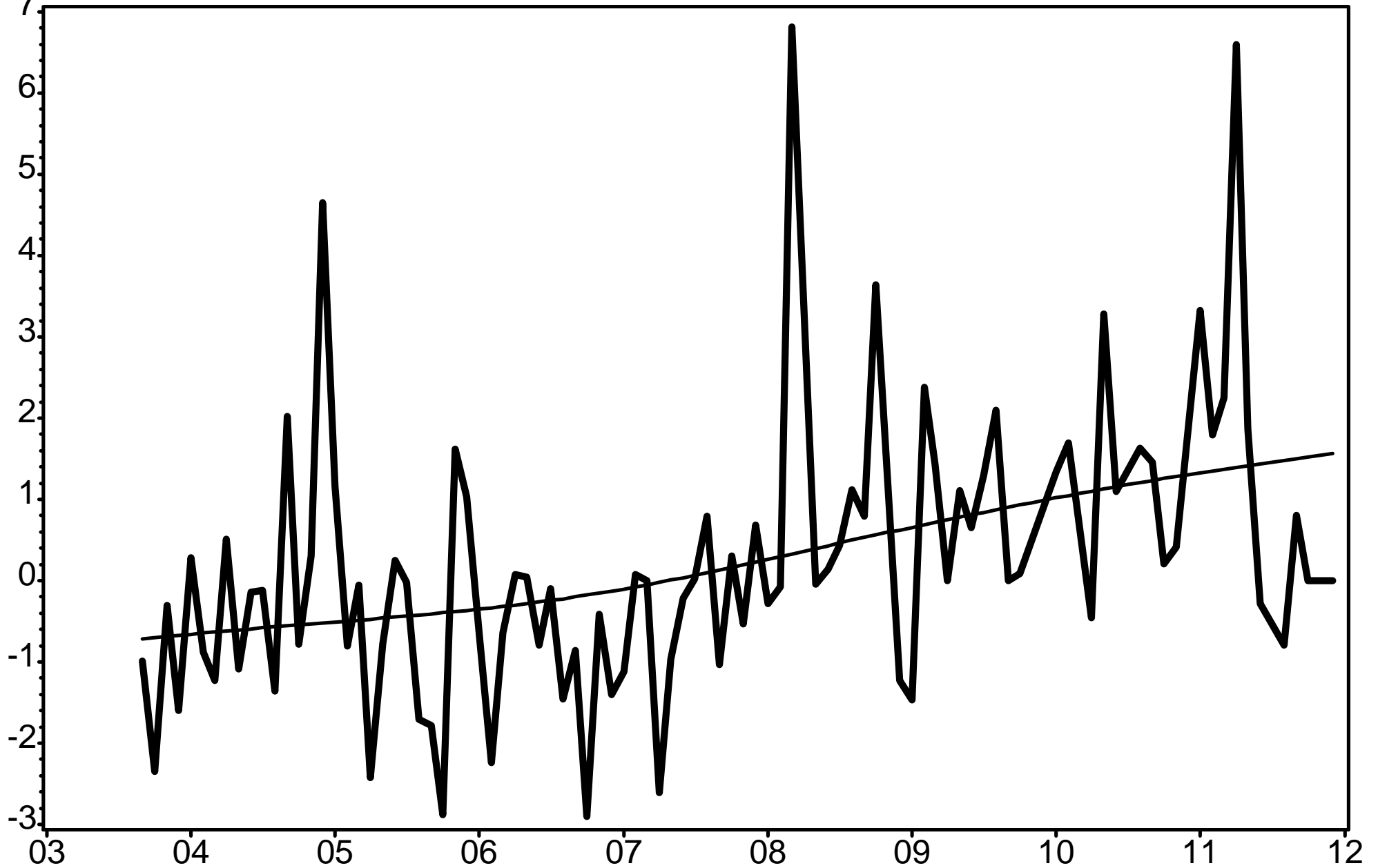
Monthly Data Time Series
for Surface Turbidity in Estero Bay
Not Adjusted for Seasonal Medians



Estero Bay Trends Appendix - Display 902

Monthly Data Time Series
for Surface Turbidity in Estero Bay
Adjusted for Seasonal Medians

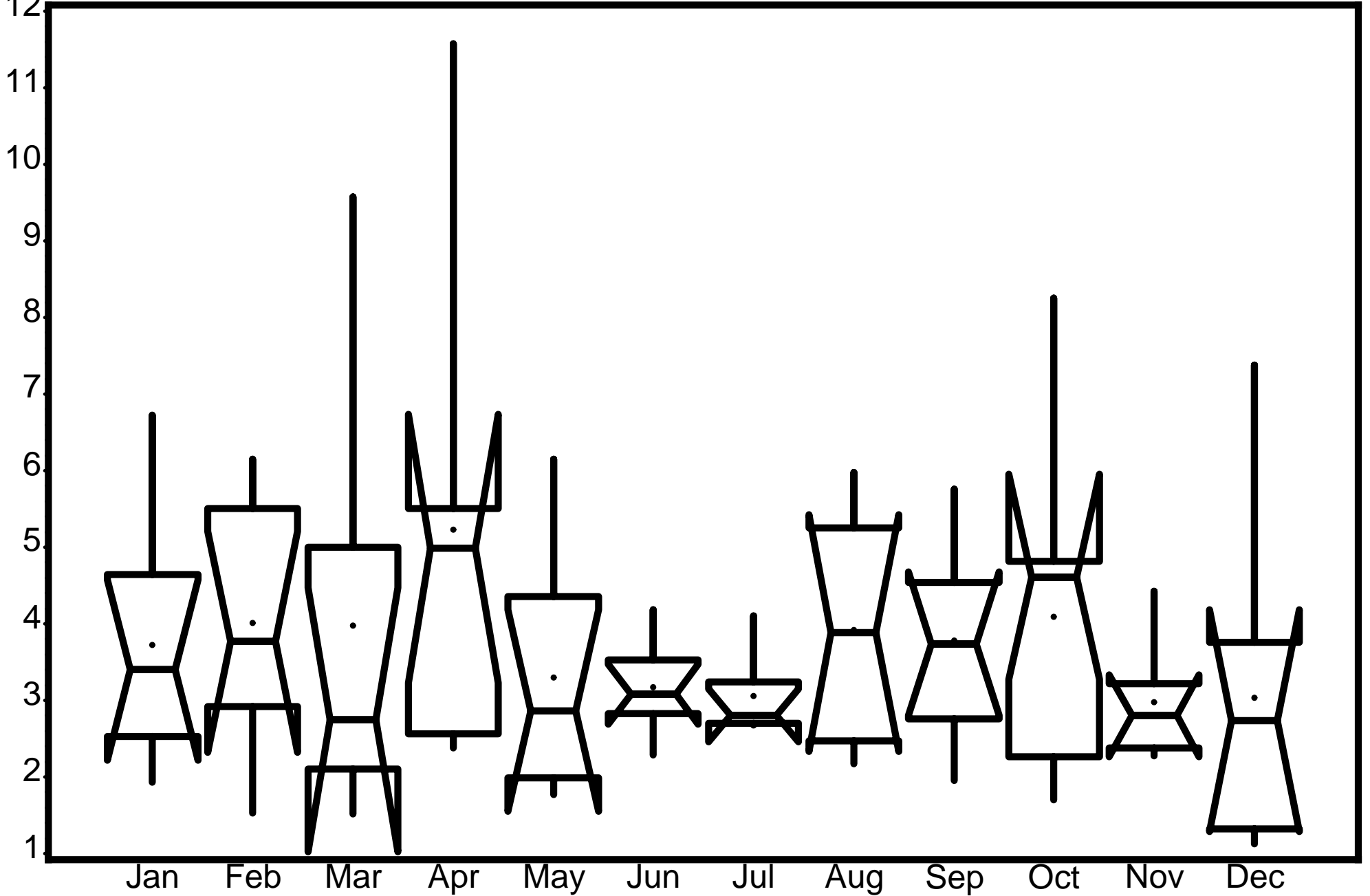
Adjusted
Turb
(NTU)



Estero Bay Trends Appendix - Display 903

Seasonal Univariate Statistics
for Surface Turbidity in Estero Bay

Turb
(NTU)



Estero Bay Trends Appendix - Display 904

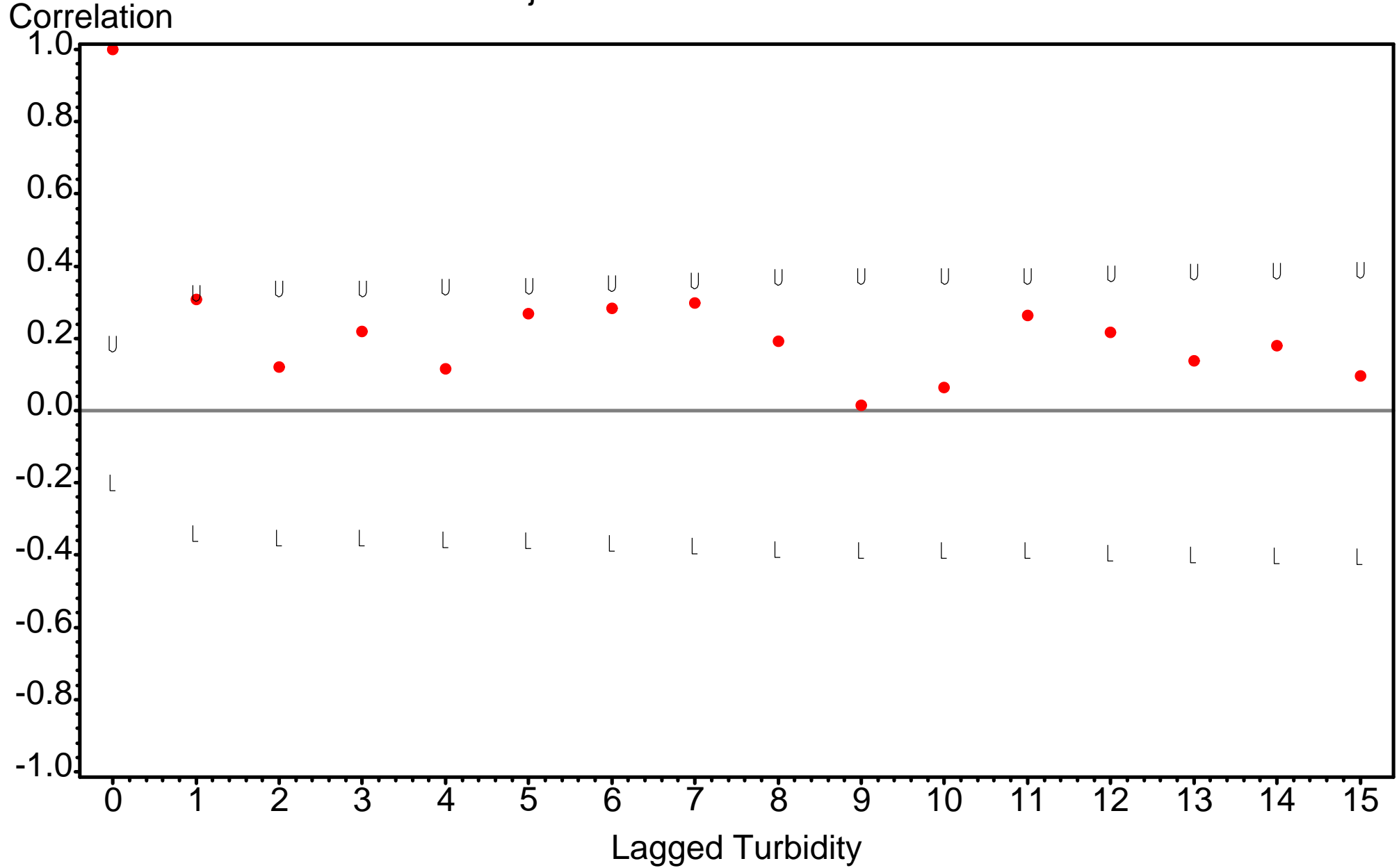
Autocorrelation Statistics for Surface Turbidity in Estero Bay

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.309	0.167	0.333	-0.333
2	0.120	0.172	0.344	-0.344
3	0.218	0.173	0.345	-0.345
4	0.116	0.175	0.350	-0.350
5	0.268	0.176	0.352	-0.352
6	0.282	0.180	0.359	-0.359
7	0.297	0.184	0.367	-0.367
8	0.193	0.188	0.376	-0.376
9	0.016	0.190	0.380	-0.380
10	0.063	0.190	0.380	-0.380
11	0.263	0.190	0.380	-0.380
12	0.217	0.193	0.387	-0.387
13	0.137	0.196	0.391	-0.391
14	0.180	0.197	0.393	-0.393
15	0.096	0.198	0.396	-0.396

Estero Bay Trends Appendix - Display 905

Correlogram for Surface Turbidity in Estero Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Estero Bay Trends Appendix - Display 906
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Estero Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.328	0	0	0.305

Estero Bay Trends Appendix - Display 907
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Estero Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.36393	.000032544	0.019026	0.329

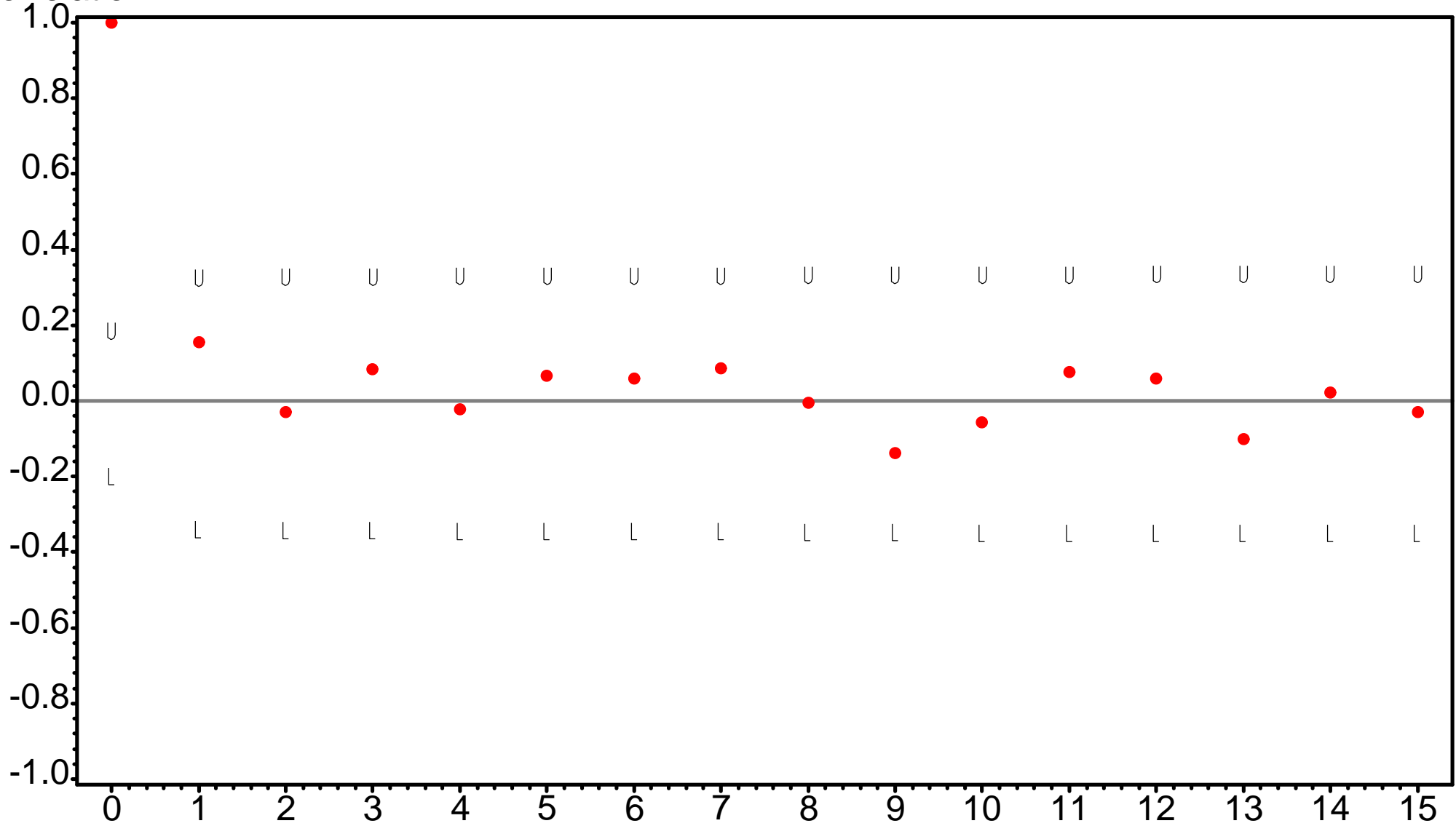
Estero Bay Trends Appendix - Display 909
Autocorrelation Statistics for Surface Turbidity in Estero Bay
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.154	0.167	0.333	-0.333
2	-0.030	0.168	0.336	-0.336
3	0.083	0.168	0.336	-0.336
4	-0.021	0.168	0.337	-0.337
5	0.066	0.168	0.337	-0.337
6	0.059	0.169	0.337	-0.337
7	0.085	0.169	0.338	-0.338
8	-0.004	0.169	0.339	-0.339
9	-0.138	0.169	0.339	-0.339
10	-0.056	0.170	0.341	-0.341
11	0.077	0.170	0.341	-0.341
12	0.058	0.171	0.342	-0.342
13	-0.101	0.171	0.342	-0.342
14	0.022	0.172	0.343	-0.343
15	-0.030	0.172	0.343	-0.343

Estero Bay Trends Appendix - Display 910

Correlogram for Surface Turbidity in Estero Bay
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Turbidity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

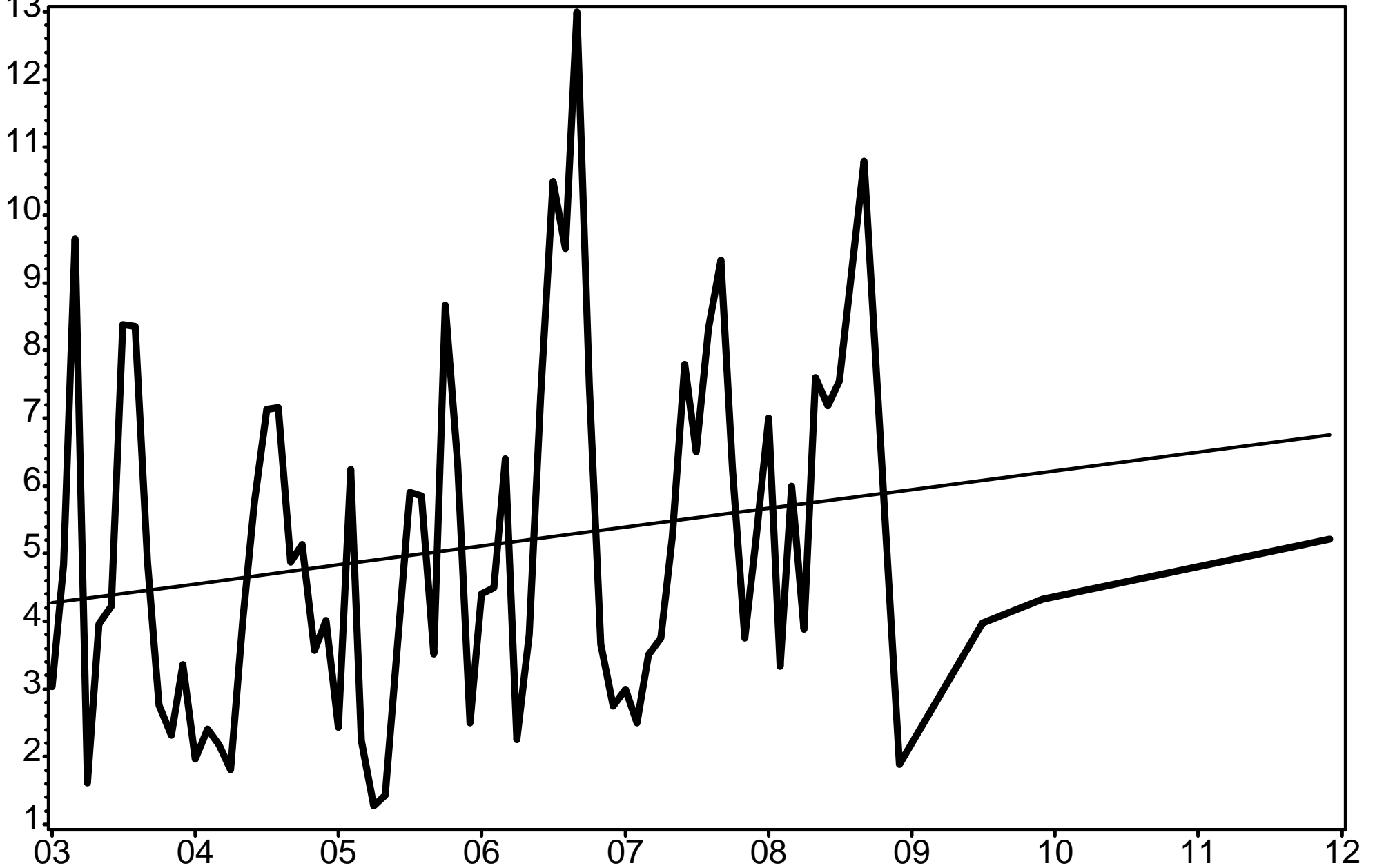
Lower Lemon Bay Trends Appendix - Display 911

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



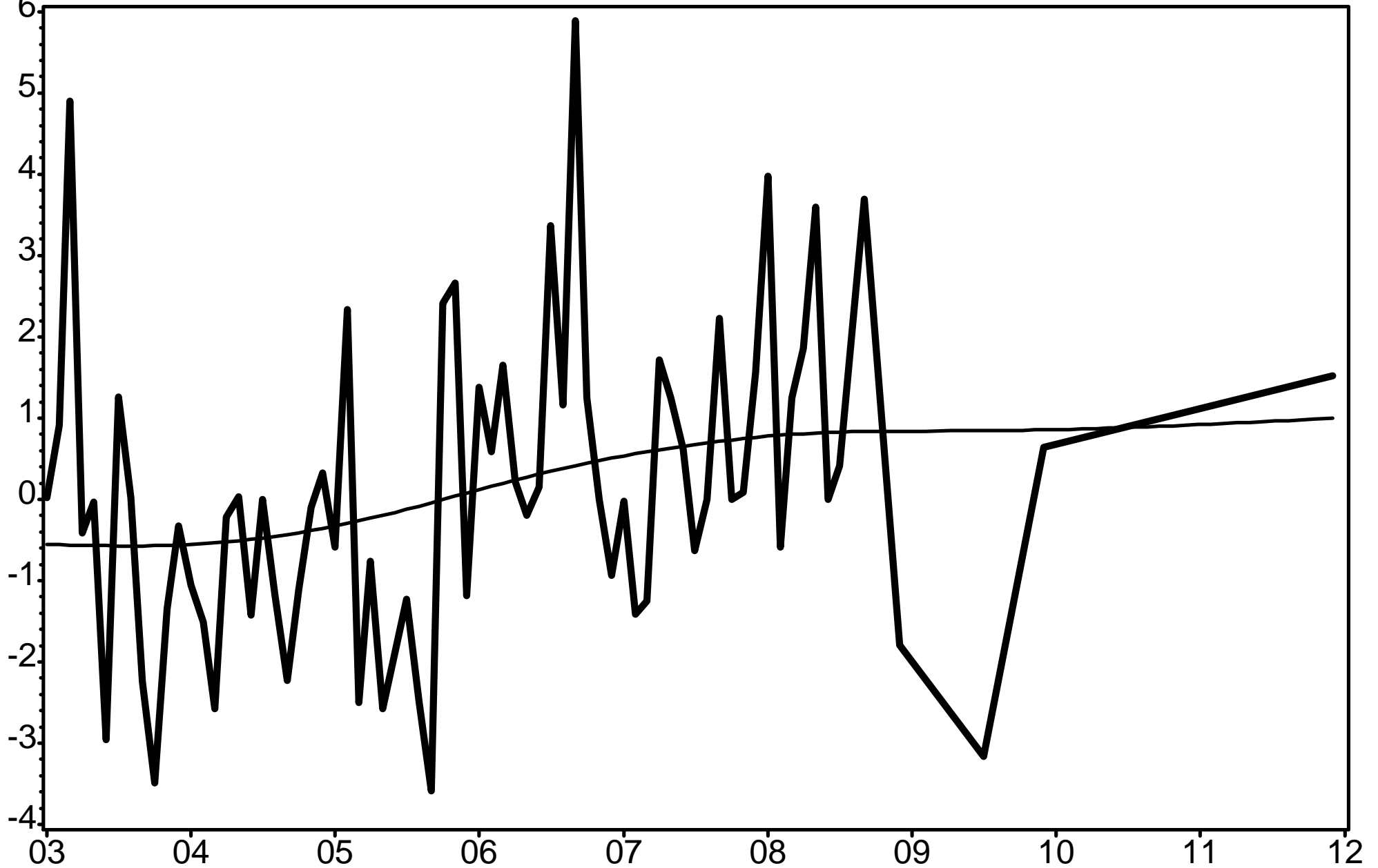
Lower Lemon Bay Trends Appendix - Display 912

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

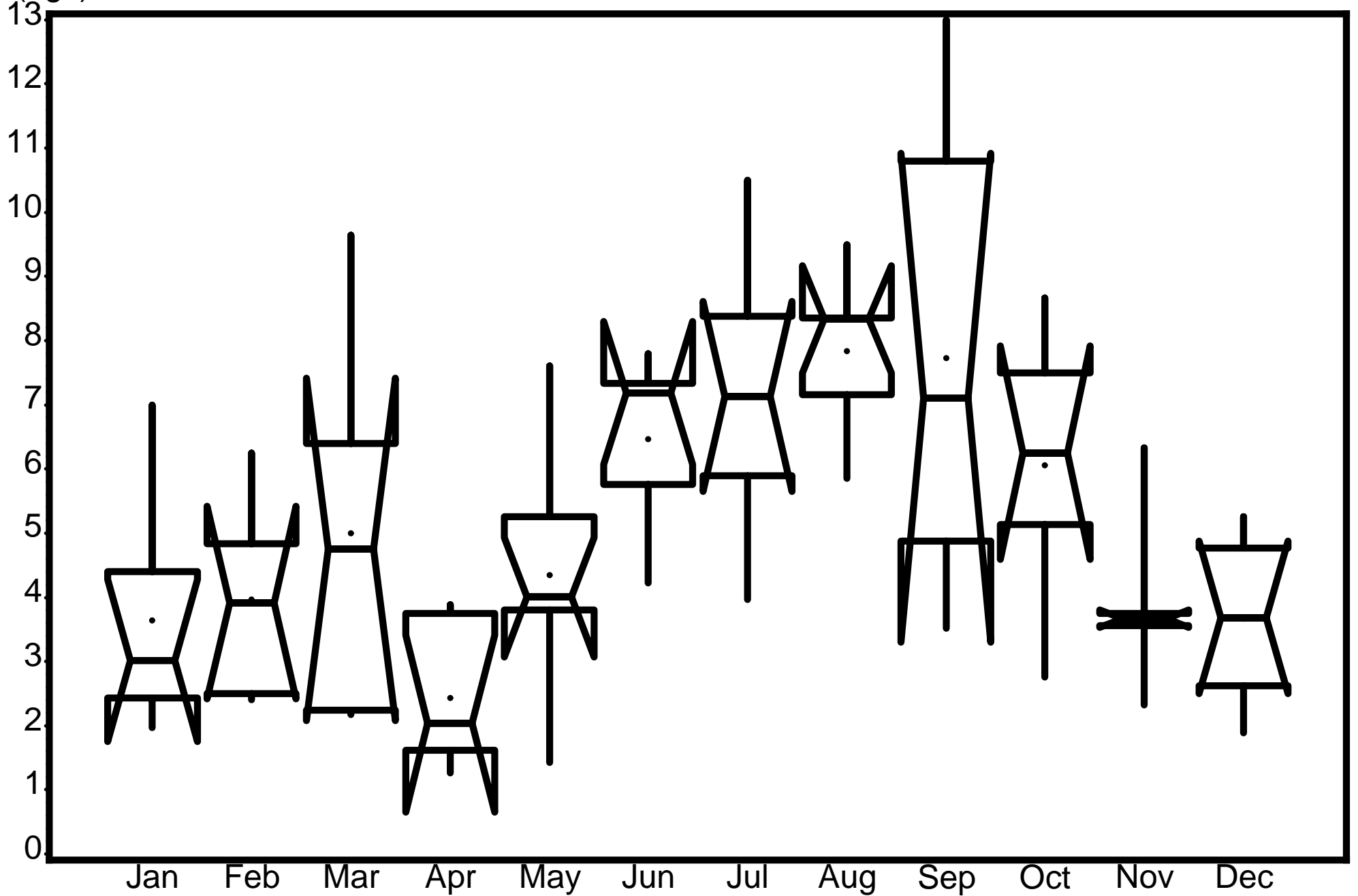


Lower Lemon Bay Trends Appendix - Display 913

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay

CHLAC_ugl
(ug/l)



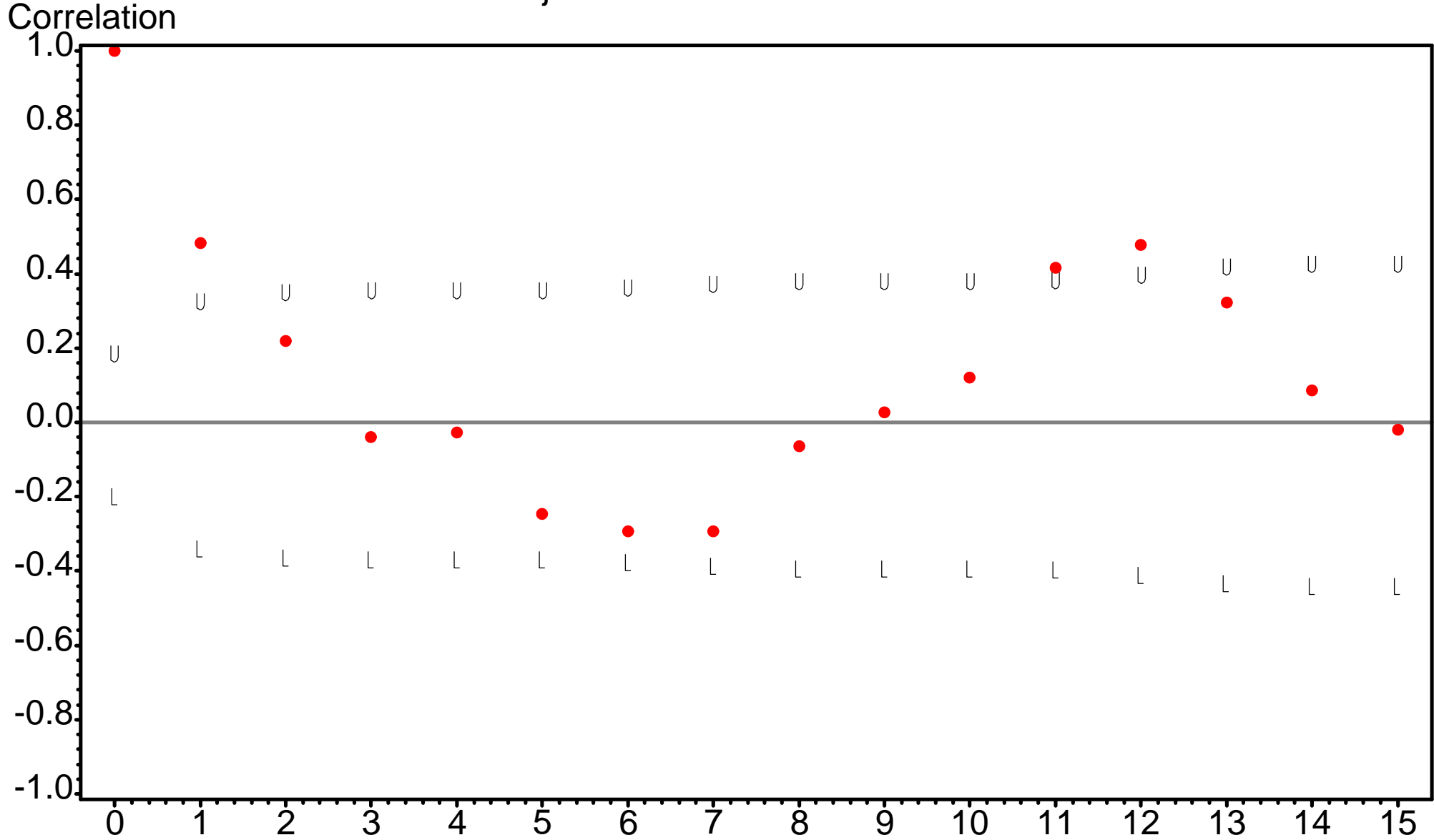
Lower Lemon Bay Trends Appendix - Display 914
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.482	0.167	0.333	-0.333
2	0.219	0.179	0.358	-0.358
3	-0.039	0.182	0.363	-0.363
4	-0.026	0.182	0.363	-0.363
5	-0.247	0.182	0.363	-0.363
6	-0.292	0.185	0.369	-0.369
7	-0.293	0.189	0.378	-0.378
8	-0.065	0.193	0.386	-0.386
9	0.028	0.193	0.387	-0.387
10	0.121	0.193	0.387	-0.387
11	0.416	0.194	0.388	-0.388
12	0.478	0.202	0.404	-0.404
13	0.323	0.212	0.425	-0.425
14	0.085	0.217	0.434	-0.434
15	-0.020	0.217	0.434	-0.434

Lower Lemon Bay Trends Appendix - Display 915

Correlogram for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 916
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay
Unadjusted for Seasonal Medians

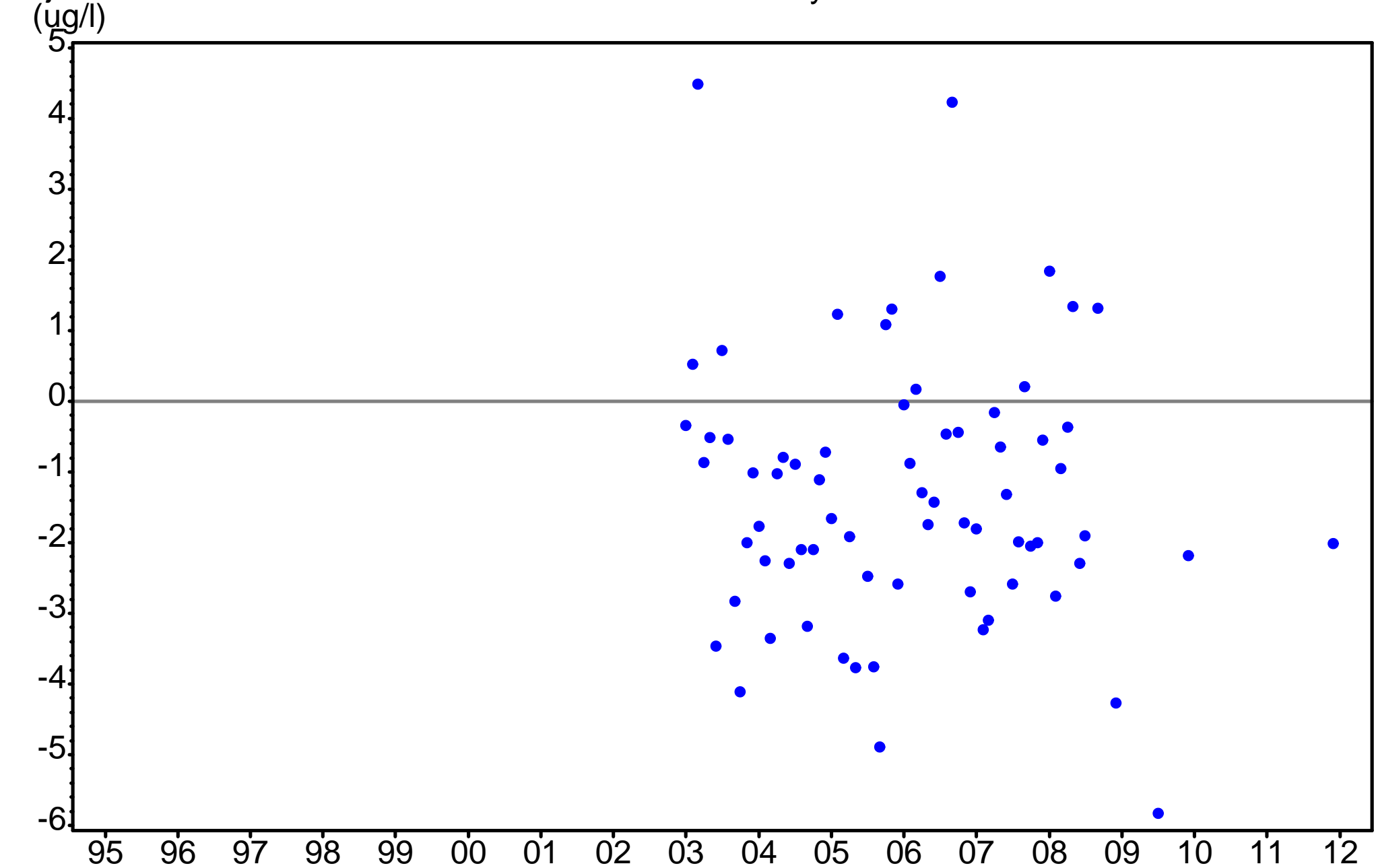
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.174	0.032	0.032	0.338

Lower Lemon Bay Trends Appendix - Display 917
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.25140	0.018063	0.10318	0.3565

Lower Lemon Bay Trends Appendix - Display 918

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Lower Lemon Bay



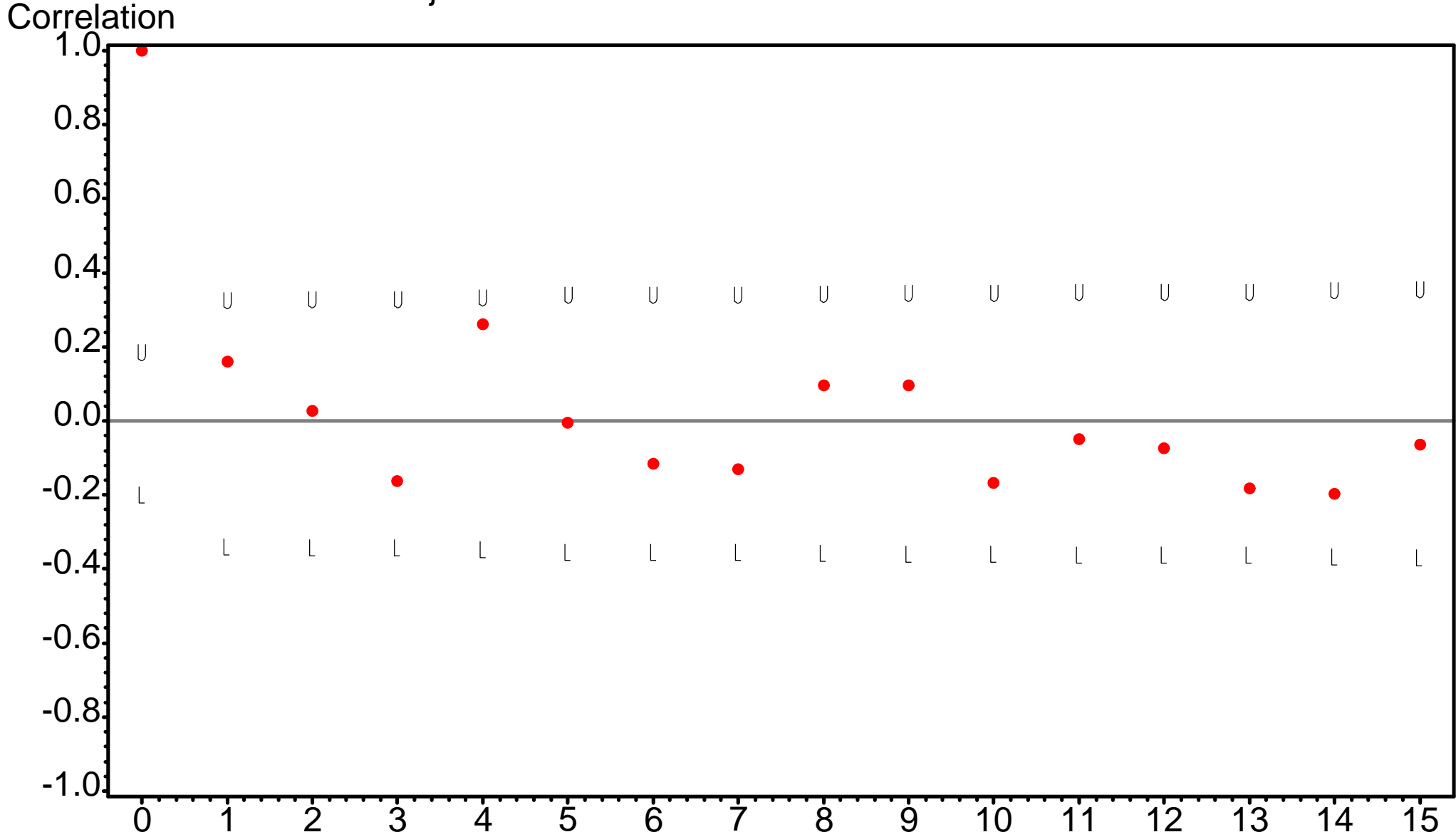
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 919
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.161	0.167	0.333	-0.333
2	0.027	0.168	0.336	-0.336
3	-0.162	0.168	0.336	-0.336
4	0.260	0.170	0.339	-0.339
5	-0.005	0.173	0.346	-0.346
6	-0.115	0.173	0.346	-0.346
7	-0.131	0.174	0.348	-0.348
8	0.097	0.175	0.350	-0.350
9	0.097	0.175	0.351	-0.351
10	-0.168	0.176	0.352	-0.352
11	-0.049	0.177	0.355	-0.355
12	-0.075	0.177	0.355	-0.355
13	-0.183	0.178	0.355	-0.355
14	-0.196	0.179	0.359	-0.359
15	-0.065	0.181	0.363	-0.363

Lower Lemon Bay Trends Appendix - Display 920

Correlogram for Surface Chlorophyll-a (Corrected) in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



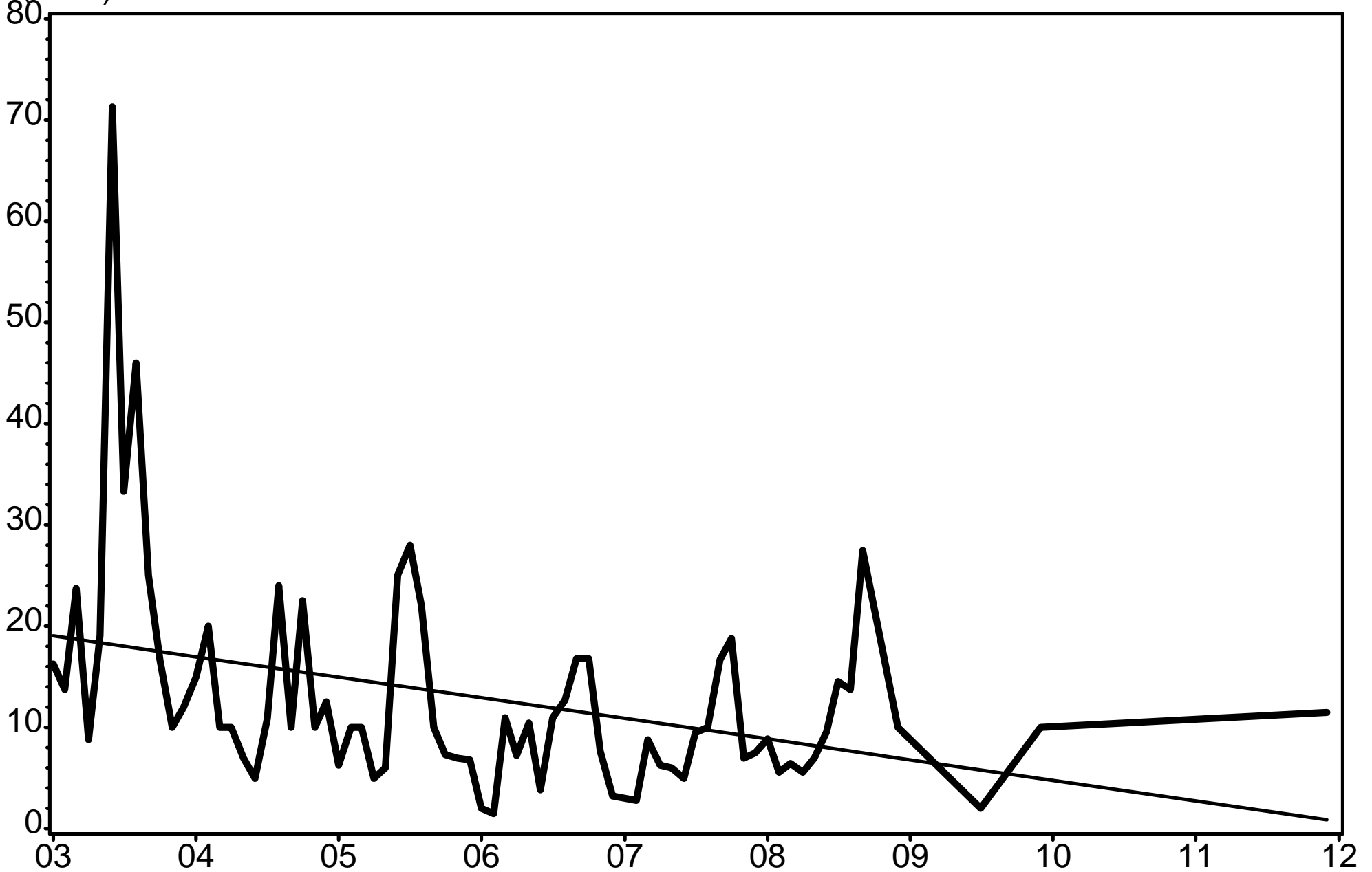
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 921

Monthly Data Time Series
for Surface Color in Lower Lemon Bay
Not Adjusted for Seasonal Medians

COLOR
(PCU)



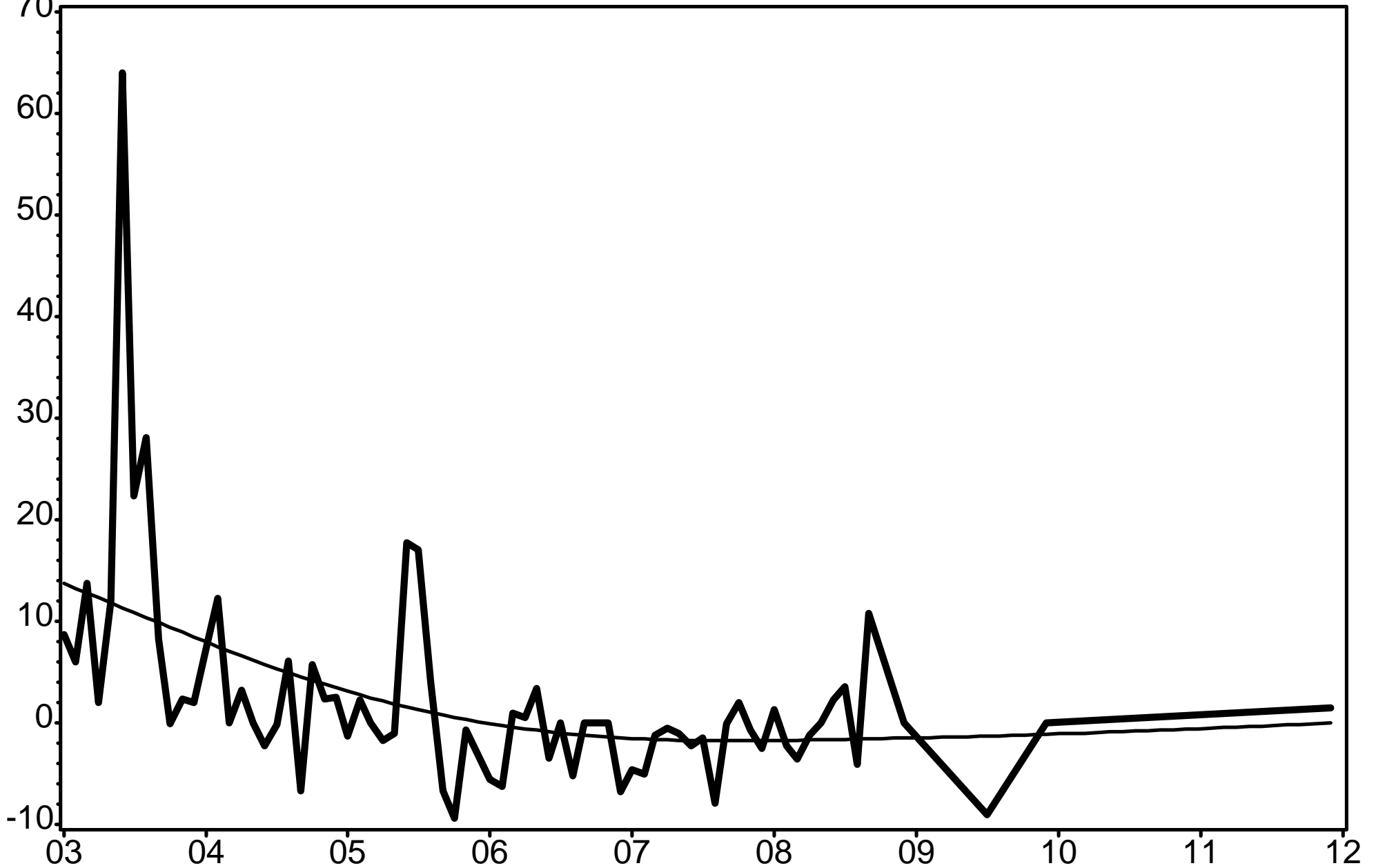
Lower Lemon Bay Trends Appendix - Display 922

Monthly Data Time Series

for Surface Color in Lower Lemon Bay

Adjusted for Seasonal Medians

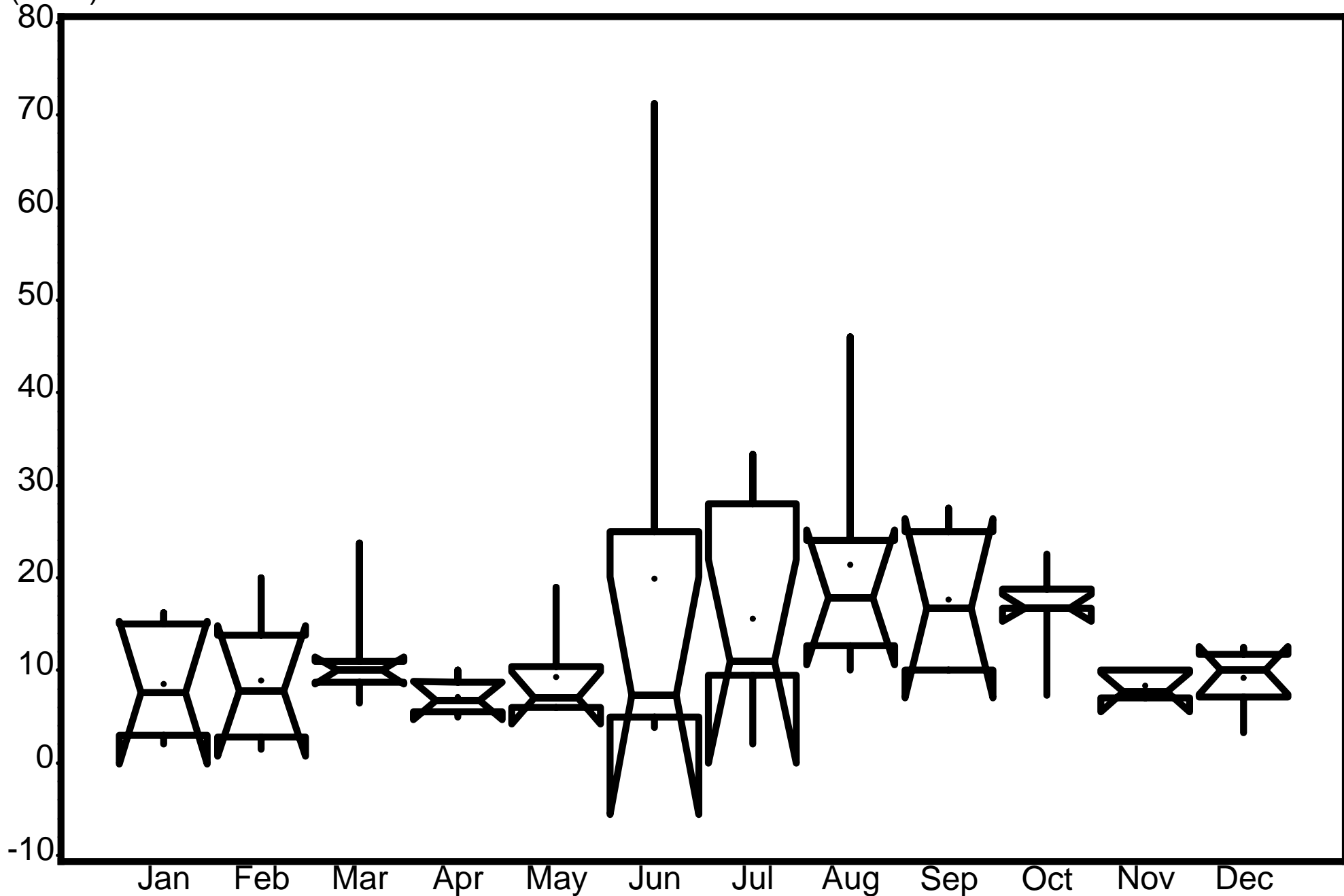
Adjusted
COLOR
(PCU)



Lower Lemon Bay Trends Appendix - Display 923

Seasonal Univariate Statistics for Surface Color in Lower Lemon Bay

COLOR
(PCU)



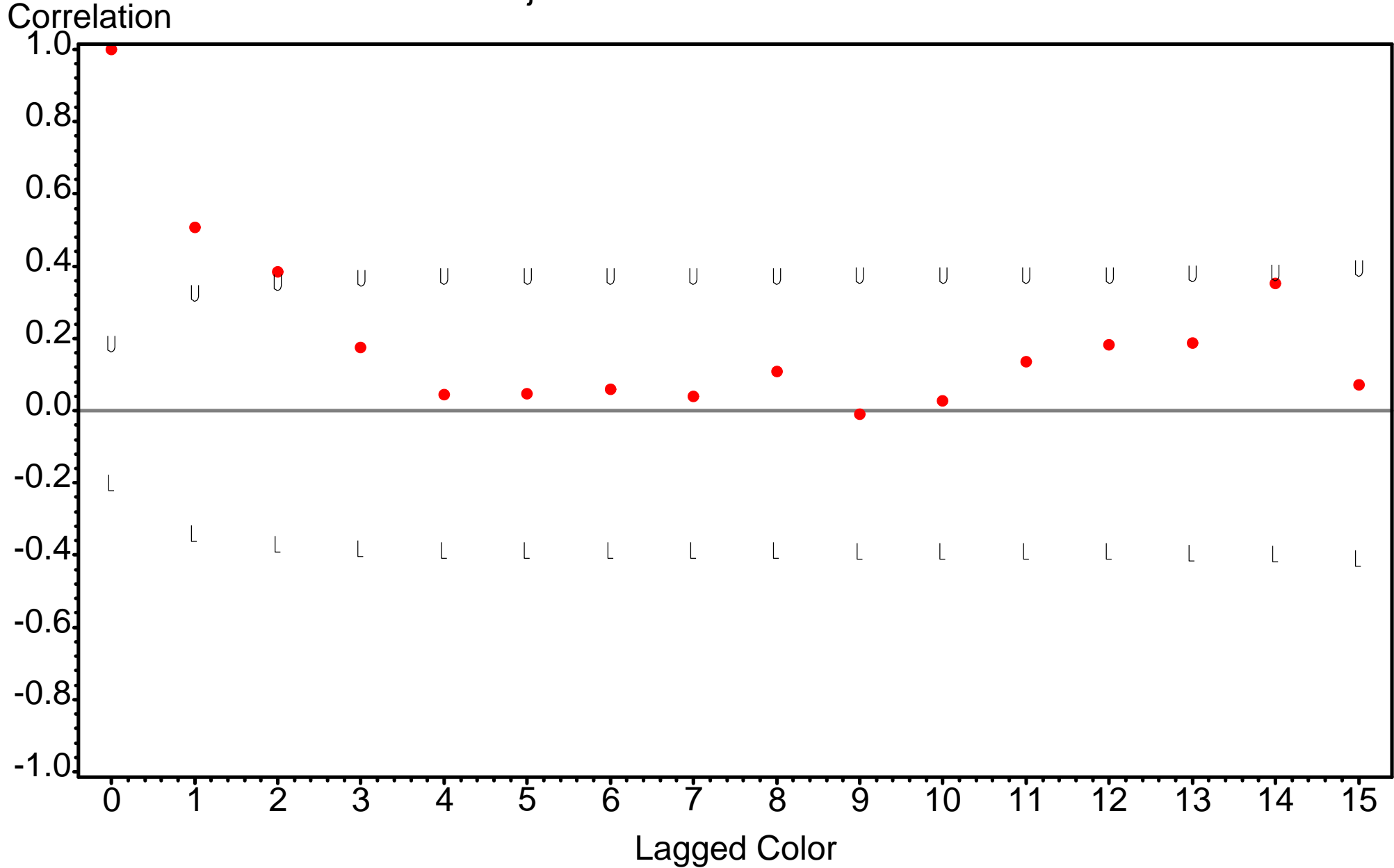
Lower Lemon Bay Trends Appendix - Display 924
Autocorrelation Statistics for Surface Color in Lower Lemon Bay

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.506	0.167	0.333	-0.333
2	0.383	0.180	0.361	-0.361
3	0.176	0.188	0.375	-0.375
4	0.044	0.189	0.379	-0.379
5	0.047	0.189	0.379	-0.379
6	0.060	0.189	0.379	-0.379
7	0.040	0.190	0.379	-0.379
8	0.109	0.190	0.379	-0.379
9	-0.010	0.190	0.381	-0.381
10	0.028	0.190	0.381	-0.381
11	0.136	0.190	0.381	-0.381
12	0.183	0.191	0.382	-0.382
13	0.186	0.193	0.386	-0.386
14	0.353	0.195	0.389	-0.389
15	0.072	0.200	0.401	-0.401

Lower Lemon Bay Trends Appendix - Display 925

Correlogram for Surface Color in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 926
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.247	.002	.002	-1.288

Lower Lemon Bay Trends Appendix - Display 927
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.32275	.00160502	0.13195	-1.1665

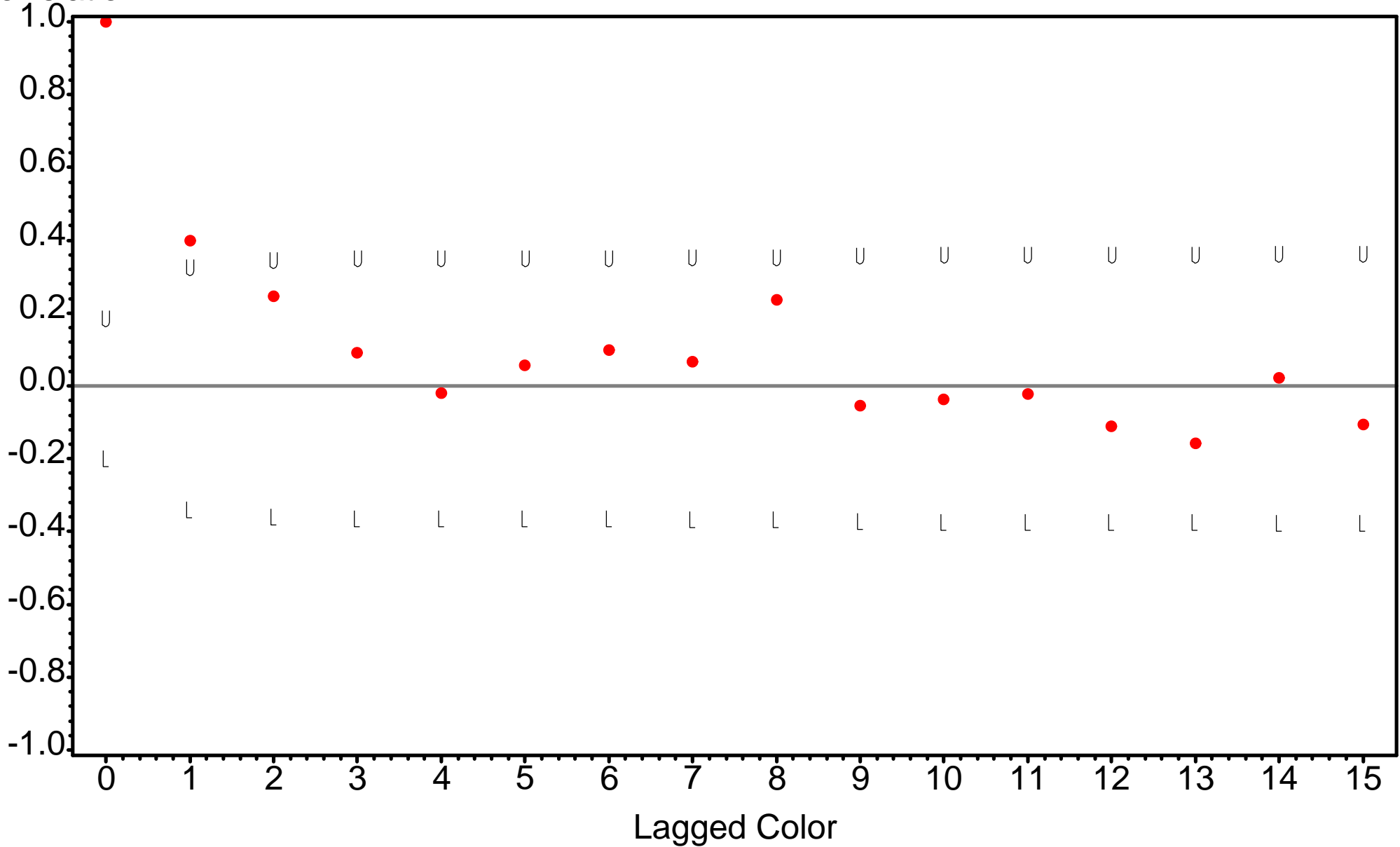
Lower Lemon Bay Trends Appendix - Display 929
Autocorrelation Statistics for Surface Color in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.399	0.167	0.333	-0.333
2	0.246	0.175	0.351	-0.351
3	0.091	0.178	0.357	-0.357
4	-0.020	0.179	0.358	-0.358
5	0.056	0.179	0.358	-0.358
6	0.099	0.179	0.358	-0.358
7	0.067	0.180	0.359	-0.359
8	0.236	0.180	0.360	-0.360
9	-0.054	0.183	0.365	-0.365
10	-0.038	0.183	0.366	-0.366
11	-0.023	0.183	0.366	-0.366
12	-0.110	0.183	0.366	-0.366
13	-0.157	0.184	0.367	-0.367
14	0.022	0.185	0.370	-0.370
15	-0.105	0.185	0.370	-0.370

Lower Lemon Bay Trends Appendix - Display 930

Correlogram for Surface Color in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

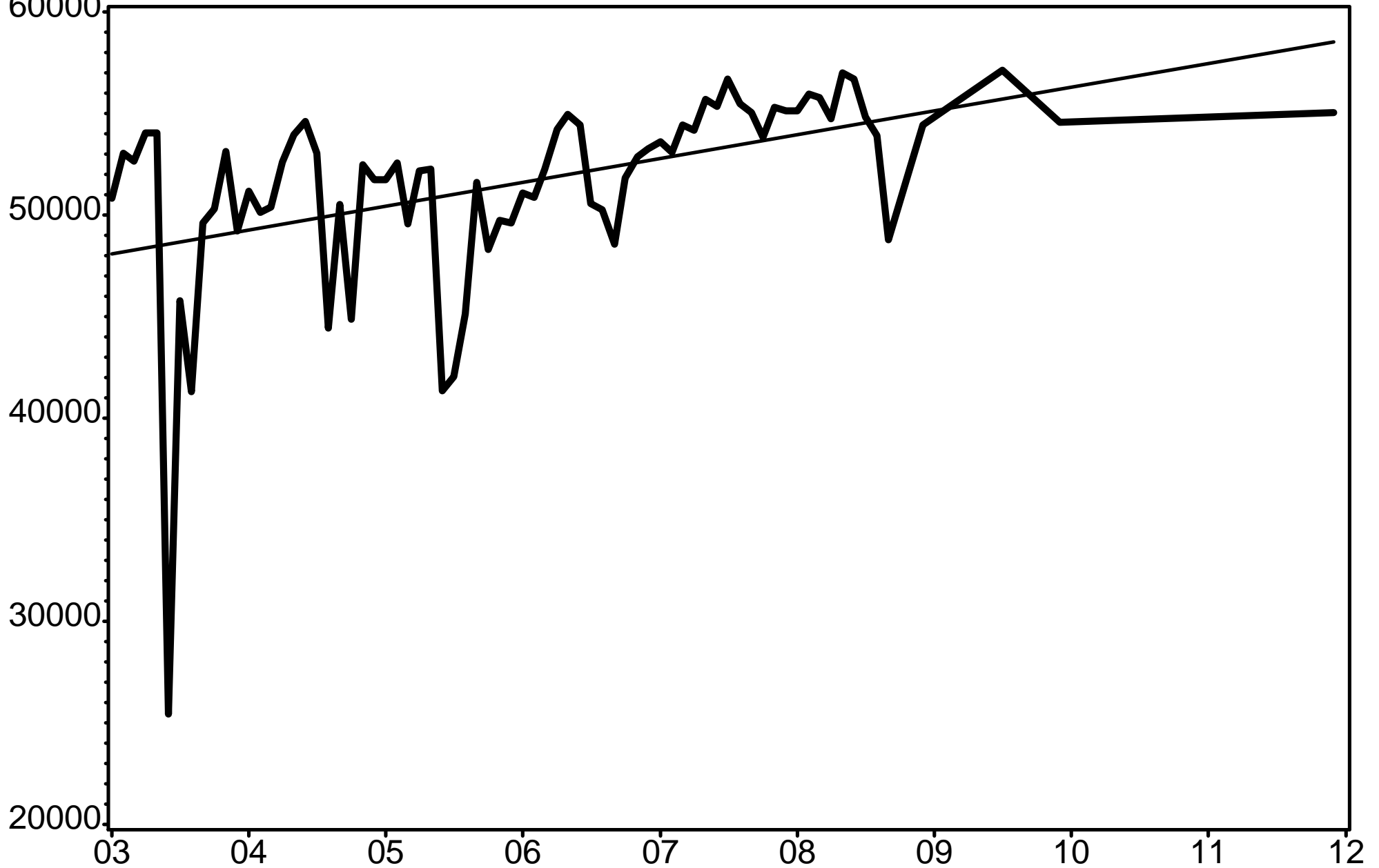
Lower Lemon Bay Trends Appendix - Display 931

Monthly Data Time Series

for Surface Specific Conductance in Lower Lemon Bay

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



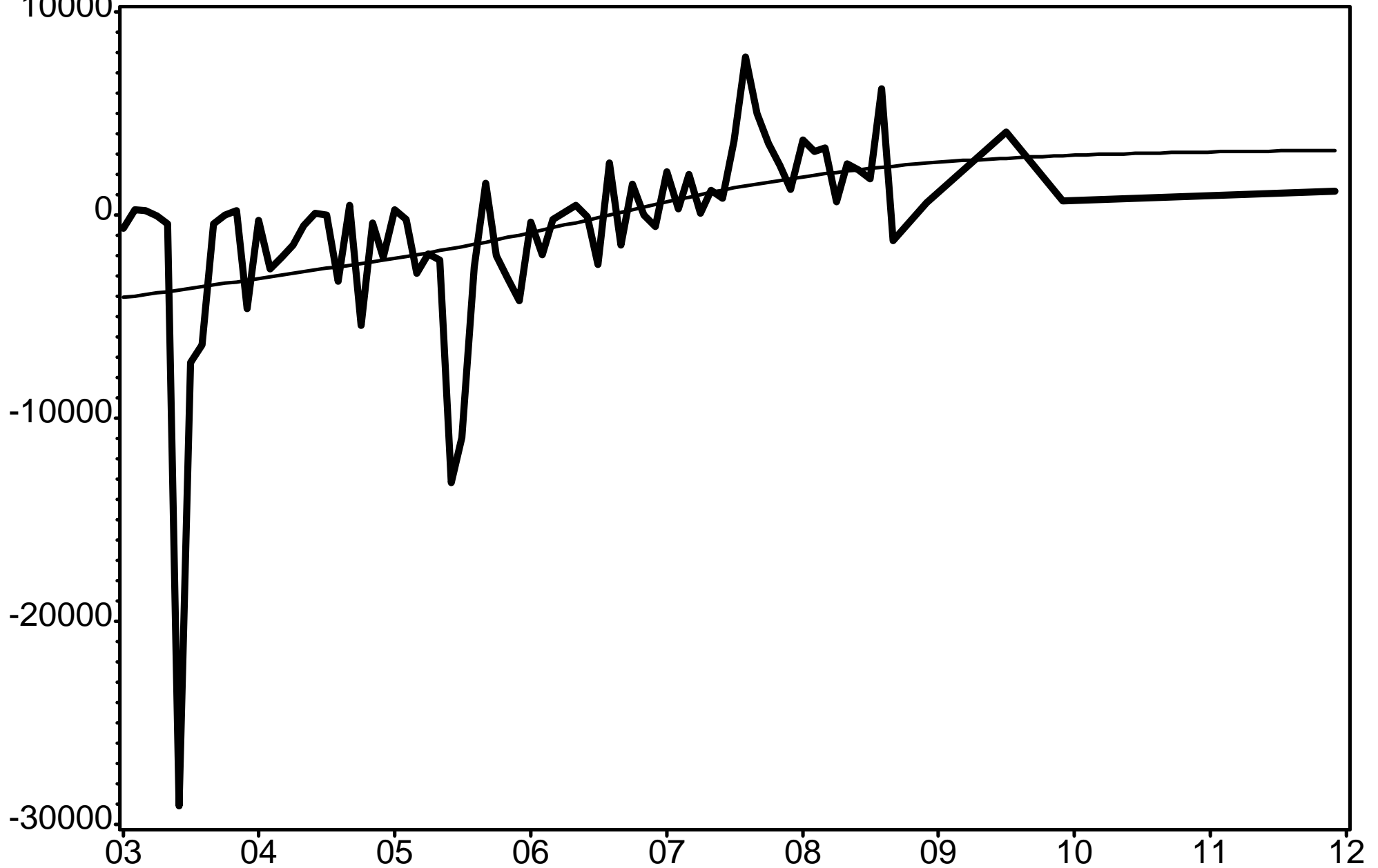
Lower Lemon Bay Trends Appendix - Display 932

Monthly Data Time Series

for Surface Specific Conductance in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
10000



Lower Lemon Bay Trends Appendix - Display 933

Seasonal Univariate Statistics

for Surface Specific Conductance in Lower Lemon Bay

COND
($\mu\text{S}/\text{cm}$)

60000

50000

40000

30000

20000

Jan

Feb

Mar

Apr

May

Jun

Jul

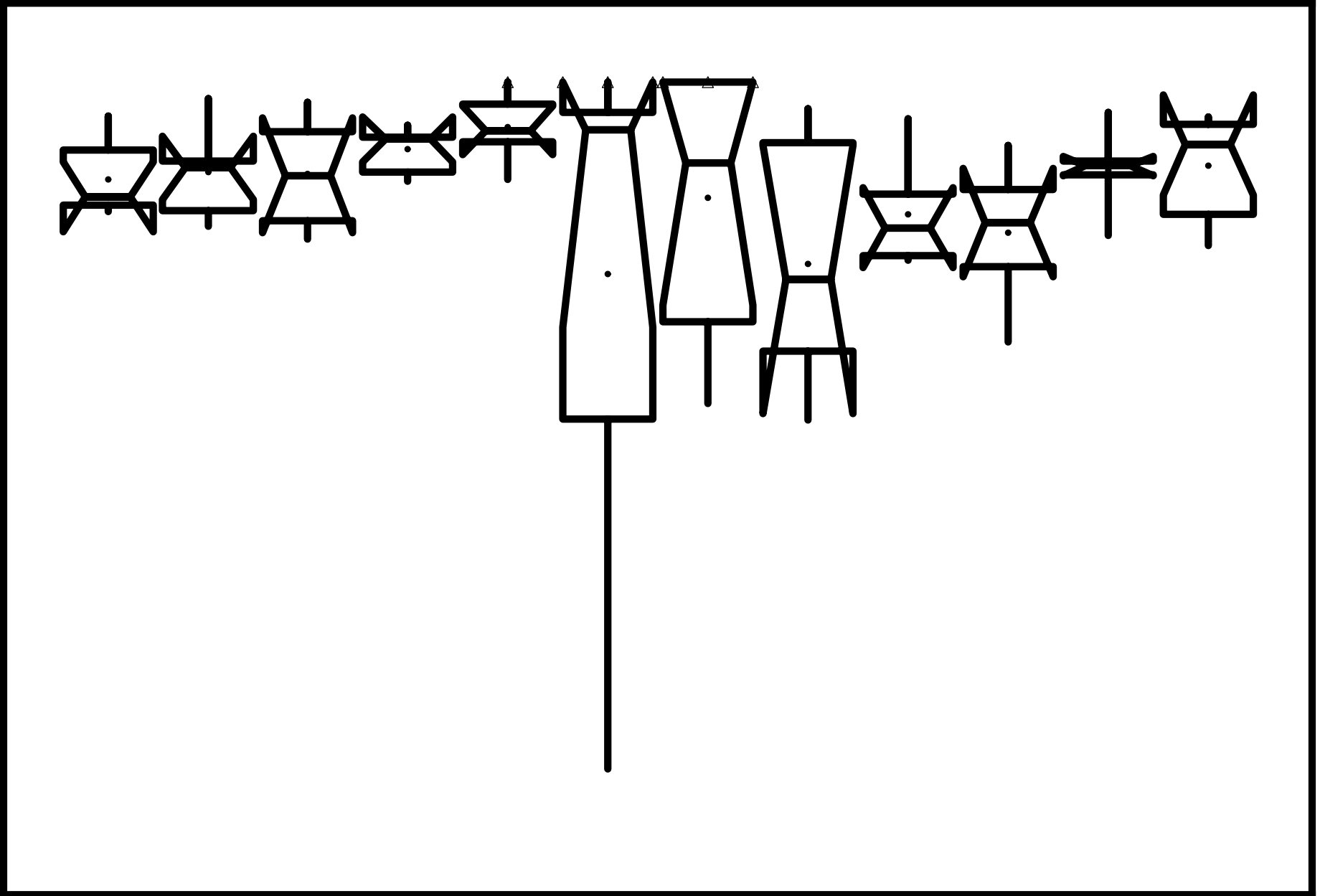
Aug

Sep

Oct

Nov

Dec



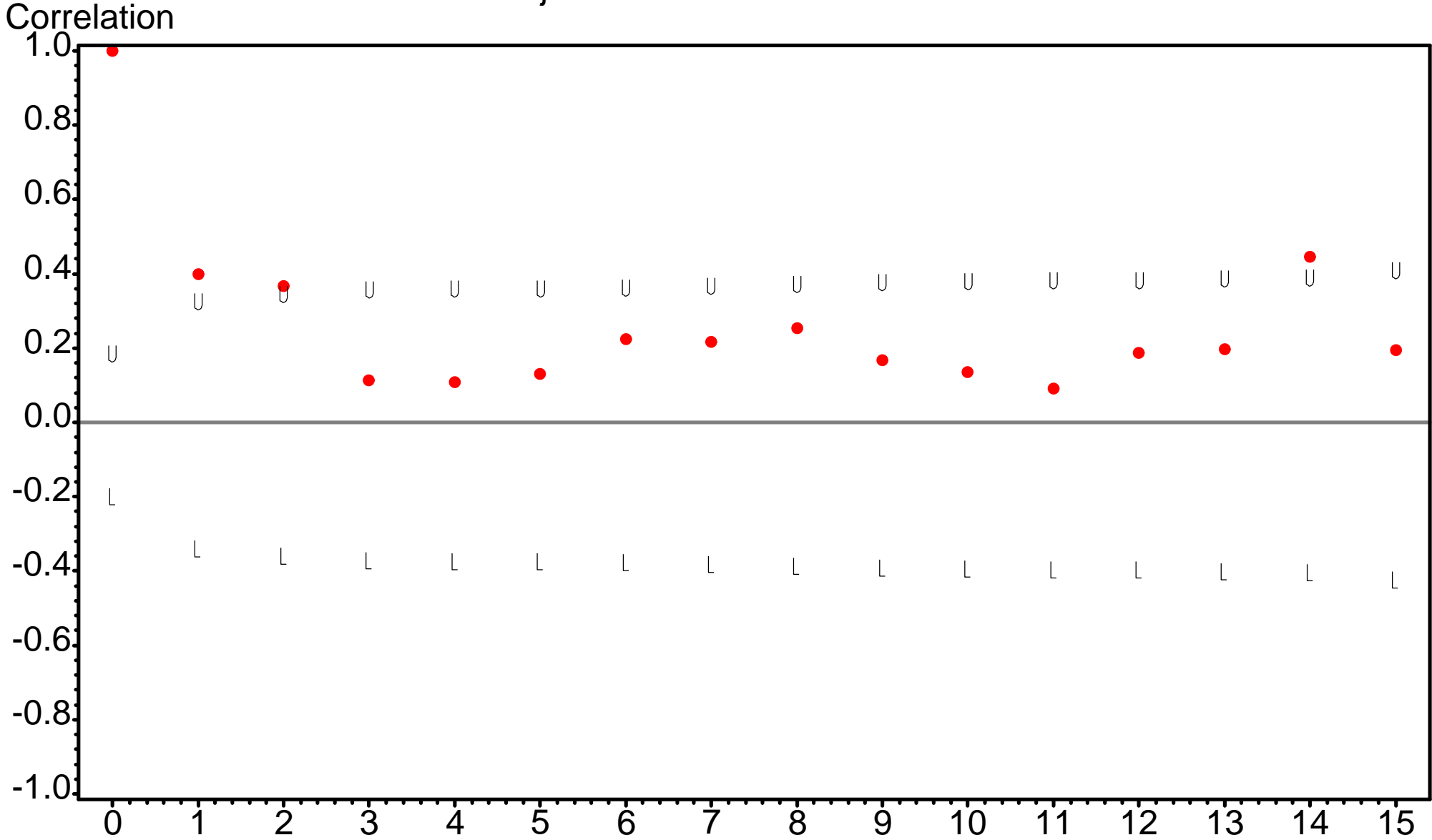
Lower Lemon Bay Trends Appendix - Display 934
Autocorrelation Statistics for Surface Specific Conductance in Lower Lemon Bay

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.400	0.167	0.333	-0.333
2	0.366	0.175	0.351	-0.351
3	0.114	0.182	0.365	-0.365
4	0.109	0.183	0.366	-0.366
5	0.131	0.184	0.367	-0.367
6	0.224	0.184	0.369	-0.369
7	0.217	0.187	0.374	-0.374
8	0.253	0.189	0.378	-0.378
9	0.168	0.192	0.385	-0.385
10	0.135	0.194	0.387	-0.387
11	0.090	0.195	0.389	-0.389
12	0.187	0.195	0.390	-0.390
13	0.198	0.197	0.393	-0.393
14	0.446	0.198	0.397	-0.397
15	0.195	0.208	0.415	-0.415

Lower Lemon Bay Trends Appendix - Display 935

Correlogram for Surface Specific Conductance in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 936
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.432	0	0	955.314

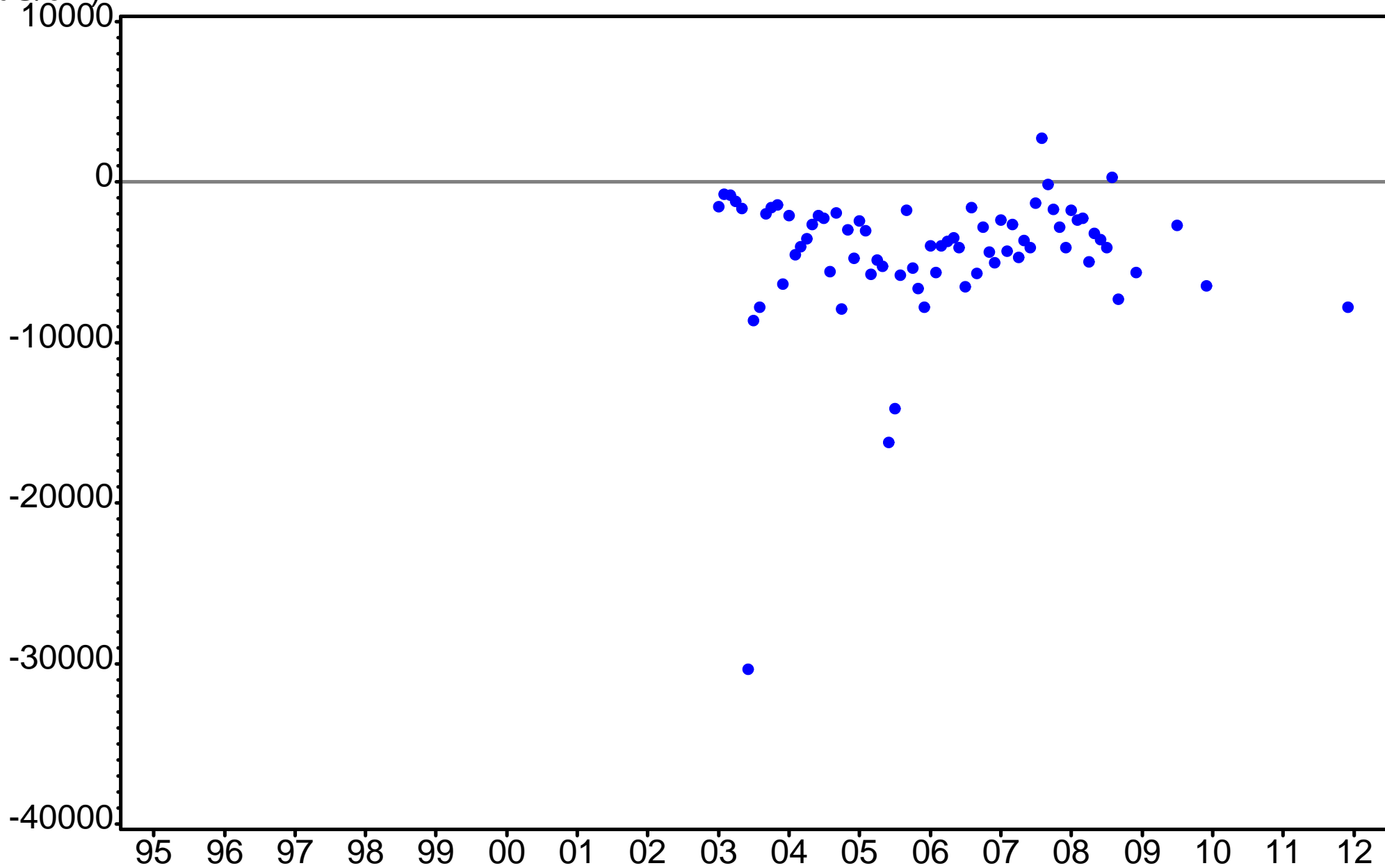
Lower Lemon Bay Trends Appendix - Display 937
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.56614	0	0.023518	902.083

Lower Lemon Bay Trends Appendix - Display 938

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(uS/cm)



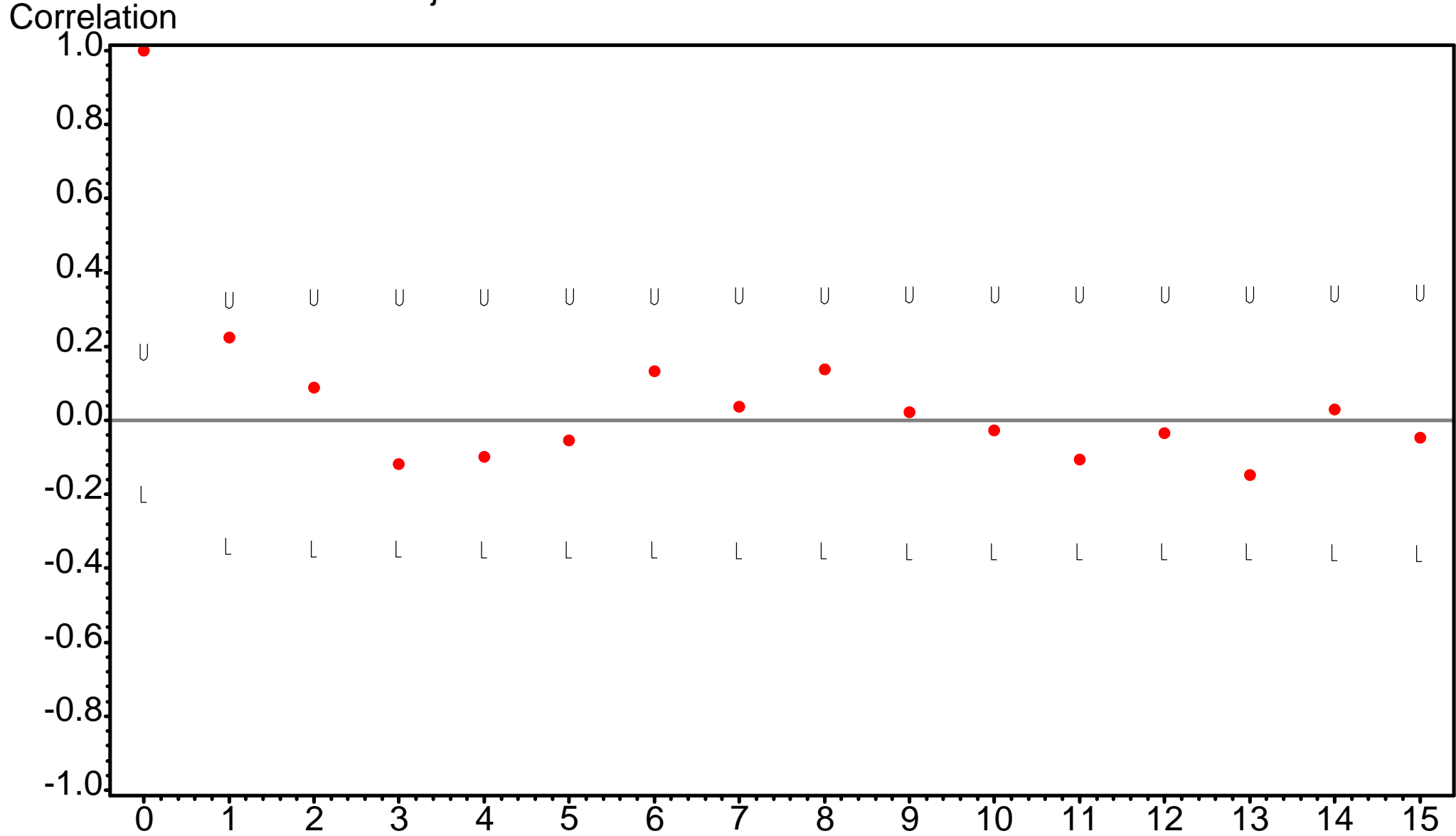
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 939
Autocorrelation Statistics for Surface Specific Conductance in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.224	0.167	0.333	-0.333
2	0.089	0.169	0.339	-0.339
3	-0.119	0.170	0.340	-0.340
4	-0.099	0.171	0.341	-0.341
5	-0.054	0.171	0.342	-0.342
6	0.132	0.171	0.343	-0.343
7	0.038	0.172	0.344	-0.344
8	0.138	0.172	0.345	-0.345
9	0.022	0.173	0.347	-0.347
10	-0.027	0.173	0.347	-0.347
11	-0.106	0.173	0.347	-0.347
12	-0.035	0.174	0.348	-0.348
13	-0.148	0.174	0.348	-0.348
14	0.030	0.175	0.350	-0.350
15	-0.046	0.175	0.351	-0.351

Lower Lemon Bay Trends Appendix - Display 940

Correlogram for Surface Specific Conductance in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

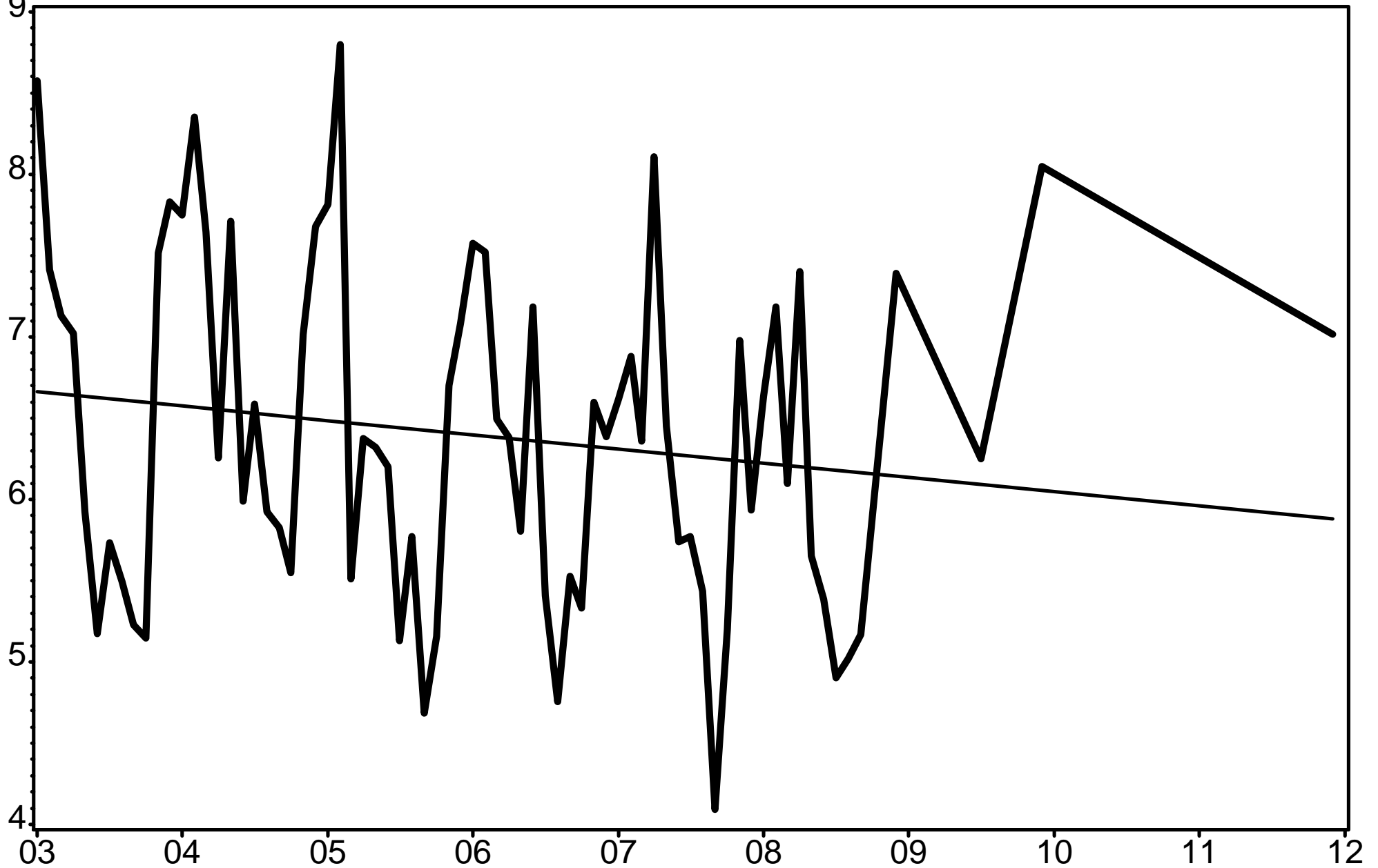
Lower Lemon Bay Trends Appendix - Display 941

Monthly Data Time Series

for Surface Dissolved Oxygen in Lower Lemon Bay

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



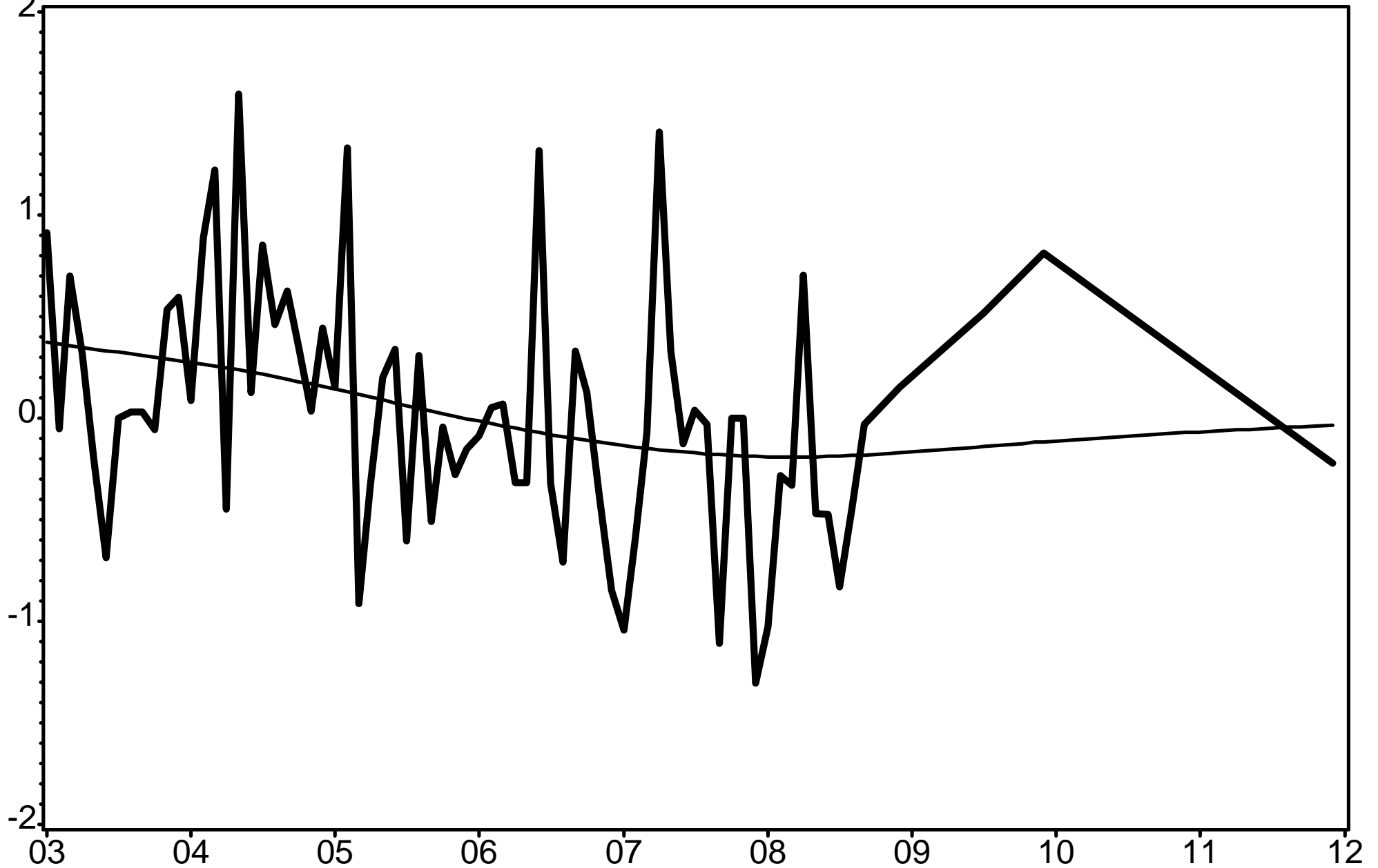
Lower Lemon Bay Trends Appendix - Display 942

Monthly Data Time Series

for Surface Dissolved Oxygen in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

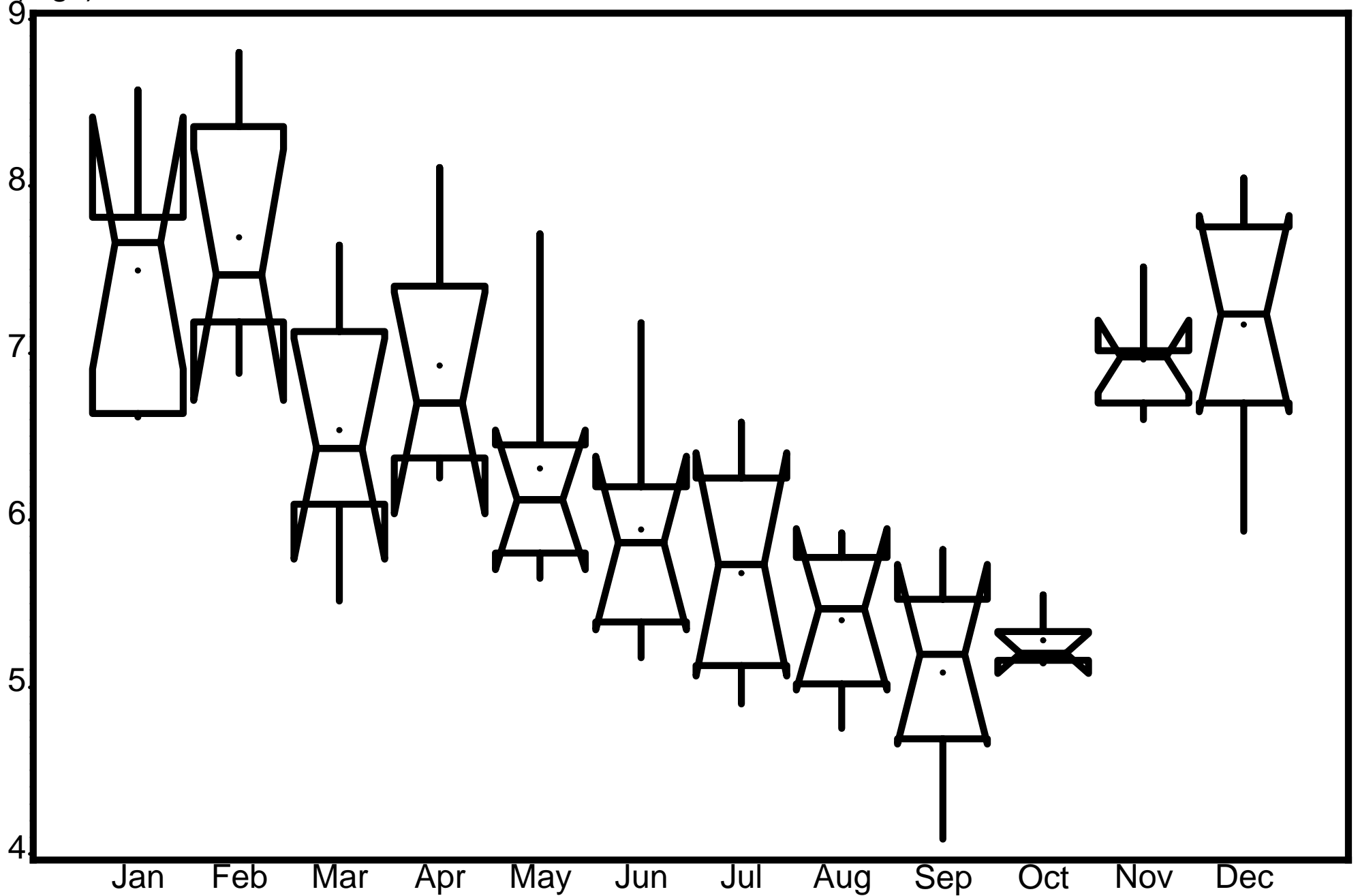


Lower Lemon Bay Trends Appendix - Display 943

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Lower Lemon Bay

DO_mgl
(mg/l)



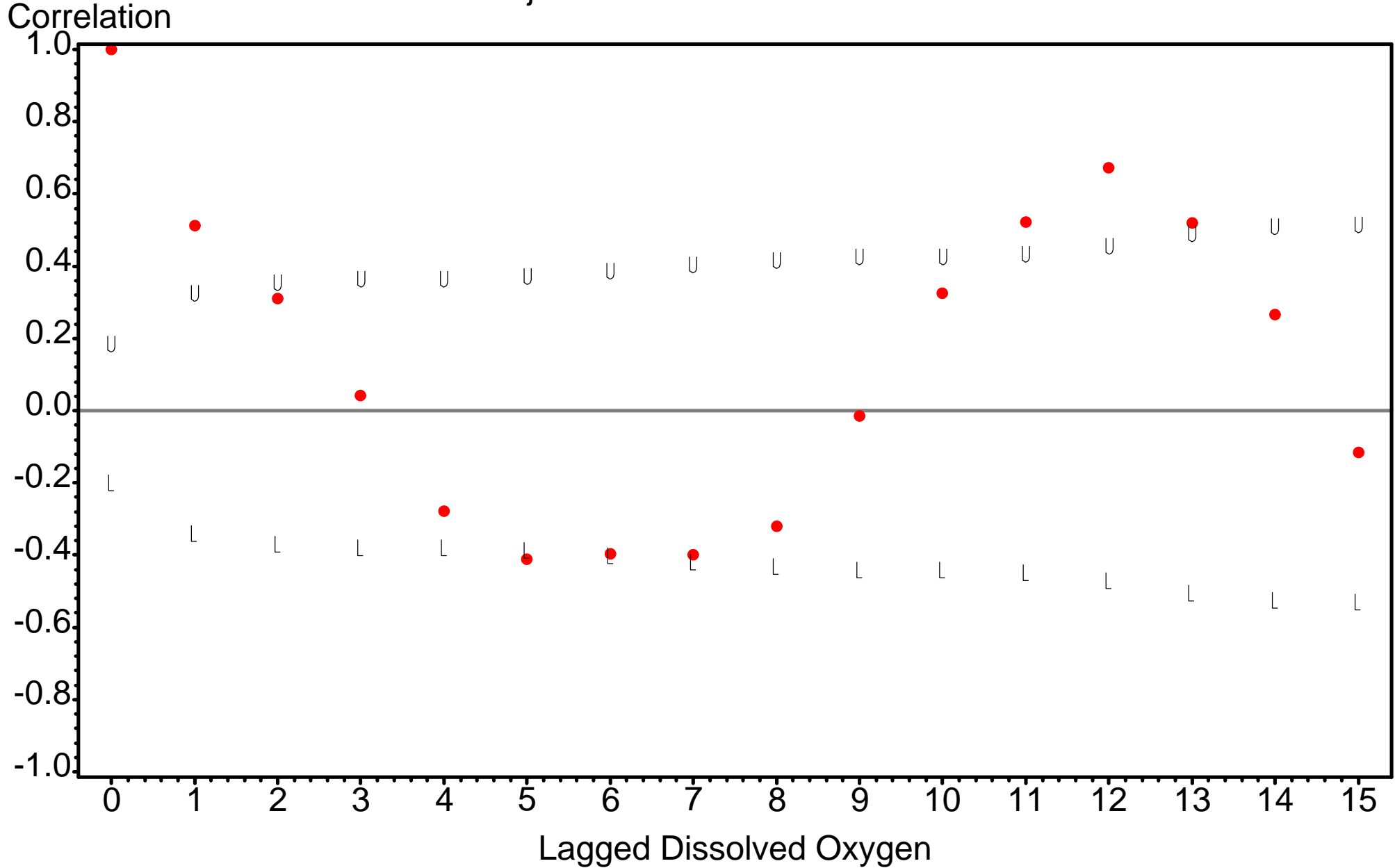
Lower Lemon Bay Trends Appendix - Display 944
Autocorrelation Statistics for Surface Dissolved Oxygen in Lower Lemon Bay

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.513	0.167	0.333	-0.333
2	0.310	0.181	0.361	-0.361
3	0.042	0.186	0.371	-0.371
4	-0.279	0.186	0.371	-0.371
5	-0.411	0.189	0.379	-0.379
6	-0.396	0.198	0.395	-0.395
7	-0.399	0.205	0.410	-0.410
8	-0.321	0.212	0.424	-0.424
9	-0.015	0.216	0.433	-0.433
10	0.324	0.216	0.433	-0.433
11	0.522	0.221	0.441	-0.441
12	0.671	0.232	0.464	-0.464
13	0.520	0.249	0.498	-0.498
14	0.265	0.259	0.518	-0.518
15	-0.115	0.262	0.523	-0.523

Lower Lemon Bay Trends Appendix - Display 945

Correlogram for Surface Dissolved Oxygen in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 946
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.126	0.115	0.115	-0.108

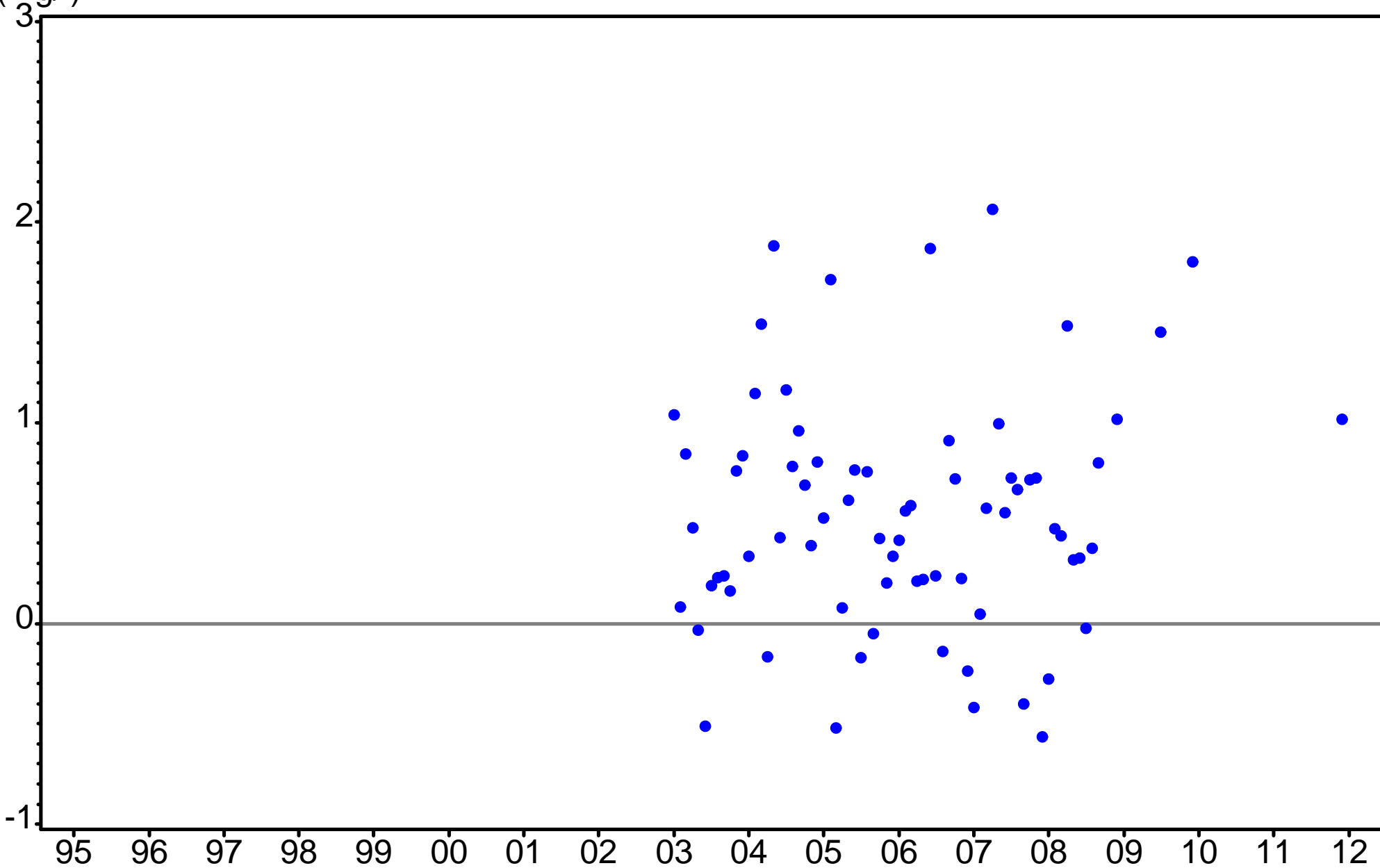
Lower Lemon Bay Trends Appendix - Display 947
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.22751	0.028929	0.15926	-0.12467

Lower Lemon Bay Trends Appendix - Display 948

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(mg/l)



Zero Reference Line Shown

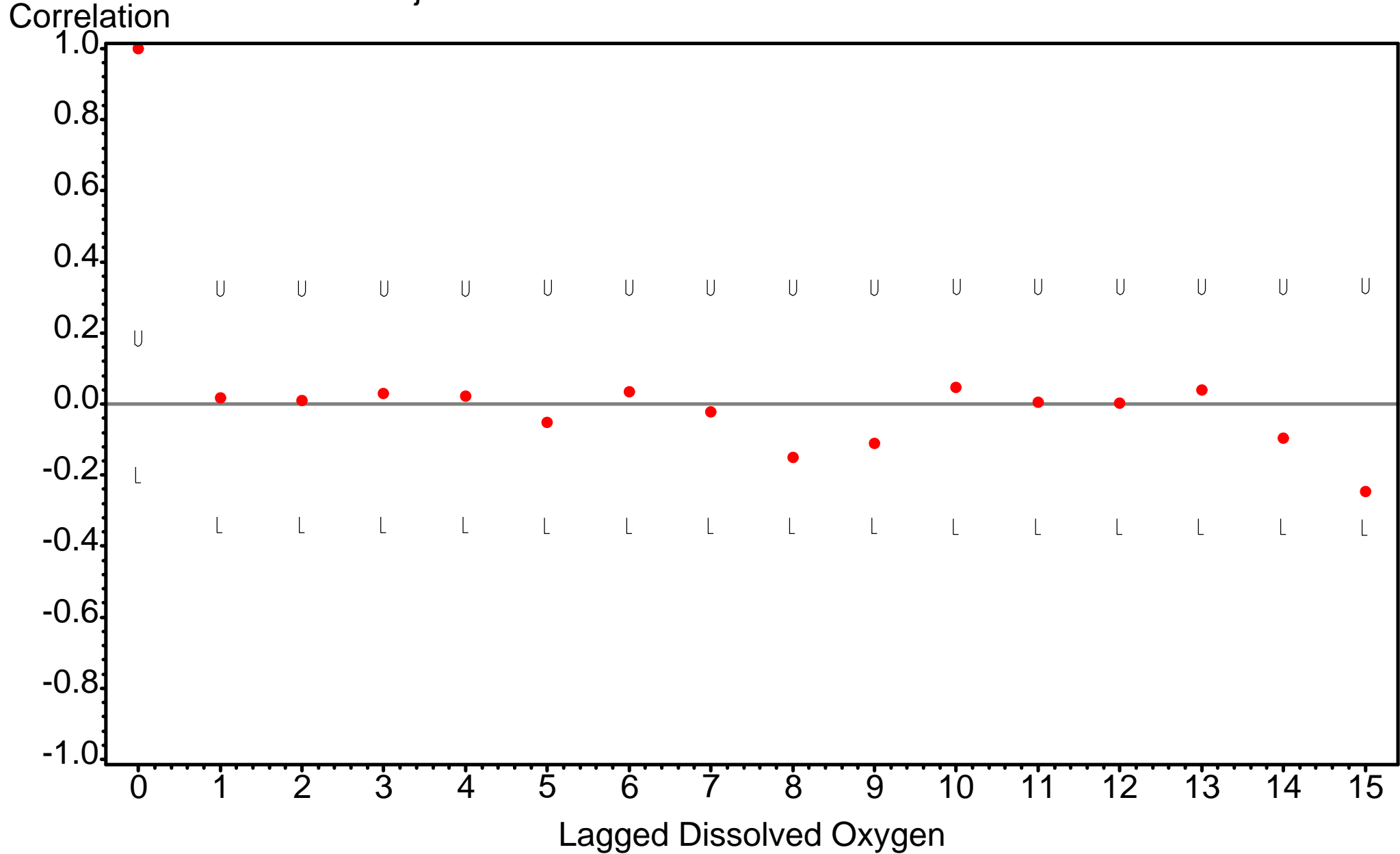
Lower Lemon Bay Trends Appendix - Display 949
Autocorrelation Statistics for Surface Dissolved Oxygen in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.017	0.167	0.333	-0.333
2	0.009	0.167	0.333	-0.333
3	0.030	0.167	0.333	-0.333
4	0.021	0.167	0.333	-0.333
5	-0.051	0.167	0.334	-0.334
6	0.035	0.167	0.334	-0.334
7	-0.023	0.167	0.334	-0.334
8	-0.149	0.167	0.334	-0.334
9	-0.110	0.168	0.336	-0.336
10	0.048	0.169	0.338	-0.338
11	0.006	0.169	0.338	-0.338
12	0.003	0.169	0.338	-0.338
13	0.040	0.169	0.338	-0.338
14	-0.097	0.169	0.338	-0.338
15	-0.247	0.170	0.339	-0.339

Lower Lemon Bay Trends Appendix - Display 950

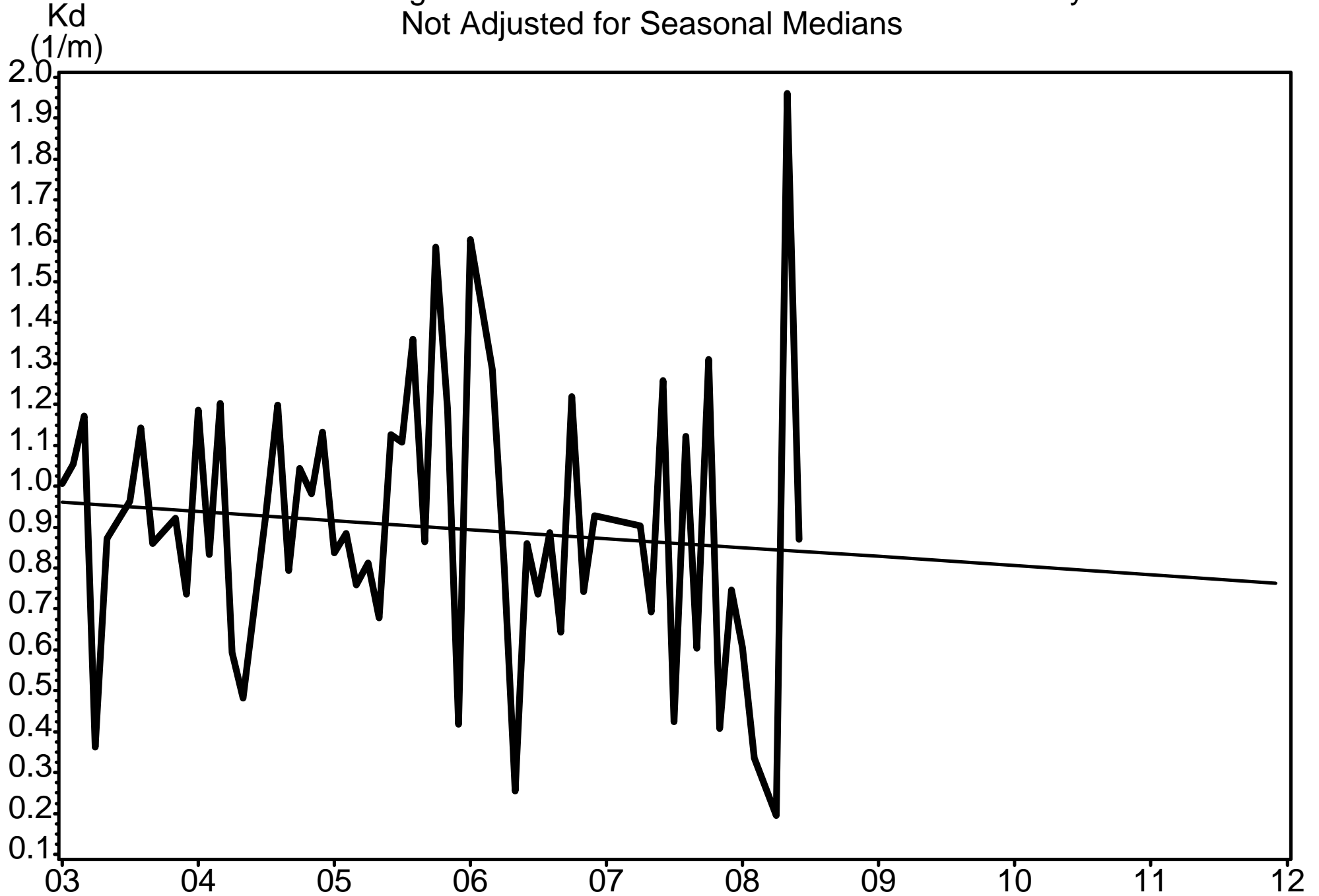
Correlogram for Surface Dissolved Oxygen in Lower Lemon Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 951
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Lower Lemon Bay
Not Adjusted for Seasonal Medians



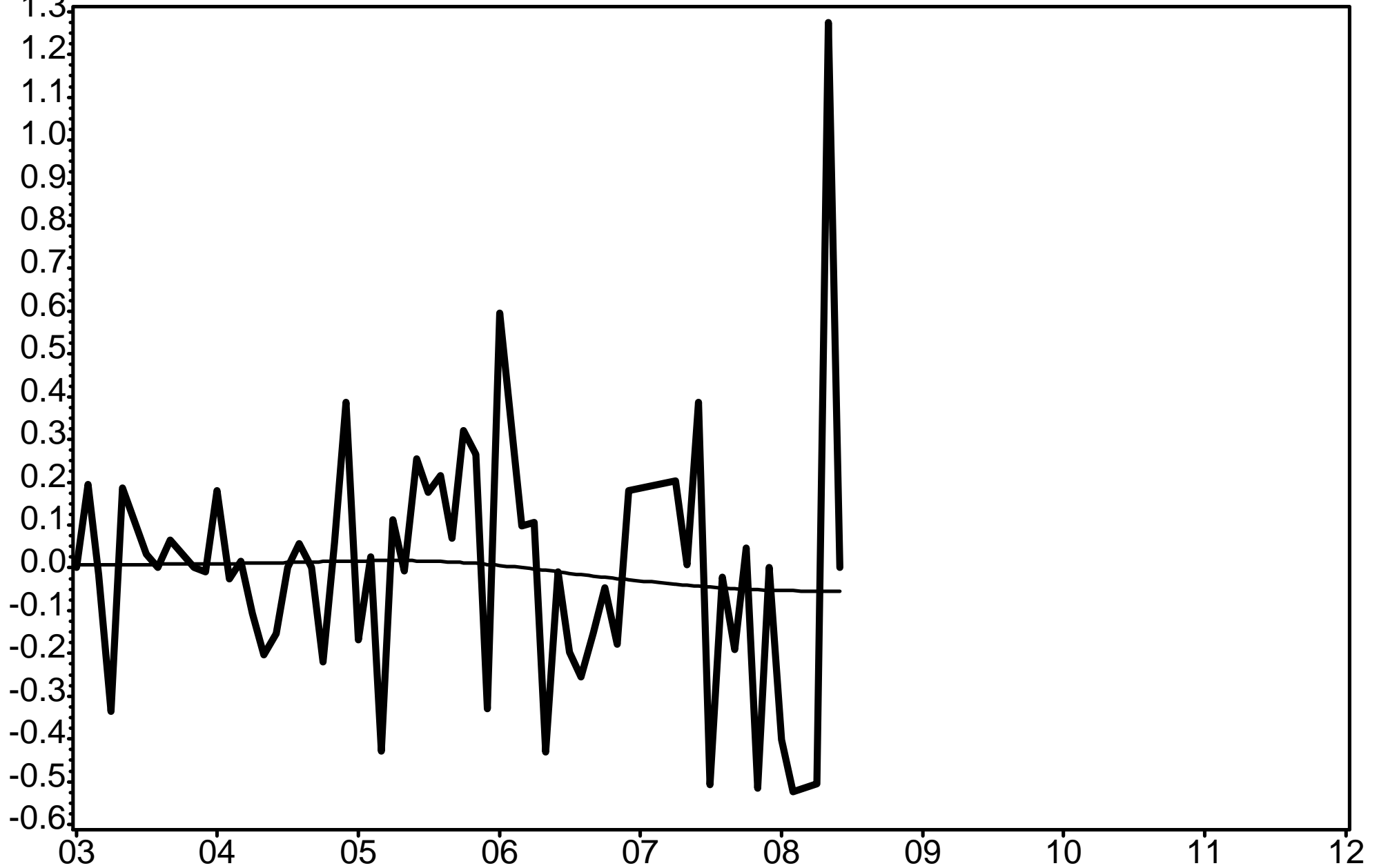
Lower Lemon Bay Trends Appendix - Display 952

Monthly Data Time Series

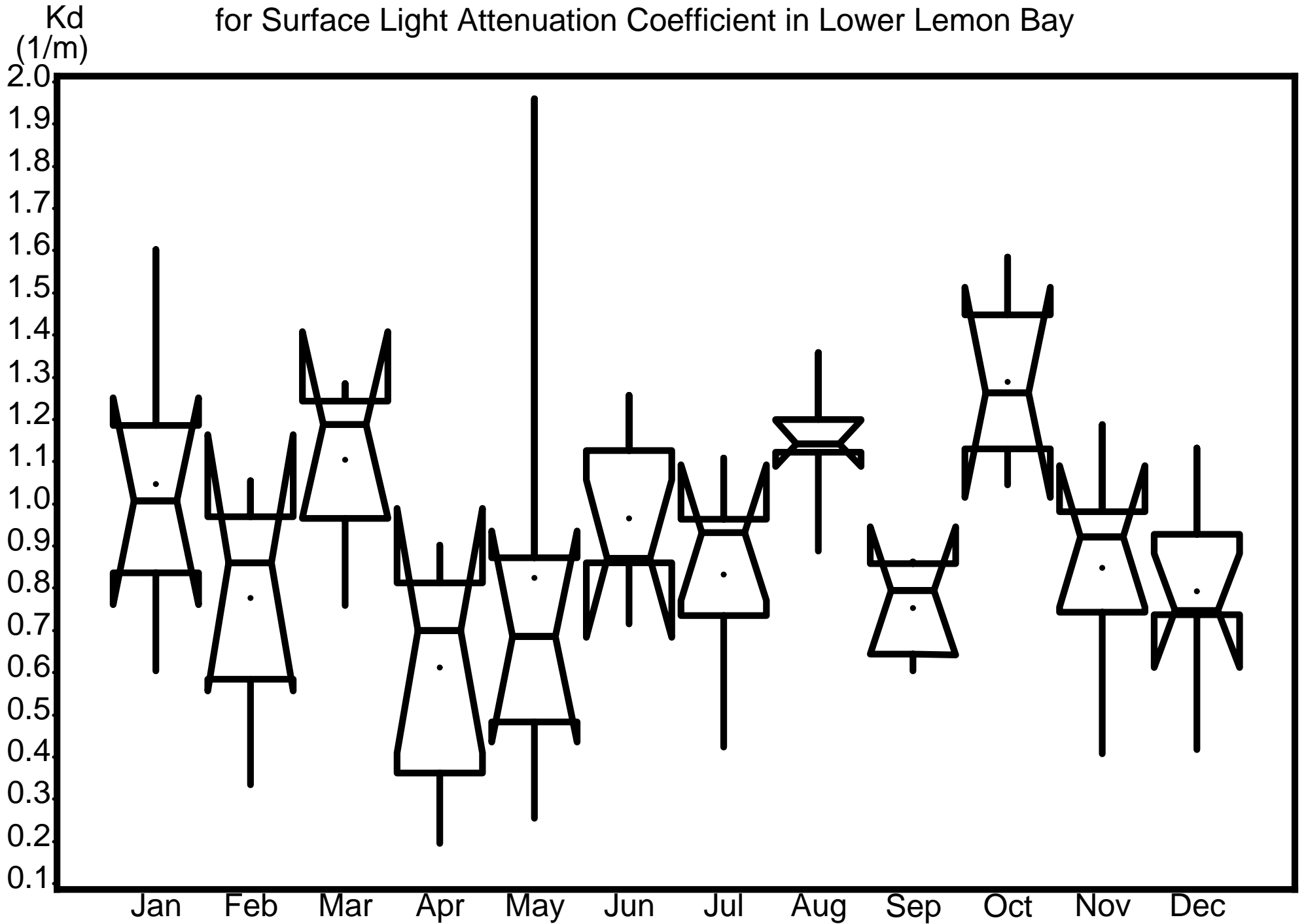
for Surface Light Attenuation Coefficient in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Lower Lemon Bay Trends Appendix - Display 953
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Lower Lemon Bay



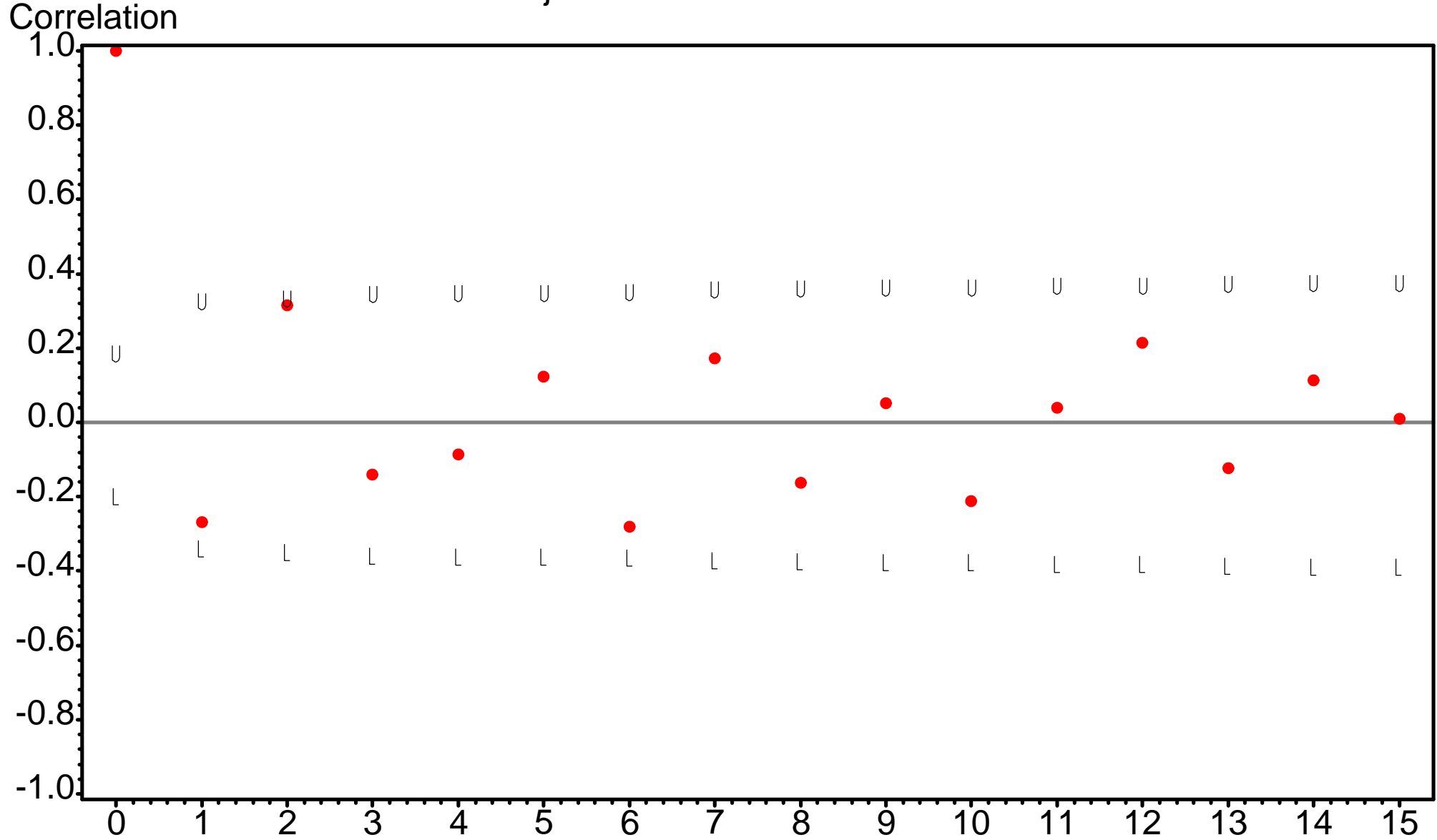
Lower Lemon Bay Trends Appendix - Display 954
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Lower Lemon Bay

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.268	0.167	0.333	-0.333
2	0.316	0.171	0.341	-0.341
3	-0.140	0.176	0.352	-0.352
4	-0.086	0.177	0.354	-0.354
5	0.124	0.177	0.355	-0.355
6	-0.280	0.178	0.356	-0.356
7	0.173	0.182	0.364	-0.364
8	-0.162	0.184	0.367	-0.367
9	0.052	0.185	0.370	-0.370
10	-0.211	0.185	0.370	-0.370
11	0.040	0.187	0.375	-0.375
12	0.215	0.187	0.375	-0.375
13	-0.122	0.190	0.379	-0.379
14	0.114	0.190	0.381	-0.381
15	0.011	0.191	0.382	-0.382

Lower Lemon Bay Trends Appendix - Display 955

Correlogram for Surface Light Attenuation Coefficient in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 956
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Lower Lemon Bay
Unadjusted for Seasonal Medians

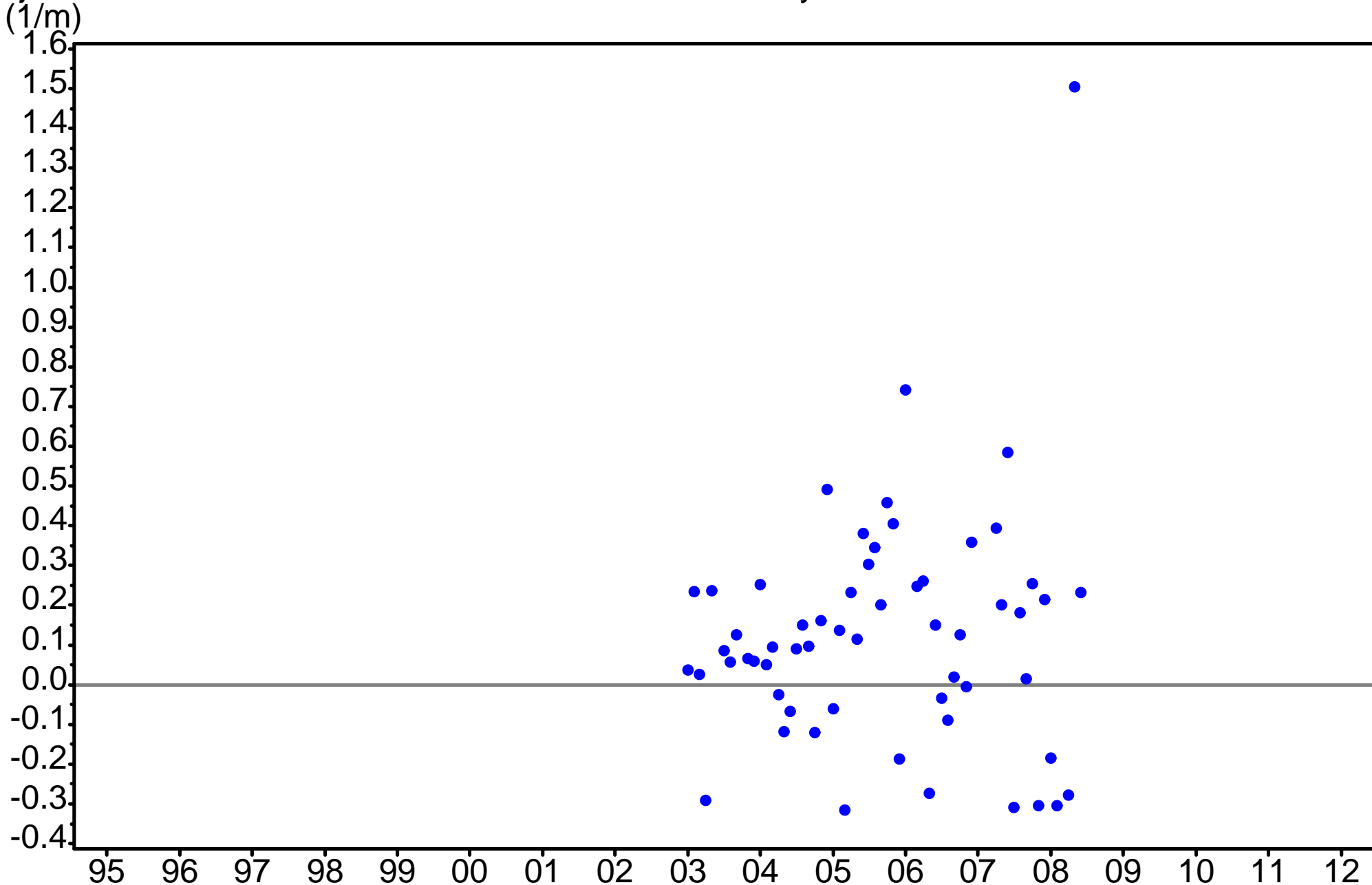
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.11	0.219	0.219	-0.035

Lower Lemon Bay Trends Appendix - Display 957
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.084746	0.52383	0.46637	-0.0362

Lower Lemon Bay Trends Appendix - Display 958

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Lower Lemon Bay



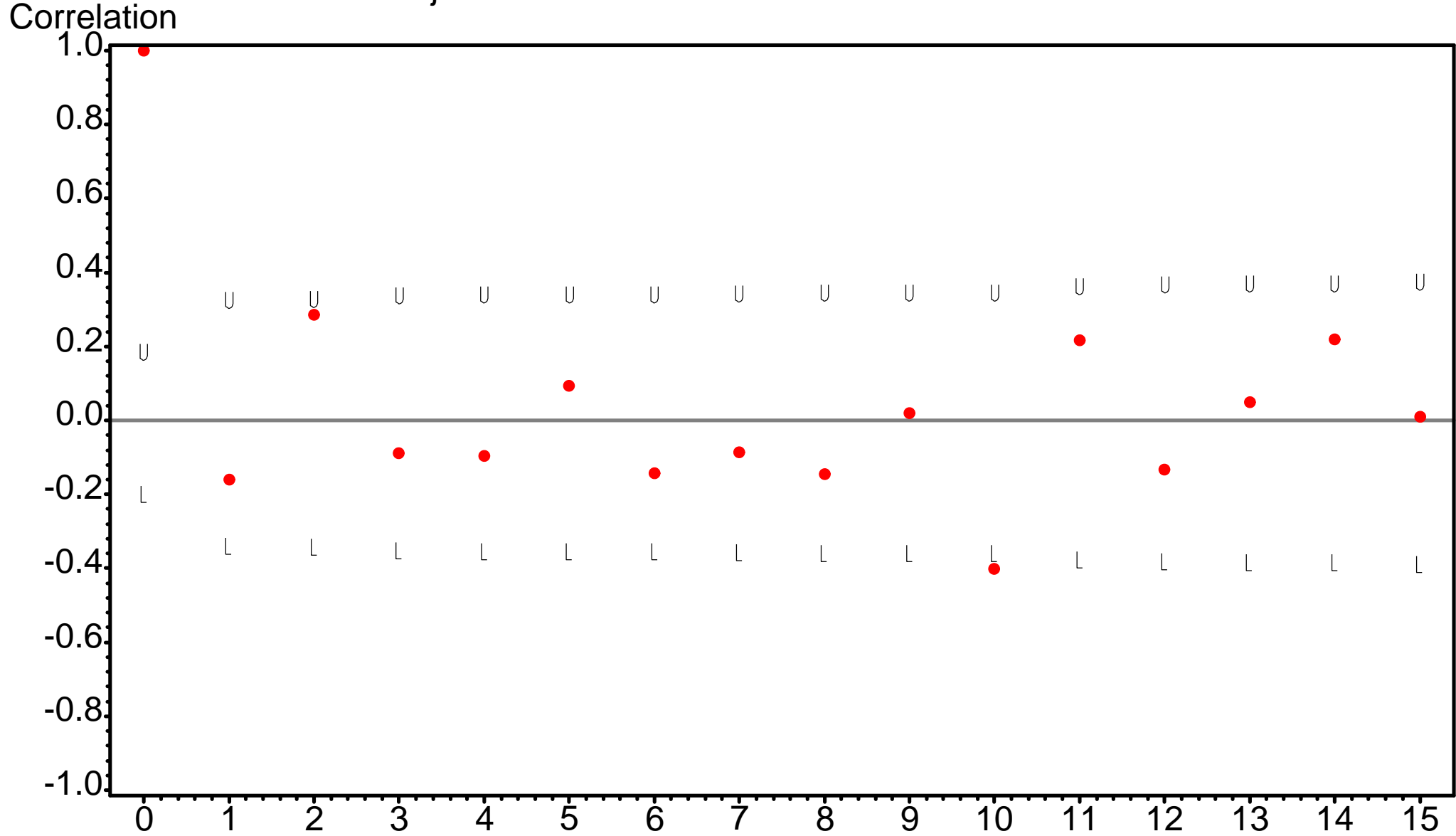
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 959
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.159	0.167	0.333	-0.333
2	0.285	0.168	0.336	-0.336
3	-0.088	0.172	0.345	-0.345
4	-0.095	0.173	0.346	-0.346
5	0.094	0.173	0.347	-0.347
6	-0.142	0.174	0.348	-0.348
7	-0.085	0.175	0.350	-0.350
8	-0.144	0.175	0.351	-0.351
9	0.019	0.176	0.353	-0.353
10	-0.401	0.176	0.353	-0.353
11	0.216	0.185	0.369	-0.369
12	-0.134	0.187	0.374	-0.374
13	0.049	0.188	0.376	-0.376
14	0.220	0.188	0.376	-0.376
15	0.011	0.190	0.381	-0.381

Lower Lemon Bay Trends Appendix - Display 960

Correlogram for Surface Light Attenuation Coefficient in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

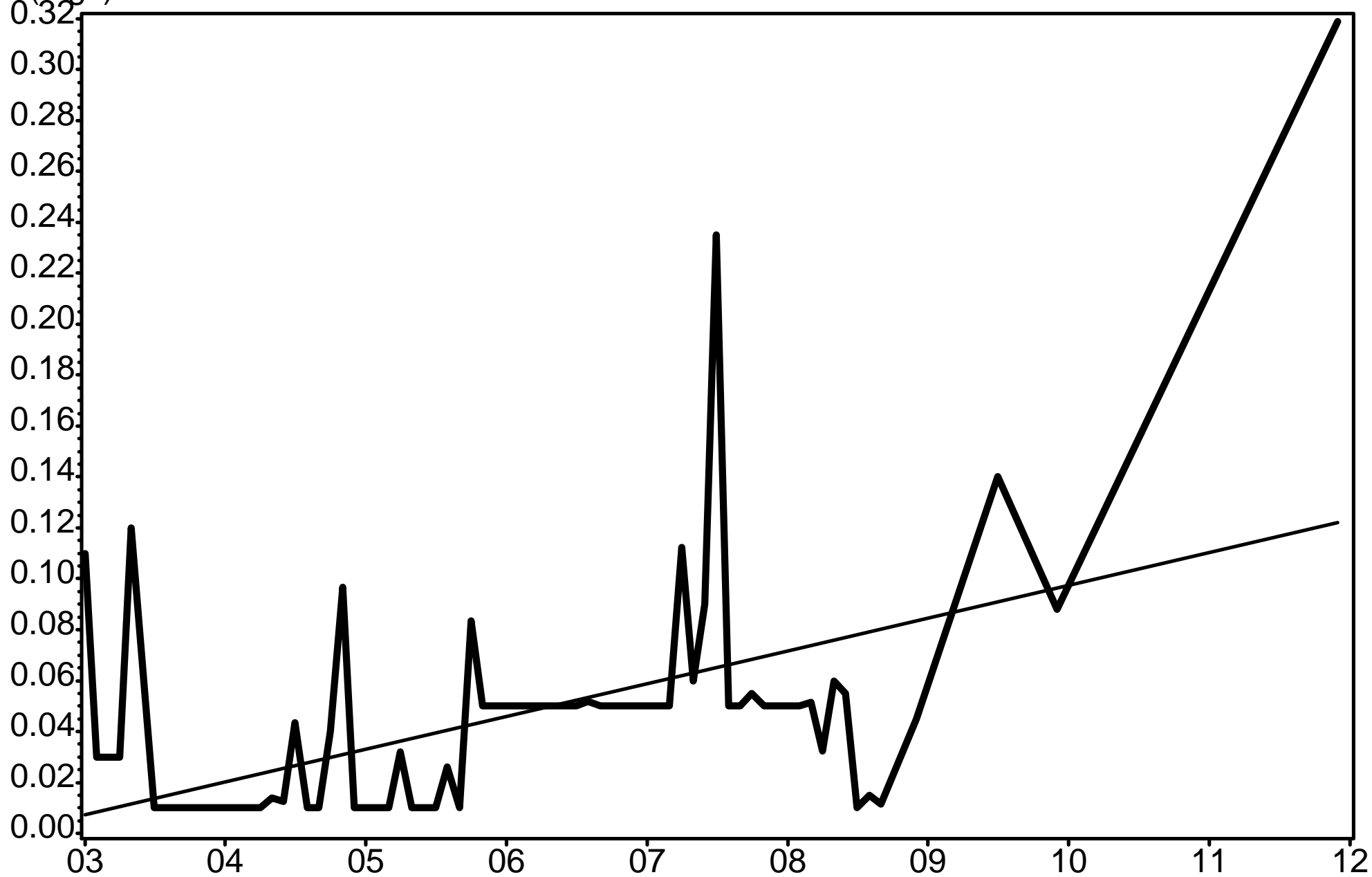
Lower Lemon Bay Trends Appendix - Display 961

Monthly Data Time Series

for Surface Ammonia as N Total in Lower Lemon Bay

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



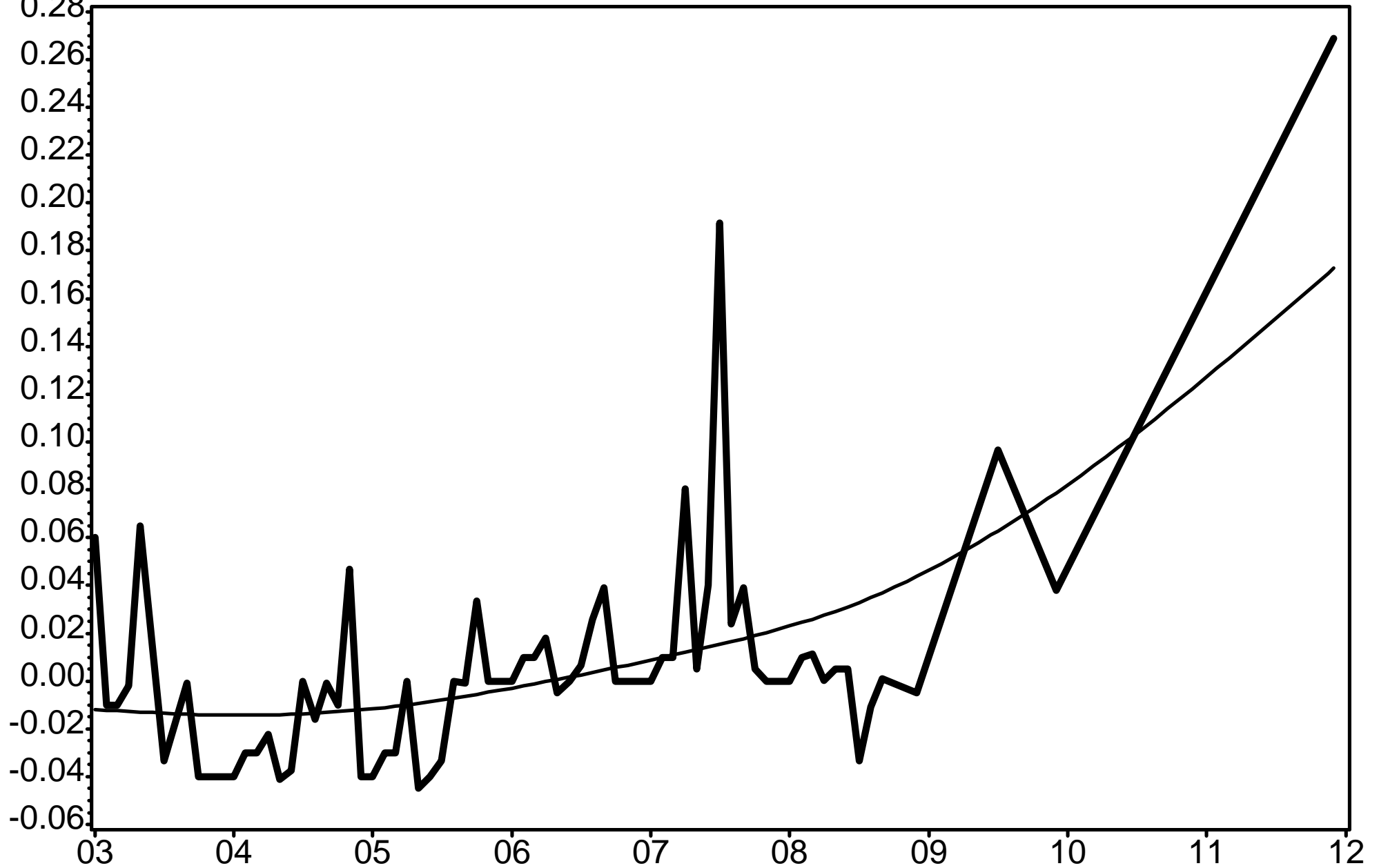
Lower Lemon Bay Trends Appendix - Display 962

Monthly Data Time Series

for Surface Ammonia as N Total in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

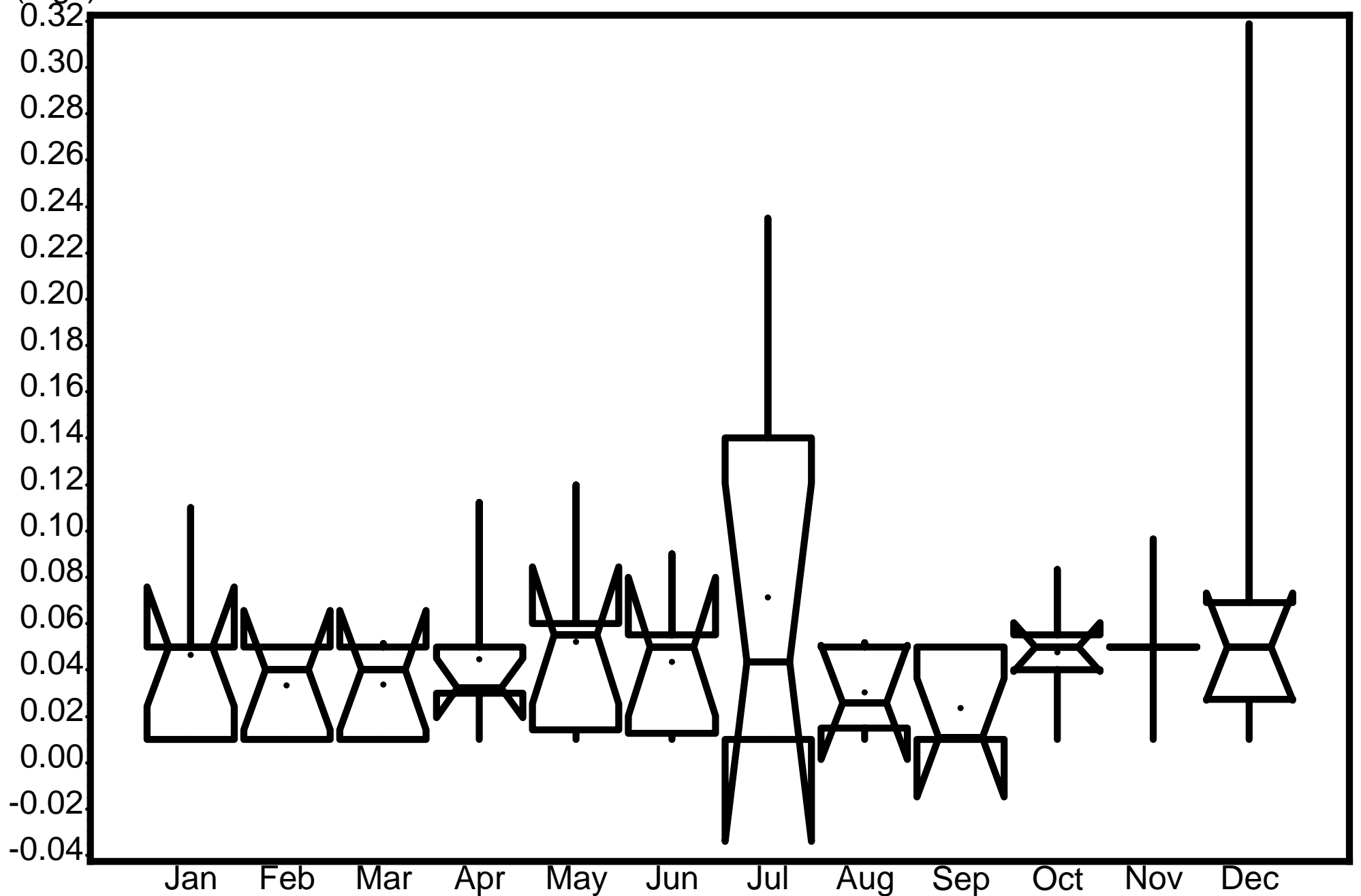


Lower Lemon Bay Trends Appendix - Display 963

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Lower Lemon Bay

NH3_mgl
(mg/l)



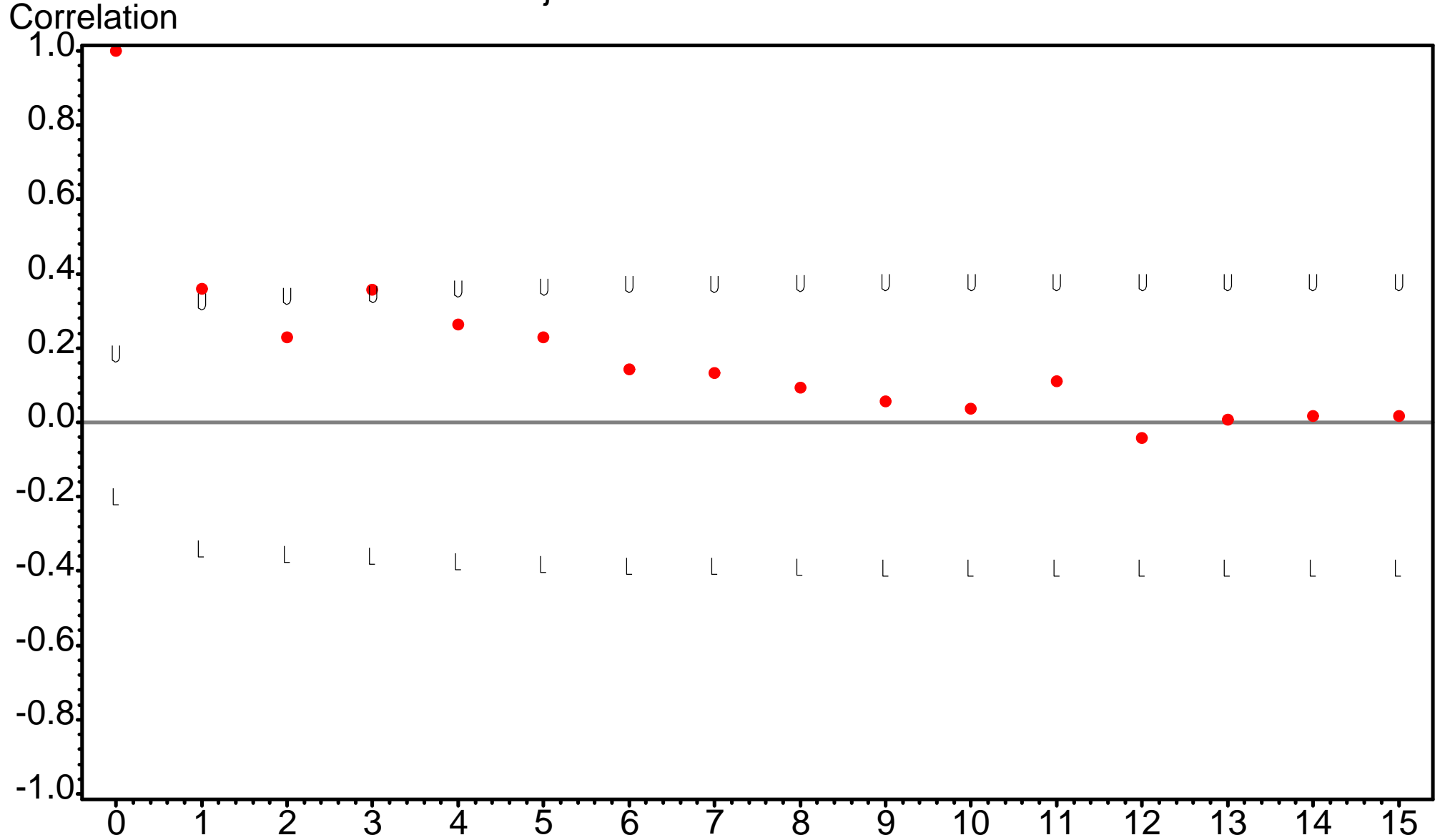
Lower Lemon Bay Trends Appendix - Display 964
Autocorrelation Statistics for Surface Ammonia as N Total in Lower Lemon Bay

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.359	0.167	0.333	-0.333
2	0.229	0.174	0.347	-0.347
3	0.357	0.176	0.353	-0.353
4	0.263	0.183	0.366	-0.366
5	0.230	0.186	0.373	-0.373
6	0.142	0.189	0.378	-0.378
7	0.133	0.190	0.380	-0.380
8	0.093	0.191	0.382	-0.382
9	0.057	0.191	0.383	-0.383
10	0.036	0.192	0.383	-0.383
11	0.111	0.192	0.383	-0.383
12	-0.042	0.192	0.384	-0.384
13	0.007	0.192	0.385	-0.385
14	0.017	0.192	0.385	-0.385
15	0.018	0.192	0.385	-0.385

Lower Lemon Bay Trends Appendix - Display 965

Correlogram for Surface Ammonia as N Total in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 966
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.367	0	0	.006

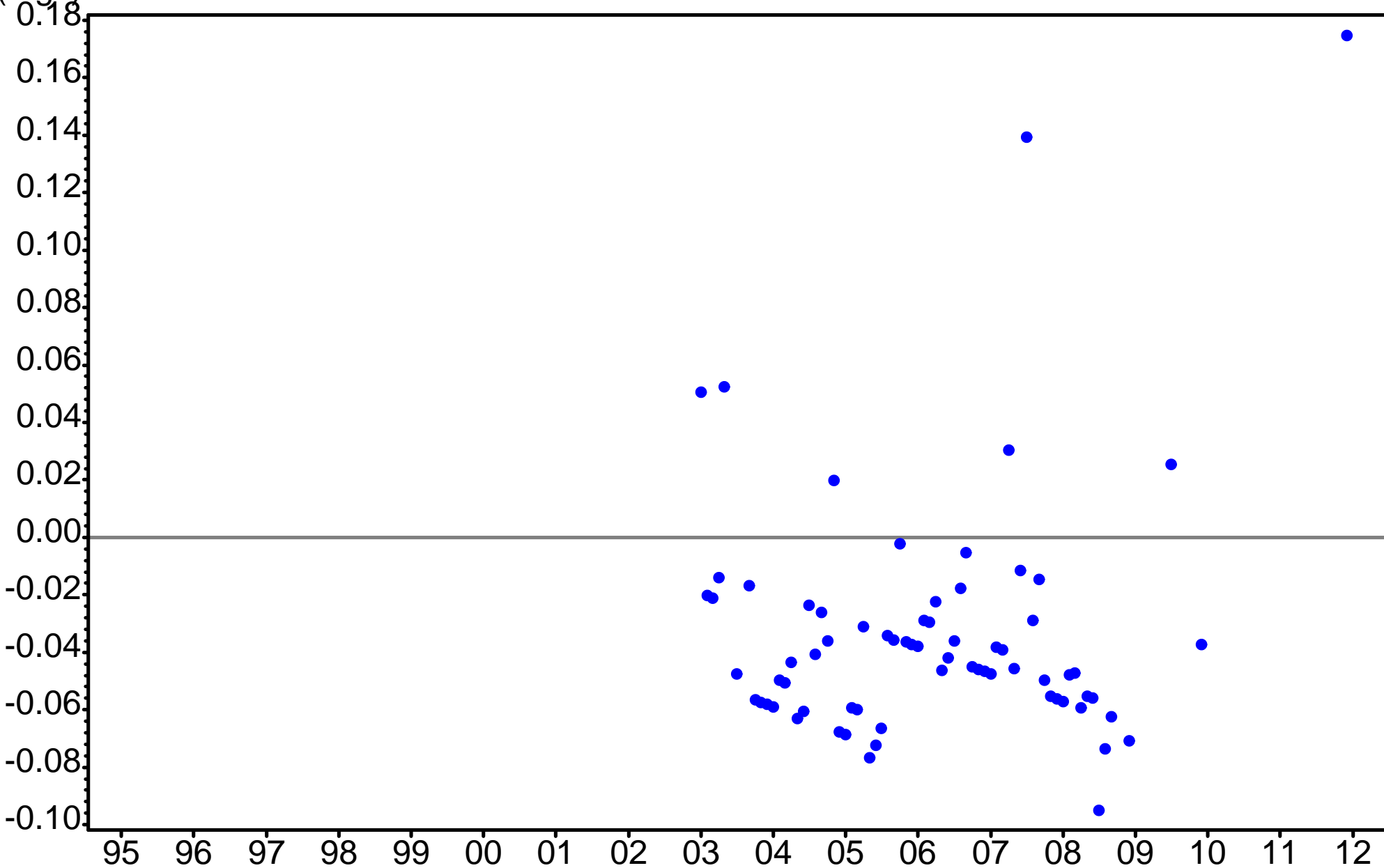
Lower Lemon Bay Trends Appendix - Display 967
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.41899	.000031948	0.042163	.0095

Lower Lemon Bay Trends Appendix - Display 968

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(mg/l)



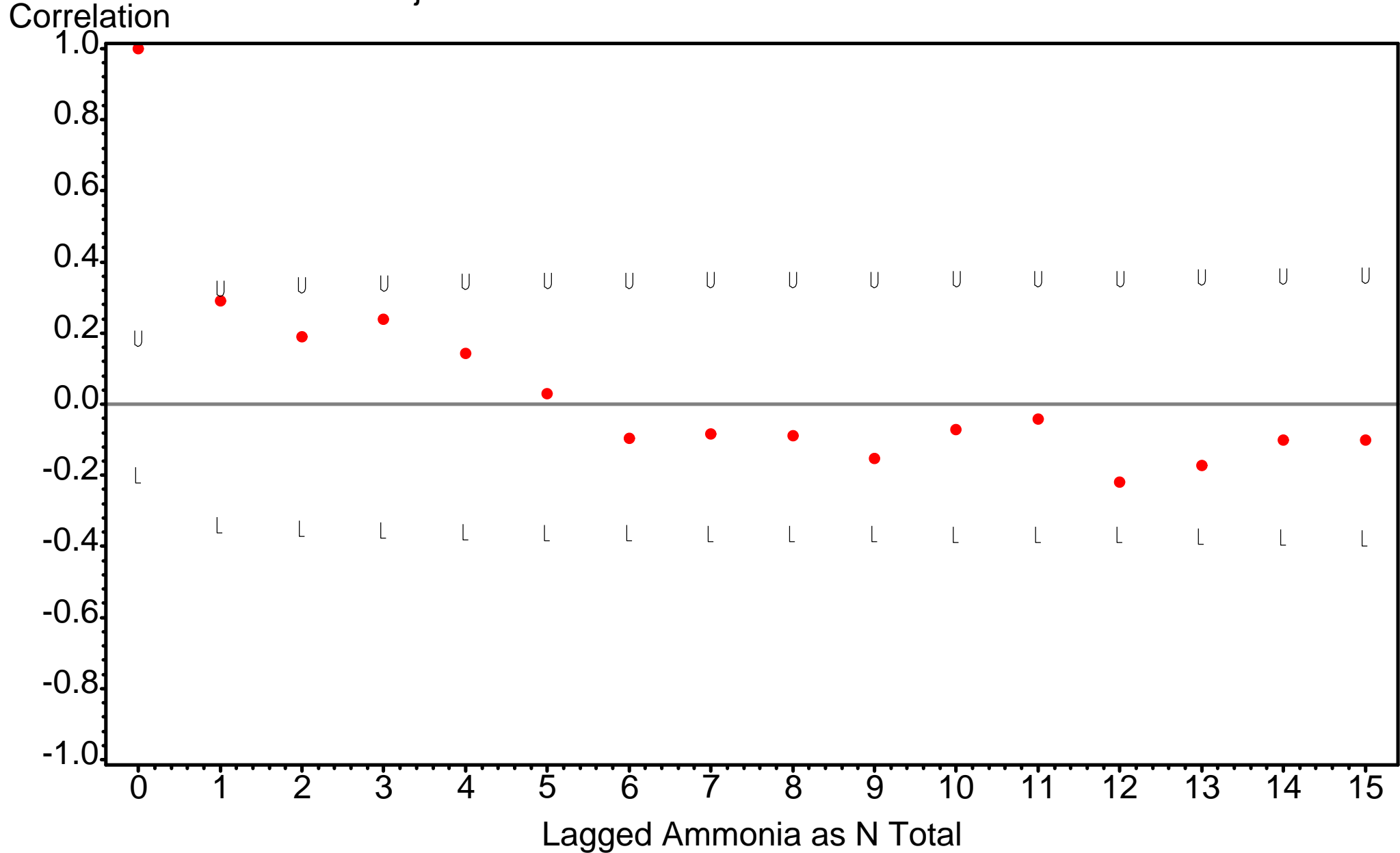
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 969
Autocorrelation Statistics for Surface Ammonia as N Total in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.290	0.167	0.333	-0.333
2	0.190	0.171	0.343	-0.343
3	0.240	0.173	0.346	-0.346
4	0.143	0.176	0.353	-0.353
5	0.029	0.177	0.355	-0.355
6	-0.096	0.177	0.355	-0.355
7	-0.084	0.178	0.356	-0.356
8	-0.088	0.178	0.356	-0.356
9	-0.152	0.179	0.357	-0.357
10	-0.071	0.180	0.360	-0.360
11	-0.041	0.180	0.360	-0.360
12	-0.219	0.180	0.360	-0.360
13	-0.172	0.183	0.365	-0.365
14	-0.100	0.184	0.368	-0.368
15	-0.102	0.185	0.369	-0.369

Lower Lemon Bay Trends Appendix - Display 970

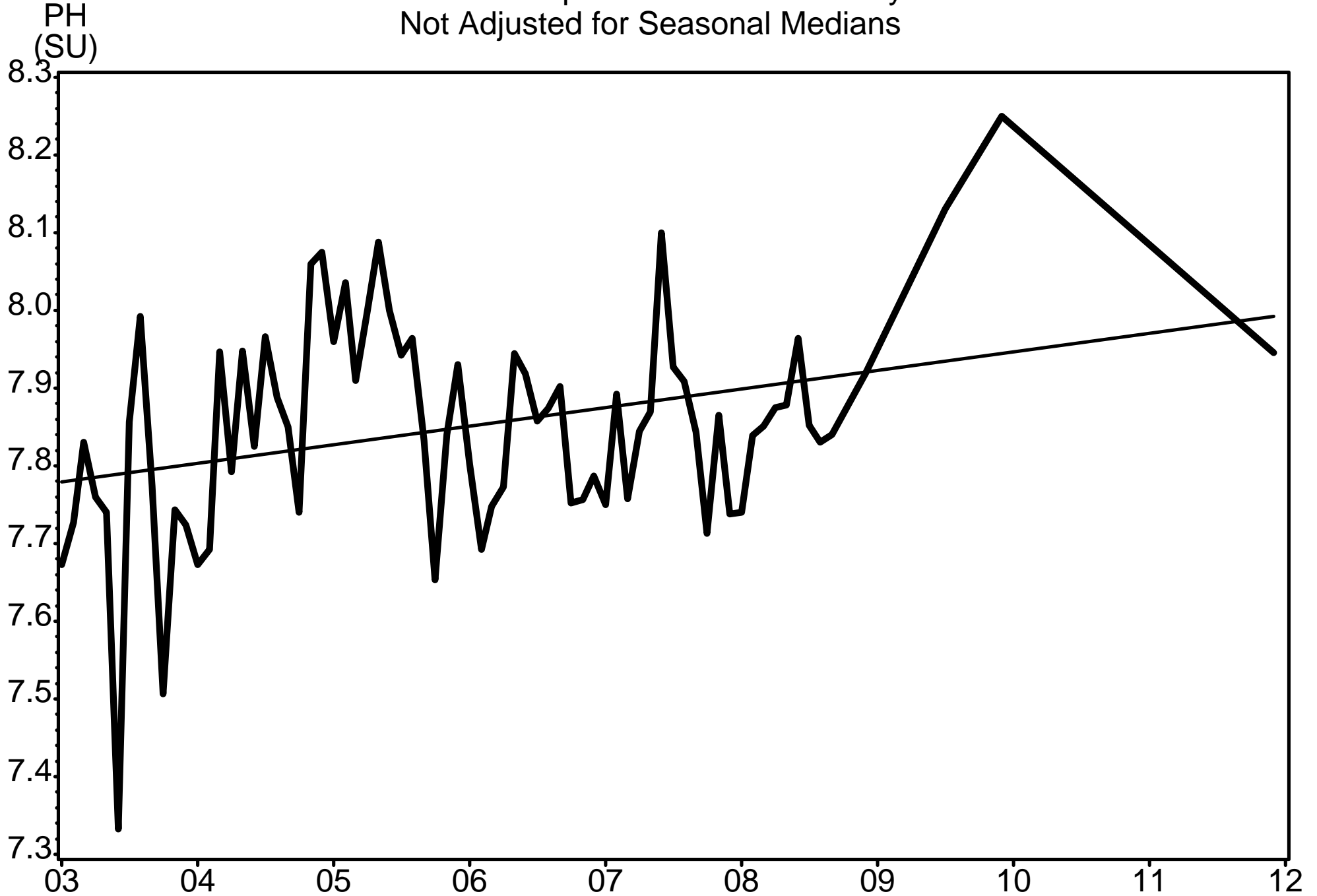
Correlogram for Surface Ammonia as N Total in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 971

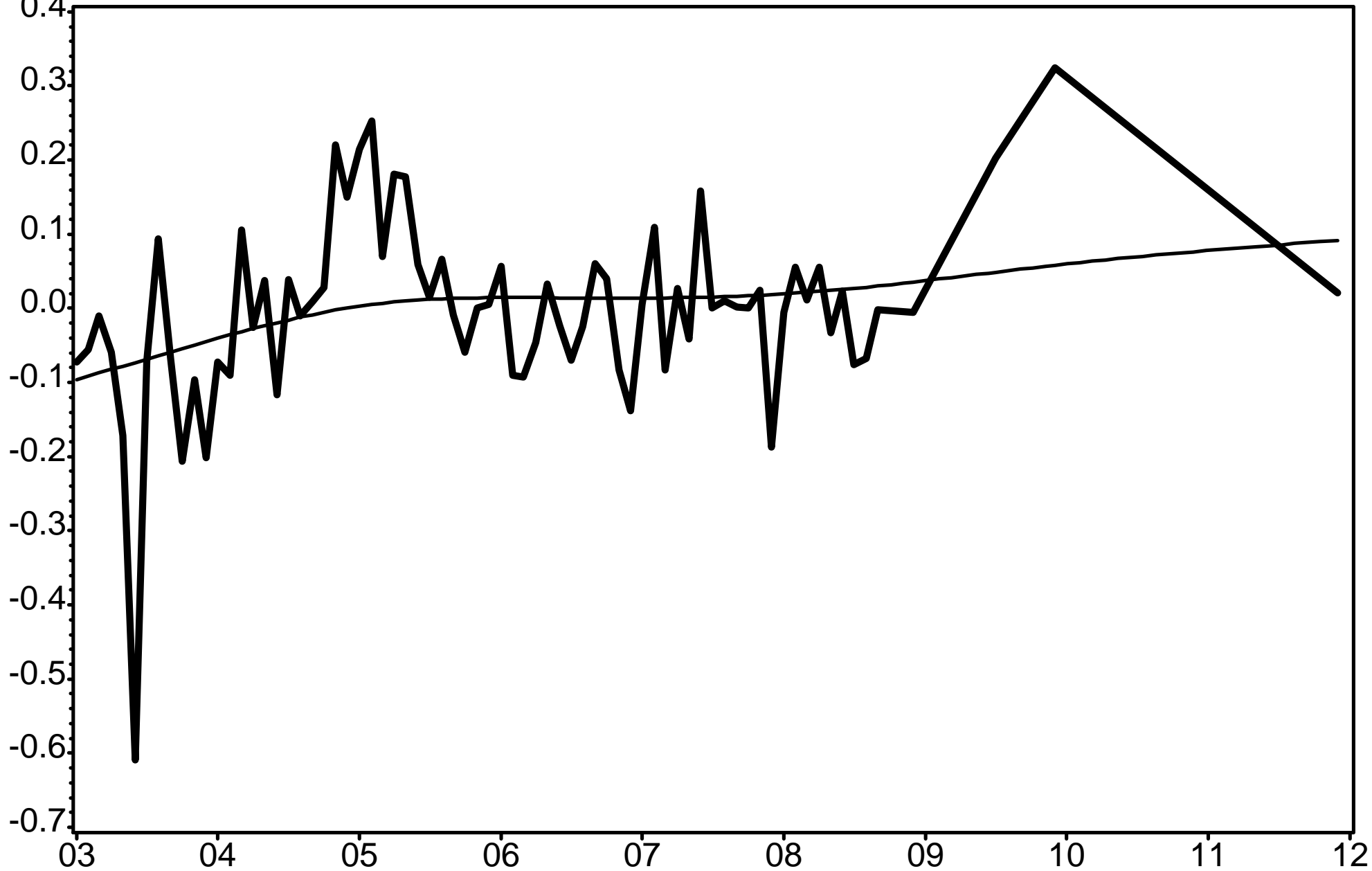
Monthly Data Time Series
for Surface pH in Lower Lemon Bay
Not Adjusted for Seasonal Medians



Lower Lemon Bay Trends Appendix - Display 972

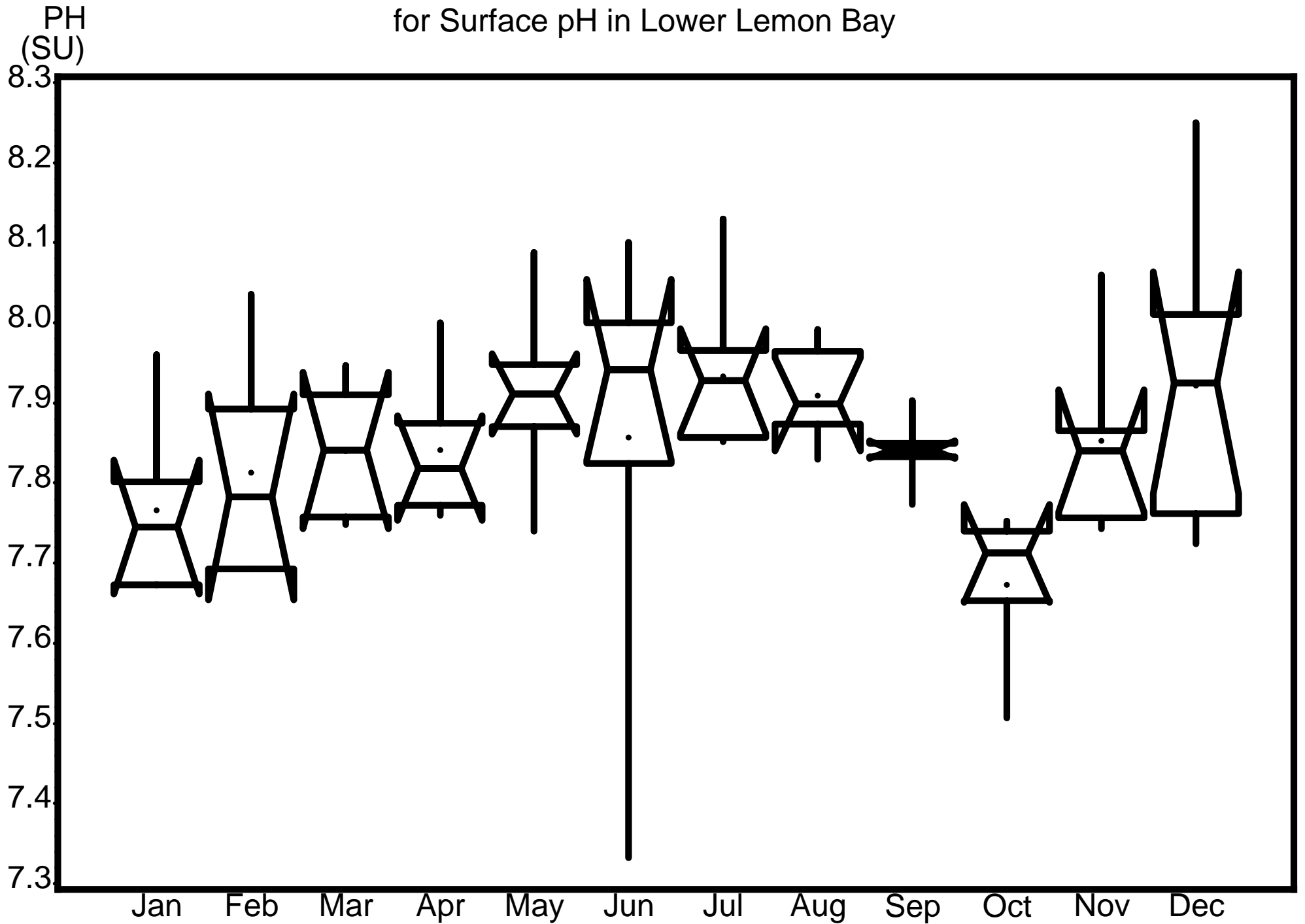
Monthly Data Time Series
for Surface pH in Lower Lemon Bay
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Lower Lemon Bay Trends Appendix - Display 973

Seasonal Univariate Statistics for Surface pH in Lower Lemon Bay

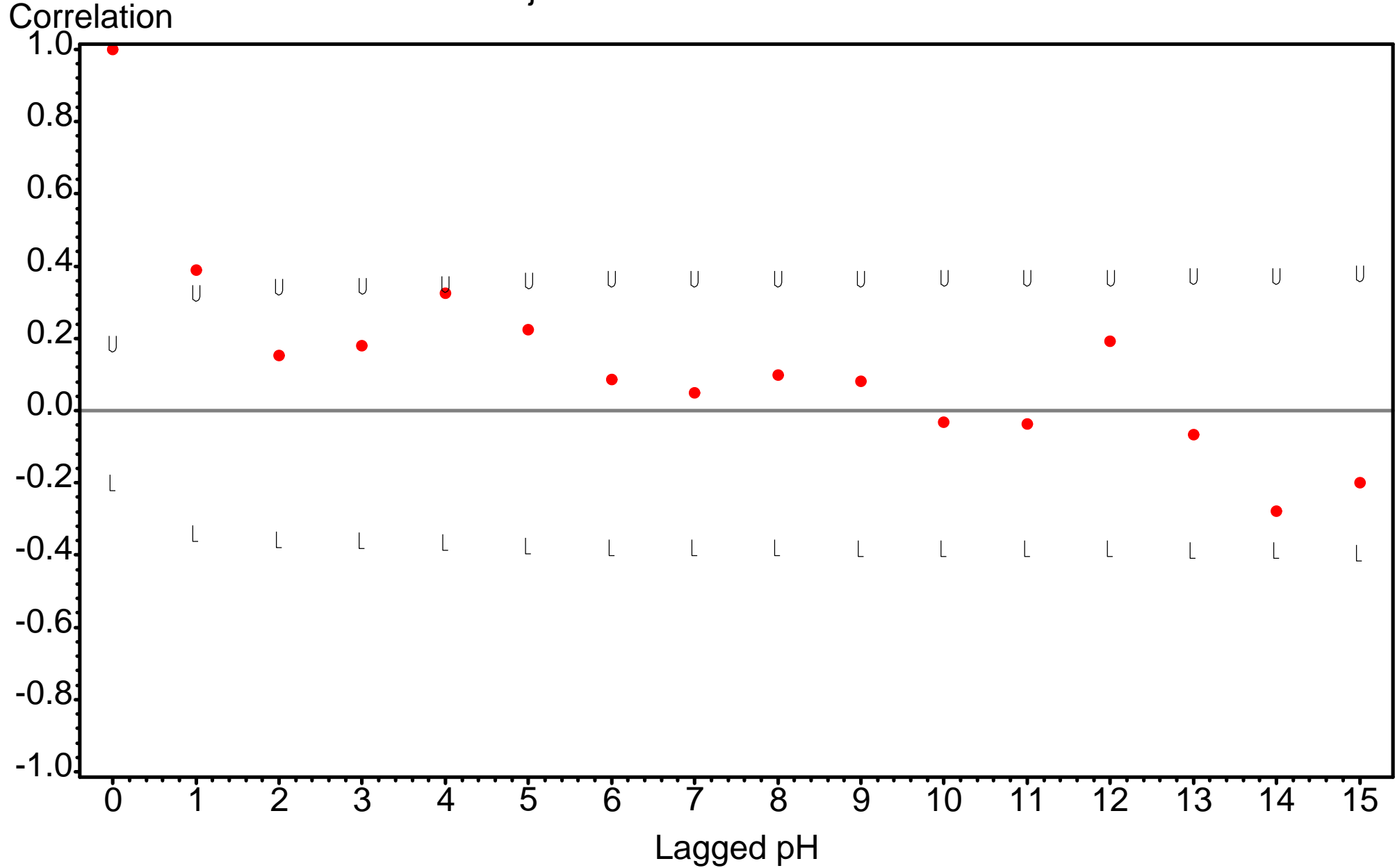


Lower Lemon Bay Trends Appendix - Display 974
Autocorrelation Statistics for Surface pH in Lower Lemon Bay

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.388	0.167	0.333	-0.333
2	0.153	0.175	0.350	-0.350
3	0.180	0.176	0.352	-0.352
4	0.326	0.178	0.356	-0.356
5	0.225	0.183	0.366	-0.366
6	0.085	0.186	0.372	-0.372
7	0.049	0.186	0.372	-0.372
8	0.098	0.186	0.372	-0.372
9	0.082	0.187	0.373	-0.373
10	-0.032	0.187	0.374	-0.374
11	-0.037	0.187	0.374	-0.374
12	0.193	0.187	0.374	-0.374
13	-0.067	0.189	0.378	-0.378
14	-0.278	0.189	0.378	-0.378
15	-0.200	0.193	0.386	-0.386

Lower Lemon Bay Trends Appendix - Display 975

Correlogram for Surface pH in Lower Lemon Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 976
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.159	0.048	0.048	0.016

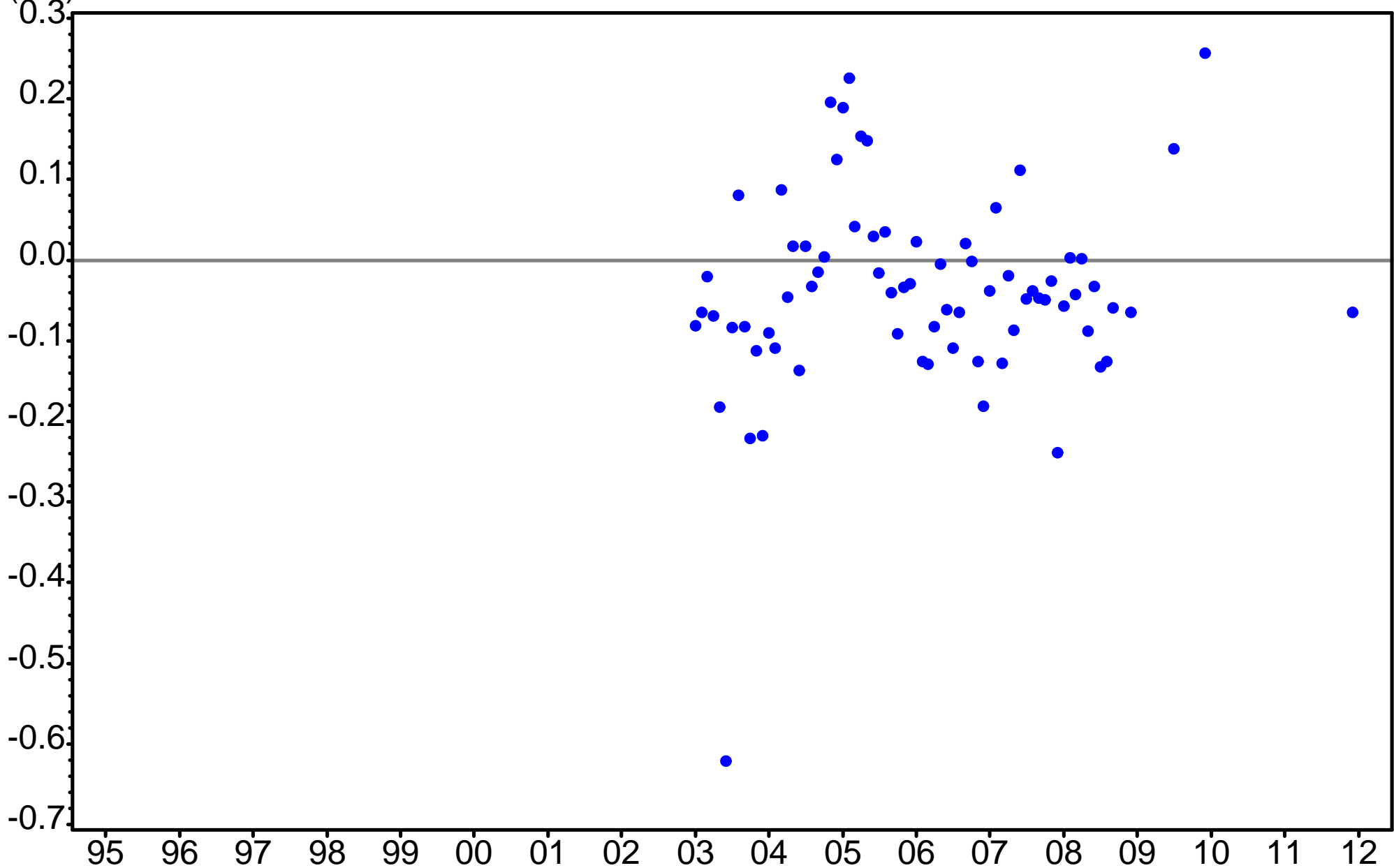
Lower Lemon Bay Trends Appendix - Display 977
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.13757	0.19290	0.46255	.00866667

Lower Lemon Bay Trends Appendix - Display 978

Time Series Plot of Surface pH Data Adjusted for Season and Detrended Lower Lemon Bay

Adjusted
(SU)



Zero Reference Line Shown

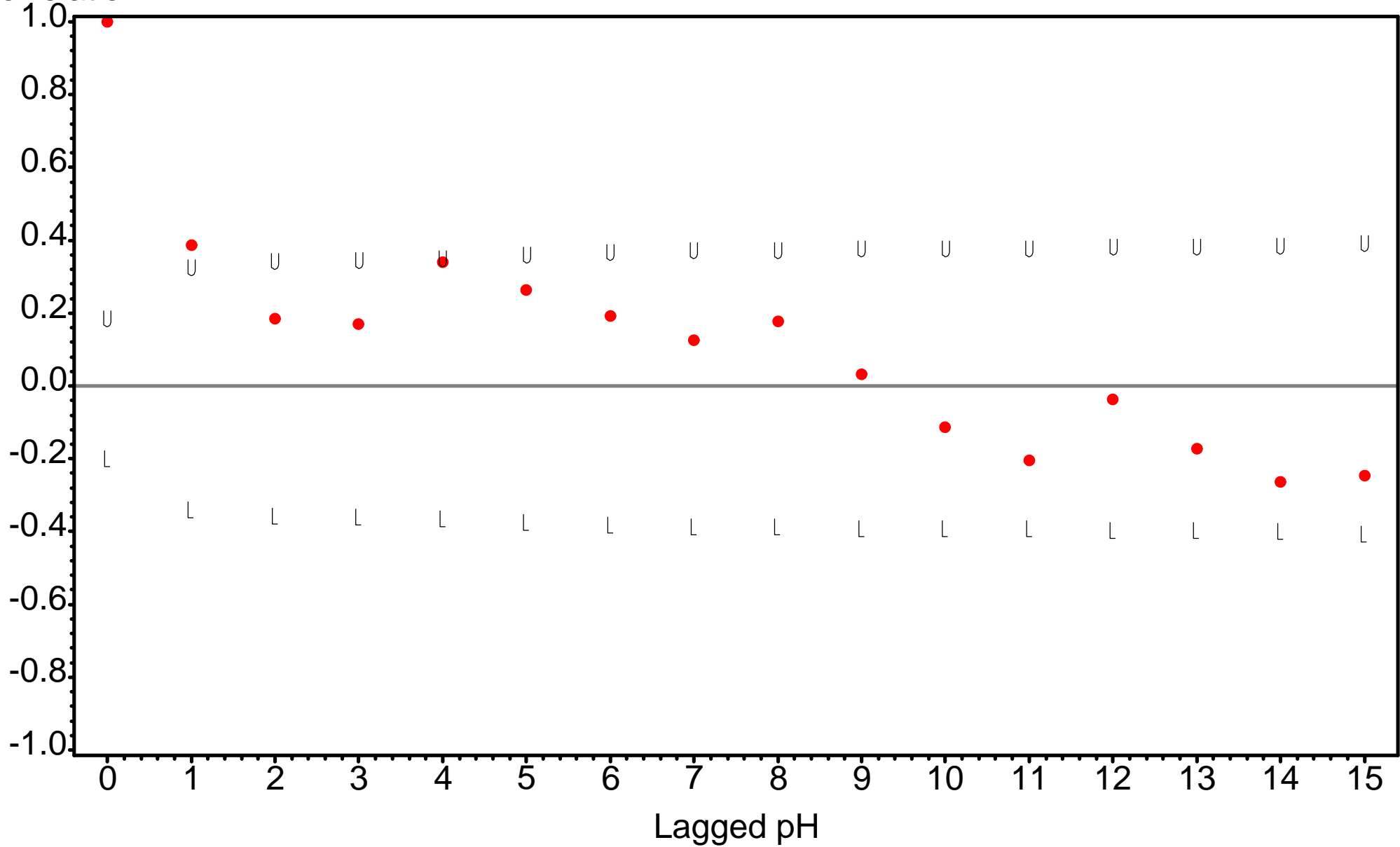
Lower Lemon Bay Trends Appendix - Display 979
Autocorrelation Statistics for Surface pH in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.386	0.167	0.333	-0.333
2	0.185	0.175	0.349	-0.349
3	0.171	0.177	0.353	-0.353
4	0.340	0.178	0.356	-0.356
5	0.264	0.184	0.368	-0.368
6	0.193	0.187	0.375	-0.375
7	0.126	0.189	0.379	-0.379
8	0.178	0.190	0.380	-0.380
9	0.032	0.192	0.383	-0.383
10	-0.113	0.192	0.383	-0.383
11	-0.205	0.192	0.385	-0.385
12	-0.037	0.194	0.389	-0.389
13	-0.173	0.194	0.389	-0.389
14	-0.264	0.196	0.392	-0.392
15	-0.245	0.199	0.398	-0.398

Lower Lemon Bay Trends Appendix - Display 980

Correlogram for Surface pH in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation

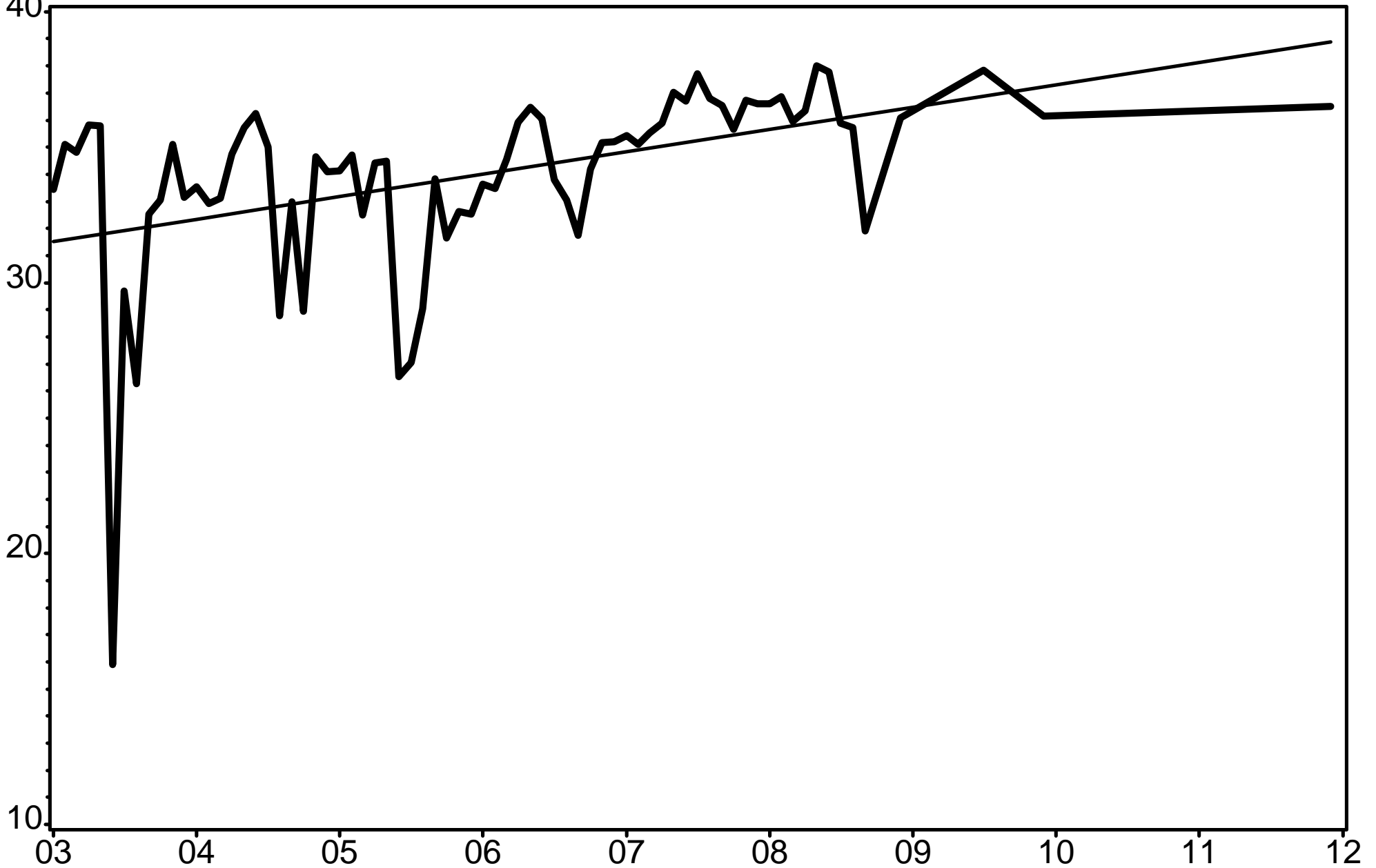


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 981

Monthly Data Time Series
for Surface Salinity in Lower Lemon Bay
Not Adjusted for Seasonal Medians

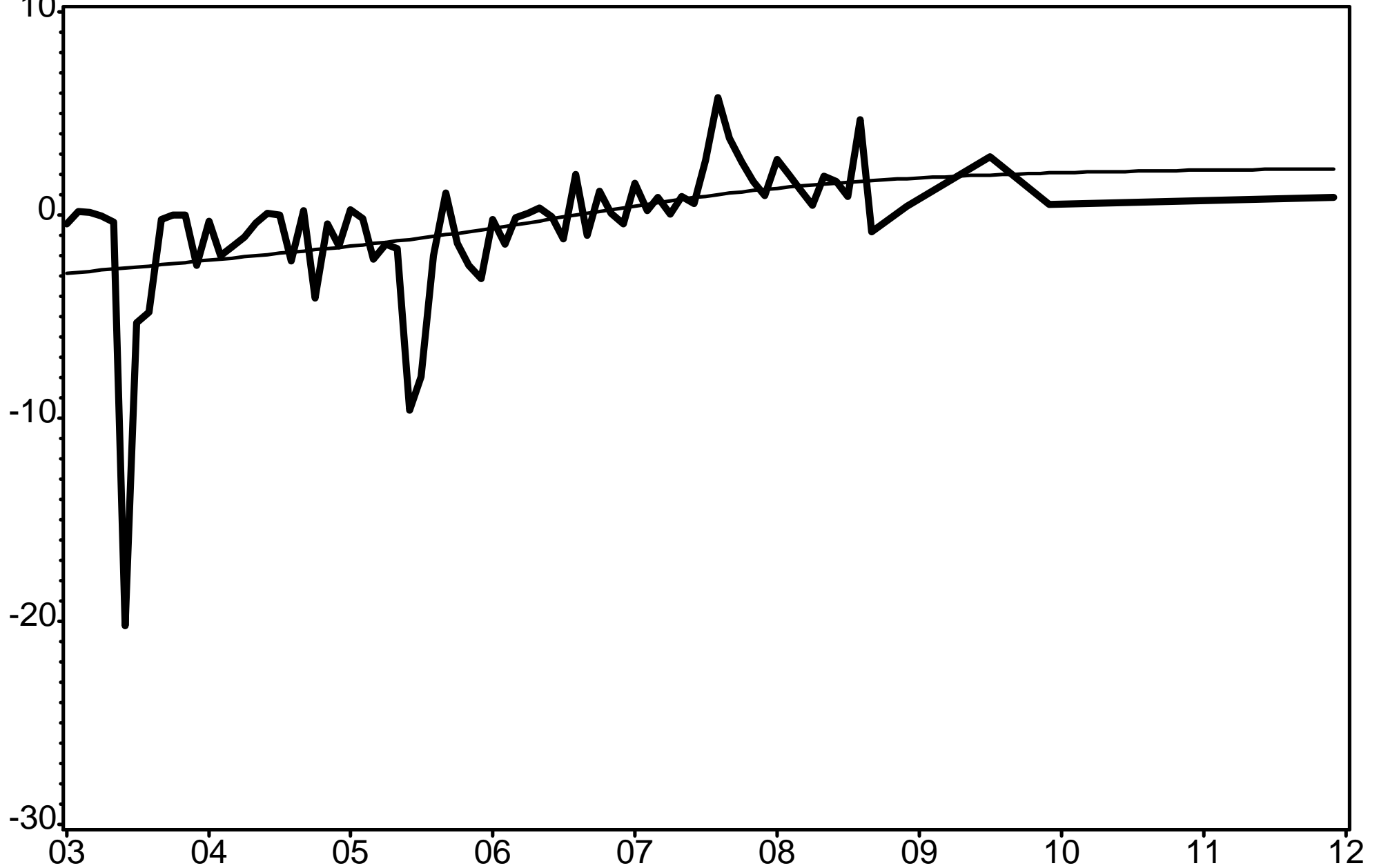
Salinity
(ppt)



Lower Lemon Bay Trends Appendix - Display 982

Monthly Data Time Series
for Surface Salinity in Lower Lemon Bay
Adjusted for Seasonal Medians

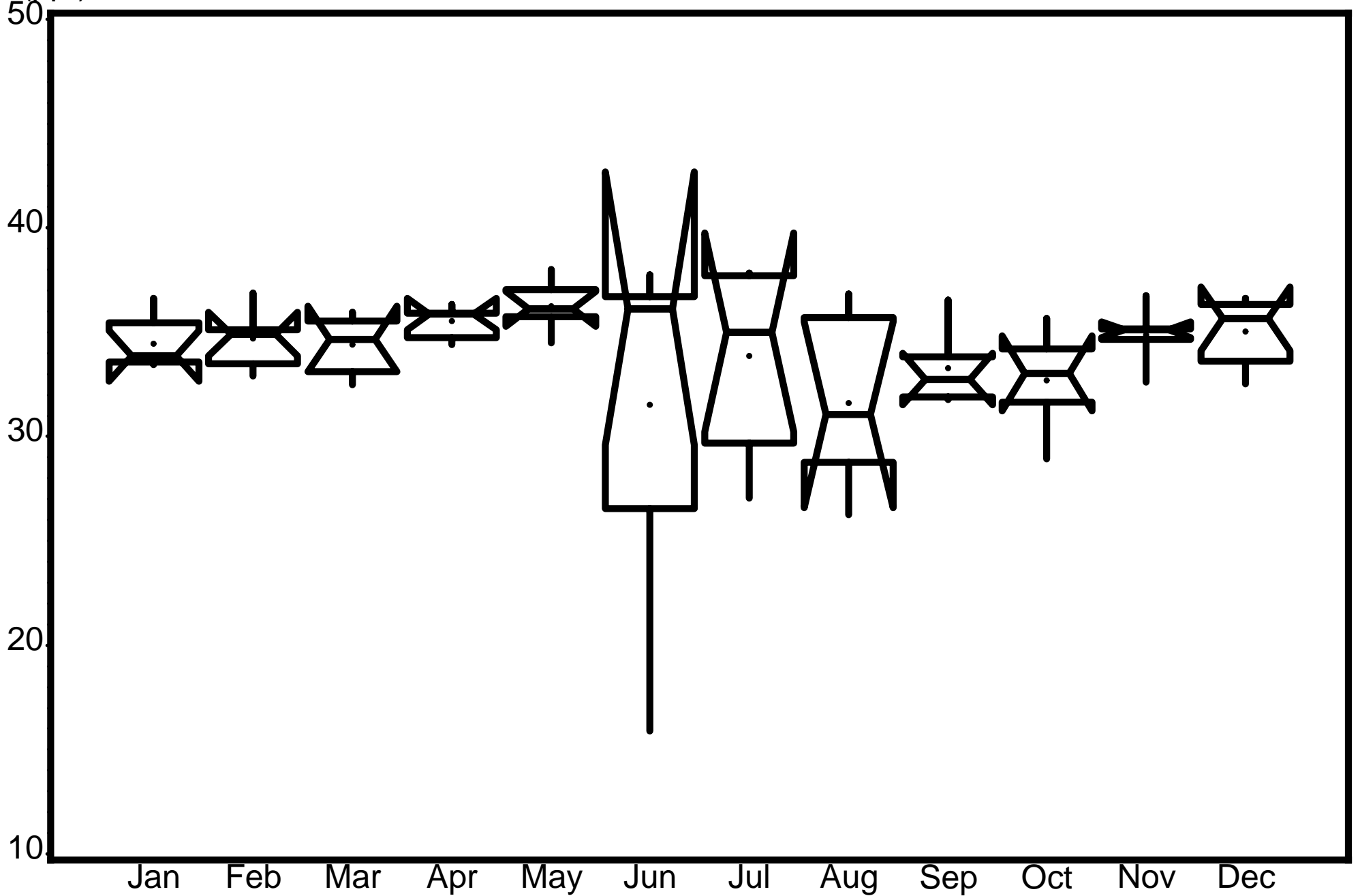
Adjusted
Salinity
(ppt)



Lower Lemon Bay Trends Appendix - Display 983

Seasonal Univariate Statistics for Surface Salinity in Lower Lemon Bay

Salinity
(ppt)



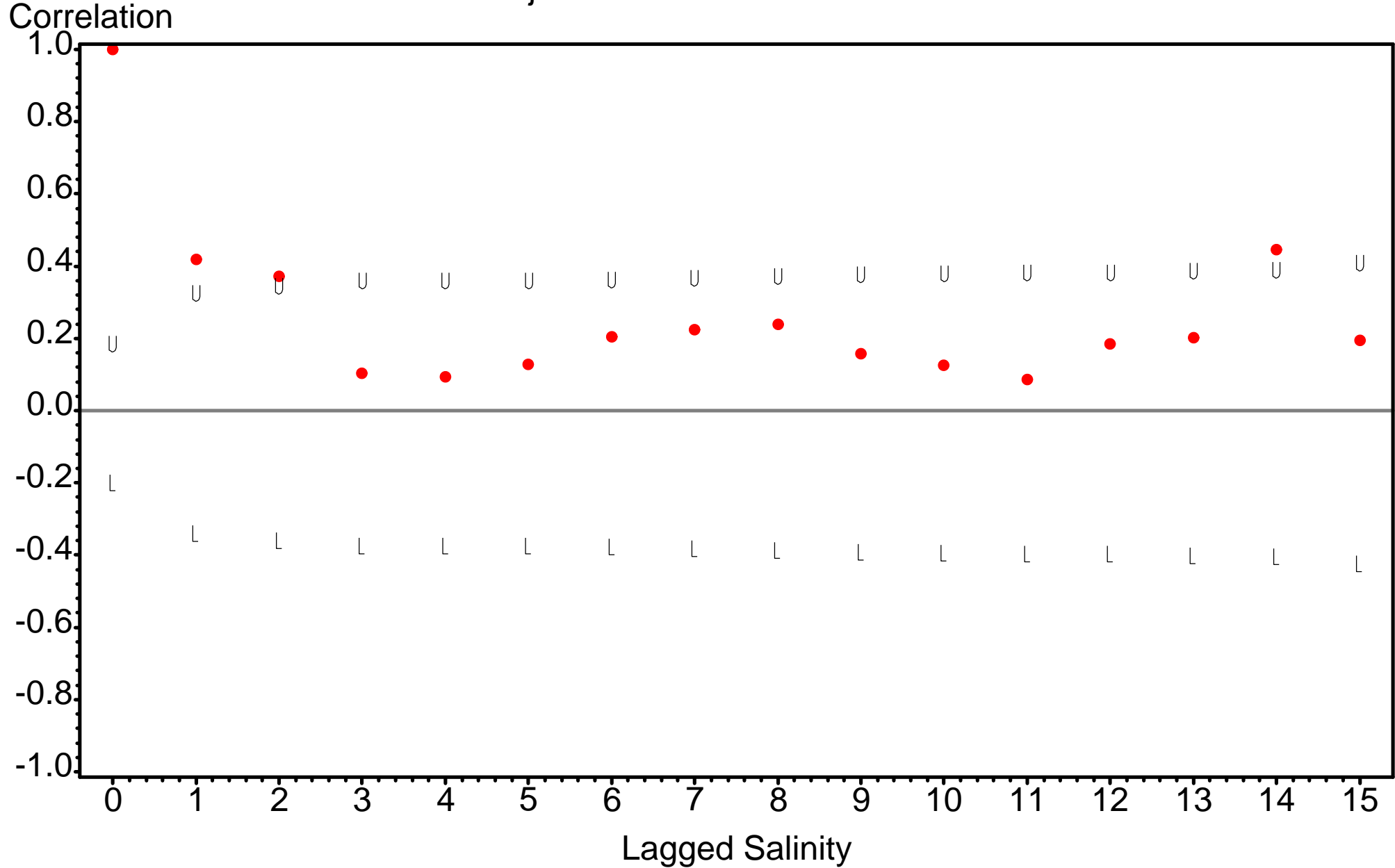
Lower Lemon Bay Trends Appendix - Display 984
Autocorrelation Statistics for Surface Salinity in Lower Lemon Bay

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.418	0.167	0.333	-0.333
2	0.372	0.176	0.352	-0.352
3	0.104	0.183	0.367	-0.367
4	0.093	0.184	0.368	-0.368
5	0.128	0.184	0.368	-0.368
6	0.204	0.185	0.370	-0.370
7	0.225	0.187	0.374	-0.374
8	0.240	0.190	0.379	-0.379
9	0.158	0.192	0.385	-0.385
10	0.126	0.194	0.387	-0.387
11	0.085	0.194	0.389	-0.389
12	0.185	0.195	0.389	-0.389
13	0.202	0.196	0.393	-0.393
14	0.445	0.198	0.396	-0.396
15	0.195	0.207	0.415	-0.415

Lower Lemon Bay Trends Appendix - Display 985

Correlogram for Surface Salinity in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 986
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.425	0	0	0.655

Lower Lemon Bay Trends Appendix - Display 987
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.57672	0	0.023373	0.635

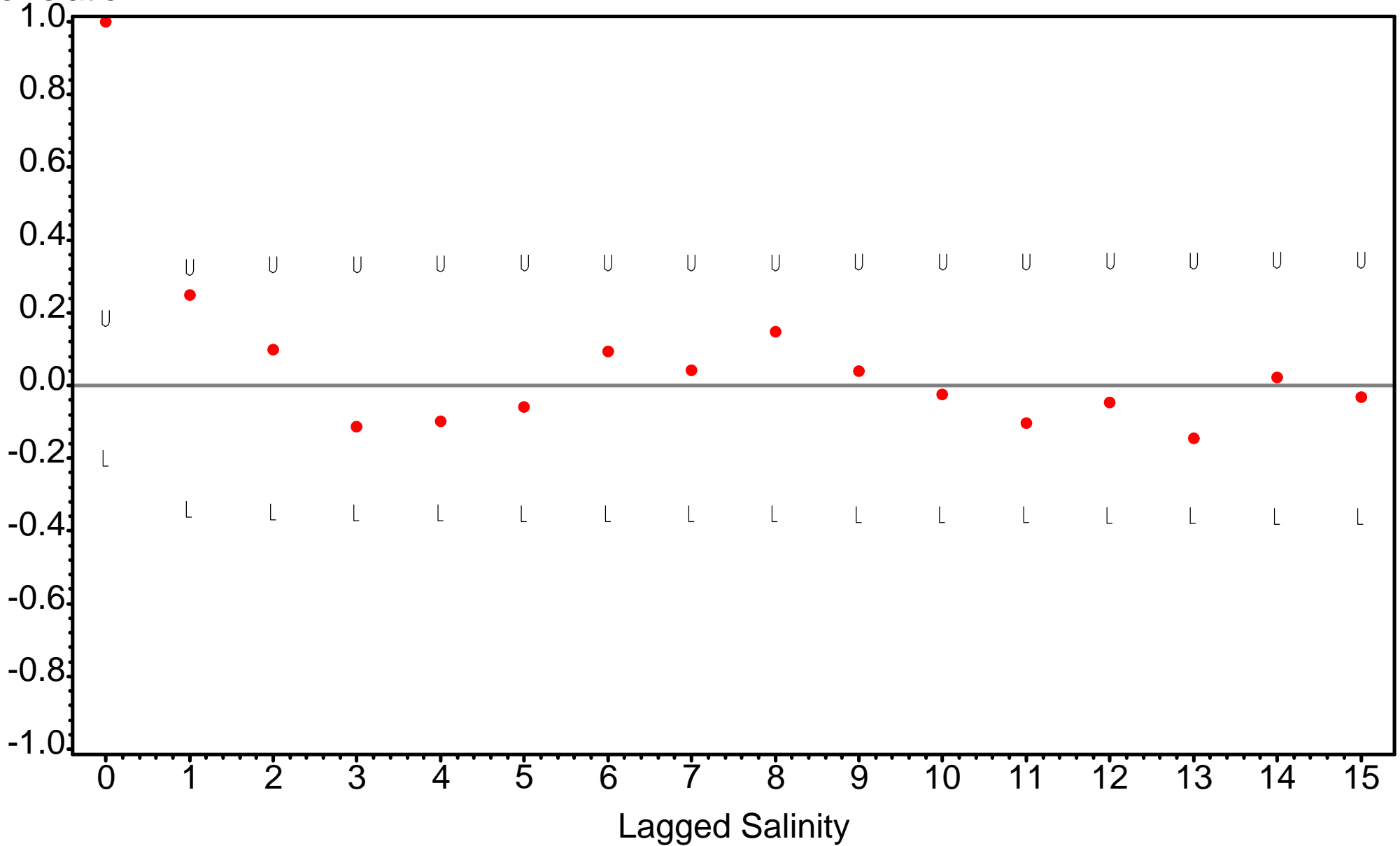
Lower Lemon Bay Trends Appendix - Display 989
Autocorrelation Statistics for Surface Salinity in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.248	0.167	0.333	-0.333
2	0.099	0.170	0.340	-0.340
3	-0.114	0.171	0.341	-0.341
4	-0.099	0.171	0.343	-0.343
5	-0.059	0.172	0.344	-0.344
6	0.093	0.172	0.344	-0.344
7	0.041	0.172	0.345	-0.345
8	0.148	0.173	0.345	-0.345
9	0.040	0.174	0.347	-0.347
10	-0.025	0.174	0.348	-0.348
11	-0.103	0.174	0.348	-0.348
12	-0.046	0.174	0.349	-0.349
13	-0.146	0.174	0.349	-0.349
14	0.023	0.176	0.351	-0.351
15	-0.031	0.176	0.351	-0.351

Lower Lemon Bay Trends Appendix - Display 990

Correlogram for Surface Salinity in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation

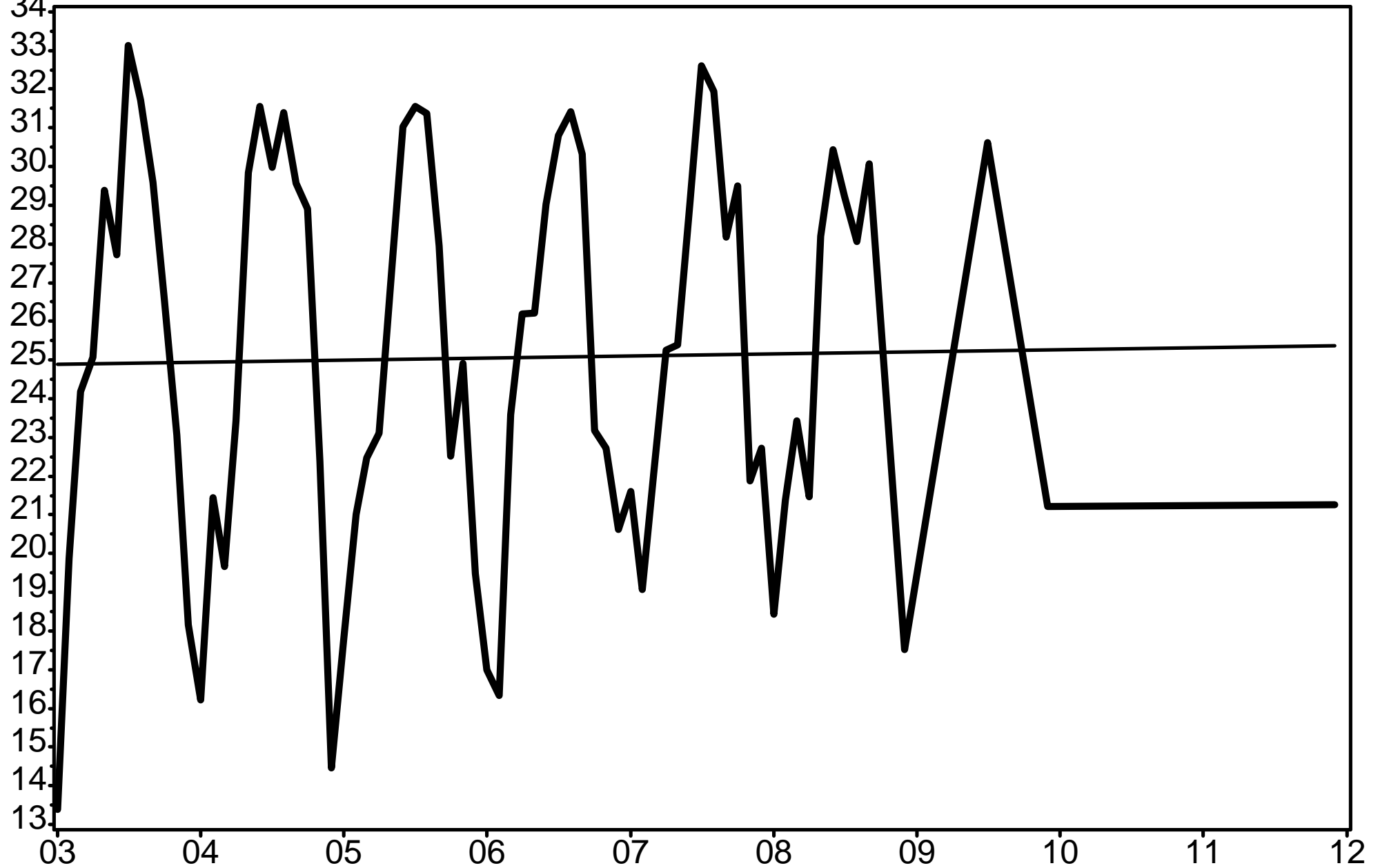


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 991

Monthly Data Time Series
for Surface Temperature in Lower Lemon Bay
Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)



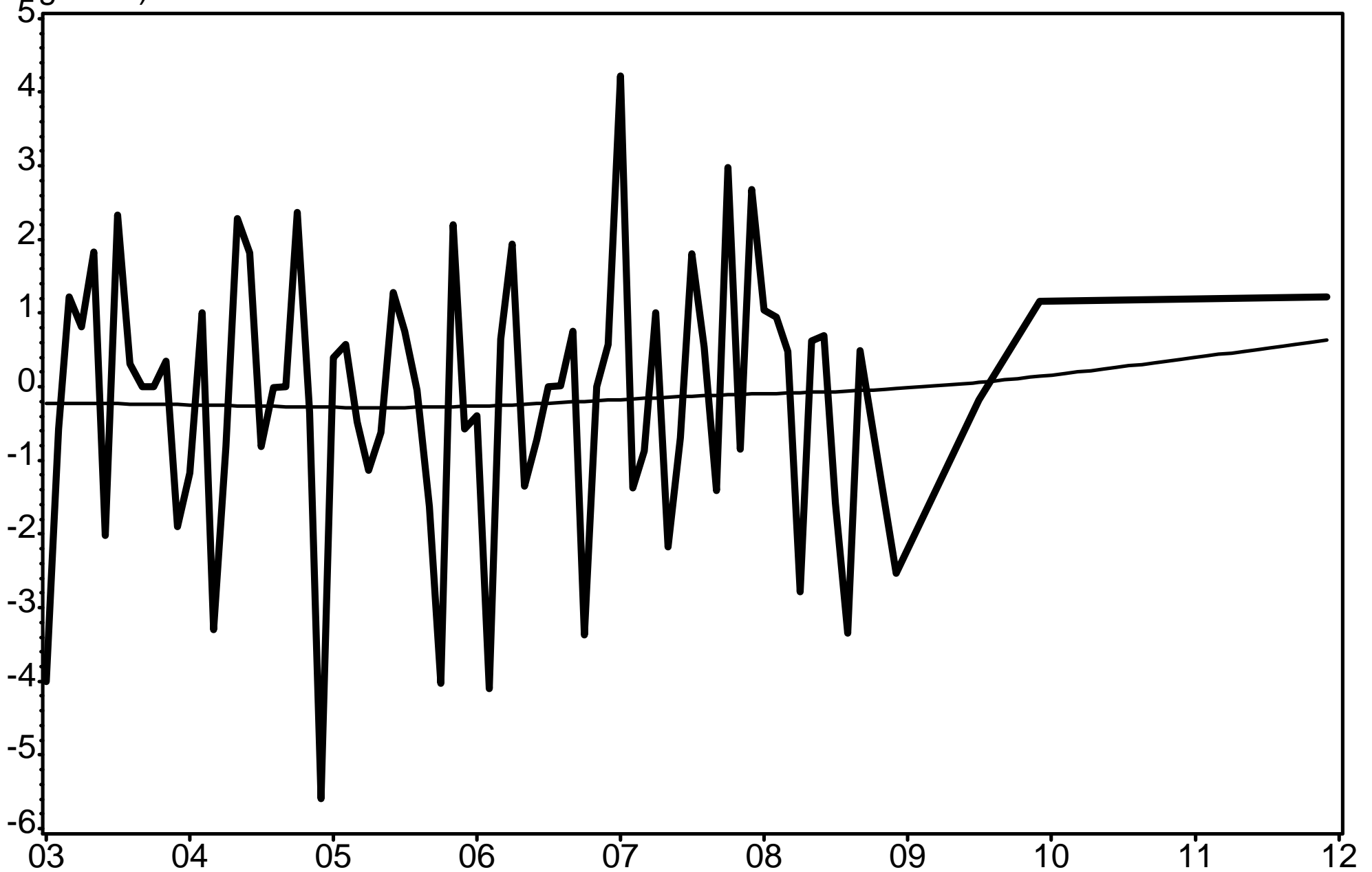
Lower Lemon Bay Trends Appendix - Display 992

Monthly Data Time Series

for Surface Temperature in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TEMP_C
(Degree C)

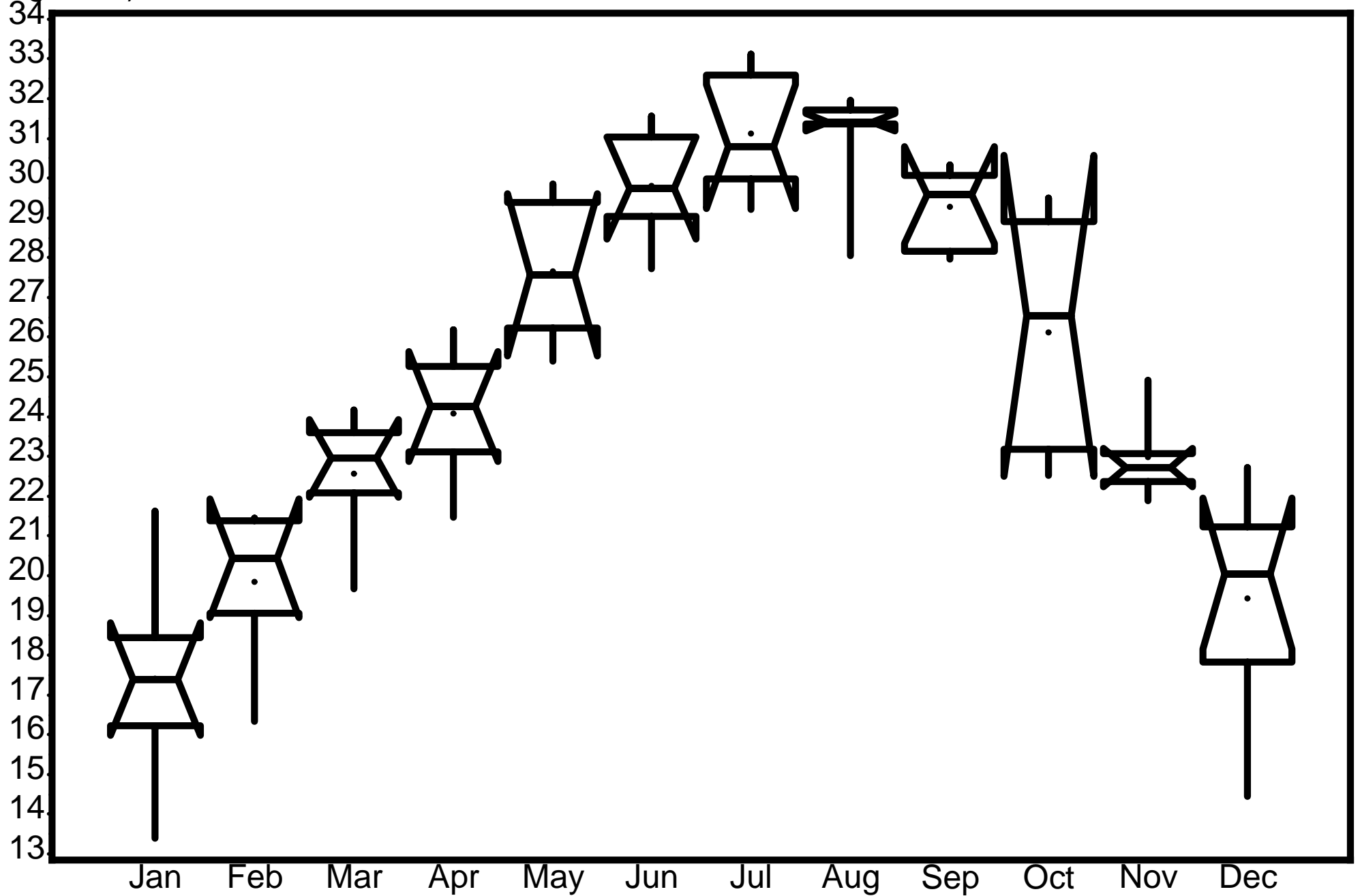


Lower Lemon Bay Trends Appendix - Display 993

Seasonal Univariate Statistics

for Surface Temperature in Lower Lemon Bay

TEMP_C
(Degree C)



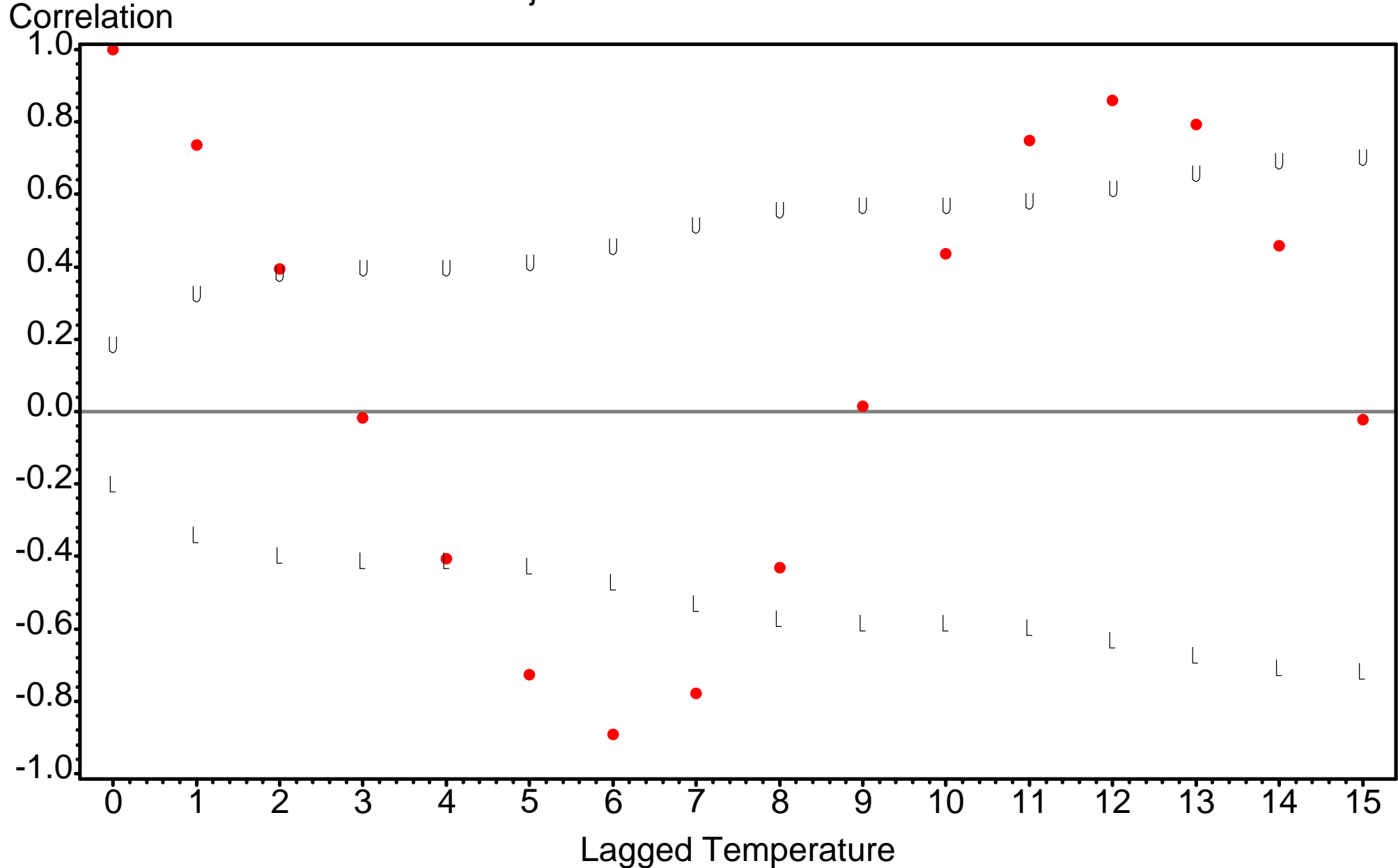
Lower Lemon Bay Trends Appendix - Display 994
Autocorrelation Statistics for Surface Temperature in Lower Lemon Bay

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.737	0.167	0.333	-0.333
2	0.394	0.195	0.389	-0.389
3	-0.018	0.202	0.404	-0.404
4	-0.406	0.202	0.404	-0.404
5	-0.727	0.209	0.418	-0.418
6	-0.892	0.231	0.463	-0.463
7	-0.779	0.261	0.523	-0.523
8	-0.430	0.282	0.564	-0.564
9	0.016	0.288	0.576	-0.576
10	0.437	0.288	0.576	-0.576
11	0.748	0.294	0.588	-0.588
12	0.860	0.311	0.622	-0.622
13	0.793	0.332	0.665	-0.665
14	0.458	0.350	0.699	-0.699
15	-0.023	0.355	0.710	-0.710

Lower Lemon Bay Trends Appendix - Display 995

Correlogram for Surface Temperature in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 996
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.006	0.943	0.943	0.032

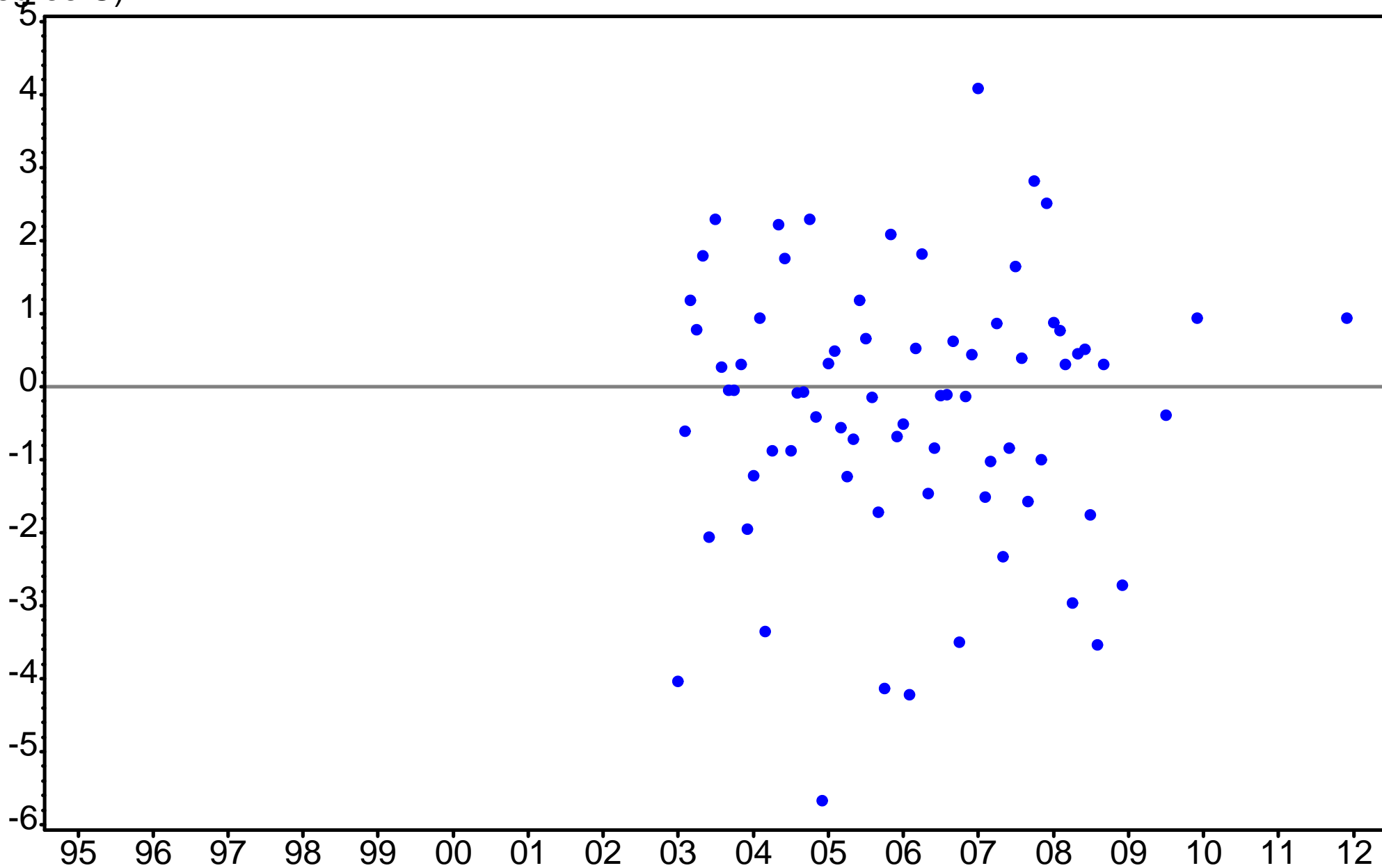
Lower Lemon Bay Trends Appendix - Display 997
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.015873	0.91715	0.86433	0.028

Lower Lemon Bay Trends Appendix - Display 998

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(Degree C)



Zero Reference Line Shown

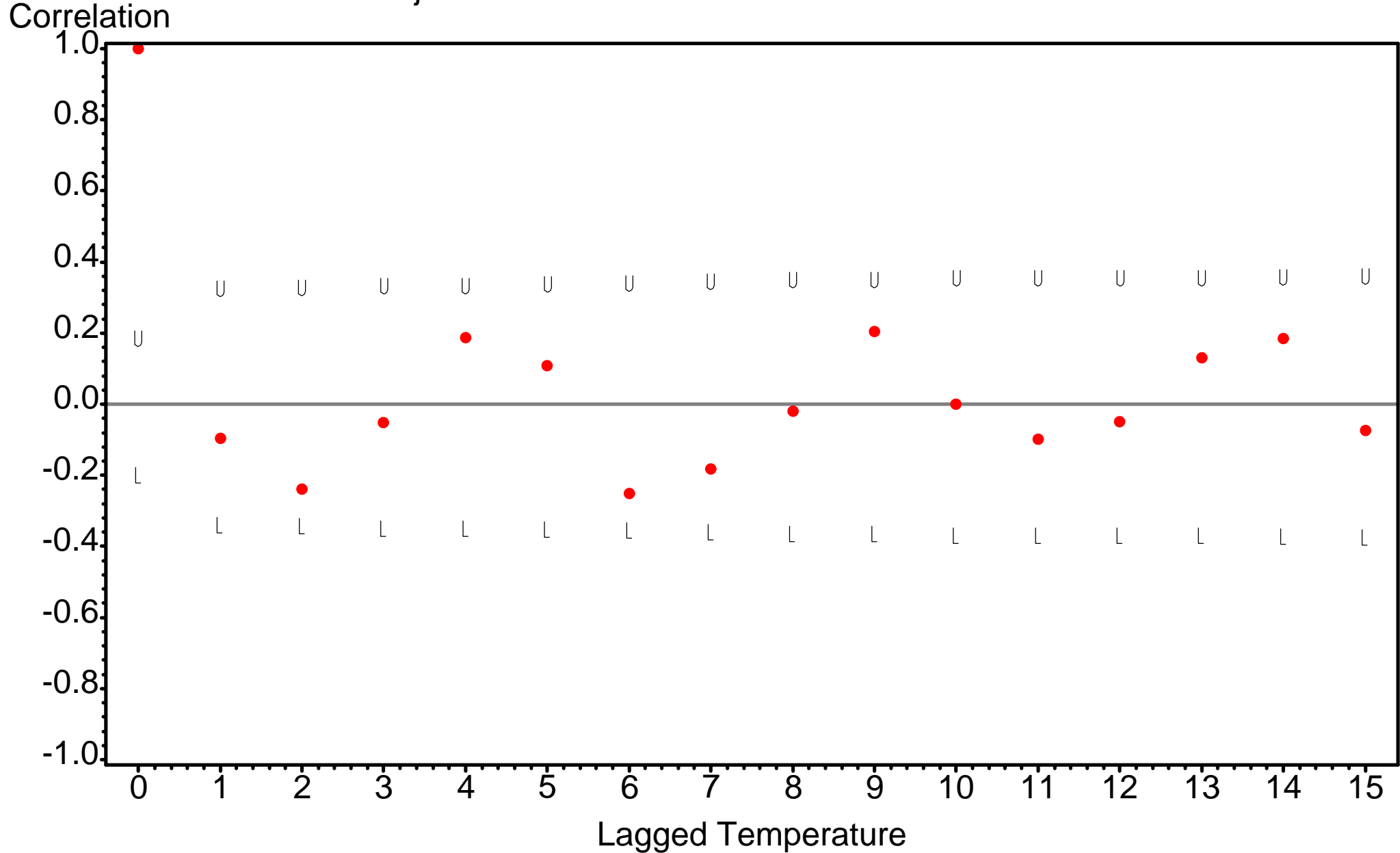
Lower Lemon Bay Trends Appendix - Display 999
Autocorrelation Statistics for Surface Temperature in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.095	0.167	0.333	-0.333
2	-0.239	0.167	0.334	-0.334
3	-0.051	0.170	0.341	-0.341
4	0.187	0.170	0.341	-0.341
5	0.109	0.172	0.345	-0.345
6	-0.252	0.173	0.346	-0.346
7	-0.183	0.176	0.353	-0.353
8	-0.020	0.178	0.356	-0.356
9	0.204	0.178	0.356	-0.356
10	0.001	0.180	0.361	-0.361
11	-0.099	0.180	0.361	-0.361
12	-0.048	0.181	0.362	-0.362
13	0.130	0.181	0.362	-0.362
14	0.185	0.182	0.364	-0.364
15	-0.074	0.184	0.367	-0.367

Lower Lemon Bay Trends Appendix - Display 1000

Correlogram for Surface Temperature in Lower Lemon Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

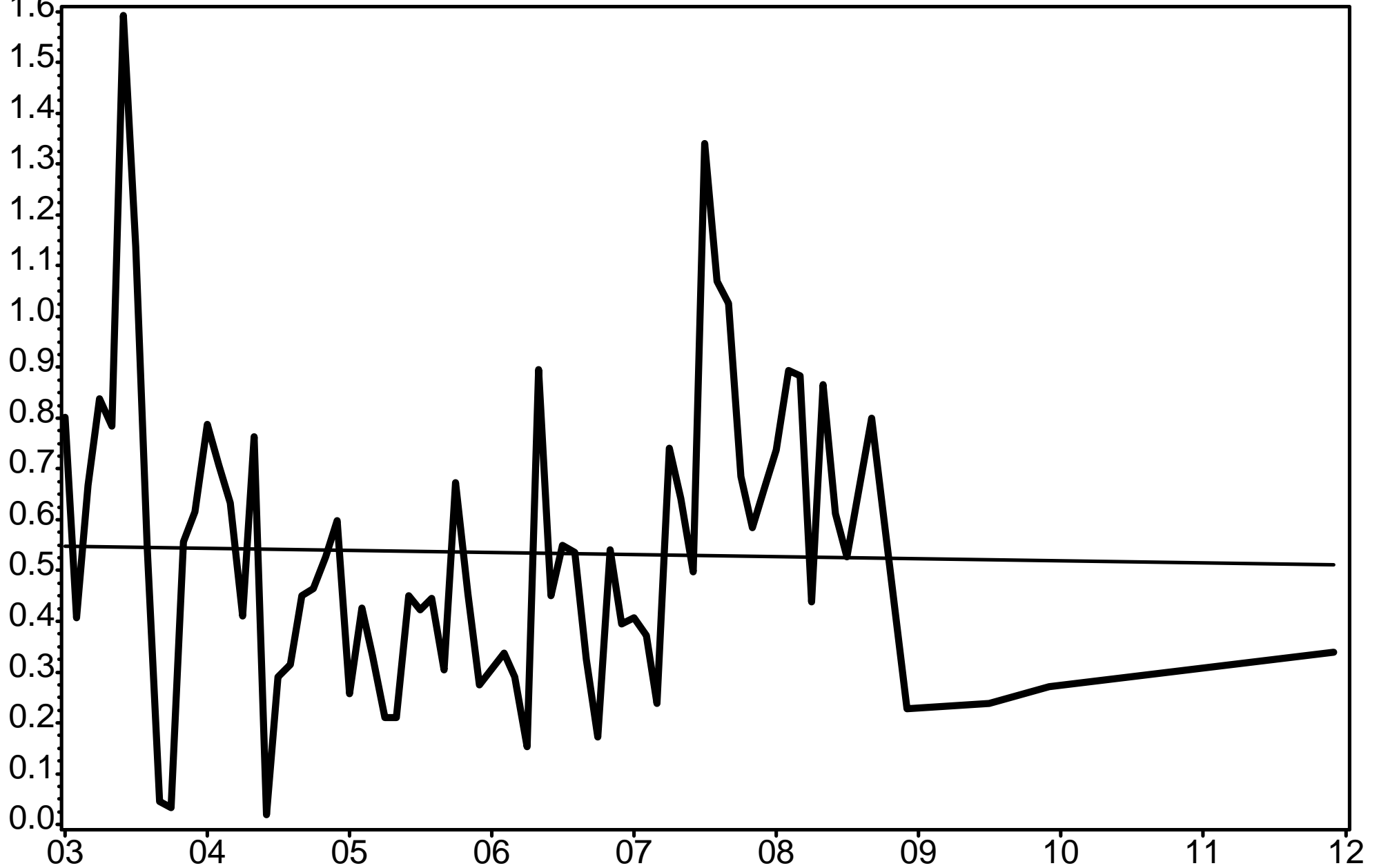
Lower Lemon Bay Trends Appendix - Display 1001

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



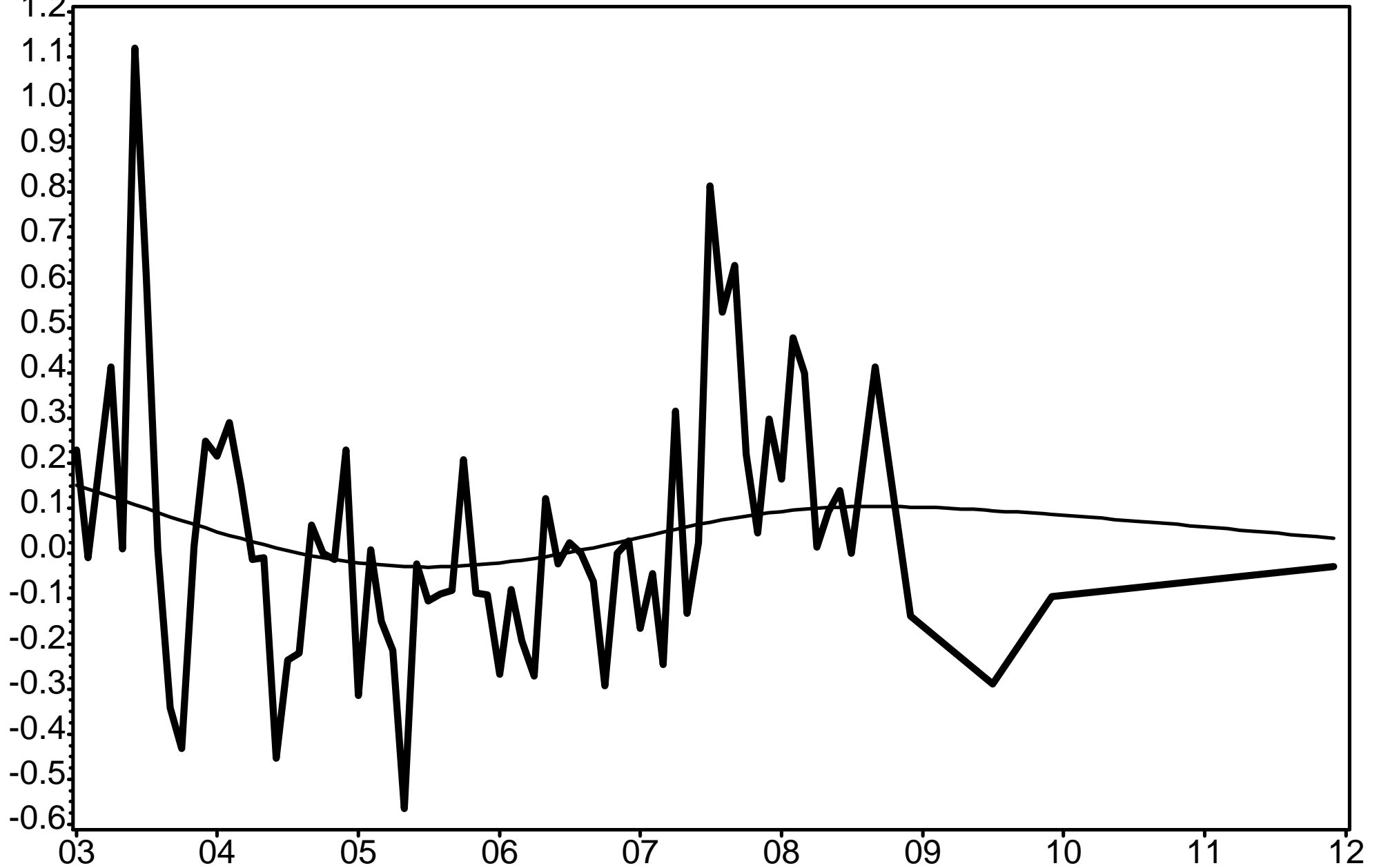
Lower Lemon Bay Trends Appendix - Display 1002

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

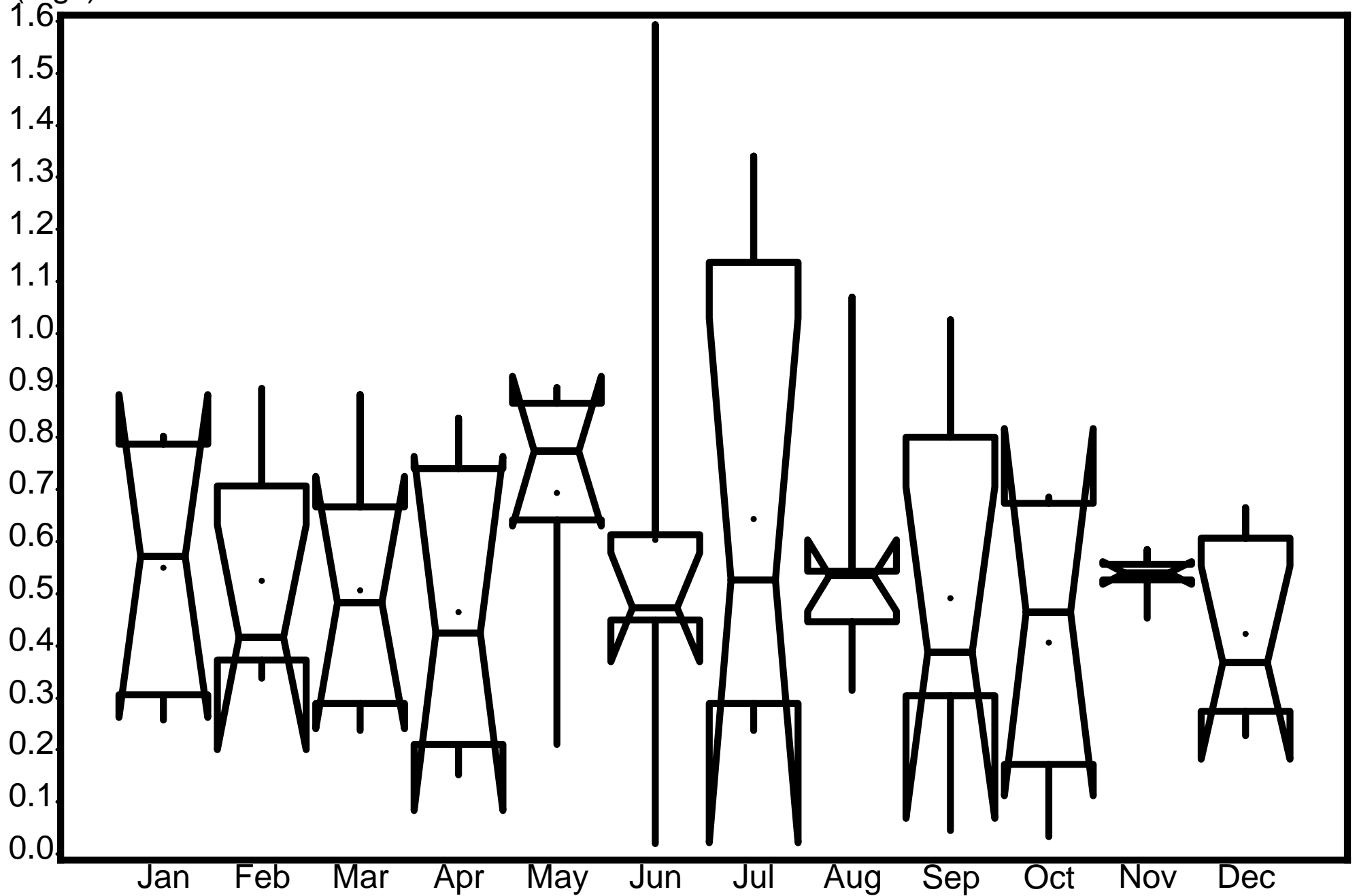


Lower Lemon Bay Trends Appendix - Display 1003

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay

TKN_mgl
(mg/l)



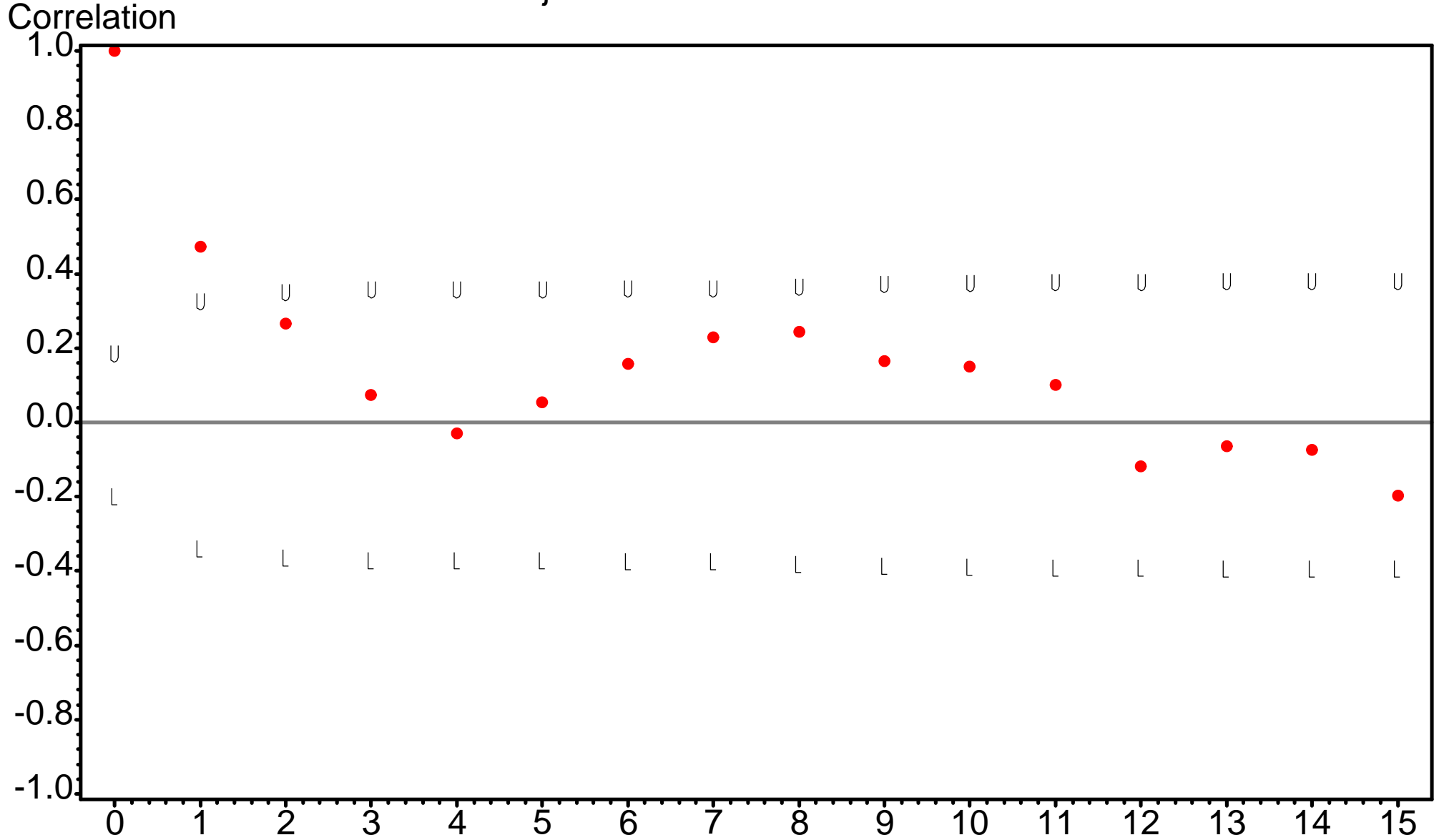
Lower Lemon Bay Trends Appendix - Display 1004
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.472	0.167	0.333	-0.333
2	0.267	0.179	0.357	-0.357
3	0.074	0.182	0.365	-0.365
4	-0.030	0.183	0.365	-0.365
5	0.053	0.183	0.365	-0.365
6	0.158	0.183	0.366	-0.366
7	0.230	0.184	0.368	-0.368
8	0.245	0.187	0.373	-0.373
9	0.164	0.190	0.379	-0.379
10	0.151	0.191	0.382	-0.382
11	0.101	0.192	0.384	-0.384
12	-0.118	0.193	0.385	-0.385
13	-0.063	0.193	0.386	-0.386
14	-0.074	0.193	0.387	-0.387
15	-0.196	0.194	0.387	-0.387

Lower Lemon Bay Trends Appendix - Display 1005

Correlogram for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1006
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.001	0.992	0.992	0

Lower Lemon Bay Trends Appendix - Display 1007
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay
Adjusted for Seasonal Medians

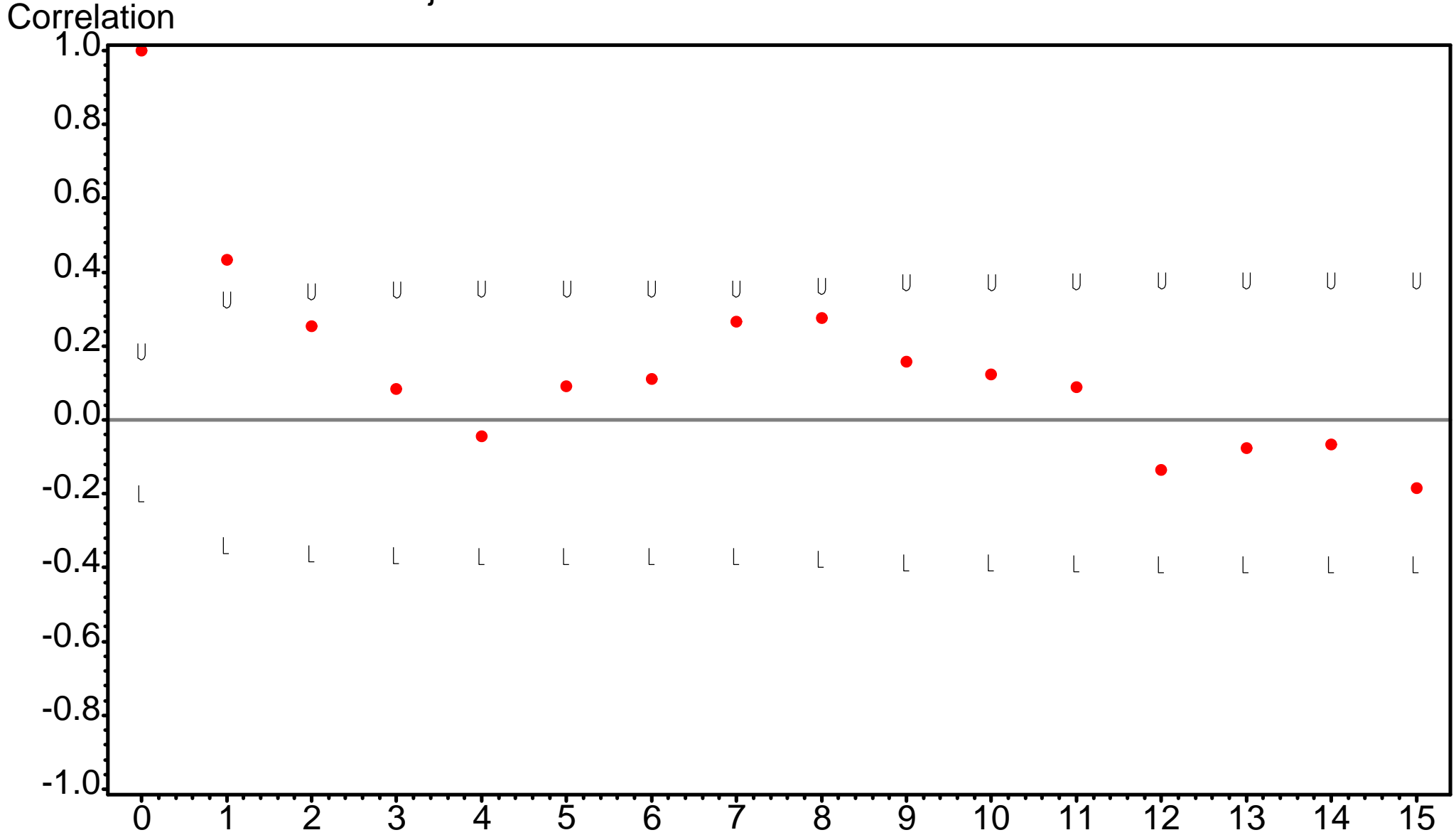
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.016304	0.91570	0.94597	.00625

Lower Lemon Bay Trends Appendix - Display 1009
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.433	0.167	0.333	-0.333
2	0.253	0.177	0.354	-0.354
3	0.084	0.180	0.360	-0.360
4	-0.044	0.180	0.361	-0.361
5	0.090	0.181	0.361	-0.361
6	0.110	0.181	0.362	-0.362
7	0.266	0.182	0.363	-0.363
8	0.277	0.185	0.370	-0.370
9	0.158	0.189	0.378	-0.378
10	0.123	0.190	0.380	-0.380
11	0.088	0.191	0.382	-0.382
12	-0.136	0.191	0.383	-0.383
13	-0.076	0.192	0.384	-0.384
14	-0.067	0.192	0.385	-0.385
15	-0.185	0.193	0.385	-0.385

Lower Lemon Bay Trends Appendix - Display 1010

Correlogram for Surface Total Kjeldahl Nitrogen in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

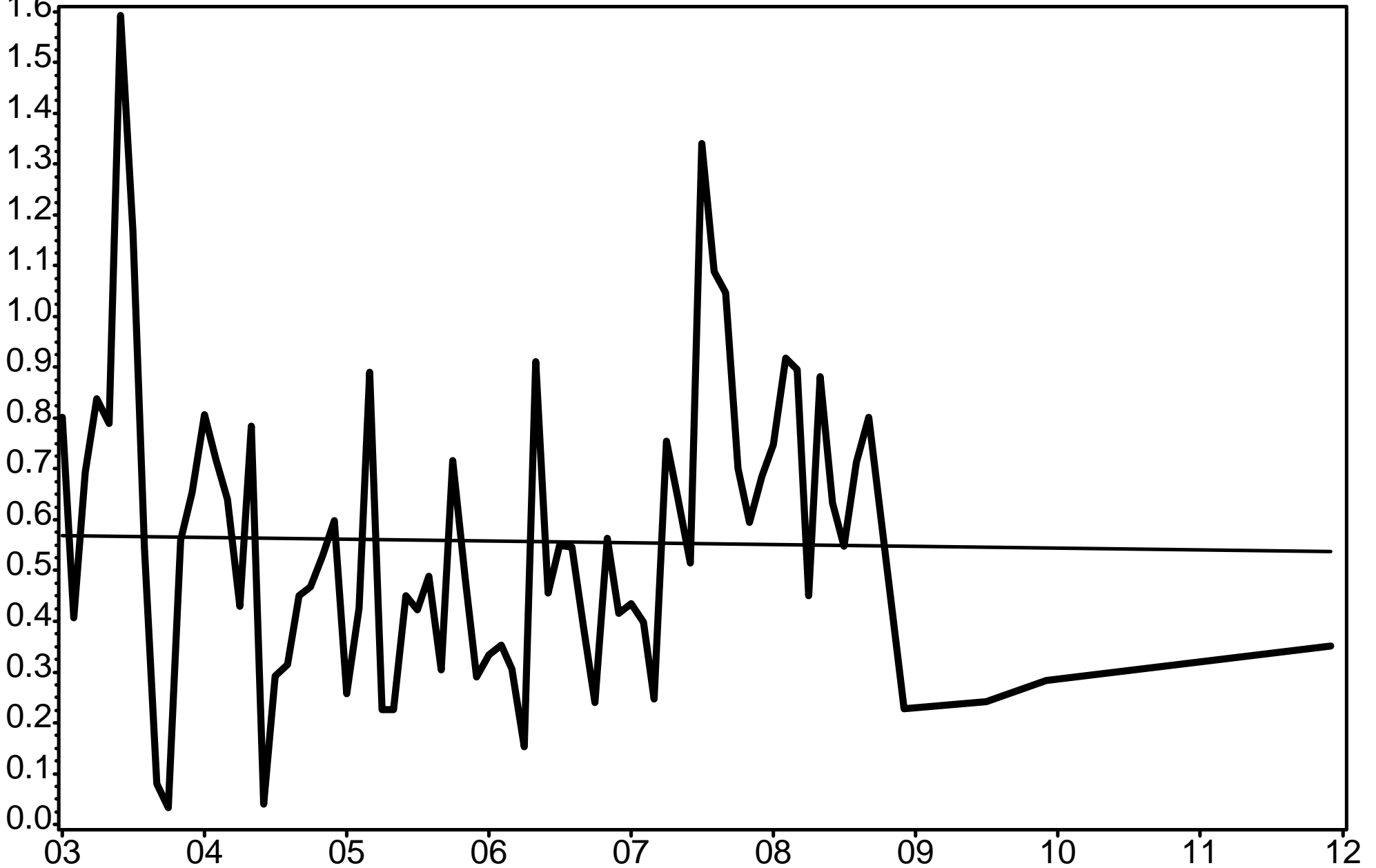
Lower Lemon Bay Trends Appendix - Display 1011

Monthly Data Time Series

for Surface Total Nitrogen in Lower Lemon Bay

Not Adjusted for Seasonal Medians

TN_mgl
(mg/l)



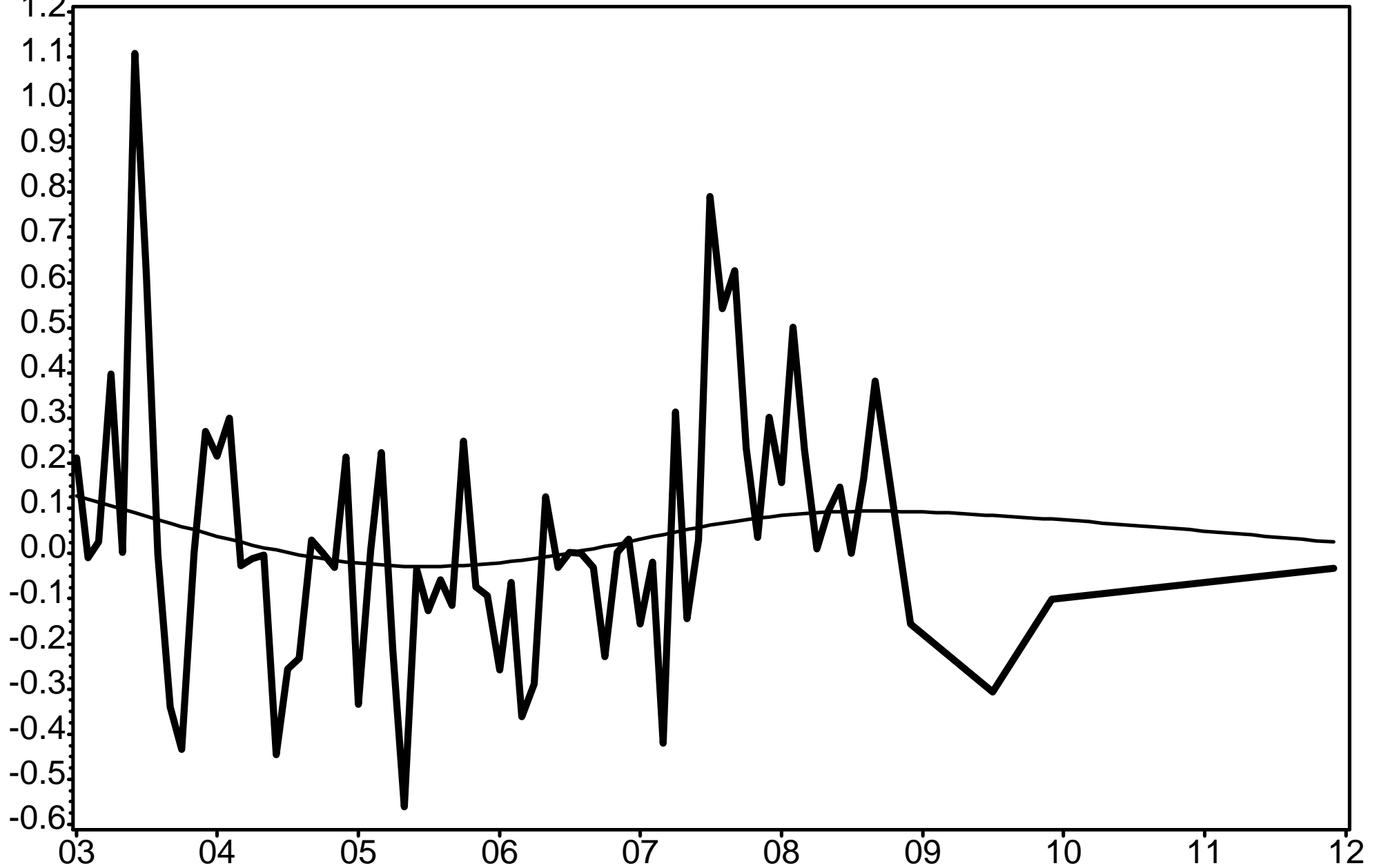
Lower Lemon Bay Trends Appendix - Display 1012

Monthly Data Time Series

for Surface Total Nitrogen in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

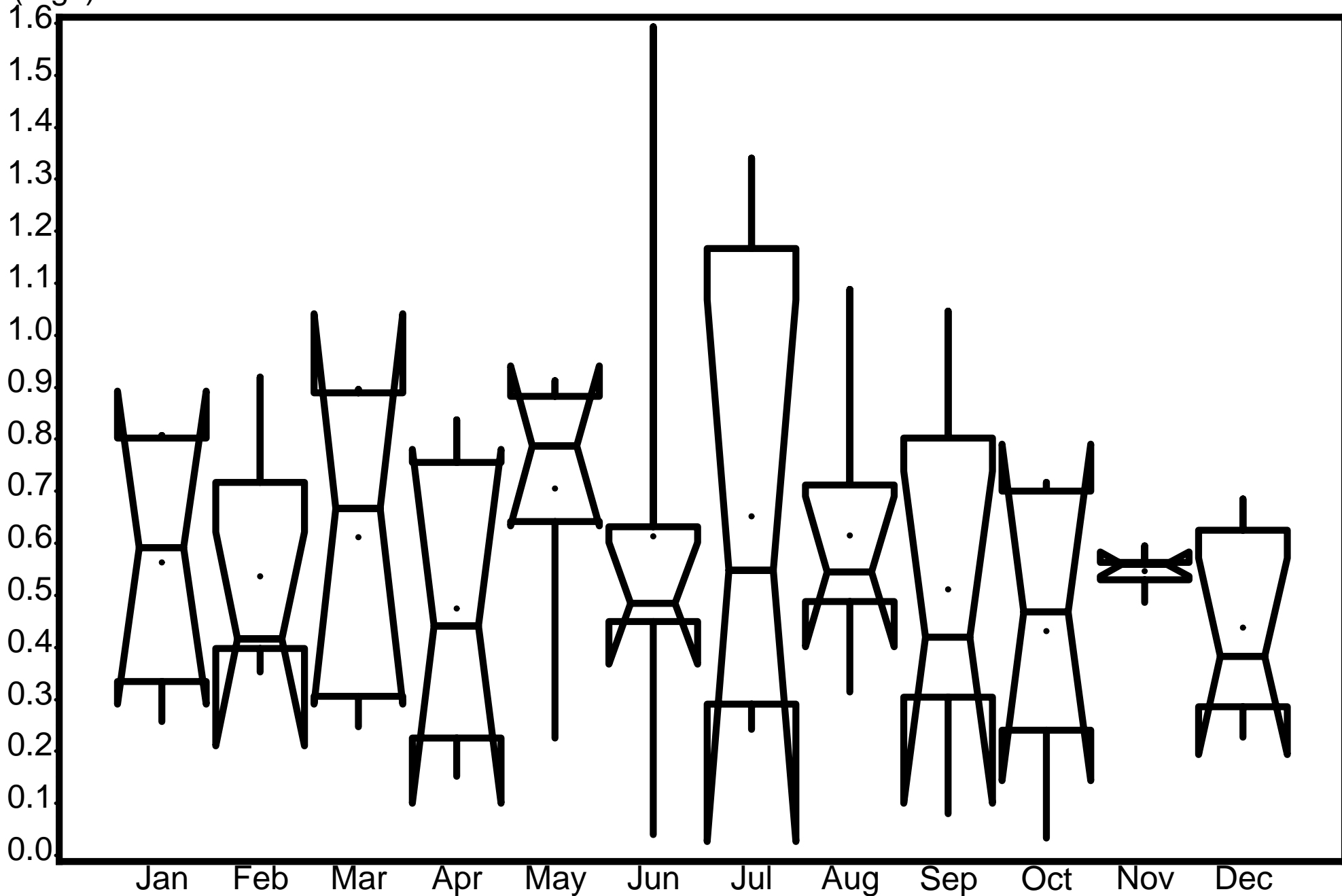


Lower Lemon Bay Trends Appendix - Display 1013

Seasonal Univariate Statistics

for Surface Total Nitrogen in Lower Lemon Bay

TN_mgl
(mg/l)



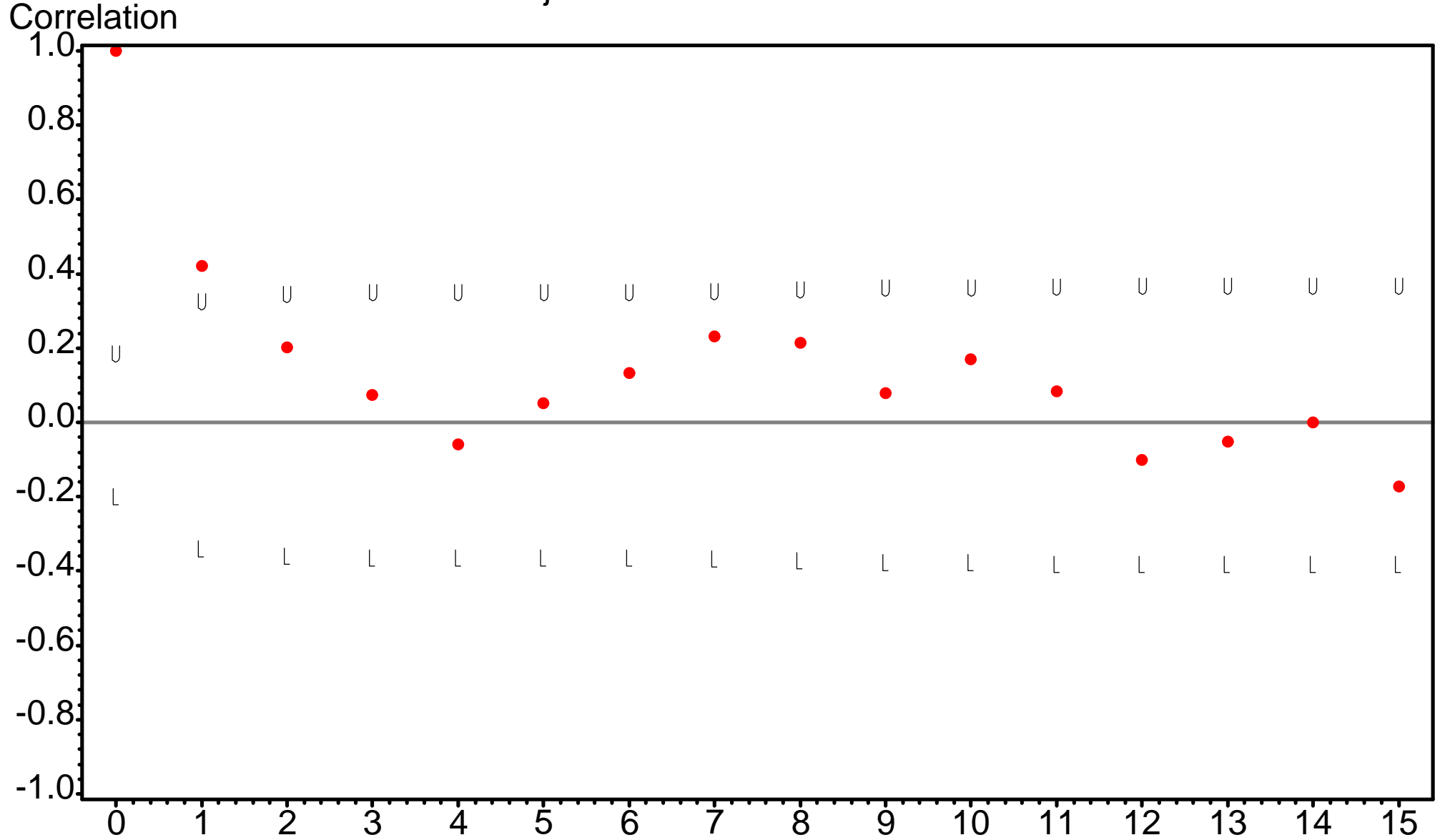
Lower Lemon Bay Trends Appendix - Display 1014
Autocorrelation Statistics for Surface Total Nitrogen in Lower Lemon Bay

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.421	0.167	0.333	-0.333
2	0.202	0.176	0.353	-0.353
3	0.073	0.178	0.357	-0.357
4	-0.058	0.179	0.357	-0.357
5	0.051	0.179	0.358	-0.358
6	0.132	0.179	0.358	-0.358
7	0.232	0.180	0.360	-0.360
8	0.215	0.183	0.365	-0.365
9	0.079	0.185	0.370	-0.370
10	0.169	0.185	0.370	-0.370
11	0.083	0.187	0.373	-0.373
12	-0.100	0.187	0.374	-0.374
13	-0.052	0.188	0.375	-0.375
14	0.001	0.188	0.375	-0.375
15	-0.172	0.188	0.375	-0.375

Lower Lemon Bay Trends Appendix - Display 1015

Correlogram for Surface Total Nitrogen in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1016
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.017	0.838	0.838	.004

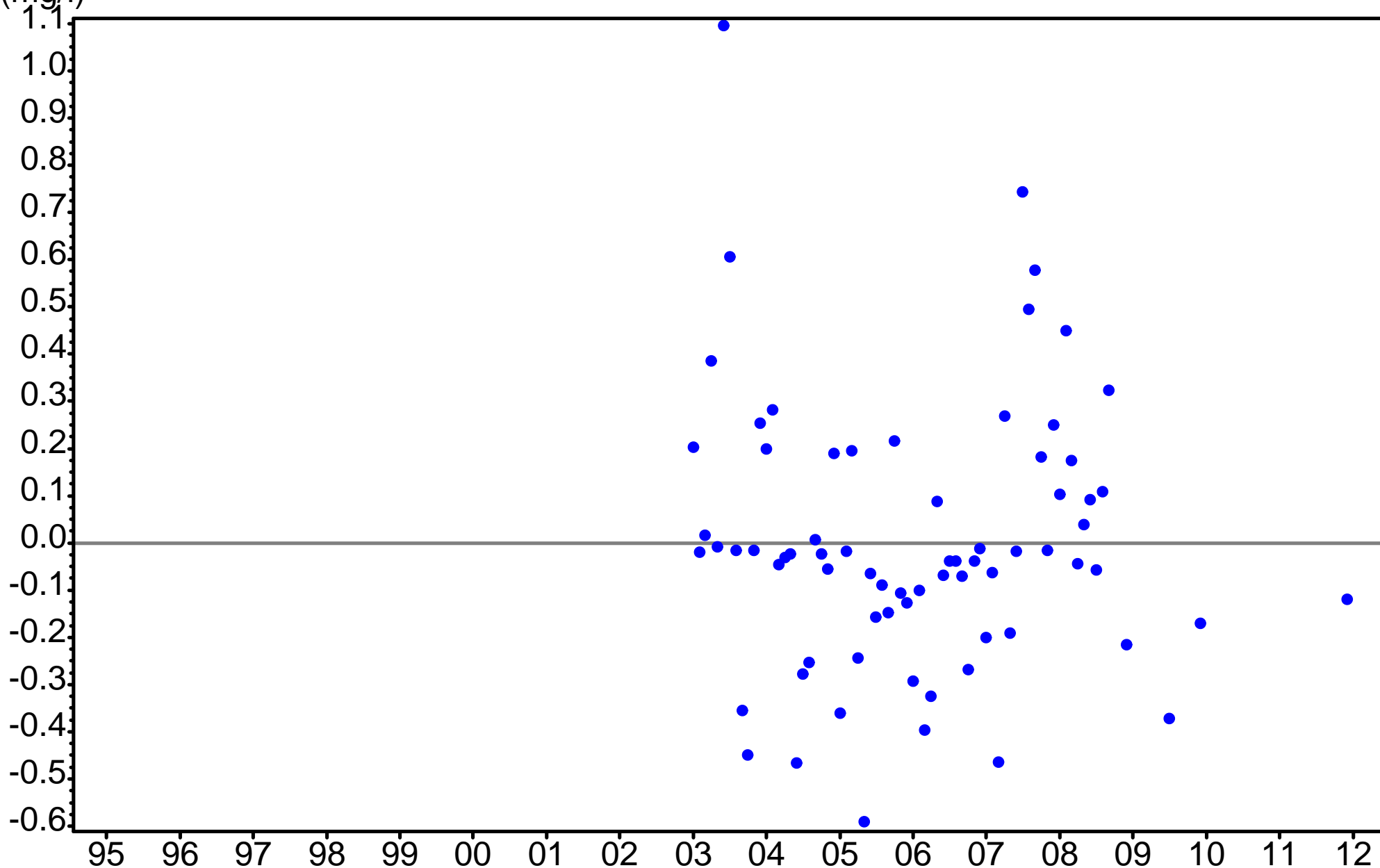
Lower Lemon Bay Trends Appendix - Display 1017
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.079365	0.46652	0.58758	.00875

Lower Lemon Bay Trends Appendix - Display 1018

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(mg/l)



Zero Reference Line Shown

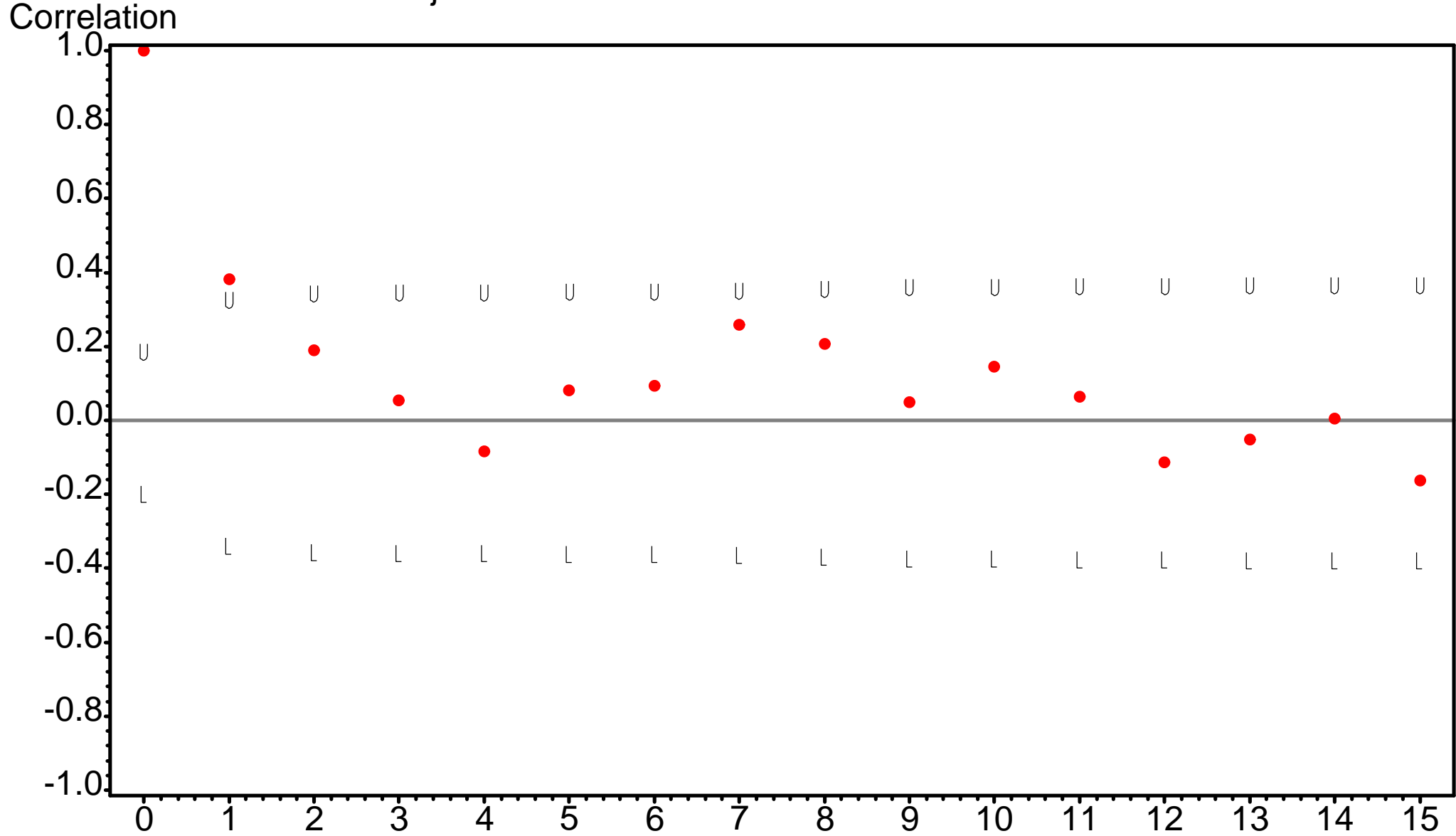
Lower Lemon Bay Trends Appendix - Display 1019
Autocorrelation Statistics for Surface Total Nitrogen in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.382	0.167	0.333	-0.333
2	0.189	0.175	0.349	-0.349
3	0.055	0.176	0.353	-0.353
4	-0.083	0.177	0.353	-0.353
5	0.082	0.177	0.354	-0.354
6	0.093	0.177	0.355	-0.355
7	0.259	0.178	0.356	-0.356
8	0.206	0.181	0.362	-0.362
9	0.049	0.183	0.367	-0.367
10	0.146	0.183	0.367	-0.367
11	0.064	0.185	0.369	-0.369
12	-0.114	0.185	0.370	-0.370
13	-0.052	0.185	0.371	-0.371
14	0.004	0.186	0.371	-0.371
15	-0.162	0.186	0.371	-0.371

Lower Lemon Bay Trends Appendix - Display 1020

Correlogram for Surface Total Nitrogen in Lower Lemon Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

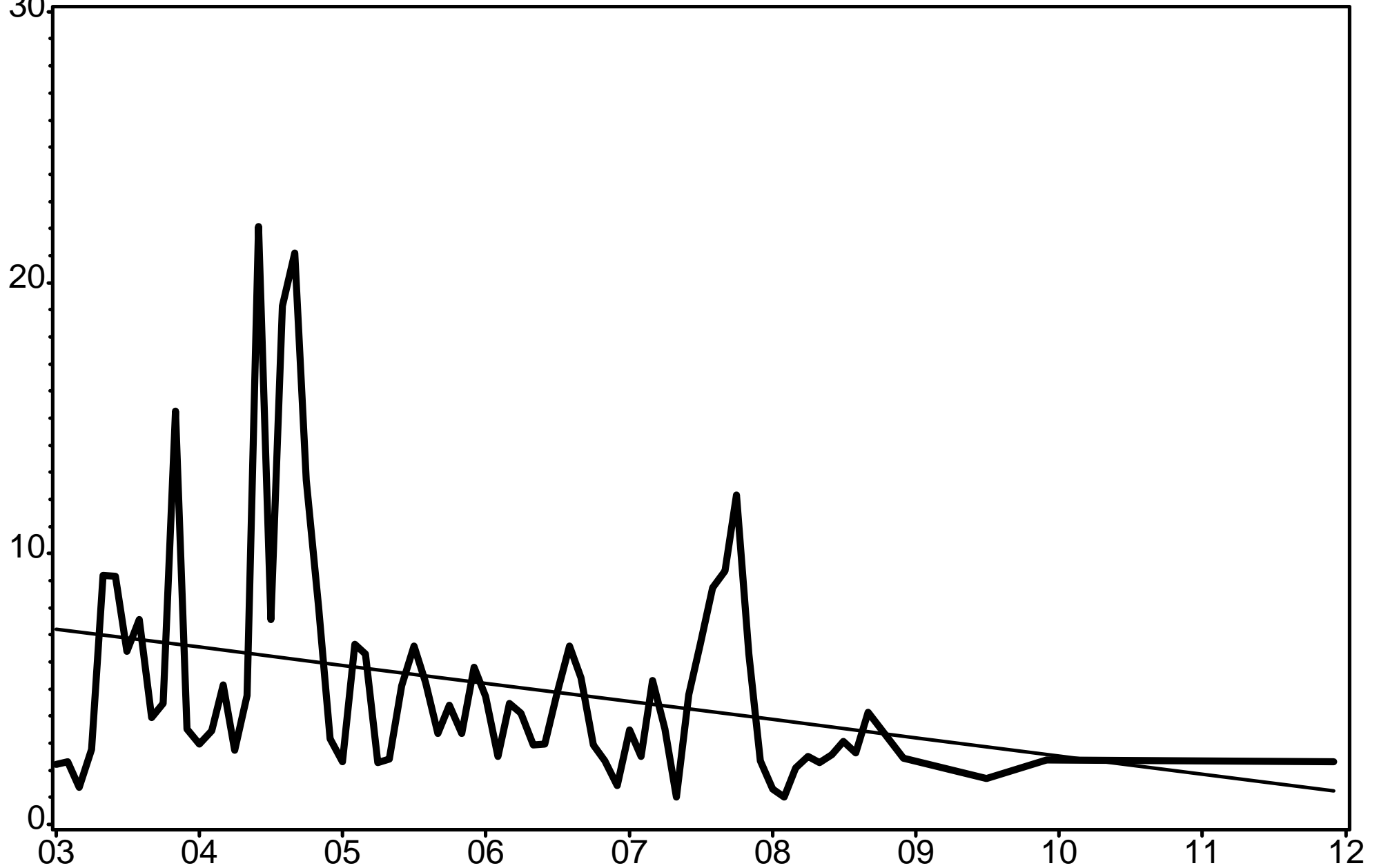
Lower Lemon Bay Trends Appendix - Display 1021

Monthly Data Time Series

for Surface Total Organic Carbon in Lower Lemon Bay

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



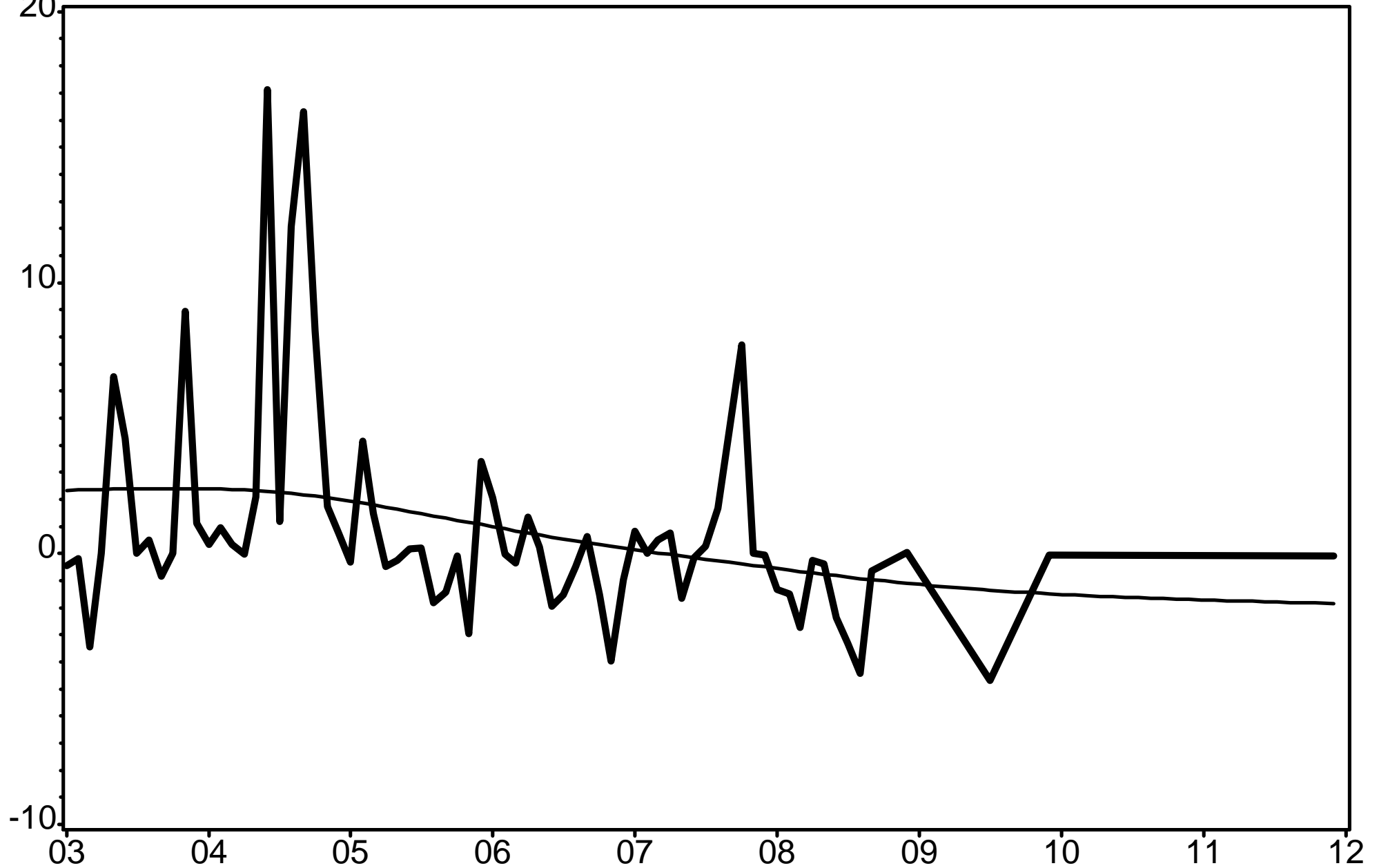
Lower Lemon Bay Trends Appendix - Display 1022

Monthly Data Time Series

for Surface Total Organic Carbon in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

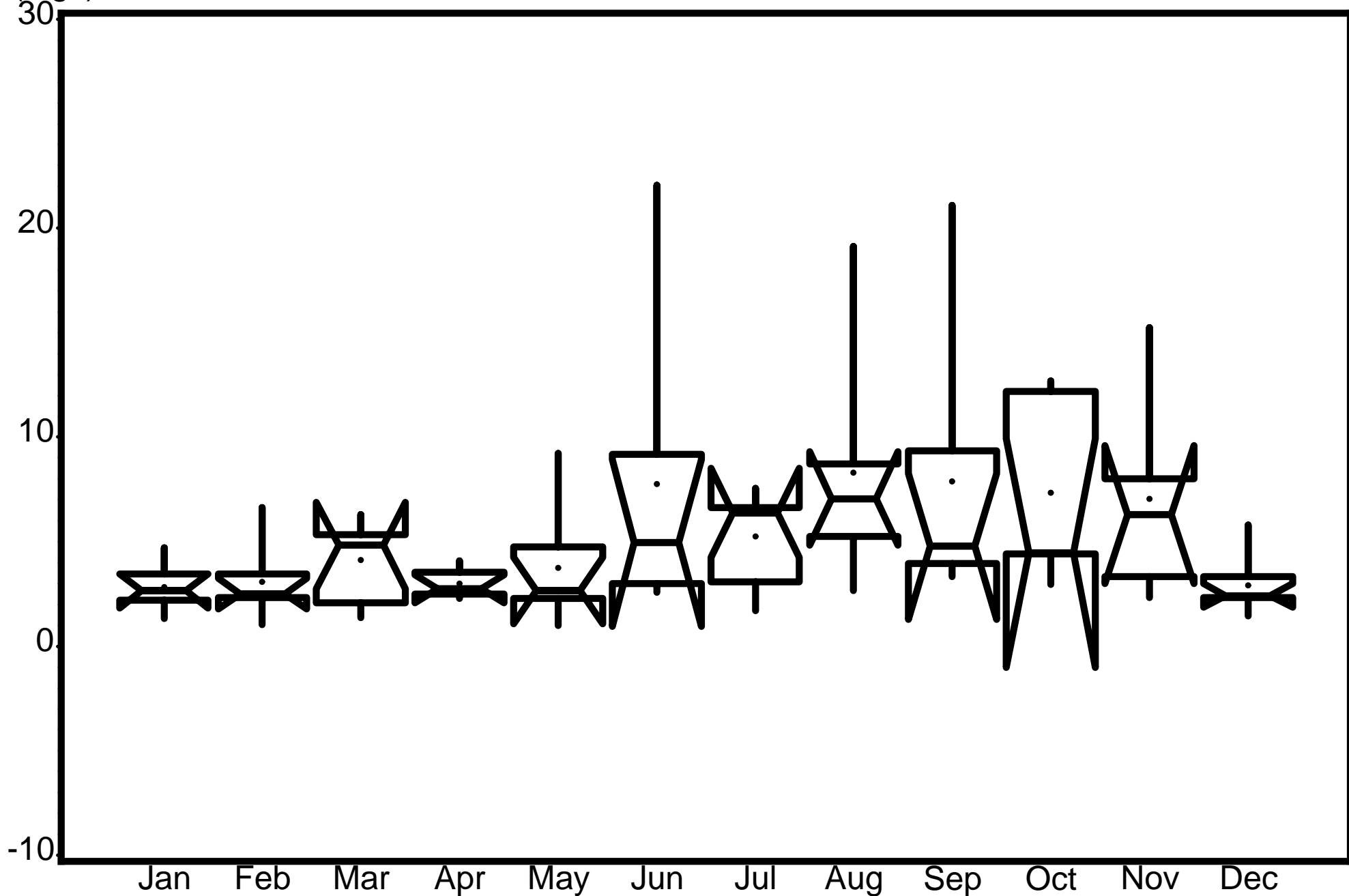


Lower Lemon Bay Trends Appendix - Display 1023

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Lower Lemon Bay

TOC_mgl
(mg/l)



Lower Lemon Bay Trends Appendix - Display 1024

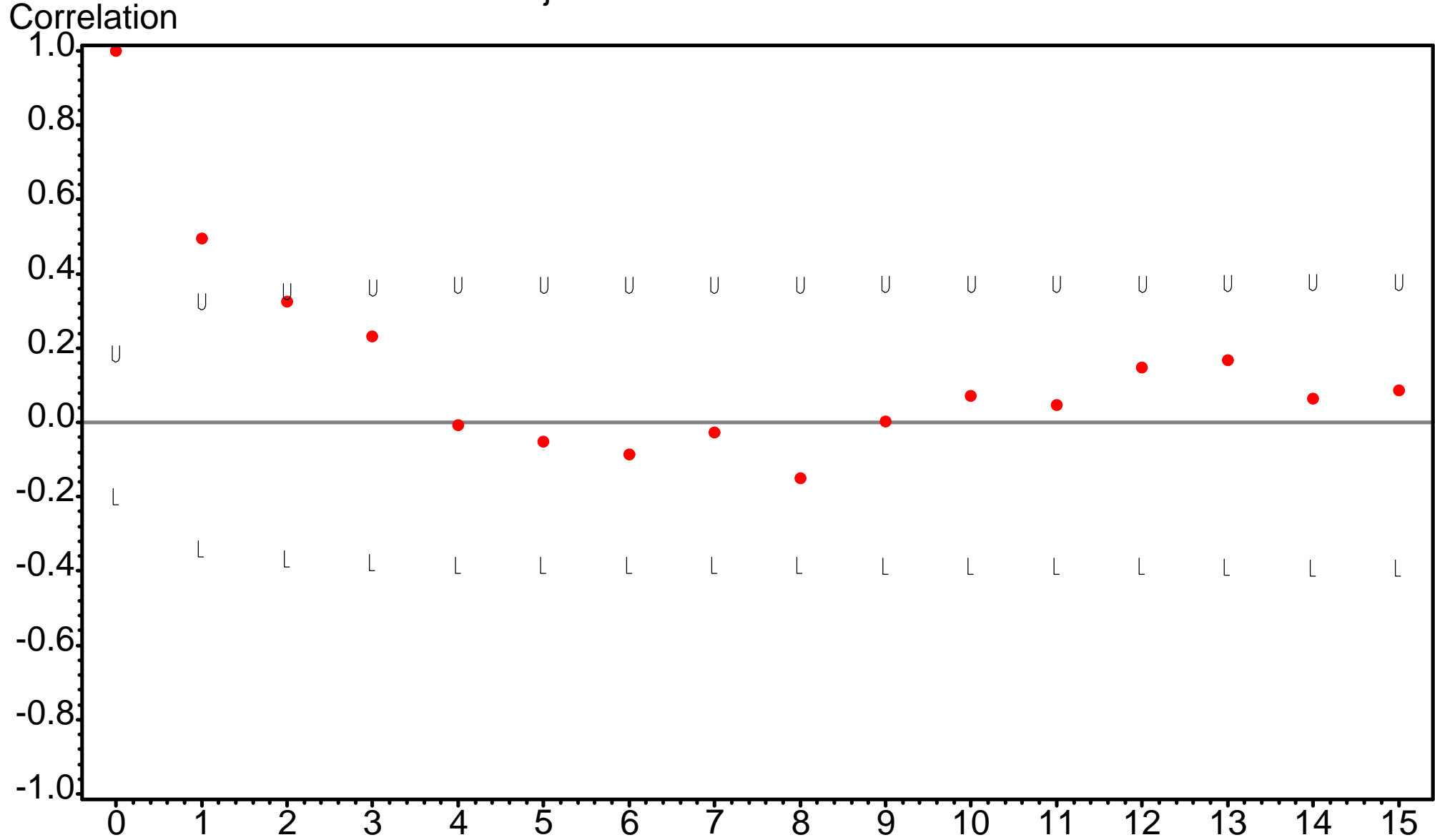
Autocorrelation Statistics for Surface Total Organic Carbon in Lower Lemon Bay

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.496	0.167	0.333	-0.333
2	0.325	0.180	0.360	-0.360
3	0.232	0.185	0.370	-0.370
4	-0.007	0.188	0.376	-0.376
5	-0.052	0.188	0.376	-0.376
6	-0.085	0.188	0.376	-0.376
7	-0.027	0.188	0.377	-0.377
8	-0.149	0.188	0.377	-0.377
9	0.003	0.189	0.379	-0.379
10	0.072	0.189	0.379	-0.379
11	0.047	0.190	0.379	-0.379
12	0.148	0.190	0.380	-0.380
13	0.168	0.191	0.382	-0.382
14	0.063	0.192	0.384	-0.384
15	0.085	0.192	0.385	-0.385

Lower Lemon Bay Trends Appendix - Display 1025

Correlogram for Surface Total Organic Carbon in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1026
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Lower Lemon Bay
Unadjusted for Seasonal Medians

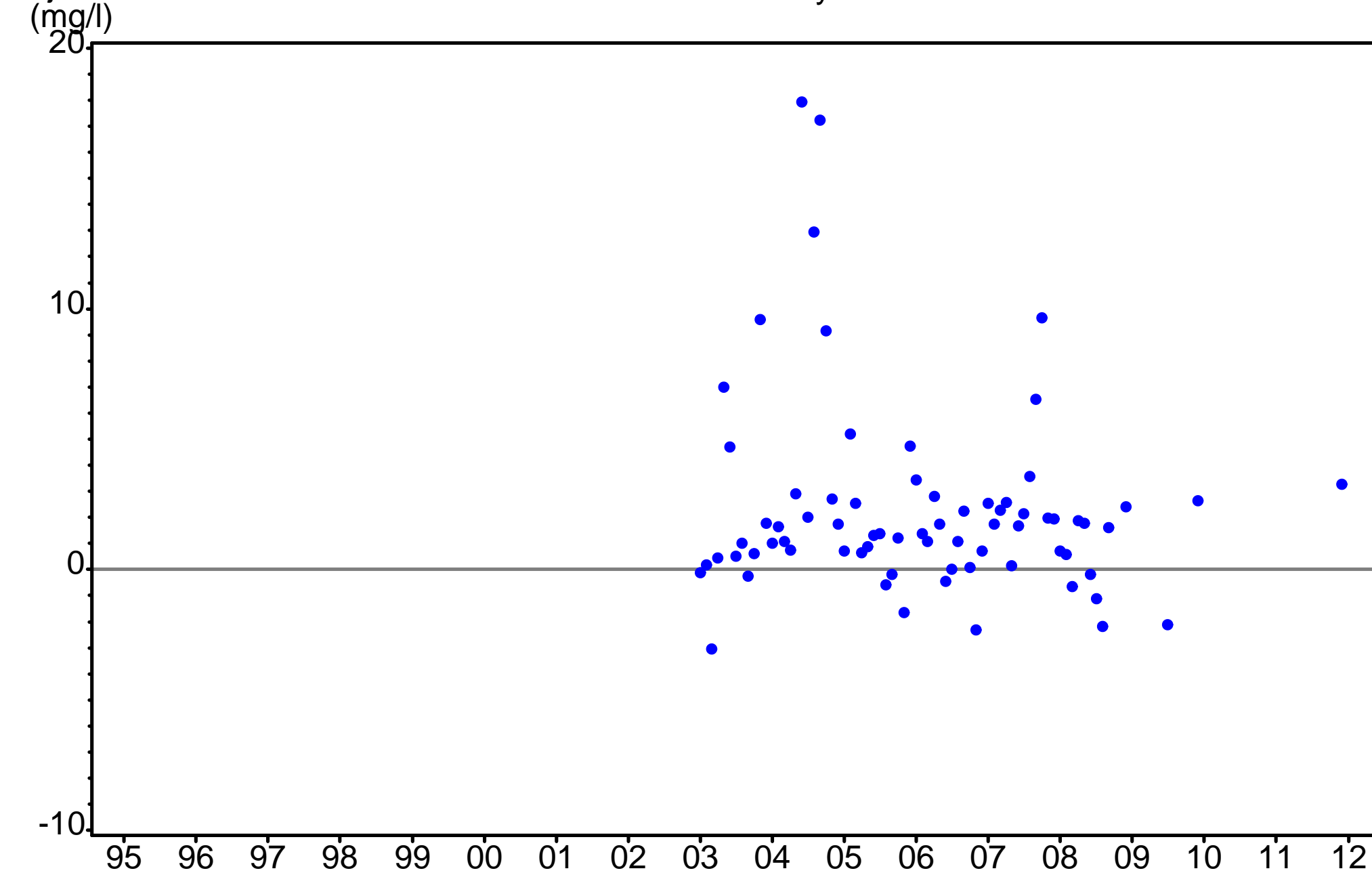
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.223	.005	.005	-0.385

Lower Lemon Bay Trends Appendix - Display 1027
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.31217	.00255581	0.083219	-0.34

Lower Lemon Bay Trends Appendix - Display 1028

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted Lower Lemon Bay



Zero Reference Line Shown

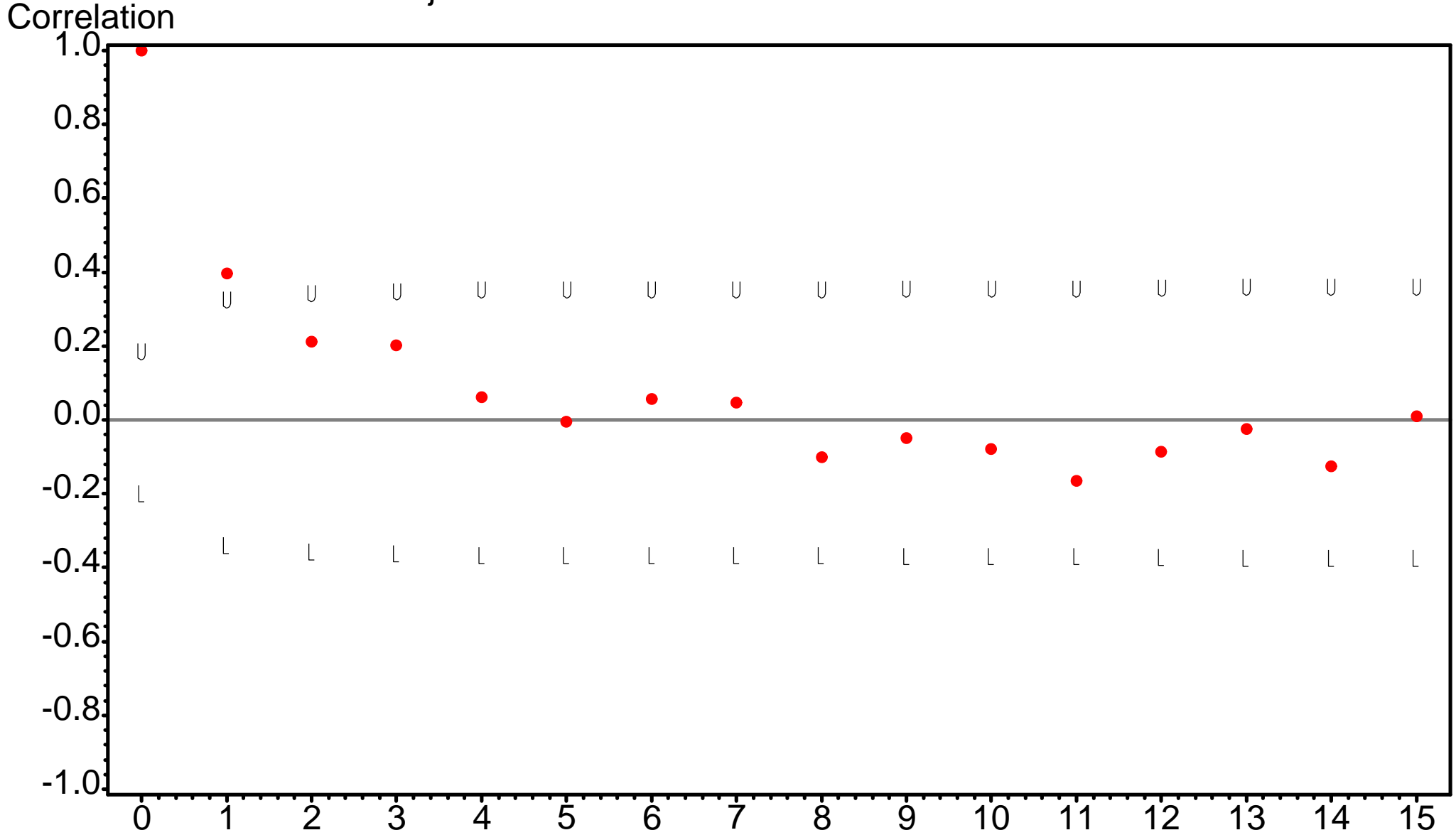
Lower Lemon Bay Trends Appendix - Display 1029
 Autocorrelation Statistics for Surface Total Organic Carbon in Lower Lemon Bay
 Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.397	0.167	0.333	-0.333
2	0.213	0.175	0.350	-0.350
3	0.203	0.178	0.355	-0.355
4	0.062	0.180	0.359	-0.359
5	-0.006	0.180	0.360	-0.360
6	0.056	0.180	0.360	-0.360
7	0.046	0.180	0.360	-0.360
8	-0.102	0.180	0.360	-0.360
9	-0.049	0.181	0.361	-0.361
10	-0.078	0.181	0.362	-0.362
11	-0.165	0.181	0.362	-0.362
12	-0.087	0.183	0.365	-0.365
13	-0.024	0.183	0.366	-0.366
14	-0.125	0.183	0.366	-0.366
15	0.011	0.184	0.367	-0.367

Lower Lemon Bay Trends Appendix - Display 1030

Correlogram for Surface Total Organic Carbon in Lower Lemon Bay

Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

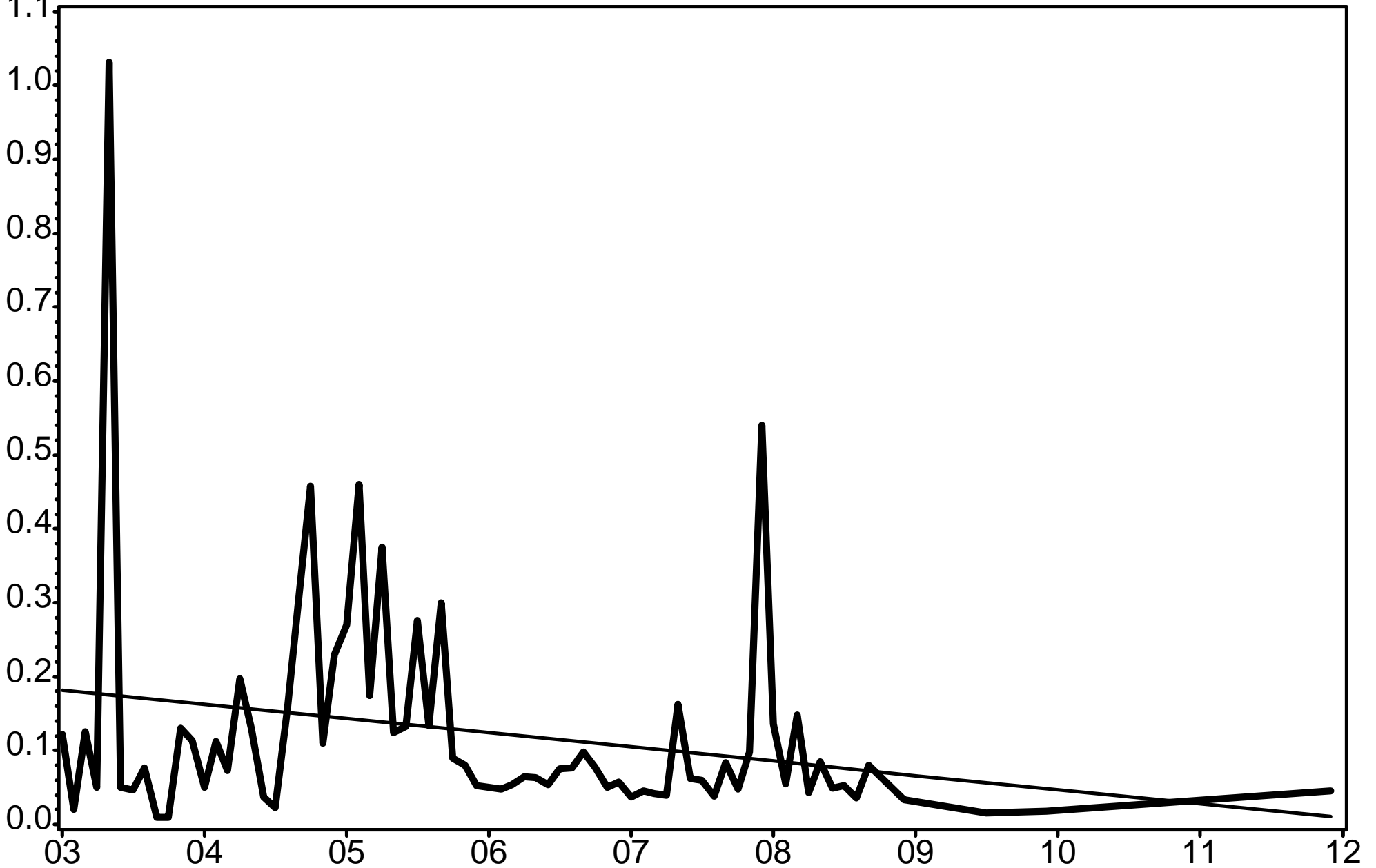
Lower Lemon Bay Trends Appendix - Display 1031

Monthly Data Time Series

for Surface Total Phosphorous in Lower Lemon Bay

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



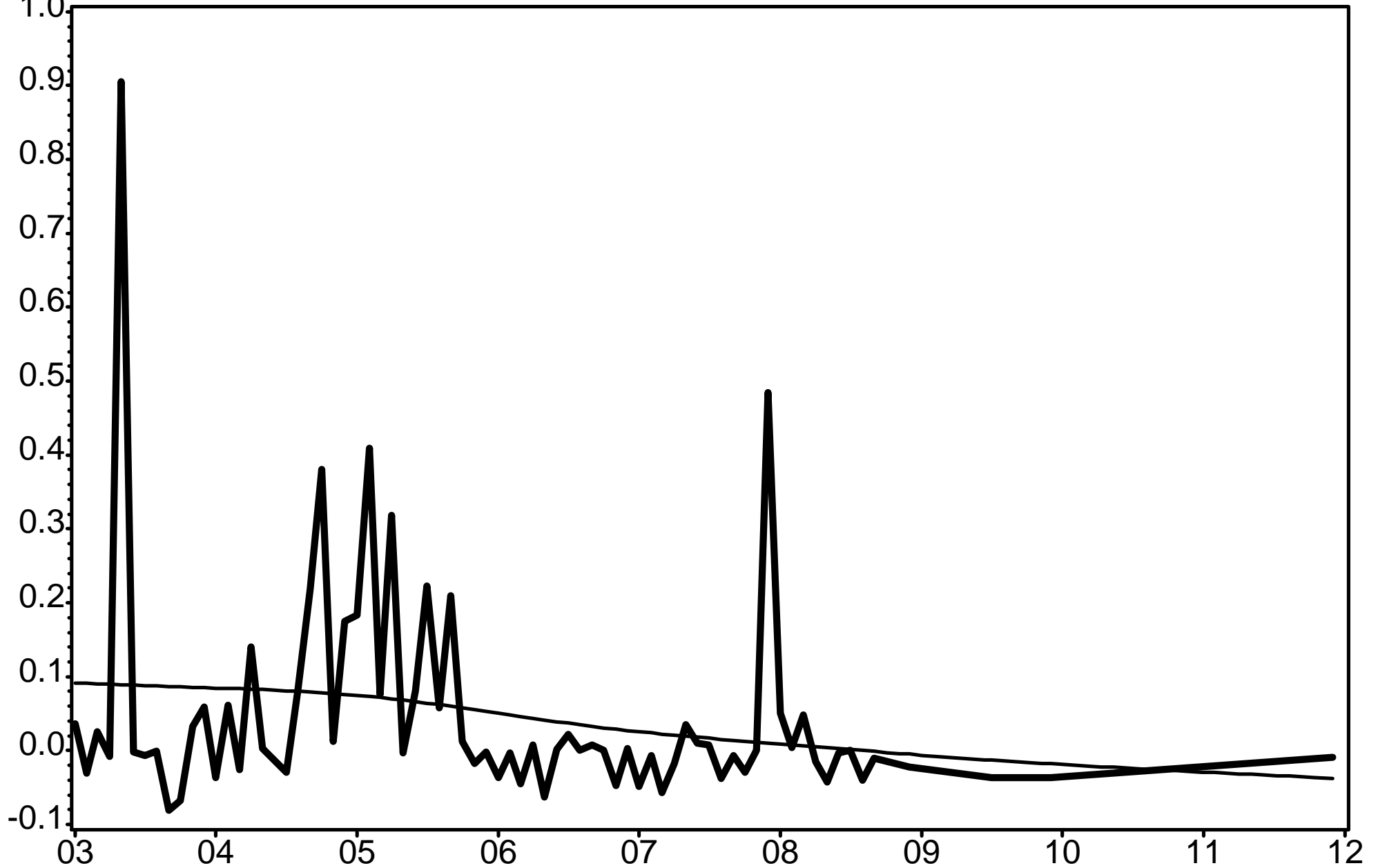
Lower Lemon Bay Trends Appendix - Display 1032

Monthly Data Time Series

for Surface Total Phosphorous in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

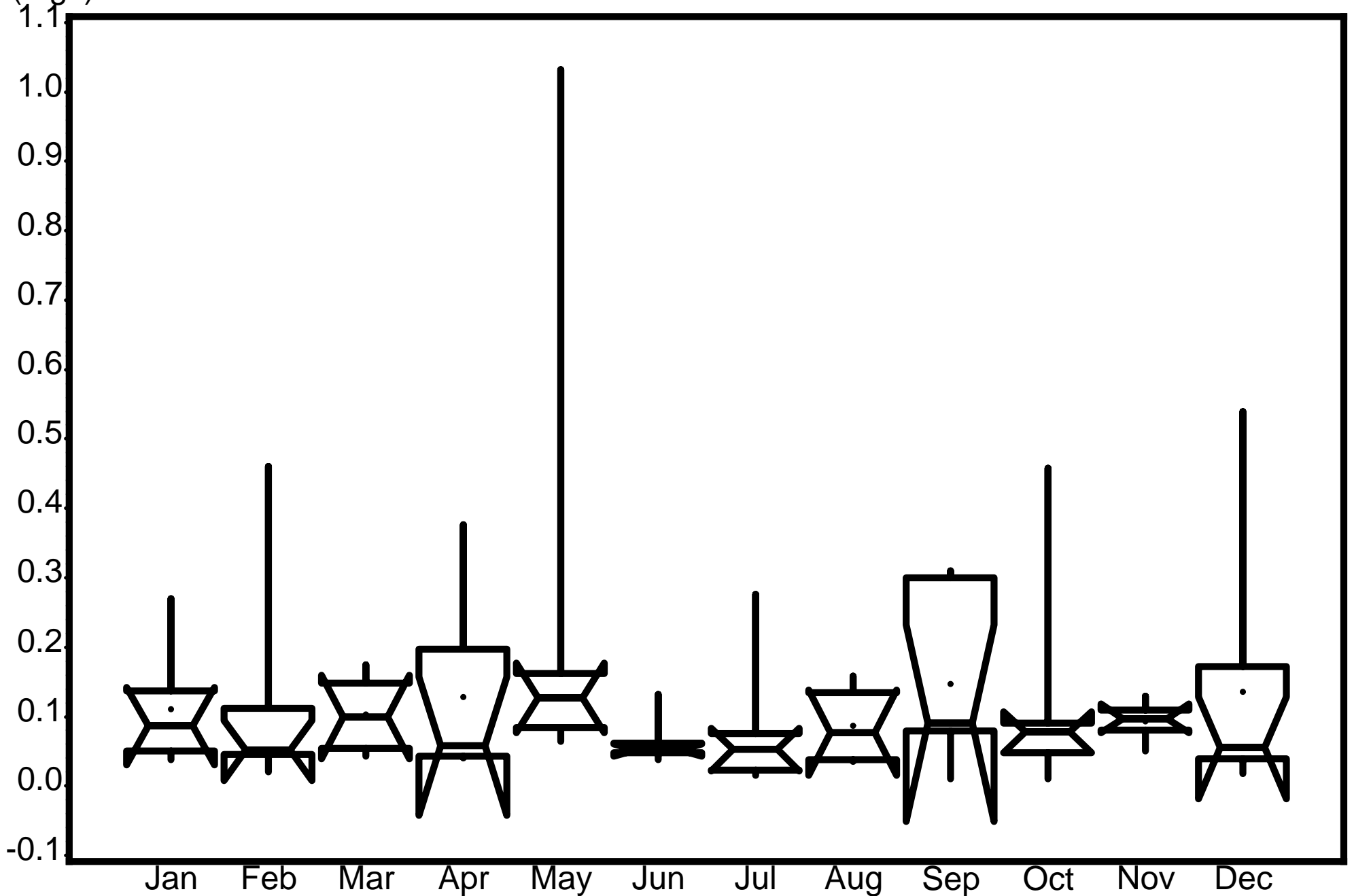


Lower Lemon Bay Trends Appendix - Display 1033

Seasonal Univariate Statistics

for Surface Total Phosphorous in Lower Lemon Bay

TP_mgl
(mg/l)



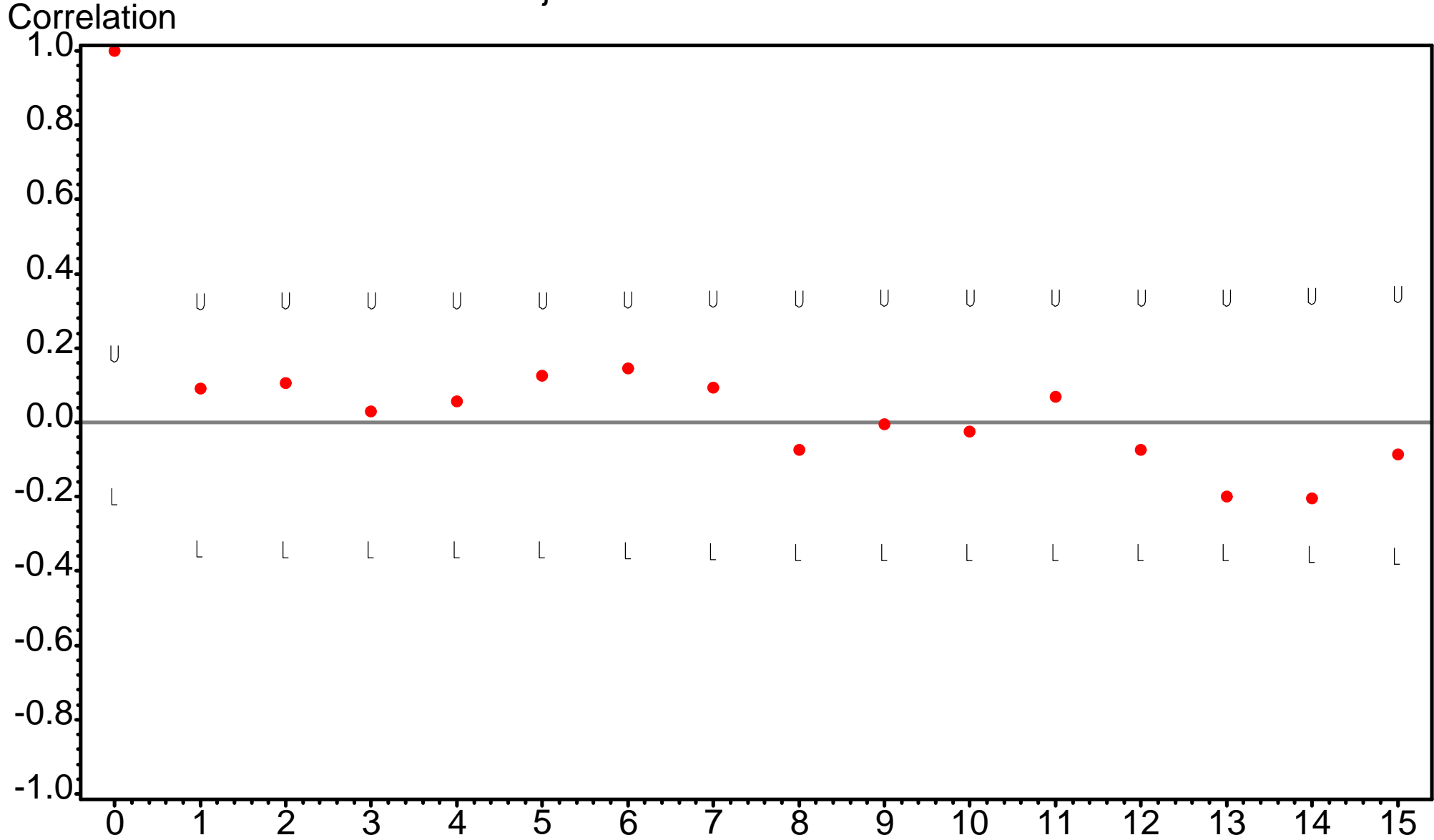
Lower Lemon Bay Trends Appendix - Display 1034
Autocorrelation Statistics for Surface Total Phosphorous in Lower Lemon Bay

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.091	0.167	0.333	-0.333
2	0.105	0.167	0.334	-0.334
3	0.030	0.168	0.335	-0.335
4	0.057	0.168	0.336	-0.336
5	0.125	0.168	0.336	-0.336
6	0.146	0.169	0.338	-0.338
7	0.094	0.170	0.340	-0.340
8	-0.073	0.170	0.341	-0.341
9	-0.006	0.171	0.342	-0.342
10	-0.025	0.171	0.342	-0.342
11	0.068	0.171	0.342	-0.342
12	-0.075	0.171	0.342	-0.342
13	-0.199	0.171	0.343	-0.343
14	-0.204	0.173	0.347	-0.347
15	-0.085	0.176	0.351	-0.351

Lower Lemon Bay Trends Appendix - Display 1035

Correlogram for Surface Total Phosphorous in Lower Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1036
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.192	0.017	0.017	-.009

Lower Lemon Bay Trends Appendix - Display 1037
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Lower Lemon Bay
Adjusted for Seasonal Medians

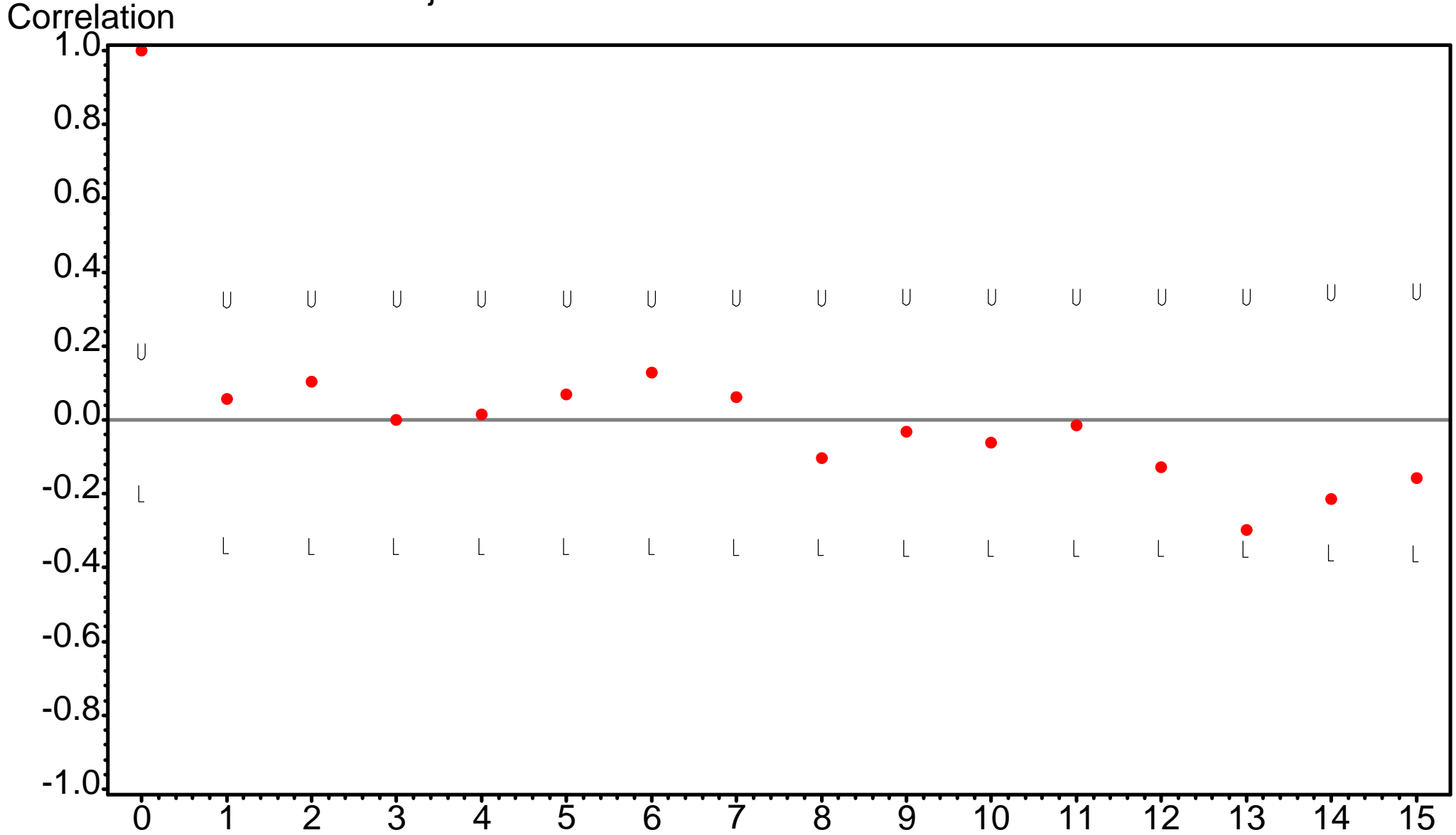
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29101	.00485898	0.057625	-0.011

Lower Lemon Bay Trends Appendix - Display 1039
Autocorrelation Statistics for Surface Total Phosphorous in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.057	0.167	0.333	-0.333
2	0.104	0.167	0.334	-0.334
3	0.000	0.167	0.335	-0.335
4	0.014	0.167	0.335	-0.335
5	0.069	0.167	0.335	-0.335
6	0.127	0.168	0.335	-0.335
7	0.061	0.169	0.337	-0.337
8	-0.104	0.169	0.338	-0.338
9	-0.032	0.169	0.339	-0.339
10	-0.062	0.169	0.339	-0.339
11	-0.014	0.170	0.339	-0.339
12	-0.128	0.170	0.339	-0.339
13	-0.297	0.171	0.341	-0.341
14	-0.213	0.175	0.351	-0.351
15	-0.157	0.178	0.355	-0.355

Lower Lemon Bay Trends Appendix - Display 1040

Correlogram for Surface Total Phosphorous in Lower Lemon Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

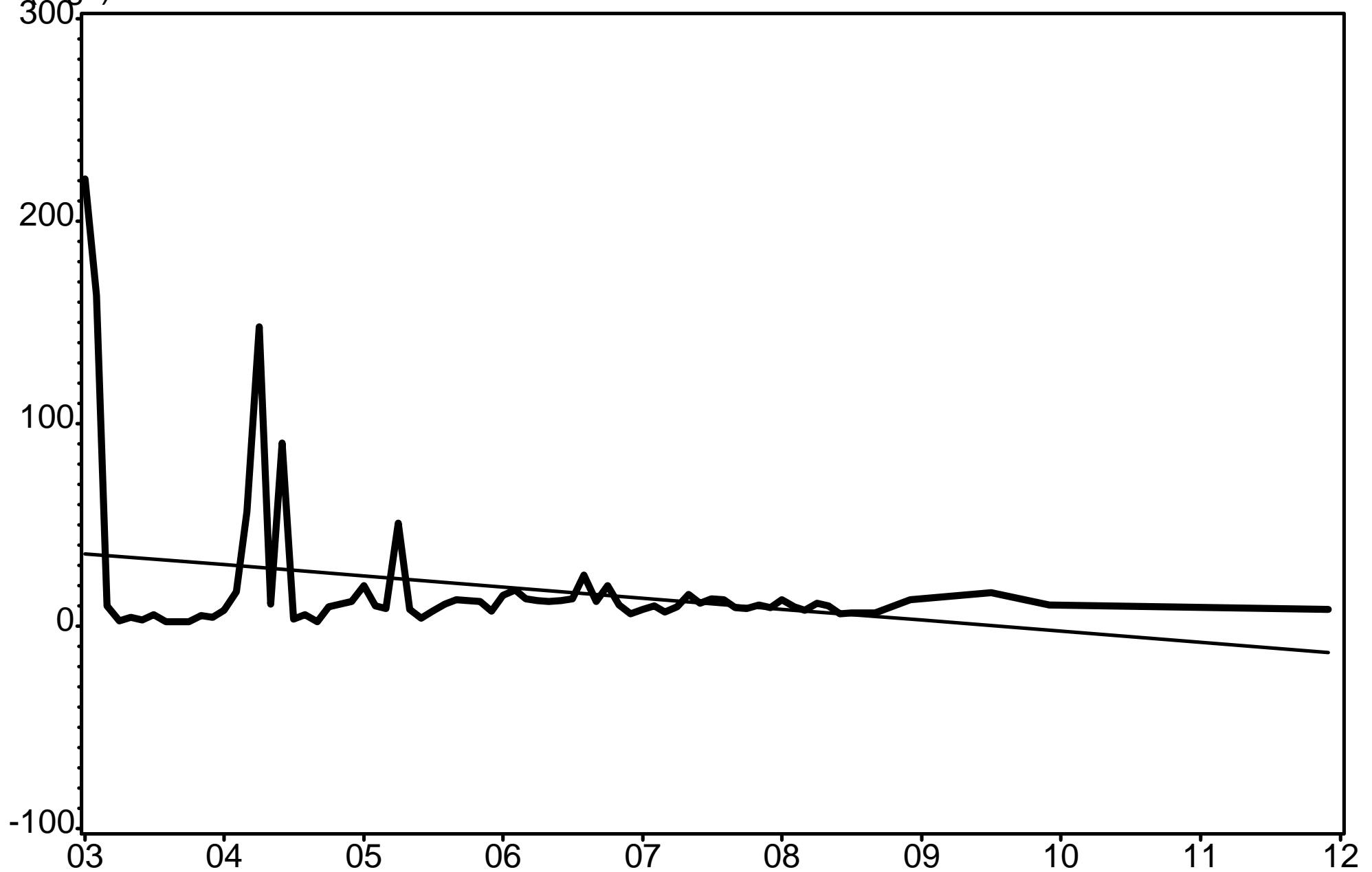
Lower Lemon Bay Trends Appendix - Display 1041

Monthly Data Time Series

for Surface Total Suspended Solids in Lower Lemon Bay

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



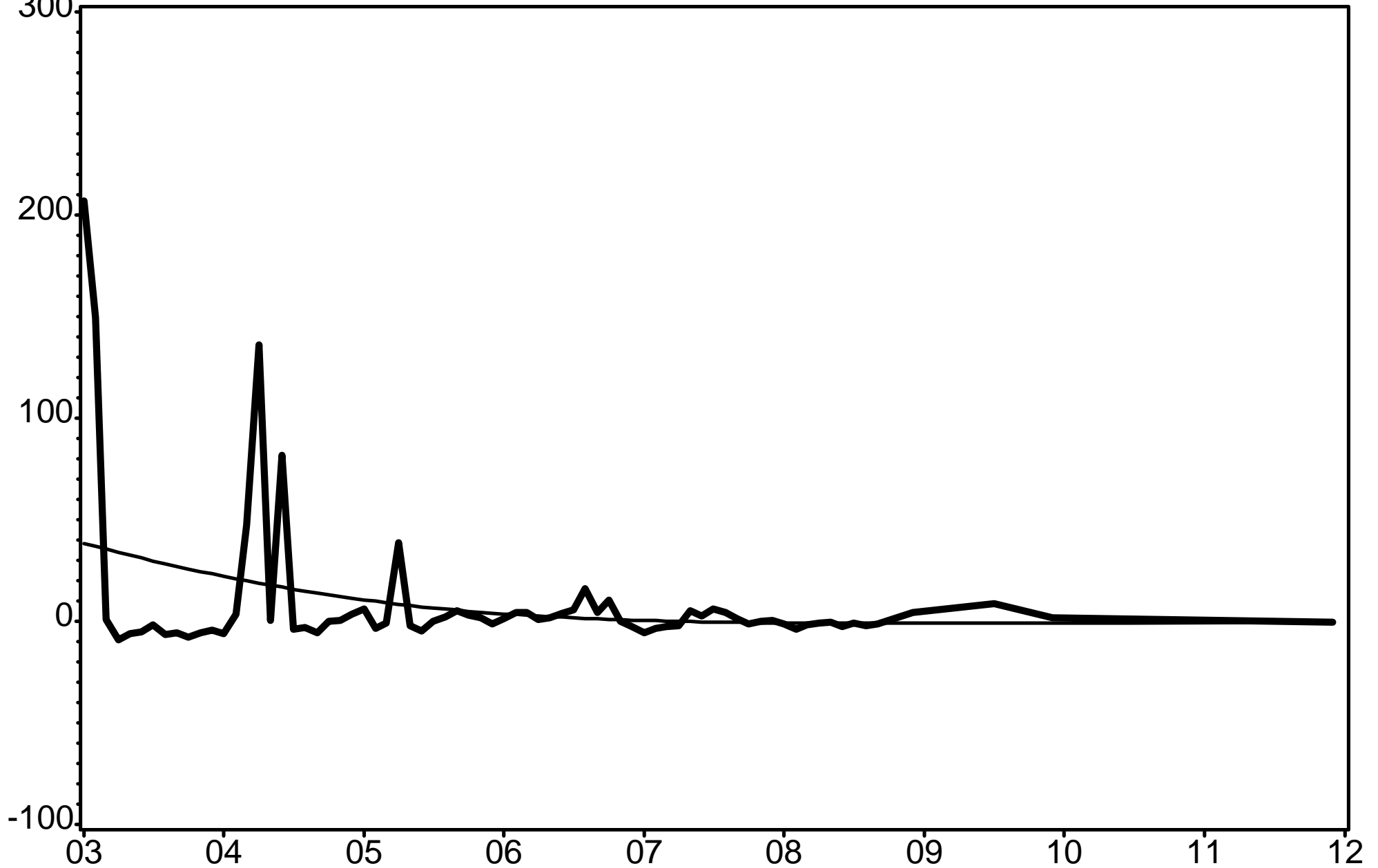
Lower Lemon Bay Trends Appendix - Display 1042

Monthly Data Time Series

for Surface Total Suspended Solids in Lower Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

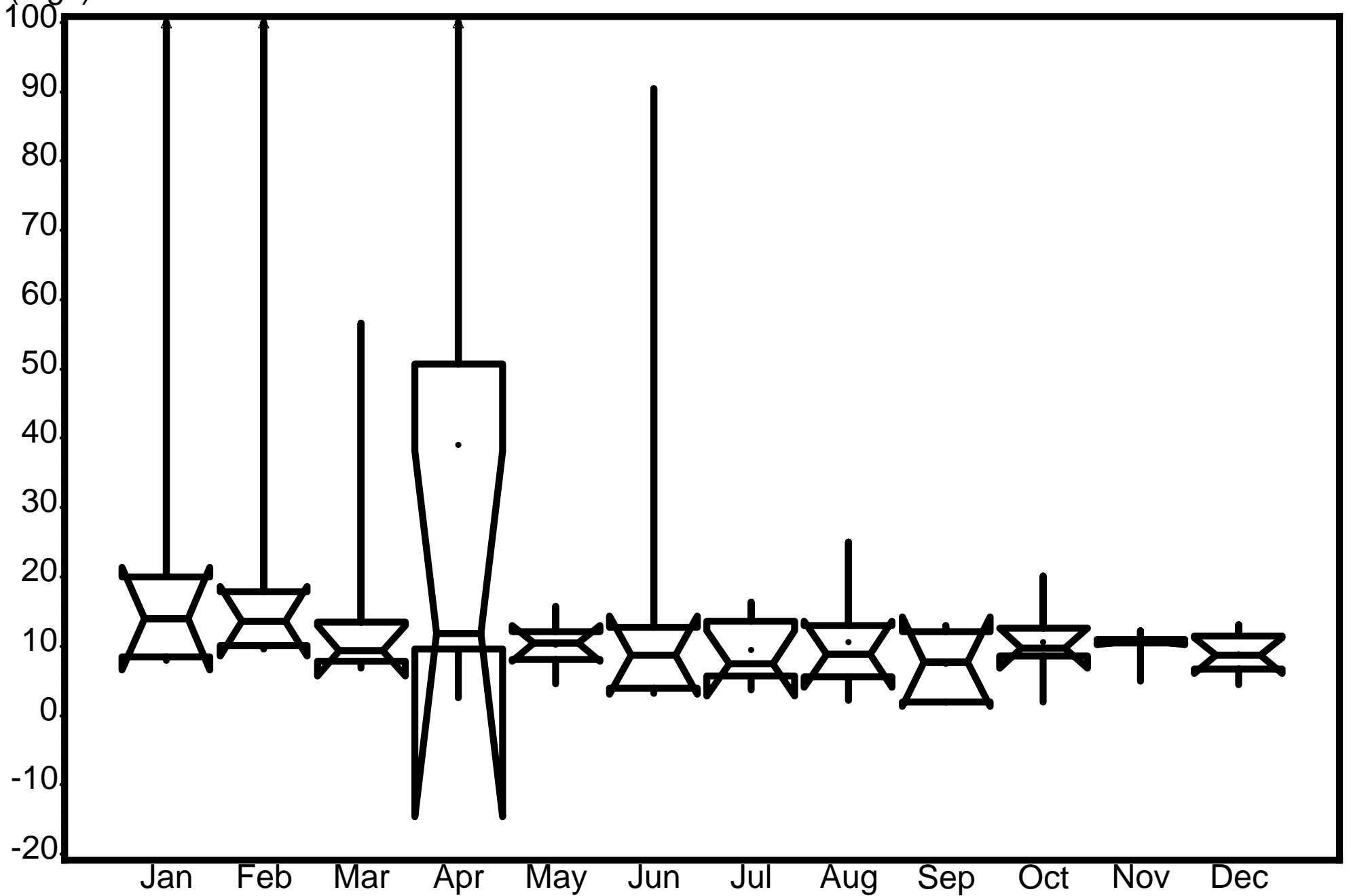


Lower Lemon Bay Trends Appendix - Display 1043

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Lower Lemon Bay

TSS_mgl
(mg/l)



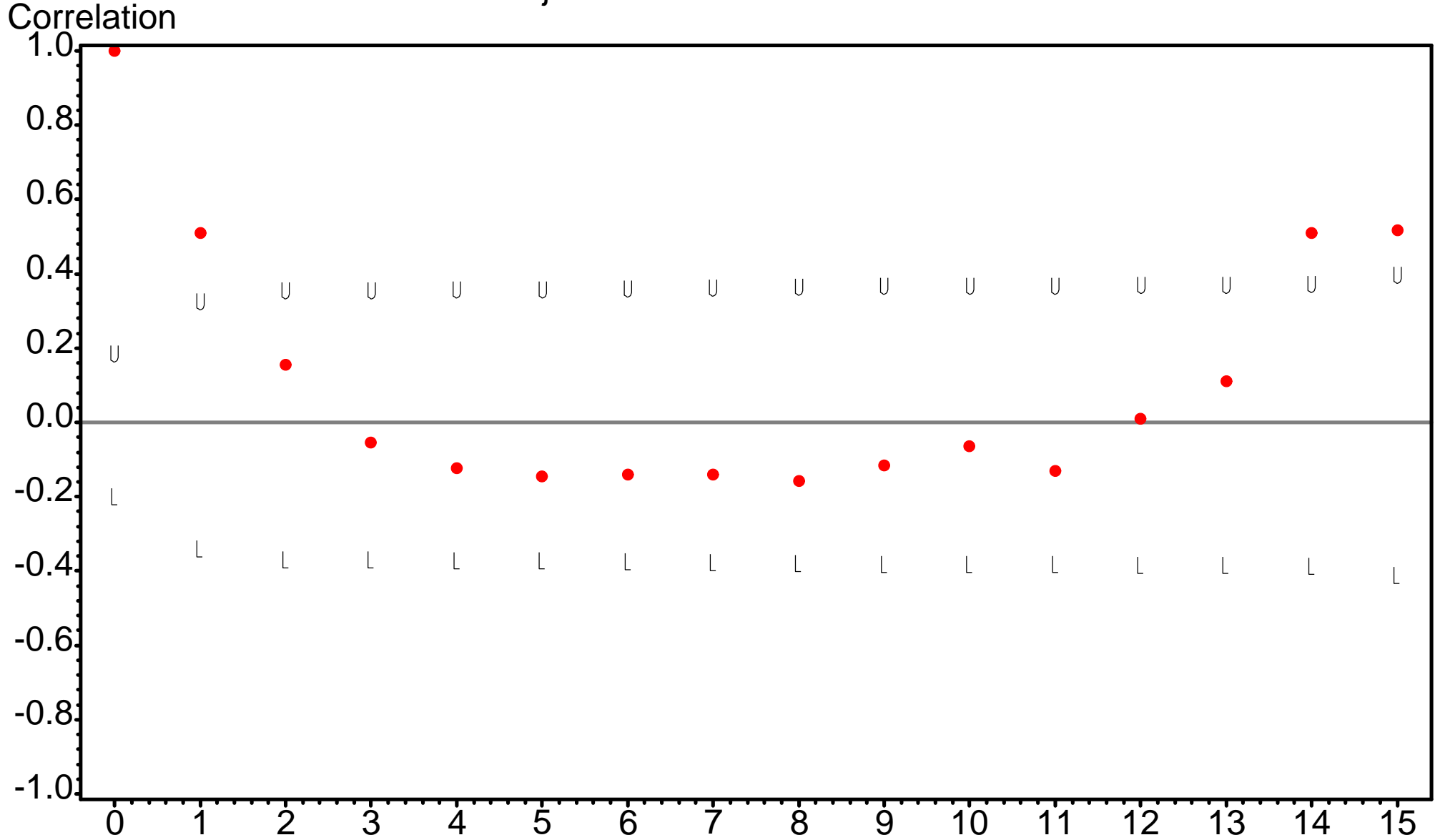
Lower Lemon Bay Trends Appendix - Display 1044
Autocorrelation Statistics for Surface Total Suspended Solids in Lower Lemon Bay

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.510	0.167	0.333	-0.333
2	0.154	0.181	0.361	-0.361
3	-0.055	0.182	0.363	-0.363
4	-0.122	0.182	0.364	-0.364
5	-0.144	0.183	0.365	-0.365
6	-0.140	0.184	0.367	-0.367
7	-0.141	0.185	0.369	-0.369
8	-0.157	0.186	0.371	-0.371
9	-0.115	0.187	0.374	-0.374
10	-0.063	0.188	0.375	-0.375
11	-0.131	0.188	0.375	-0.375
12	0.009	0.189	0.377	-0.377
13	0.111	0.189	0.377	-0.377
14	0.509	0.189	0.378	-0.378
15	0.518	0.201	0.403	-0.403

Lower Lemon Bay Trends Appendix - Display 1045

Correlogram for Surface Total Suspended Solids in Lower Lemon Bay

Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1046
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.052	0.52	0.52	0.26

Lower Lemon Bay Trends Appendix - Display 1047
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Lower Lemon Bay
Adjusted for Seasonal Medians

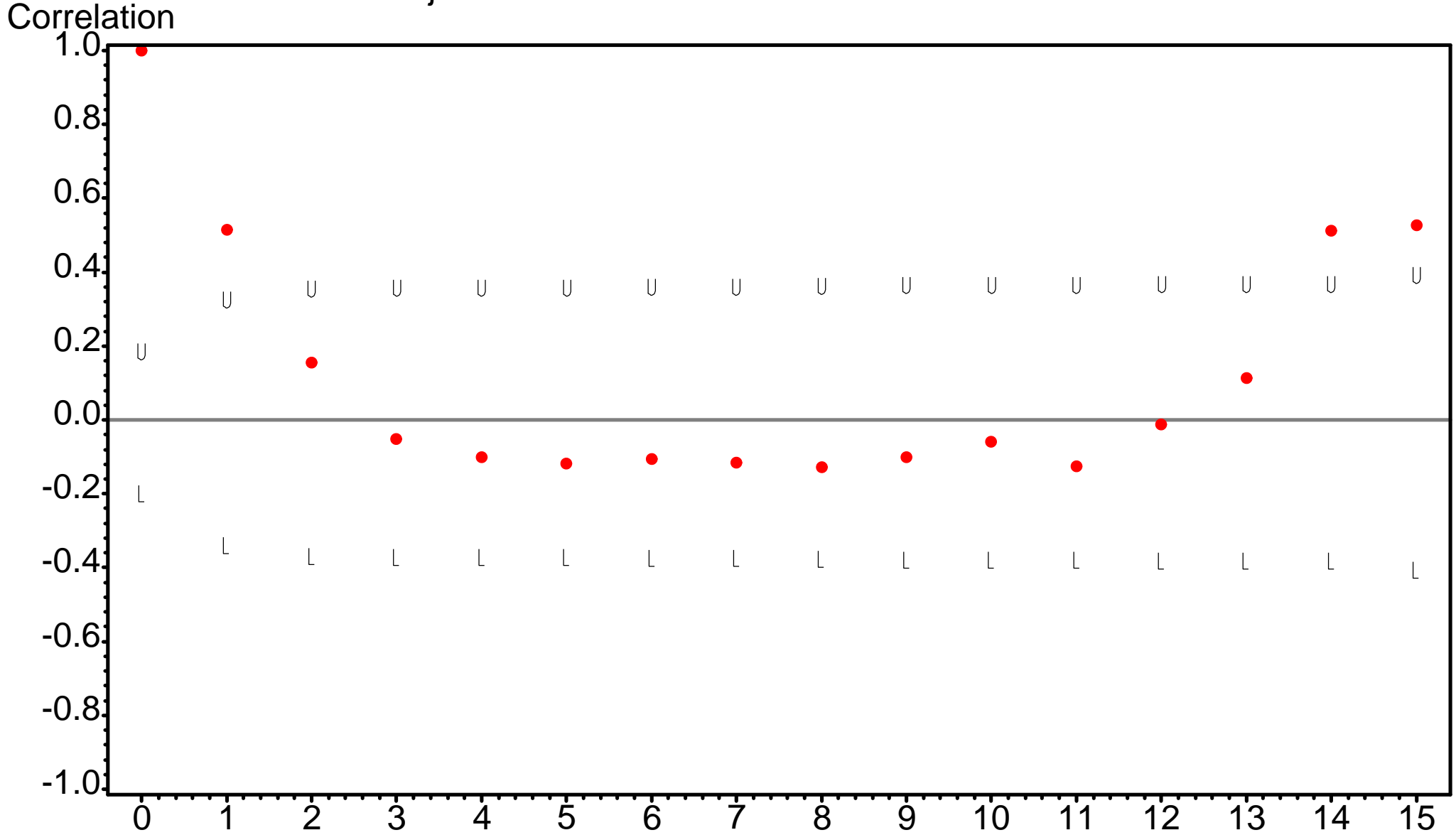
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.095238	0.37595	0.52151	0.399

Lower Lemon Bay Trends Appendix - Display 1049
Autocorrelation Statistics for Surface Total Suspended Solids in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.514	0.167	0.333	-0.333
2	0.155	0.181	0.362	-0.362
3	-0.051	0.182	0.364	-0.364
4	-0.102	0.182	0.364	-0.364
5	-0.119	0.183	0.365	-0.365
6	-0.106	0.183	0.367	-0.367
7	-0.116	0.184	0.368	-0.368
8	-0.129	0.185	0.369	-0.369
9	-0.102	0.185	0.371	-0.371
10	-0.059	0.186	0.372	-0.372
11	-0.125	0.186	0.372	-0.372
12	-0.013	0.187	0.374	-0.374
13	0.113	0.187	0.374	-0.374
14	0.513	0.188	0.375	-0.375
15	0.527	0.200	0.400	-0.400

Lower Lemon Bay Trends Appendix - Display 1050

Correlogram for Surface Total Suspended Solids in Lower Lemon Bay Adjusted for Seasonal Median and Detrended

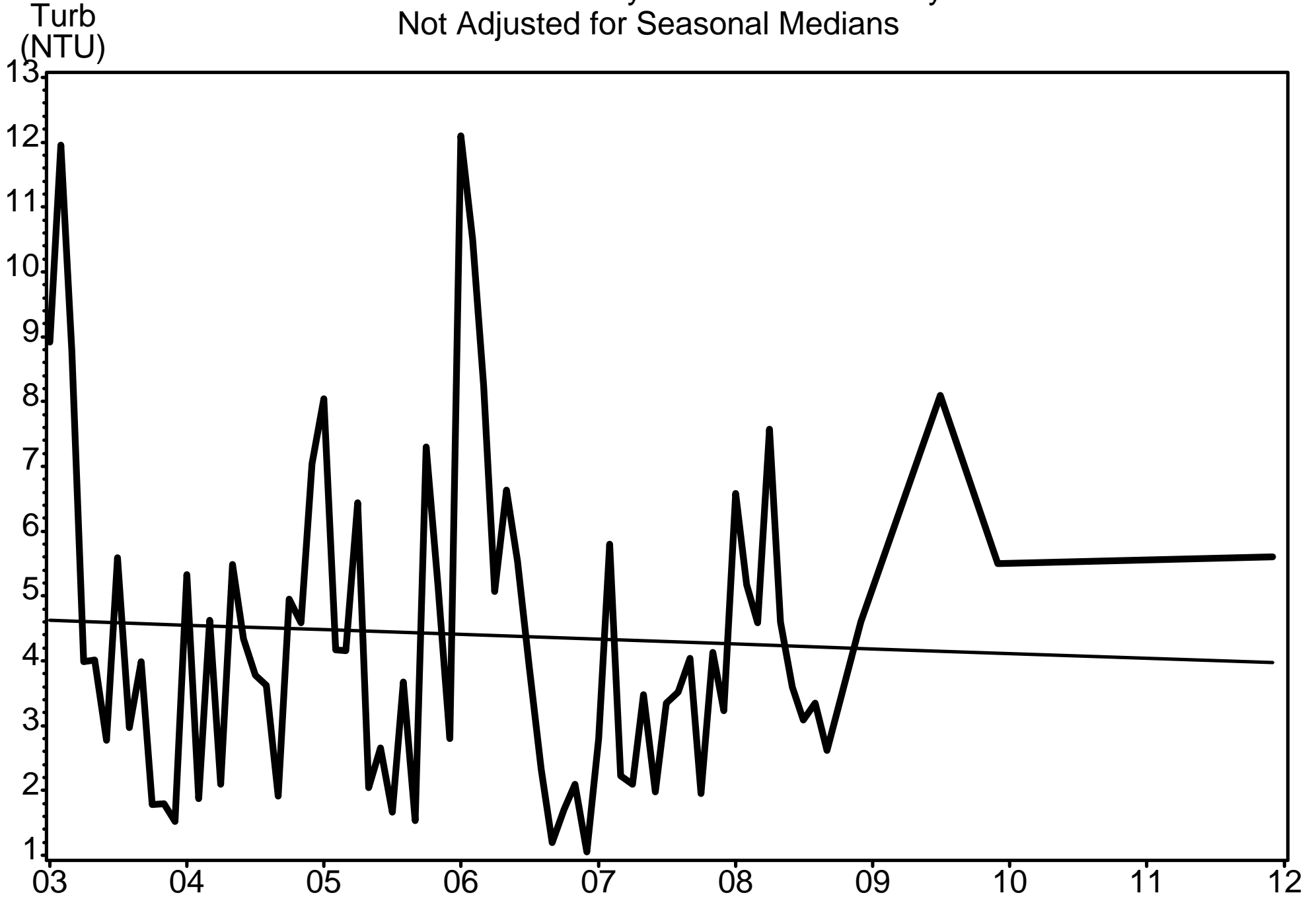


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1051

Monthly Data Time Series
for Surface Turbidity in Lower Lemon Bay
Not Adjusted for Seasonal Medians



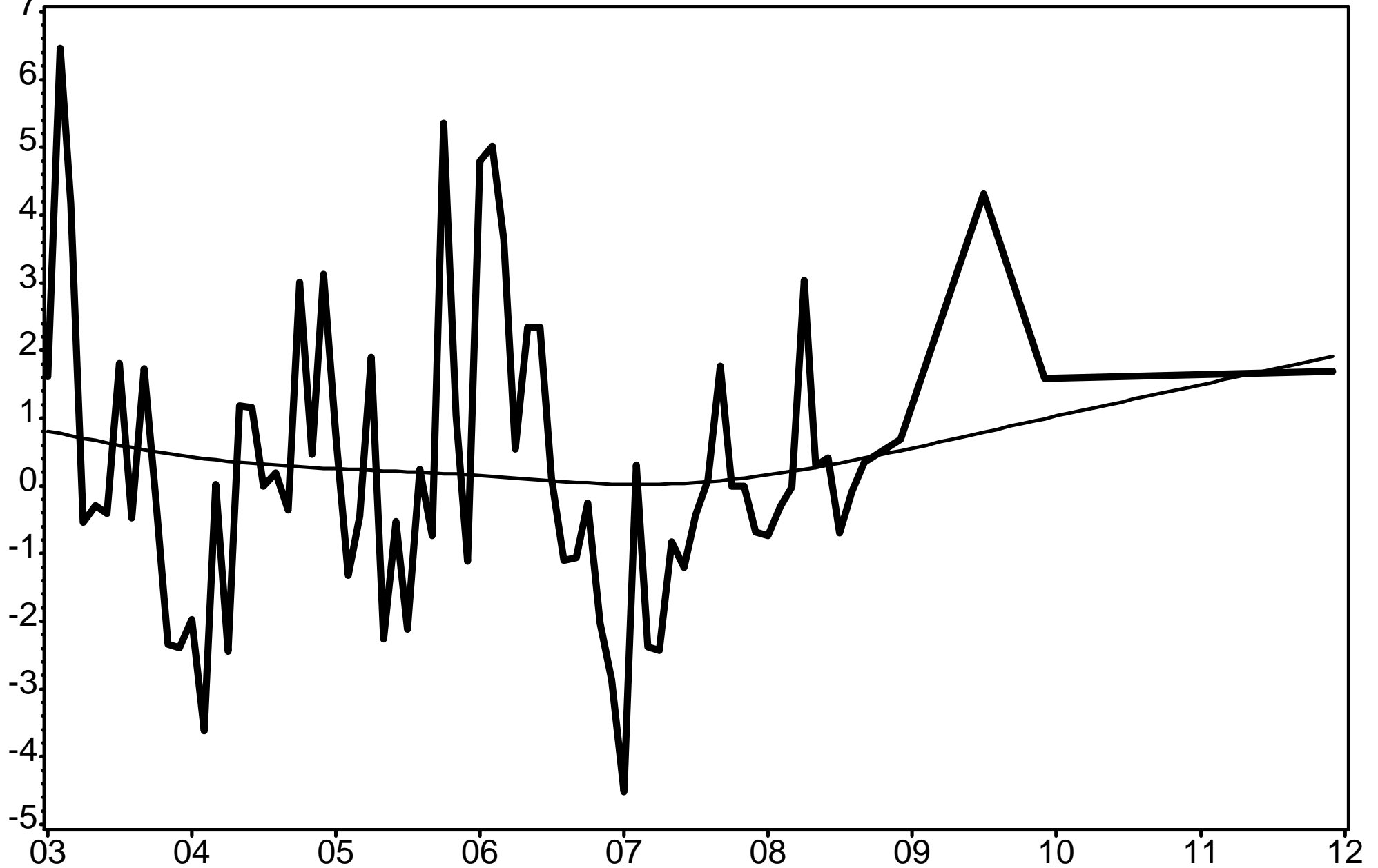
Lower Lemon Bay Trends Appendix - Display 1052

Monthly Data Time Series

for Surface Turbidity in Lower Lemon Bay

Adjusted for Seasonal Medians

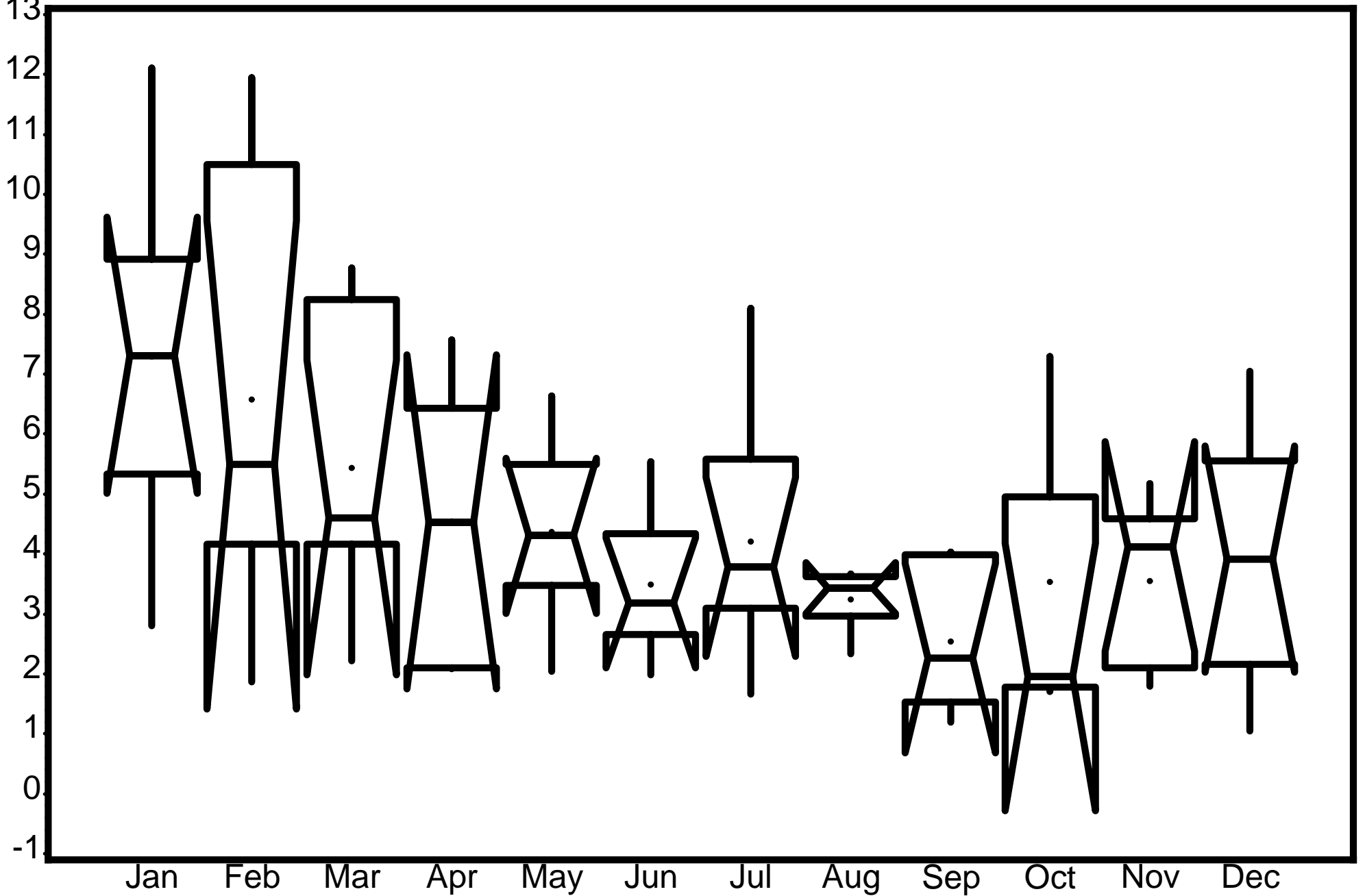
Adjusted
Turb
(NTU)



Lower Lemon Bay Trends Appendix - Display 1053

Seasonal Univariate Statistics for Surface Turbidity in Lower Lemon Bay

Turb
(NTU)

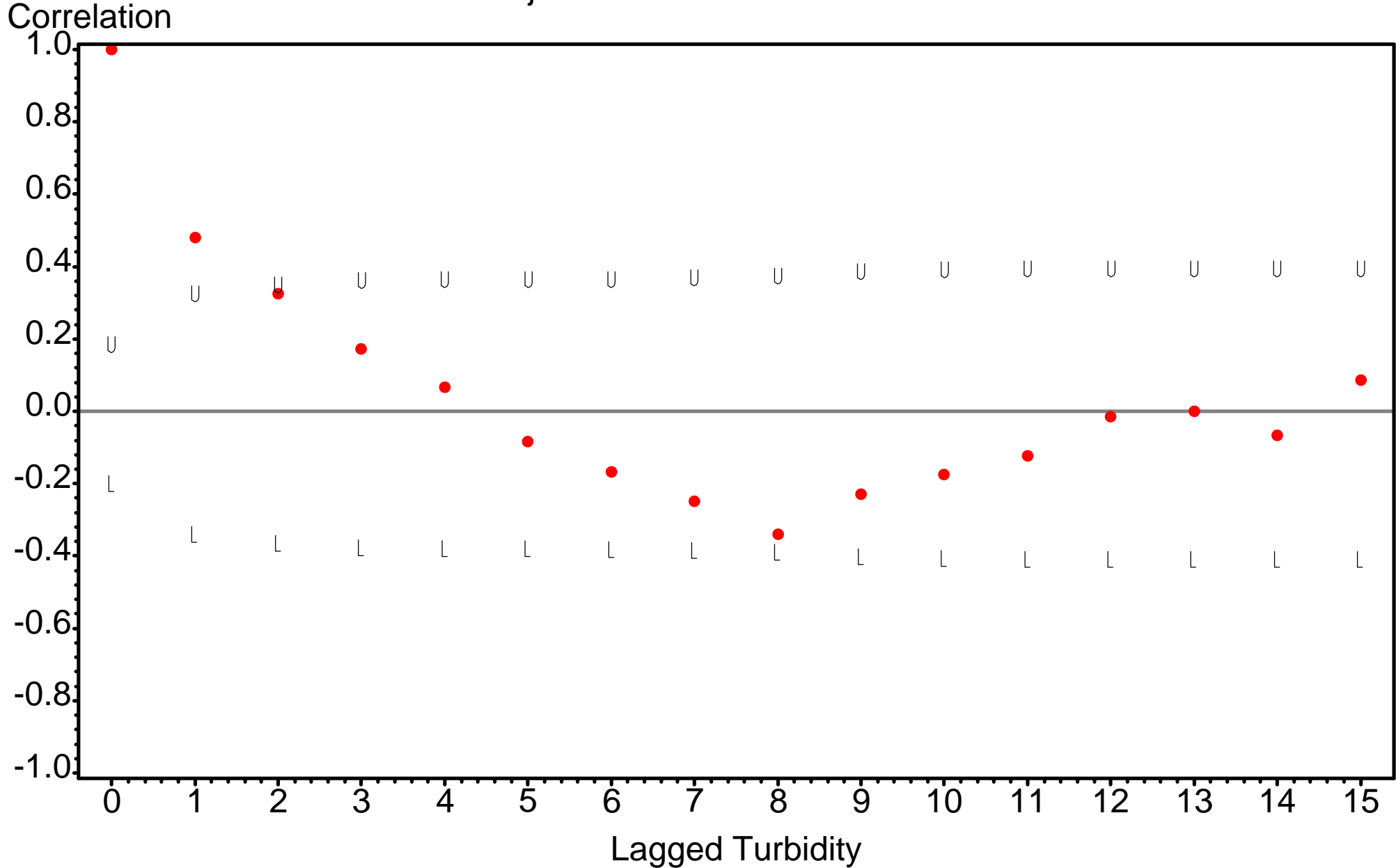


Lower Lemon Bay Trends Appendix - Display 1054
Autocorrelation Statistics for Surface Turbidity in Lower Lemon Bay

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.480	0.167	0.333	-0.333
2	0.324	0.179	0.358	-0.358
3	0.173	0.184	0.369	-0.369
4	0.067	0.186	0.372	-0.372
5	-0.083	0.186	0.372	-0.372
6	-0.168	0.186	0.373	-0.373
7	-0.248	0.188	0.376	-0.376
8	-0.340	0.191	0.382	-0.382
9	-0.230	0.196	0.393	-0.393
10	-0.174	0.199	0.398	-0.398
11	-0.124	0.200	0.401	-0.401
12	-0.014	0.201	0.402	-0.402
13	0.000	0.201	0.402	-0.402
14	-0.066	0.201	0.402	-0.402
15	0.086	0.201	0.402	-0.402

Lower Lemon Bay Trends Appendix - Display 1055

Correlogram for Surface Turbidity in Lower Lemon Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Lower Lemon Bay Trends Appendix - Display 1056
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Lower Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.003	0.977	0.977	-0.003

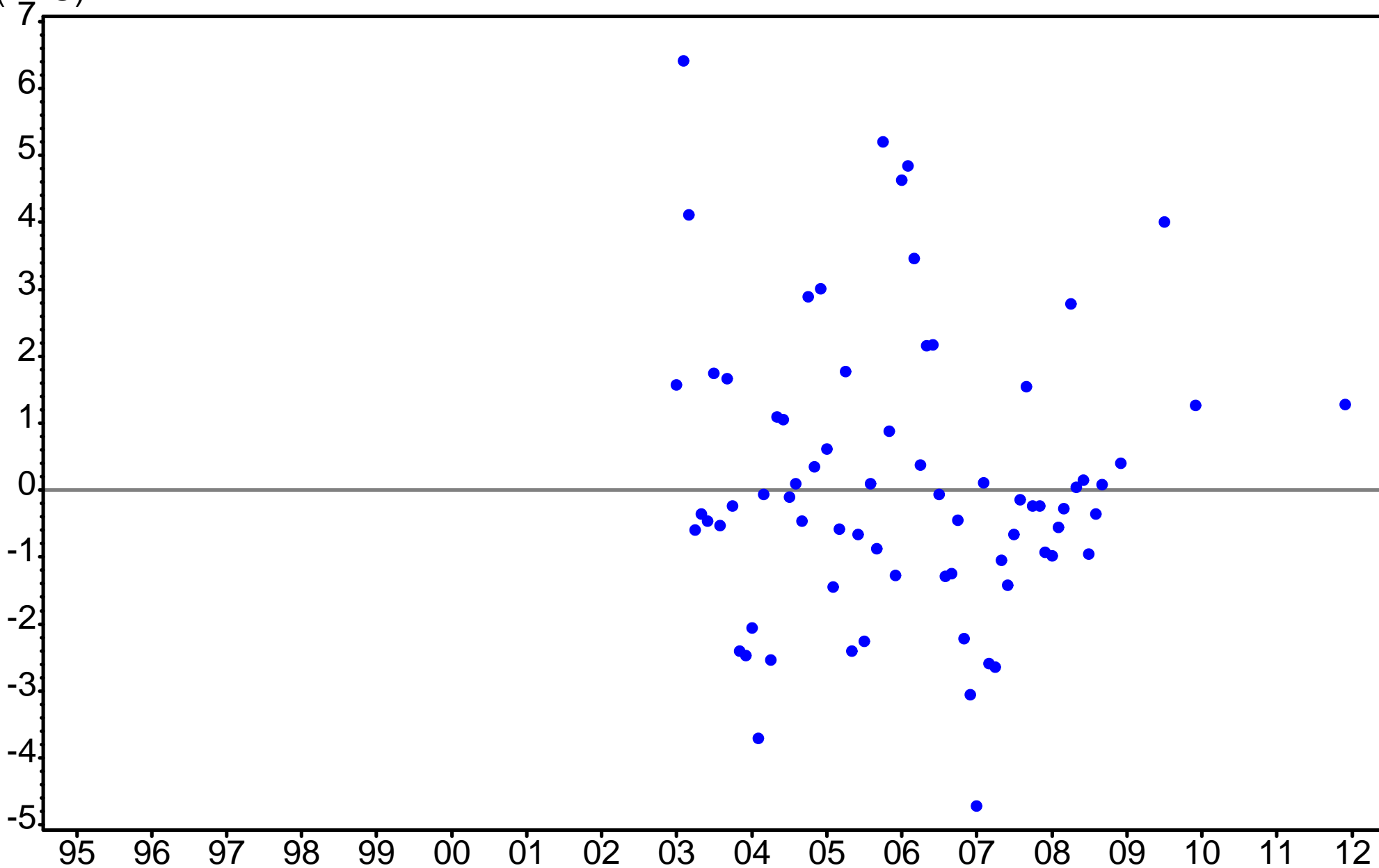
Lower Lemon Bay Trends Appendix - Display 1057
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Lower Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.026455	0.83520	0.78912	0.04075

Lower Lemon Bay Trends Appendix - Display 1058

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Lower Lemon Bay

Adjusted
(NTU)



Zero Reference Line Shown

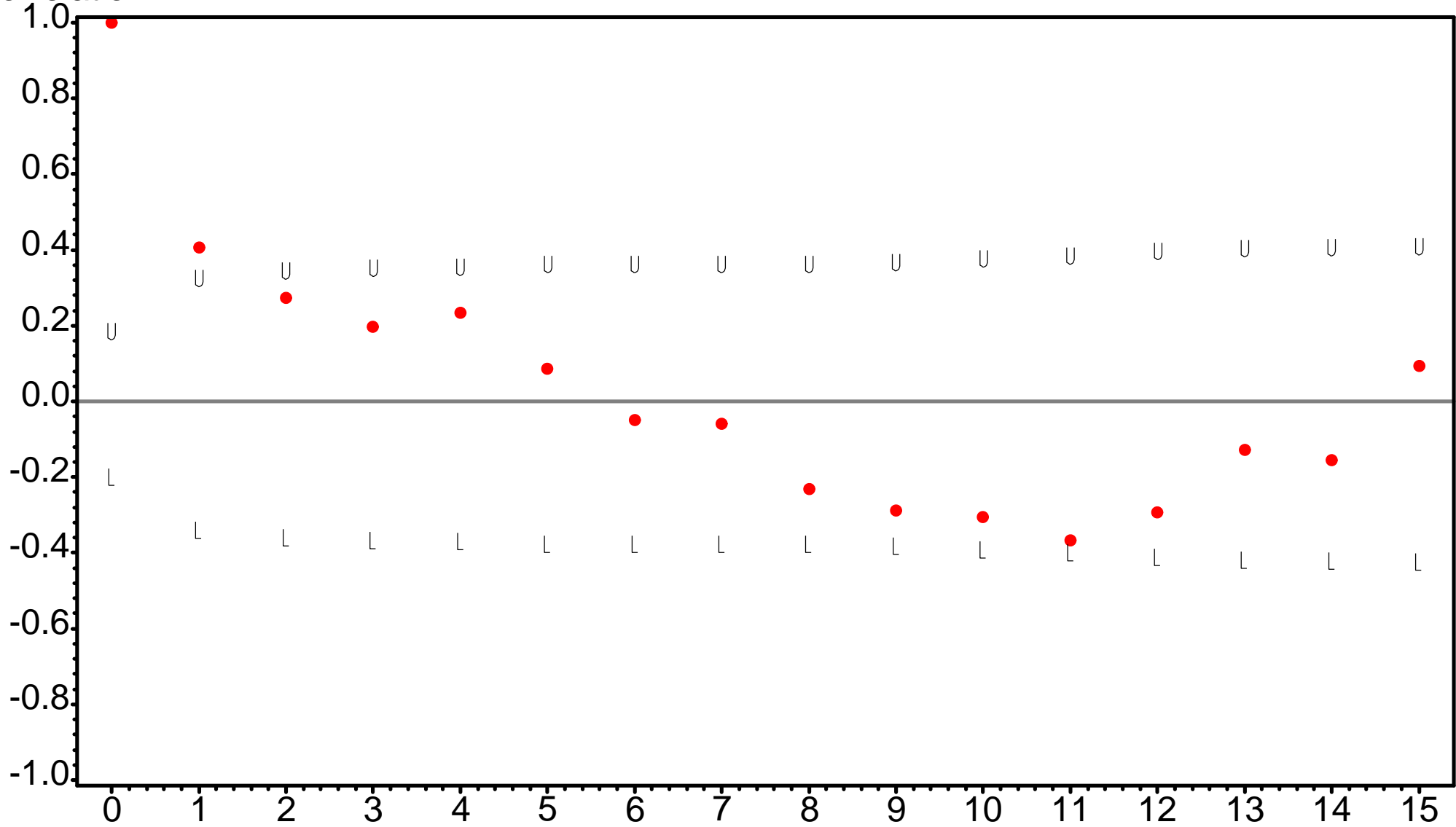
Lower Lemon Bay Trends Appendix - Display 1059
Autocorrelation Statistics for Surface Turbidity in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.406	0.167	0.333	-0.333
2	0.274	0.176	0.351	-0.351
3	0.197	0.180	0.359	-0.359
4	0.233	0.182	0.363	-0.363
5	0.087	0.184	0.369	-0.369
6	-0.050	0.185	0.369	-0.369
7	-0.058	0.185	0.370	-0.370
8	-0.231	0.185	0.370	-0.370
9	-0.288	0.188	0.375	-0.375
10	-0.305	0.192	0.383	-0.383
11	-0.366	0.196	0.392	-0.392
12	-0.293	0.202	0.405	-0.405
13	-0.127	0.206	0.412	-0.412
14	-0.155	0.207	0.414	-0.414
15	0.094	0.208	0.416	-0.416

Lower Lemon Bay Trends Appendix - Display 1060

Correlogram for Surface Turbidity in Lower Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Turbidity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

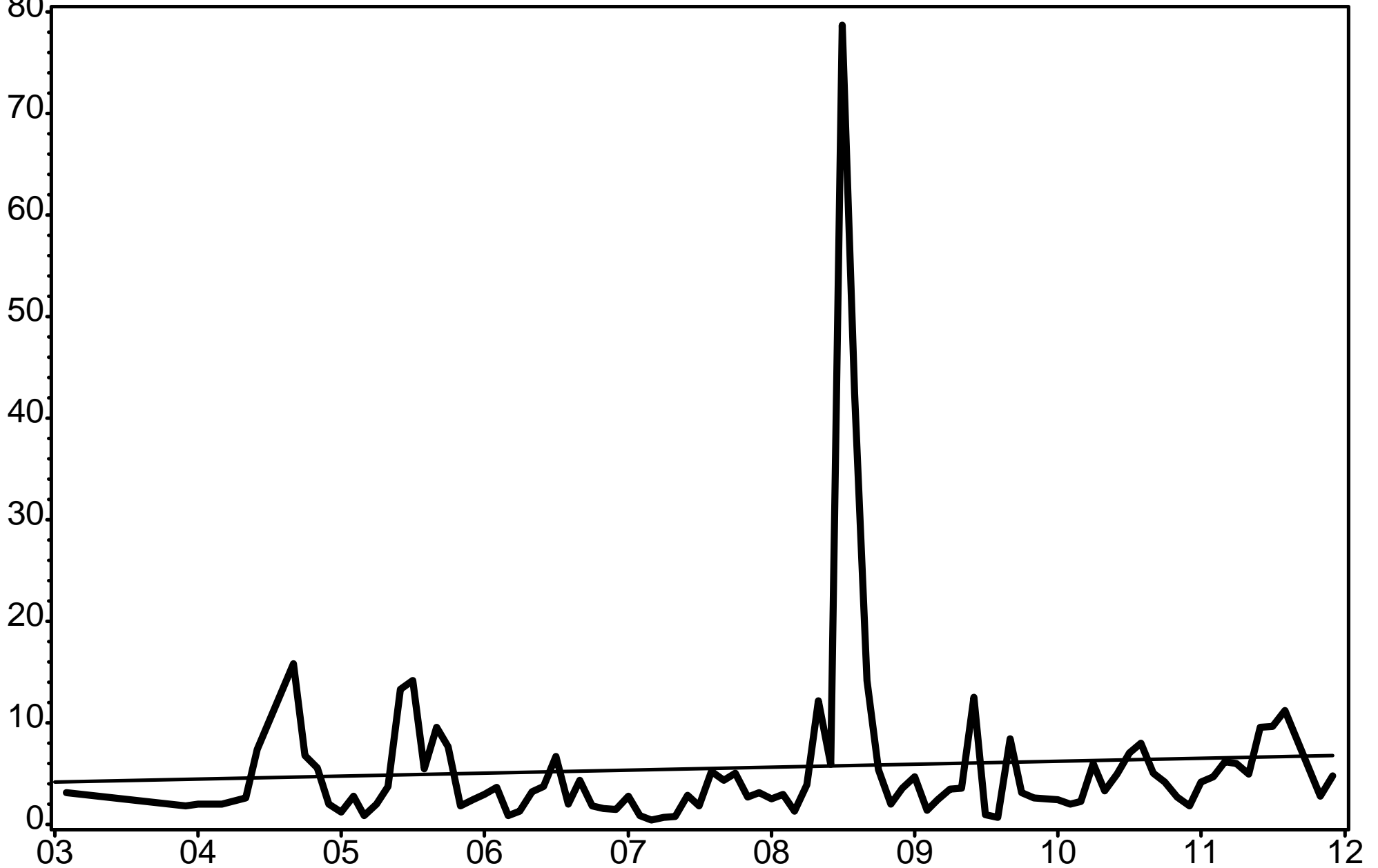
Matlacha Pass Trends Appendix - Display 1061

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Matlacha Pass

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



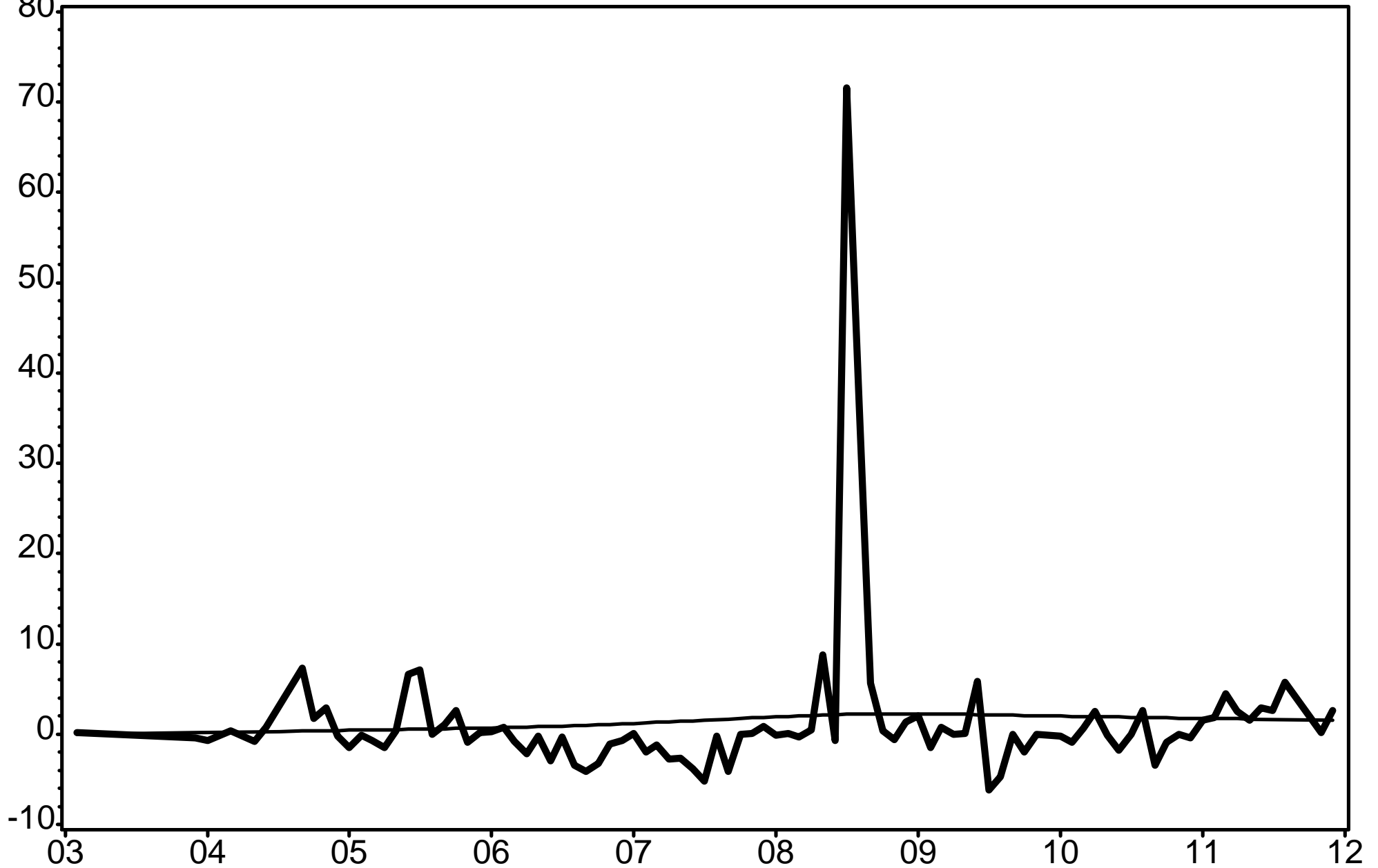
Matlacha Pass Trends Appendix - Display 1062

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

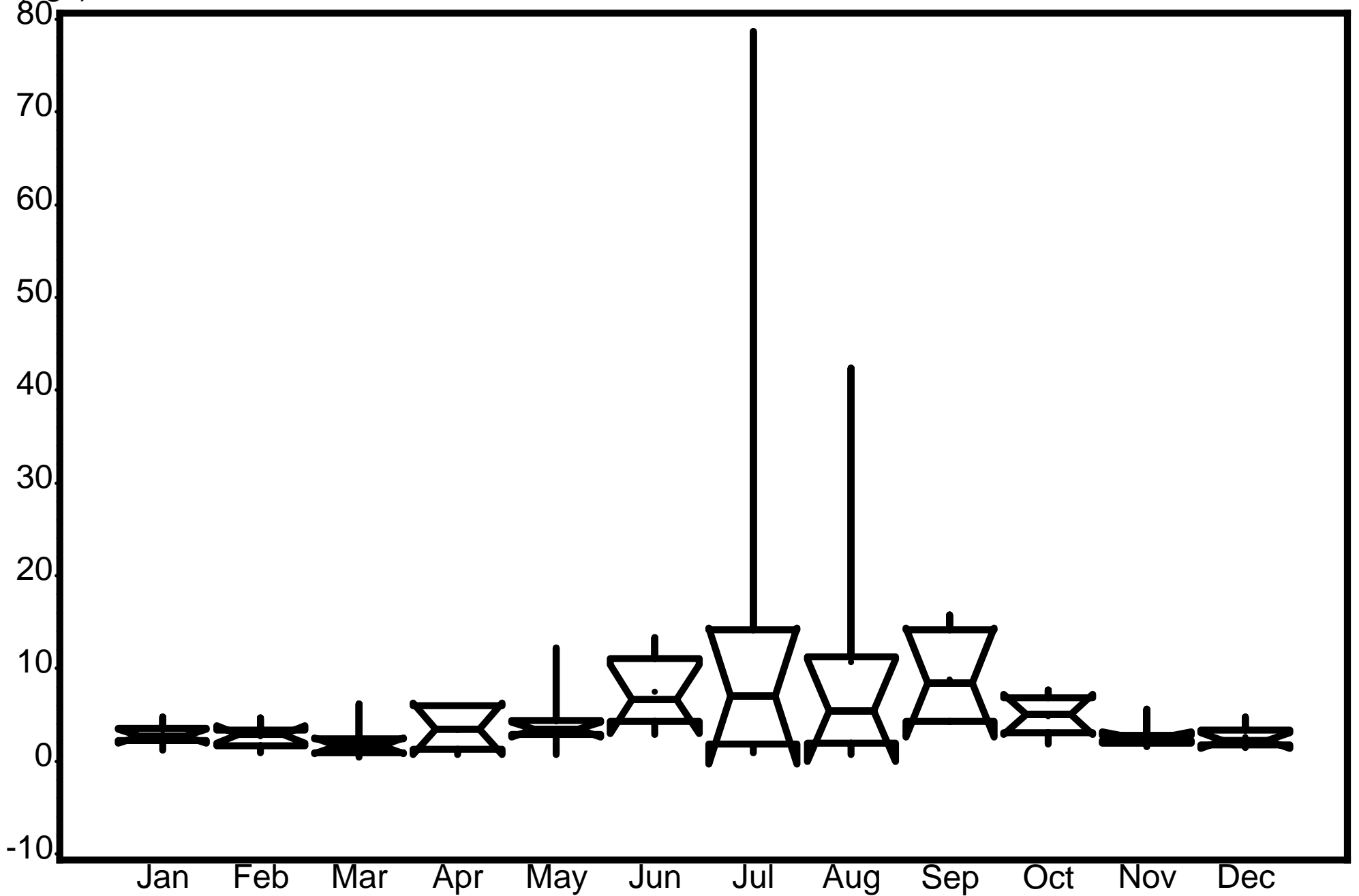


Matlacha Pass Trends Appendix - Display 1063

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Matlacha Pass

CHLAC_ugl
(ug/l)



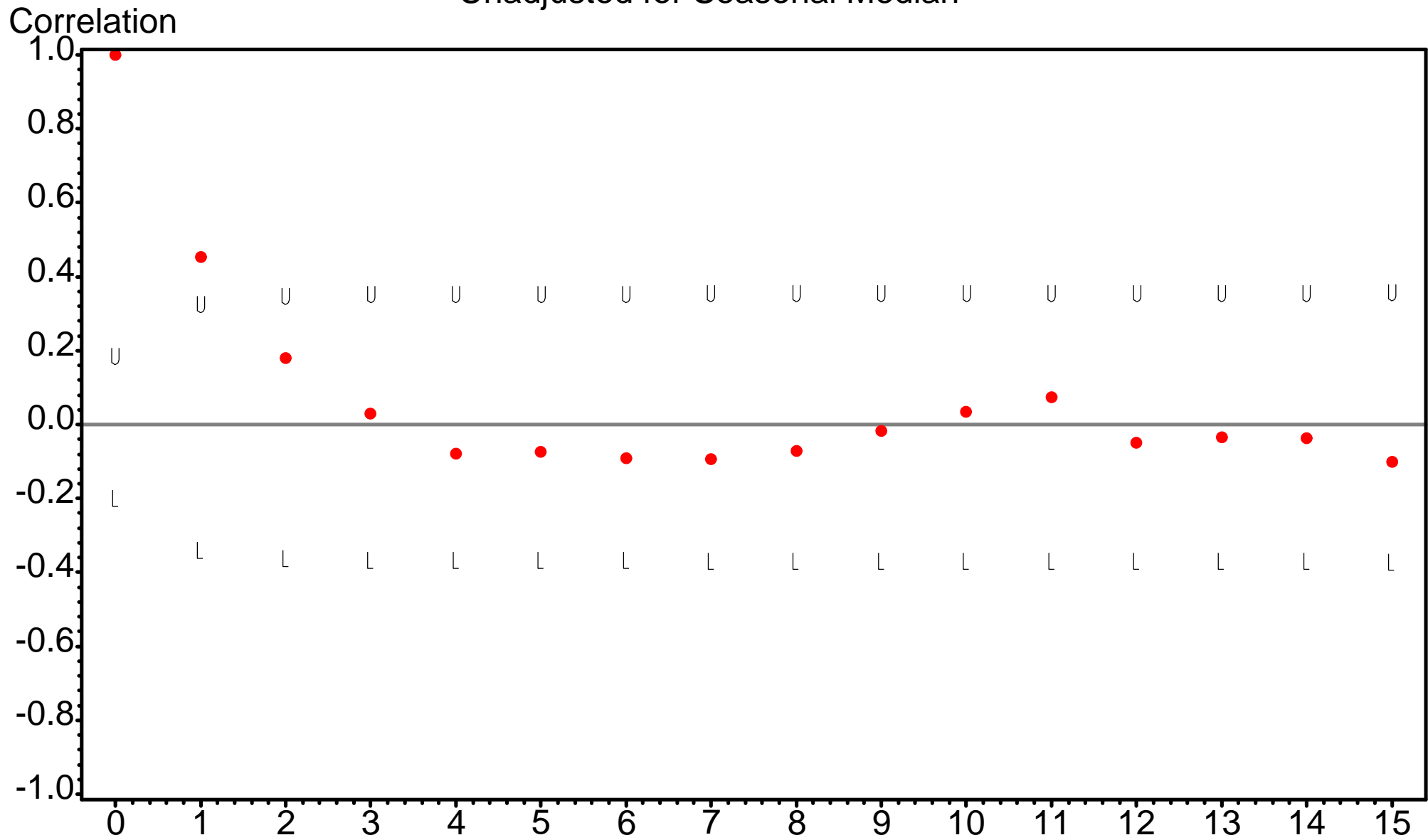
Matlacha Pass Trends Appendix - Display 1064
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Matlacha Pass

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.454	0.167	0.333	-0.333
2	0.179	0.178	0.355	-0.355
3	0.030	0.179	0.359	-0.359
4	-0.079	0.179	0.359	-0.359
5	-0.075	0.180	0.360	-0.360
6	-0.090	0.180	0.360	-0.360
7	-0.094	0.180	0.361	-0.361
8	-0.071	0.181	0.362	-0.362
9	-0.018	0.181	0.362	-0.362
10	0.034	0.181	0.362	-0.362
11	0.073	0.181	0.363	-0.363
12	-0.050	0.182	0.363	-0.363
13	-0.034	0.182	0.363	-0.363
14	-0.036	0.182	0.363	-0.363
15	-0.101	0.182	0.364	-0.364

Matlacha Pass Trends Appendix - Display 1065

Correlogram for Surface Chlorophyll-a (Corrected) in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1066
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.141	0.048	0.048	0.244

Matlacha Pass Trends Appendix - Display 1067
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.17276	0.050155	0.29773	0.202

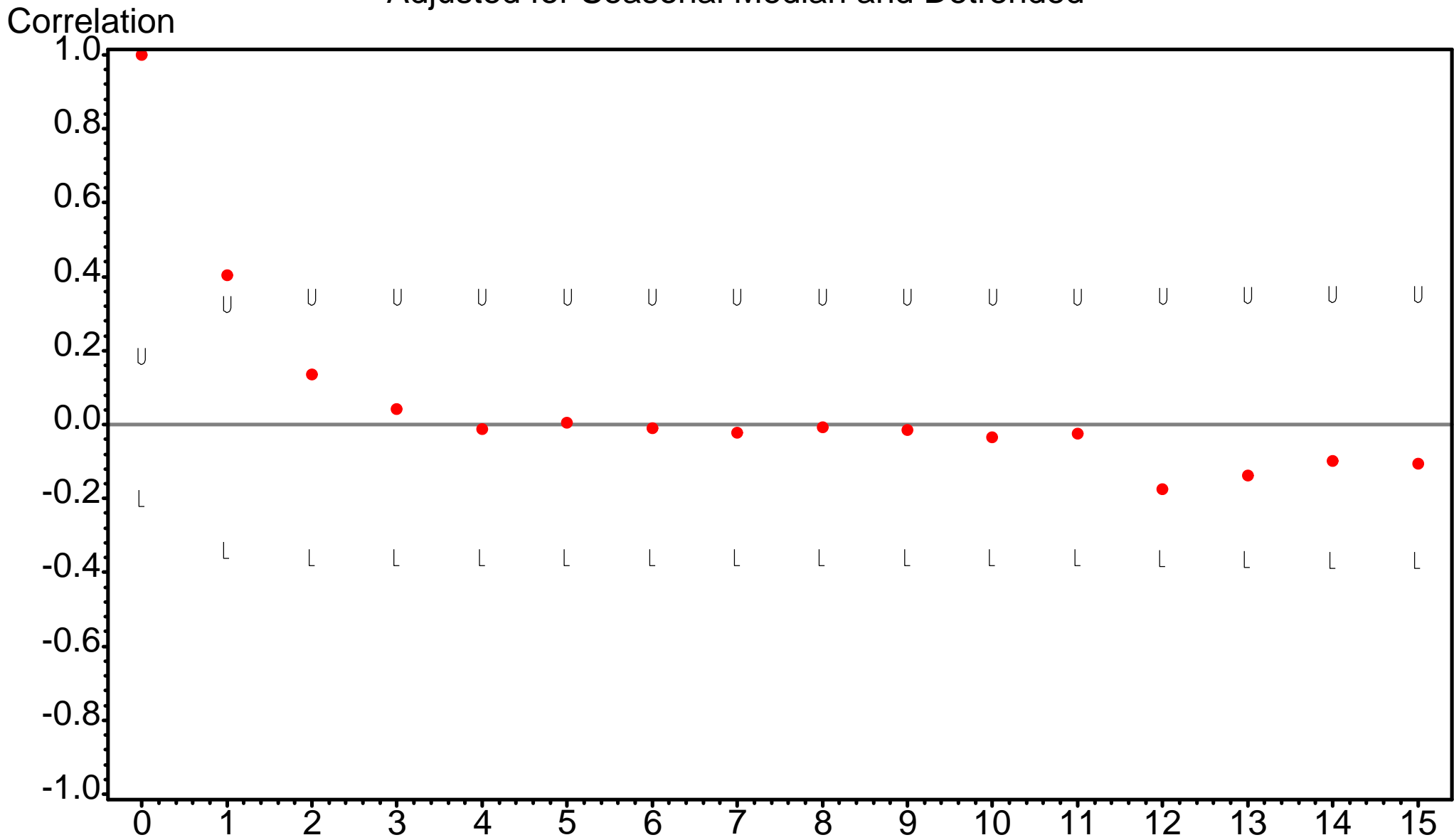
Matlacha Pass Trends Appendix - Display 1069
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.405	0.167	0.333	-0.333
2	0.136	0.176	0.351	-0.351
3	0.043	0.177	0.353	-0.353
4	-0.012	0.177	0.353	-0.353
5	0.006	0.177	0.353	-0.353
6	-0.011	0.177	0.353	-0.353
7	-0.021	0.177	0.353	-0.353
8	-0.008	0.177	0.353	-0.353
9	-0.015	0.177	0.353	-0.353
10	-0.034	0.177	0.353	-0.353
11	-0.024	0.177	0.353	-0.353
12	-0.176	0.177	0.354	-0.354
13	-0.137	0.178	0.357	-0.357
14	-0.099	0.179	0.359	-0.359
15	-0.106	0.180	0.360	-0.360

Matlacha Pass Trends Appendix - Display 1070

Correlogram for Surface Chlorophyll-a (Corrected) in Matlacha Pass

Adjusted for Seasonal Median and Detrended



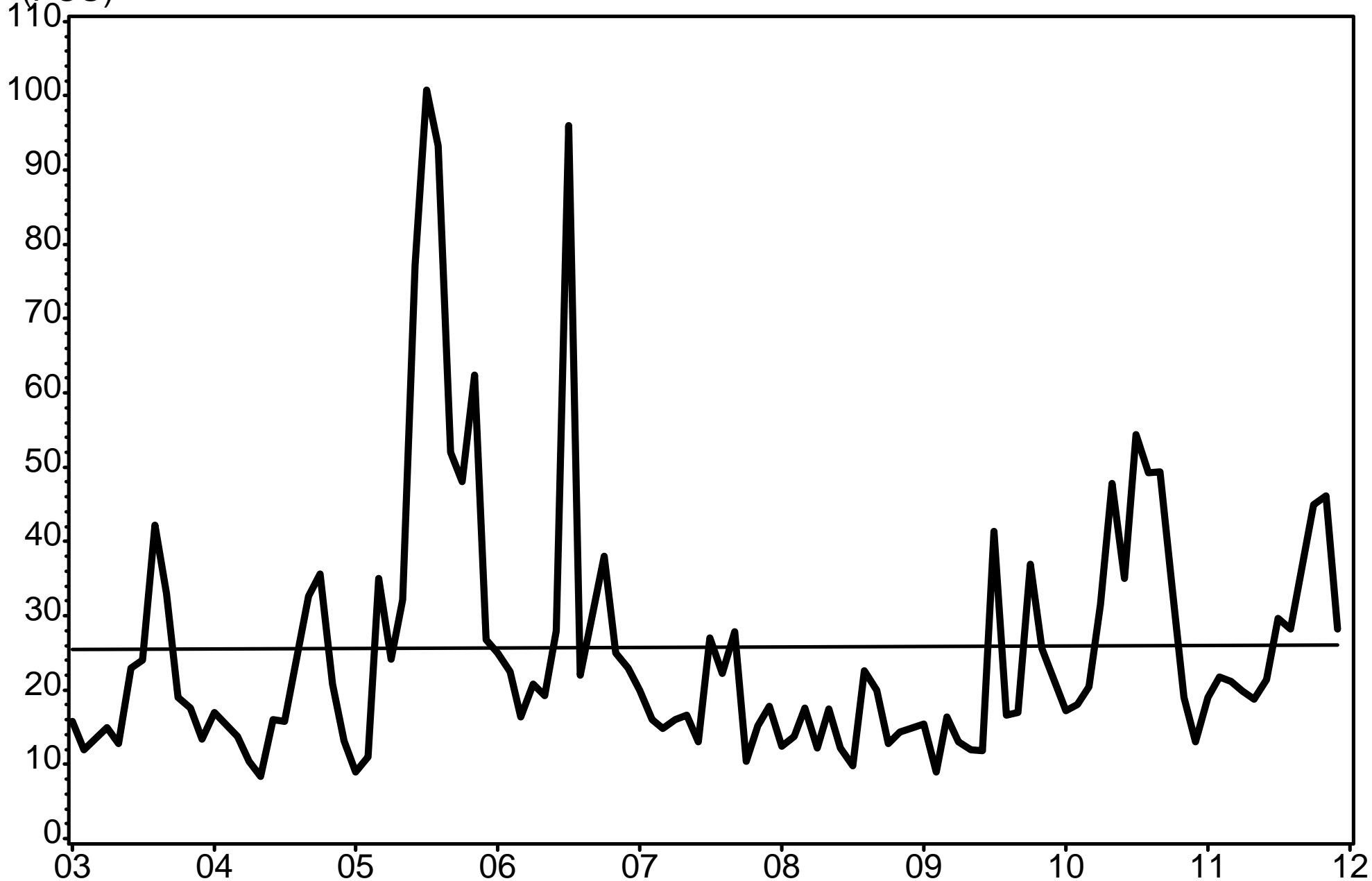
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1071

Monthly Data Time Series
for Surface Color in Matlacha Pass
Not Adjusted for Seasonal Medians

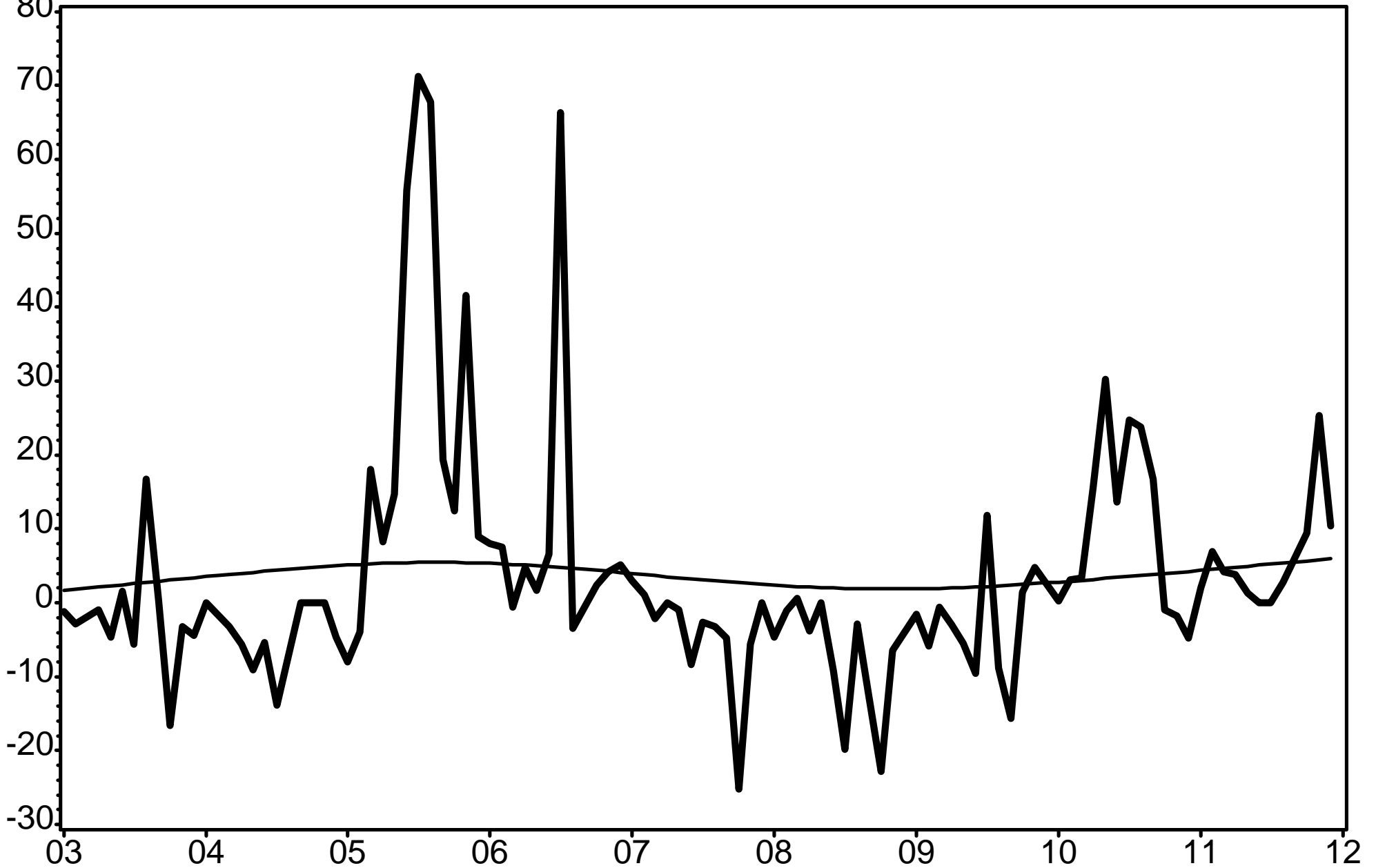
COLOR
(PCU)



Matlacha Pass Trends Appendix - Display 1072

Monthly Data Time Series
for Surface Color in Matlacha Pass
Adjusted for Seasonal Medians

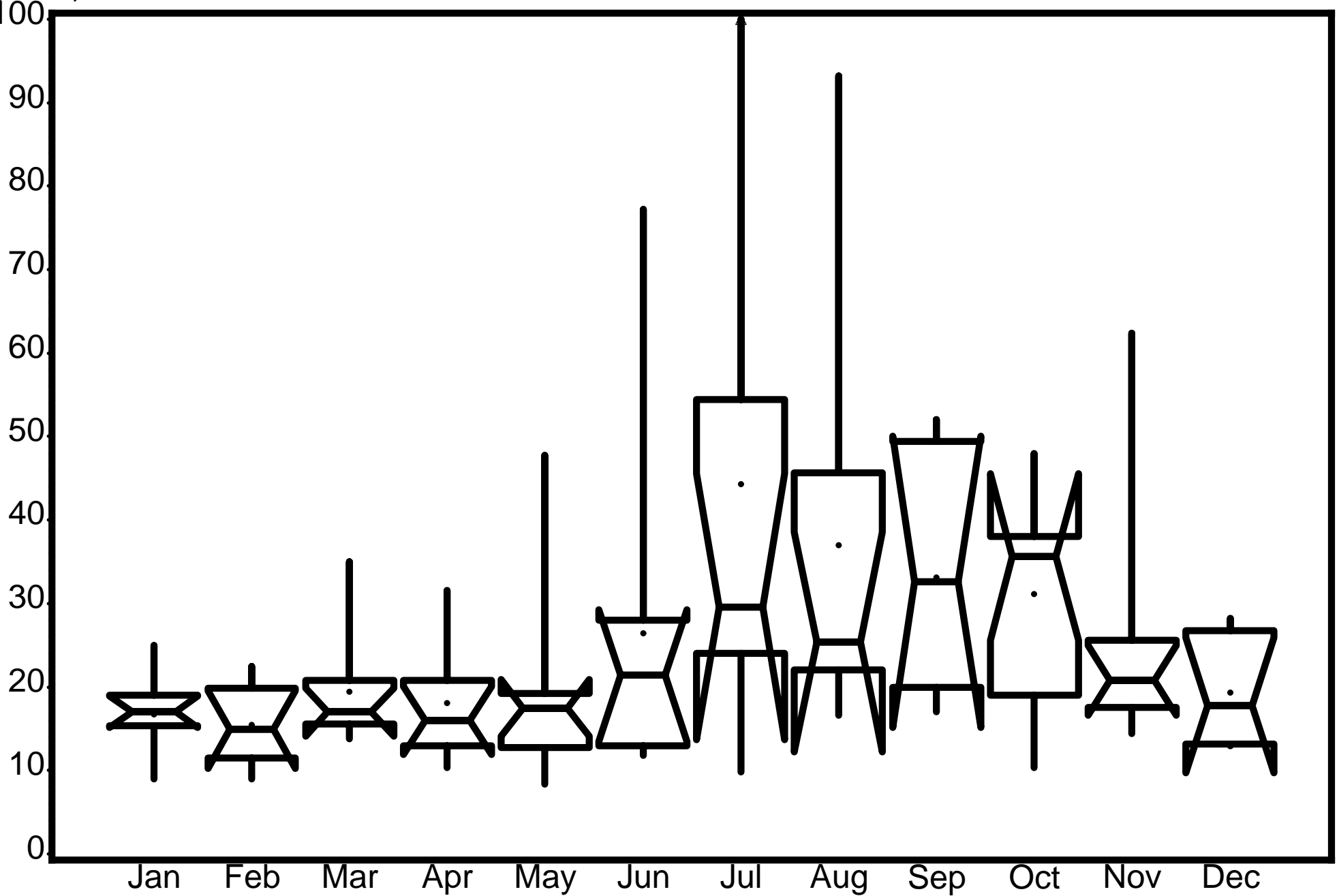
Adjusted
COLOR
(PCU)



Matlacha Pass Trends Appendix - Display 1073

Seasonal Univariate Statistics
for Surface Color in Matlacha Pass

COLOR
(PCU)



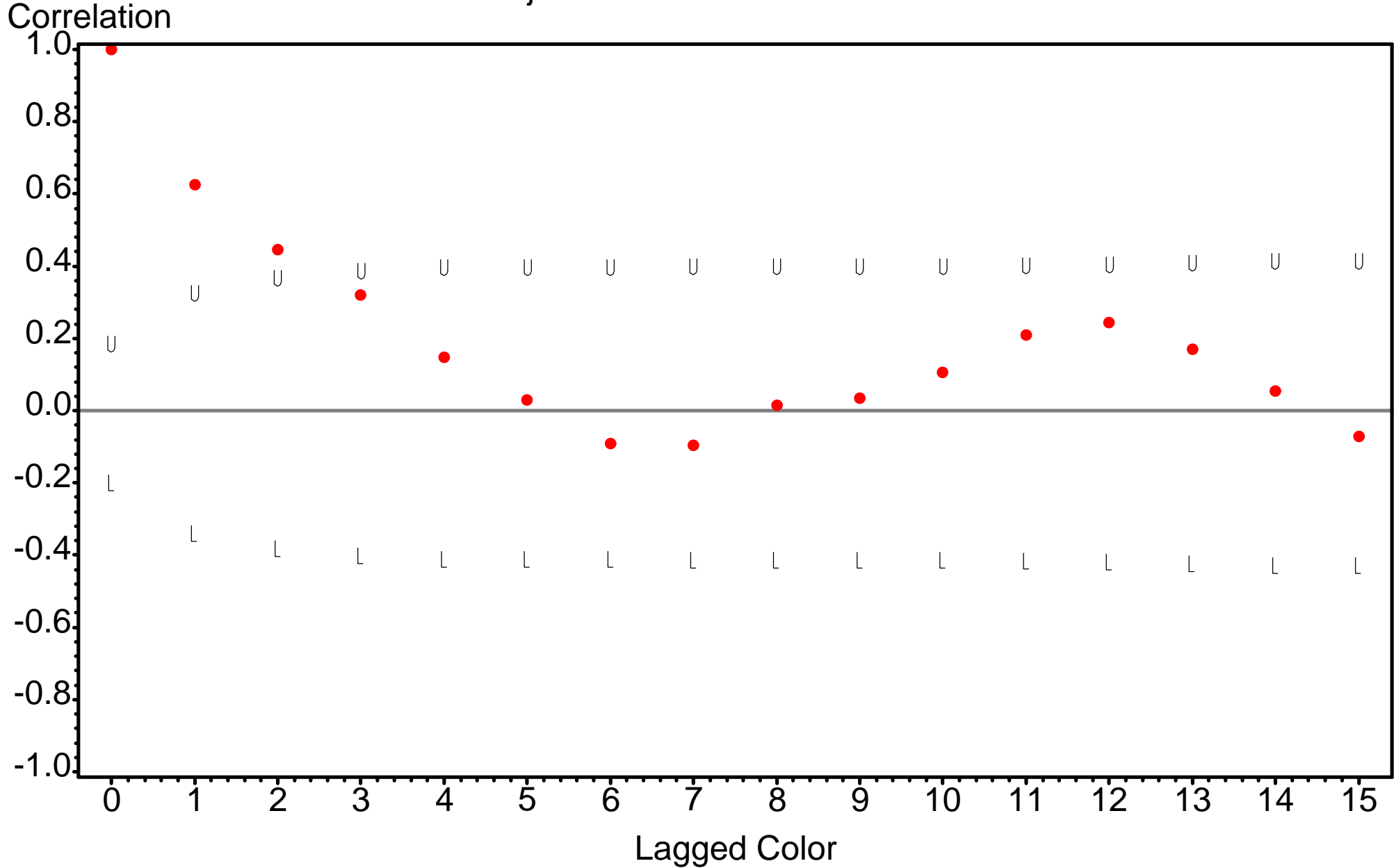
Matlacha Pass Trends Appendix - Display 1074

Autocorrelation Statistics for Surface Color in Matlacha Pass

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.625	0.167	0.333	-0.333
2	0.446	0.187	0.374	-0.374
3	0.321	0.197	0.393	-0.393
4	0.147	0.201	0.403	-0.403
5	0.030	0.202	0.405	-0.405
6	-0.092	0.203	0.405	-0.405
7	-0.096	0.203	0.406	-0.406
8	0.016	0.203	0.407	-0.407
9	0.034	0.203	0.407	-0.407
10	0.106	0.203	0.407	-0.407
11	0.209	0.204	0.408	-0.408
12	0.243	0.206	0.412	-0.412
13	0.169	0.208	0.417	-0.417
14	0.055	0.210	0.420	-0.420
15	-0.072	0.210	0.420	-0.420

Matlacha Pass Trends Appendix - Display 1075

Correlogram for Surface Color in Matlacha Pass
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1076
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.079	0.244	0.244	0.447

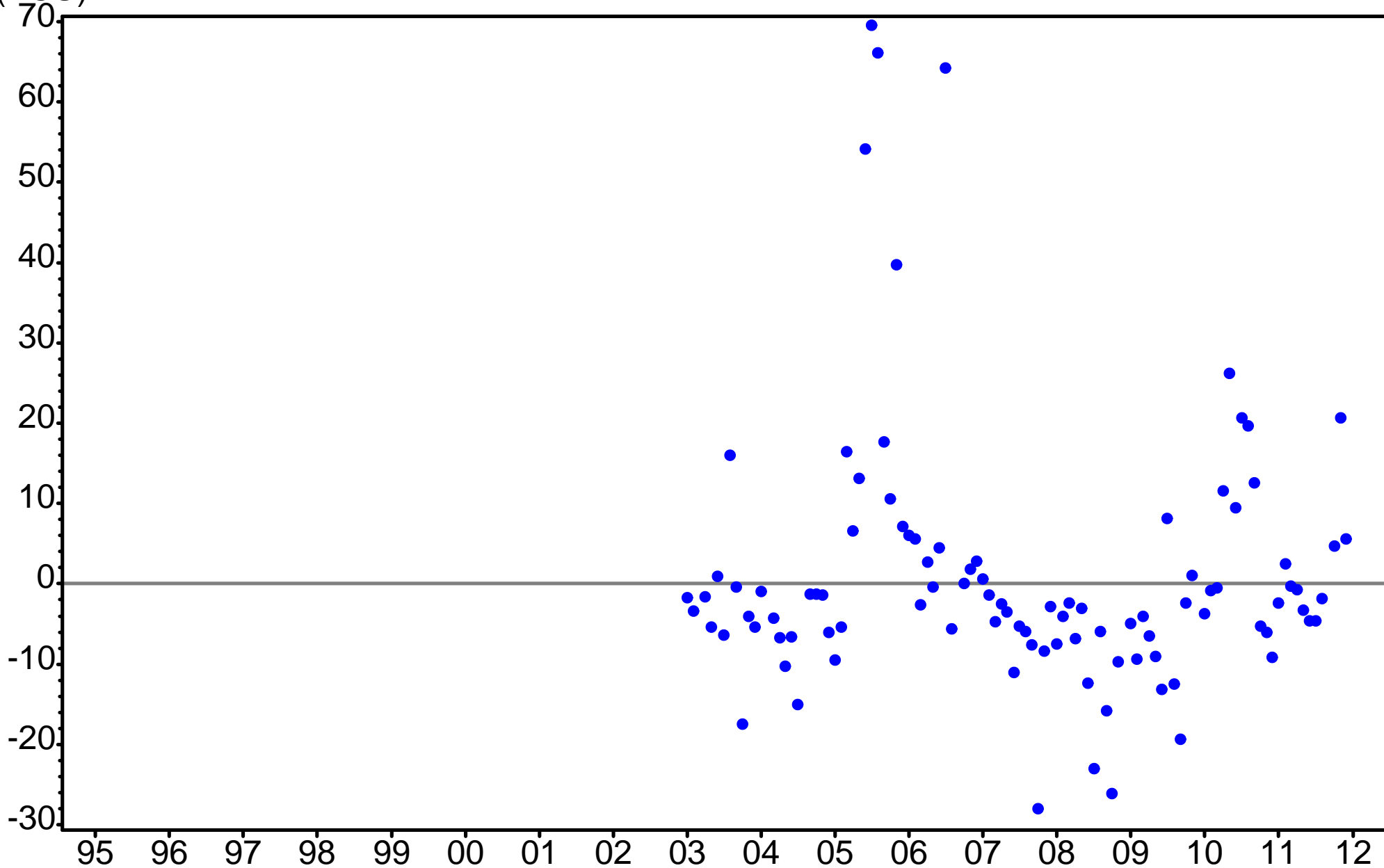
Matlacha Pass Trends Appendix - Display 1077
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.087302	0.29342	0.63510	0.485

Matlacha Pass Trends Appendix - Display 1078

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(PCU)



Zero Reference Line Shown

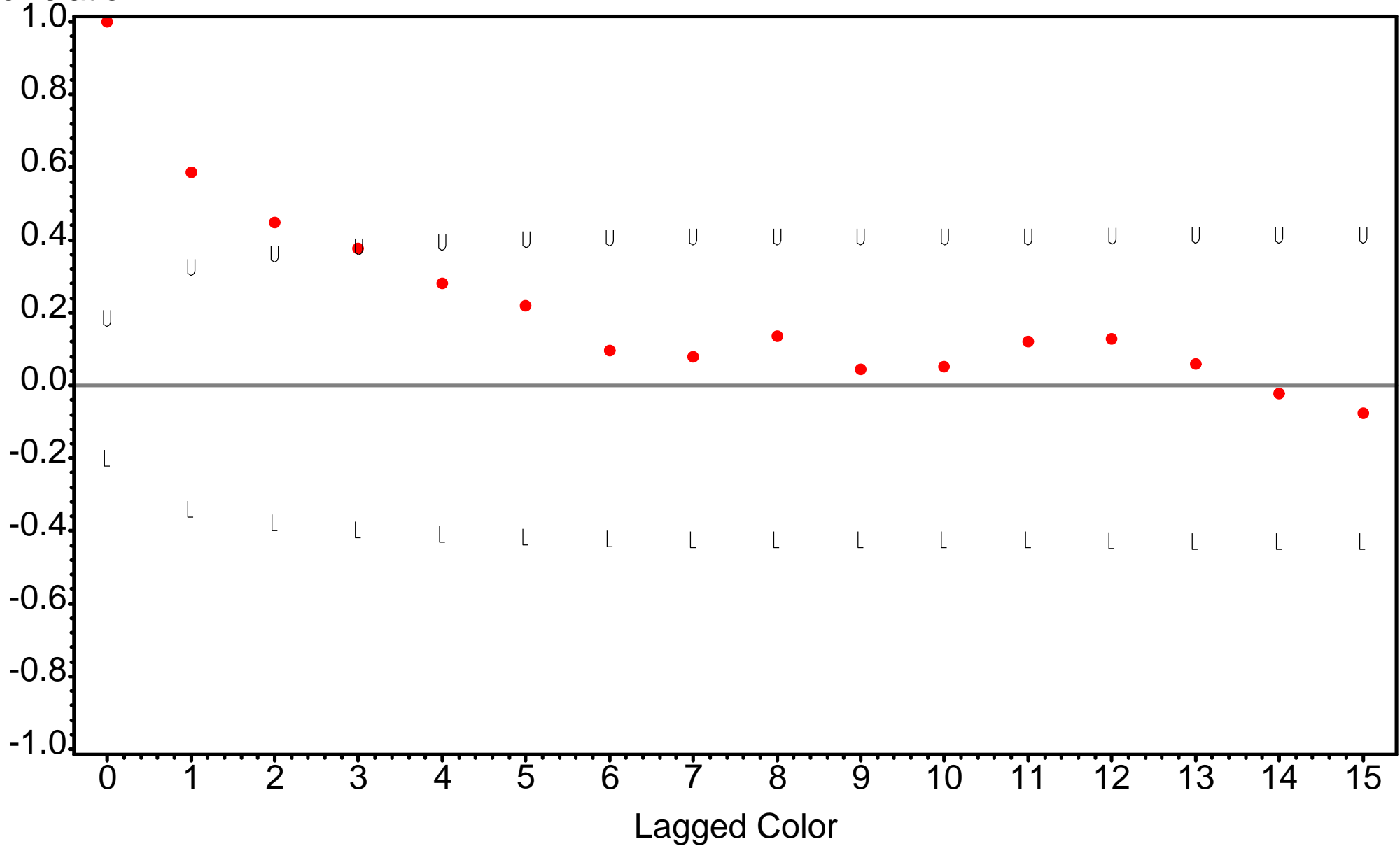
Matlacha Pass Trends Appendix - Display 1079
Autocorrelation Statistics for Surface Color in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.585	0.167	0.333	-0.333
2	0.448	0.185	0.369	-0.369
3	0.376	0.194	0.389	-0.389
4	0.280	0.201	0.402	-0.402
5	0.220	0.205	0.409	-0.409
6	0.096	0.207	0.414	-0.414
7	0.079	0.207	0.415	-0.415
8	0.136	0.208	0.415	-0.415
9	0.044	0.208	0.417	-0.417
10	0.052	0.208	0.417	-0.417
11	0.121	0.209	0.417	-0.417
12	0.127	0.209	0.418	-0.418
13	0.060	0.210	0.420	-0.420
14	-0.022	0.210	0.420	-0.420
15	-0.077	0.210	0.420	-0.420

Matlacha Pass Trends Appendix - Display 1080

Correlogram for Surface Color in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

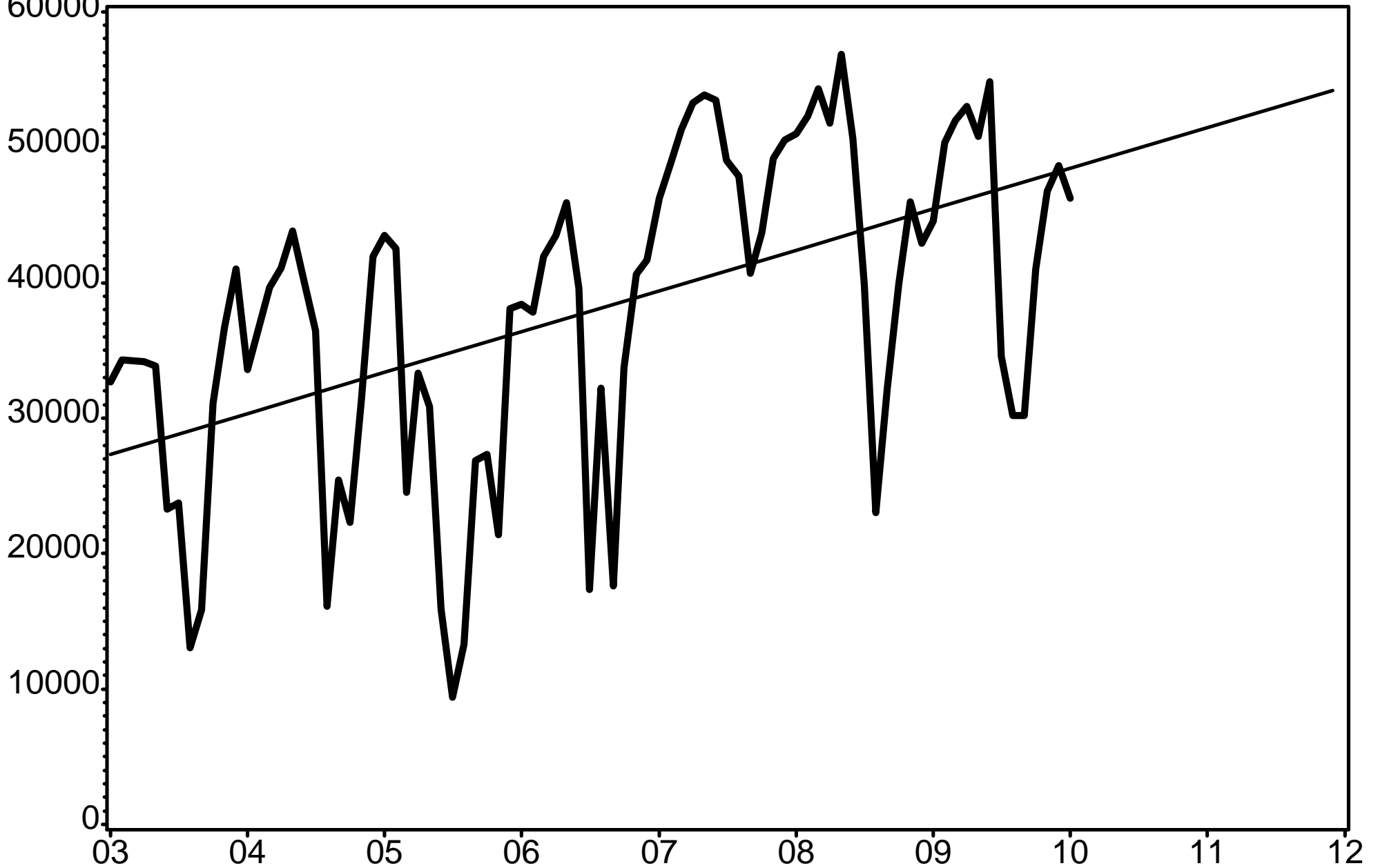
Matlacha Pass Trends Appendix - Display 1081

Monthly Data Time Series

for Surface Specific Conductance in Matlacha Pass

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



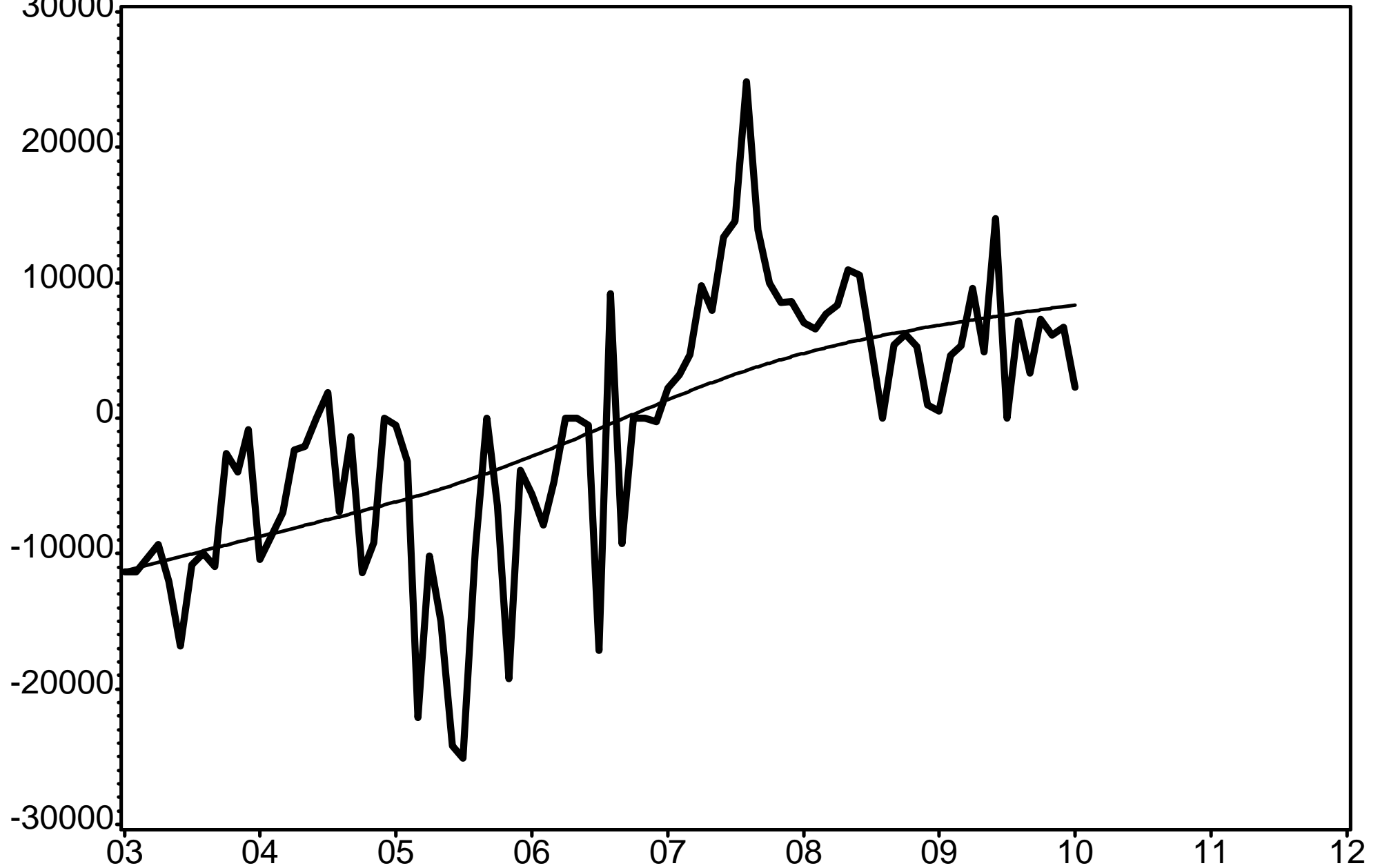
Matlacha Pass Trends Appendix - Display 1082

Monthly Data Time Series

for Surface Specific Conductance in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
30000



Matlacha Pass Trends Appendix - Display 1083

Seasonal Univariate Statistics

for Surface Specific Conductance in Matlacha Pass

COND
($\mu\text{S}/\text{cm}$)

60000

50000

40000

30000

20000

10000

0

Jan

Feb

Mar

Apr

May

Jun

Jul

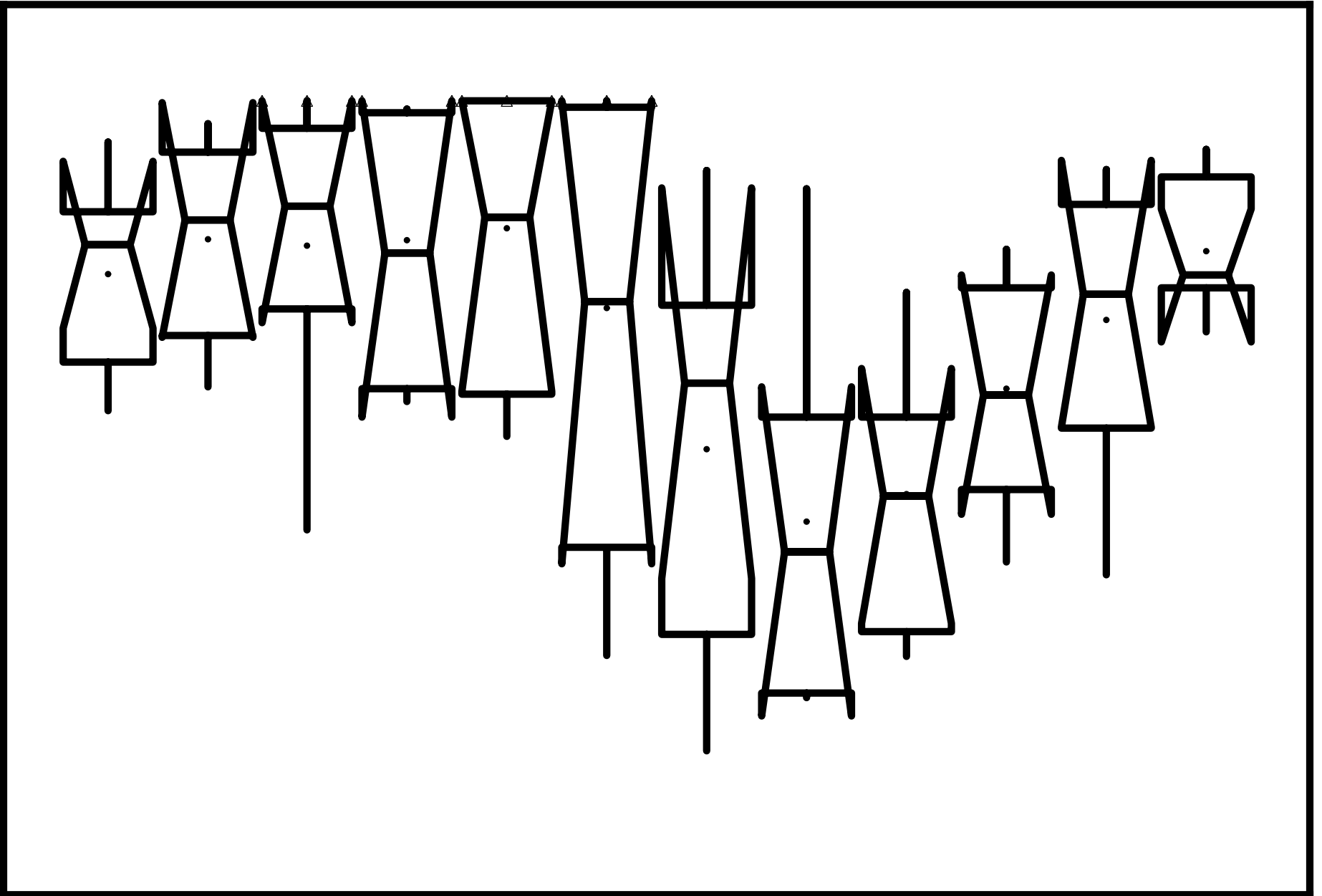
Aug

Sep

Oct

Nov

Dec



Matlacha Pass Trends Appendix - Display 1084

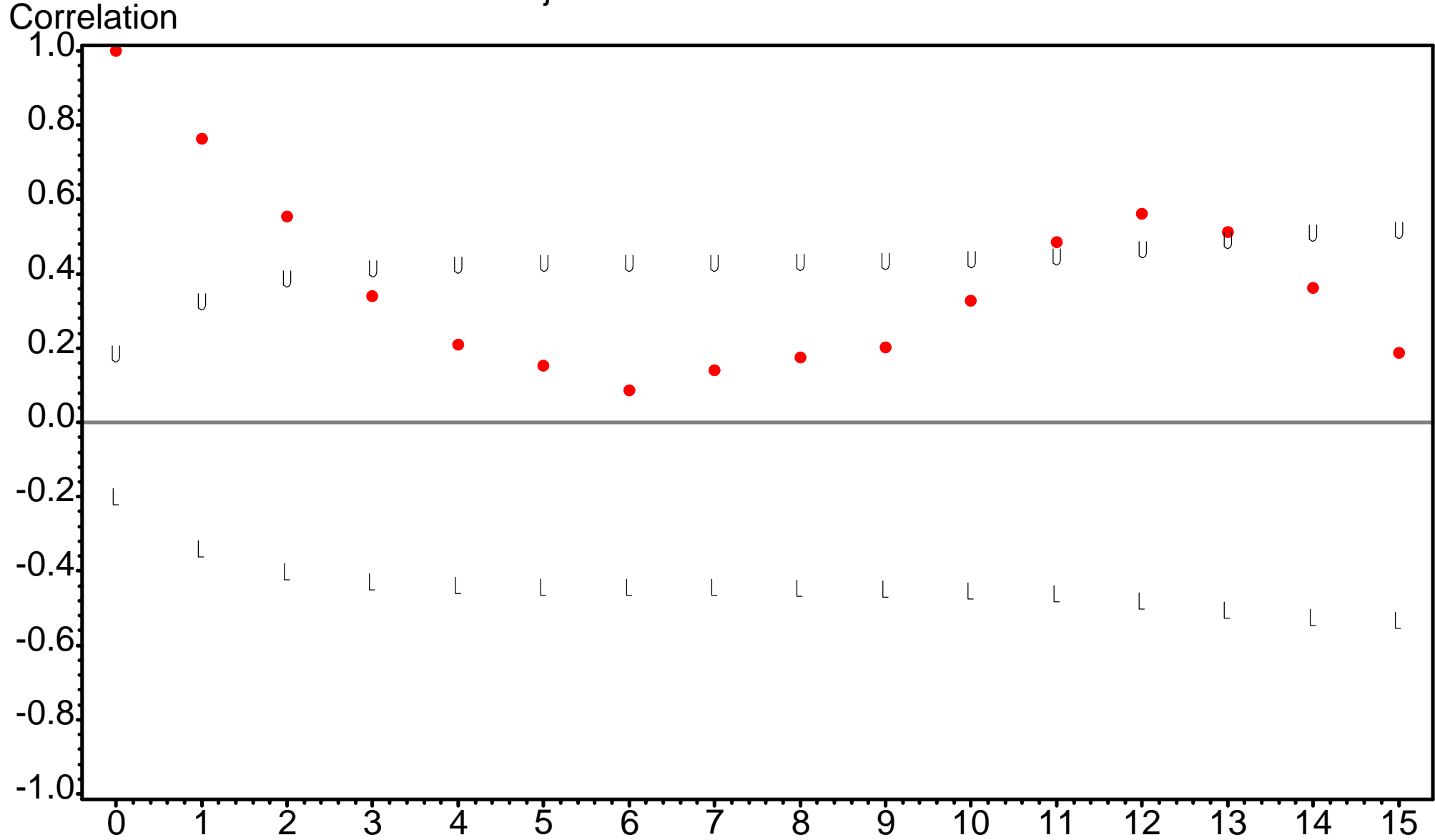
Autocorrelation Statistics for Surface Specific Conductance in Matlacha Pass

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.764	0.167	0.333	-0.333
2	0.555	0.196	0.393	-0.393
3	0.340	0.210	0.421	-0.421
4	0.210	0.215	0.431	-0.431
5	0.152	0.217	0.435	-0.435
6	0.086	0.218	0.437	-0.437
7	0.140	0.219	0.437	-0.437
8	0.174	0.219	0.439	-0.439
9	0.203	0.221	0.441	-0.441
10	0.328	0.222	0.445	-0.445
11	0.486	0.227	0.454	-0.454
12	0.562	0.236	0.473	-0.473
13	0.511	0.248	0.497	-0.497
14	0.361	0.258	0.516	-0.516
15	0.188	0.263	0.525	-0.525

Matlacha Pass Trends Appendix - Display 1085

Correlogram for Surface Specific Conductance in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1086
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.385	0	0	3011.83

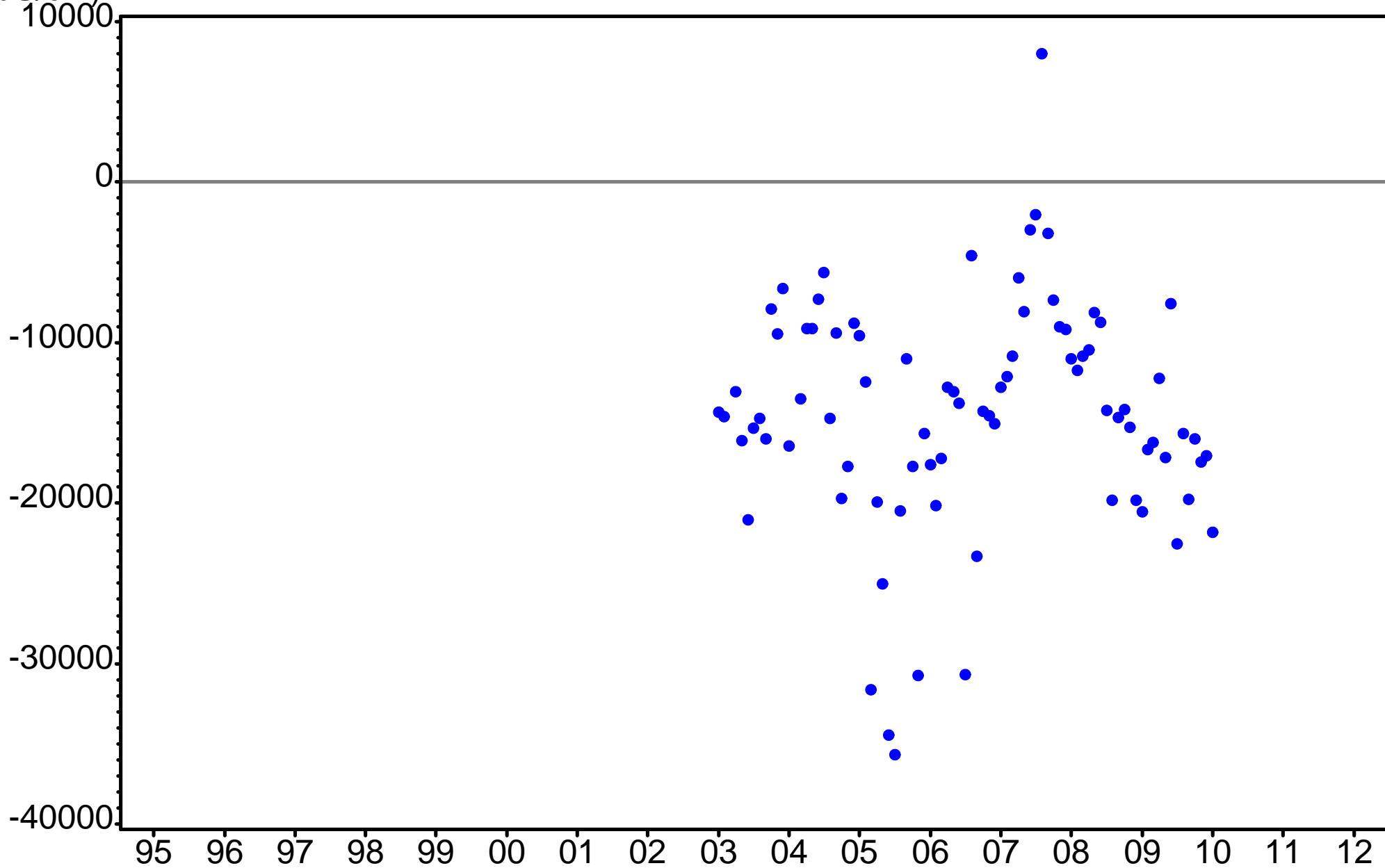
Matlacha Pass Trends Appendix - Display 1087
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.57895	0	0.032237	3008.67

Matlacha Pass Trends Appendix - Display 1088

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(uS/cm)



Zero Reference Line Shown

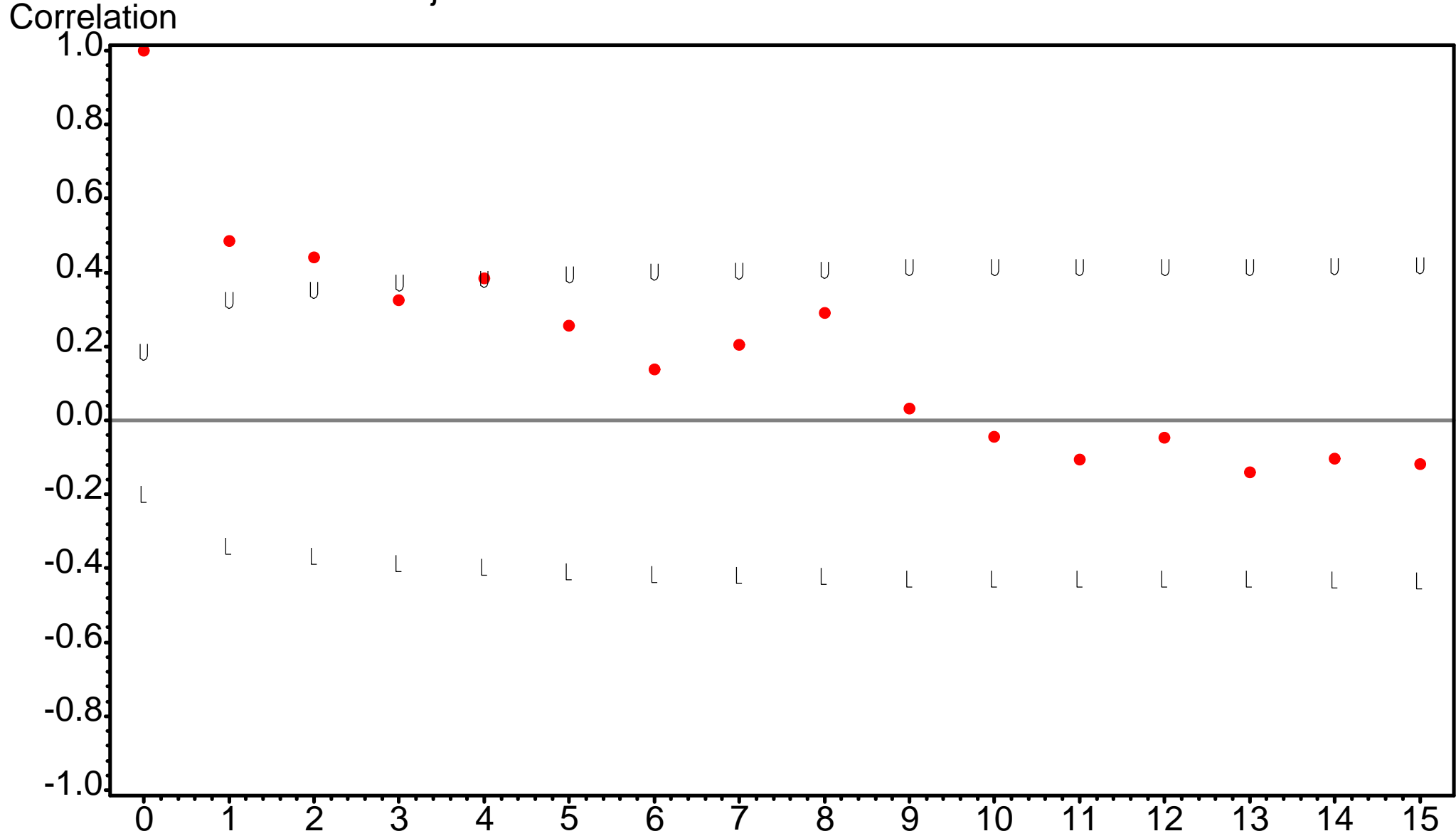
Matlacha Pass Trends Appendix - Display 1089
Autocorrelation Statistics for Surface Specific Conductance in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.486	0.167	0.333	-0.333
2	0.440	0.179	0.359	-0.359
3	0.324	0.189	0.378	-0.378
4	0.383	0.194	0.388	-0.388
5	0.257	0.201	0.402	-0.402
6	0.139	0.204	0.408	-0.408
7	0.204	0.205	0.410	-0.410
8	0.291	0.207	0.414	-0.414
9	0.032	0.211	0.421	-0.421
10	-0.045	0.211	0.421	-0.421
11	-0.105	0.211	0.421	-0.421
12	-0.047	0.211	0.422	-0.422
13	-0.140	0.211	0.422	-0.422
14	-0.104	0.212	0.424	-0.424
15	-0.117	0.213	0.425	-0.425

Matlacha Pass Trends Appendix - Display 1090

Correlogram for Surface Specific Conductance in Matlacha Pass

Adjusted for Seasonal Median and Detrended

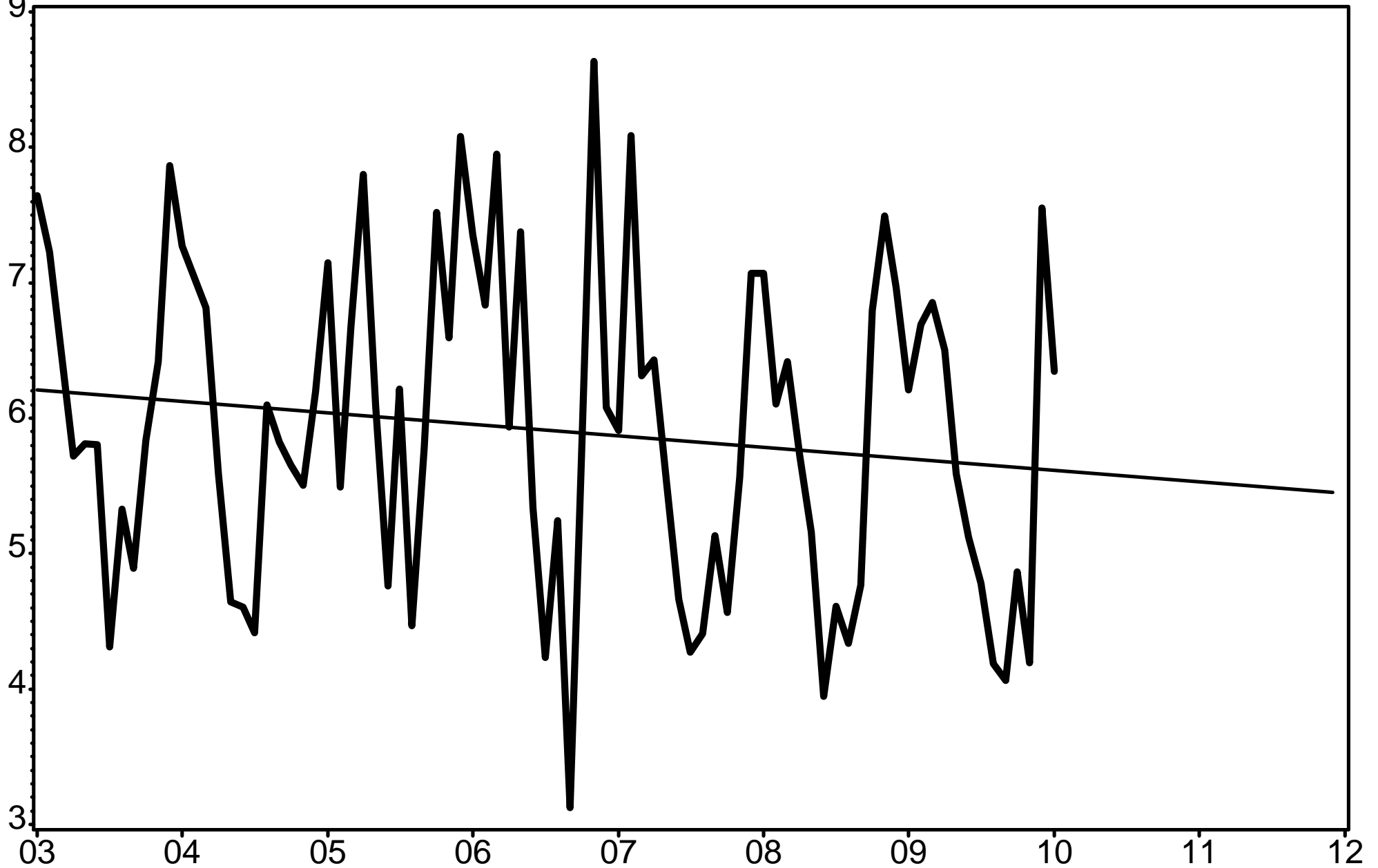


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1091

Monthly Data Time Series
for Surface Dissolved Oxygen in Matlacha Pass
Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



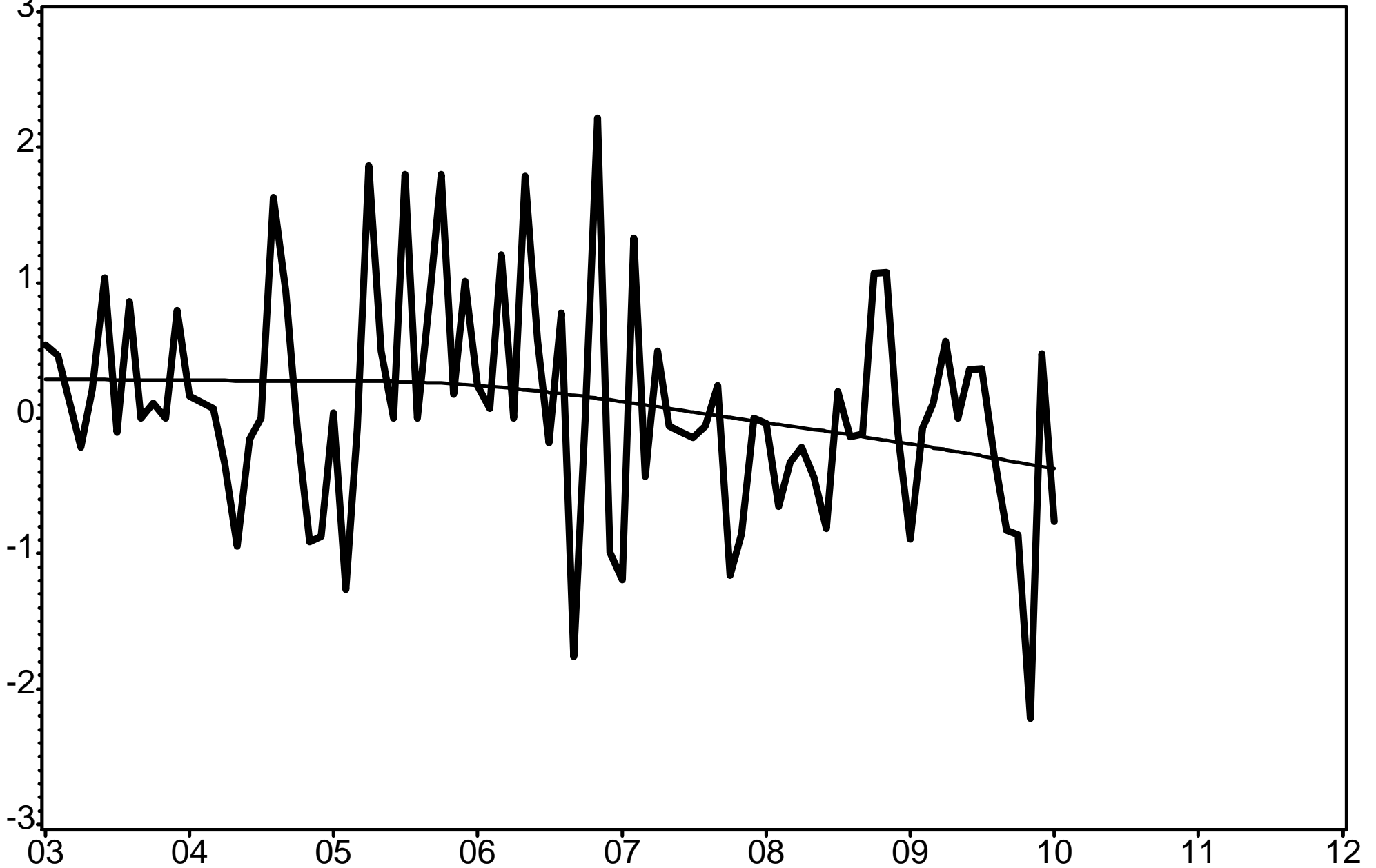
Matlacha Pass Trends Appendix - Display 1092

Monthly Data Time Series

for Surface Dissolved Oxygen in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

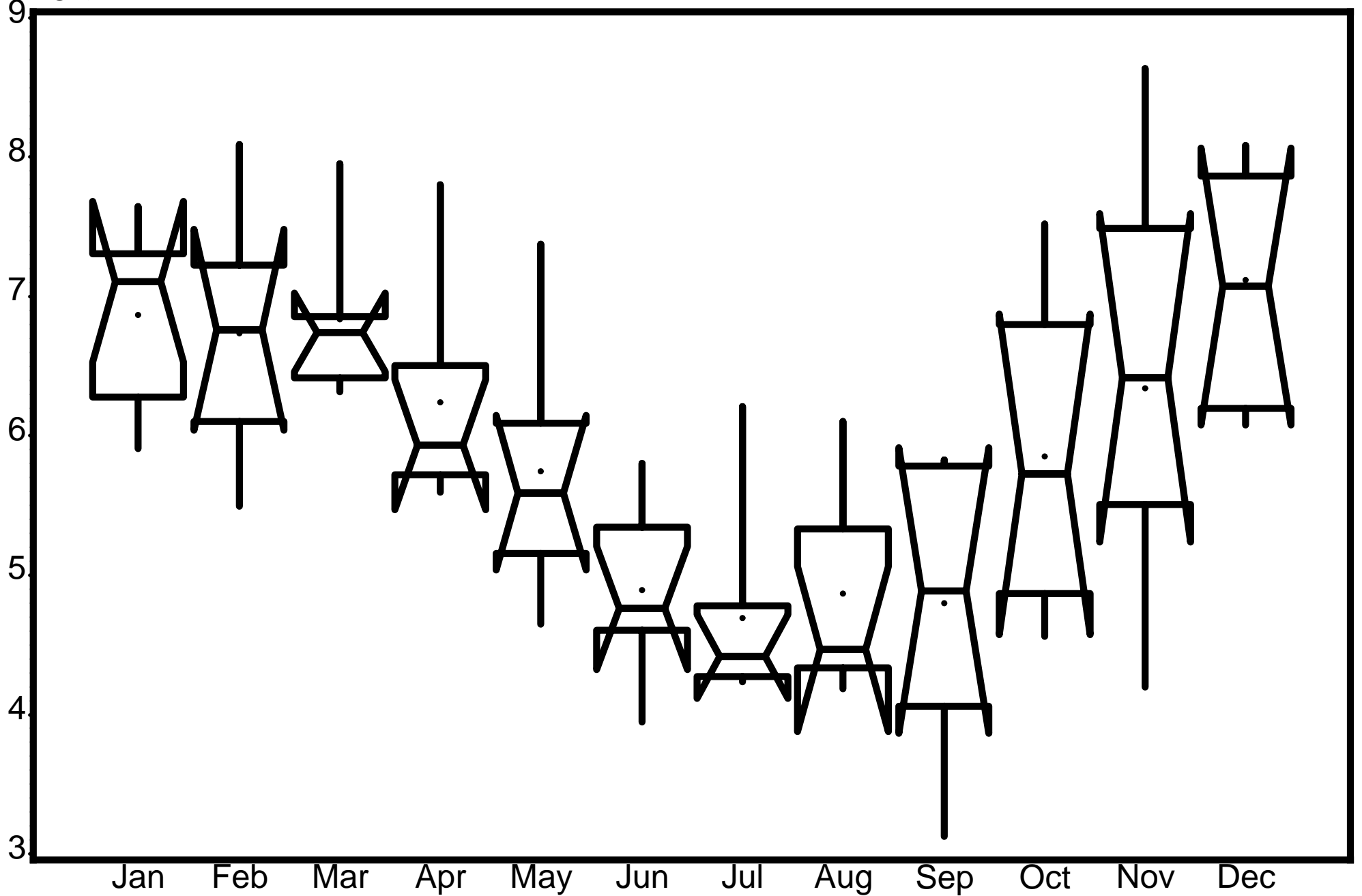


Matlacha Pass Trends Appendix - Display 1093

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Matlacha Pass

DO_mgl
(mg/l)



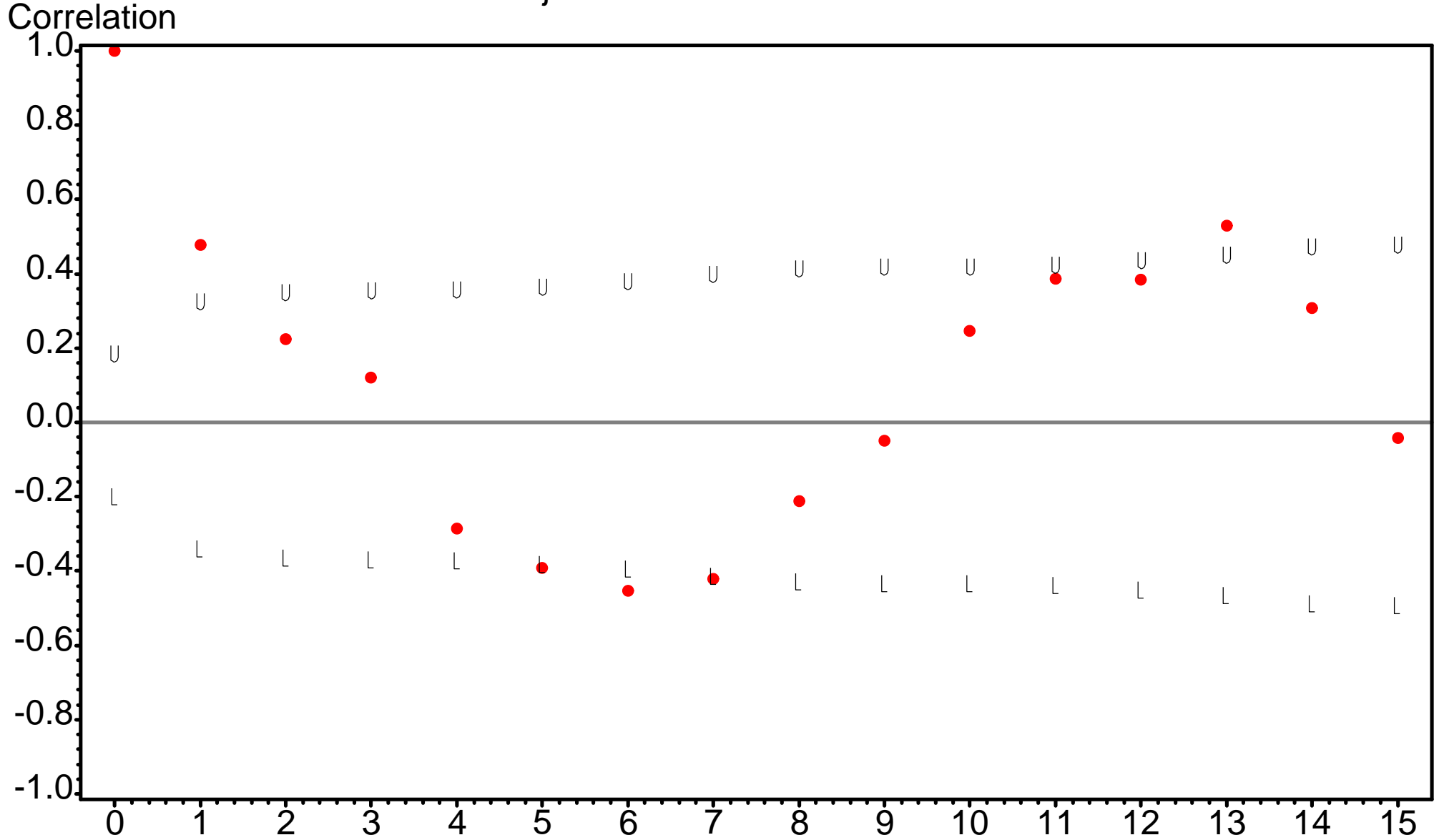
Matlacha Pass Trends Appendix - Display 1094
Autocorrelation Statistics for Surface Dissolved Oxygen in Matlacha Pass

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.477	0.167	0.333	-0.333
2	0.225	0.179	0.358	-0.358
3	0.120	0.181	0.363	-0.363
4	-0.285	0.182	0.364	-0.364
5	-0.391	0.186	0.373	-0.373
6	-0.452	0.194	0.387	-0.387
7	-0.422	0.203	0.406	-0.406
8	-0.212	0.211	0.422	-0.422
9	-0.050	0.213	0.426	-0.426
10	0.246	0.213	0.427	-0.427
11	0.386	0.216	0.432	-0.432
12	0.385	0.222	0.444	-0.444
13	0.529	0.228	0.457	-0.457
14	0.309	0.239	0.479	-0.479
15	-0.041	0.243	0.486	-0.486

Matlacha Pass Trends Appendix - Display 1095

Correlogram for Surface Dissolved Oxygen in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1096
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.091	0.223	0.223	-0.093

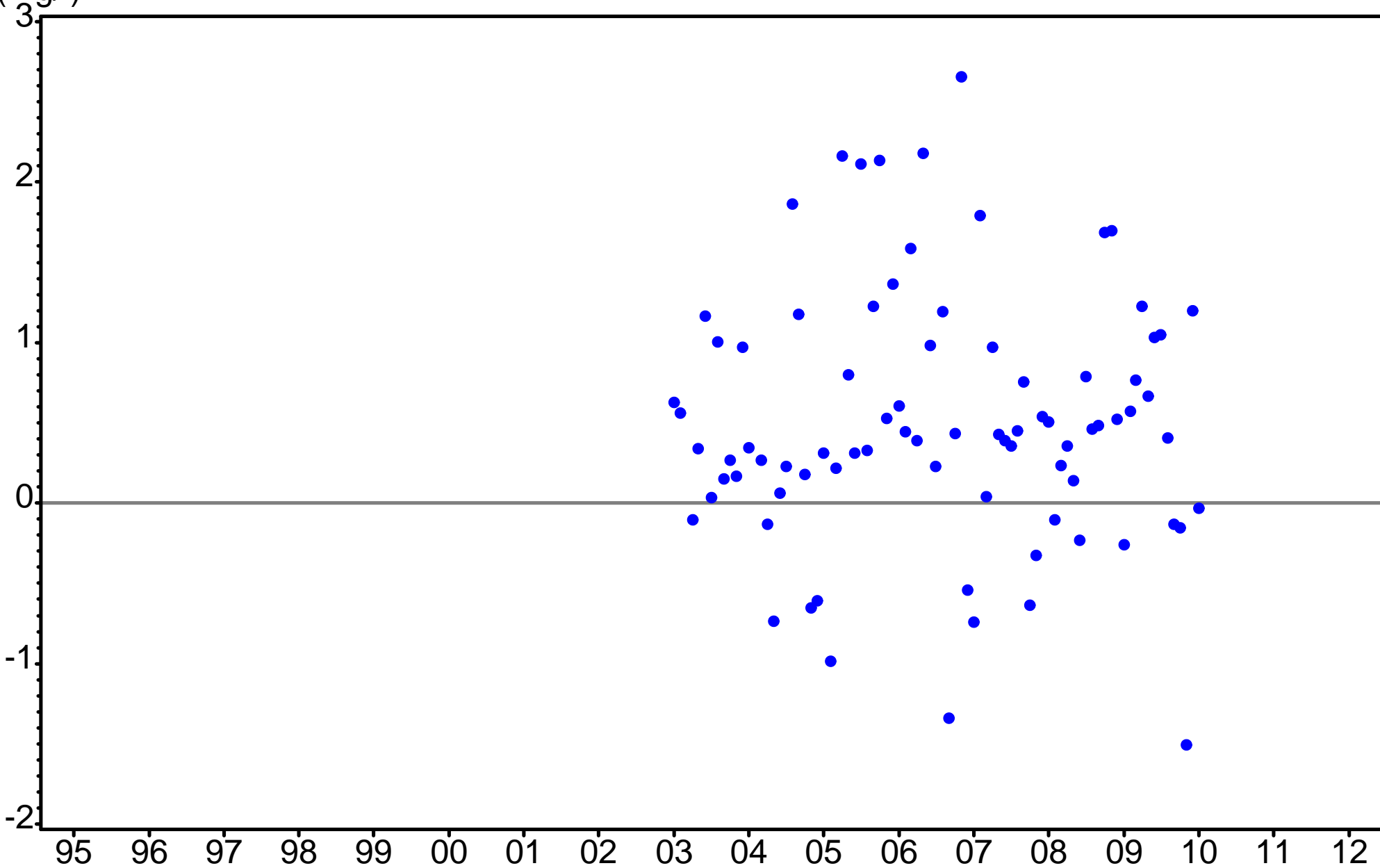
Matlacha Pass Trends Appendix - Display 1097
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.18219	0.053896	0.15205	-0.091

Matlacha Pass Trends Appendix - Display 1098

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(mg/l)



Zero Reference Line Shown

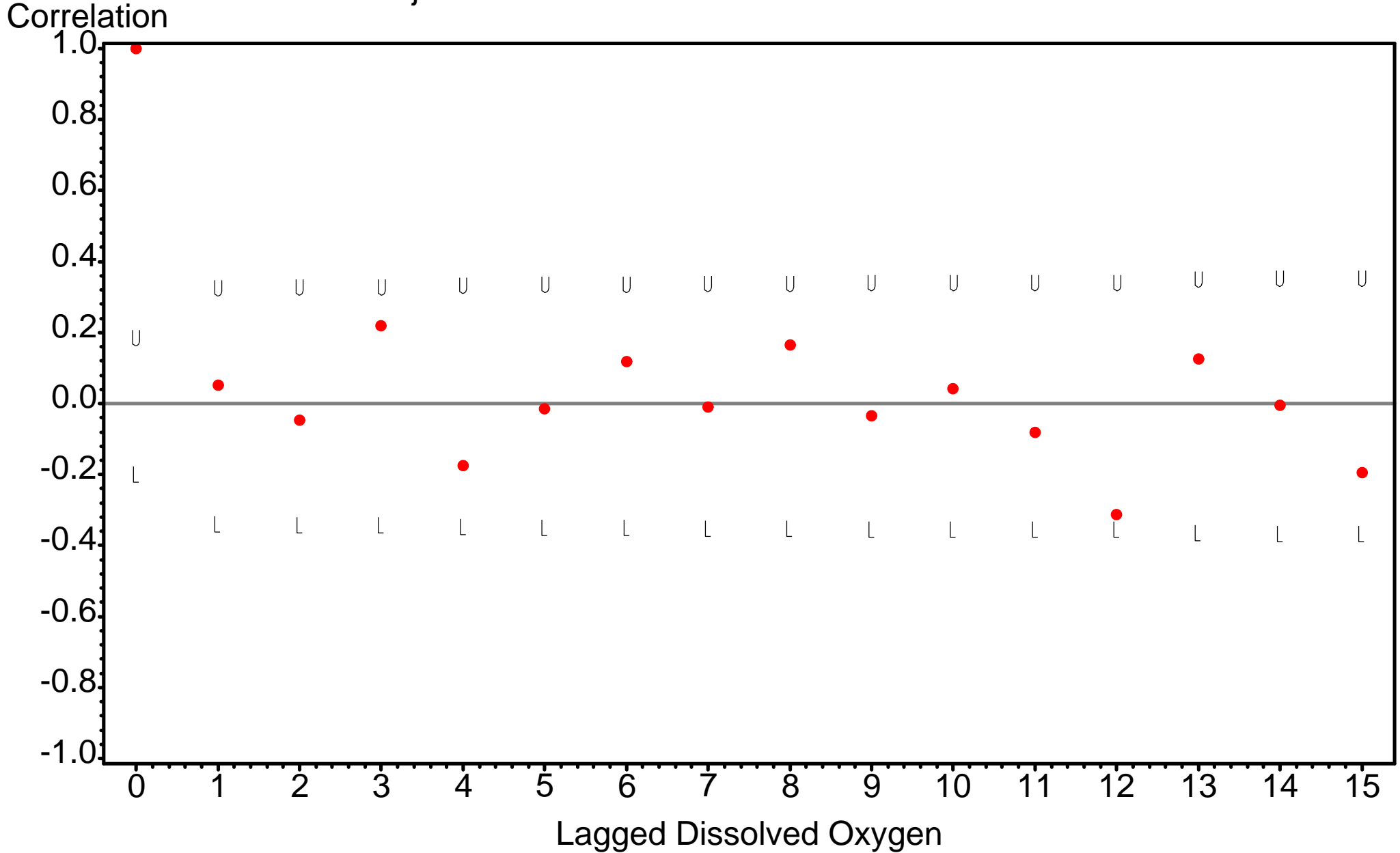
Matlacha Pass Trends Appendix - Display 1099
Autocorrelation Statistics for Surface Dissolved Oxygen in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.051	0.167	0.333	-0.333
2	-0.047	0.167	0.334	-0.334
3	0.220	0.167	0.334	-0.334
4	-0.175	0.170	0.339	-0.339
5	-0.015	0.171	0.343	-0.343
6	0.119	0.171	0.343	-0.343
7	-0.009	0.172	0.344	-0.344
8	0.165	0.172	0.344	-0.344
9	-0.034	0.174	0.347	-0.347
10	0.043	0.174	0.347	-0.347
11	-0.080	0.174	0.347	-0.347
12	-0.312	0.174	0.348	-0.348
13	0.126	0.179	0.358	-0.358
14	-0.006	0.180	0.360	-0.360
15	-0.195	0.180	0.360	-0.360

Matlacha Pass Trends Appendix - Display 1100

Correlogram for Surface Dissolved Oxygen in Matlacha Pass

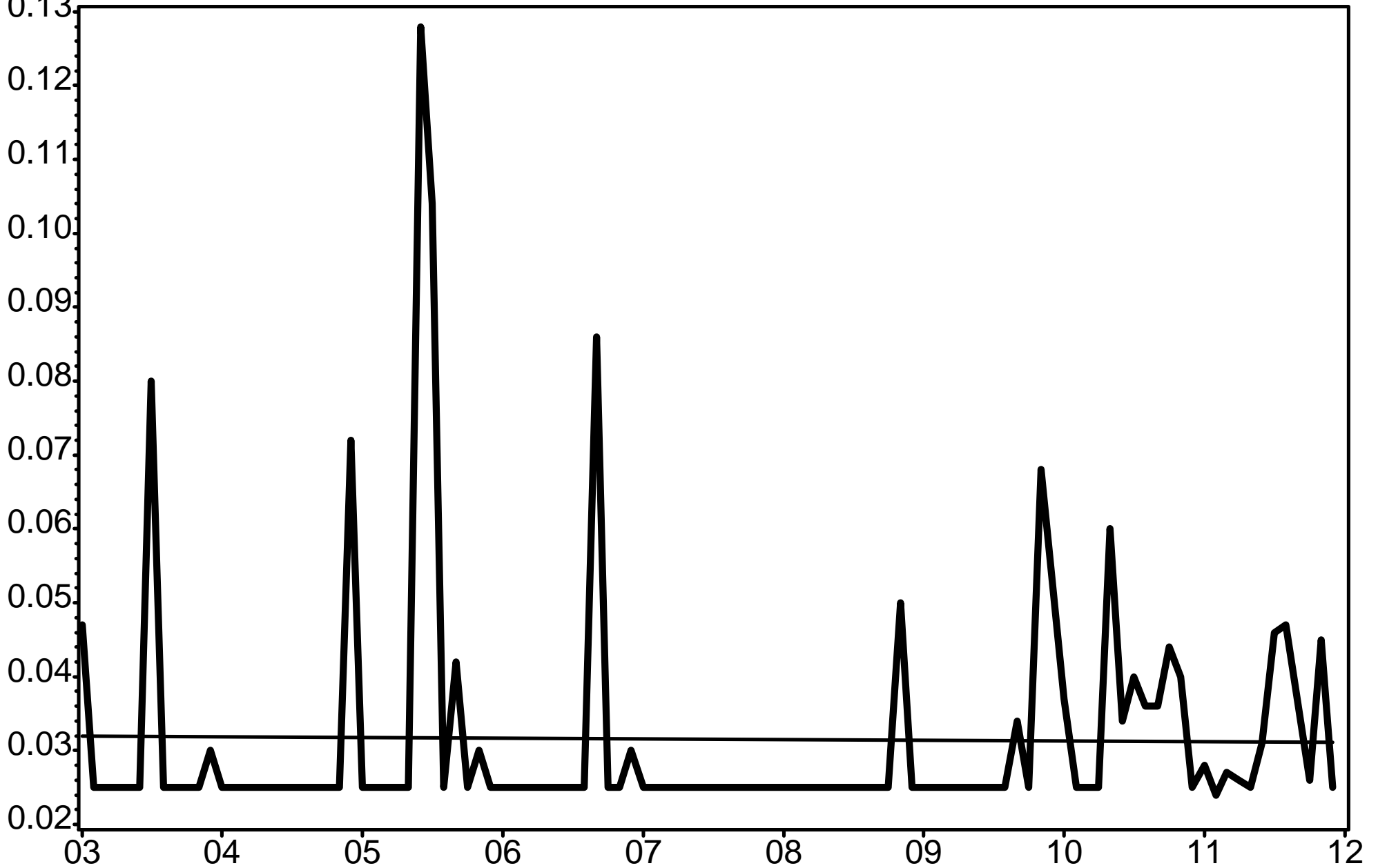
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1101
Monthly Data Time Series
for Surface Dissolved Orthophosphate in Matlacha Pass
Not Adjusted for Seasonal Medians

DPO4_mgl
(mg/L)



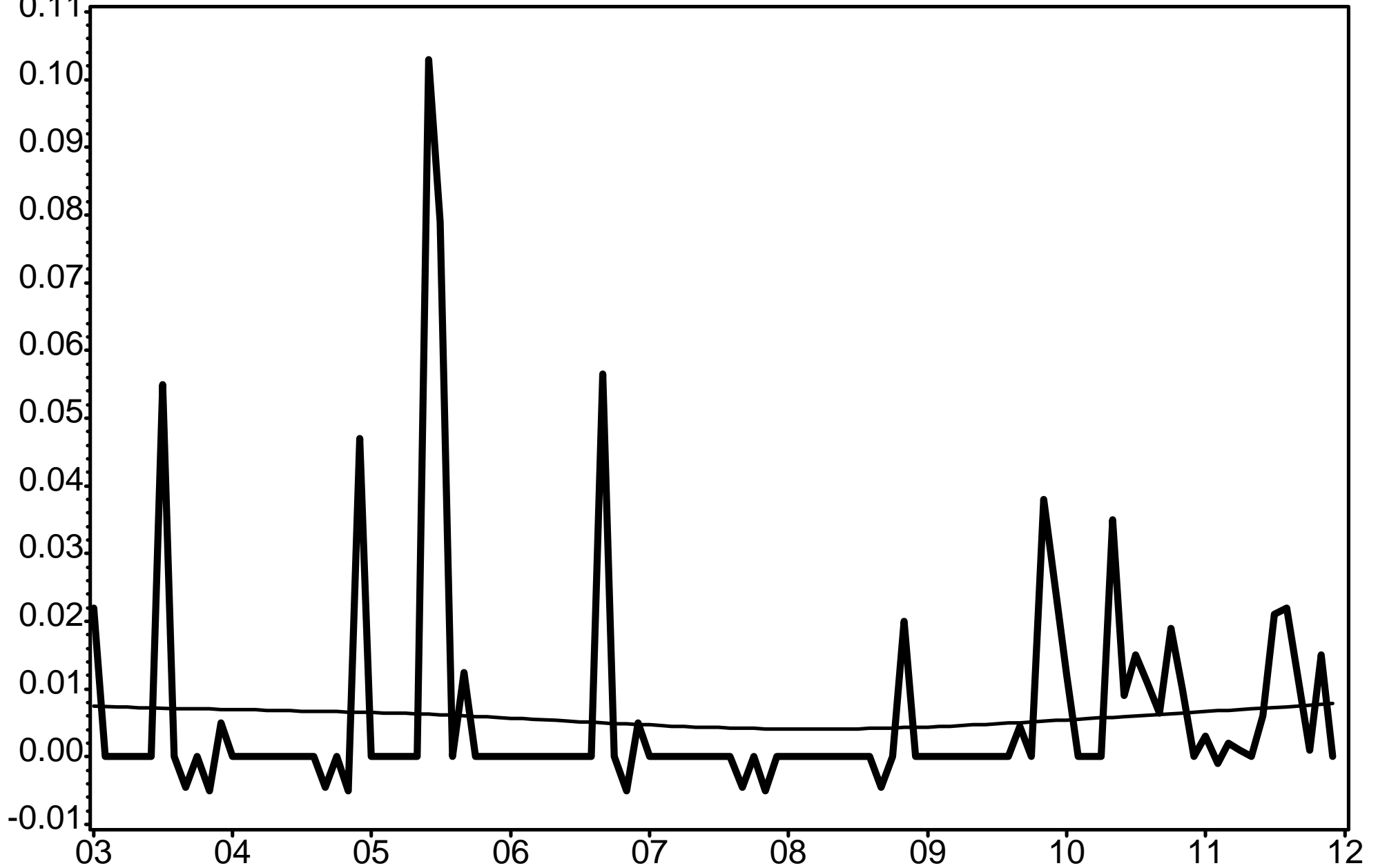
Matlacha Pass Trends Appendix - Display 1102

Monthly Data Time Series

for Surface Dissolved Orthophosphate in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
DPO4_mgl
(mg/L)

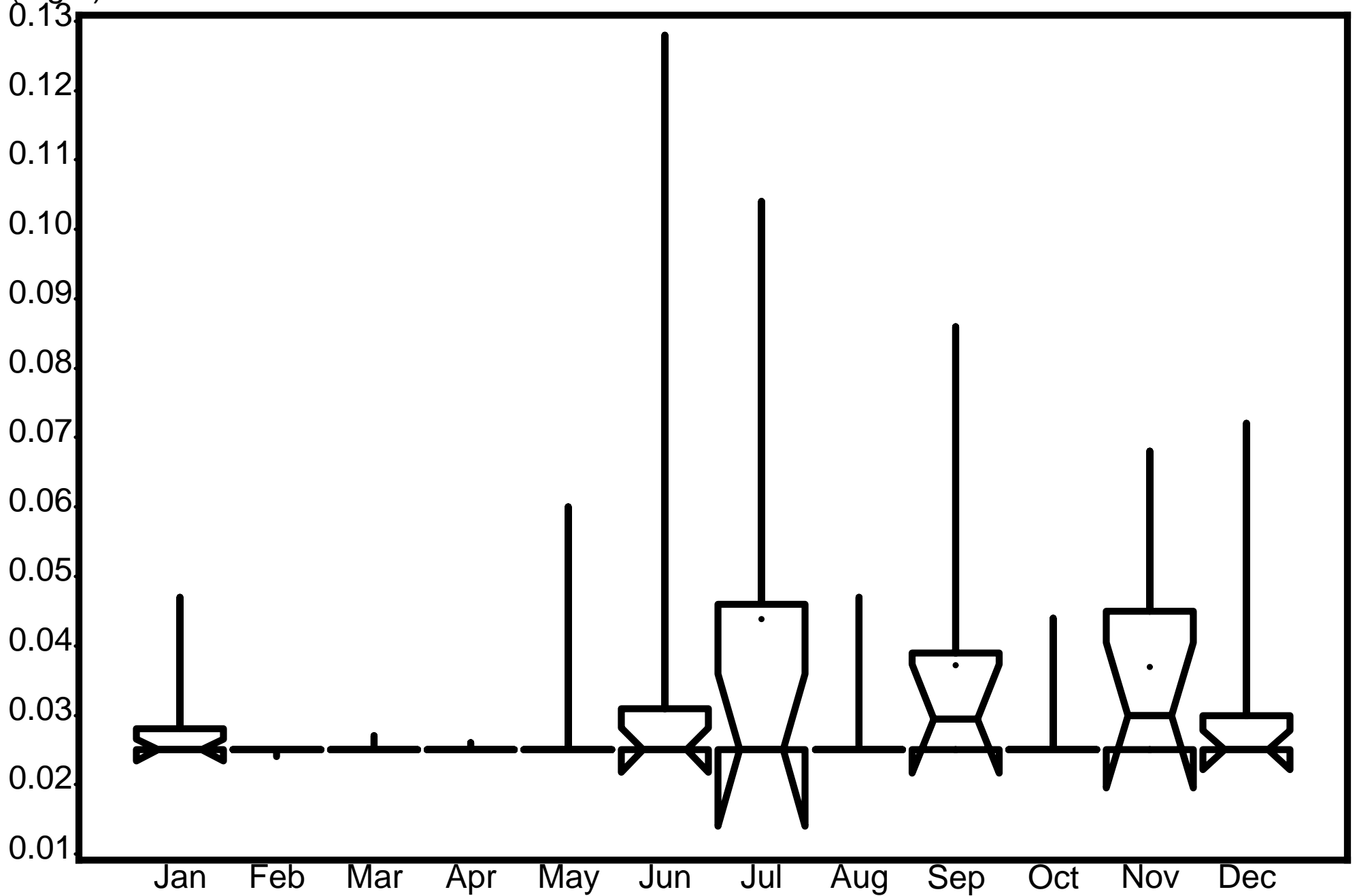


Matlacha Pass Trends Appendix - Display 1103

Seasonal Univariate Statistics

for Surface Dissolved Orthophosphate in Matlacha Pass

DPO4_mgl
(mg/L)



Matlacha Pass Trends Appendix - Display 1104

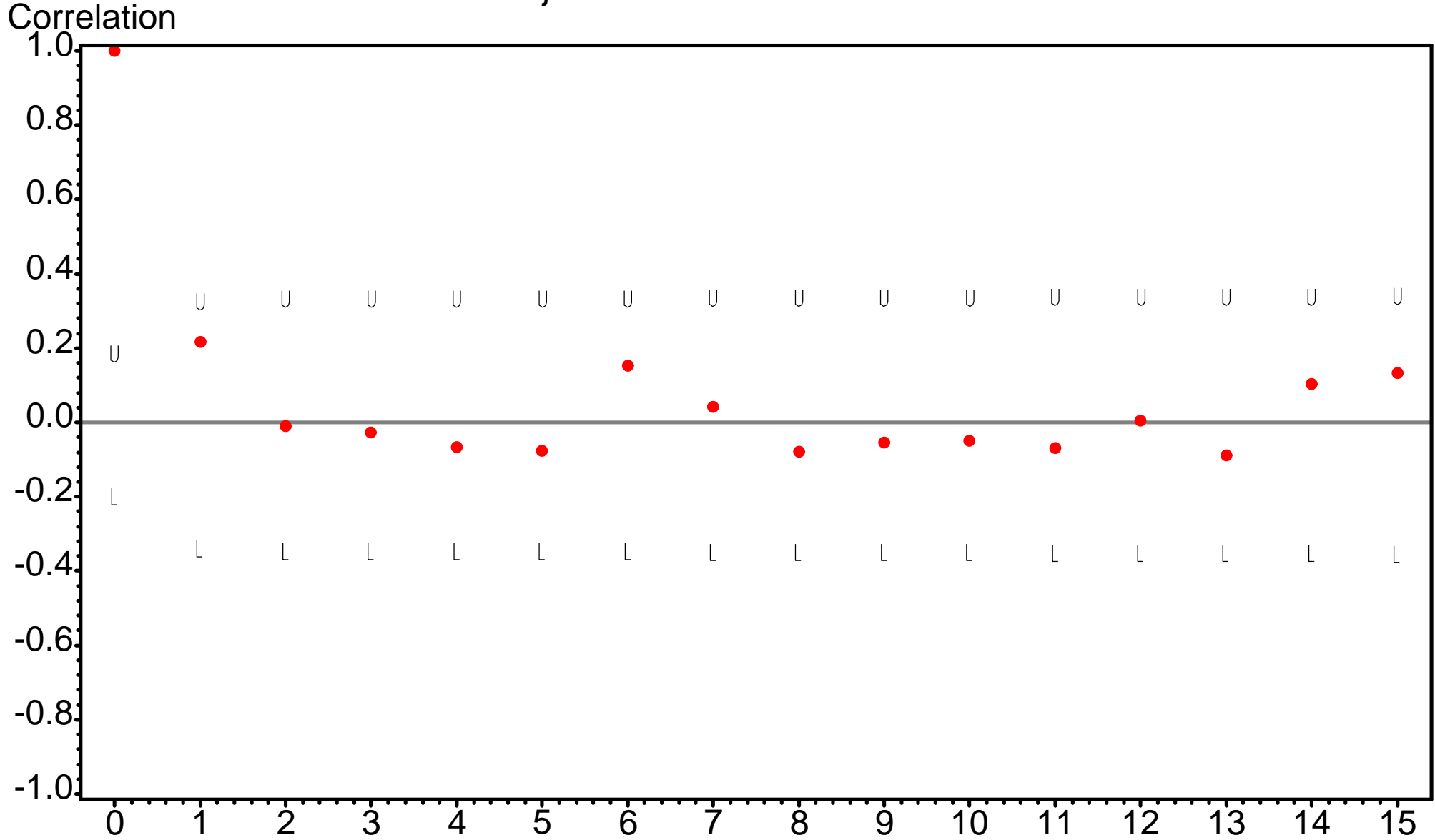
Autocorrelation Statistics for Surface Dissolved Orthophosphate in Matlacha Pass

Lagged Dissolved Orthophosphate	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.217	0.167	0.333	-0.333
2	-0.009	0.169	0.339	-0.339
3	-0.027	0.169	0.339	-0.339
4	-0.066	0.169	0.339	-0.339
5	-0.077	0.170	0.339	-0.339
6	0.152	0.170	0.340	-0.340
7	0.041	0.171	0.342	-0.342
8	-0.078	0.171	0.342	-0.342
9	-0.055	0.172	0.343	-0.343
10	-0.049	0.172	0.343	-0.343
11	-0.070	0.172	0.344	-0.344
12	0.005	0.172	0.344	-0.344
13	-0.088	0.172	0.344	-0.344
14	0.103	0.173	0.345	-0.345
15	0.134	0.173	0.346	-0.346

Matlacha Pass Trends Appendix - Display 1105

Correlogram for Surface Dissolved Orthophosphate in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Dissolved Orthophosphate

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1106
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Orthophosphate in Matlacha Pass
Unadjusted for Seasonal Medians

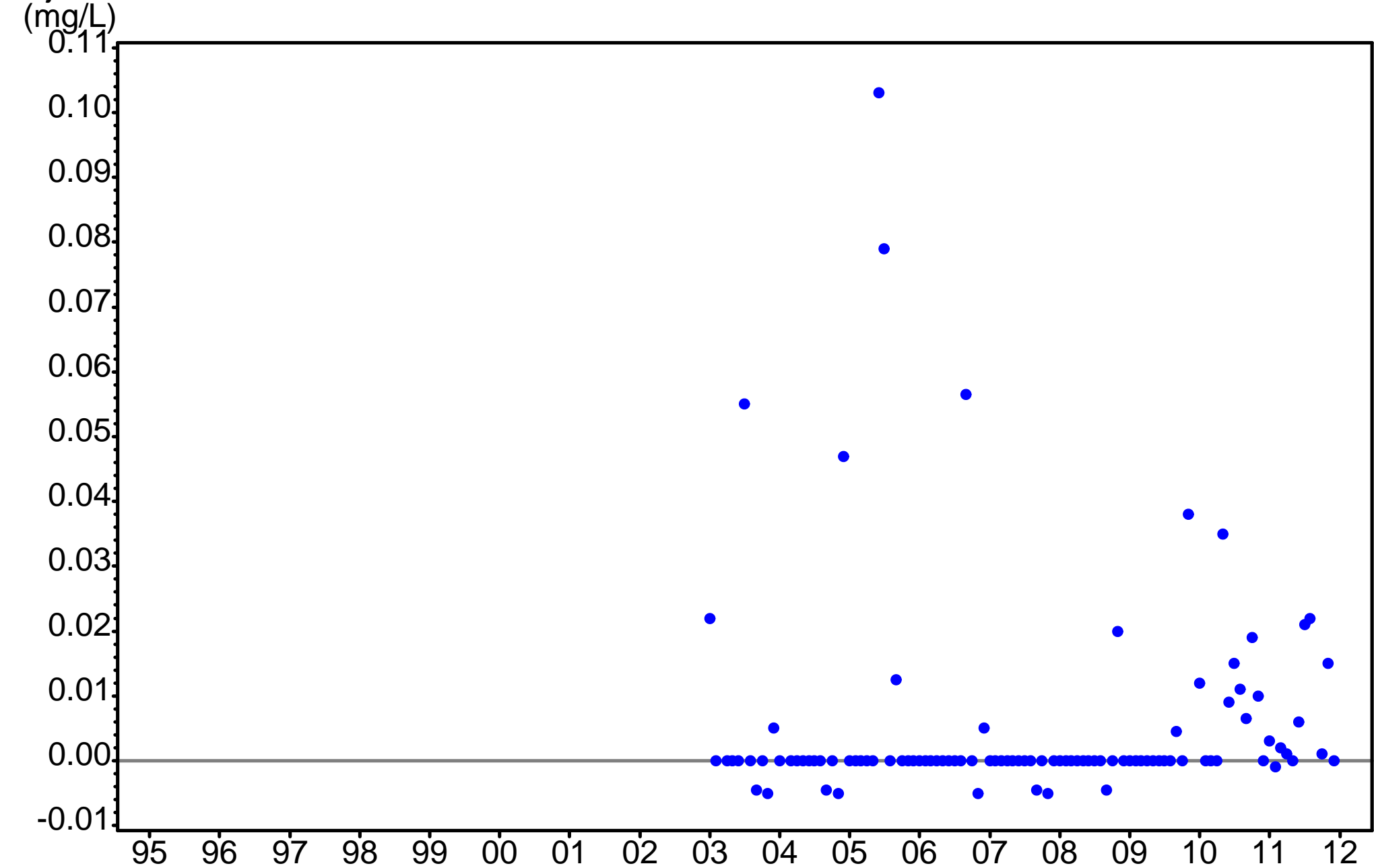
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.133	0.012	0.012	0

Matlacha Pass Trends Appendix - Display 1107
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Orthophosphate in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1575	0.010106	0.11644	0

Matlacha Pass Trends Appendix - Display 1108

Time Series Plot of Surface Dissolved Orthophosphate Data Adjusted for Season and Detrended
Adjusted Matlacha Pass



Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1109

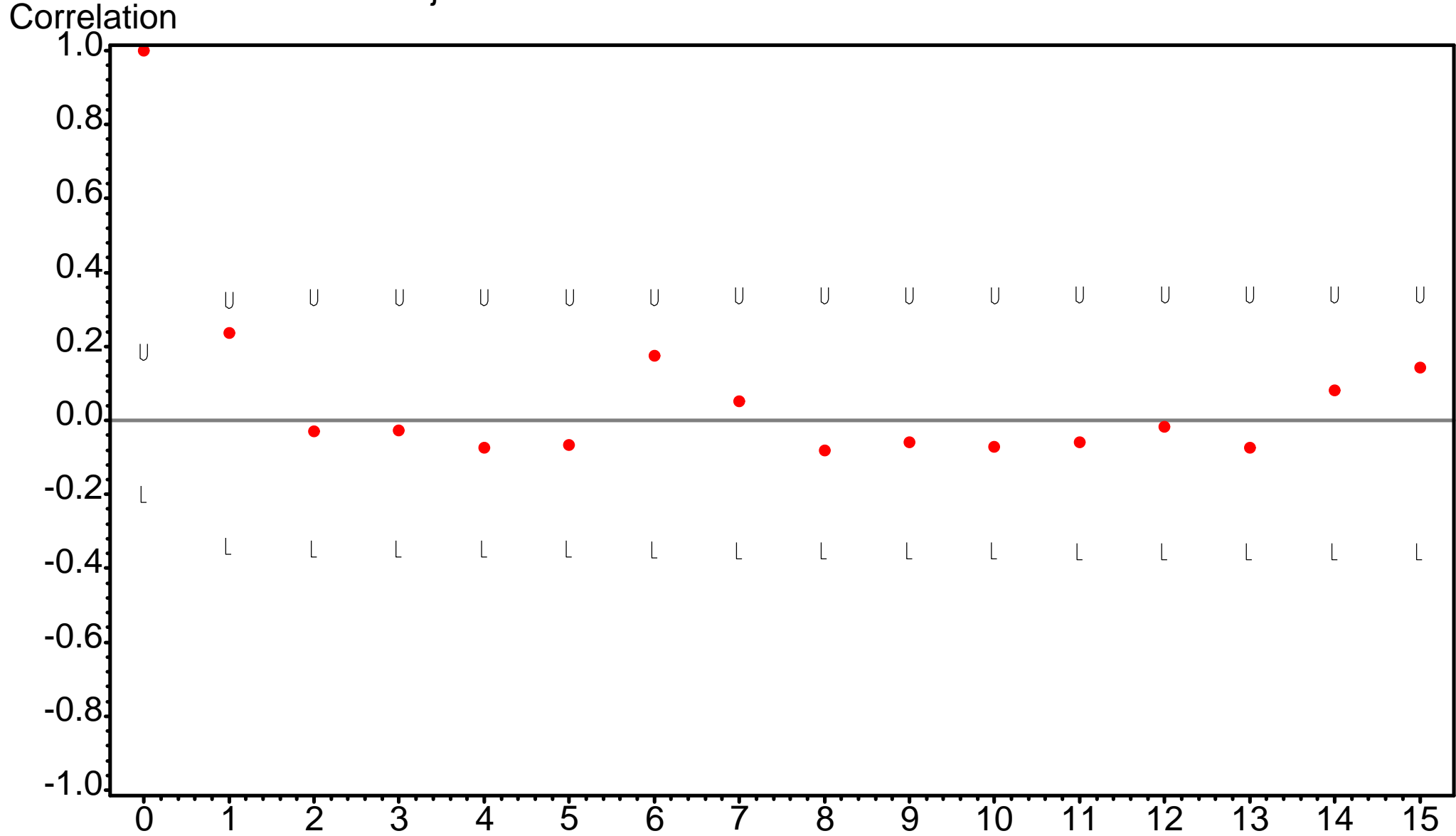
Autocorrelation Statistics for Surface Dissolved Orthophosphate in Matlacha Pass Adjusted for Seasonal Median and Detrended

Lagged Dissolved Orthophosphate	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.236	0.167	0.333	-0.333
2	-0.029	0.170	0.339	-0.339
3	-0.028	0.170	0.340	-0.340
4	-0.073	0.170	0.340	-0.340
5	-0.066	0.170	0.340	-0.340
6	0.176	0.170	0.341	-0.341
7	0.052	0.172	0.344	-0.344
8	-0.080	0.172	0.344	-0.344
9	-0.059	0.173	0.345	-0.345
10	-0.071	0.173	0.345	-0.345
11	-0.059	0.173	0.346	-0.346
12	-0.017	0.173	0.346	-0.346
13	-0.074	0.173	0.346	-0.346
14	0.082	0.173	0.347	-0.347
15	0.142	0.174	0.348	-0.348

Matlacha Pass Trends Appendix - Display 1110

Correlogram for Surface Dissolved Orthophosphate in Matlacha Pass

Adjusted for Seasonal Median and Detrended



Lagged Dissolved Orthophosphate

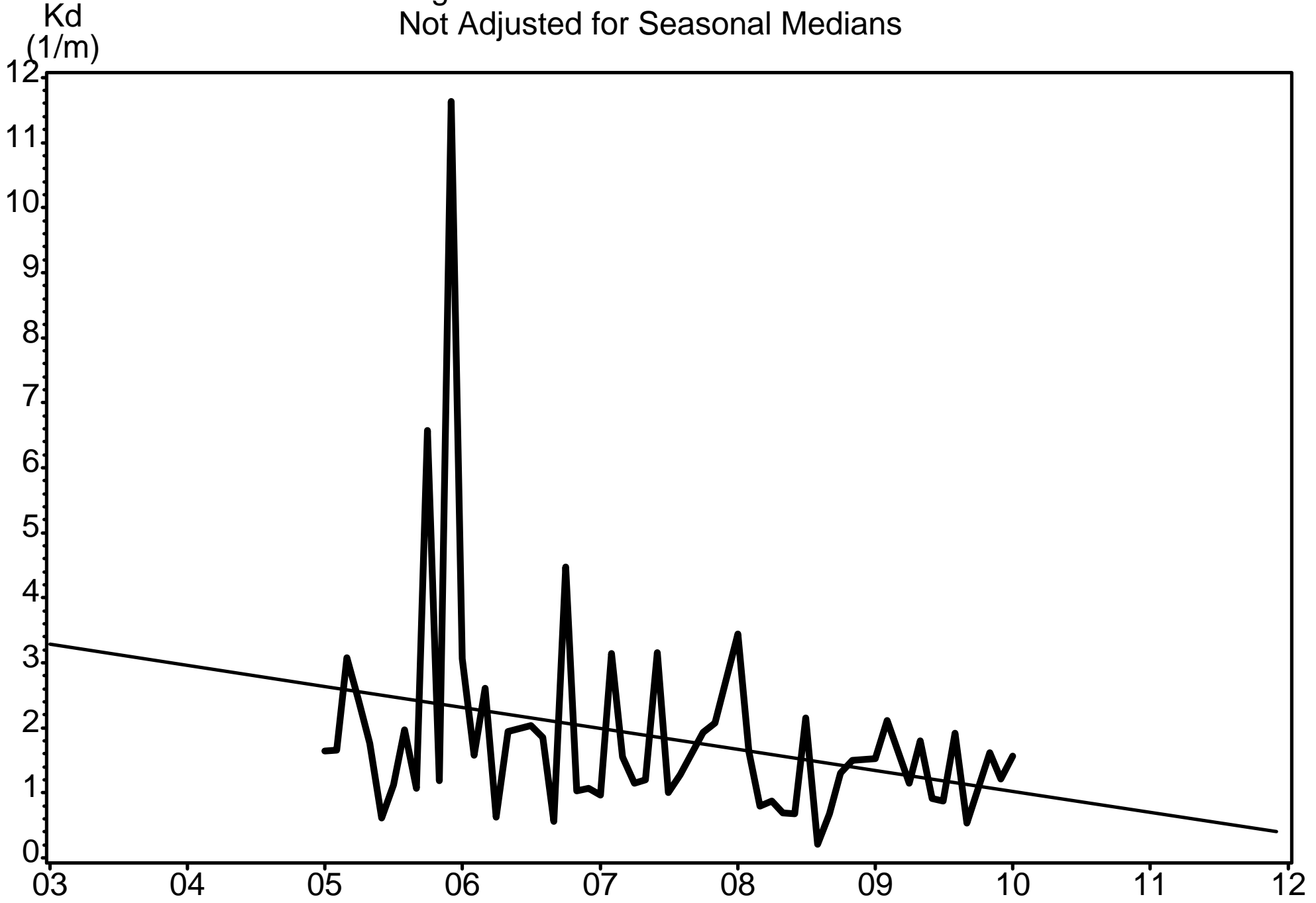
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1111

Monthly Data Time Series

for Surface Light Attenuation Coefficient in Matlacha Pass

Not Adjusted for Seasonal Medians



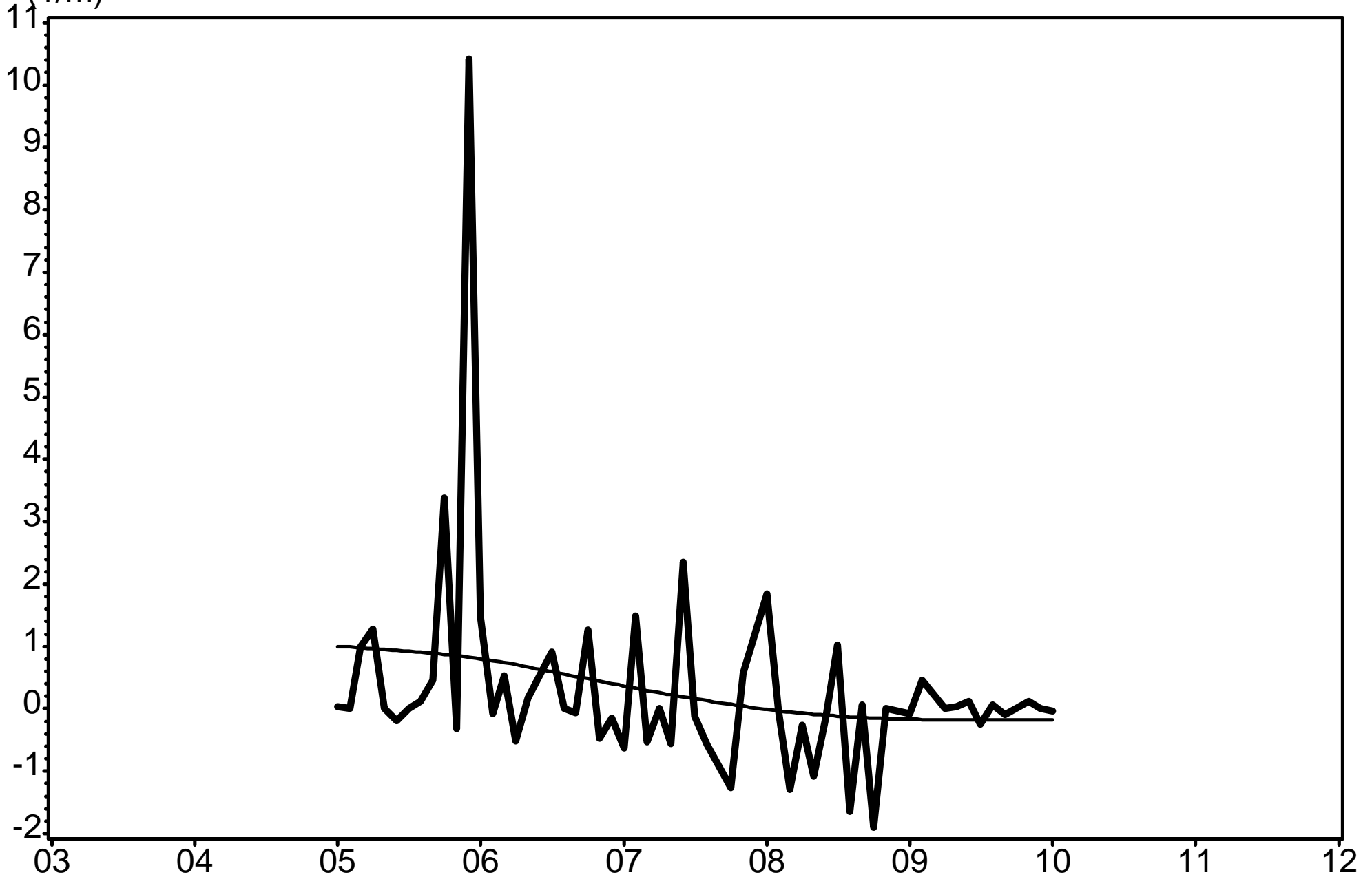
Matlacha Pass Trends Appendix - Display 1112

Monthly Data Time Series

for Surface Light Attenuation Coefficient in Matlacha Pass

Adjusted for Seasonal Medians

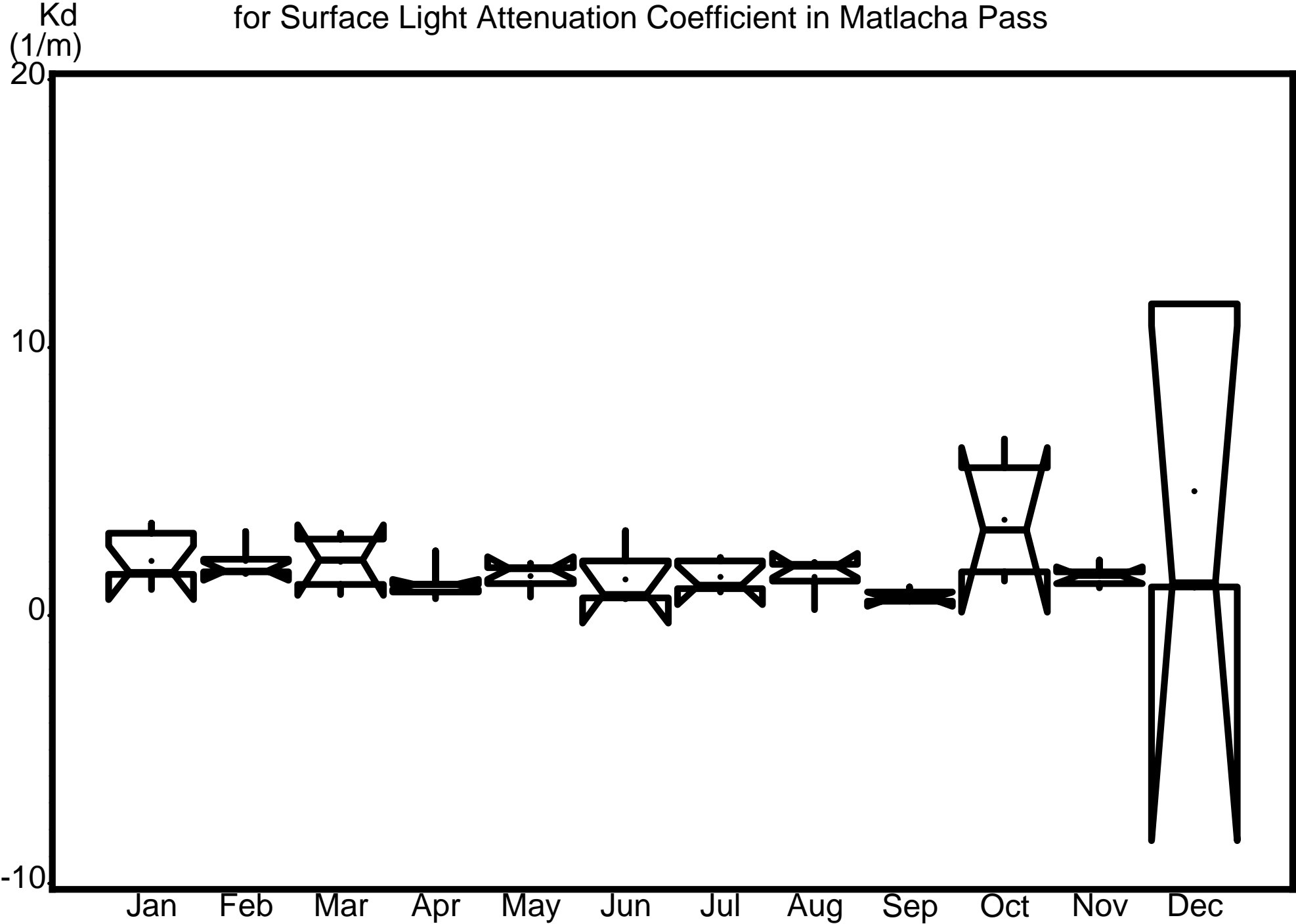
Adjusted
Kd
(1/m)



Matlacha Pass Trends Appendix - Display 1113

Seasonal Univariate Statistics

for Surface Light Attenuation Coefficient in Matlacha Pass



Matlacha Pass Trends Appendix - Display 1114

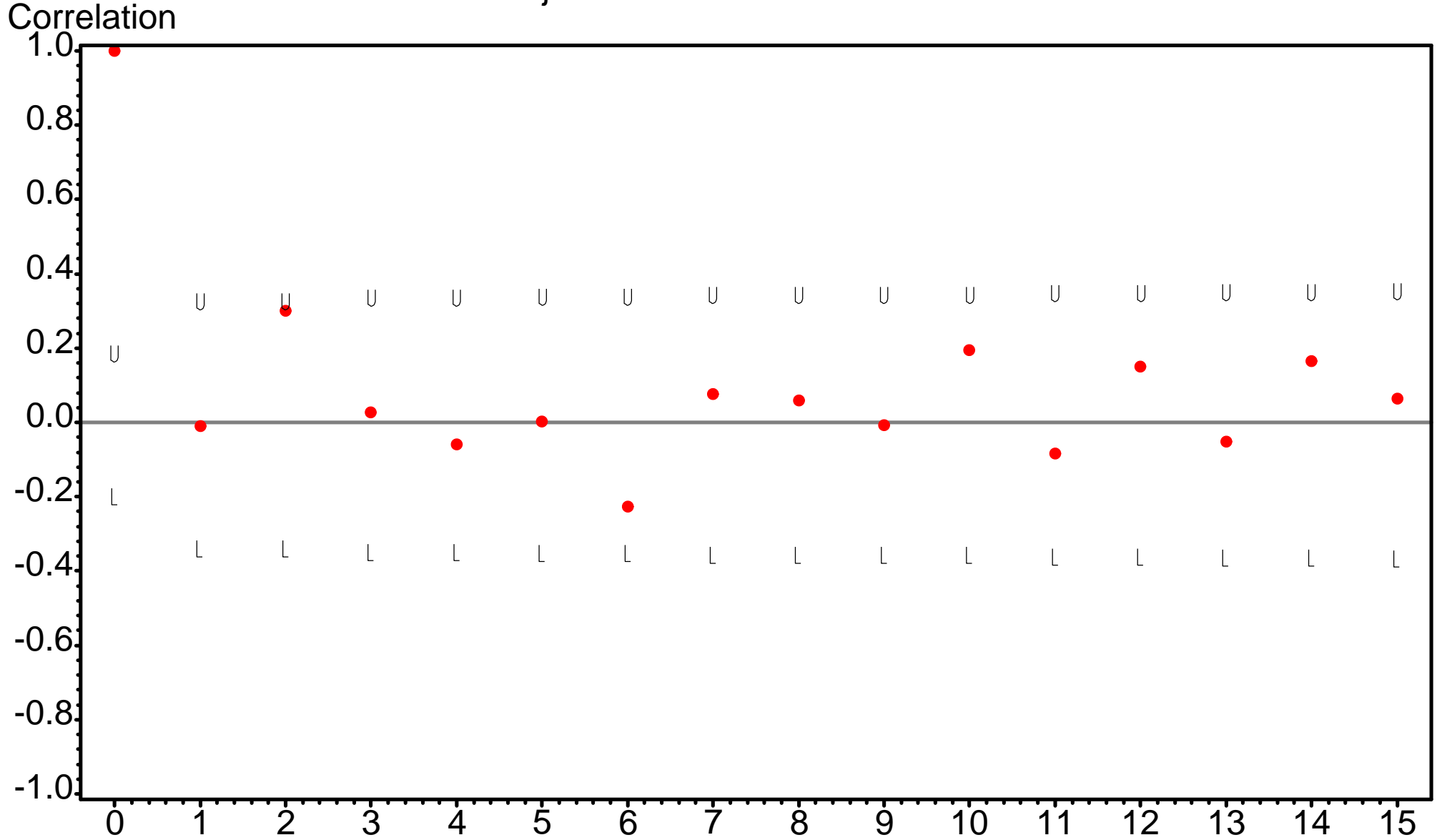
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Matlacha Pass

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.011	0.167	0.333	-0.333
2	0.300	0.167	0.333	-0.333
3	0.028	0.172	0.343	-0.343
4	-0.060	0.172	0.343	-0.343
5	0.002	0.172	0.344	-0.344
6	-0.226	0.172	0.344	-0.344
7	0.077	0.175	0.349	-0.349
8	0.059	0.175	0.350	-0.350
9	-0.007	0.175	0.350	-0.350
10	0.195	0.175	0.350	-0.350
11	-0.084	0.177	0.354	-0.354
12	0.149	0.177	0.355	-0.355
13	-0.051	0.179	0.357	-0.357
14	0.164	0.179	0.357	-0.357
15	0.065	0.180	0.360	-0.360

Matlacha Pass Trends Appendix - Display 1115

Correlogram for Surface Light Attenuation Coefficient in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1116
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Matlacha Pass
Unadjusted for Seasonal Medians

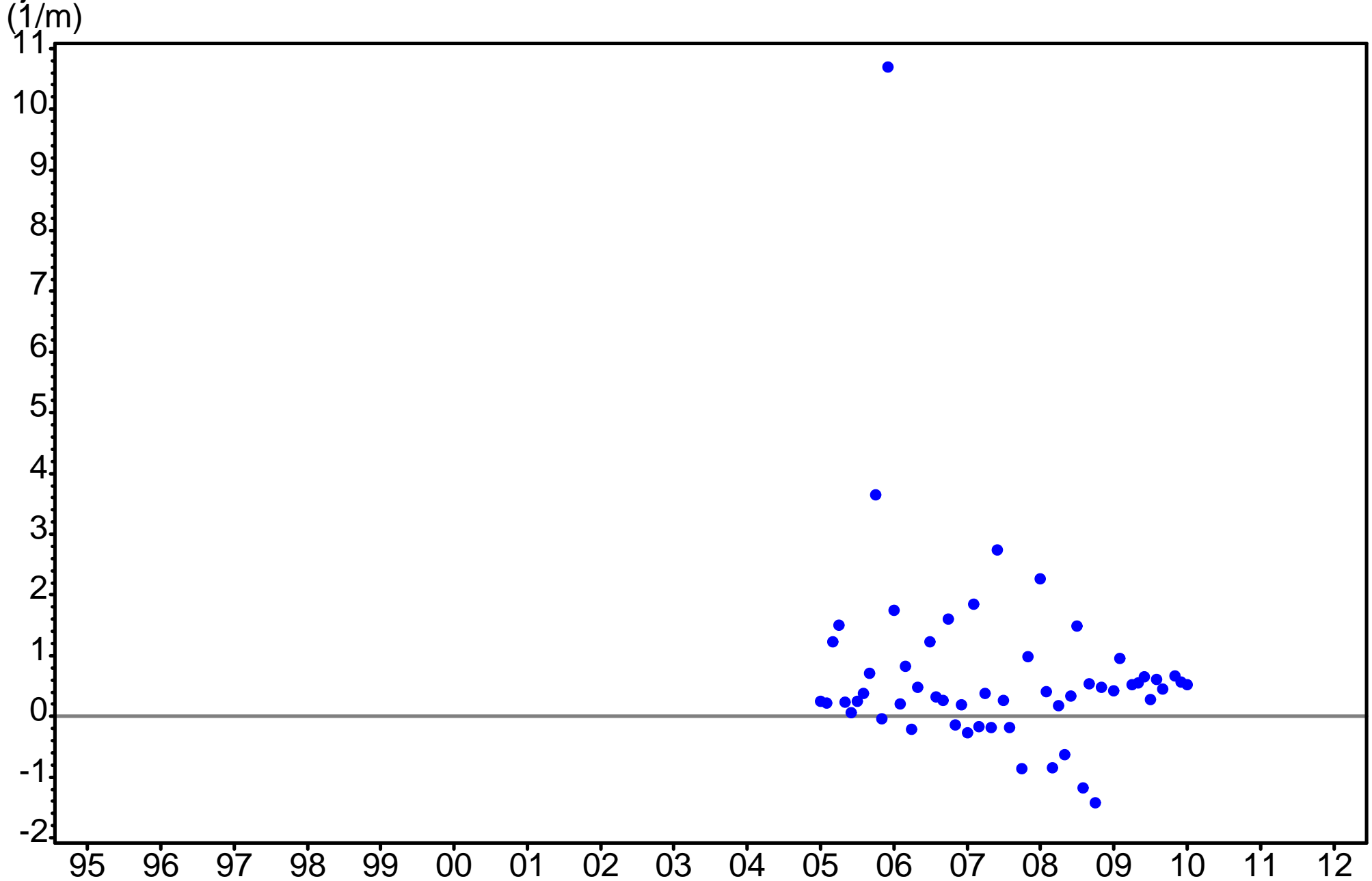
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.18	0.053	0.053	-0.144

Matlacha Pass Trends Appendix - Display 1117
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.17647	0.18790	0.16324	-0.071

Matlacha Pass Trends Appendix - Display 1118

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Matlacha Pass



Zero Reference Line Shown

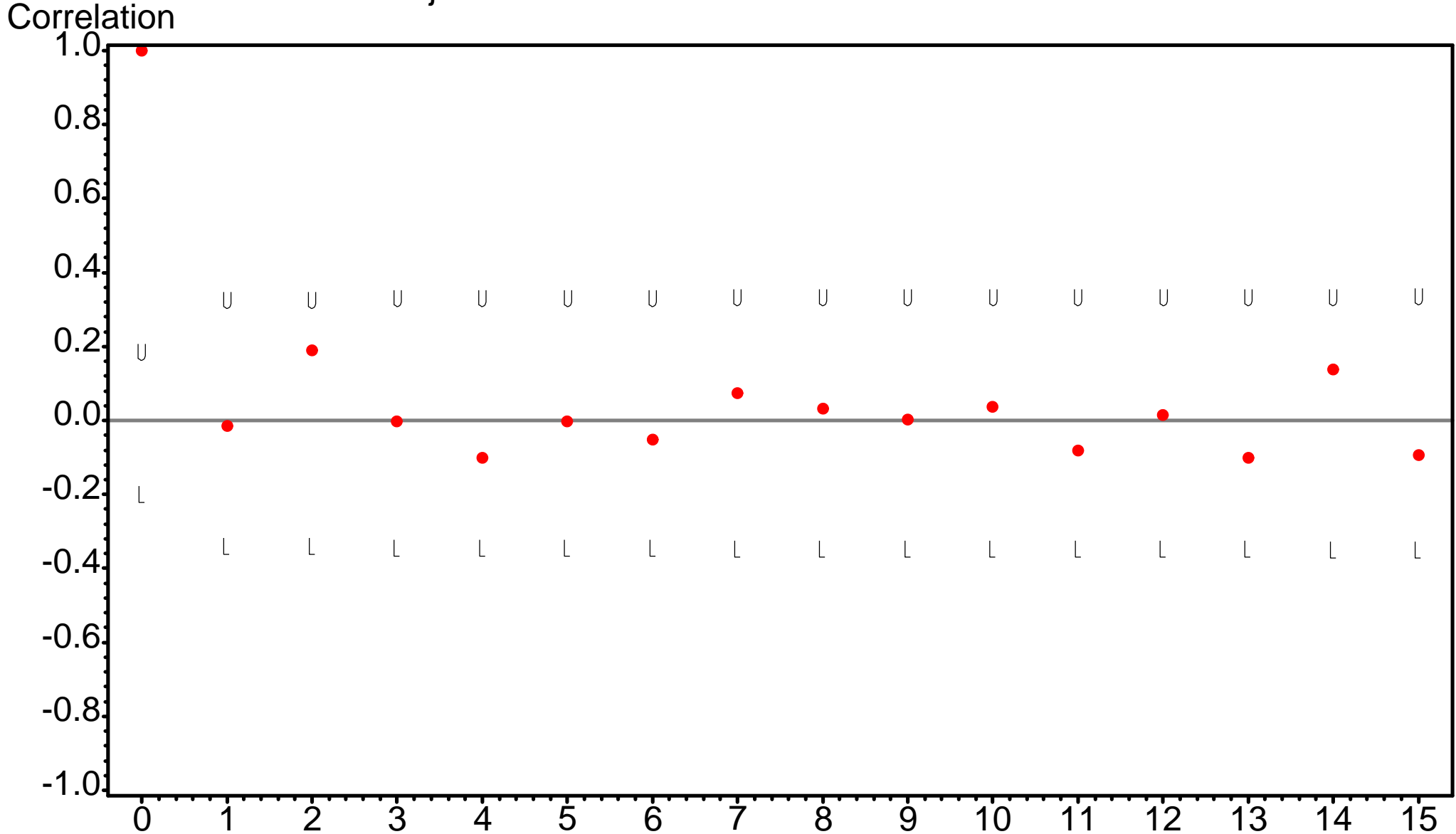
Matlacha Pass Trends Appendix - Display 1119

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Matlacha Pass Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.014	0.167	0.333	-0.333
2	0.190	0.167	0.333	-0.333
3	-0.003	0.169	0.337	-0.337
4	-0.101	0.169	0.337	-0.337
5	-0.003	0.169	0.338	-0.338
6	-0.051	0.169	0.338	-0.338
7	0.073	0.169	0.339	-0.339
8	0.031	0.170	0.339	-0.339
9	0.002	0.170	0.339	-0.339
10	0.036	0.170	0.339	-0.339
11	-0.080	0.170	0.340	-0.340
12	0.015	0.170	0.340	-0.340
13	-0.101	0.170	0.340	-0.340
14	0.138	0.171	0.341	-0.341
15	-0.094	0.172	0.343	-0.343

Matlacha Pass Trends Appendix - Display 1120

Correlogram for Surface Light Attenuation Coefficient in Matlacha Pass
Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

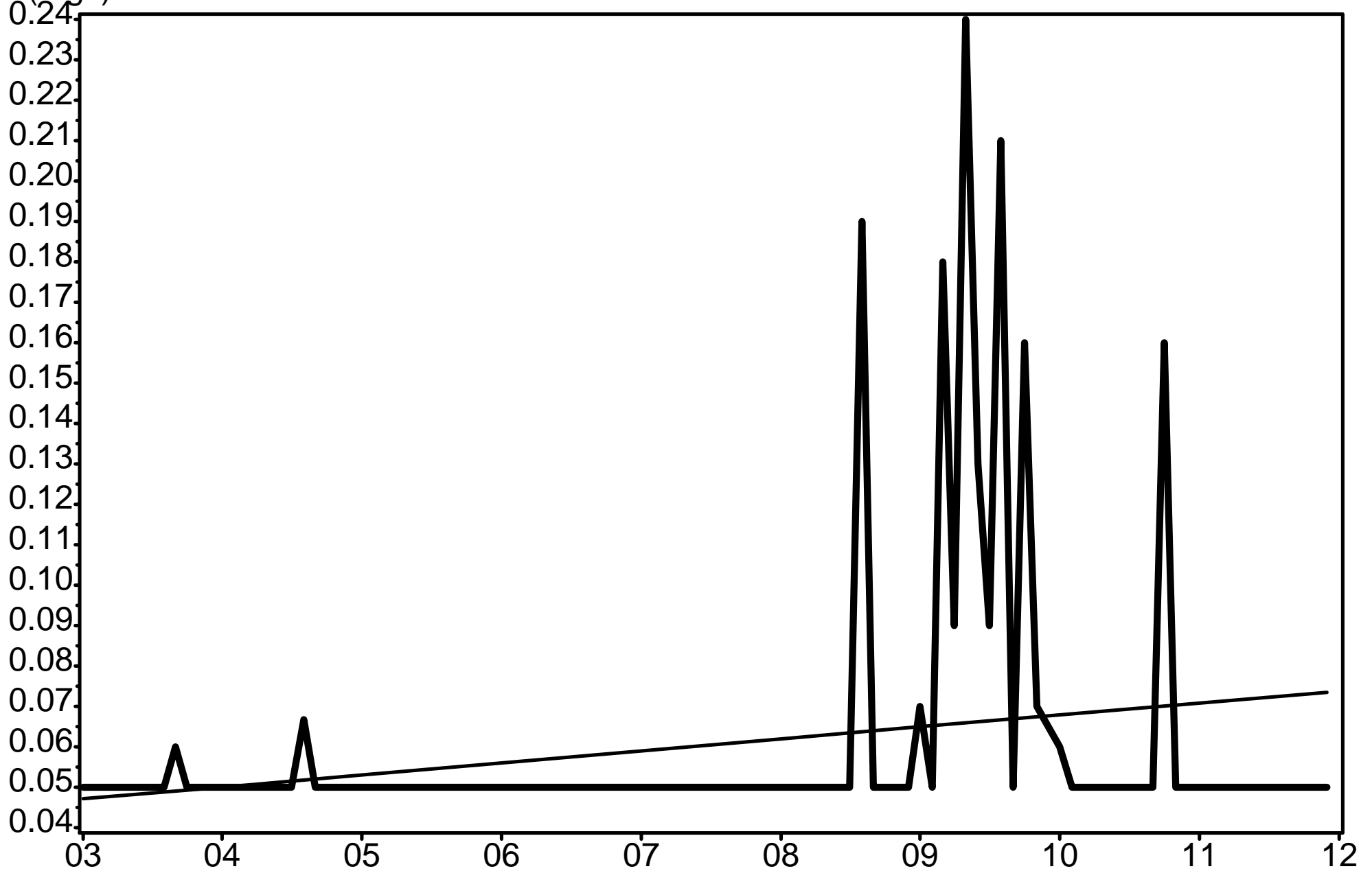
Matlacha Pass Trends Appendix - Display 1121

Monthly Data Time Series

for Surface Ammonia as N Total in Matlacha Pass

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



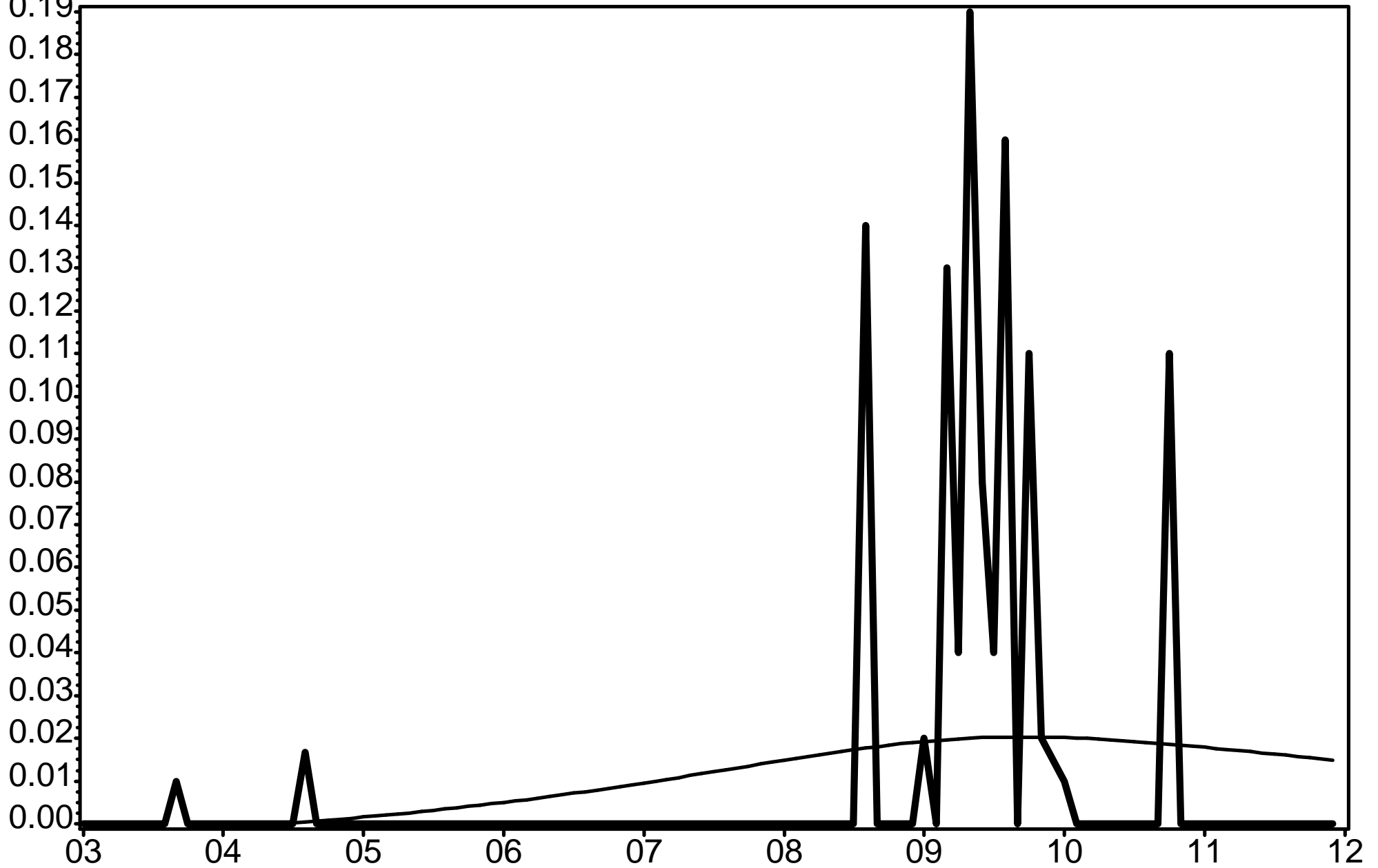
Matlacha Pass Trends Appendix - Display 1122

Monthly Data Time Series

for Surface Ammonia as N Total in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
NH3_mgl
(mg/l)

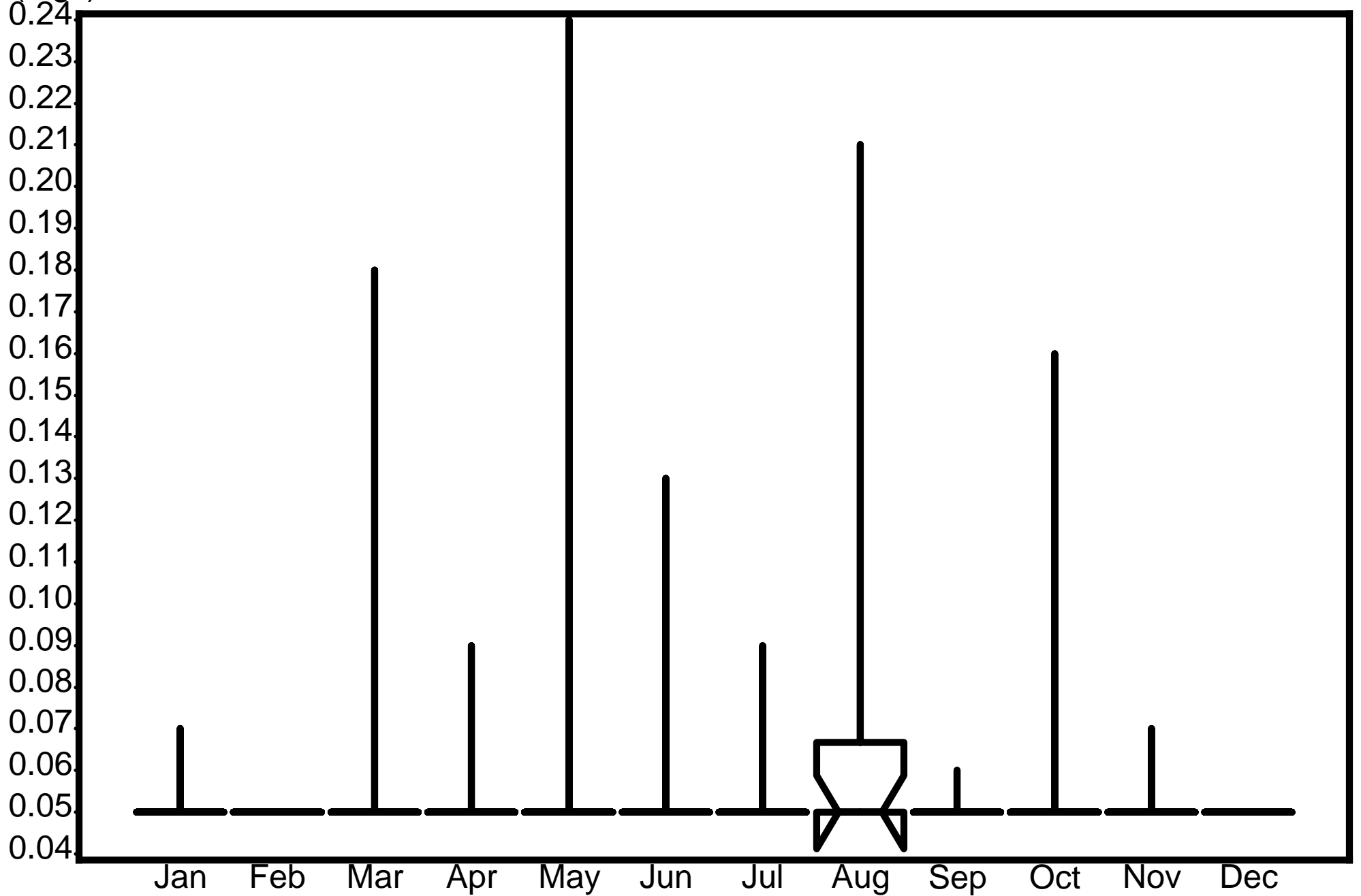


Matlacha Pass Trends Appendix - Display 1123

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Matlacha Pass

NH3_mgl
(mg/l)



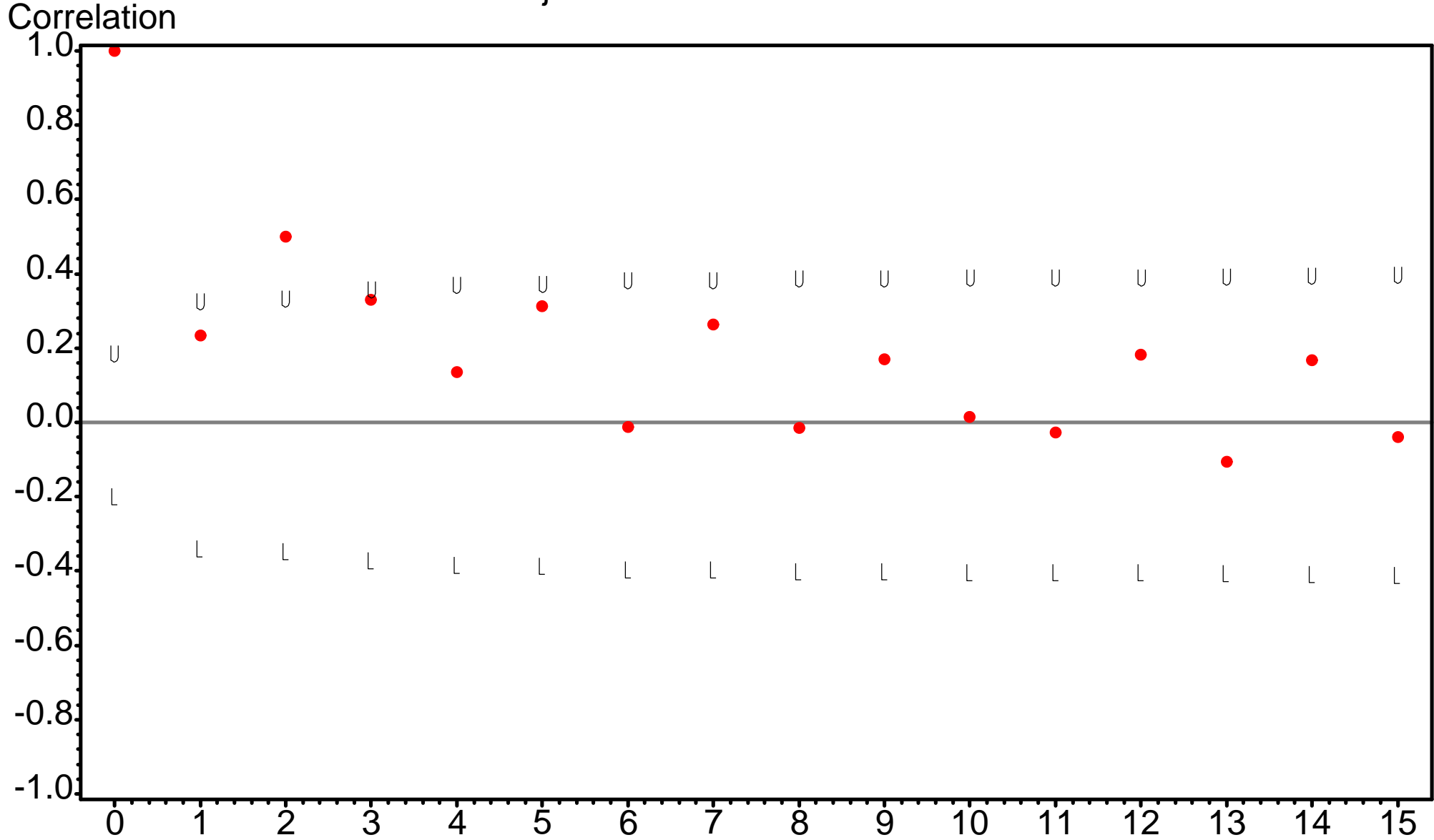
Matlacha Pass Trends Appendix - Display 1124
Autocorrelation Statistics for Surface Ammonia as N Total in Matlacha Pass

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.234	0.167	0.333	-0.333
2	0.499	0.170	0.339	-0.339
3	0.330	0.183	0.365	-0.365
4	0.136	0.188	0.376	-0.376
5	0.313	0.189	0.378	-0.378
6	-0.013	0.194	0.388	-0.388
7	0.263	0.194	0.388	-0.388
8	-0.015	0.197	0.394	-0.394
9	0.171	0.197	0.394	-0.394
10	0.015	0.198	0.397	-0.397
11	-0.026	0.198	0.397	-0.397
12	0.182	0.199	0.397	-0.397
13	-0.107	0.200	0.400	-0.400
14	0.167	0.201	0.401	-0.401
15	-0.039	0.202	0.404	-0.404

Matlacha Pass Trends Appendix - Display 1125

Correlogram for Surface Ammonia as N Total in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1126
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.082	0.038	0.038	0

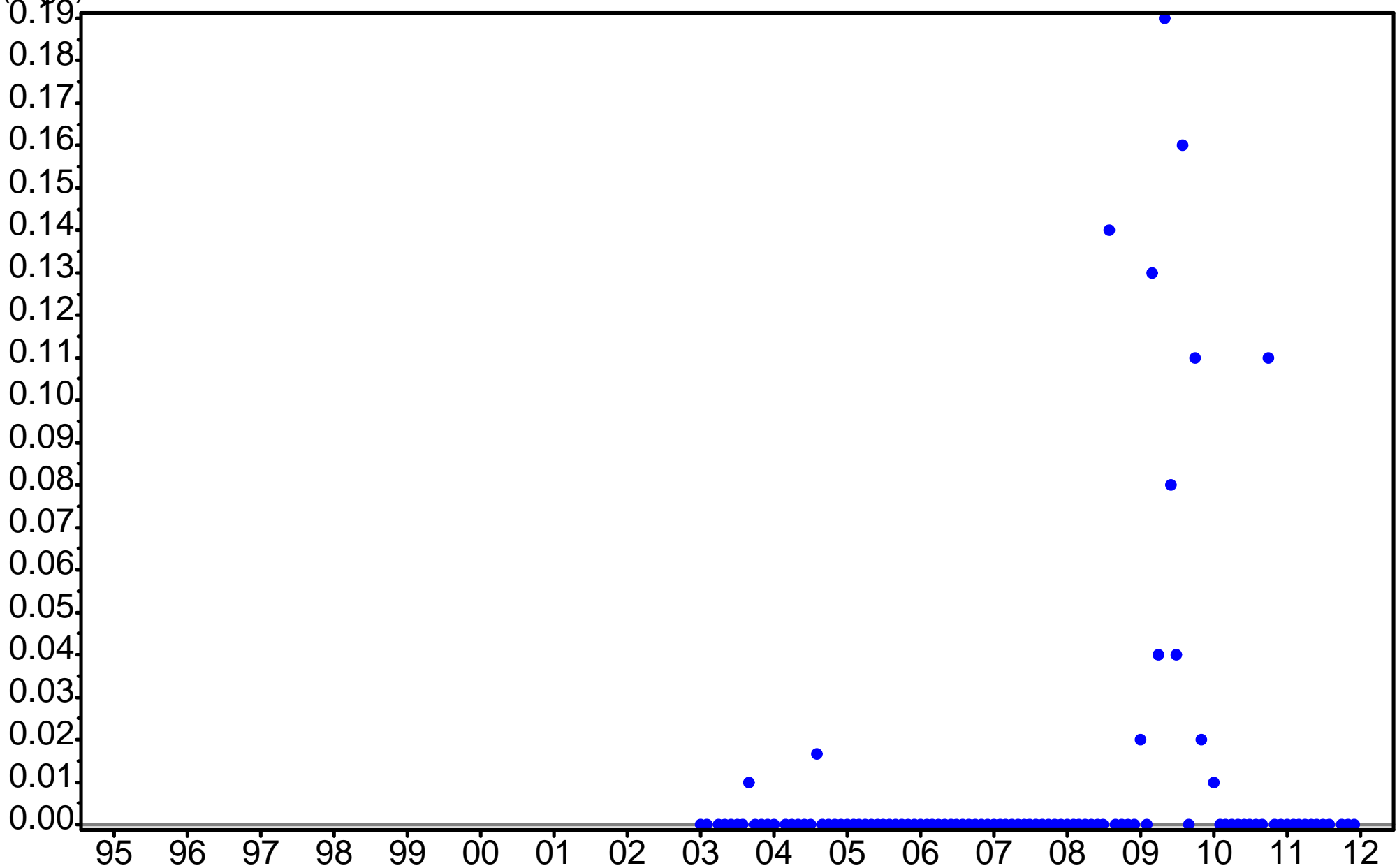
Matlacha Pass Trends Appendix - Display 1127
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.095	0.042706	0.41780	0

Matlacha Pass Trends Appendix - Display 1128

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(mg/l)



Zero Reference Line Shown

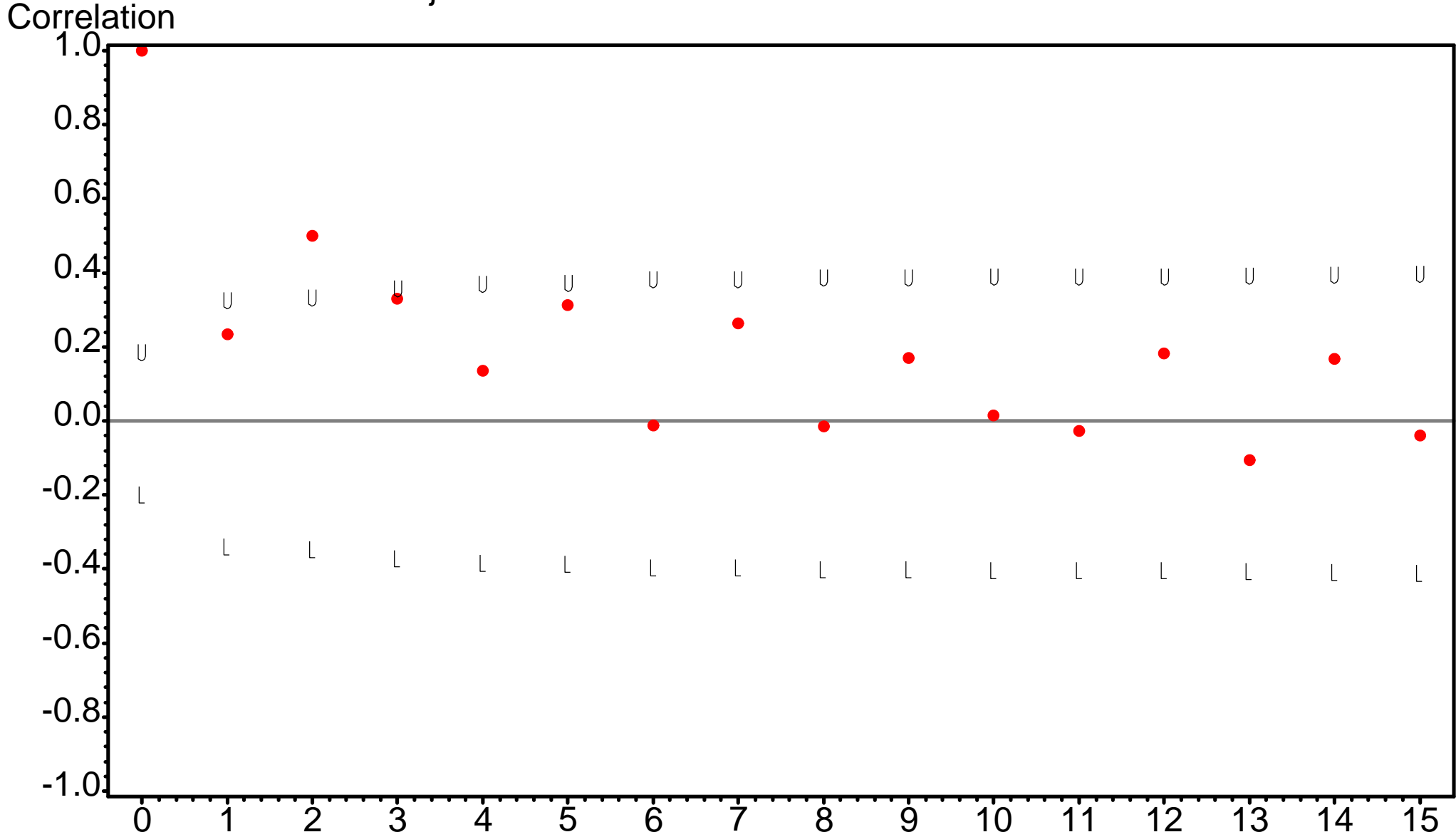
Matlacha Pass Trends Appendix - Display 1129
Autocorrelation Statistics for Surface Ammonia as N Total in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.234	0.167	0.333	-0.333
2	0.499	0.170	0.339	-0.339
3	0.330	0.183	0.365	-0.365
4	0.136	0.188	0.376	-0.376
5	0.313	0.189	0.378	-0.378
6	-0.013	0.194	0.388	-0.388
7	0.263	0.194	0.388	-0.388
8	-0.015	0.197	0.394	-0.394
9	0.171	0.197	0.394	-0.394
10	0.015	0.198	0.397	-0.397
11	-0.026	0.198	0.397	-0.397
12	0.182	0.199	0.397	-0.397
13	-0.107	0.200	0.400	-0.400
14	0.167	0.201	0.401	-0.401
15	-0.039	0.202	0.404	-0.404

Matlacha Pass Trends Appendix - Display 1130

Correlogram for Surface Ammonia as N Total in Matlacha Pass

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

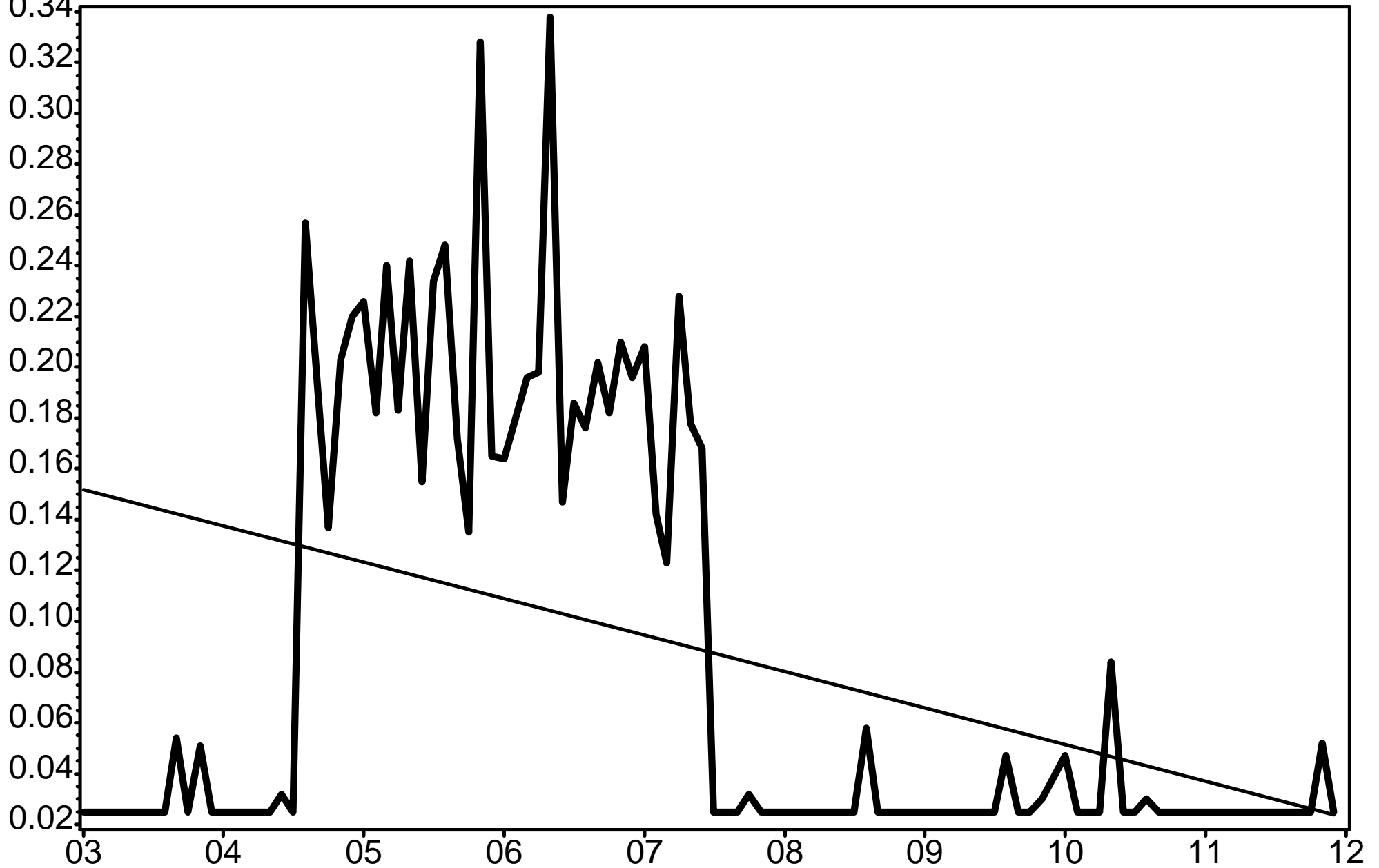
Matlacha Pass Trends Appendix - Display 1131

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Matlacha Pass

Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)



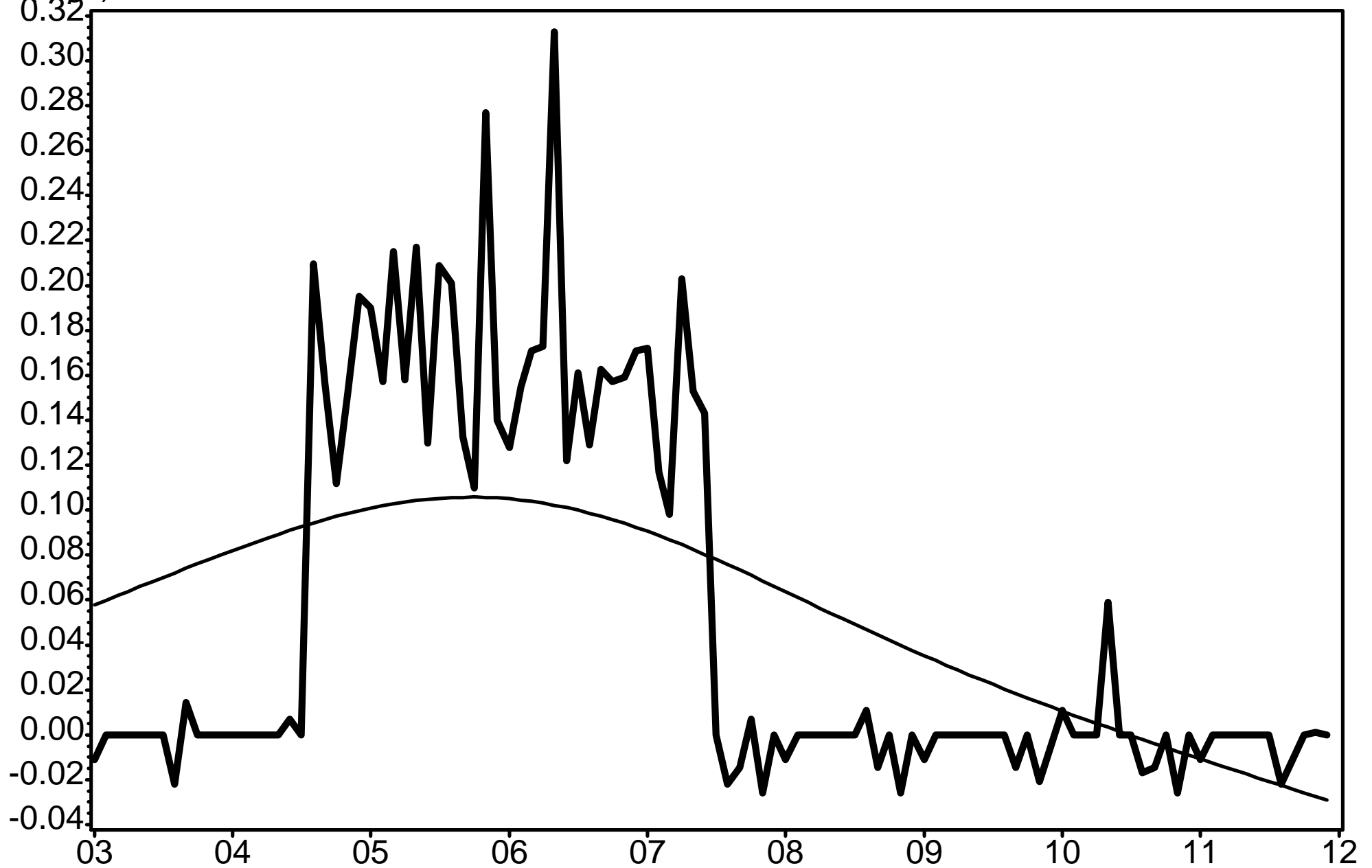
Matlacha Pass Trends Appendix - Display 1132

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
NO3_mgl
(mg/l)

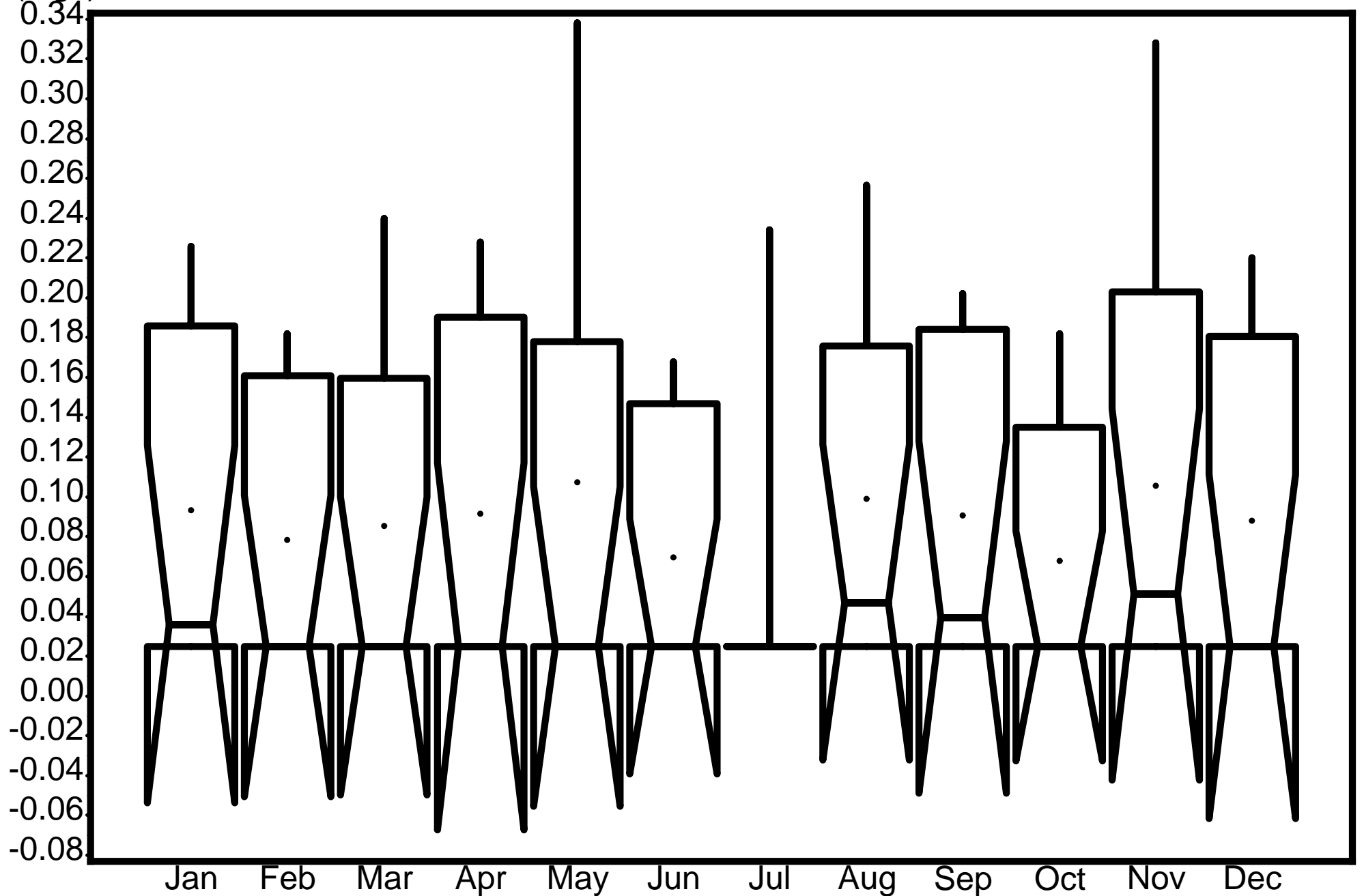


Matlacha Pass Trends Appendix - Display 1133

Seasonal Univariate Statistics

for Surface Nitrite (TOTAL AS N) in Matlacha Pass

NO3_mgl
(mg/l)



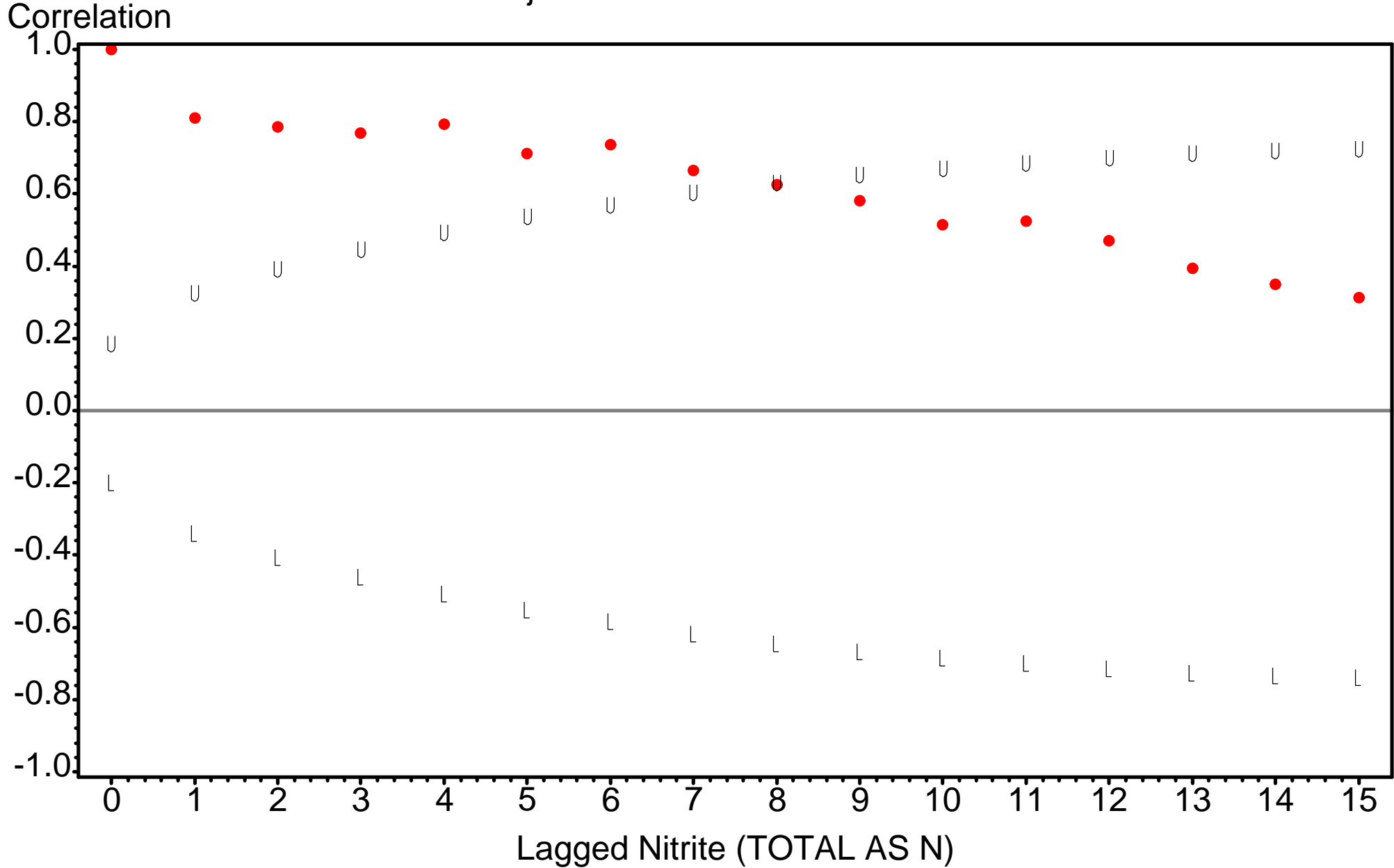
Matlacha Pass Trends Appendix - Display 1134
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Matlacha Pass

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.809	0.167	0.333	-0.333
2	0.785	0.200	0.399	-0.399
3	0.769	0.227	0.453	-0.453
4	0.792	0.250	0.499	-0.499
5	0.711	0.272	0.544	-0.544
6	0.736	0.289	0.577	-0.577
7	0.665	0.305	0.611	-0.611
8	0.625	0.319	0.637	-0.637
9	0.580	0.330	0.659	-0.659
10	0.514	0.339	0.678	-0.678
11	0.524	0.346	0.692	-0.692
12	0.470	0.353	0.707	-0.707
13	0.394	0.359	0.718	-0.718
14	0.349	0.363	0.726	-0.726
15	0.312	0.366	0.732	-0.732

Matlacha Pass Trends Appendix - Display 1135

Correlogram for Surface Nitrite (TOTAL AS N) in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1136
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.267	0	0	0

Matlacha Pass Trends Appendix - Display 1137
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.30469	.000025451	0.12382	-.00175

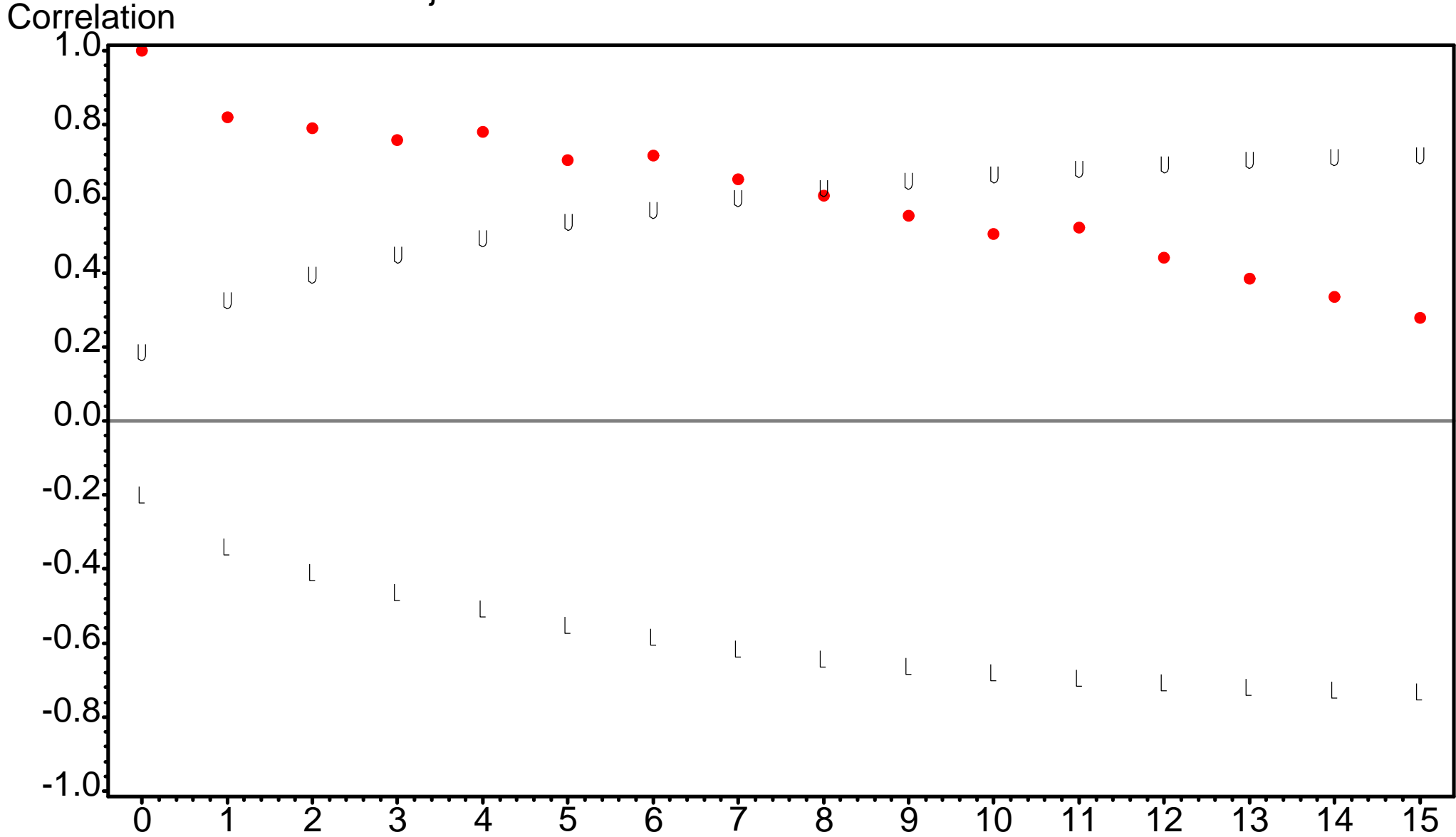
Matlacha Pass Trends Appendix - Display 1139
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.821	0.167	0.333	-0.333
2	0.790	0.201	0.401	-0.401
3	0.759	0.228	0.455	-0.455
4	0.780	0.250	0.500	-0.500
5	0.705	0.272	0.543	-0.543
6	0.717	0.288	0.576	-0.576
7	0.652	0.304	0.608	-0.608
8	0.609	0.317	0.634	-0.634
9	0.554	0.327	0.655	-0.655
10	0.505	0.336	0.672	-0.672
11	0.521	0.343	0.686	-0.686
12	0.440	0.350	0.700	-0.700
13	0.384	0.355	0.711	-0.711
14	0.336	0.359	0.718	-0.718
15	0.278	0.362	0.724	-0.724

Matlacha Pass Trends Appendix - Display 1140

Correlogram for Surface Nitrite (TOTAL AS N) in Matlacha Pass

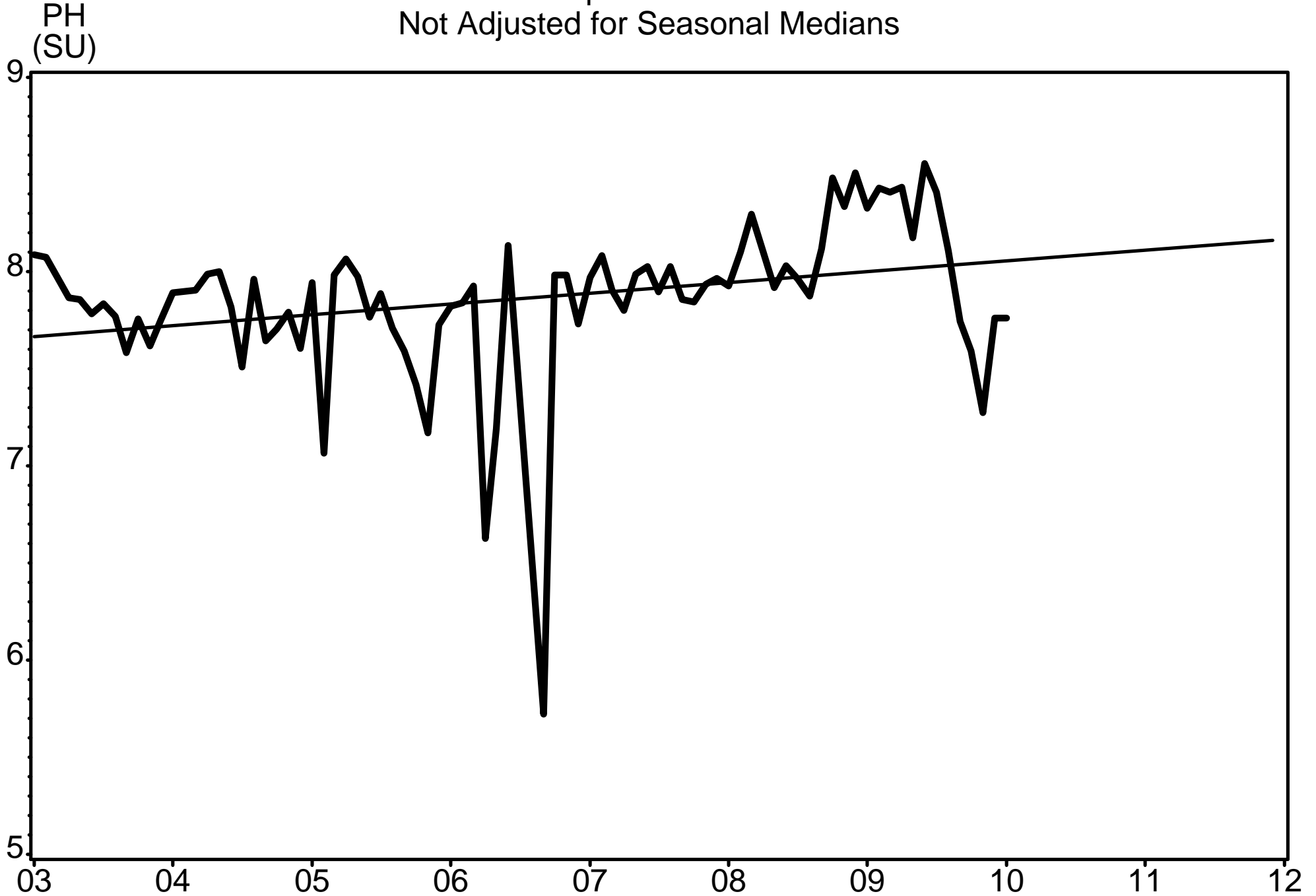
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1141

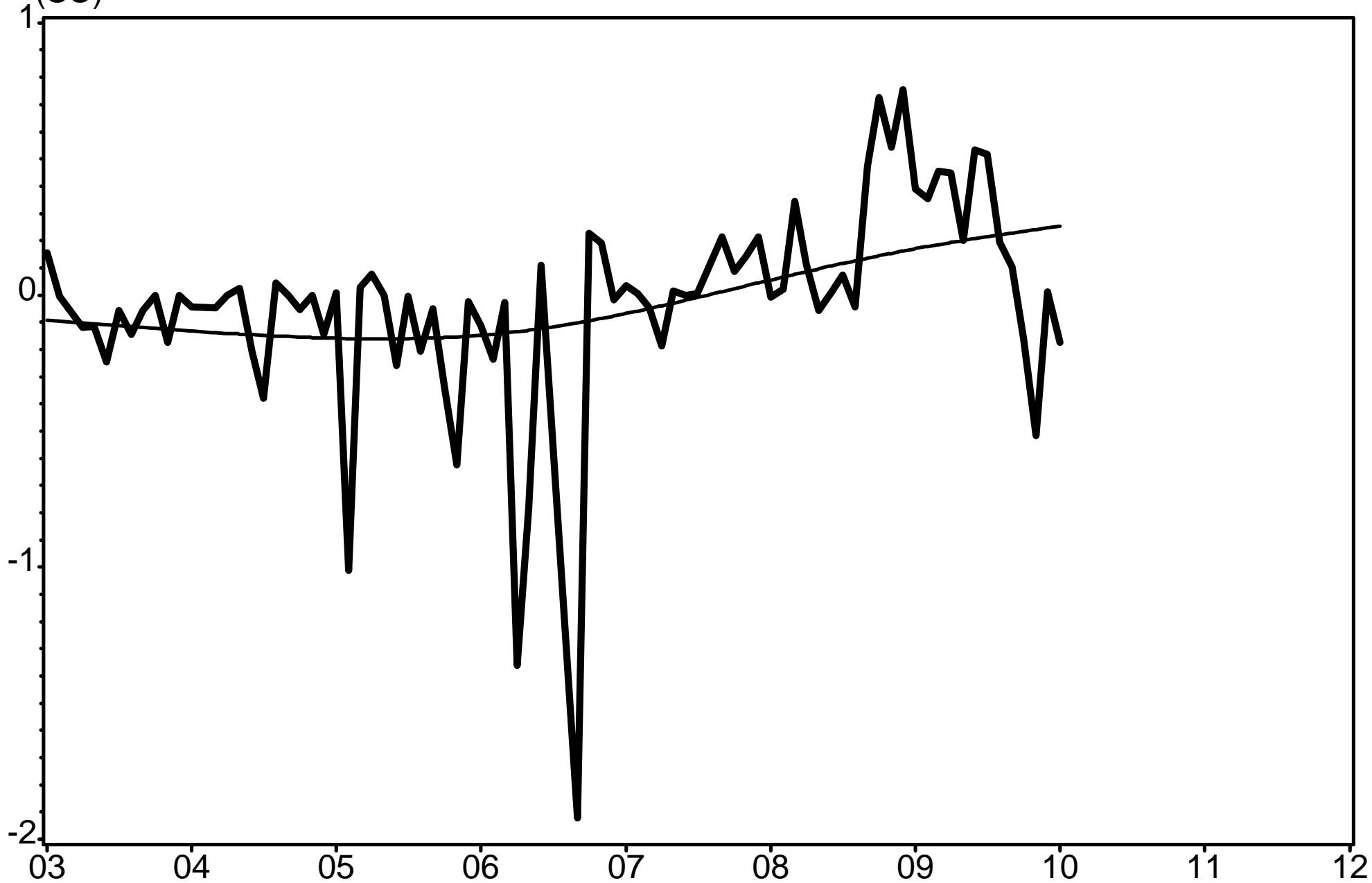
Monthly Data Time Series
for Surface pH in Matlacha Pass
Not Adjusted for Seasonal Medians



Matlacha Pass Trends Appendix - Display 1142

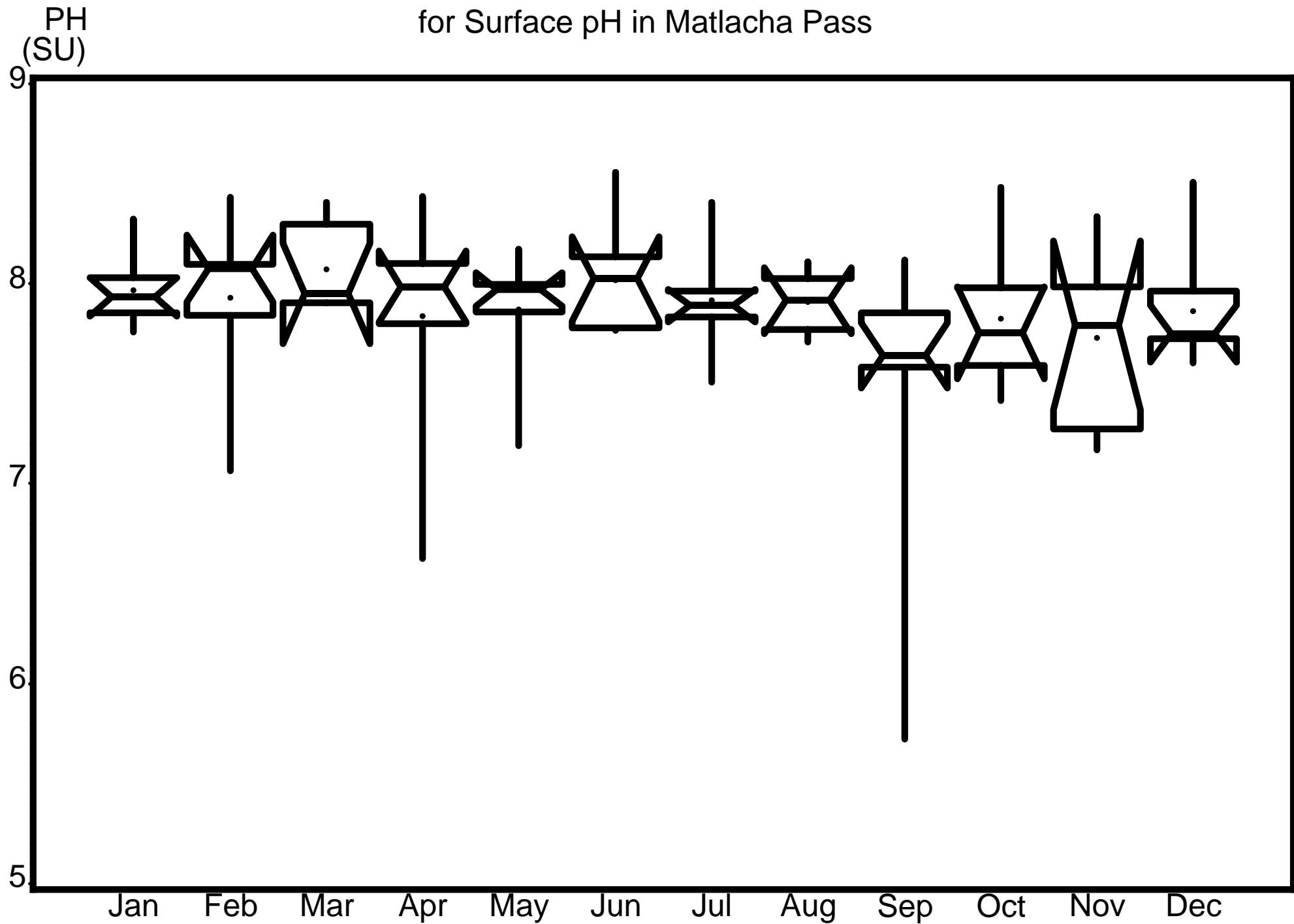
Monthly Data Time Series
for Surface pH in Matlacha Pass
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Matlacha Pass Trends Appendix - Display 1143

Seasonal Univariate Statistics
for Surface pH in Matlacha Pass

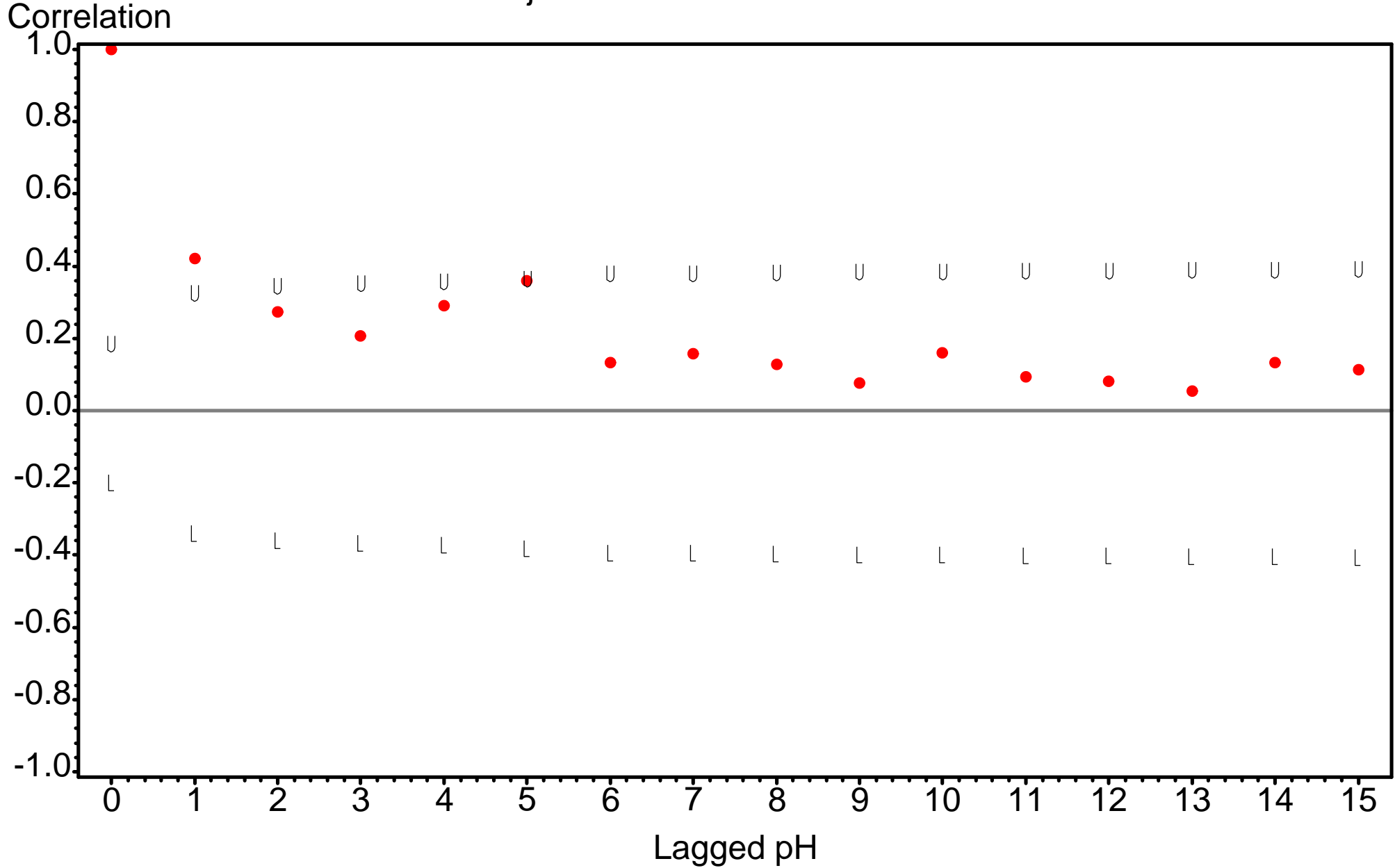


Matlacha Pass Trends Appendix - Display 1144
Autocorrelation Statistics for Surface pH in Matlacha Pass

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.422	0.167	0.333	-0.333
2	0.274	0.176	0.353	-0.353
3	0.208	0.180	0.360	-0.360
4	0.290	0.182	0.365	-0.365
5	0.359	0.187	0.373	-0.373
6	0.134	0.193	0.386	-0.386
7	0.157	0.194	0.387	-0.387
8	0.127	0.195	0.390	-0.390
9	0.077	0.196	0.391	-0.391
10	0.161	0.196	0.392	-0.392
11	0.093	0.197	0.394	-0.394
12	0.082	0.198	0.395	-0.395
13	0.053	0.198	0.396	-0.396
14	0.132	0.198	0.396	-0.396
15	0.114	0.199	0.398	-0.398

Matlacha Pass Trends Appendix - Display 1145

Correlogram for Surface pH in Matlacha Pass
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1146
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.276	0	0	0.055

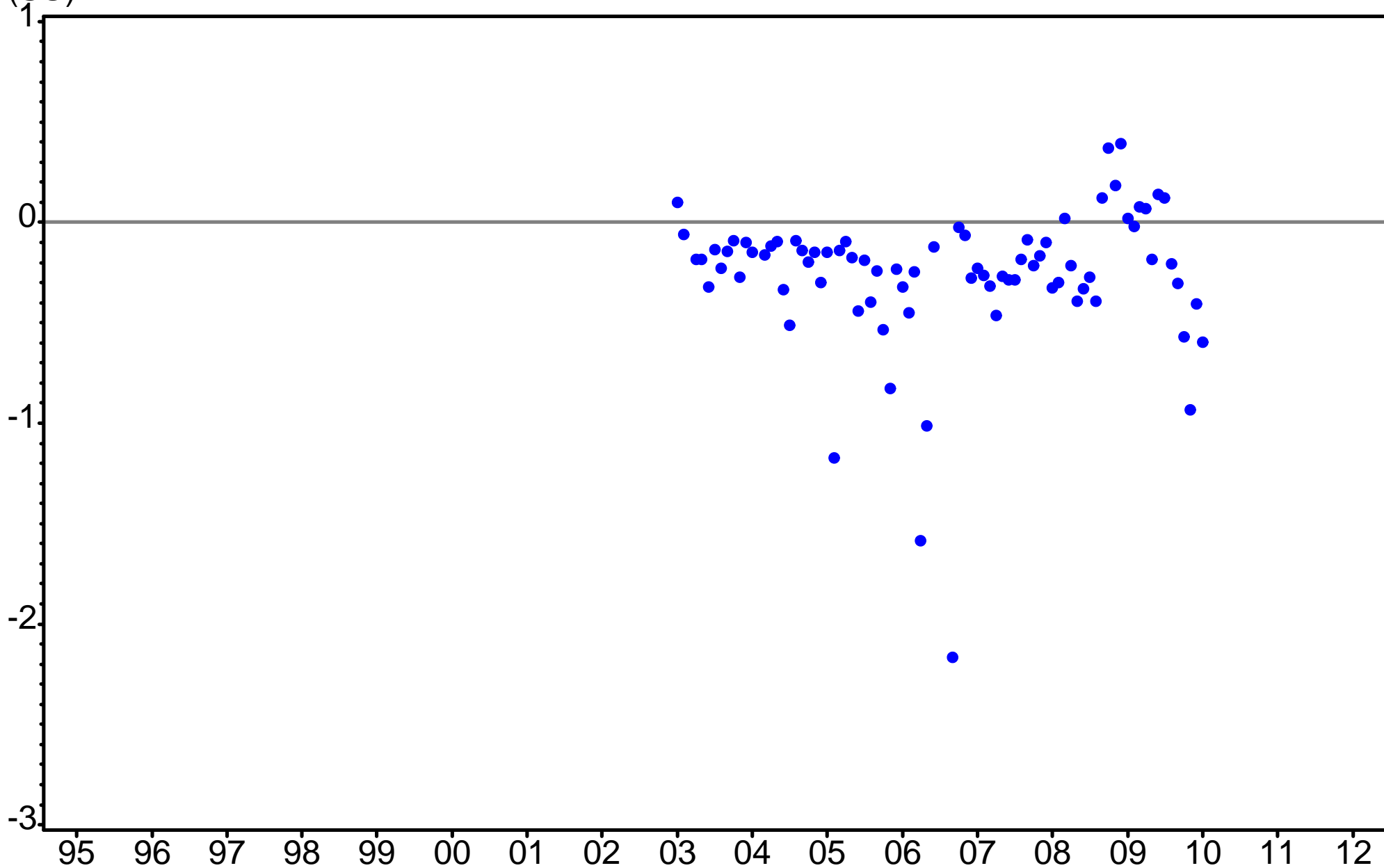
Matlacha Pass Trends Appendix - Display 1147
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.38298	.000056267	0.042994	0.052833

Matlacha Pass Trends Appendix - Display 1148

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(SU)



Zero Reference Line Shown

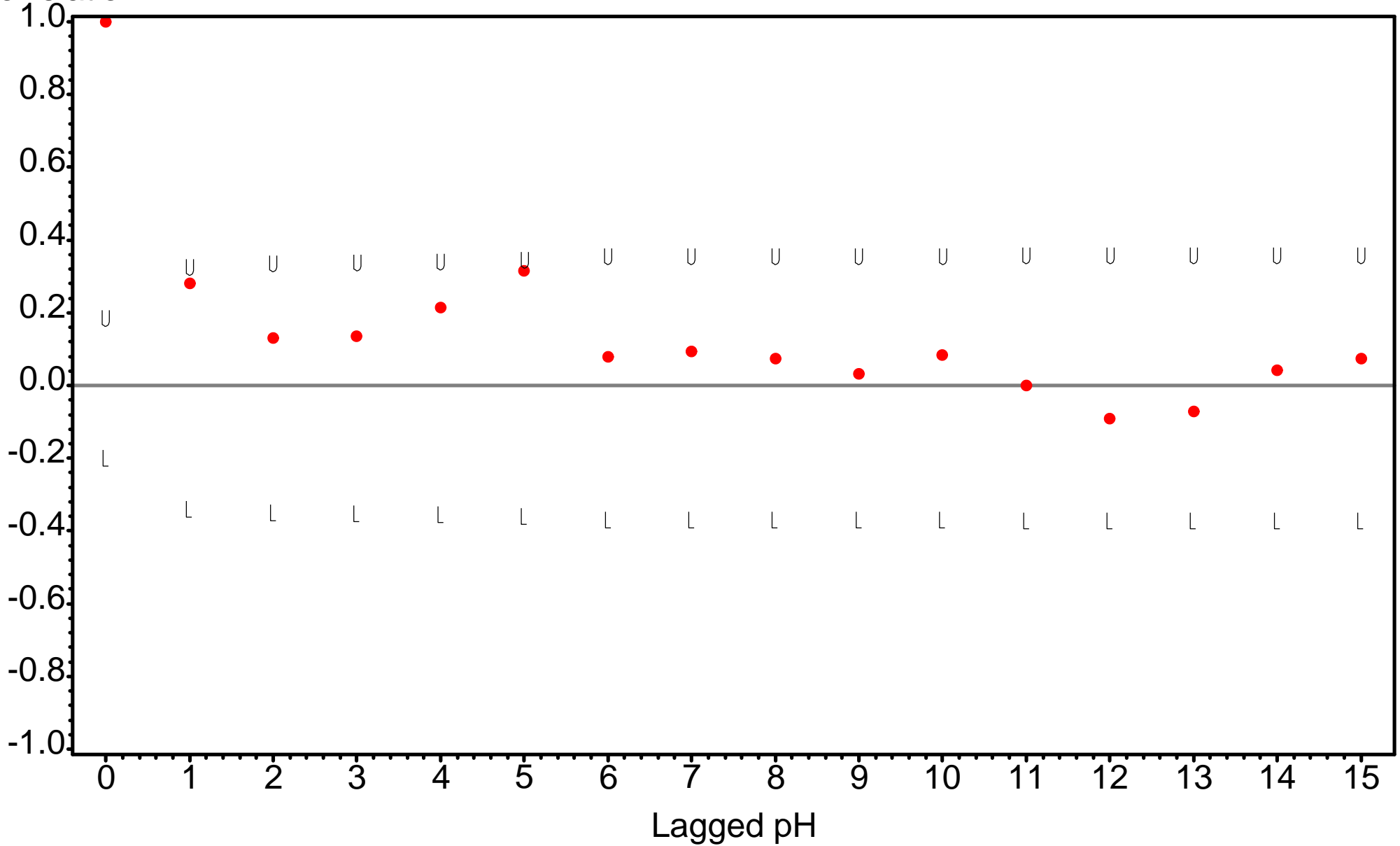
Matlacha Pass Trends Appendix - Display 1149
Autocorrelation Statistics for Surface pH in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.280	0.167	0.333	-0.333
2	0.130	0.171	0.342	-0.342
3	0.136	0.172	0.344	-0.344
4	0.214	0.173	0.346	-0.346
5	0.315	0.175	0.351	-0.351
6	0.080	0.180	0.361	-0.361
7	0.094	0.181	0.362	-0.362
8	0.073	0.181	0.363	-0.363
9	0.032	0.182	0.363	-0.363
10	0.083	0.182	0.363	-0.363
11	0.000	0.182	0.364	-0.364
12	-0.090	0.182	0.364	-0.364
13	-0.072	0.182	0.365	-0.365
14	0.043	0.183	0.365	-0.365
15	0.073	0.183	0.365	-0.365

Matlacha Pass Trends Appendix - Display 1150

Correlogram for Surface pH in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Correlation

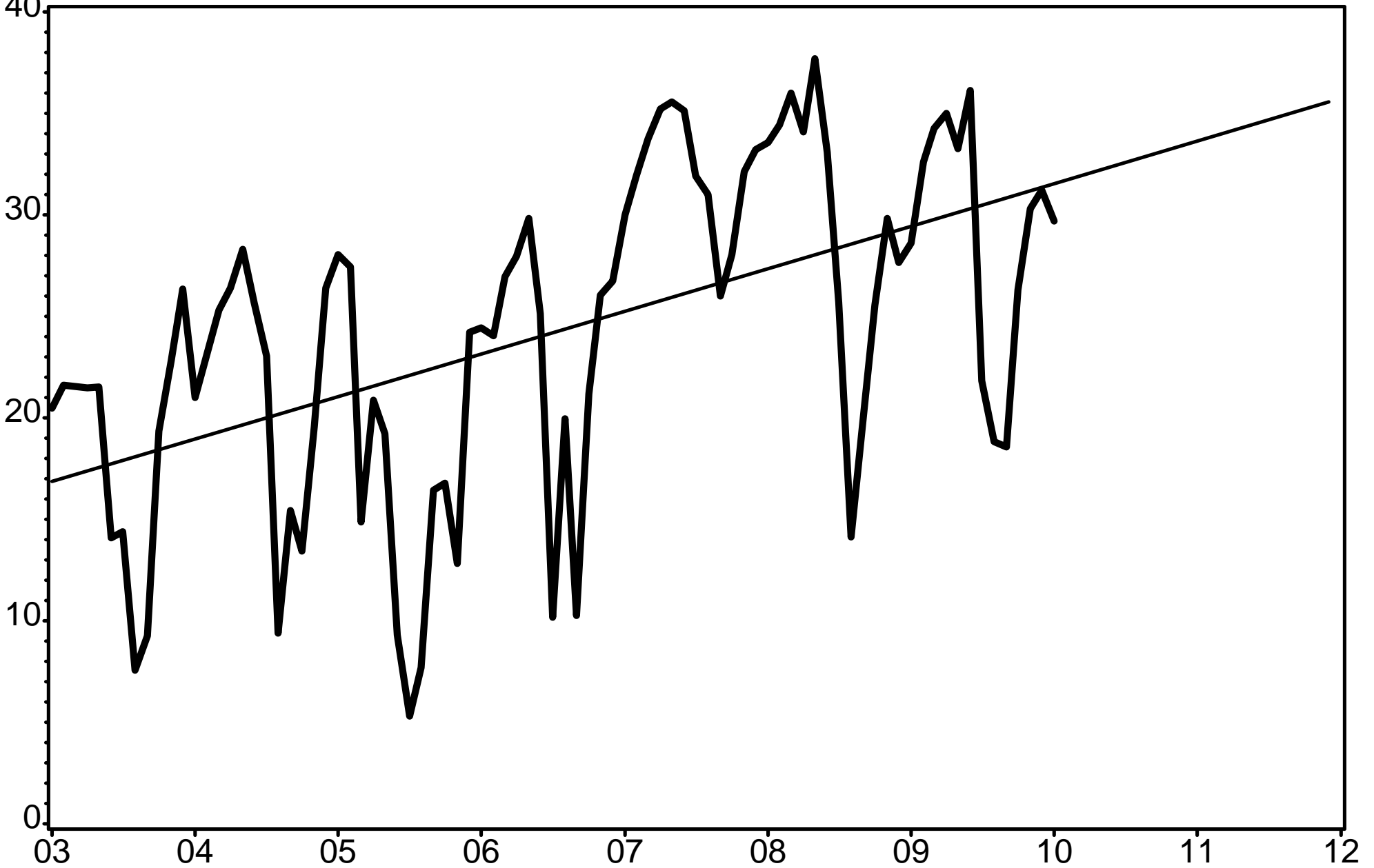


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1151

Monthly Data Time Series
for Surface Salinity in Matlacha Pass
Not Adjusted for Seasonal Medians

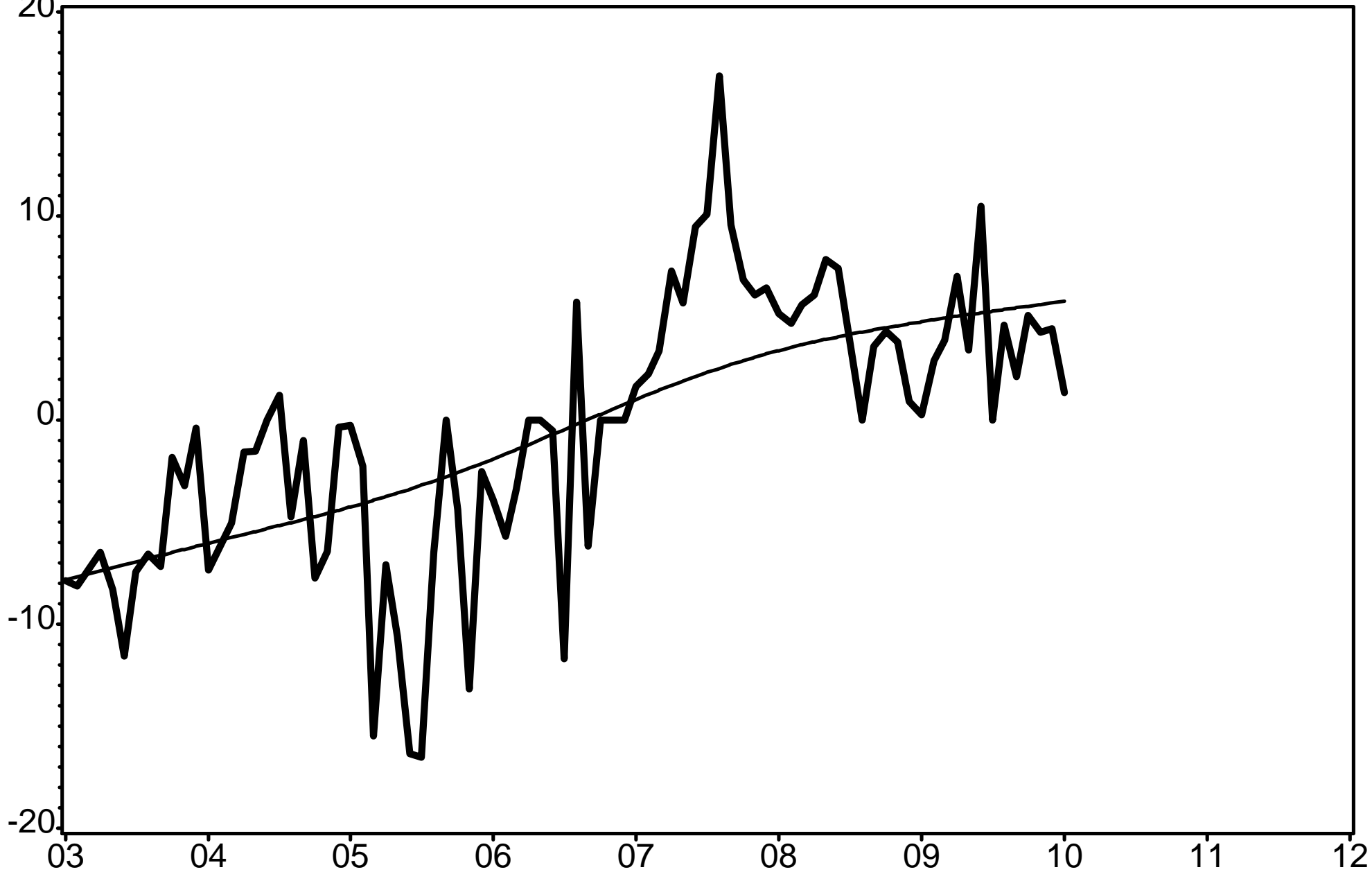
Salinity
(ppt)



Matlacha Pass Trends Appendix - Display 1152

Monthly Data Time Series
for Surface Salinity in Matlacha Pass
Adjusted for Seasonal Medians

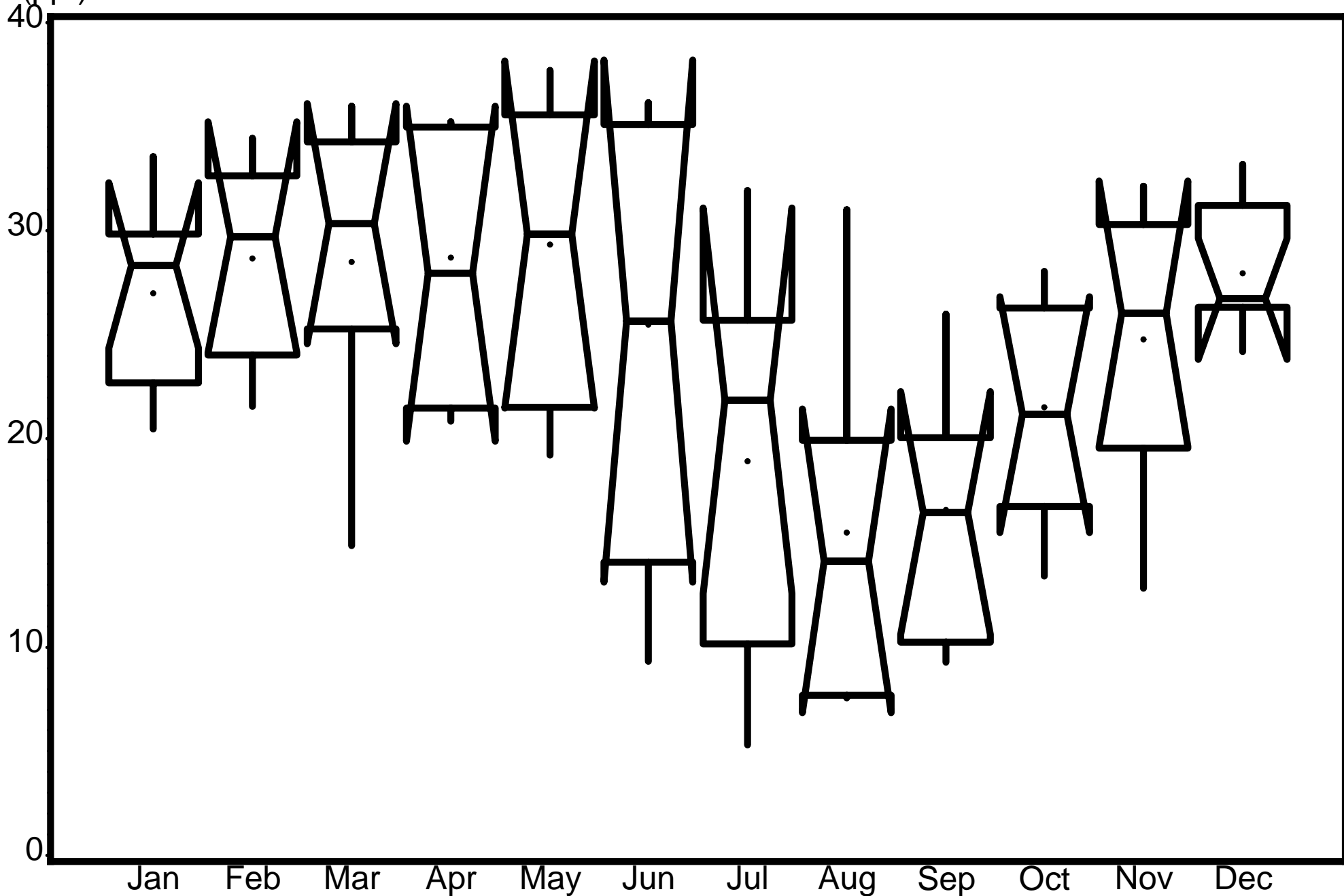
Adjusted
Salinity
(ppt)



Matlacha Pass Trends Appendix - Display 1153

Seasonal Univariate Statistics for Surface Salinity in Matlacha Pass

Salinity
(ppt)

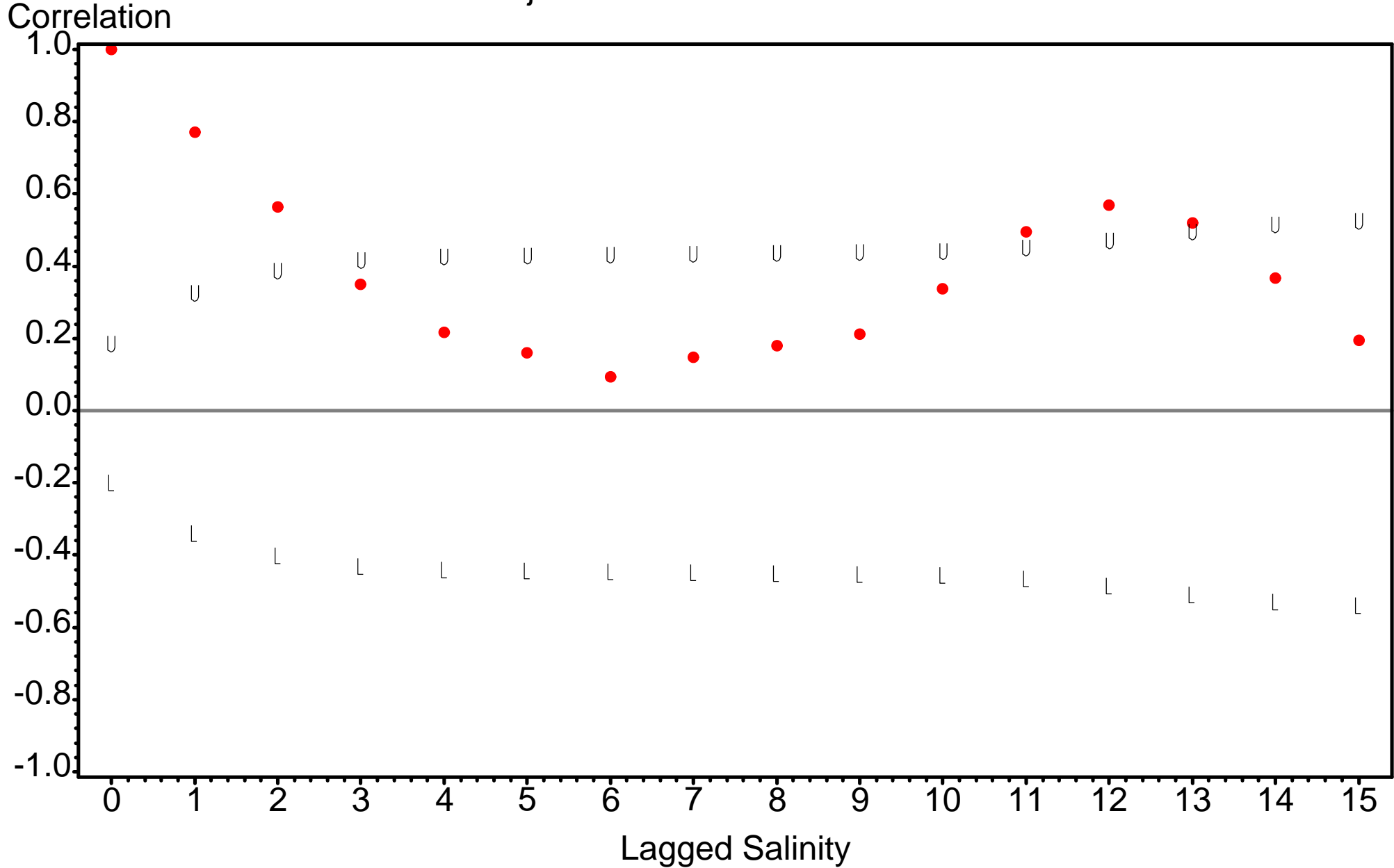


Matlacha Pass Trends Appendix - Display 1154
Autocorrelation Statistics for Surface Salinity in Matlacha Pass

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.771	0.167	0.333	-0.333
2	0.564	0.197	0.394	-0.394
3	0.350	0.211	0.423	-0.423
4	0.217	0.217	0.433	-0.433
5	0.160	0.219	0.437	-0.437
6	0.094	0.220	0.439	-0.439
7	0.148	0.220	0.440	-0.440
8	0.179	0.221	0.442	-0.442
9	0.212	0.222	0.445	-0.445
10	0.338	0.224	0.448	-0.448
11	0.496	0.229	0.458	-0.458
12	0.570	0.239	0.477	-0.477
13	0.520	0.251	0.502	-0.502
14	0.367	0.261	0.521	-0.521
15	0.194	0.265	0.531	-0.531

Matlacha Pass Trends Appendix - Display 1155

Correlogram for Surface Salinity in Matlacha Pass
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1156
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.381	0	0	2.149

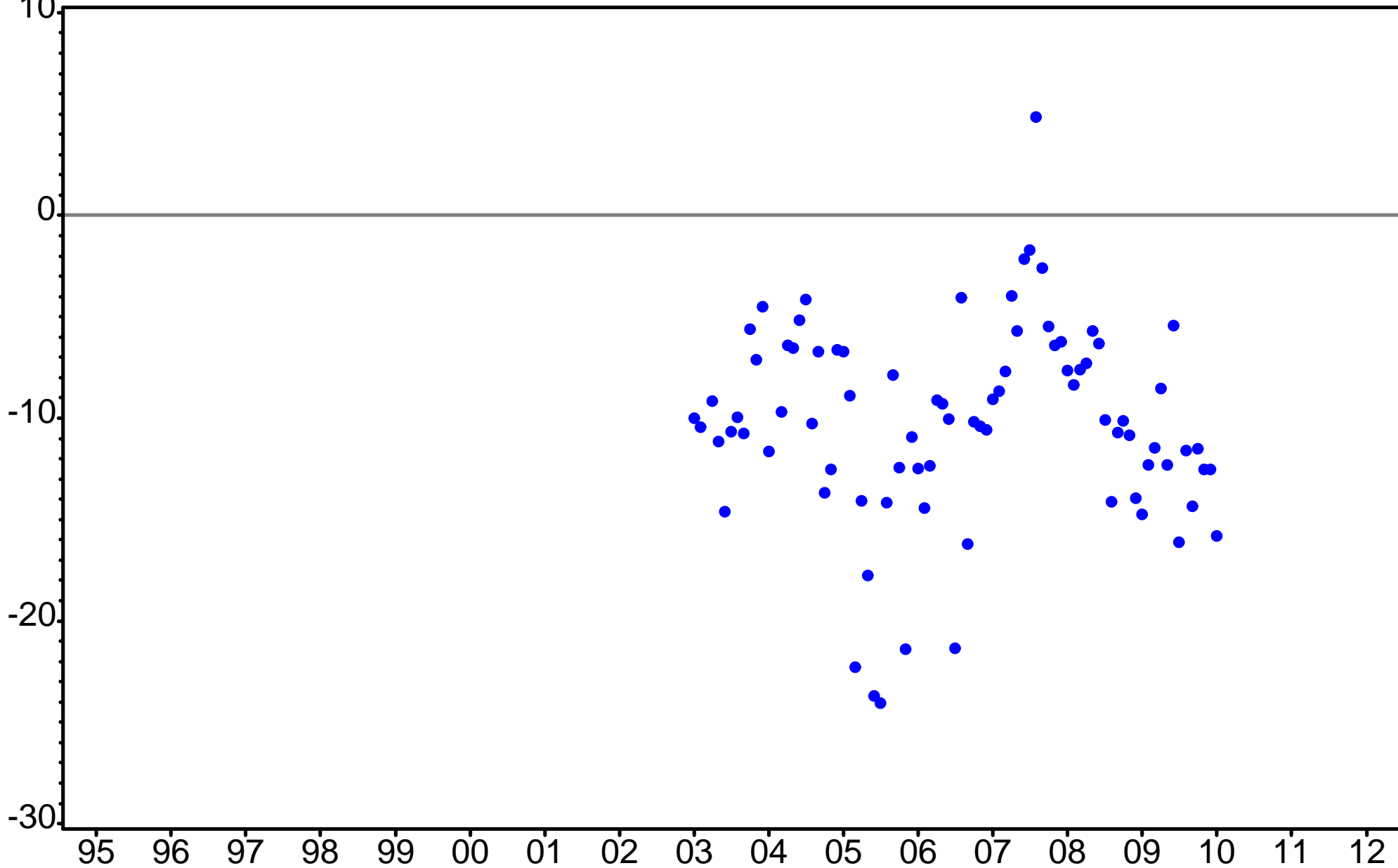
Matlacha Pass Trends Appendix - Display 1157
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.57895	0	0.034004	2.1472

Matlacha Pass Trends Appendix - Display 1158

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(ppt)



Zero Reference Line Shown

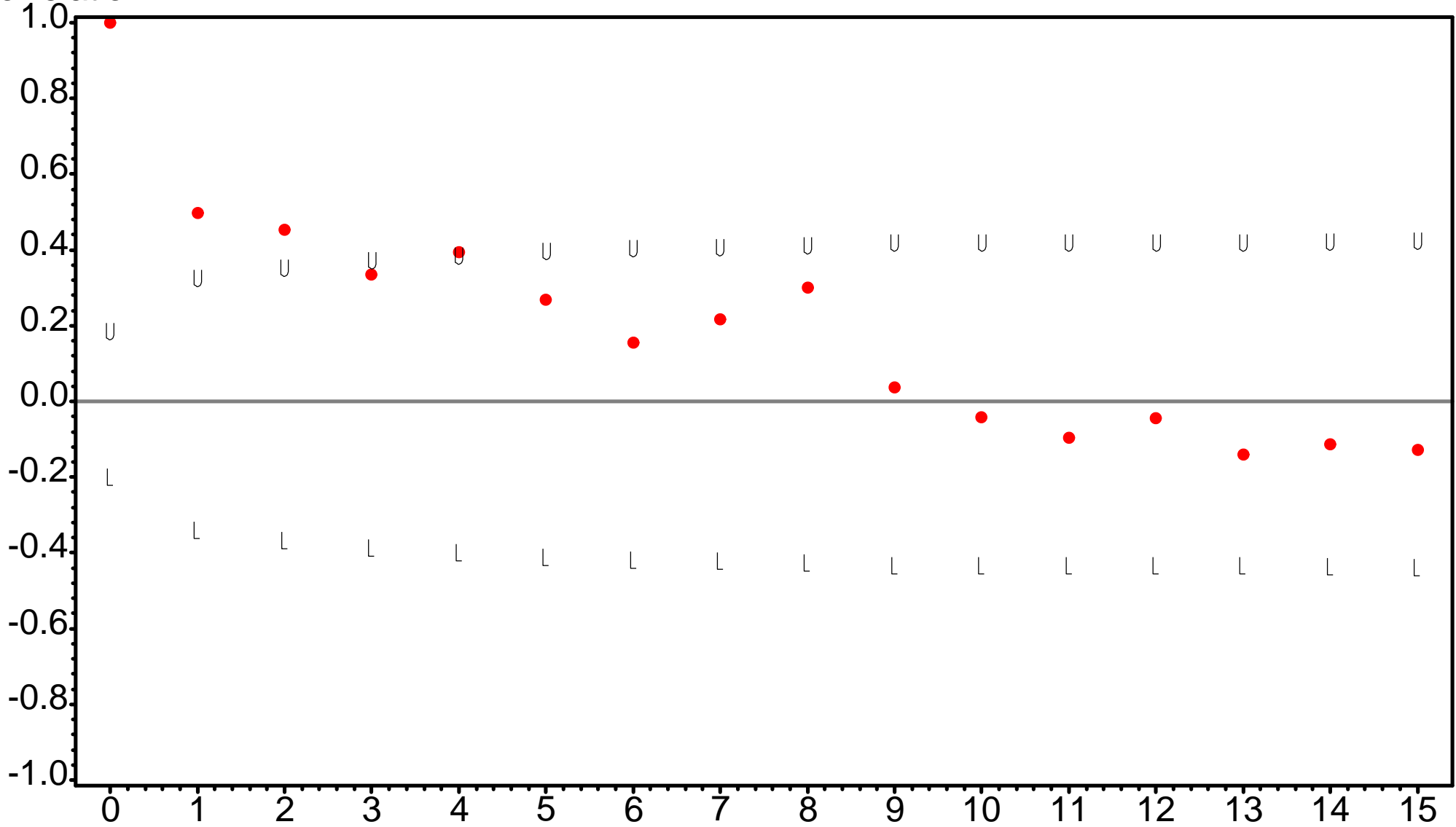
Matlacha Pass Trends Appendix - Display 1159
Autocorrelation Statistics for Surface Salinity in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.497	0.167	0.333	-0.333
2	0.452	0.180	0.360	-0.360
3	0.334	0.190	0.380	-0.380
4	0.393	0.195	0.391	-0.391
5	0.268	0.203	0.405	-0.405
6	0.154	0.206	0.412	-0.412
7	0.217	0.207	0.414	-0.414
8	0.300	0.209	0.418	-0.418
9	0.036	0.213	0.426	-0.426
10	-0.041	0.213	0.426	-0.426
11	-0.097	0.213	0.426	-0.426
12	-0.045	0.214	0.427	-0.427
13	-0.141	0.214	0.427	-0.427
14	-0.112	0.214	0.429	-0.429
15	-0.127	0.215	0.430	-0.430

Matlacha Pass Trends Appendix - Display 1160

Correlogram for Surface Salinity in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Correlation



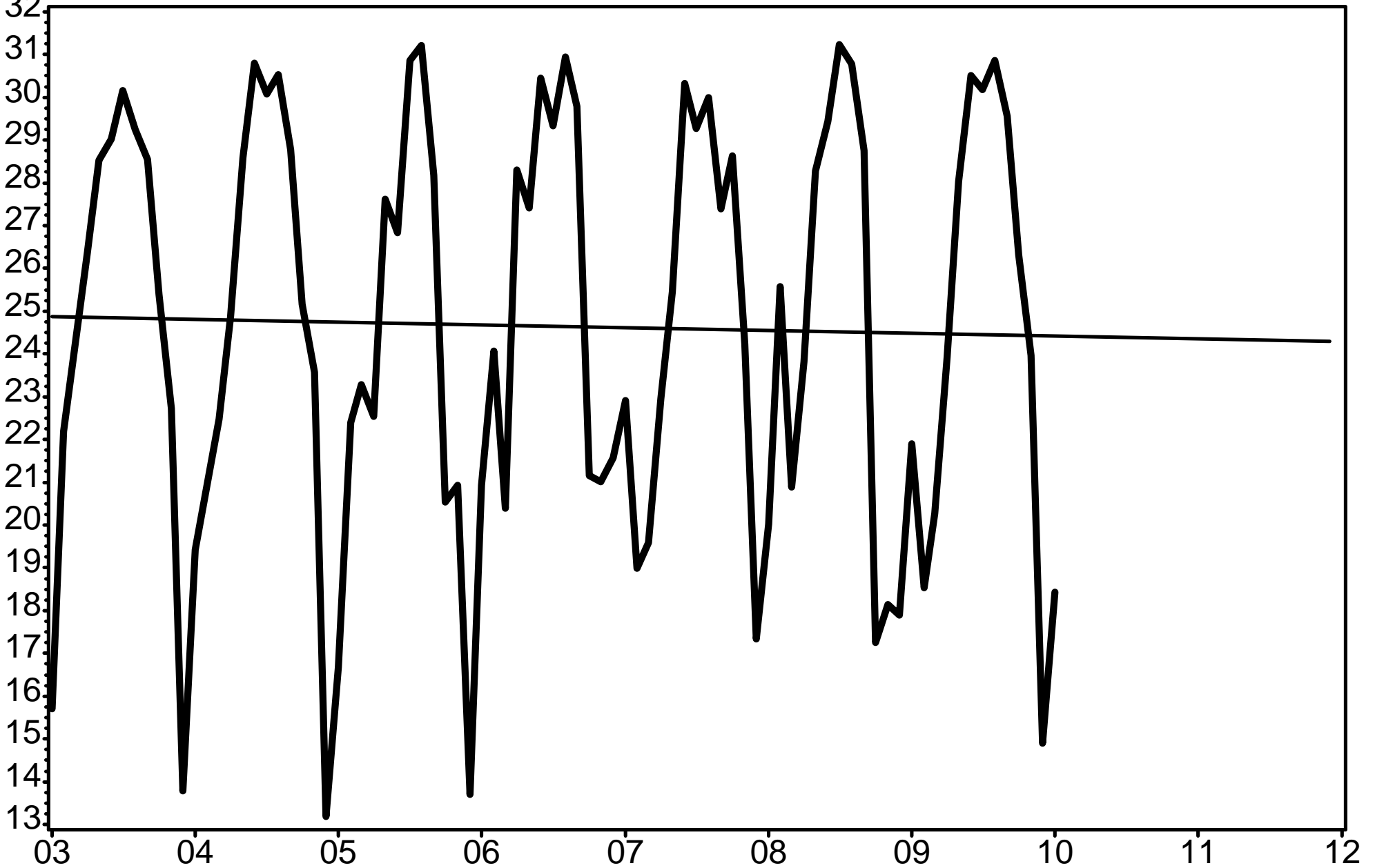
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1161

Monthly Data Time Series
for Surface Temperature in Matlacha Pass
Not Adjusted for Seasonal Medians

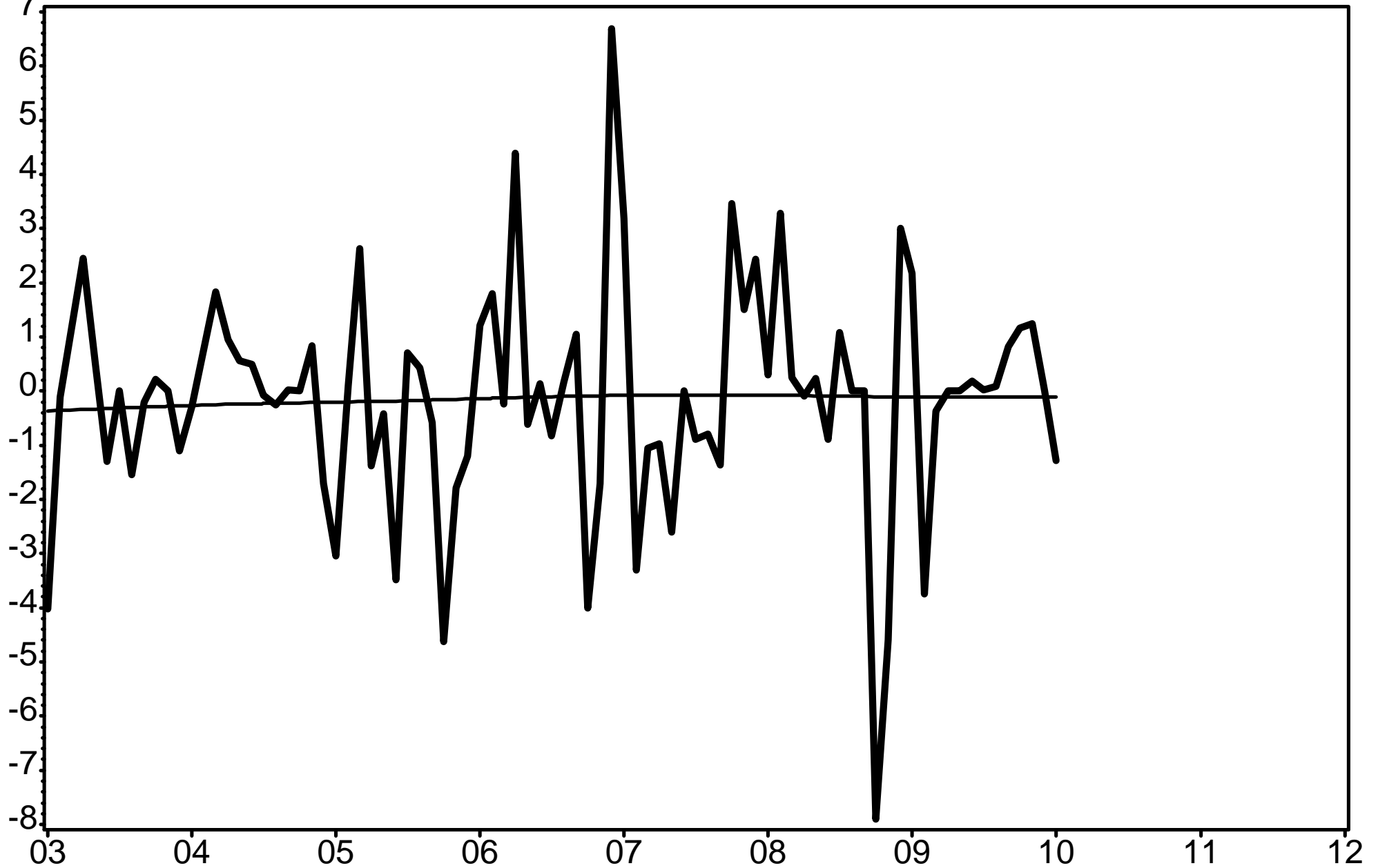
TEMP_C
(Degree C)



Matlacha Pass Trends Appendix - Display 1162

Monthly Data Time Series
for Surface Temperature in Matlacha Pass
Adjusted for Seasonal Medians

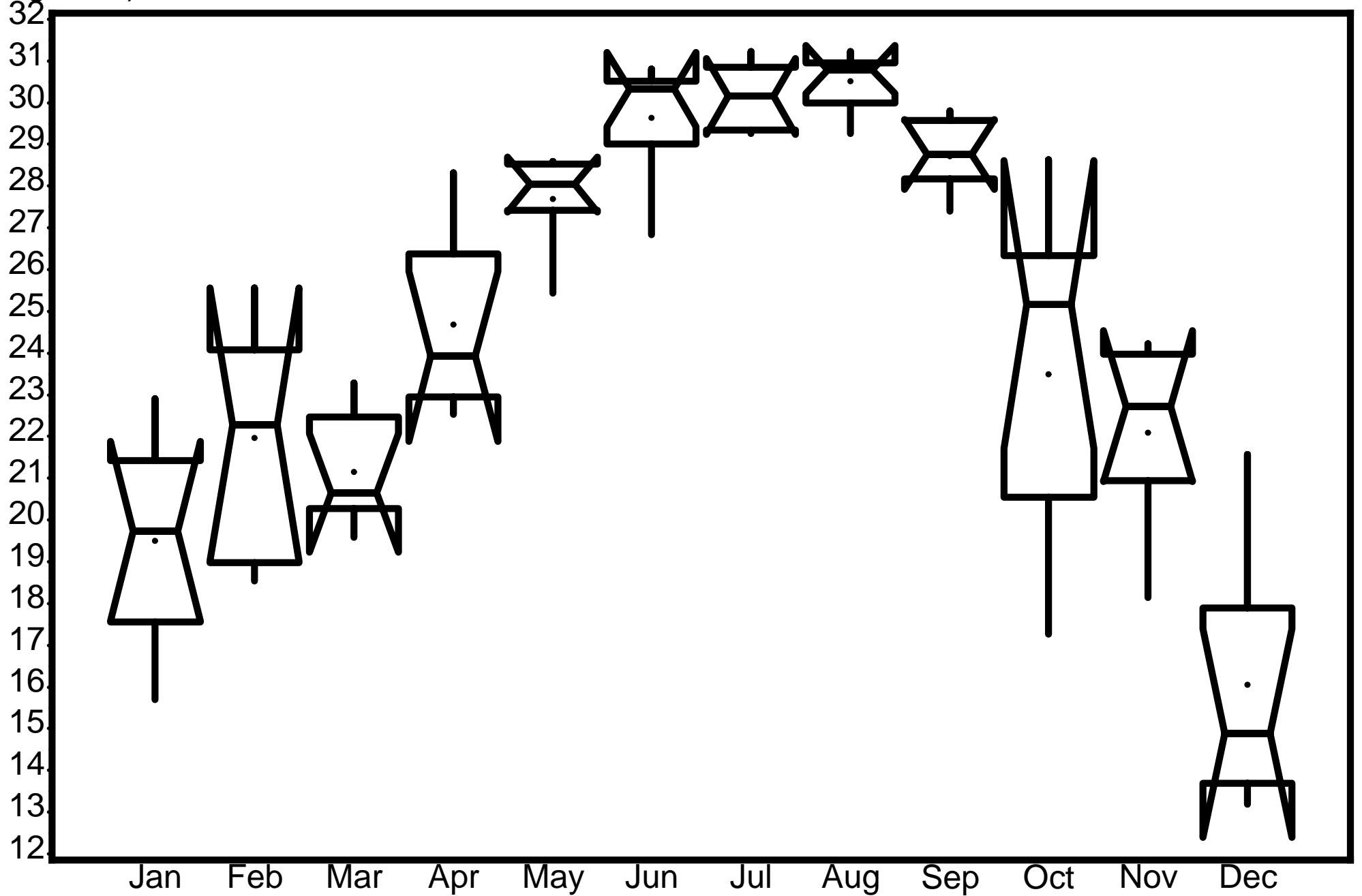
Adjusted
TEMP_C
(Degree C)



Matlacha Pass Trends Appendix - Display 1163

Seasonal Univariate Statistics
for Surface Temperature in Matlacha Pass

TEMP_C
(Degree C)



Matlacha Pass Trends Appendix - Display 1164

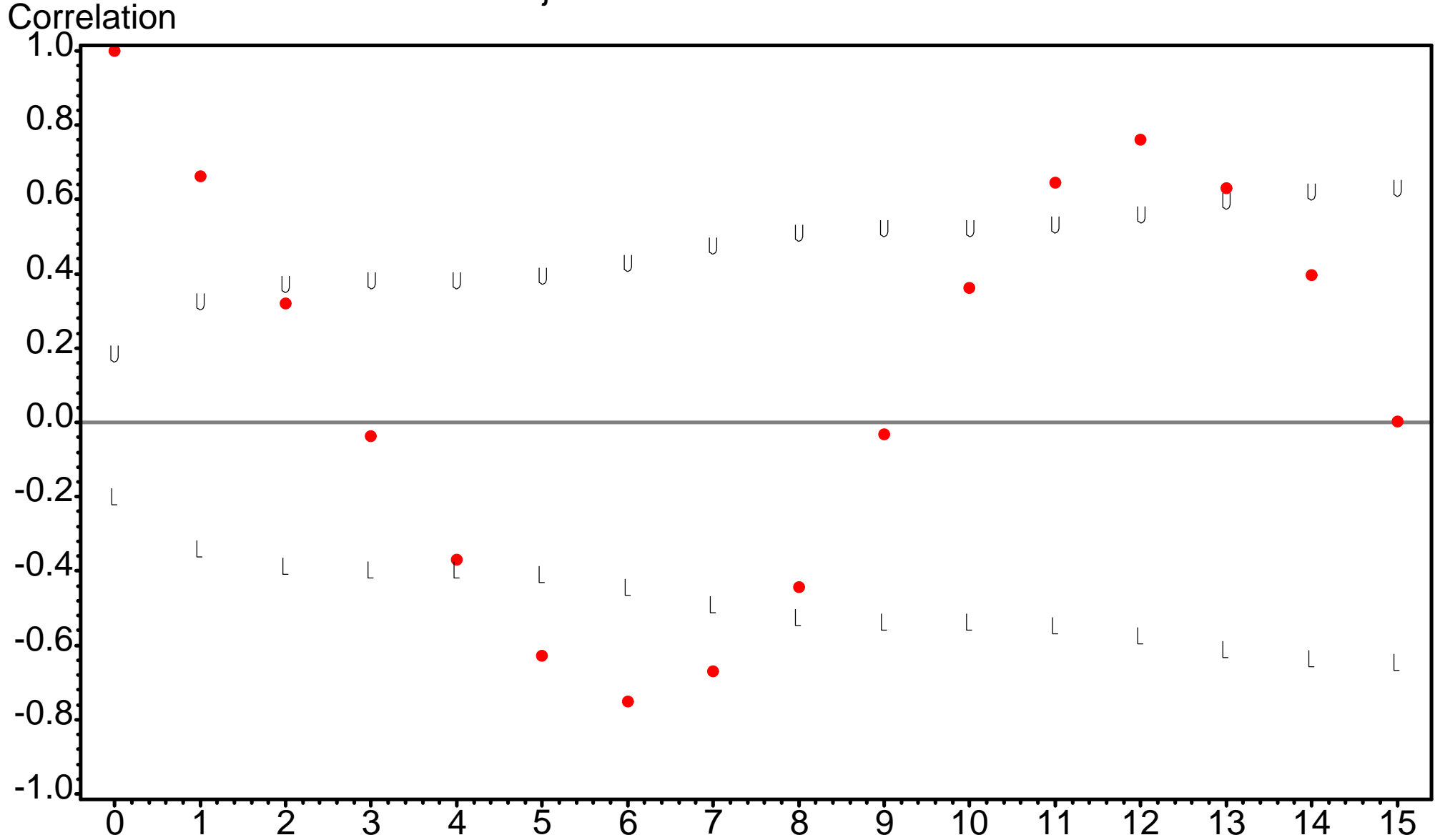
Autocorrelation Statistics for Surface Temperature in Matlacha Pass

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.663	0.167	0.333	-0.333
2	0.320	0.190	0.379	-0.379
3	-0.036	0.194	0.389	-0.389
4	-0.369	0.195	0.389	-0.389
5	-0.628	0.201	0.402	-0.402
6	-0.752	0.218	0.437	-0.437
7	-0.670	0.241	0.482	-0.482
8	-0.444	0.258	0.516	-0.516
9	-0.031	0.265	0.530	-0.530
10	0.361	0.265	0.530	-0.530
11	0.644	0.269	0.539	-0.539
12	0.762	0.283	0.567	-0.567
13	0.631	0.302	0.603	-0.603
14	0.397	0.314	0.627	-0.627
15	0.002	0.318	0.637	-0.637

Matlacha Pass Trends Appendix - Display 1165

Correlogram for Surface Temperature in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1166
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.016	0.835	0.835	-0.073

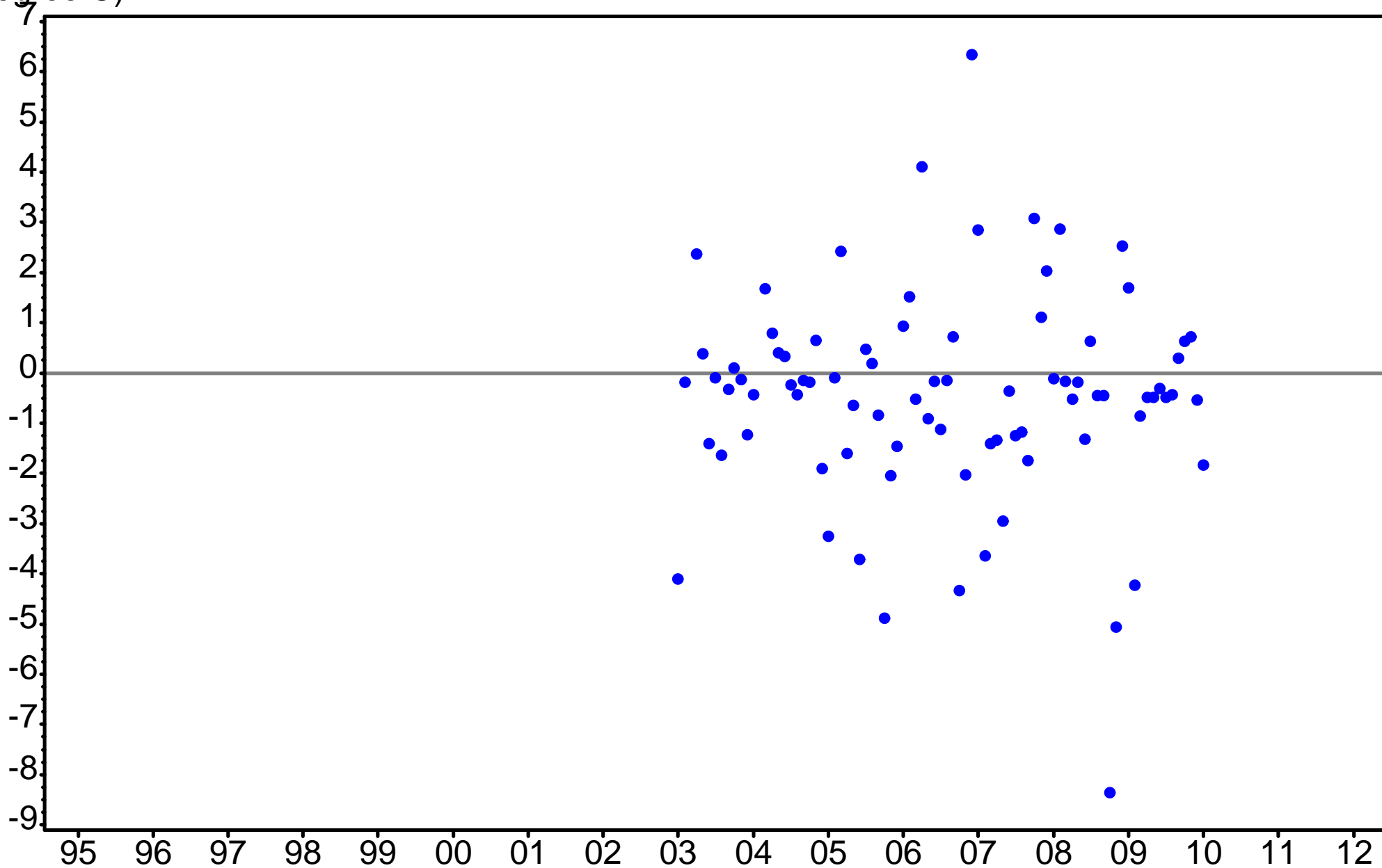
Matlacha Pass Trends Appendix - Display 1167
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.044534	0.66131	0.66451	0.0672

Matlacha Pass Trends Appendix - Display 1168

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(Degree C)



Zero Reference Line Shown

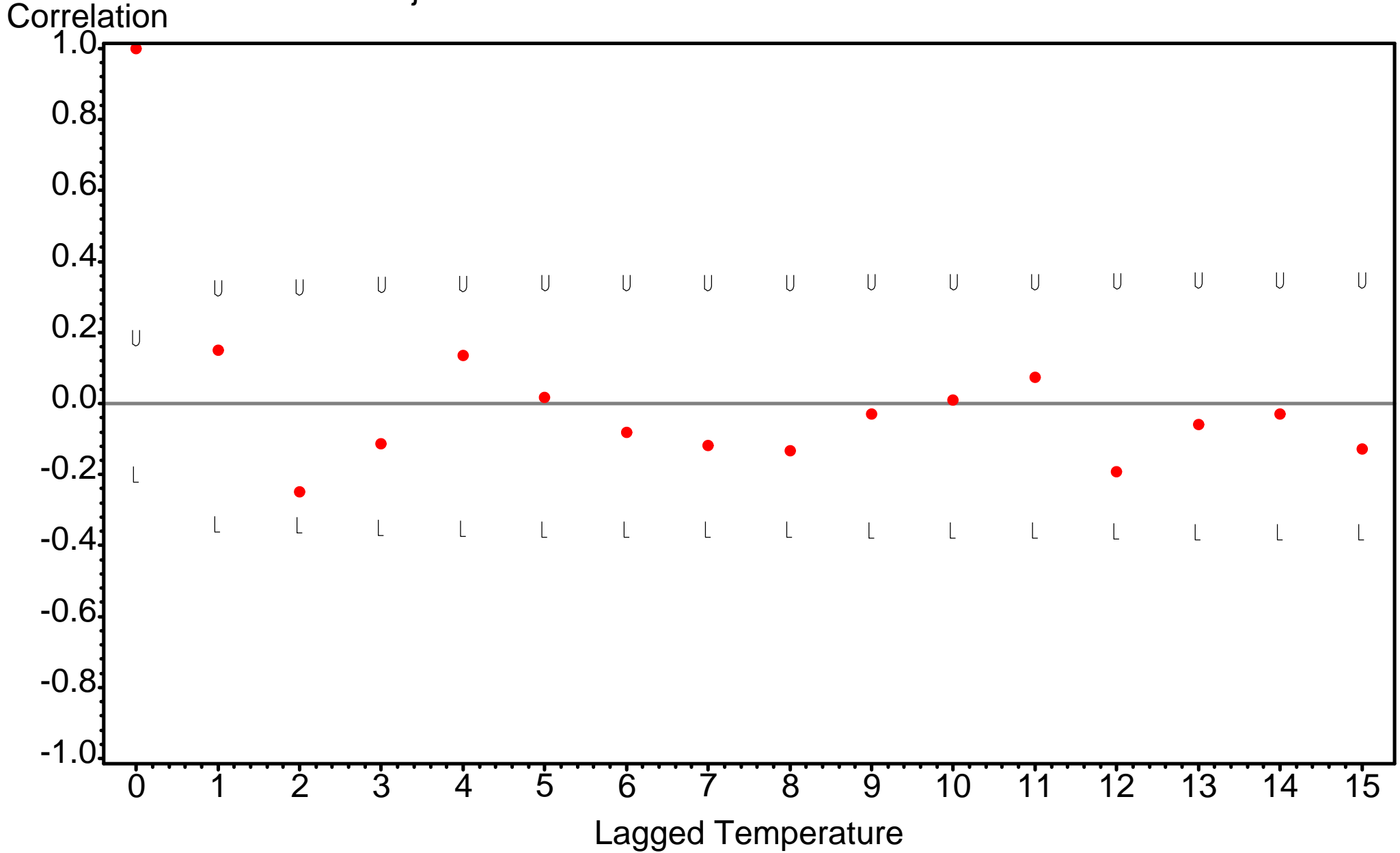
Matlacha Pass Trends Appendix - Display 1169
Autocorrelation Statistics for Surface Temperature in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.149	0.167	0.333	-0.333
2	-0.248	0.168	0.336	-0.336
3	-0.112	0.171	0.343	-0.343
4	0.136	0.172	0.344	-0.344
5	0.017	0.173	0.346	-0.346
6	-0.080	0.173	0.346	-0.346
7	-0.117	0.173	0.347	-0.347
8	-0.133	0.174	0.348	-0.348
9	-0.030	0.175	0.350	-0.350
10	0.010	0.175	0.350	-0.350
11	0.075	0.175	0.350	-0.350
12	-0.191	0.175	0.351	-0.351
13	-0.058	0.177	0.354	-0.354
14	-0.029	0.177	0.355	-0.355
15	-0.127	0.177	0.355	-0.355

Matlacha Pass Trends Appendix - Display 1170

Correlogram for Surface Temperature in Matlacha Pass

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

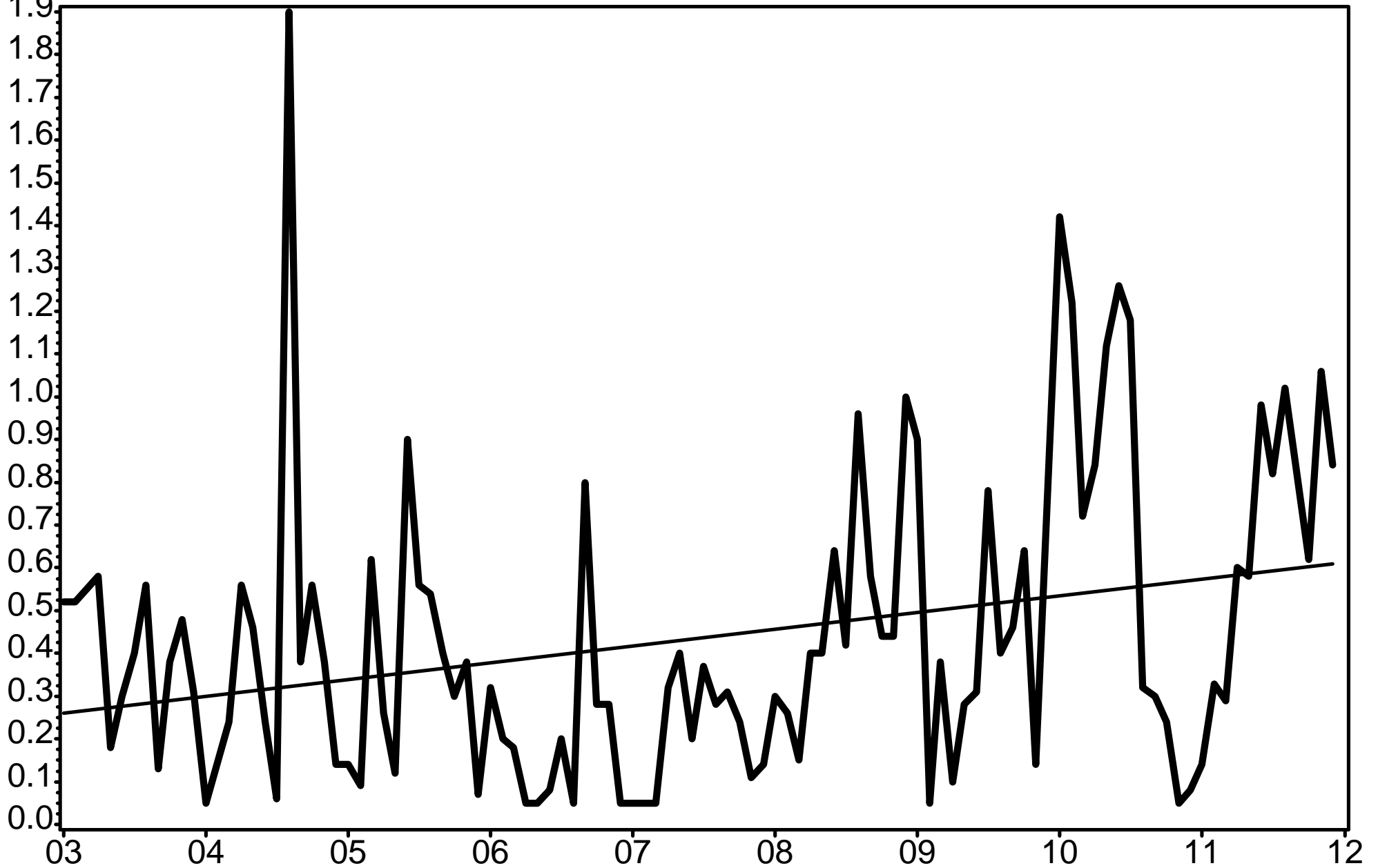
Matlacha Pass Trends Appendix - Display 1171

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Matlacha Pass

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



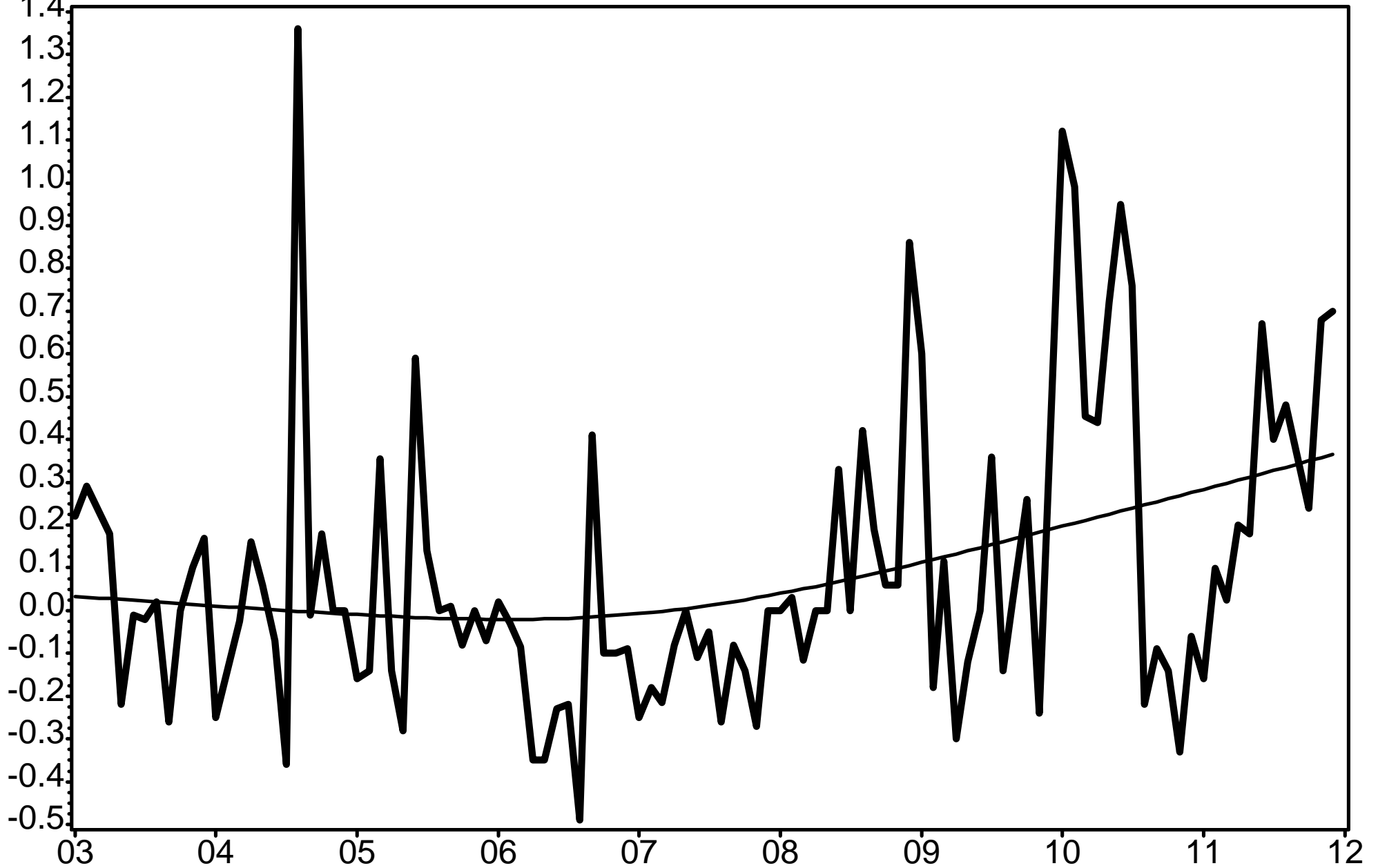
Matlacha Pass Trends Appendix - Display 1172

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

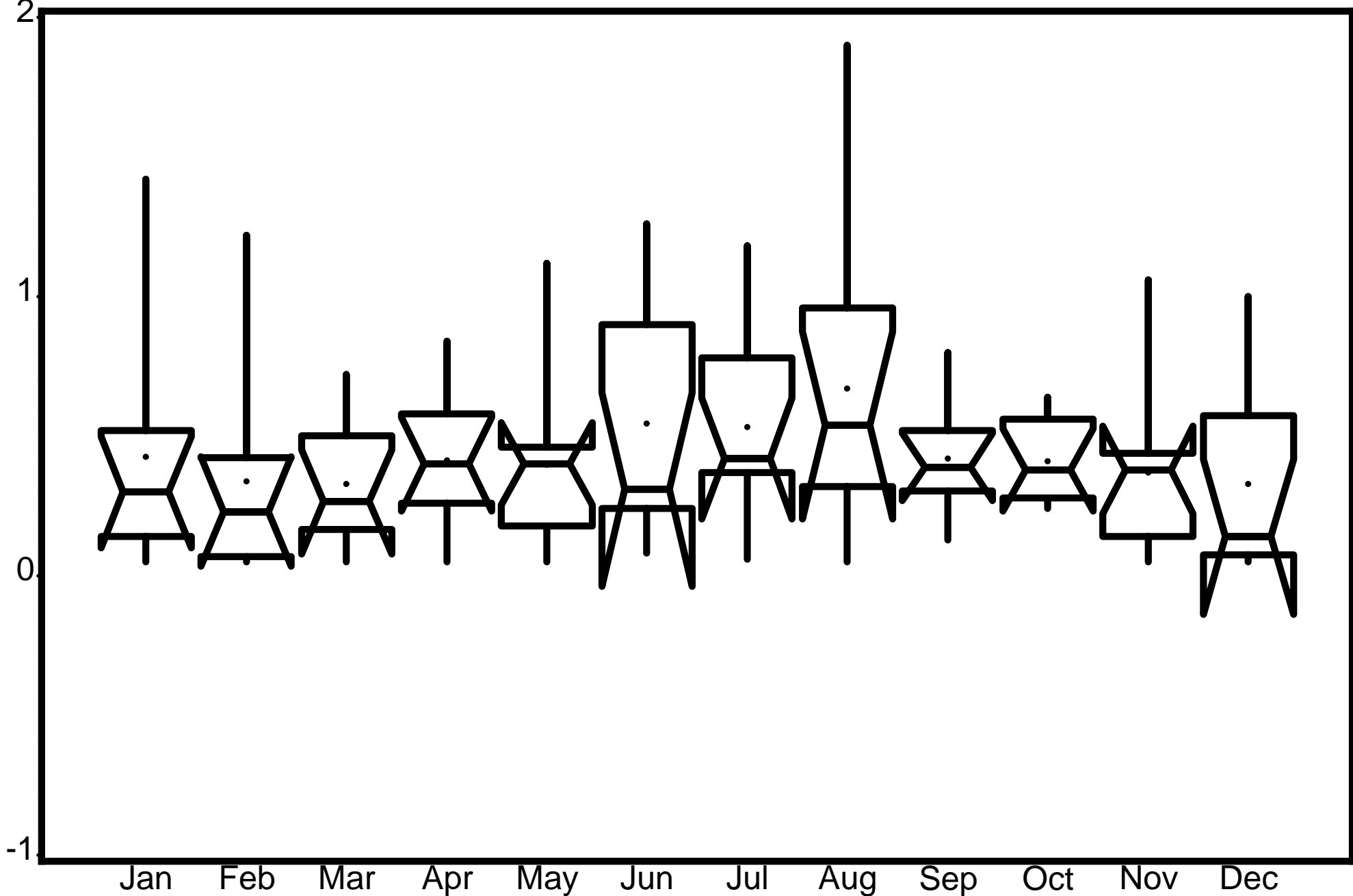


Matlacha Pass Trends Appendix - Display 1173

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Matlacha Pass

TKN_mgl
(mg/l)

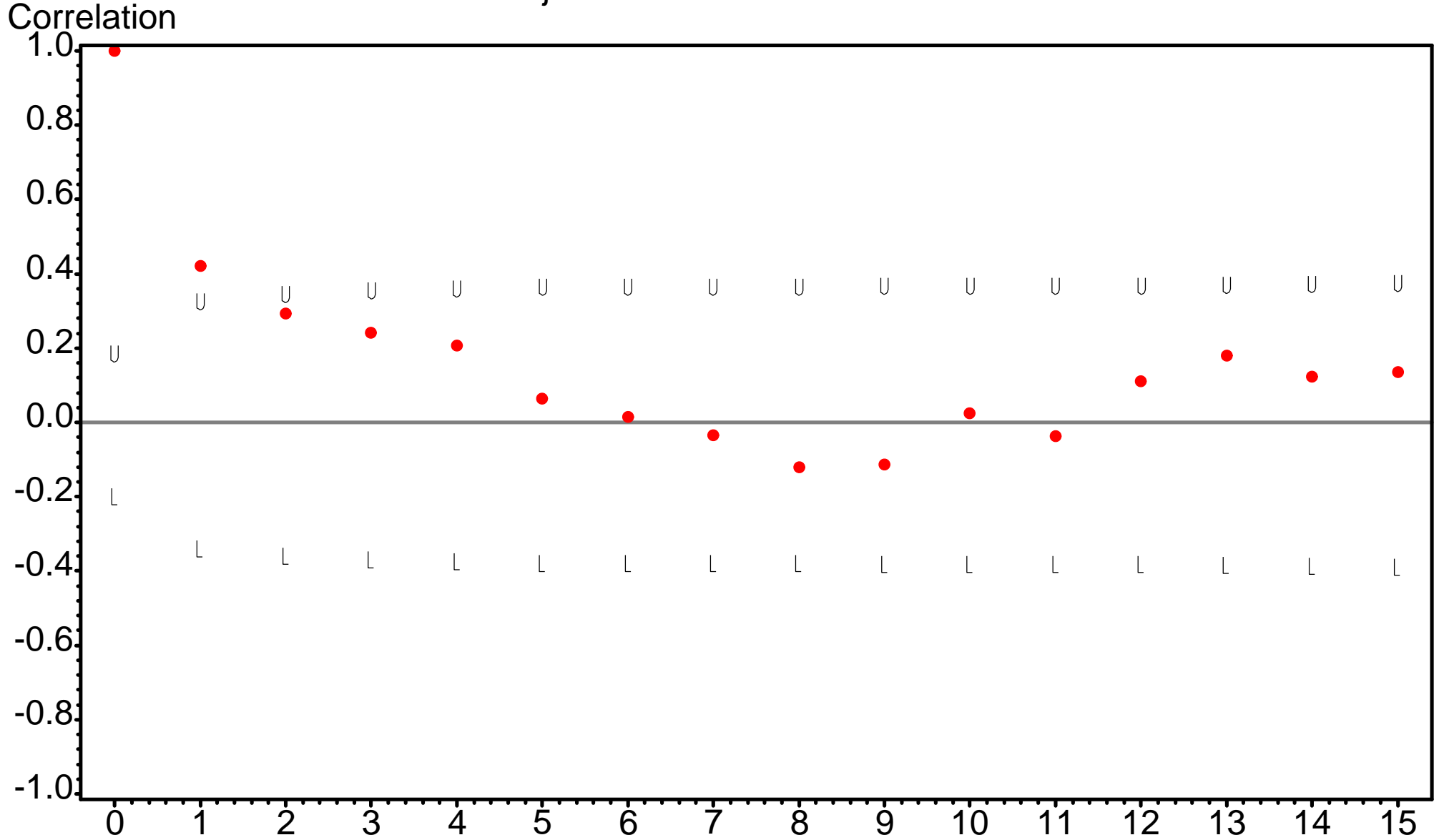


Matlacha Pass Trends Appendix - Display 1174
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Matlacha Pass

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.421	0.167	0.333	-0.333
2	0.294	0.176	0.352	-0.352
3	0.241	0.181	0.361	-0.361
4	0.207	0.184	0.367	-0.367
5	0.064	0.186	0.372	-0.372
6	0.016	0.186	0.372	-0.372
7	-0.035	0.186	0.372	-0.372
8	-0.121	0.186	0.372	-0.372
9	-0.113	0.187	0.374	-0.374
10	0.025	0.187	0.375	-0.375
11	-0.036	0.187	0.375	-0.375
12	0.112	0.188	0.375	-0.375
13	0.179	0.188	0.376	-0.376
14	0.122	0.190	0.379	-0.379
15	0.135	0.190	0.381	-0.381

Matlacha Pass Trends Appendix - Display 1175

Correlogram for Surface Total Kjeldahl Nitrogen in Matlacha Pass Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1176
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Matlacha Pass
Unadjusted for Seasonal Medians

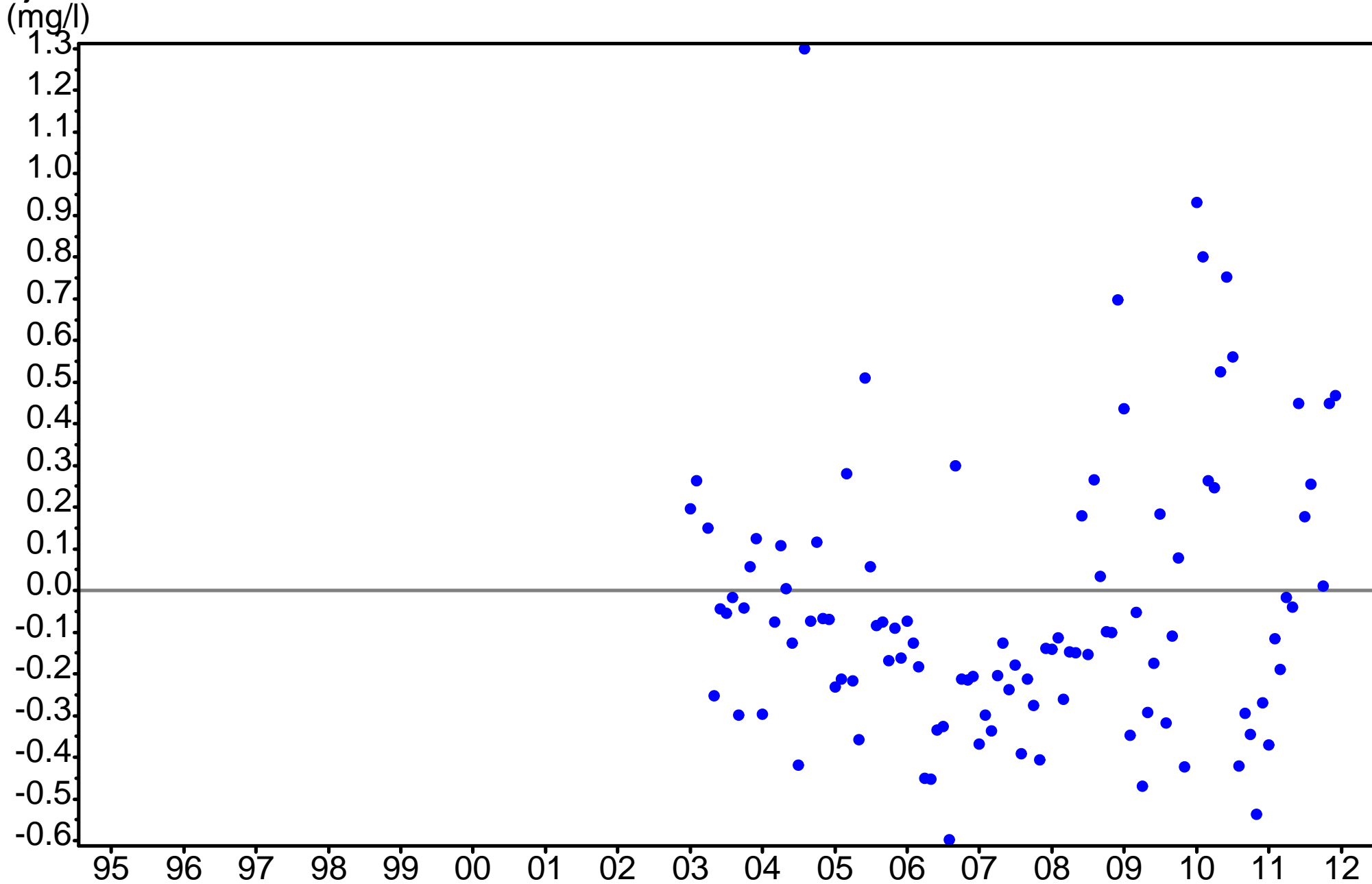
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.176	.008	.008	0.03

Matlacha Pass Trends Appendix - Display 1177
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1625	0.041981	0.26579	0.023476

Matlacha Pass Trends Appendix - Display 1178

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted Matlacha Pass



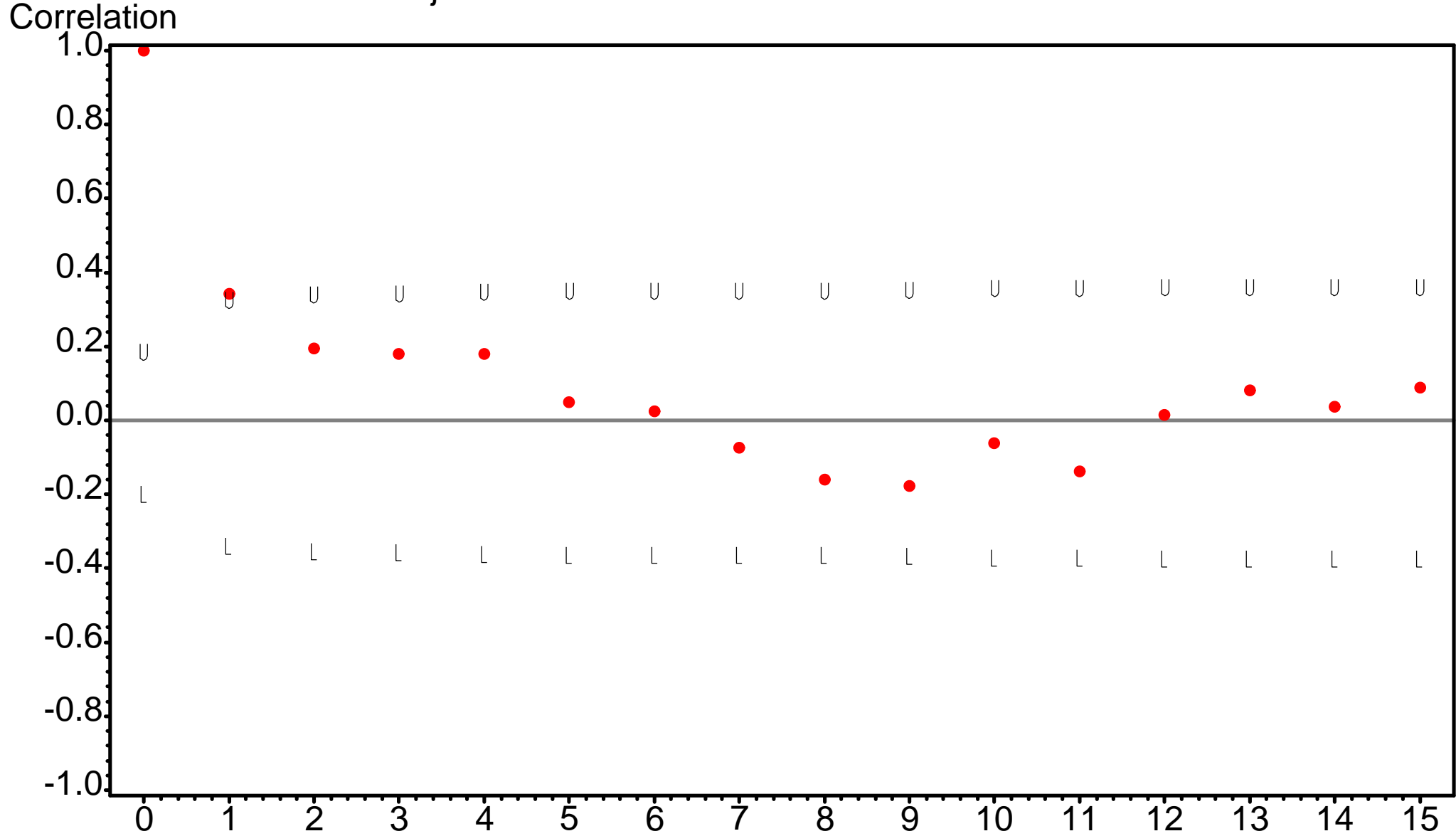
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1179
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.343	0.167	0.333	-0.333
2	0.194	0.173	0.346	-0.346
3	0.179	0.175	0.350	-0.350
4	0.180	0.177	0.354	-0.354
5	0.050	0.178	0.357	-0.357
6	0.024	0.179	0.357	-0.357
7	-0.073	0.179	0.357	-0.357
8	-0.159	0.179	0.358	-0.358
9	-0.177	0.180	0.360	-0.360
10	-0.061	0.182	0.364	-0.364
11	-0.137	0.182	0.364	-0.364
12	0.014	0.183	0.366	-0.366
13	0.081	0.183	0.366	-0.366
14	0.038	0.183	0.367	-0.367
15	0.089	0.183	0.367	-0.367

Matlacha Pass Trends Appendix - Display 1180

Correlogram for Surface Total Kjeldahl Nitrogen in Matlacha Pass Adjusted for Seasonal Median and Detrended



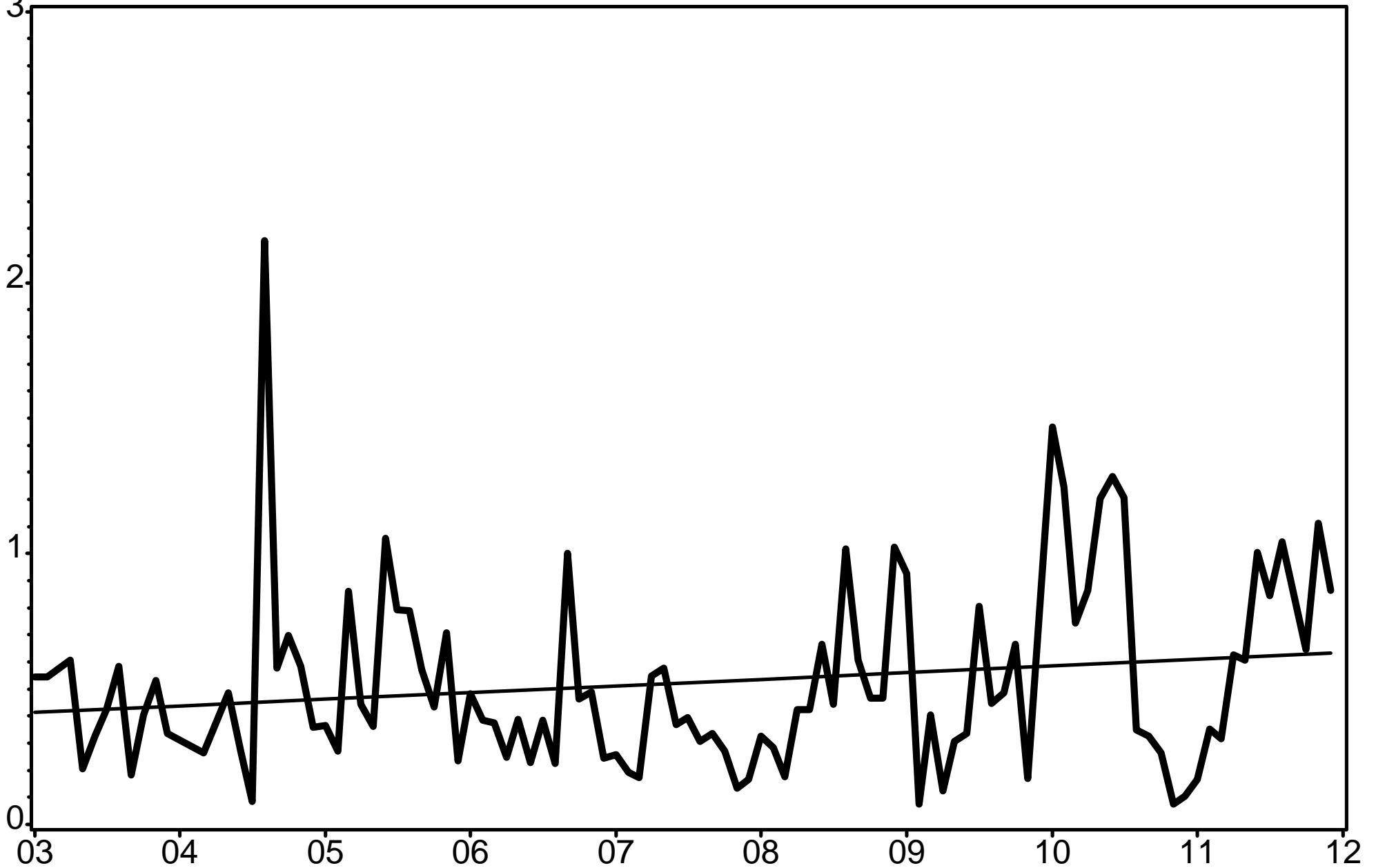
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1181

Monthly Data Time Series
for Surface Total Nitrogen in Matlacha Pass
Not Adjusted for Seasonal Medians

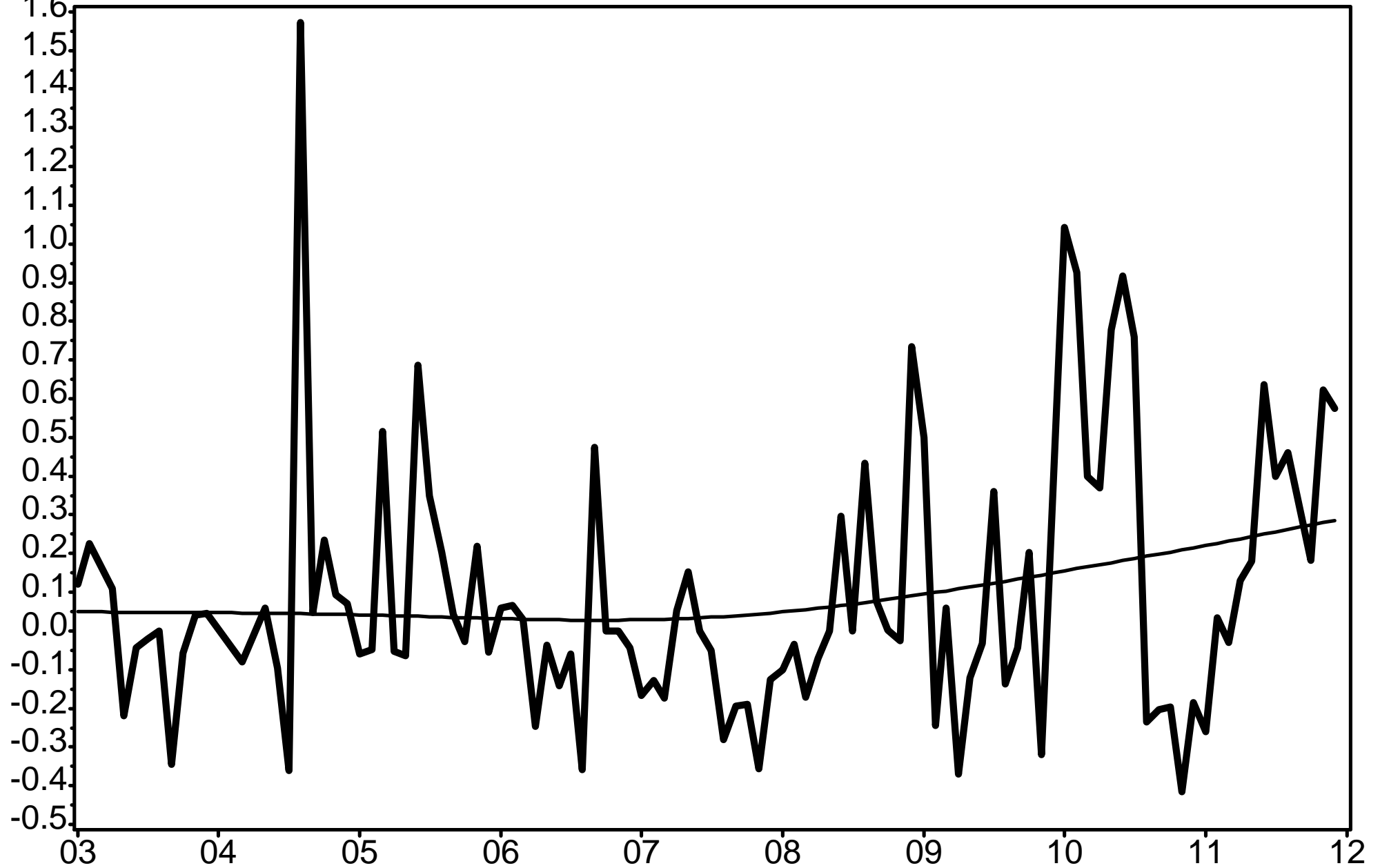
TN_mgl
(mg/l)



Matlacha Pass Trends Appendix - Display 1182

Monthly Data Time Series
for Surface Total Nitrogen in Matlacha Pass
Adjusted for Seasonal Medians

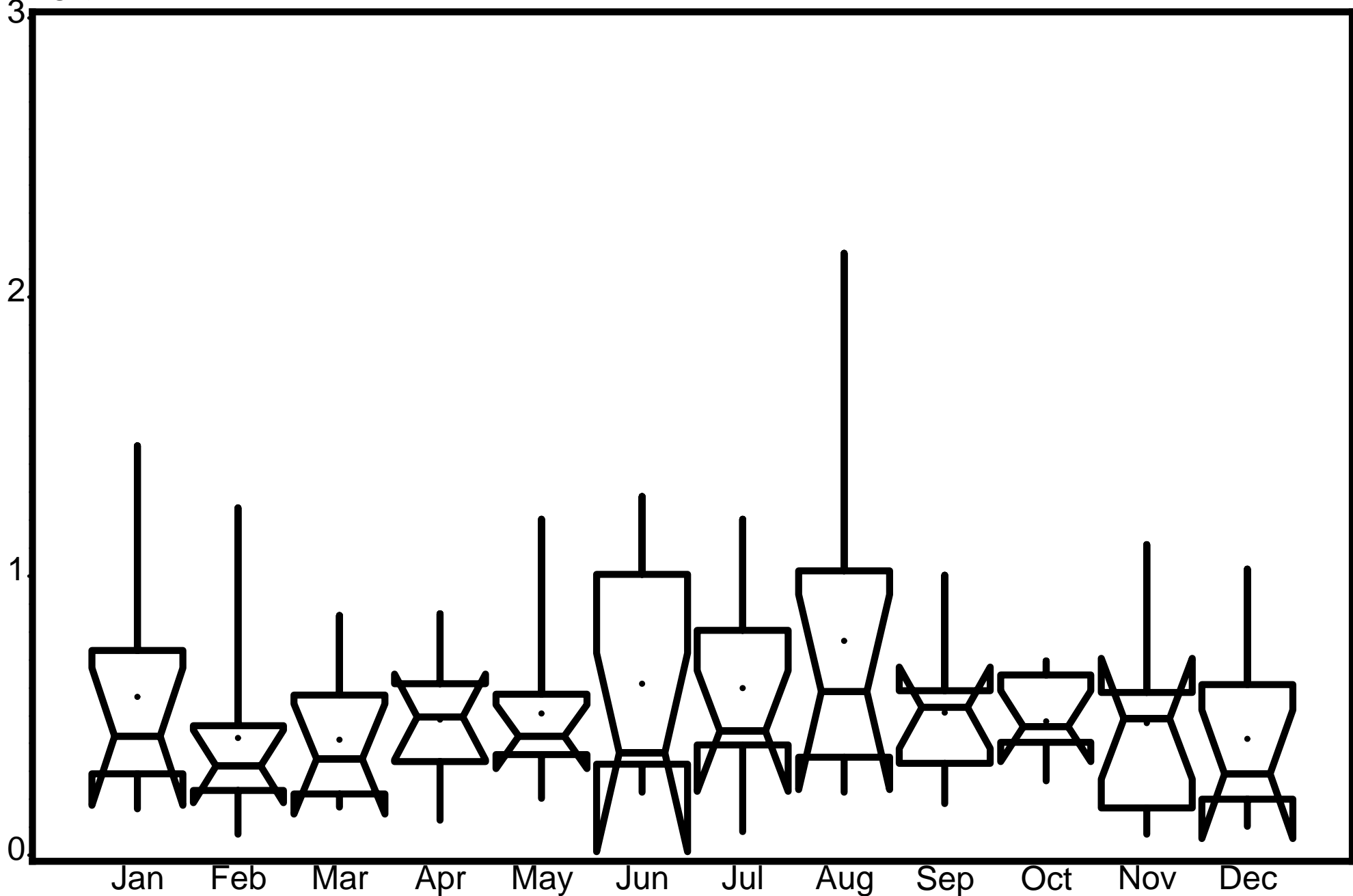
Adjusted
TN_mgl
(mg/l)



Matlacha Pass Trends Appendix - Display 1183

Seasonal Univariate Statistics for Surface Total Nitrogen in Matlacha Pass

TN_mgl
(mg/l)



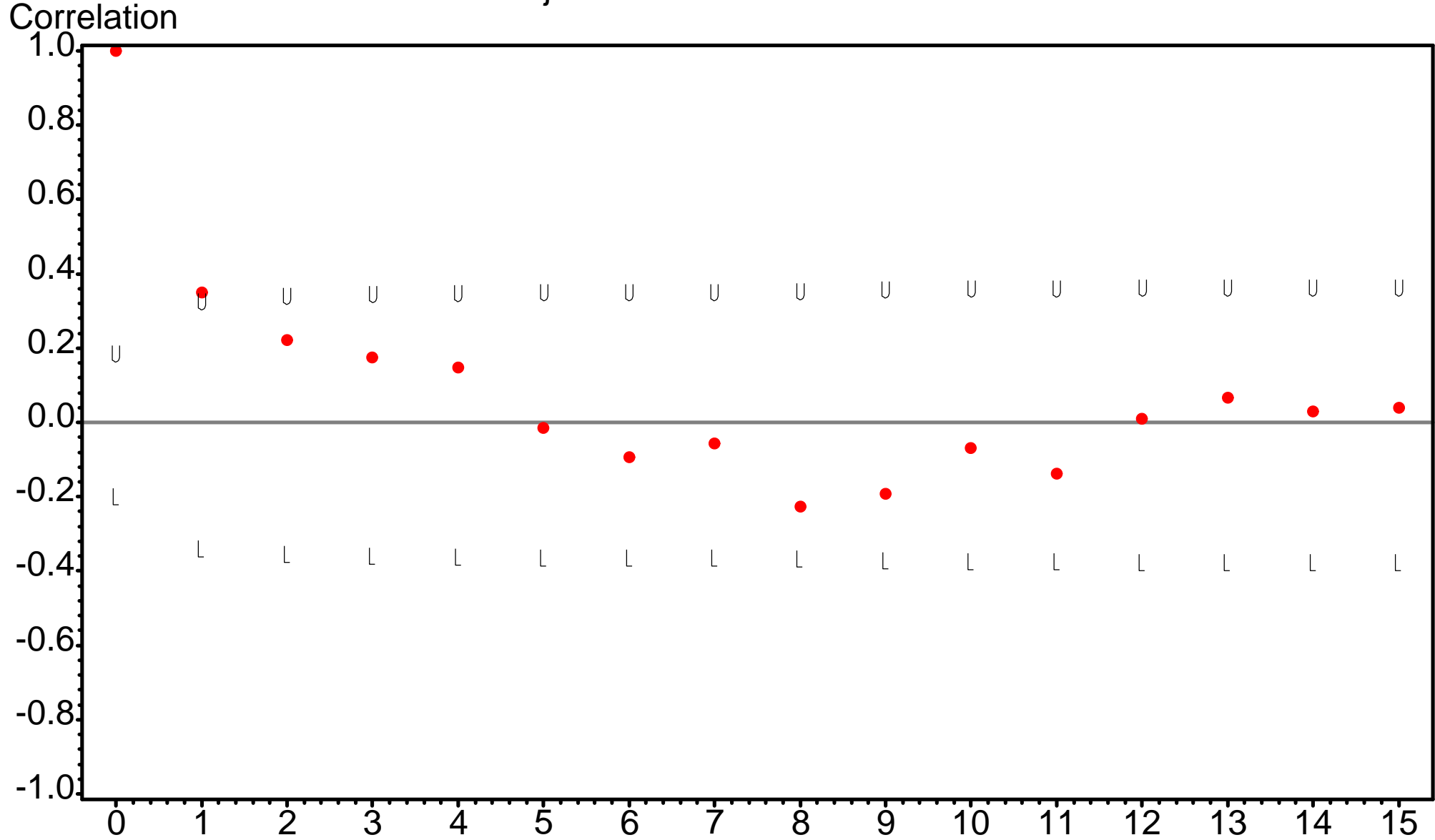
Matlacha Pass Trends Appendix - Display 1184
Autocorrelation Statistics for Surface Total Nitrogen in Matlacha Pass

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.350	0.167	0.333	-0.333
2	0.221	0.173	0.347	-0.347
3	0.174	0.176	0.352	-0.352
4	0.147	0.177	0.355	-0.355
5	-0.015	0.179	0.357	-0.357
6	-0.094	0.179	0.357	-0.357
7	-0.057	0.179	0.358	-0.358
8	-0.227	0.179	0.359	-0.359
9	-0.193	0.182	0.364	-0.364
10	-0.070	0.184	0.368	-0.368
11	-0.138	0.184	0.368	-0.368
12	0.011	0.185	0.370	-0.370
13	0.066	0.185	0.370	-0.370
14	0.030	0.185	0.370	-0.370
15	0.039	0.185	0.370	-0.370

Matlacha Pass Trends Appendix - Display 1185

Correlogram for Surface Total Nitrogen in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1186
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.094	0.163	0.163	0.017

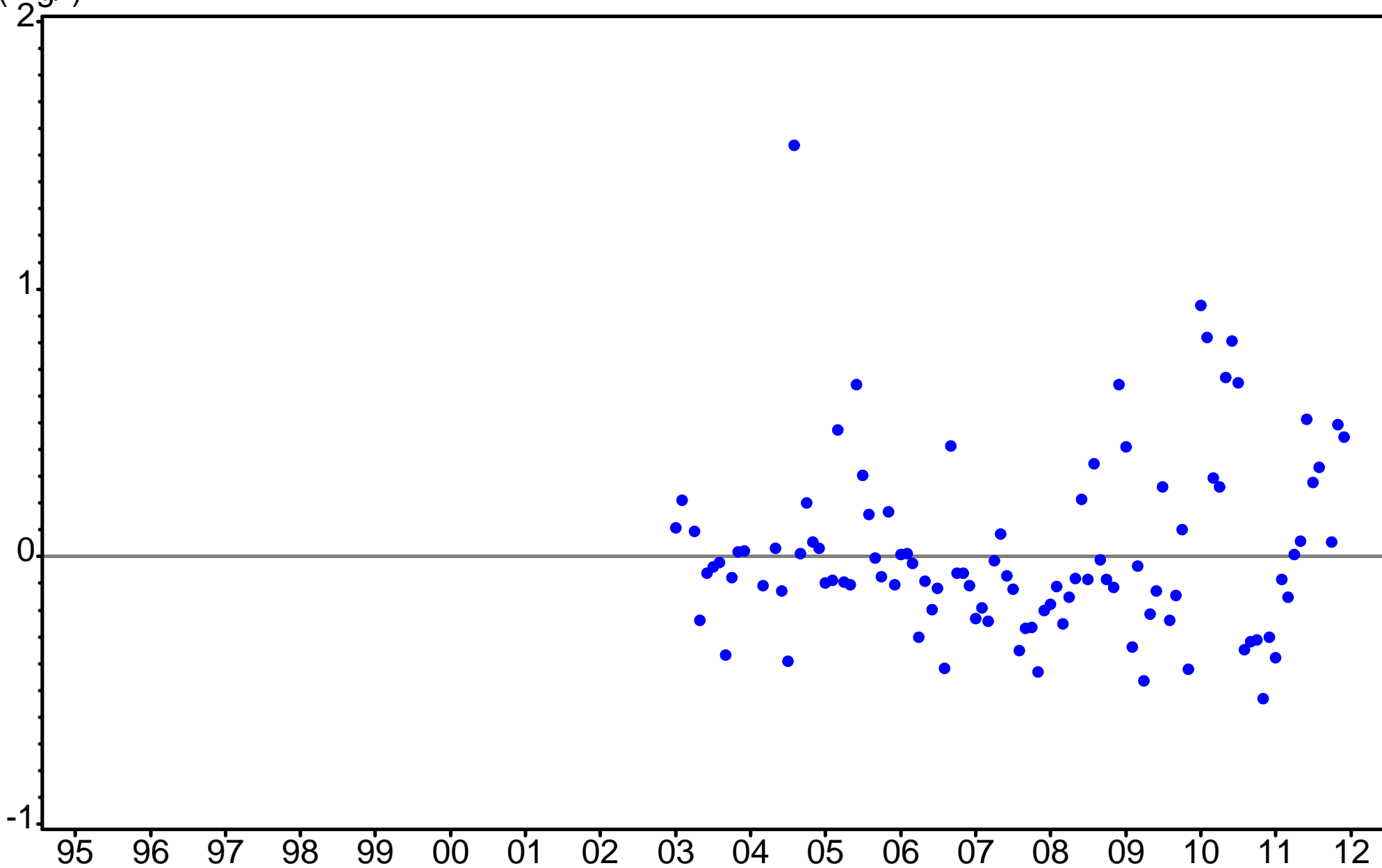
Matlacha Pass Trends Appendix - Display 1187
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10417	0.20432	0.33376	0.01305

Matlacha Pass Trends Appendix - Display 1188

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(mg/l)



Zero Reference Line Shown

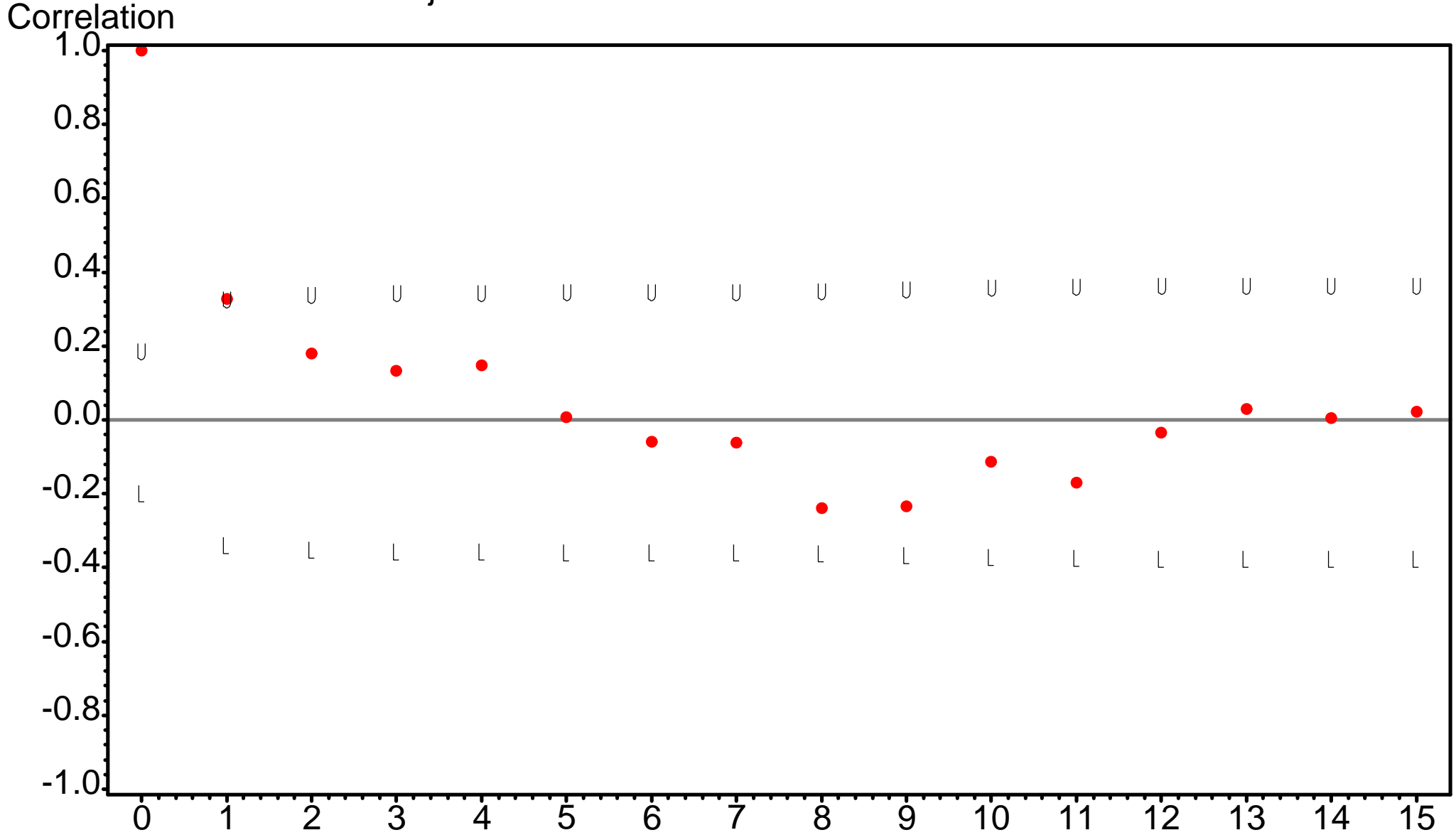
Matlacha Pass Trends Appendix - Display 1189
Autocorrelation Statistics for Surface Total Nitrogen in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.328	0.167	0.333	-0.333
2	0.180	0.173	0.345	-0.345
3	0.134	0.174	0.349	-0.349
4	0.148	0.175	0.350	-0.350
5	0.007	0.176	0.353	-0.353
6	-0.059	0.176	0.353	-0.353
7	-0.062	0.177	0.353	-0.353
8	-0.239	0.177	0.354	-0.354
9	-0.234	0.180	0.359	-0.359
10	-0.112	0.183	0.365	-0.365
11	-0.171	0.183	0.366	-0.366
12	-0.034	0.185	0.369	-0.369
13	0.030	0.185	0.369	-0.369
14	0.004	0.185	0.369	-0.369
15	0.023	0.185	0.369	-0.369

Matlacha Pass Trends Appendix - Display 1190

Correlogram for Surface Total Nitrogen in Matlacha Pass

Adjusted for Seasonal Median and Detrended



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

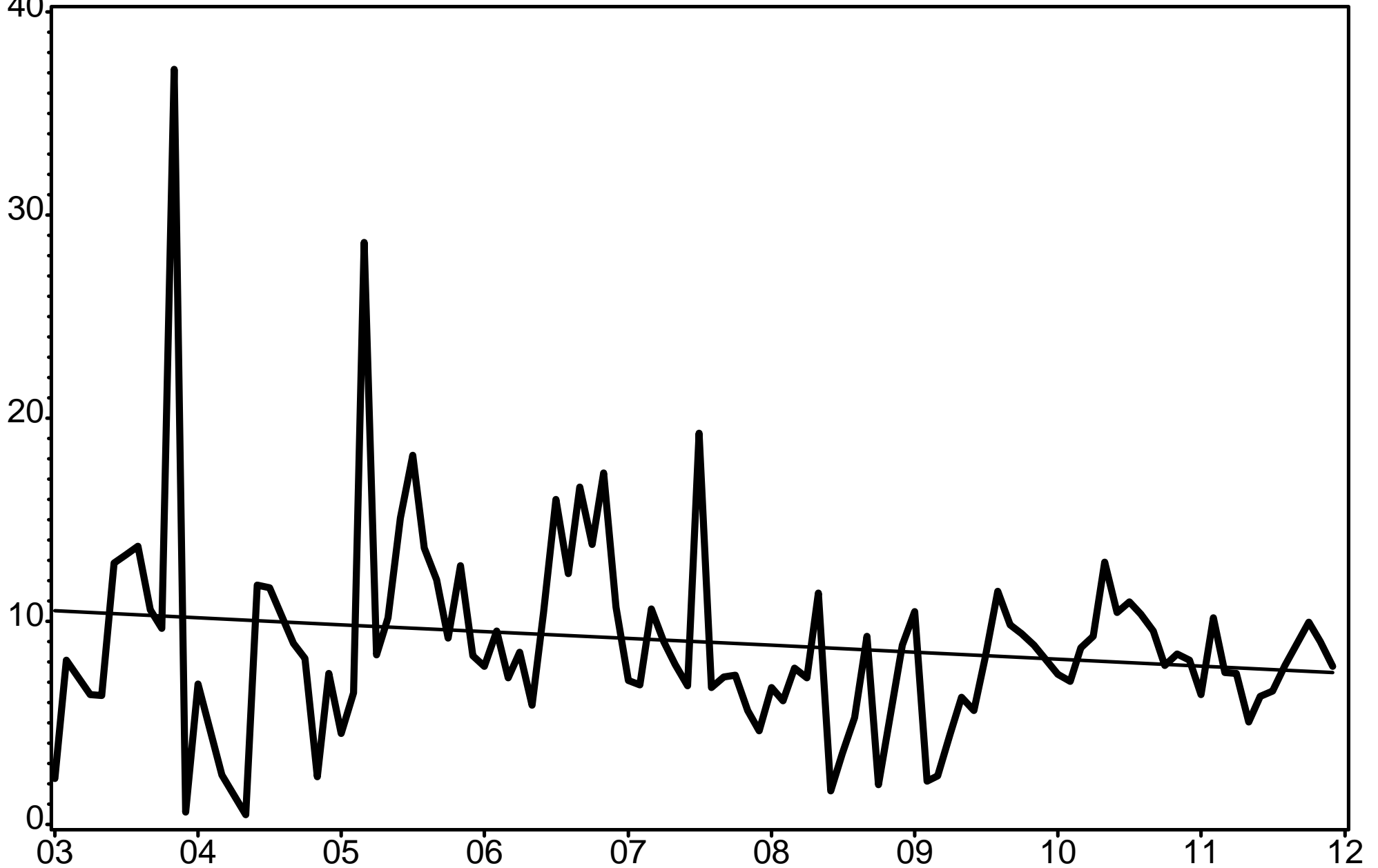
Matlacha Pass Trends Appendix - Display 1191

Monthly Data Time Series

for Surface Total Organic Carbon in Matlacha Pass

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



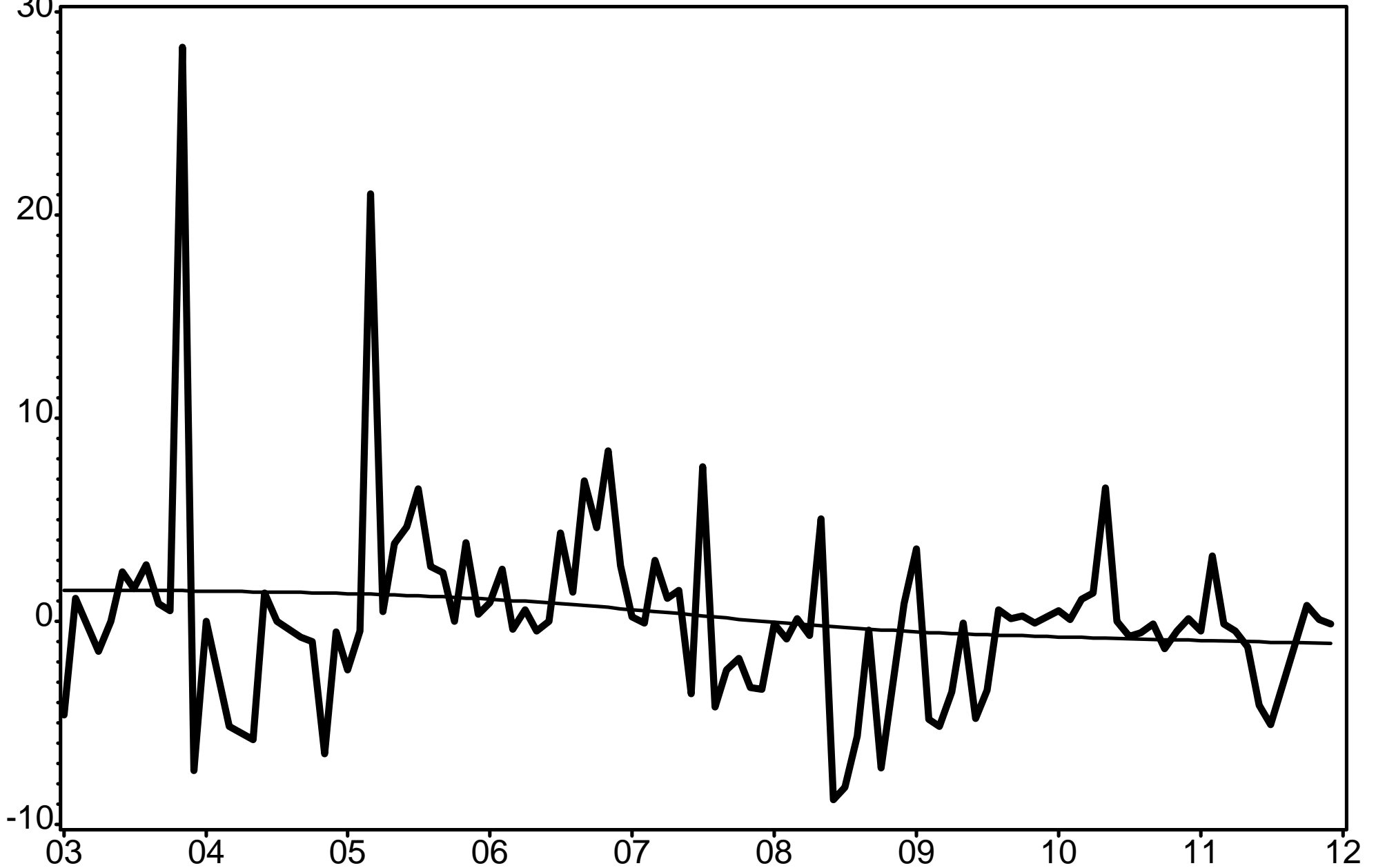
Matlacha Pass Trends Appendix - Display 1192

Monthly Data Time Series

for Surface Total Organic Carbon in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

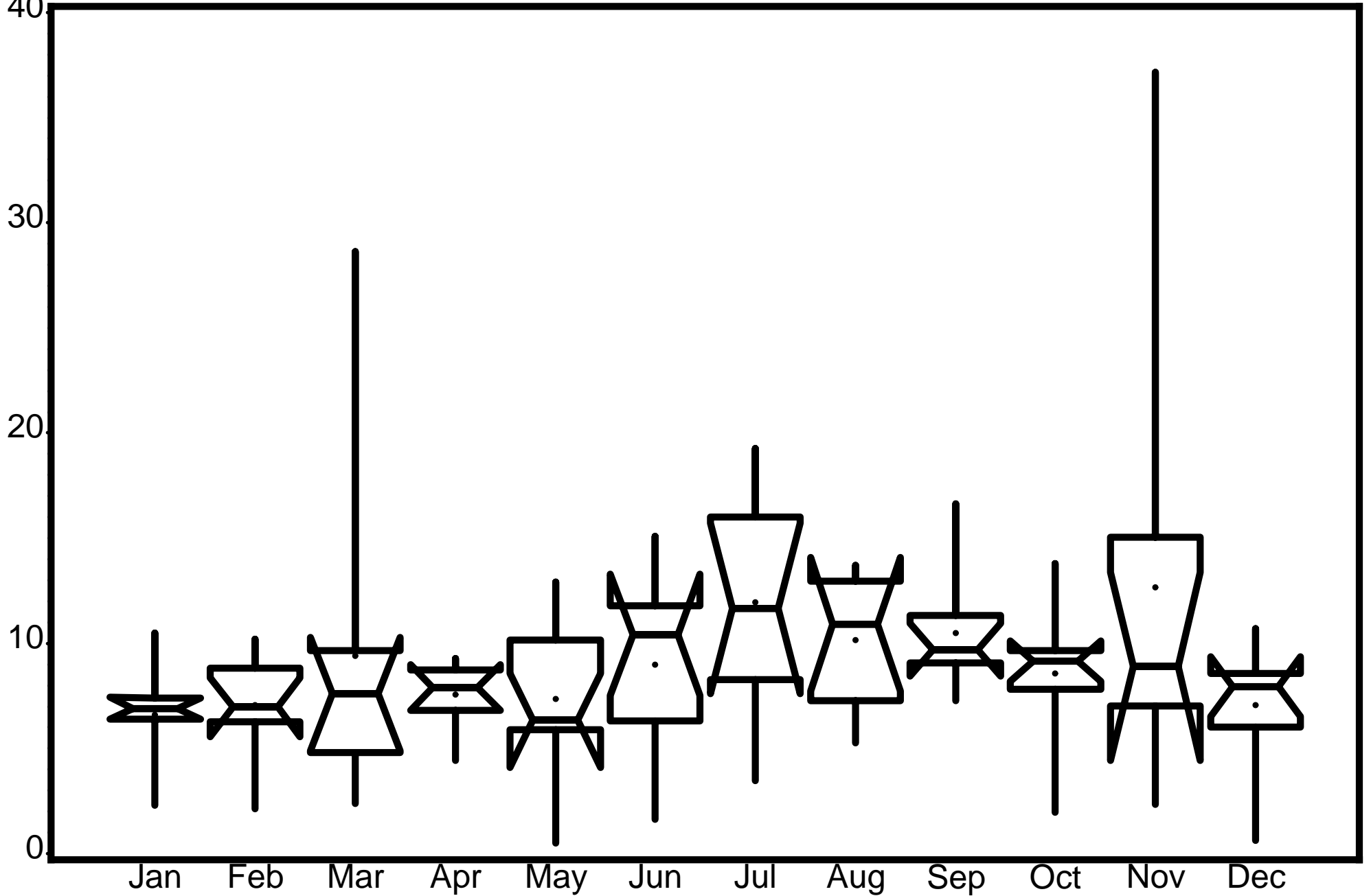


Matlacha Pass Trends Appendix - Display 1193

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Matlacha Pass

TOC_mgl
(mg/l)
40



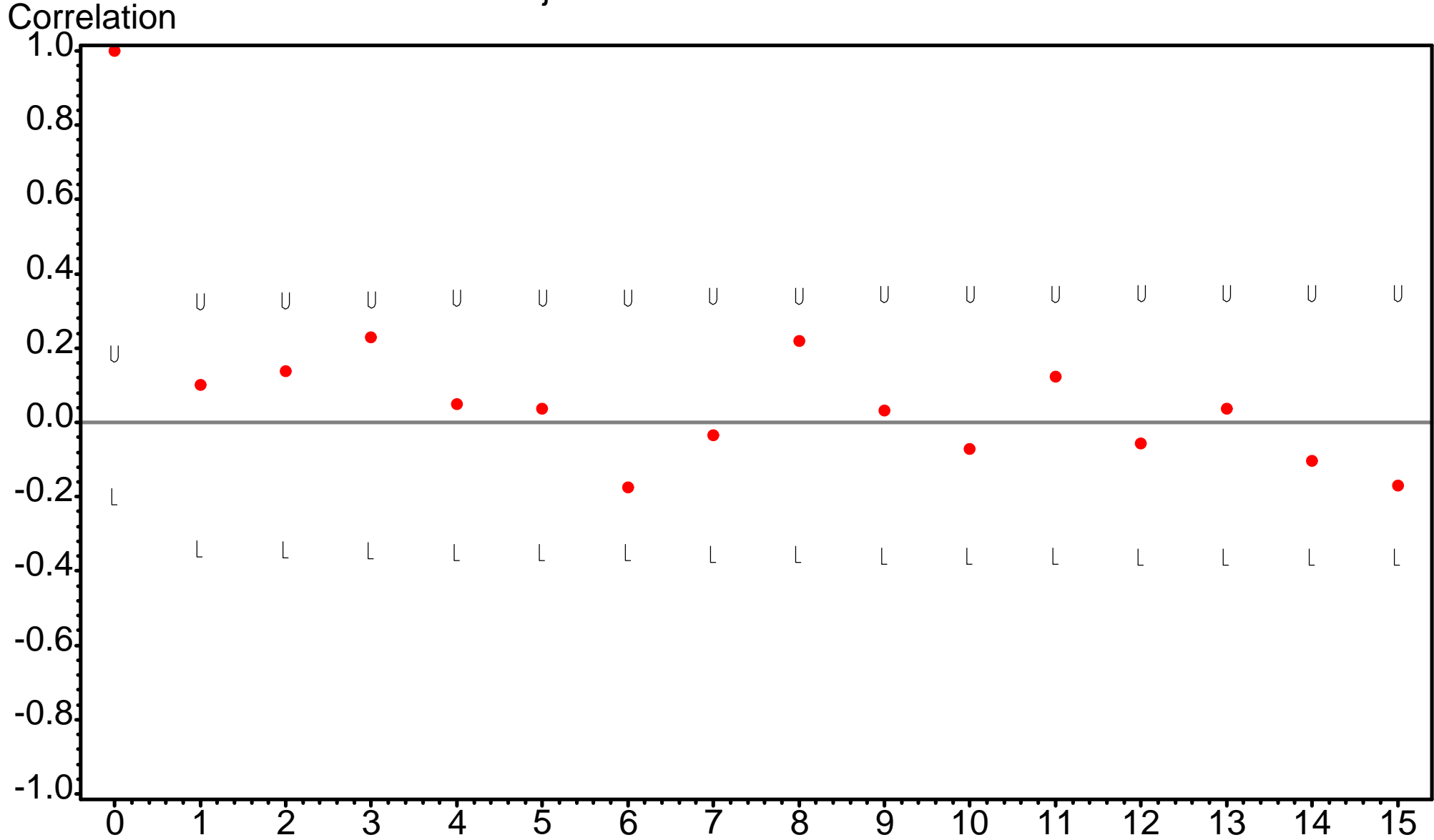
Matlacha Pass Trends Appendix - Display 1194
Autocorrelation Statistics for Surface Total Organic Carbon in Matlacha Pass

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.100	0.167	0.333	-0.333
2	0.139	0.167	0.334	-0.334
3	0.230	0.168	0.337	-0.337
4	0.049	0.171	0.342	-0.342
5	0.038	0.171	0.343	-0.343
6	-0.175	0.171	0.343	-0.343
7	-0.034	0.173	0.346	-0.346
8	0.220	0.173	0.346	-0.346
9	0.033	0.176	0.351	-0.351
10	-0.072	0.176	0.351	-0.351
11	0.123	0.176	0.352	-0.352
12	-0.057	0.177	0.354	-0.354
13	0.038	0.177	0.354	-0.354
14	-0.103	0.177	0.354	-0.354
15	-0.169	0.178	0.355	-0.355

Matlacha Pass Trends Appendix - Display 1195

Correlogram for Surface Total Organic Carbon in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1196
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.087	0.201	0.201	-0.179

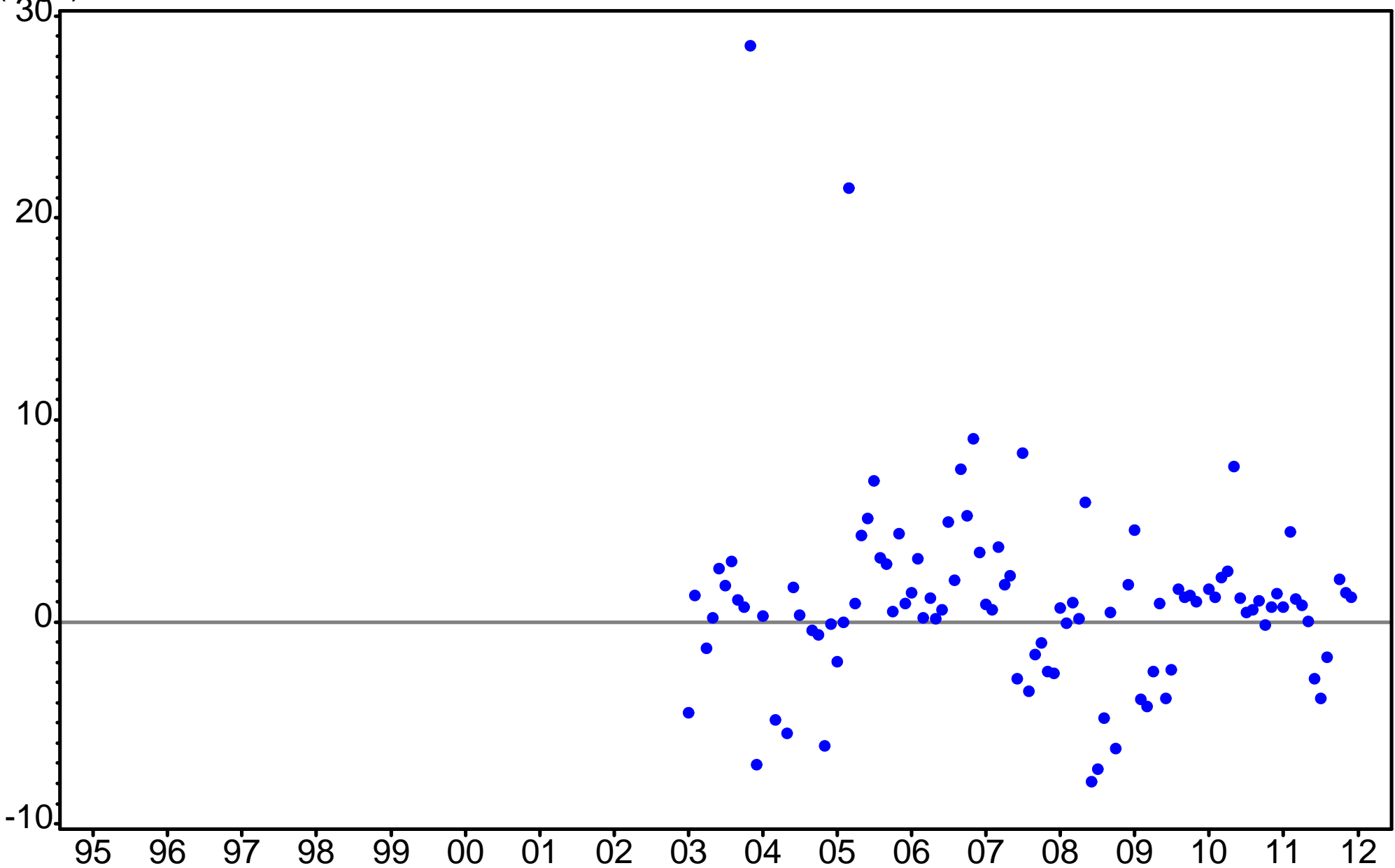
Matlacha Pass Trends Appendix - Display 1197
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.079787	0.33832	0.52684	-0.1375

Matlacha Pass Trends Appendix - Display 1198

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted Matlacha Pass

Adjusted
(mg/l)



Zero Reference Line Shown

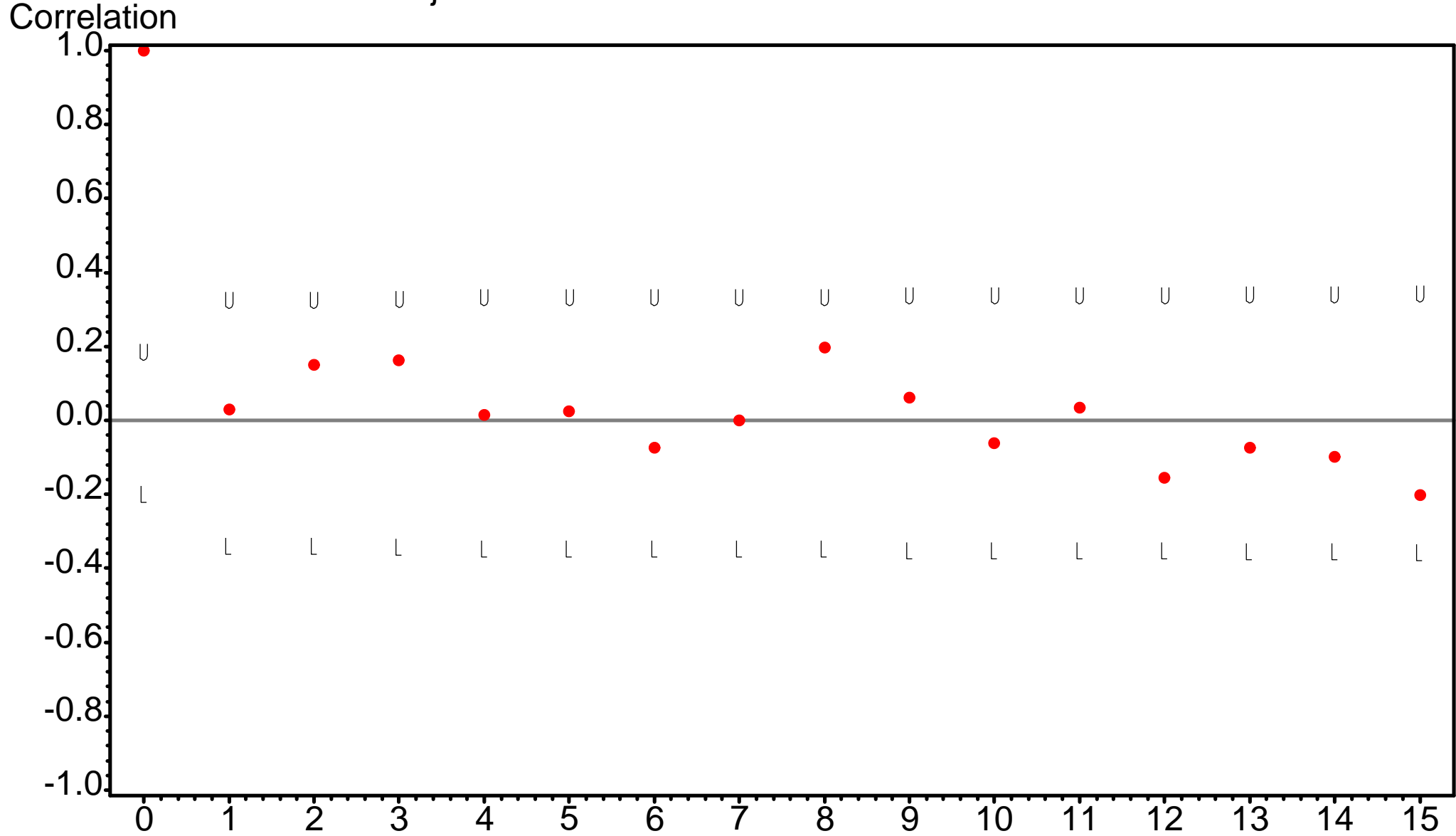
Matlacha Pass Trends Appendix - Display 1199
Autocorrelation Statistics for Surface Total Organic Carbon in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.030	0.167	0.333	-0.333
2	0.149	0.167	0.333	-0.333
3	0.163	0.168	0.336	-0.336
4	0.014	0.169	0.339	-0.339
5	0.024	0.169	0.339	-0.339
6	-0.075	0.169	0.339	-0.339
7	0.000	0.170	0.339	-0.339
8	0.197	0.170	0.339	-0.339
9	0.061	0.172	0.344	-0.344
10	-0.061	0.172	0.344	-0.344
11	0.034	0.172	0.345	-0.345
12	-0.155	0.172	0.345	-0.345
13	-0.073	0.174	0.347	-0.347
14	-0.098	0.174	0.348	-0.348
15	-0.202	0.174	0.349	-0.349

Matlacha Pass Trends Appendix - Display 1200

Correlogram for Surface Total Organic Carbon in Matlacha Pass

Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

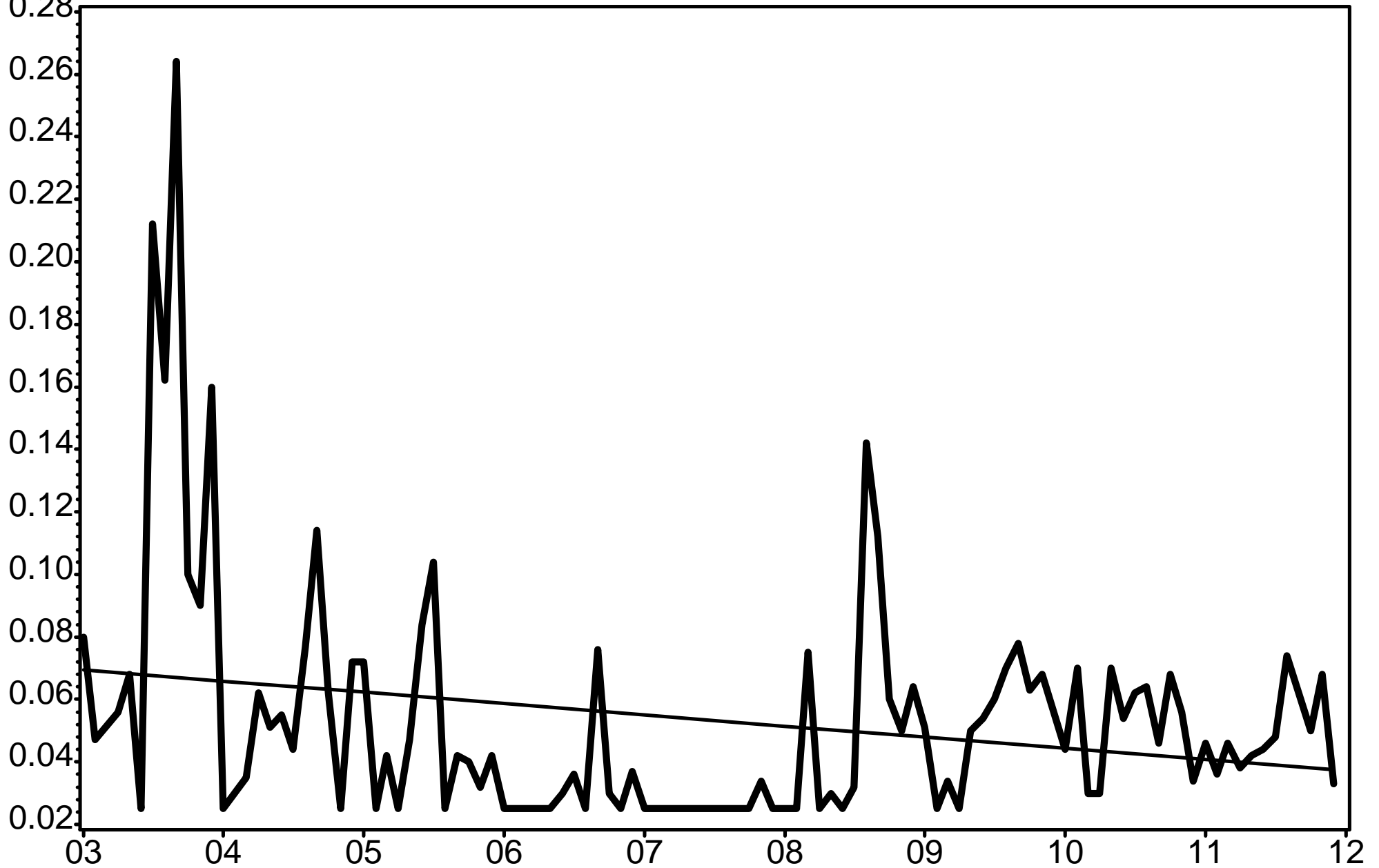
Matlacha Pass Trends Appendix - Display 1201

Monthly Data Time Series

for Surface Orthophosphate (as P) in Matlacha Pass

Not Adjusted for Seasonal Medians

TPO4_mgl
(mg/l)



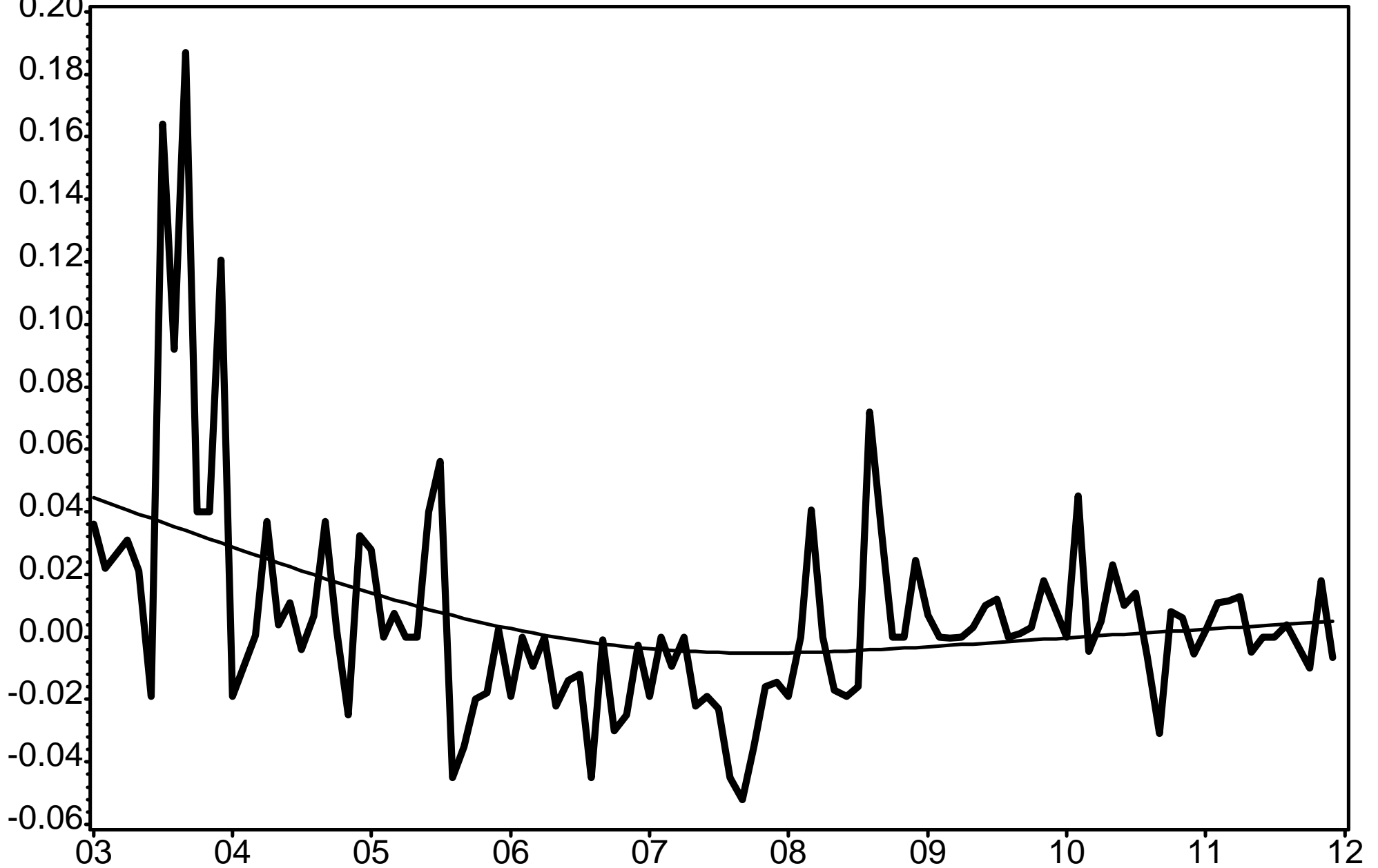
Matlacha Pass Trends Appendix - Display 1202

Monthly Data Time Series

for Surface Orthophosphate (as P) in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
TPO4_mgl
(mg/l)

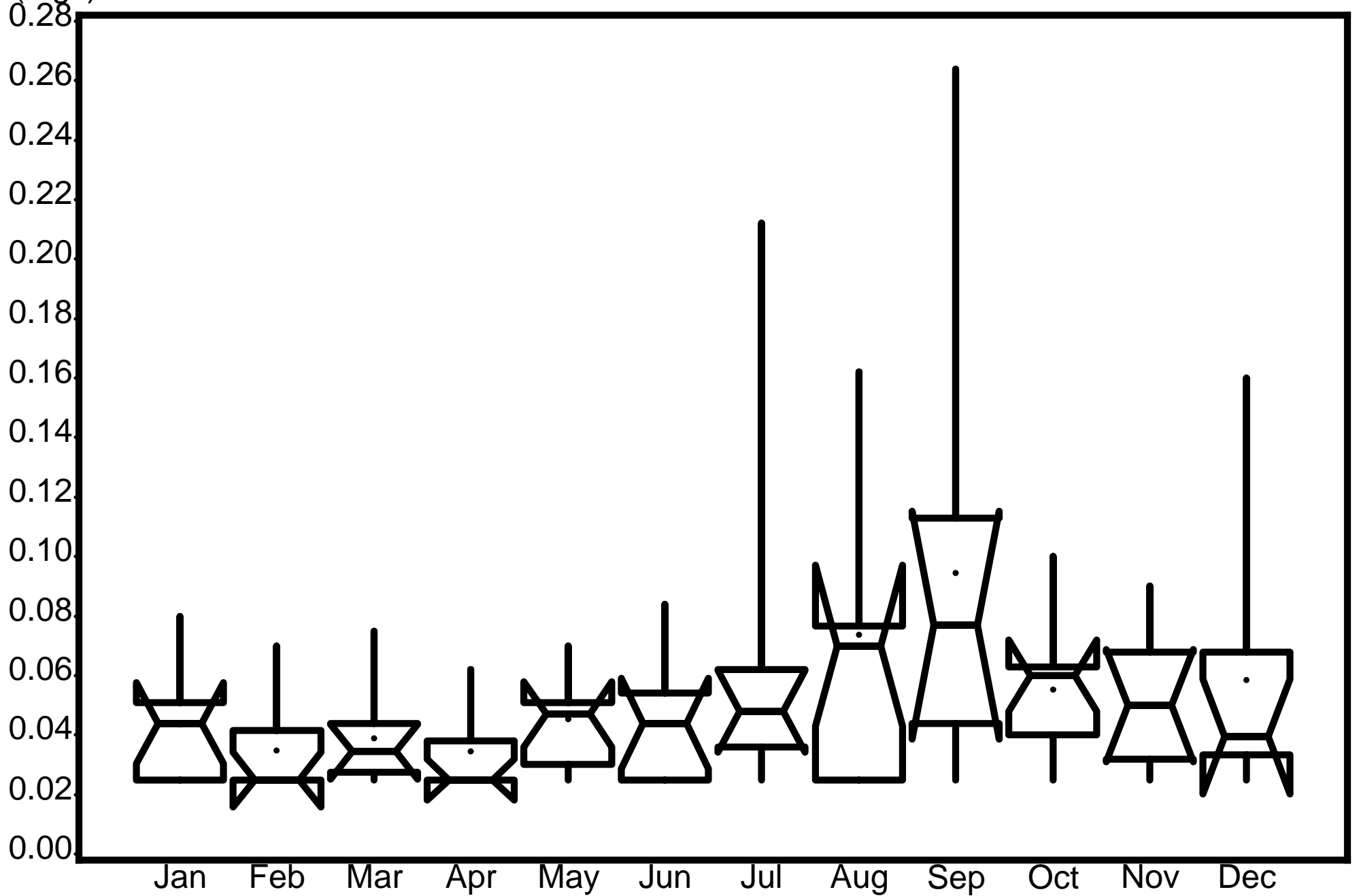


Matlacha Pass Trends Appendix - Display 1203

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Matlacha Pass

TPO4_mgl
(mg/l)



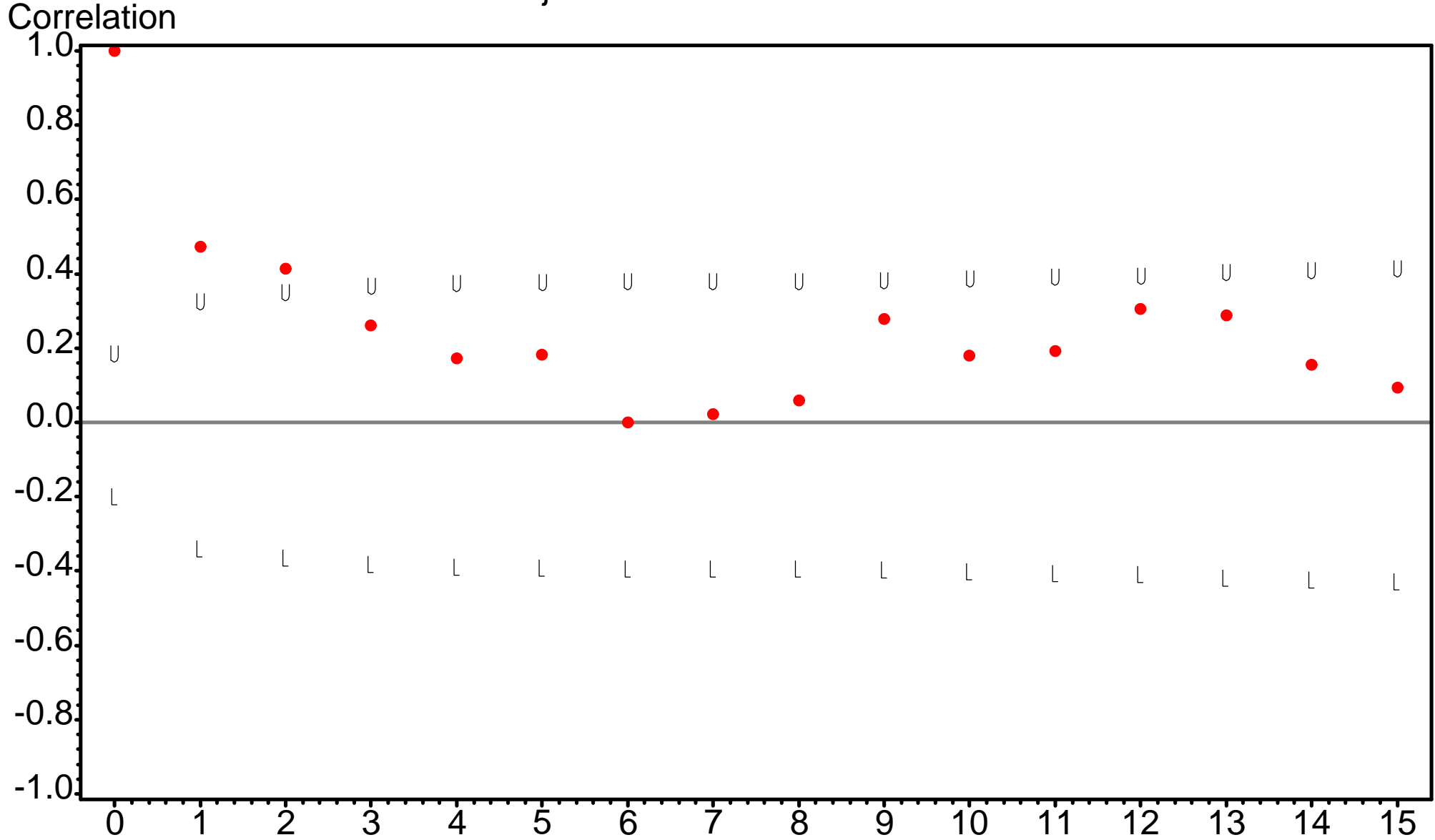
Matlacha Pass Trends Appendix - Display 1204
Autocorrelation Statistics for Surface Orthophosphate (as P) in Matlacha Pass

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.473	0.167	0.333	-0.333
2	0.413	0.179	0.357	-0.357
3	0.262	0.187	0.375	-0.375
4	0.173	0.191	0.381	-0.381
5	0.181	0.192	0.384	-0.384
6	0.000	0.194	0.387	-0.387
7	0.022	0.194	0.387	-0.387
8	0.060	0.194	0.387	-0.387
9	0.278	0.194	0.388	-0.388
10	0.179	0.198	0.395	-0.395
11	0.192	0.199	0.398	-0.398
12	0.305	0.201	0.401	-0.401
13	0.288	0.205	0.410	-0.410
14	0.156	0.209	0.417	-0.417
15	0.094	0.210	0.420	-0.420

Matlacha Pass Trends Appendix - Display 1205

Correlogram for Surface Orthophosphate (as P) in Matlacha Pass

Unadjusted for Seasonal Median



Lagged Orthophosphate (as P)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1206
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.025	0.701	0.701	0

Matlacha Pass Trends Appendix - Display 1207
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Matlacha Pass
Adjusted for Seasonal Medians

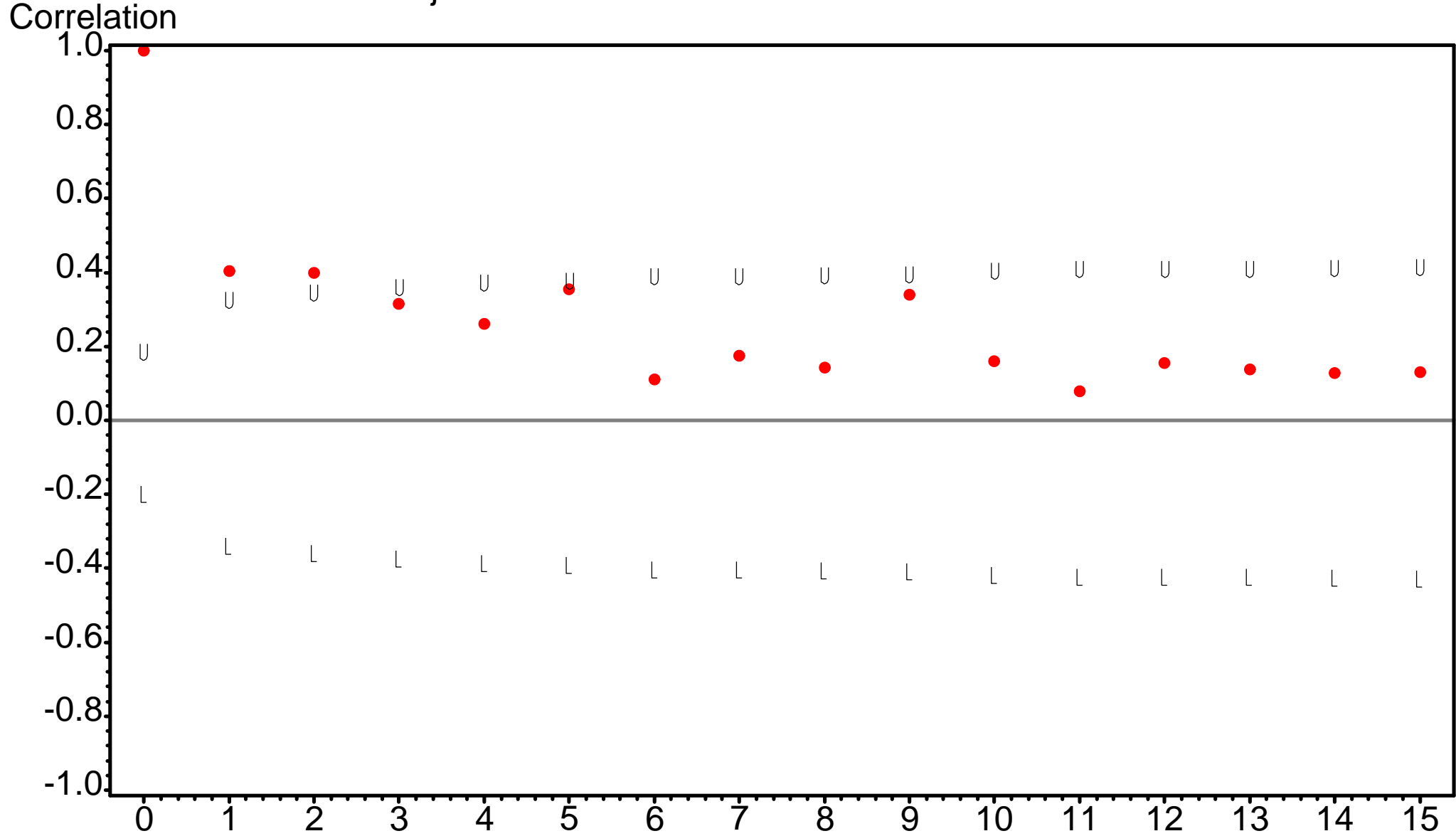
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.0625	0.43448	0.73005	0

Matlacha Pass Trends Appendix - Display 1209
Autocorrelation Statistics for Surface Orthophosphate (as P) in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.405	0.167	0.333	-0.333
2	0.400	0.176	0.351	-0.351
3	0.316	0.184	0.368	-0.368
4	0.261	0.189	0.378	-0.378
5	0.354	0.192	0.384	-0.384
6	0.112	0.198	0.396	-0.396
7	0.175	0.199	0.397	-0.397
8	0.144	0.200	0.400	-0.400
9	0.339	0.201	0.402	-0.402
10	0.160	0.206	0.412	-0.412
11	0.080	0.207	0.415	-0.415
12	0.156	0.208	0.415	-0.415
13	0.139	0.209	0.417	-0.417
14	0.128	0.210	0.419	-0.419
15	0.131	0.210	0.421	-0.421

Matlacha Pass Trends Appendix - Display 1210

Correlogram for Surface Orthophosphate (as P) in Matlacha Pass Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

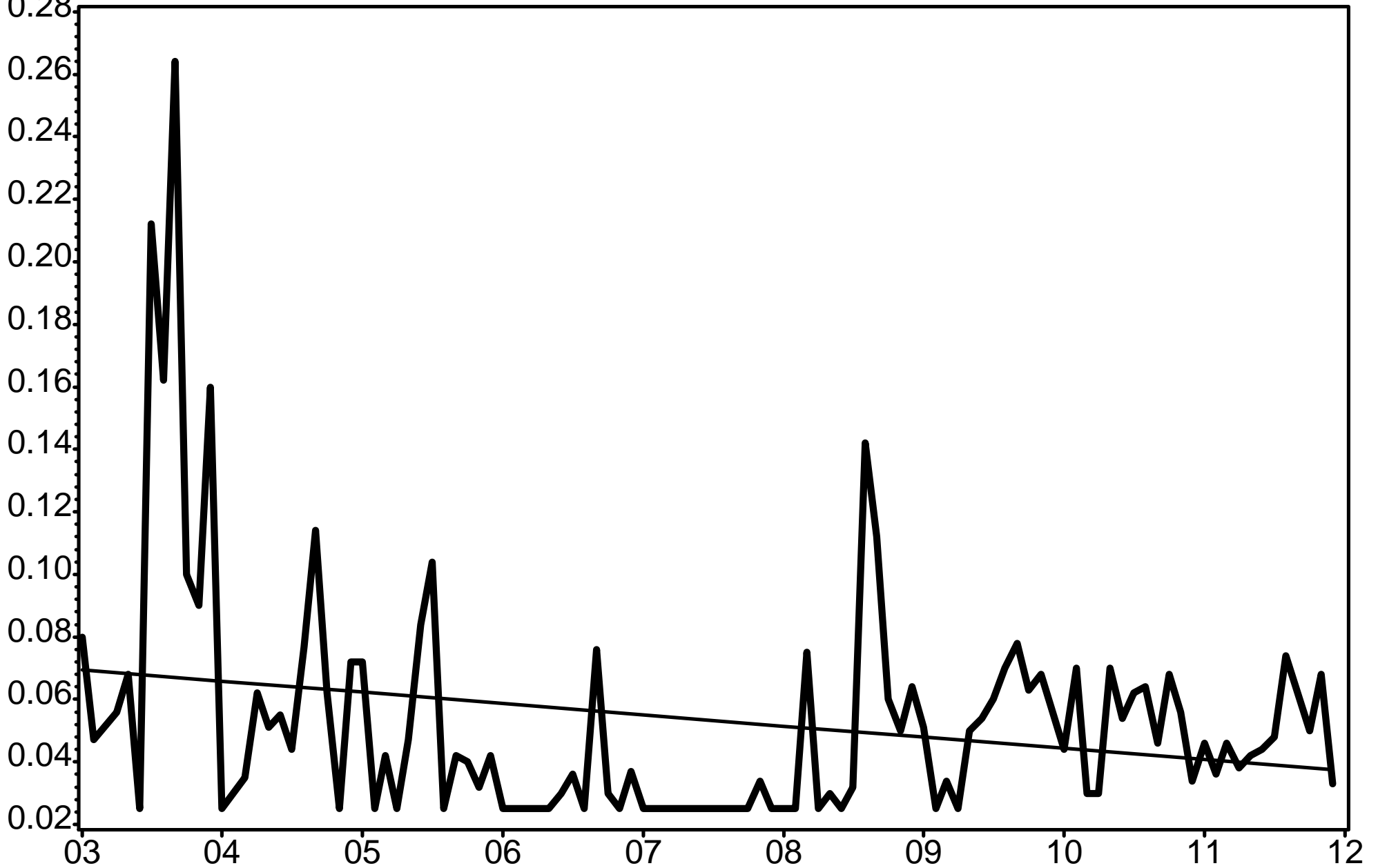
Matlacha Pass Trends Appendix - Display 1211

Monthly Data Time Series

for Surface Total Phosphorous in Matlacha Pass

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



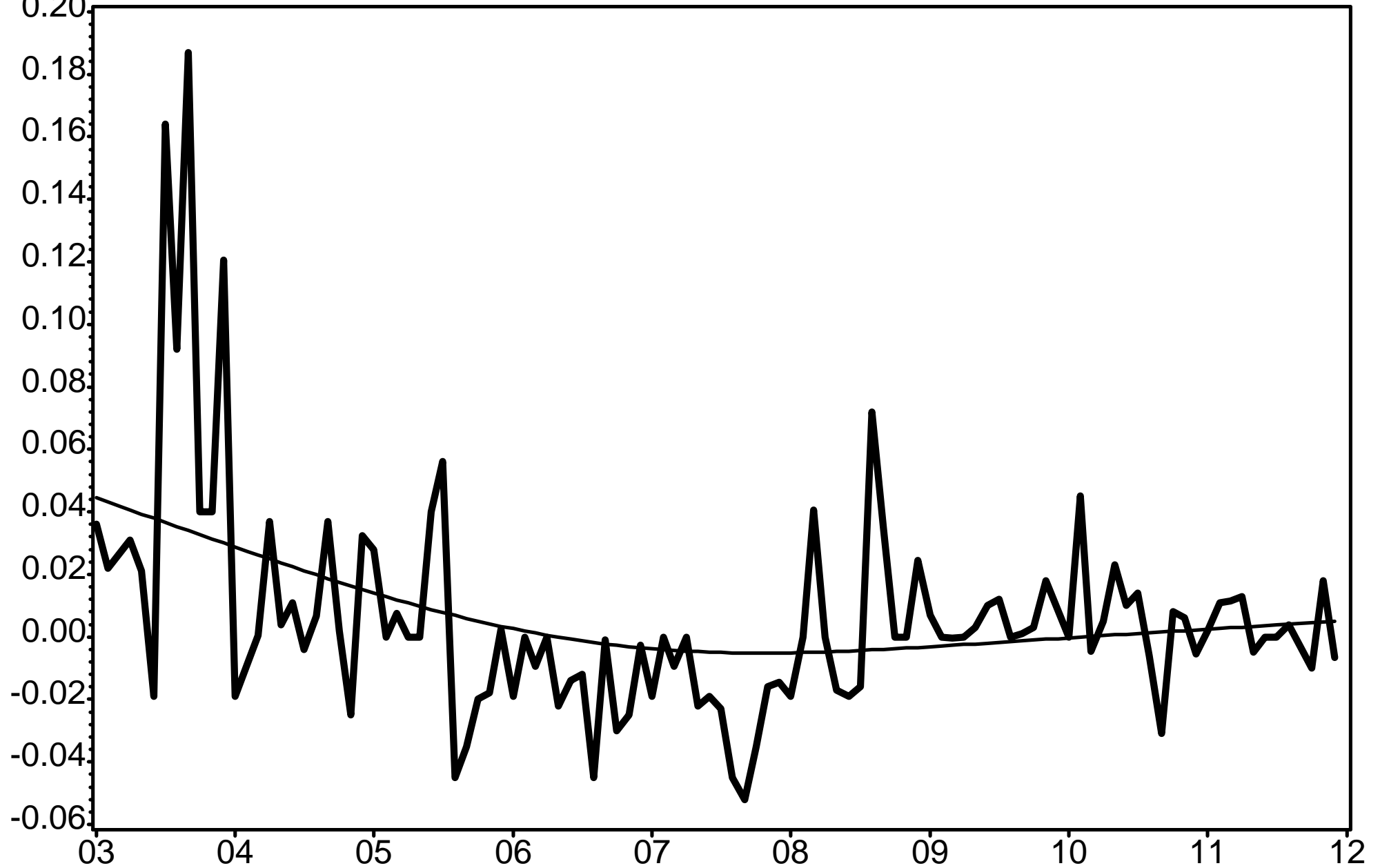
Matlacha Pass Trends Appendix - Display 1212

Monthly Data Time Series

for Surface Total Phosphorous in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

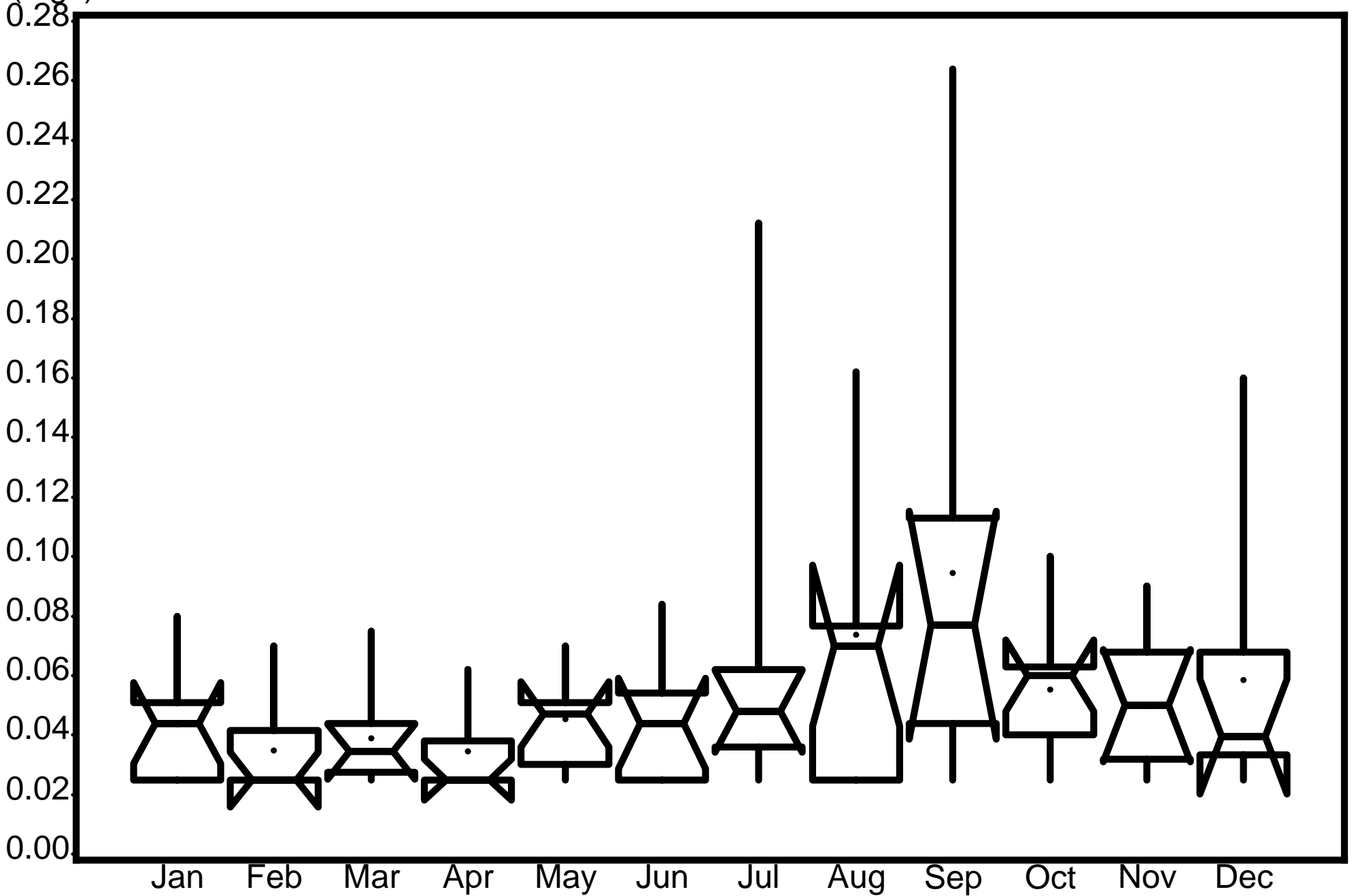


Matlacha Pass Trends Appendix - Display 1213

Seasonal Univariate Statistics

for Surface Total Phosphorous in Matlacha Pass

TP_mgl
(mg/l)



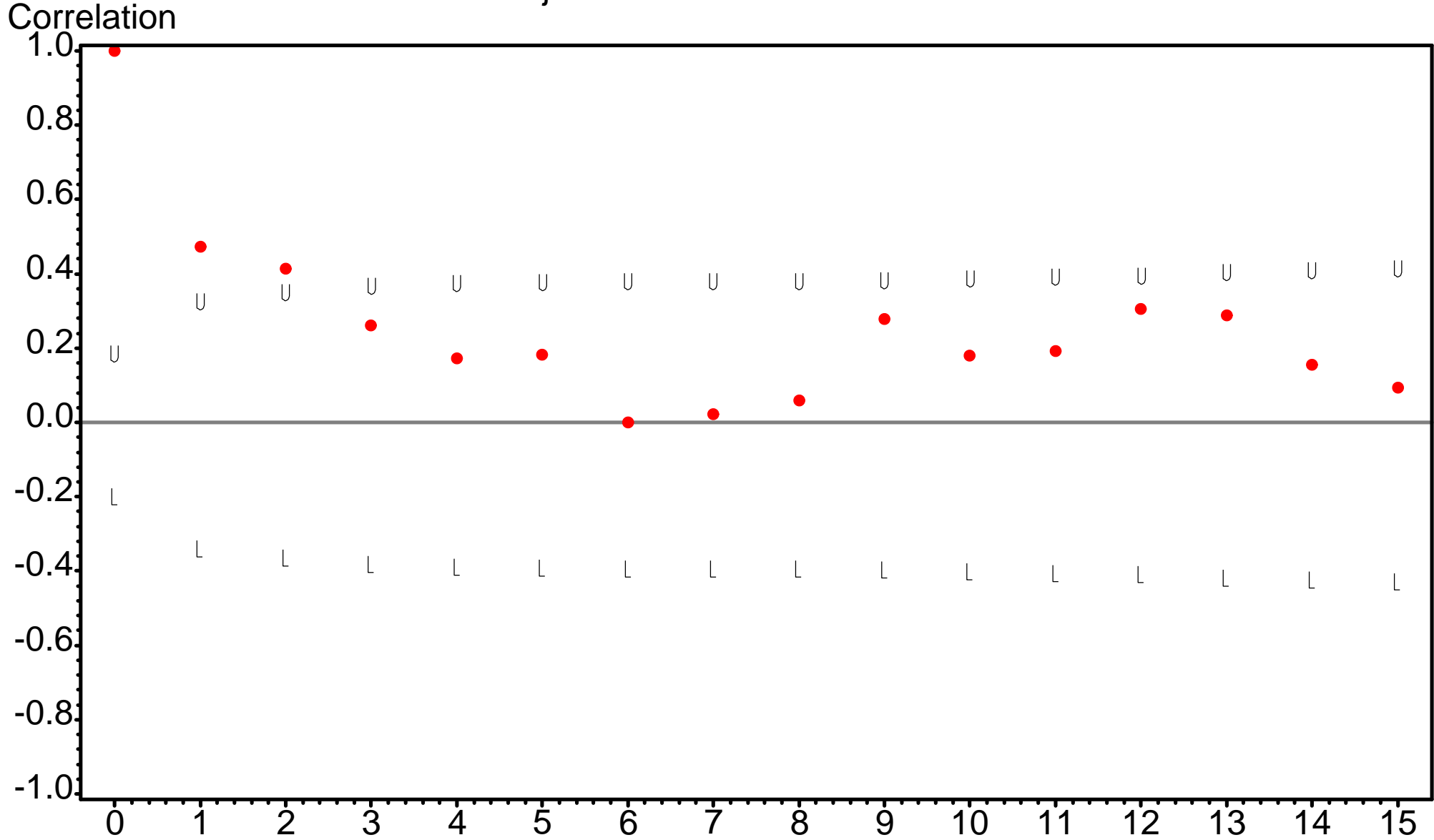
Matlacha Pass Trends Appendix - Display 1214
Autocorrelation Statistics for Surface Total Phosphorous in Matlacha Pass

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.473	0.167	0.333	-0.333
2	0.413	0.179	0.357	-0.357
3	0.262	0.187	0.375	-0.375
4	0.173	0.191	0.381	-0.381
5	0.181	0.192	0.384	-0.384
6	0.000	0.194	0.387	-0.387
7	0.022	0.194	0.387	-0.387
8	0.060	0.194	0.387	-0.387
9	0.278	0.194	0.388	-0.388
10	0.179	0.198	0.395	-0.395
11	0.192	0.199	0.398	-0.398
12	0.305	0.201	0.401	-0.401
13	0.288	0.205	0.410	-0.410
14	0.156	0.209	0.417	-0.417
15	0.094	0.210	0.420	-0.420

Matlacha Pass Trends Appendix - Display 1215

Correlogram for Surface Total Phosphorous in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1216
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.025	0.701	0.701	0

Matlacha Pass Trends Appendix - Display 1217
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.0625	0.43448	0.73005	0

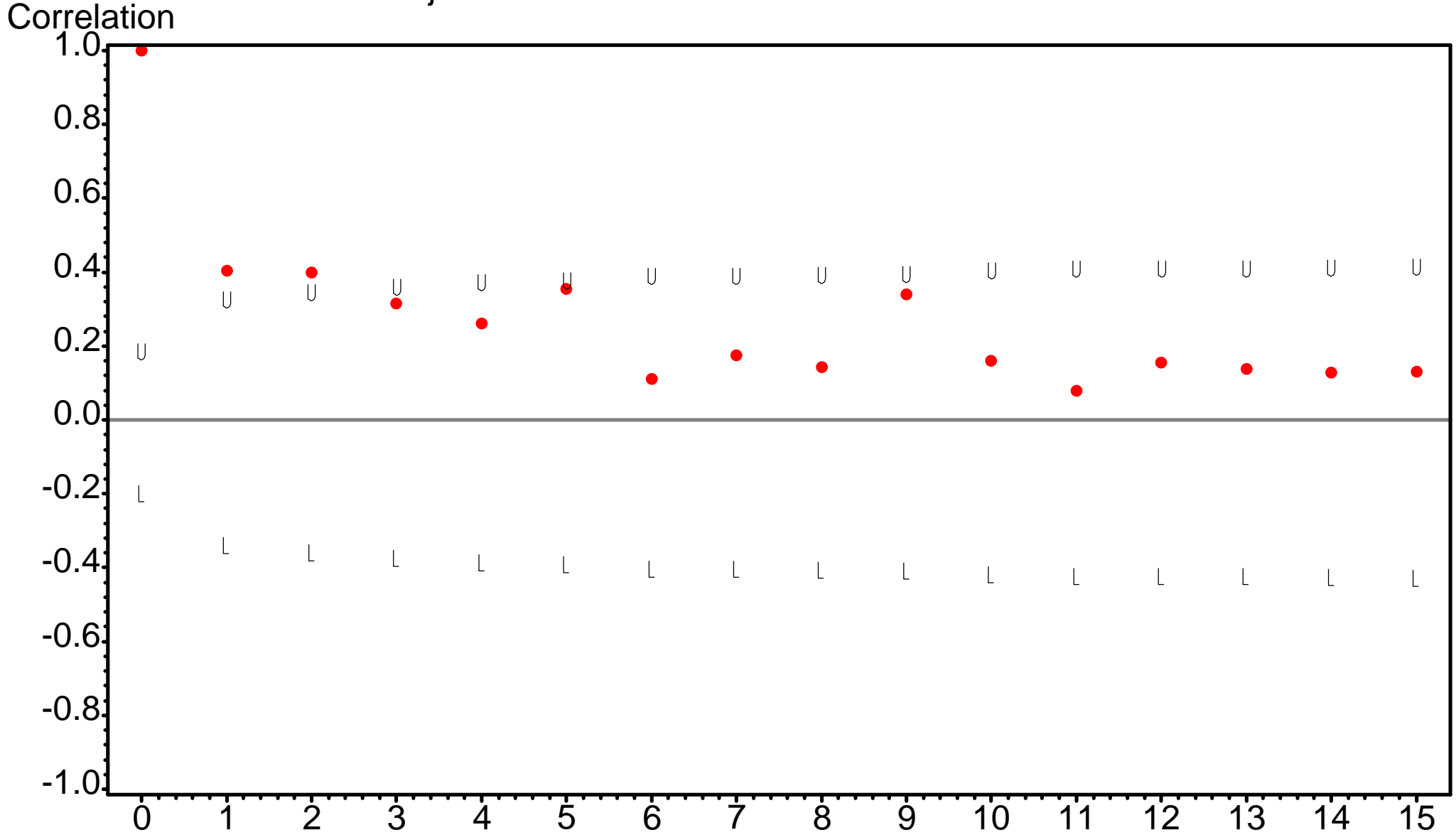
Matlacha Pass Trends Appendix - Display 1219
Autocorrelation Statistics for Surface Total Phosphorous in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.405	0.167	0.333	-0.333
2	0.400	0.176	0.351	-0.351
3	0.316	0.184	0.368	-0.368
4	0.261	0.189	0.378	-0.378
5	0.354	0.192	0.384	-0.384
6	0.112	0.198	0.396	-0.396
7	0.175	0.199	0.397	-0.397
8	0.144	0.200	0.400	-0.400
9	0.339	0.201	0.402	-0.402
10	0.160	0.206	0.412	-0.412
11	0.080	0.207	0.415	-0.415
12	0.156	0.208	0.415	-0.415
13	0.139	0.209	0.417	-0.417
14	0.128	0.210	0.419	-0.419
15	0.131	0.210	0.421	-0.421

Matlacha Pass Trends Appendix - Display 1220

Correlogram for Surface Total Phosphorous in Matlacha Pass

Adjusted for Seasonal Median and Detrended



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

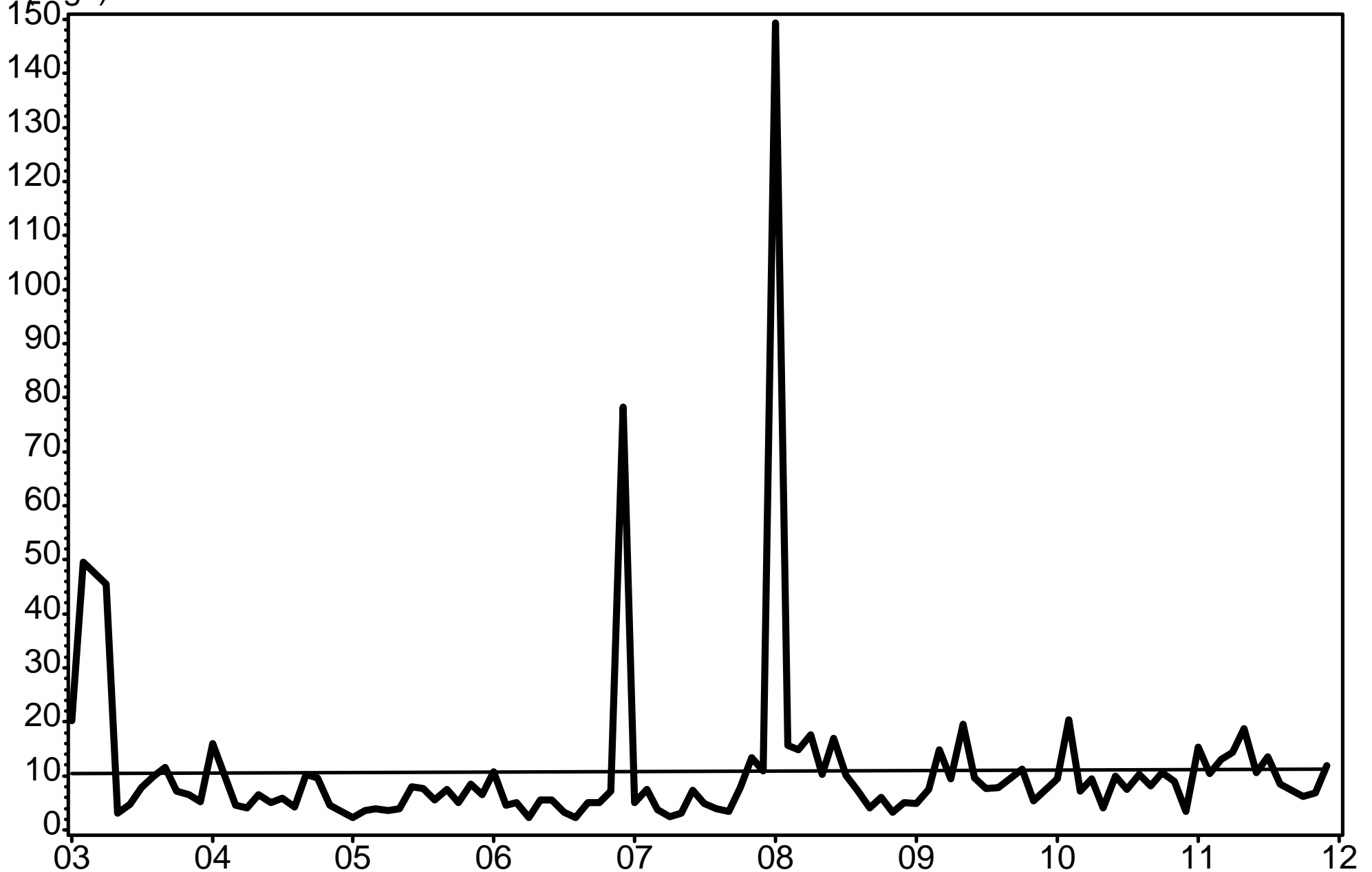
Matlacha Pass Trends Appendix - Display 1221

Monthly Data Time Series

for Surface Total Suspended Solids in Matlacha Pass

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



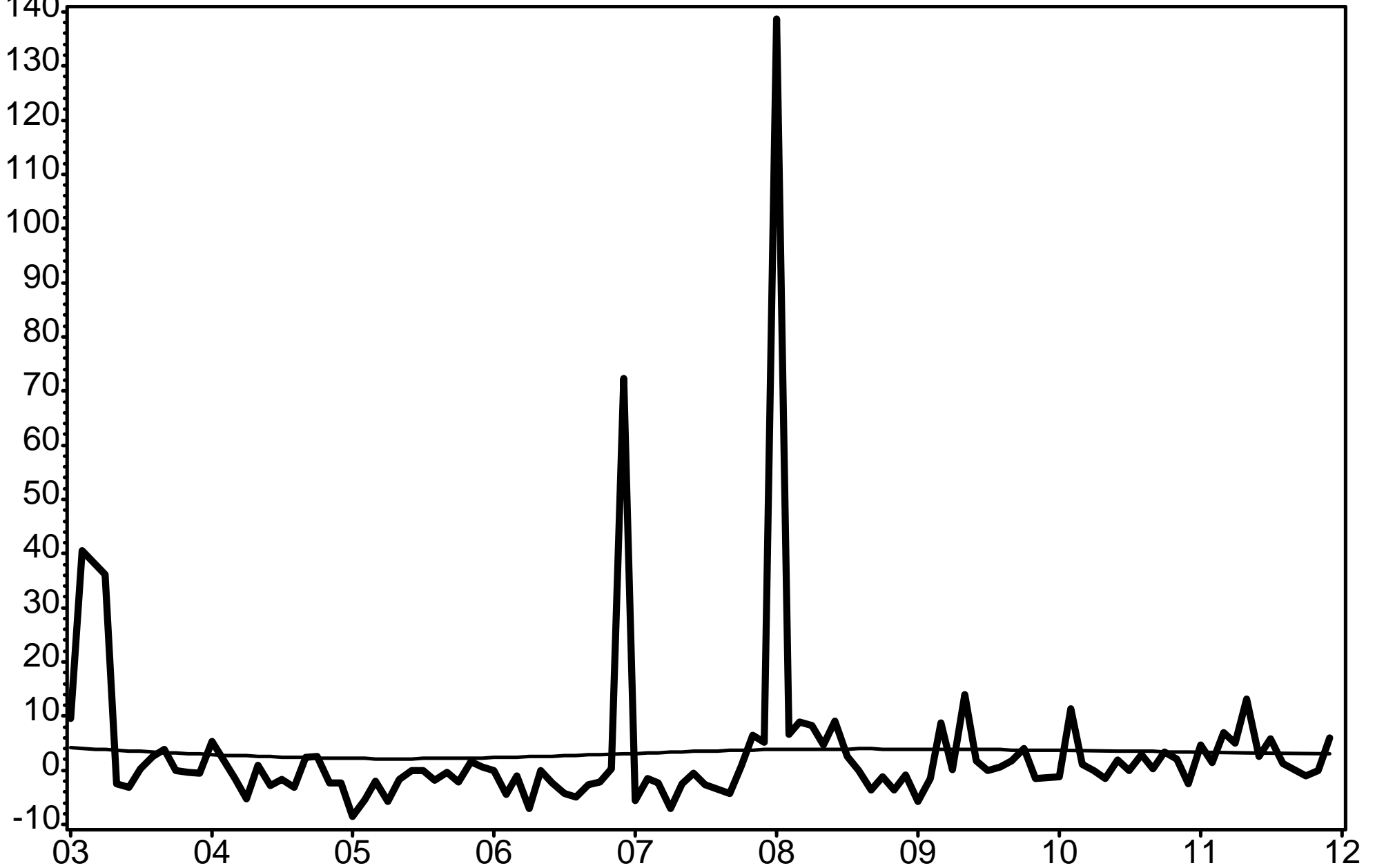
Matlacha Pass Trends Appendix - Display 1222

Monthly Data Time Series

for Surface Total Suspended Solids in Matlacha Pass

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

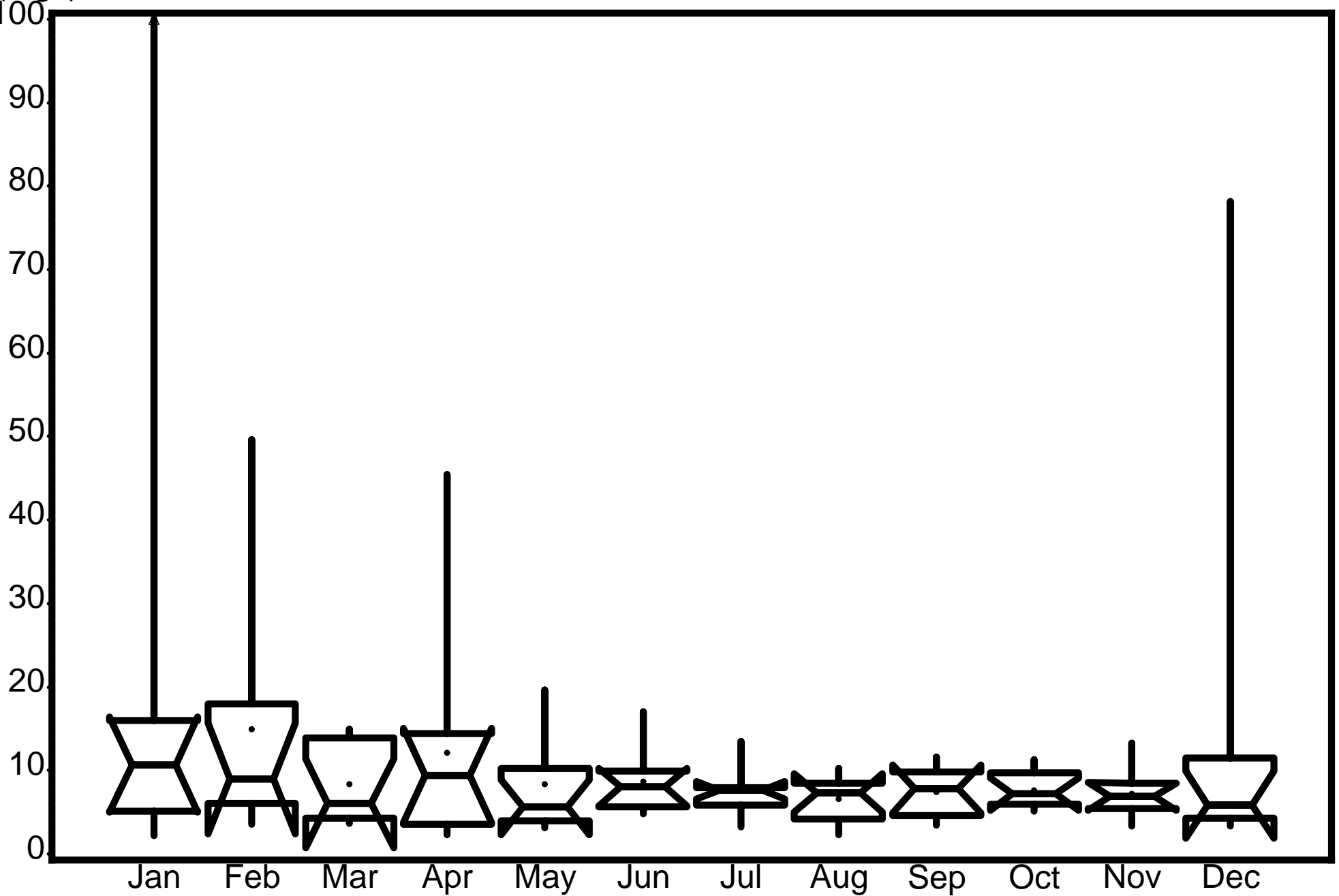


Matlacha Pass Trends Appendix - Display 1223

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Matlacha Pass

TSS_mgl
(mg/l)



Matlacha Pass Trends Appendix - Display 1224

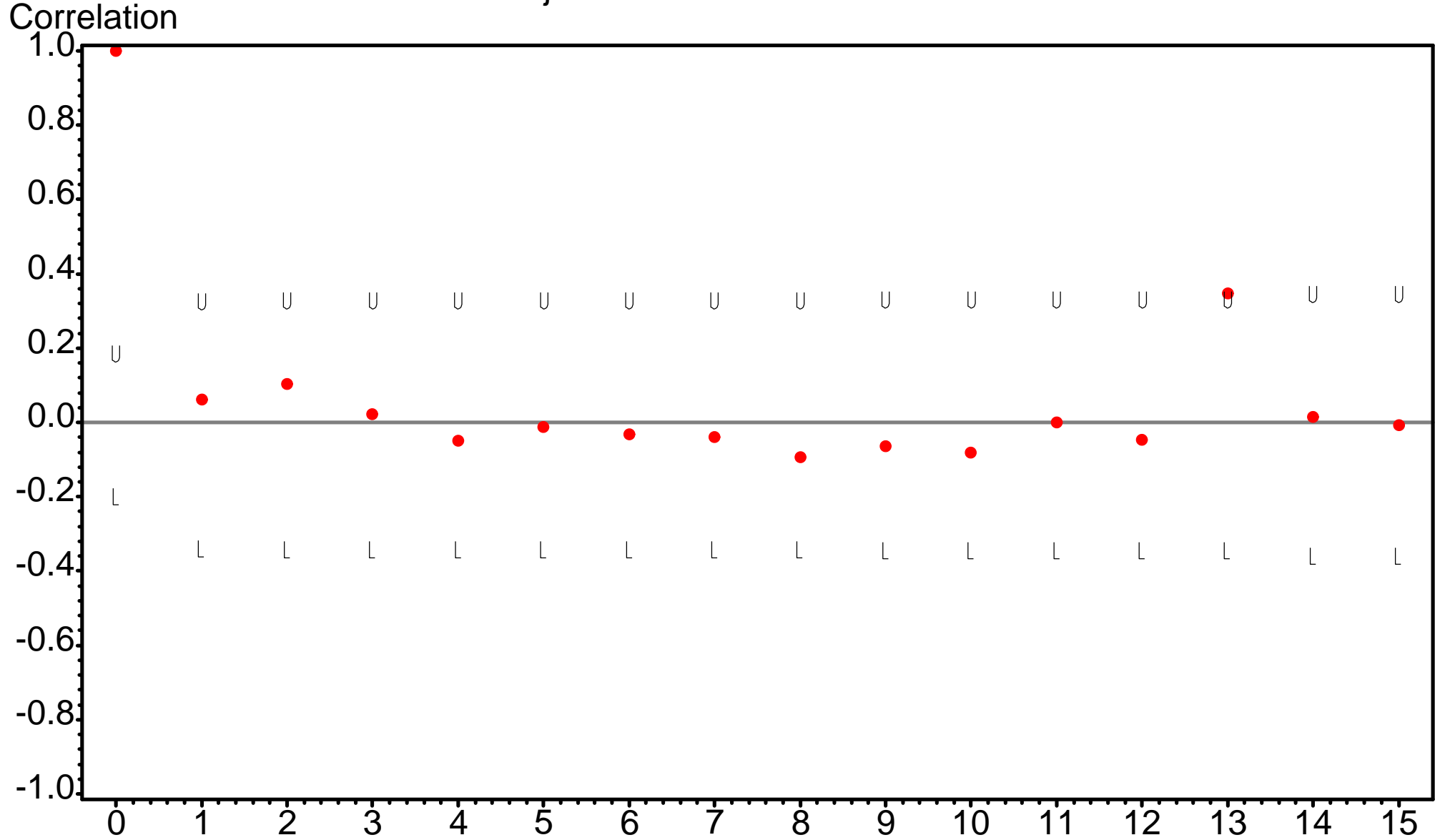
Autocorrelation Statistics for Surface Total Suspended Solids in Matlacha Pass

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.061	0.167	0.333	-0.333
2	0.104	0.167	0.334	-0.334
3	0.023	0.167	0.335	-0.335
4	-0.050	0.168	0.335	-0.335
5	-0.012	0.168	0.335	-0.335
6	-0.033	0.168	0.335	-0.335
7	-0.040	0.168	0.335	-0.335
8	-0.094	0.168	0.336	-0.336
9	-0.064	0.168	0.337	-0.337
10	-0.080	0.169	0.337	-0.337
11	0.000	0.169	0.338	-0.338
12	-0.046	0.169	0.338	-0.338
13	0.347	0.169	0.338	-0.338
14	0.016	0.175	0.351	-0.351
15	-0.007	0.175	0.351	-0.351

Matlacha Pass Trends Appendix - Display 1225

Correlogram for Surface Total Suspended Solids in Matlacha Pass

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1226
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Matlacha Pass
Unadjusted for Seasonal Medians

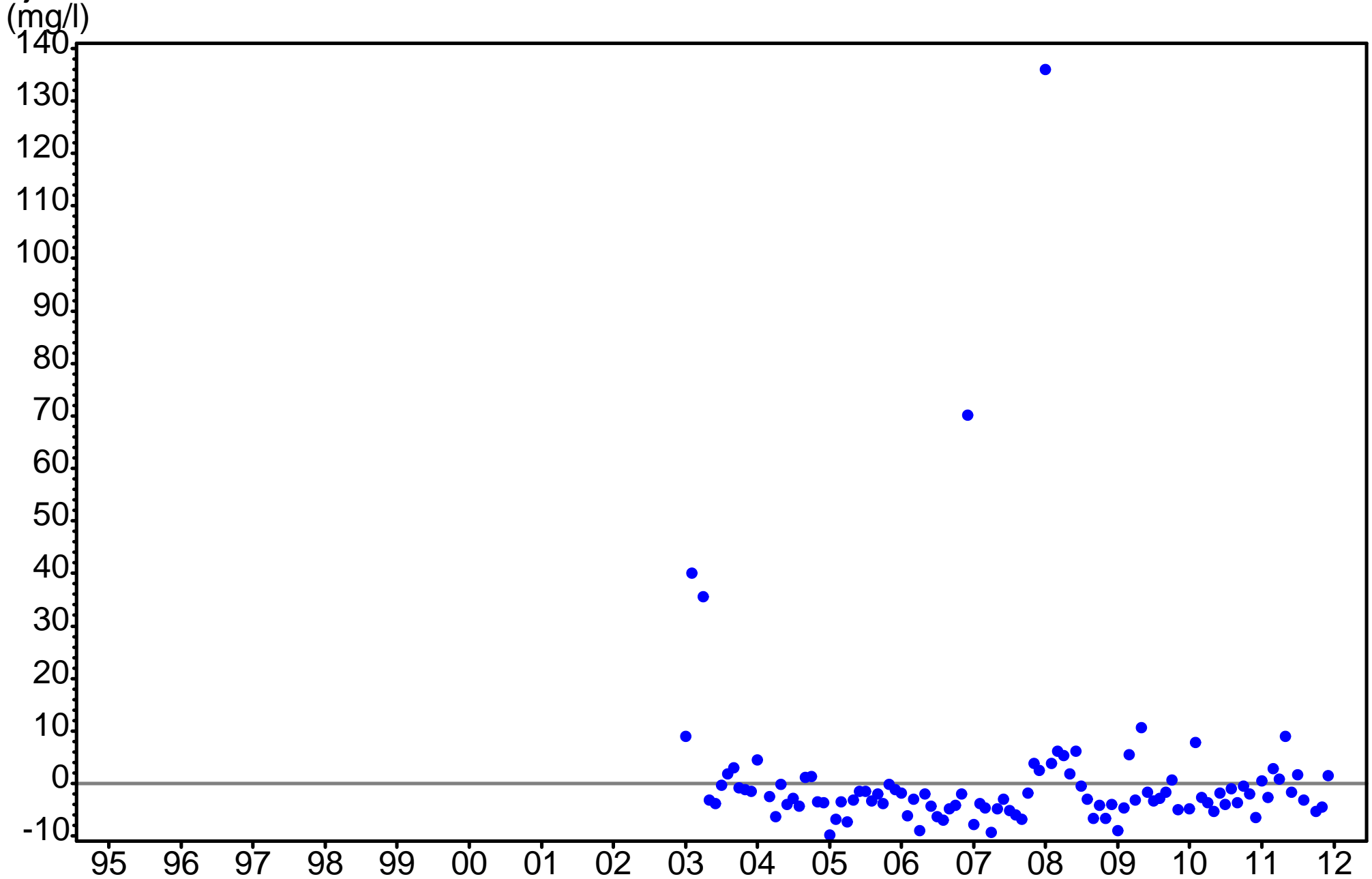
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.191	.004	.004	0.487

Matlacha Pass Trends Appendix - Display 1227
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1975	0.013376	0.11395	0.45

Matlacha Pass Trends Appendix - Display 1228

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Matlacha Pass



Zero Reference Line Shown

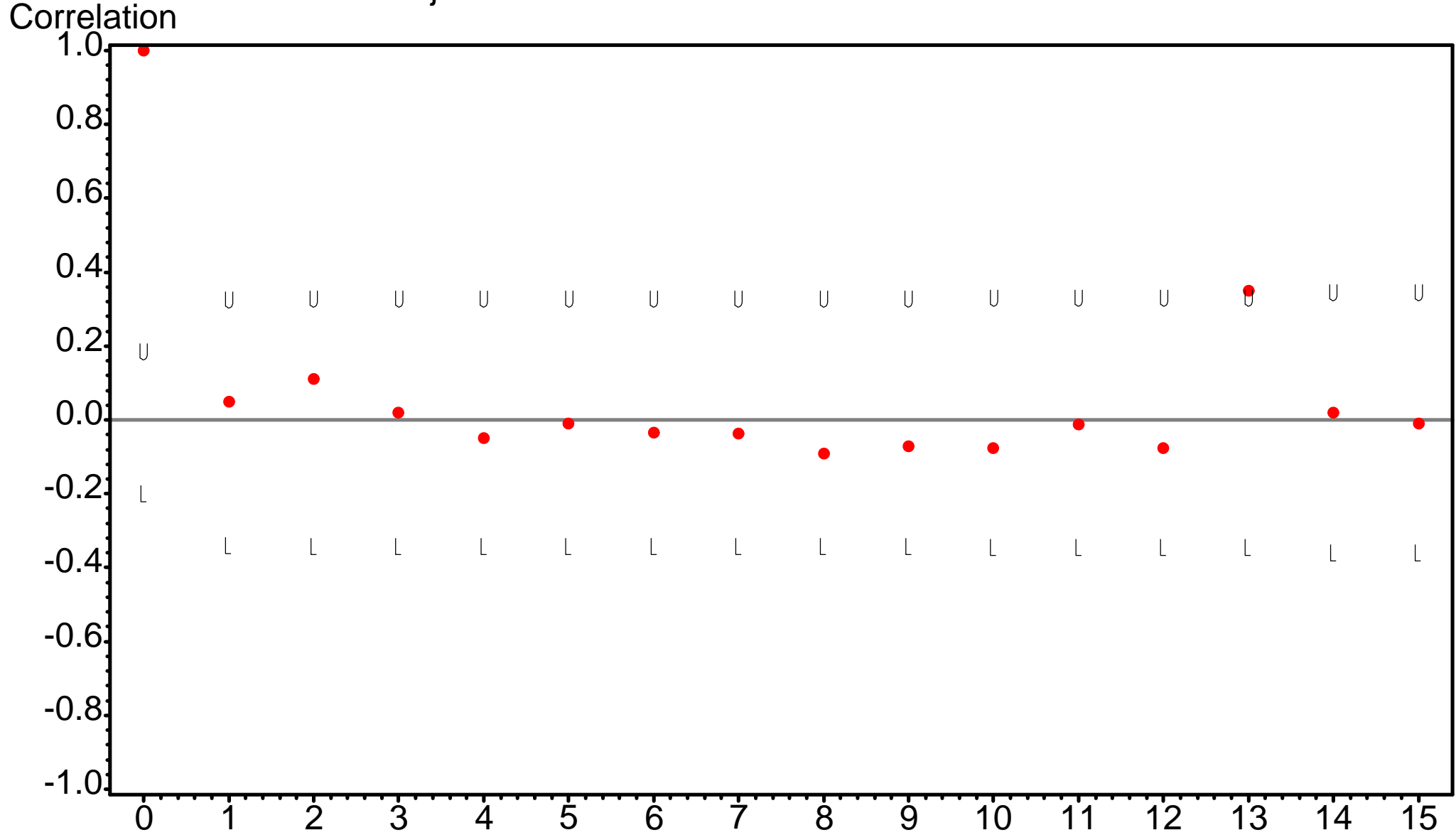
Matlacha Pass Trends Appendix - Display 1229
Autocorrelation Statistics for Surface Total Suspended Solids in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.049	0.167	0.333	-0.333
2	0.111	0.167	0.334	-0.334
3	0.019	0.167	0.335	-0.335
4	-0.050	0.167	0.335	-0.335
5	-0.010	0.168	0.335	-0.335
6	-0.035	0.168	0.335	-0.335
7	-0.036	0.168	0.335	-0.335
8	-0.092	0.168	0.336	-0.336
9	-0.072	0.168	0.336	-0.336
10	-0.076	0.169	0.337	-0.337
11	-0.012	0.169	0.338	-0.338
12	-0.076	0.169	0.338	-0.338
13	0.350	0.169	0.338	-0.338
14	0.019	0.176	0.351	-0.351
15	-0.009	0.176	0.352	-0.352

Matlacha Pass Trends Appendix - Display 1230

Correlogram for Surface Total Suspended Solids in Matlacha Pass

Adjusted for Seasonal Median and Detrended

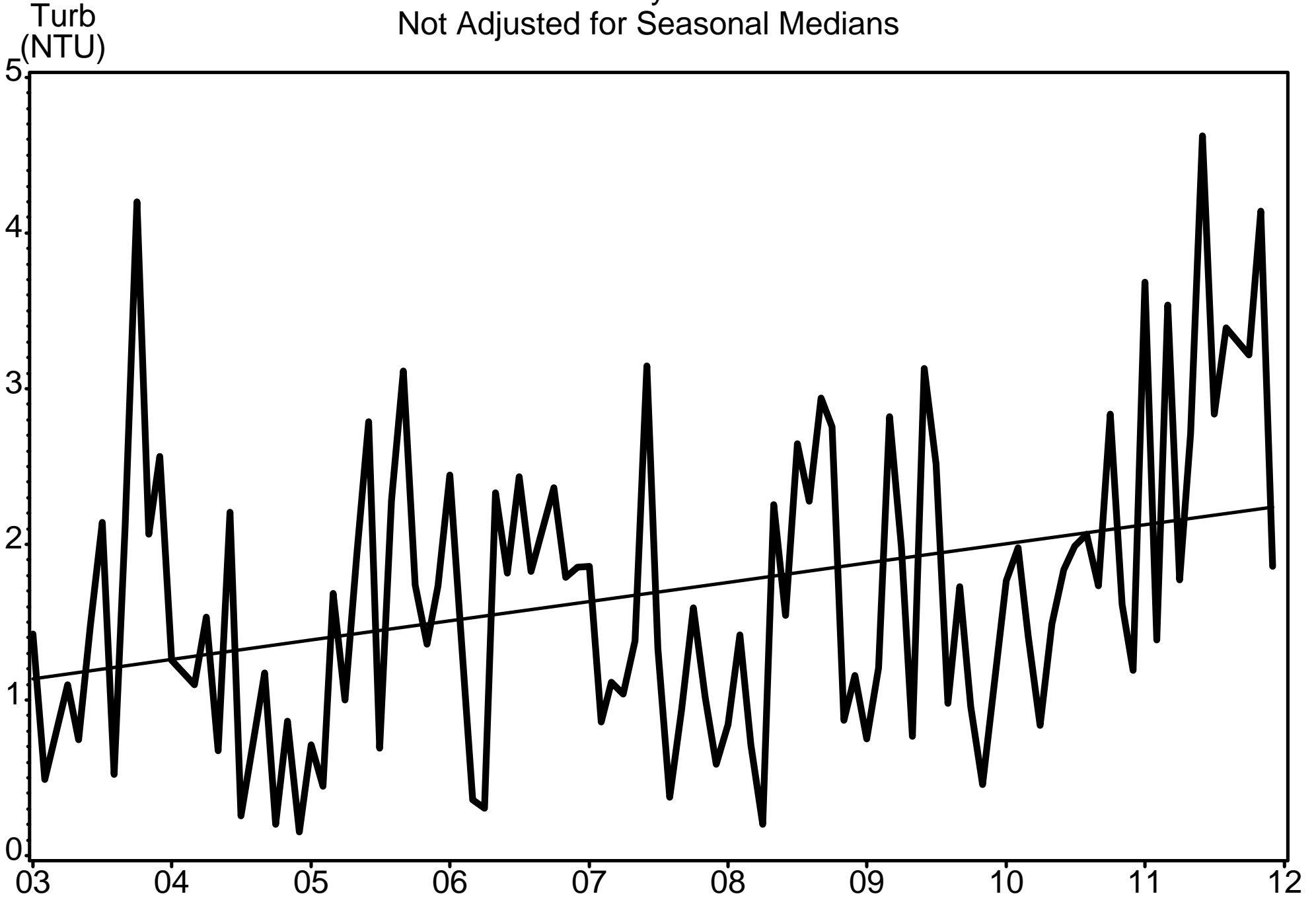


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1231

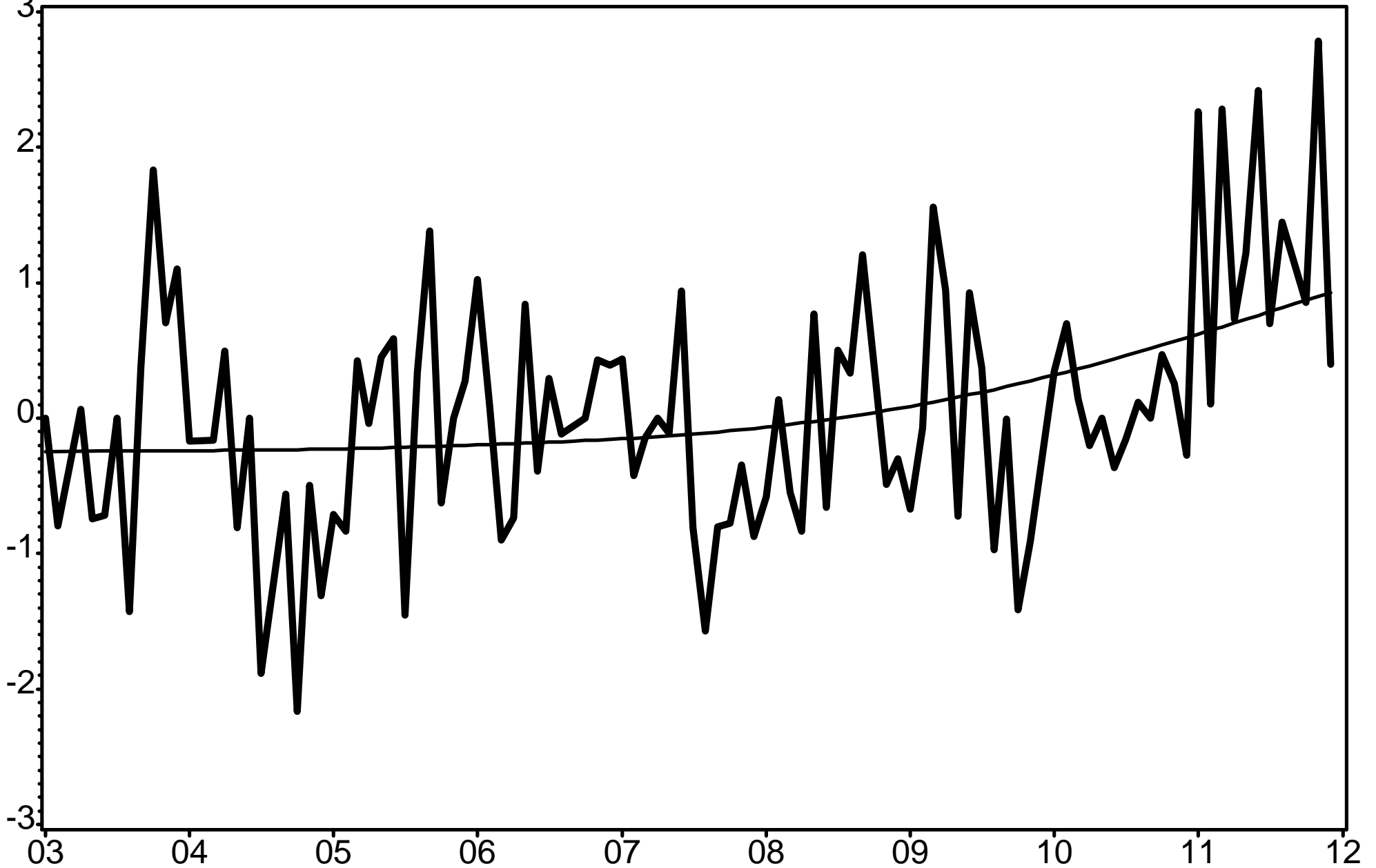
Monthly Data Time Series
for Surface Turbidity in Matlacha Pass
Not Adjusted for Seasonal Medians



Matlacha Pass Trends Appendix - Display 1232

Monthly Data Time Series
for Surface Turbidity in Matlacha Pass
Adjusted for Seasonal Medians

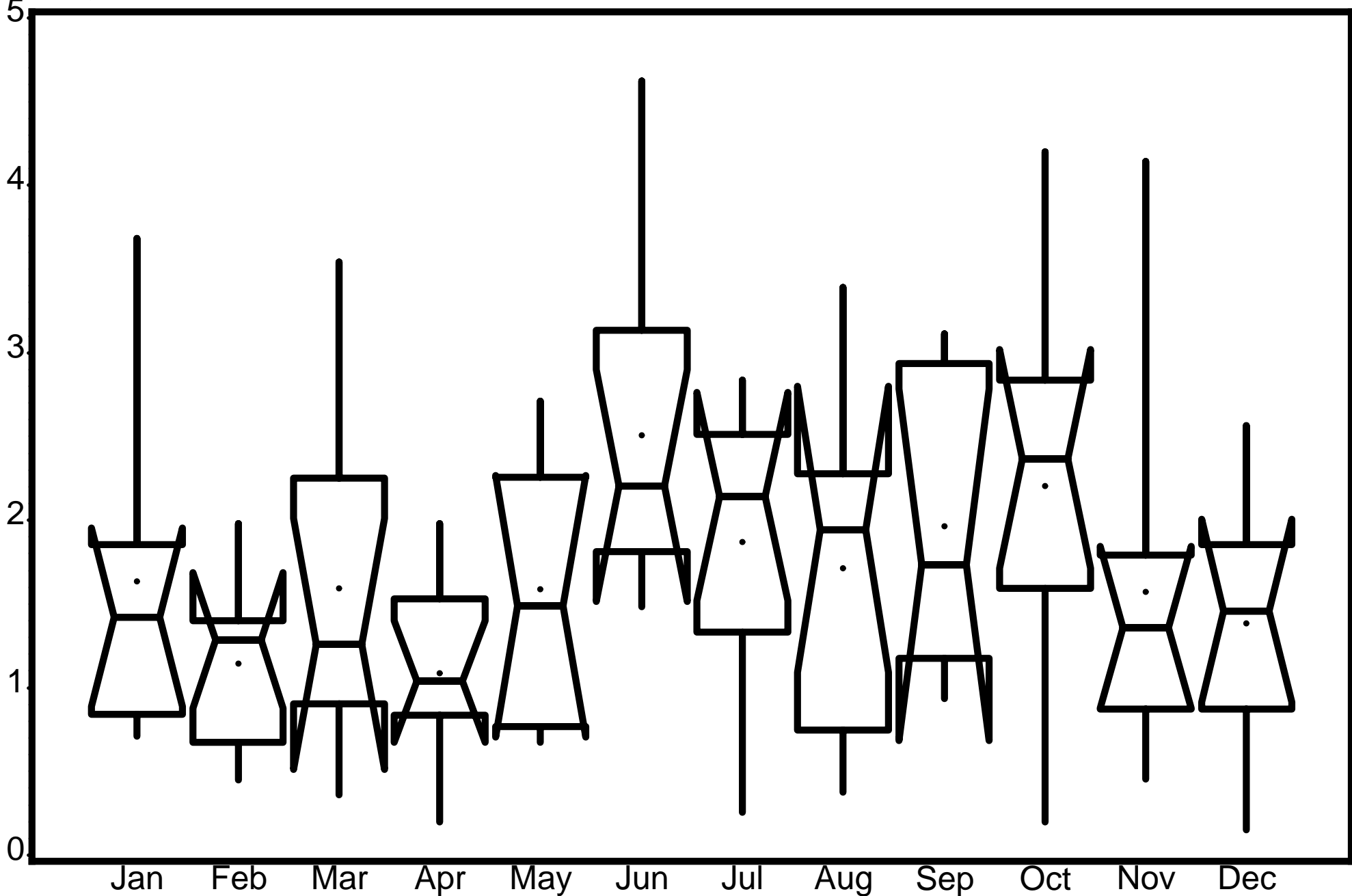
Adjusted
Turb
(NTU)



Matlacha Pass Trends Appendix - Display 1233

Seasonal Univariate Statistics for Surface Turbidity in Matlacha Pass

Turb
(NTU)



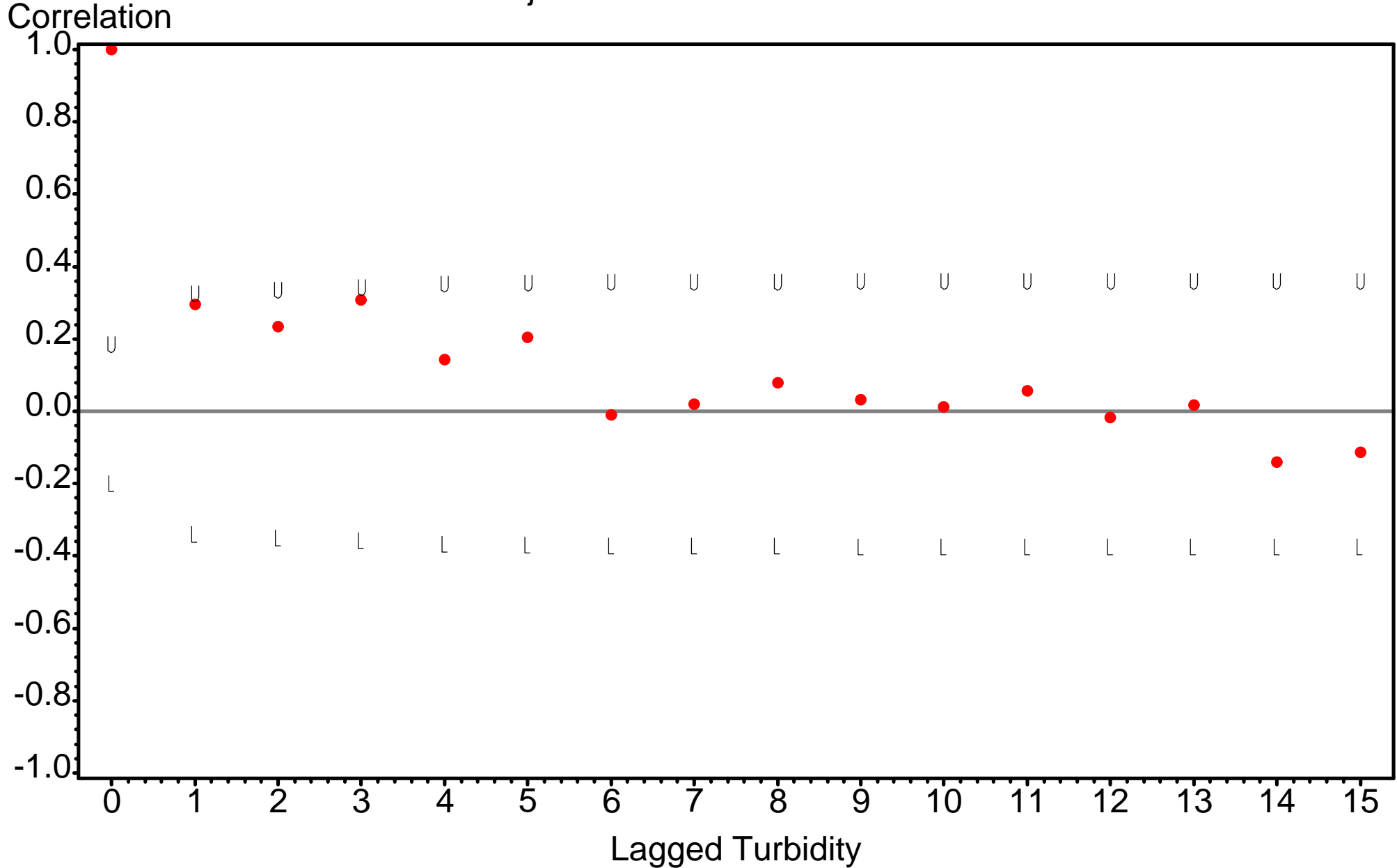
Matlacha Pass Trends Appendix - Display 1234

Autocorrelation Statistics for Surface Turbidity in Matlacha Pass

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.295	0.167	0.333	-0.333
2	0.235	0.171	0.343	-0.343
3	0.308	0.174	0.349	-0.349
4	0.144	0.179	0.359	-0.359
5	0.205	0.180	0.361	-0.361
6	-0.009	0.183	0.365	-0.365
7	0.019	0.183	0.365	-0.365
8	0.080	0.183	0.365	-0.365
9	0.032	0.183	0.366	-0.366
10	0.013	0.183	0.366	-0.366
11	0.057	0.183	0.366	-0.366
12	-0.016	0.183	0.366	-0.366
13	0.017	0.183	0.366	-0.366
14	-0.141	0.183	0.366	-0.366
15	-0.114	0.184	0.368	-0.368

Matlacha Pass Trends Appendix - Display 1235

Correlogram for Surface Turbidity in Matlacha Pass Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Matlacha Pass Trends Appendix - Display 1236
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Matlacha Pass
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.217	.001	.001	0.115

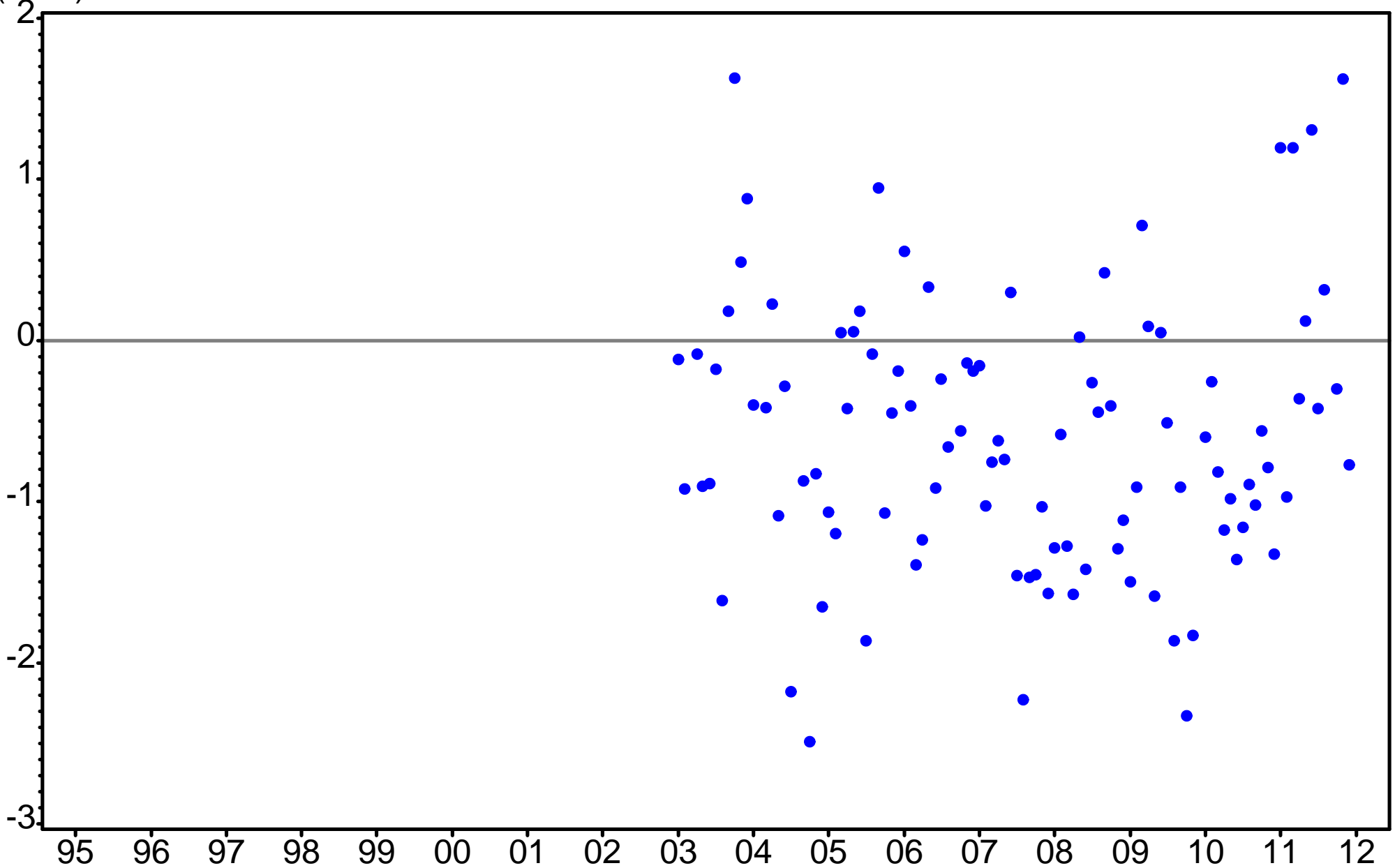
Matlacha Pass Trends Appendix - Display 1237
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Matlacha Pass
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.25195	.00183809	0.081307	0.118

Matlacha Pass Trends Appendix - Display 1238

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Matlacha Pass

Adjusted
(NTU)



Zero Reference Line Shown

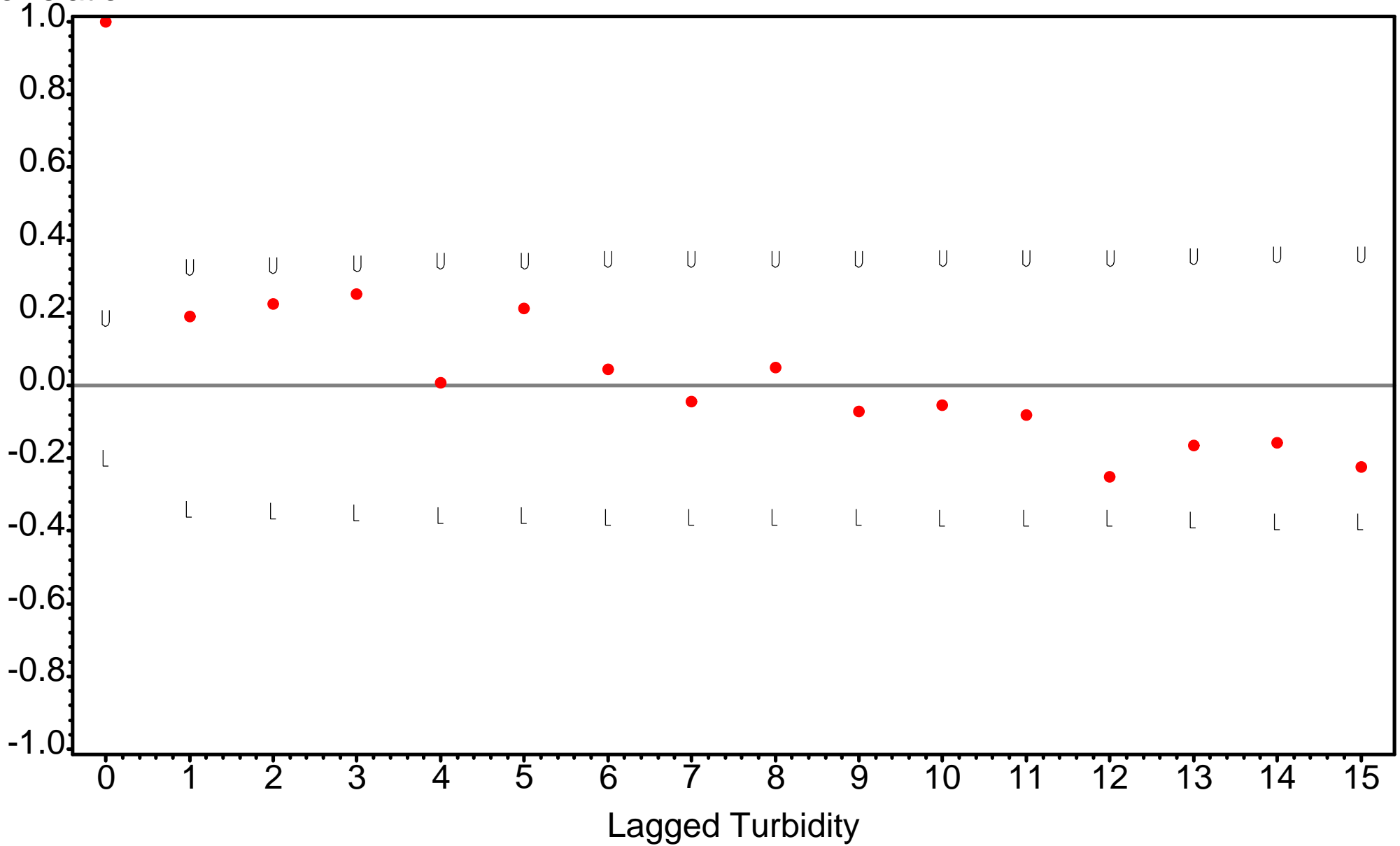
Matlacha Pass Trends Appendix - Display 1239
Autocorrelation Statistics for Surface Turbidity in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.190	0.167	0.333	-0.333
2	0.225	0.169	0.337	-0.337
3	0.252	0.171	0.343	-0.343
4	0.008	0.175	0.350	-0.350
5	0.211	0.175	0.350	-0.350
6	0.044	0.177	0.354	-0.354
7	-0.045	0.177	0.355	-0.355
8	0.049	0.177	0.355	-0.355
9	-0.071	0.178	0.355	-0.355
10	-0.054	0.178	0.356	-0.356
11	-0.082	0.178	0.356	-0.356
12	-0.252	0.178	0.357	-0.357
13	-0.164	0.182	0.363	-0.363
14	-0.158	0.183	0.366	-0.366
15	-0.224	0.184	0.368	-0.368

Matlacha Pass Trends Appendix - Display 1240

Correlogram for Surface Turbidity in Matlacha Pass
Adjusted for Seasonal Median and Detrended

Correlation

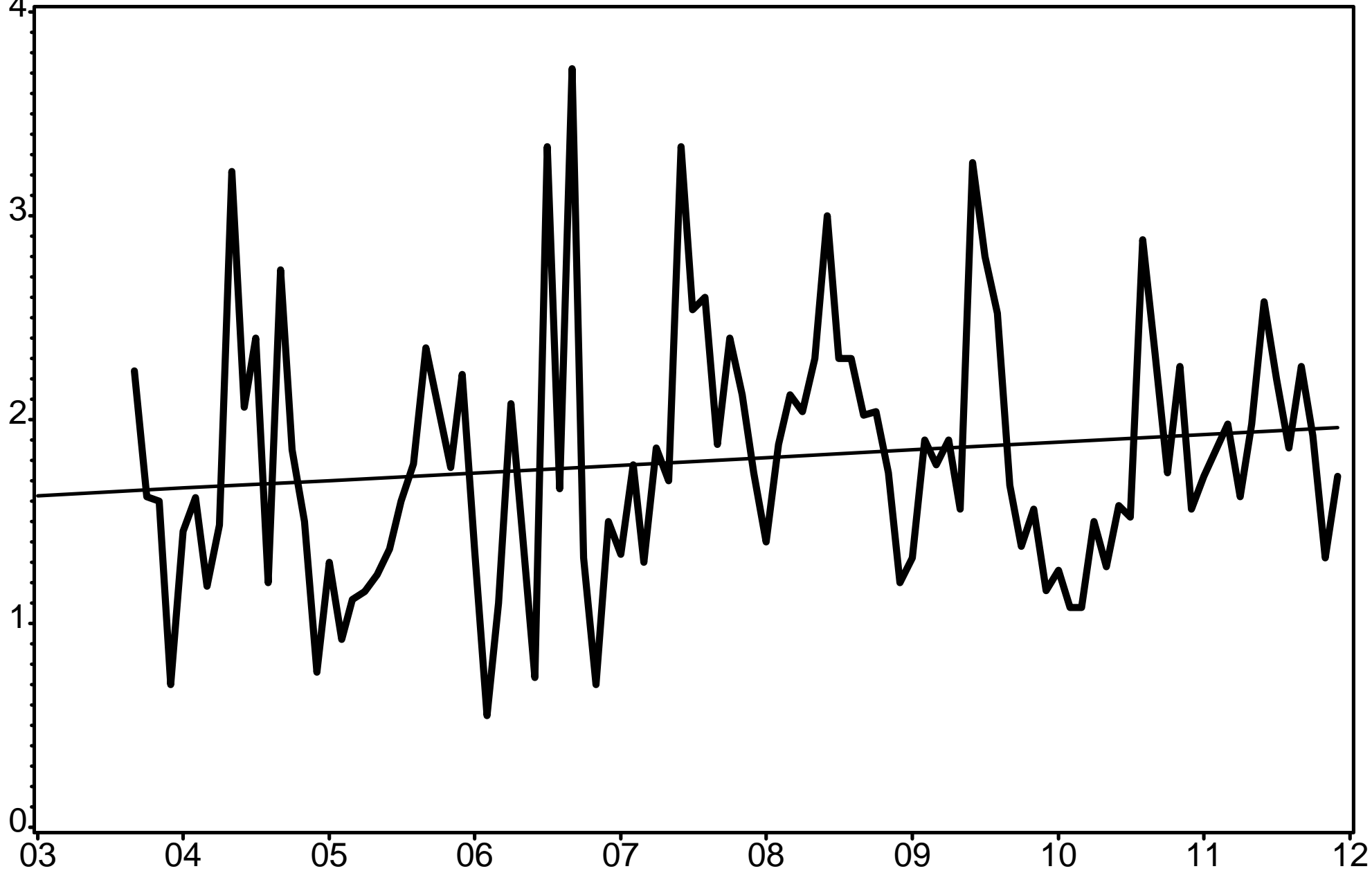


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1241

Monthly Data Time Series
for Surface BOD 5-Day in Pine Island Sound
Not Adjusted for Seasonal Medians

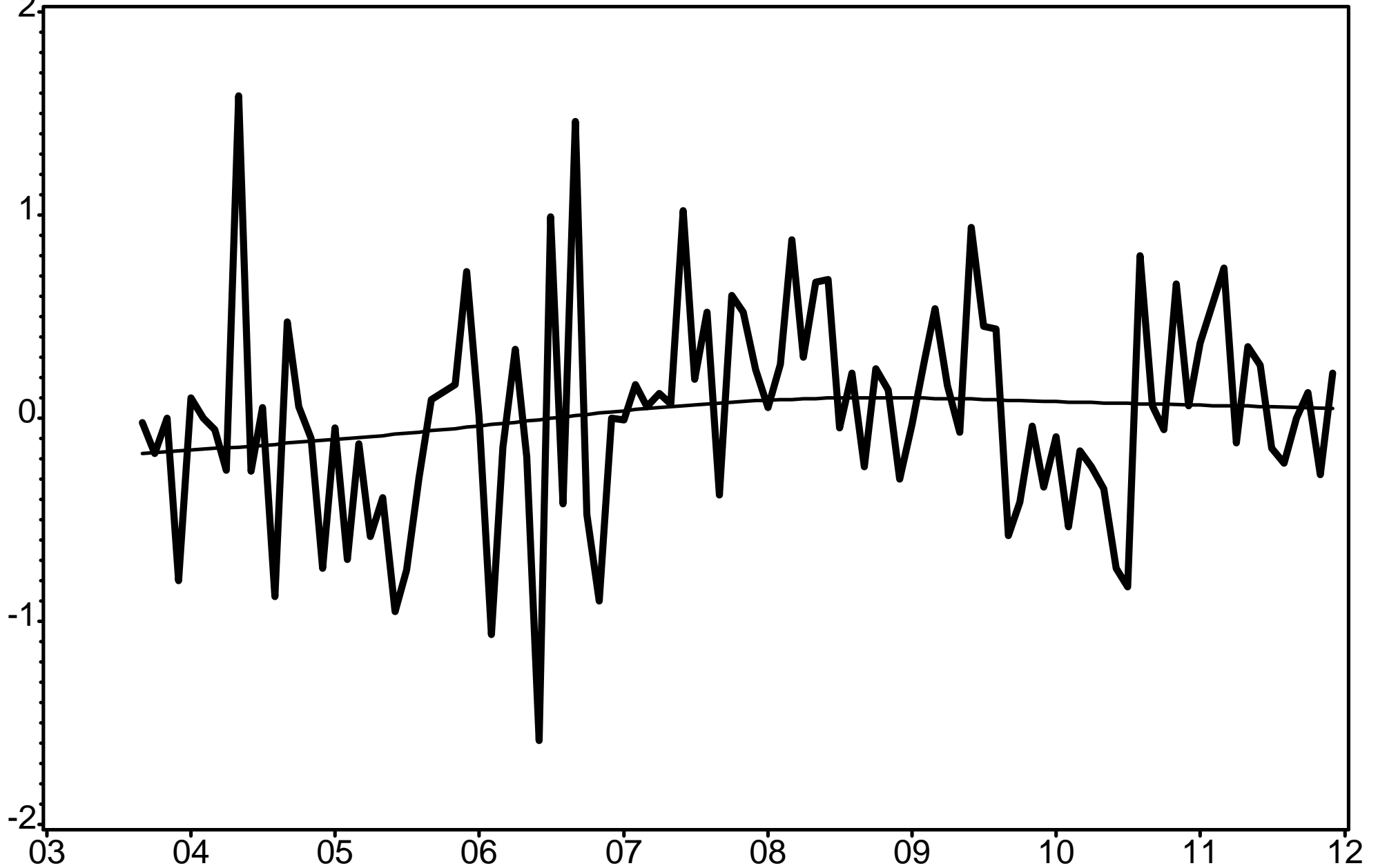
BOD_mgl
(mg/l)



Pine Island Sound Trends Appendix - Display 1242

Monthly Data Time Series
for Surface BOD 5-Day in Pine Island Sound
Adjusted for Seasonal Medians

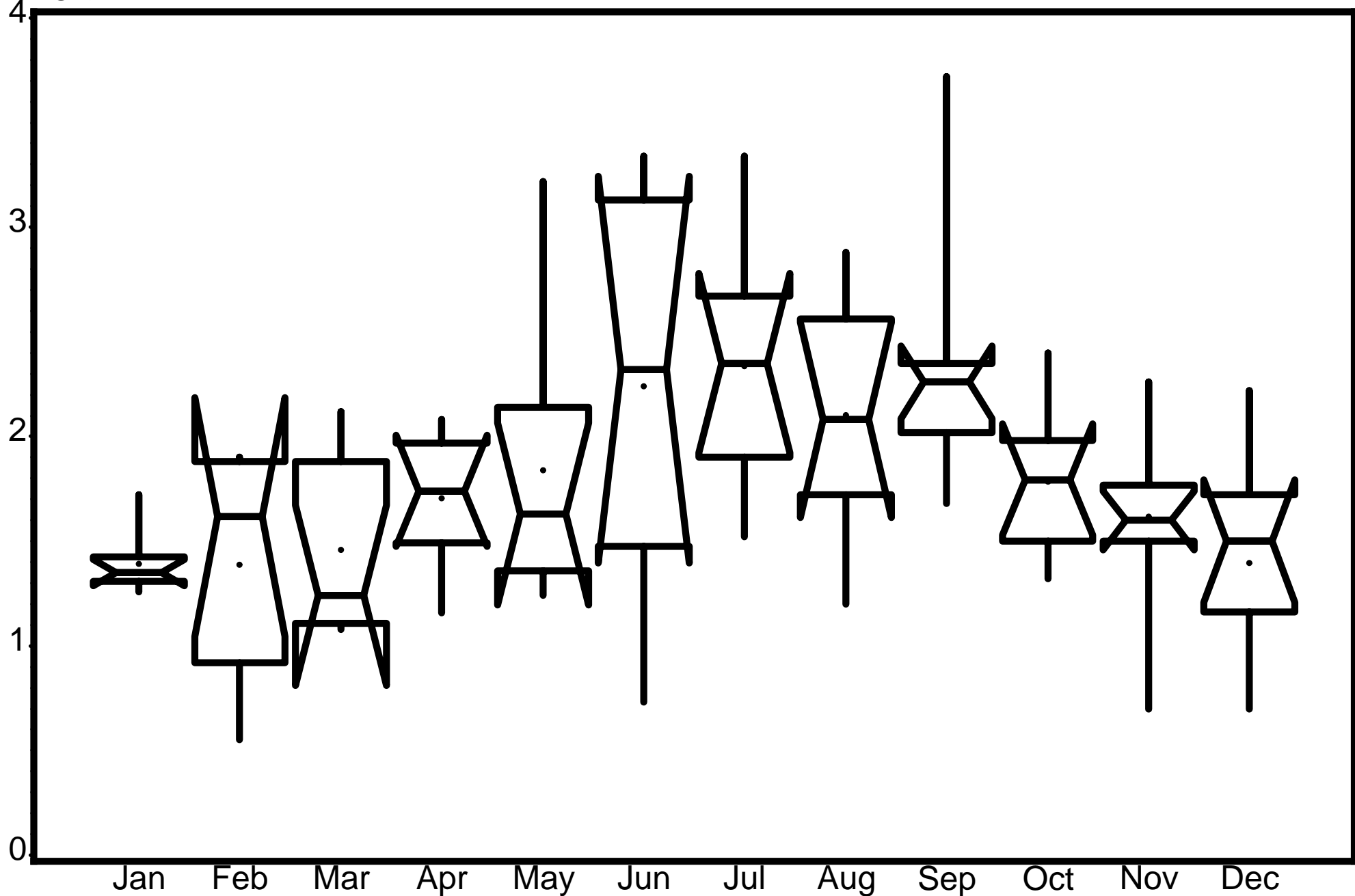
Adjusted
BOD_mgl
(mg/l)



Pine Island Sound Trends Appendix - Display 1243

Seasonal Univariate Statistics
for Surface BOD 5-Day in Pine Island Sound

BOD_mgl
(mg/l)

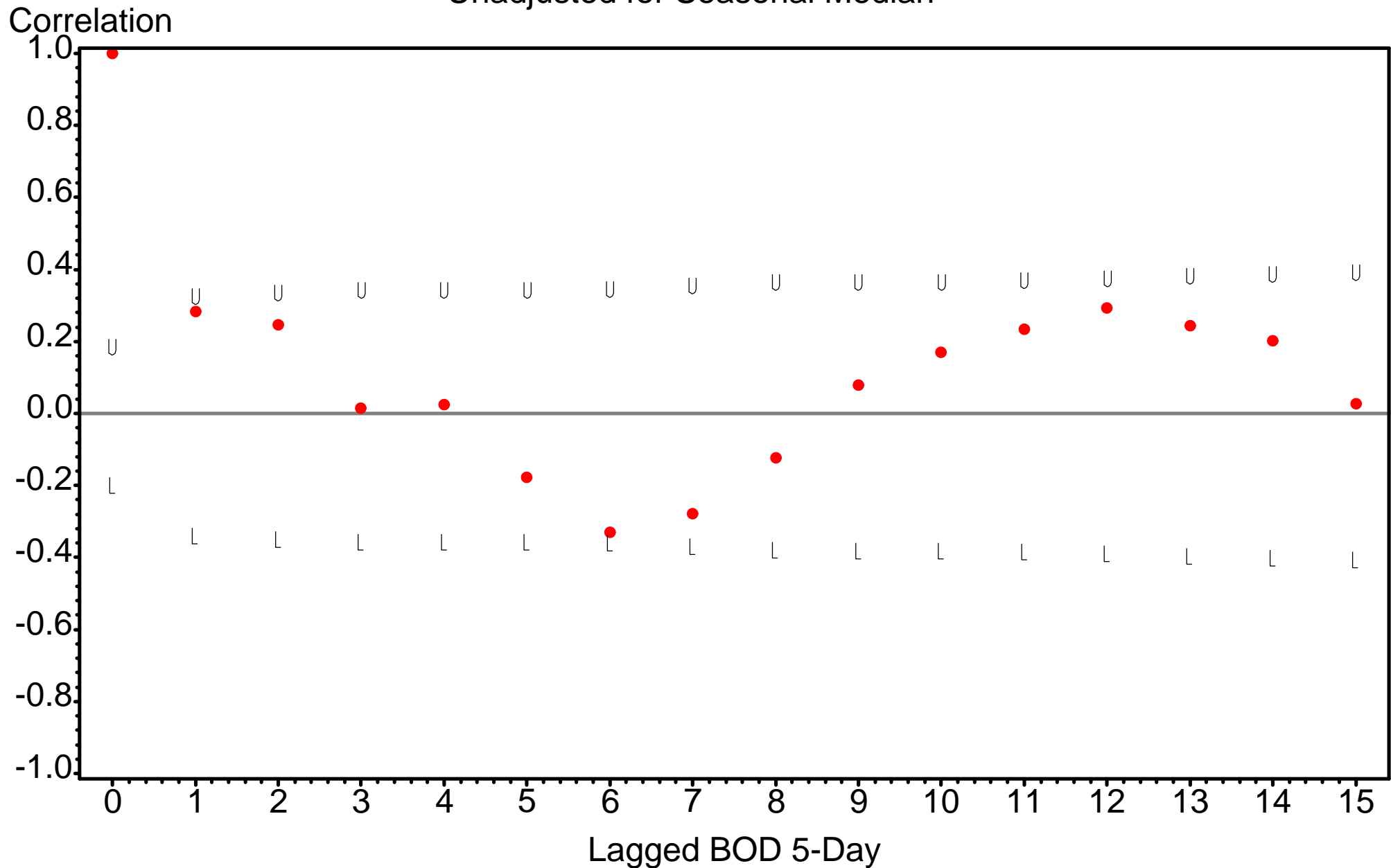


Pine Island Sound Trends Appendix - Display 1244
Autocorrelation Statistics for Surface BOD 5-Day in Pine Island Sound

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.284	0.167	0.333	-0.333
2	0.247	0.171	0.342	-0.342
3	0.015	0.174	0.349	-0.349
4	0.025	0.174	0.349	-0.349
5	-0.177	0.174	0.349	-0.349
6	-0.329	0.176	0.352	-0.352
7	-0.279	0.182	0.363	-0.363
8	-0.124	0.186	0.371	-0.371
9	0.079	0.186	0.373	-0.373
10	0.169	0.187	0.373	-0.373
11	0.233	0.188	0.376	-0.376
12	0.292	0.191	0.381	-0.381
13	0.243	0.195	0.390	-0.390
14	0.203	0.198	0.395	-0.395
15	0.026	0.199	0.399	-0.399

Pine Island Sound Trends Appendix - Display 1245

Correlogram for Surface BOD 5-Day in Pine Island Sound
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1246
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.117	0.089	0.089	0.043

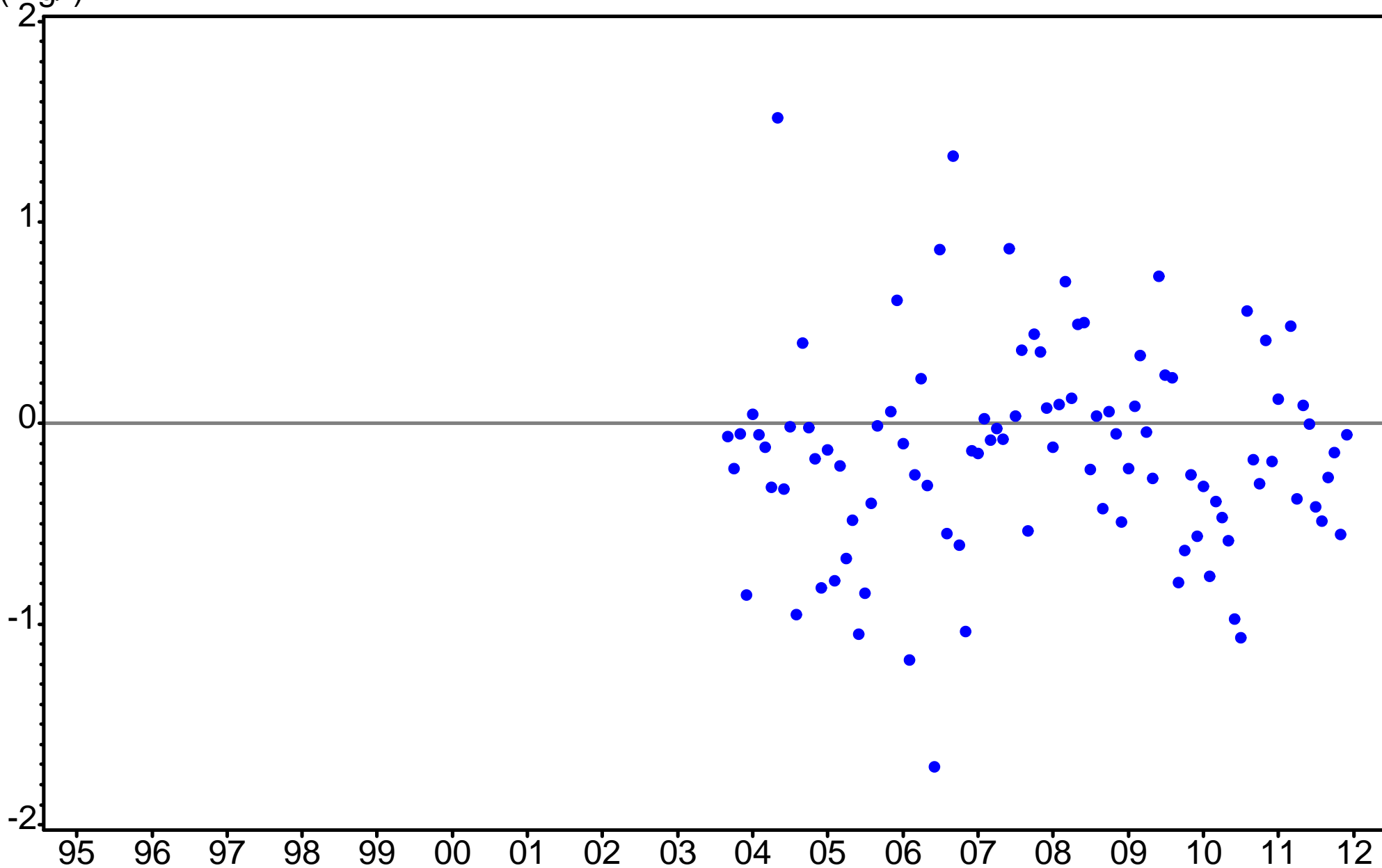
Pine Island Sound Trends Appendix - Display 1247
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.093484	0.27040	0.36497	0.028

Pine Island Sound Trends Appendix - Display 1248

Time Series Plot of Surface BOD 5-Day Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



Zero Reference Line Shown

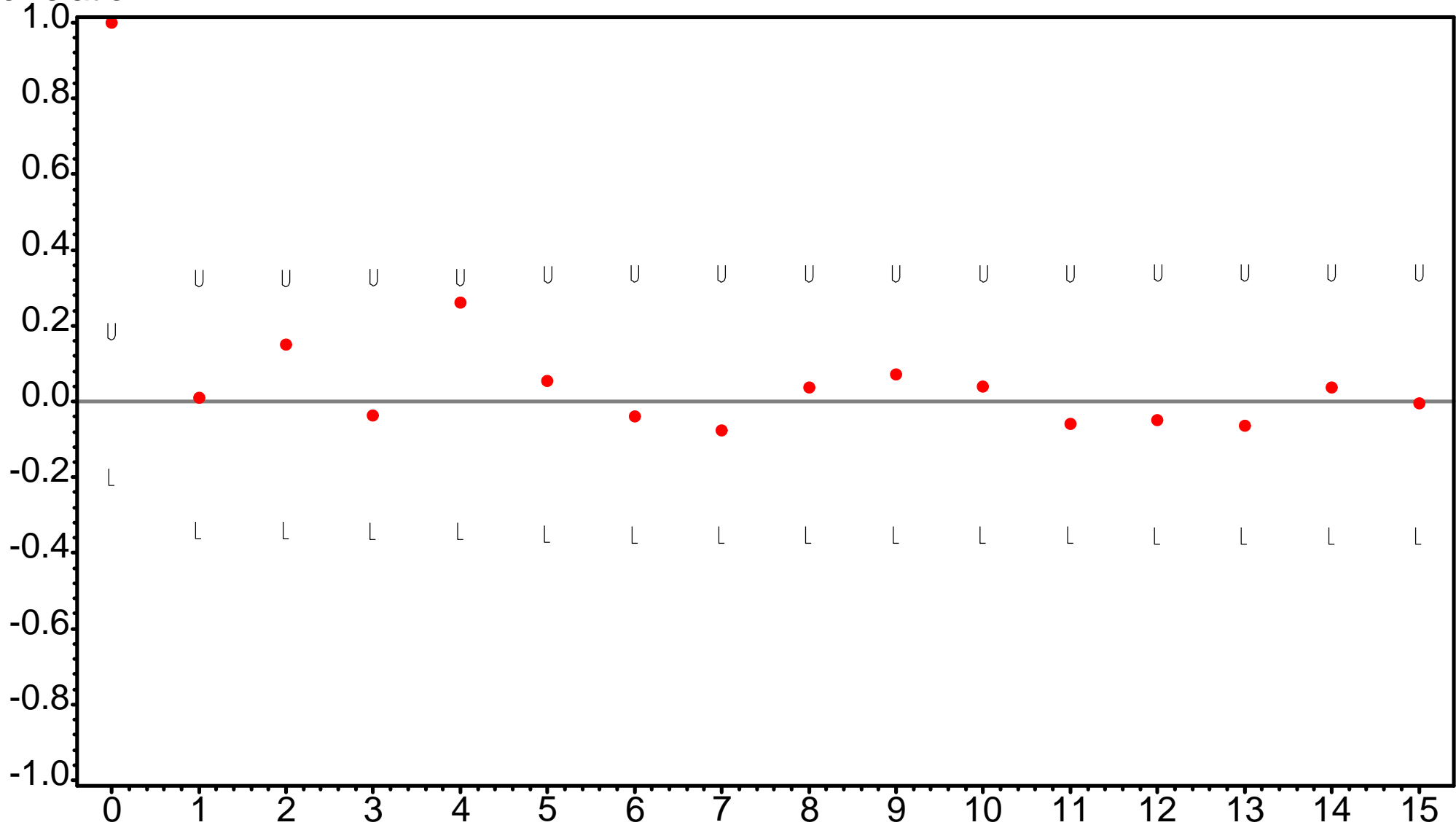
Pine Island Sound Trends Appendix - Display 1249
Autocorrelation Statistics for Surface BOD 5-Day in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.010	0.167	0.333	-0.333
2	0.151	0.167	0.333	-0.333
3	-0.037	0.168	0.336	-0.336
4	0.260	0.168	0.336	-0.336
5	0.054	0.172	0.343	-0.343
6	-0.039	0.172	0.344	-0.344
7	-0.076	0.172	0.344	-0.344
8	0.038	0.172	0.344	-0.344
9	0.072	0.172	0.345	-0.345
10	0.039	0.173	0.345	-0.345
11	-0.058	0.173	0.345	-0.345
12	-0.048	0.173	0.346	-0.346
13	-0.065	0.173	0.346	-0.346
14	0.036	0.173	0.346	-0.346
15	-0.005	0.173	0.347	-0.347

Pine Island Sound Trends Appendix - Display 1250

Correlogram for Surface BOD 5-Day in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation



Lagged BOD 5-Day

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

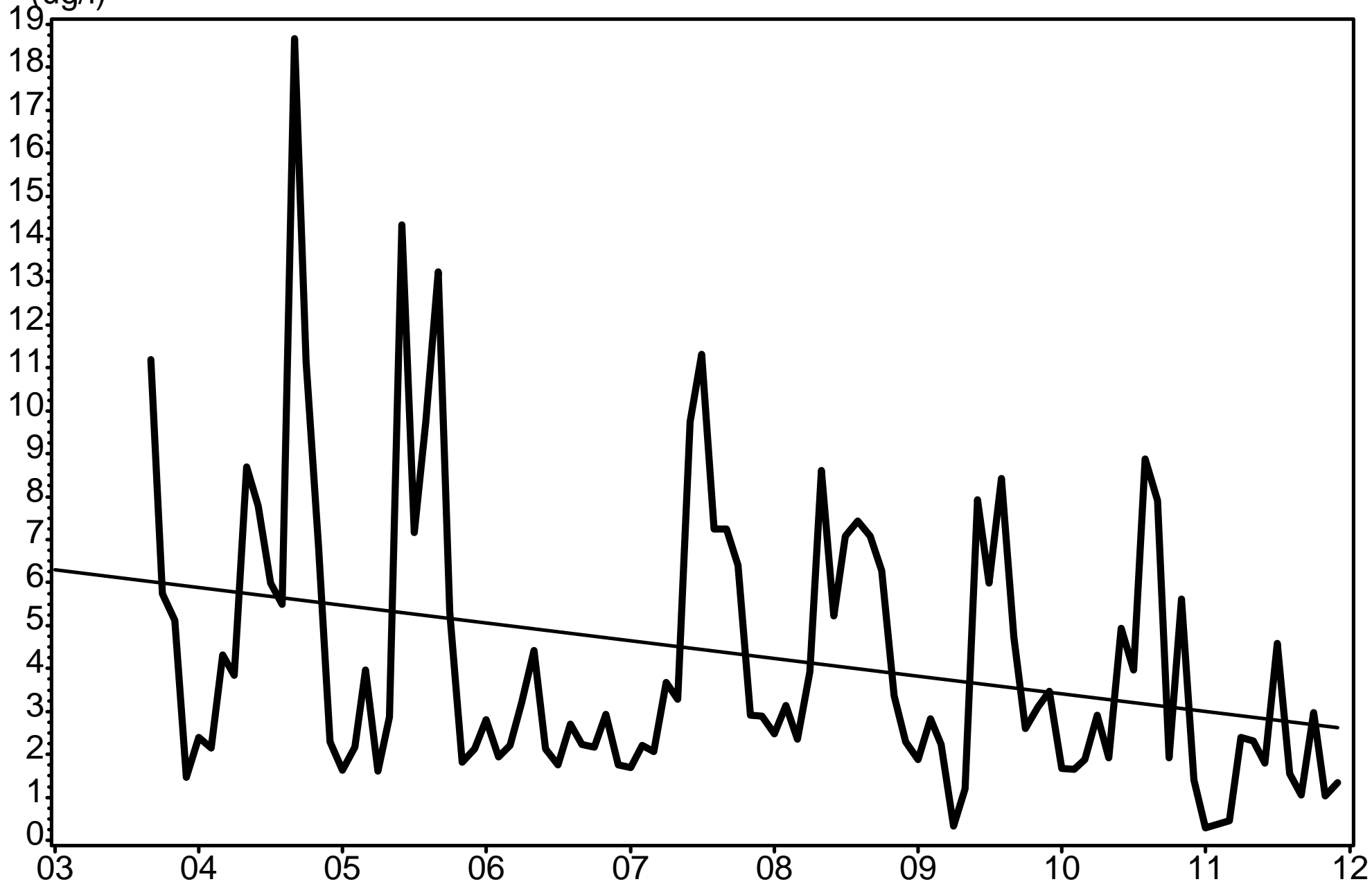
Pine Island Sound Trends Appendix - Display 1251

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Pine Island Sound

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



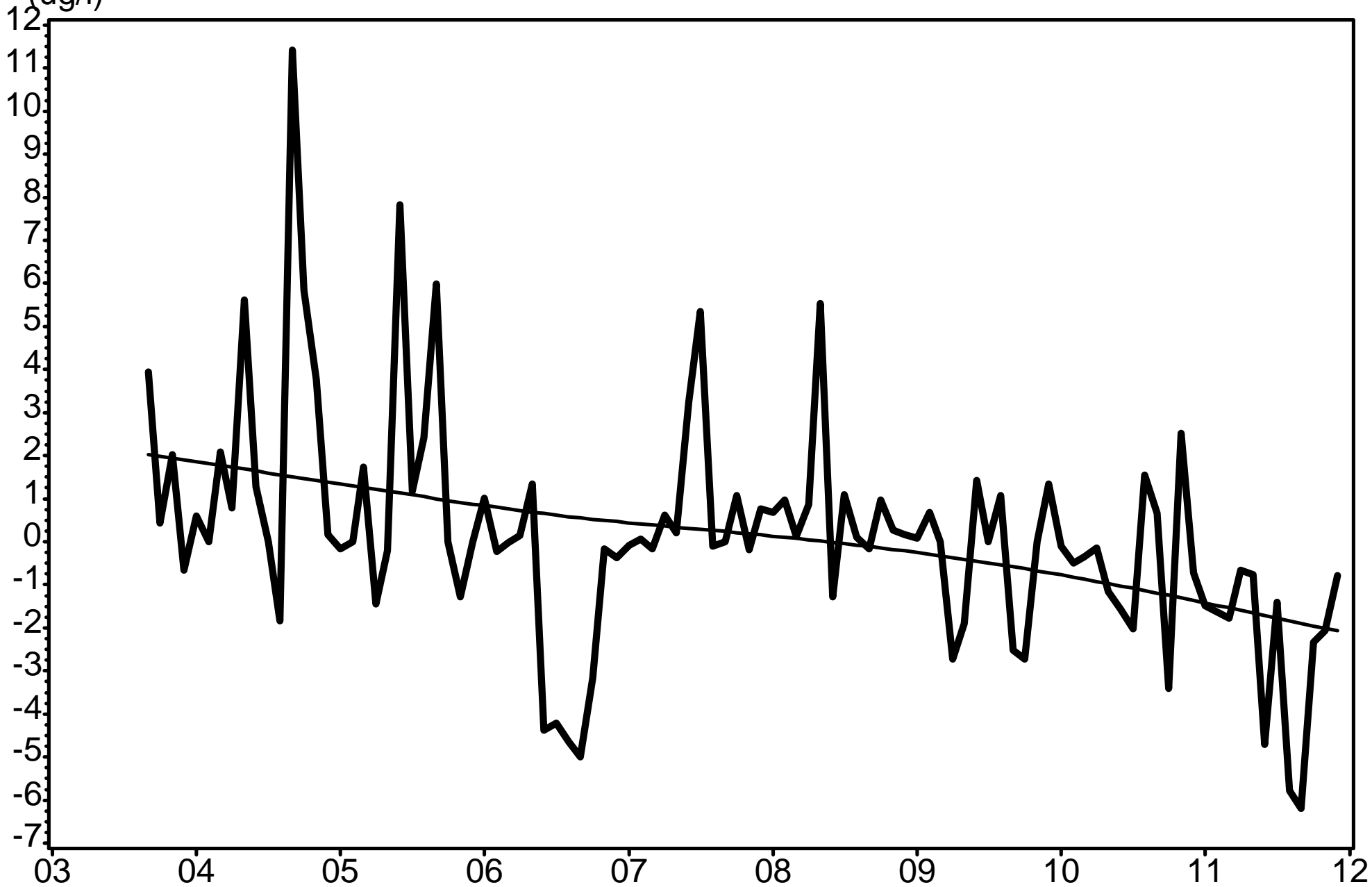
Pine Island Sound Trends Appendix - Display 1252

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

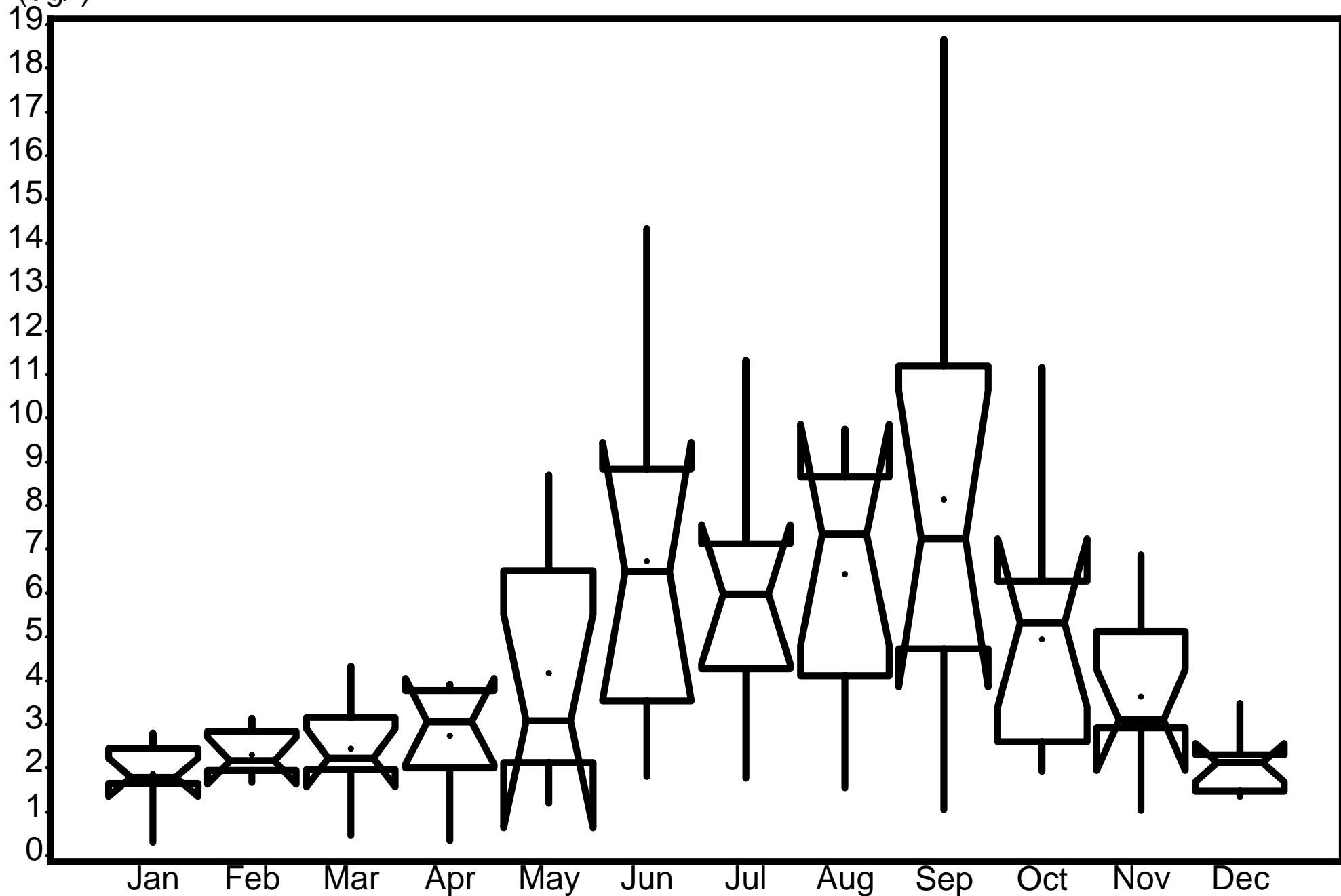


Pine Island Sound Trends Appendix - Display 1253

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Pine Island Sound

CHLAC_ugl
(ug/l)



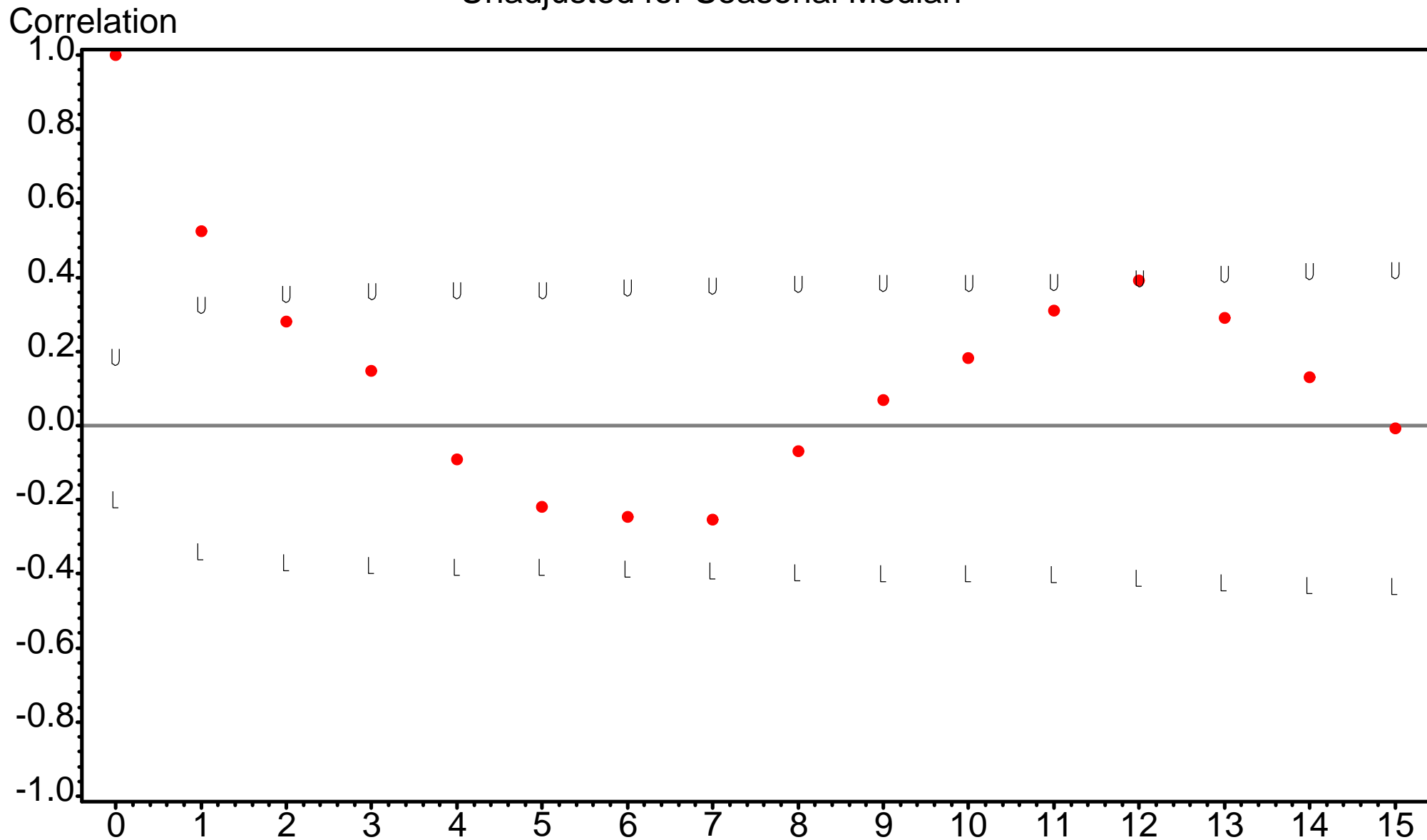
Pine Island Sound Trends Appendix - Display 1254
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Pine Island Sound

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.524	0.167	0.333	-0.333
2	0.280	0.181	0.363	-0.363
3	0.148	0.185	0.370	-0.370
4	-0.092	0.186	0.373	-0.373
5	-0.218	0.187	0.373	-0.373
6	-0.245	0.189	0.378	-0.378
7	-0.254	0.192	0.384	-0.384
8	-0.069	0.195	0.390	-0.390
9	0.070	0.195	0.391	-0.391
10	0.182	0.196	0.391	-0.391
11	0.311	0.197	0.394	-0.394
12	0.391	0.202	0.403	-0.403
13	0.291	0.208	0.417	-0.417
14	0.130	0.212	0.424	-0.424
15	-0.008	0.213	0.426	-0.426

Pine Island Sound Trends Appendix - Display 1255

Correlogram for Surface Chlorophyll-a (Corrected) in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1256
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Pine Island Sound
Unadjusted for Seasonal Medians

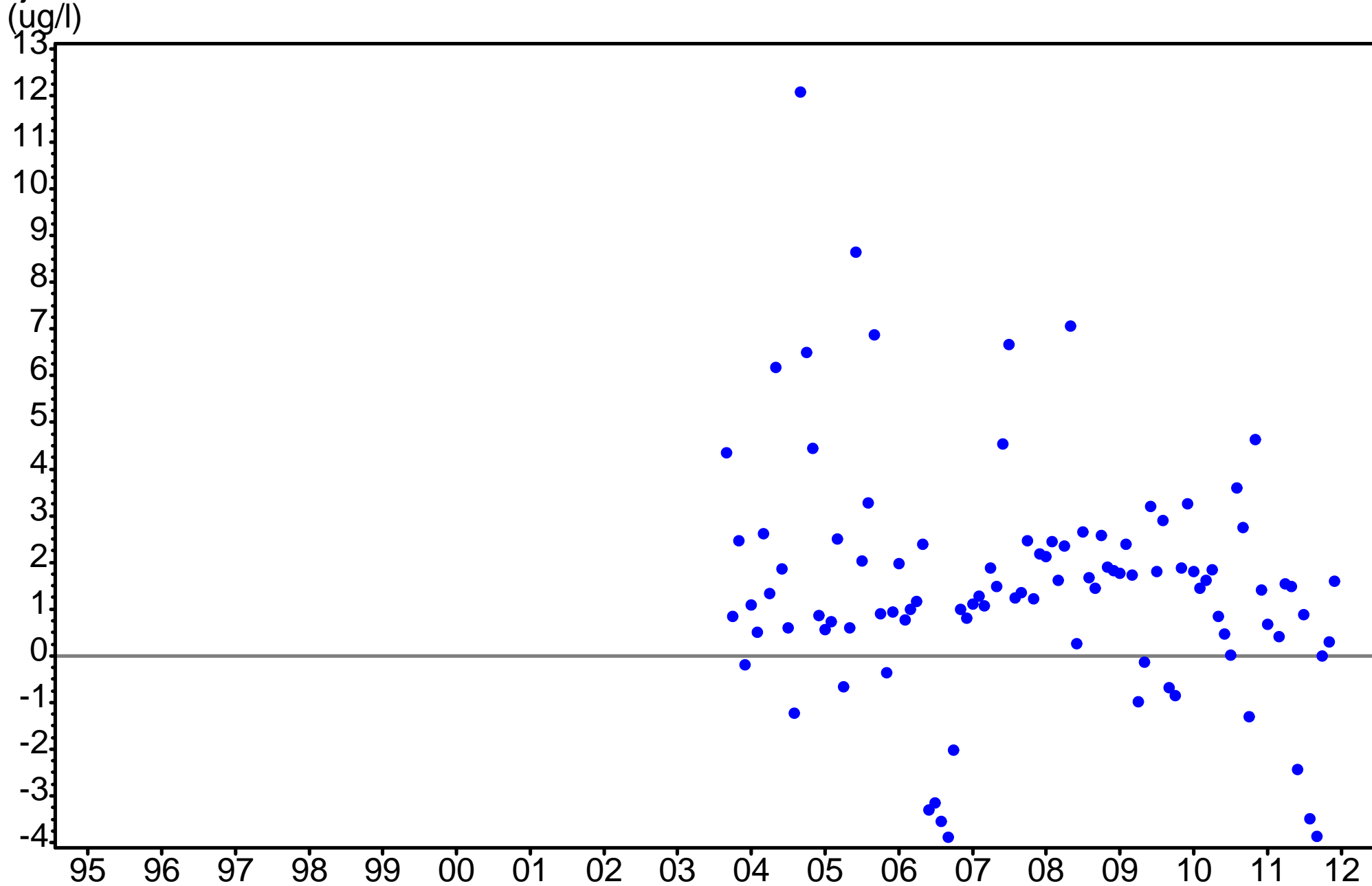
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19	.005	.005	-0.24

Pine Island Sound Trends Appendix - Display 1257
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.28809	.000474773	0.085895	-0.24

Pine Island Sound Trends Appendix - Display 1258

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Pine Island Sound



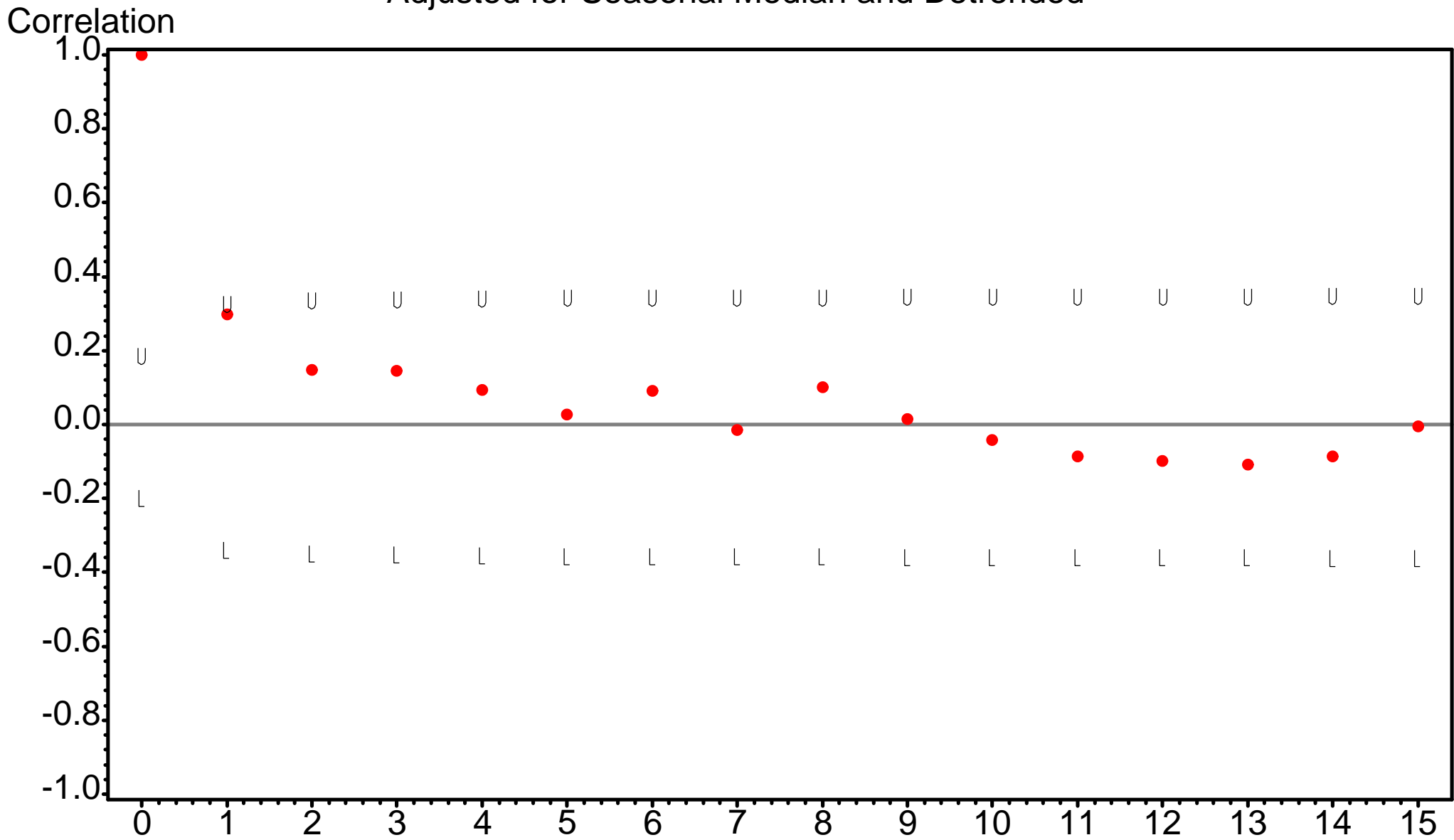
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1259
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.299	0.167	0.333	-0.333
2	0.148	0.172	0.343	-0.343
3	0.145	0.173	0.345	-0.345
4	0.094	0.174	0.348	-0.348
5	0.028	0.174	0.349	-0.349
6	0.092	0.174	0.349	-0.349
7	-0.015	0.175	0.350	-0.350
8	0.102	0.175	0.350	-0.350
9	0.014	0.175	0.351	-0.351
10	-0.041	0.175	0.351	-0.351
11	-0.086	0.175	0.351	-0.351
12	-0.098	0.176	0.352	-0.352
13	-0.109	0.176	0.353	-0.353
14	-0.086	0.177	0.354	-0.354
15	-0.004	0.177	0.355	-0.355

Pine Island Sound Trends Appendix - Display 1260

Correlogram for Surface Chlorophyll-a (Corrected) in Pine Island Sound Adjusted for Seasonal Median and Detrended



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

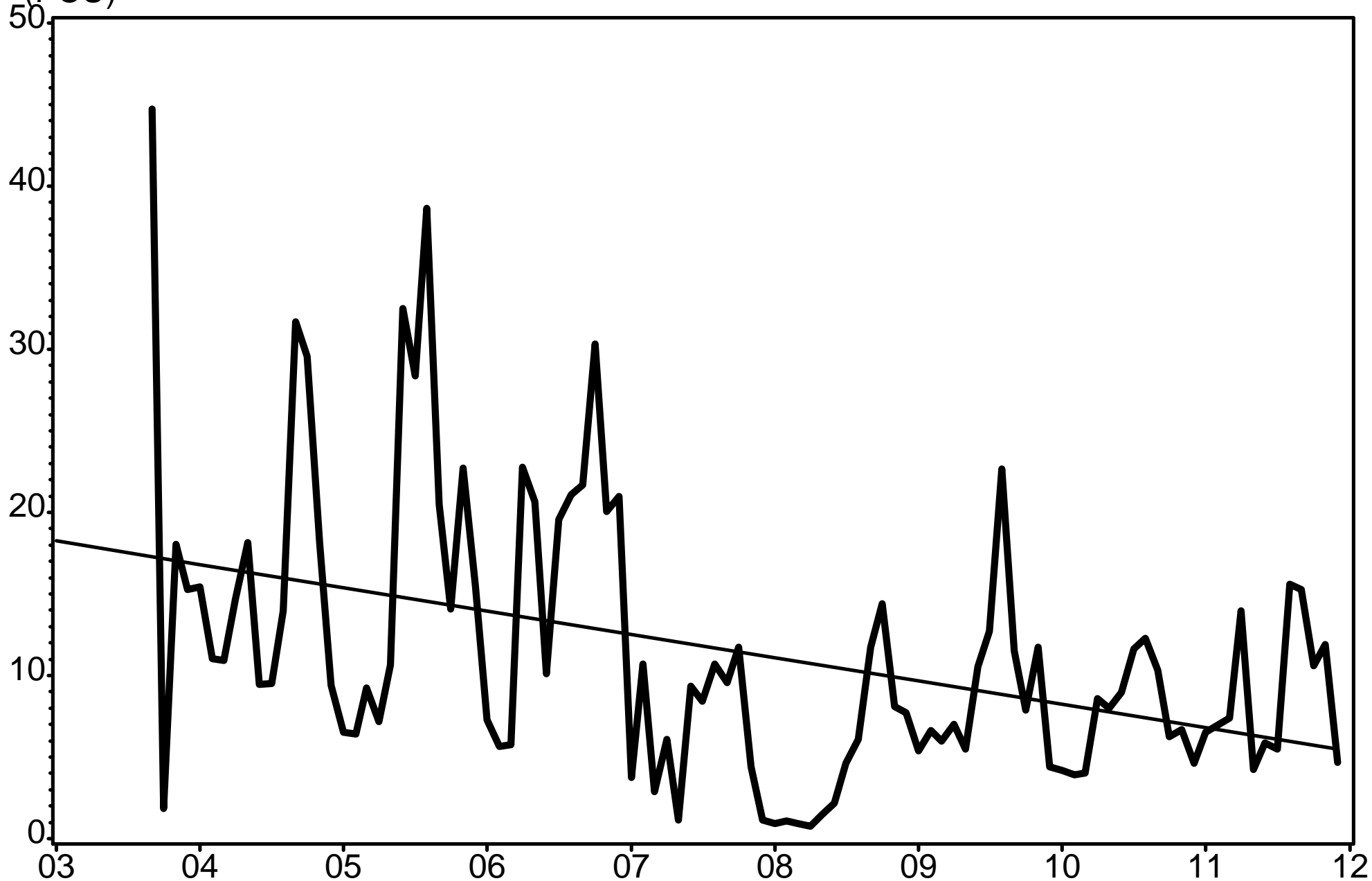
Pine Island Sound Trends Appendix - Display 1261

Monthly Data Time Series

for Surface Color in Pine Island Sound

Not Adjusted for Seasonal Medians

COLOR
(PCU)



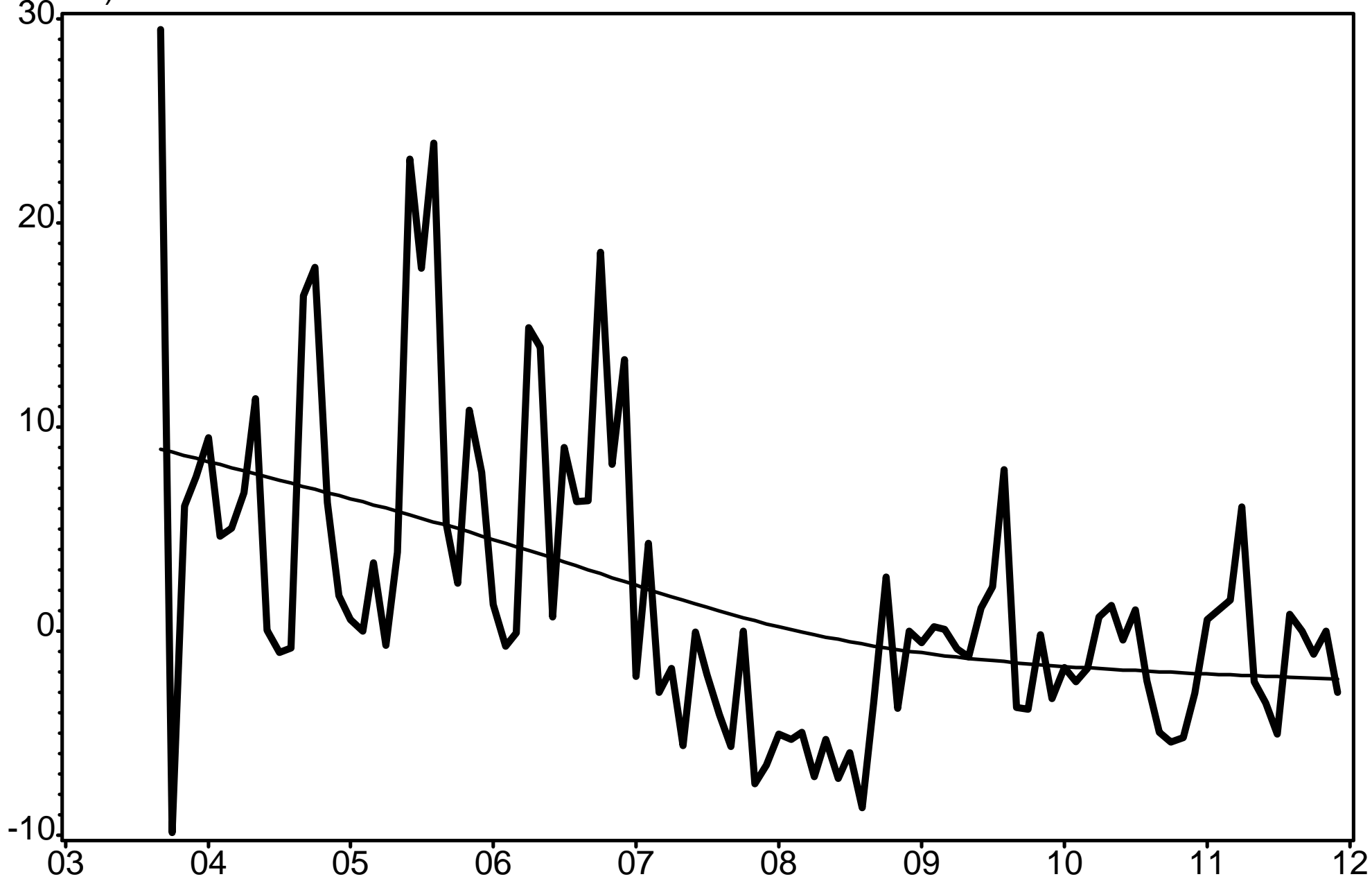
Pine Island Sound Trends Appendix - Display 1262

Monthly Data Time Series

for Surface Color in Pine Island Sound

Adjusted for Seasonal Medians

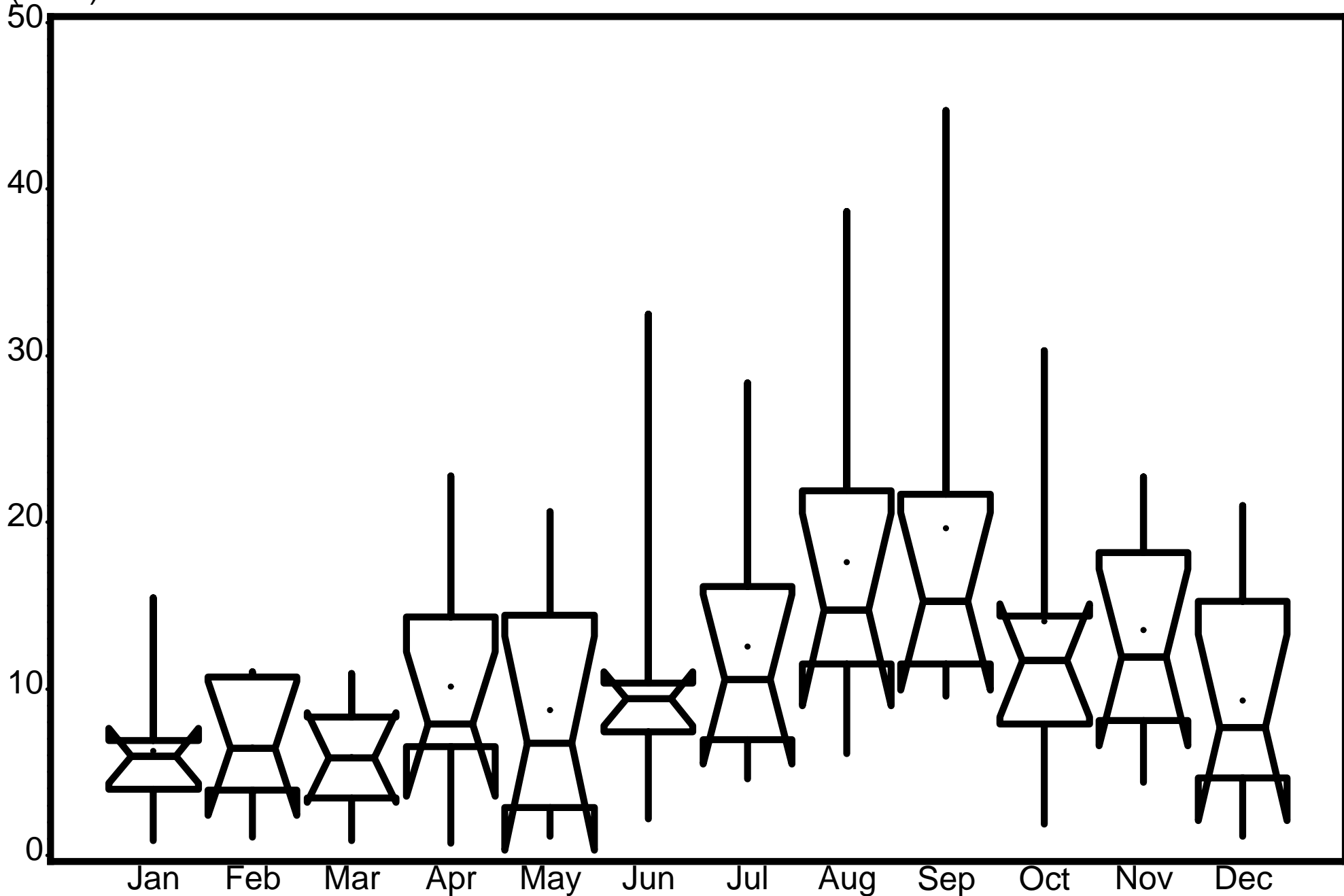
Adjusted
COLOR
(PCU)



Pine Island Sound Trends Appendix - Display 1263

Seasonal Univariate Statistics
for Surface Color in Pine Island Sound

COLOR
(PCU)

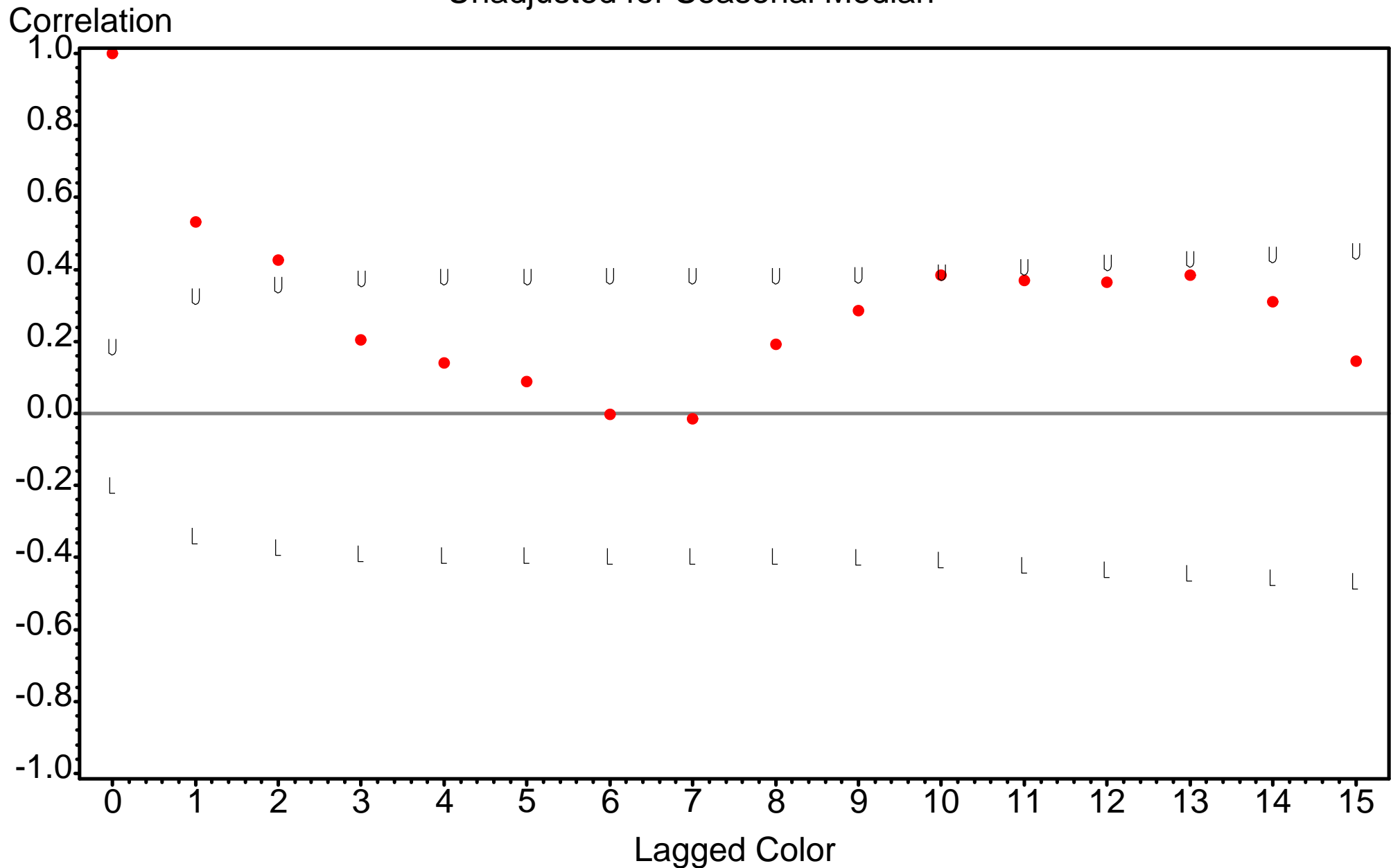


Pine Island Sound Trends Appendix - Display 1264
Autocorrelation Statistics for Surface Color in Pine Island Sound

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.533	0.167	0.333	-0.333
2	0.426	0.182	0.364	-0.364
3	0.204	0.191	0.382	-0.382
4	0.140	0.193	0.386	-0.386
5	0.088	0.194	0.387	-0.387
6	-0.003	0.194	0.388	-0.388
7	-0.014	0.194	0.388	-0.388
8	0.192	0.194	0.388	-0.388
9	0.286	0.196	0.392	-0.392
10	0.384	0.200	0.399	-0.399
11	0.370	0.206	0.413	-0.413
12	0.364	0.212	0.425	-0.425
13	0.383	0.218	0.436	-0.436
14	0.311	0.224	0.449	-0.449
15	0.145	0.228	0.457	-0.457

Pine Island Sound Trends Appendix - Display 1265

Correlogram for Surface Color in Pine Island Sound
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1266
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.229	.001	.001	-0.978

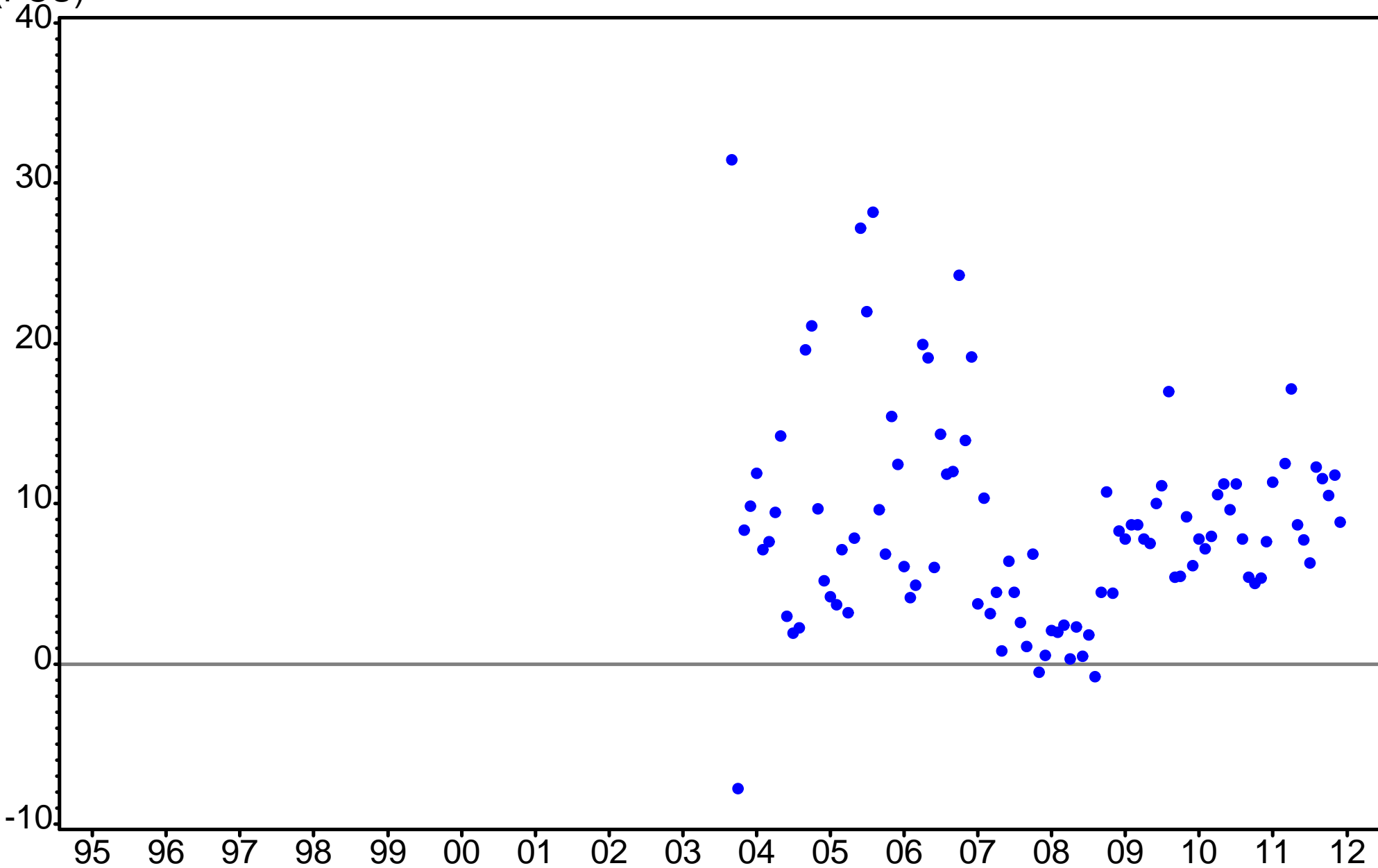
Pine Island Sound Trends Appendix - Display 1267
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.31302	.000146196	0.12784	-1.196

Pine Island Sound Trends Appendix - Display 1268

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(PCU)



Zero Reference Line Shown

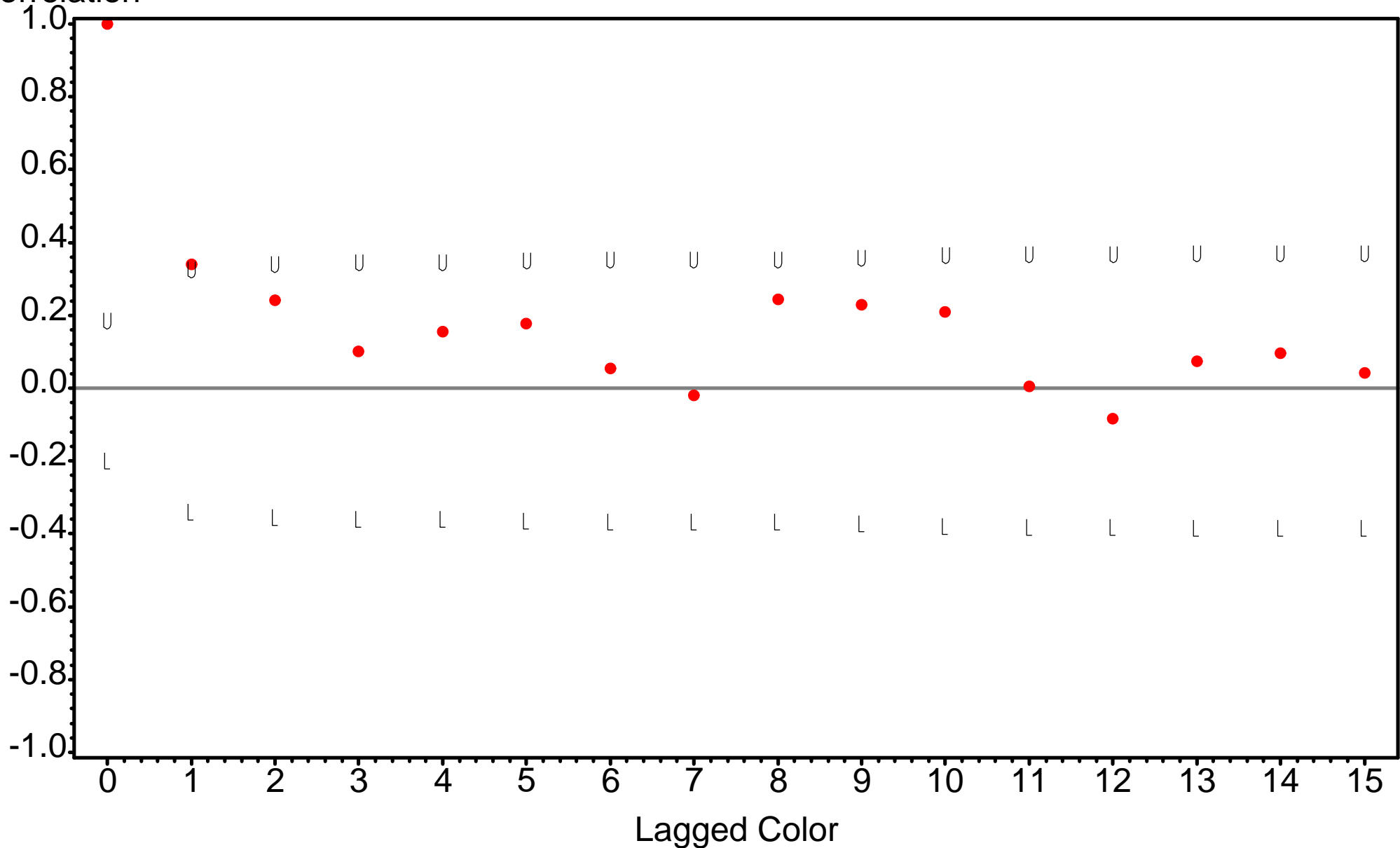
Pine Island Sound Trends Appendix - Display 1269
Autocorrelation Statistics for Surface Color in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.340	0.167	0.333	-0.333
2	0.242	0.173	0.346	-0.346
3	0.100	0.176	0.352	-0.352
4	0.156	0.177	0.353	-0.353
5	0.177	0.178	0.356	-0.356
6	0.055	0.180	0.359	-0.359
7	-0.020	0.180	0.359	-0.359
8	0.244	0.180	0.359	-0.359
9	0.230	0.183	0.365	-0.365
10	0.210	0.185	0.371	-0.371
11	0.006	0.188	0.375	-0.375
12	-0.083	0.188	0.375	-0.375
13	0.073	0.188	0.376	-0.376
14	0.097	0.188	0.376	-0.376
15	0.042	0.189	0.377	-0.377

Pine Island Sound Trends Appendix - Display 1270

Correlogram for Surface Color in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

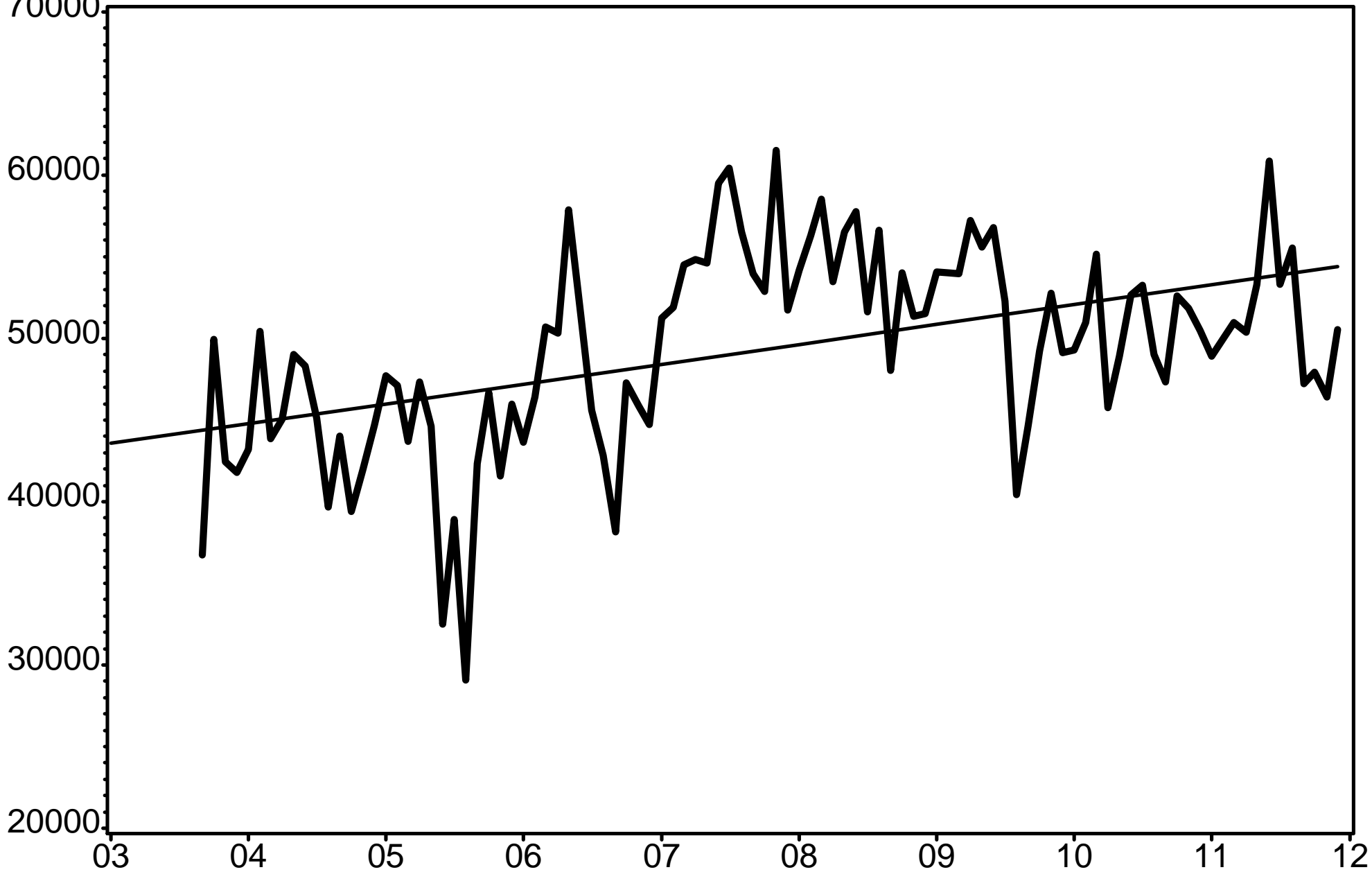
Pine Island Sound Trends Appendix - Display 1271

Monthly Data Time Series

for Surface Specific Conductance in Pine Island Sound

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



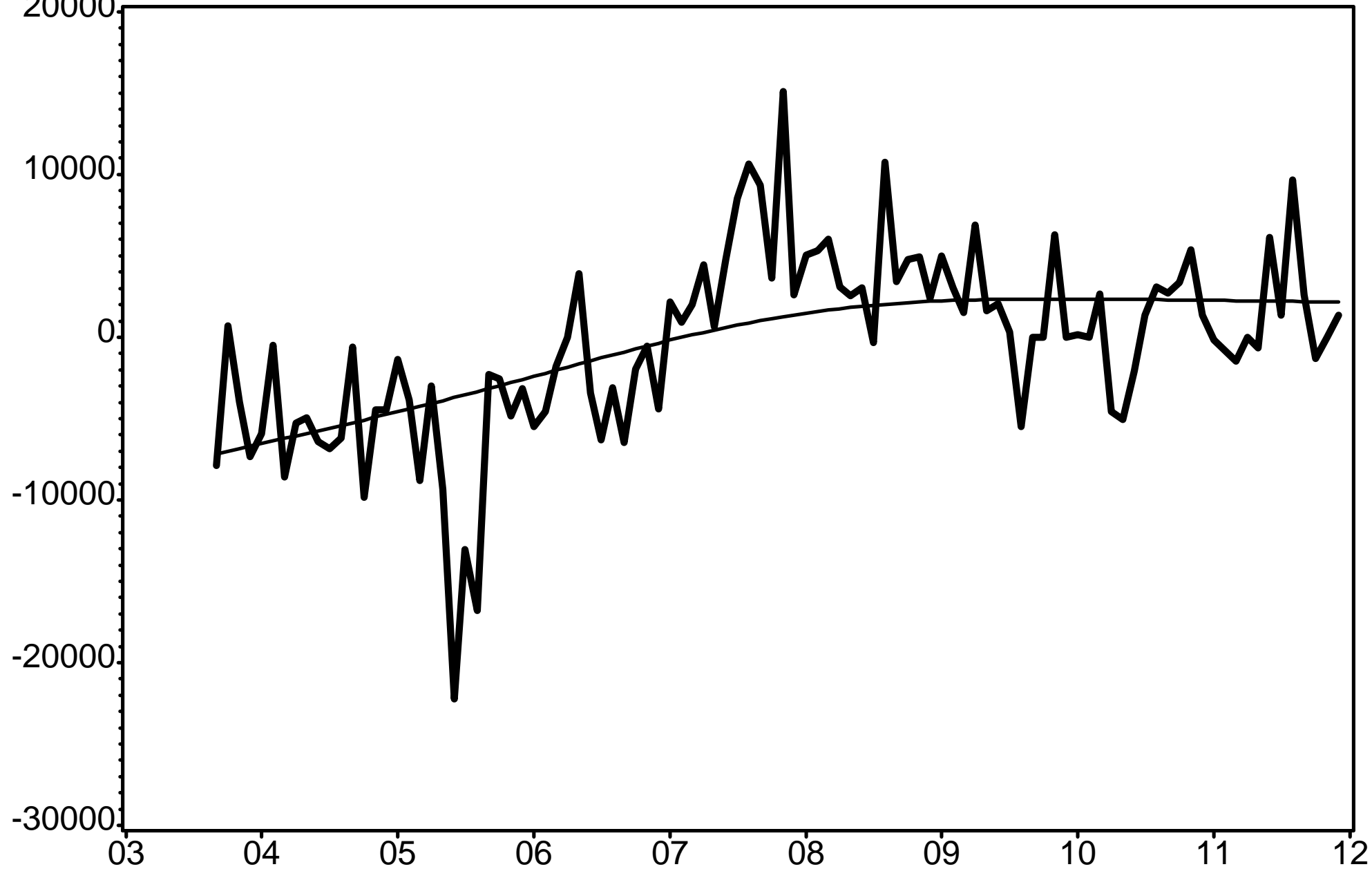
Pine Island Sound Trends Appendix - Display 1272

Monthly Data Time Series

for Surface Specific Conductance in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000

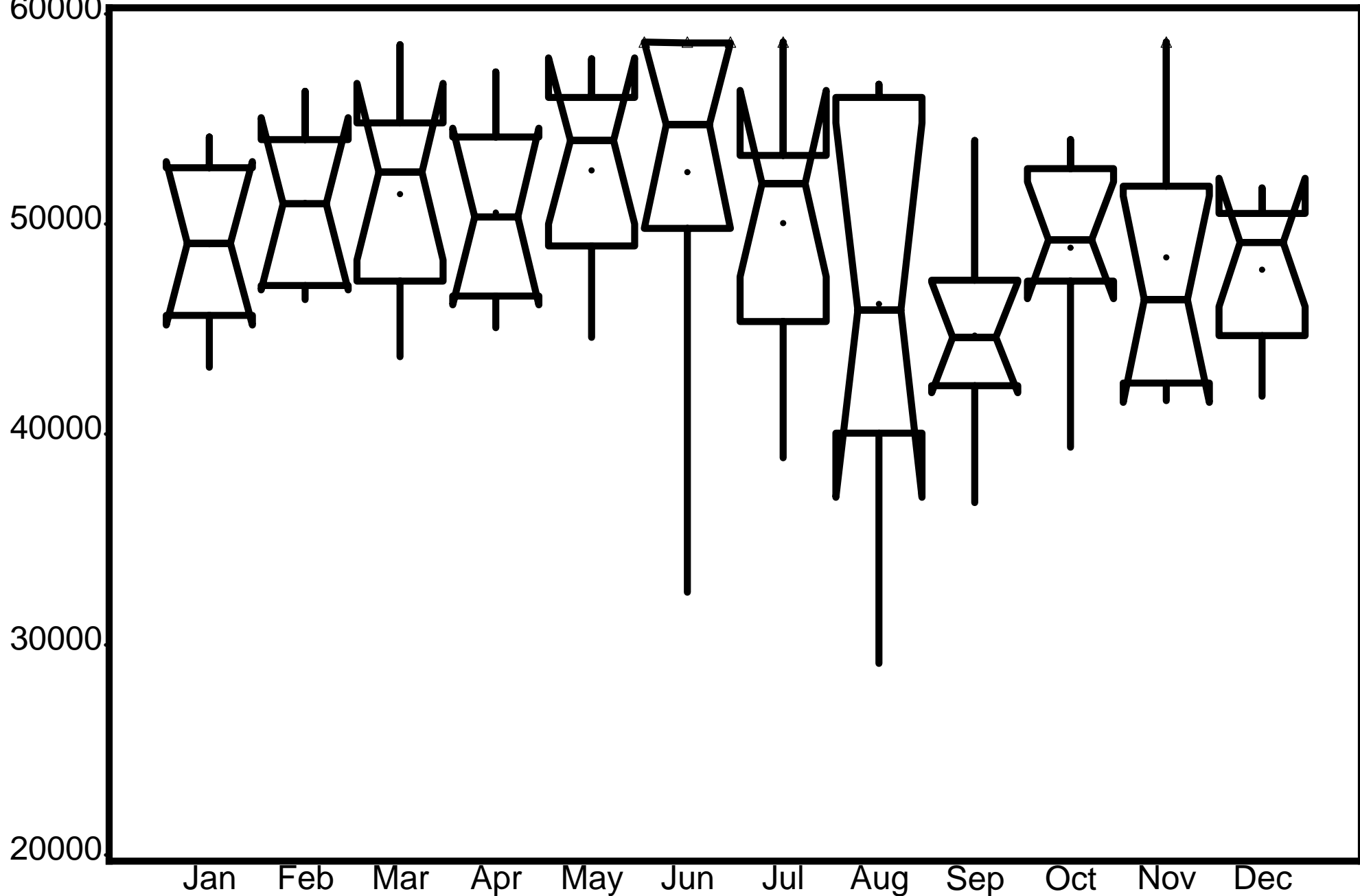


Pine Island Sound Trends Appendix - Display 1273

Seasonal Univariate Statistics

for Surface Specific Conductance in Pine Island Sound

COND
($\mu\text{S}/\text{cm}$)
60000

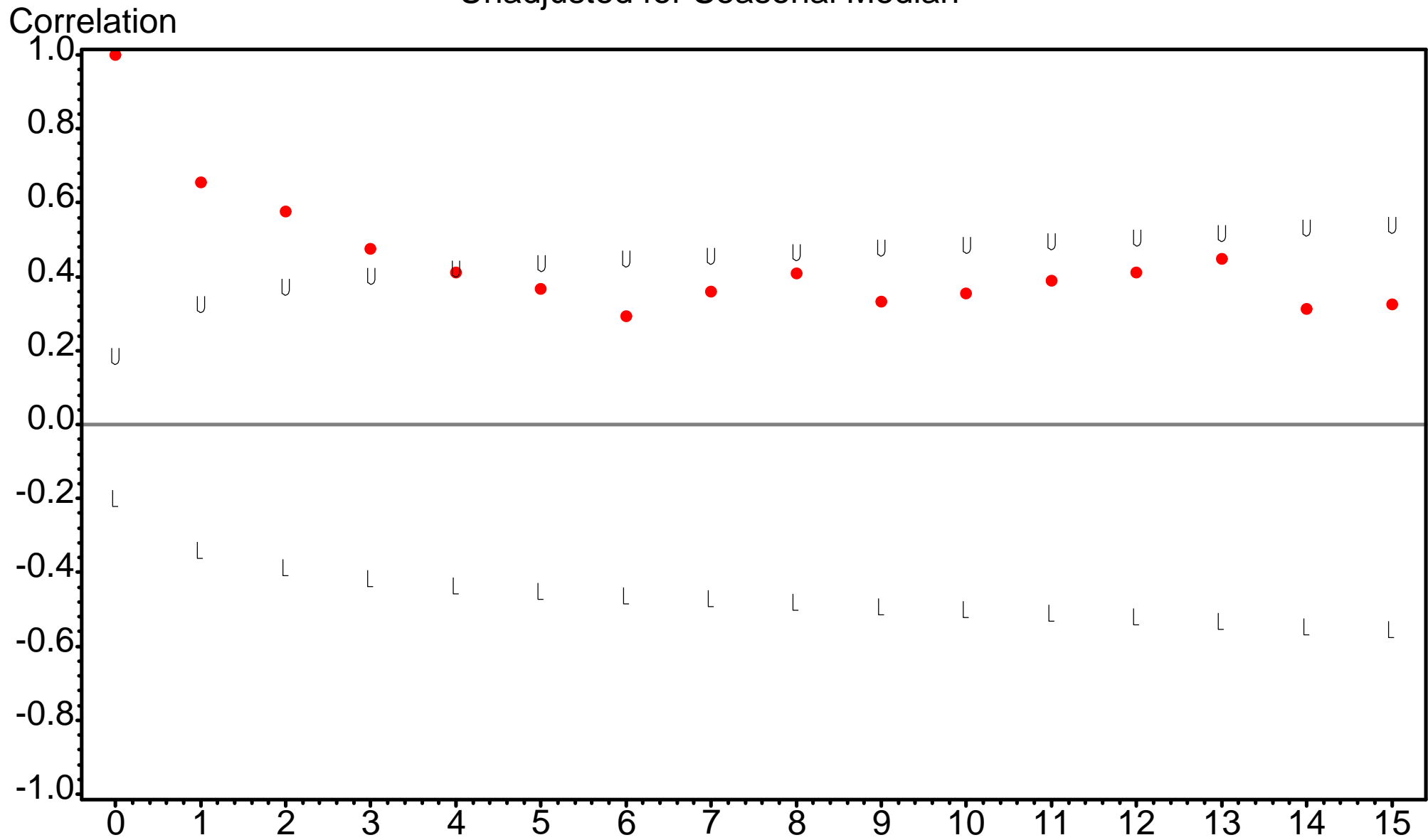


Pine Island Sound Trends Appendix - Display 1274
Autocorrelation Statistics for Surface Specific Conductance in Pine Island Sound

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.656	0.167	0.333	-0.333
2	0.576	0.189	0.378	-0.378
3	0.475	0.205	0.409	-0.409
4	0.411	0.215	0.429	-0.429
5	0.366	0.222	0.444	-0.444
6	0.292	0.227	0.455	-0.455
7	0.360	0.231	0.462	-0.462
8	0.408	0.236	0.472	-0.472
9	0.332	0.242	0.485	-0.485
10	0.354	0.247	0.493	-0.493
11	0.389	0.251	0.502	-0.502
12	0.410	0.257	0.513	-0.513
13	0.447	0.263	0.525	-0.525
14	0.312	0.270	0.539	-0.539
15	0.325	0.273	0.546	-0.546

Pine Island Sound Trends Appendix - Display 1275

Correlogram for Surface Specific Conductance in Pine Island Sound Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1276
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.3	0	0	1113.49

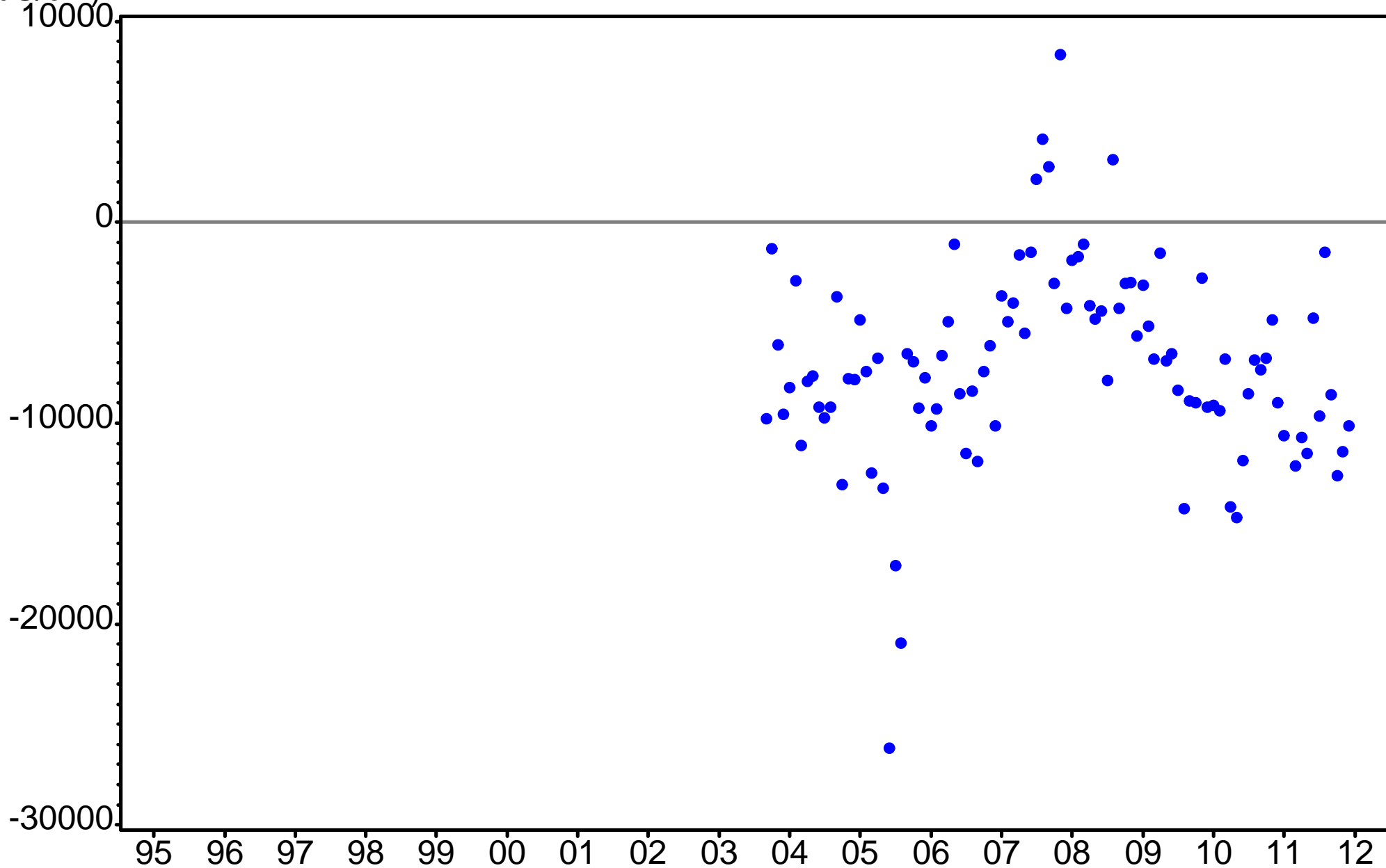
Pine Island Sound Trends Appendix - Display 1277
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.39058	.000002146	0.084327	1160

Pine Island Sound Trends Appendix - Display 1278

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
($\mu\text{S}/\text{cm}$)



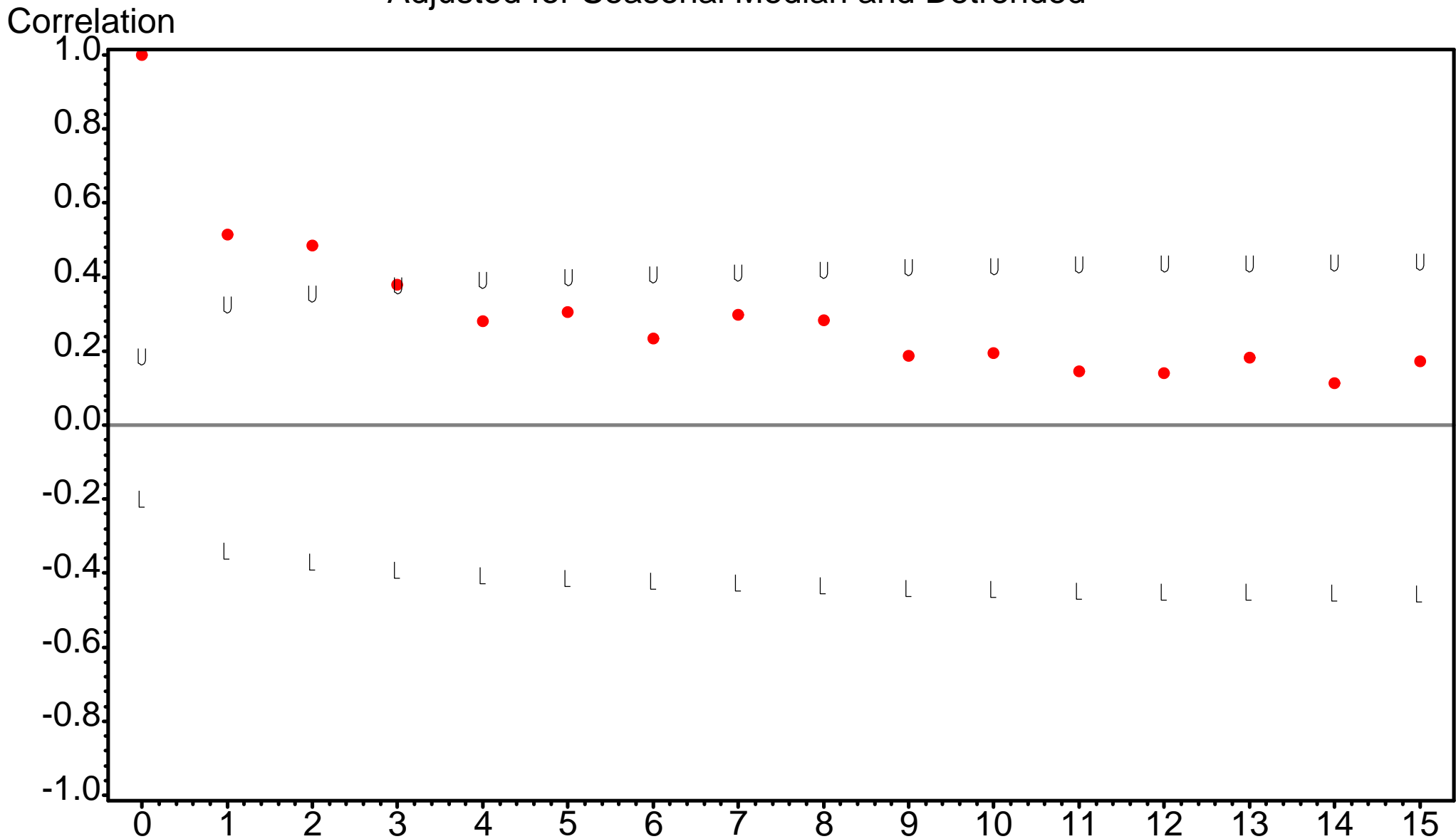
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1279
Autocorrelation Statistics for Surface Specific Conductance in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.514	0.167	0.333	-0.333
2	0.485	0.181	0.361	-0.361
3	0.379	0.192	0.385	-0.385
4	0.280	0.199	0.398	-0.398
5	0.306	0.203	0.406	-0.406
6	0.235	0.207	0.414	-0.414
7	0.297	0.210	0.419	-0.419
8	0.282	0.213	0.427	-0.427
9	0.188	0.217	0.434	-0.434
10	0.195	0.218	0.437	-0.437
11	0.146	0.220	0.440	-0.440
12	0.140	0.221	0.442	-0.442
13	0.183	0.222	0.443	-0.443
14	0.113	0.223	0.446	-0.446
15	0.173	0.224	0.447	-0.447

Pine Island Sound Trends Appendix - Display 1280

Correlogram for Surface Specific Conductance in Pine Island Sound Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

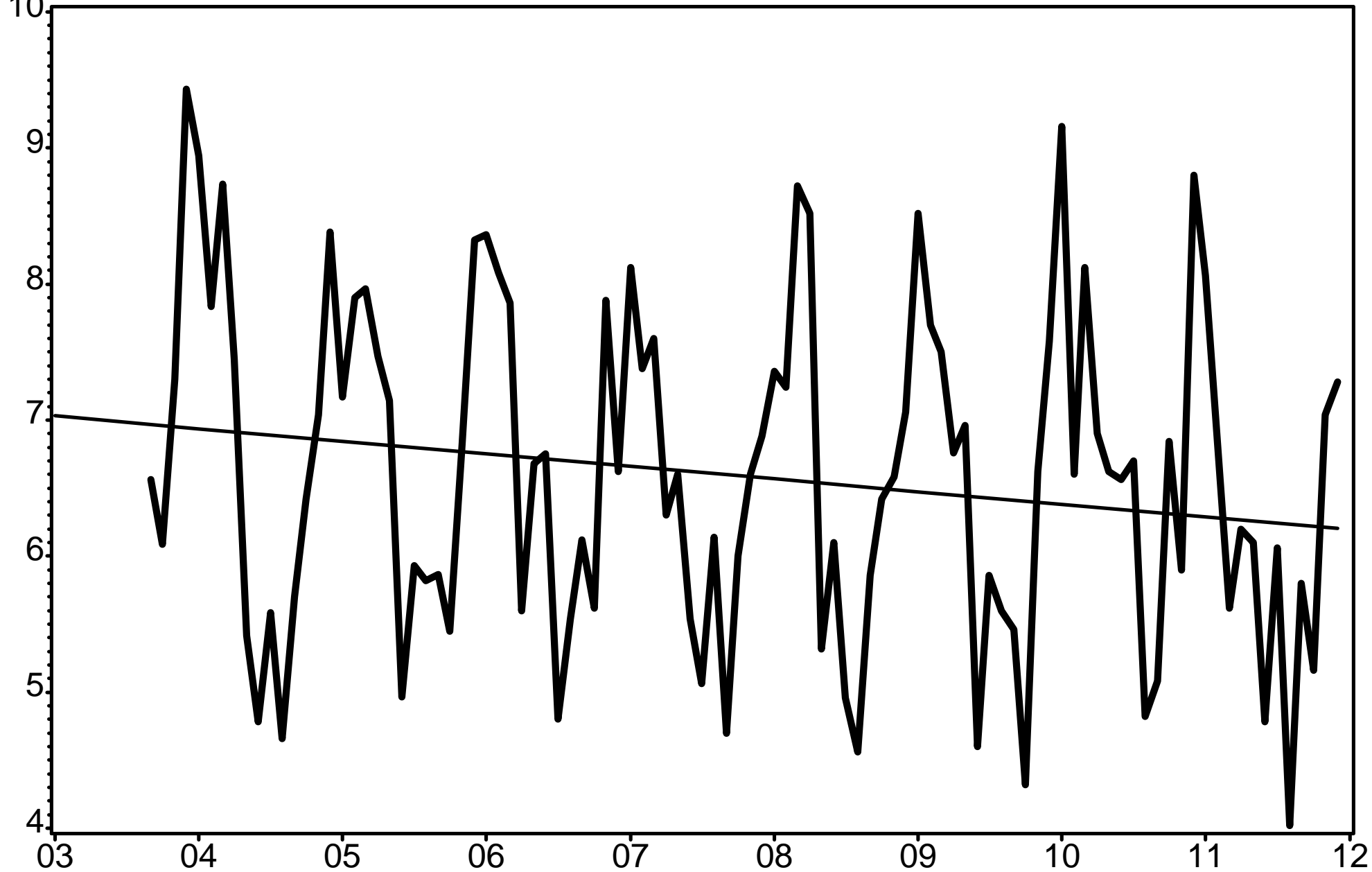
Pine Island Sound Trends Appendix - Display 1281

Monthly Data Time Series

for Surface Dissolved Oxygen in Pine Island Sound

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



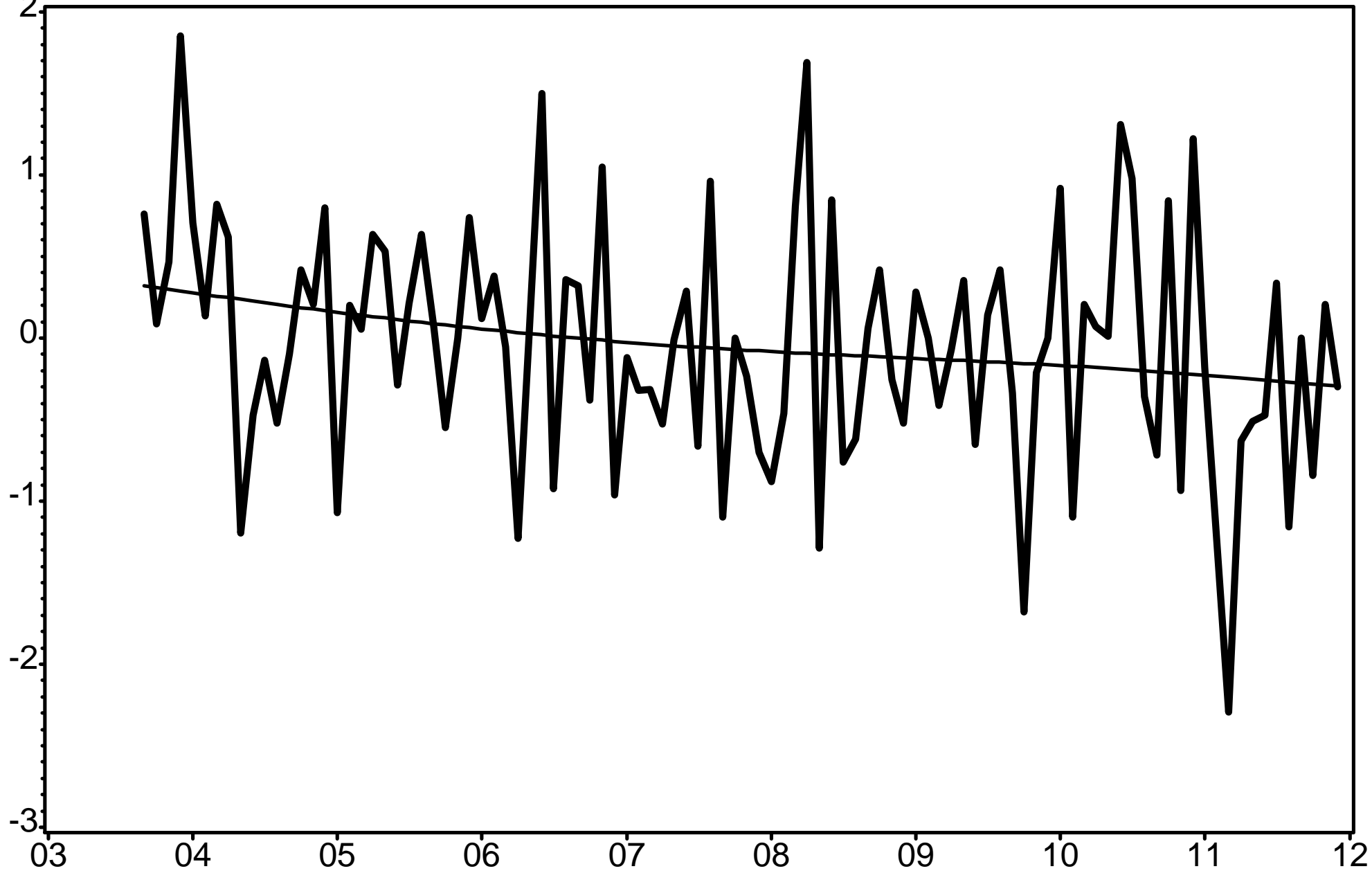
Pine Island Sound Trends Appendix - Display 1282

Monthly Data Time Series

for Surface Dissolved Oxygen in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

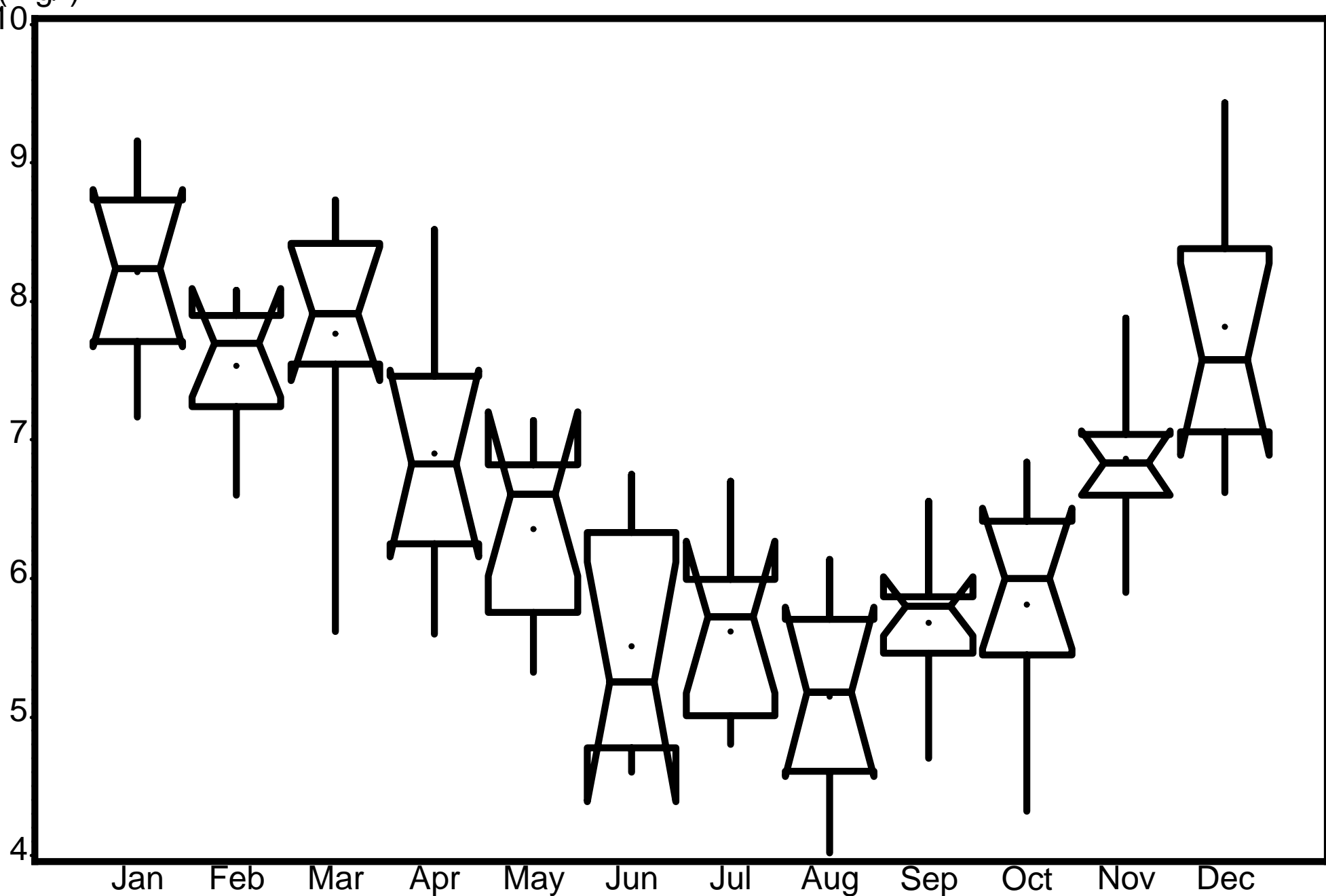


Pine Island Sound Trends Appendix - Display 1283

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Pine Island Sound

DO_mgl
(mg/l)



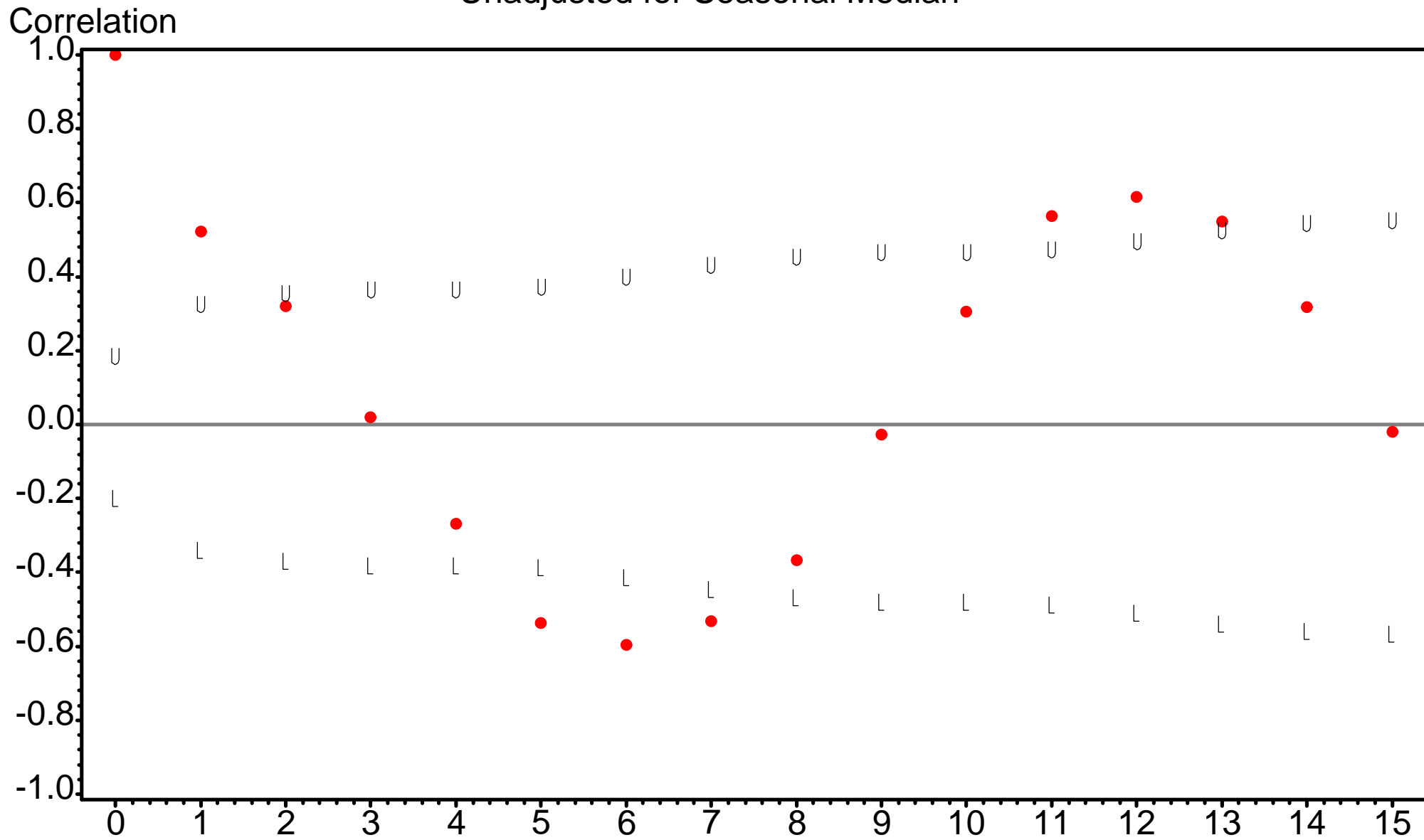
Pine Island Sound Trends Appendix - Display 1284
 Autocorrelation Statistics for Surface Dissolved Oxygen in Pine Island Sound

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.522	0.167	0.333	-0.333
2	0.321	0.181	0.362	-0.362
3	0.020	0.186	0.373	-0.373
4	-0.268	0.186	0.373	-0.373
5	-0.536	0.190	0.380	-0.380
6	-0.597	0.203	0.407	-0.407
7	-0.532	0.219	0.438	-0.438
8	-0.366	0.231	0.461	-0.461
9	-0.027	0.236	0.472	-0.472
10	0.305	0.236	0.472	-0.472
11	0.565	0.240	0.479	-0.479
12	0.616	0.252	0.503	-0.503
13	0.548	0.265	0.531	-0.531
14	0.318	0.276	0.551	-0.551
15	-0.020	0.279	0.558	-0.558

Pine Island Sound Trends Appendix - Display 1285

Correlogram for Surface Dissolved Oxygen in Pine Island Sound

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1286
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.109	0.11	0.11	-0.1

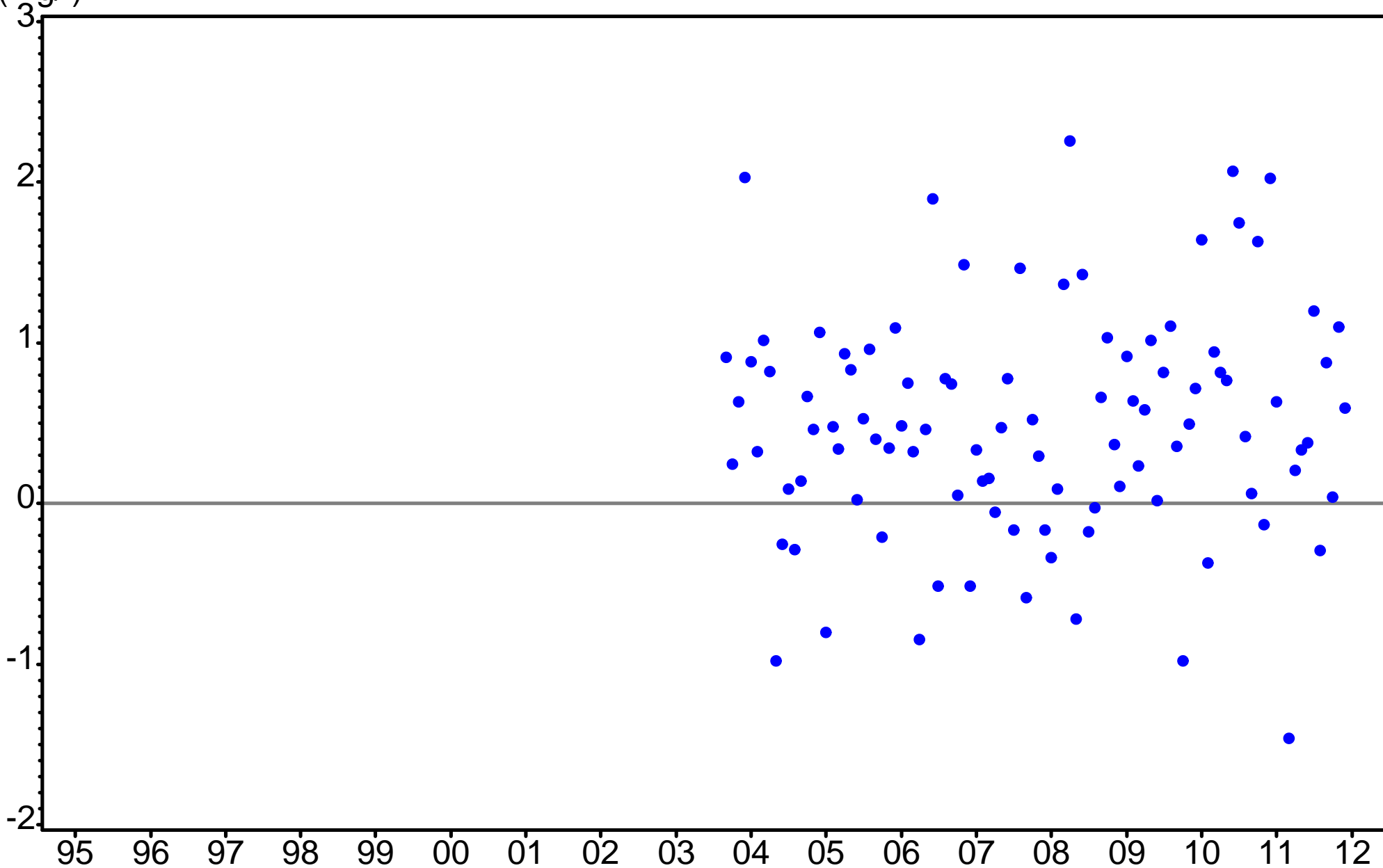
Pine Island Sound Trends Appendix - Display 1287
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.18006	0.029802	0.068210	-0.090429

Pine Island Sound Trends Appendix - Display 1288

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



Zero Reference Line Shown

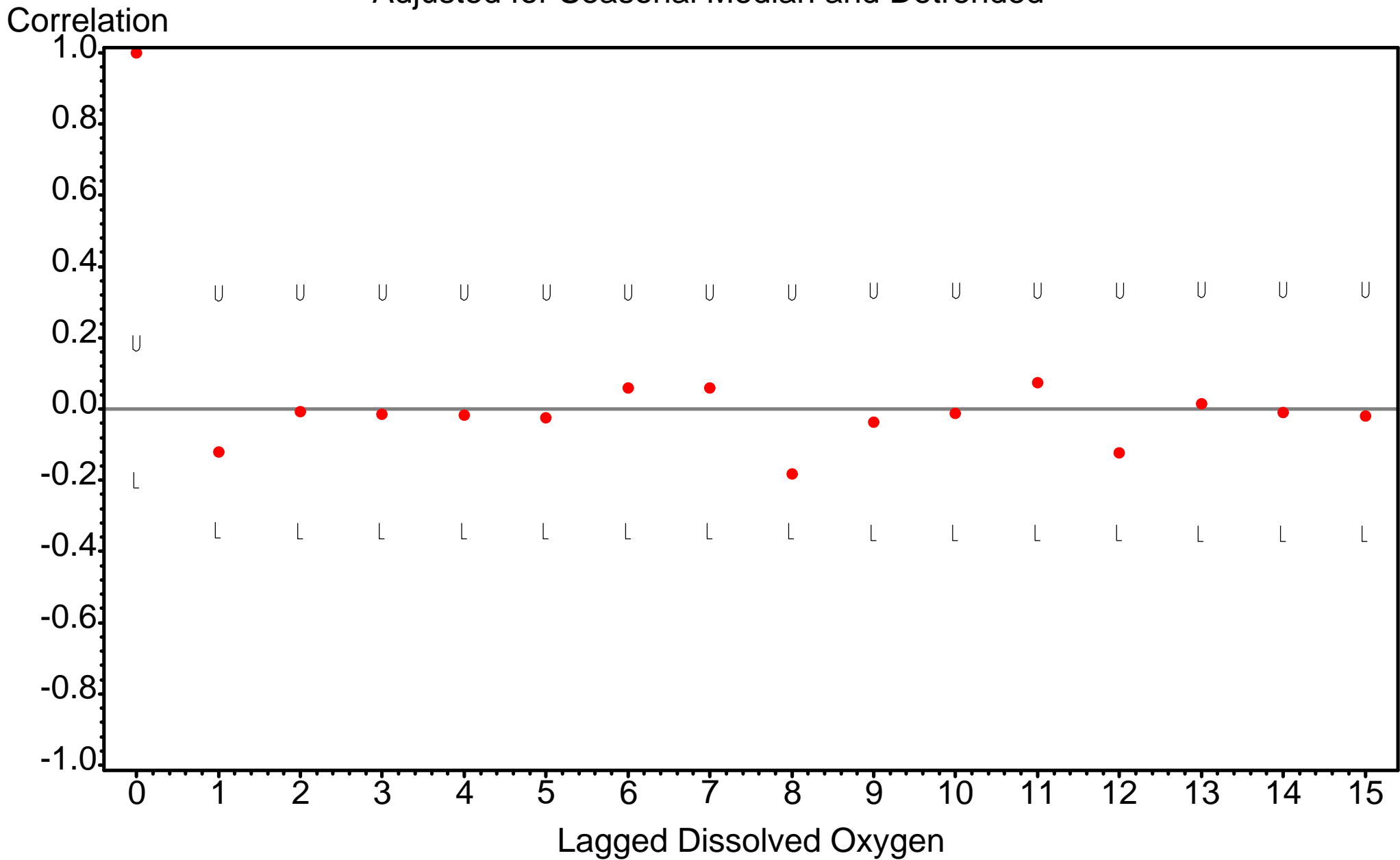
Pine Island Sound Trends Appendix - Display 1289
Autocorrelation Statistics for Surface Dissolved Oxygen in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.121	0.167	0.333	-0.333
2	-0.007	0.167	0.335	-0.335
3	-0.015	0.167	0.335	-0.335
4	-0.017	0.167	0.335	-0.335
5	-0.025	0.168	0.335	-0.335
6	0.060	0.168	0.335	-0.335
7	0.058	0.168	0.335	-0.335
8	-0.181	0.168	0.336	-0.336
9	-0.038	0.170	0.339	-0.339
10	-0.012	0.170	0.340	-0.340
11	0.073	0.170	0.340	-0.340
12	-0.122	0.170	0.340	-0.340
13	0.015	0.171	0.342	-0.342
14	-0.011	0.171	0.342	-0.342
15	-0.020	0.171	0.342	-0.342

Pine Island Sound Trends Appendix - Display 1290

Correlogram for Surface Dissolved Oxygen in Pine Island Sound

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

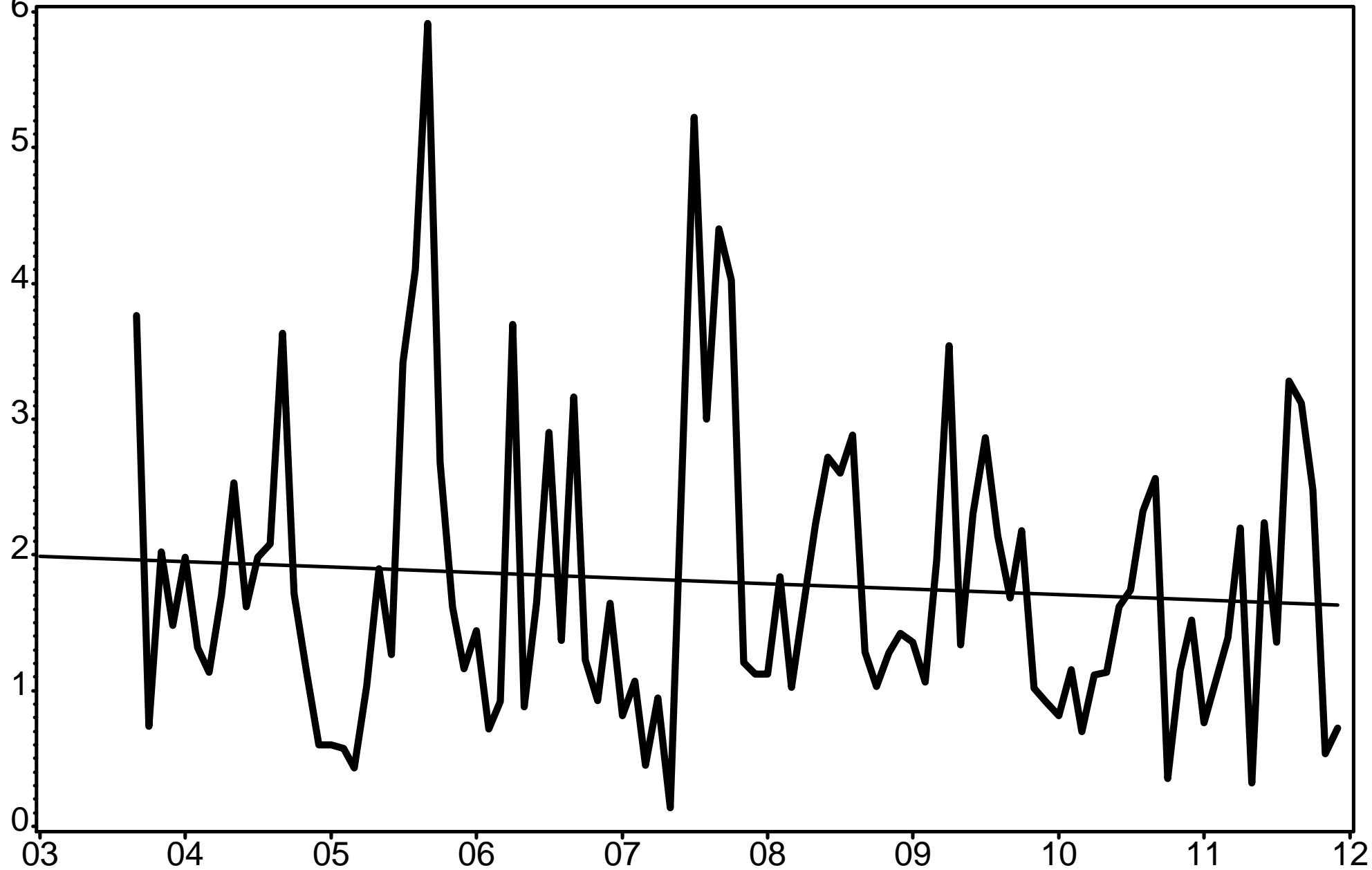
Pine Island Sound Trends Appendix - Display 1291

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Pine Island Sound

Not Adjusted for Seasonal Medians

DSI_mgl
(mg/L)



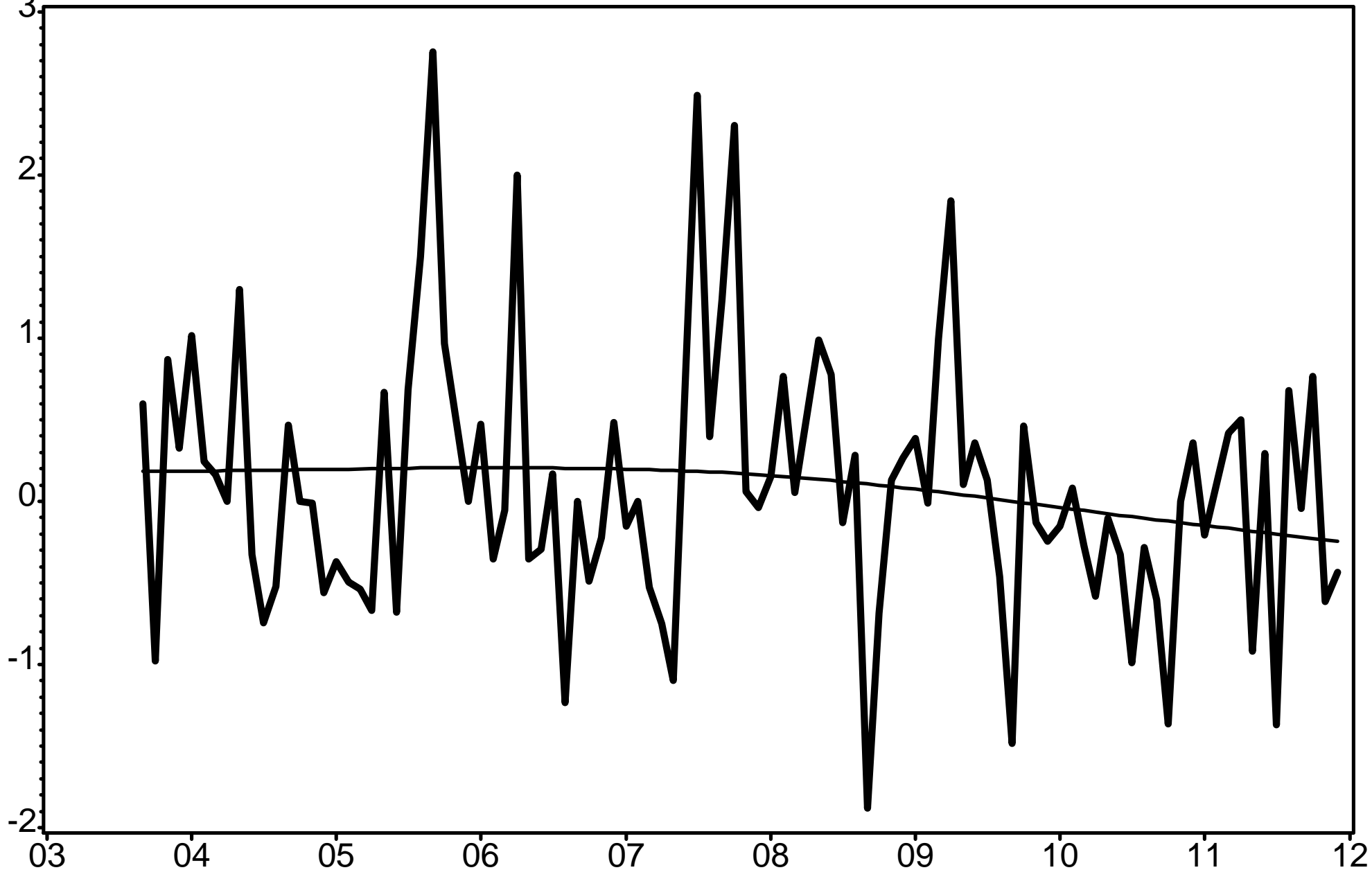
Pine Island Sound Trends Appendix - Display 1292

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
DSI_mgl
(mg/L)

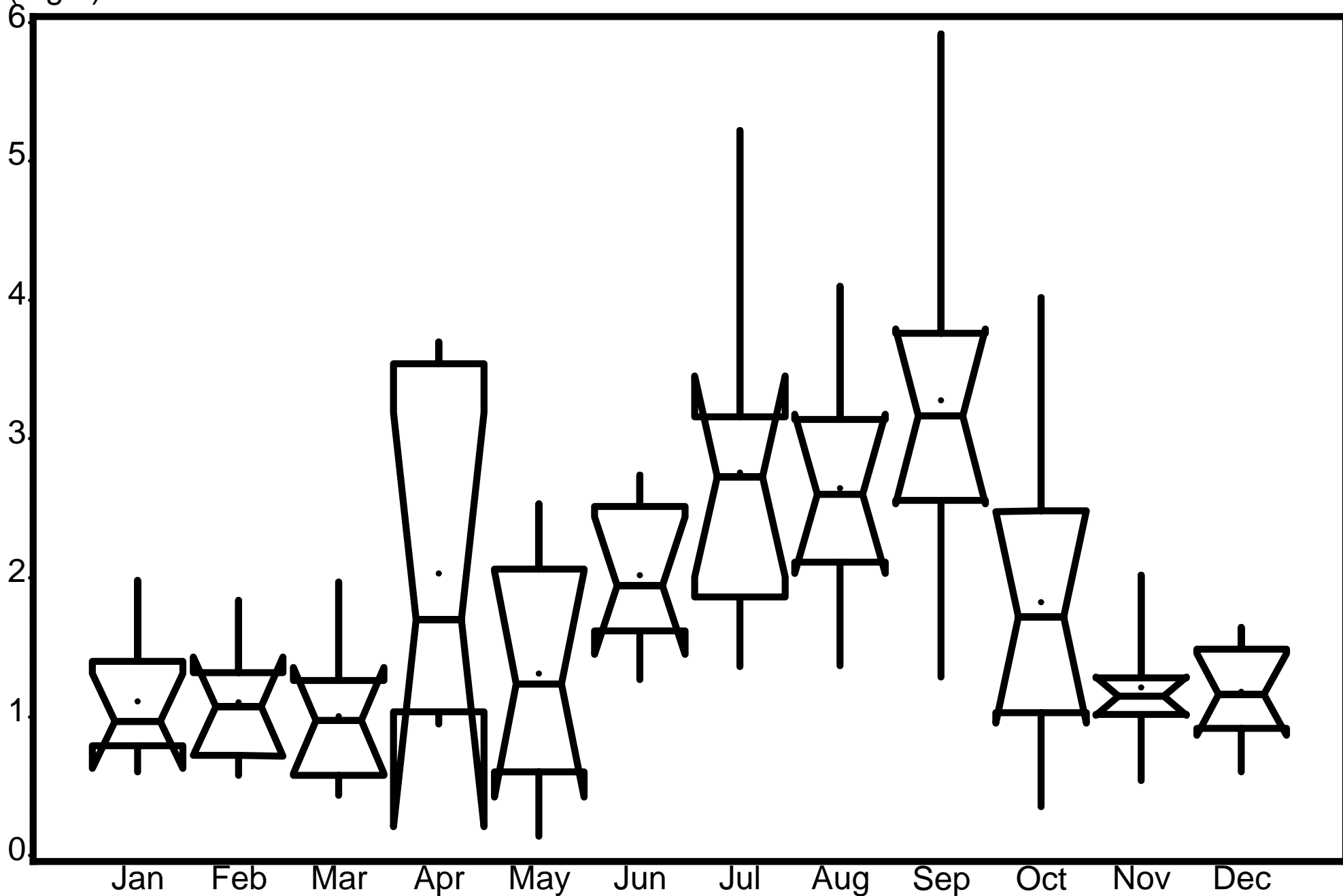


Pine Island Sound Trends Appendix - Display 1293

Seasonal Univariate Statistics

for Surface Dissolved Silica (as SiO₂) in Pine Island Sound

DSI_mgl
(mg/L)



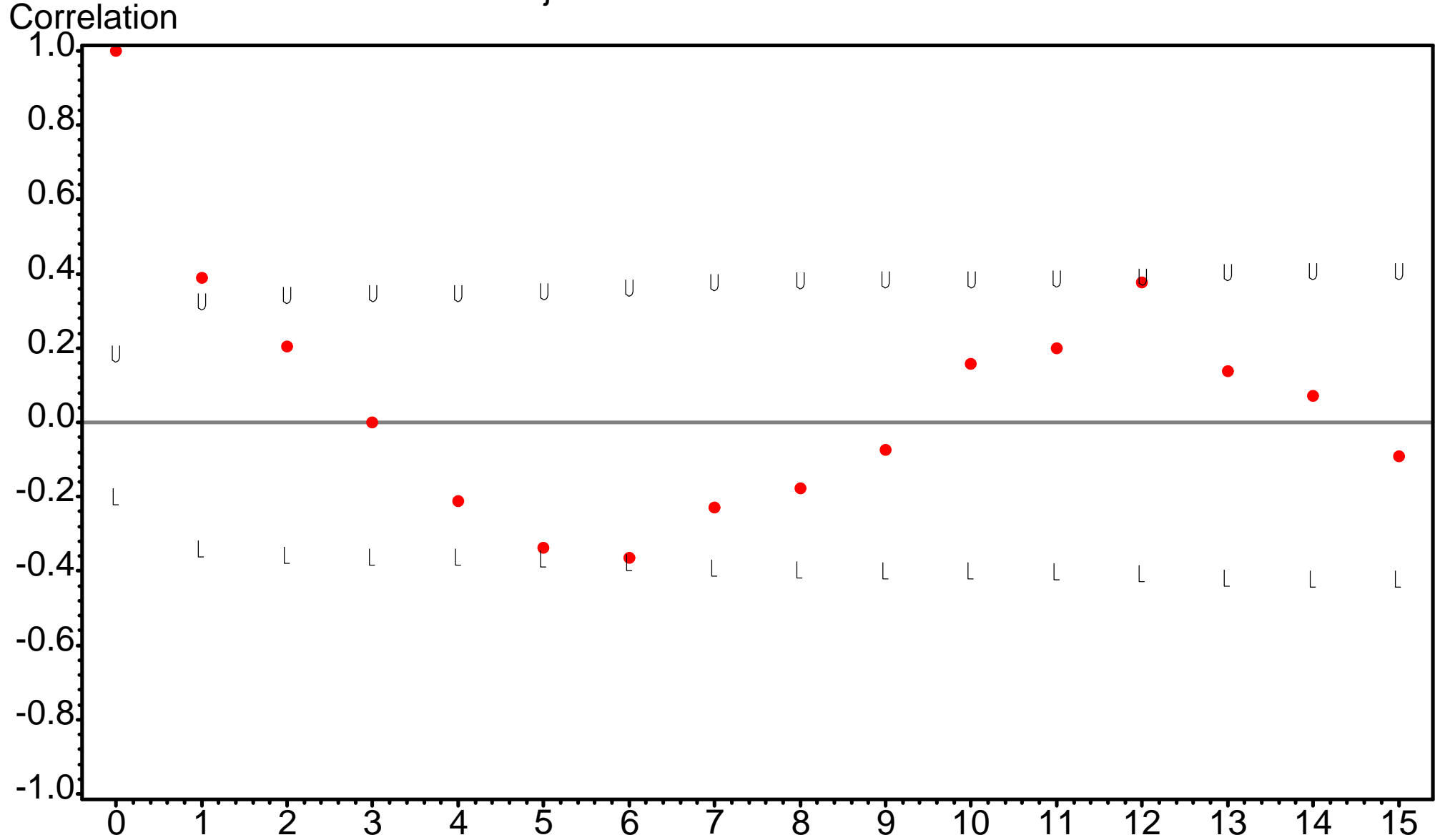
Pine Island Sound Trends Appendix - Display 1294
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Pine Island Sound

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.388	0.167	0.333	-0.333
2	0.205	0.175	0.350	-0.350
3	-0.001	0.177	0.354	-0.354
4	-0.212	0.177	0.354	-0.354
5	-0.337	0.179	0.359	-0.359
6	-0.365	0.185	0.370	-0.370
7	-0.228	0.192	0.383	-0.383
8	-0.177	0.194	0.388	-0.388
9	-0.074	0.196	0.391	-0.391
10	0.157	0.196	0.392	-0.392
11	0.199	0.197	0.394	-0.394
12	0.376	0.199	0.398	-0.398
13	0.139	0.205	0.411	-0.411
14	0.071	0.206	0.413	-0.413
15	-0.090	0.207	0.413	-0.413

Pine Island Sound Trends Appendix - Display 1295

Correlogram for Surface Dissolved Silica (as SiO₂) in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1296
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Pine Island Sound
Unadjusted for Seasonal Medians

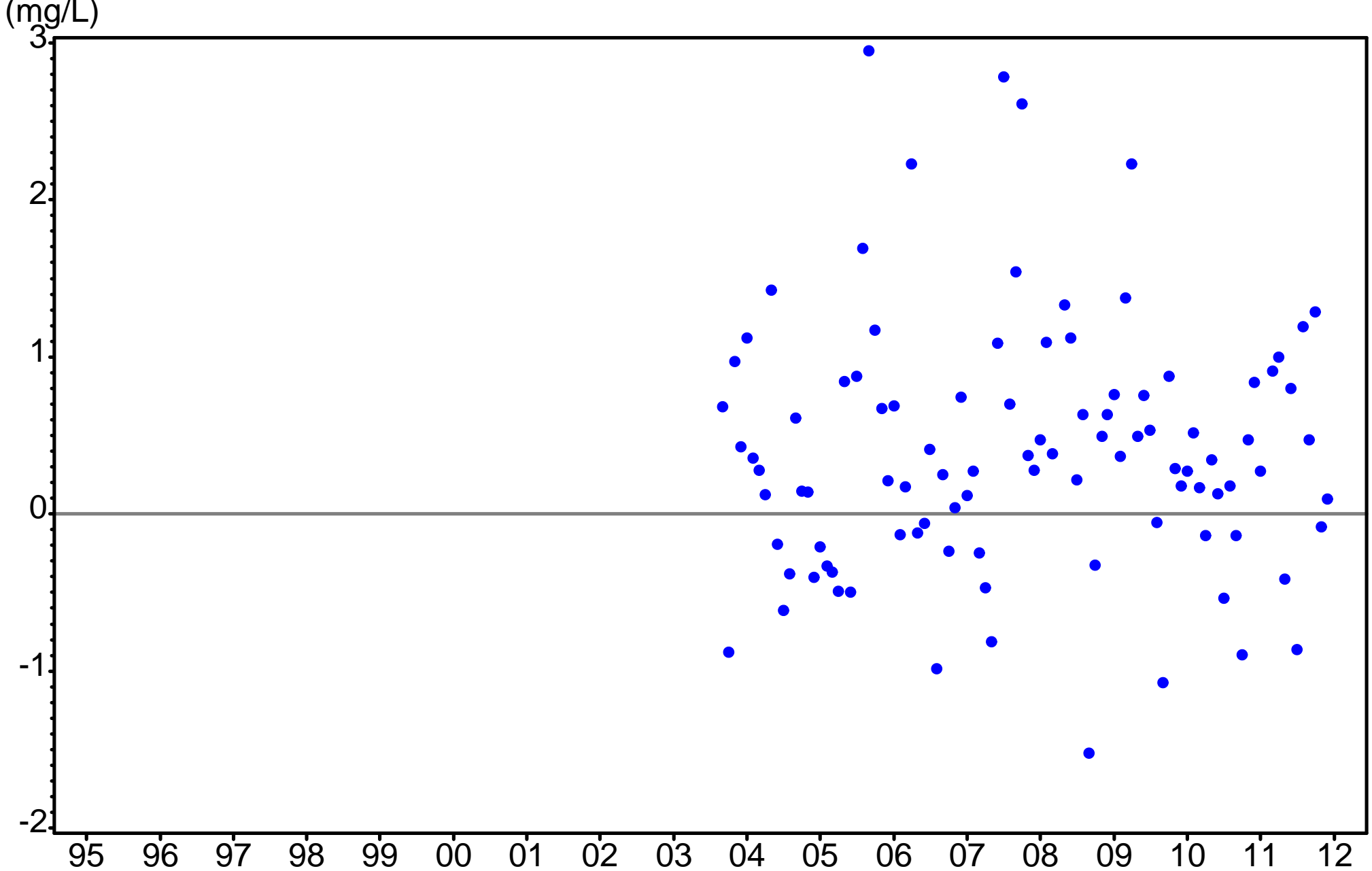
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.045	0.515	0.515	-0.027

Pine Island Sound Trends Appendix - Display 1297
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.12147	0.14914	0.054474	-0.053667

Pine Island Sound Trends Appendix - Display 1298

Time Series Plot of Surface Dissolved Silica (as SiO₂) Data Adjusted for Season and Detrended
Adjusted Pine Island Sound



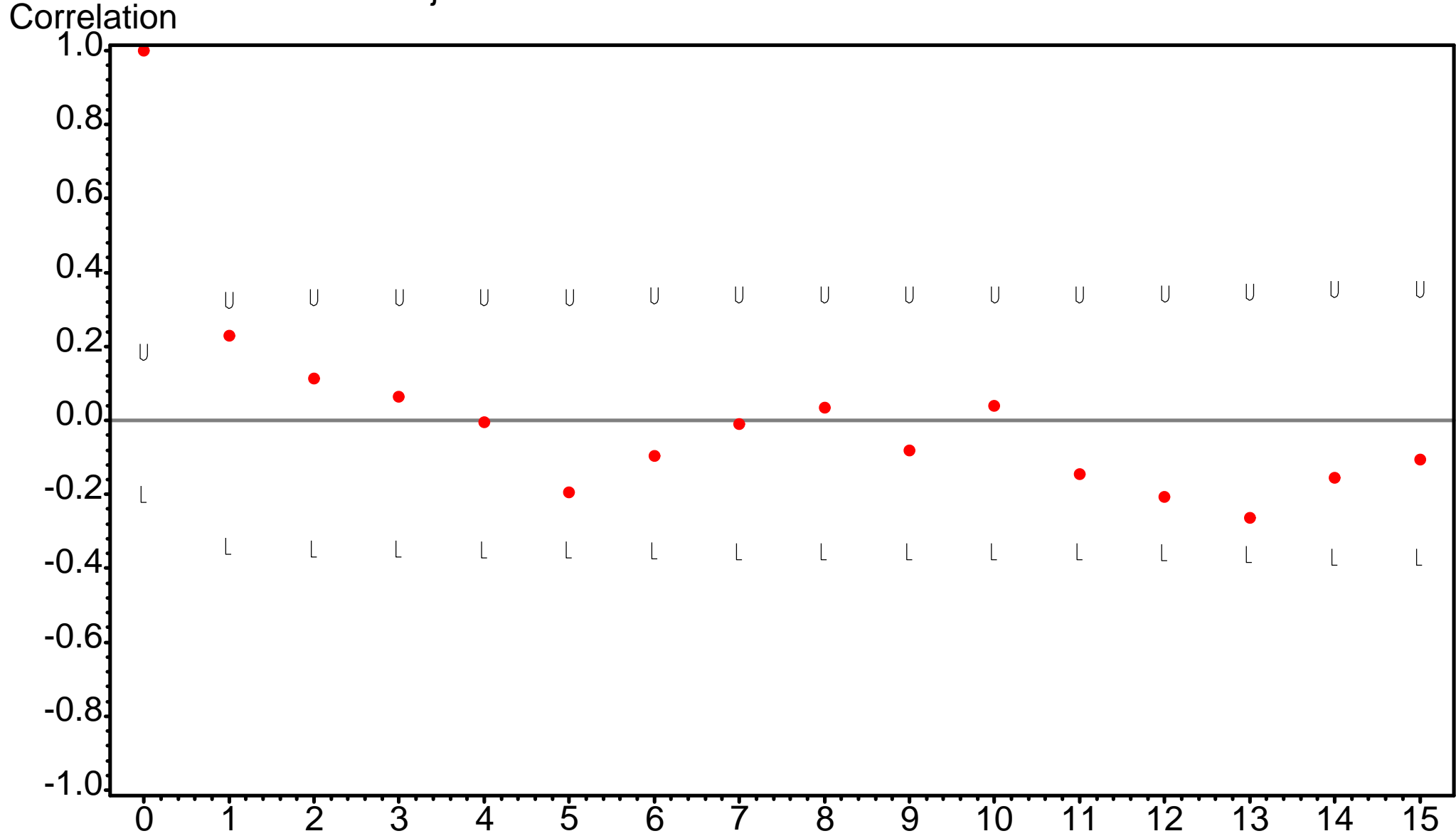
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1299
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.228	0.167	0.333	-0.333
2	0.114	0.170	0.339	-0.339
3	0.065	0.170	0.340	-0.340
4	-0.005	0.170	0.341	-0.341
5	-0.194	0.170	0.341	-0.341
6	-0.095	0.172	0.345	-0.345
7	-0.009	0.173	0.346	-0.346
8	0.034	0.173	0.346	-0.346
9	-0.080	0.173	0.346	-0.346
10	0.039	0.173	0.347	-0.347
11	-0.144	0.173	0.347	-0.347
12	-0.206	0.175	0.349	-0.349
13	-0.263	0.177	0.354	-0.354
14	-0.155	0.180	0.361	-0.361
15	-0.107	0.182	0.363	-0.363

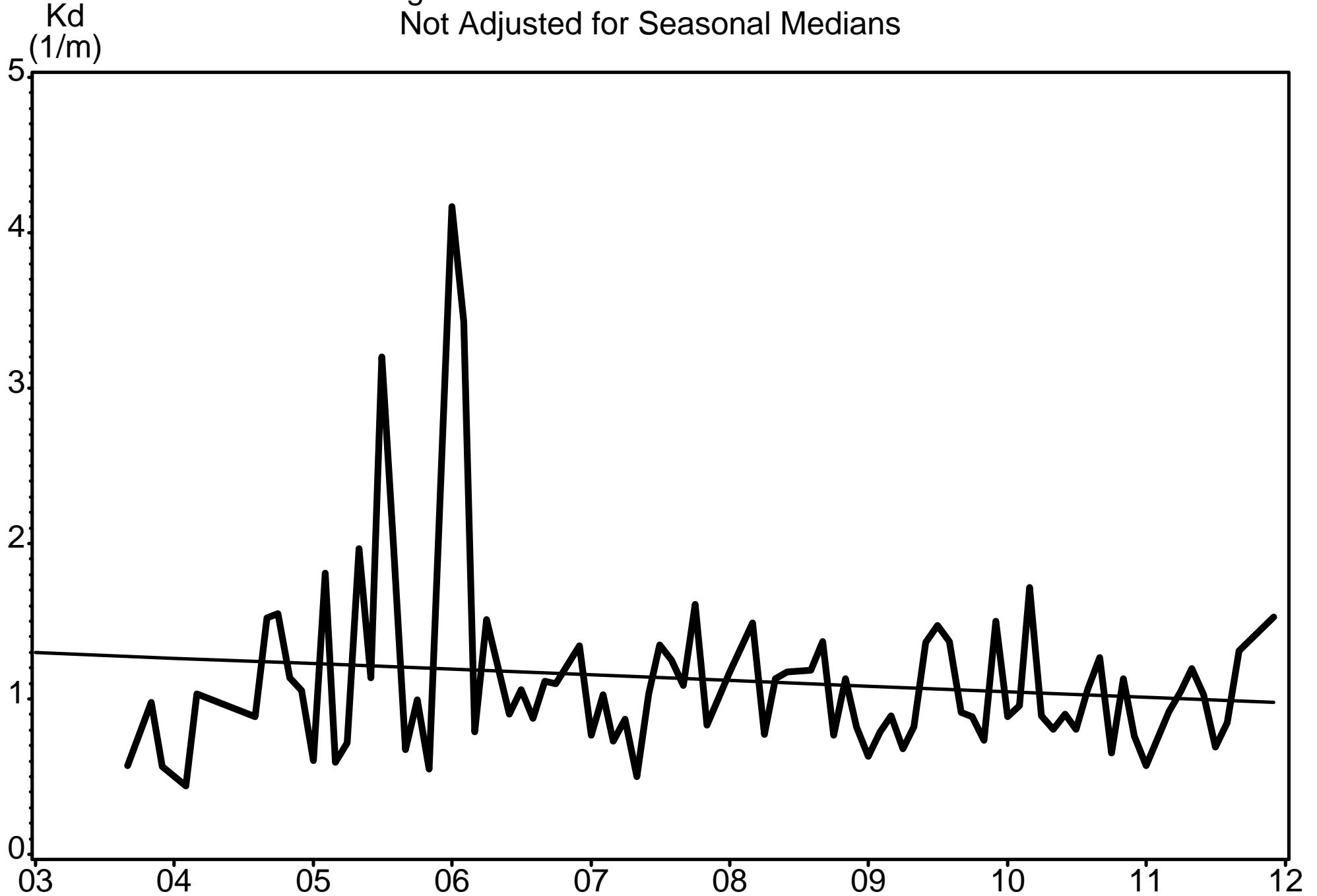
Pine Island Sound Trends Appendix - Display 1300

Correlogram for Surface Dissolved Silica (as SiO₂) in Pine Island Sound Adjusted for Seasonal Median and Detrended



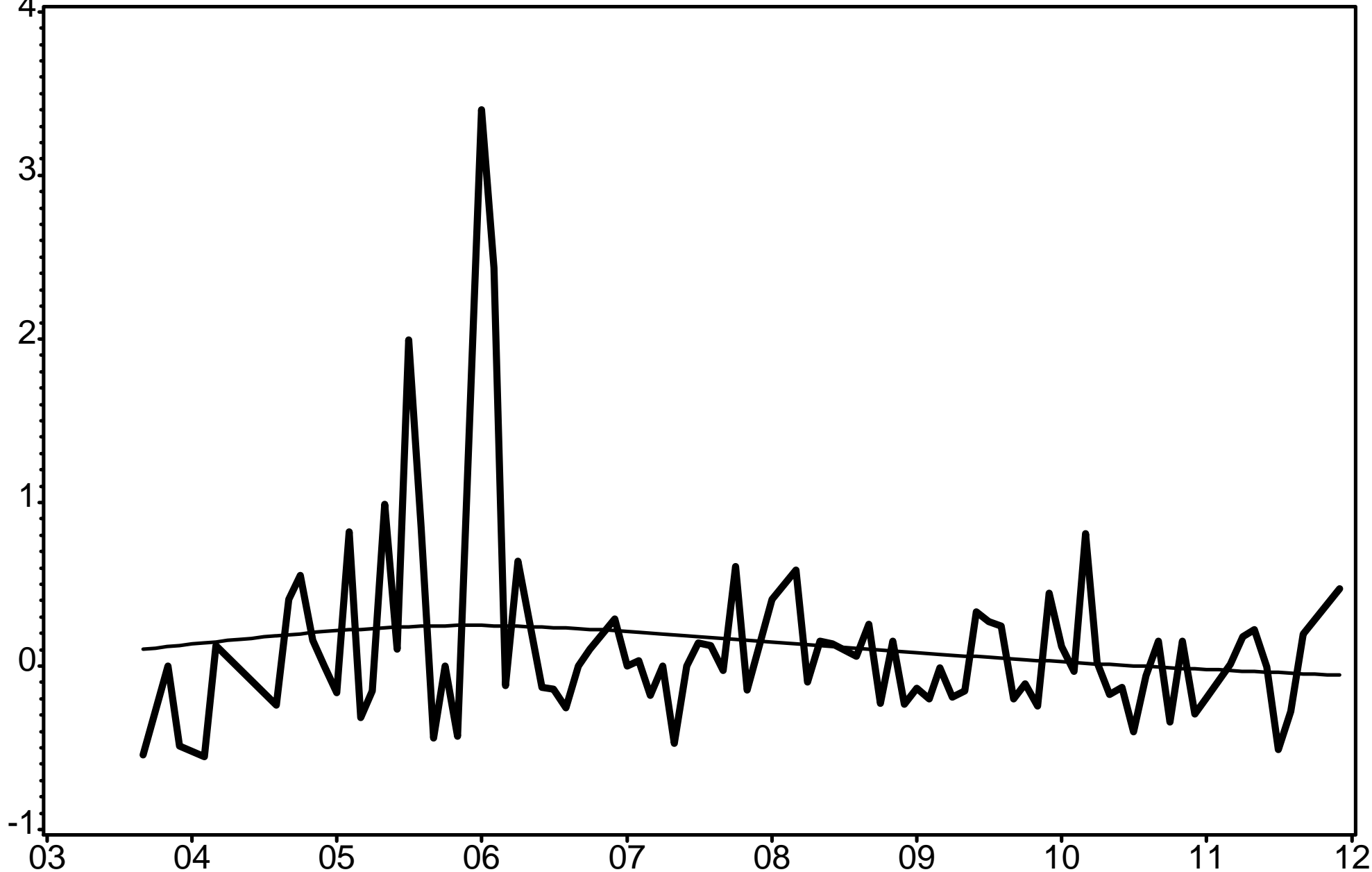
Lagged Dissolved Silica (as SiO₂)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1301
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Pine Island Sound
Not Adjusted for Seasonal Medians

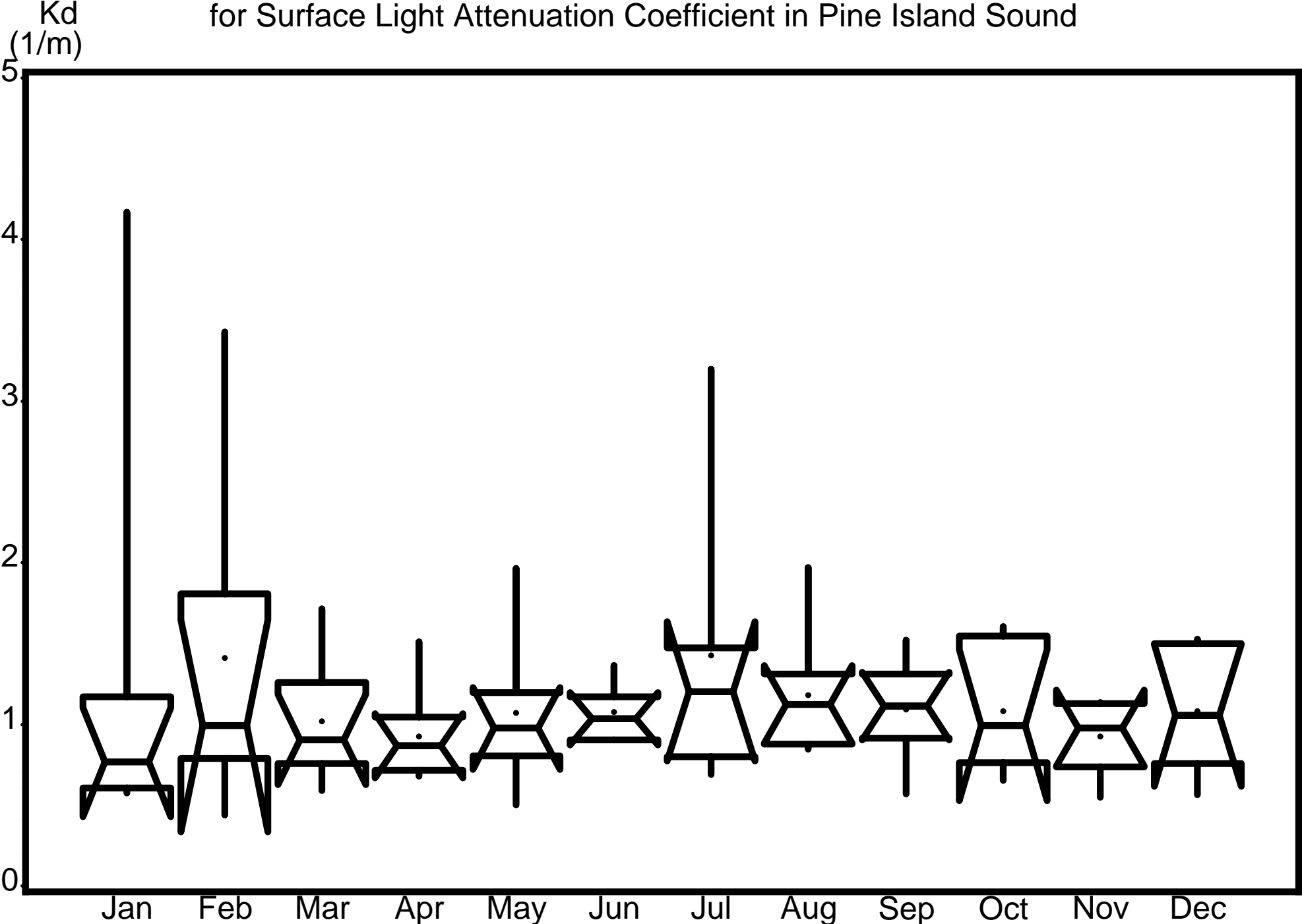


Pine Island Sound Trends Appendix - Display 1302
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Pine Island Sound
Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Pine Island Sound Trends Appendix - Display 1303
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Pine Island Sound



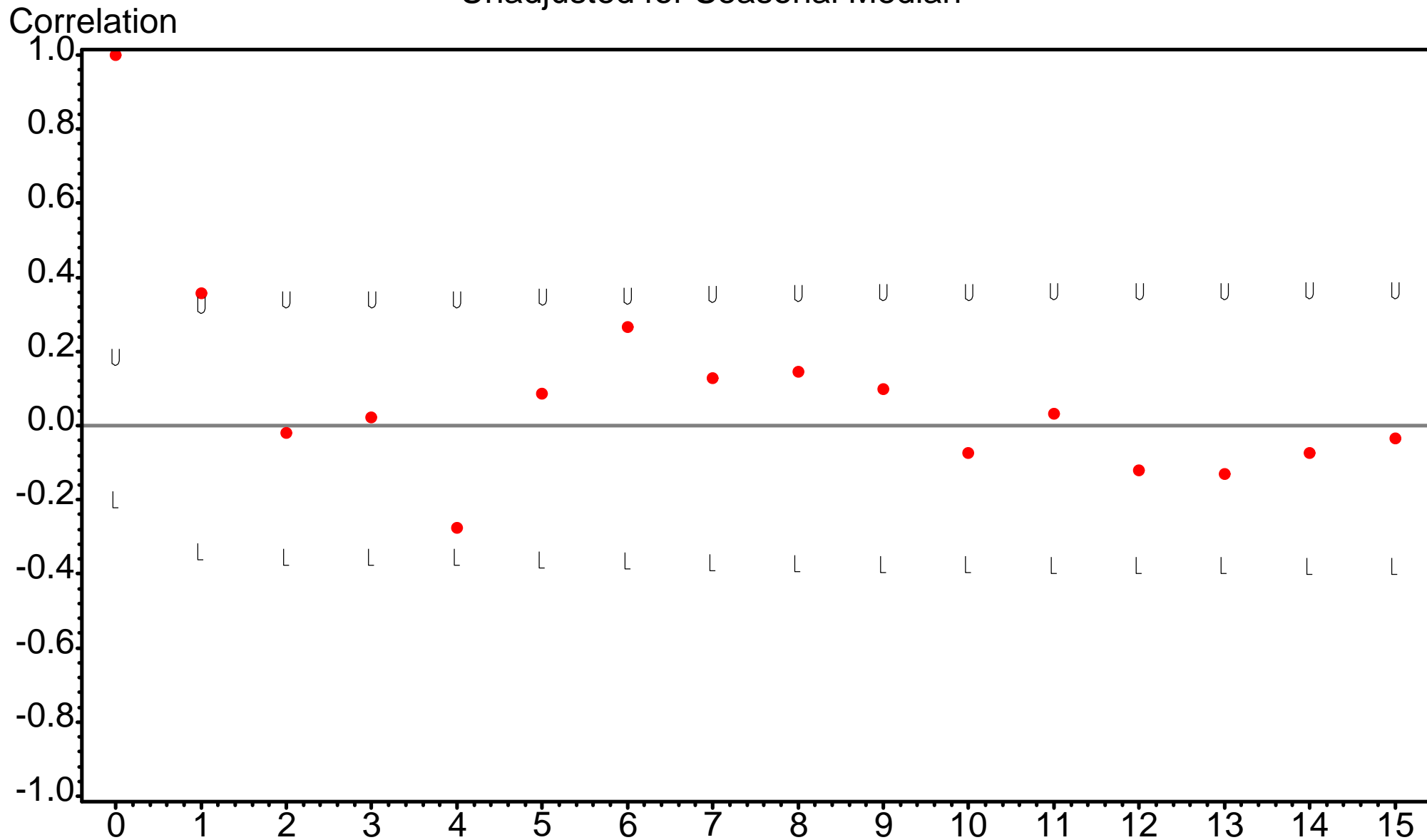
Pine Island Sound Trends Appendix - Display 1304
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Pine Island Sound

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.356	0.167	0.333	-0.333
2	-0.019	0.174	0.347	-0.347
3	0.023	0.174	0.347	-0.347
4	-0.276	0.174	0.347	-0.347
5	0.085	0.178	0.355	-0.355
6	0.265	0.178	0.356	-0.356
7	0.128	0.182	0.363	-0.363
8	0.145	0.182	0.365	-0.365
9	0.099	0.184	0.367	-0.367
10	-0.075	0.184	0.368	-0.368
11	0.033	0.184	0.369	-0.369
12	-0.121	0.184	0.369	-0.369
13	-0.131	0.185	0.370	-0.370
14	-0.073	0.186	0.372	-0.372
15	-0.034	0.186	0.372	-0.372

Pine Island Sound Trends Appendix - Display 1305

Correlogram for Surface Light Attenuation Coefficient in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1306
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Pine Island Sound
Unadjusted for Seasonal Medians

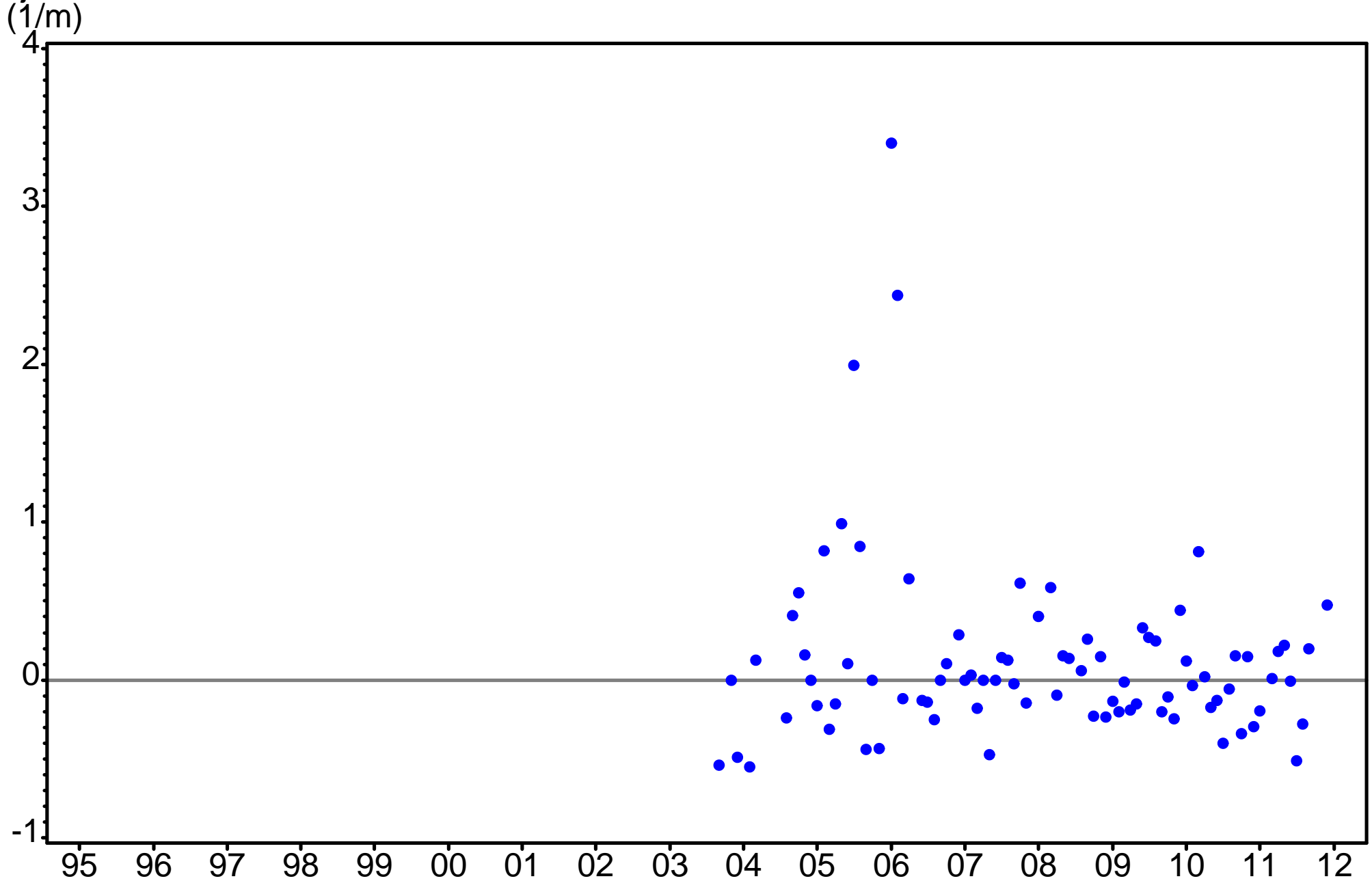
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.005	0.949	0.949	-0.002

Pine Island Sound Trends Appendix - Display 1307
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0	1	1	0

Pine Island Sound Trends Appendix - Display 1308

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Pine Island Sound



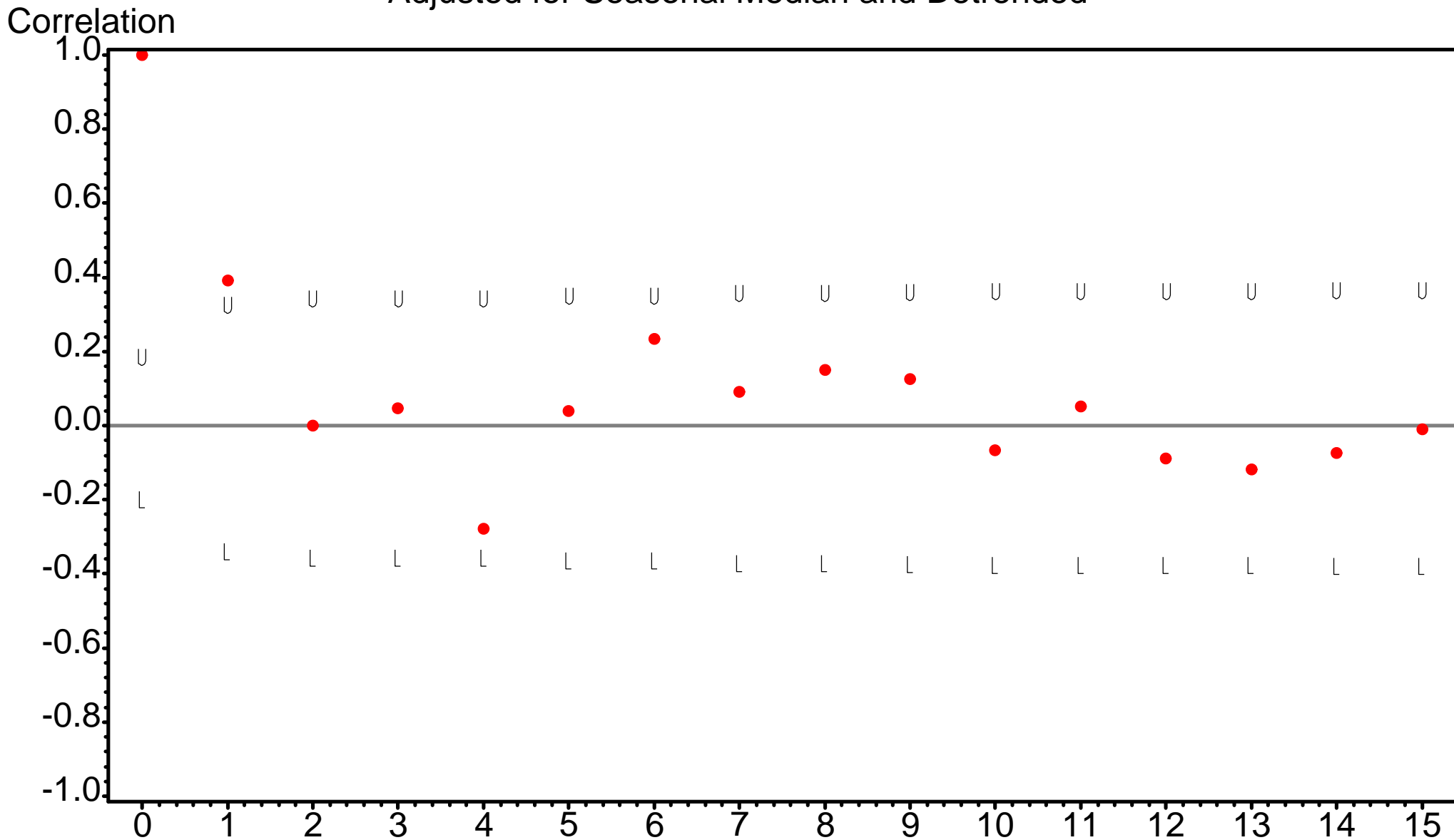
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1309
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.391	0.167	0.333	-0.333
2	0.000	0.175	0.350	-0.350
3	0.048	0.175	0.350	-0.350
4	-0.277	0.175	0.350	-0.350
5	0.039	0.179	0.358	-0.358
6	0.234	0.179	0.358	-0.358
7	0.092	0.182	0.364	-0.364
8	0.150	0.182	0.365	-0.365
9	0.126	0.184	0.367	-0.367
10	-0.066	0.184	0.369	-0.369
11	0.052	0.185	0.369	-0.369
12	-0.089	0.185	0.369	-0.369
13	-0.118	0.185	0.370	-0.370
14	-0.073	0.186	0.372	-0.372
15	-0.009	0.186	0.372	-0.372

Pine Island Sound Trends Appendix - Display 1310

Correlogram for Surface Light Attenuation Coefficient in Pine Island Sound Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

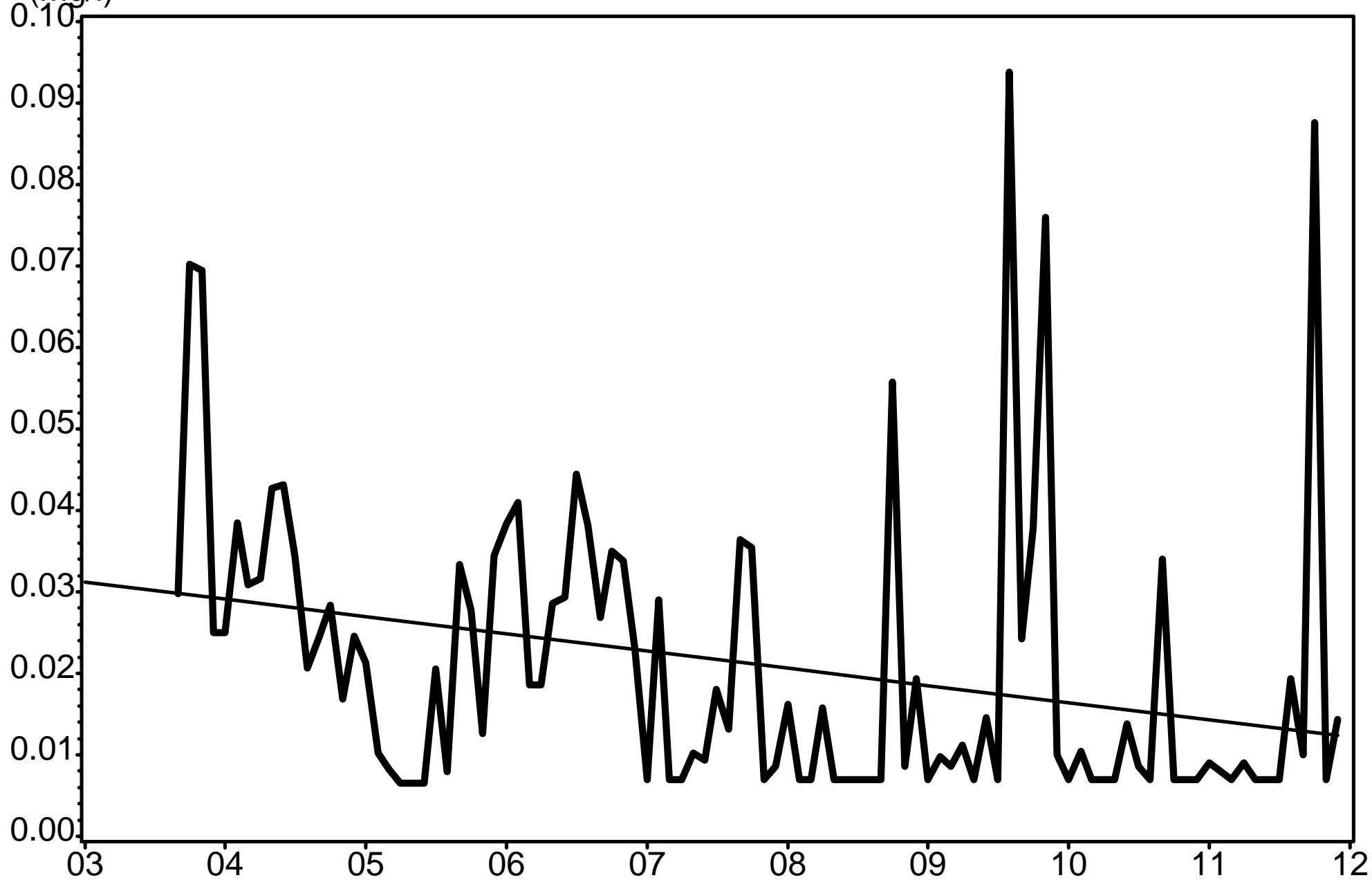
Pine Island Sound Trends Appendix - Display 1311

Monthly Data Time Series

for Surface Ammonia as N Total in Pine Island Sound

Not Adjusted for Seasonal Medians

NH₃_mgl
(mg/l)



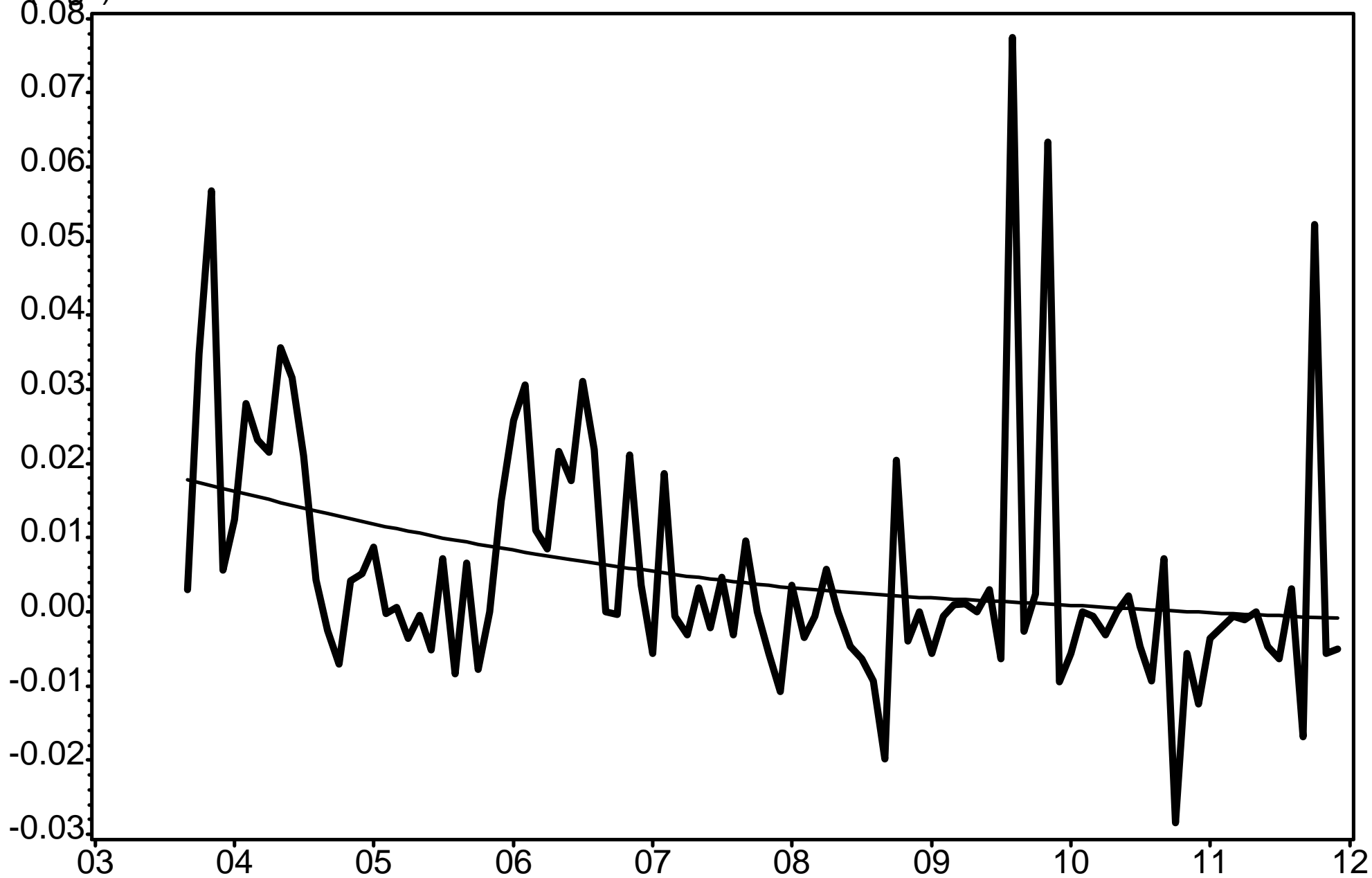
Pine Island Sound Trends Appendix - Display 1312

Monthly Data Time Series

for Surface Ammonia as N Total in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

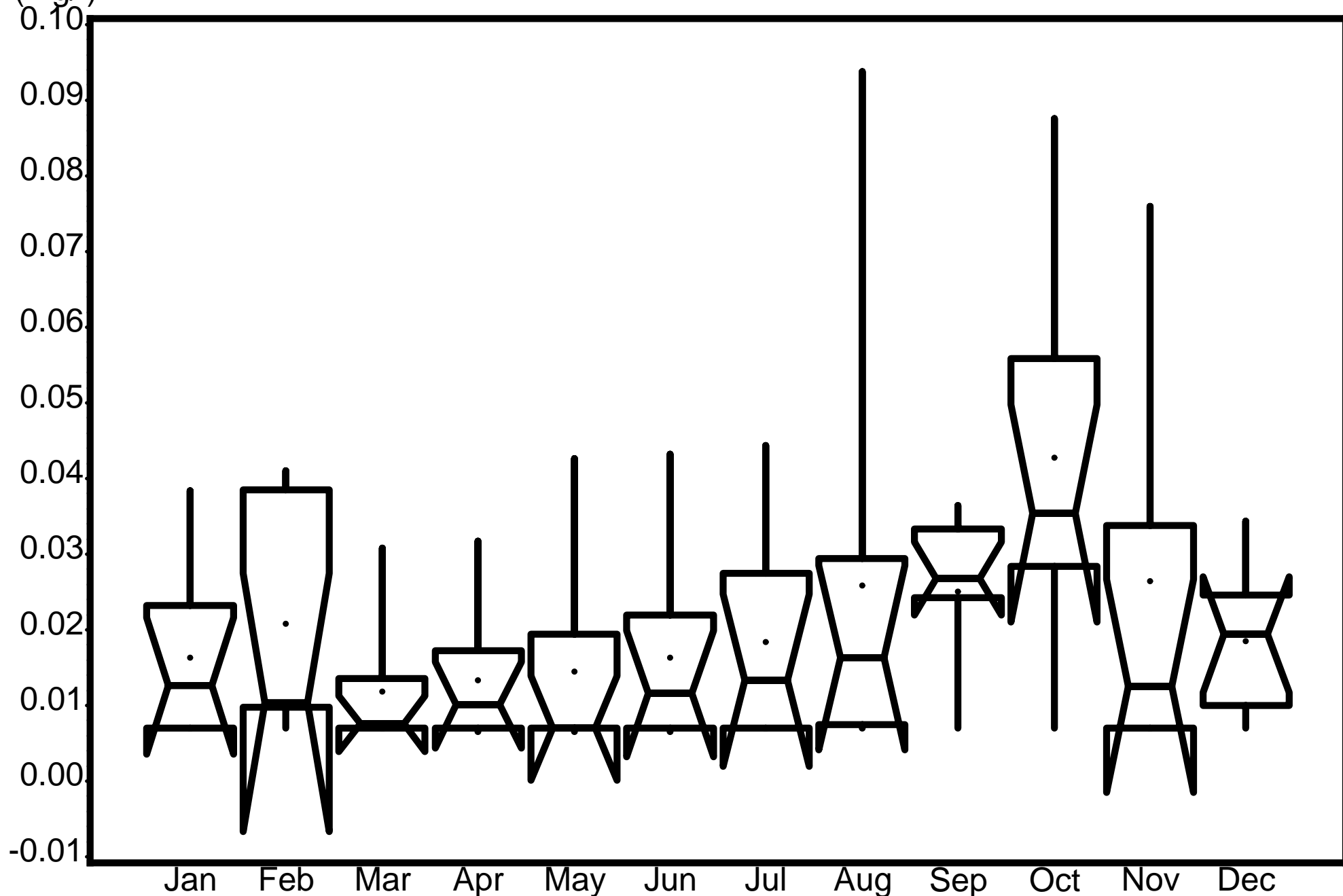


Pine Island Sound Trends Appendix - Display 1313

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Pine Island Sound

NH3_mgl
(mg/l)



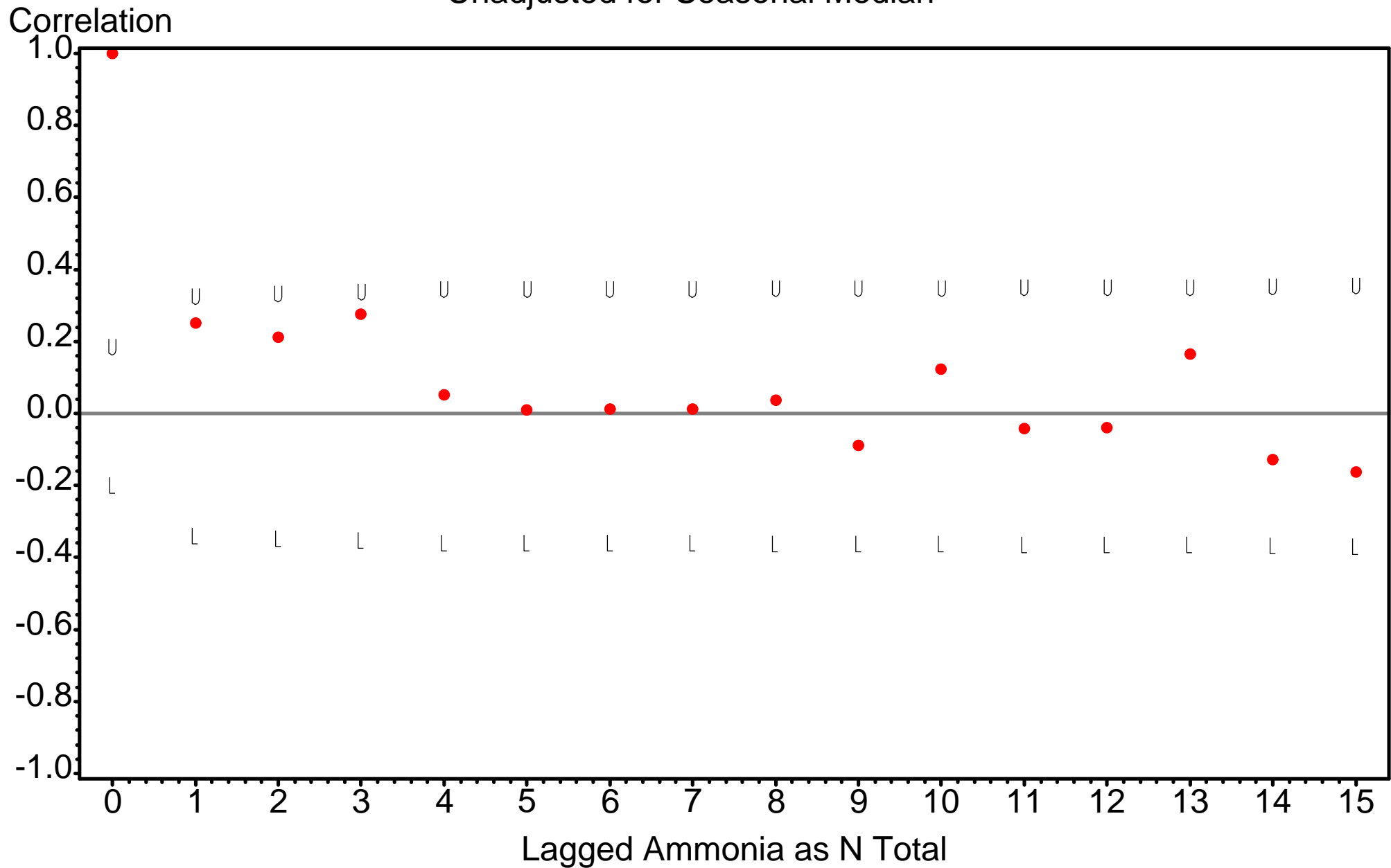
Pine Island Sound Trends Appendix - Display 1314
Autocorrelation Statistics for Surface Ammonia as N Total in Pine Island Sound

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.250	0.167	0.333	-0.333
2	0.213	0.170	0.340	-0.340
3	0.276	0.173	0.345	-0.345
4	0.051	0.177	0.353	-0.353
5	0.010	0.177	0.353	-0.353
6	0.012	0.177	0.353	-0.353
7	0.012	0.177	0.353	-0.353
8	0.038	0.177	0.354	-0.354
9	-0.088	0.177	0.354	-0.354
10	0.123	0.177	0.354	-0.354
11	-0.042	0.178	0.356	-0.356
12	-0.039	0.178	0.356	-0.356
13	0.164	0.178	0.356	-0.356
14	-0.129	0.180	0.359	-0.359
15	-0.162	0.180	0.361	-0.361

Pine Island Sound Trends Appendix - Display 1315

Correlogram for Surface Ammonia as N Total in Pine Island Sound

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1316
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.308	0	0	-.002

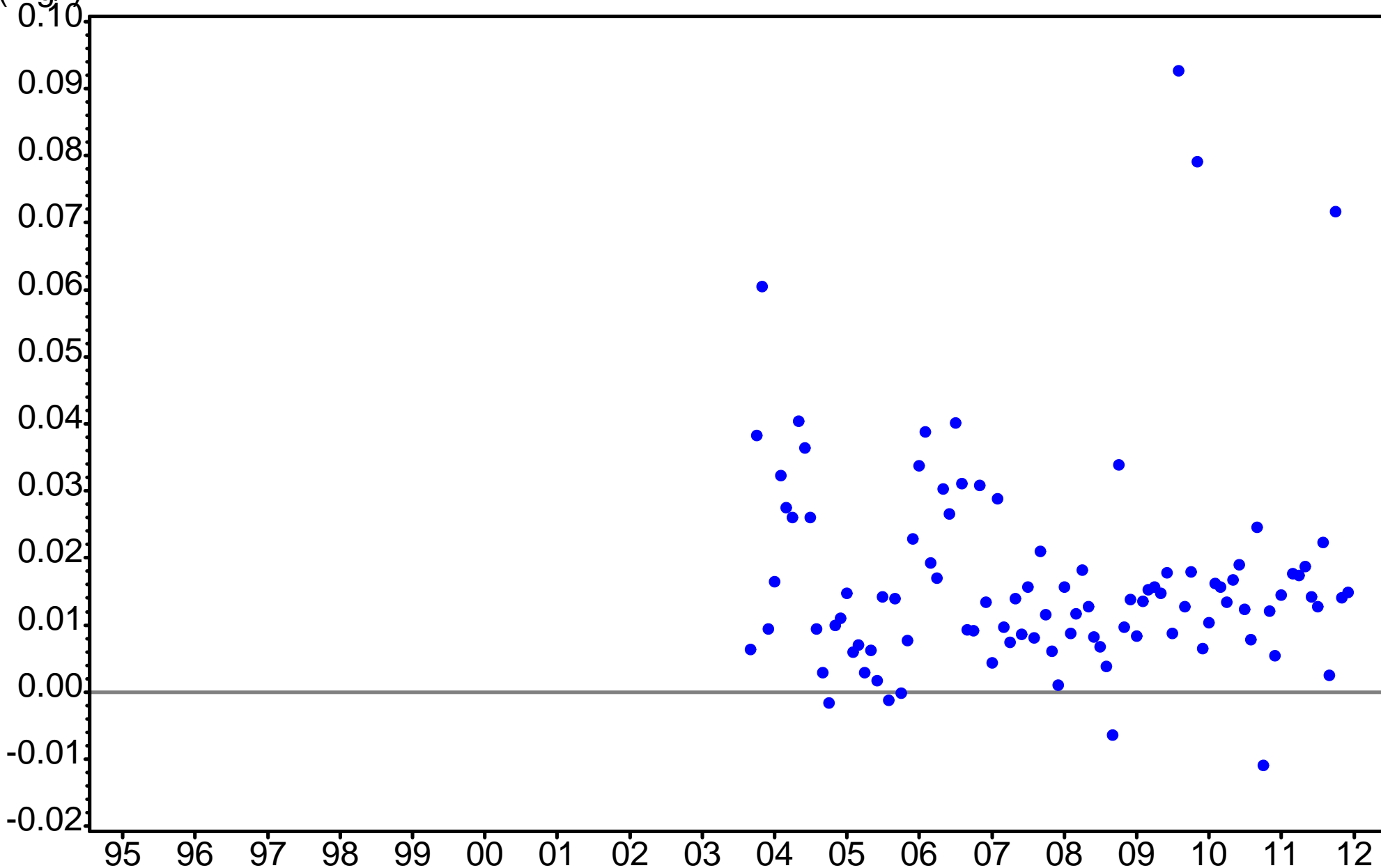
Pine Island Sound Trends Appendix - Display 1317
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.33518	.000031870	0.030626	-.002

Pine Island Sound Trends Appendix - Display 1318

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



Zero Reference Line Shown

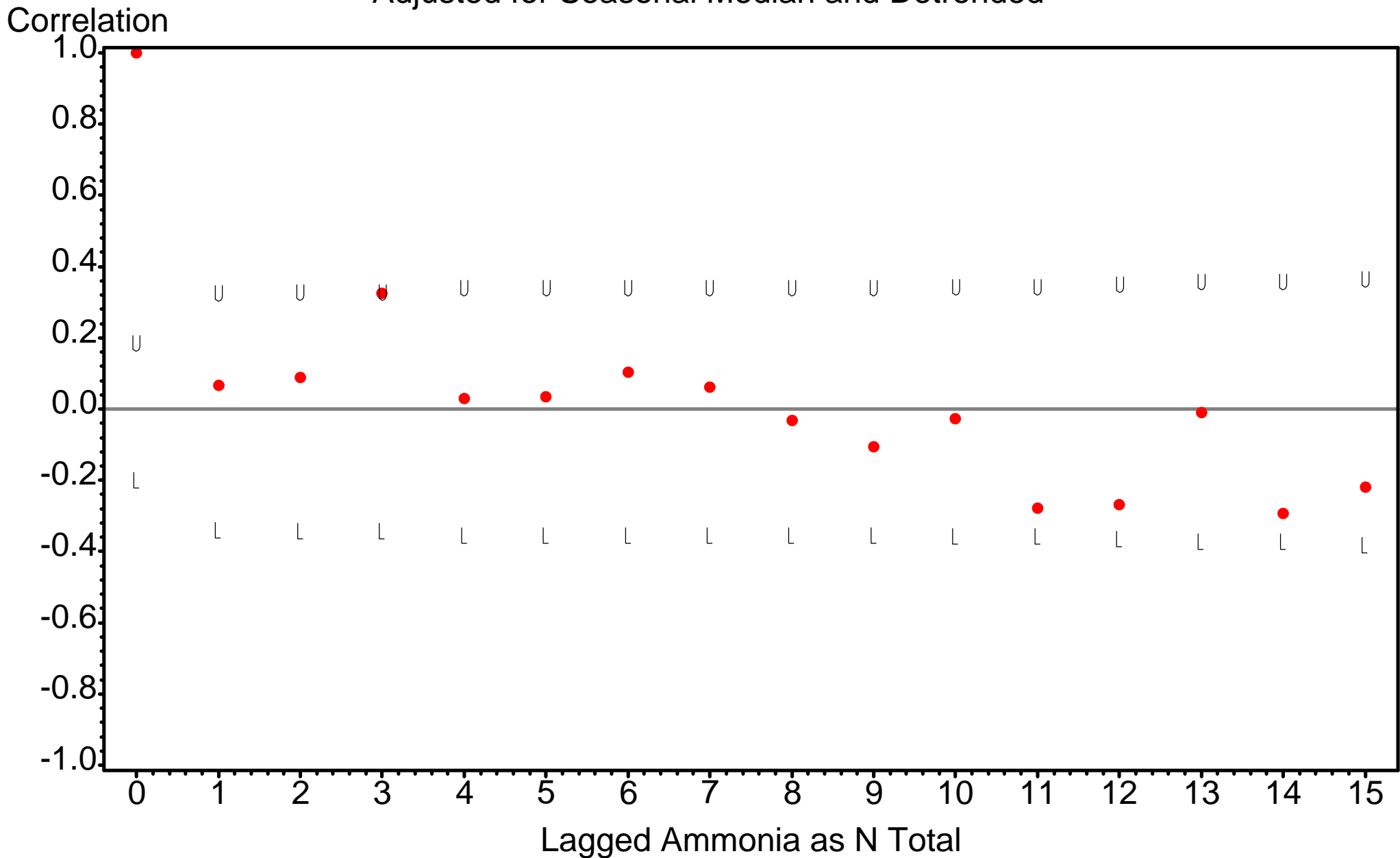
Pine Island Sound Trends Appendix - Display 1319
Autocorrelation Statistics for Surface Ammonia as N Total in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.066	0.167	0.333	-0.333
2	0.089	0.167	0.334	-0.334
3	0.324	0.167	0.335	-0.335
4	0.029	0.173	0.346	-0.346
5	0.034	0.173	0.346	-0.346
6	0.103	0.173	0.346	-0.346
7	0.062	0.174	0.347	-0.347
8	-0.031	0.174	0.348	-0.348
9	-0.107	0.174	0.348	-0.348
10	-0.027	0.175	0.349	-0.349
11	-0.277	0.175	0.349	-0.349
12	-0.269	0.179	0.357	-0.357
13	-0.011	0.182	0.365	-0.365
14	-0.294	0.182	0.365	-0.365
15	-0.218	0.187	0.373	-0.373

Pine Island Sound Trends Appendix - Display 1320

Correlogram for Surface Ammonia as N Total in Pine Island Sound

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

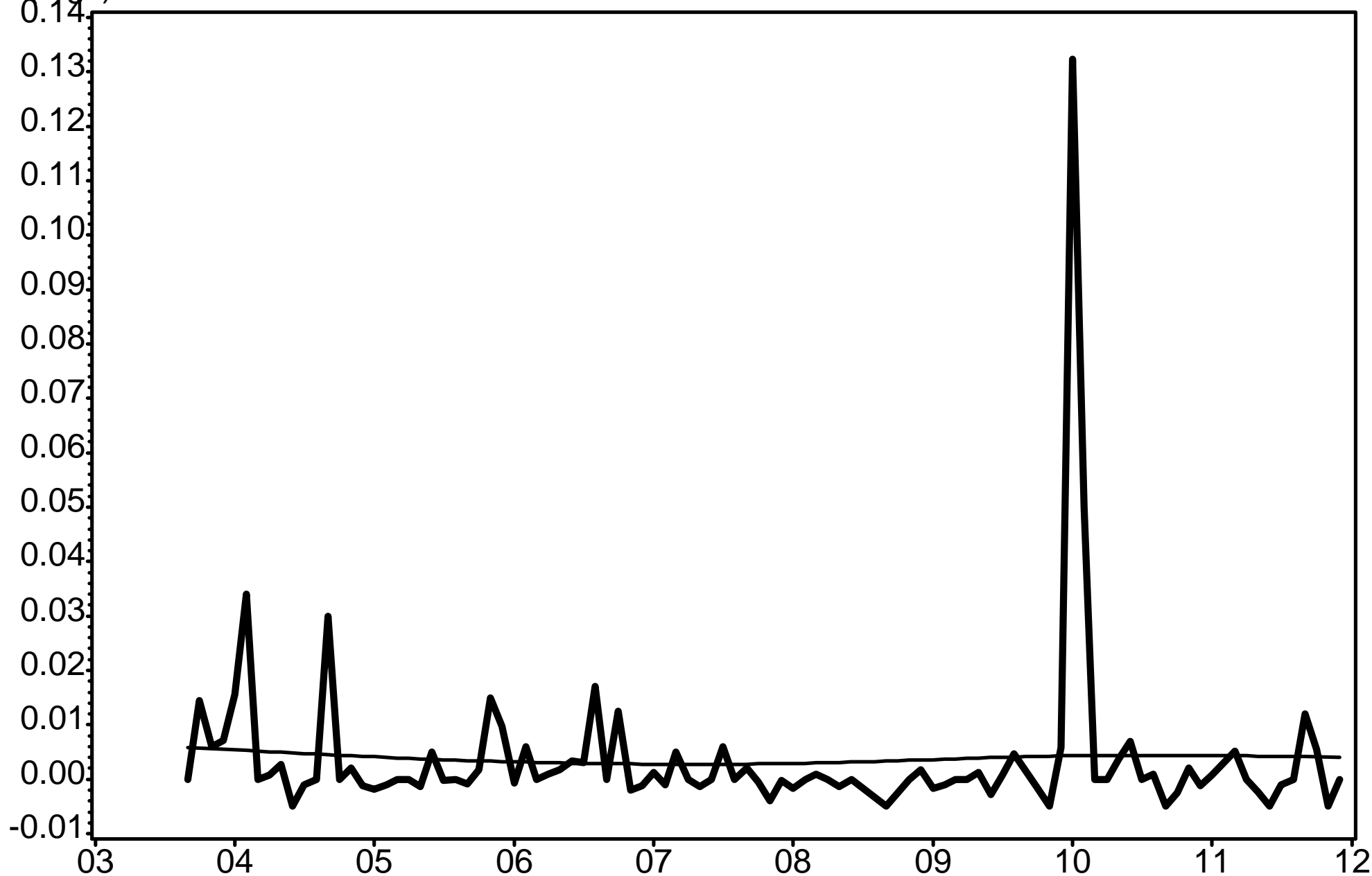
Pine Island Sound Trends Appendix - Display 1322

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

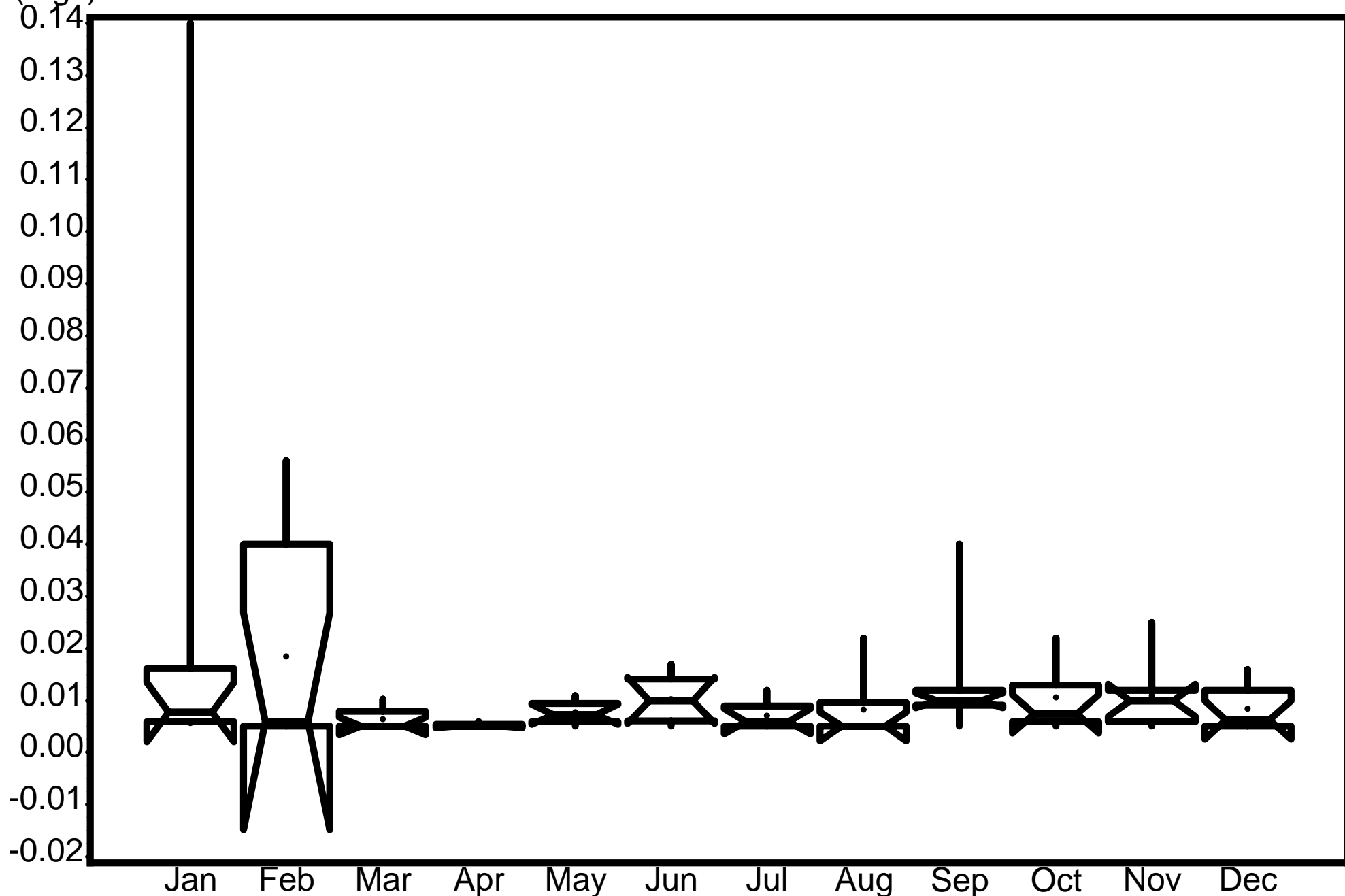


Pine Island Sound Trends Appendix - Display 1323

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

NO23_mgl
(mg/l)



Pine Island Sound Trends Appendix - Display 1324

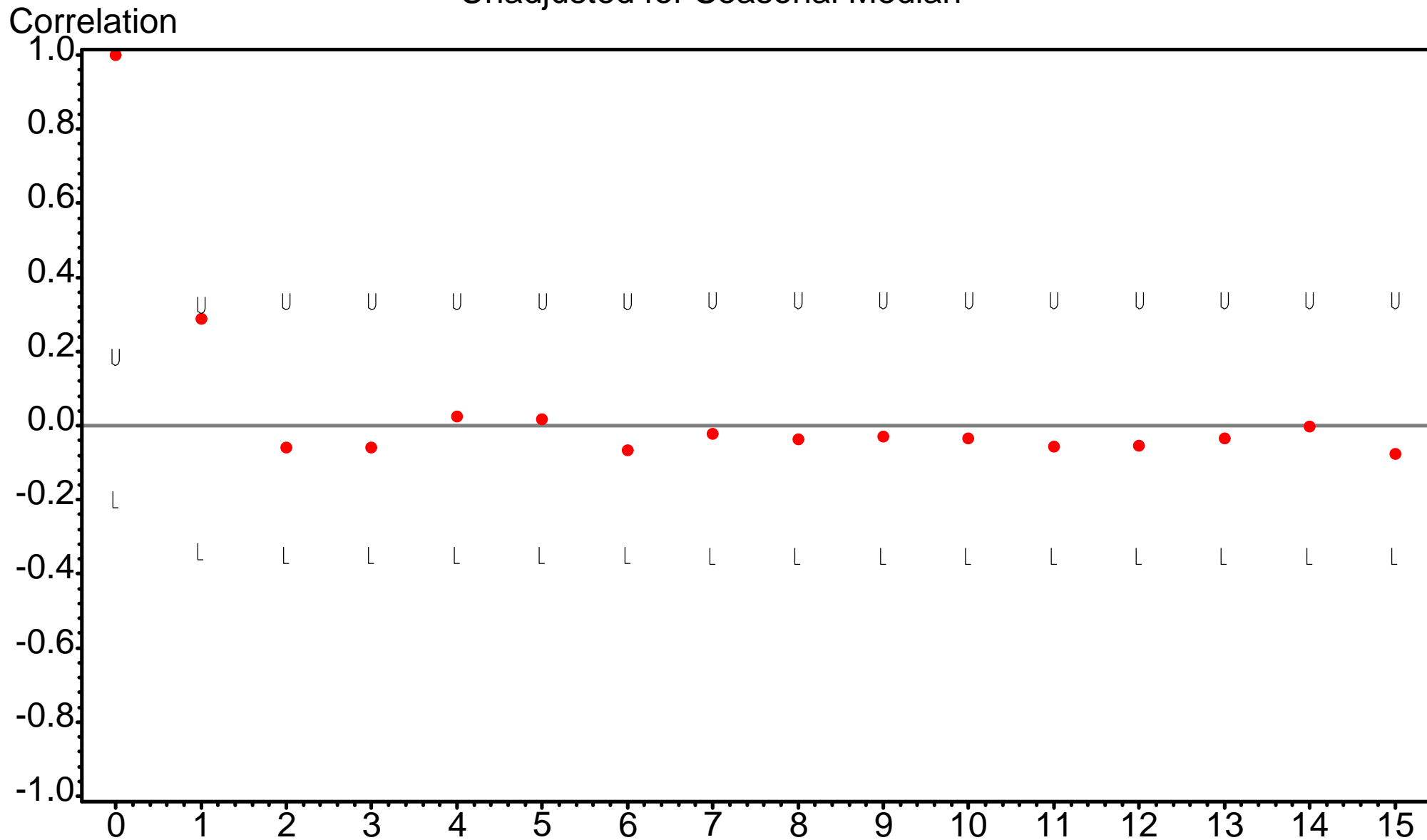
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.288	0.167	0.333	-0.333
2	-0.058	0.171	0.342	-0.342
3	-0.058	0.171	0.343	-0.343
4	0.024	0.172	0.343	-0.343
5	0.018	0.172	0.343	-0.343
6	-0.067	0.172	0.343	-0.343
7	-0.022	0.172	0.344	-0.344
8	-0.036	0.172	0.344	-0.344
9	-0.030	0.172	0.344	-0.344
10	-0.035	0.172	0.344	-0.344
11	-0.056	0.172	0.344	-0.344
12	-0.055	0.172	0.345	-0.345
13	-0.035	0.172	0.345	-0.345
14	-0.002	0.172	0.345	-0.345
15	-0.076	0.172	0.345	-0.345

Pine Island Sound Trends Appendix - Display 1325

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1326
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Unadjusted for Seasonal Medians

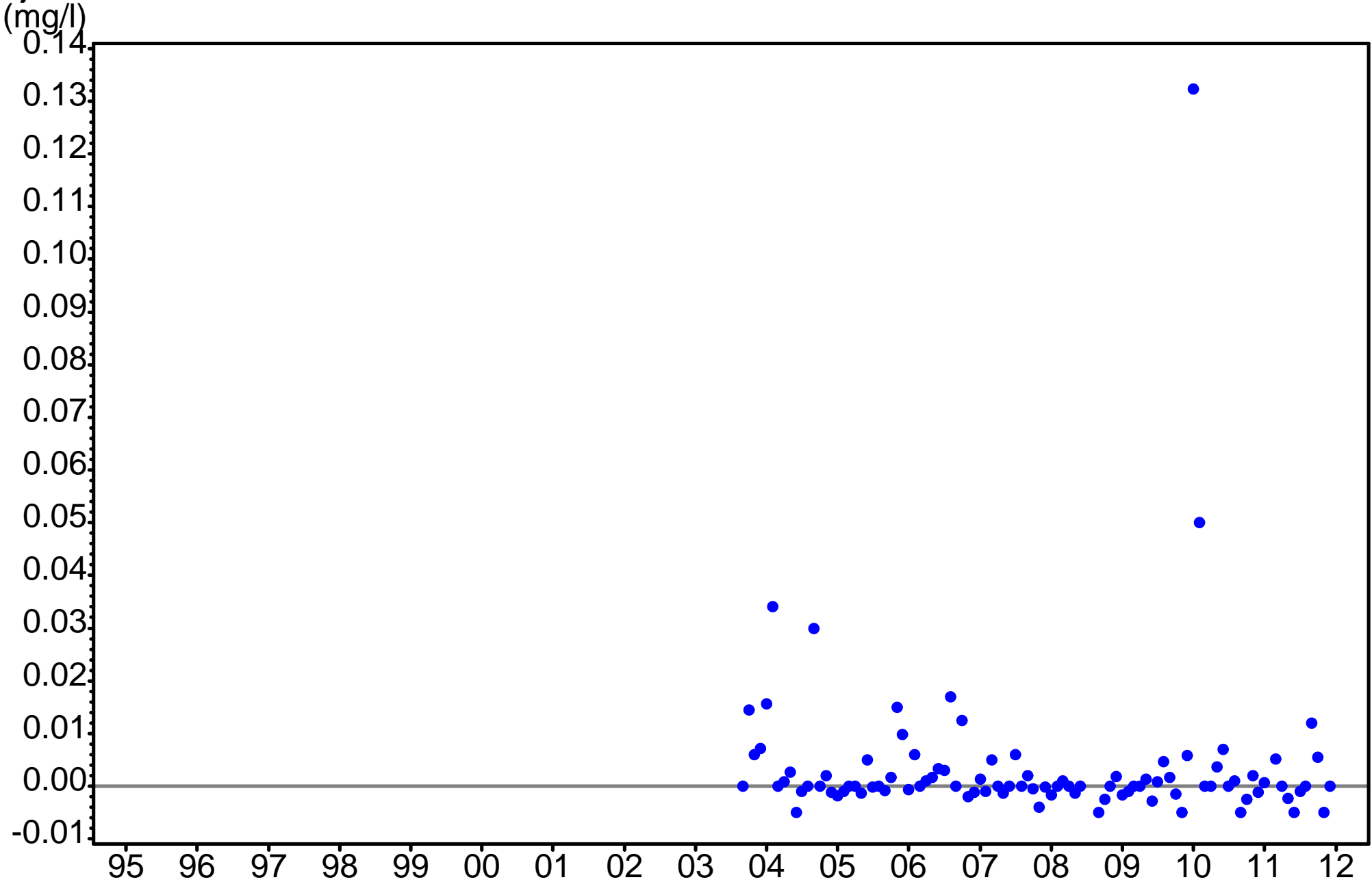
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.121	0.074	0.074	0

Pine Island Sound Trends Appendix - Display 1327
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13545	0.091783	0.053944	0

Pine Island Sound Trends Appendix - Display 1328

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted
Pine Island Sound



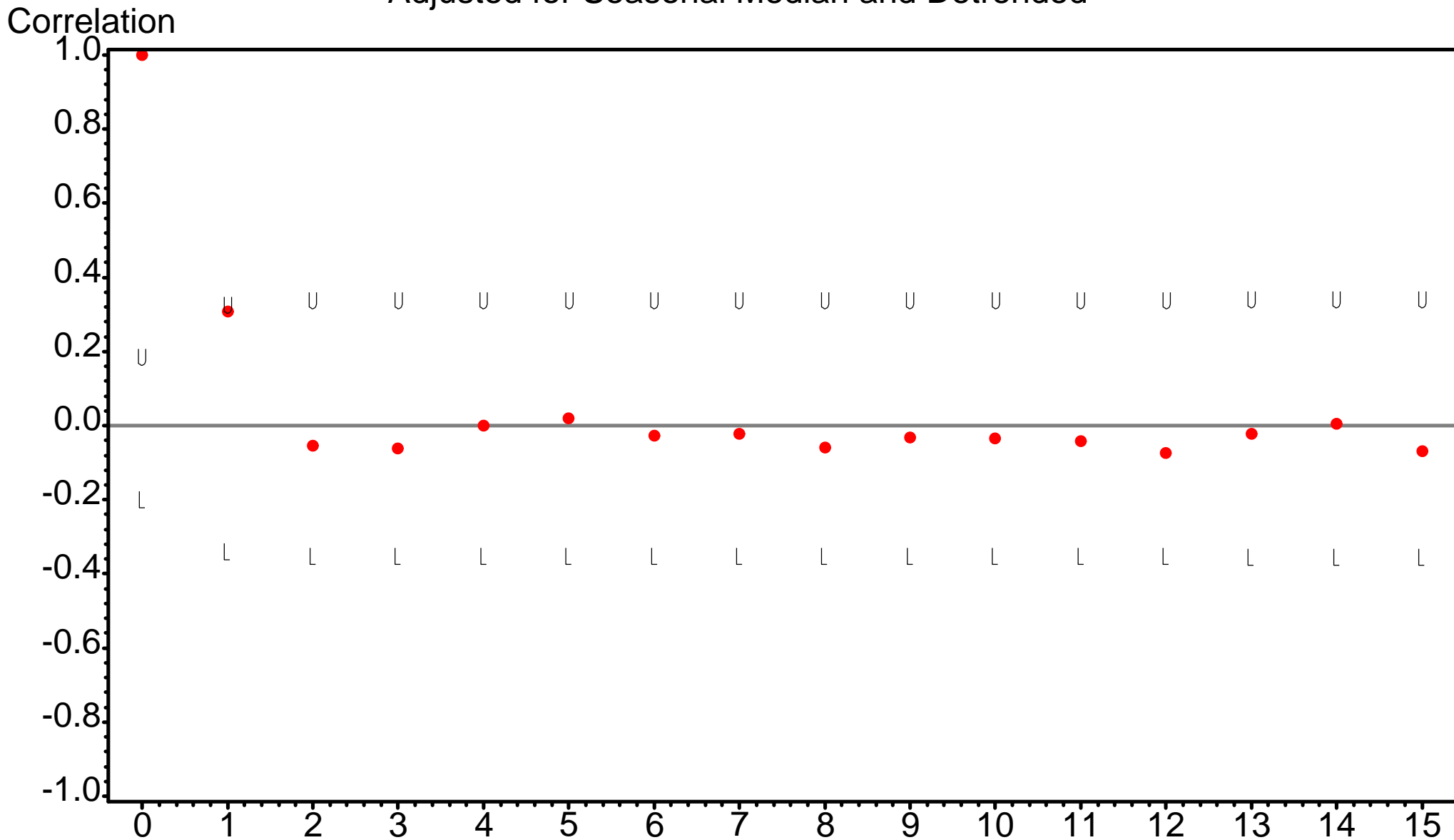
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1329
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.308	0.167	0.333	-0.333
2	-0.053	0.172	0.344	-0.344
3	-0.061	0.172	0.344	-0.344
4	-0.001	0.172	0.344	-0.344
5	0.019	0.172	0.344	-0.344
6	-0.028	0.172	0.344	-0.344
7	-0.023	0.172	0.345	-0.345
8	-0.059	0.172	0.345	-0.345
9	-0.031	0.172	0.345	-0.345
10	-0.034	0.173	0.345	-0.345
11	-0.043	0.173	0.345	-0.345
12	-0.073	0.173	0.345	-0.345
13	-0.022	0.173	0.346	-0.346
14	0.005	0.173	0.346	-0.346
15	-0.069	0.173	0.346	-0.346

Pine Island Sound Trends Appendix - Display 1330

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound Adjusted for Seasonal Median and Detrended



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

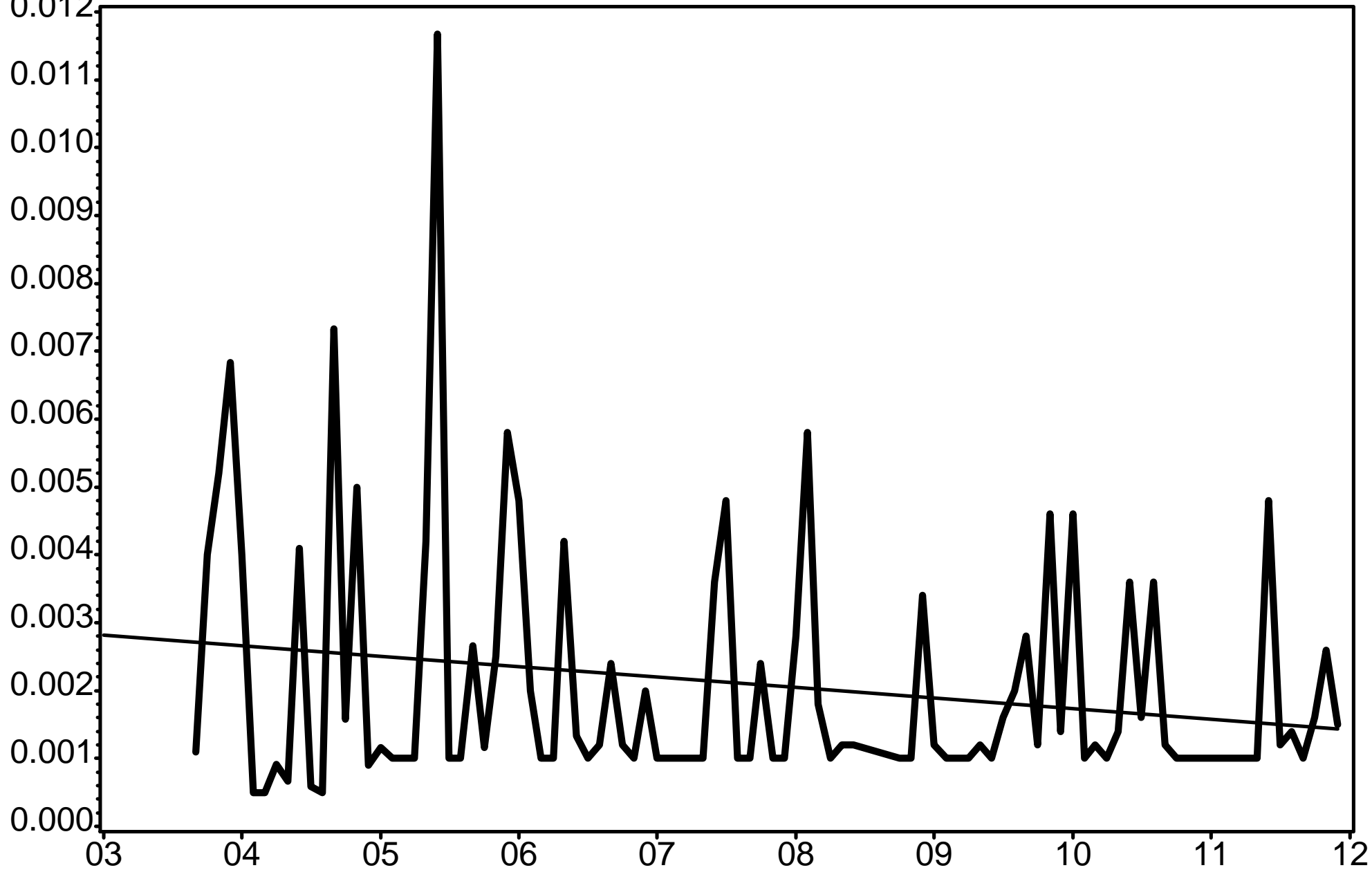
Pine Island Sound Trends Appendix - Display 1331

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Pine Island Sound

Not Adjusted for Seasonal Medians

NO2_mgl
(mg/l)



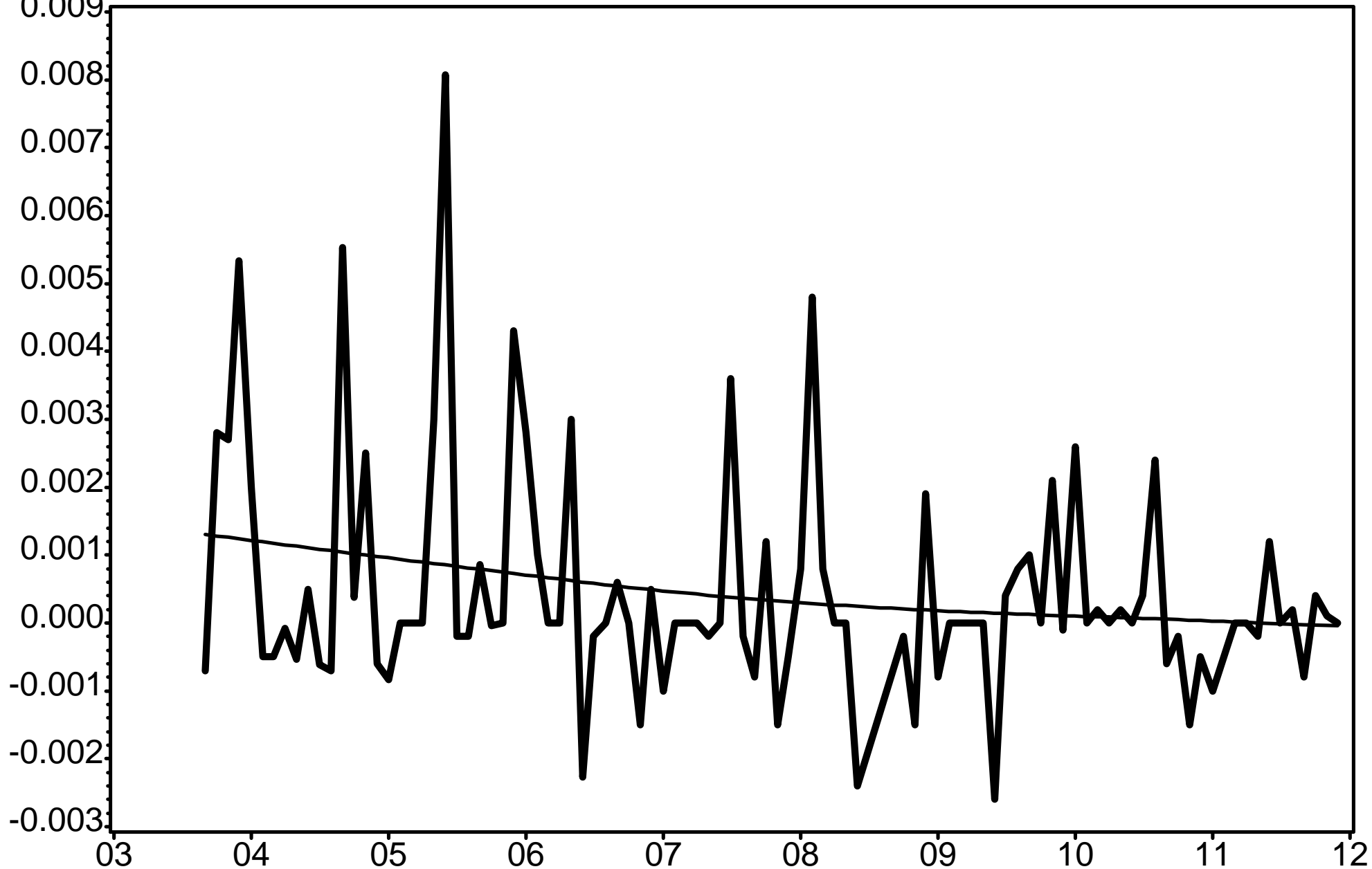
Pine Island Sound Trends Appendix - Display 1332

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
NO2_mgl
(mg/l)

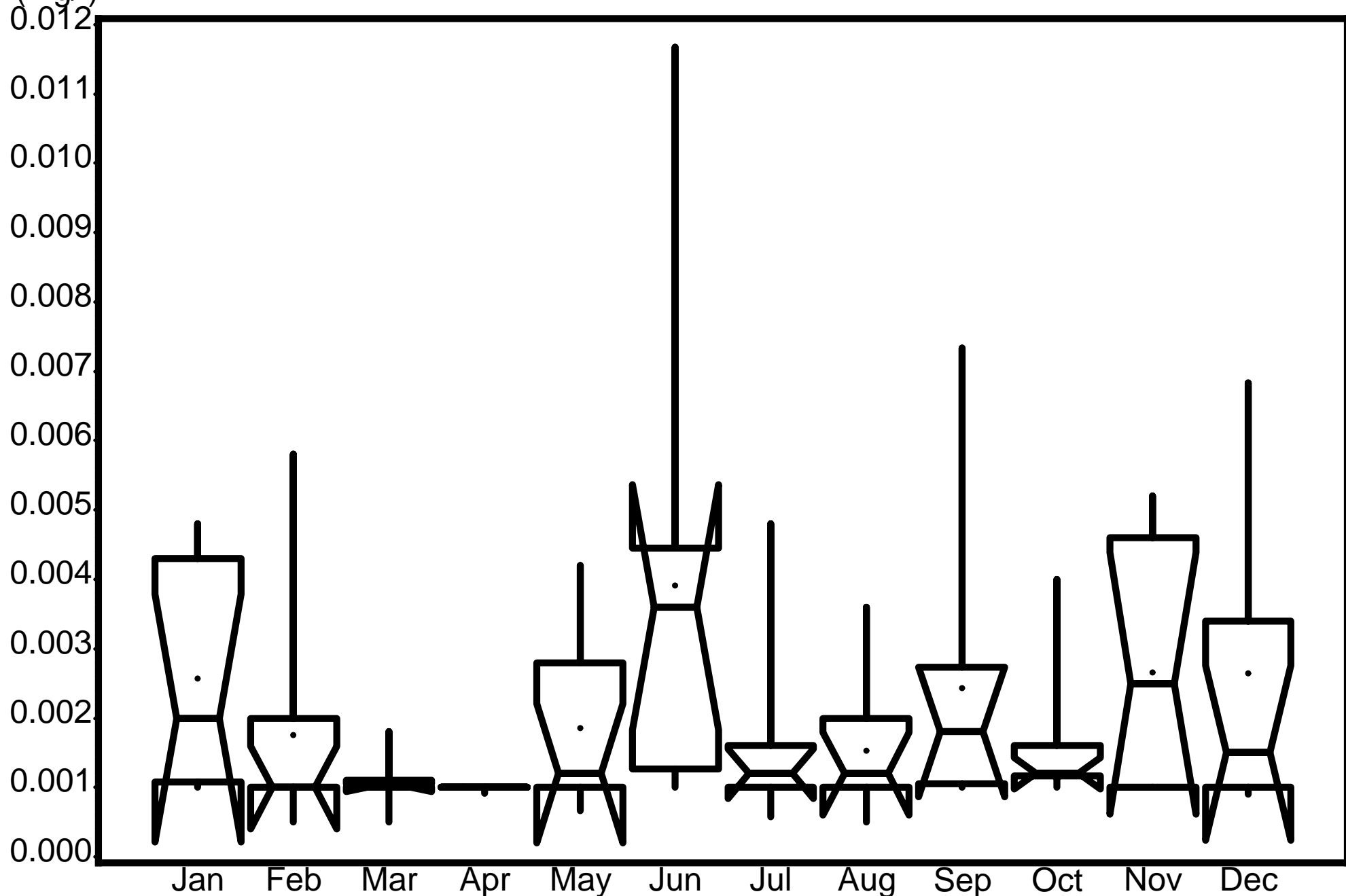


Pine Island Sound Trends Appendix - Display 1333

Seasonal Univariate Statistics

for Surface Nitrite (TOTAL AS N) in Pine Island Sound

NO2_mgl
(mg/l)



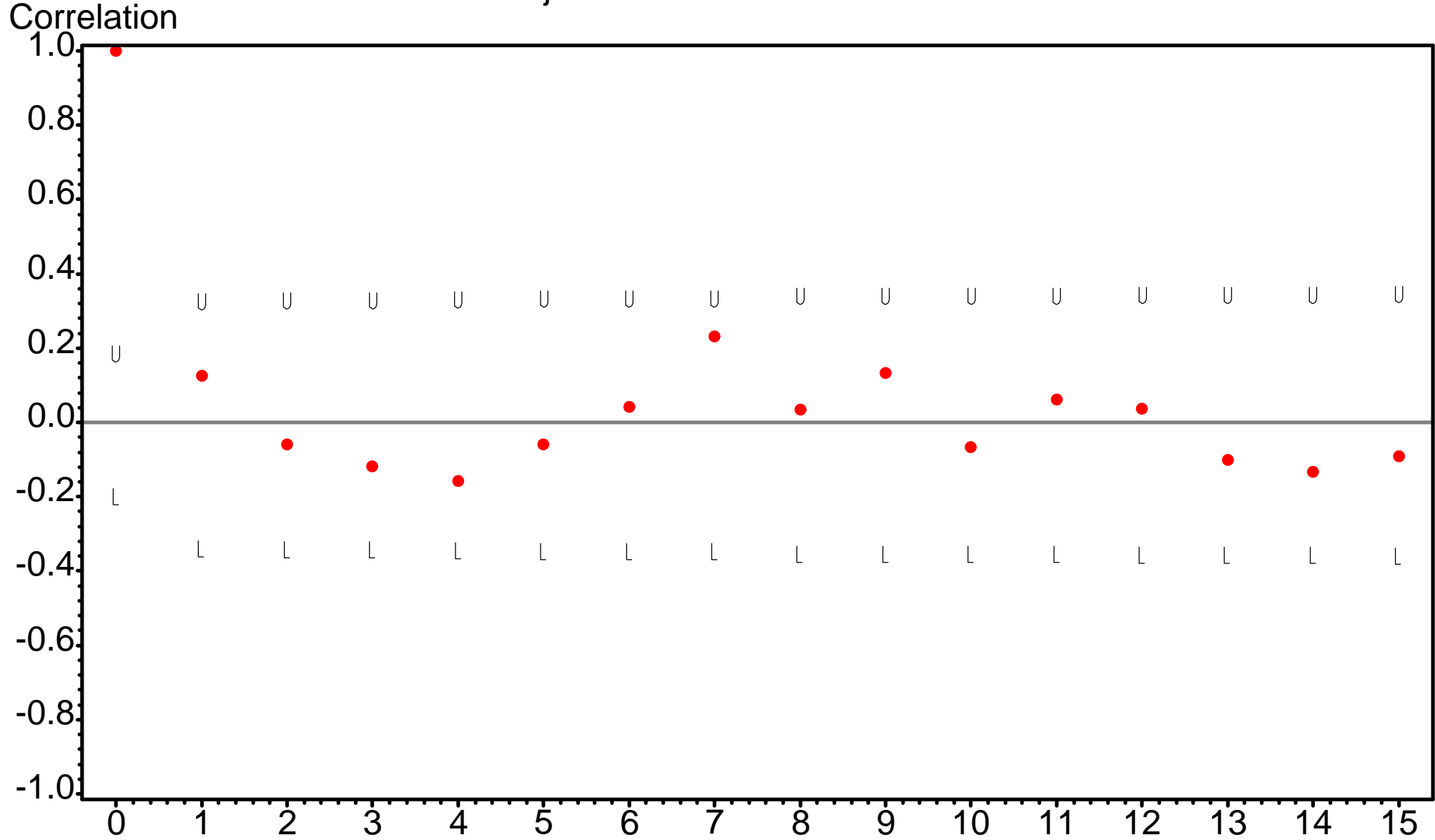
Pine Island Sound Trends Appendix - Display 1334
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Pine Island Sound

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.125	0.167	0.333	-0.333
2	-0.060	0.168	0.335	-0.335
3	-0.118	0.168	0.335	-0.335
4	-0.157	0.168	0.337	-0.337
5	-0.059	0.170	0.340	-0.340
6	0.041	0.170	0.340	-0.340
7	0.231	0.170	0.340	-0.340
8	0.035	0.173	0.346	-0.346
9	0.133	0.173	0.346	-0.346
10	-0.066	0.174	0.348	-0.348
11	0.061	0.174	0.348	-0.348
12	0.036	0.174	0.349	-0.349
13	-0.102	0.175	0.349	-0.349
14	-0.132	0.175	0.350	-0.350
15	-0.091	0.176	0.352	-0.352

Pine Island Sound Trends Appendix - Display 1335

Correlogram for Surface Nitrite (TOTAL AS N) in Pine Island Sound

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1336
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.079	0.193	0.193	0

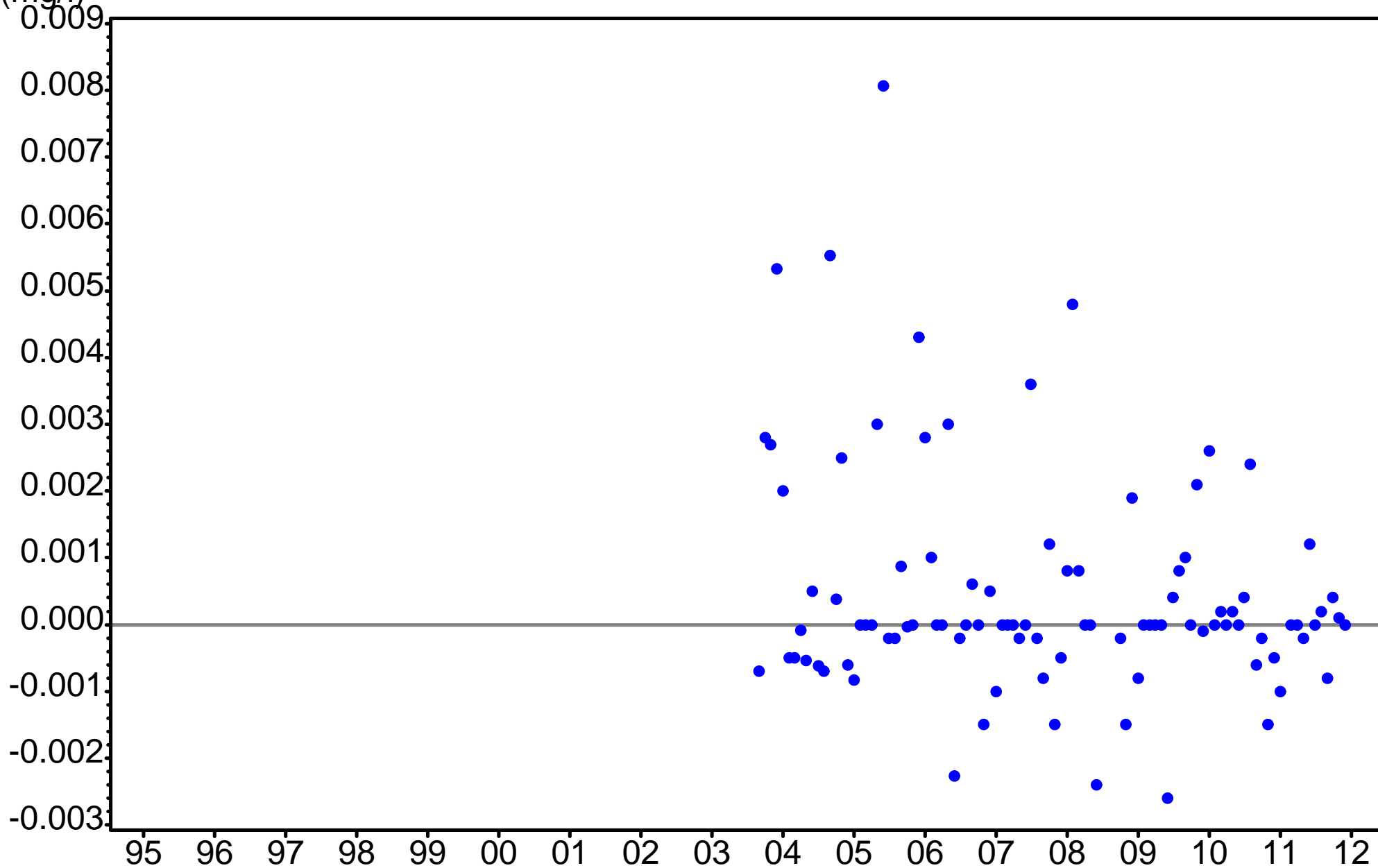
Pine Island Sound Trends Appendix - Display 1337
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.073746	0.31520	0.28201	0

Pine Island Sound Trends Appendix - Display 1338

Time Series Plot of Surface Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



Zero Reference Line Shown

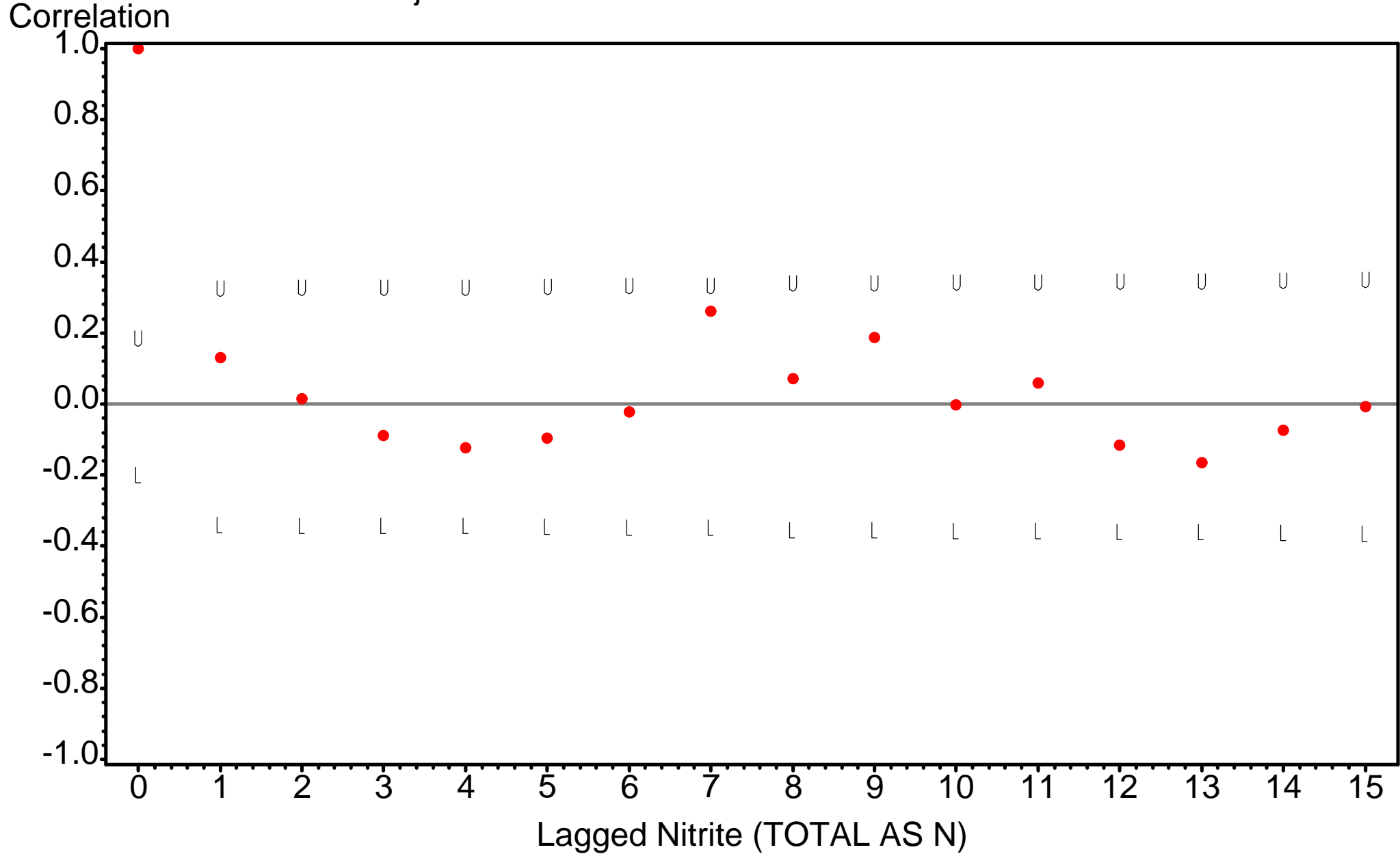
Pine Island Sound Trends Appendix - Display 1339
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.130	0.167	0.333	-0.333
2	0.016	0.168	0.335	-0.335
3	-0.088	0.168	0.335	-0.335
4	-0.122	0.168	0.336	-0.336
5	-0.096	0.169	0.338	-0.338
6	-0.022	0.169	0.339	-0.339
7	0.261	0.169	0.339	-0.339
8	0.072	0.173	0.346	-0.346
9	0.188	0.173	0.347	-0.347
10	-0.002	0.175	0.350	-0.350
11	0.058	0.175	0.350	-0.350
12	-0.115	0.175	0.351	-0.351
13	-0.166	0.176	0.352	-0.352
14	-0.075	0.178	0.355	-0.355
15	-0.008	0.178	0.356	-0.356

Pine Island Sound Trends Appendix - Display 1340

Correlogram for Surface Nitrite (TOTAL AS N) in Pine Island Sound

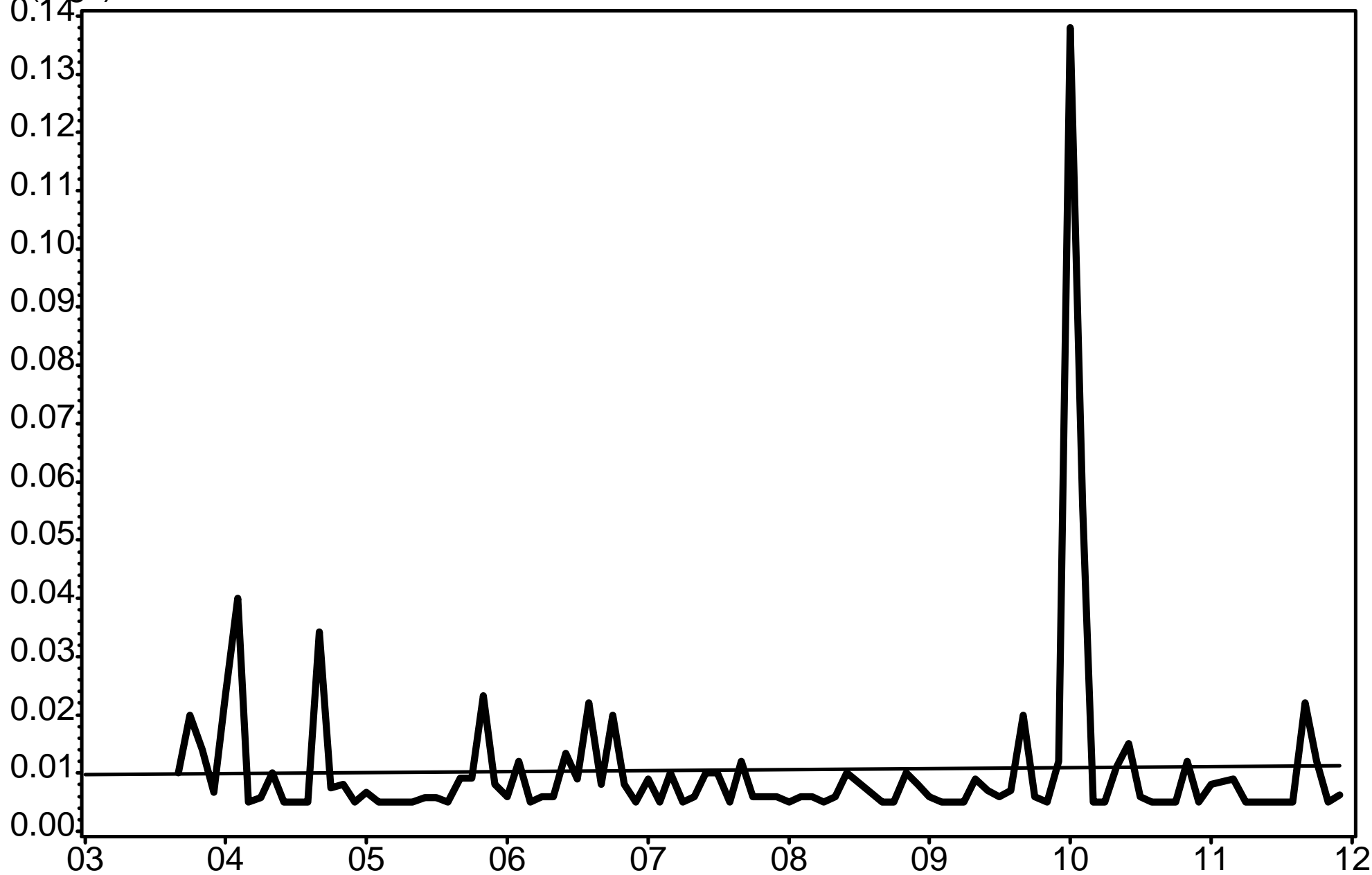
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1341
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)



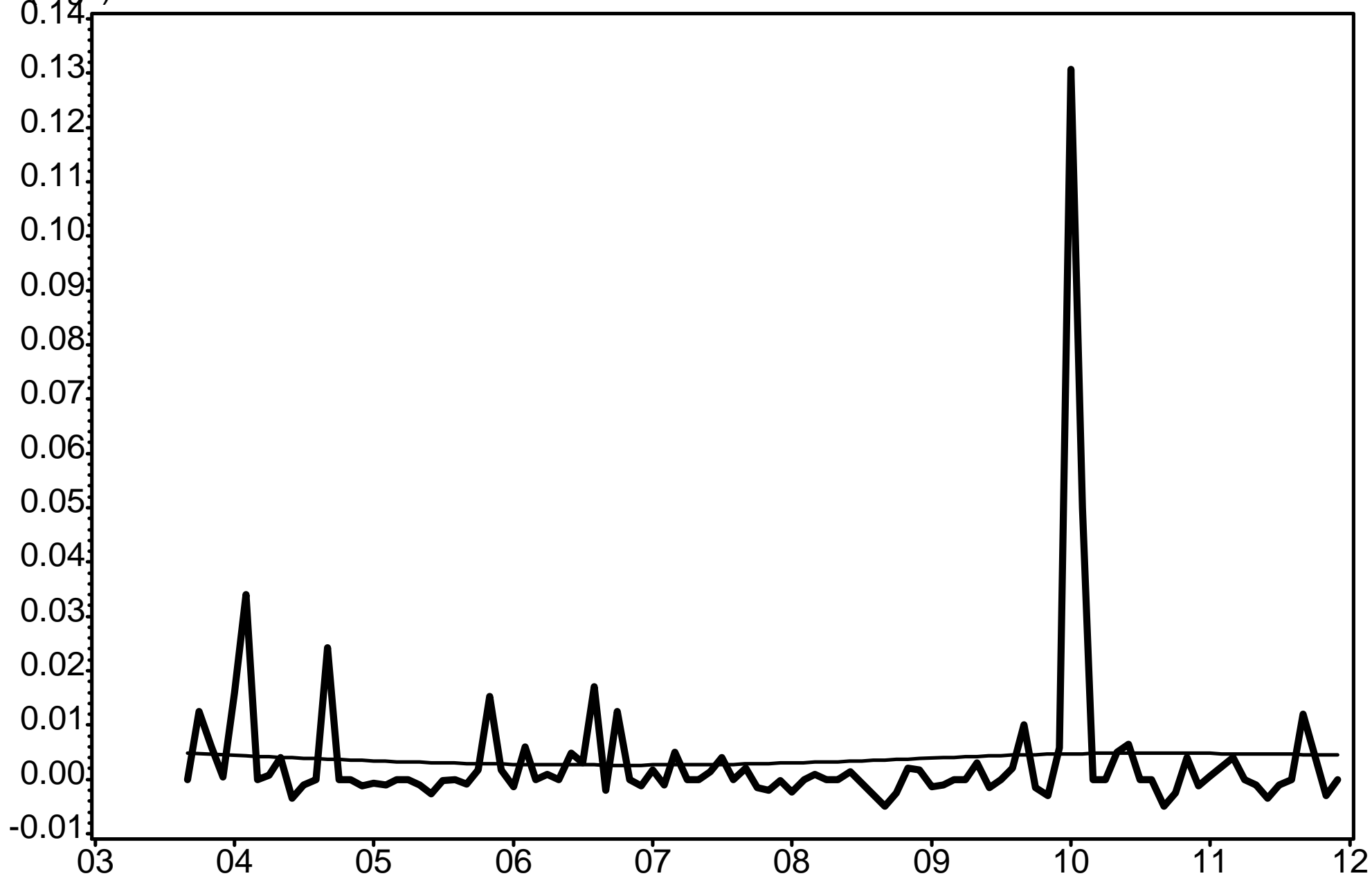
Pine Island Sound Trends Appendix - Display 1342

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
NO3_mgl
(mg/l)

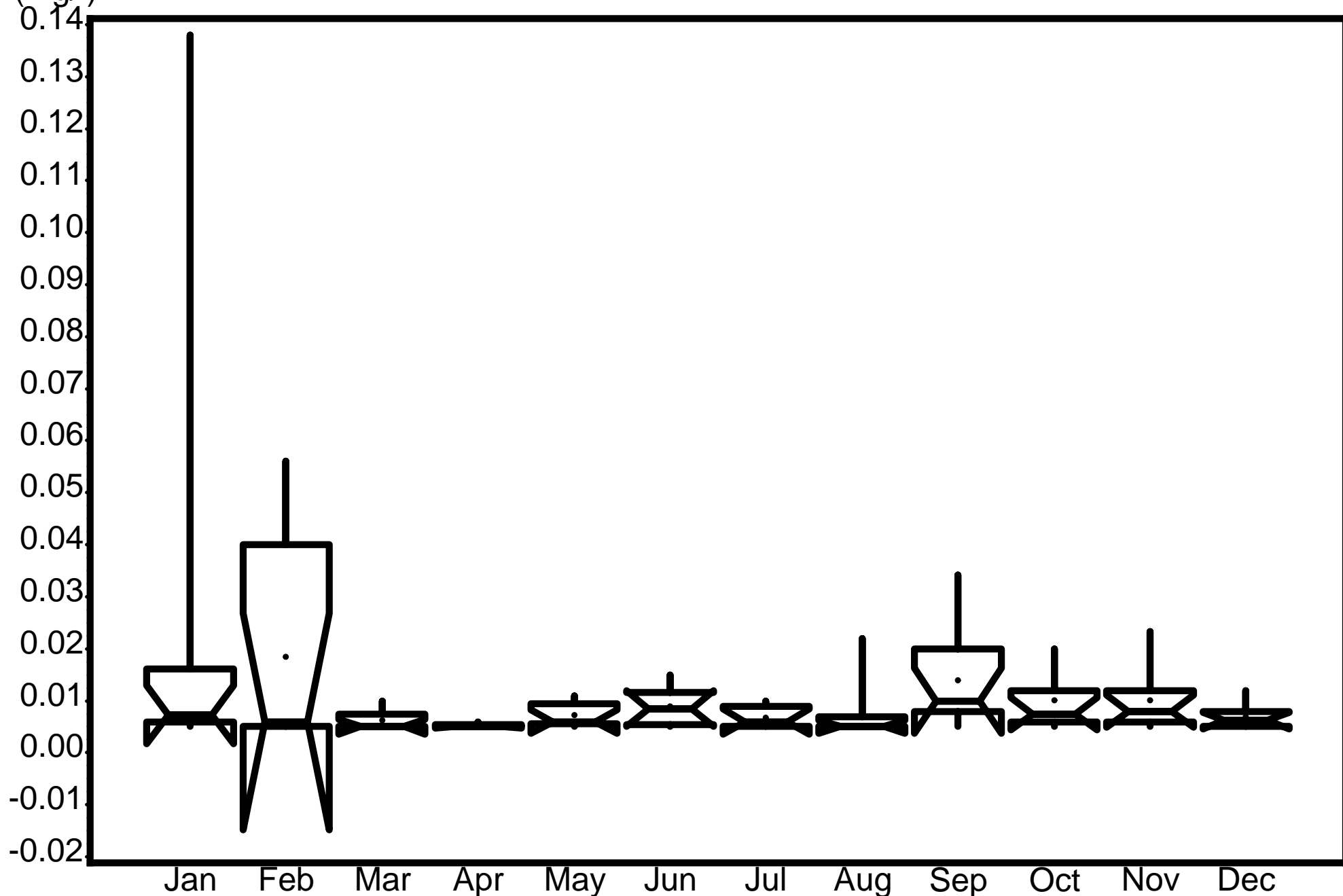


Pine Island Sound Trends Appendix - Display 1343

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

NO3_mgl
(mg/l)



Pine Island Sound Trends Appendix - Display 1344

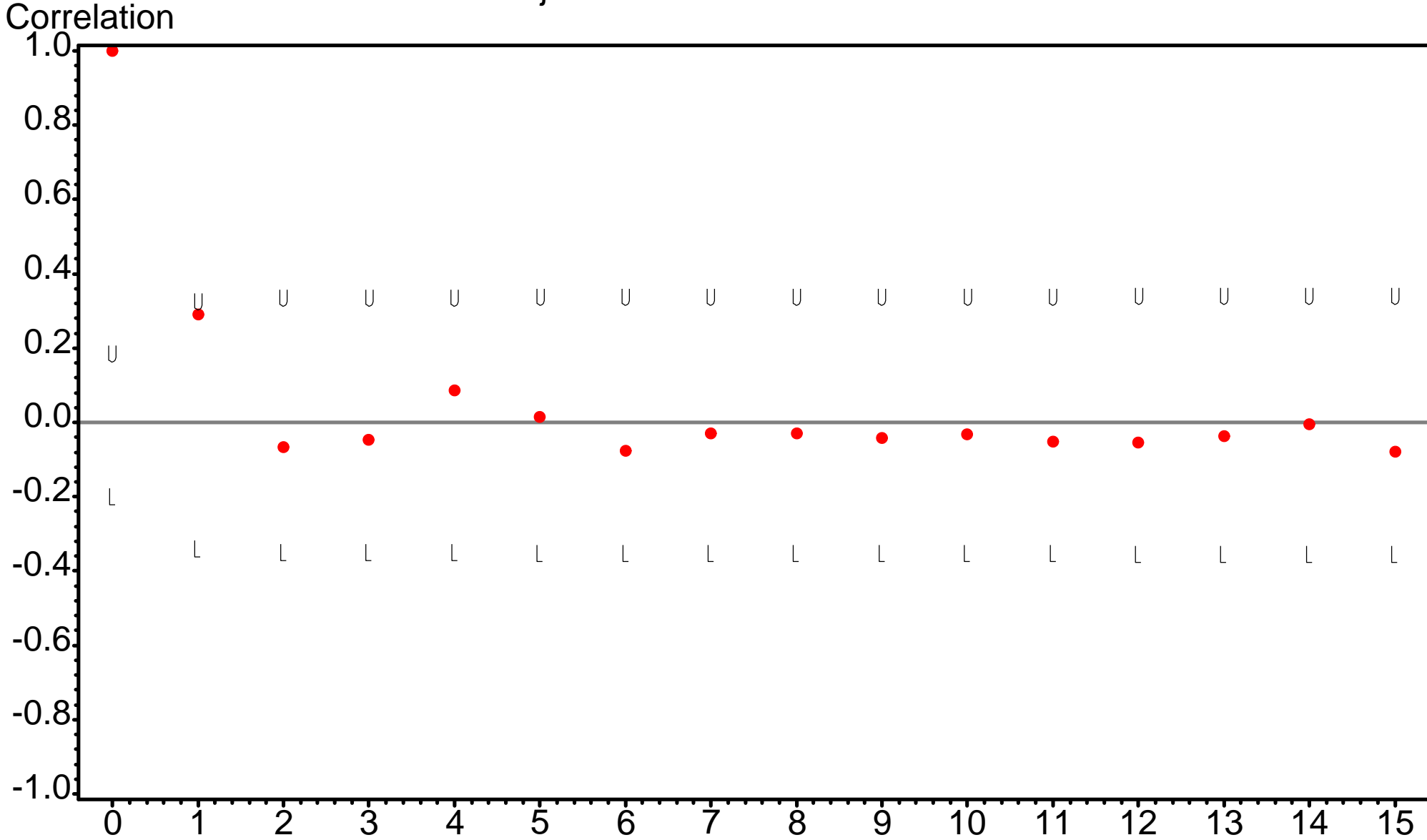
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.291	0.167	0.333	-0.333
2	-0.066	0.171	0.343	-0.343
3	-0.046	0.172	0.343	-0.343
4	0.086	0.172	0.343	-0.343
5	0.016	0.172	0.344	-0.344
6	-0.076	0.172	0.344	-0.344
7	-0.029	0.172	0.345	-0.345
8	-0.030	0.172	0.345	-0.345
9	-0.043	0.172	0.345	-0.345
10	-0.033	0.173	0.345	-0.345
11	-0.052	0.173	0.345	-0.345
12	-0.053	0.173	0.346	-0.346
13	-0.038	0.173	0.346	-0.346
14	-0.004	0.173	0.346	-0.346
15	-0.079	0.173	0.346	-0.346

Pine Island Sound Trends Appendix - Display 1345

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1346
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.091	0.173	0.173	0

Pine Island Sound Trends Appendix - Display 1347
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Medians

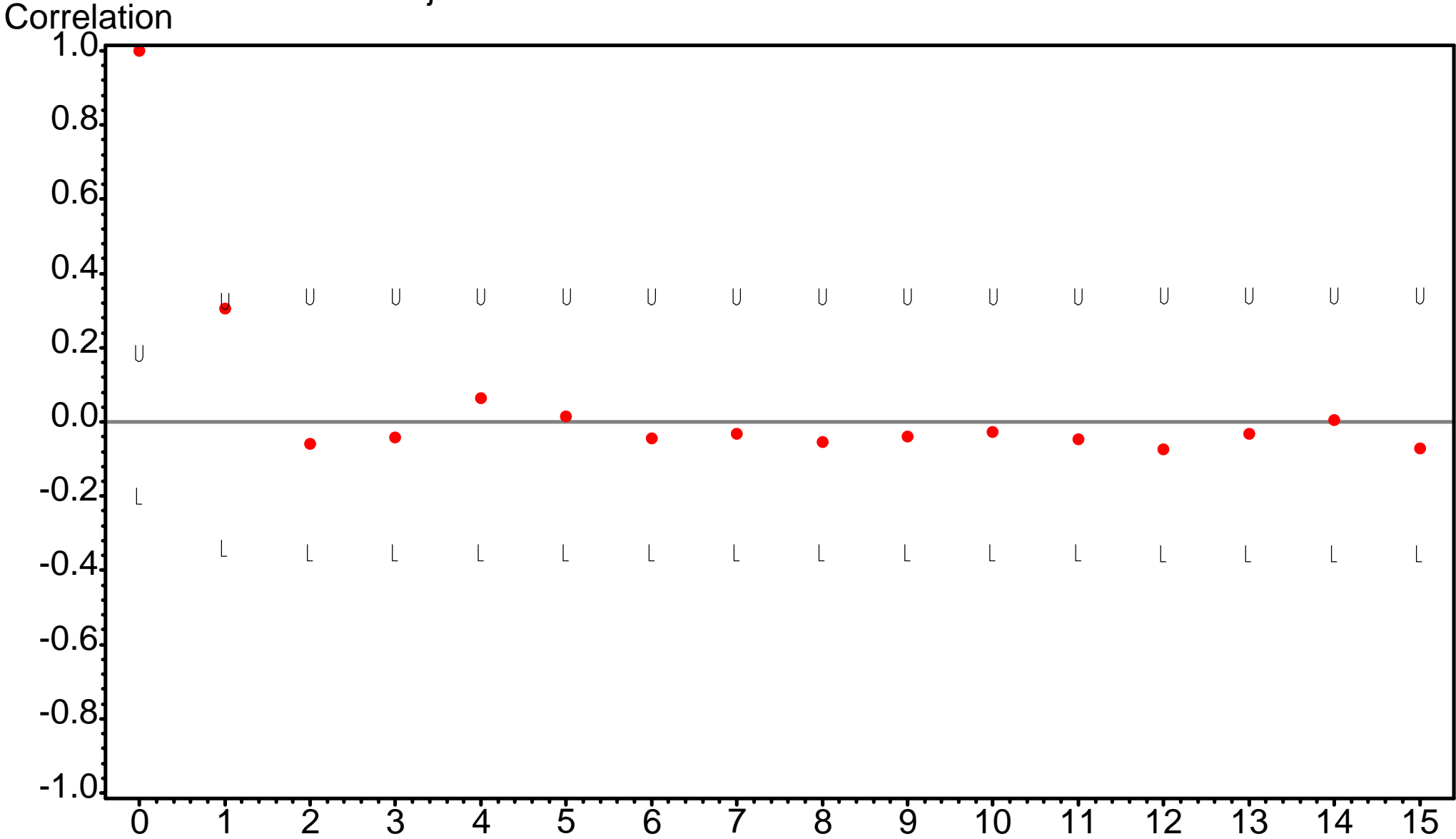
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.066282	0.41645	0.20727	0

Pine Island Sound Trends Appendix - Display 1349
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.306	0.167	0.333	-0.333
2	-0.058	0.172	0.344	-0.344
3	-0.043	0.172	0.344	-0.344
4	0.064	0.172	0.344	-0.344
5	0.015	0.172	0.345	-0.345
6	-0.045	0.172	0.345	-0.345
7	-0.032	0.172	0.345	-0.345
8	-0.053	0.172	0.345	-0.345
9	-0.040	0.173	0.345	-0.345
10	-0.027	0.173	0.345	-0.345
11	-0.046	0.173	0.345	-0.345
12	-0.074	0.173	0.346	-0.346
13	-0.031	0.173	0.346	-0.346
14	0.005	0.173	0.346	-0.346
15	-0.072	0.173	0.346	-0.346

Pine Island Sound Trends Appendix - Display 1350

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Pine Island Sound Adjusted for Seasonal Median and Detrended

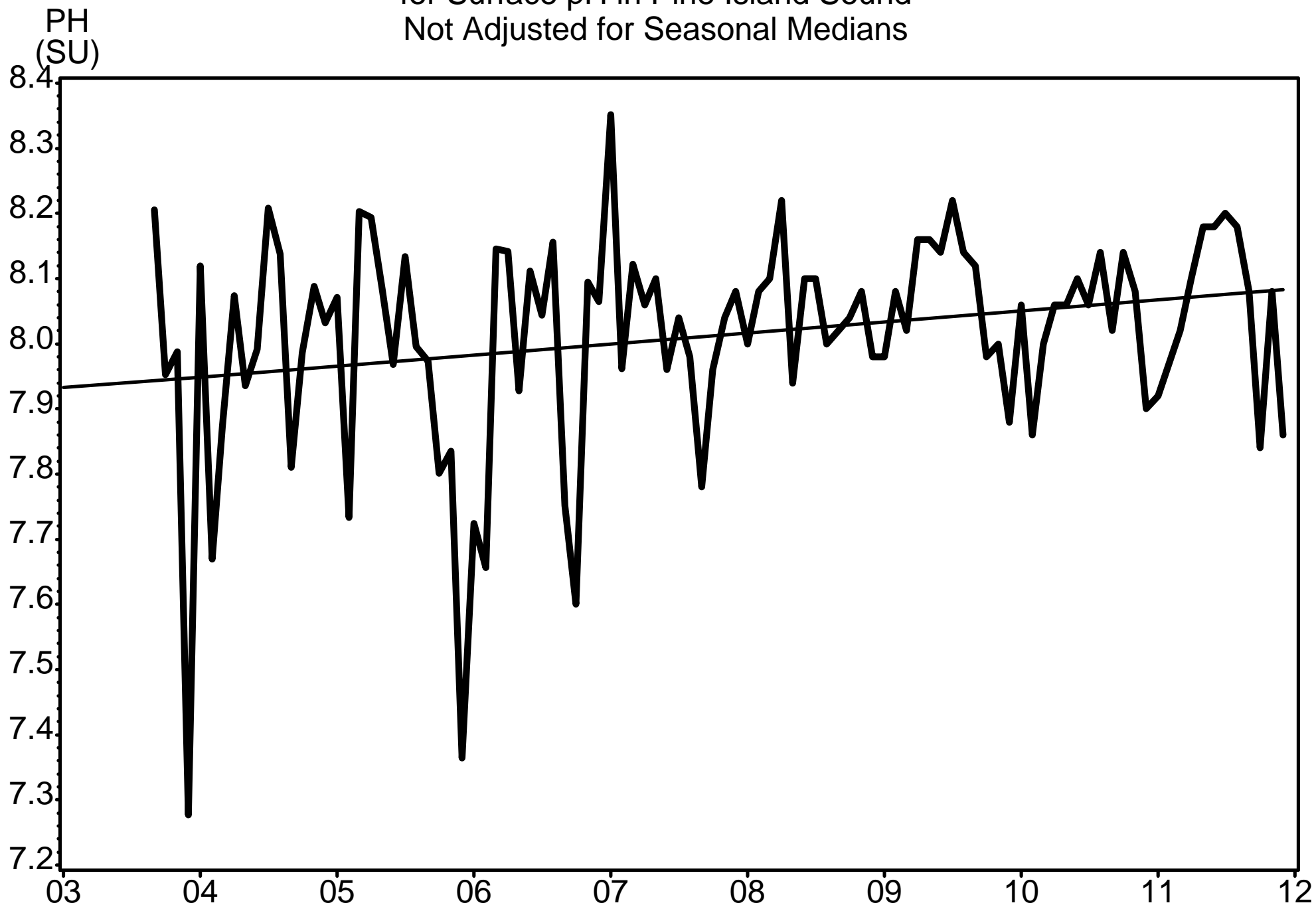


Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1351

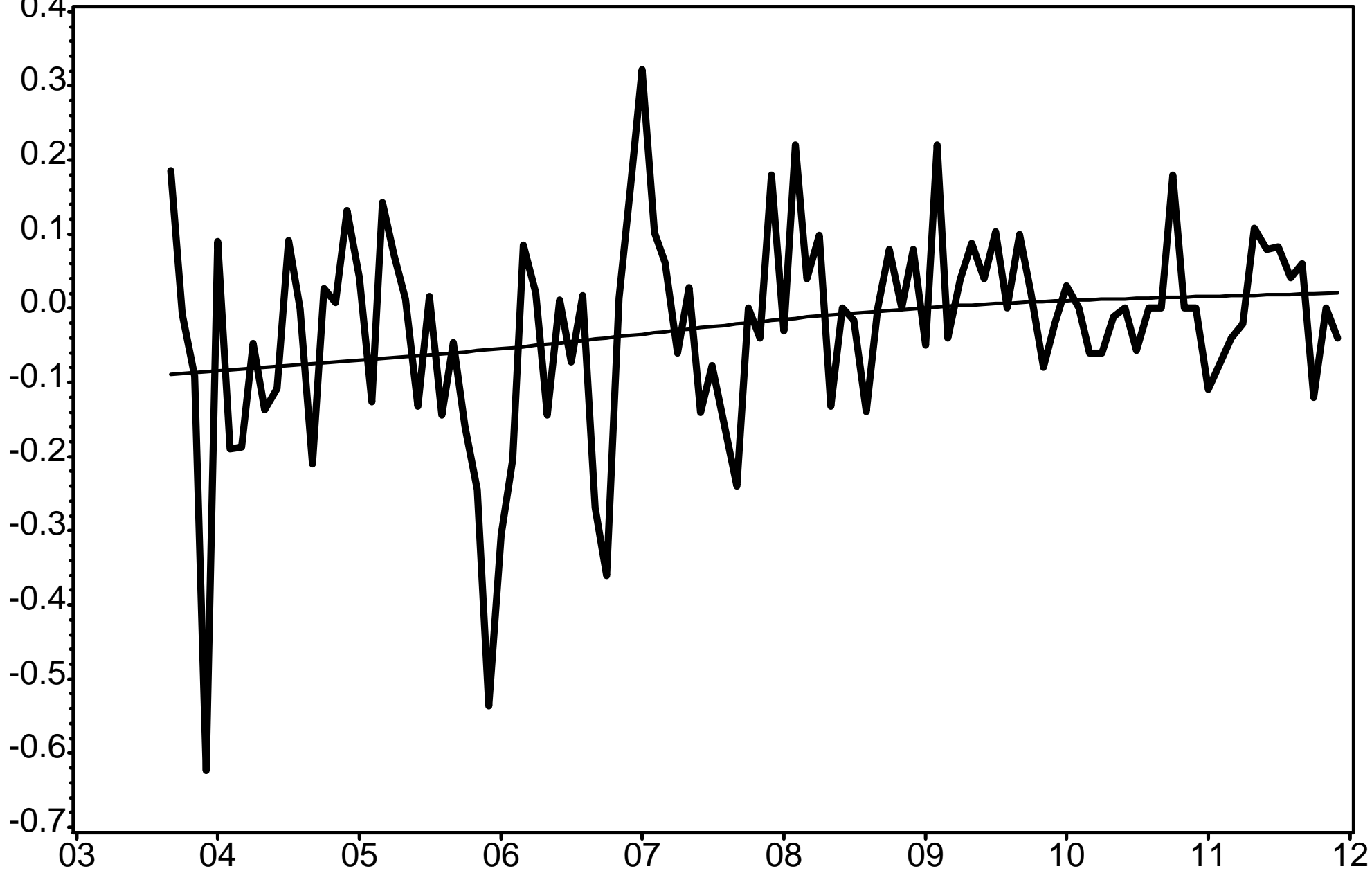
Monthly Data Time Series
for Surface pH in Pine Island Sound
Not Adjusted for Seasonal Medians



Pine Island Sound Trends Appendix - Display 1352

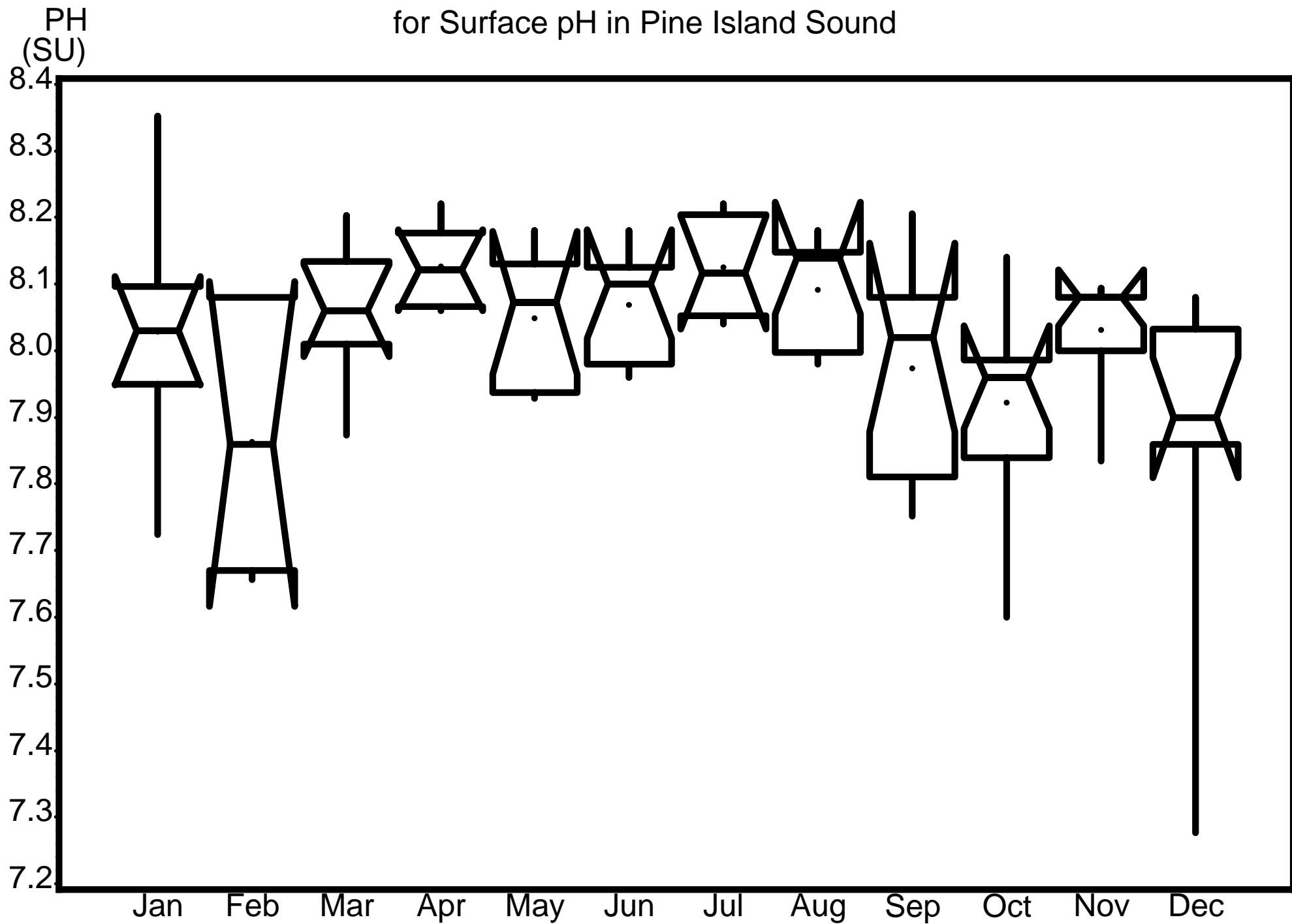
Monthly Data Time Series
for Surface pH in Pine Island Sound
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Pine Island Sound Trends Appendix - Display 1353

Seasonal Univariate Statistics for Surface pH in Pine Island Sound



Pine Island Sound Trends Appendix - Display 1354
Autocorrelation Statistics for Surface pH in Pine Island Sound

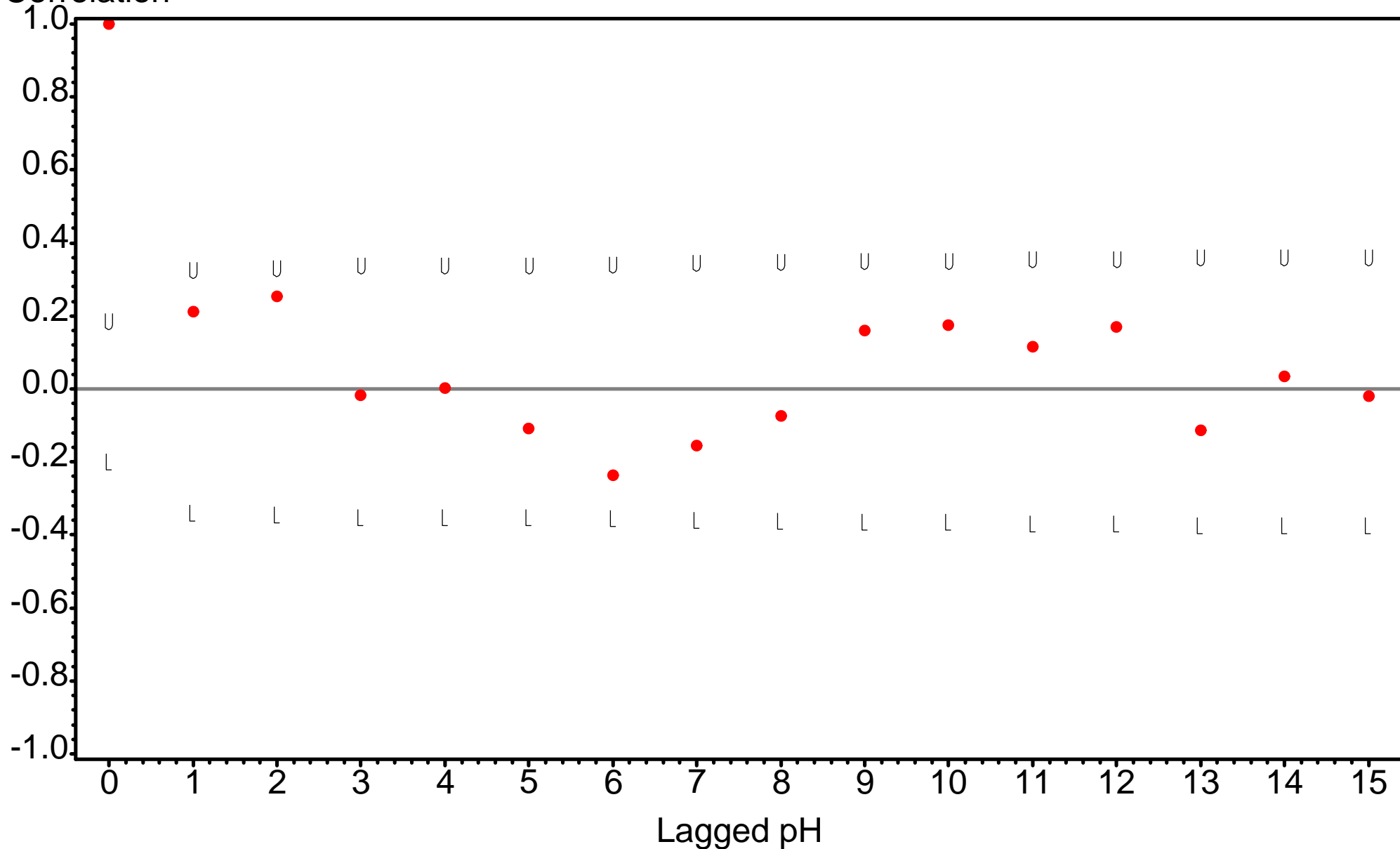
Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.211	0.167	0.333	-0.333
2	0.253	0.169	0.338	-0.338
3	-0.018	0.173	0.345	-0.345
4	0.003	0.173	0.345	-0.345
5	-0.109	0.173	0.345	-0.345
6	-0.237	0.173	0.347	-0.347
7	-0.155	0.176	0.352	-0.352
8	-0.074	0.177	0.355	-0.355
9	0.159	0.178	0.356	-0.356
10	0.176	0.179	0.358	-0.358
11	0.115	0.181	0.361	-0.361
12	0.170	0.181	0.363	-0.363
13	-0.114	0.183	0.366	-0.366
14	0.034	0.184	0.367	-0.367
15	-0.020	0.184	0.367	-0.367

Pine Island Sound Trends Appendix - Display 1355

Correlogram for Surface pH in Pine Island Sound

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1356
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.124	0.07	0.07	0.01

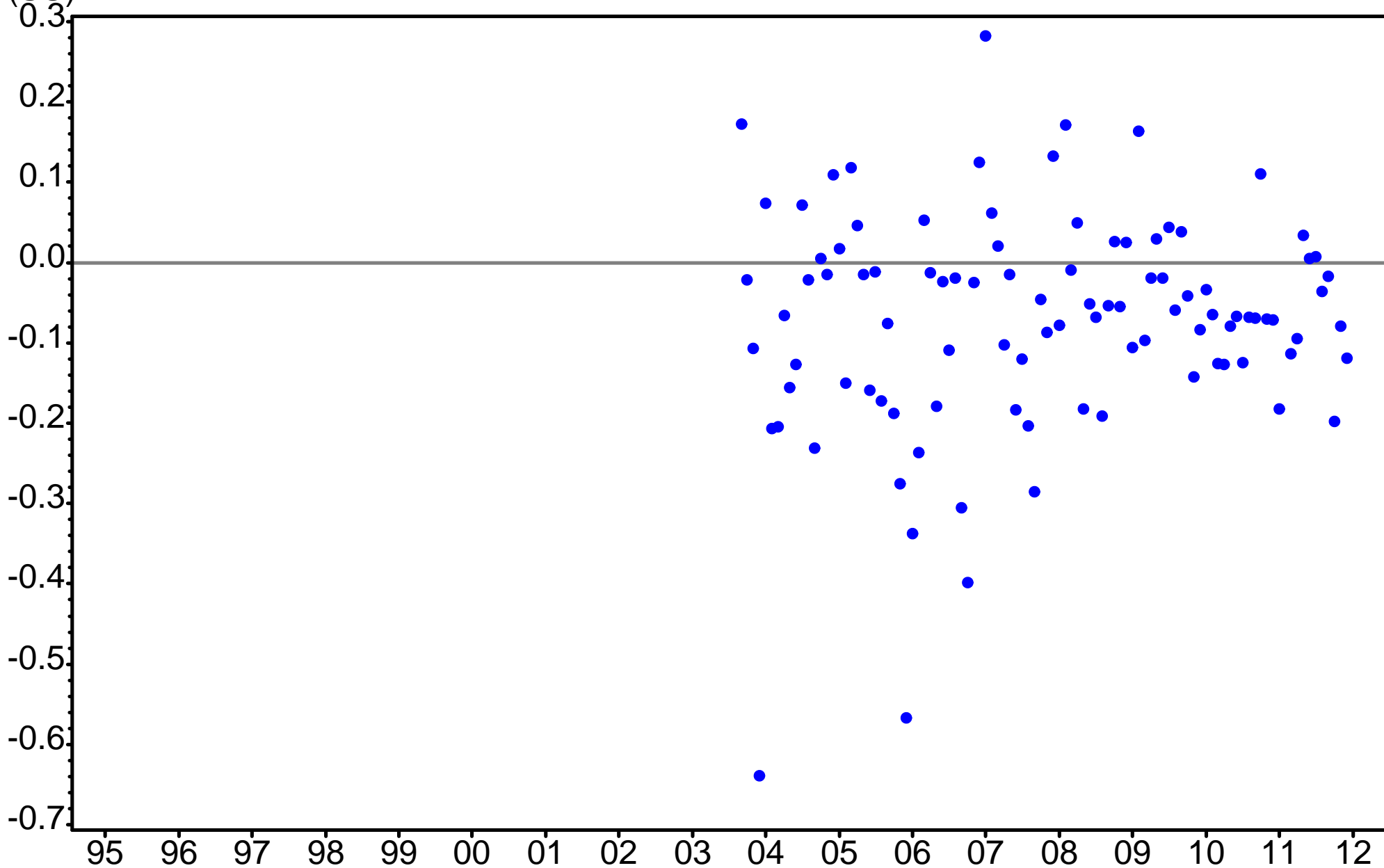
Pine Island Sound Trends Appendix - Display 1357
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.12188	0.14257	0.092513	.008

Pine Island Sound Trends Appendix - Display 1358

Time Series Plot of Surface pH Data Adjusted for Season and Detrended Pine Island Sound

Adjusted
(SU)



Zero Reference Line Shown

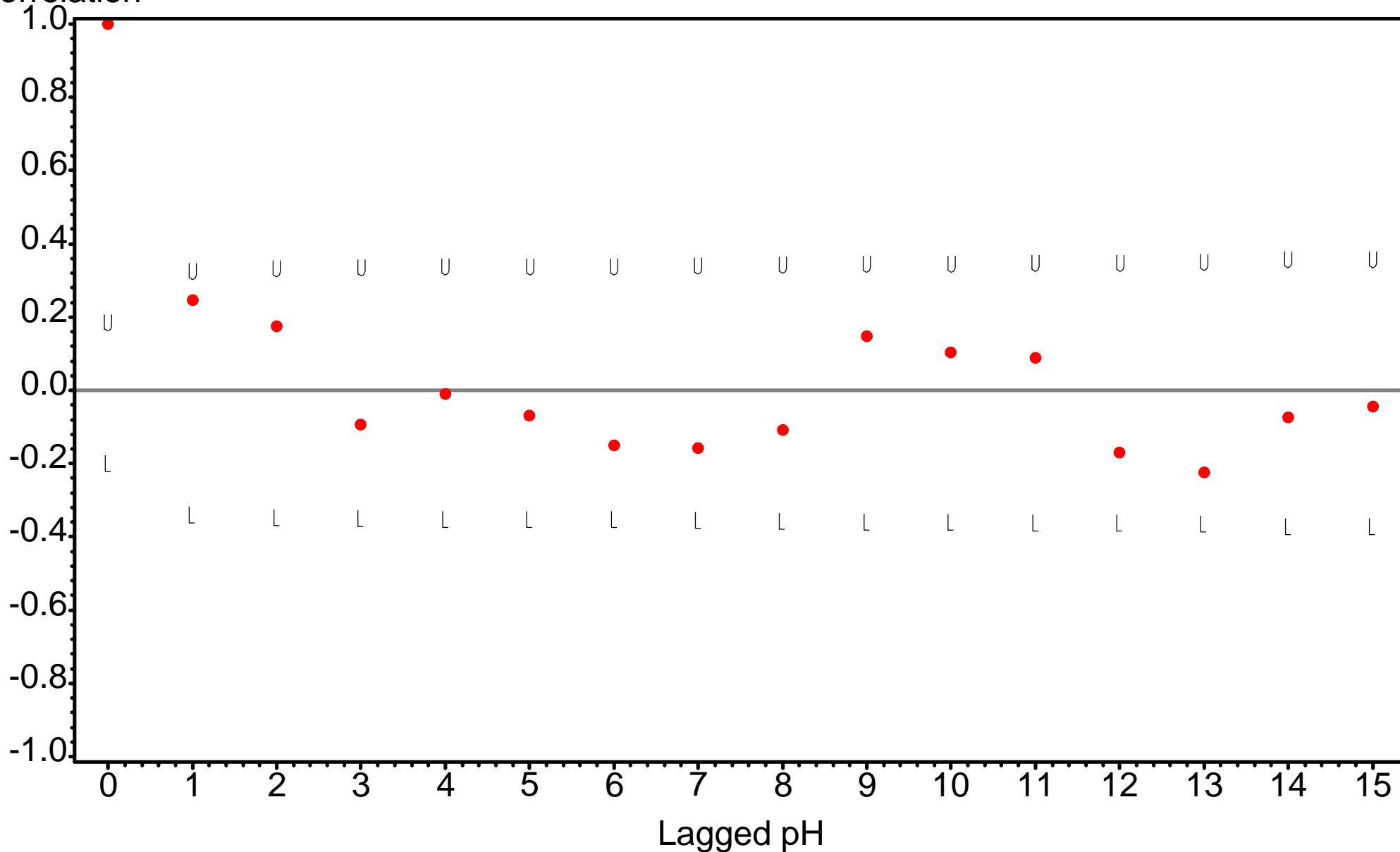
Pine Island Sound Trends Appendix - Display 1359
 Autocorrelation Statistics for Surface pH in Pine Island Sound
 Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.247	0.167	0.333	-0.333
2	0.176	0.170	0.340	-0.340
3	-0.094	0.172	0.343	-0.343
4	-0.011	0.172	0.344	-0.344
5	-0.069	0.172	0.344	-0.344
6	-0.149	0.172	0.345	-0.345
7	-0.158	0.174	0.347	-0.347
8	-0.109	0.175	0.350	-0.350
9	0.148	0.176	0.351	-0.351
10	0.103	0.177	0.353	-0.353
11	0.089	0.177	0.355	-0.355
12	-0.171	0.178	0.355	-0.355
13	-0.224	0.179	0.358	-0.358
14	-0.075	0.182	0.364	-0.364
15	-0.044	0.182	0.364	-0.364

Pine Island Sound Trends Appendix - Display 1360

Correlogram for Surface pH in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

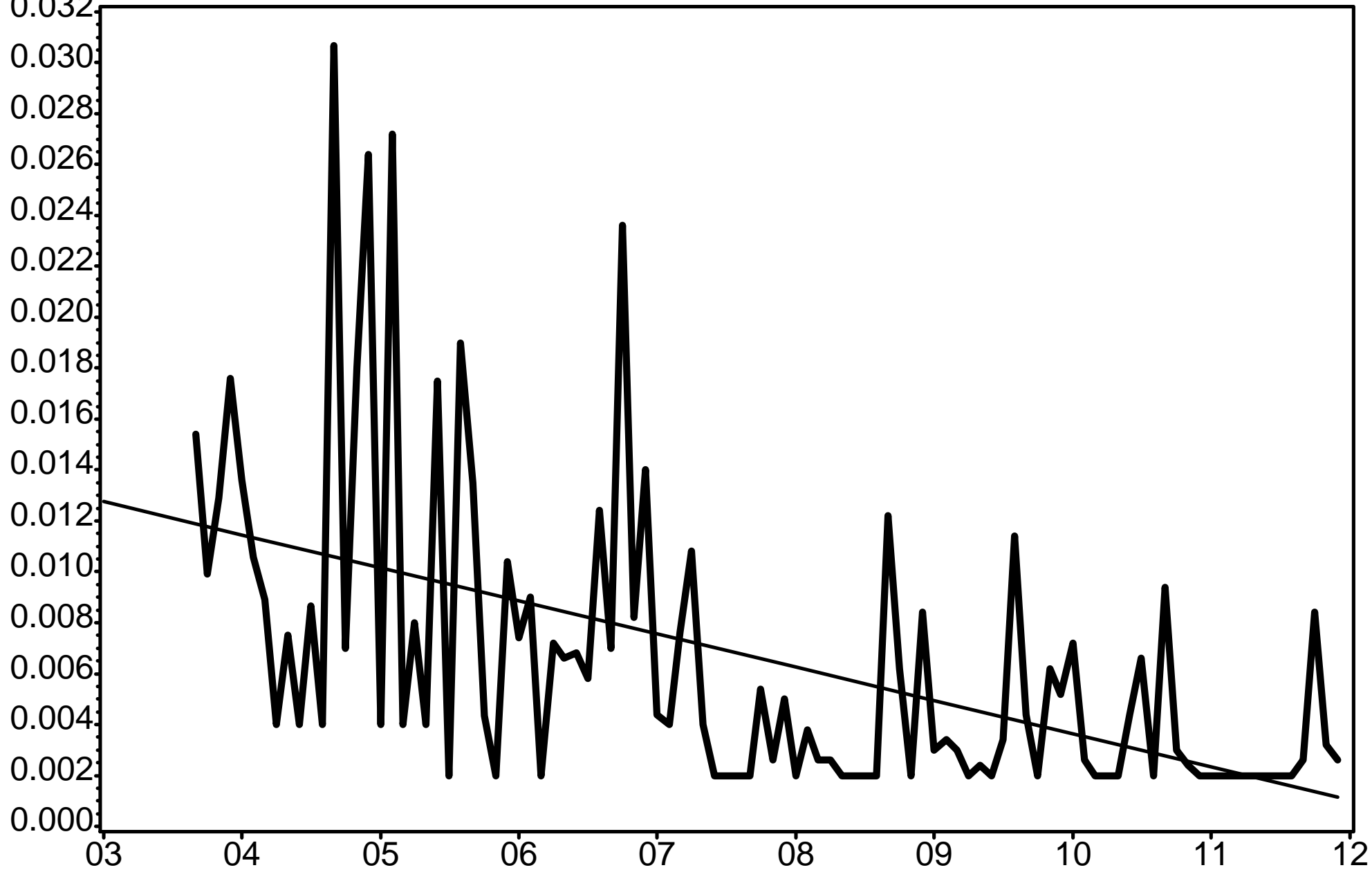
Pine Island Sound Trends Appendix - Display 1361

Monthly Data Time Series

for Surface Orthophosphate (as P) in Pine Island Sound

Not Adjusted for Seasonal Medians

PO4_mgl
(mg/l)



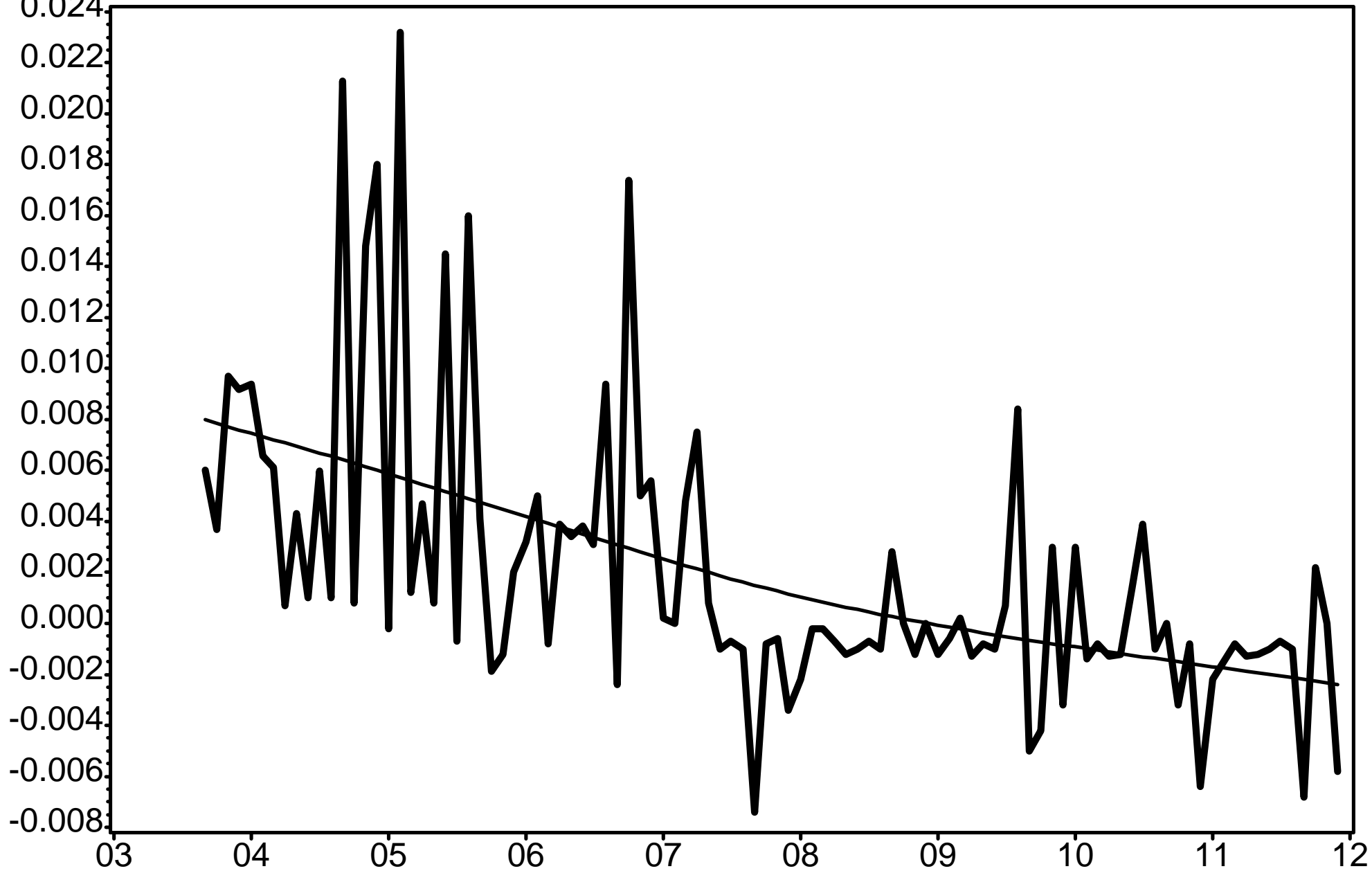
Pine Island Sound Trends Appendix - Display 1362

Monthly Data Time Series

for Surface Orthophosphate (as P) in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

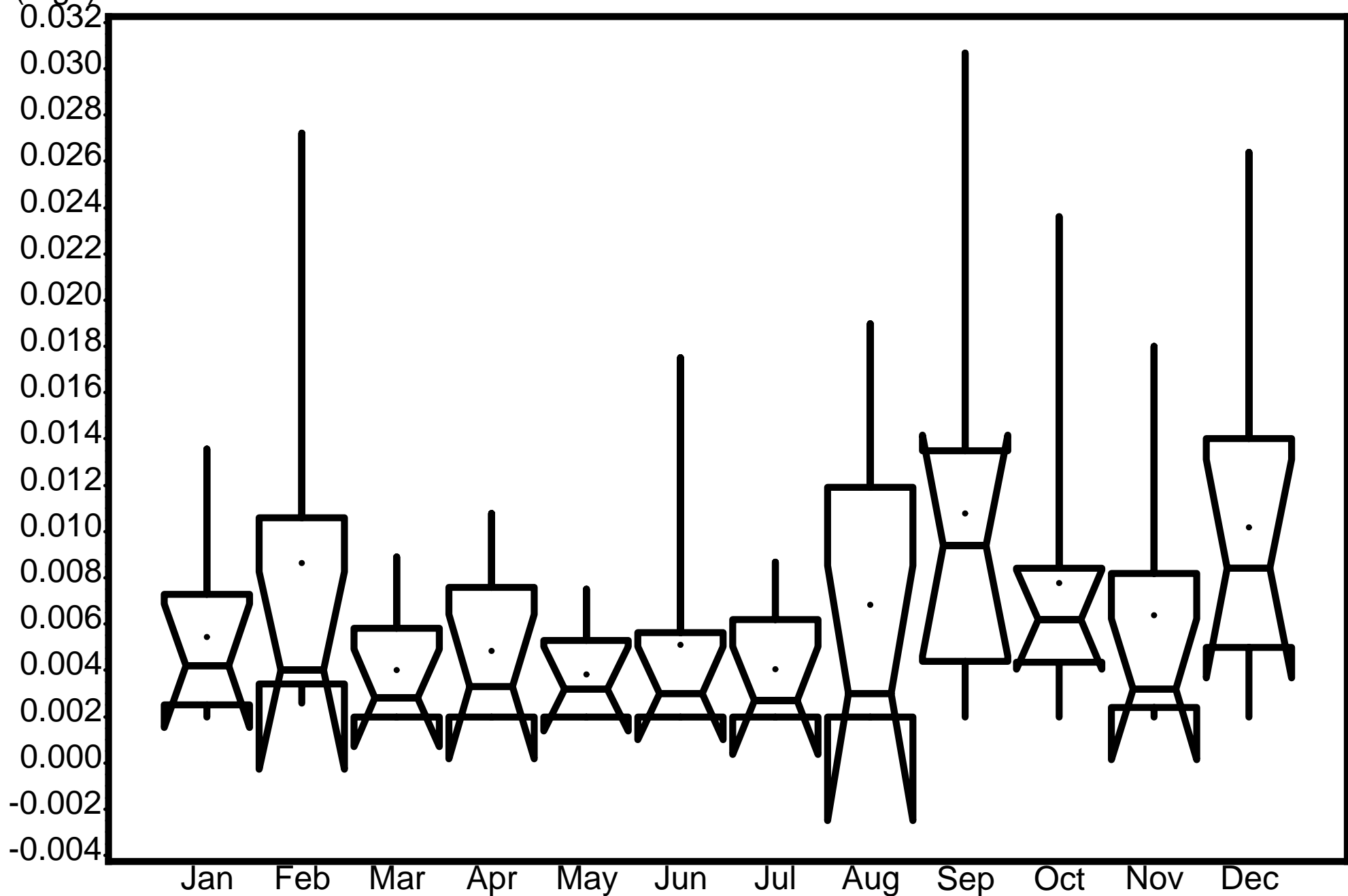


Pine Island Sound Trends Appendix - Display 1363

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Pine Island Sound

PO4_mgl
(mg/l)



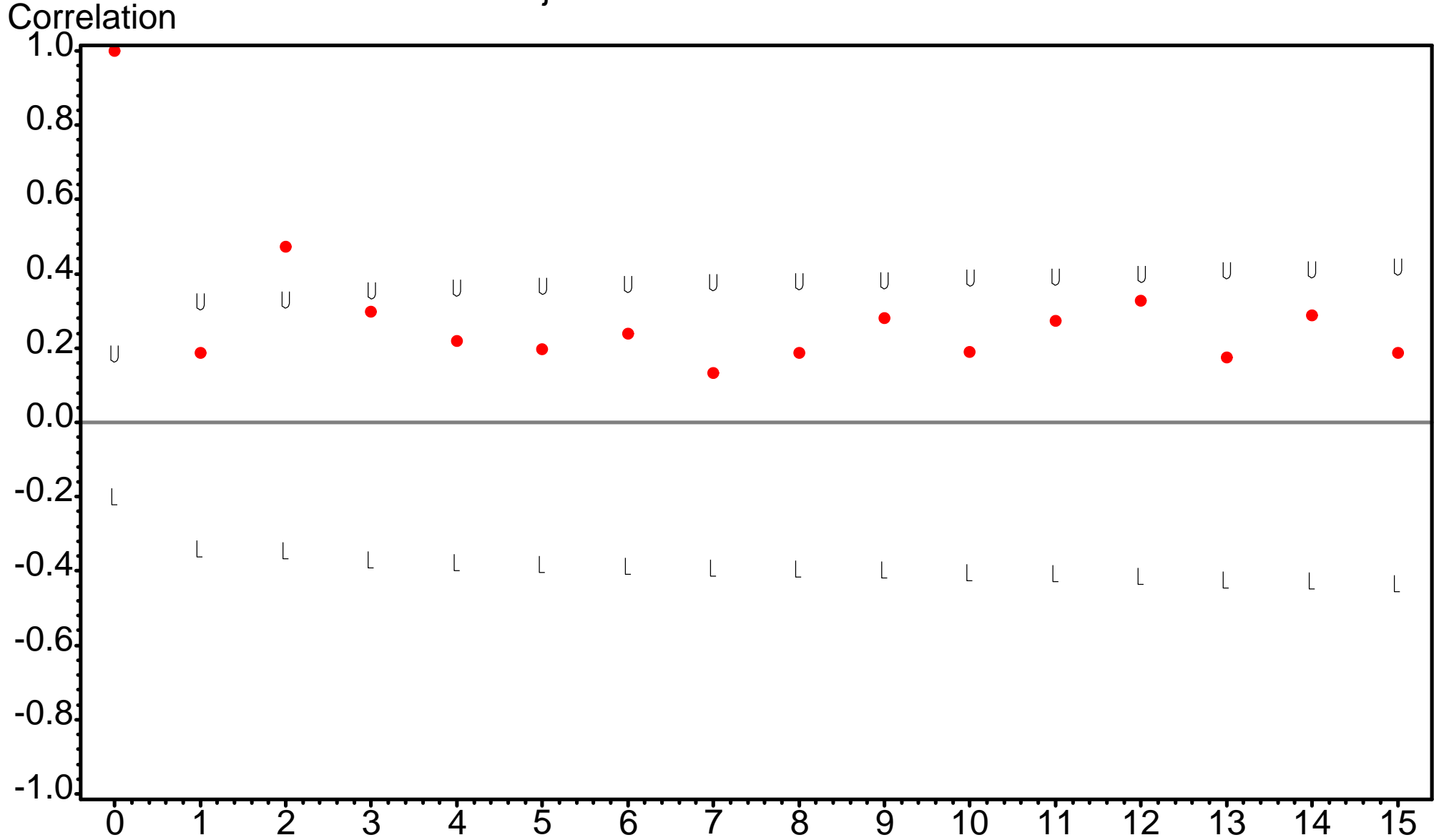
Pine Island Sound Trends Appendix - Display 1364
 Autocorrelation Statistics for Surface Orthophosphate (as P) in Pine Island Sound

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.187	0.167	0.333	-0.333
2	0.472	0.169	0.337	-0.337
3	0.298	0.180	0.361	-0.361
4	0.219	0.185	0.370	-0.370
5	0.196	0.187	0.375	-0.375
6	0.239	0.189	0.378	-0.378
7	0.134	0.192	0.384	-0.384
8	0.188	0.193	0.386	-0.386
9	0.280	0.194	0.389	-0.389
10	0.190	0.198	0.396	-0.396
11	0.274	0.200	0.400	-0.400
12	0.328	0.203	0.407	-0.407
13	0.175	0.208	0.416	-0.416
14	0.289	0.210	0.419	-0.419
15	0.186	0.213	0.426	-0.426

Pine Island Sound Trends Appendix - Display 1365

Correlogram for Surface Orthophosphate (as P) in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Orthophosphate (as P)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1366
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.402	0	0	-.001

Pine Island Sound Trends Appendix - Display 1367
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Pine Island Sound
Adjusted for Seasonal Medians

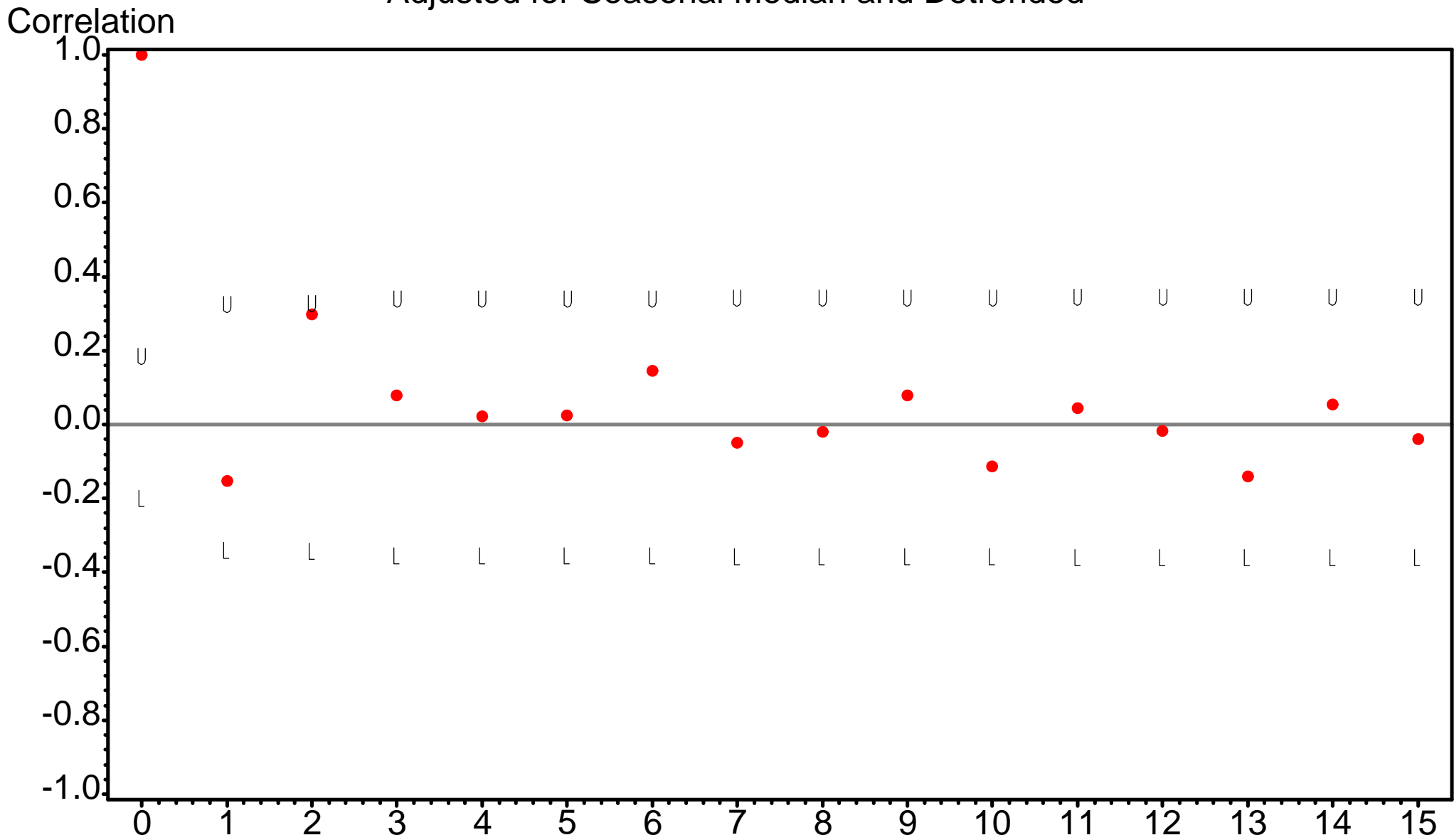
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.48477	0	.00612855	-.001

Pine Island Sound Trends Appendix - Display 1369
Autocorrelation Statistics for Surface Orthophosphate (as P) in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.153	0.167	0.333	-0.333
2	0.297	0.168	0.336	-0.336
3	0.078	0.173	0.346	-0.346
4	0.021	0.173	0.346	-0.346
5	0.024	0.173	0.346	-0.346
6	0.145	0.173	0.346	-0.346
7	-0.050	0.174	0.349	-0.349
8	-0.019	0.174	0.349	-0.349
9	0.080	0.174	0.349	-0.349
10	-0.112	0.175	0.350	-0.350
11	0.044	0.175	0.351	-0.351
12	-0.016	0.176	0.351	-0.351
13	-0.141	0.176	0.351	-0.351
14	0.053	0.177	0.353	-0.353
15	-0.040	0.177	0.353	-0.353

Pine Island Sound Trends Appendix - Display 1370

Correlogram for Surface Orthophosphate (as P) in Pine Island Sound Adjusted for Seasonal Median and Detrended



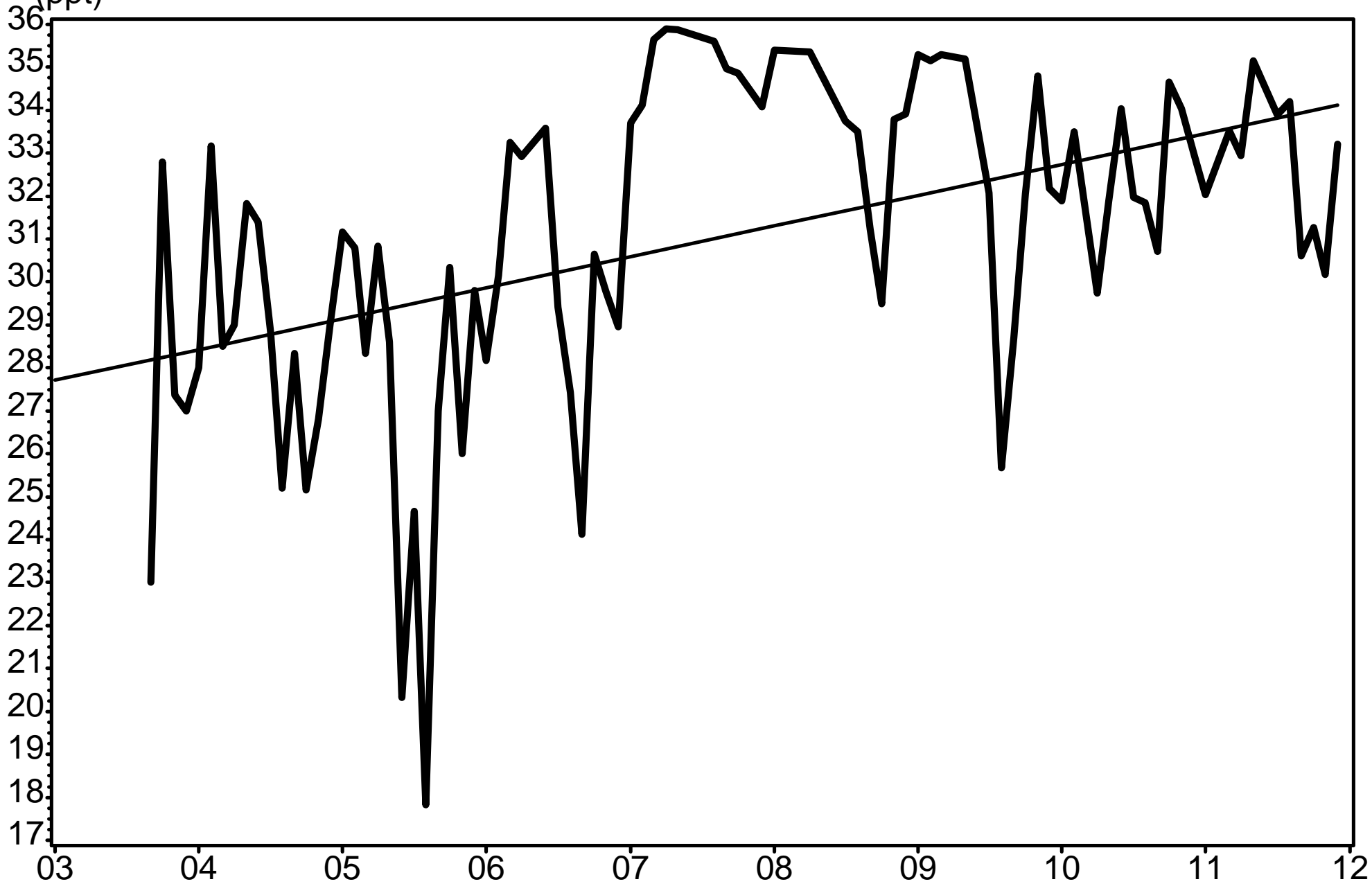
Lagged Orthophosphate (as P)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1371

Monthly Data Time Series
for Surface Salinity in Pine Island Sound
Not Adjusted for Seasonal Medians

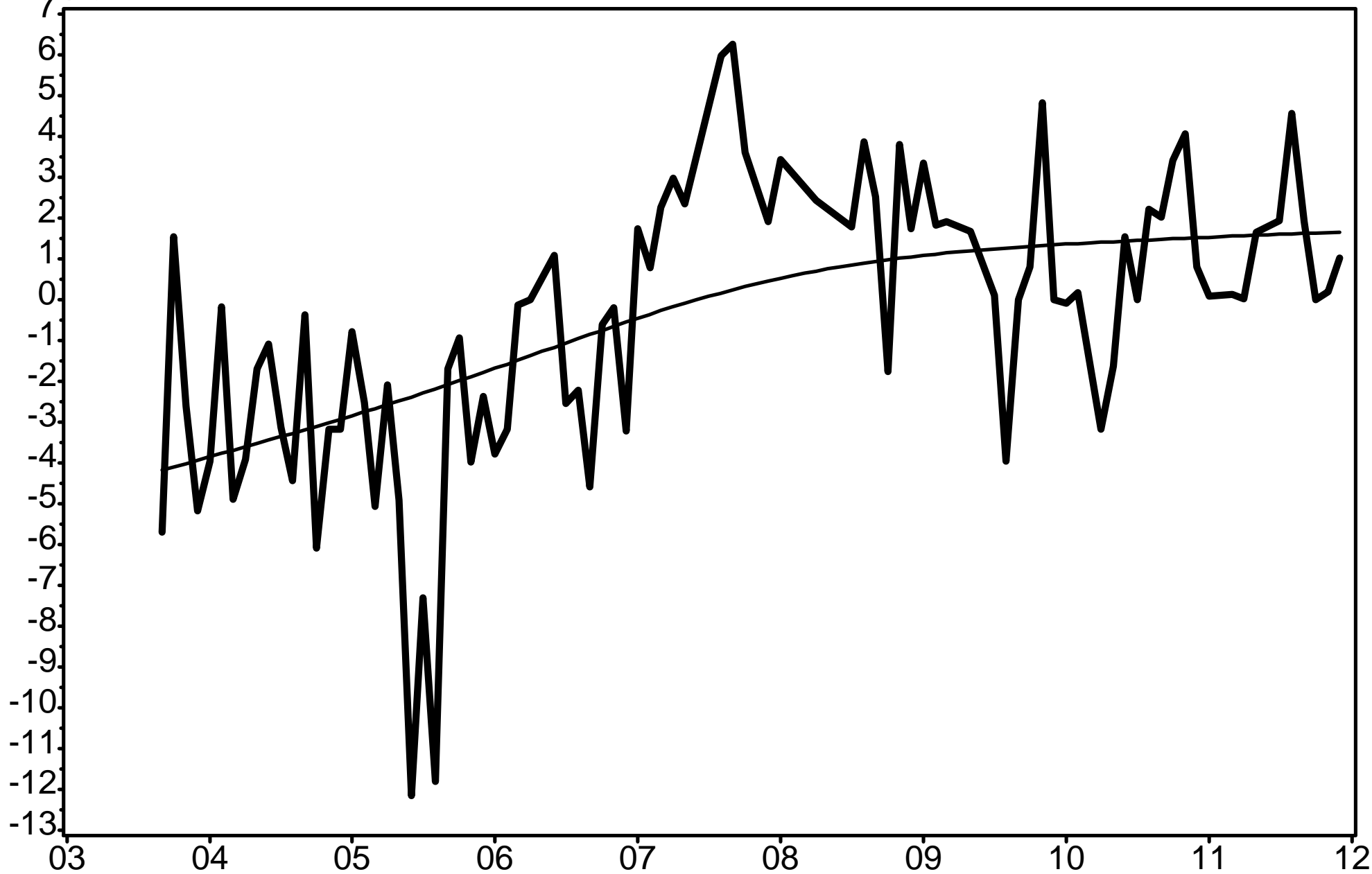
Salinity
(ppt)



Pine Island Sound Trends Appendix - Display 1372

Monthly Data Time Series
for Surface Salinity in Pine Island Sound
Adjusted for Seasonal Medians

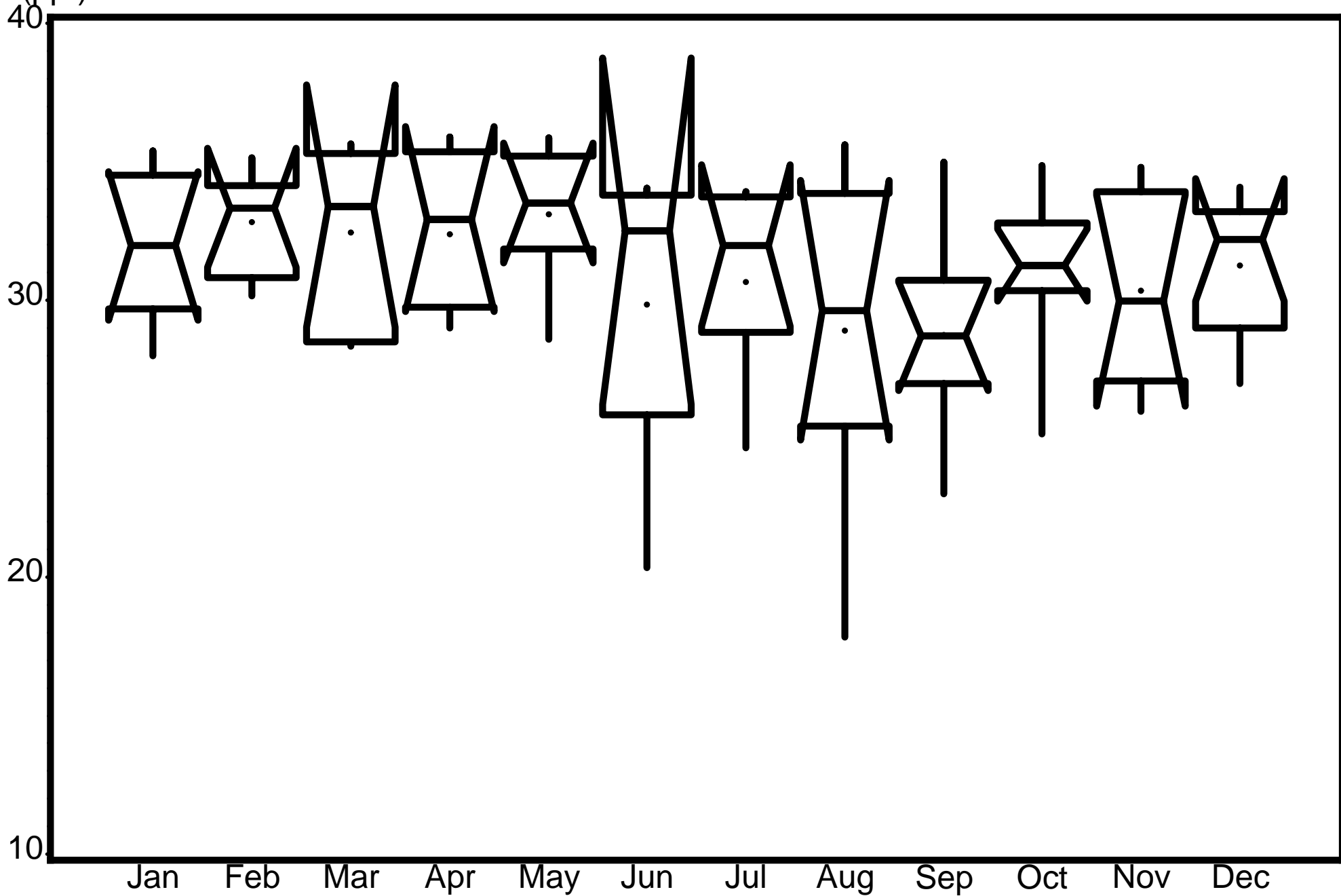
Adjusted
Salinity
(ppt)



Pine Island Sound Trends Appendix - Display 1373

Seasonal Univariate Statistics for Surface Salinity in Pine Island Sound

Salinity
(ppt)

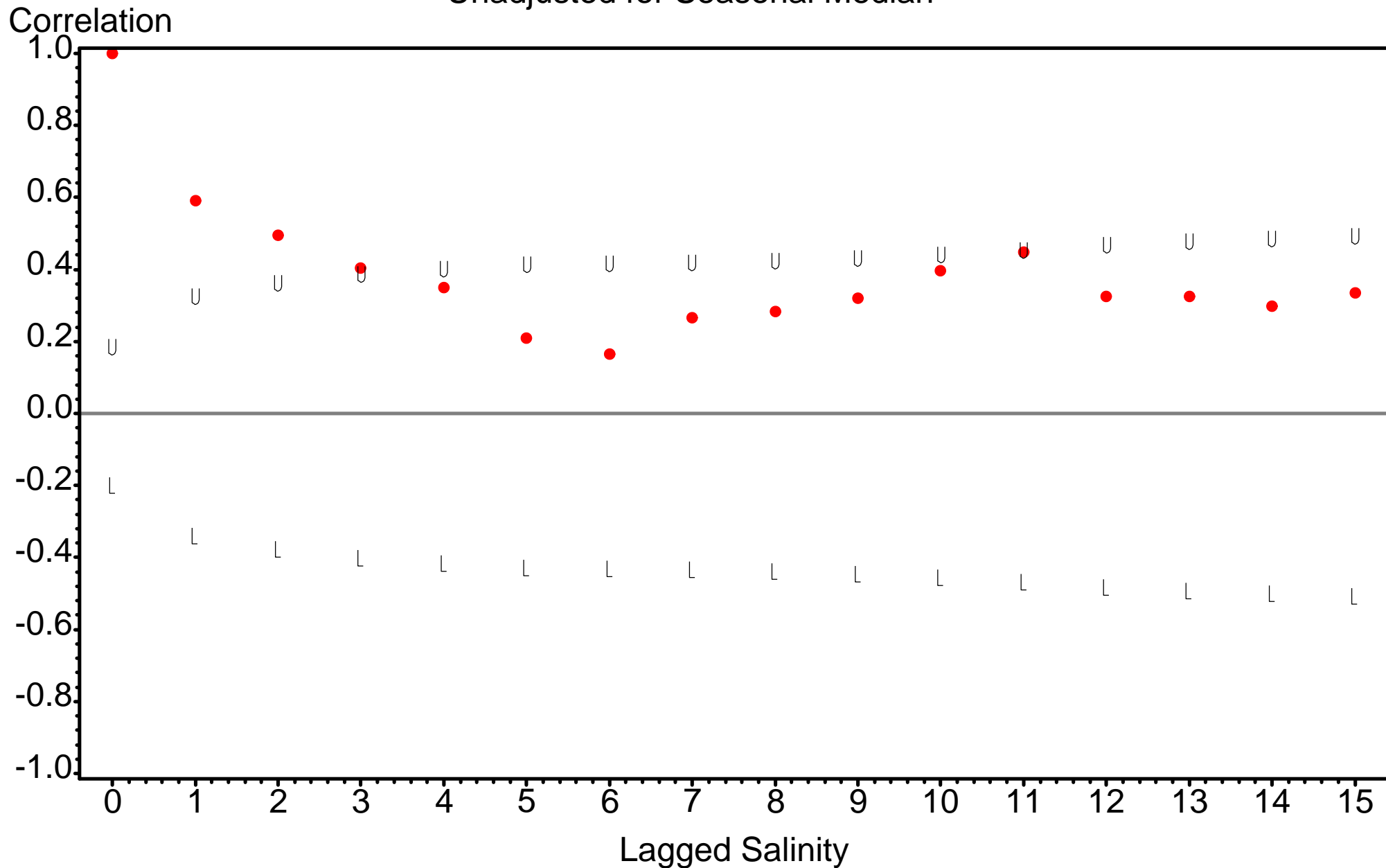


Pine Island Sound Trends Appendix - Display 1374
Autocorrelation Statistics for Surface Salinity in Pine Island Sound

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.591	0.167	0.333	-0.333
2	0.495	0.185	0.370	-0.370
3	0.404	0.197	0.394	-0.394
4	0.349	0.204	0.409	-0.409
5	0.210	0.210	0.420	-0.420
6	0.164	0.212	0.424	-0.424
7	0.265	0.213	0.426	-0.426
8	0.282	0.216	0.432	-0.432
9	0.319	0.219	0.439	-0.439
10	0.396	0.224	0.447	-0.447
11	0.449	0.230	0.460	-0.460
12	0.324	0.238	0.476	-0.476
13	0.325	0.242	0.484	-0.484
14	0.298	0.246	0.492	-0.492
15	0.334	0.249	0.499	-0.499

Pine Island Sound Trends Appendix - Display 1375

Correlogram for Surface Salinity in Pine Island Sound
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1376
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.315	0	0	0.647

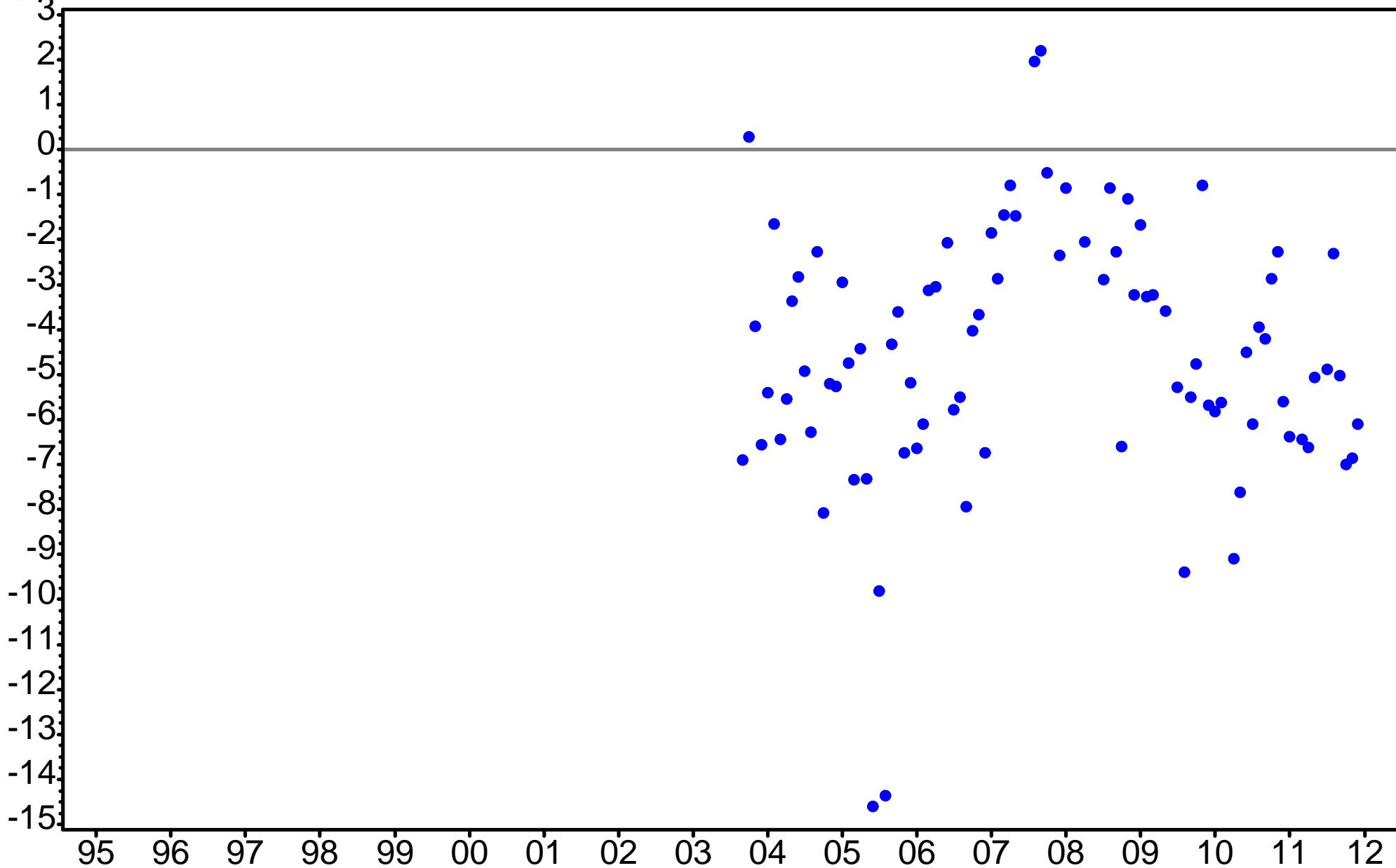
Pine Island Sound Trends Appendix - Display 1377
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.41053	.000005841	0.070718	0.71714

Pine Island Sound Trends Appendix - Display 1378

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(ppt)



Zero Reference Line Shown

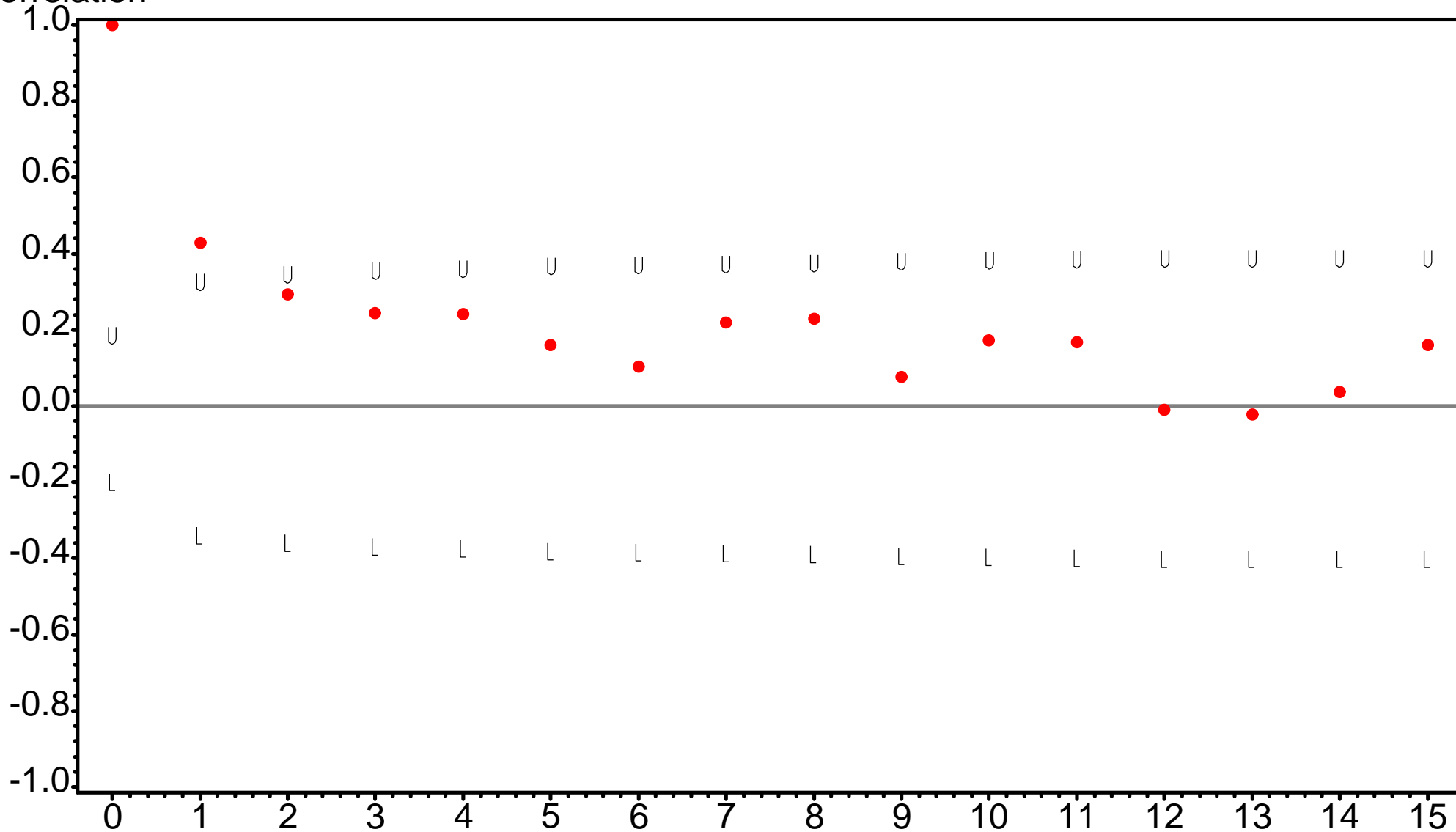
Pine Island Sound Trends Appendix - Display 1379
Autocorrelation Statistics for Surface Salinity in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.429	0.167	0.333	-0.333
2	0.294	0.177	0.353	-0.353
3	0.245	0.181	0.362	-0.362
4	0.242	0.184	0.368	-0.368
5	0.159	0.187	0.374	-0.374
6	0.103	0.188	0.377	-0.377
7	0.220	0.189	0.378	-0.378
8	0.230	0.191	0.382	-0.382
9	0.077	0.194	0.387	-0.387
10	0.173	0.194	0.388	-0.388
11	0.167	0.195	0.391	-0.391
12	-0.010	0.197	0.393	-0.393
13	-0.023	0.197	0.393	-0.393
14	0.036	0.197	0.393	-0.393
15	0.160	0.197	0.394	-0.394

Pine Island Sound Trends Appendix - Display 1380

Correlogram for Surface Salinity in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation



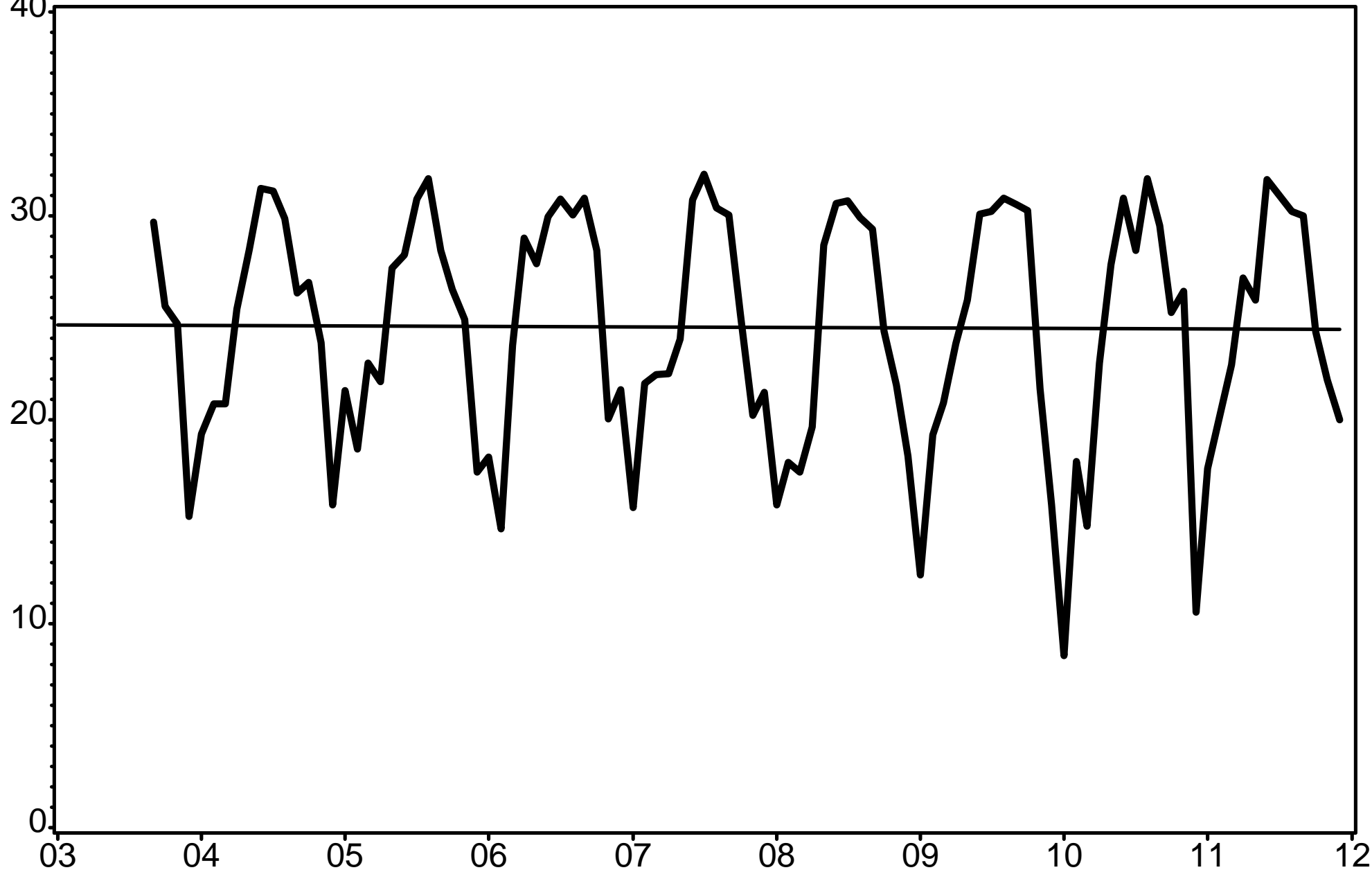
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1381

Monthly Data Time Series
for Surface Temperature in Pine Island Sound
Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)



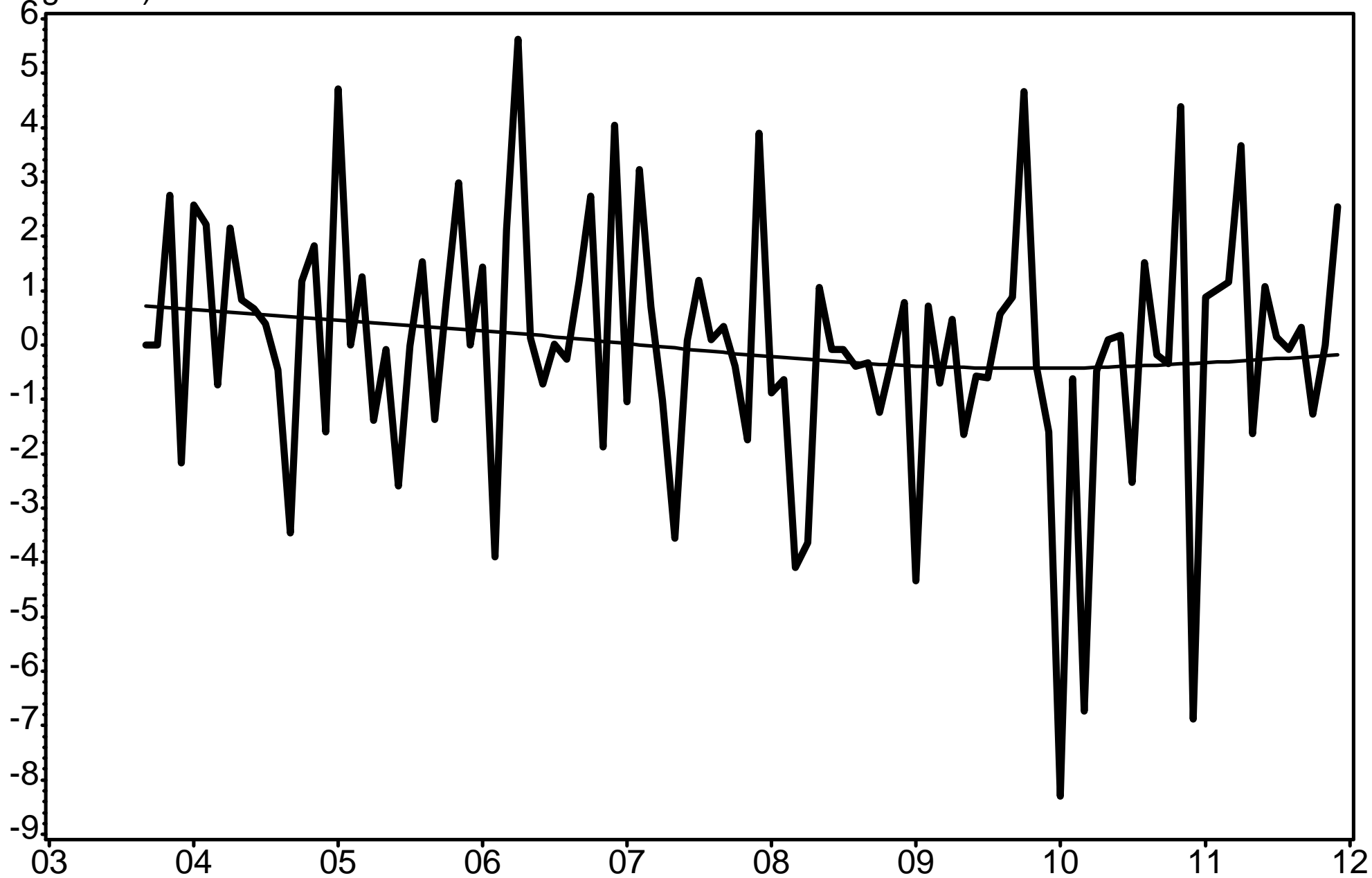
Pine Island Sound Trends Appendix - Display 1382

Monthly Data Time Series

for Surface Temperature in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TEMP_C
(Degree C)

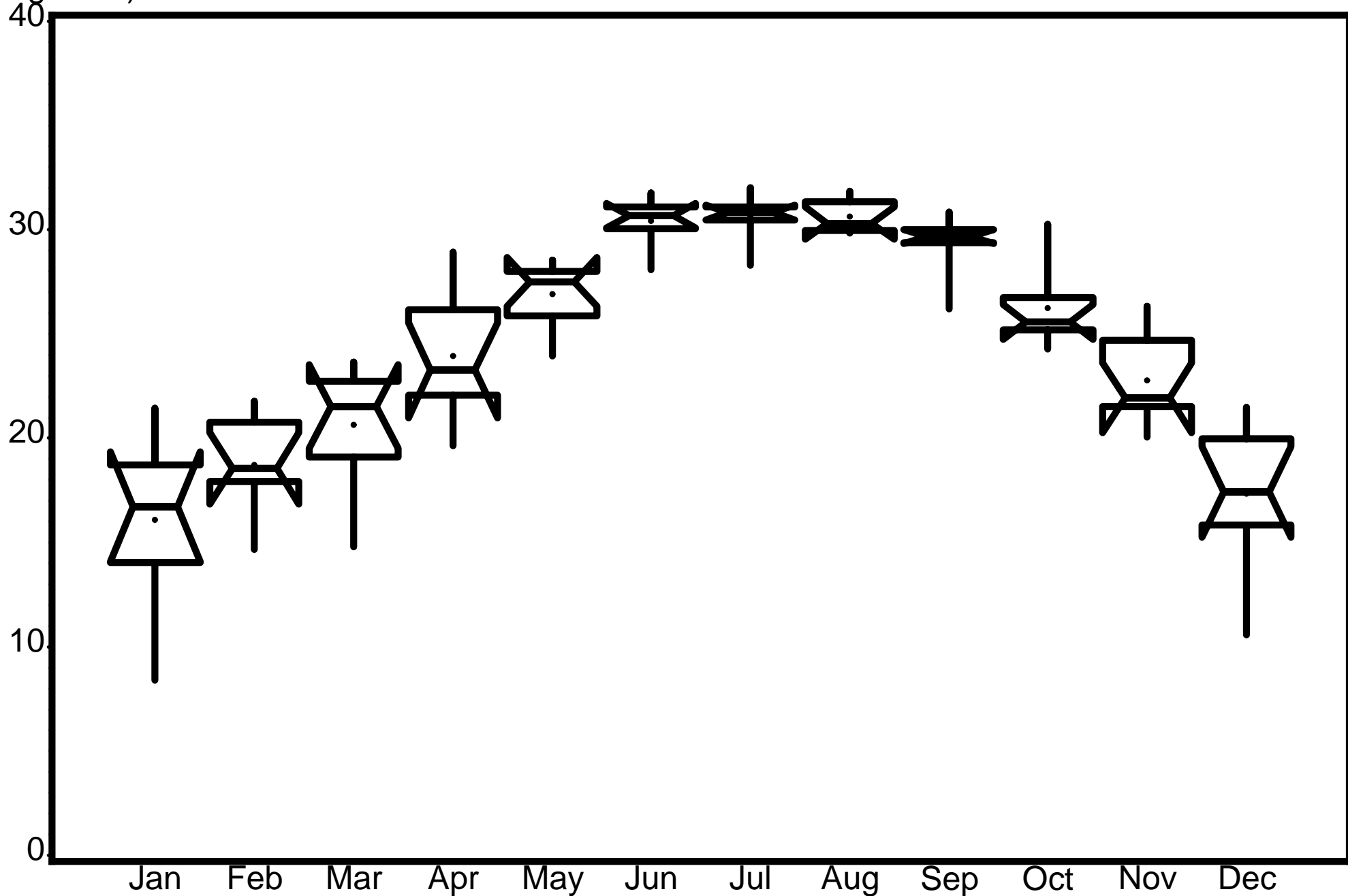


Pine Island Sound Trends Appendix - Display 1383

Seasonal Univariate Statistics

for Surface Temperature in Pine Island Sound

TEMP_C
(Degree C)



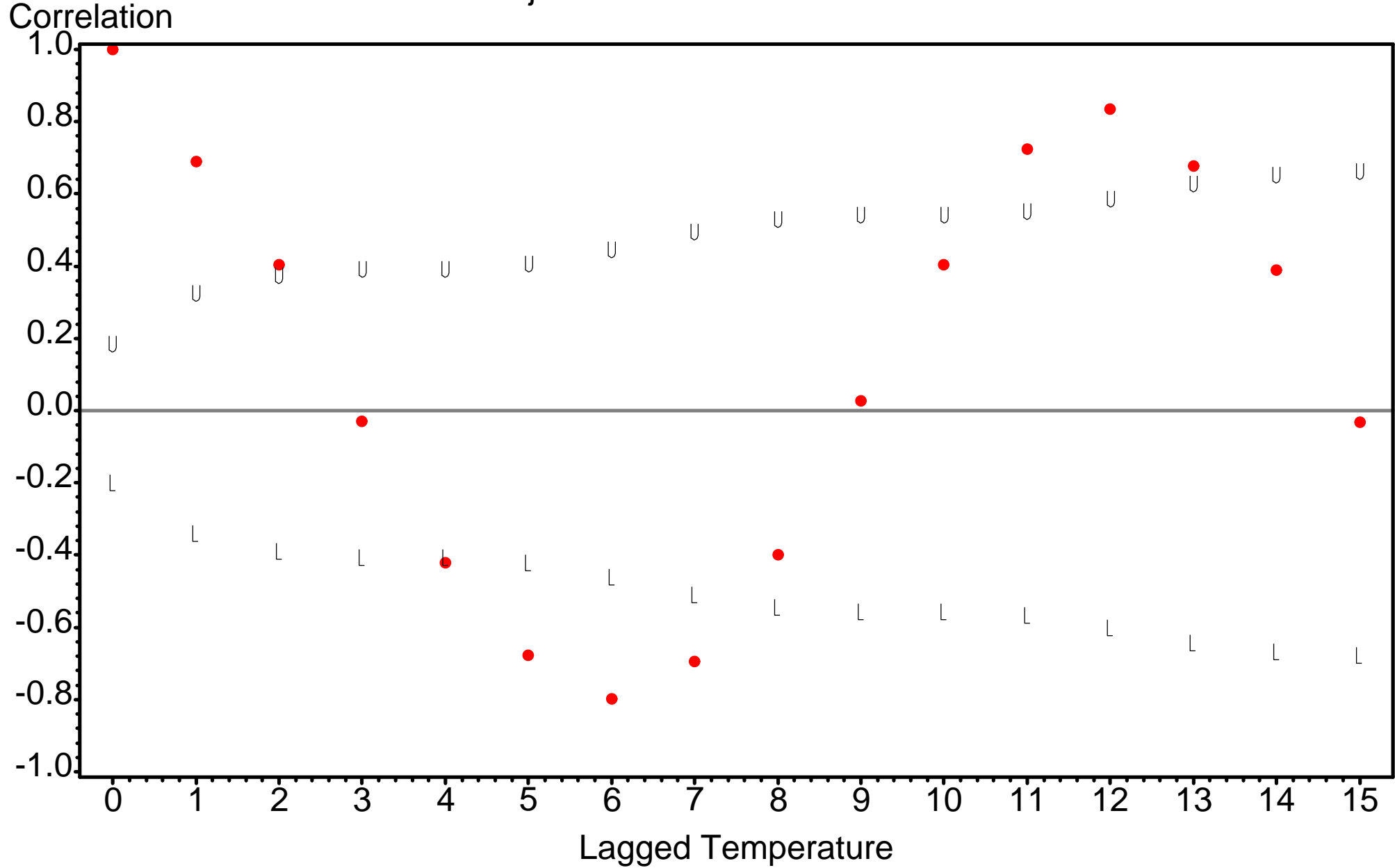
Pine Island Sound Trends Appendix - Display 1384
Autocorrelation Statistics for Surface Temperature in Pine Island Sound

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.689	0.167	0.333	-0.333
2	0.403	0.191	0.382	-0.382
3	-0.030	0.199	0.398	-0.398
4	-0.421	0.199	0.398	-0.398
5	-0.678	0.207	0.414	-0.414
6	-0.798	0.227	0.453	-0.453
7	-0.695	0.251	0.503	-0.503
8	-0.398	0.269	0.537	-0.537
9	0.027	0.274	0.548	-0.548
10	0.405	0.274	0.548	-0.548
11	0.725	0.279	0.559	-0.559
12	0.834	0.296	0.593	-0.593
13	0.676	0.317	0.635	-0.635
14	0.388	0.330	0.661	-0.661
15	-0.032	0.335	0.669	-0.669

Pine Island Sound Trends Appendix - Display 1385

Correlogram for Surface Temperature in Pine Island Sound

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1386
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.02	0.767	0.767	0.051

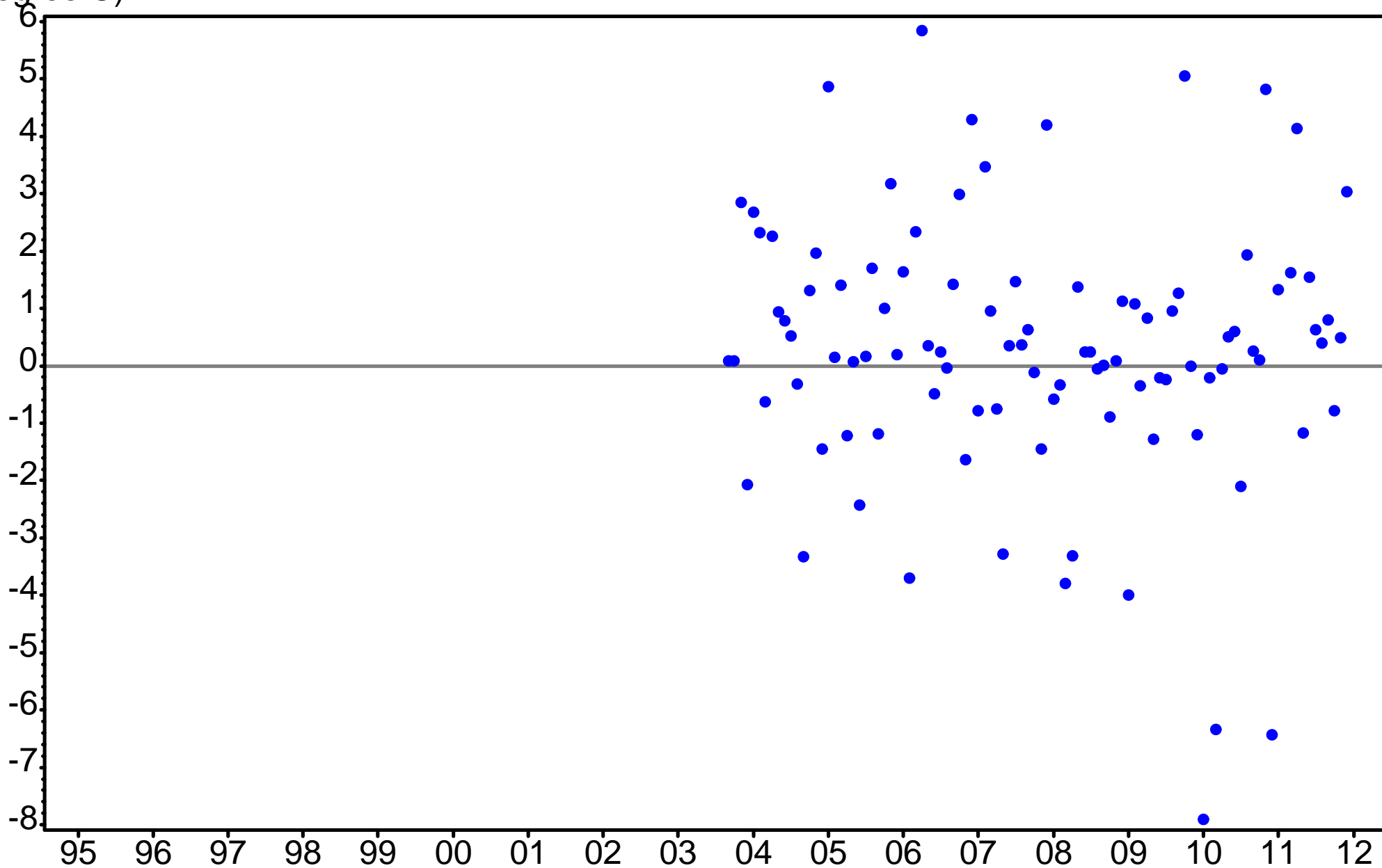
Pine Island Sound Trends Appendix - Display 1387
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.060942	0.47615	0.45459	-0.05

Pine Island Sound Trends Appendix - Display 1388

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(Degree C)



Zero Reference Line Shown

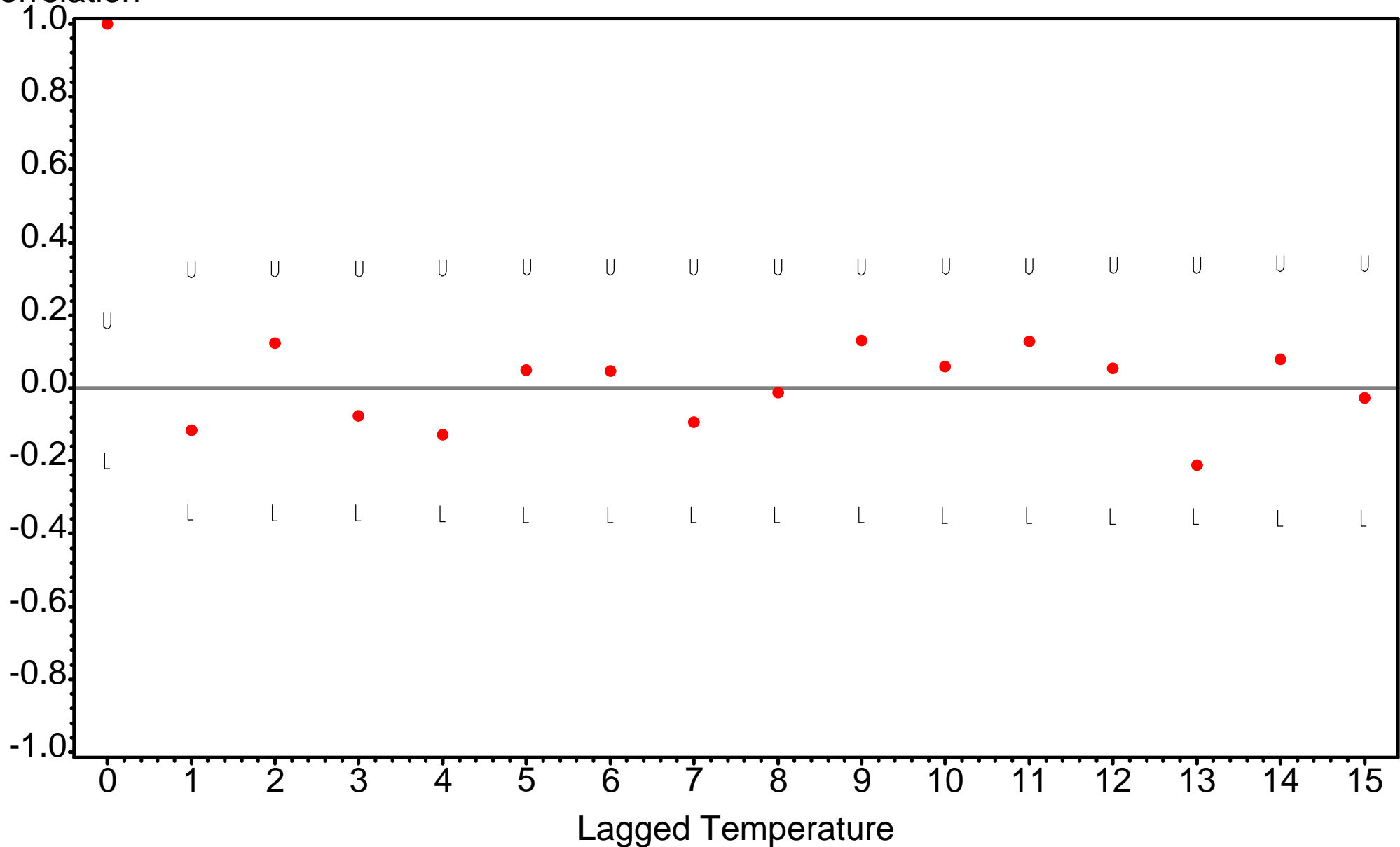
Pine Island Sound Trends Appendix - Display 1389
Autocorrelation Statistics for Surface Temperature in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.116	0.167	0.333	-0.333
2	0.122	0.167	0.335	-0.335
3	-0.076	0.168	0.336	-0.336
4	-0.128	0.169	0.337	-0.337
5	0.049	0.169	0.339	-0.339
6	0.048	0.170	0.339	-0.339
7	-0.093	0.170	0.339	-0.339
8	-0.013	0.170	0.340	-0.340
9	0.130	0.170	0.340	-0.340
10	0.058	0.171	0.342	-0.342
11	0.129	0.171	0.343	-0.343
12	0.053	0.172	0.344	-0.344
13	-0.212	0.172	0.345	-0.345
14	0.080	0.175	0.349	-0.349
15	-0.027	0.175	0.350	-0.350

Pine Island Sound Trends Appendix - Display 1390

Correlogram for Surface Temperature in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

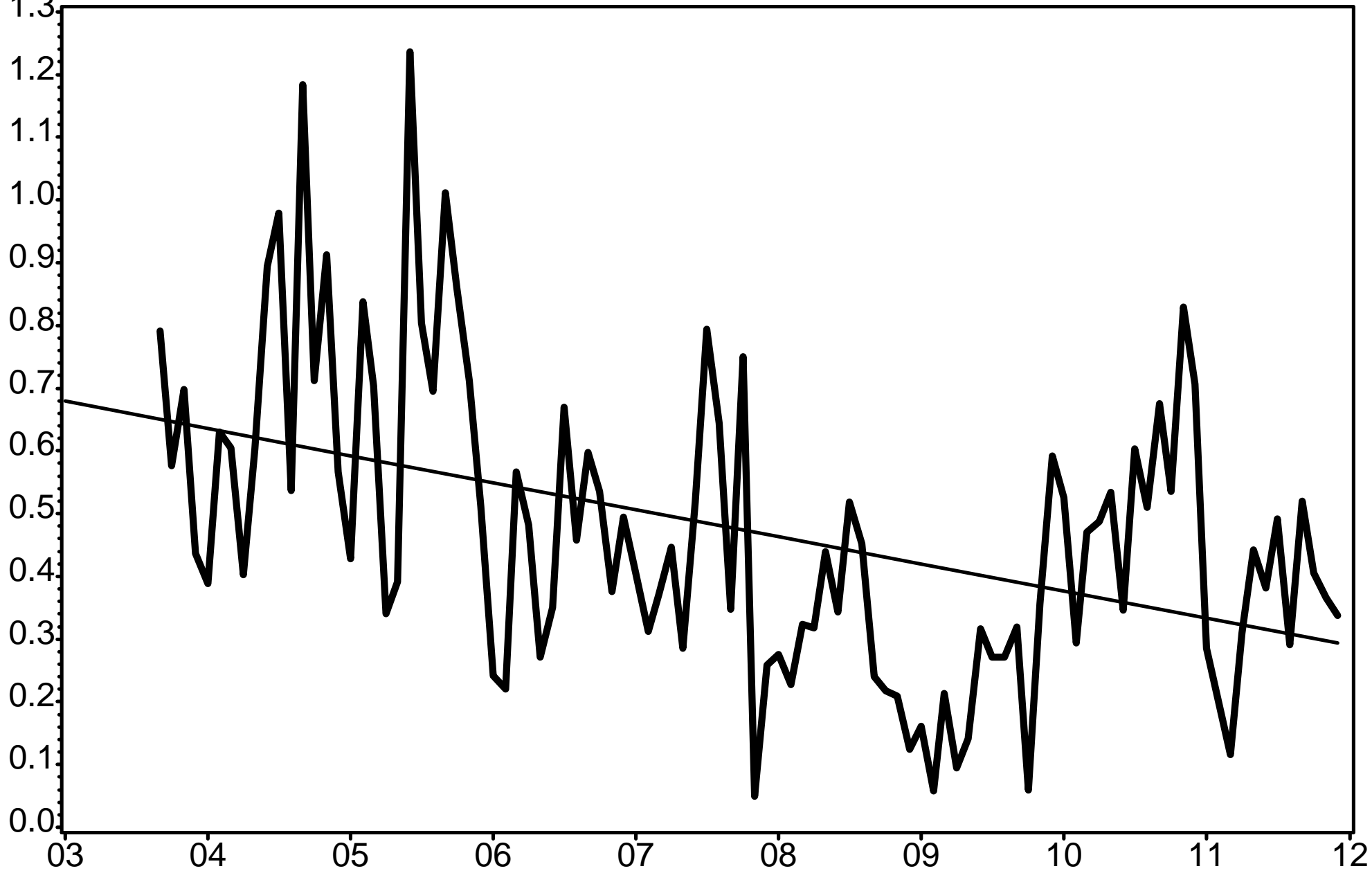
Pine Island Sound Trends Appendix - Display 1391

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Pine Island Sound

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



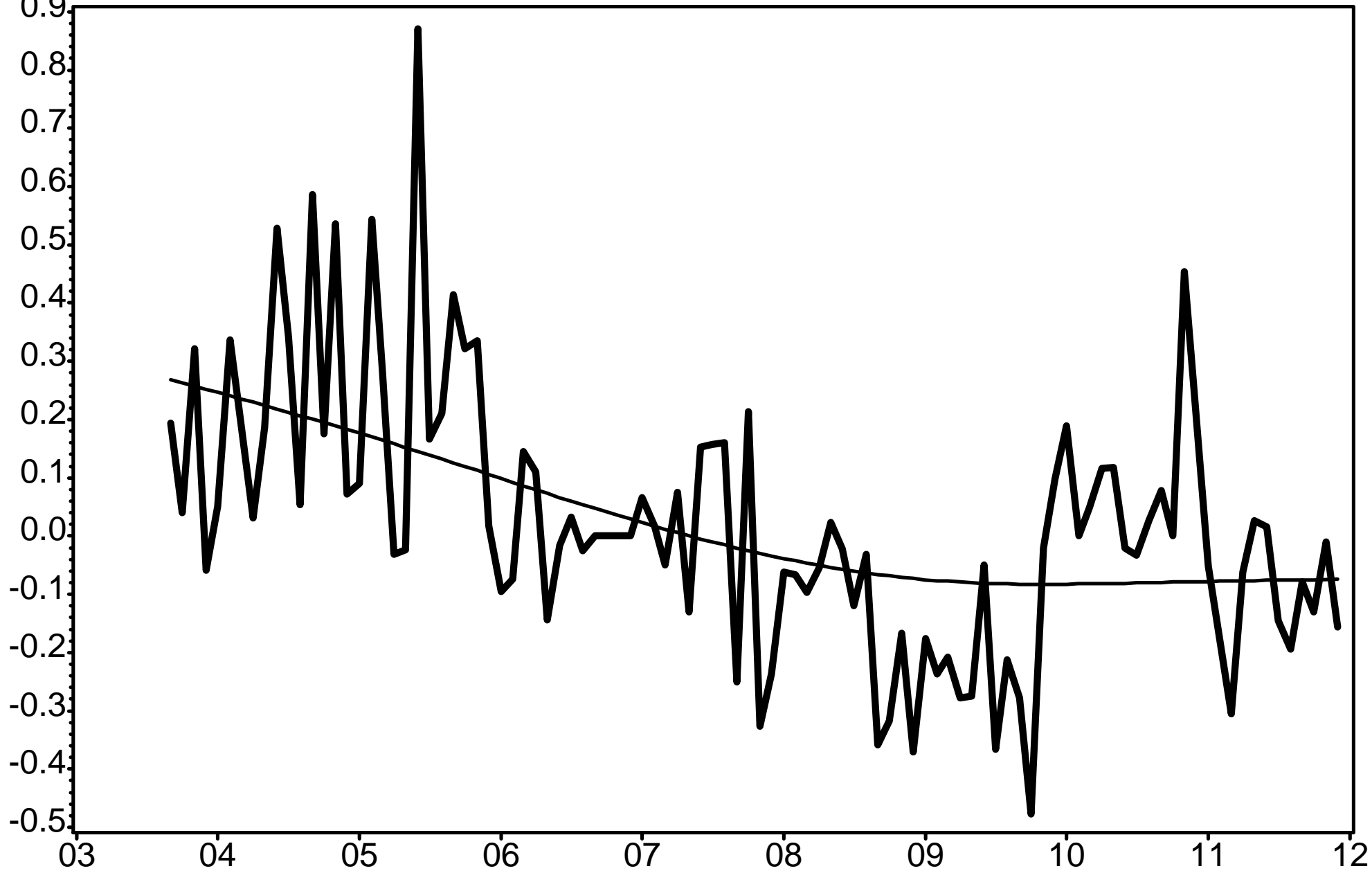
Pine Island Sound Trends Appendix - Display 1392

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

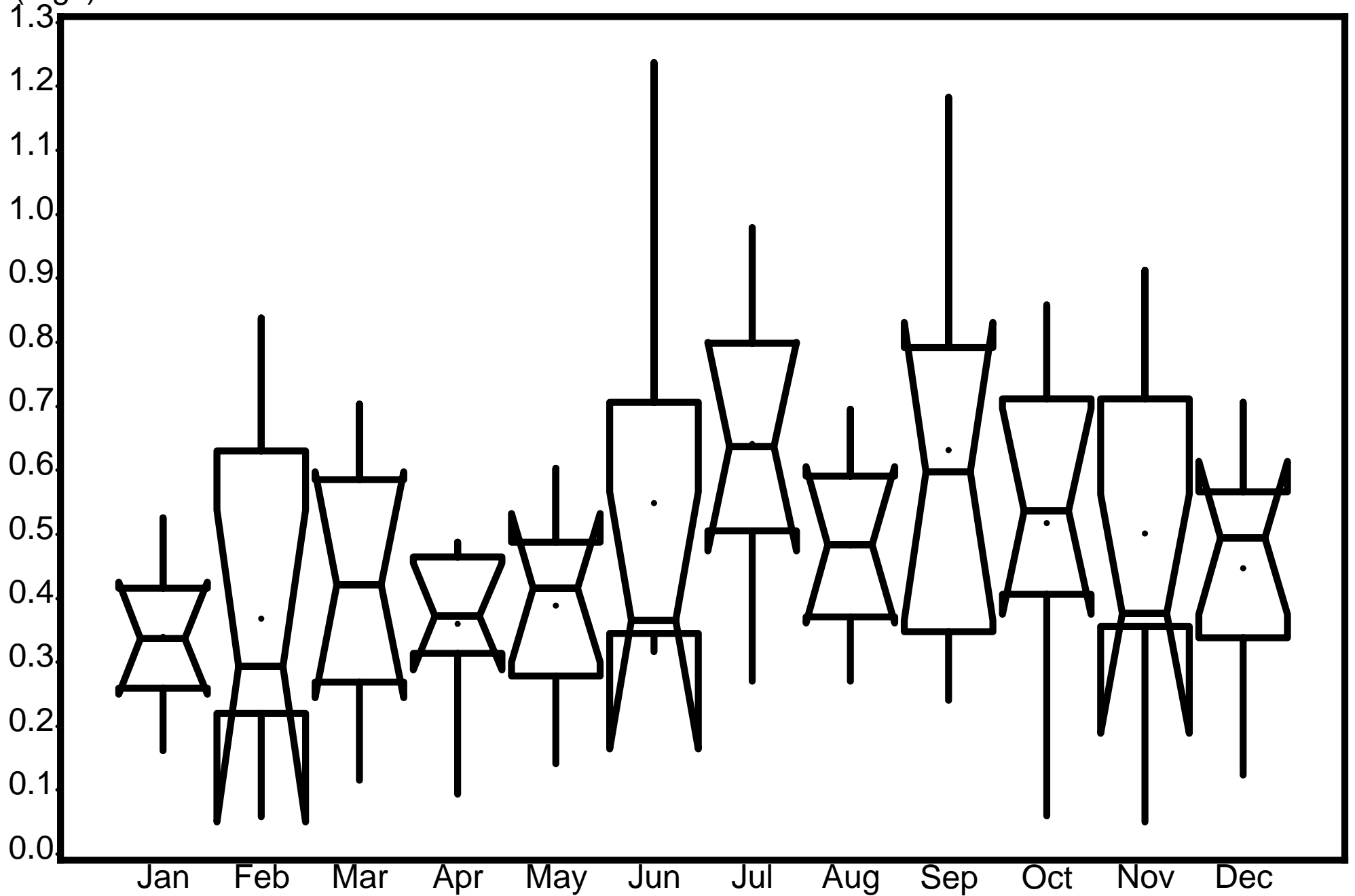


Pine Island Sound Trends Appendix - Display 1393

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Pine Island Sound

TKN_mgl
(mg/l)



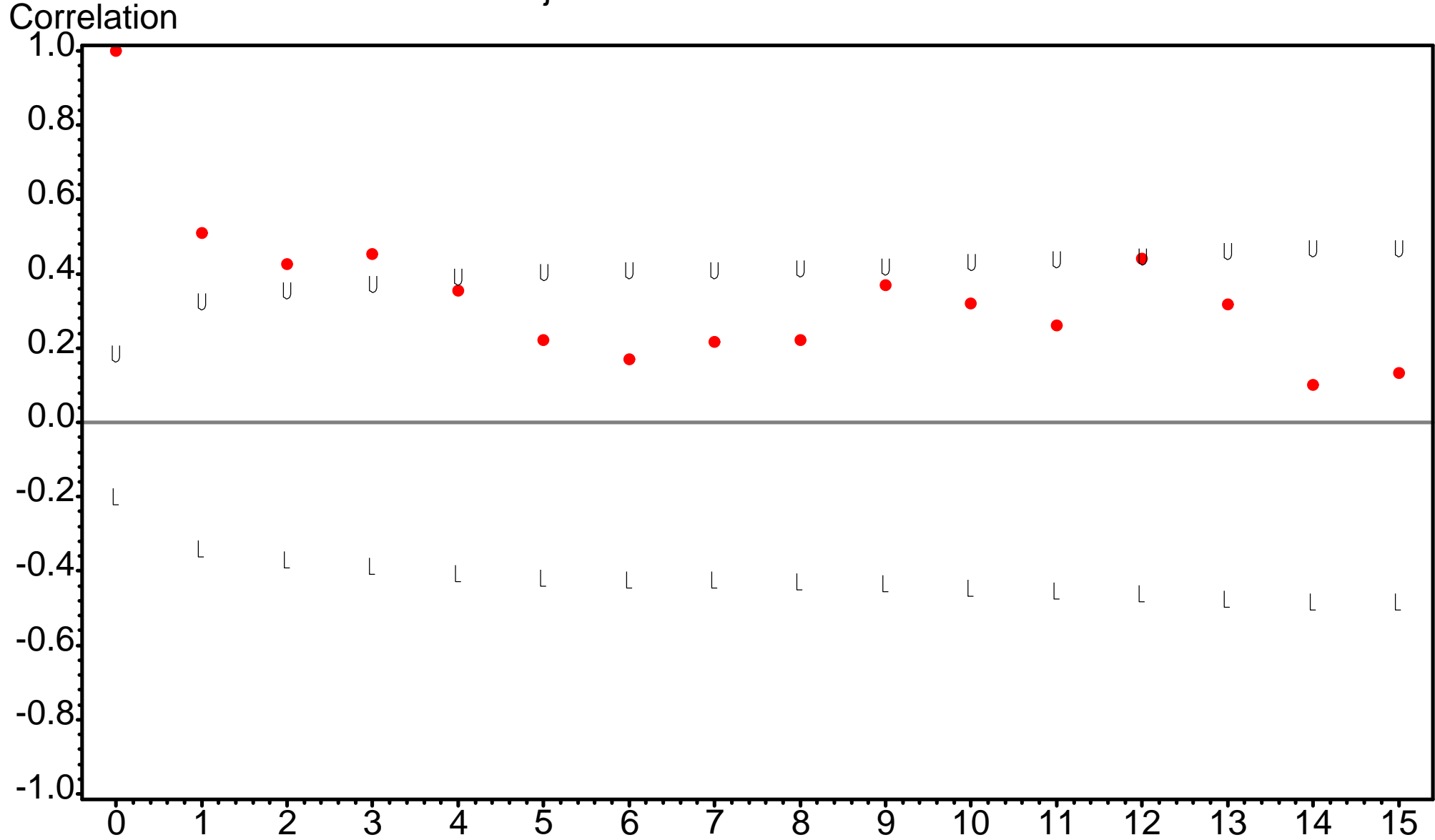
Pine Island Sound Trends Appendix - Display 1394
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Pine Island Sound

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.510	0.167	0.333	-0.333
2	0.427	0.181	0.361	-0.361
3	0.452	0.190	0.379	-0.379
4	0.355	0.199	0.399	-0.399
5	0.222	0.205	0.410	-0.410
6	0.171	0.207	0.415	-0.415
7	0.217	0.209	0.417	-0.417
8	0.222	0.211	0.422	-0.422
9	0.370	0.213	0.426	-0.426
10	0.320	0.219	0.438	-0.438
11	0.262	0.223	0.446	-0.446
12	0.440	0.226	0.452	-0.452
13	0.318	0.234	0.467	-0.467
14	0.101	0.238	0.475	-0.475
15	0.133	0.238	0.476	-0.476

Pine Island Sound Trends Appendix - Display 1395

Correlogram for Surface Total Kjeldahl Nitrogen in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1396
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Pine Island Sound
Unadjusted for Seasonal Medians

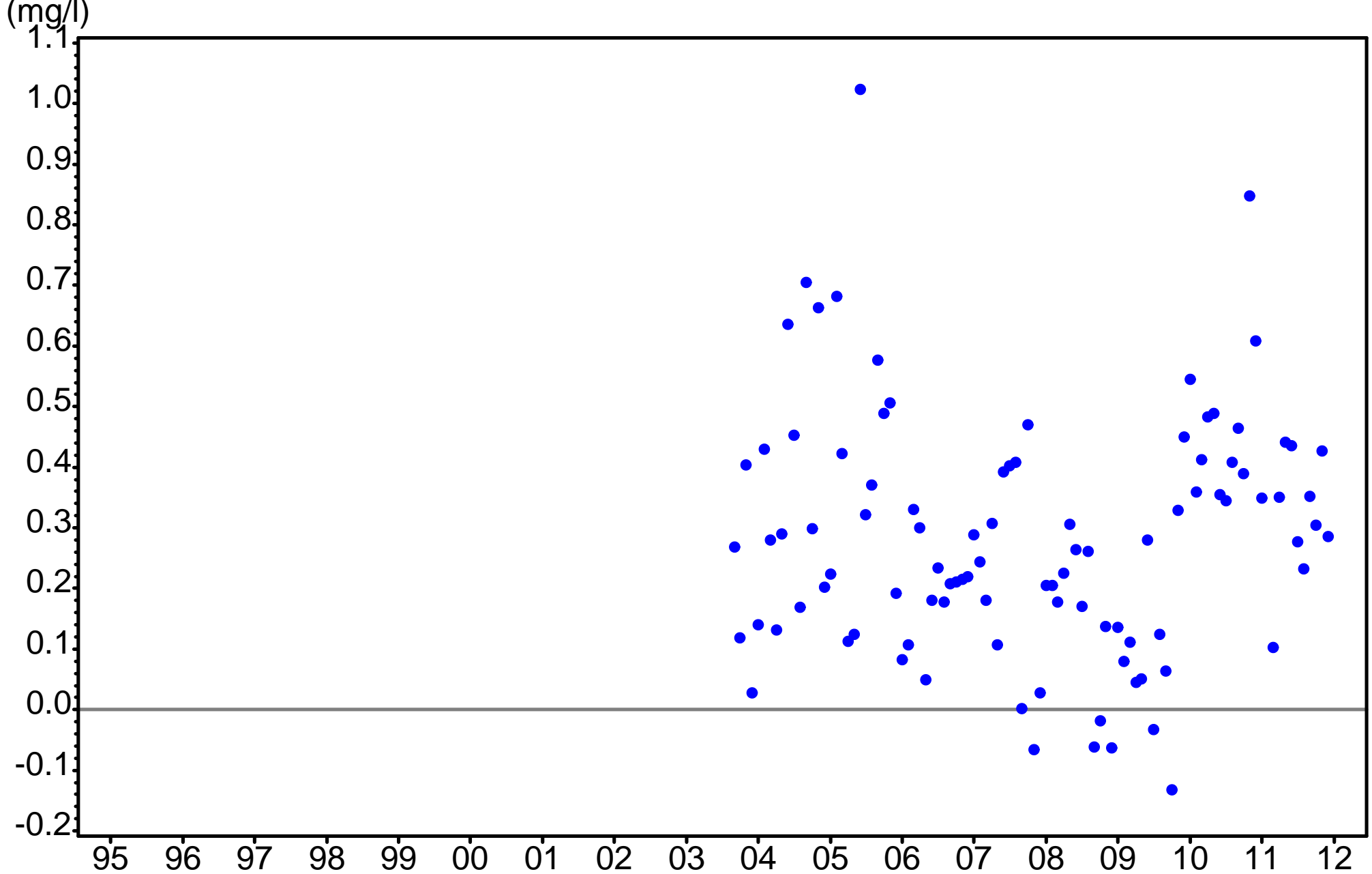
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.278	0	0	-0.04

Pine Island Sound Trends Appendix - Display 1397
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.33795	.000040567	0.10658	-0.0445

Pine Island Sound Trends Appendix - Display 1398

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted Pine Island Sound



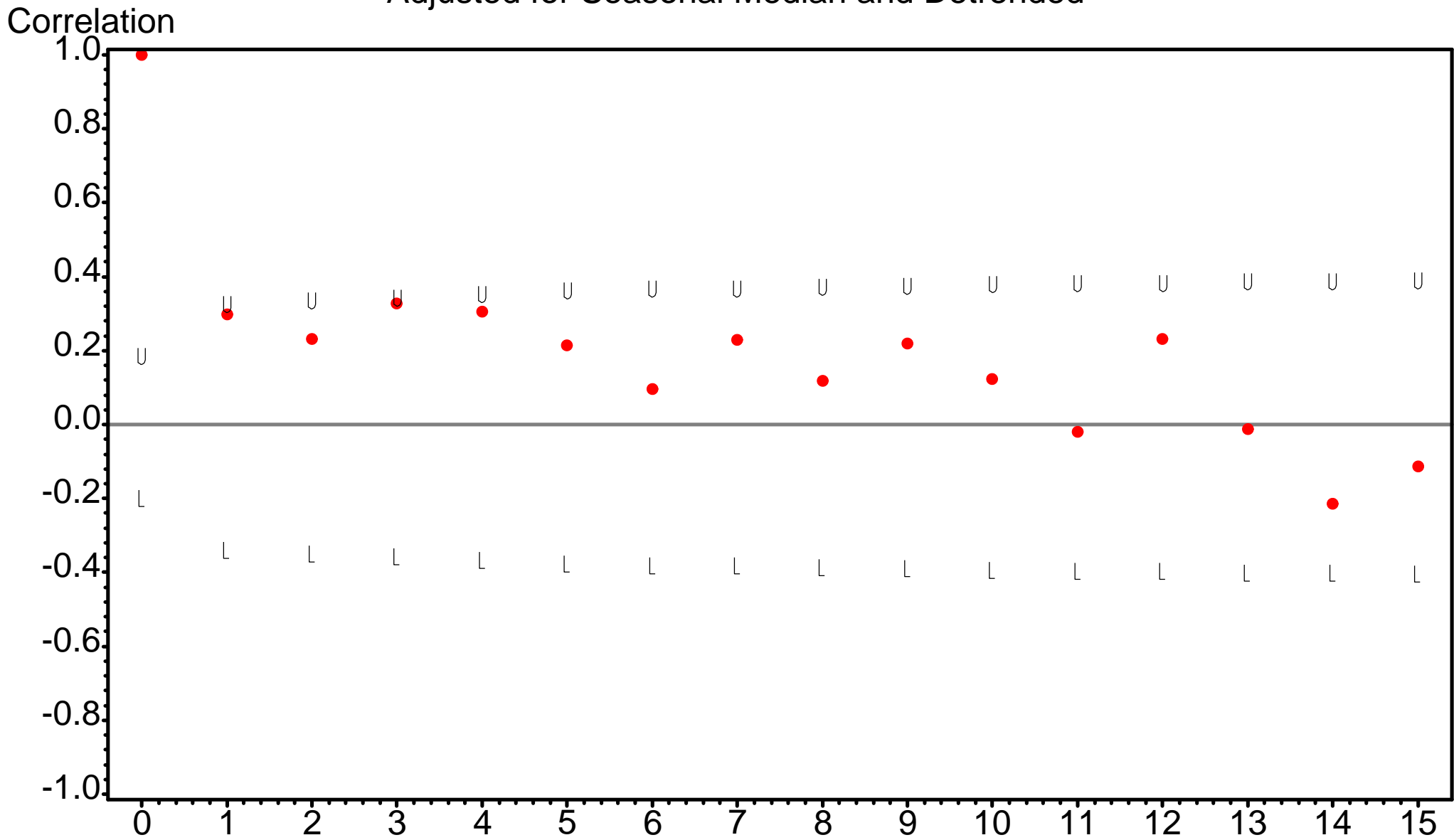
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1399
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.298	0.167	0.333	-0.333
2	0.231	0.172	0.343	-0.343
3	0.328	0.174	0.349	-0.349
4	0.306	0.180	0.360	-0.360
5	0.214	0.185	0.370	-0.370
6	0.095	0.187	0.374	-0.374
7	0.230	0.188	0.375	-0.375
8	0.118	0.190	0.380	-0.380
9	0.220	0.191	0.382	-0.382
10	0.122	0.193	0.386	-0.386
11	-0.019	0.194	0.388	-0.388
12	0.231	0.194	0.388	-0.388
13	-0.012	0.196	0.393	-0.393
14	-0.213	0.196	0.393	-0.393
15	-0.114	0.199	0.397	-0.397

Pine Island Sound Trends Appendix - Display 1400

Correlogram for Surface Total Kjeldahl Nitrogen in Pine Island Sound Adjusted for Seasonal Median and Detrended



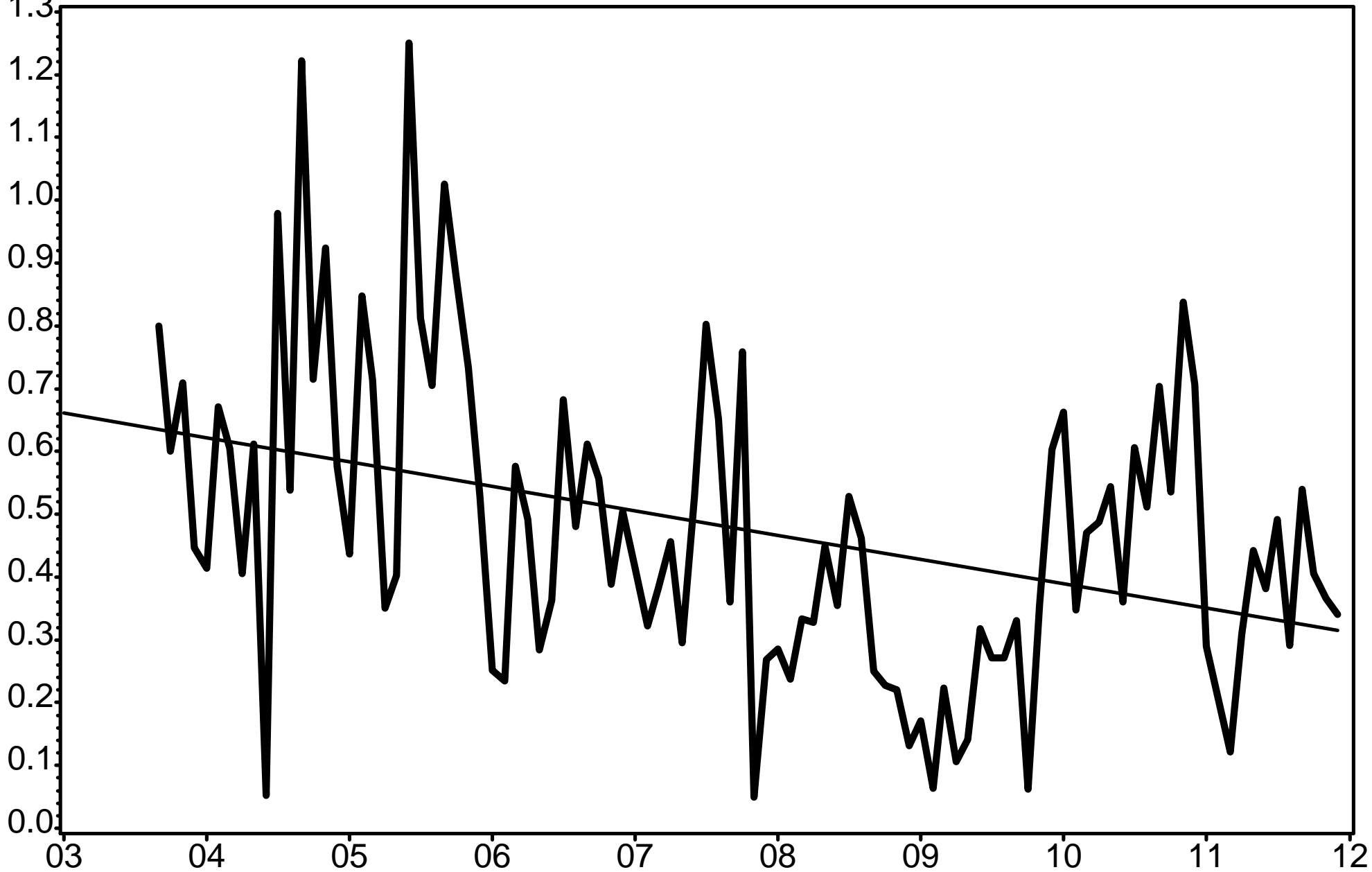
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1401

Monthly Data Time Series
for Surface Total Nitrogen in Pine Island Sound
Not Adjusted for Seasonal Medians

TN_mgl
(mg/l)



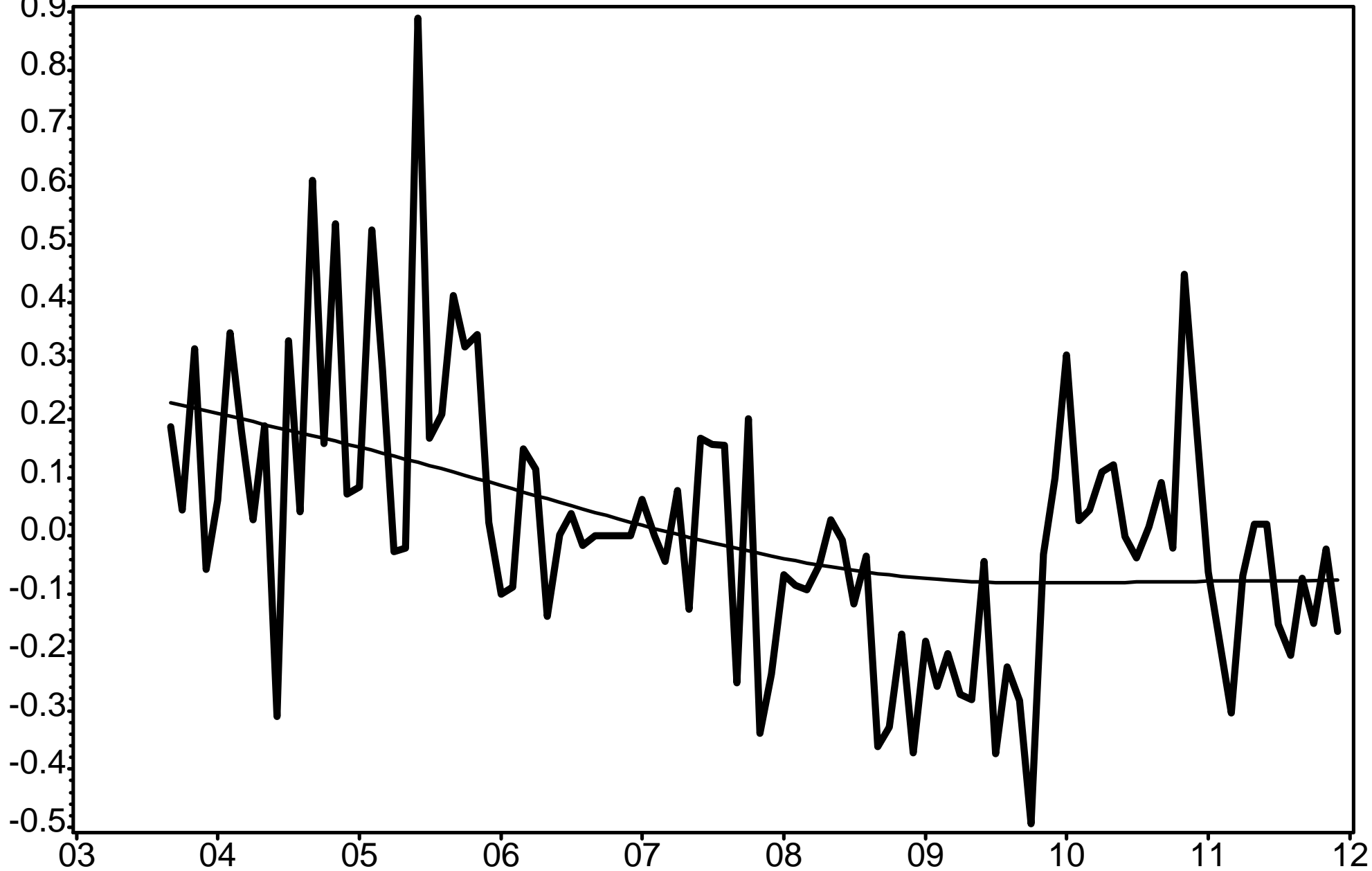
Pine Island Sound Trends Appendix - Display 1402

Monthly Data Time Series

for Surface Total Nitrogen in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

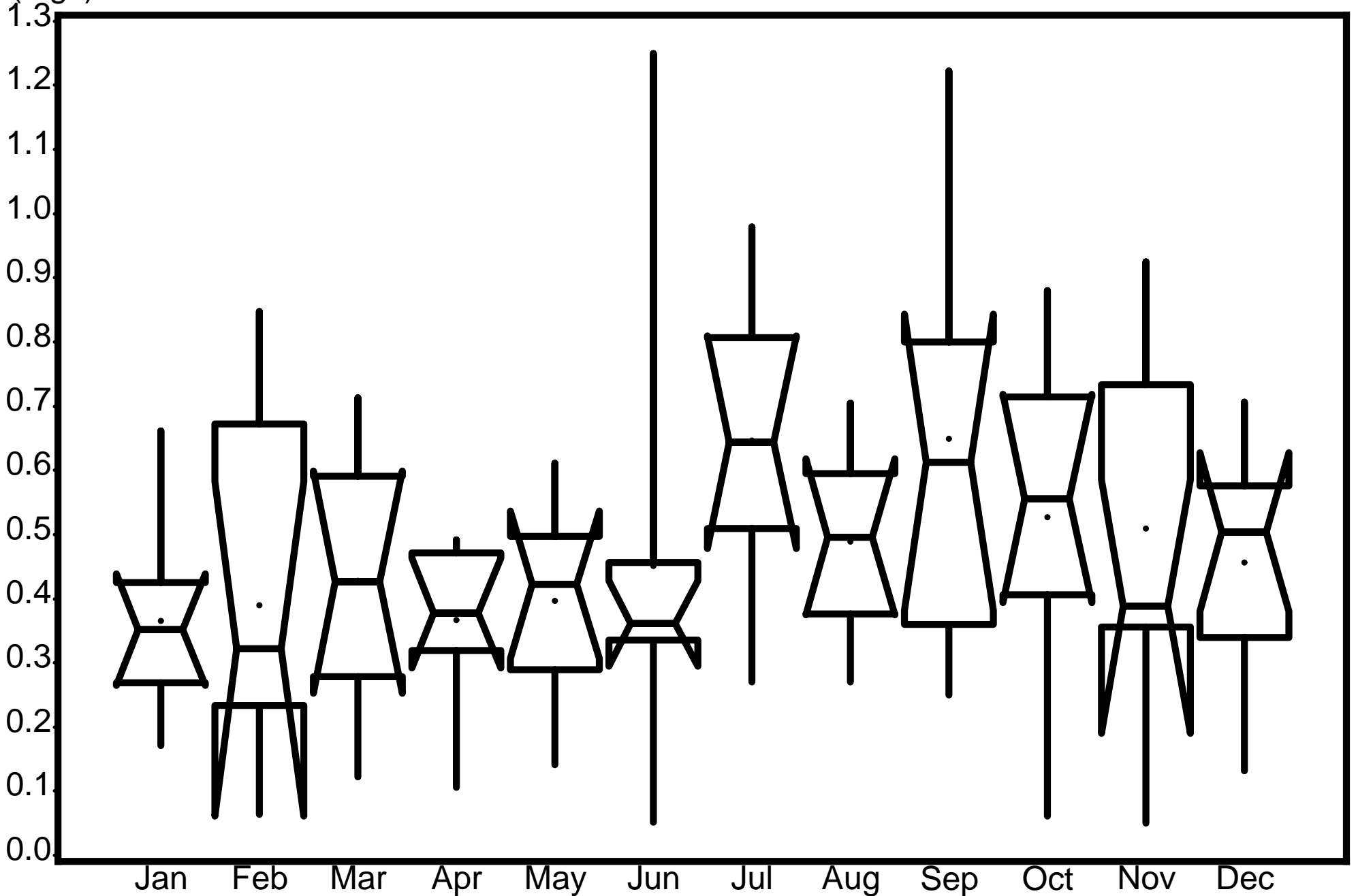


Pine Island Sound Trends Appendix - Display 1403

Seasonal Univariate Statistics

for Surface Total Nitrogen in Pine Island Sound

TN_mgl
(mg/l)



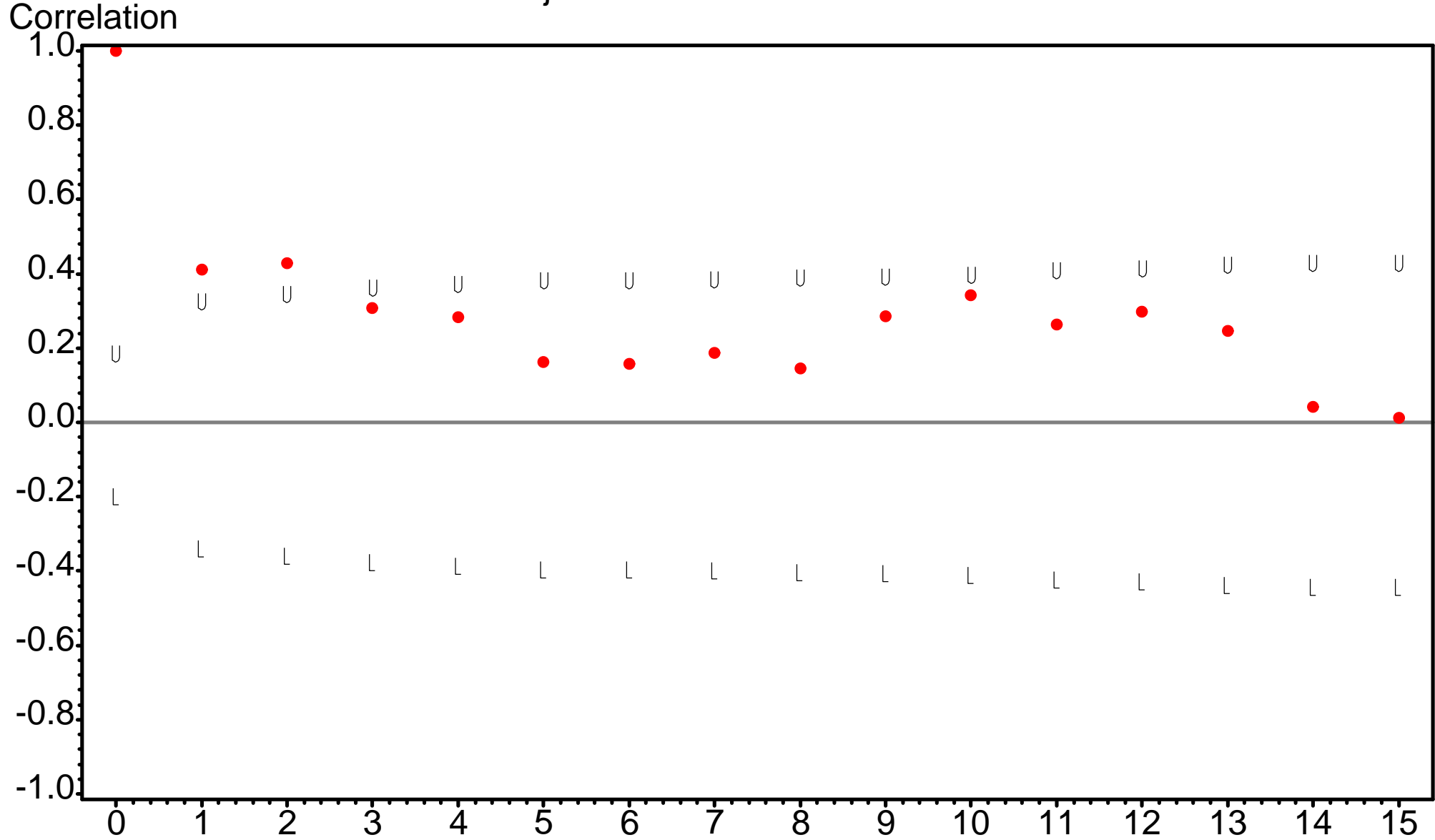
Pine Island Sound Trends Appendix - Display 1404
Autocorrelation Statistics for Surface Total Nitrogen in Pine Island Sound

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.410	0.167	0.333	-0.333
2	0.428	0.176	0.352	-0.352
3	0.309	0.185	0.370	-0.370
4	0.284	0.190	0.380	-0.380
5	0.163	0.194	0.388	-0.388
6	0.157	0.195	0.390	-0.390
7	0.186	0.196	0.392	-0.392
8	0.145	0.198	0.396	-0.396
9	0.285	0.199	0.398	-0.398
10	0.343	0.203	0.405	-0.405
11	0.263	0.208	0.416	-0.416
12	0.299	0.211	0.422	-0.422
13	0.246	0.215	0.430	-0.430
14	0.041	0.217	0.435	-0.435
15	0.013	0.217	0.435	-0.435

Pine Island Sound Trends Appendix - Display 1405

Correlogram for Surface Total Nitrogen in Pine Island Sound

Unadjusted for Seasonal Median



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1406
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.249	0	0	-0.037

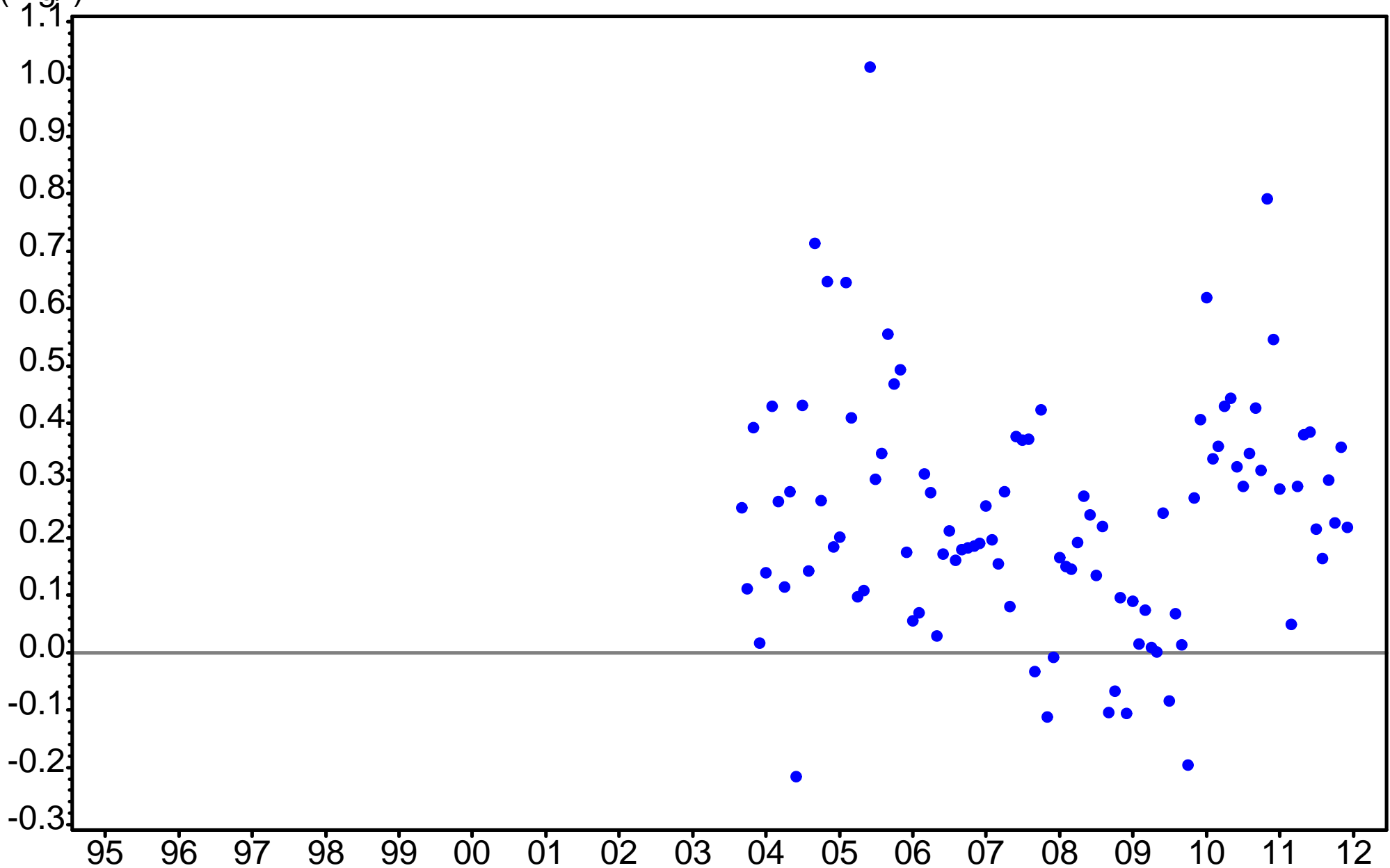
Pine Island Sound Trends Appendix - Display 1407
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.31579	.000126335	0.10891	-0.0386

Pine Island Sound Trends Appendix - Display 1408

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



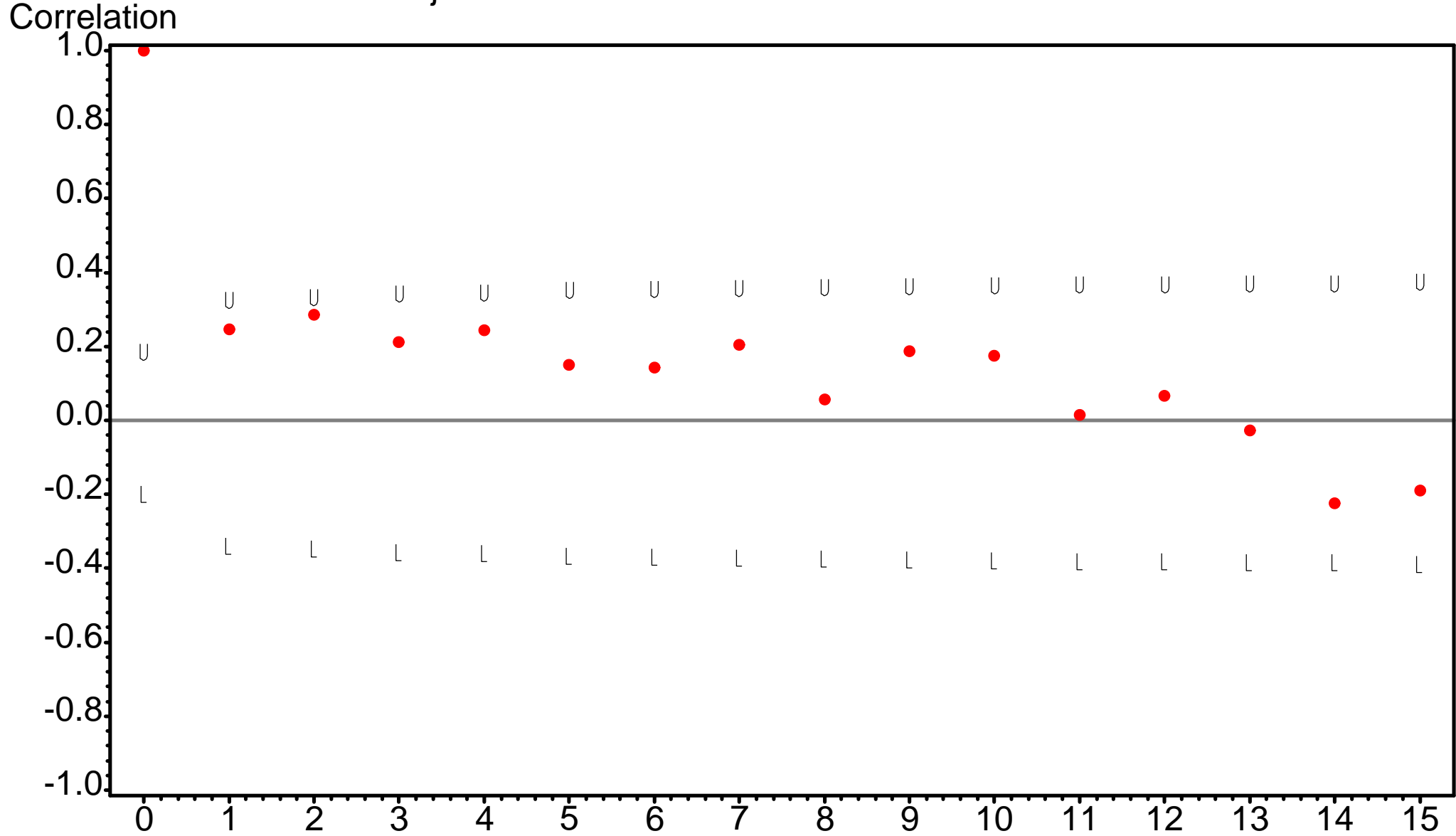
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1409
Autocorrelation Statistics for Surface Total Nitrogen in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.247	0.167	0.333	-0.333
2	0.286	0.170	0.340	-0.340
3	0.211	0.174	0.349	-0.349
4	0.244	0.177	0.353	-0.353
5	0.150	0.180	0.360	-0.360
6	0.142	0.181	0.362	-0.362
7	0.204	0.182	0.364	-0.364
8	0.057	0.184	0.368	-0.368
9	0.188	0.184	0.369	-0.369
10	0.175	0.186	0.372	-0.372
11	0.015	0.188	0.375	-0.375
12	0.067	0.188	0.375	-0.375
13	-0.027	0.188	0.376	-0.376
14	-0.225	0.188	0.376	-0.376
15	-0.189	0.190	0.381	-0.381

Pine Island Sound Trends Appendix - Display 1410

Correlogram for Surface Total Nitrogen in Pine Island Sound Adjusted for Seasonal Median and Detrended



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

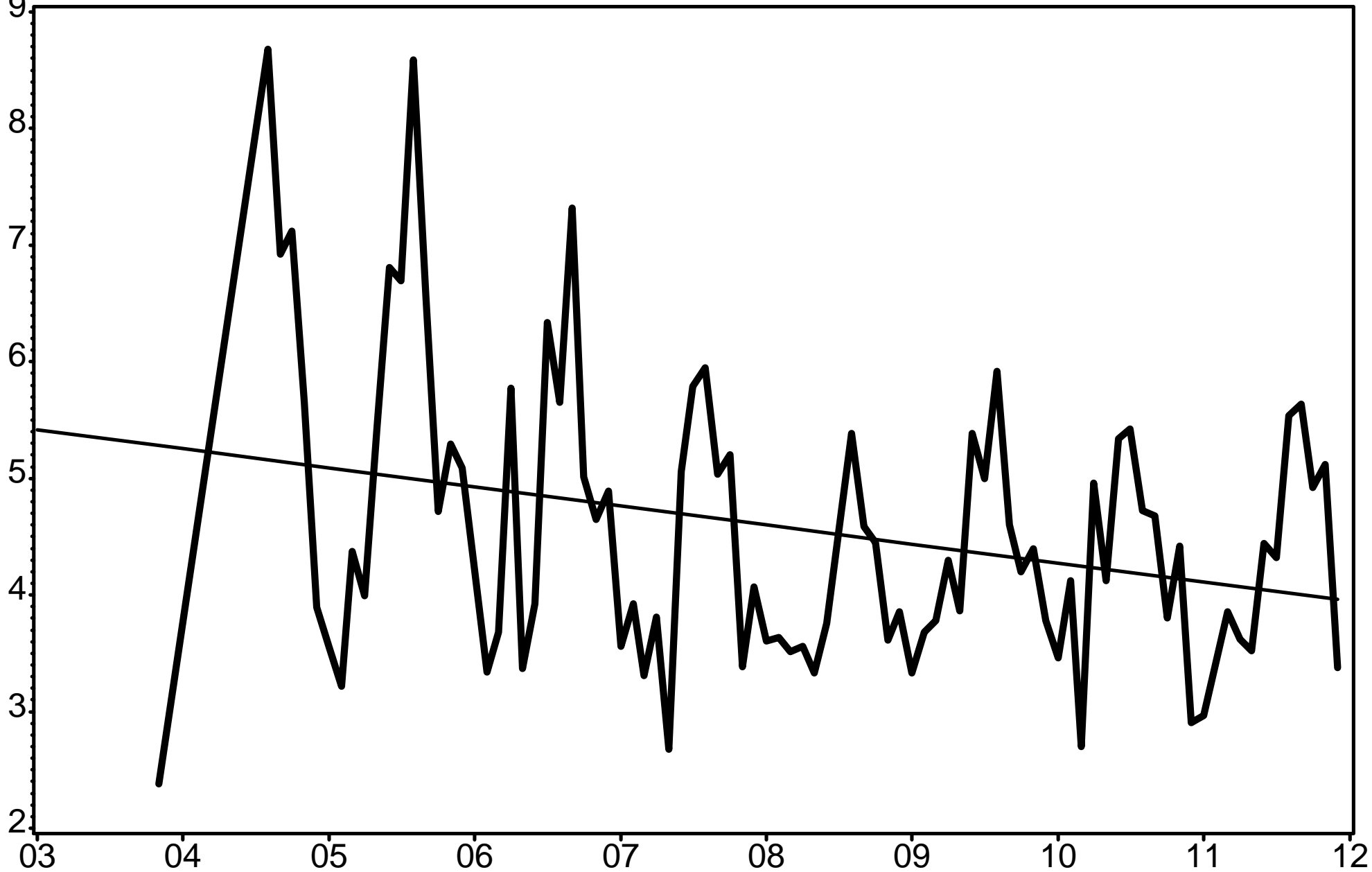
Pine Island Sound Trends Appendix - Display 1411

Monthly Data Time Series

for Surface Total Organic Carbon in Pine Island Sound

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



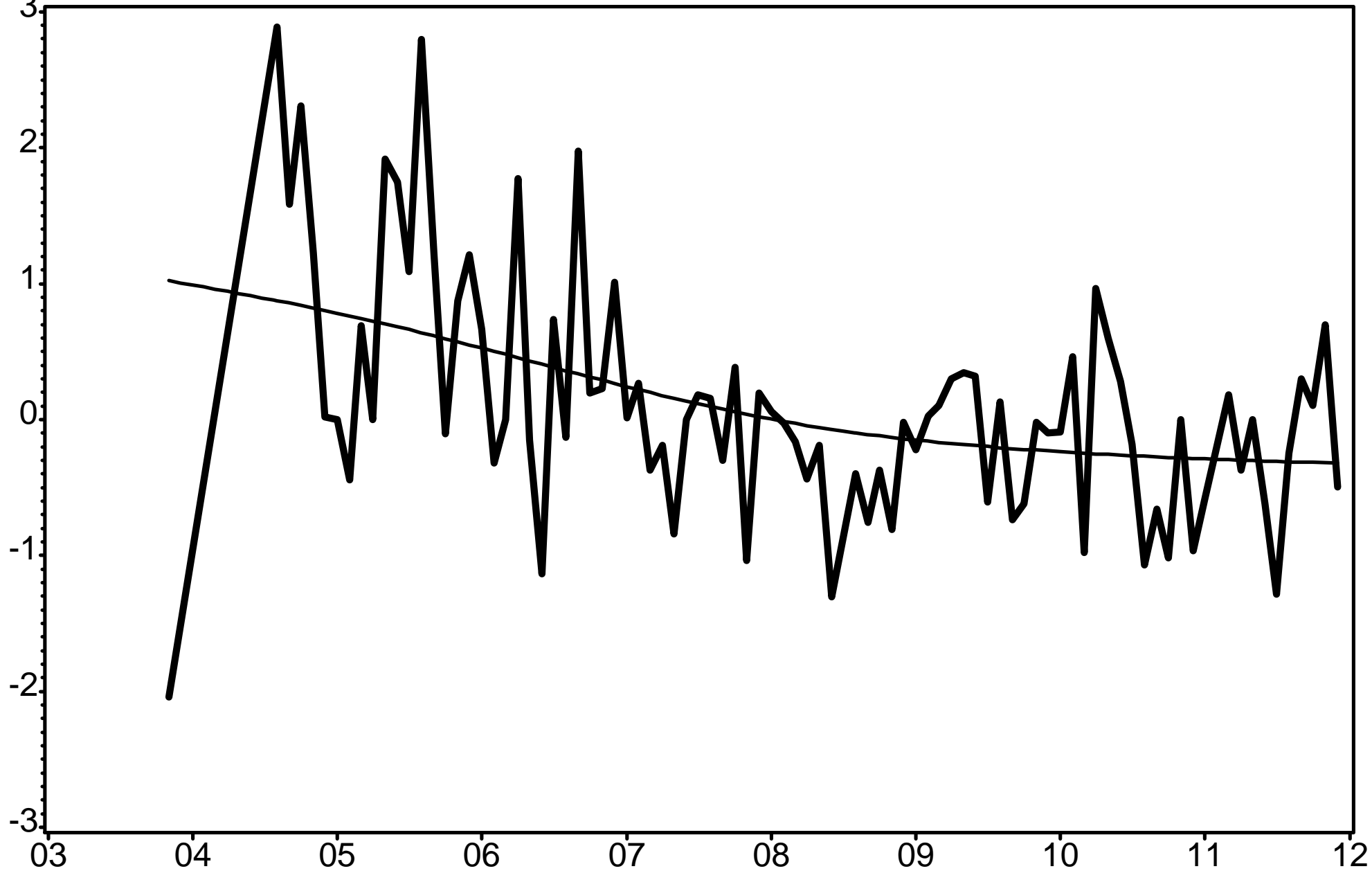
Pine Island Sound Trends Appendix - Display 1412

Monthly Data Time Series

for Surface Total Organic Carbon in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

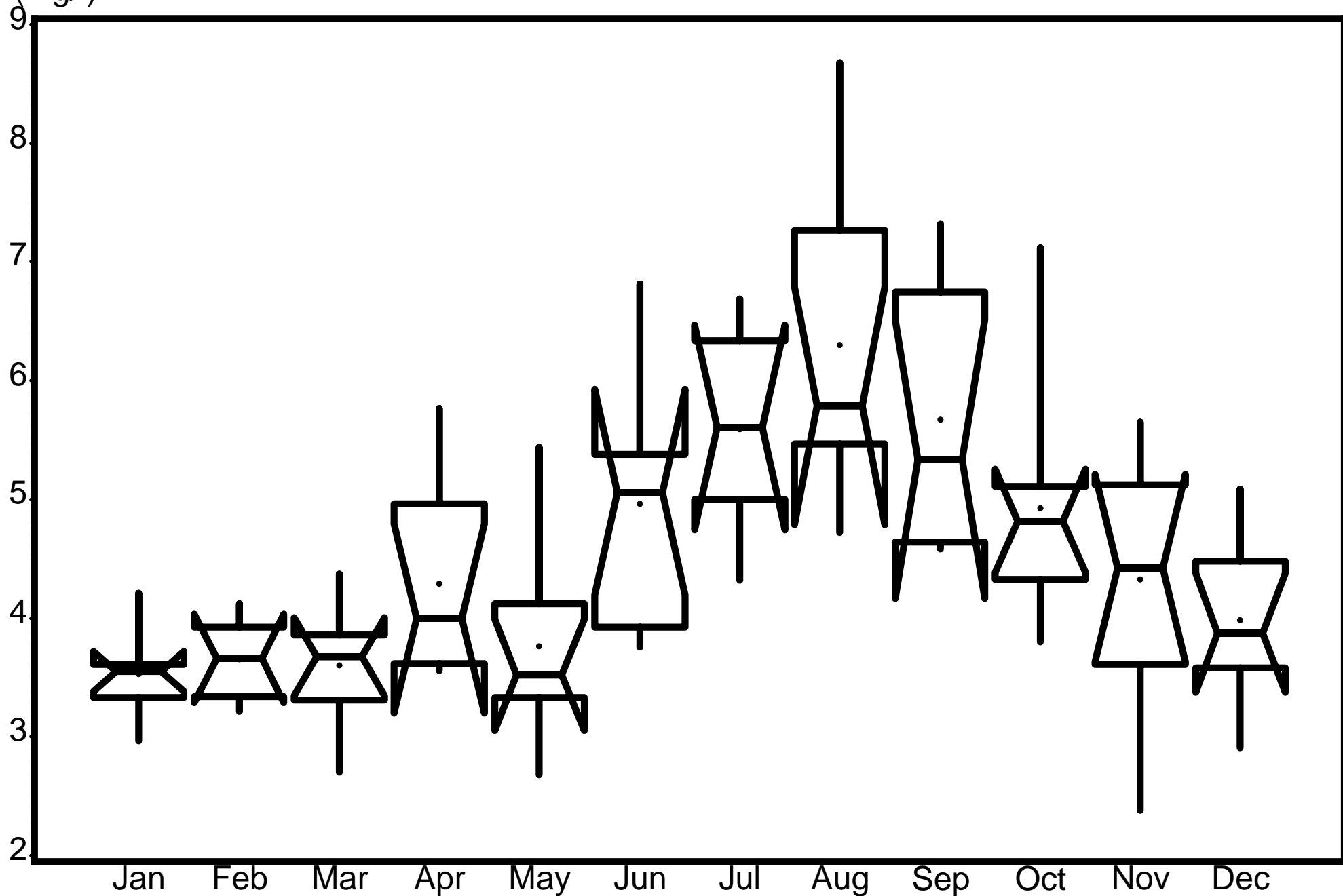


Pine Island Sound Trends Appendix - Display 1413

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Pine Island Sound

TOC_mgl
(mg/l)

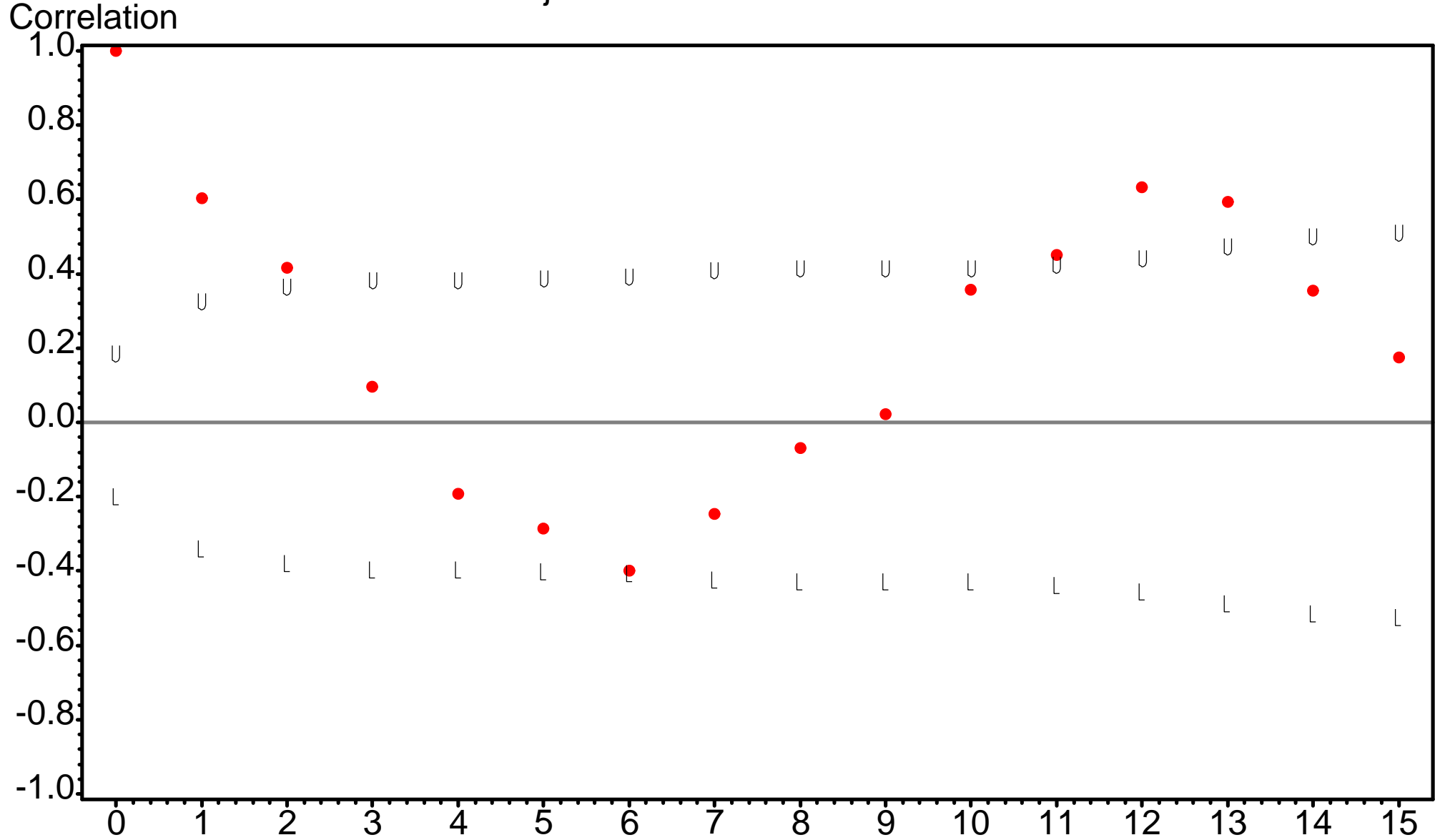


Pine Island Sound Trends Appendix - Display 1414
 Autocorrelation Statistics for Surface Total Organic Carbon in Pine Island Sound

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.604	0.167	0.333	-0.333
2	0.415	0.186	0.372	-0.372
3	0.097	0.194	0.388	-0.388
4	-0.191	0.195	0.389	-0.389
5	-0.285	0.196	0.393	-0.393
6	-0.400	0.200	0.400	-0.400
7	-0.245	0.207	0.415	-0.415
8	-0.068	0.210	0.420	-0.420
9	0.023	0.210	0.421	-0.421
10	0.356	0.210	0.421	-0.421
11	0.450	0.216	0.432	-0.432
12	0.633	0.224	0.449	-0.449
13	0.594	0.240	0.481	-0.481
14	0.354	0.254	0.507	-0.507
15	0.174	0.258	0.516	-0.516

Pine Island Sound Trends Appendix - Display 1415

Correlogram for Surface Total Organic Carbon in Pine Island Sound Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1416
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.135	0.062	0.062	-0.117

Pine Island Sound Trends Appendix - Display 1417
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Pine Island Sound
Adjusted for Seasonal Medians

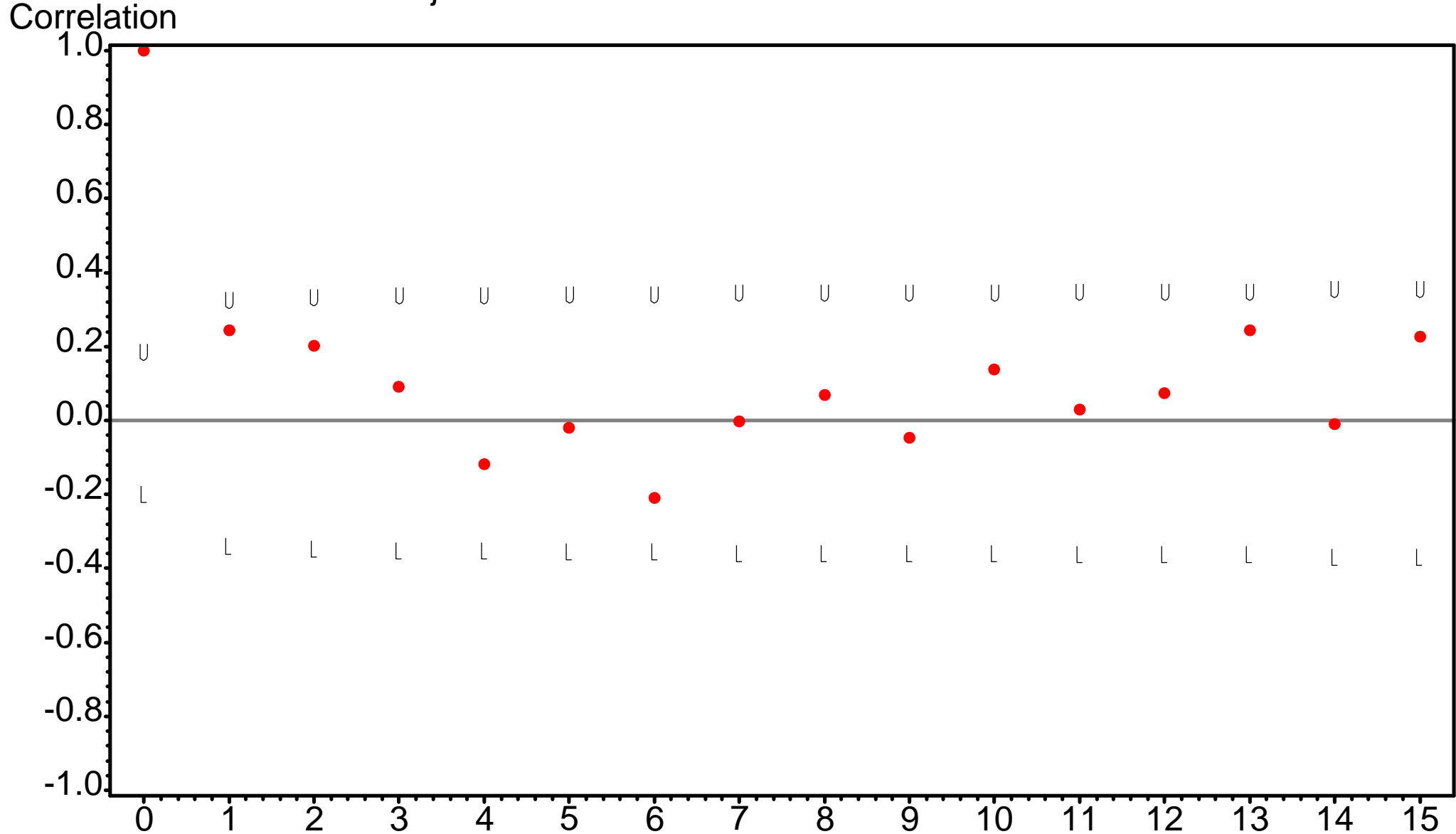
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.28622	.0014572	0.057631	-0.15933

Pine Island Sound Trends Appendix - Display 1419
 Autocorrelation Statistics for Surface Total Organic Carbon in Pine Island Sound
 Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.244	0.167	0.333	-0.333
2	0.203	0.170	0.340	-0.340
3	0.091	0.172	0.344	-0.344
4	-0.117	0.173	0.345	-0.345
5	-0.020	0.173	0.347	-0.347
6	-0.209	0.173	0.347	-0.347
7	-0.003	0.176	0.351	-0.351
8	0.069	0.176	0.351	-0.351
9	-0.047	0.176	0.352	-0.352
10	0.137	0.176	0.352	-0.352
11	0.029	0.177	0.354	-0.354
12	0.074	0.177	0.354	-0.354
13	0.243	0.177	0.355	-0.355
14	-0.011	0.180	0.361	-0.361
15	0.227	0.180	0.361	-0.361

Pine Island Sound Trends Appendix - Display 1420

Correlogram for Surface Total Organic Carbon in Pine Island Sound Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

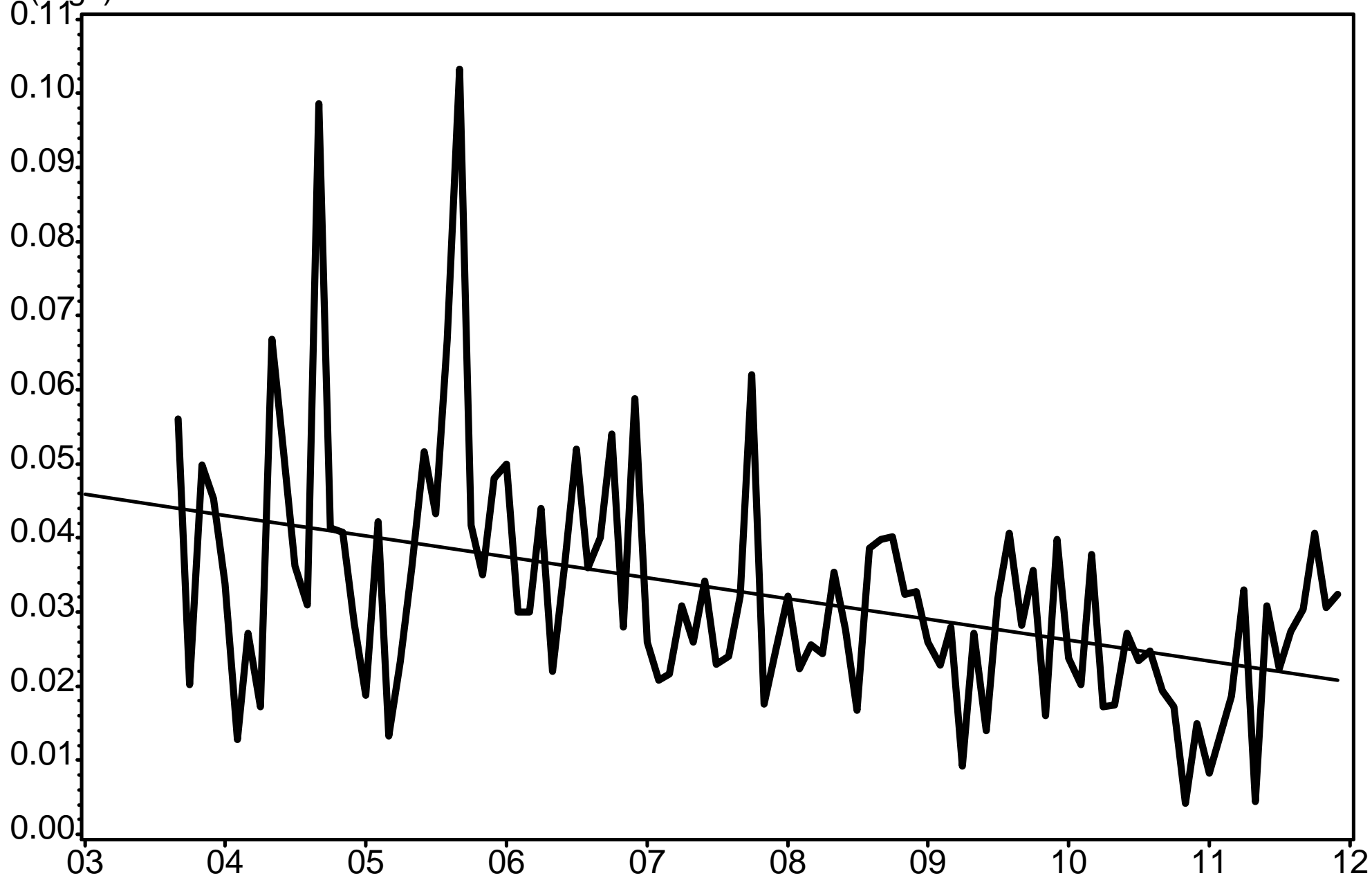
Pine Island Sound Trends Appendix - Display 1421

Monthly Data Time Series

for Surface Total Phosphorous in Pine Island Sound

Not Adjusted for Seasonal Medians

TPO4_mgl
(mg/l)



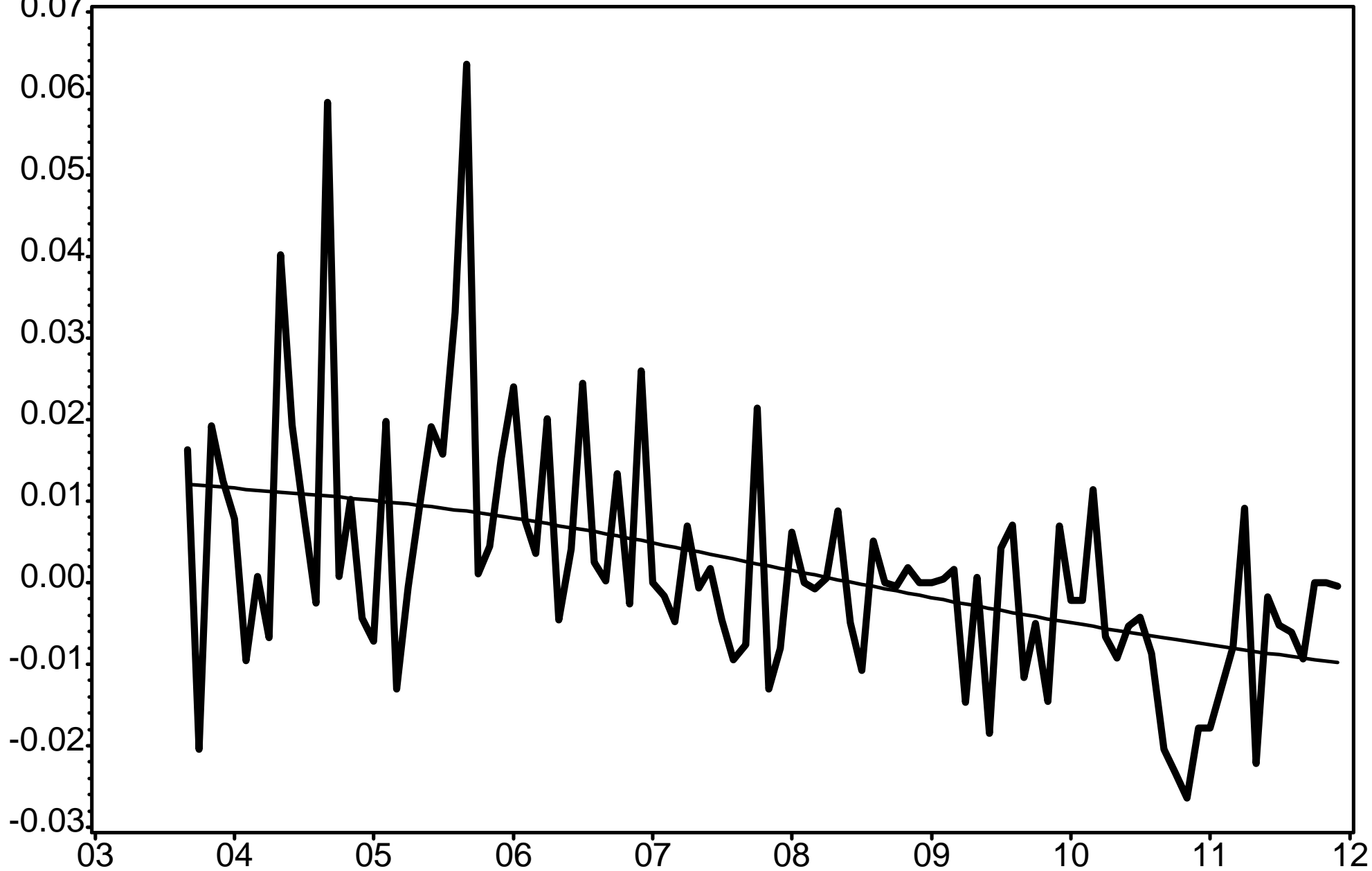
Pine Island Sound Trends Appendix - Display 1422

Monthly Data Time Series

for Surface Total Phosphorous in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TPO4_mgl
(mg/l)

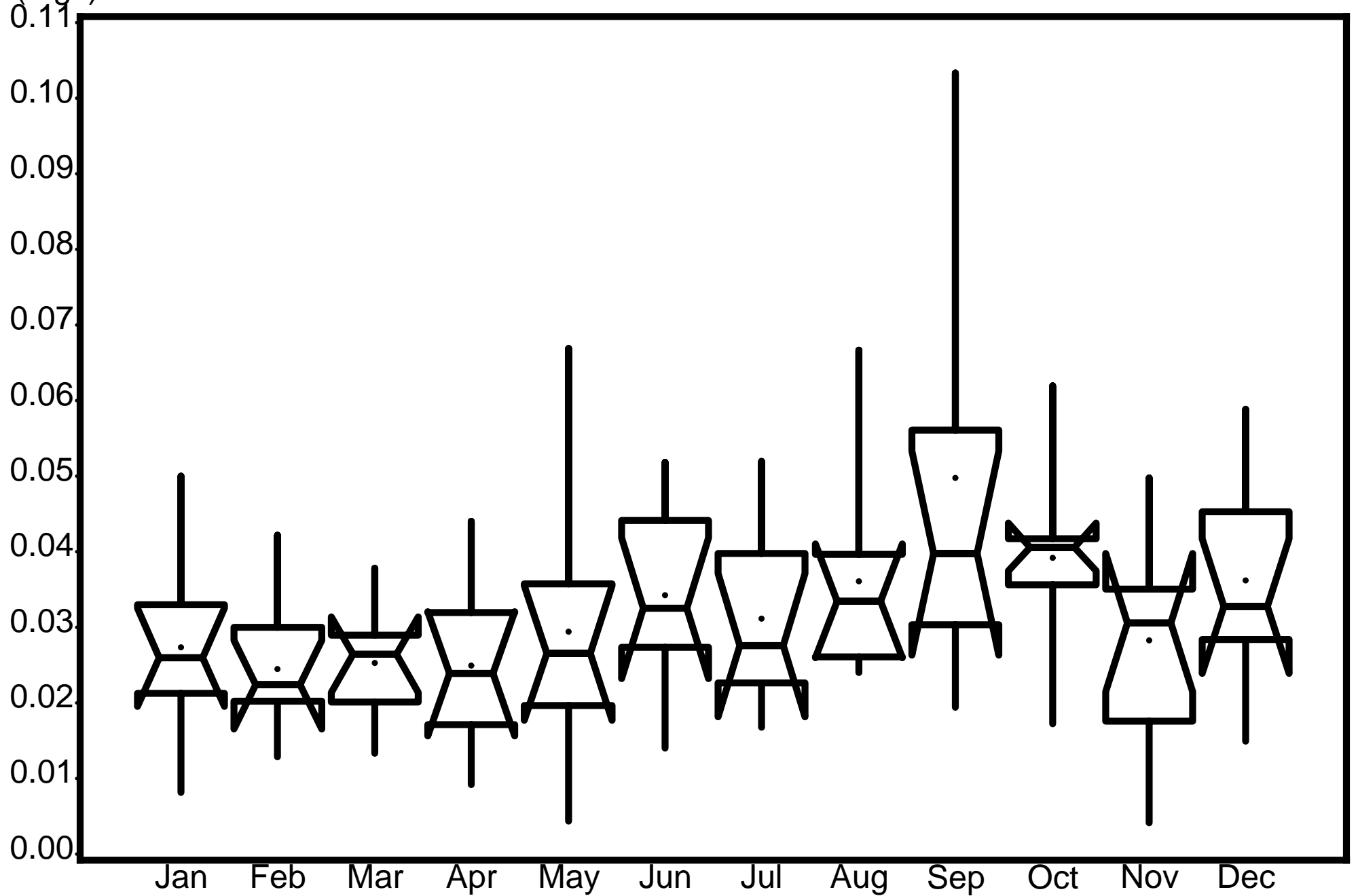


Pine Island Sound Trends Appendix - Display 1423

Seasonal Univariate Statistics

for Surface Total Phosphorous in Pine Island Sound

TPO4_mgl
(mg/l)

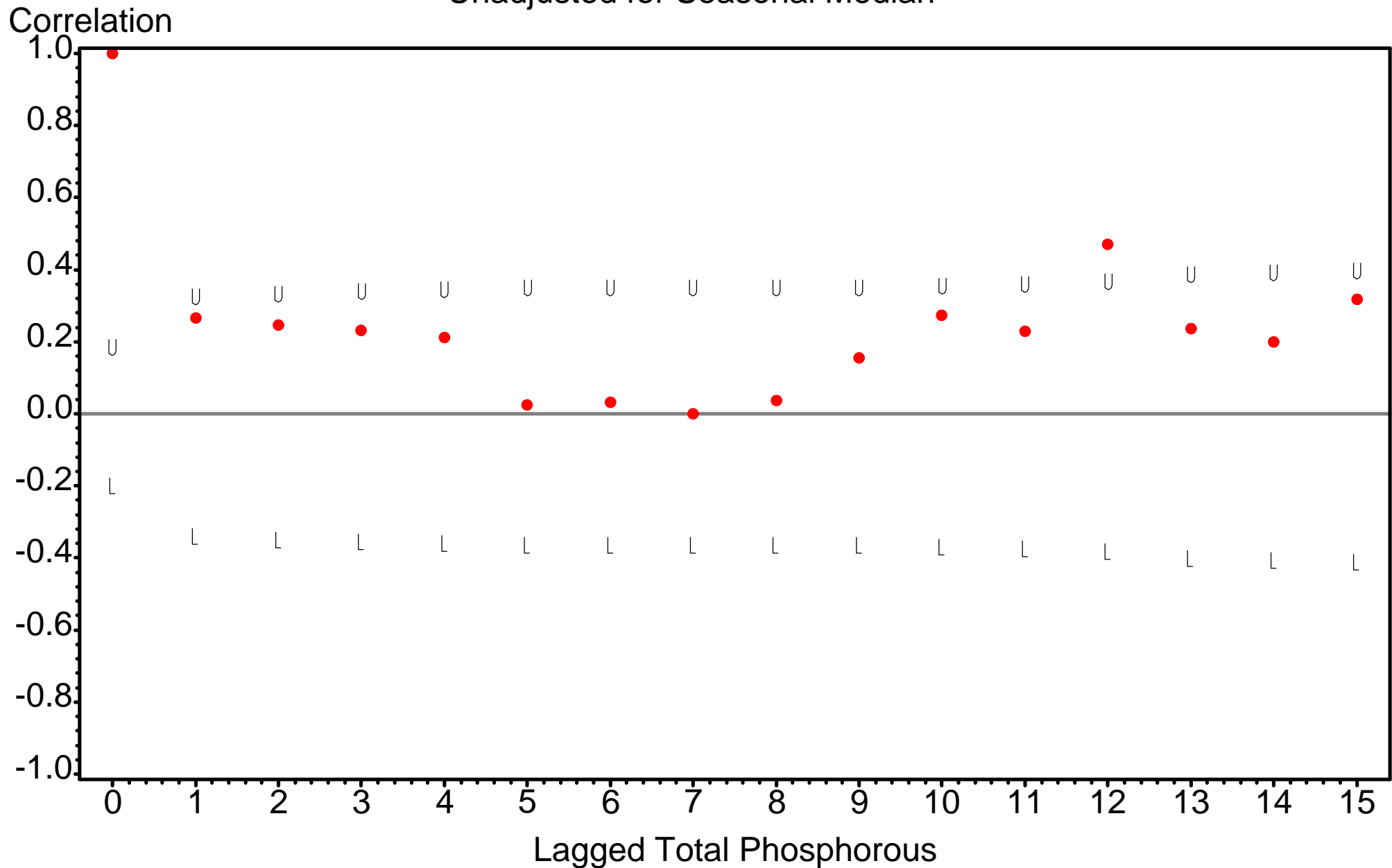


Pine Island Sound Trends Appendix - Display 1424
Autocorrelation Statistics for Surface Total Phosphorous in Pine Island Sound

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.265	0.167	0.333	-0.333
2	0.246	0.171	0.341	-0.341
3	0.232	0.174	0.348	-0.348
4	0.212	0.177	0.353	-0.353
5	0.024	0.179	0.358	-0.358
6	0.032	0.179	0.358	-0.358
7	0.000	0.179	0.358	-0.358
8	0.037	0.179	0.358	-0.358
9	0.155	0.179	0.358	-0.358
10	0.274	0.180	0.361	-0.361
11	0.230	0.184	0.368	-0.368
12	0.471	0.187	0.374	-0.374
13	0.236	0.198	0.395	-0.395
14	0.200	0.200	0.400	-0.400
15	0.317	0.202	0.404	-0.404

Pine Island Sound Trends Appendix - Display 1425

Correlogram for Surface Total Phosphorous in Pine Island Sound Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1426
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.276	0	0	-.002

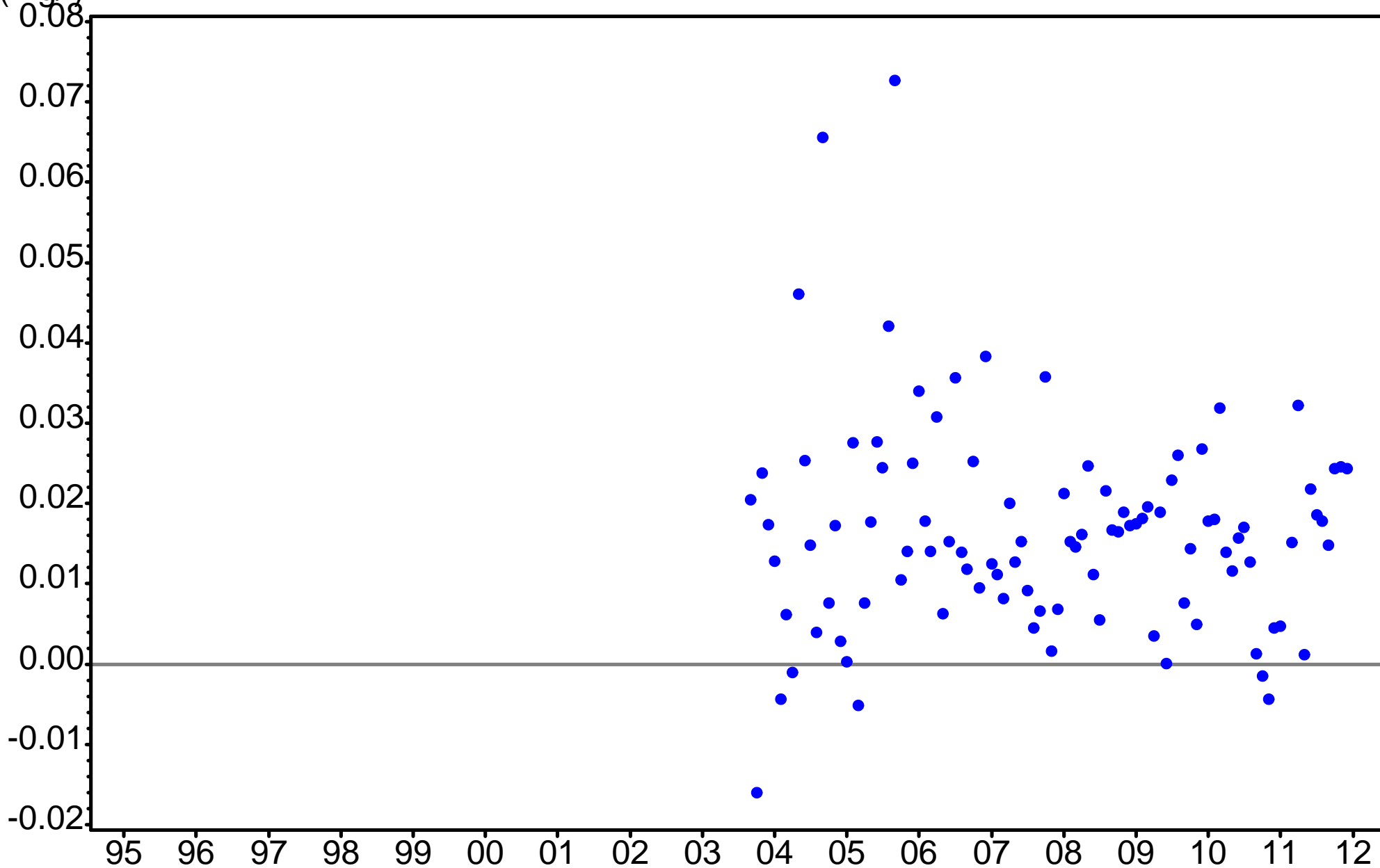
Pine Island Sound Trends Appendix - Display 1427
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.34072	.000031219	0.023062	-.0025

Pine Island Sound Trends Appendix - Display 1428

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(mg/l)



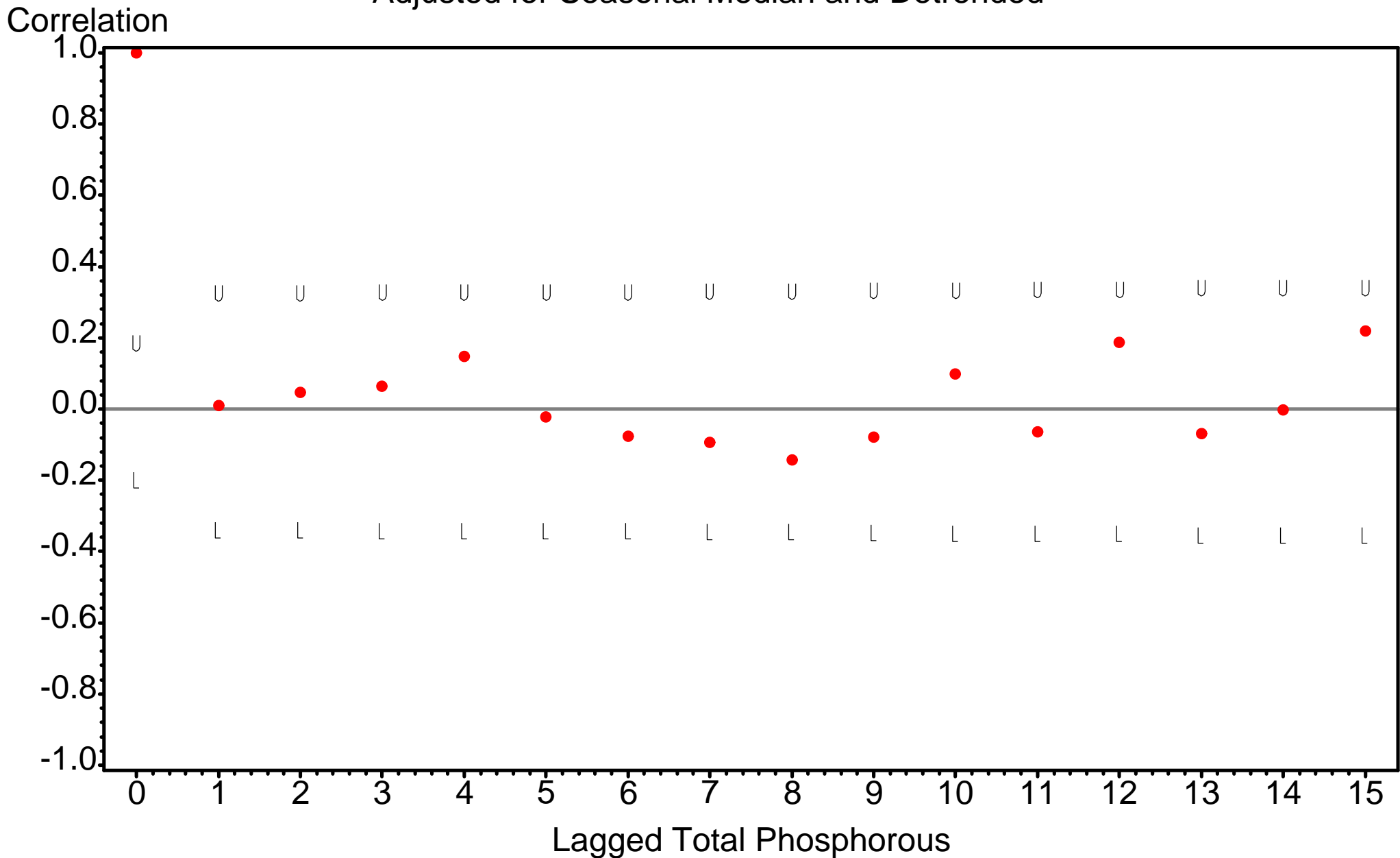
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1429
Autocorrelation Statistics for Surface Total Phosphorous in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.010	0.167	0.333	-0.333
2	0.047	0.167	0.333	-0.333
3	0.063	0.167	0.334	-0.334
4	0.147	0.167	0.334	-0.334
5	-0.023	0.168	0.336	-0.336
6	-0.076	0.168	0.336	-0.336
7	-0.093	0.169	0.337	-0.337
8	-0.143	0.169	0.338	-0.338
9	-0.078	0.170	0.340	-0.340
10	0.098	0.170	0.341	-0.341
11	-0.063	0.171	0.342	-0.342
12	0.187	0.171	0.342	-0.342
13	-0.069	0.173	0.346	-0.346
14	-0.003	0.173	0.347	-0.347
15	0.218	0.173	0.347	-0.347

Pine Island Sound Trends Appendix - Display 1430

Correlogram for Surface Total Phosphorous in Pine Island Sound Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

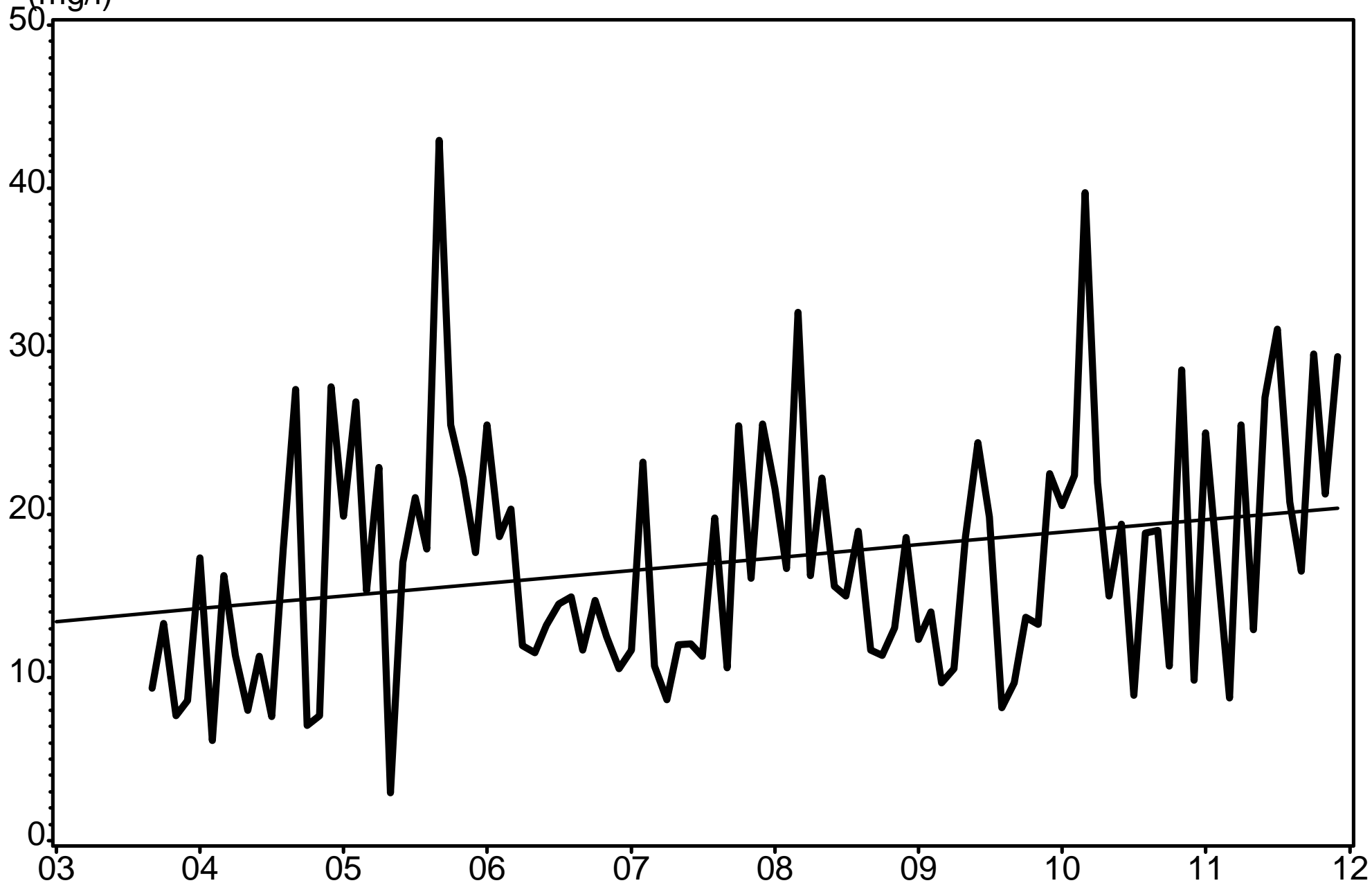
Pine Island Sound Trends Appendix - Display 1431

Monthly Data Time Series

for Surface Total Suspended Solids in Pine Island Sound

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



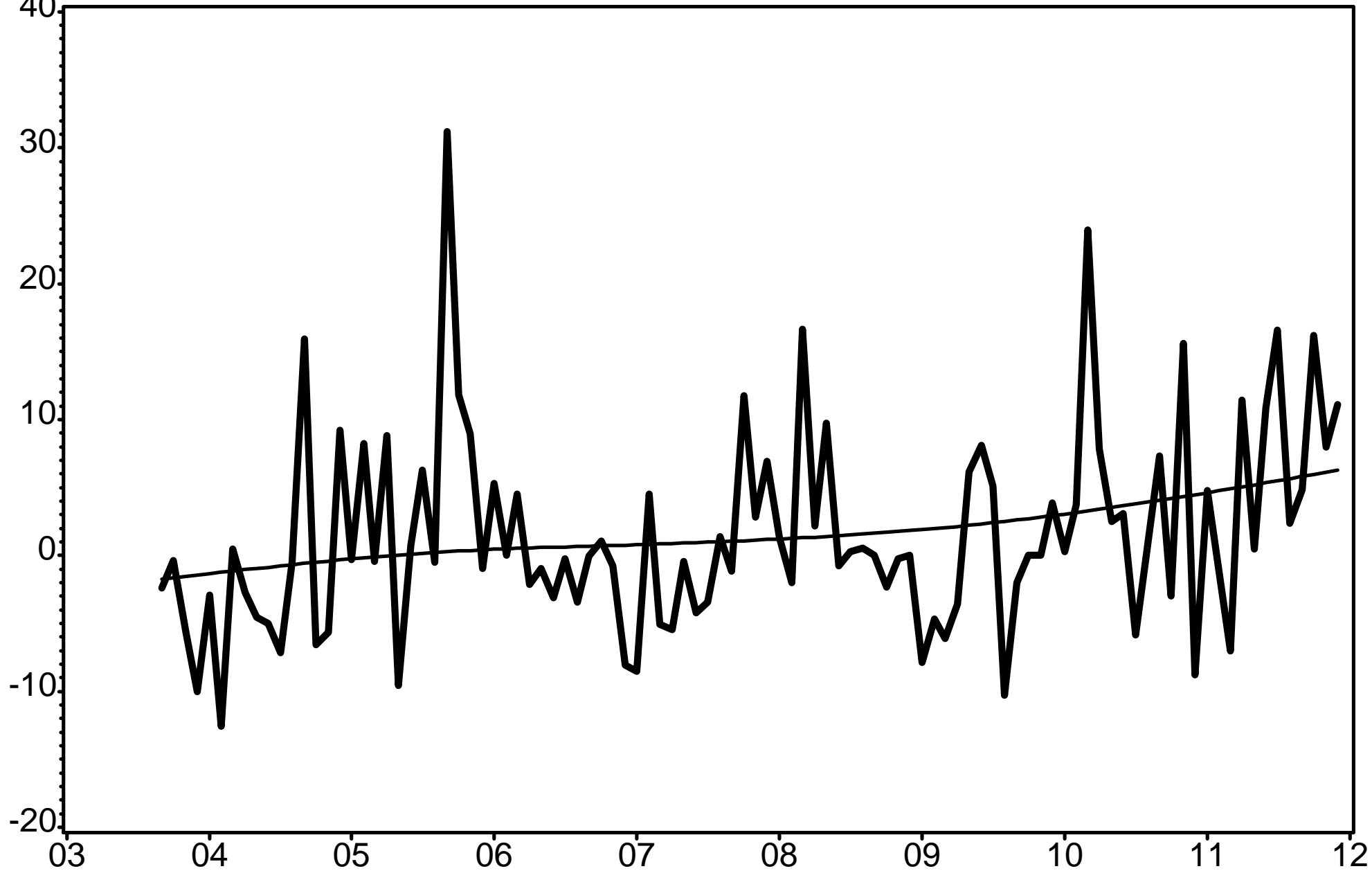
Pine Island Sound Trends Appendix - Display 1432

Monthly Data Time Series

for Surface Total Suspended Solids in Pine Island Sound

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

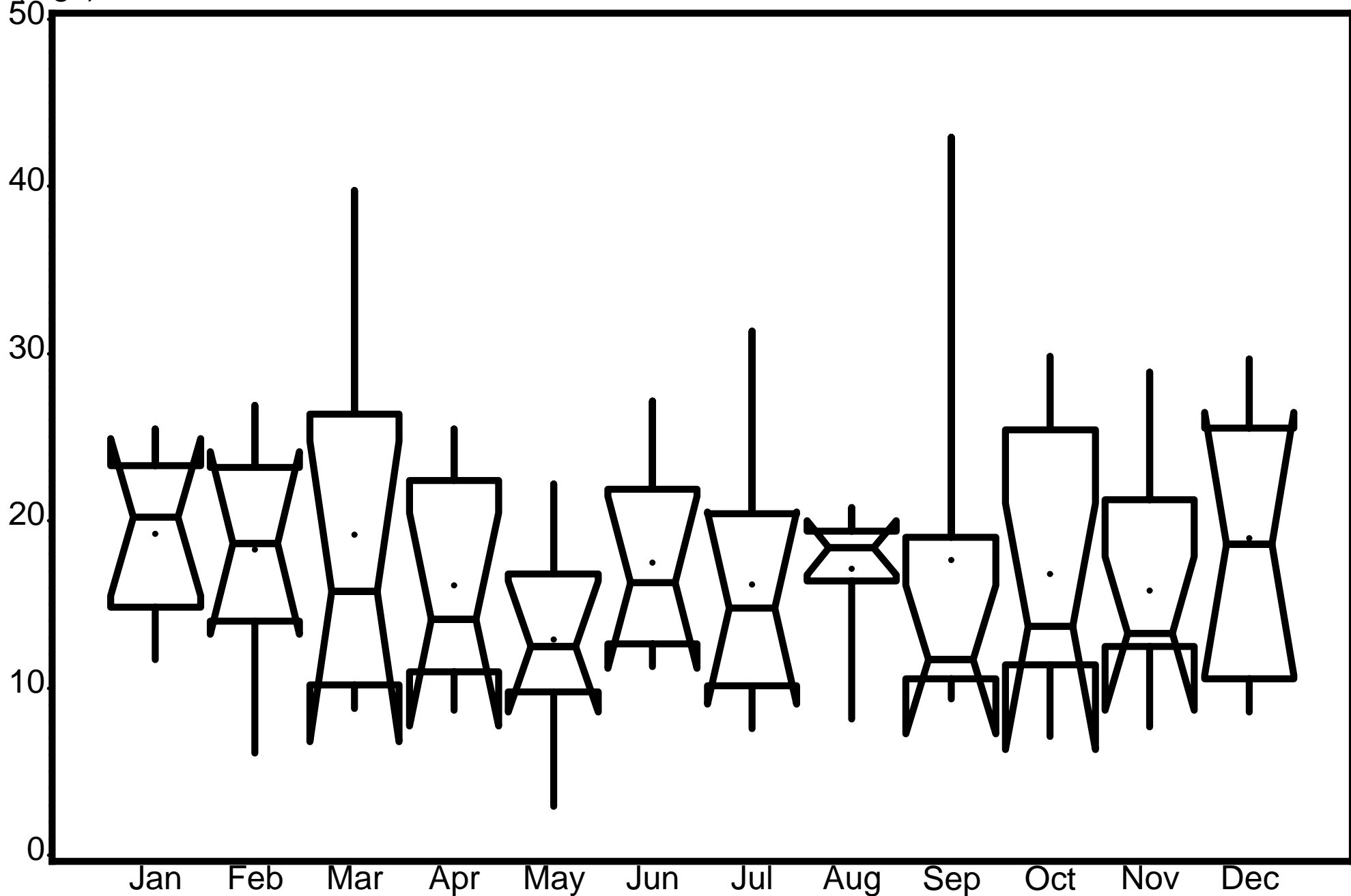


Pine Island Sound Trends Appendix - Display 1433

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Pine Island Sound

TSS_mgl
(mg/l)



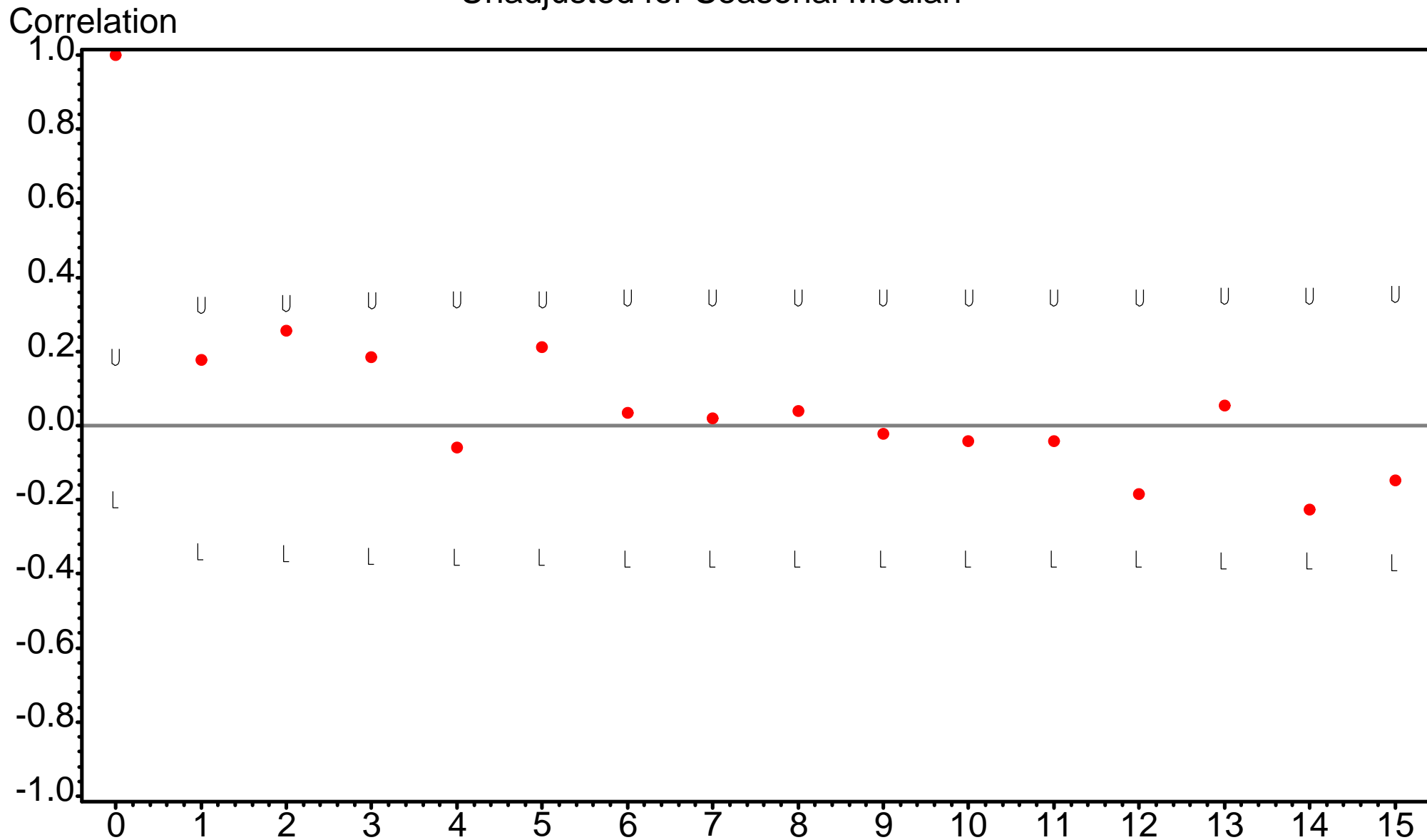
Pine Island Sound Trends Appendix - Display 1434
Autocorrelation Statistics for Surface Total Suspended Solids in Pine Island Sound

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.178	0.167	0.333	-0.333
2	0.257	0.168	0.337	-0.337
3	0.185	0.172	0.344	-0.344
4	-0.058	0.174	0.348	-0.348
5	0.211	0.174	0.348	-0.348
6	0.034	0.176	0.353	-0.353
7	0.019	0.176	0.353	-0.353
8	0.039	0.176	0.353	-0.353
9	-0.021	0.177	0.353	-0.353
10	-0.043	0.177	0.353	-0.353
11	-0.041	0.177	0.353	-0.353
12	-0.184	0.177	0.353	-0.353
13	0.055	0.179	0.357	-0.357
14	-0.226	0.179	0.357	-0.357
15	-0.147	0.181	0.363	-0.363

Pine Island Sound Trends Appendix - Display 1435

Correlogram for Surface Total Suspended Solids in Pine Island Sound

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1436
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Pine Island Sound
Unadjusted for Seasonal Medians

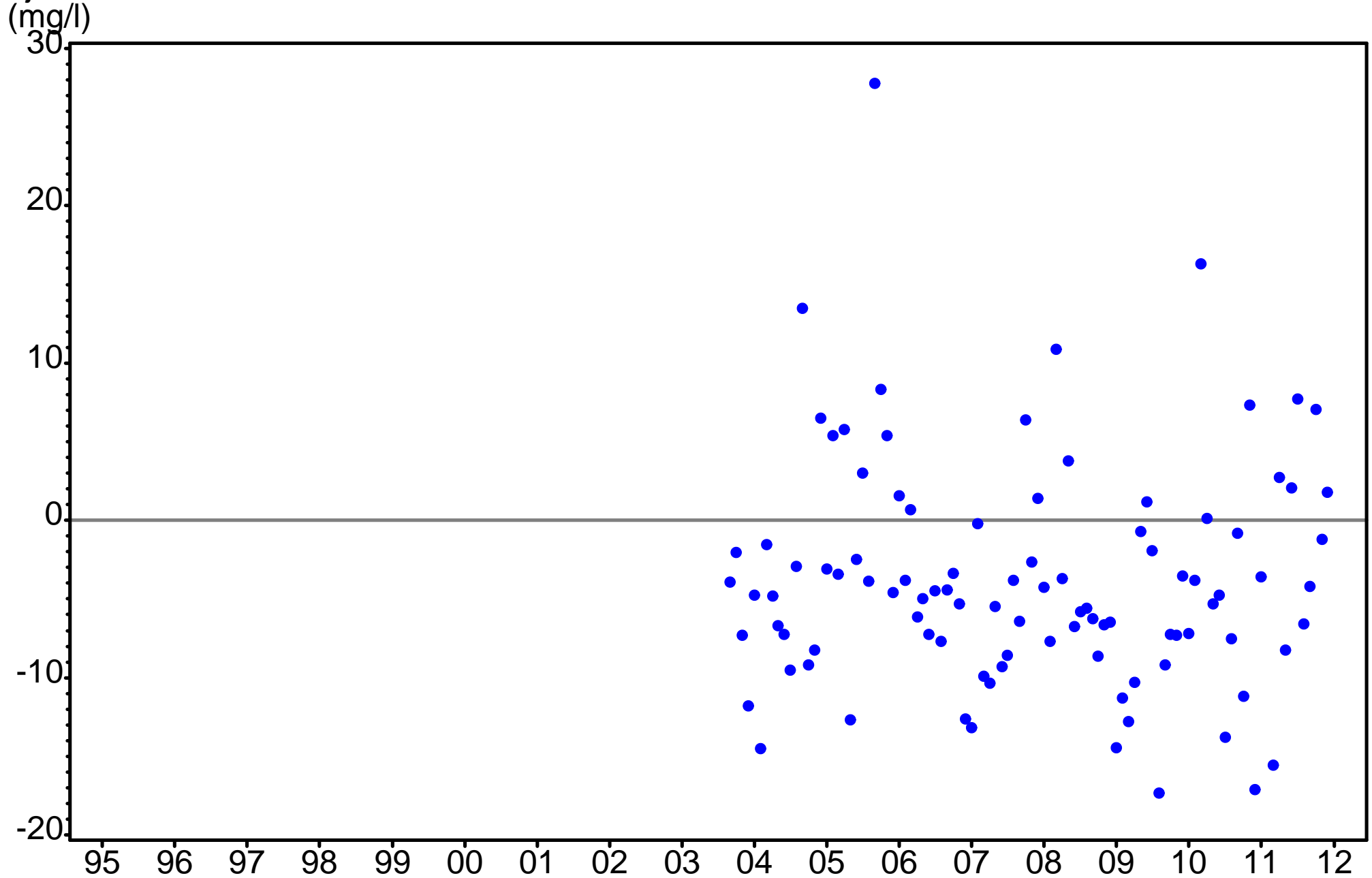
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.173	0.011	0.011	0.747

Pine Island Sound Trends Appendix - Display 1437
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.24100	.00354266	0.062179	0.935

Pine Island Sound Trends Appendix - Display 1438

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Pine Island Sound



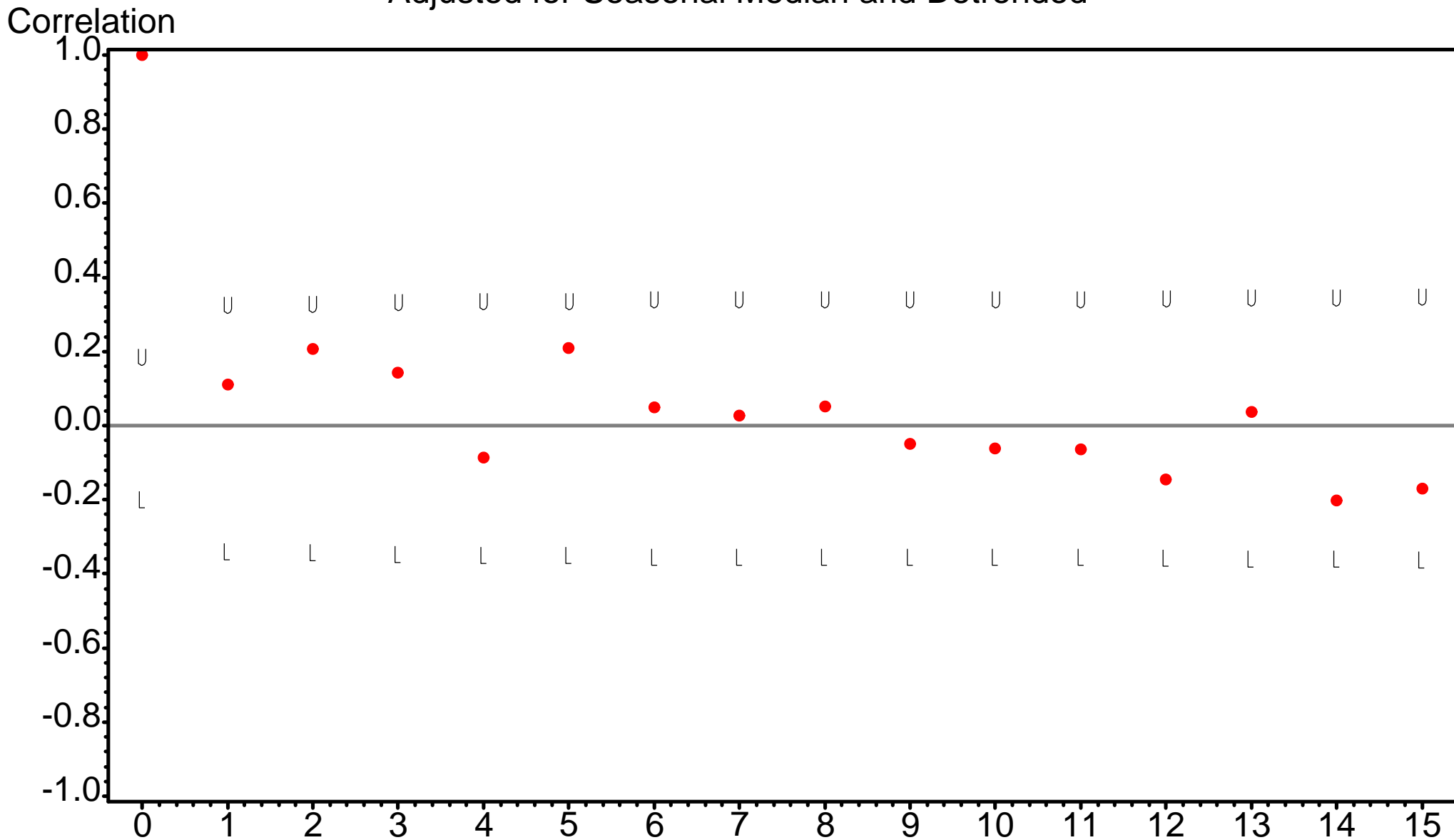
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1439
Autocorrelation Statistics for Surface Total Suspended Solids in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.111	0.167	0.333	-0.333
2	0.208	0.167	0.335	-0.335
3	0.142	0.170	0.339	-0.339
4	-0.085	0.171	0.342	-0.342
5	0.210	0.171	0.342	-0.342
6	0.050	0.174	0.347	-0.347
7	0.028	0.174	0.347	-0.347
8	0.051	0.174	0.347	-0.347
9	-0.050	0.174	0.348	-0.348
10	-0.061	0.174	0.348	-0.348
11	-0.063	0.174	0.348	-0.348
12	-0.144	0.174	0.349	-0.349
13	0.037	0.176	0.351	-0.351
14	-0.201	0.176	0.351	-0.351
15	-0.171	0.178	0.355	-0.355

Pine Island Sound Trends Appendix - Display 1440

Correlogram for Surface Total Suspended Solids in Pine Island Sound Adjusted for Seasonal Median and Detrended

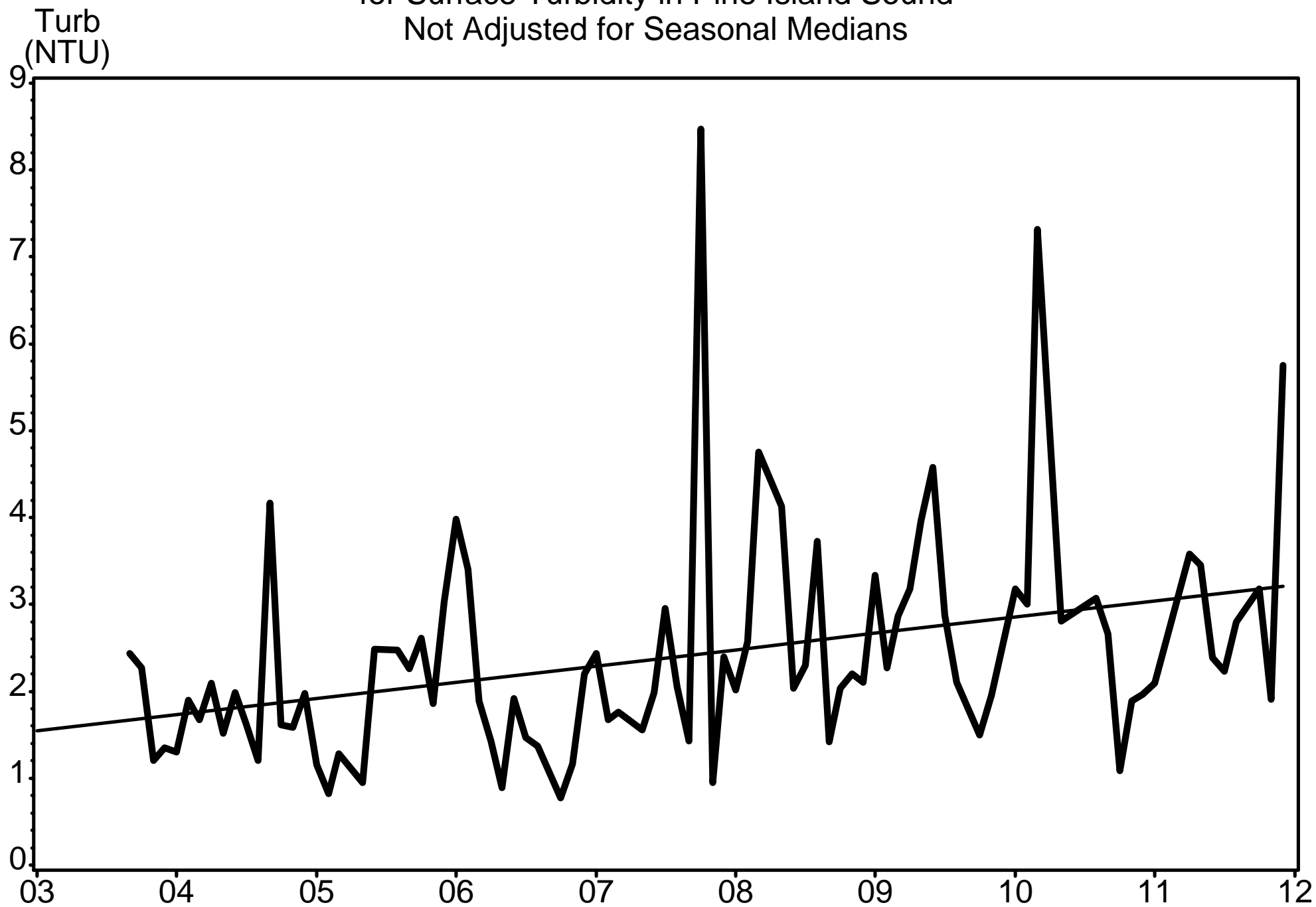


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1441

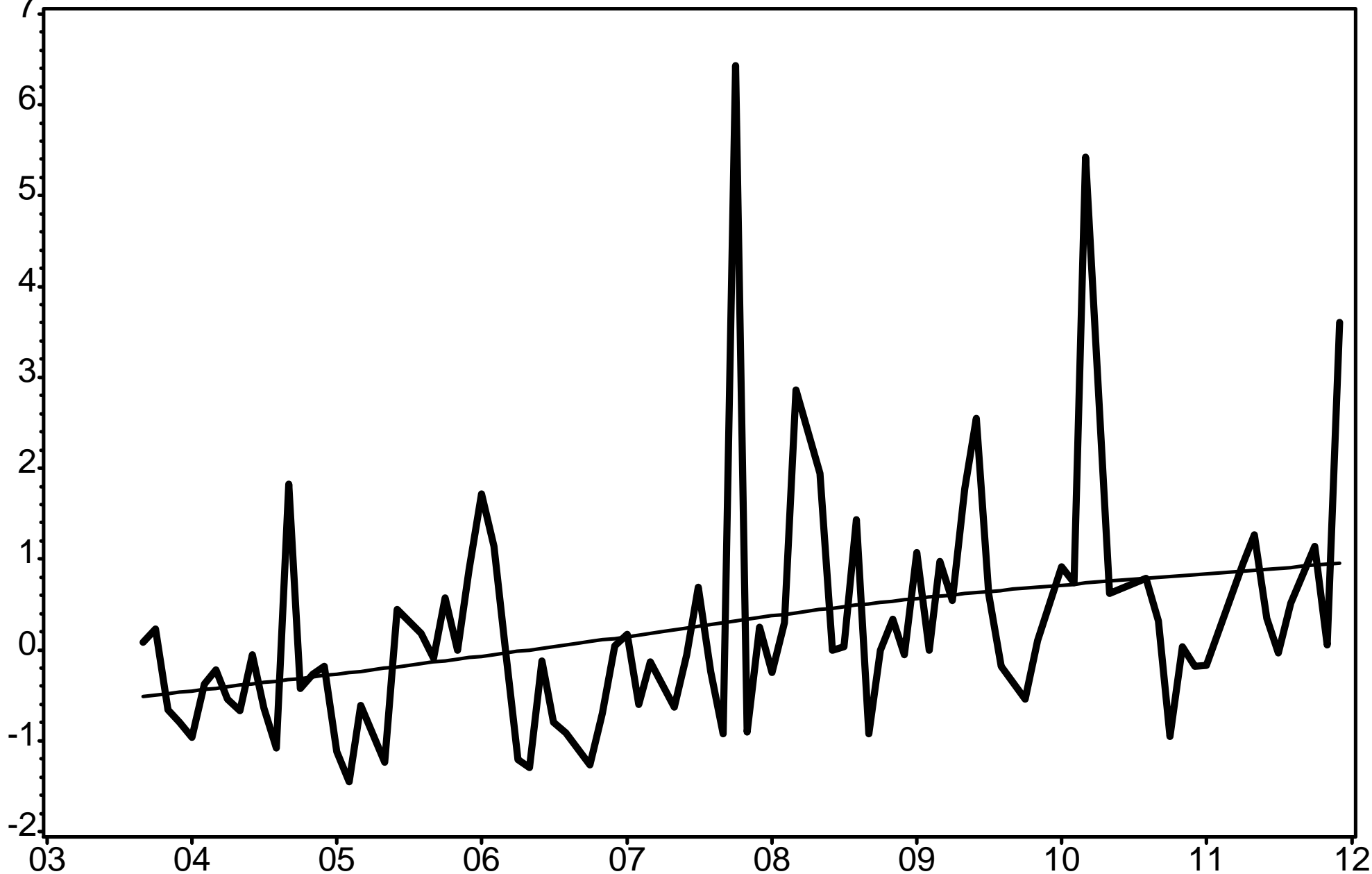
Monthly Data Time Series
for Surface Turbidity in Pine Island Sound
Not Adjusted for Seasonal Medians



Pine Island Sound Trends Appendix - Display 1442

Monthly Data Time Series
for Surface Turbidity in Pine Island Sound
Adjusted for Seasonal Medians

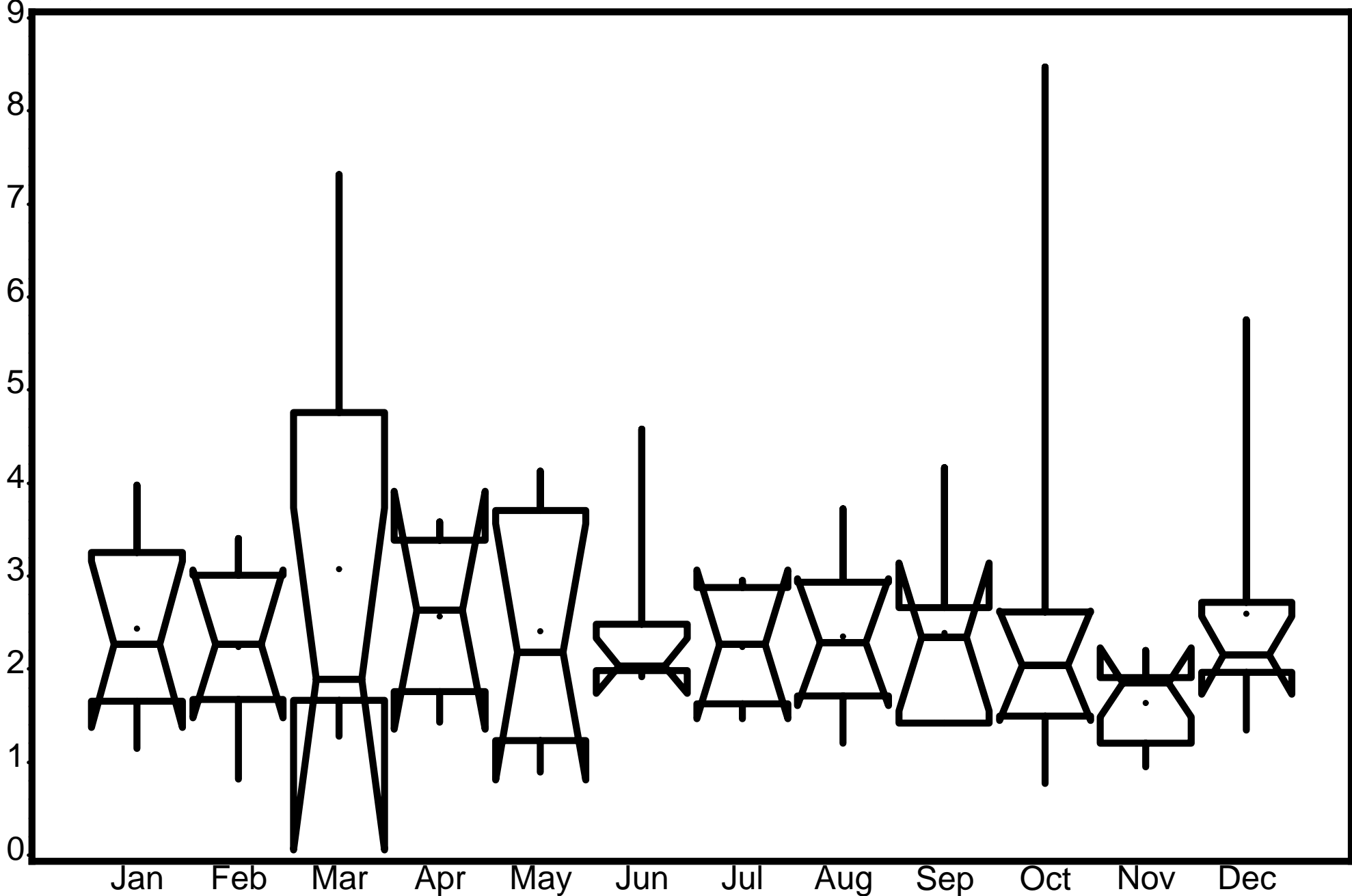
Adjusted
Turb
(NTU)



Pine Island Sound Trends Appendix - Display 1443

Seasonal Univariate Statistics for Surface Turbidity in Pine Island Sound

Turb
(NTU)

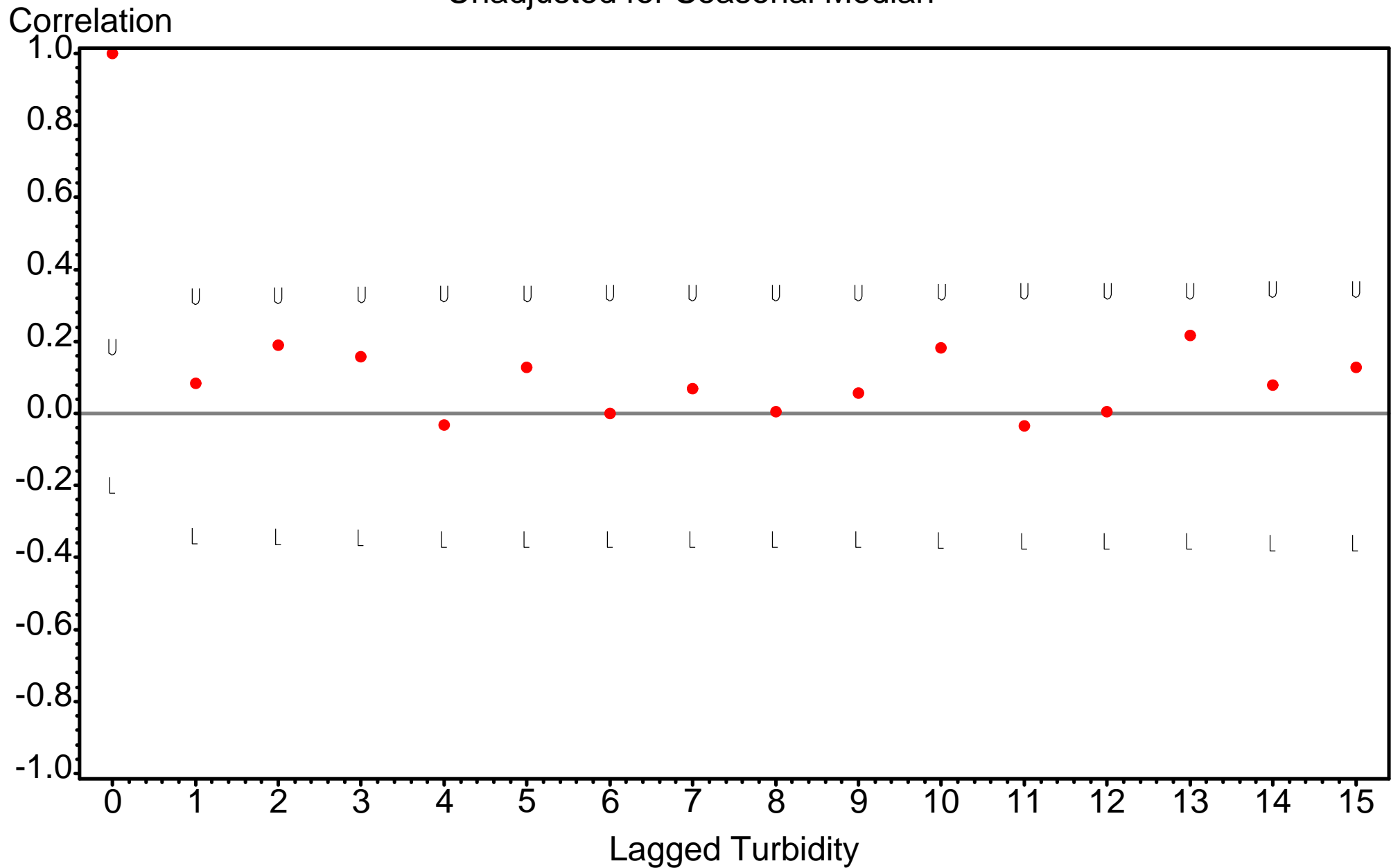


Pine Island Sound Trends Appendix - Display 1444
Autocorrelation Statistics for Surface Turbidity in Pine Island Sound

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.083	0.167	0.333	-0.333
2	0.190	0.167	0.334	-0.334
3	0.158	0.169	0.338	-0.338
4	-0.032	0.170	0.341	-0.341
5	0.127	0.170	0.341	-0.341
6	0.000	0.171	0.343	-0.343
7	0.069	0.171	0.343	-0.343
8	0.006	0.172	0.343	-0.343
9	0.056	0.172	0.343	-0.343
10	0.182	0.172	0.344	-0.344
11	-0.035	0.174	0.347	-0.347
12	0.005	0.174	0.347	-0.347
13	0.216	0.174	0.347	-0.347
14	0.079	0.176	0.352	-0.352
15	0.129	0.176	0.353	-0.353

Pine Island Sound Trends Appendix - Display 1445

Correlogram for Surface Turbidity in Pine Island Sound
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Pine Island Sound Trends Appendix - Display 1446
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Pine Island Sound
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.285	0	0	0.156

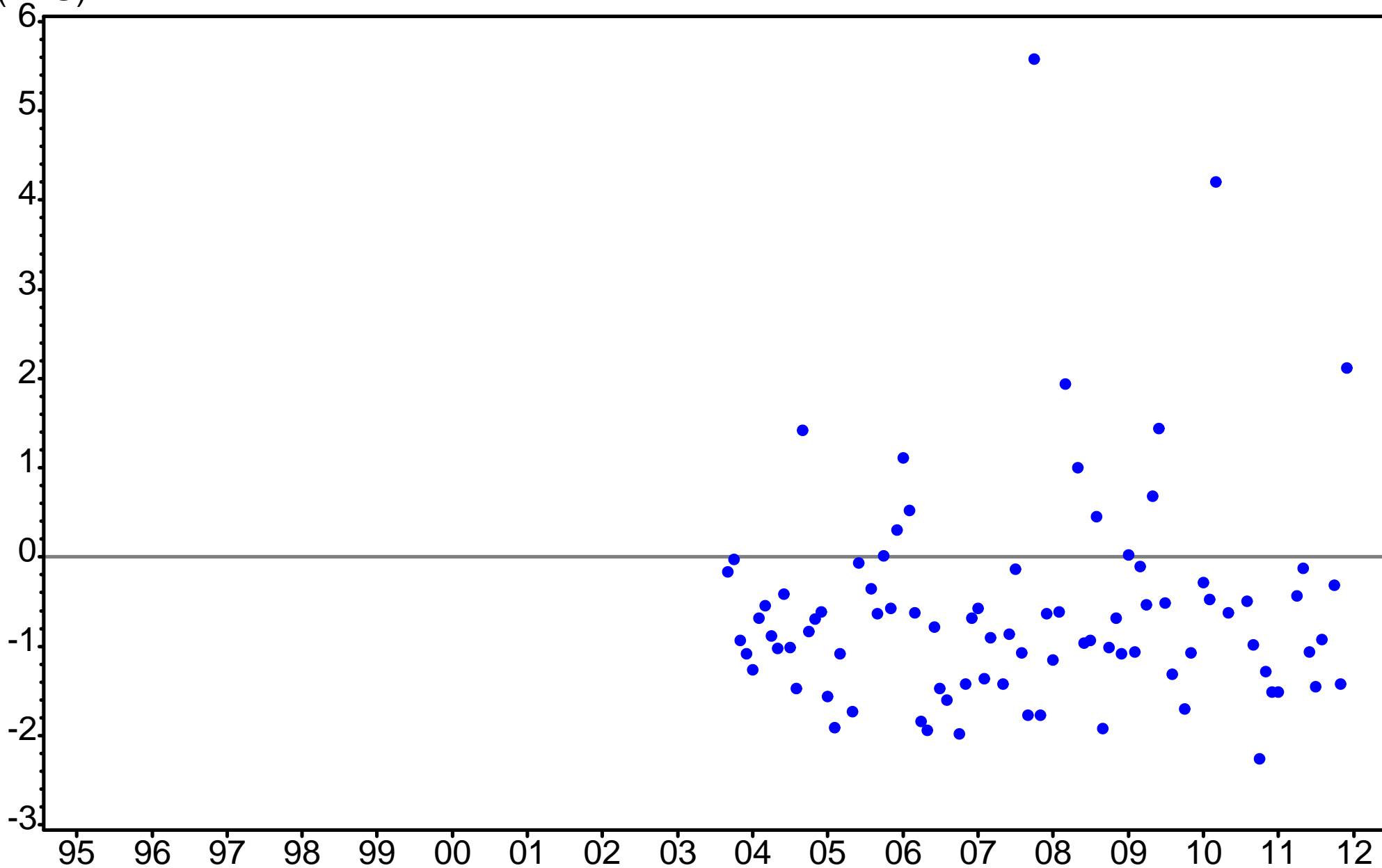
Pine Island Sound Trends Appendix - Display 1447
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Pine Island Sound
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.28622	.00161457	0.029838	0.1496

Pine Island Sound Trends Appendix - Display 1448

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Pine Island Sound

Adjusted
(NTU)



Zero Reference Line Shown

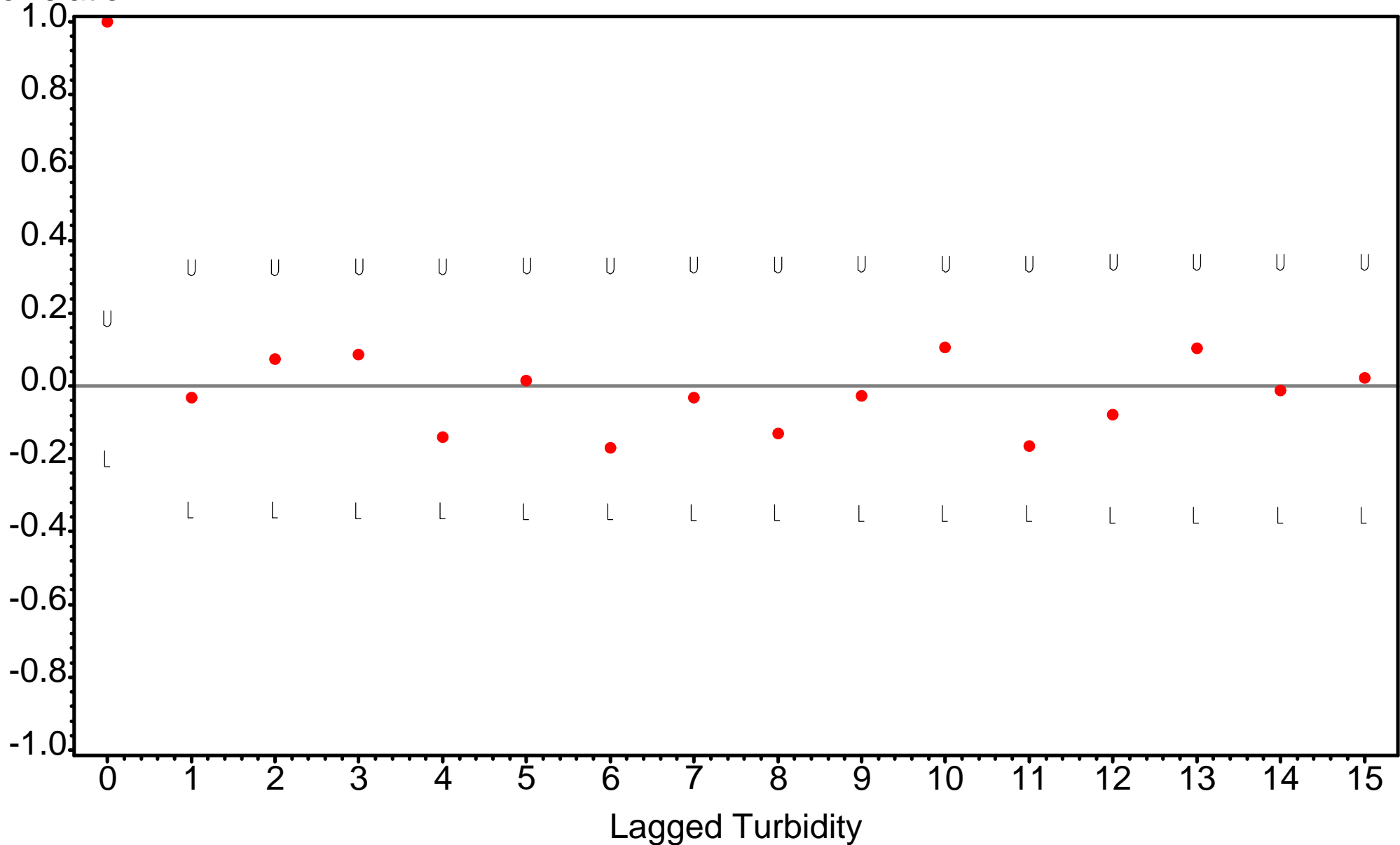
Pine Island Sound Trends Appendix - Display 1449
Autocorrelation Statistics for Surface Turbidity in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.031	0.167	0.333	-0.333
2	0.073	0.167	0.333	-0.333
3	0.086	0.167	0.334	-0.334
4	-0.141	0.167	0.335	-0.335
5	0.016	0.169	0.337	-0.337
6	-0.169	0.169	0.337	-0.337
7	-0.033	0.170	0.340	-0.340
8	-0.130	0.170	0.340	-0.340
9	-0.028	0.171	0.342	-0.342
10	0.106	0.171	0.342	-0.342
11	-0.166	0.172	0.343	-0.343
12	-0.078	0.173	0.346	-0.346
13	0.104	0.174	0.347	-0.347
14	-0.012	0.174	0.348	-0.348
15	0.021	0.174	0.348	-0.348

Pine Island Sound Trends Appendix - Display 1450

Correlogram for Surface Turbidity in Pine Island Sound
Adjusted for Seasonal Median and Detrended

Correlation

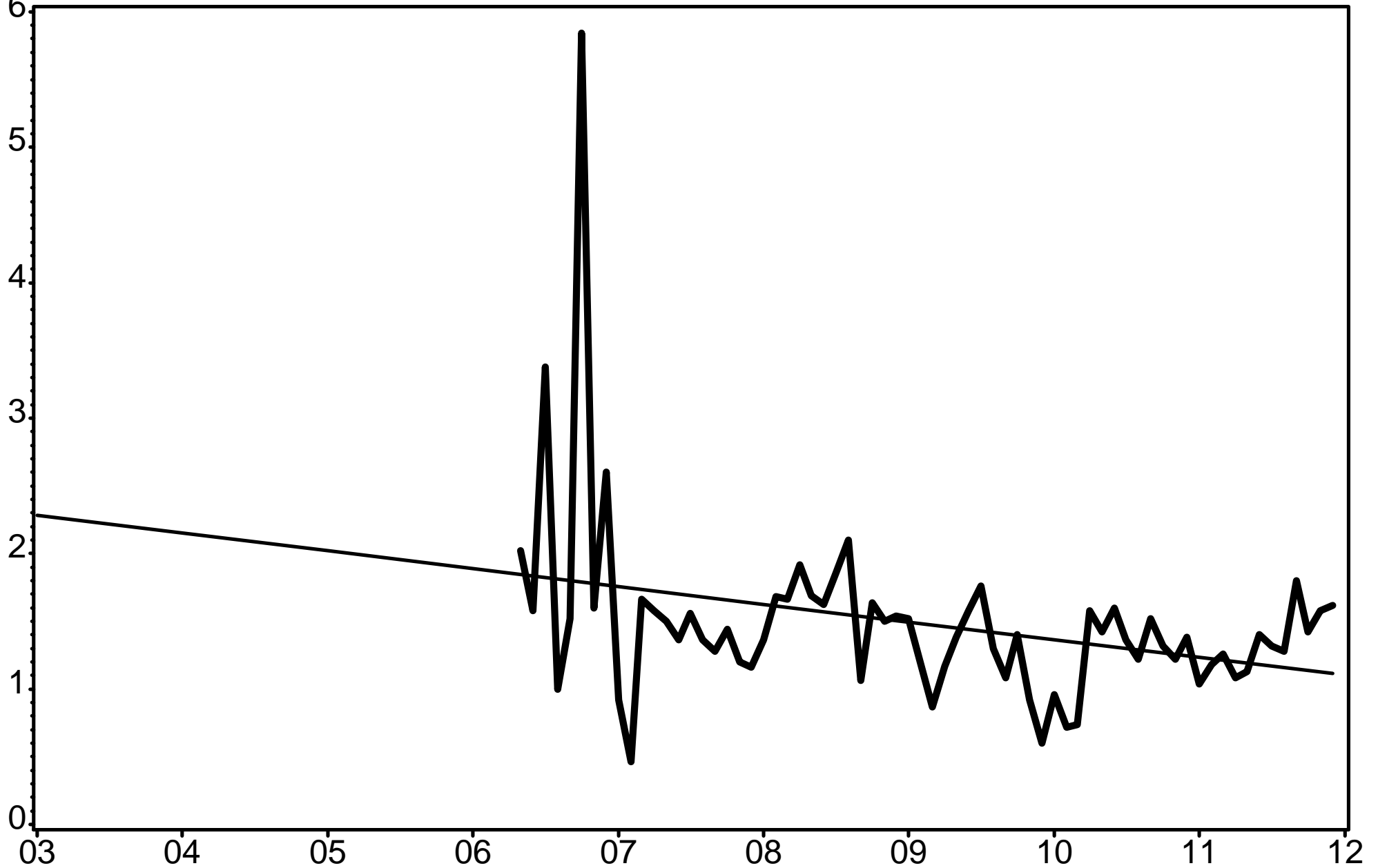


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1451

Monthly Data Time Series
for Surface BOD 5-Day in San Carlos Bay
Not Adjusted for Seasonal Medians

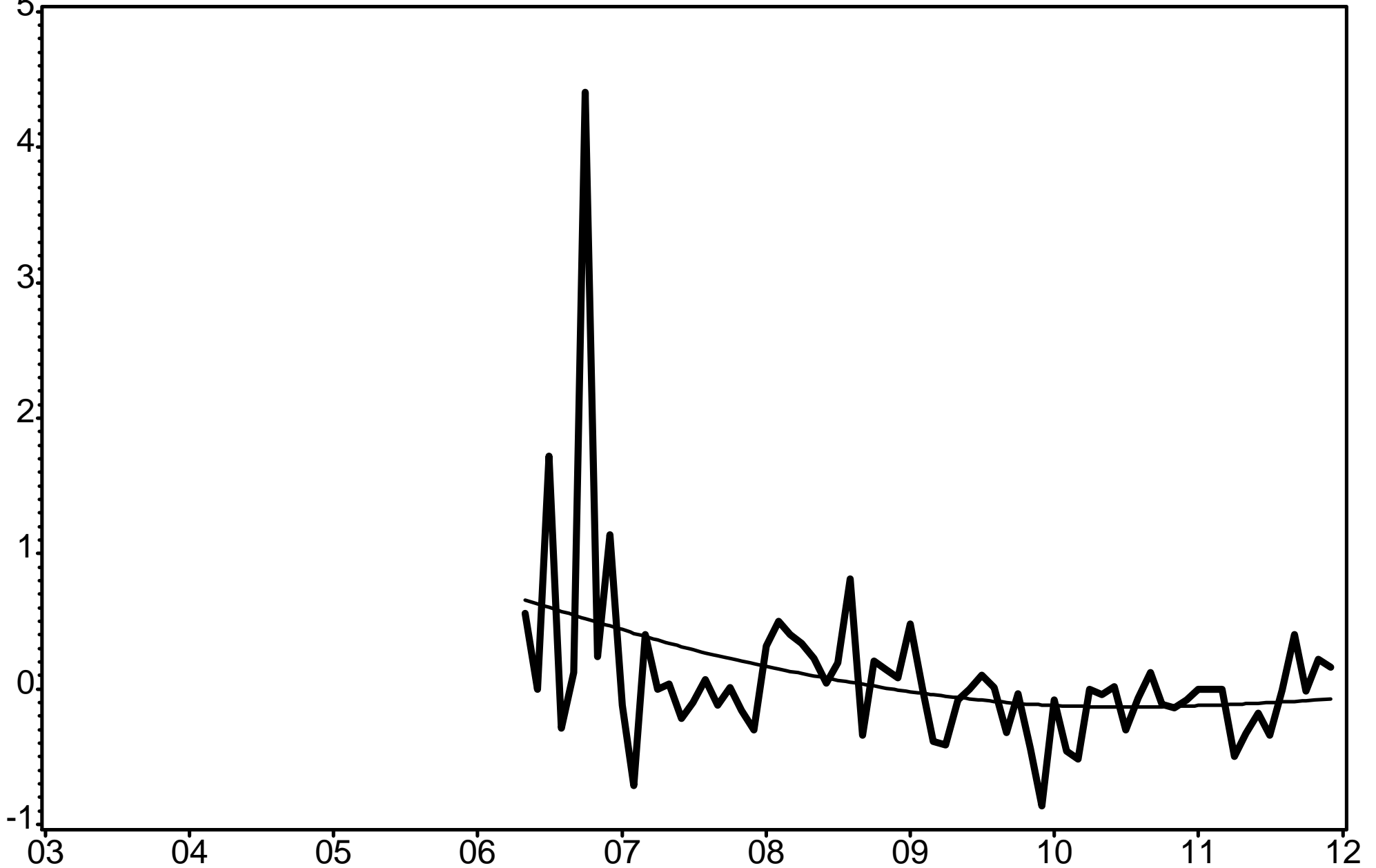
BOD_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1452

Monthly Data Time Series
for Surface BOD 5-Day in San Carlos Bay
Adjusted for Seasonal Medians

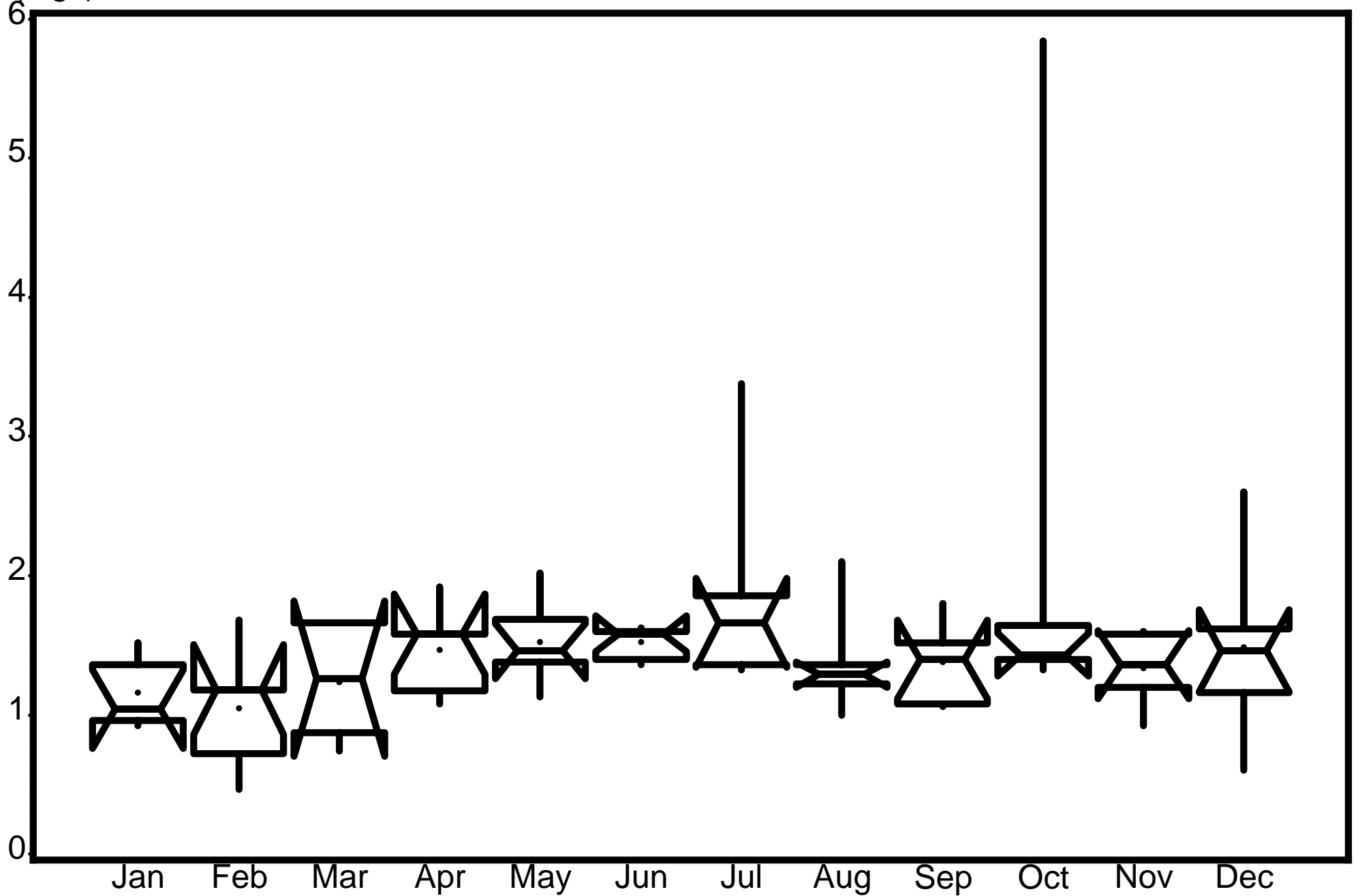
Adjusted
BOD_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1453

Seasonal Univariate Statistics
for Surface BOD 5-Day in San Carlos Bay

BOD_mgl
(mg/l)



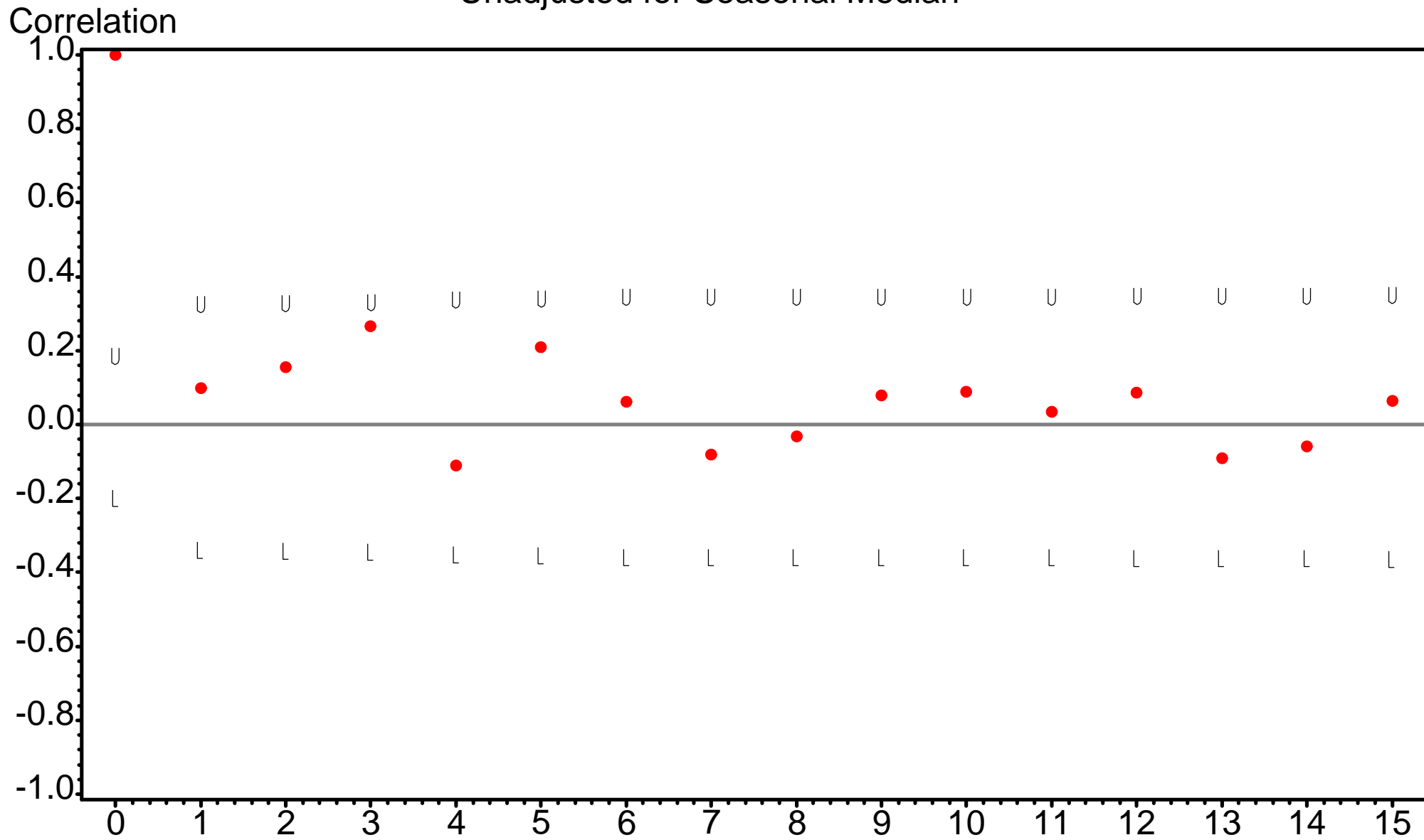
San Carlos Bay Trends Appendix - Display 1454
Autocorrelation Statistics for Surface BOD 5-Day in San Carlos Bay

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.099	0.167	0.333	-0.333
2	0.155	0.167	0.334	-0.334
3	0.266	0.169	0.337	-0.337
4	-0.110	0.172	0.345	-0.345
5	0.210	0.173	0.346	-0.346
6	0.061	0.175	0.351	-0.351
7	-0.082	0.176	0.351	-0.351
8	-0.031	0.176	0.352	-0.352
9	0.079	0.176	0.352	-0.352
10	0.089	0.176	0.353	-0.353
11	0.035	0.177	0.353	-0.353
12	0.087	0.177	0.354	-0.354
13	-0.090	0.177	0.354	-0.354
14	-0.059	0.178	0.355	-0.355
15	0.065	0.178	0.356	-0.356

San Carlos Bay Trends Appendix - Display 1455

Correlogram for Surface BOD 5-Day in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1456
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.189	0.023	0.023	-0.063

San Carlos Bay Trends Appendix - Display 1457
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23125	0.033998	0.20749	-0.06

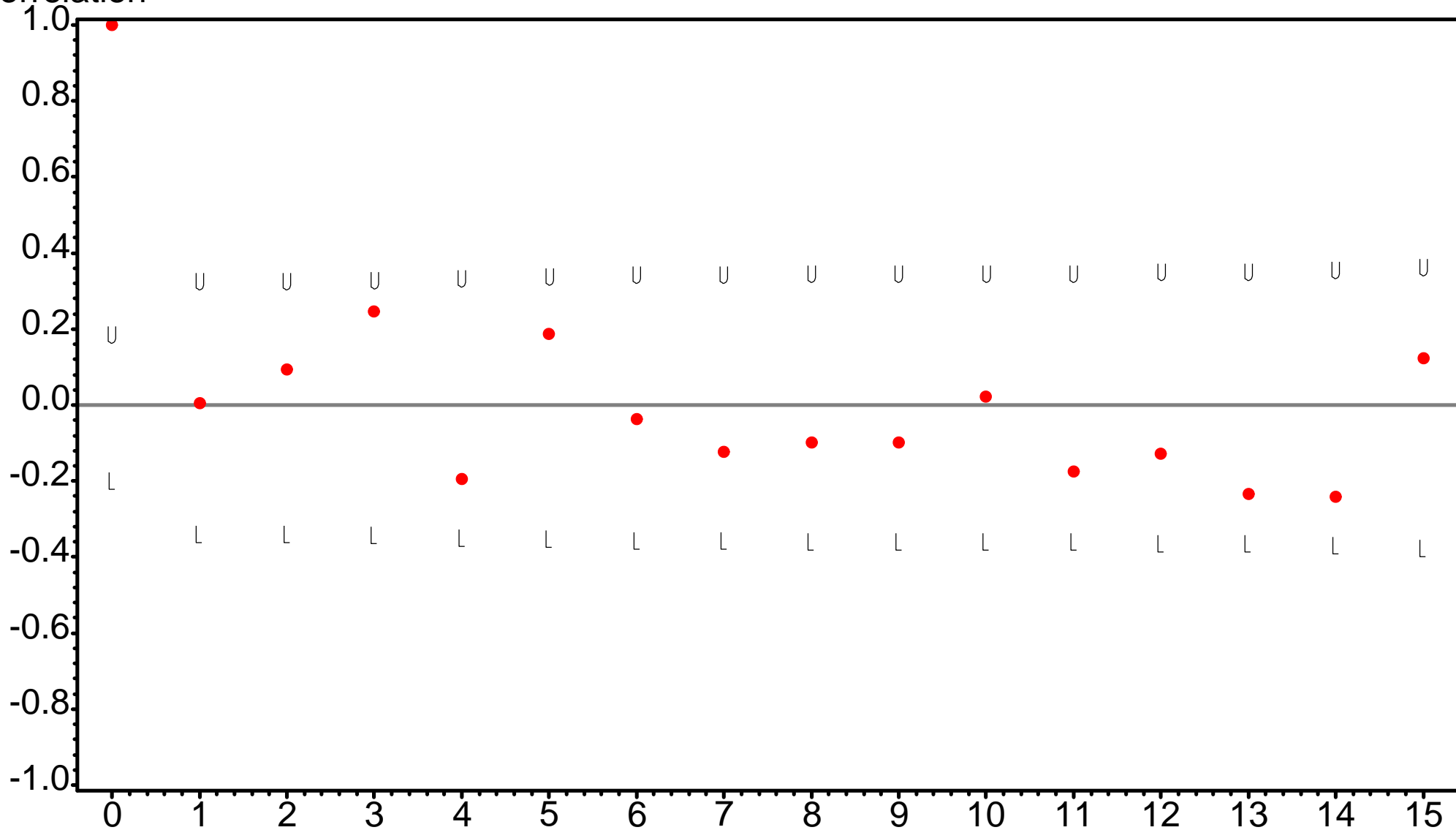
San Carlos Bay Trends Appendix - Display 1459
Autocorrelation Statistics for Surface BOD 5-Day in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.006	0.167	0.333	-0.333
2	0.093	0.167	0.333	-0.333
3	0.247	0.167	0.334	-0.334
4	-0.195	0.171	0.341	-0.341
5	0.188	0.173	0.345	-0.345
6	-0.038	0.174	0.349	-0.349
7	-0.123	0.175	0.349	-0.349
8	-0.099	0.175	0.351	-0.351
9	-0.098	0.176	0.352	-0.352
10	0.023	0.176	0.353	-0.353
11	-0.175	0.176	0.353	-0.353
12	-0.128	0.178	0.356	-0.356
13	-0.235	0.179	0.358	-0.358
14	-0.242	0.182	0.363	-0.363
15	0.123	0.185	0.369	-0.369

San Carlos Bay Trends Appendix - Display 1460

Correlogram for Surface BOD 5-Day in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Correlation



Lagged BOD 5-Day

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

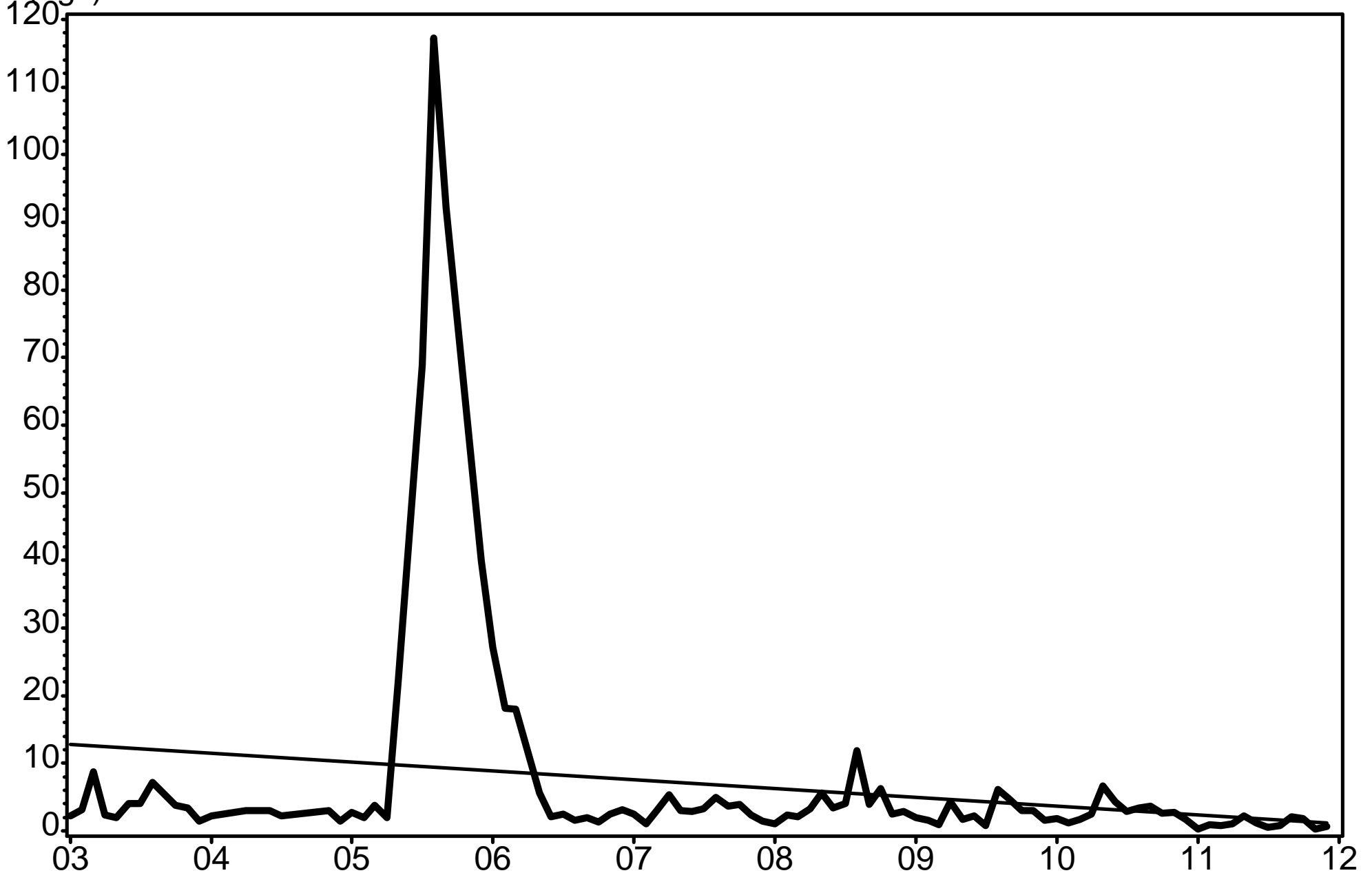
San Carlos Bay Trends Appendix - Display 1461

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in San Carlos Bay

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



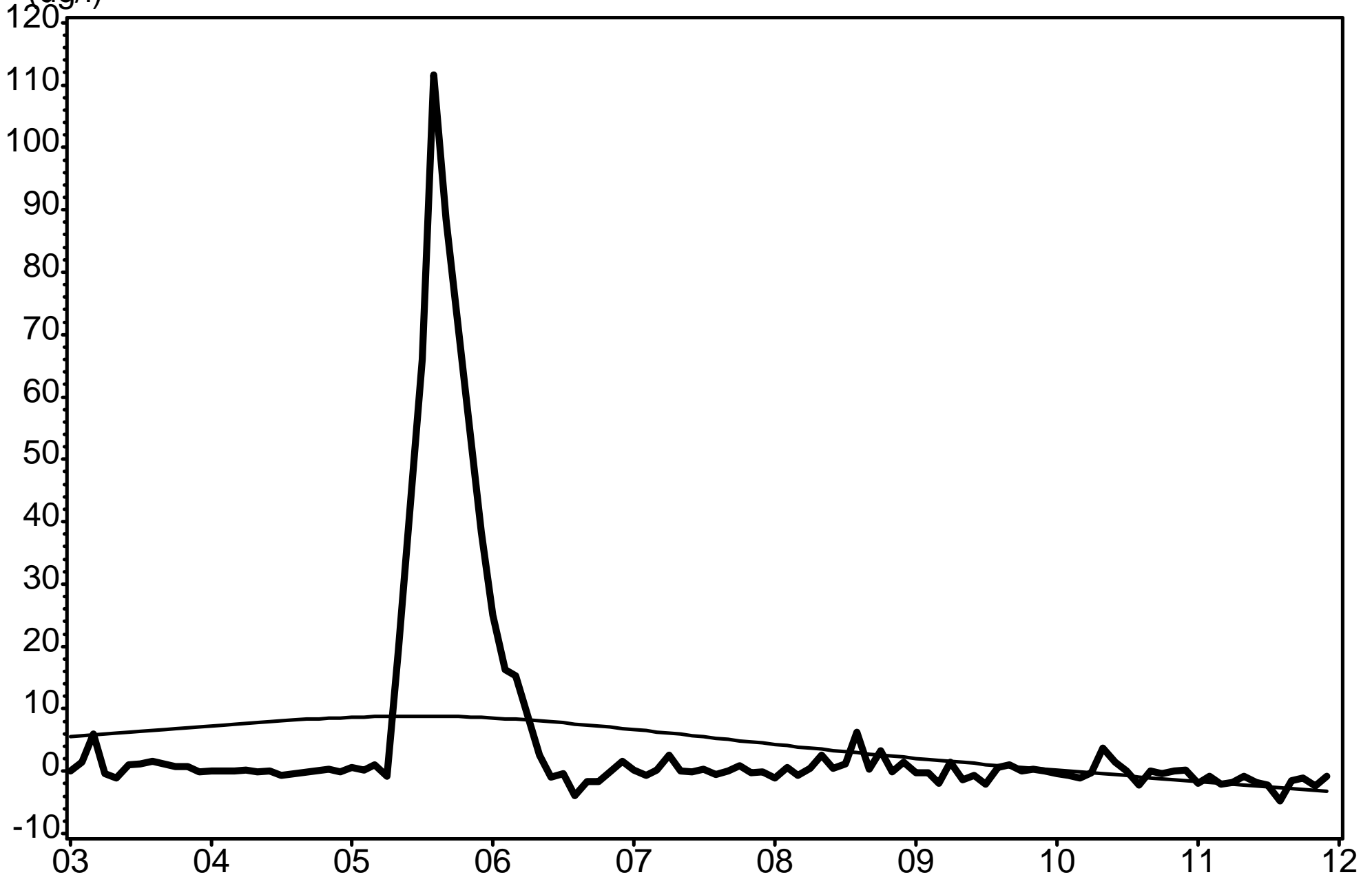
San Carlos Bay Trends Appendix - Display 1462

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

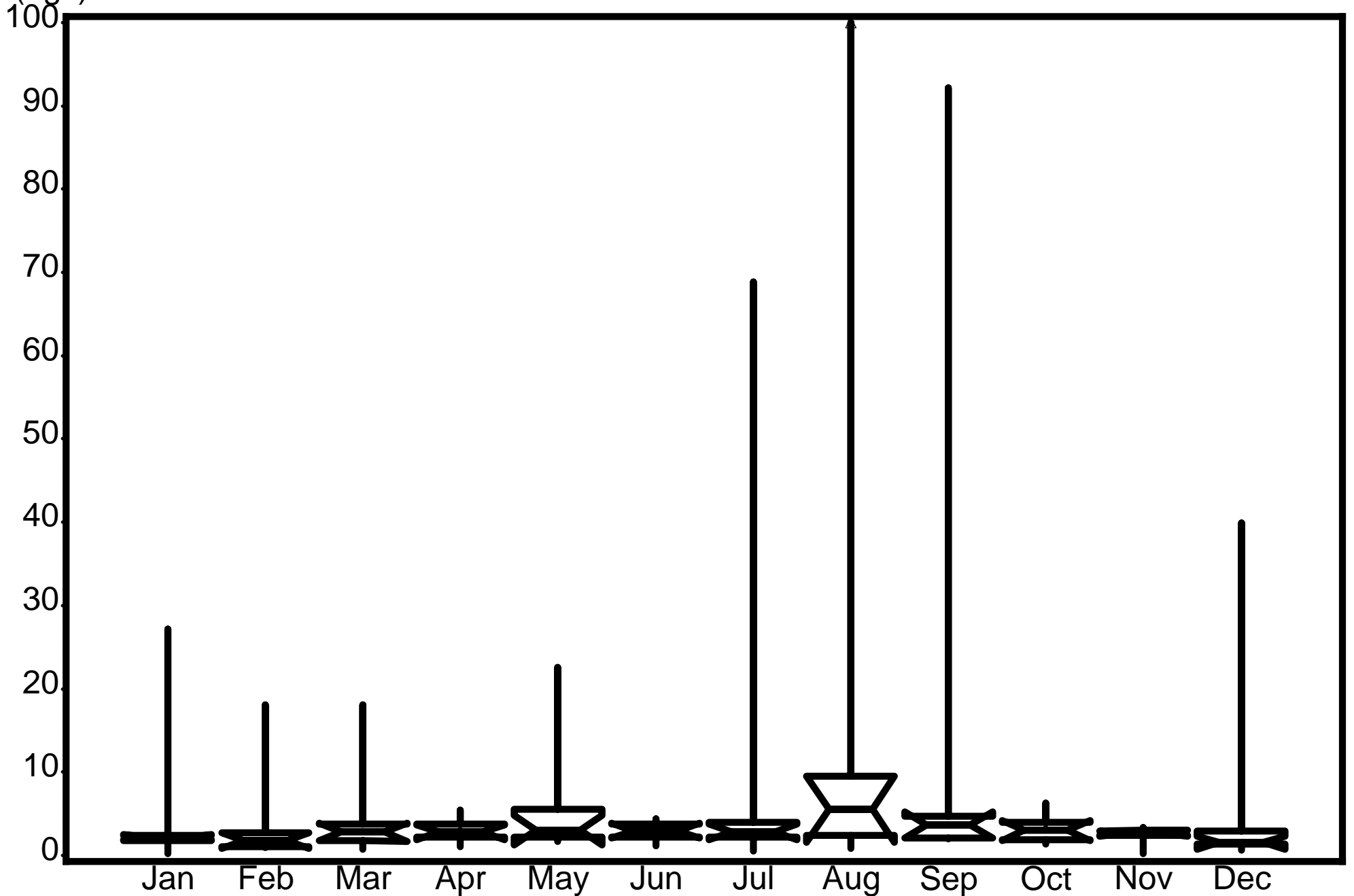


San Carlos Bay Trends Appendix - Display 1463

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in San Carlos Bay

CHLAC_ugl
(ug/l)



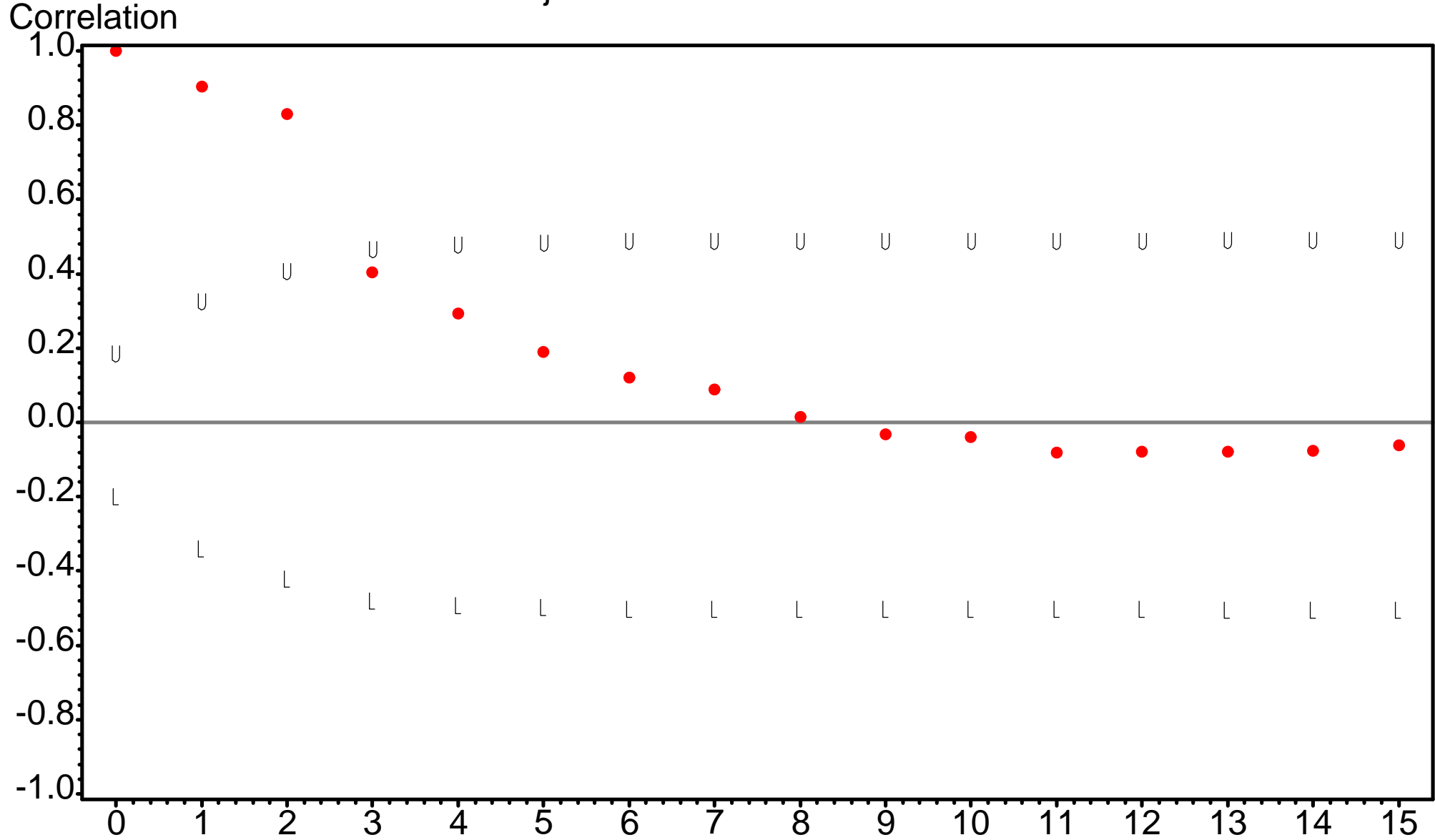
San Carlos Bay Trends Appendix - Display 1464
 Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in San Carlos Bay

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.904	0.167	0.333	-0.333
2	0.829	0.207	0.414	-0.414
3	0.404	0.236	0.472	-0.472
4	0.292	0.242	0.484	-0.484
5	0.190	0.245	0.491	-0.491
6	0.121	0.247	0.494	-0.494
7	0.088	0.247	0.495	-0.495
8	0.015	0.248	0.495	-0.495
9	-0.033	0.248	0.495	-0.495
10	-0.040	0.248	0.495	-0.495
11	-0.081	0.248	0.496	-0.496
12	-0.079	0.248	0.496	-0.496
13	-0.079	0.248	0.497	-0.497
14	-0.077	0.248	0.497	-0.497
15	-0.061	0.249	0.497	-0.497

San Carlos Bay Trends Appendix - Display 1465

Correlogram for Surface Chlorophyll-a (Corrected) in San Carlos Bay

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1466
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.261	0	0	-0.229

San Carlos Bay Trends Appendix - Display 1467
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in San Carlos Bay
Adjusted for Seasonal Medians

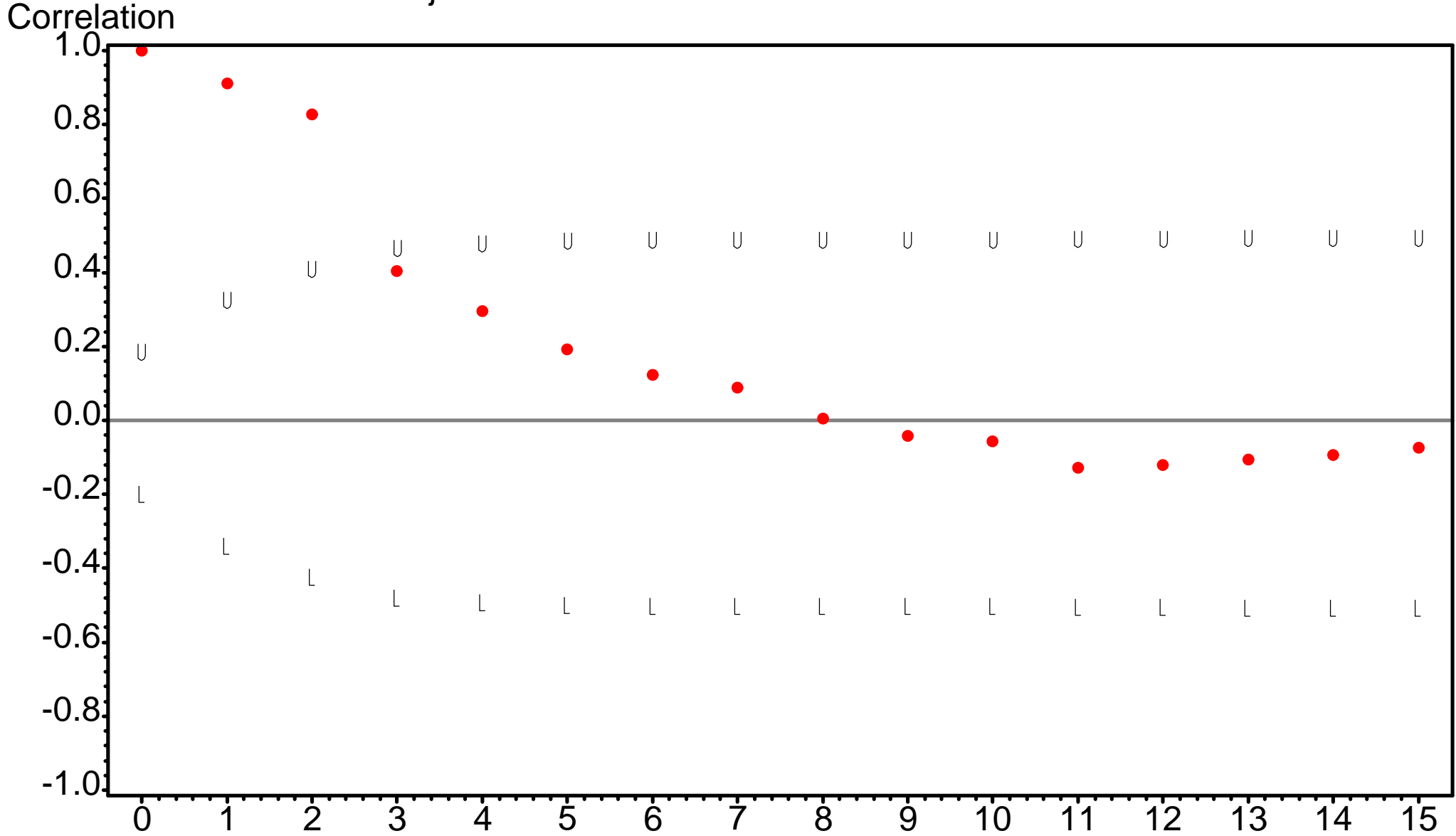
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.31492	.000126335	0.056151	-0.234

San Carlos Bay Trends Appendix - Display 1469
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.910	0.167	0.333	-0.333
2	0.827	0.208	0.415	-0.415
3	0.405	0.236	0.472	-0.472
4	0.296	0.243	0.485	-0.485
5	0.193	0.246	0.492	-0.492
6	0.123	0.247	0.495	-0.495
7	0.089	0.248	0.496	-0.496
8	0.004	0.248	0.496	-0.496
9	-0.043	0.248	0.496	-0.496
10	-0.056	0.248	0.496	-0.496
11	-0.127	0.248	0.497	-0.497
12	-0.121	0.249	0.498	-0.498
13	-0.106	0.249	0.499	-0.499
14	-0.094	0.250	0.500	-0.500
15	-0.073	0.250	0.500	-0.500

San Carlos Bay Trends Appendix - Display 1470

Correlogram for Surface Chlorophyll-a (Corrected) in San Carlos Bay Adjusted for Seasonal Median and Detrended



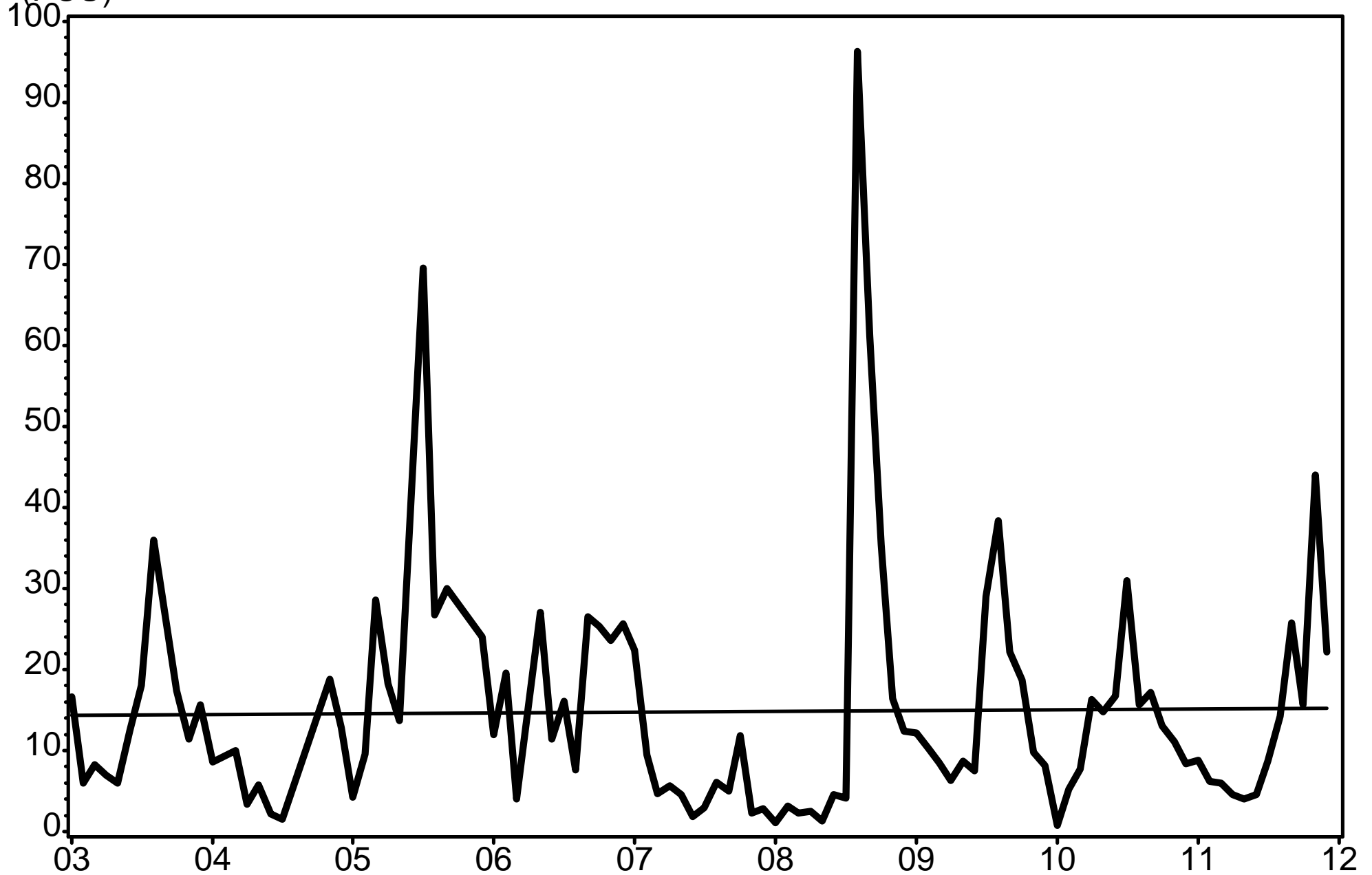
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1471

Monthly Data Time Series
for Surface Color in San Carlos Bay
Not Adjusted for Seasonal Medians

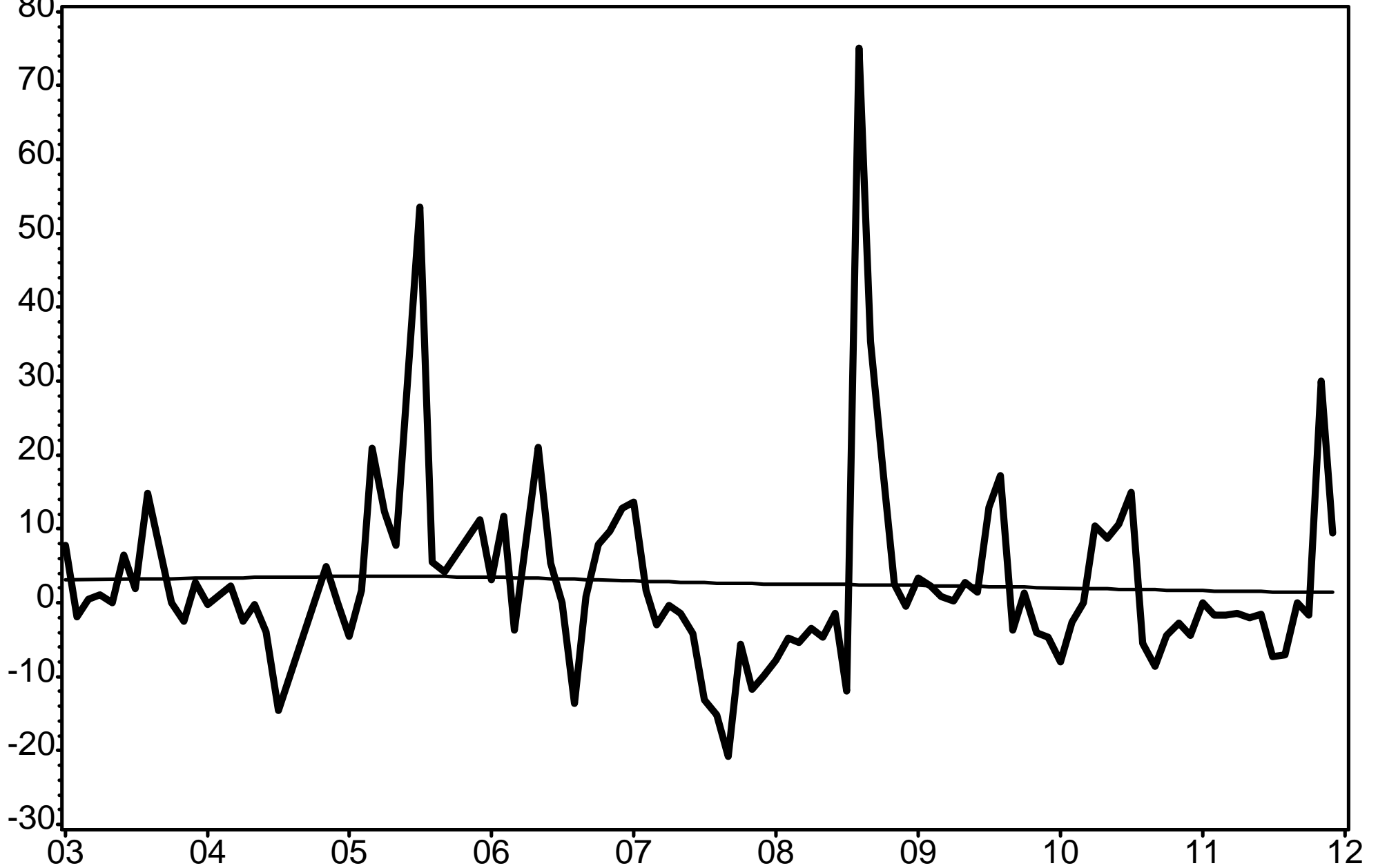
COLOR
(PCU)



San Carlos Bay Trends Appendix - Display 1472

Monthly Data Time Series
for Surface Color in San Carlos Bay
Adjusted for Seasonal Medians

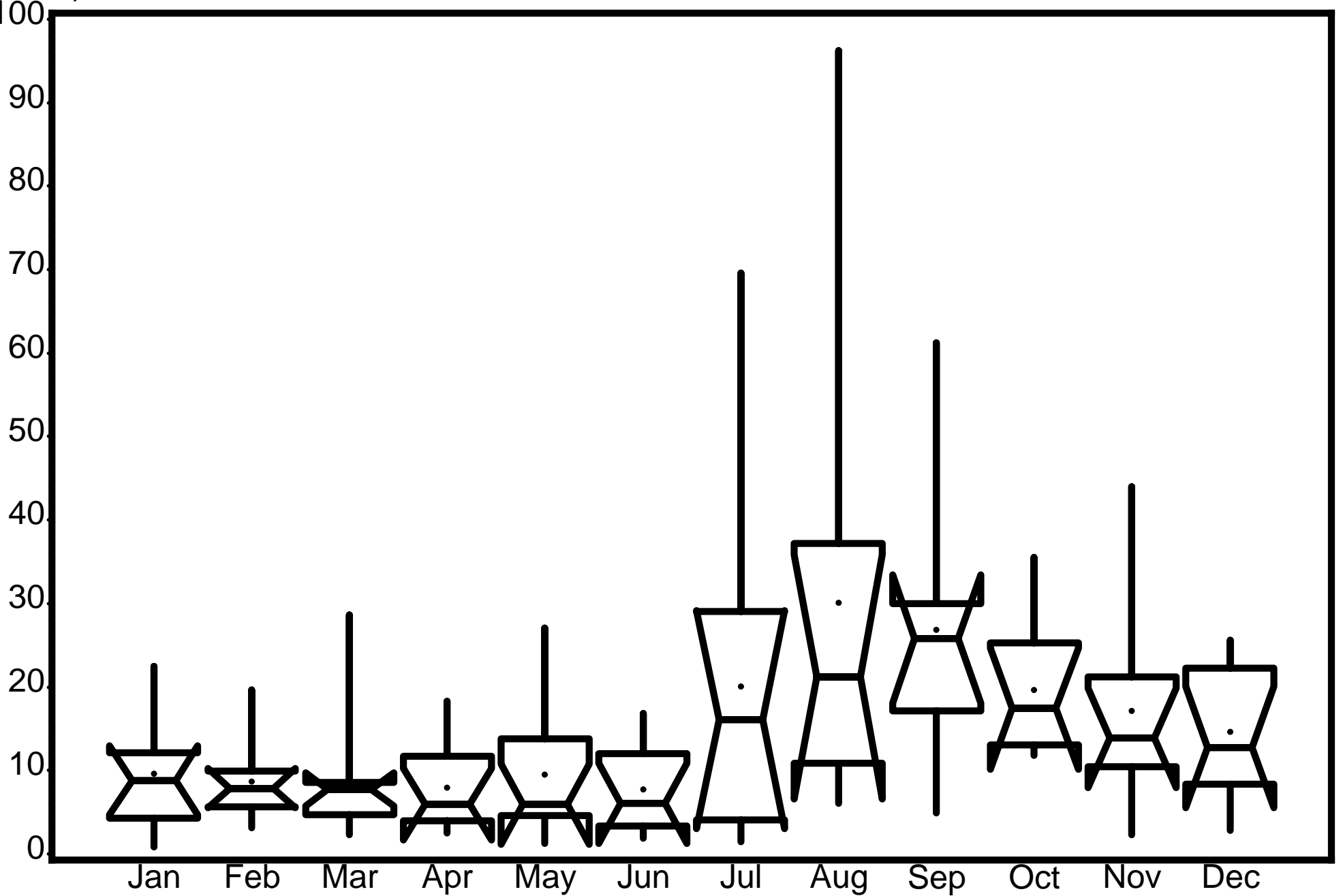
Adjusted
COLOR
(PCU)



San Carlos Bay Trends Appendix - Display 1473

Seasonal Univariate Statistics
for Surface Color in San Carlos Bay

COLOR
(PCU)



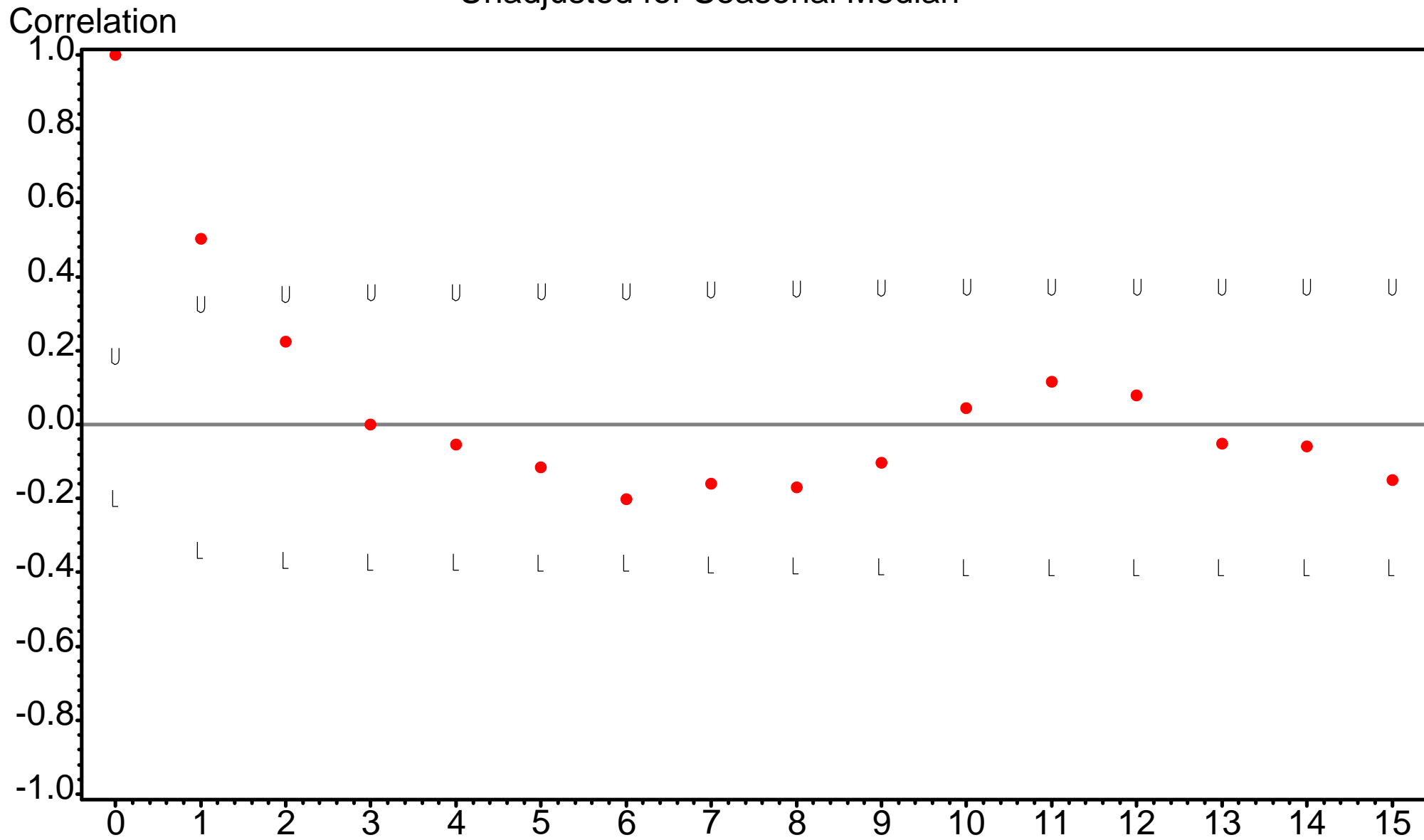
San Carlos Bay Trends Appendix - Display 1474
Autocorrelation Statistics for Surface Color in San Carlos Bay

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.502	0.167	0.333	-0.333
2	0.224	0.180	0.360	-0.360
3	0.000	0.183	0.365	-0.365
4	-0.053	0.183	0.365	-0.365
5	-0.115	0.183	0.366	-0.366
6	-0.202	0.184	0.367	-0.367
7	-0.160	0.186	0.371	-0.371
8	-0.170	0.187	0.374	-0.374
9	-0.104	0.188	0.377	-0.377
10	0.045	0.189	0.378	-0.378
11	0.115	0.189	0.378	-0.378
12	0.080	0.190	0.379	-0.379
13	-0.051	0.190	0.380	-0.380
14	-0.060	0.190	0.380	-0.380
15	-0.151	0.190	0.380	-0.380

San Carlos Bay Trends Appendix - Display 1475

Correlogram for Surface Color in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1476
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.008	0.906	0.906	-0.037

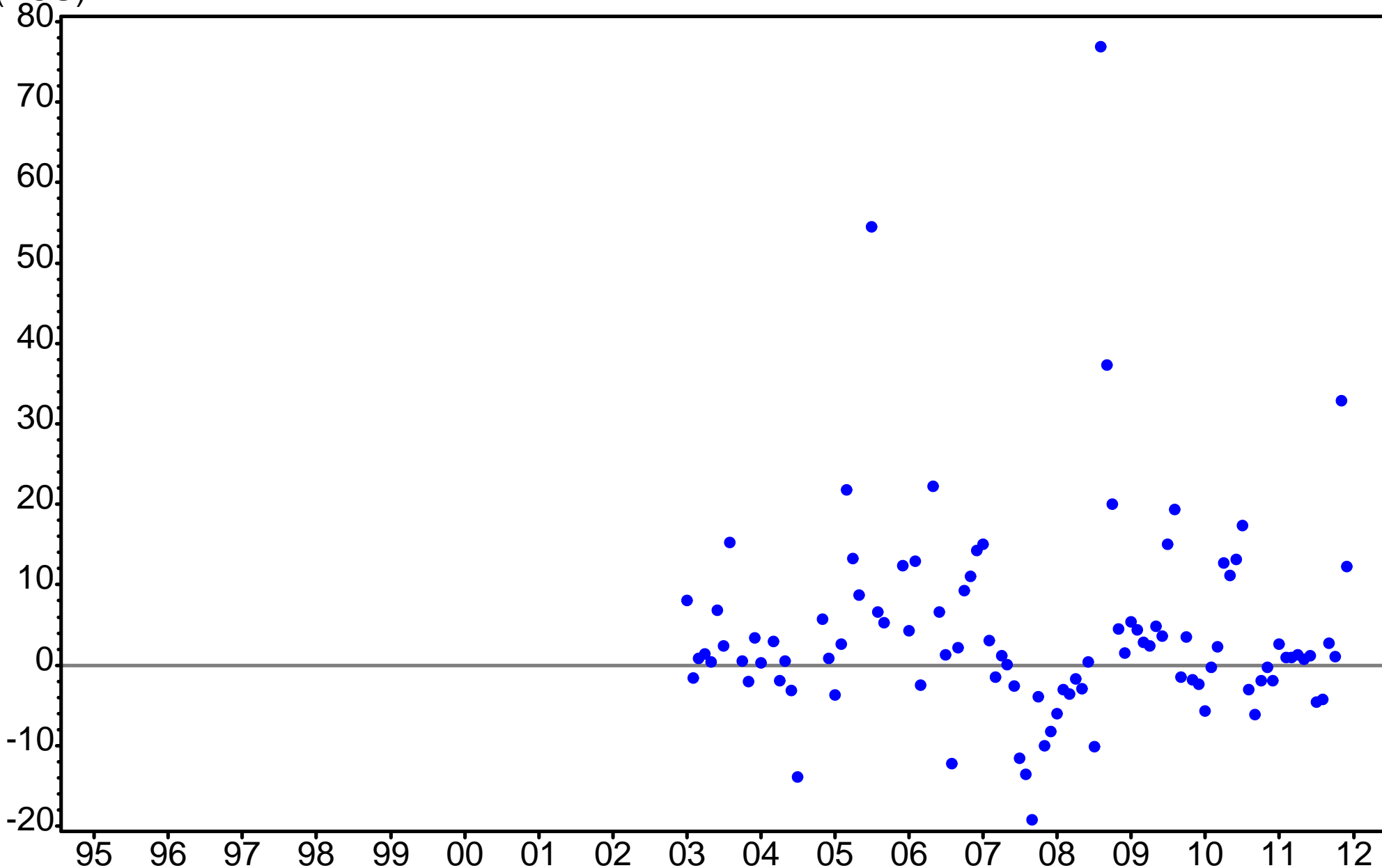
San Carlos Bay Trends Appendix - Display 1477
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.10497	0.21108	0.42852	-0.28605

San Carlos Bay Trends Appendix - Display 1478

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(PCU)



Zero Reference Line Shown

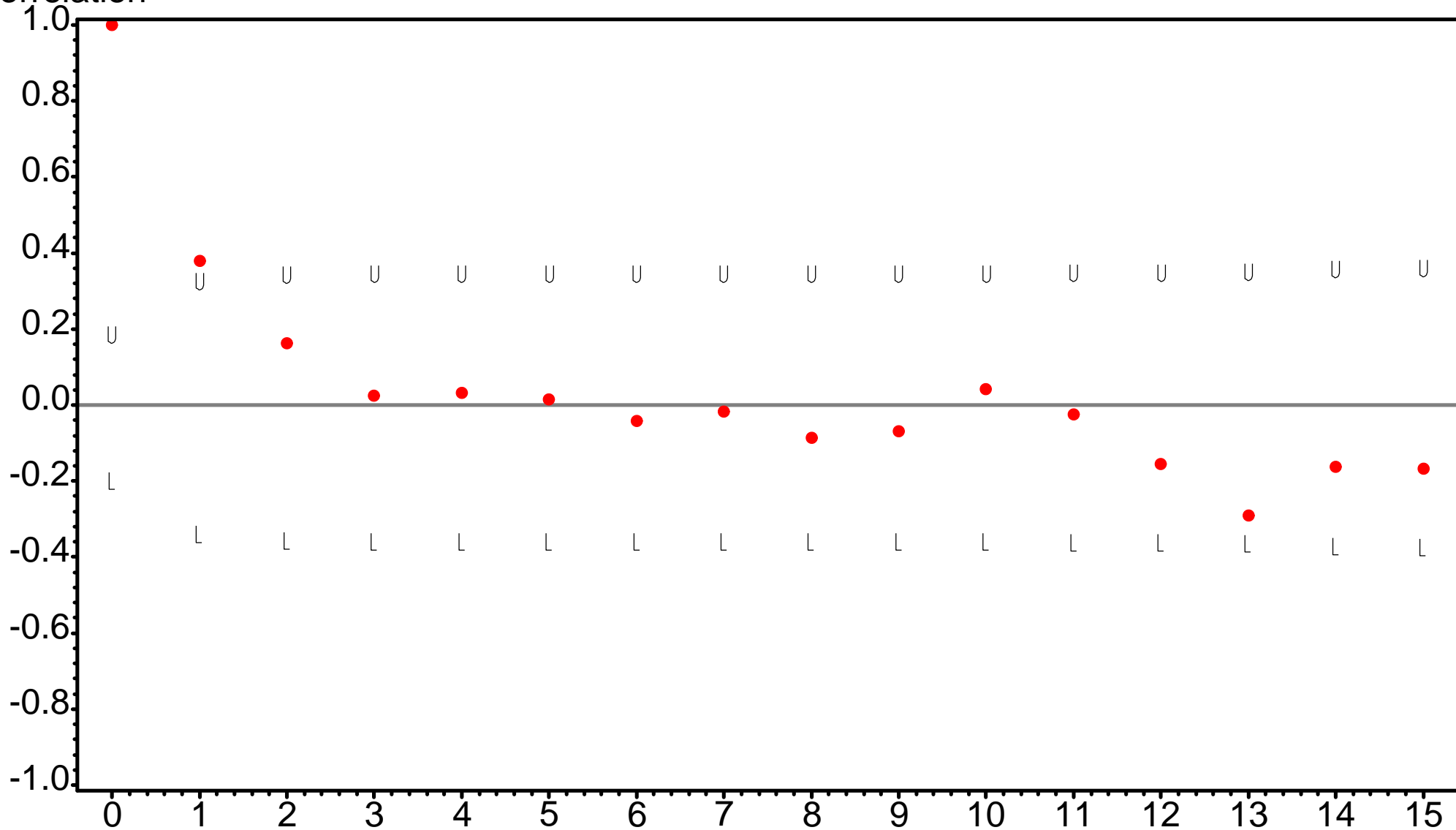
San Carlos Bay Trends Appendix - Display 1479
Autocorrelation Statistics for Surface Color in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.378	0.167	0.333	-0.333
2	0.162	0.174	0.349	-0.349
3	0.024	0.176	0.352	-0.352
4	0.032	0.176	0.352	-0.352
5	0.015	0.176	0.352	-0.352
6	-0.042	0.176	0.352	-0.352
7	-0.017	0.176	0.352	-0.352
8	-0.087	0.176	0.352	-0.352
9	-0.069	0.176	0.353	-0.353
10	0.043	0.177	0.353	-0.353
11	-0.024	0.177	0.354	-0.354
12	-0.154	0.177	0.354	-0.354
13	-0.290	0.178	0.356	-0.356
14	-0.162	0.182	0.365	-0.365
15	-0.168	0.184	0.367	-0.367

San Carlos Bay Trends Appendix - Display 1480

Correlogram for Surface Color in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Color

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

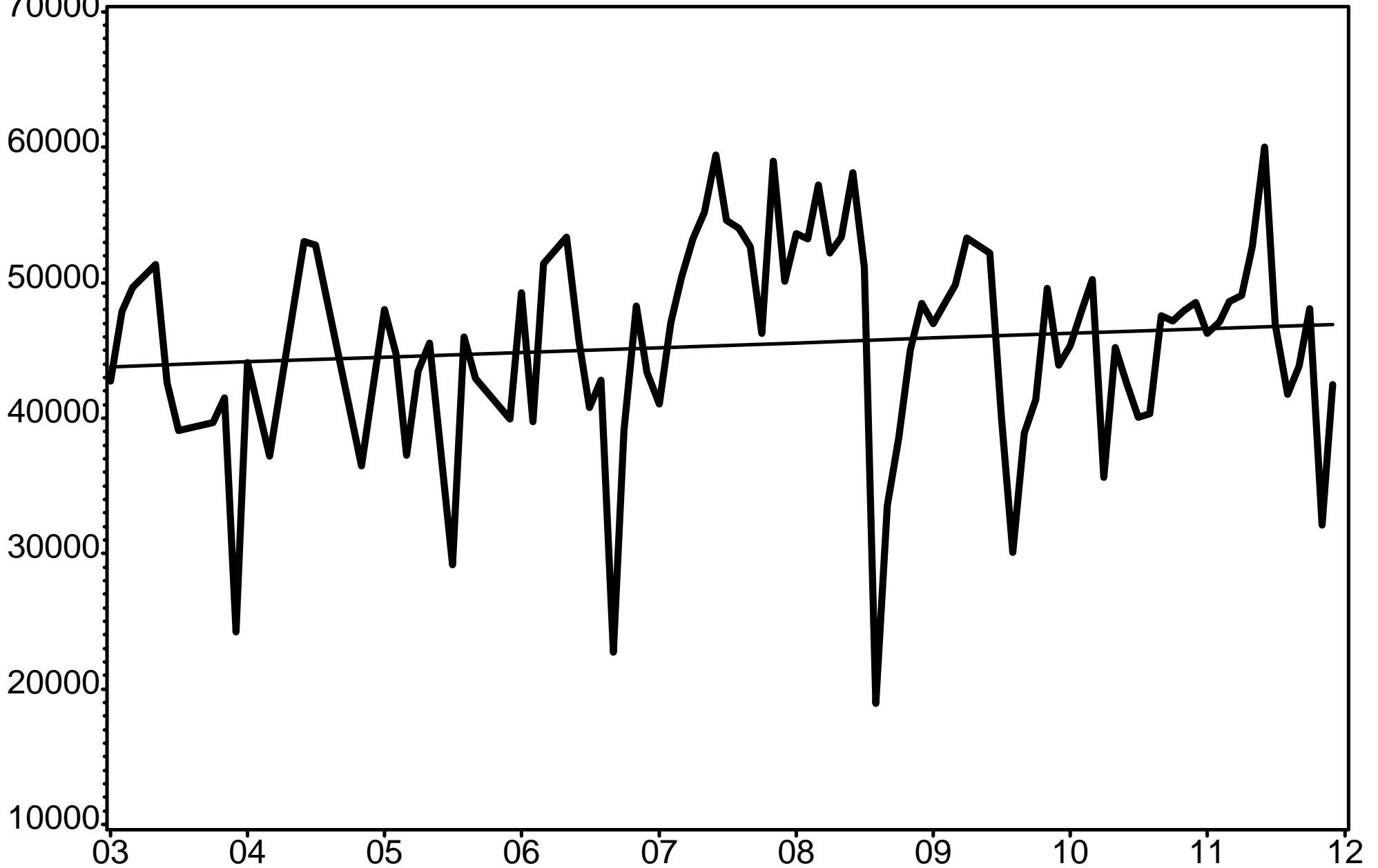
San Carlos Bay Trends Appendix - Display 1481

Monthly Data Time Series

for Surface Specific Conductance in San Carlos Bay

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



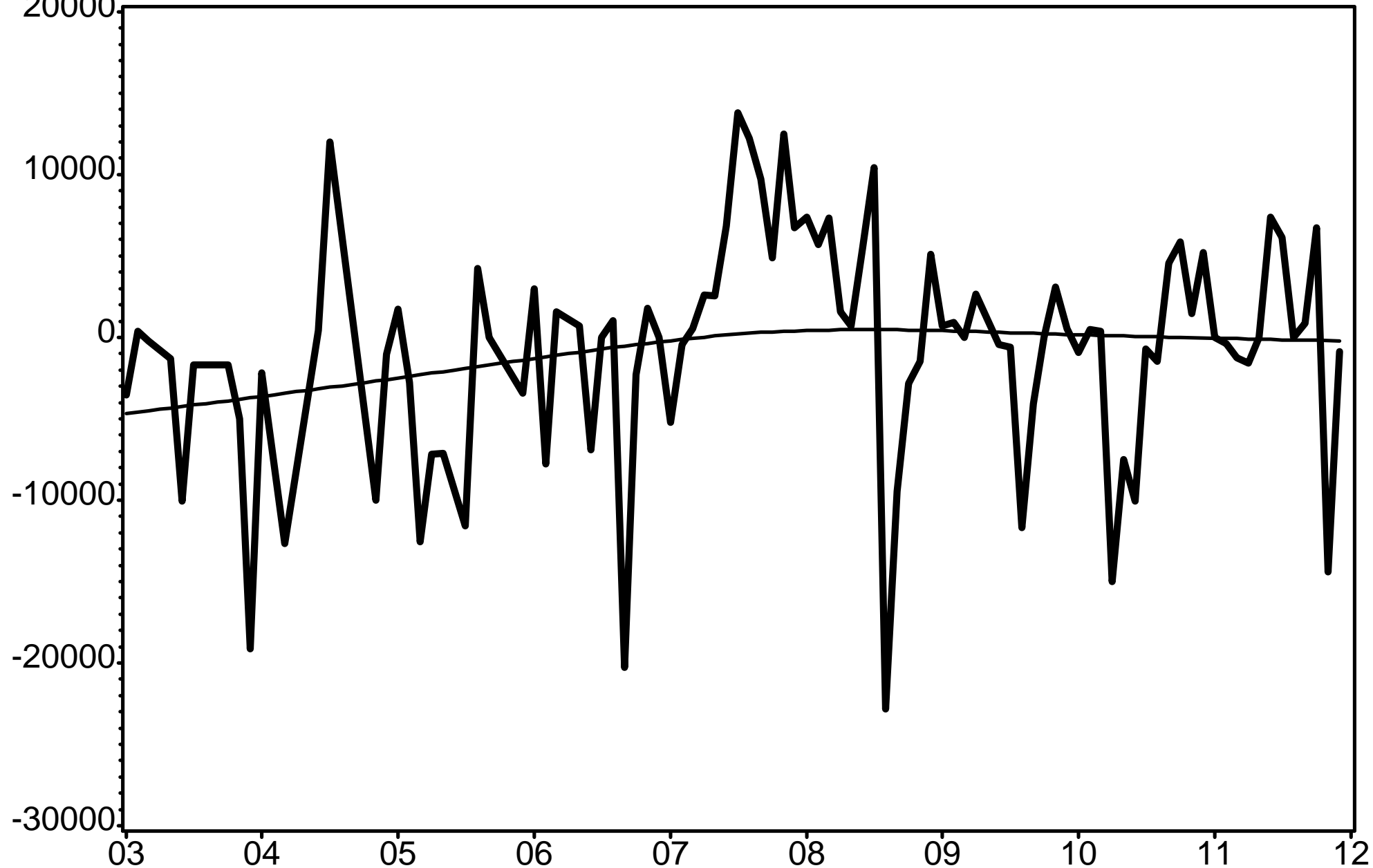
San Carlos Bay Trends Appendix - Display 1482

Monthly Data Time Series

for Surface Specific Conductance in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000

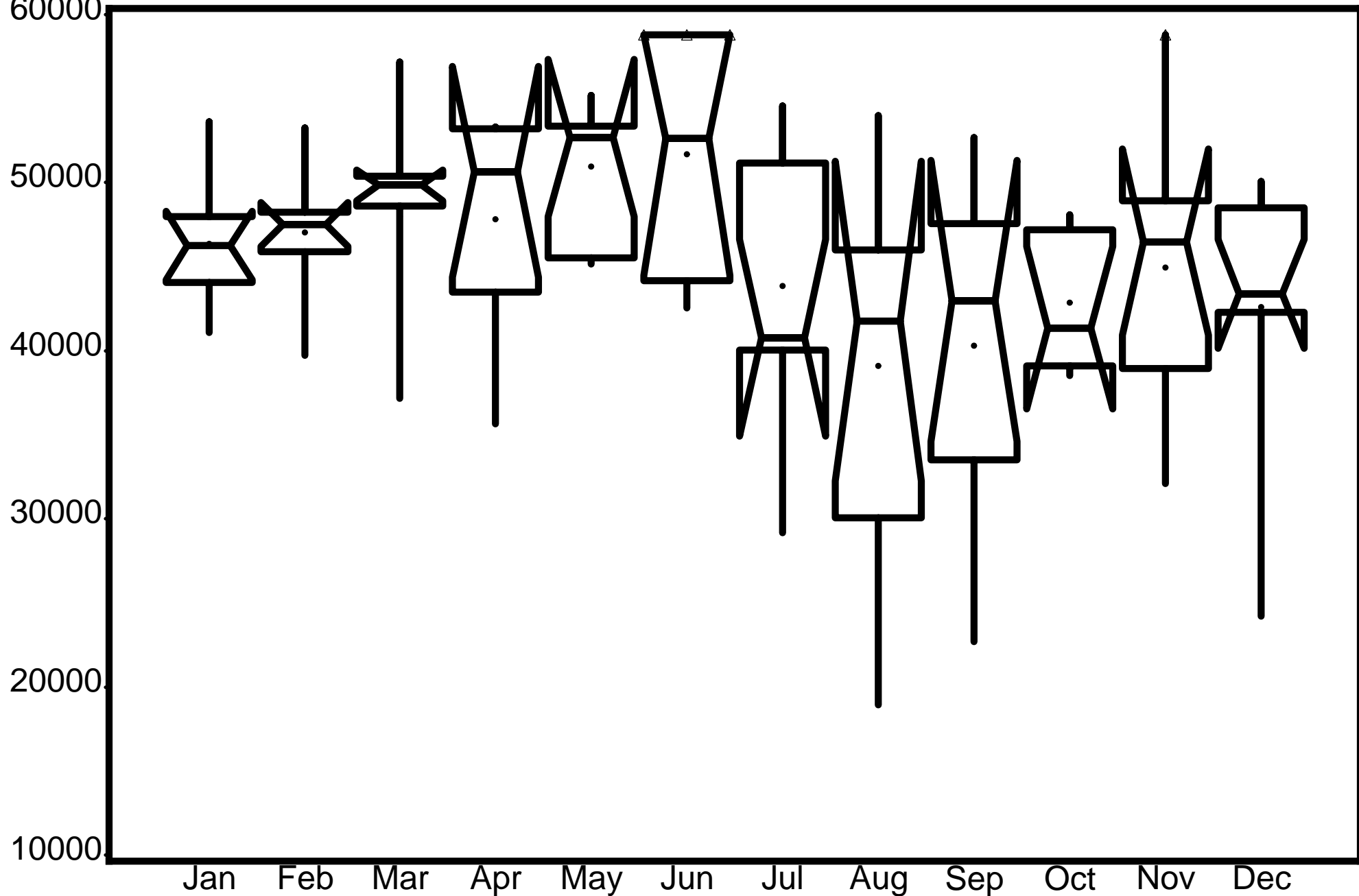


San Carlos Bay Trends Appendix - Display 1483

Seasonal Univariate Statistics

for Surface Specific Conductance in San Carlos Bay

COND
($\mu\text{S}/\text{cm}$)
60000



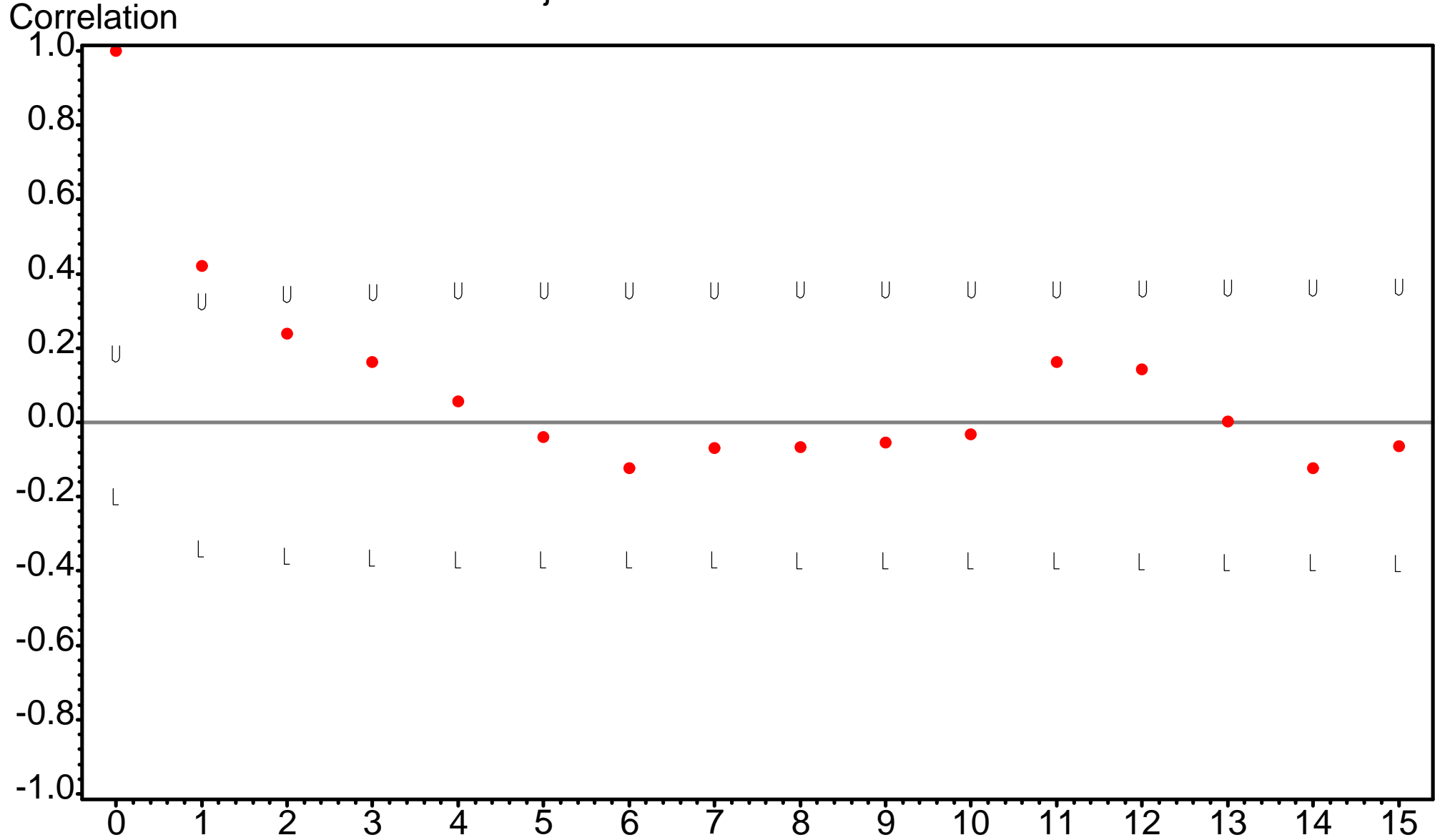
San Carlos Bay Trends Appendix - Display 1484
Autocorrelation Statistics for Surface Specific Conductance in San Carlos Bay

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.420	0.167	0.333	-0.333
2	0.239	0.176	0.352	-0.352
3	0.163	0.179	0.358	-0.358
4	0.057	0.181	0.361	-0.361
5	-0.039	0.181	0.361	-0.361
6	-0.122	0.181	0.362	-0.362
7	-0.068	0.182	0.363	-0.363
8	-0.066	0.182	0.364	-0.364
9	-0.055	0.182	0.364	-0.364
10	-0.033	0.182	0.364	-0.364
11	0.163	0.182	0.364	-0.364
12	0.144	0.184	0.367	-0.367
13	0.002	0.185	0.369	-0.369
14	-0.124	0.185	0.369	-0.369
15	-0.065	0.185	0.371	-0.371

San Carlos Bay Trends Appendix - Display 1485

Correlogram for Surface Specific Conductance in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1486
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.071	0.31	0.31	302.554

San Carlos Bay Trends Appendix - Display 1487
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in San Carlos Bay
Adjusted for Seasonal Medians

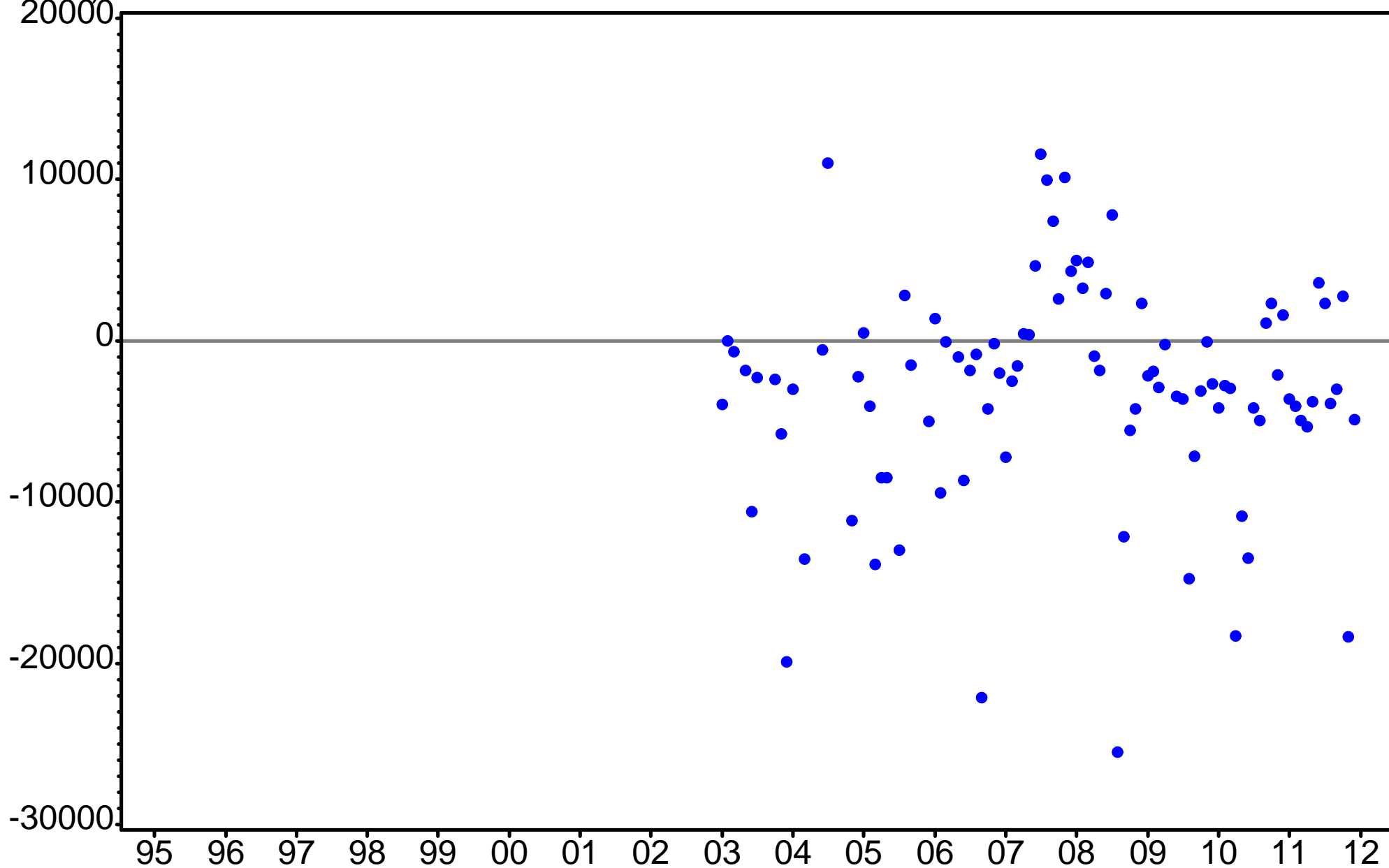
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.15596	0.071504	0.21654	404.5

San Carlos Bay Trends Appendix - Display 1488

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended

Adjusted
($\mu\text{S}/\text{cm}$)

San Carlos Bay



Zero Reference Line Shown

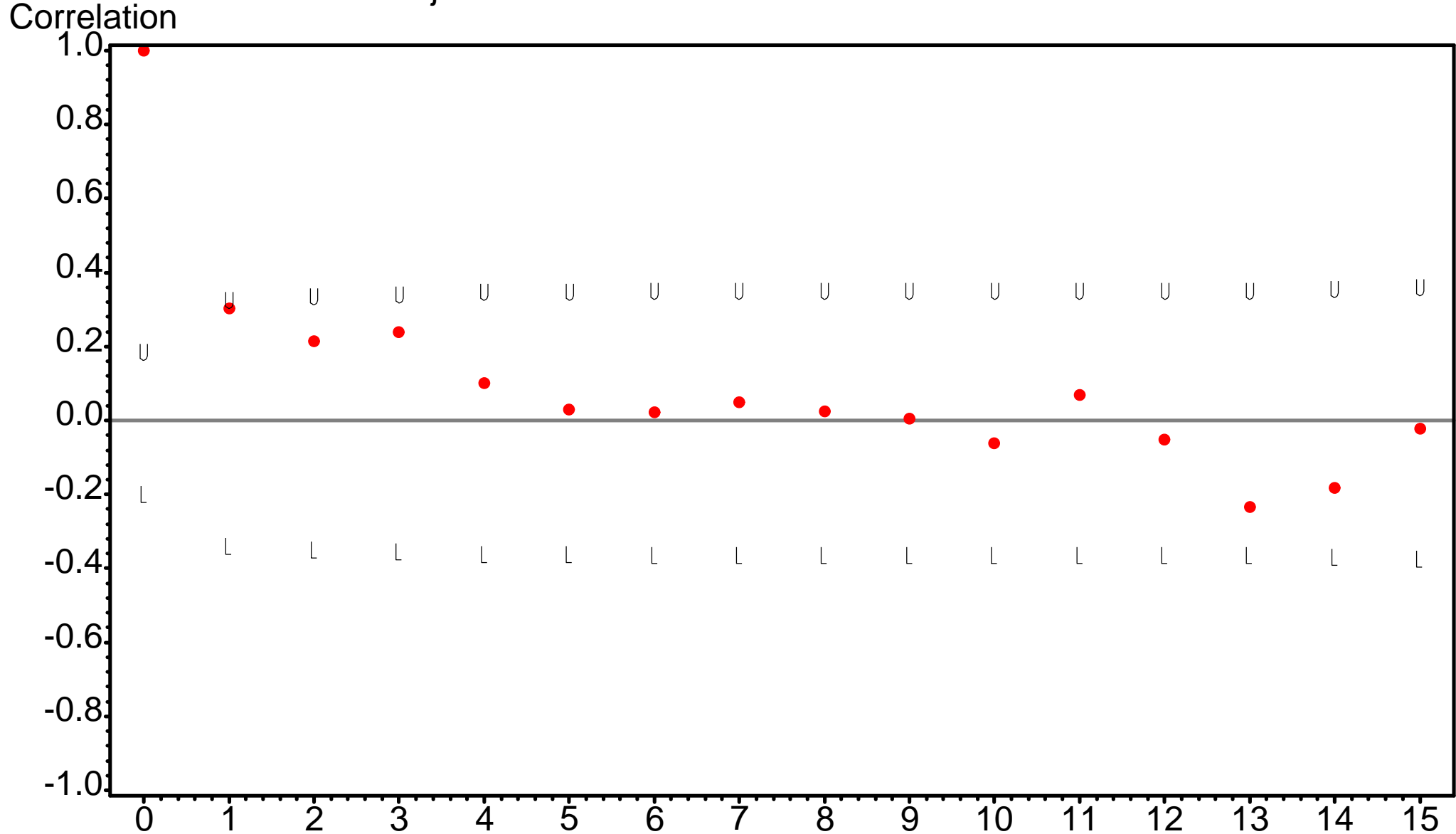
San Carlos Bay Trends Appendix - Display 1489
Autocorrelation Statistics for Surface Specific Conductance in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.304	0.167	0.333	-0.333
2	0.215	0.172	0.343	-0.343
3	0.239	0.174	0.348	-0.348
4	0.101	0.177	0.354	-0.354
5	0.029	0.178	0.355	-0.355
6	0.023	0.178	0.356	-0.356
7	0.050	0.178	0.356	-0.356
8	0.024	0.178	0.356	-0.356
9	0.006	0.178	0.356	-0.356
10	-0.062	0.178	0.356	-0.356
11	0.068	0.178	0.356	-0.356
12	-0.051	0.178	0.357	-0.357
13	-0.234	0.179	0.357	-0.357
14	-0.183	0.181	0.363	-0.363
15	-0.022	0.183	0.366	-0.366

San Carlos Bay Trends Appendix - Display 1490

Correlogram for Surface Specific Conductance in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

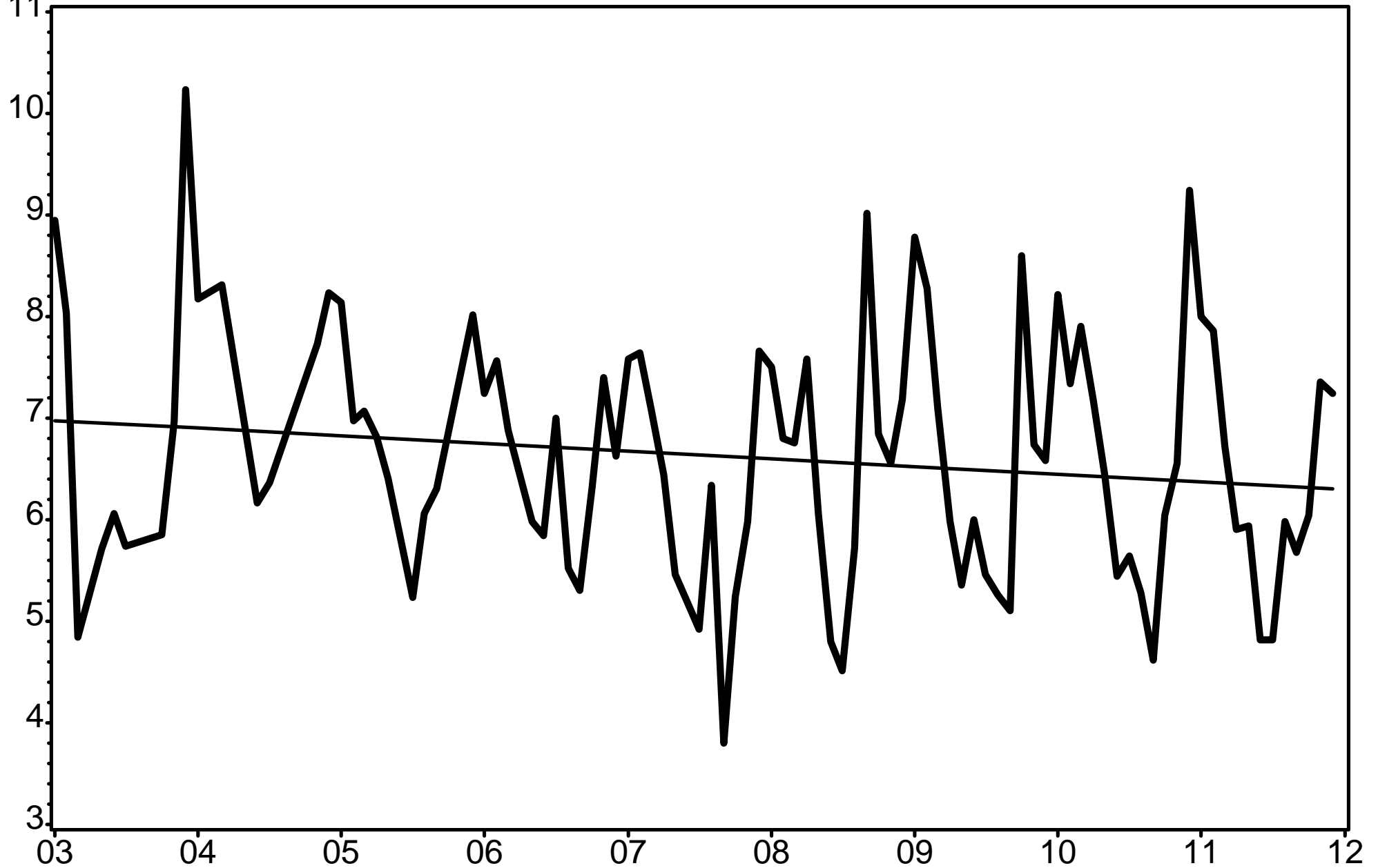
San Carlos Bay Trends Appendix - Display 1491

Monthly Data Time Series

for Surface Dissolved Oxygen in San Carlos Bay

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



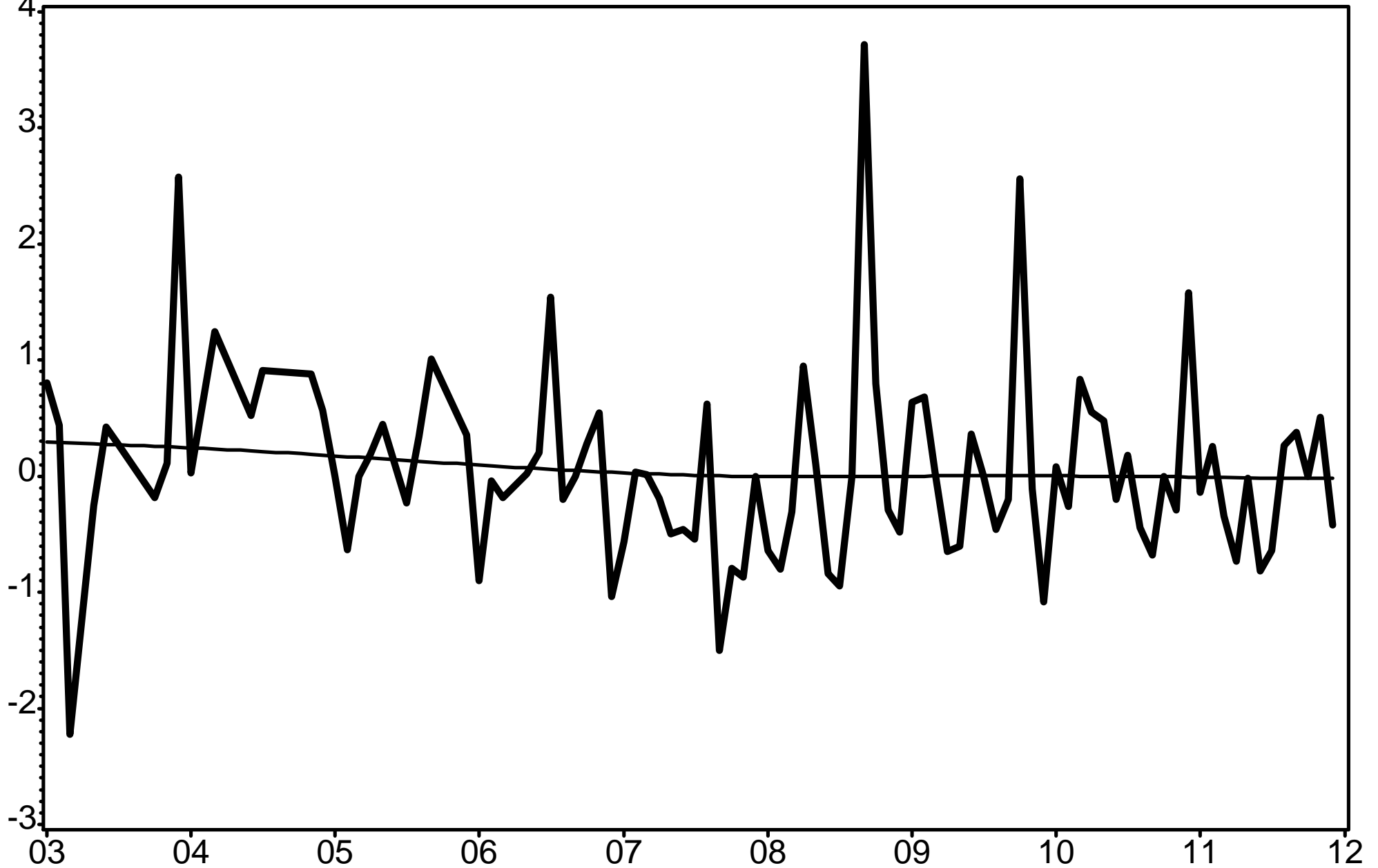
San Carlos Bay Trends Appendix - Display 1492

Monthly Data Time Series

for Surface Dissolved Oxygen in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

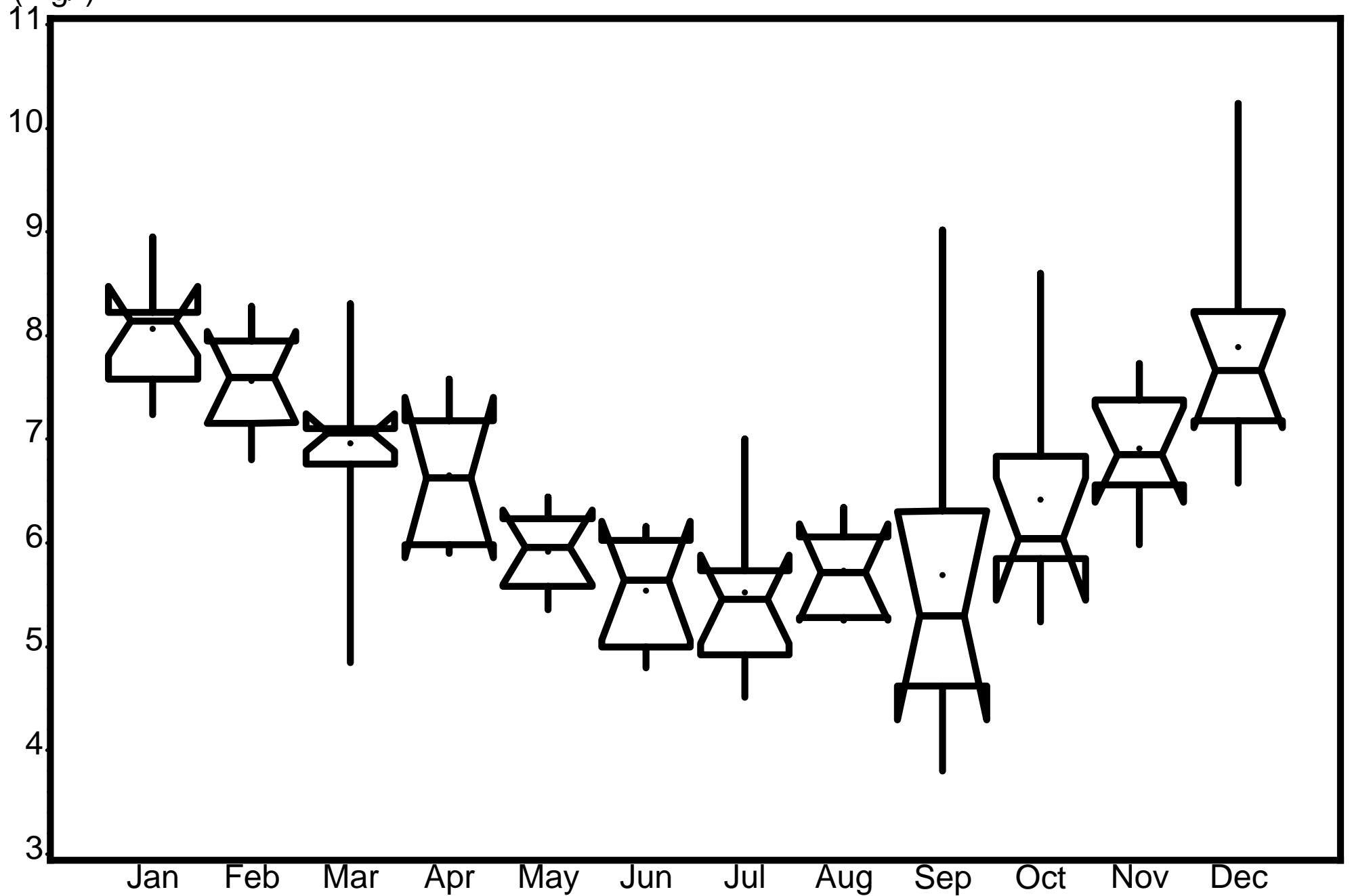


San Carlos Bay Trends Appendix - Display 1493

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in San Carlos Bay

DO_mgl
(mg/l)



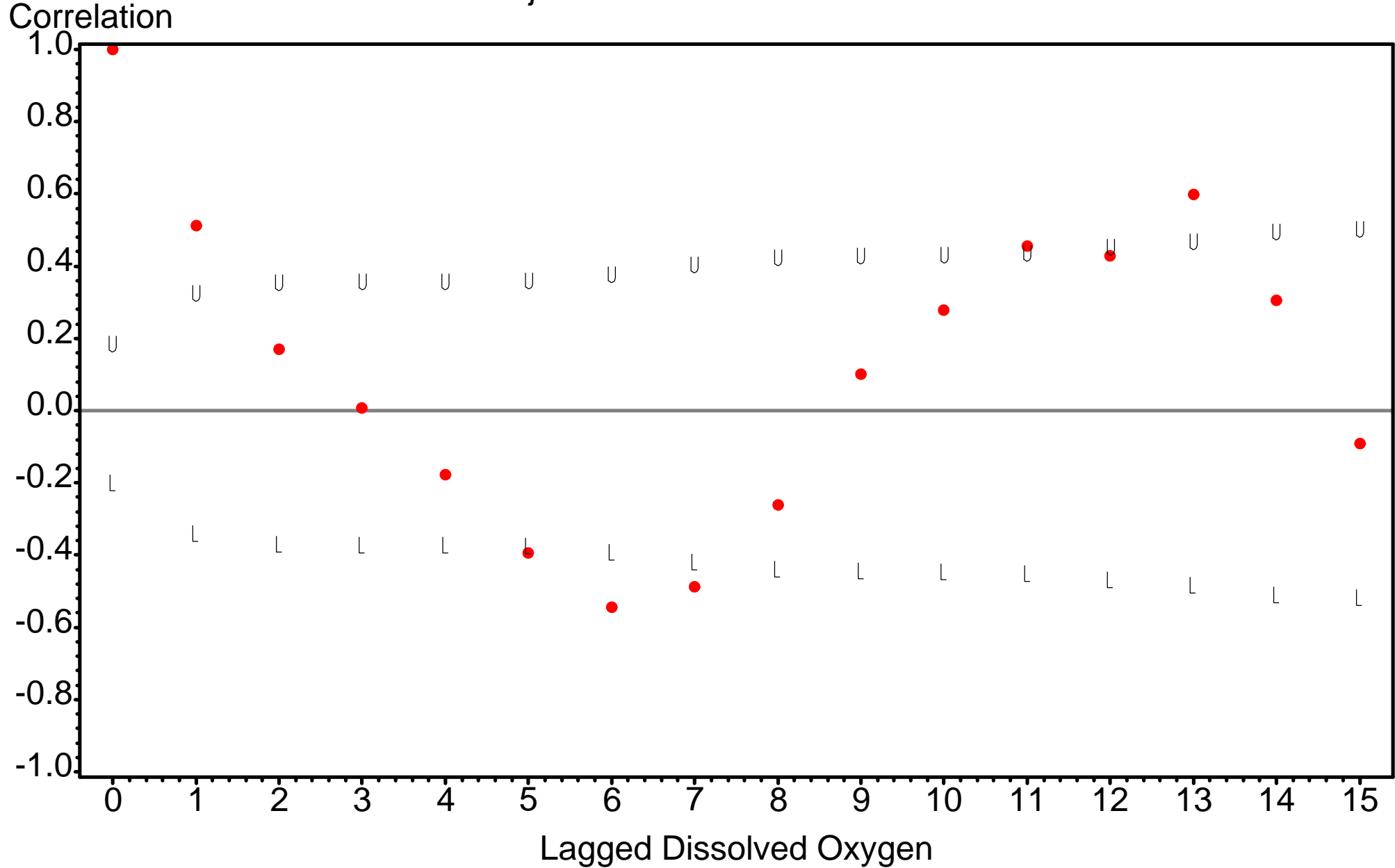
San Carlos Bay Trends Appendix - Display 1494
 Autocorrelation Statistics for Surface Dissolved Oxygen in San Carlos Bay

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.511	0.167	0.333	-0.333
2	0.170	0.181	0.361	-0.361
3	0.008	0.182	0.364	-0.364
4	-0.178	0.182	0.364	-0.364
5	-0.394	0.184	0.367	-0.367
6	-0.543	0.191	0.383	-0.383
7	-0.487	0.205	0.410	-0.410
8	-0.261	0.216	0.431	-0.431
9	0.100	0.218	0.437	-0.437
10	0.278	0.219	0.438	-0.438
11	0.455	0.222	0.444	-0.444
12	0.429	0.231	0.461	-0.461
13	0.599	0.238	0.476	-0.476
14	0.305	0.251	0.503	-0.503
15	-0.092	0.255	0.510	-0.510

San Carlos Bay Trends Appendix - Display 1495

Correlogram for Surface Dissolved Oxygen in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1496
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.104	0.135	0.135	-0.075

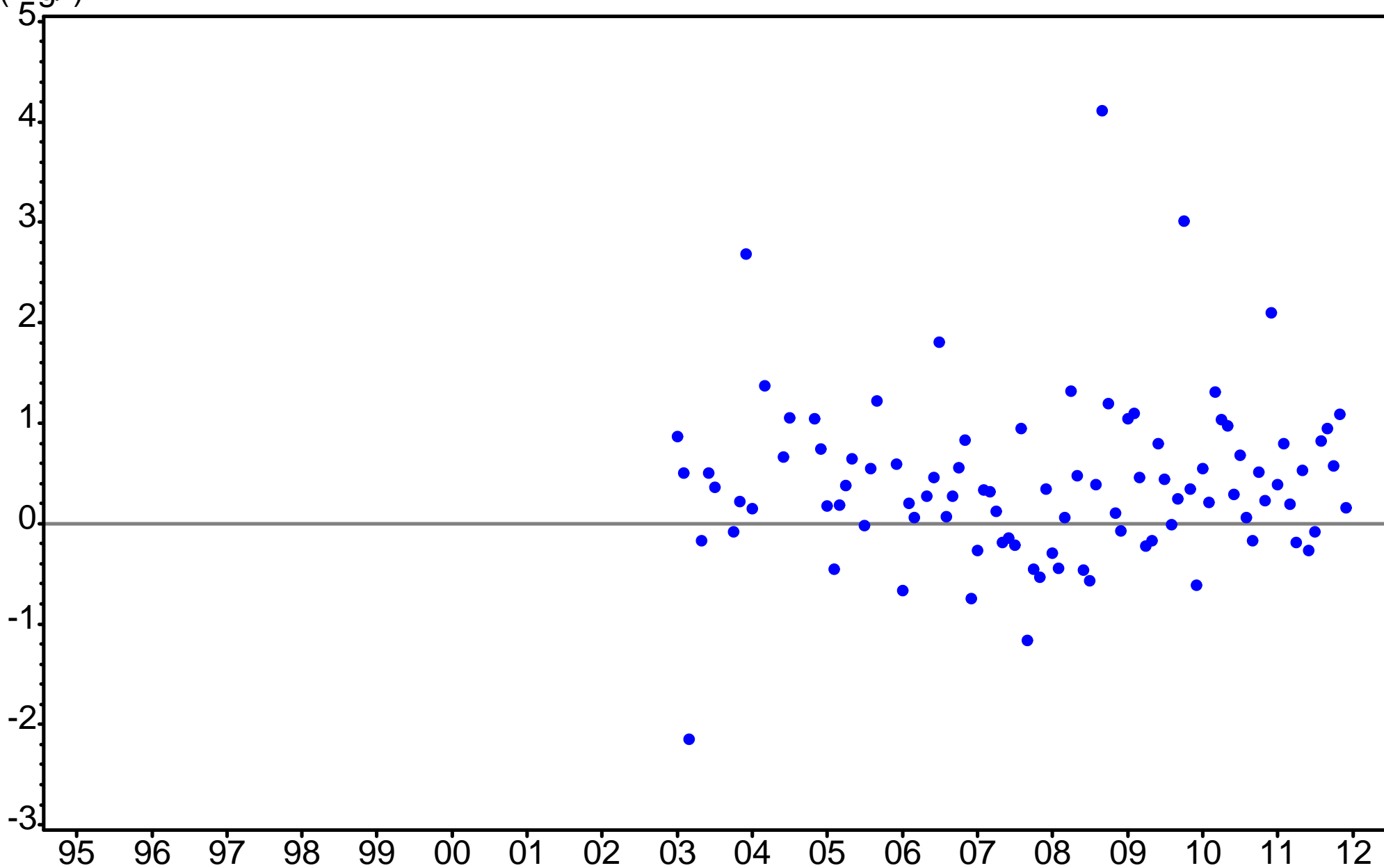
San Carlos Bay Trends Appendix - Display 1497
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.16767	0.050176	0.11504	-0.058667

San Carlos Bay Trends Appendix - Display 1498

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

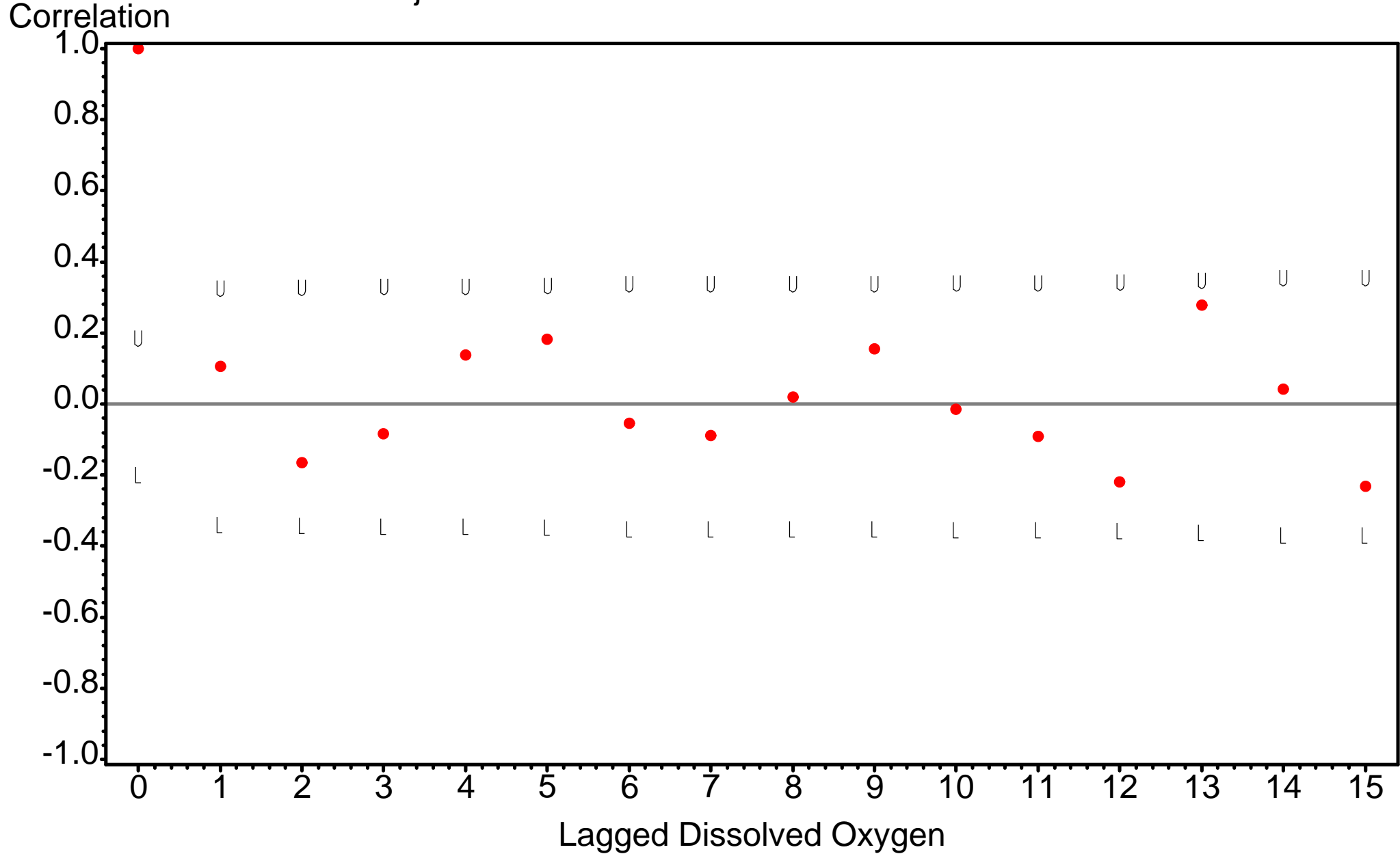
San Carlos Bay Trends Appendix - Display 1499
Autocorrelation Statistics for Surface Dissolved Oxygen in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.107	0.167	0.333	-0.333
2	-0.165	0.167	0.335	-0.335
3	-0.084	0.169	0.338	-0.338
4	0.139	0.169	0.338	-0.338
5	0.183	0.170	0.340	-0.340
6	-0.055	0.172	0.344	-0.344
7	-0.088	0.172	0.344	-0.344
8	0.020	0.173	0.345	-0.345
9	0.155	0.173	0.345	-0.345
10	-0.014	0.174	0.348	-0.348
11	-0.091	0.174	0.348	-0.348
12	-0.219	0.174	0.349	-0.349
13	0.279	0.177	0.354	-0.354
14	0.043	0.181	0.362	-0.362
15	-0.232	0.181	0.362	-0.362

San Carlos Bay Trends Appendix - Display 1500

Correlogram for Surface Dissolved Oxygen in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

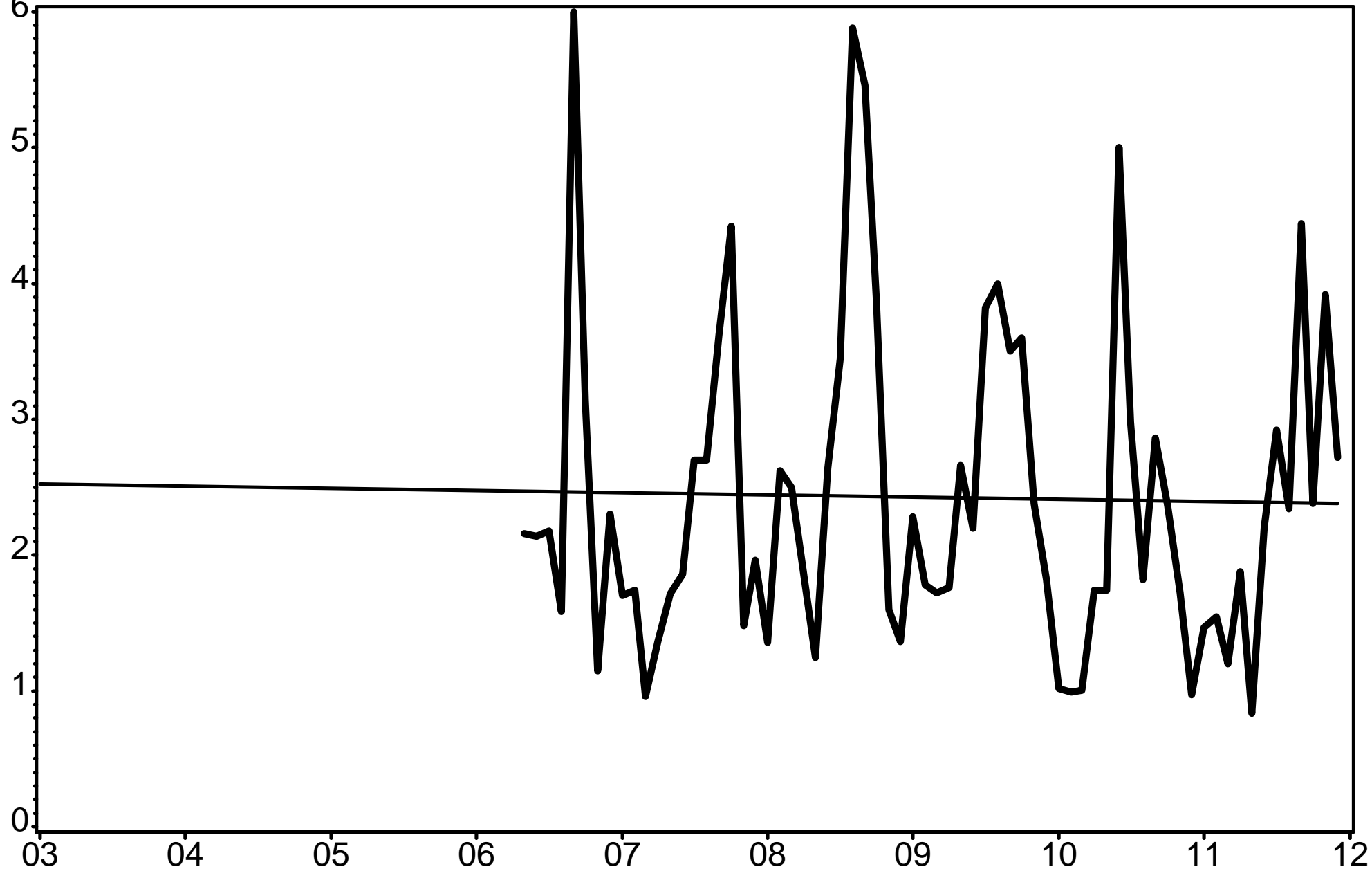
San Carlos Bay Trends Appendix - Display 1501

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

Not Adjusted for Seasonal Medians

DSI_mgl
(mg/L)



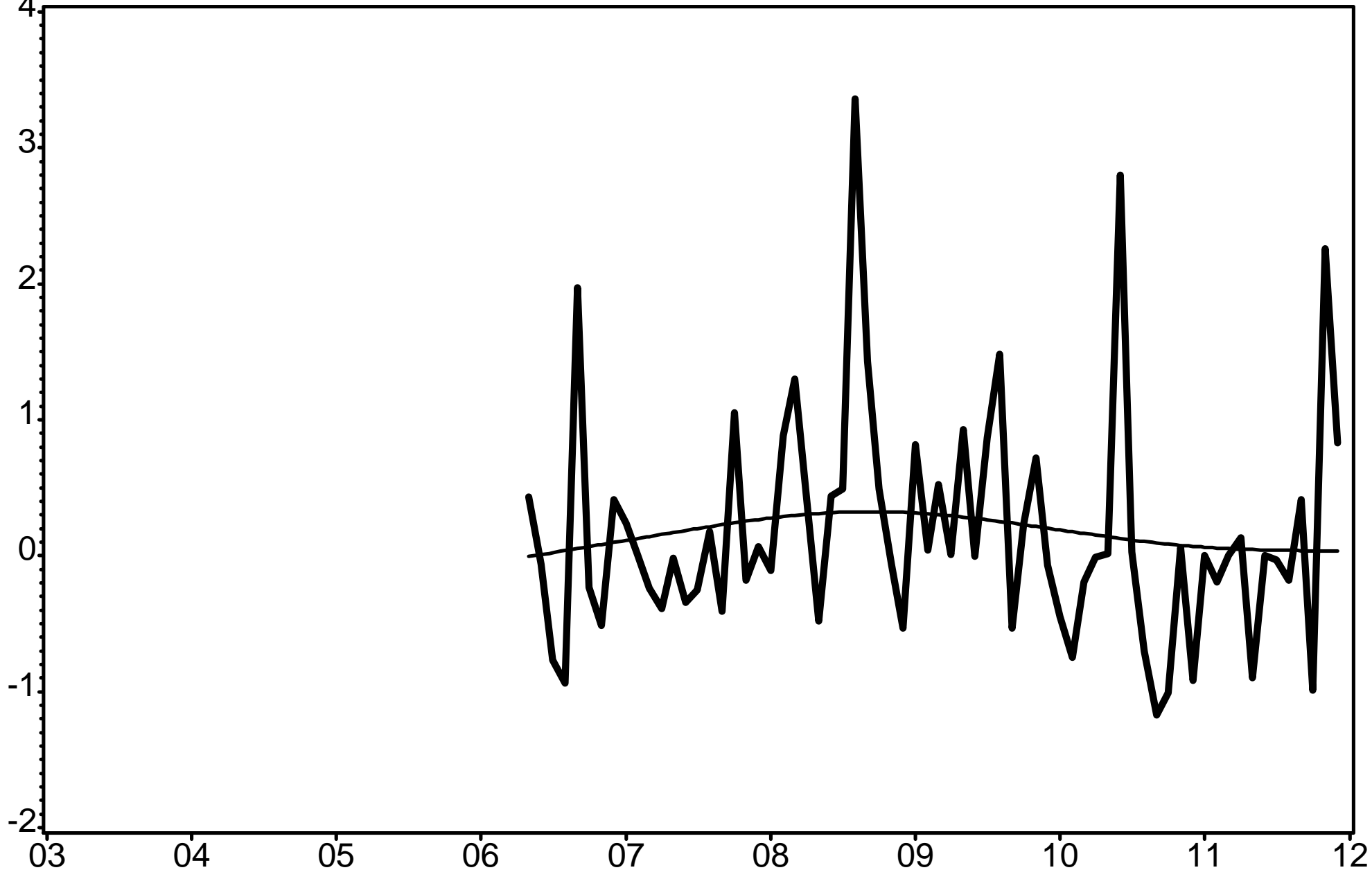
San Carlos Bay Trends Appendix - Display 1502

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
DSI_mgl
(mg/L)

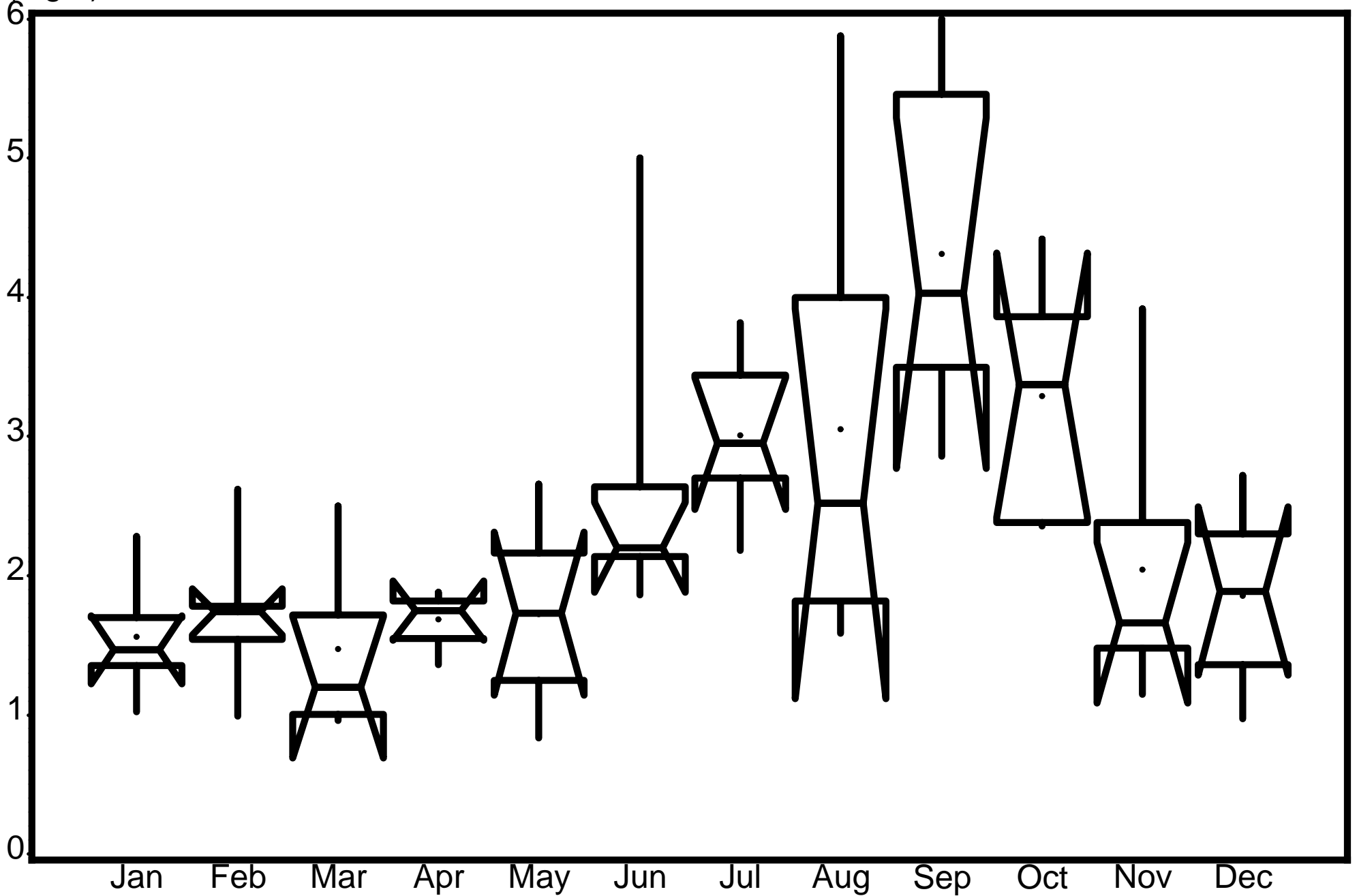


San Carlos Bay Trends Appendix - Display 1503

Seasonal Univariate Statistics

for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

DSI_mgl
(mg/L)



San Carlos Bay Trends Appendix - Display 1504

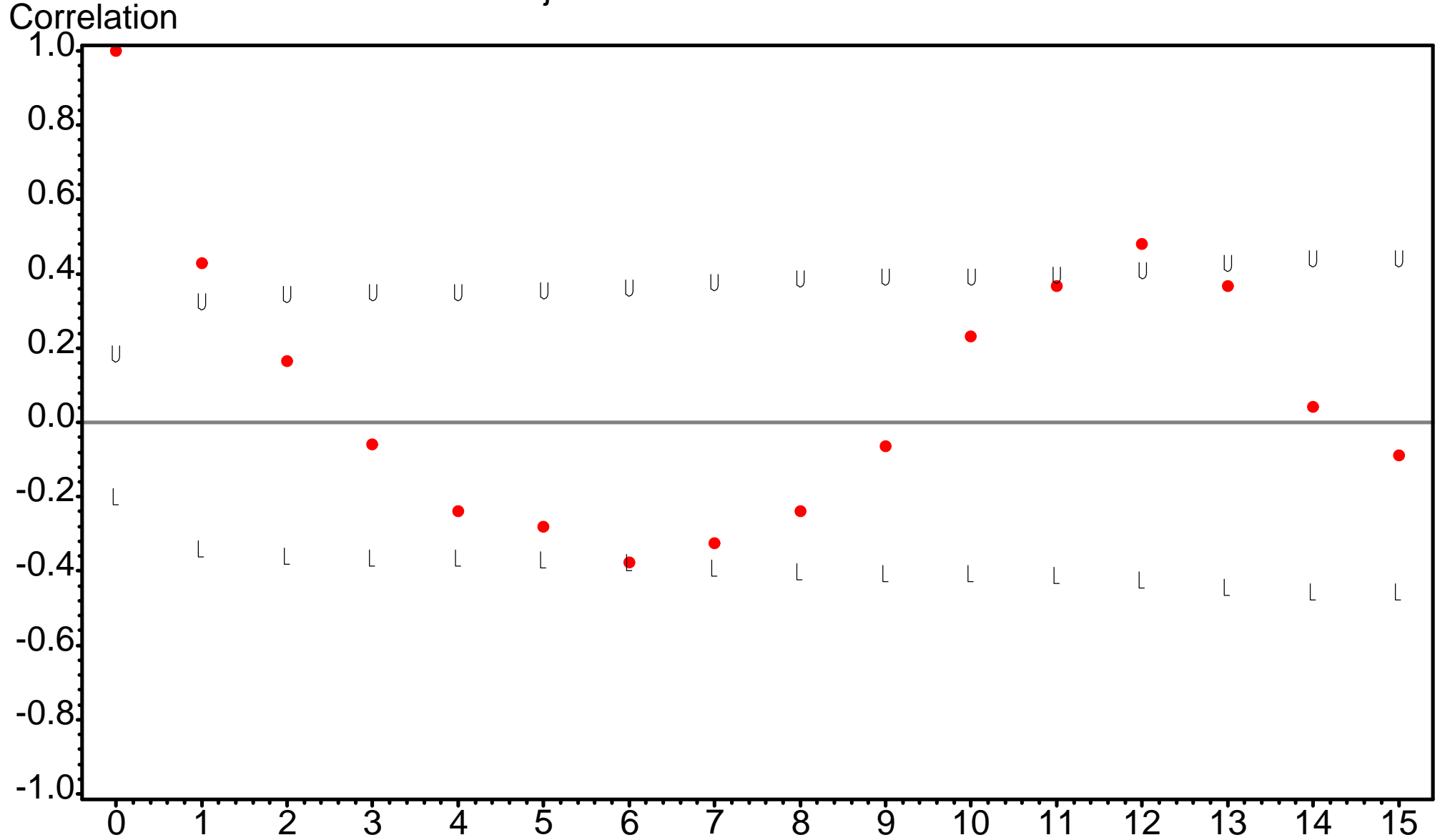
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.429	0.167	0.333	-0.333
2	0.165	0.177	0.353	-0.353
3	-0.059	0.178	0.356	-0.356
4	-0.239	0.178	0.356	-0.356
5	-0.281	0.181	0.362	-0.362
6	-0.376	0.185	0.370	-0.370
7	-0.324	0.192	0.384	-0.384
8	-0.240	0.197	0.394	-0.394
9	-0.064	0.200	0.399	-0.399
10	0.231	0.200	0.400	-0.400
11	0.368	0.202	0.405	-0.405
12	0.480	0.209	0.417	-0.417
13	0.368	0.218	0.437	-0.437
14	0.041	0.224	0.448	-0.448
15	-0.089	0.224	0.448	-0.448

San Carlos Bay Trends Appendix - Display 1505

Correlogram for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

Unadjusted for Seasonal Median



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1506
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.02	0.812	0.812	0.01

San Carlos Bay Trends Appendix - Display 1507
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.012821	0.95279	0.96542	.006

San Carlos Bay Trends Appendix - Display 1509

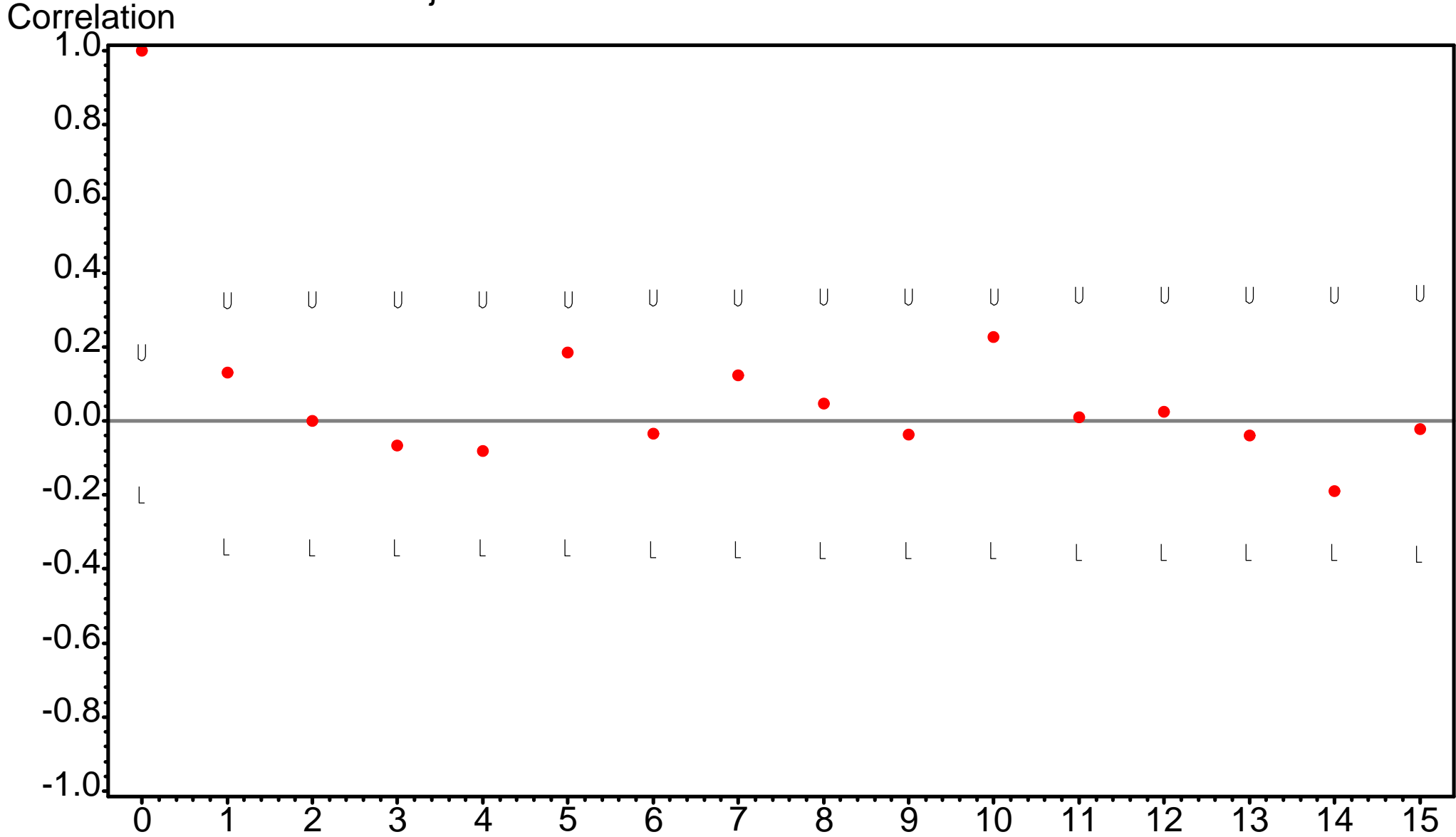
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in San Carlos Bay Adjusted for Seasonal Median and Detrended

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.131	0.167	0.333	-0.333
2	0.001	0.168	0.335	-0.335
3	-0.066	0.168	0.335	-0.335
4	-0.081	0.168	0.336	-0.336
5	0.185	0.168	0.336	-0.336
6	-0.035	0.170	0.340	-0.340
7	0.122	0.170	0.340	-0.340
8	0.047	0.171	0.342	-0.342
9	-0.036	0.171	0.342	-0.342
10	0.227	0.171	0.342	-0.342
11	0.010	0.174	0.348	-0.348
12	0.024	0.174	0.348	-0.348
13	-0.039	0.174	0.348	-0.348
14	-0.189	0.174	0.348	-0.348
15	-0.022	0.176	0.352	-0.352

San Carlos Bay Trends Appendix - Display 1510

Correlogram for Surface Dissolved Silica (as SiO₂) in San Carlos Bay

Adjusted for Seasonal Median and Detrended



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

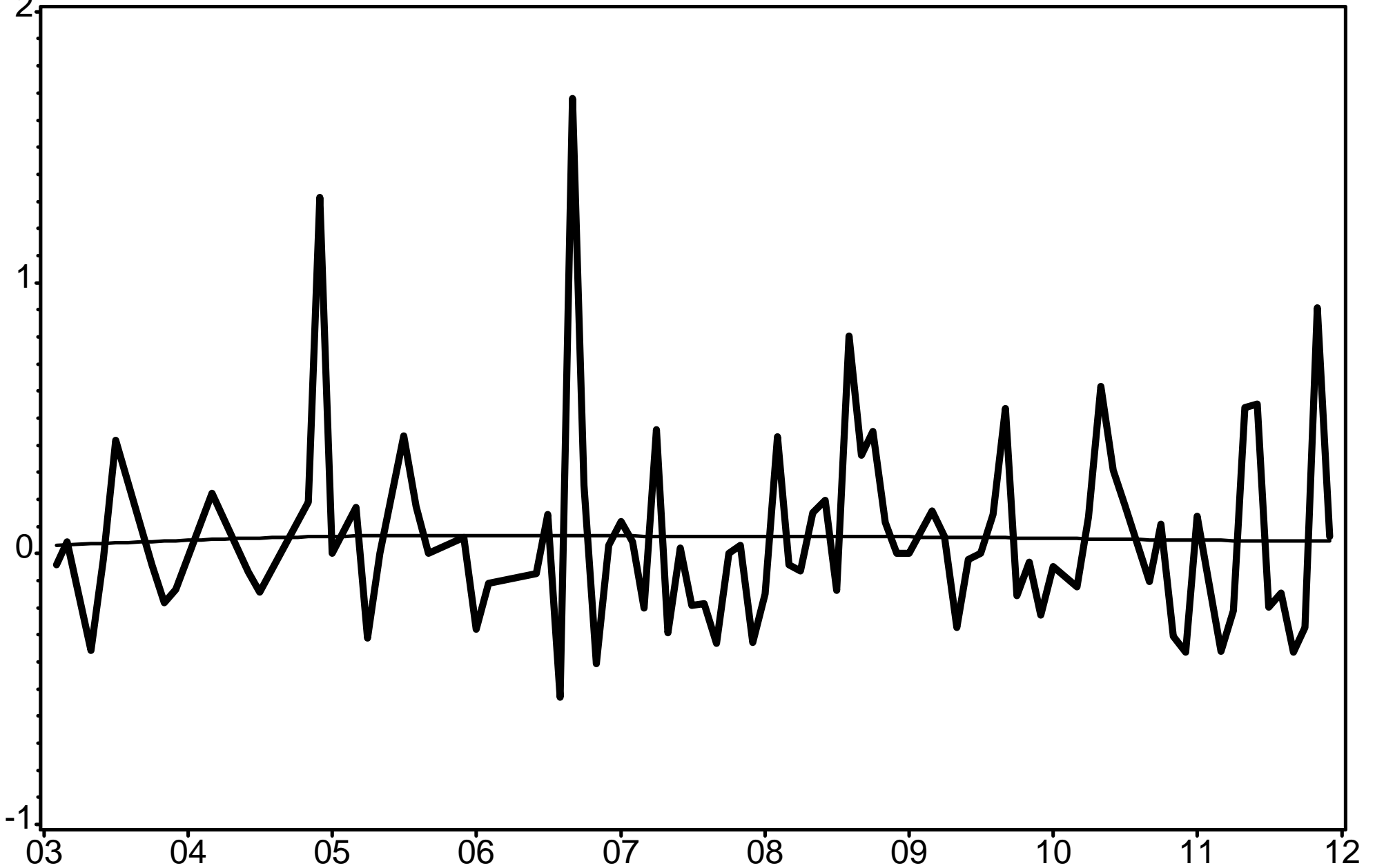
San Carlos Bay Trends Appendix - Display 1512

Monthly Data Time Series

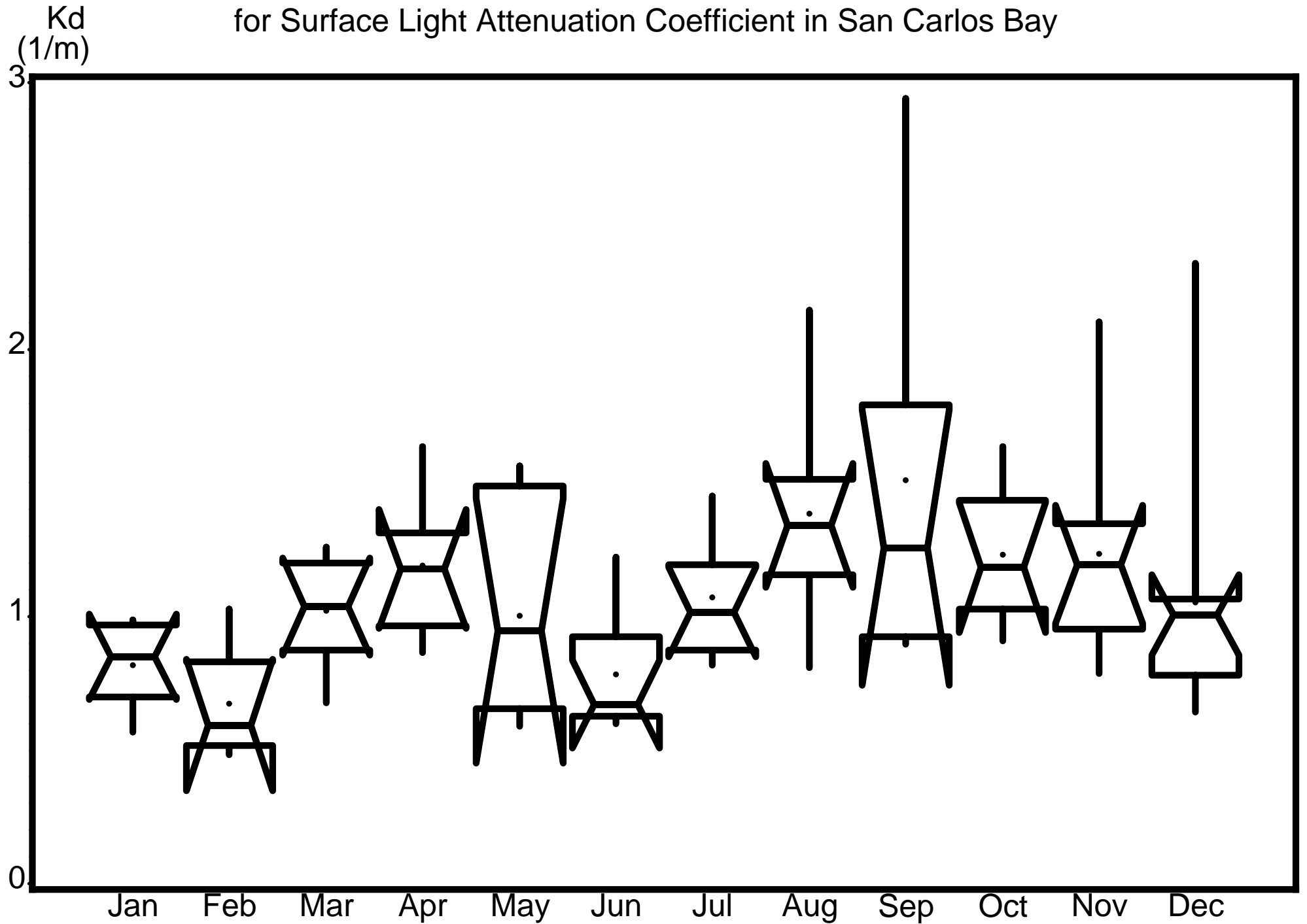
for Surface Light Attenuation Coefficient in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



San Carlos Bay Trends Appendix - Display 1513
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in San Carlos Bay



San Carlos Bay Trends Appendix - Display 1514

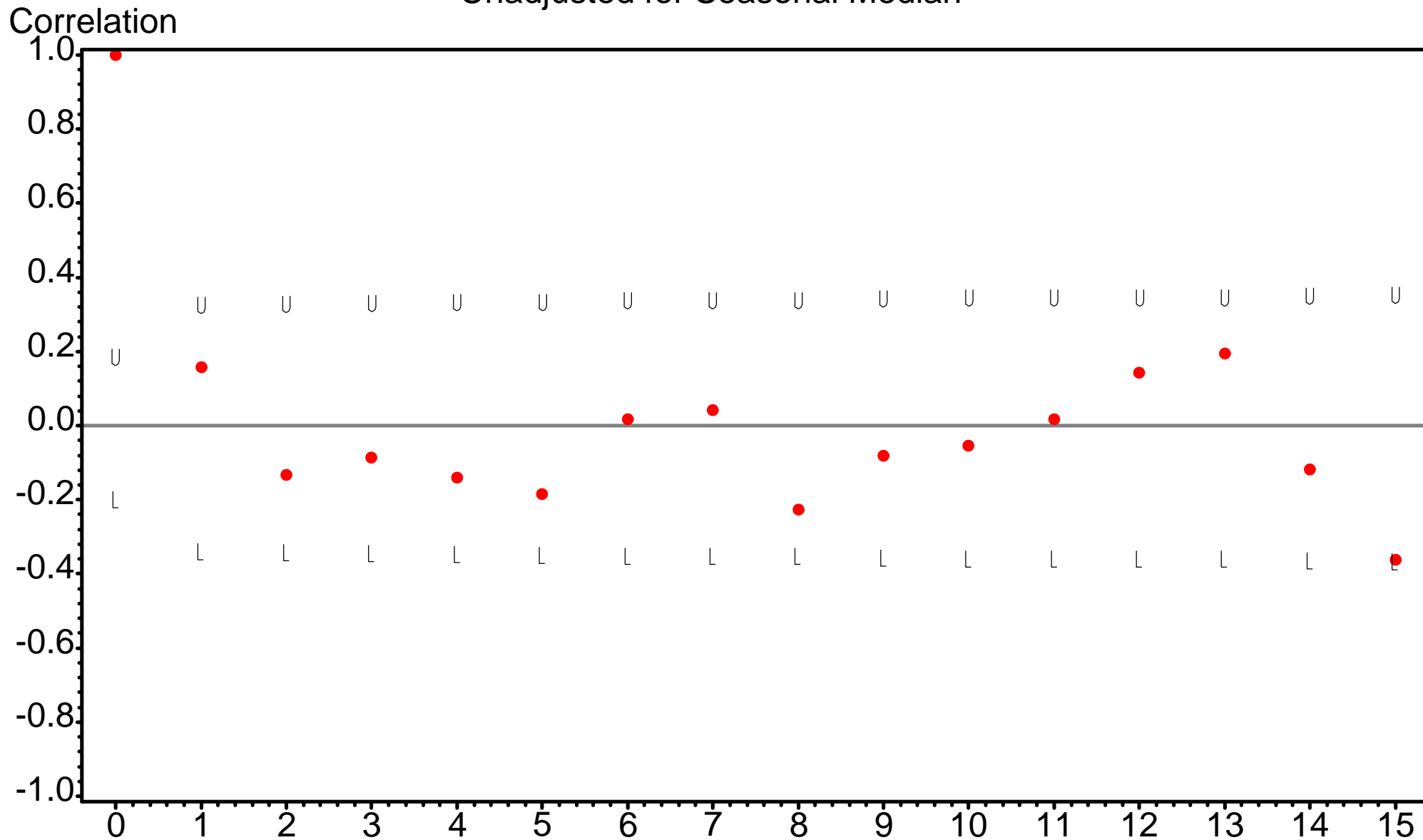
Autocorrelation Statistics for Surface Light Attenuation Coefficient in San Carlos Bay

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.157	0.167	0.333	-0.333
2	-0.132	0.168	0.336	-0.336
3	-0.085	0.169	0.338	-0.338
4	-0.140	0.169	0.339	-0.339
5	-0.184	0.170	0.341	-0.341
6	0.018	0.172	0.345	-0.345
7	0.043	0.172	0.345	-0.345
8	-0.227	0.172	0.345	-0.345
9	-0.080	0.175	0.350	-0.350
10	-0.053	0.175	0.351	-0.351
11	0.017	0.176	0.351	-0.351
12	0.143	0.176	0.351	-0.351
13	0.195	0.177	0.353	-0.353
14	-0.119	0.179	0.357	-0.357
15	-0.362	0.179	0.359	-0.359

San Carlos Bay Trends Appendix - Display 1515

Correlogram for Surface Light Attenuation Coefficient in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1516
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in San Carlos Bay
Unadjusted for Seasonal Medians

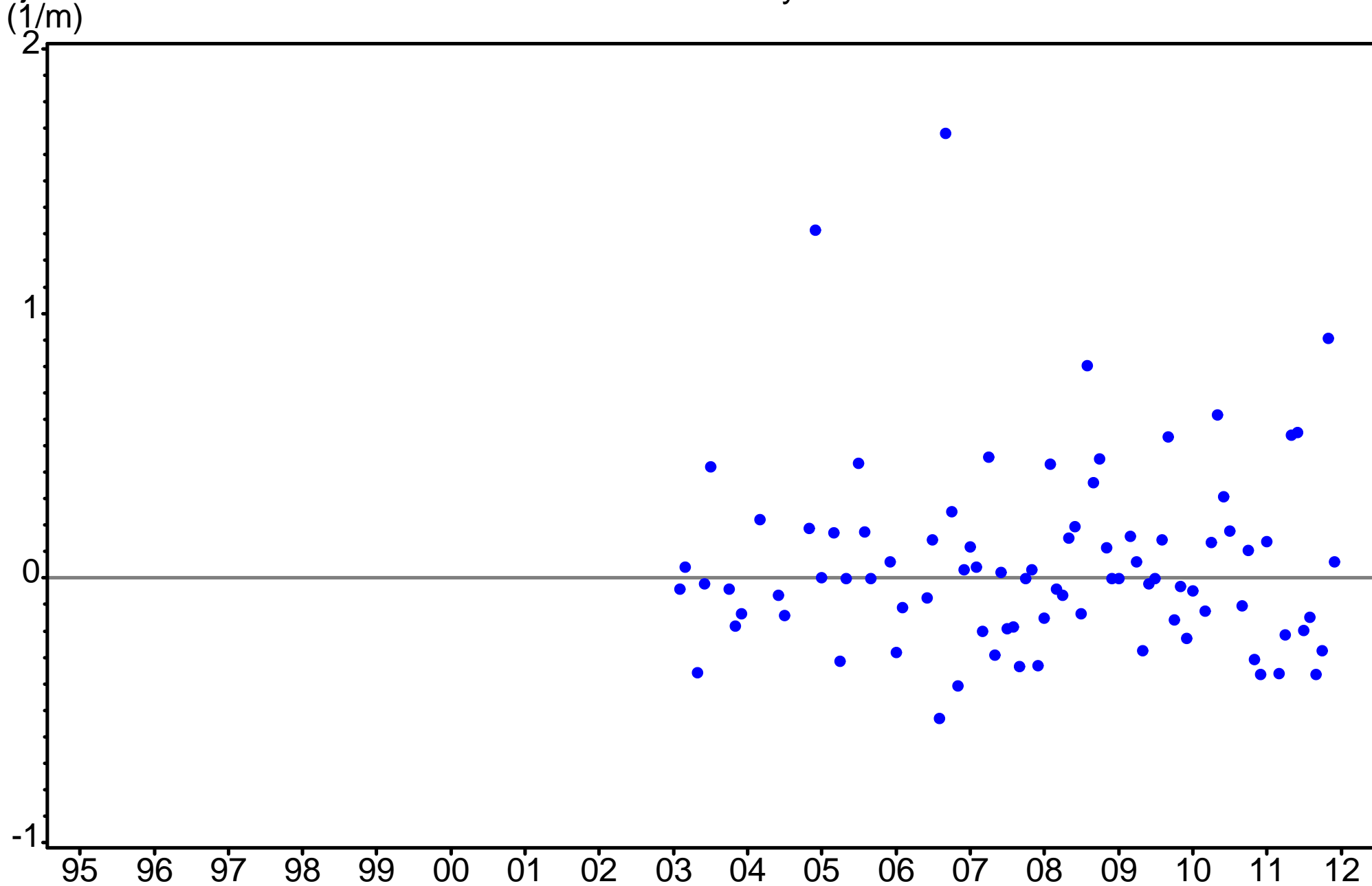
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.088	0.23	0.23	0.017

San Carlos Bay Trends Appendix - Display 1517
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.00362319	1	1	.000166667

San Carlos Bay Trends Appendix - Display 1518

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted
San Carlos Bay



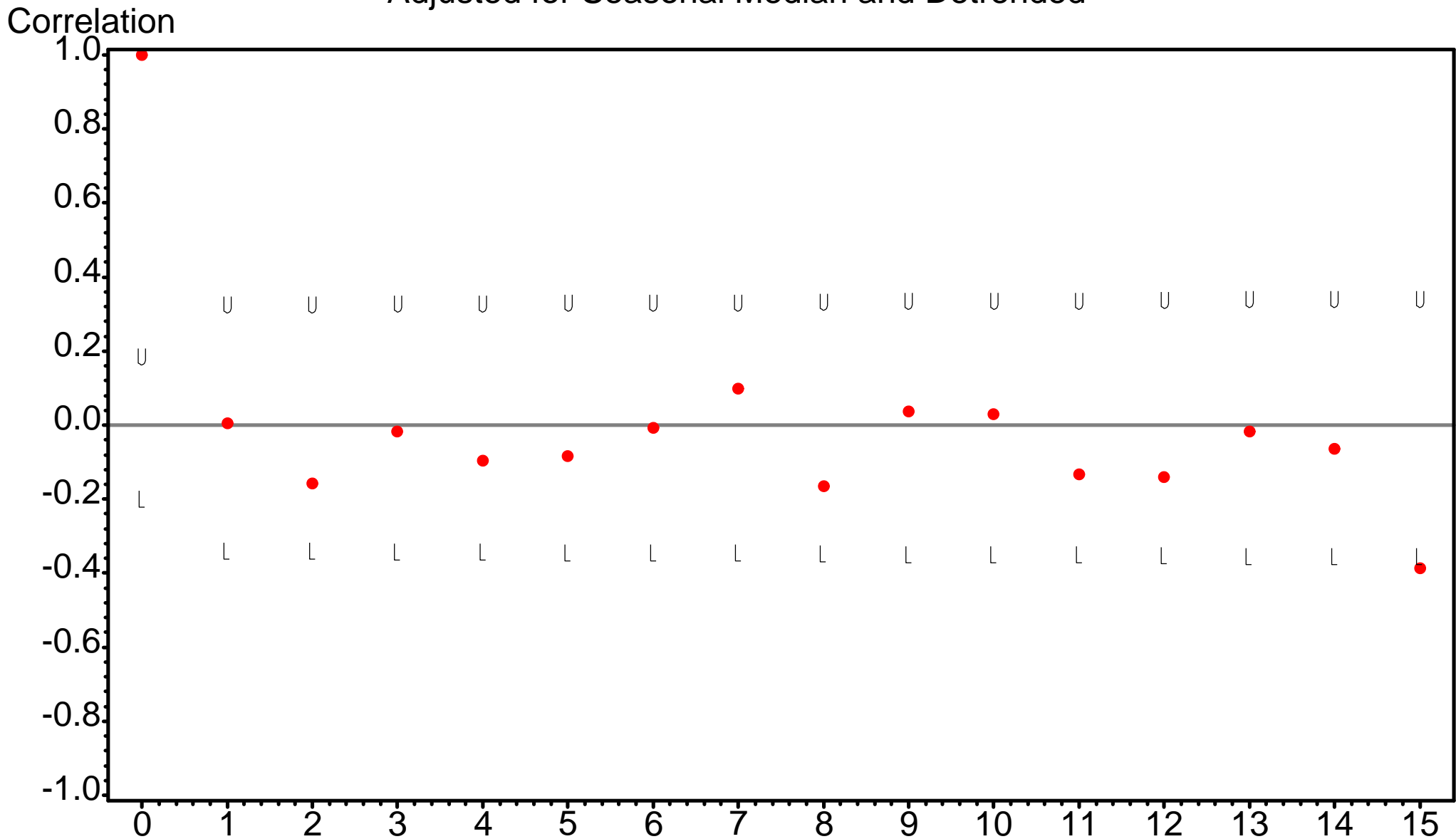
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1519
Autocorrelation Statistics for Surface Light Attenuation Coefficient in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.006	0.167	0.333	-0.333
2	-0.158	0.167	0.333	-0.333
3	-0.016	0.168	0.336	-0.336
4	-0.096	0.168	0.336	-0.336
5	-0.084	0.169	0.337	-0.337
6	-0.008	0.169	0.338	-0.338
7	0.098	0.169	0.338	-0.338
8	-0.166	0.169	0.339	-0.339
9	0.036	0.171	0.342	-0.342
10	0.030	0.171	0.342	-0.342
11	-0.134	0.171	0.342	-0.342
12	-0.141	0.172	0.344	-0.344
13	-0.016	0.173	0.346	-0.346
14	-0.064	0.173	0.346	-0.346
15	-0.386	0.173	0.347	-0.347

San Carlos Bay Trends Appendix - Display 1520

Correlogram for Surface Light Attenuation Coefficient in San Carlos Bay Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

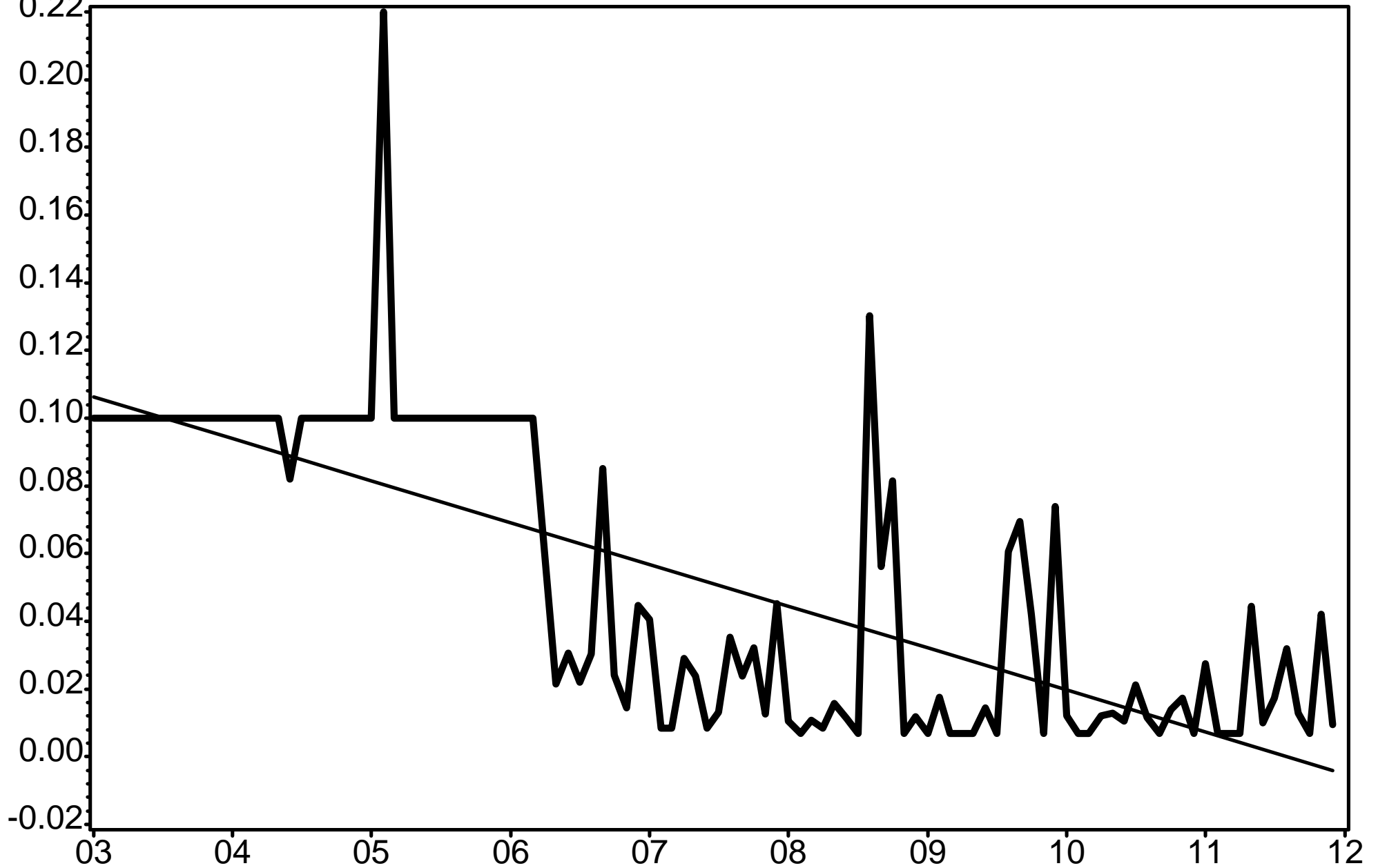
San Carlos Bay Trends Appendix - Display 1521

Monthly Data Time Series

for Surface Ammonia as N Total in San Carlos Bay

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



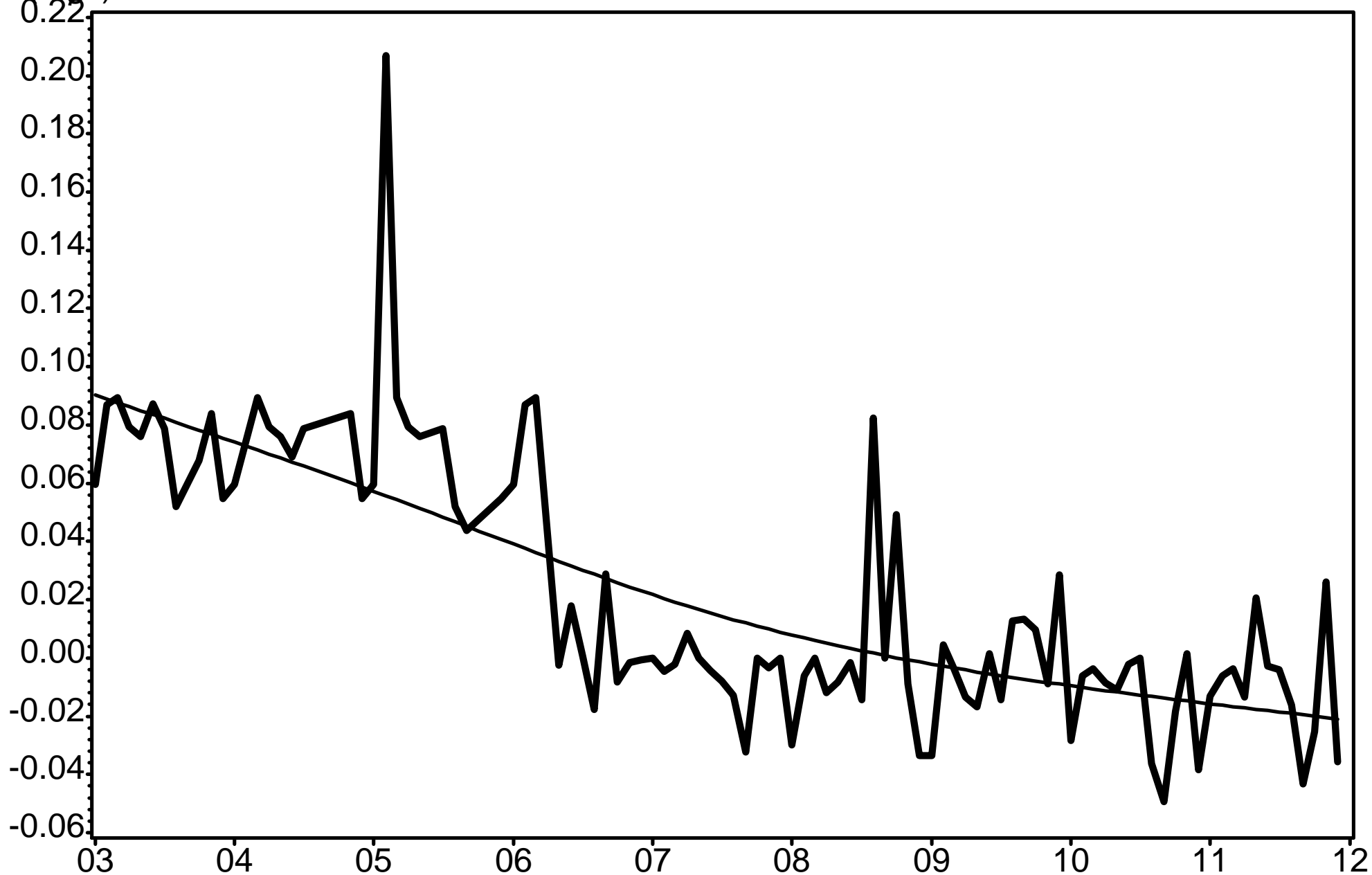
San Carlos Bay Trends Appendix - Display 1522

Monthly Data Time Series

for Surface Ammonia as N Total in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
NH3_mgl
(mg/l)

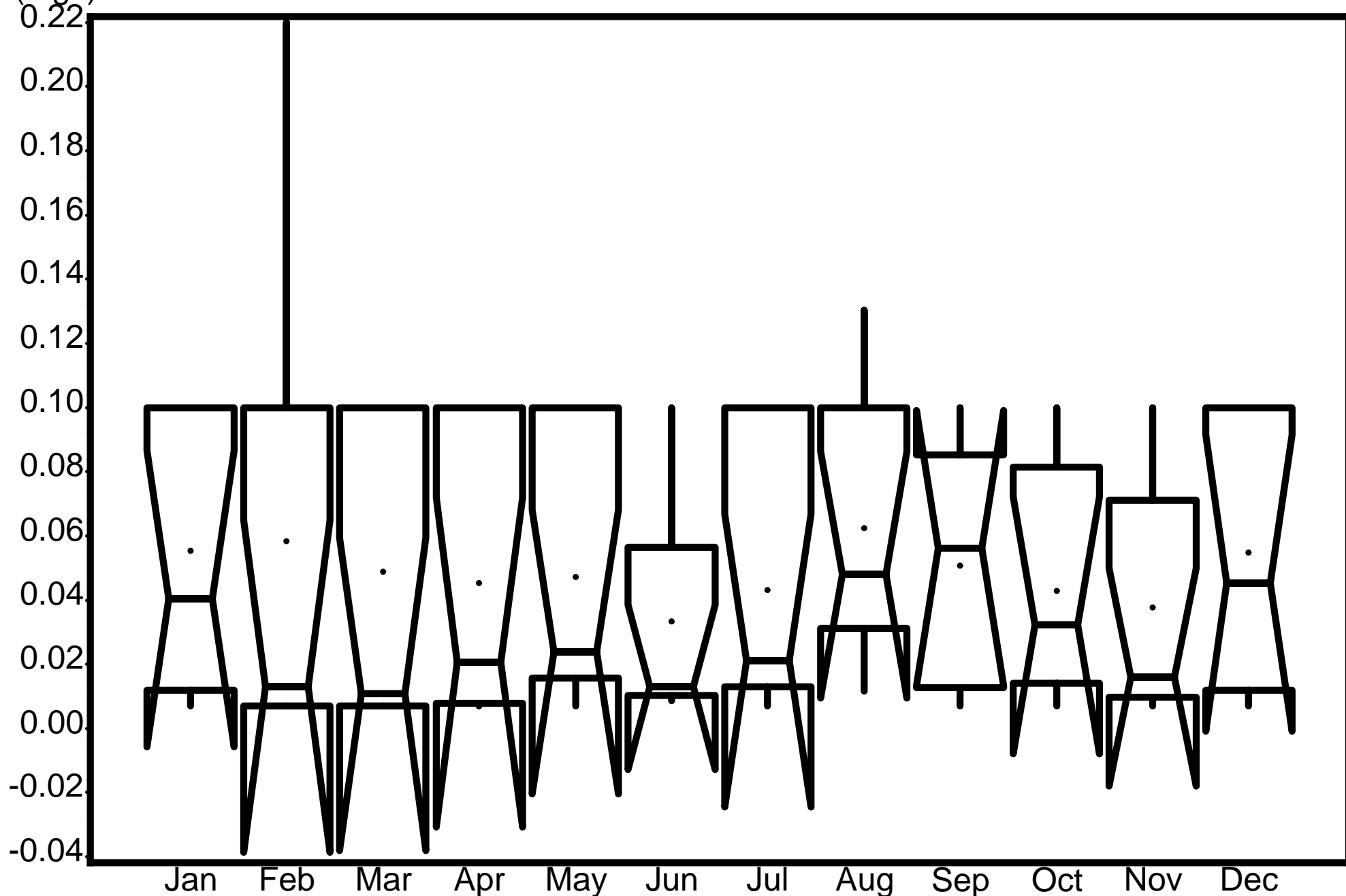


San Carlos Bay Trends Appendix - Display 1523

Seasonal Univariate Statistics

for Surface Ammonia as N Total in San Carlos Bay

NH3_mgl
(mg/l)



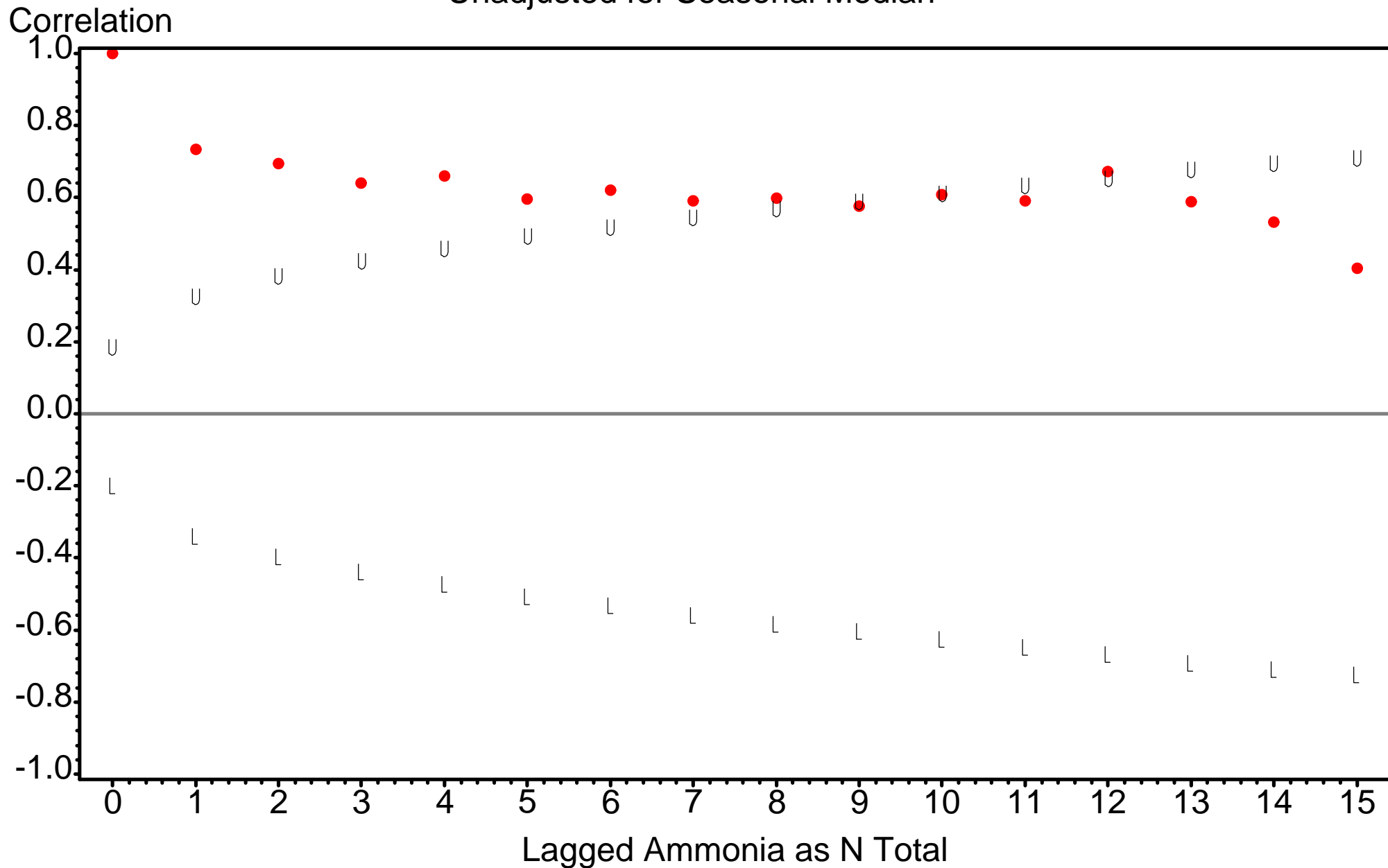
San Carlos Bay Trends Appendix - Display 1524
Autocorrelation Statistics for Surface Ammonia as N Total in San Carlos Bay

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.733	0.167	0.333	-0.333
2	0.695	0.194	0.389	-0.389
3	0.641	0.216	0.432	-0.432
4	0.661	0.233	0.466	-0.466
5	0.595	0.250	0.500	-0.500
6	0.620	0.263	0.525	-0.525
7	0.592	0.276	0.552	-0.552
8	0.599	0.287	0.575	-0.575
9	0.575	0.299	0.597	-0.597
10	0.607	0.309	0.617	-0.617
11	0.590	0.320	0.639	-0.639
12	0.672	0.330	0.659	-0.659
13	0.588	0.342	0.684	-0.684
14	0.532	0.351	0.702	-0.702
15	0.403	0.359	0.717	-0.717

San Carlos Bay Trends Appendix - Display 1525

Correlogram for Surface Ammonia as N Total in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1526
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.501	0	0	-0.01

San Carlos Bay Trends Appendix - Display 1527
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in San Carlos Bay
Adjusted for Seasonal Medians

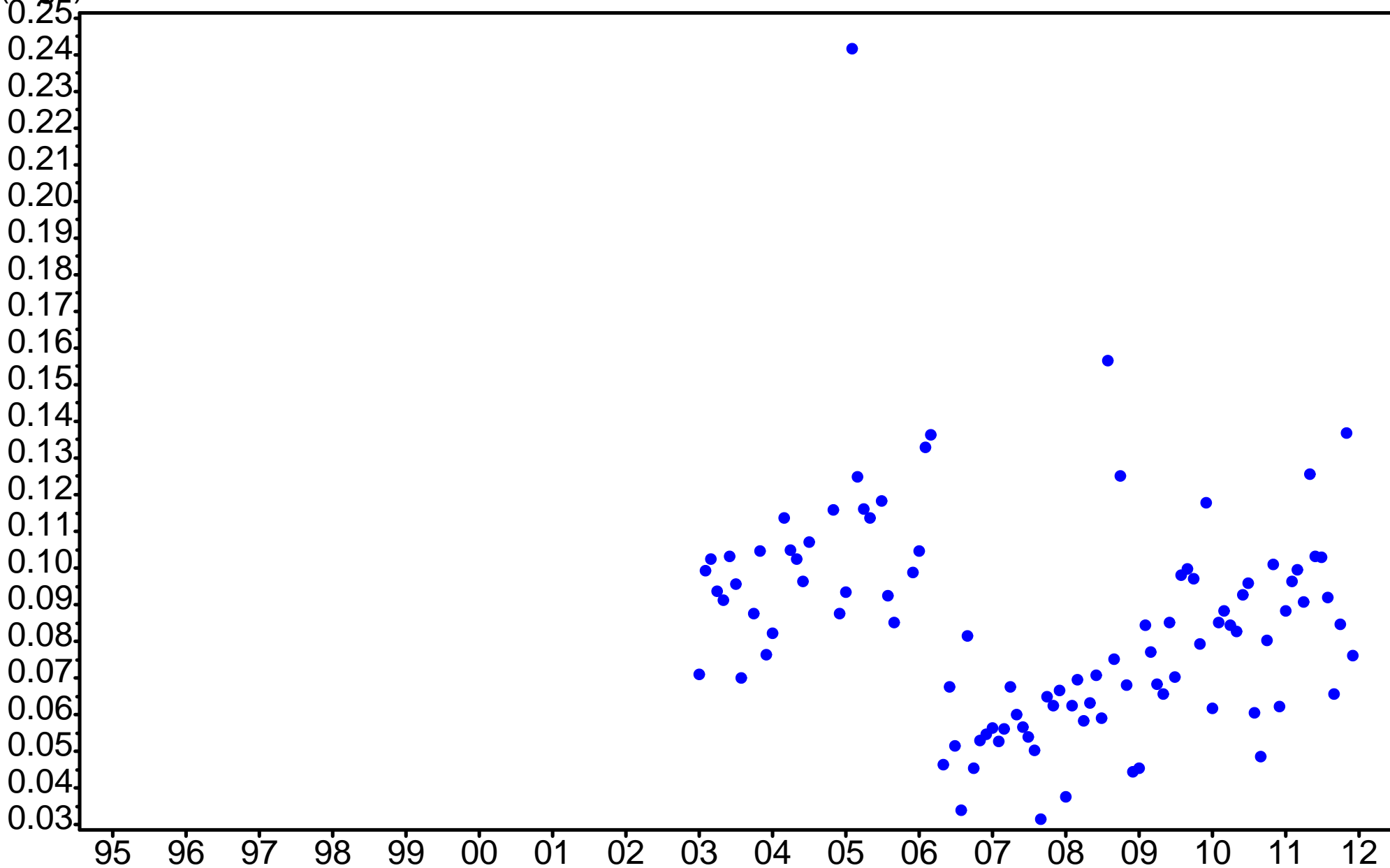
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.56077	0	.00532427	-0.011268

San Carlos Bay Trends Appendix - Display 1528

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted

(mg/l)



Zero Reference Line Shown

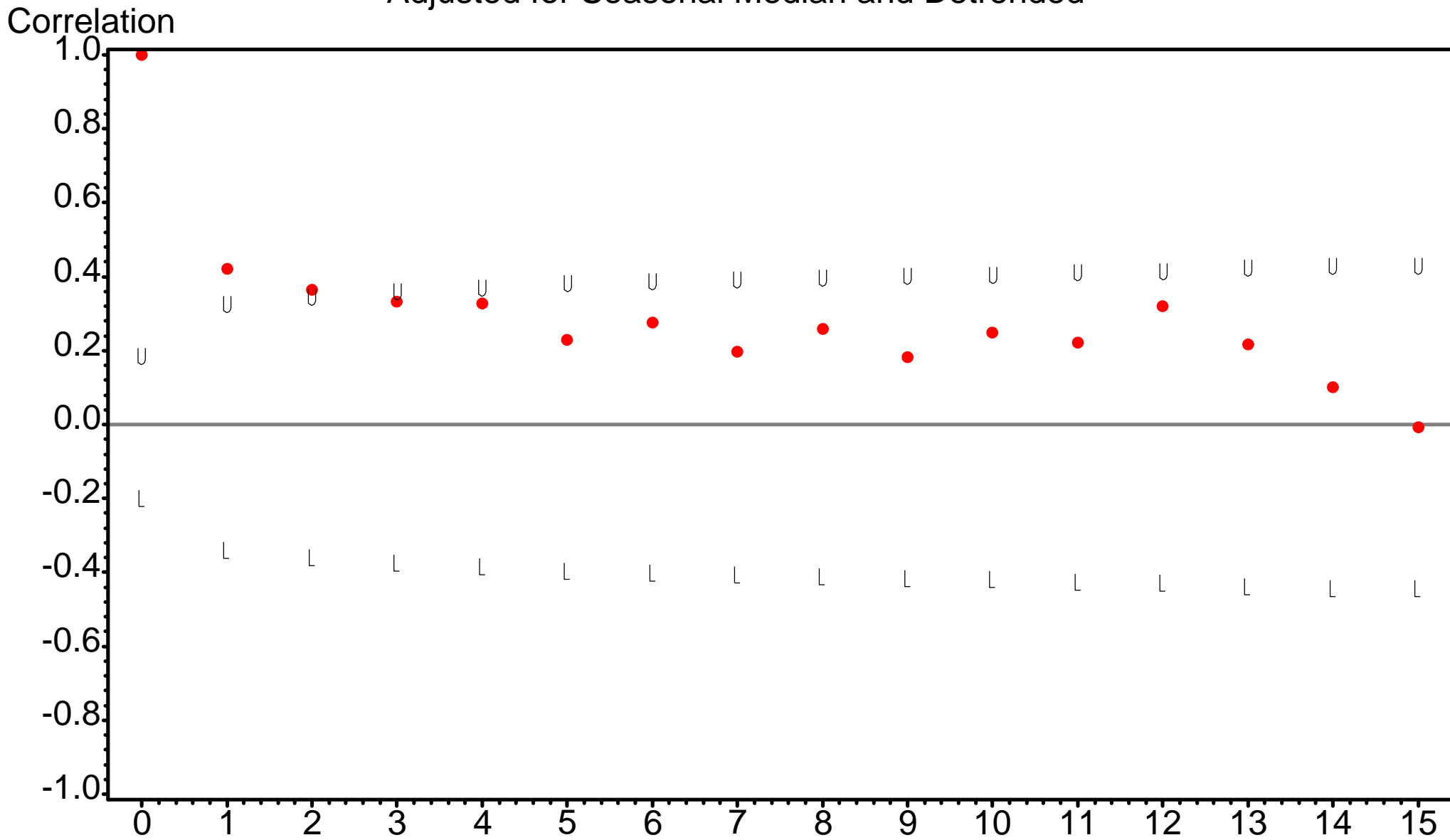
San Carlos Bay Trends Appendix - Display 1529
Autocorrelation Statistics for Surface Ammonia as N Total in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.421	0.167	0.333	-0.333
2	0.364	0.176	0.353	-0.353
3	0.332	0.183	0.366	-0.366
4	0.328	0.189	0.377	-0.377
5	0.229	0.194	0.388	-0.388
6	0.275	0.196	0.393	-0.393
7	0.197	0.200	0.400	-0.400
8	0.258	0.202	0.403	-0.403
9	0.183	0.205	0.409	-0.409
10	0.248	0.206	0.412	-0.412
11	0.222	0.209	0.418	-0.418
12	0.319	0.211	0.422	-0.422
13	0.217	0.215	0.431	-0.431
14	0.101	0.217	0.435	-0.435
15	-0.008	0.218	0.436	-0.436

San Carlos Bay Trends Appendix - Display 1530

Correlogram for Surface Ammonia as N Total in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

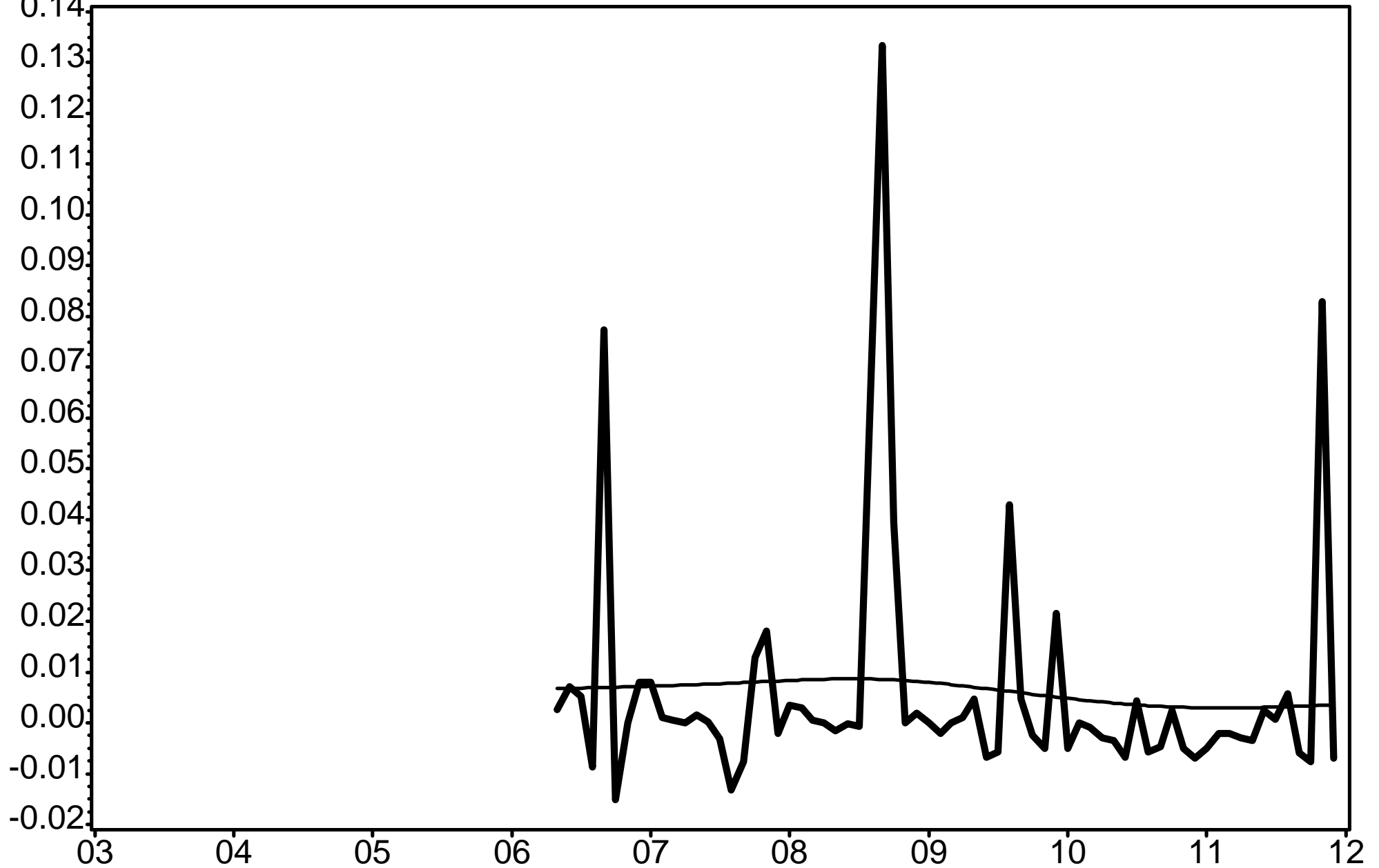
San Carlos Bay Trends Appendix - Display 1532

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

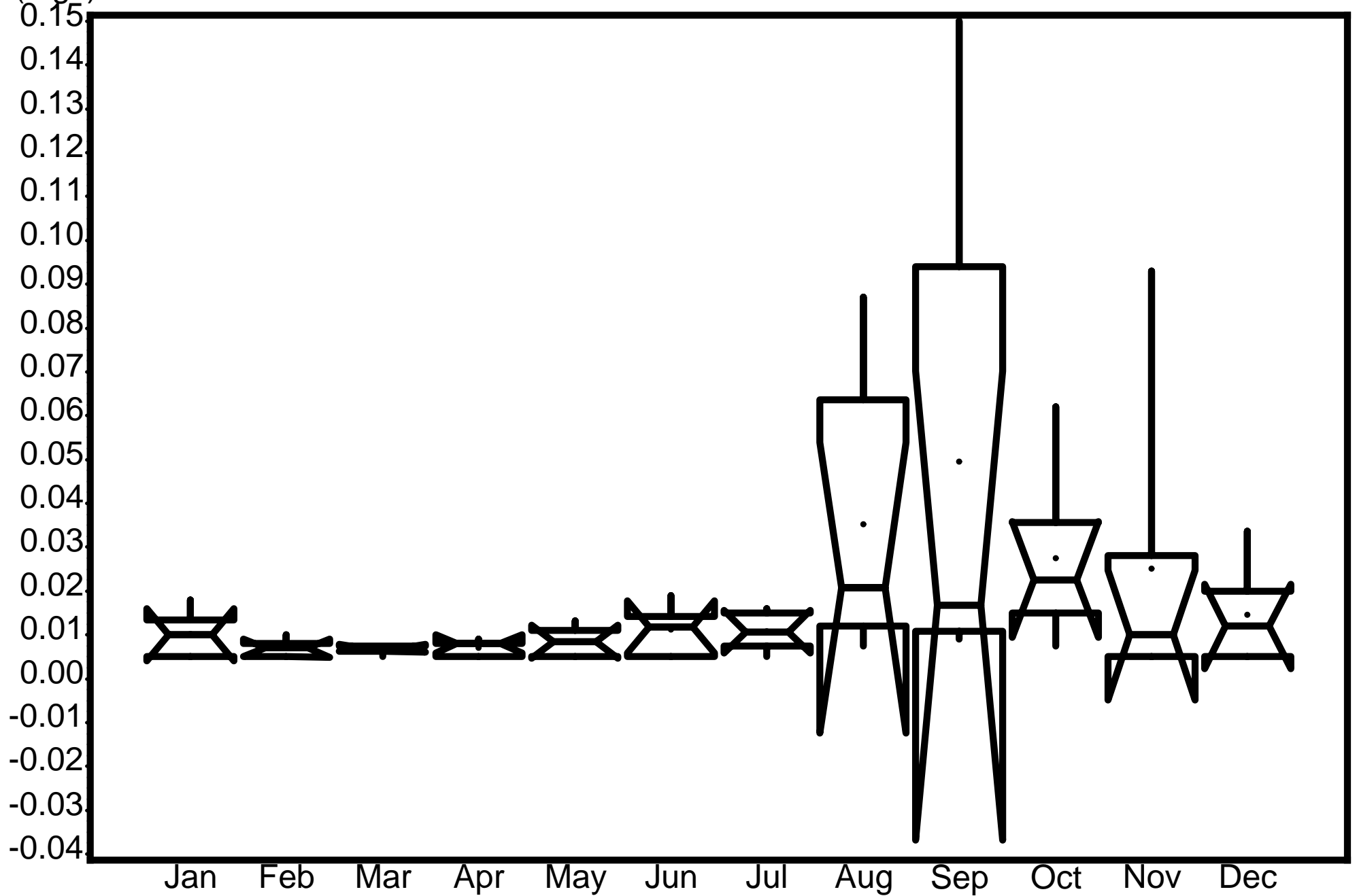


San Carlos Bay Trends Appendix - Display 1533

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

NO23_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1534

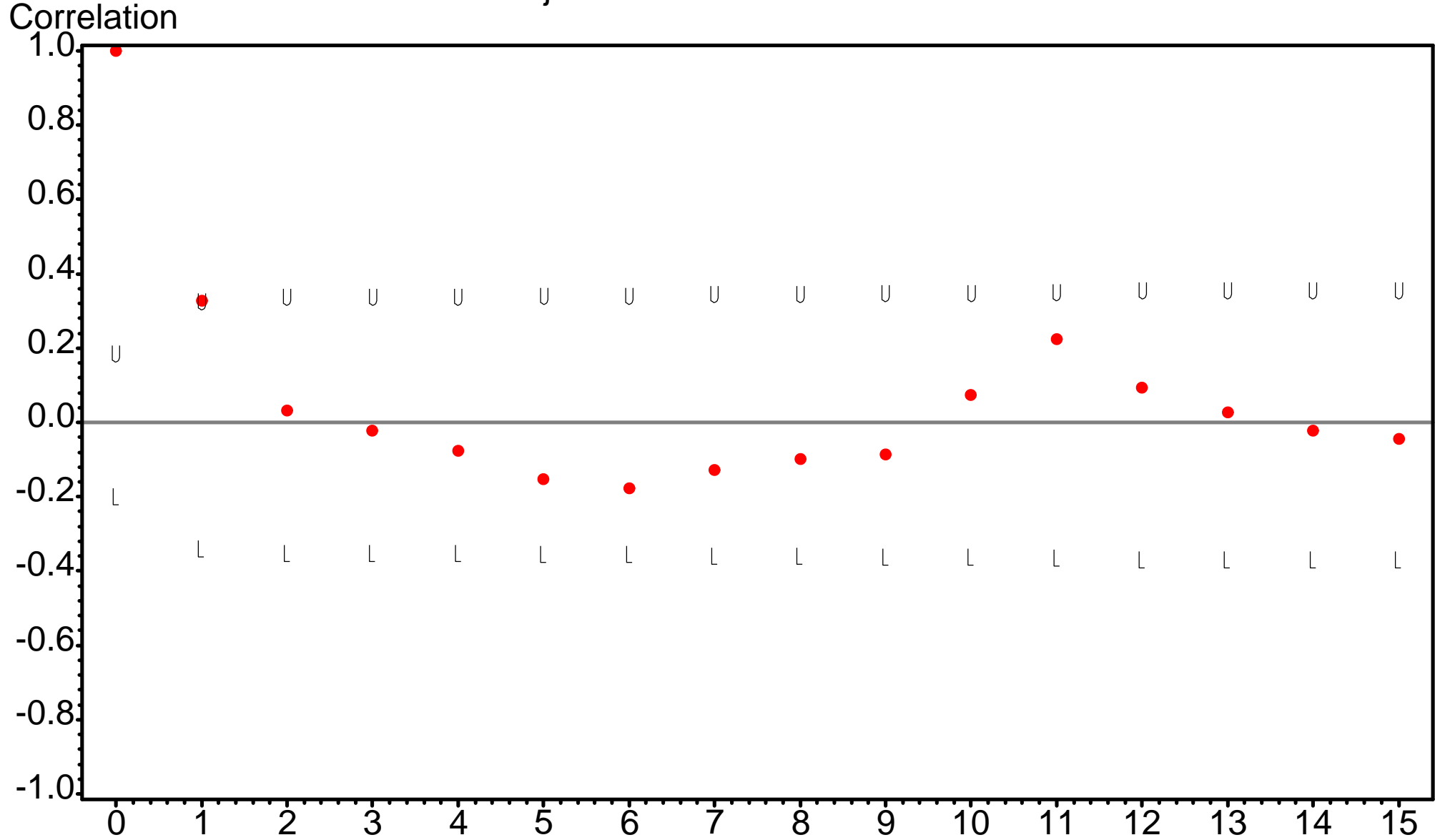
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.327	0.167	0.333	-0.333
2	0.031	0.172	0.345	-0.345
3	-0.021	0.173	0.345	-0.345
4	-0.077	0.173	0.345	-0.345
5	-0.152	0.173	0.346	-0.346
6	-0.177	0.174	0.348	-0.348
7	-0.127	0.176	0.352	-0.352
8	-0.099	0.177	0.353	-0.353
9	-0.086	0.177	0.354	-0.354
10	0.074	0.178	0.355	-0.355
11	0.223	0.178	0.356	-0.356
12	0.093	0.180	0.361	-0.361
13	0.027	0.181	0.362	-0.362
14	-0.023	0.181	0.362	-0.362
15	-0.045	0.181	0.362	-0.362

San Carlos Bay Trends Appendix - Display 1535

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1536
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Unadjusted for Seasonal Medians

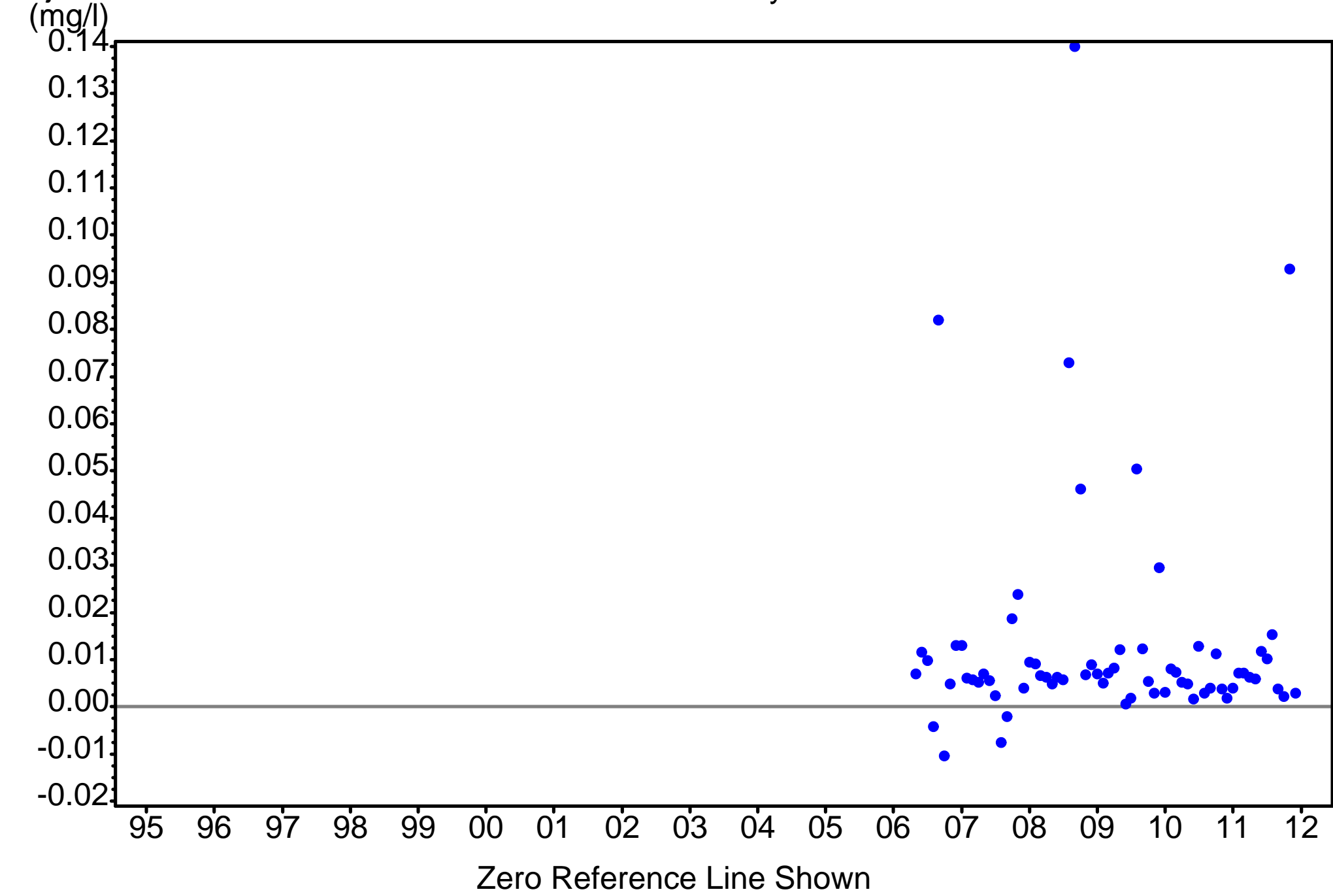
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.17	0.039	0.039	-.001

San Carlos Bay Trends Appendix - Display 1537
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.30625	.00410114	0.045563	-.001

San Carlos Bay Trends Appendix - Display 1538

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
San Carlos Bay

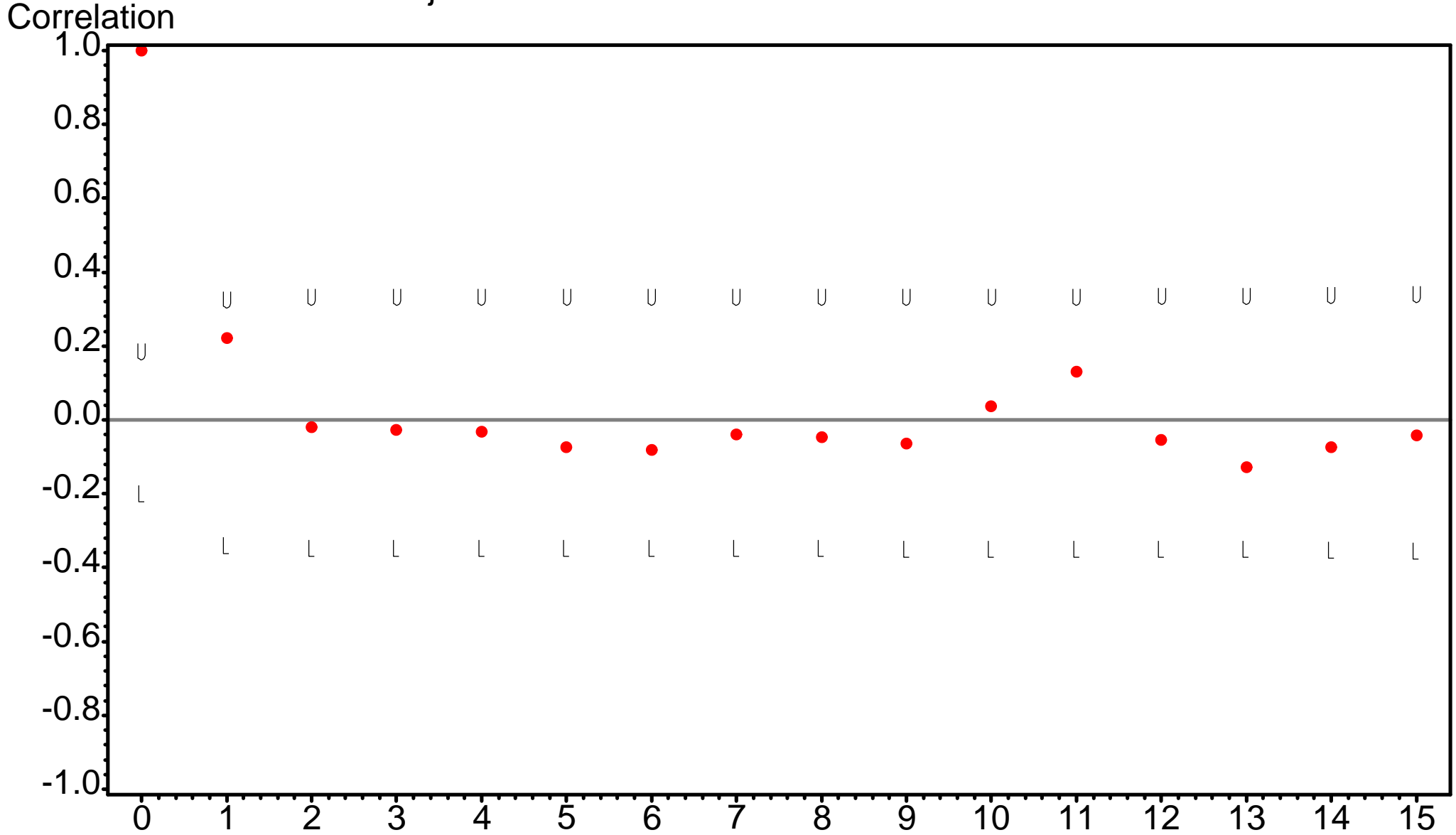


San Carlos Bay Trends Appendix - Display 1539
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.221	0.167	0.333	-0.333
2	-0.019	0.169	0.339	-0.339
3	-0.026	0.169	0.339	-0.339
4	-0.031	0.169	0.339	-0.339
5	-0.073	0.169	0.339	-0.339
6	-0.081	0.170	0.340	-0.340
7	-0.040	0.170	0.340	-0.340
8	-0.047	0.170	0.340	-0.340
9	-0.065	0.170	0.341	-0.341
10	0.038	0.171	0.341	-0.341
11	0.130	0.171	0.341	-0.341
12	-0.054	0.172	0.343	-0.343
13	-0.127	0.172	0.343	-0.343
14	-0.074	0.173	0.345	-0.345
15	-0.042	0.173	0.346	-0.346

San Carlos Bay Trends Appendix - Display 1540

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay Adjusted for Seasonal Median and Detrended



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

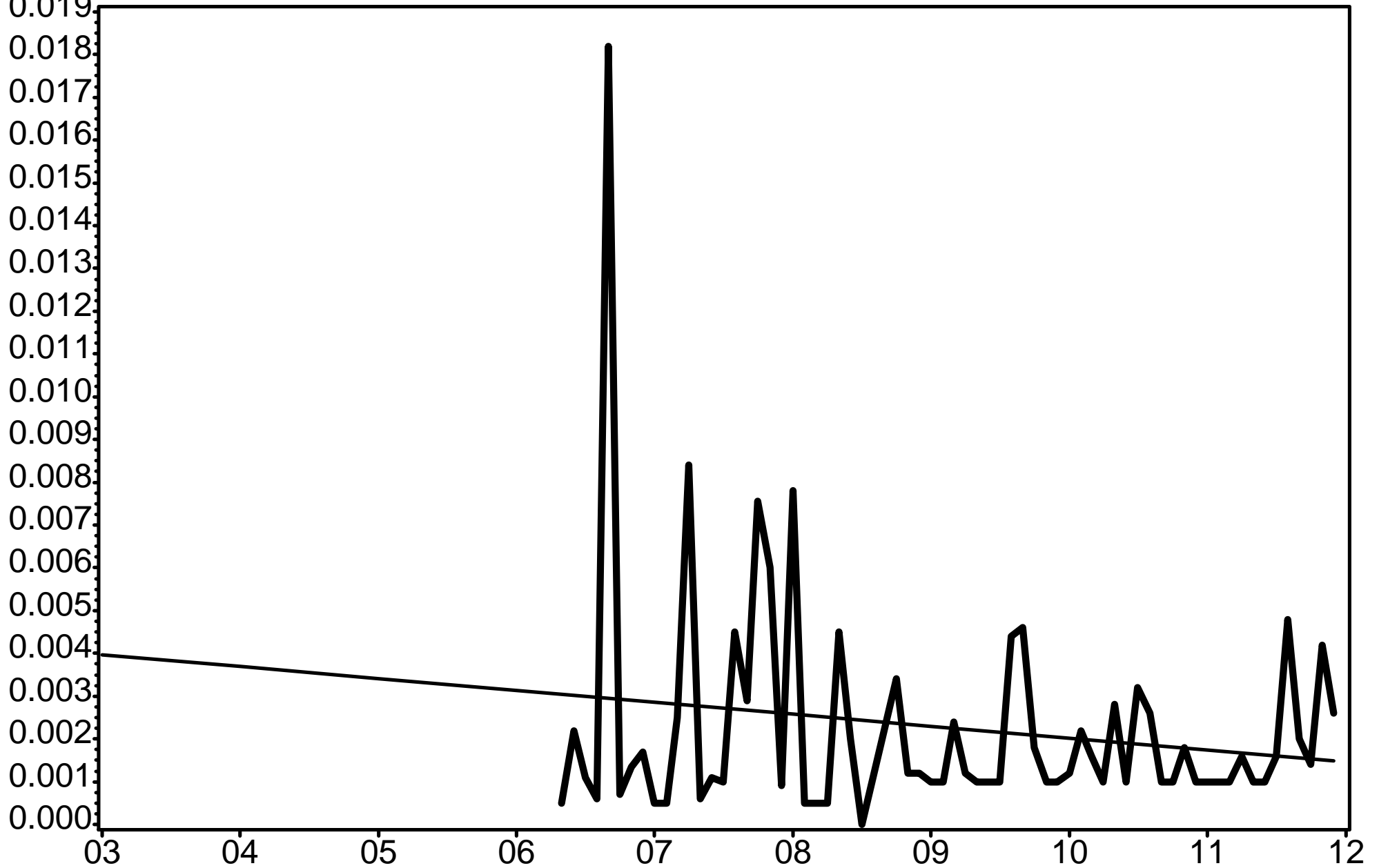
San Carlos Bay Trends Appendix - Display 1541

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in San Carlos Bay

Not Adjusted for Seasonal Medians

NO2_mgl
(mg/l)



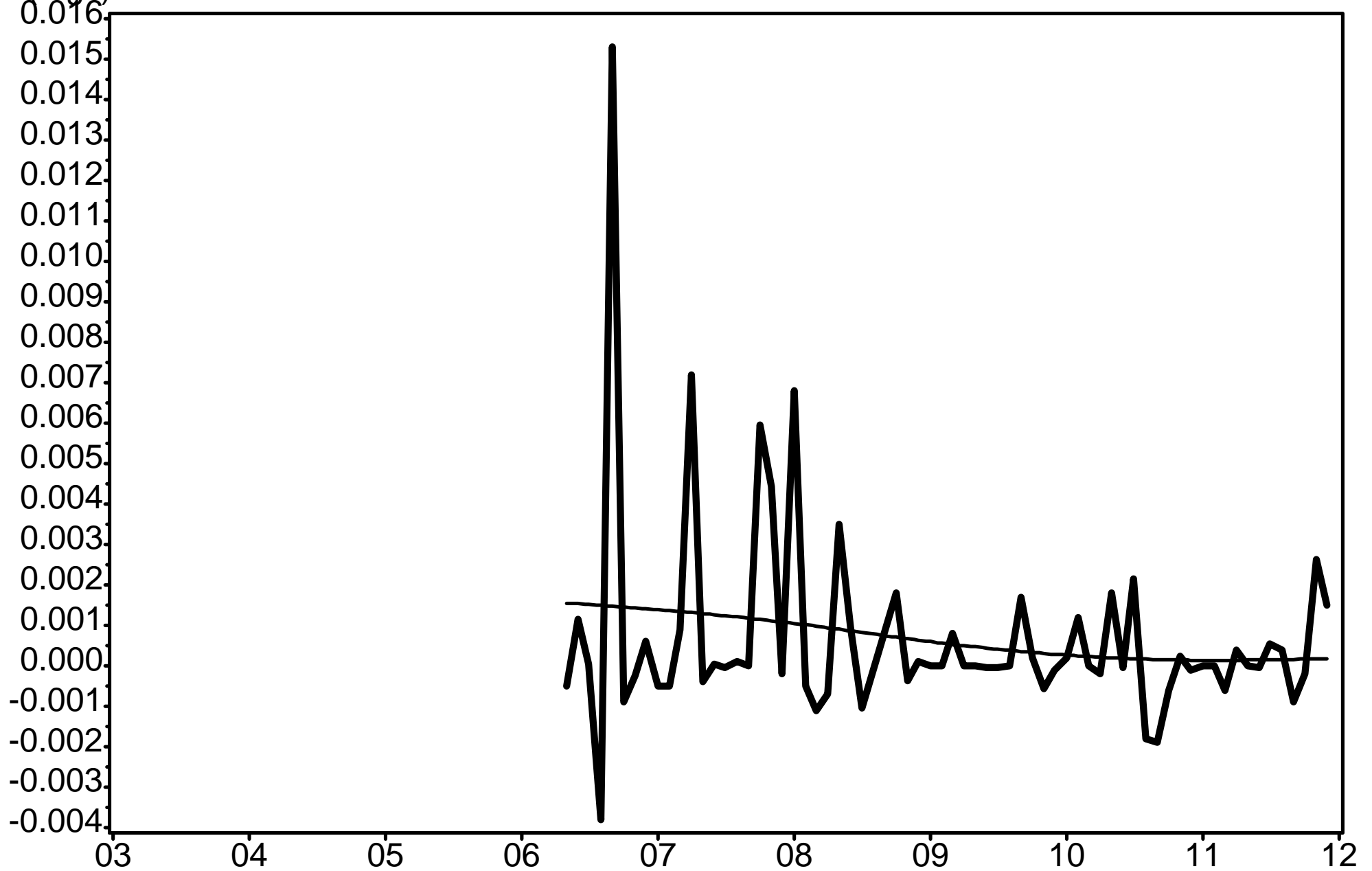
San Carlos Bay Trends Appendix - Display 1542

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
NO2_mgl
(mg/l)

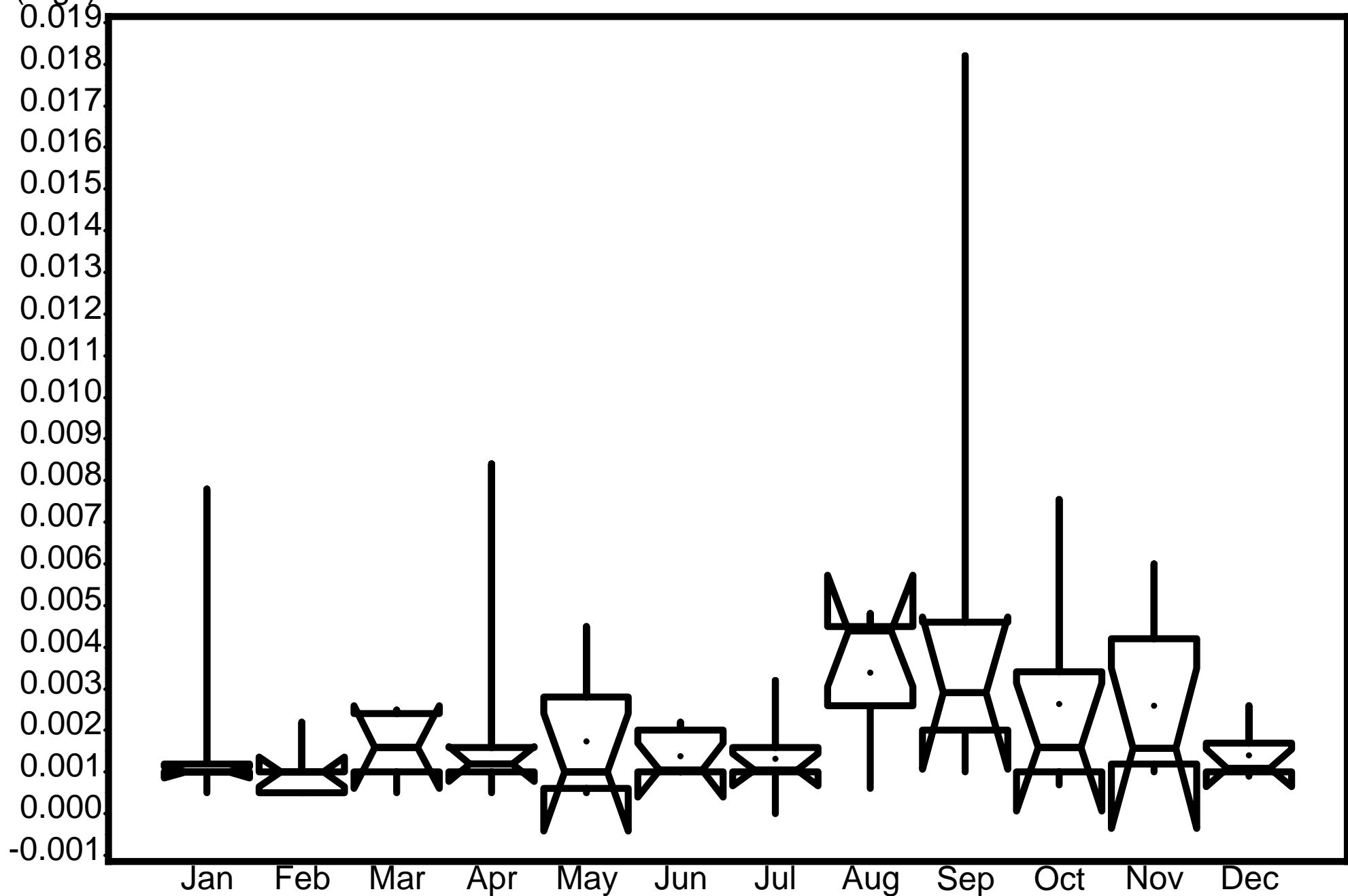


San Carlos Bay Trends Appendix - Display 1543

Seasonal Univariate Statistics

for Surface Nitrite (TOTAL AS N) in San Carlos Bay

NO2_mgl
(mg/l)



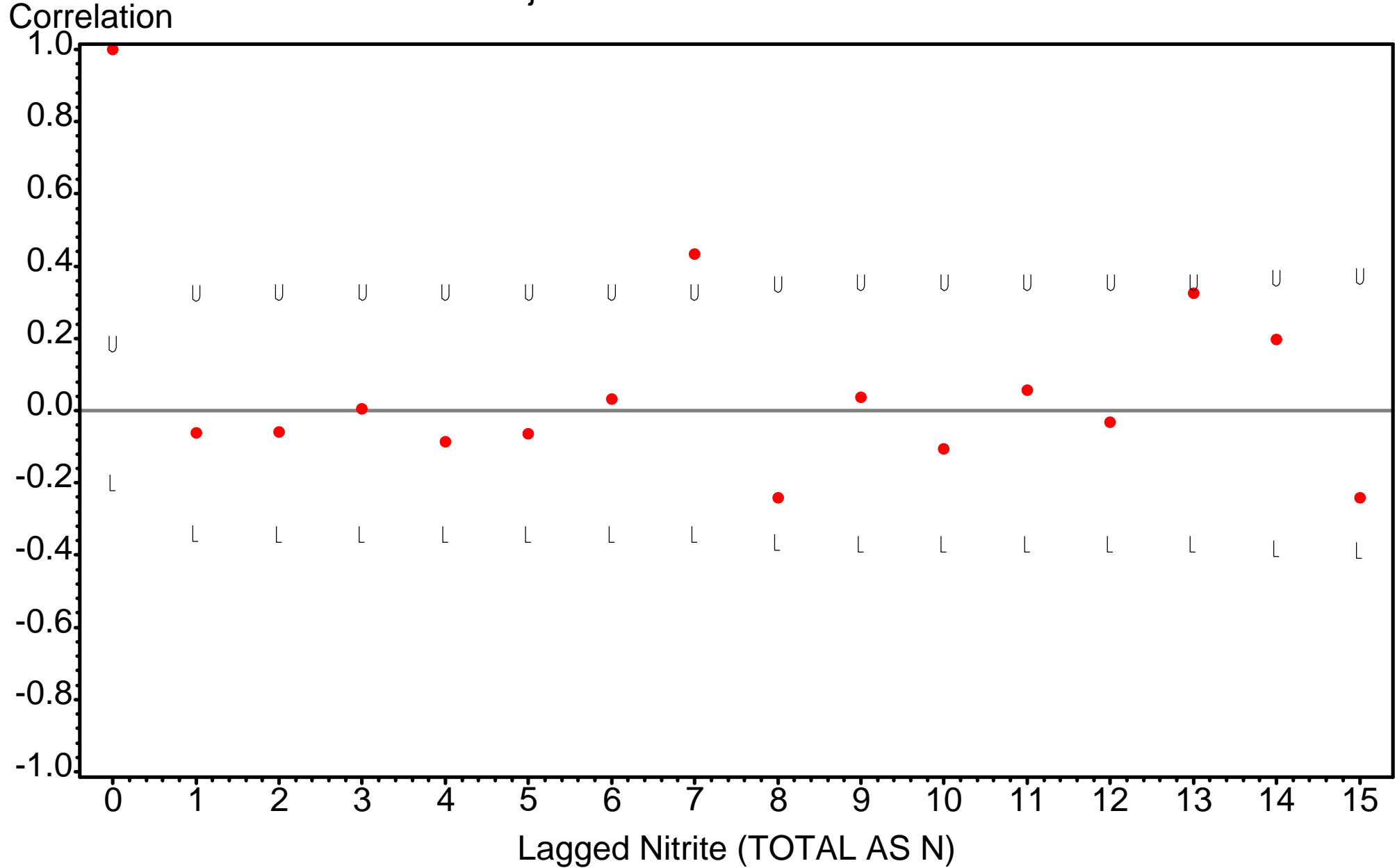
San Carlos Bay Trends Appendix - Display 1544
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in San Carlos Bay

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.062	0.167	0.333	-0.333
2	-0.060	0.167	0.334	-0.334
3	0.006	0.167	0.334	-0.334
4	-0.085	0.167	0.334	-0.334
5	-0.064	0.167	0.335	-0.335
6	0.033	0.168	0.335	-0.335
7	0.433	0.168	0.336	-0.336
8	-0.241	0.178	0.356	-0.356
9	0.037	0.181	0.362	-0.362
10	-0.107	0.181	0.362	-0.362
11	0.057	0.181	0.363	-0.363
12	-0.031	0.182	0.363	-0.363
13	0.326	0.182	0.363	-0.363
14	0.198	0.187	0.374	-0.374
15	-0.241	0.189	0.378	-0.378

San Carlos Bay Trends Appendix - Display 1545

Correlogram for Surface Nitrite (TOTAL AS N) in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1546
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.008	0.922	0.922	0

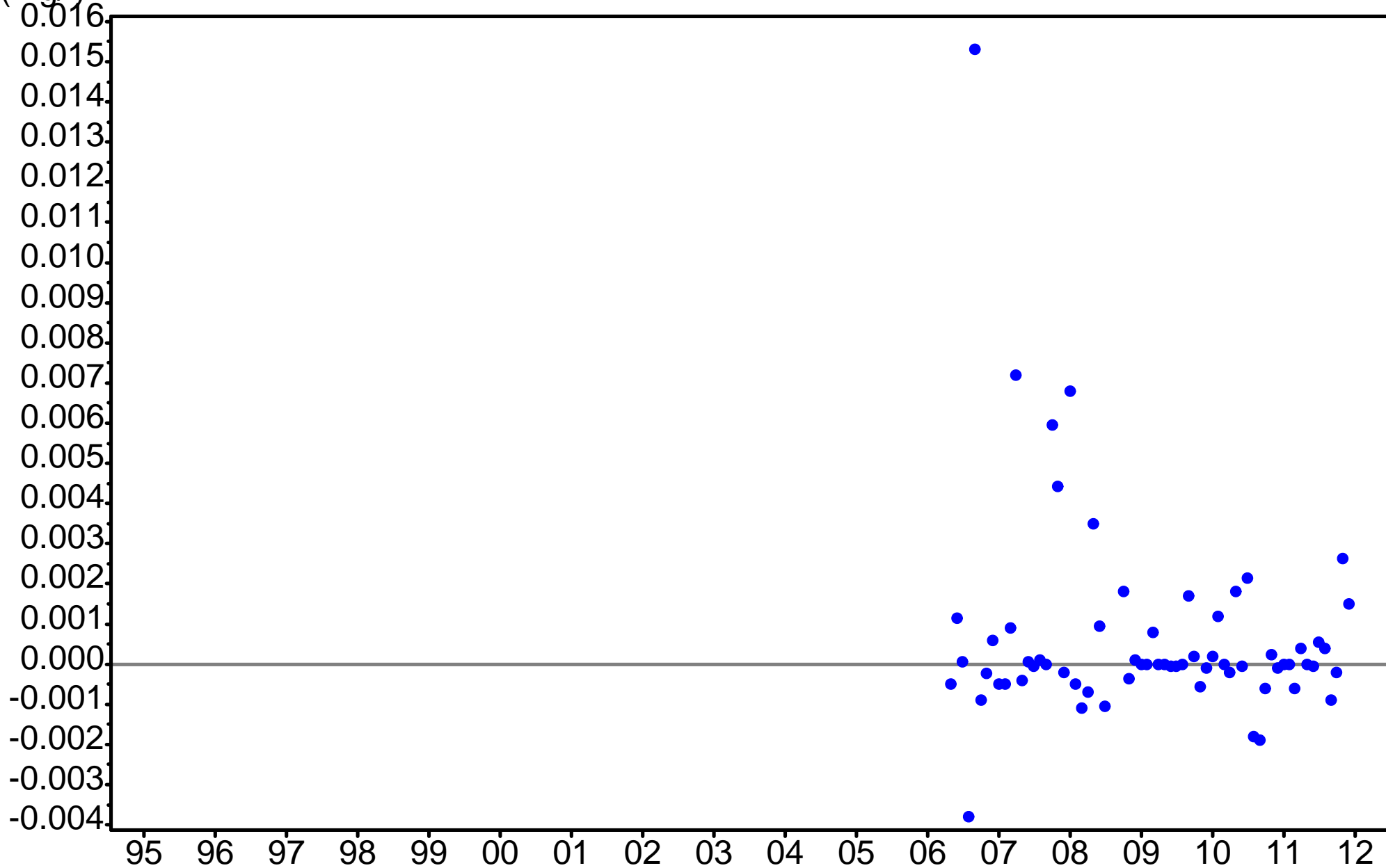
San Carlos Bay Trends Appendix - Display 1547
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.00666667	1	1	0

San Carlos Bay Trends Appendix - Display 1548

Time Series Plot of Surface Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

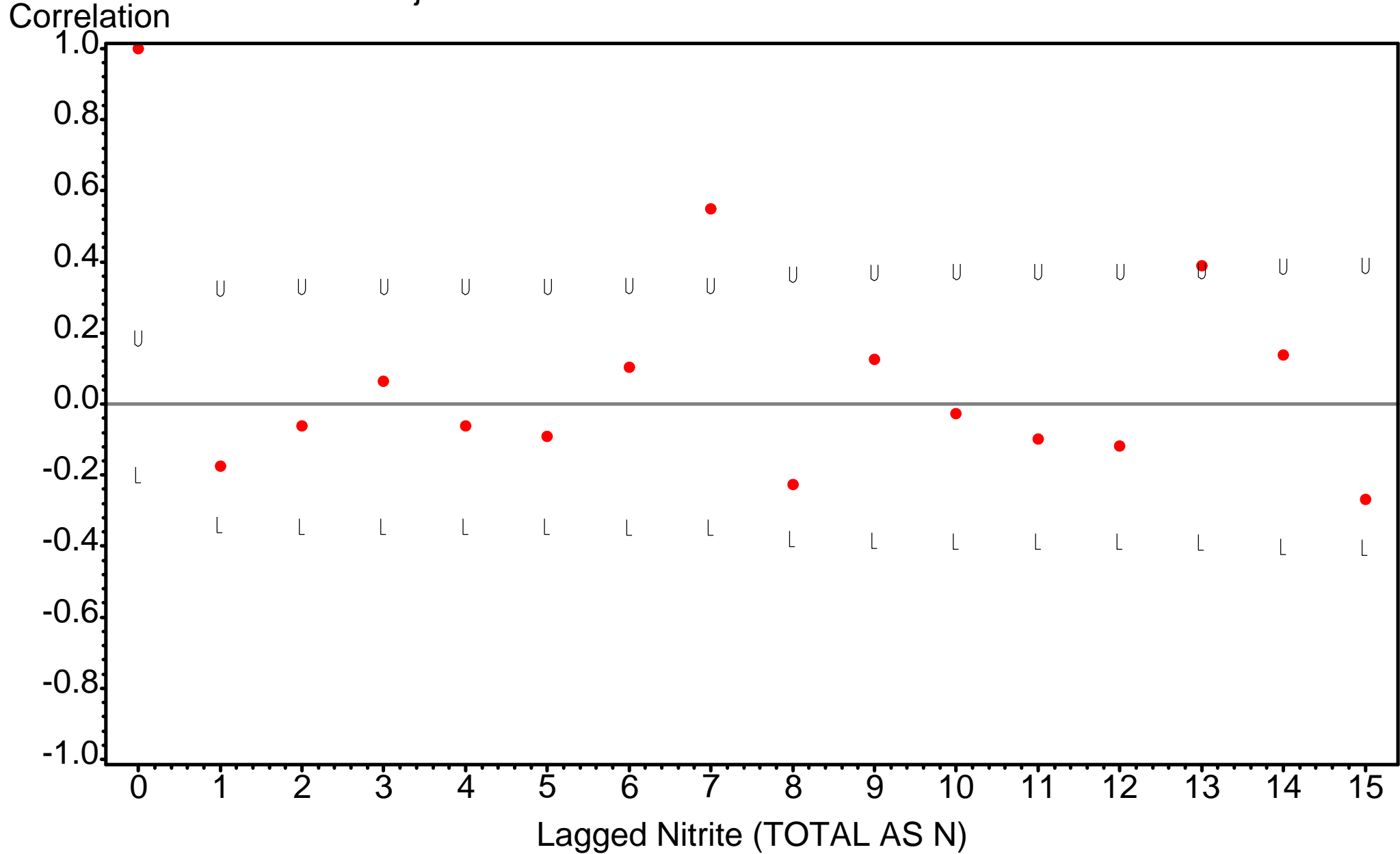
San Carlos Bay Trends Appendix - Display 1549
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.176	0.167	0.333	-0.333
2	-0.062	0.168	0.337	-0.337
3	0.064	0.169	0.337	-0.337
4	-0.062	0.169	0.338	-0.338
5	-0.090	0.169	0.338	-0.338
6	0.104	0.169	0.339	-0.339
7	0.550	0.170	0.340	-0.340
8	-0.226	0.186	0.372	-0.372
9	0.126	0.188	0.377	-0.377
10	-0.027	0.189	0.378	-0.378
11	-0.098	0.189	0.378	-0.378
12	-0.118	0.190	0.379	-0.379
13	0.389	0.190	0.381	-0.381
14	0.139	0.197	0.395	-0.395
15	-0.268	0.198	0.397	-0.397

San Carlos Bay Trends Appendix - Display 1550

Correlogram for Surface Nitrite (TOTAL AS N) in San Carlos Bay

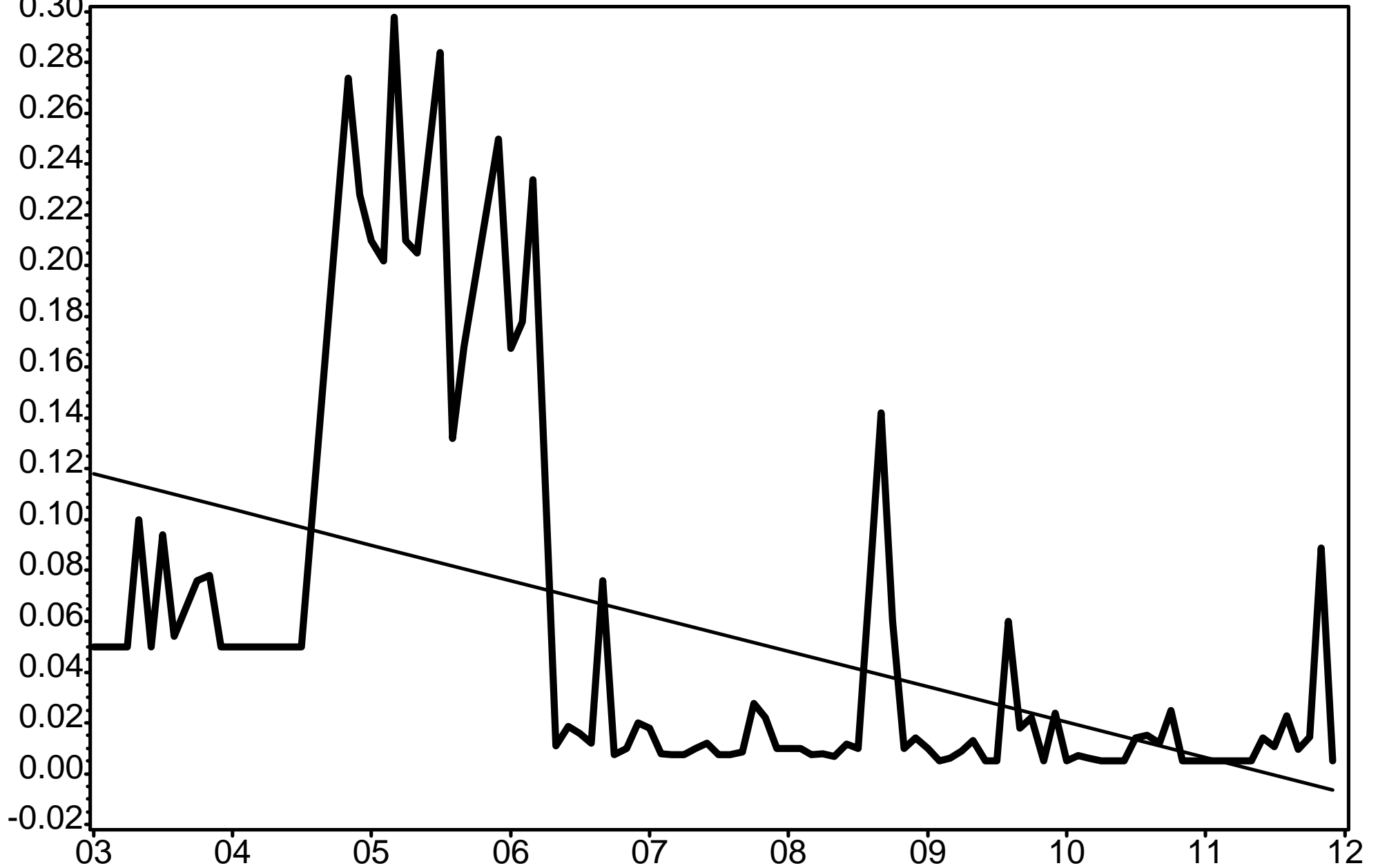
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1551
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)



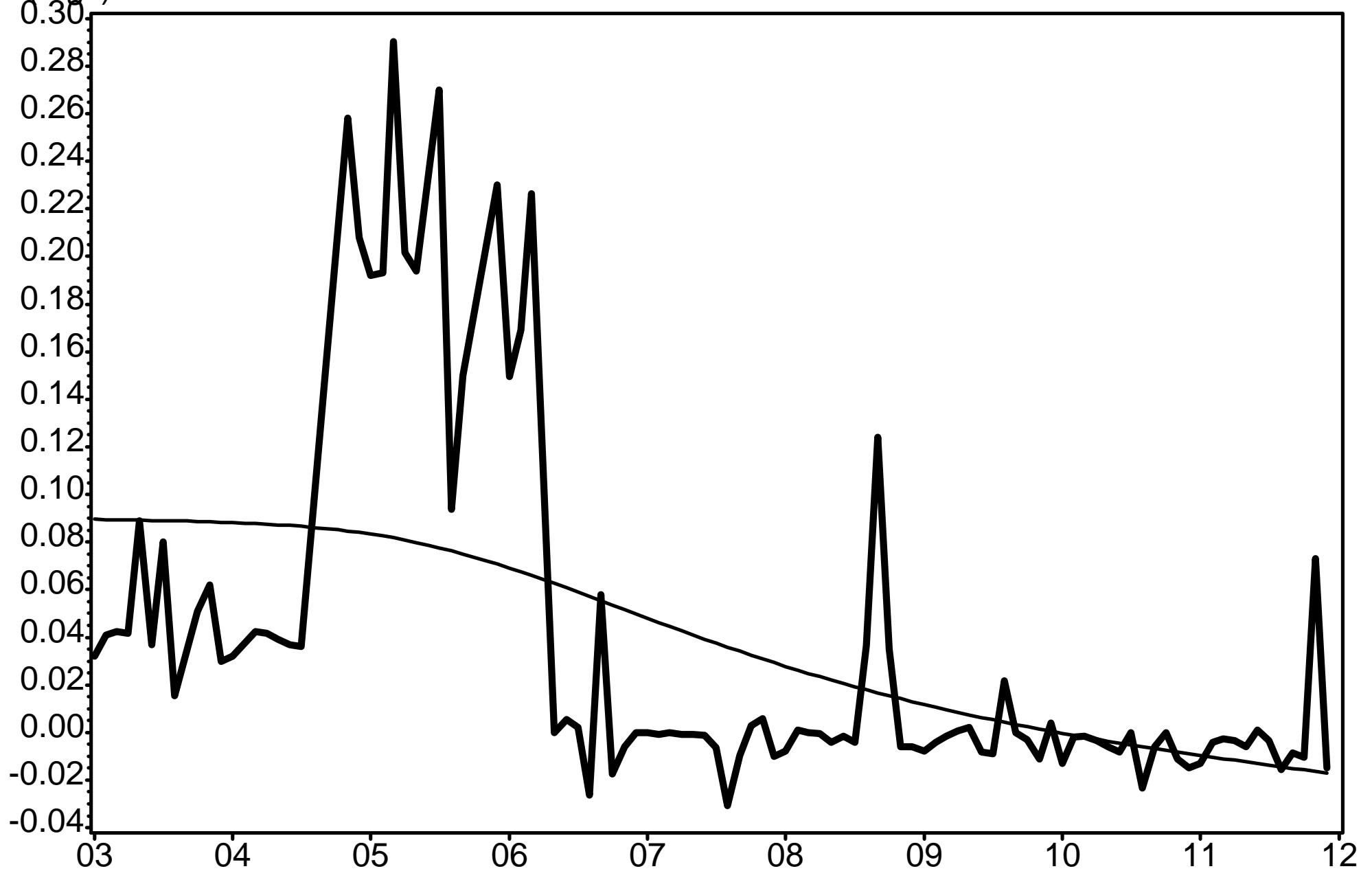
San Carlos Bay Trends Appendix - Display 1552

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
NO3_mgl
(mg/l)

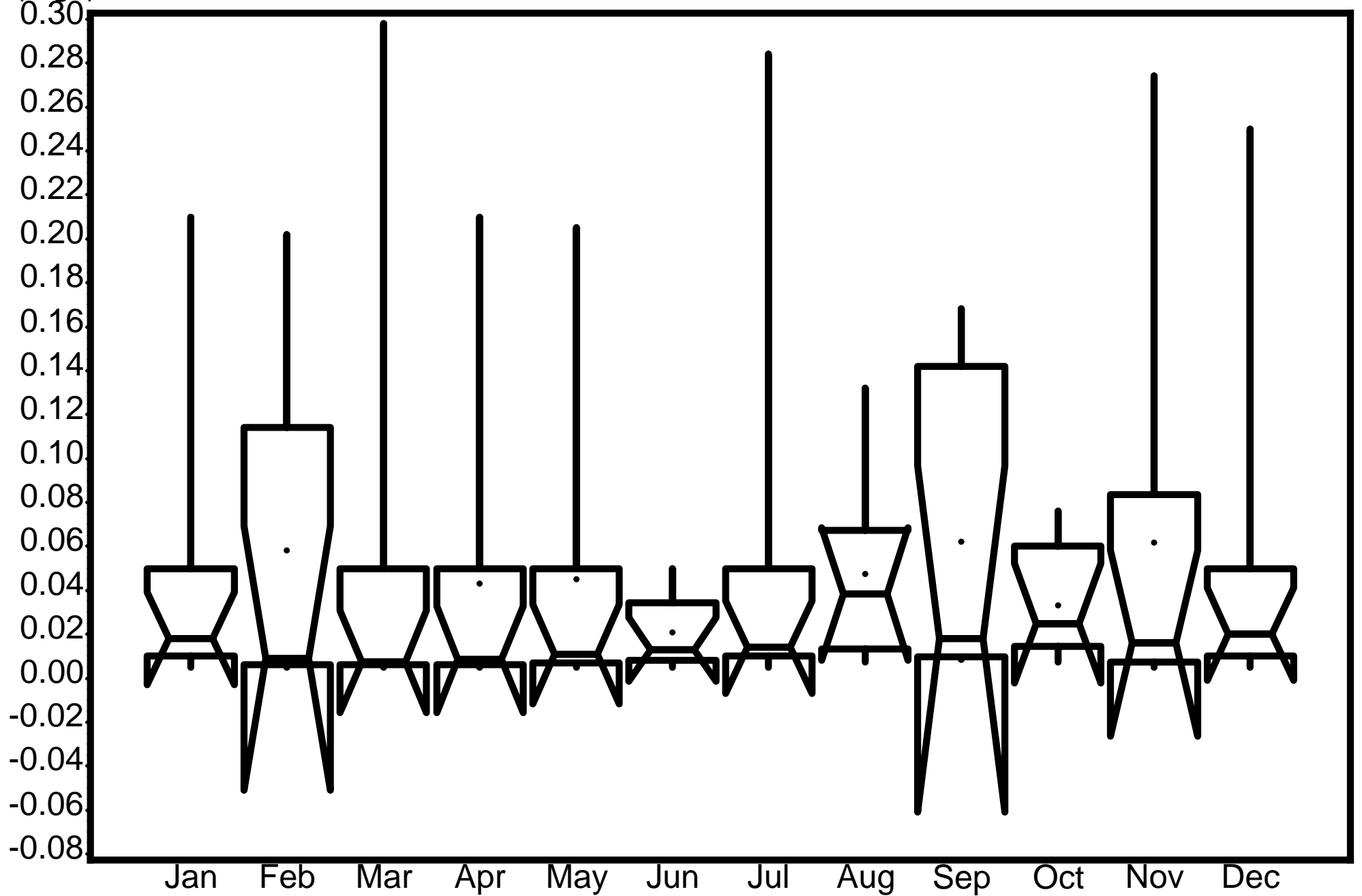


San Carlos Bay Trends Appendix - Display 1553

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

NO3_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1554

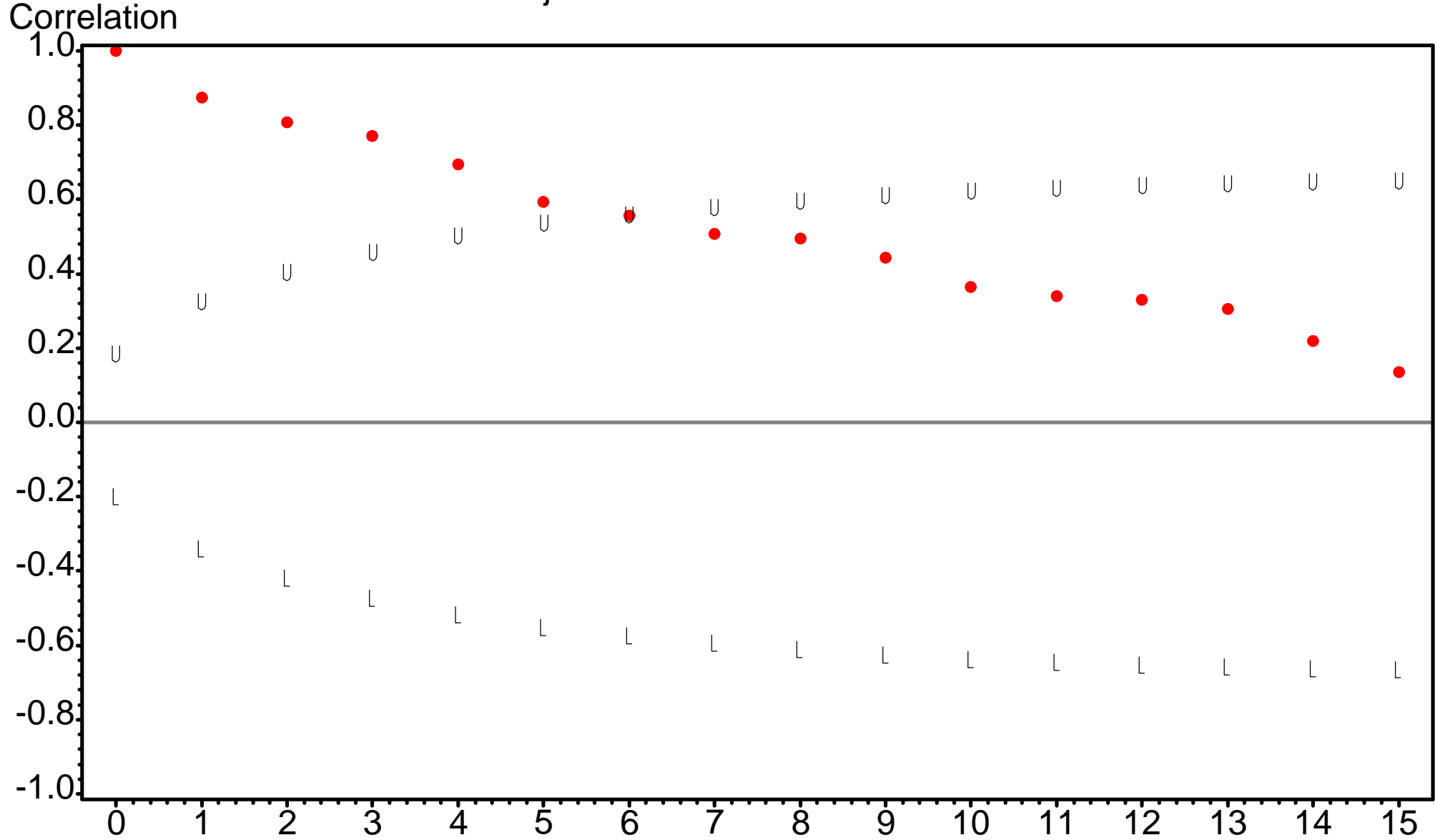
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.874	0.167	0.333	-0.333
2	0.808	0.205	0.410	-0.410
3	0.770	0.232	0.465	-0.465
4	0.694	0.255	0.510	-0.510
5	0.594	0.272	0.544	-0.544
6	0.557	0.284	0.567	-0.567
7	0.507	0.294	0.587	-0.587
8	0.494	0.302	0.603	-0.603
9	0.444	0.309	0.618	-0.618
10	0.364	0.315	0.630	-0.630
11	0.341	0.319	0.637	-0.637
12	0.331	0.322	0.644	-0.644
13	0.306	0.325	0.650	-0.650
14	0.220	0.328	0.656	-0.656
15	0.136	0.329	0.658	-0.658

San Carlos Bay Trends Appendix - Display 1555

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1556
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.438	0	0	-.006

San Carlos Bay Trends Appendix - Display 1557
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Medians

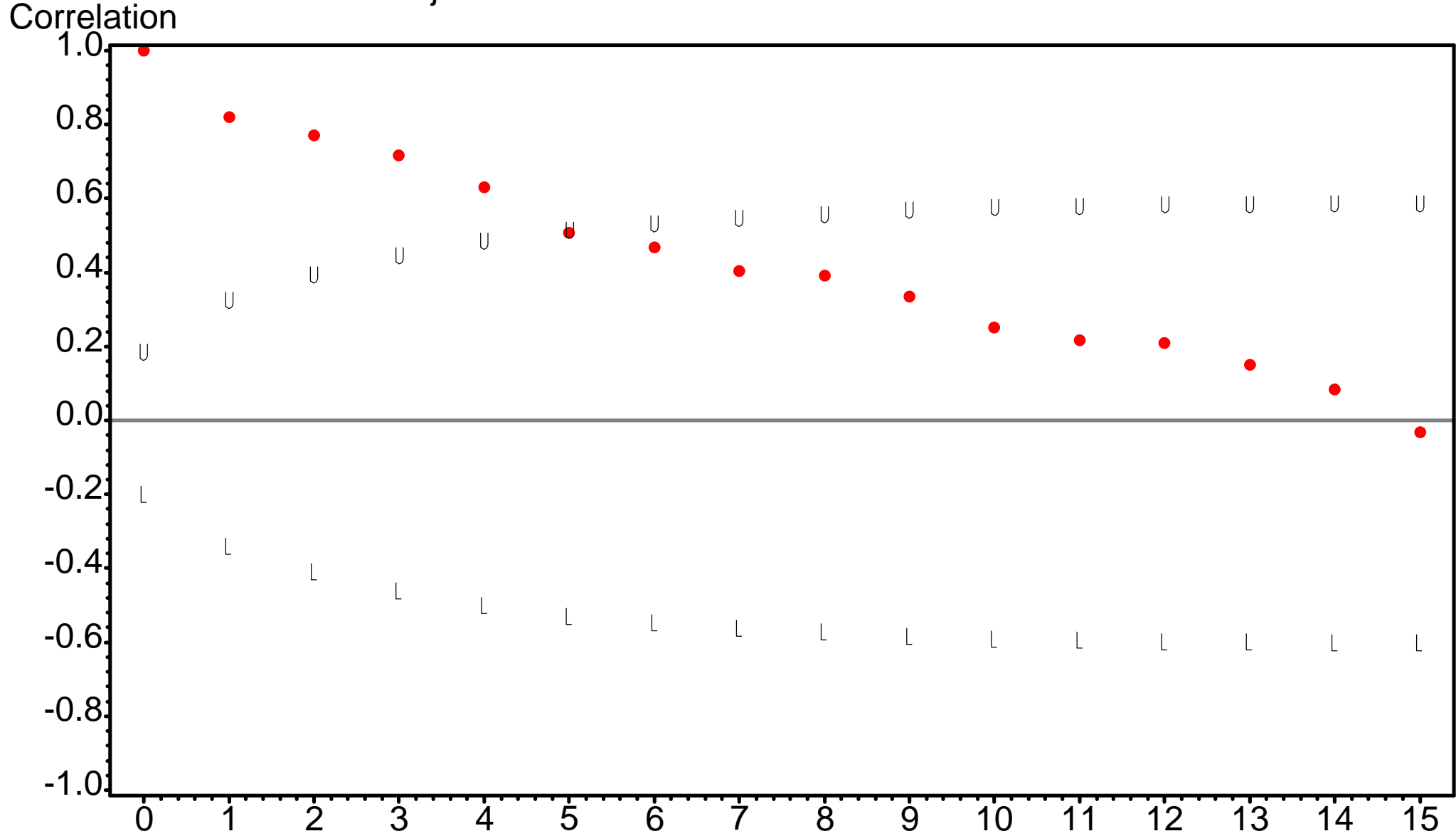
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.54972	0	.00709807	-.00642857

San Carlos Bay Trends Appendix - Display 1559
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.820	0.167	0.333	-0.333
2	0.771	0.201	0.401	-0.401
3	0.716	0.226	0.453	-0.453
4	0.631	0.246	0.493	-0.493
5	0.508	0.261	0.522	-0.522
6	0.468	0.270	0.540	-0.540
7	0.403	0.277	0.555	-0.555
8	0.391	0.283	0.565	-0.565
9	0.335	0.288	0.575	-0.575
10	0.252	0.291	0.583	-0.583
11	0.216	0.293	0.587	-0.587
12	0.210	0.295	0.590	-0.590
13	0.150	0.296	0.592	-0.592
14	0.084	0.297	0.594	-0.594
15	-0.033	0.297	0.594	-0.594

San Carlos Bay Trends Appendix - Display 1560

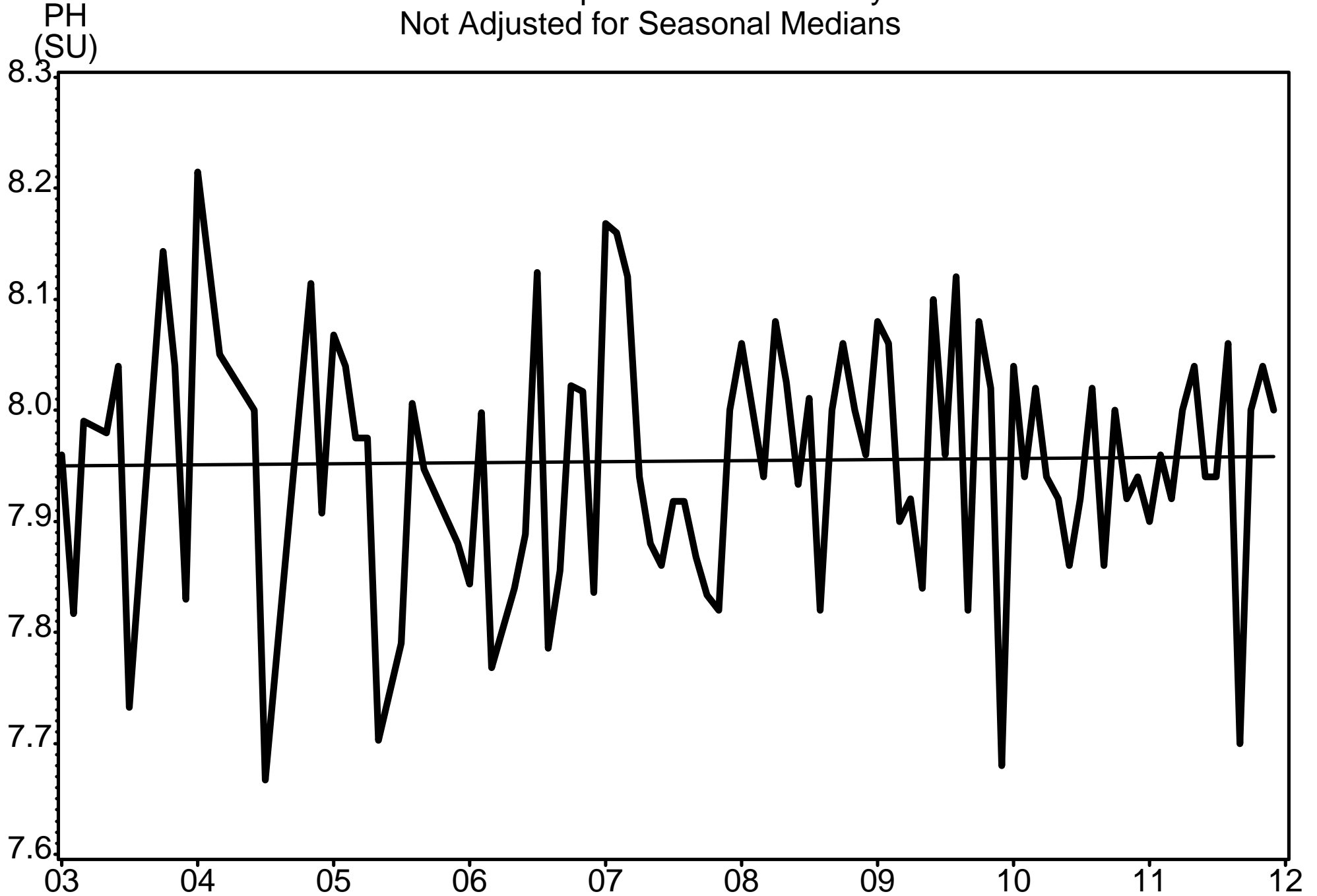
Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in San Carlos Bay Adjusted for Seasonal Median and Detrended



Lagged Nitrate+Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1561

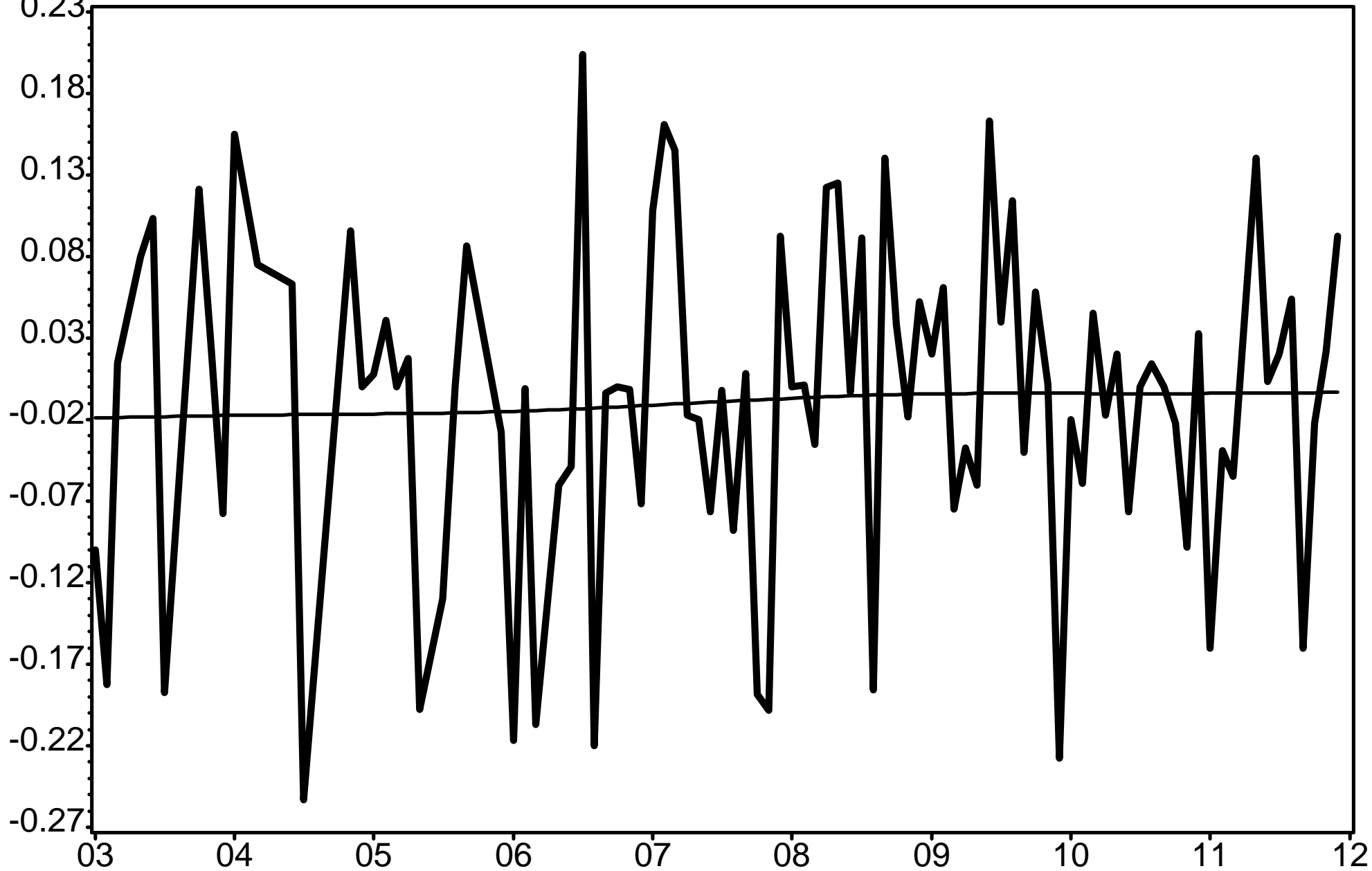
Monthly Data Time Series
for Surface pH in San Carlos Bay
Not Adjusted for Seasonal Medians



San Carlos Bay Trends Appendix - Display 1562

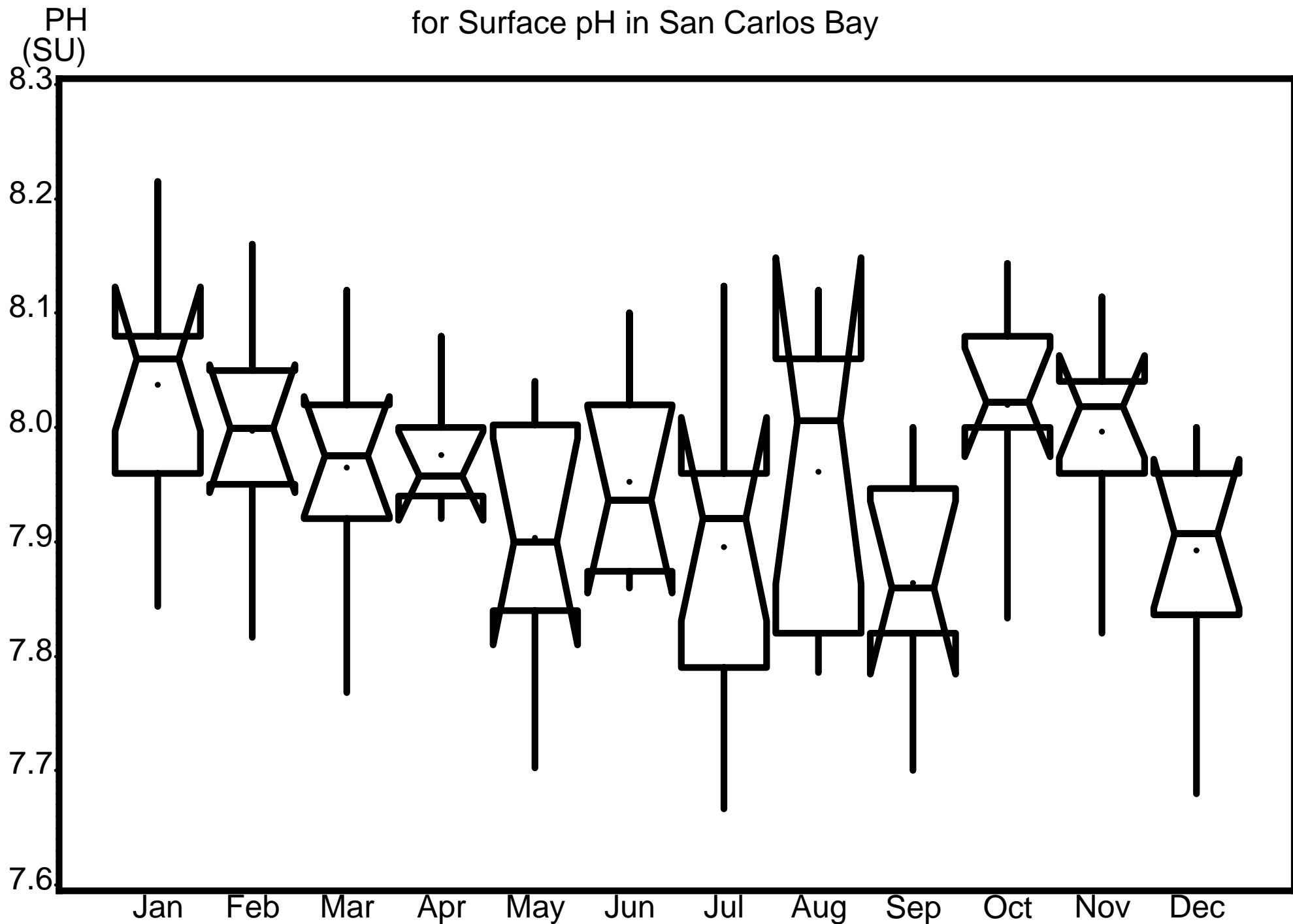
Monthly Data Time Series
for Surface pH in San Carlos Bay
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



San Carlos Bay Trends Appendix - Display 1563

Seasonal Univariate Statistics
for Surface pH in San Carlos Bay



San Carlos Bay Trends Appendix - Display 1564

Autocorrelation Statistics for Surface pH in San Carlos Bay

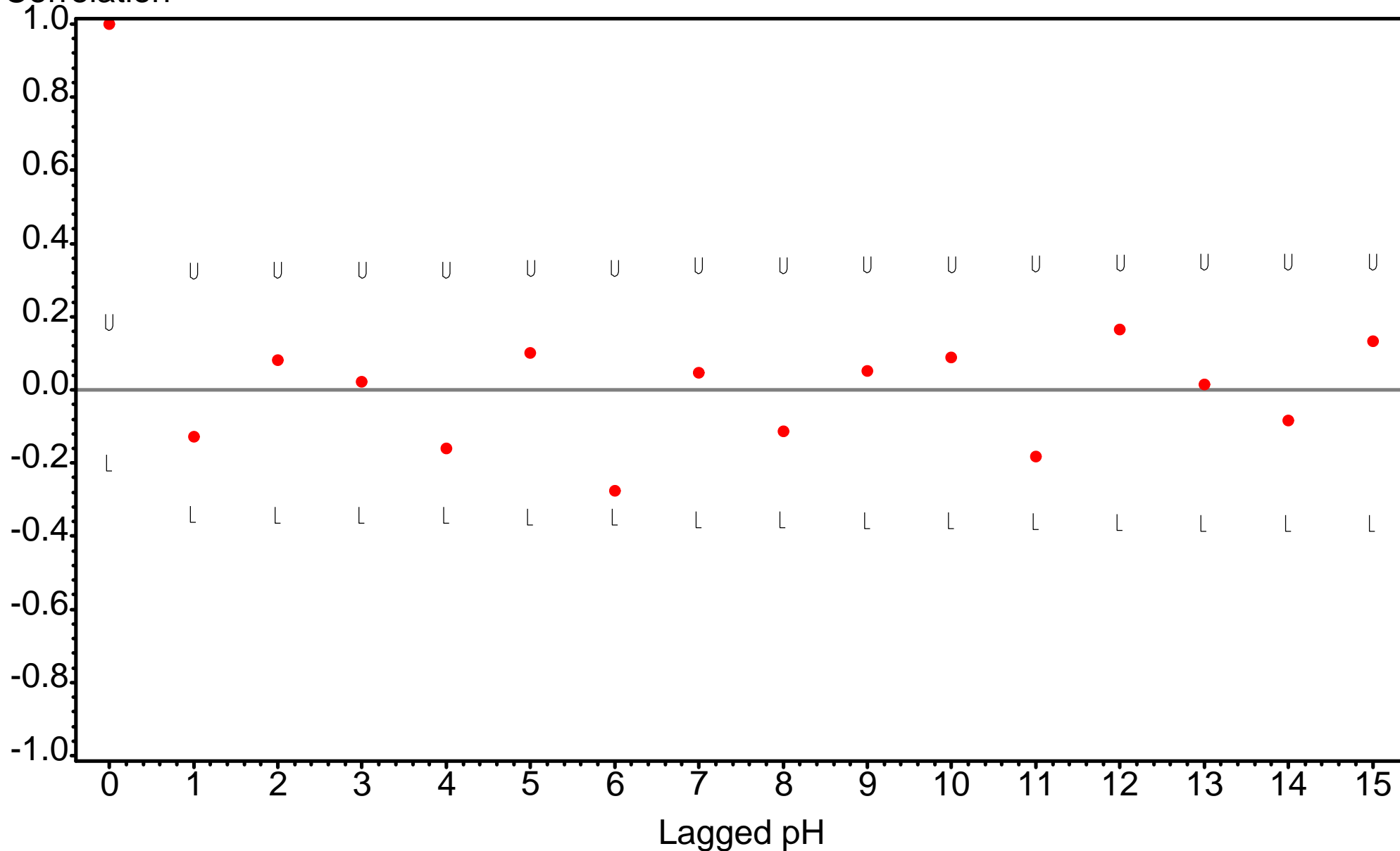
Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.128	0.167	0.333	-0.333
2	0.082	0.168	0.335	-0.335
3	0.021	0.168	0.336	-0.336
4	-0.160	0.168	0.336	-0.336
5	0.100	0.169	0.339	-0.339
6	-0.276	0.170	0.340	-0.340
7	0.046	0.174	0.348	-0.348
8	-0.112	0.174	0.348	-0.348
9	0.051	0.175	0.350	-0.350
10	0.089	0.175	0.350	-0.350
11	-0.182	0.175	0.351	-0.351
12	0.164	0.177	0.354	-0.354
13	0.016	0.179	0.357	-0.357
14	-0.084	0.179	0.357	-0.357
15	0.133	0.179	0.358	-0.358

San Carlos Bay Trends Appendix - Display 1565

Correlogram for Surface pH in San Carlos Bay

Unadjusted for Seasonal Median

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1566
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.023	0.743	0.743	0

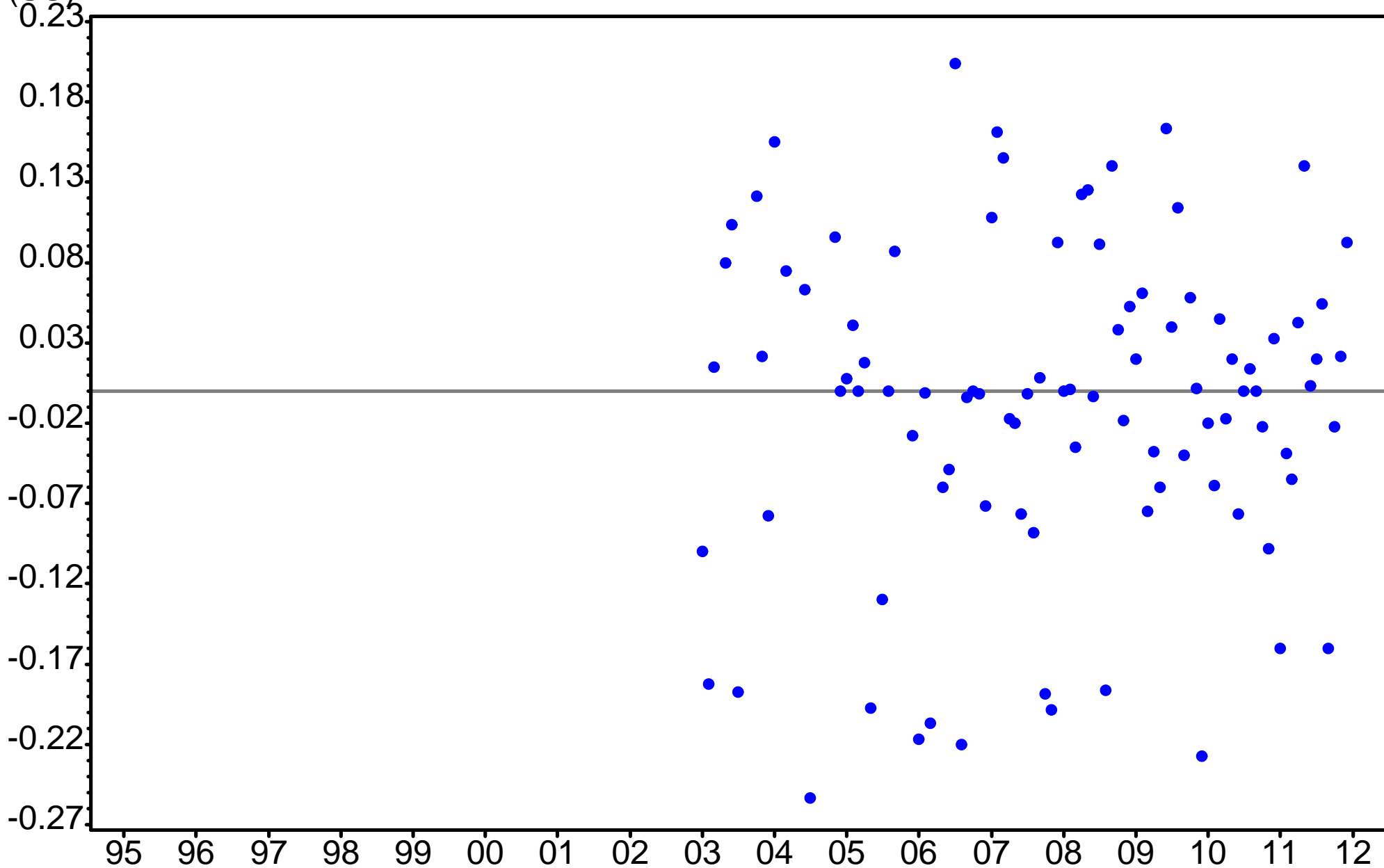
San Carlos Bay Trends Appendix - Display 1567
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.011976	0.91471	0.90814	0

San Carlos Bay Trends Appendix - Display 1568

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(SU)



Zero Reference Line Shown

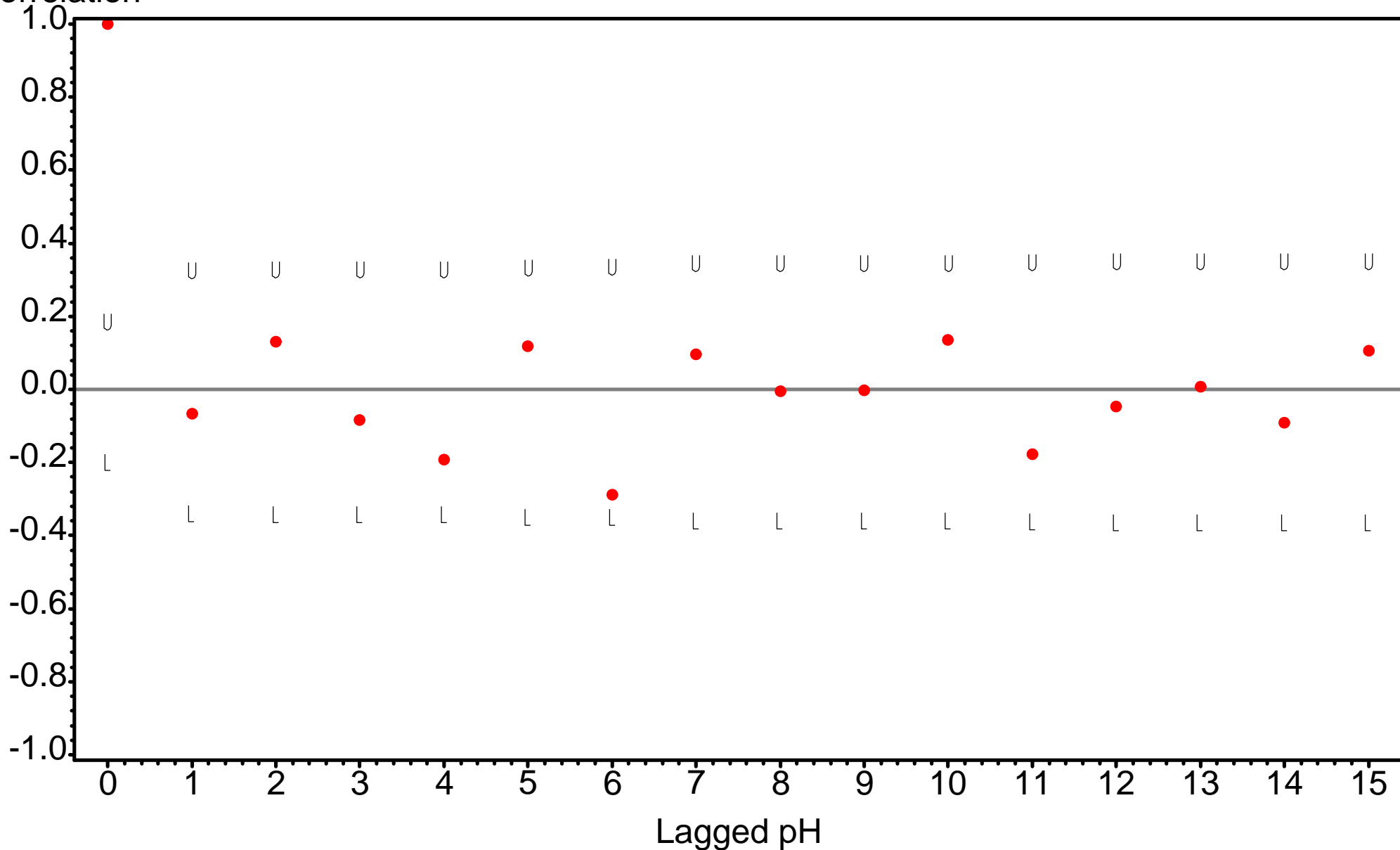
San Carlos Bay Trends Appendix - Display 1569
Autocorrelation Statistics for Surface pH in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.067	0.167	0.333	-0.333
2	0.130	0.167	0.334	-0.334
3	-0.084	0.168	0.336	-0.336
4	-0.193	0.168	0.336	-0.336
5	0.119	0.170	0.341	-0.341
6	-0.287	0.171	0.342	-0.342
7	0.096	0.175	0.351	-0.351
8	-0.006	0.176	0.352	-0.352
9	-0.002	0.176	0.352	-0.352
10	0.135	0.176	0.352	-0.352
11	-0.177	0.177	0.354	-0.354
12	-0.046	0.179	0.357	-0.357
13	0.007	0.179	0.357	-0.357
14	-0.092	0.179	0.357	-0.357
15	0.105	0.179	0.358	-0.358

San Carlos Bay Trends Appendix - Display 1570

Correlogram for Surface pH in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

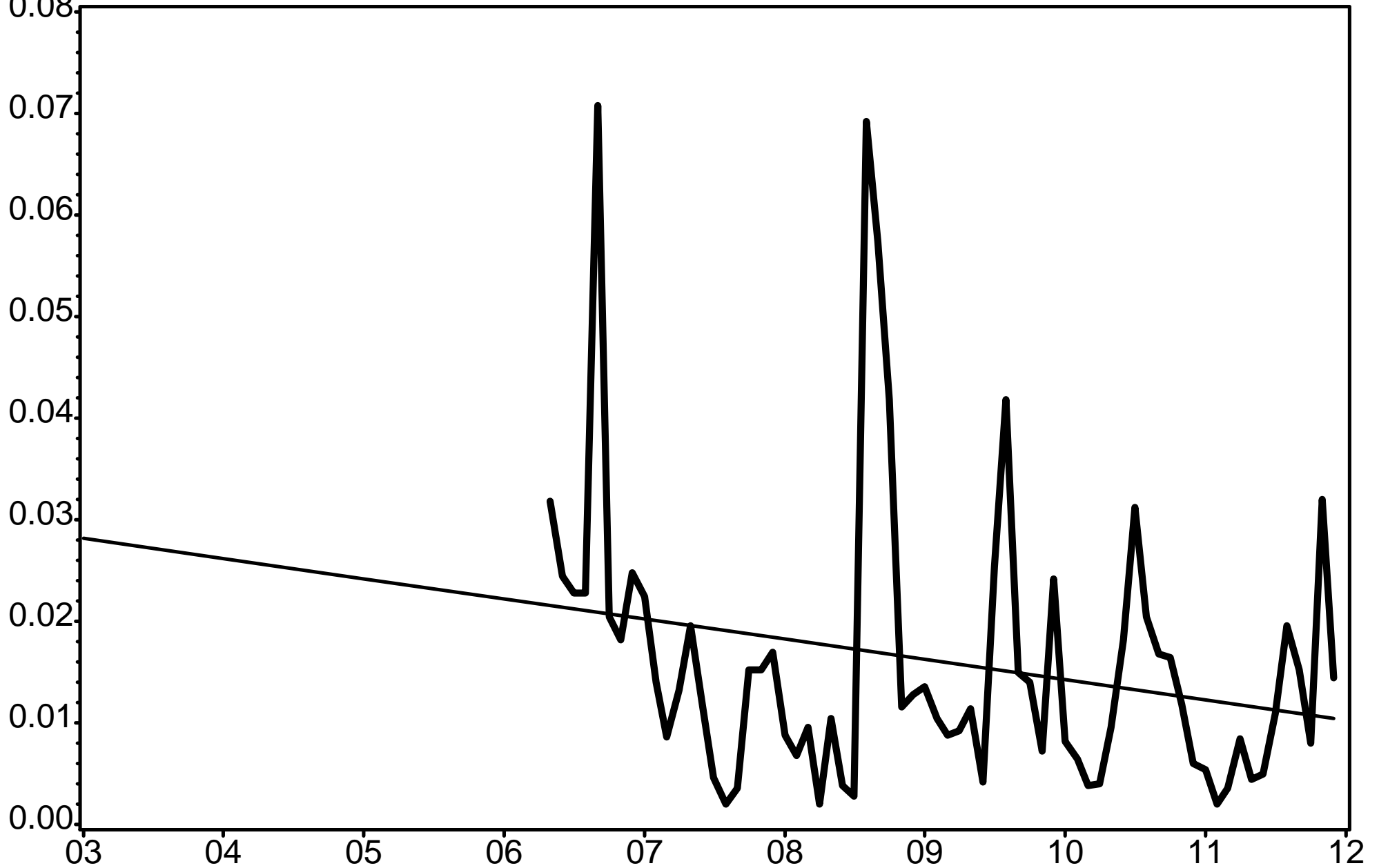
San Carlos Bay Trends Appendix - Display 1571

Monthly Data Time Series

for Surface Orthophosphate (as P) in San Carlos Bay

Not Adjusted for Seasonal Medians

PO4_mgl
(mg/l)



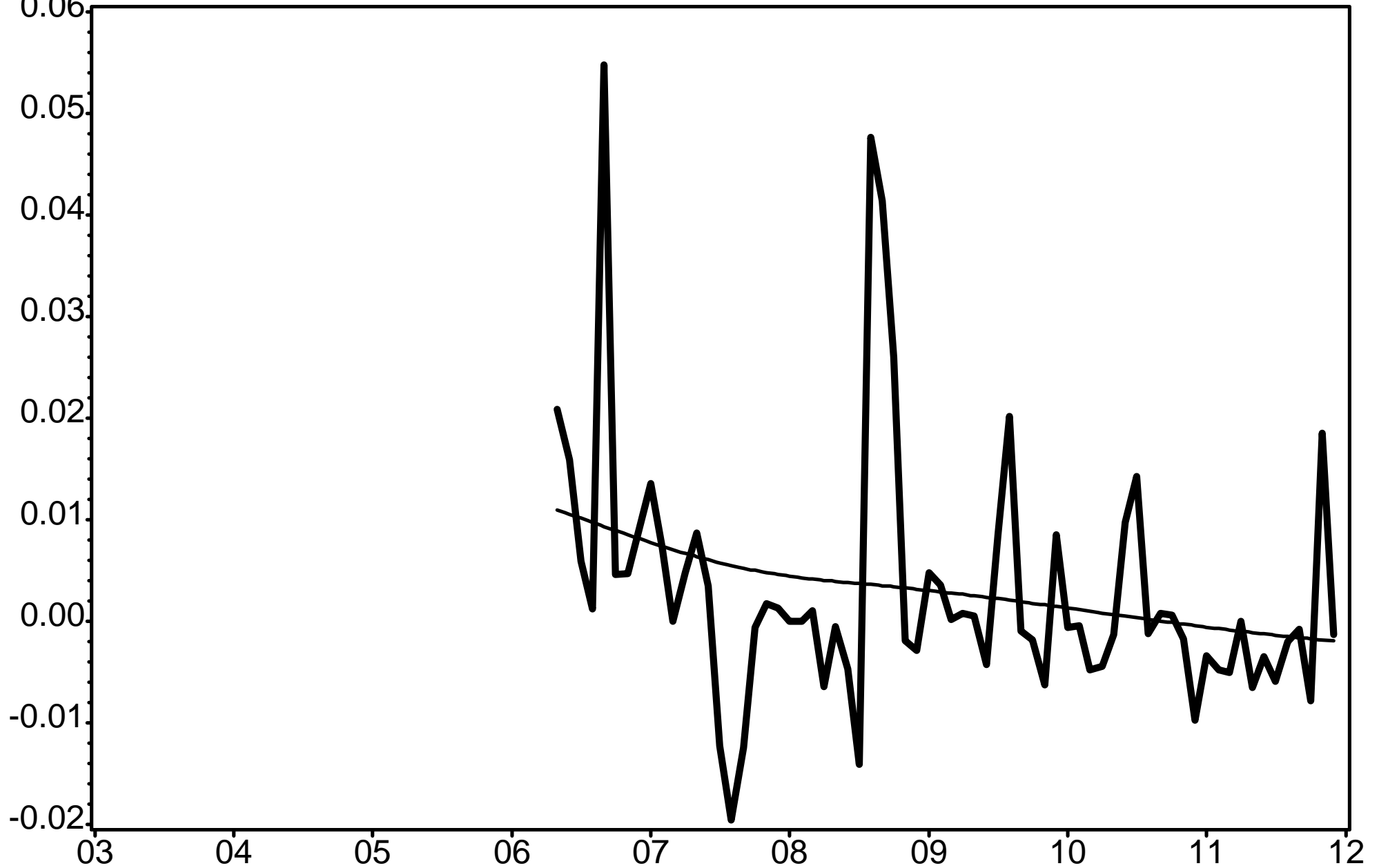
San Carlos Bay Trends Appendix - Display 1572

Monthly Data Time Series

for Surface Orthophosphate (as P) in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

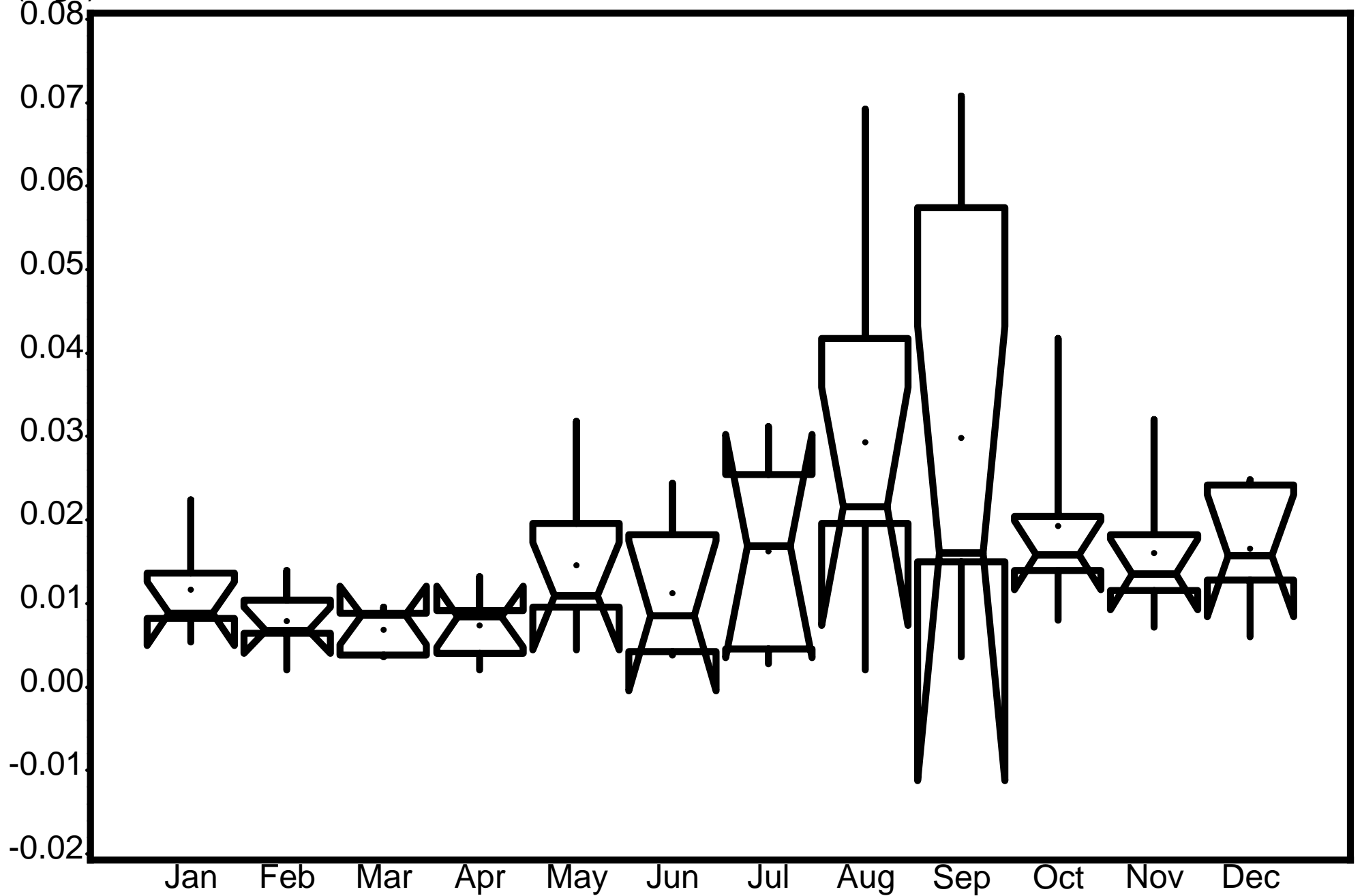


San Carlos Bay Trends Appendix - Display 1573

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in San Carlos Bay

PO4_mgl
(mg/l)



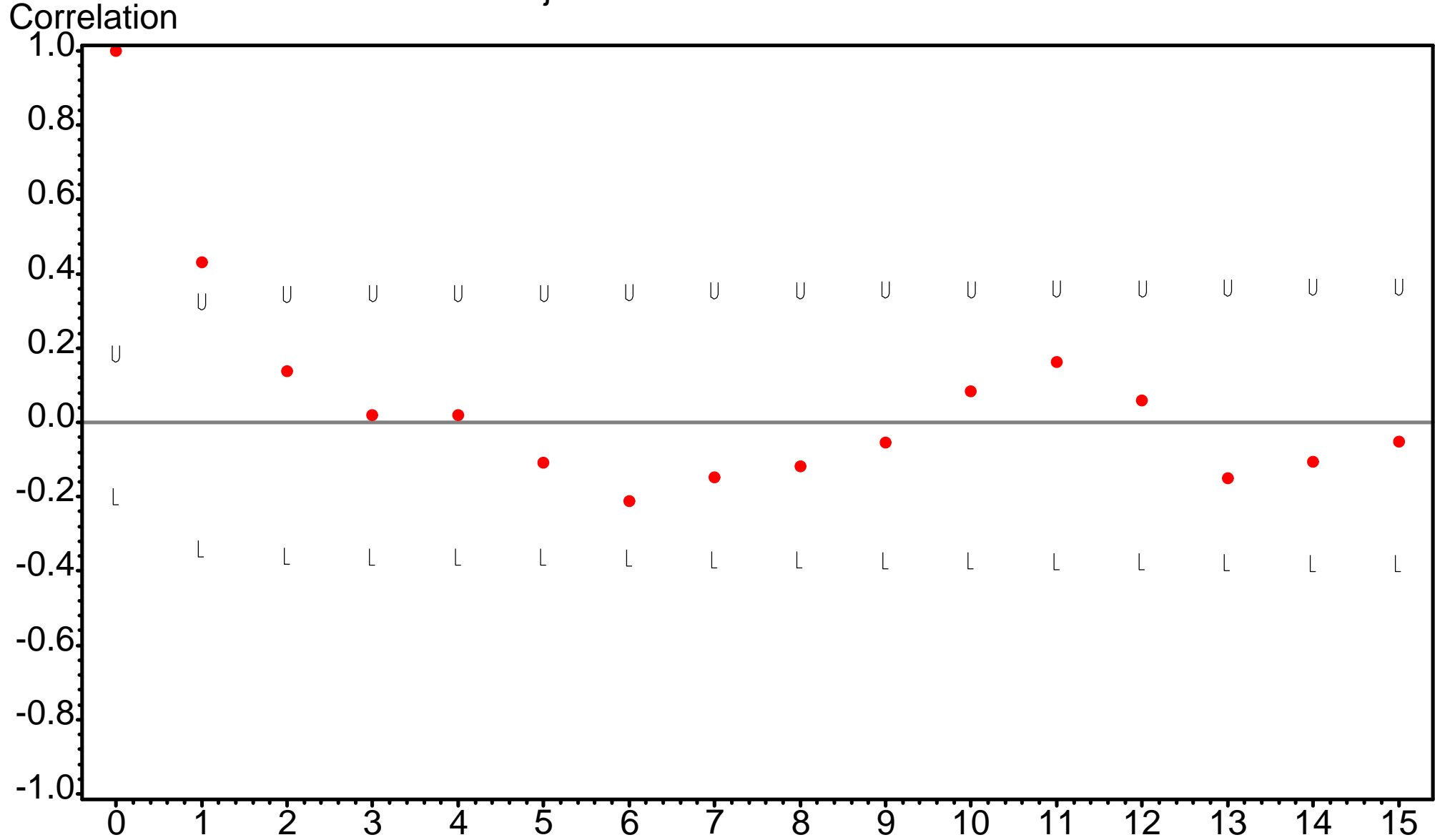
San Carlos Bay Trends Appendix - Display 1574
Autocorrelation Statistics for Surface Orthophosphate (as P) in San Carlos Bay

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.430	0.167	0.333	-0.333
2	0.138	0.177	0.353	-0.353
3	0.020	0.178	0.355	-0.355
4	0.020	0.178	0.355	-0.355
5	-0.108	0.178	0.355	-0.355
6	-0.212	0.178	0.357	-0.357
7	-0.147	0.181	0.361	-0.361
8	-0.119	0.182	0.363	-0.363
9	-0.054	0.182	0.365	-0.365
10	0.083	0.183	0.365	-0.365
11	0.162	0.183	0.366	-0.366
12	0.060	0.184	0.368	-0.368
13	-0.150	0.184	0.369	-0.369
14	-0.106	0.186	0.371	-0.371
15	-0.052	0.186	0.372	-0.372

San Carlos Bay Trends Appendix - Display 1575

Correlogram for Surface Orthophosphate (as P) in San Carlos Bay

Unadjusted for Seasonal Median



Lagged Orthophosphate (as P)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1576
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19	0.022	0.022	-.002

San Carlos Bay Trends Appendix - Display 1577
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.375	.000478142	0.016424	-.002

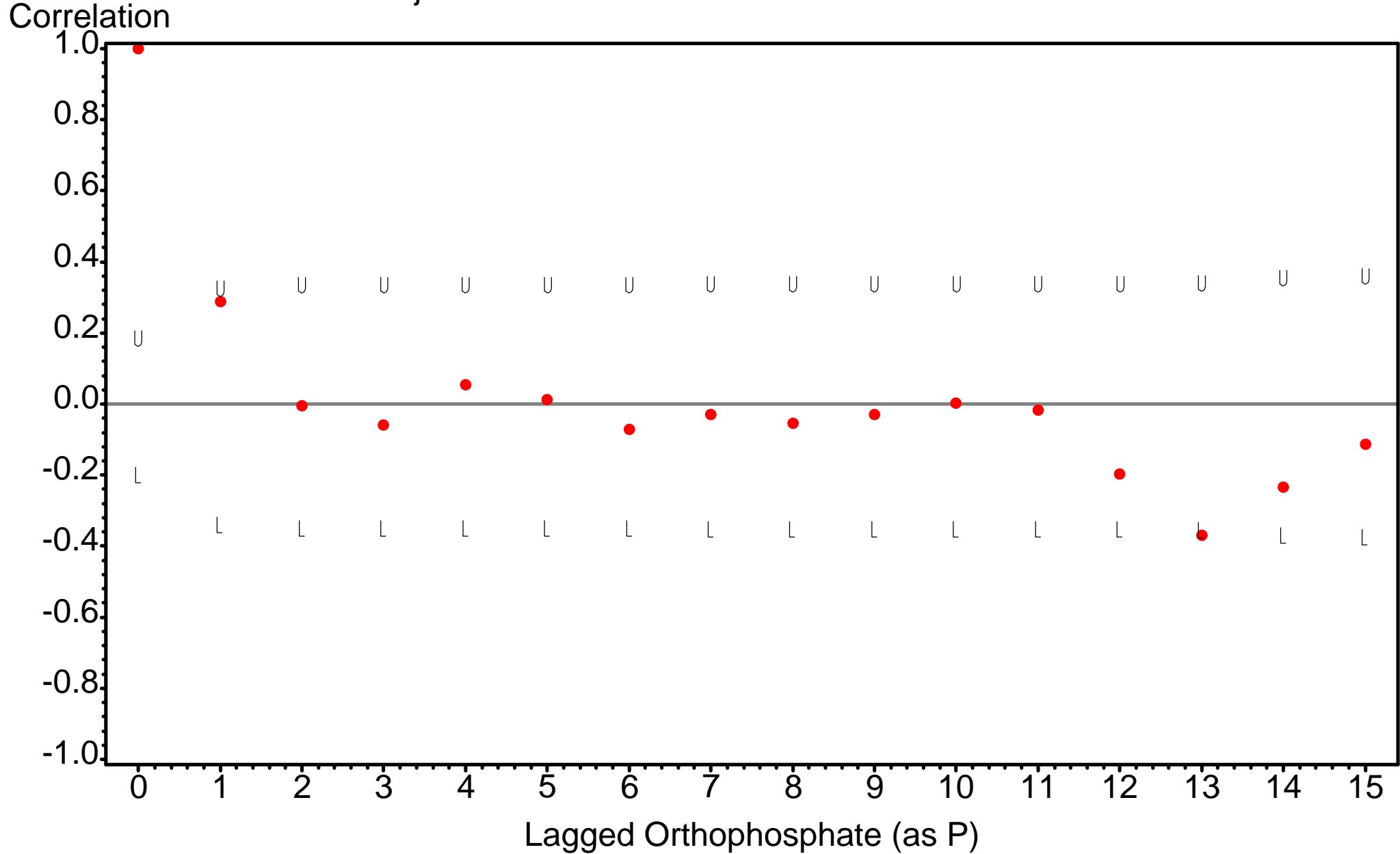
San Carlos Bay Trends Appendix - Display 1579
Autocorrelation Statistics for Surface Orthophosphate (as P) in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.288	0.167	0.333	-0.333
2	-0.005	0.171	0.342	-0.342
3	-0.059	0.171	0.342	-0.342
4	0.053	0.171	0.343	-0.343
5	0.012	0.172	0.343	-0.343
6	-0.072	0.172	0.343	-0.343
7	-0.029	0.172	0.344	-0.344
8	-0.053	0.172	0.344	-0.344
9	-0.029	0.172	0.344	-0.344
10	0.002	0.172	0.344	-0.344
11	-0.017	0.172	0.344	-0.344
12	-0.198	0.172	0.344	-0.344
13	-0.370	0.174	0.348	-0.348
14	-0.234	0.181	0.363	-0.363
15	-0.112	0.184	0.368	-0.368

San Carlos Bay Trends Appendix - Display 1580

Correlogram for Surface Orthophosphate (as P) in San Carlos Bay

Adjusted for Seasonal Median and Detrended

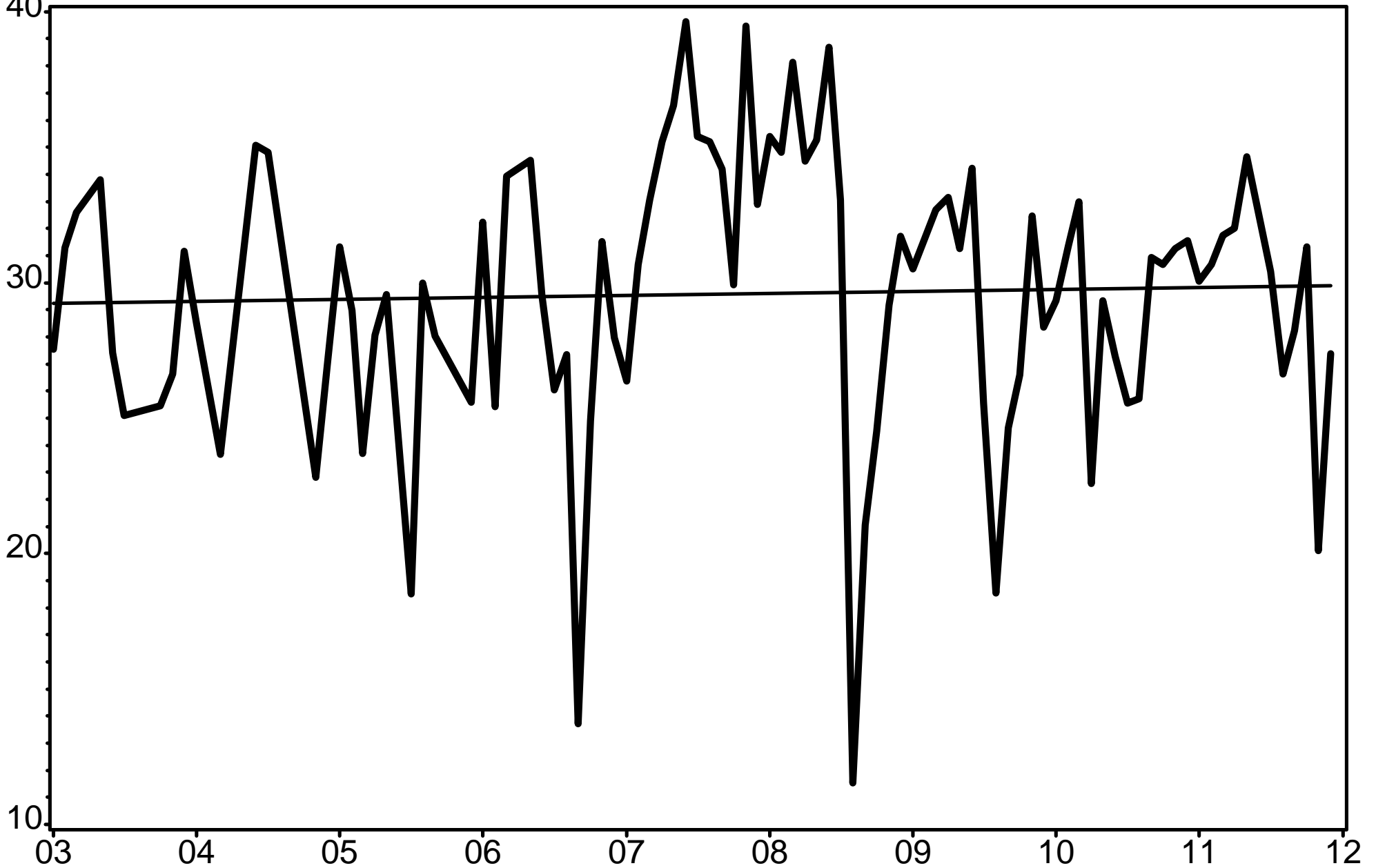


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1581

Monthly Data Time Series
for Surface Salinity in San Carlos Bay
Not Adjusted for Seasonal Medians

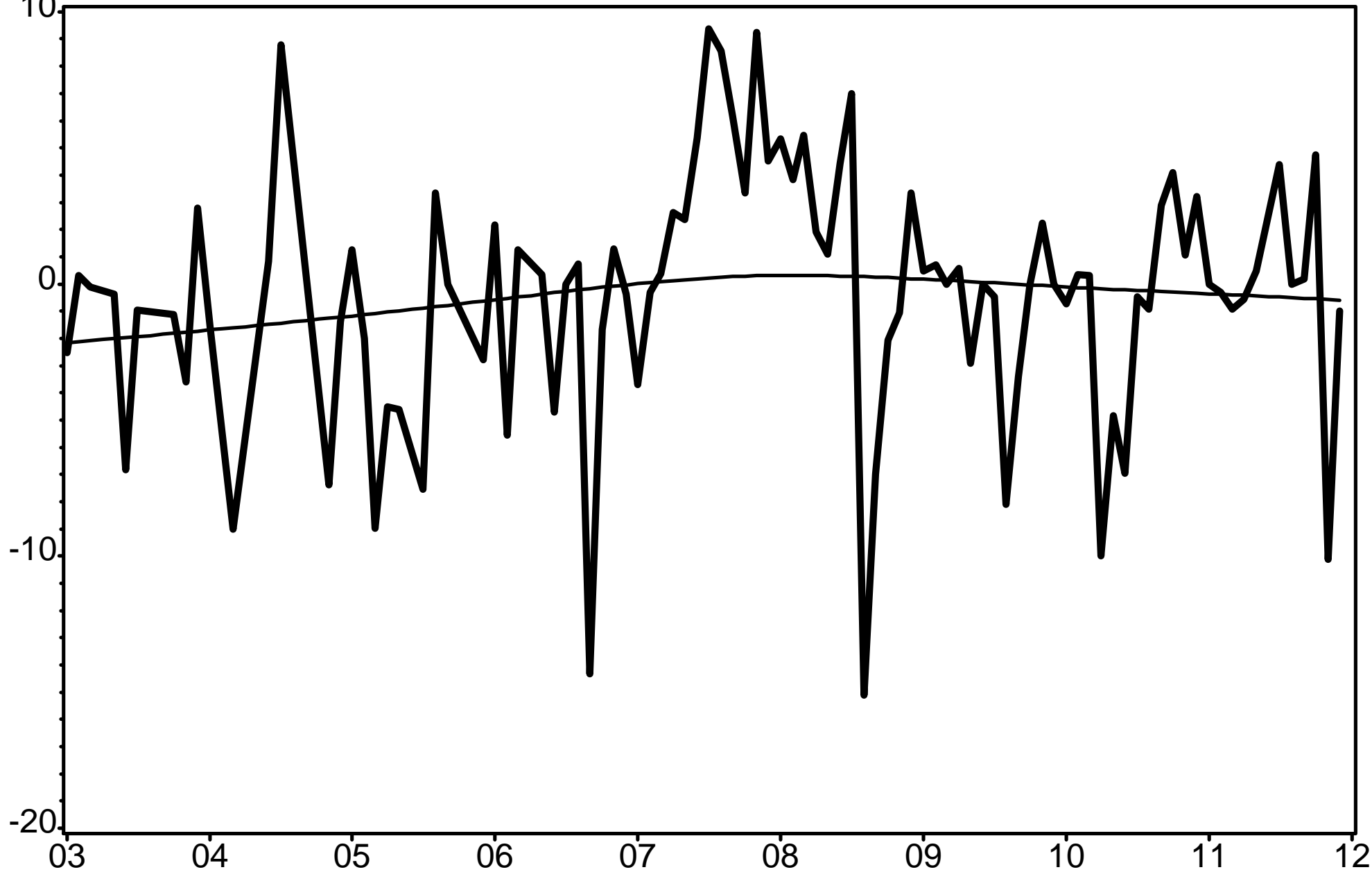
Salinity
(ppt)



San Carlos Bay Trends Appendix - Display 1582

Monthly Data Time Series
for Surface Salinity in San Carlos Bay
Adjusted for Seasonal Medians

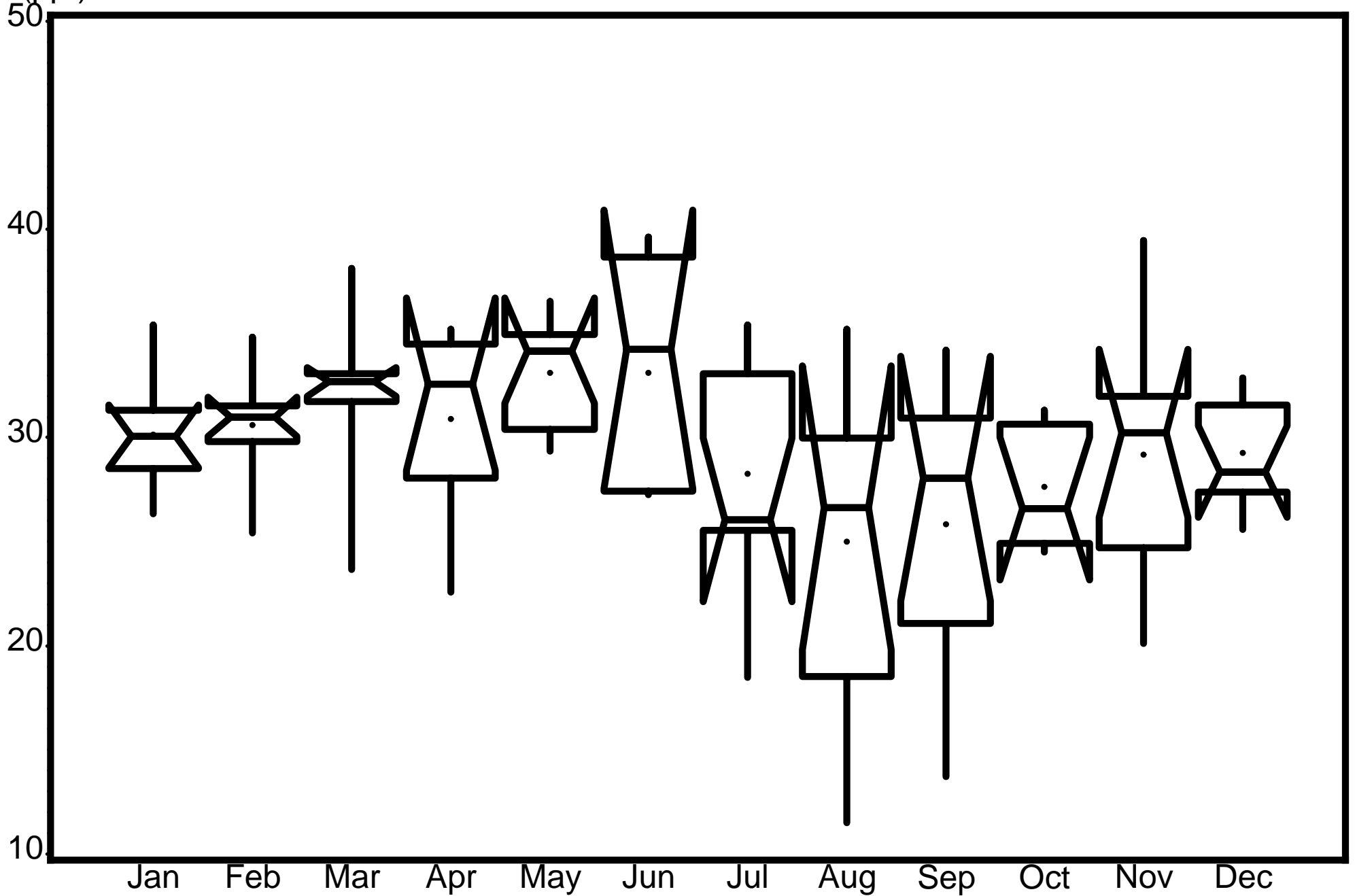
Adjusted
Salinity
(ppt)



San Carlos Bay Trends Appendix - Display 1583

Seasonal Univariate Statistics for Surface Salinity in San Carlos Bay

Salinity
(ppt)



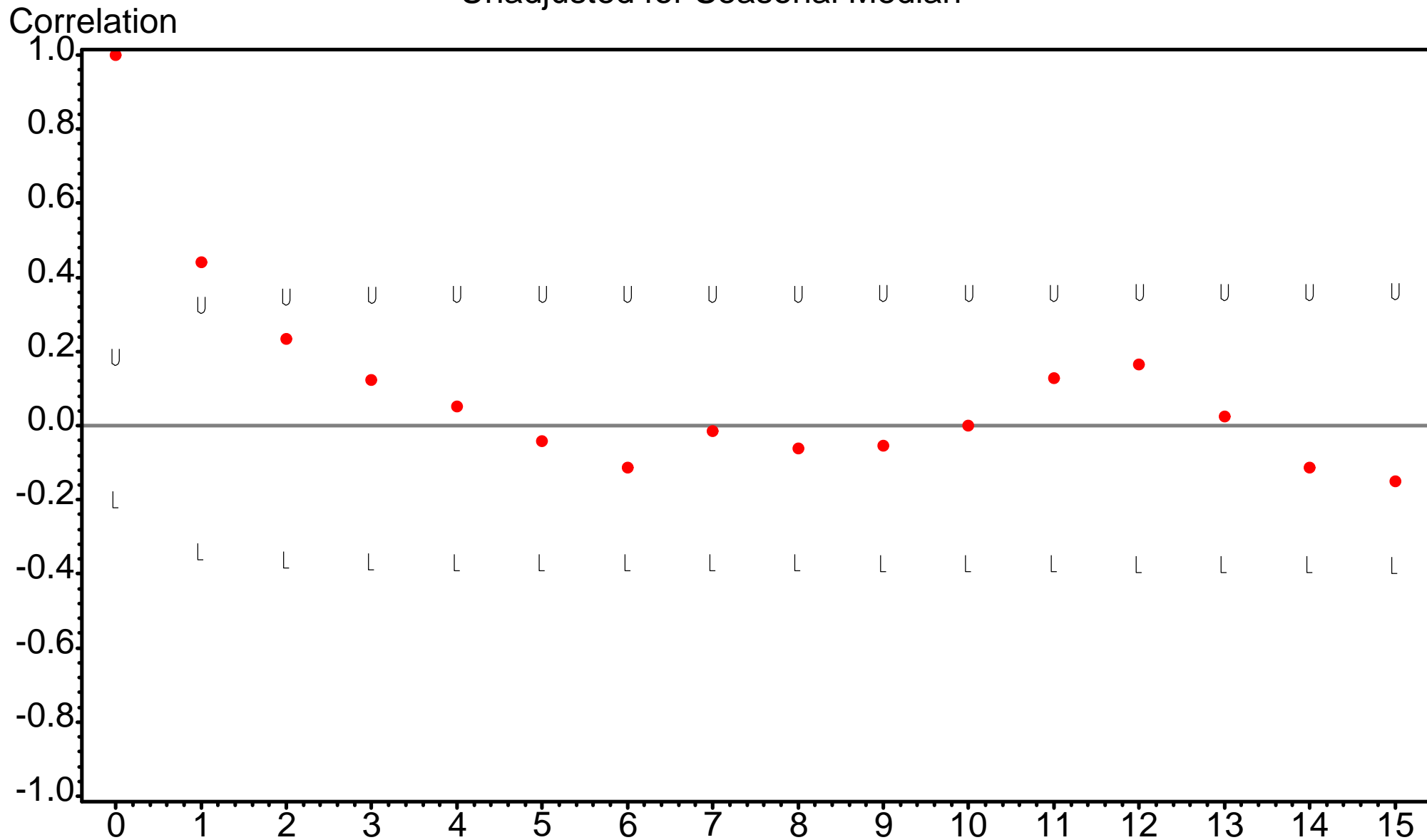
San Carlos Bay Trends Appendix - Display 1584
Autocorrelation Statistics for Surface Salinity in San Carlos Bay

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.440	0.167	0.333	-0.333
2	0.233	0.177	0.354	-0.354
3	0.123	0.180	0.360	-0.360
4	0.052	0.181	0.361	-0.361
5	-0.041	0.181	0.362	-0.362
6	-0.113	0.181	0.362	-0.362
7	-0.015	0.182	0.363	-0.363
8	-0.061	0.182	0.363	-0.363
9	-0.055	0.182	0.364	-0.364
10	0.000	0.182	0.364	-0.364
11	0.128	0.182	0.364	-0.364
12	0.164	0.183	0.366	-0.366
13	0.024	0.184	0.368	-0.368
14	-0.113	0.184	0.368	-0.368
15	-0.149	0.185	0.370	-0.370

San Carlos Bay Trends Appendix - Display 1585

Correlogram for Surface Salinity in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1586
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.027	0.7	0.7	0.063

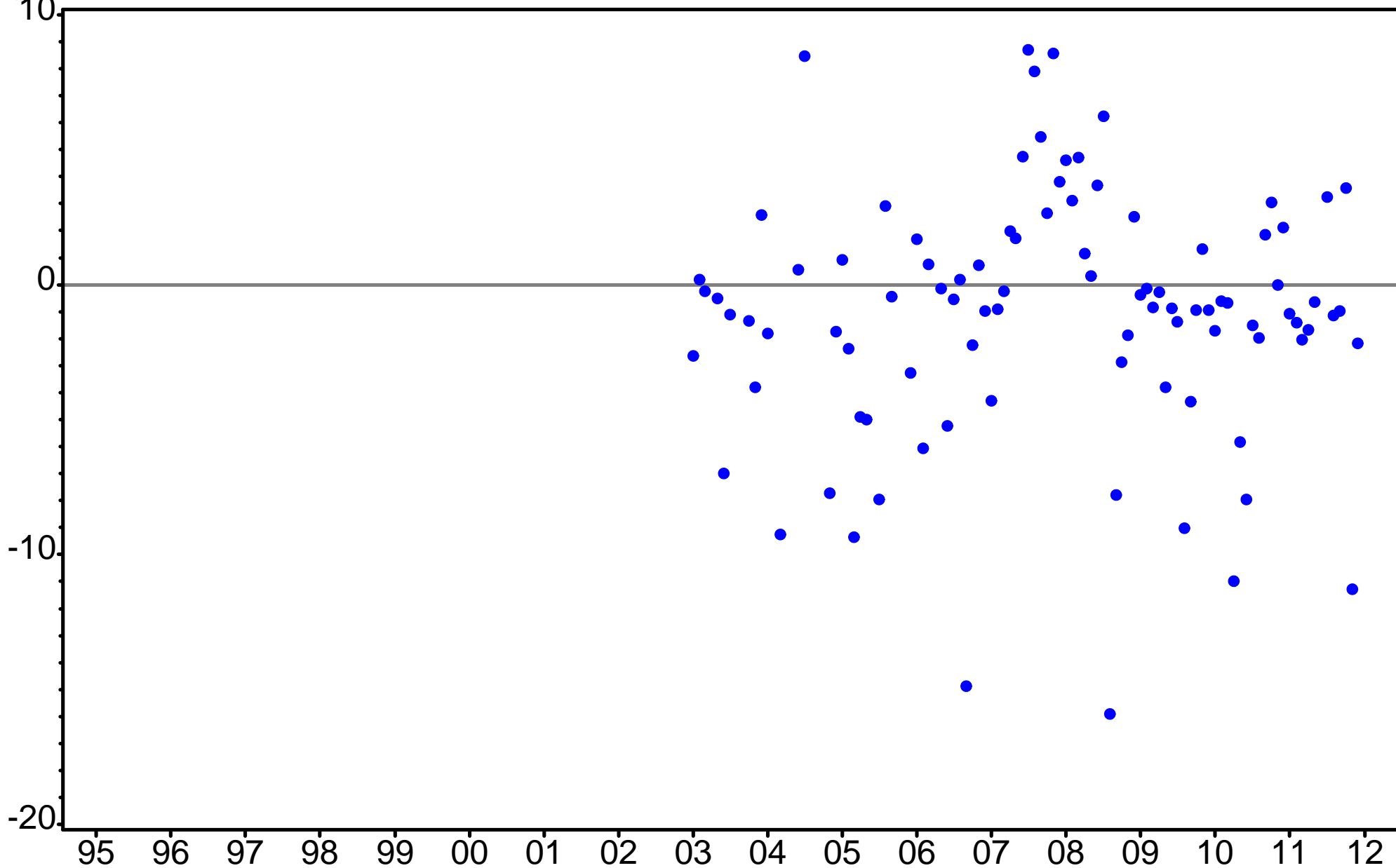
San Carlos Bay Trends Appendix - Display 1587
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.088685	0.31222	0.50478	0.12

San Carlos Bay Trends Appendix - Display 1588

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(ppt)



Zero Reference Line Shown

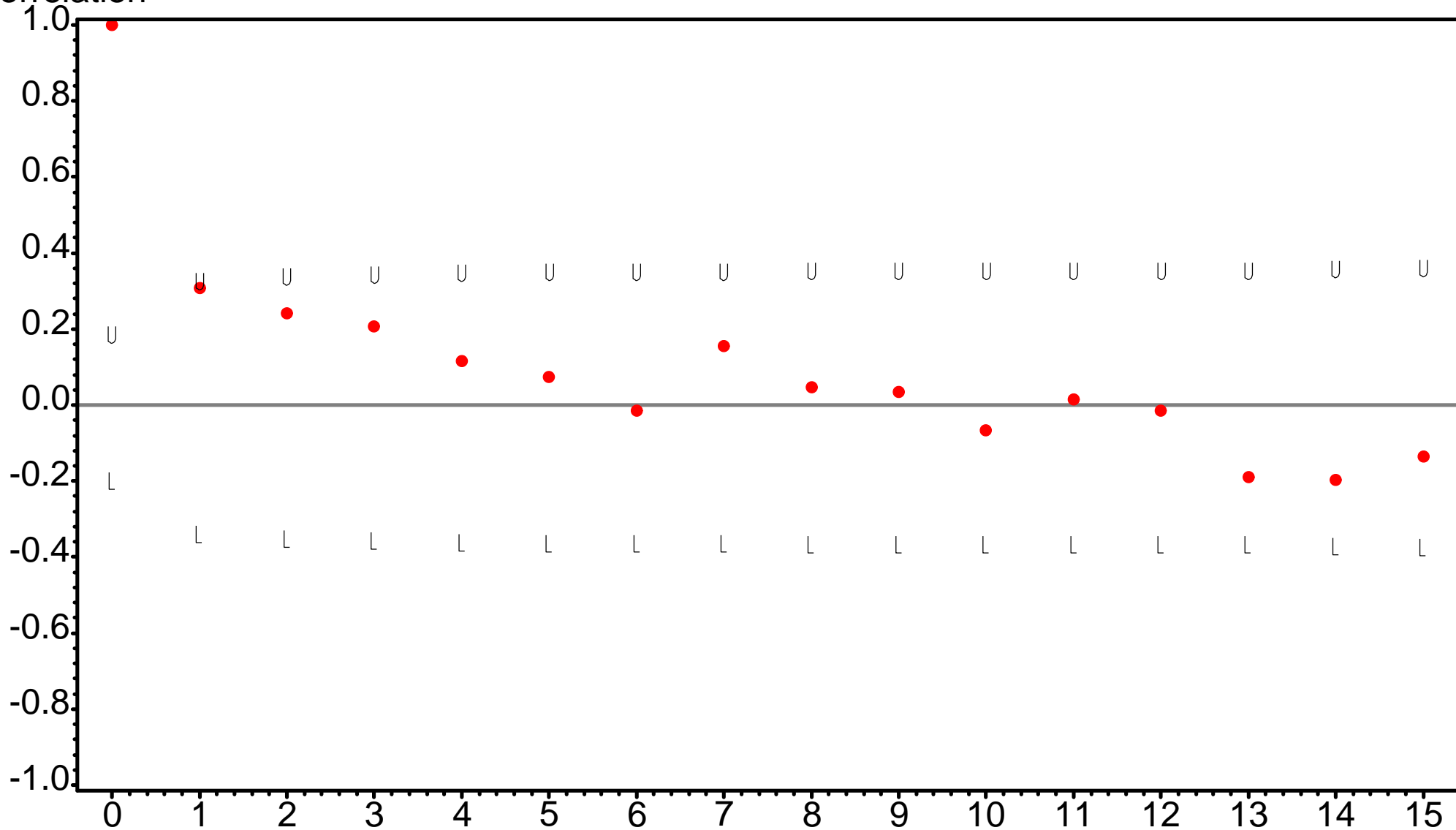
San Carlos Bay Trends Appendix - Display 1589
Autocorrelation Statistics for Surface Salinity in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.309	0.167	0.333	-0.333
2	0.242	0.172	0.344	-0.344
3	0.207	0.175	0.350	-0.350
4	0.116	0.177	0.355	-0.355
5	0.075	0.178	0.356	-0.356
6	-0.015	0.178	0.357	-0.357
7	0.154	0.178	0.357	-0.357
8	0.046	0.180	0.359	-0.359
9	0.035	0.180	0.359	-0.359
10	-0.066	0.180	0.359	-0.359
11	0.016	0.180	0.360	-0.360
12	-0.014	0.180	0.360	-0.360
13	-0.190	0.180	0.360	-0.360
14	-0.197	0.182	0.364	-0.364
15	-0.136	0.184	0.367	-0.367

San Carlos Bay Trends Appendix - Display 1590

Correlogram for Surface Salinity in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Correlation



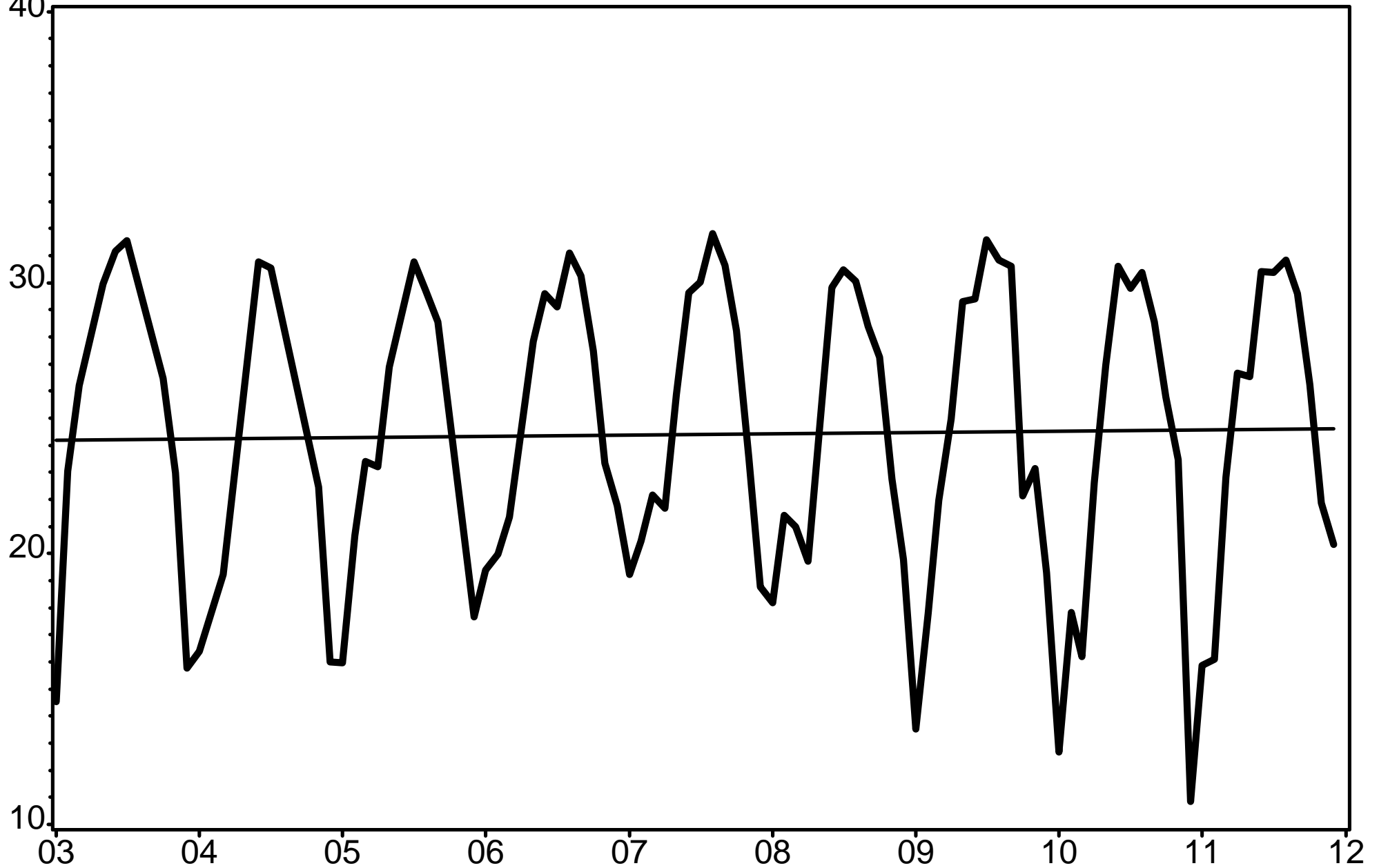
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1591

Monthly Data Time Series
for Surface Temperature in San Carlos Bay
Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)

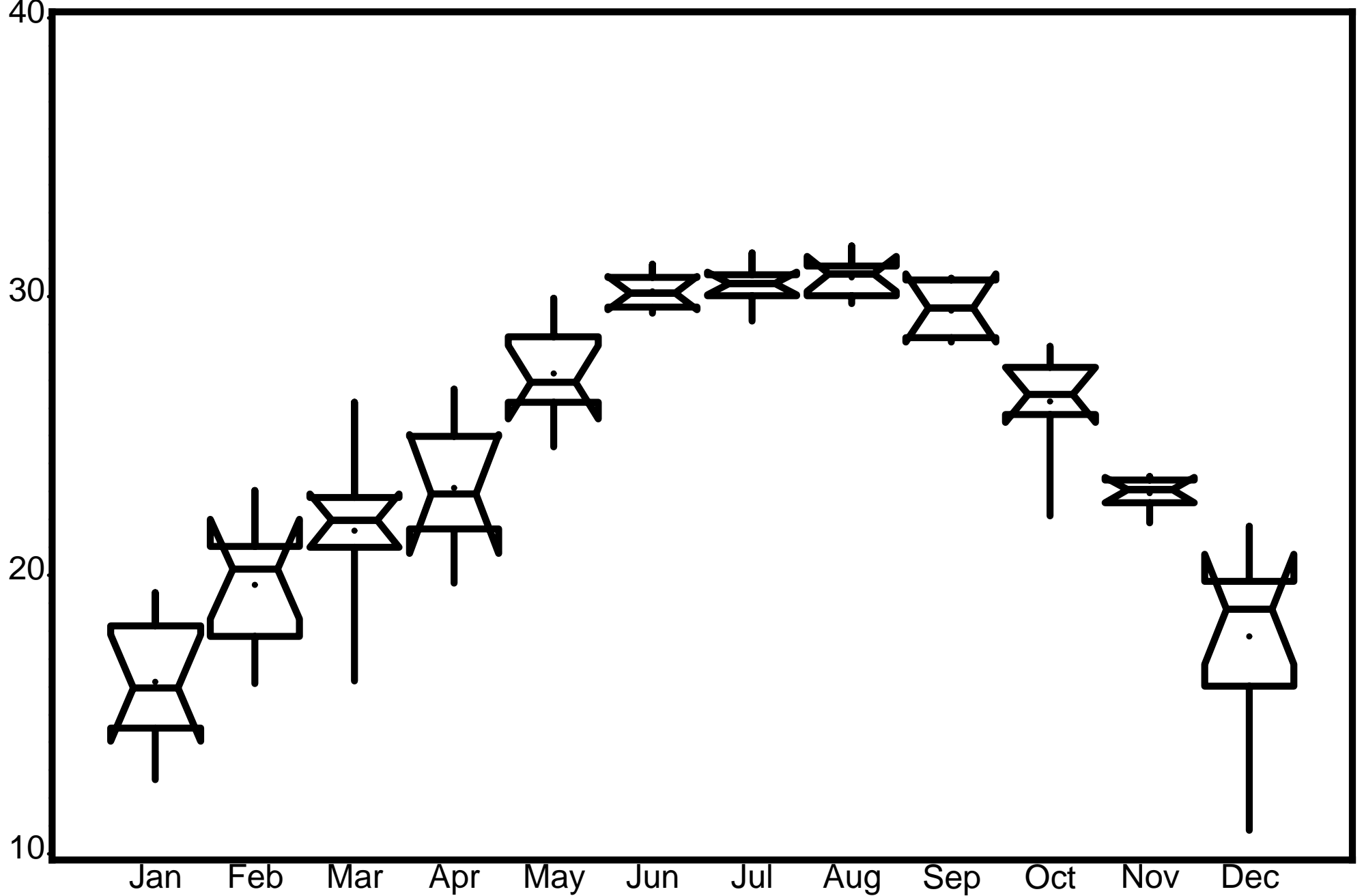


San Carlos Bay Trends Appendix - Display 1593

Seasonal Univariate Statistics

for Surface Temperature in San Carlos Bay

TEMP_C
(Degree C)



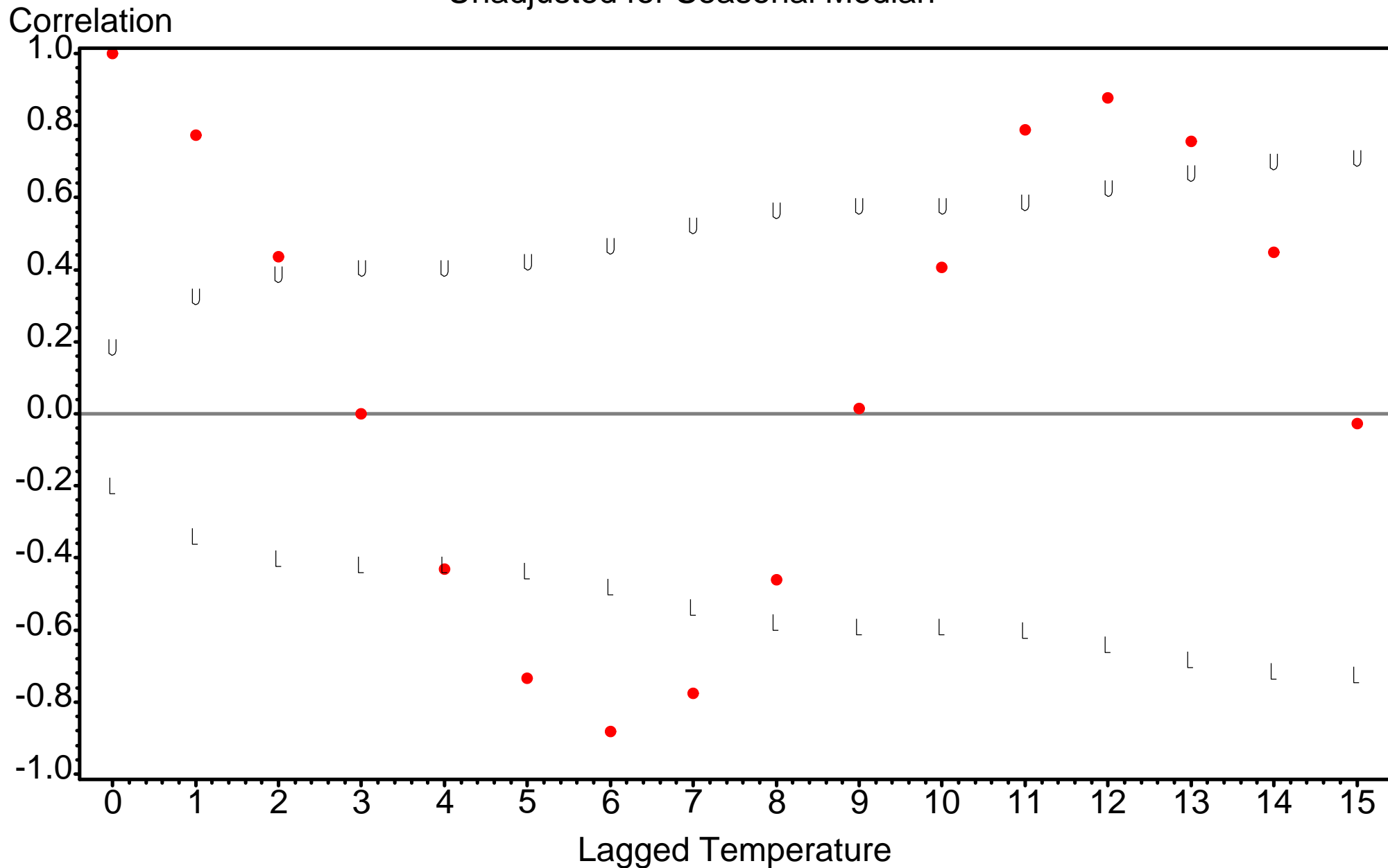
San Carlos Bay Trends Appendix - Display 1594
Autocorrelation Statistics for Surface Temperature in San Carlos Bay

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.773	0.167	0.333	-0.333
2	0.435	0.197	0.394	-0.394
3	-0.001	0.206	0.412	-0.412
4	-0.430	0.206	0.412	-0.412
5	-0.733	0.214	0.428	-0.428
6	-0.882	0.236	0.472	-0.472
7	-0.776	0.265	0.530	-0.530
8	-0.461	0.285	0.570	-0.570
9	0.016	0.292	0.584	-0.584
10	0.406	0.292	0.584	-0.584
11	0.789	0.297	0.594	-0.594
12	0.876	0.316	0.632	-0.632
13	0.756	0.338	0.675	-0.675
14	0.448	0.353	0.706	-0.706
15	-0.026	0.358	0.716	-0.716

San Carlos Bay Trends Appendix - Display 1595

Correlogram for Surface Temperature in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1596
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.019	0.782	0.782	0.045

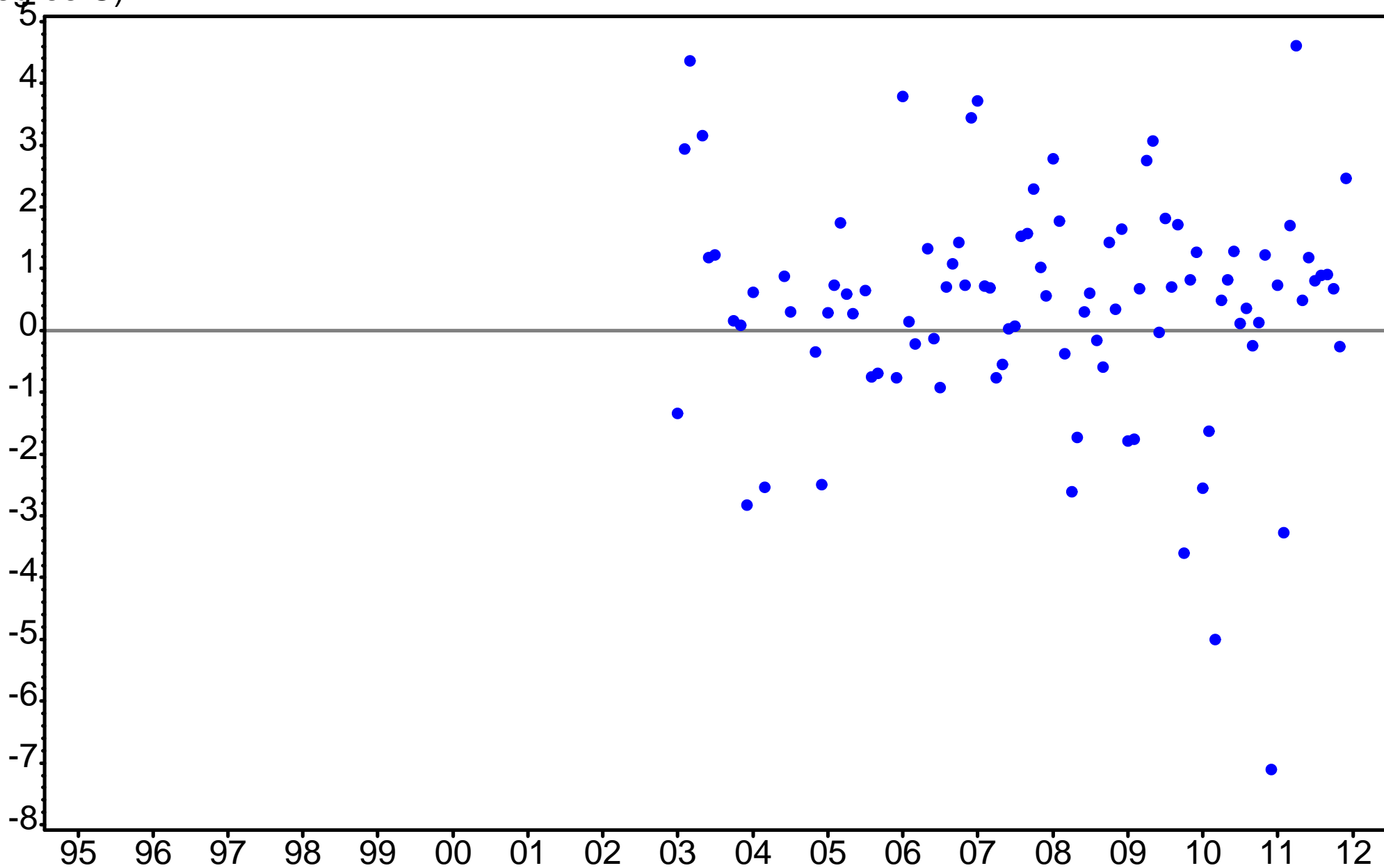
San Carlos Bay Trends Appendix - Display 1597
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13473	0.1174	0.17279	-0.093542

San Carlos Bay Trends Appendix - Display 1598

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(Degree C)



Zero Reference Line Shown

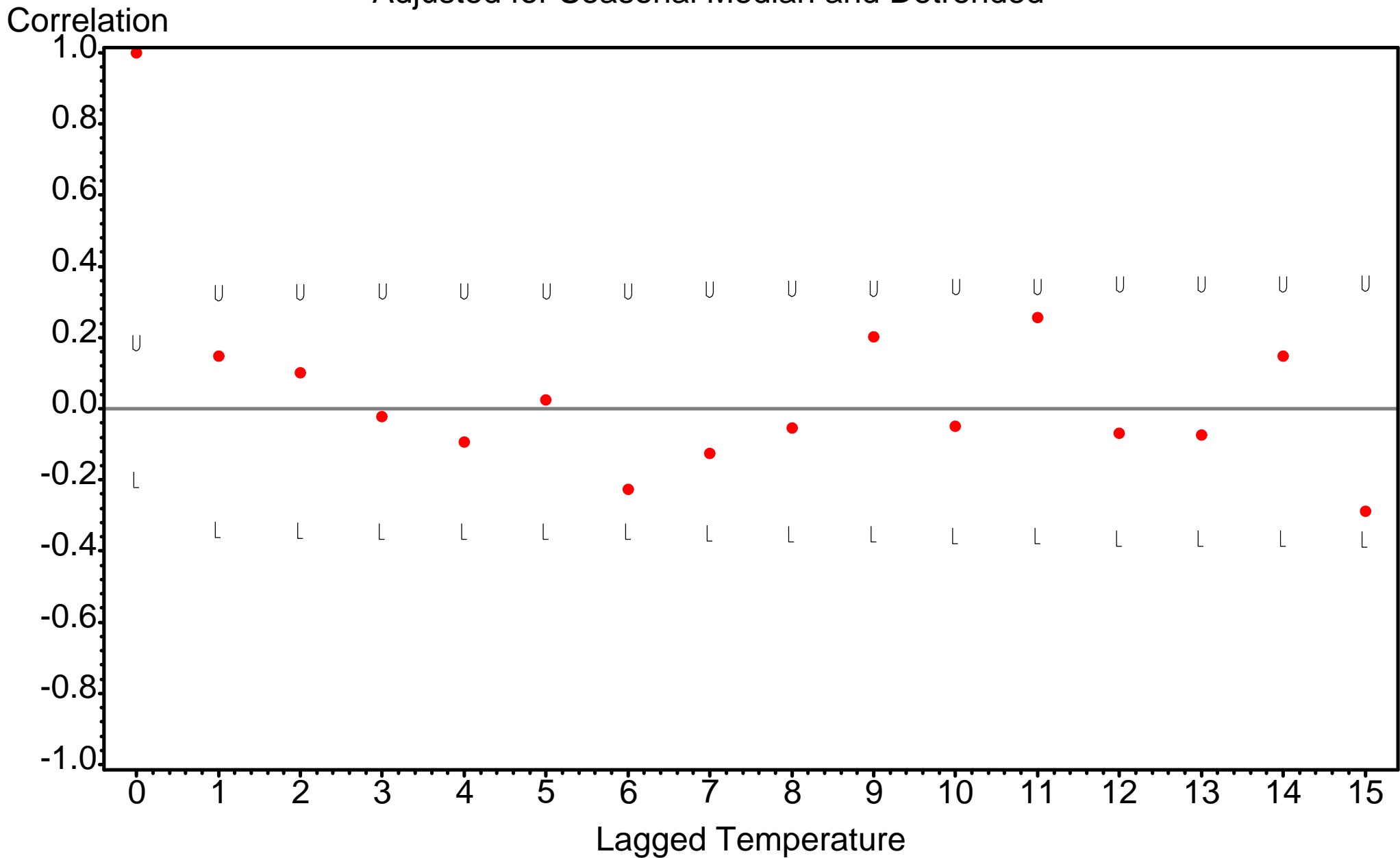
San Carlos Bay Trends Appendix - Display 1599
Autocorrelation Statistics for Surface Temperature in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.147	0.167	0.333	-0.333
2	0.102	0.168	0.336	-0.336
3	-0.021	0.168	0.337	-0.337
4	-0.093	0.168	0.337	-0.337
5	0.024	0.169	0.338	-0.338
6	-0.226	0.169	0.338	-0.338
7	-0.126	0.172	0.343	-0.343
8	-0.053	0.173	0.345	-0.345
9	0.203	0.173	0.345	-0.345
10	-0.048	0.175	0.350	-0.350
11	0.255	0.175	0.350	-0.350
12	-0.069	0.178	0.357	-0.357
13	-0.073	0.179	0.357	-0.357
14	0.147	0.179	0.358	-0.358
15	-0.289	0.180	0.360	-0.360

San Carlos Bay Trends Appendix - Display 1600

Correlogram for Surface Temperature in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

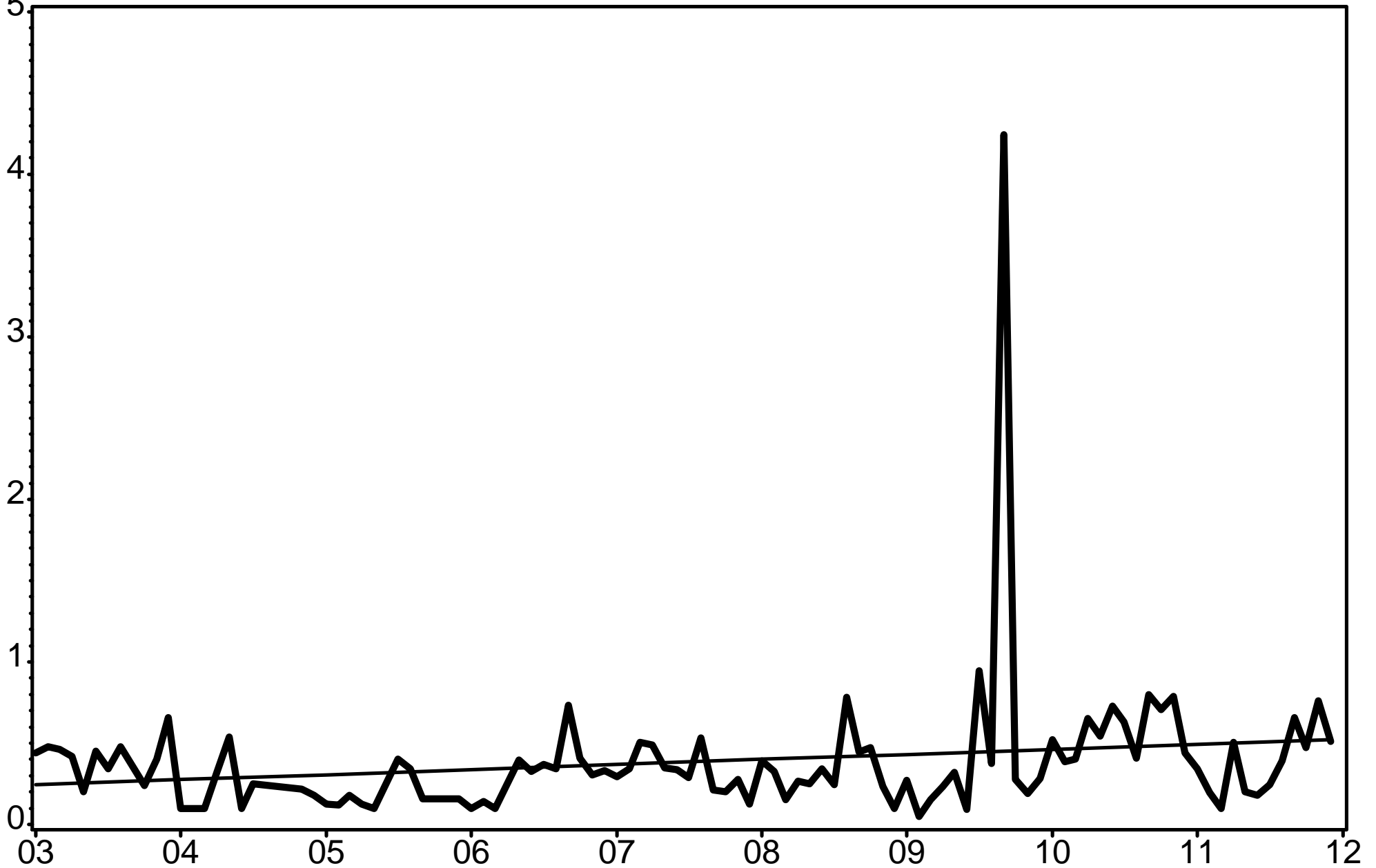
San Carlos Bay Trends Appendix - Display 1601

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in San Carlos Bay

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



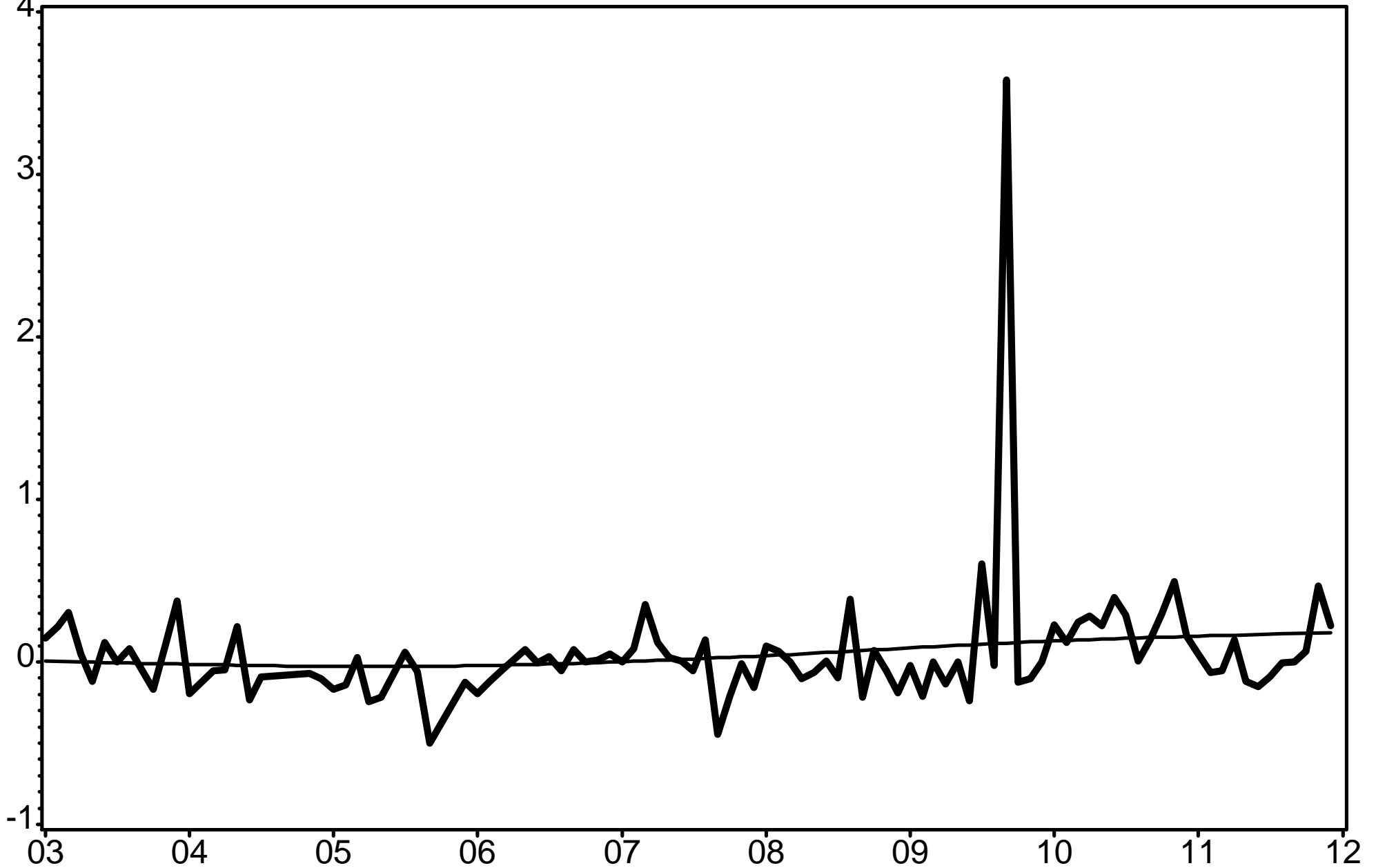
San Carlos Bay Trends Appendix - Display 1602

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

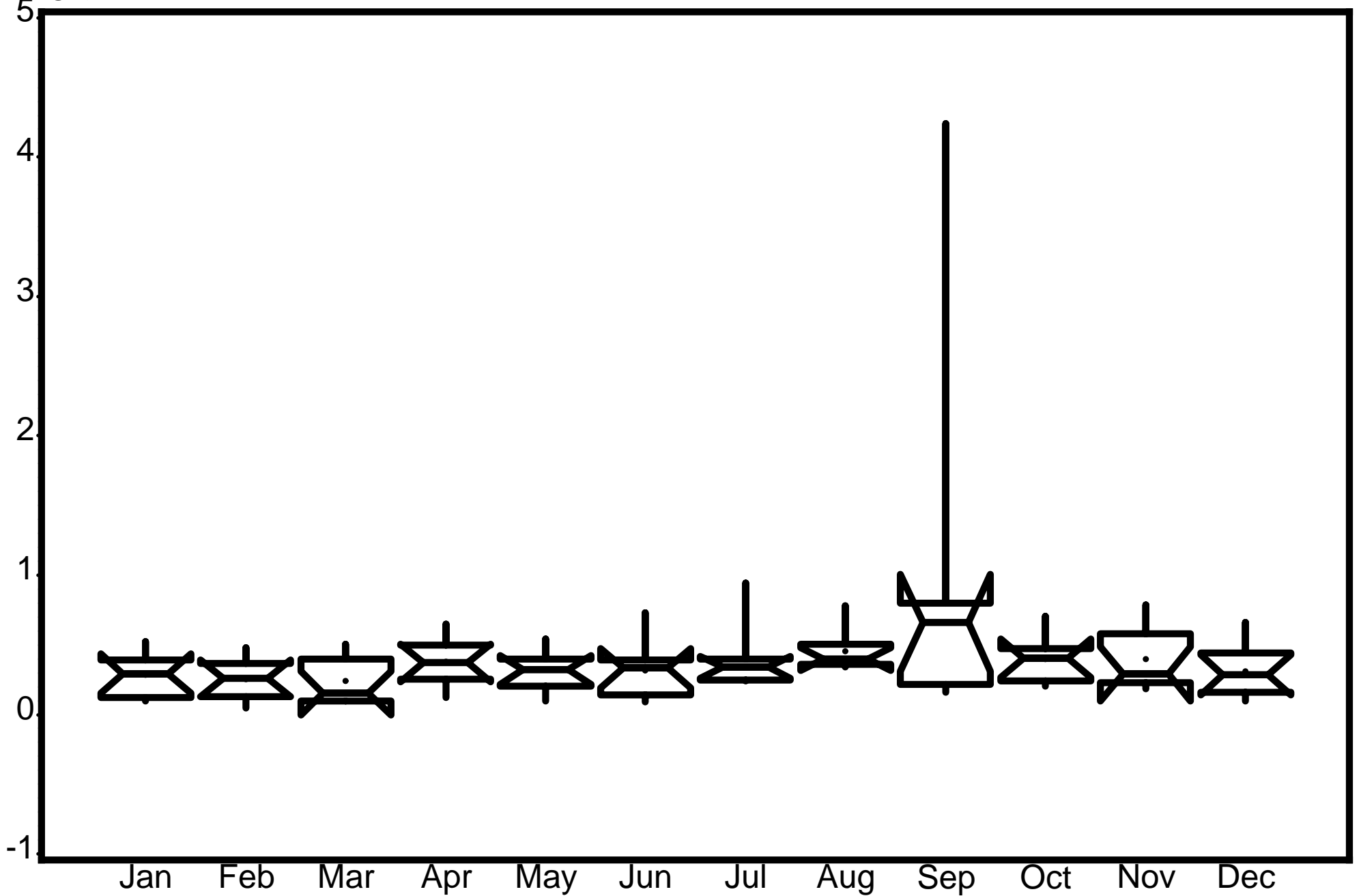


San Carlos Bay Trends Appendix - Display 1603

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in San Carlos Bay

TKN_mgl
(mg/l)



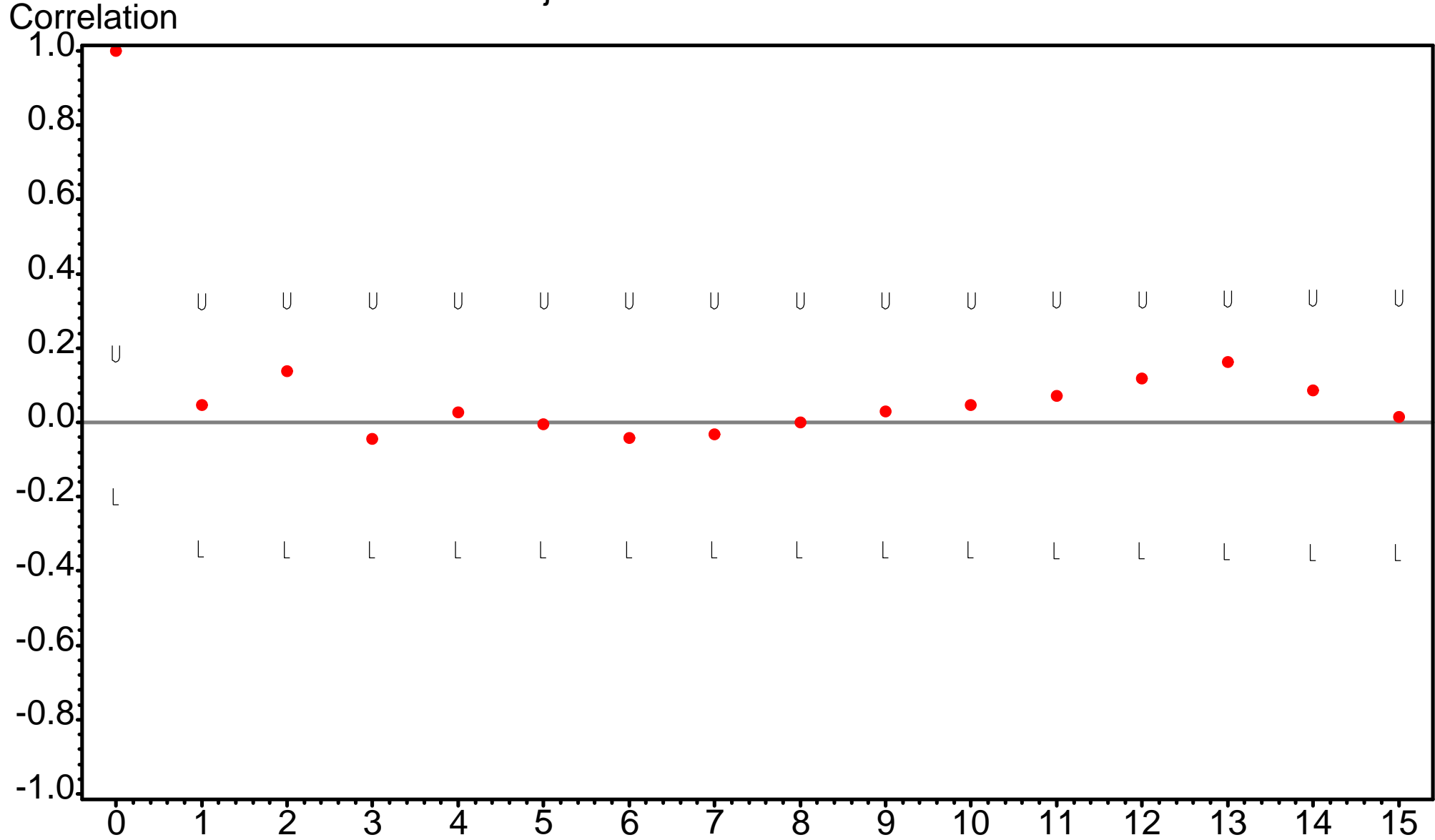
San Carlos Bay Trends Appendix - Display 1604
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in San Carlos Bay

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.046	0.167	0.333	-0.333
2	0.139	0.167	0.334	-0.334
3	-0.045	0.168	0.336	-0.336
4	0.027	0.168	0.336	-0.336
5	-0.005	0.168	0.336	-0.336
6	-0.043	0.168	0.336	-0.336
7	-0.031	0.168	0.336	-0.336
8	0.001	0.168	0.336	-0.336
9	0.029	0.168	0.336	-0.336
10	0.048	0.168	0.336	-0.336
11	0.071	0.168	0.337	-0.337
12	0.118	0.169	0.337	-0.337
13	0.162	0.169	0.339	-0.339
14	0.085	0.171	0.342	-0.342
15	0.016	0.171	0.342	-0.342

San Carlos Bay Trends Appendix - Display 1605

Correlogram for Surface Total Kjeldahl Nitrogen in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1606
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.149	0.029	0.029	0.018

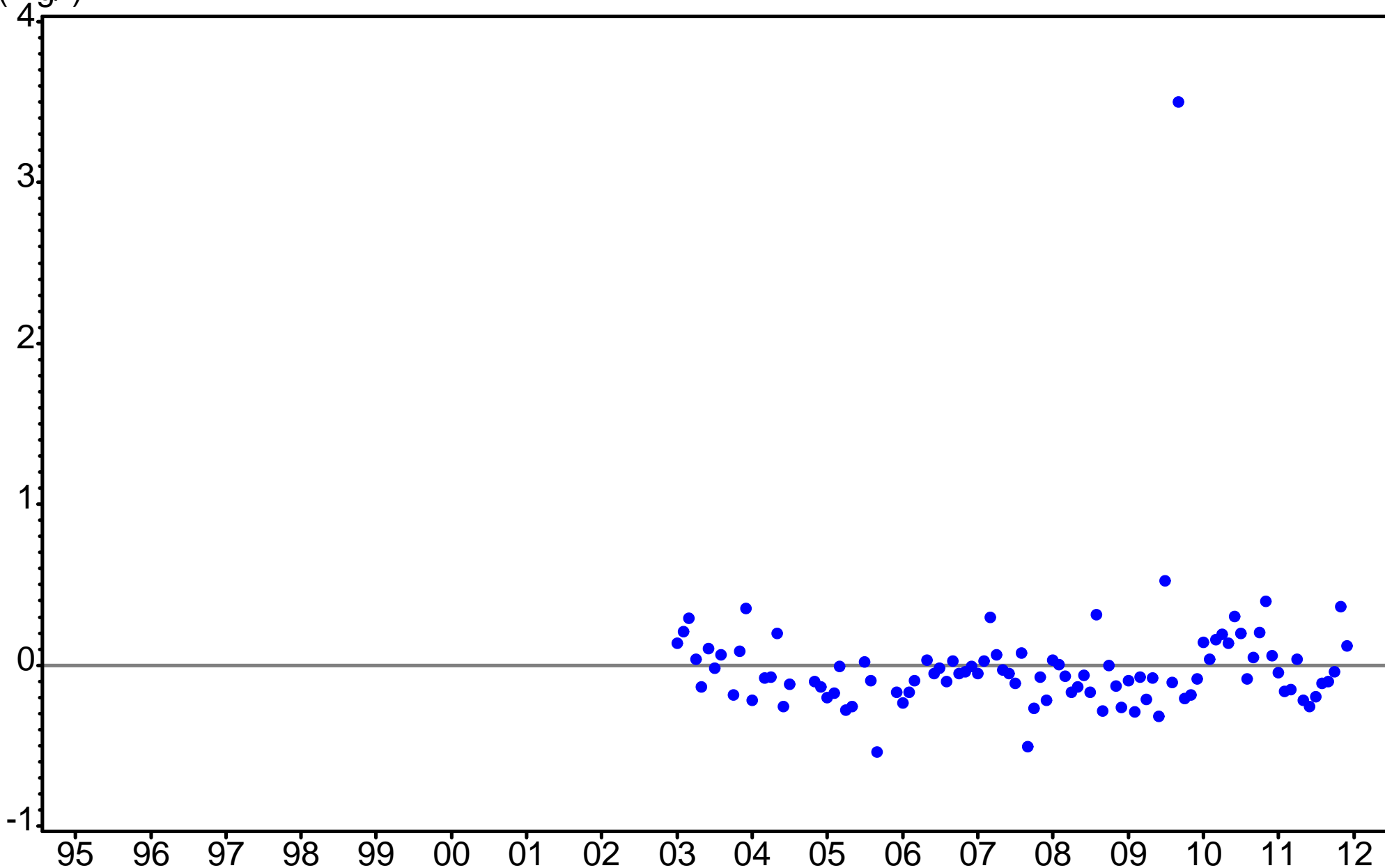
San Carlos Bay Trends Appendix - Display 1607
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10497	0.21056	0.48872	0.0107

San Carlos Bay Trends Appendix - Display 1608

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

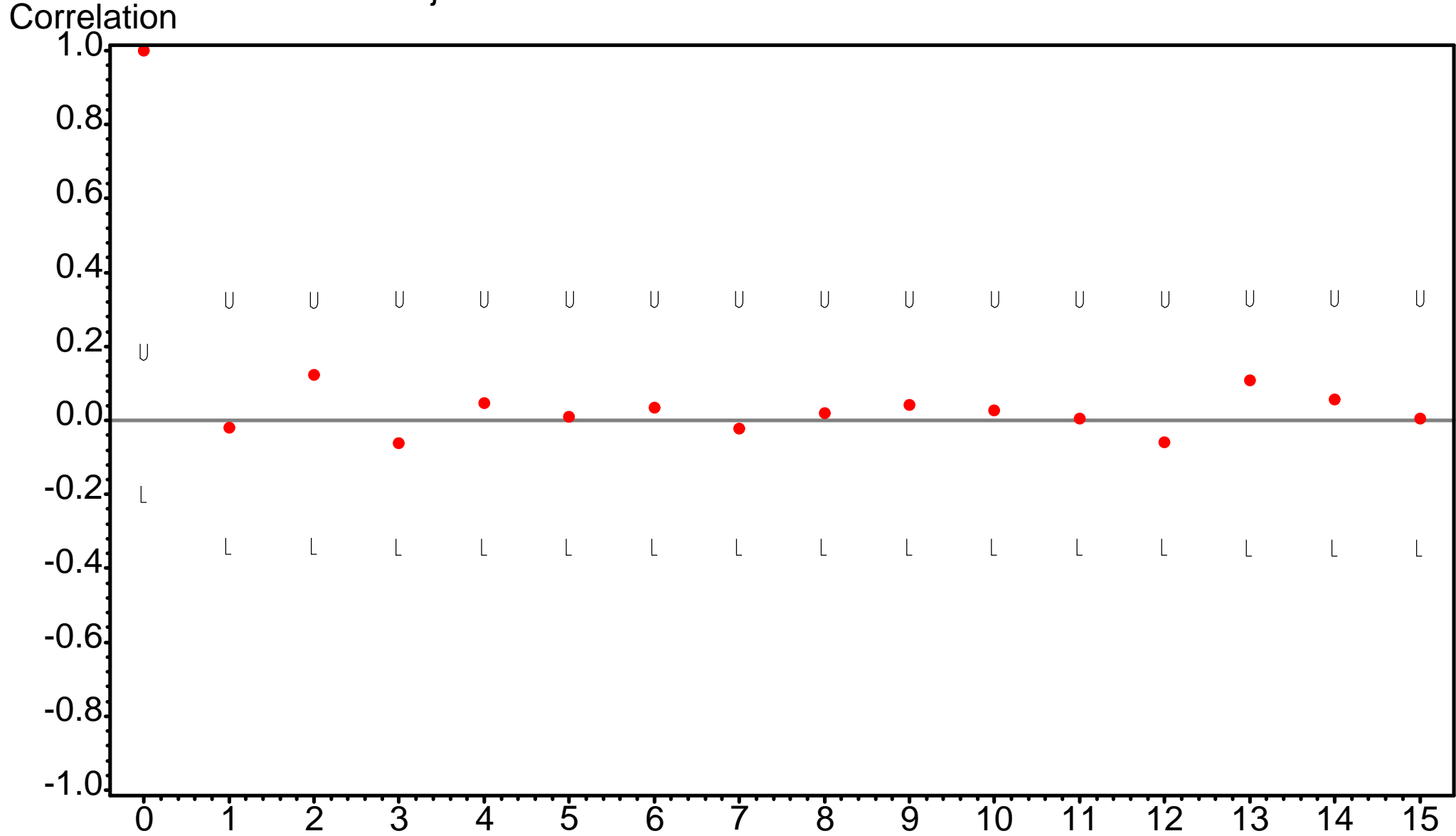
San Carlos Bay Trends Appendix - Display 1609
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.020	0.167	0.333	-0.333
2	0.122	0.167	0.333	-0.333
3	-0.061	0.168	0.335	-0.335
4	0.048	0.168	0.335	-0.335
5	0.009	0.168	0.336	-0.336
6	0.034	0.168	0.336	-0.336
7	-0.023	0.168	0.336	-0.336
8	0.020	0.168	0.336	-0.336
9	0.043	0.168	0.336	-0.336
10	0.028	0.168	0.336	-0.336
11	0.005	0.168	0.336	-0.336
12	-0.060	0.168	0.336	-0.336
13	0.108	0.168	0.337	-0.337
14	0.056	0.169	0.338	-0.338
15	0.004	0.169	0.338	-0.338

San Carlos Bay Trends Appendix - Display 1610

Correlogram for Surface Total Kjeldahl Nitrogen in San Carlos Bay

Adjusted for Seasonal Median and Detrended



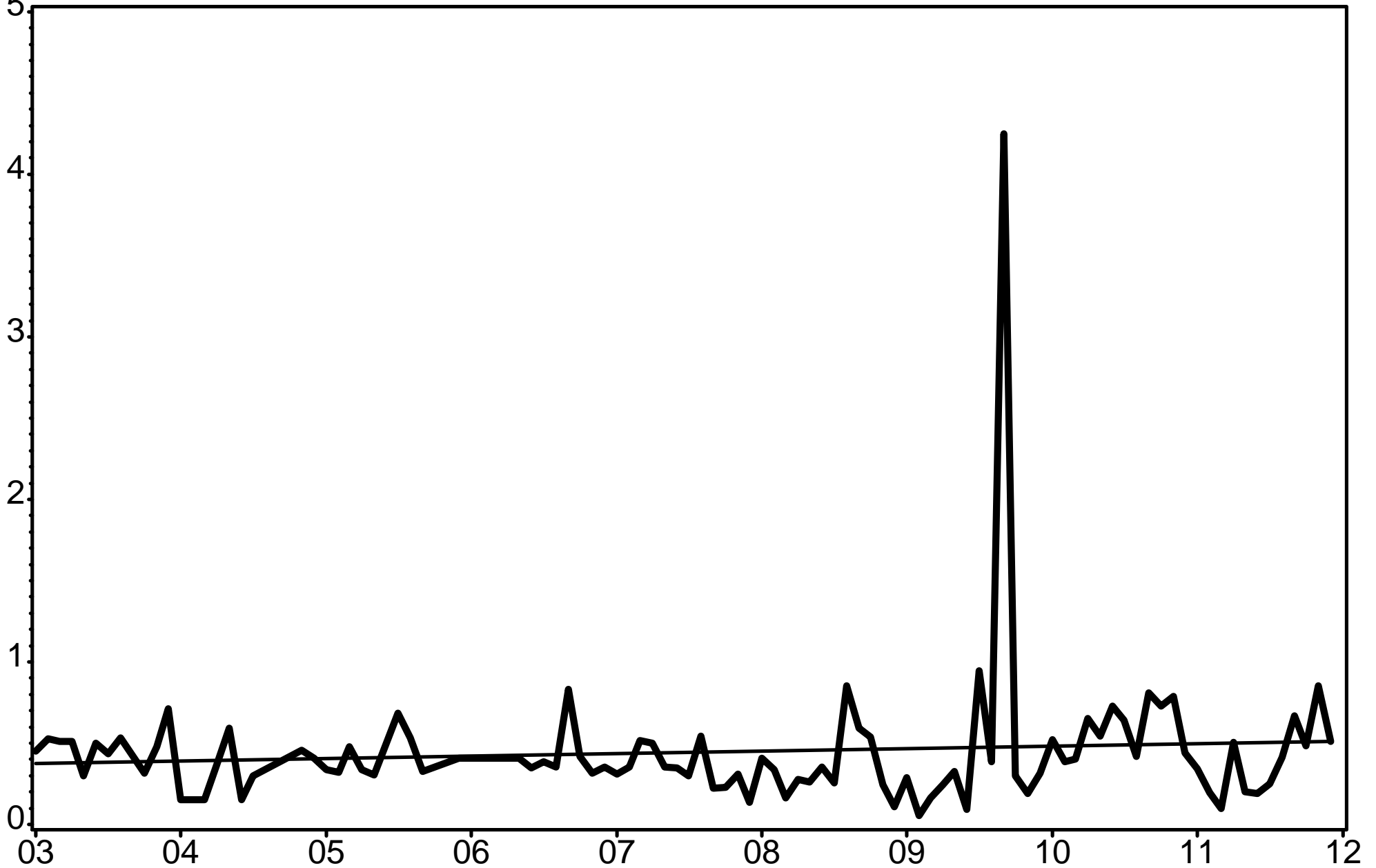
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1611

Monthly Data Time Series
for Surface Total Nitrogen in San Carlos Bay
Not Adjusted for Seasonal Medians

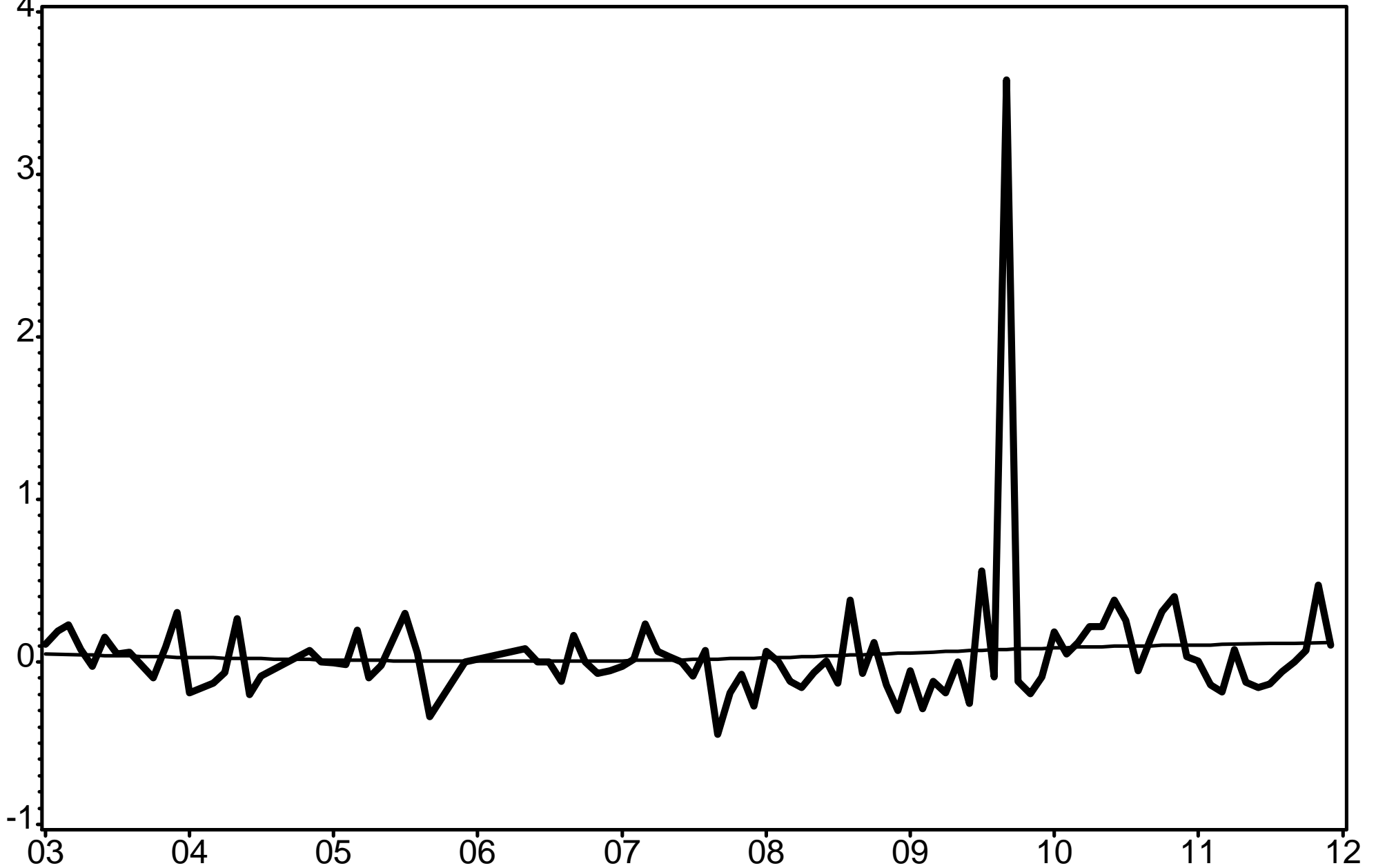
TN_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1612

Monthly Data Time Series
for Surface Total Nitrogen in San Carlos Bay
Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

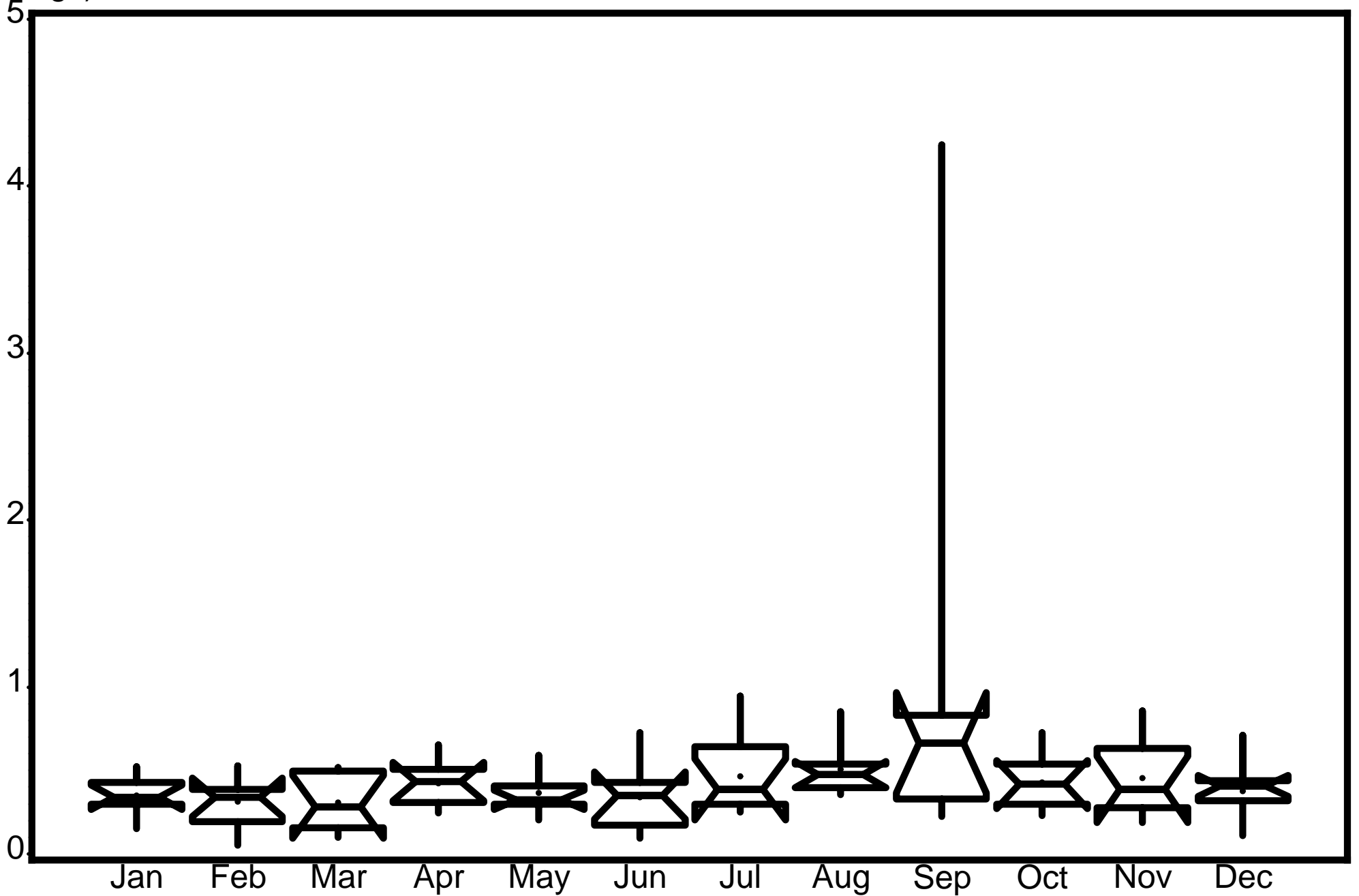


San Carlos Bay Trends Appendix - Display 1613

Seasonal Univariate Statistics

for Surface Total Nitrogen in San Carlos Bay

TN_mgl
(mg/l)



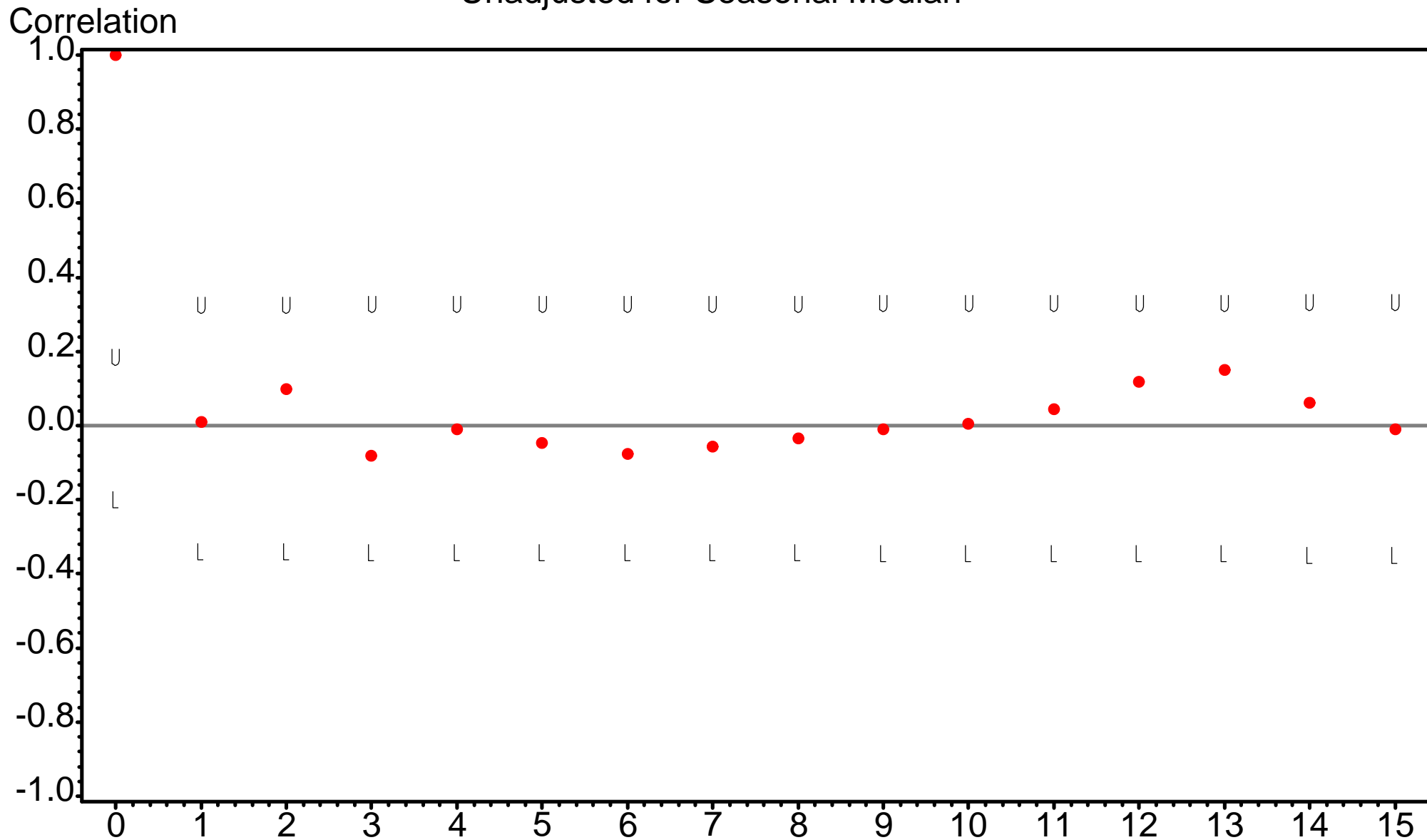
San Carlos Bay Trends Appendix - Display 1614
Autocorrelation Statistics for Surface Total Nitrogen in San Carlos Bay

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.011	0.167	0.333	-0.333
2	0.099	0.167	0.333	-0.333
3	-0.081	0.167	0.334	-0.334
4	-0.011	0.168	0.335	-0.335
5	-0.046	0.168	0.335	-0.335
6	-0.077	0.168	0.335	-0.335
7	-0.057	0.168	0.336	-0.336
8	-0.035	0.168	0.336	-0.336
9	-0.010	0.168	0.337	-0.337
10	0.006	0.168	0.337	-0.337
11	0.045	0.168	0.337	-0.337
12	0.119	0.168	0.337	-0.337
13	0.150	0.169	0.338	-0.338
14	0.061	0.170	0.341	-0.341
15	-0.010	0.171	0.341	-0.341

San Carlos Bay Trends Appendix - Display 1615

Correlogram for Surface Total Nitrogen in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1616
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.005	0.947	0.947	0

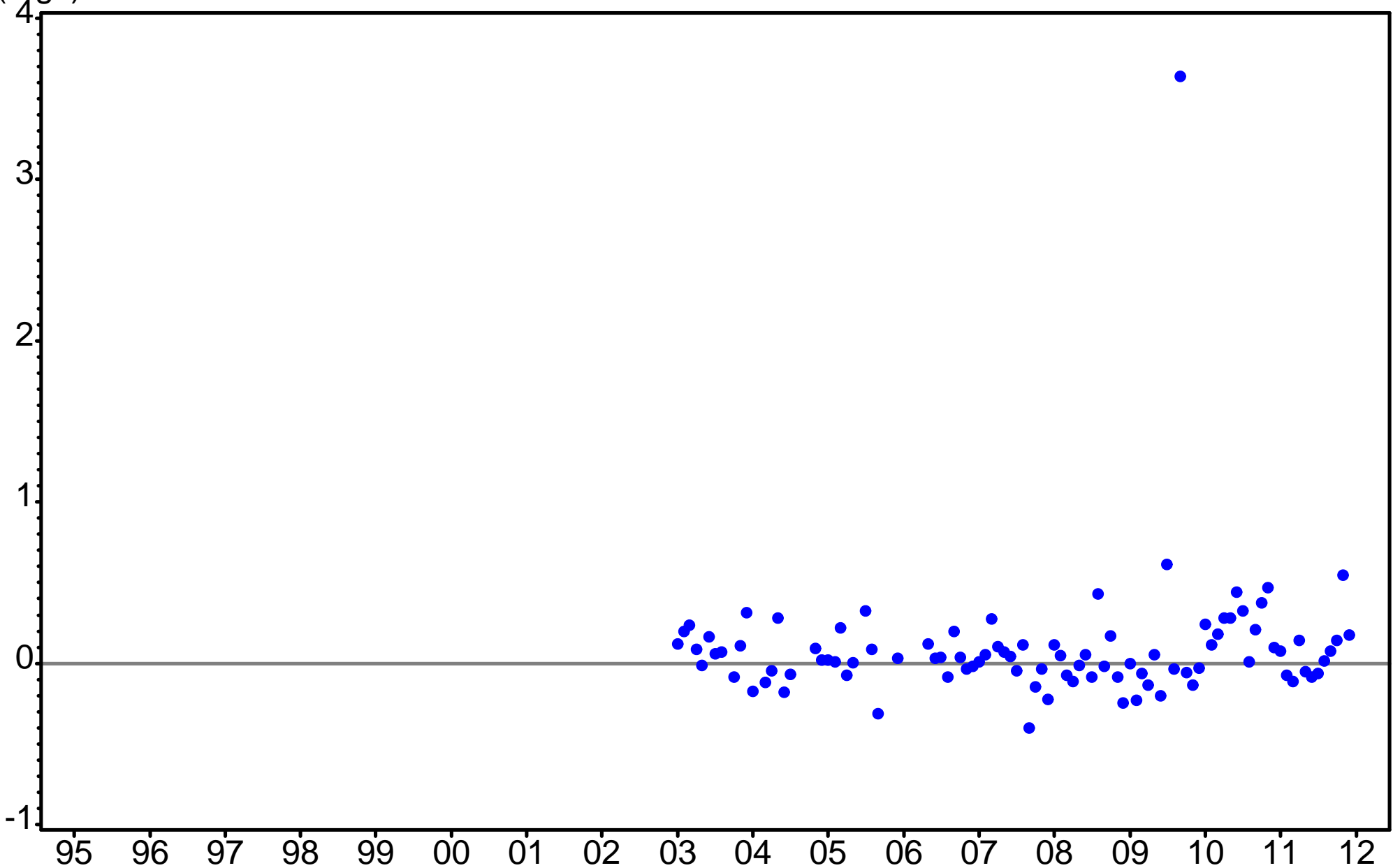
San Carlos Bay Trends Appendix - Display 1617
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.076696	0.37676	0.59218	-.00766667

San Carlos Bay Trends Appendix - Display 1618

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

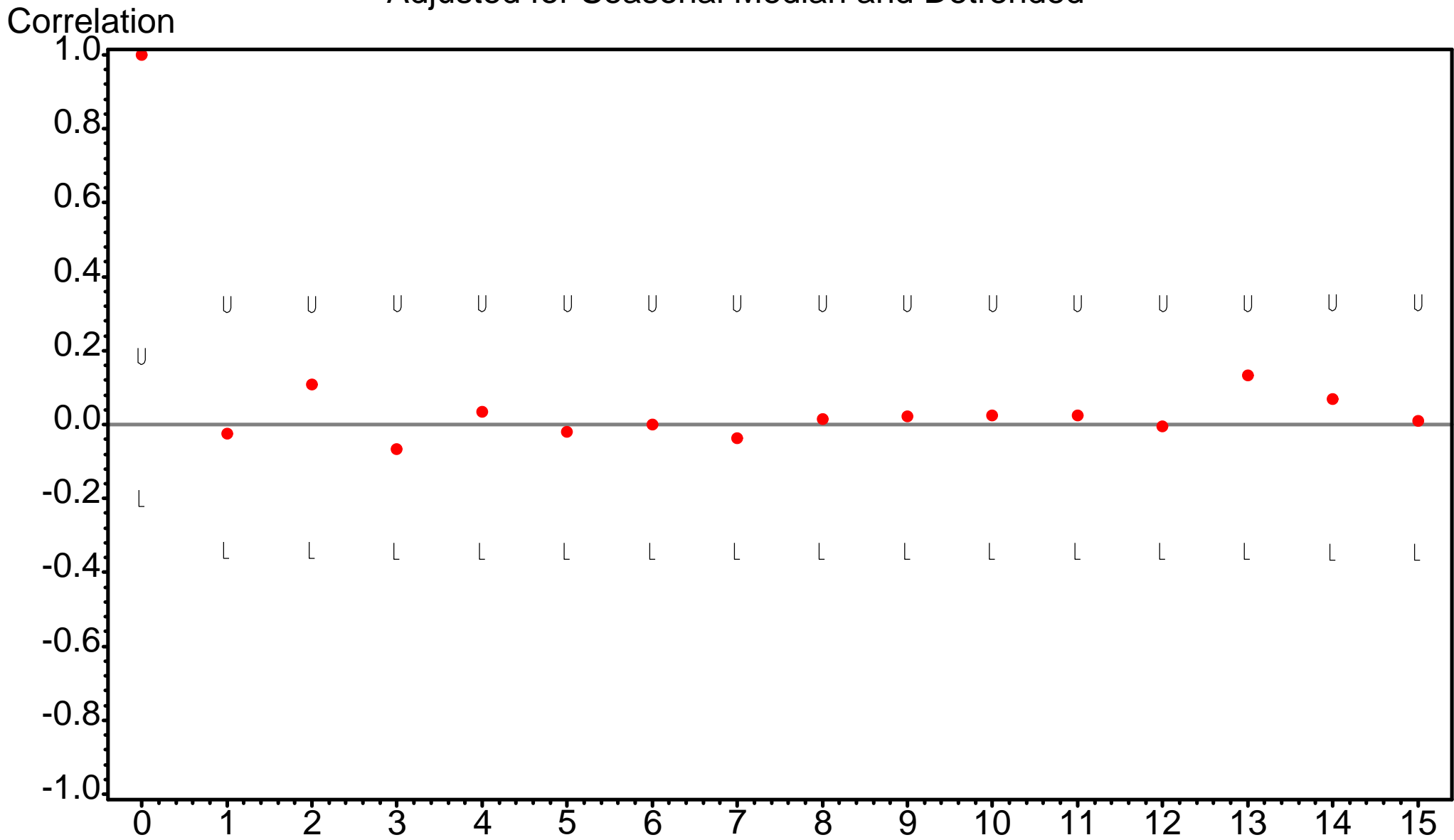
San Carlos Bay Trends Appendix - Display 1619
Autocorrelation Statistics for Surface Total Nitrogen in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.024	0.167	0.333	-0.333
2	0.109	0.167	0.333	-0.333
3	-0.067	0.167	0.335	-0.335
4	0.035	0.168	0.335	-0.335
5	-0.020	0.168	0.335	-0.335
6	0.000	0.168	0.335	-0.335
7	-0.036	0.168	0.335	-0.335
8	0.014	0.168	0.336	-0.336
9	0.023	0.168	0.336	-0.336
10	0.024	0.168	0.336	-0.336
11	0.024	0.168	0.336	-0.336
12	-0.005	0.168	0.336	-0.336
13	0.133	0.168	0.336	-0.336
14	0.069	0.169	0.338	-0.338
15	0.010	0.169	0.338	-0.338

San Carlos Bay Trends Appendix - Display 1620

Correlogram for Surface Total Nitrogen in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

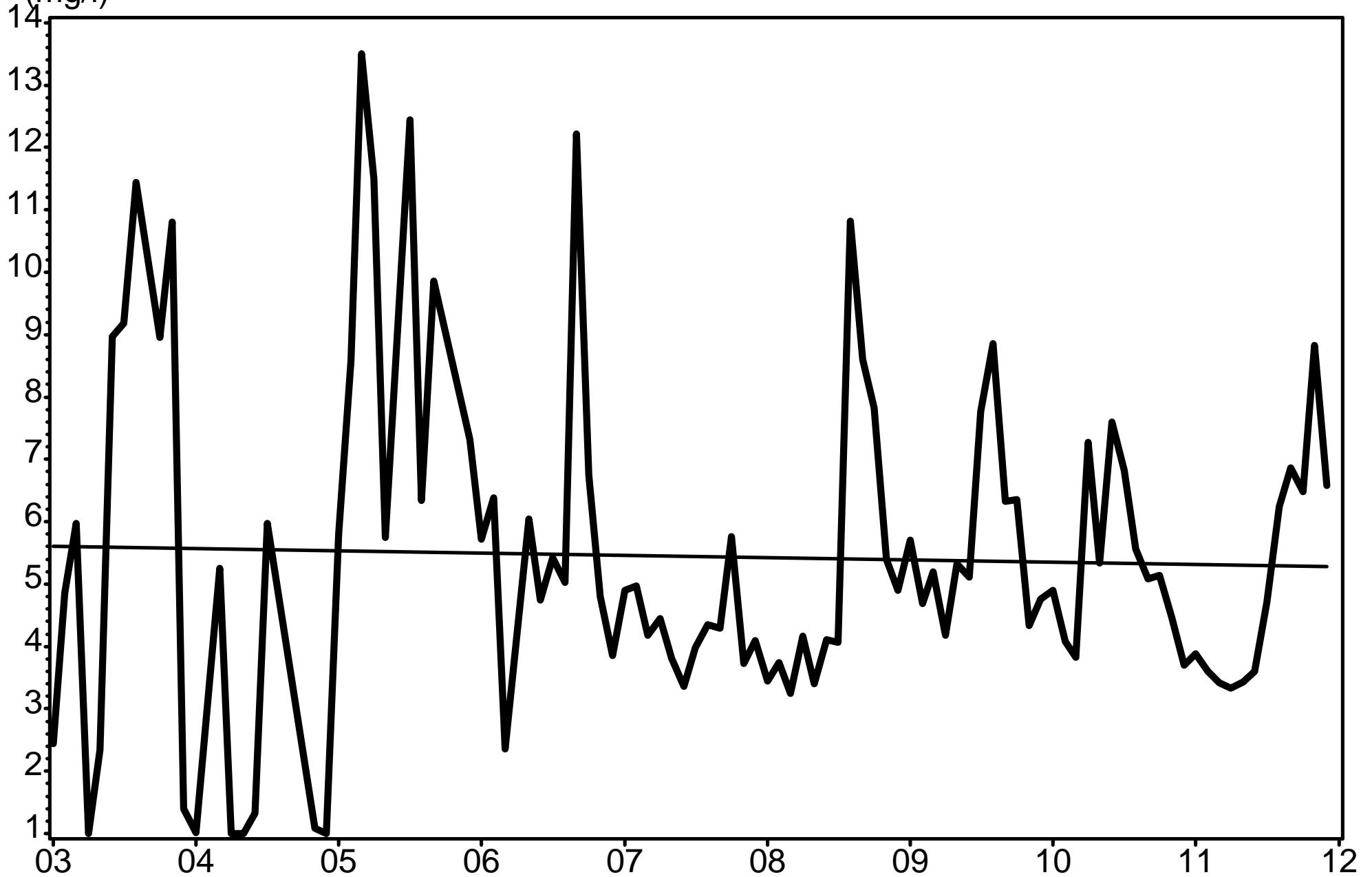
San Carlos Bay Trends Appendix - Display 1621

Monthly Data Time Series

for Surface Total Organic Carbon in San Carlos Bay

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



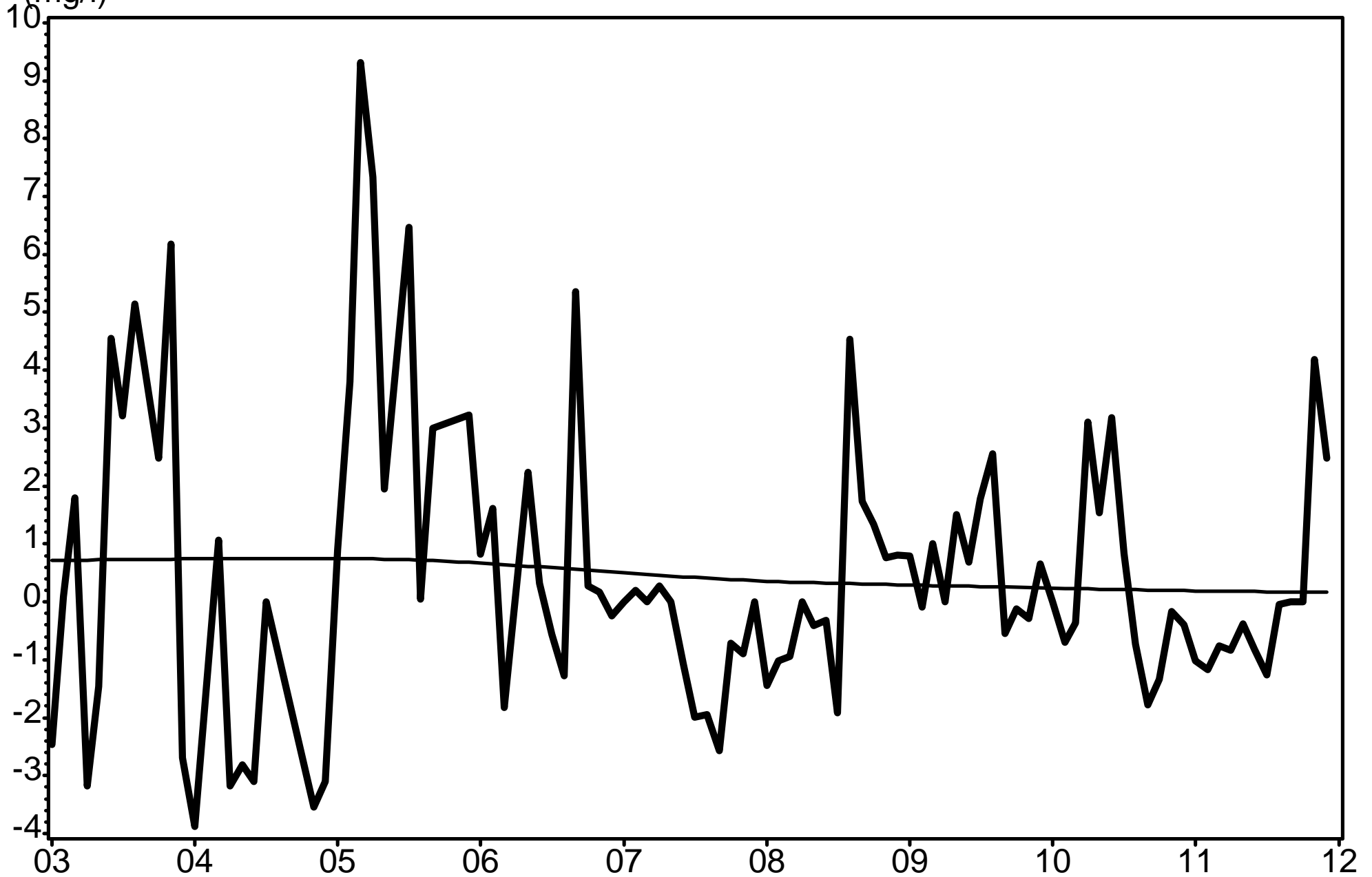
San Carlos Bay Trends Appendix - Display 1622

Monthly Data Time Series

for Surface Total Organic Carbon in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

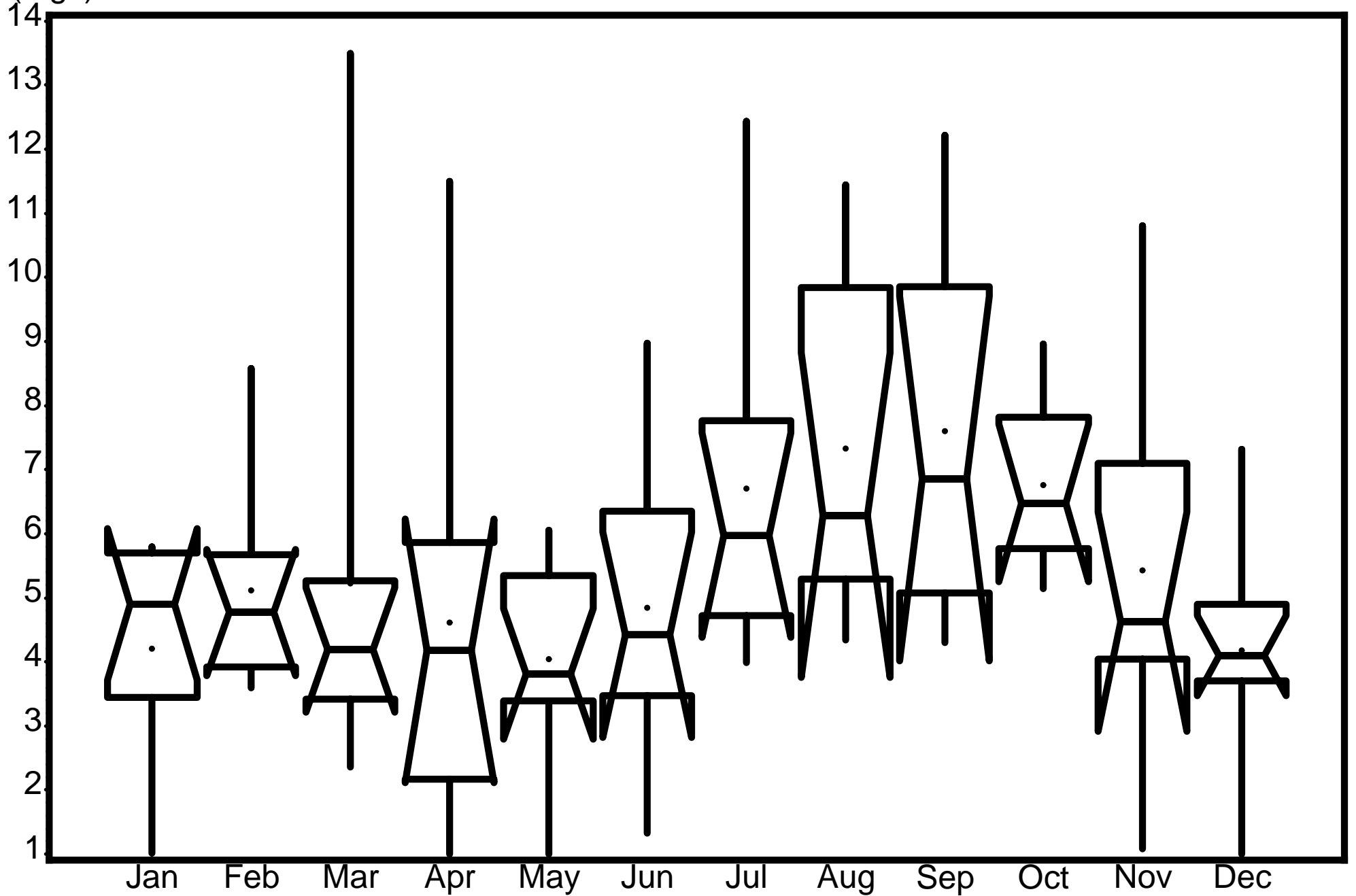


San Carlos Bay Trends Appendix - Display 1623

Seasonal Univariate Statistics

for Surface Total Organic Carbon in San Carlos Bay

TOC_mgl
(mg/l)



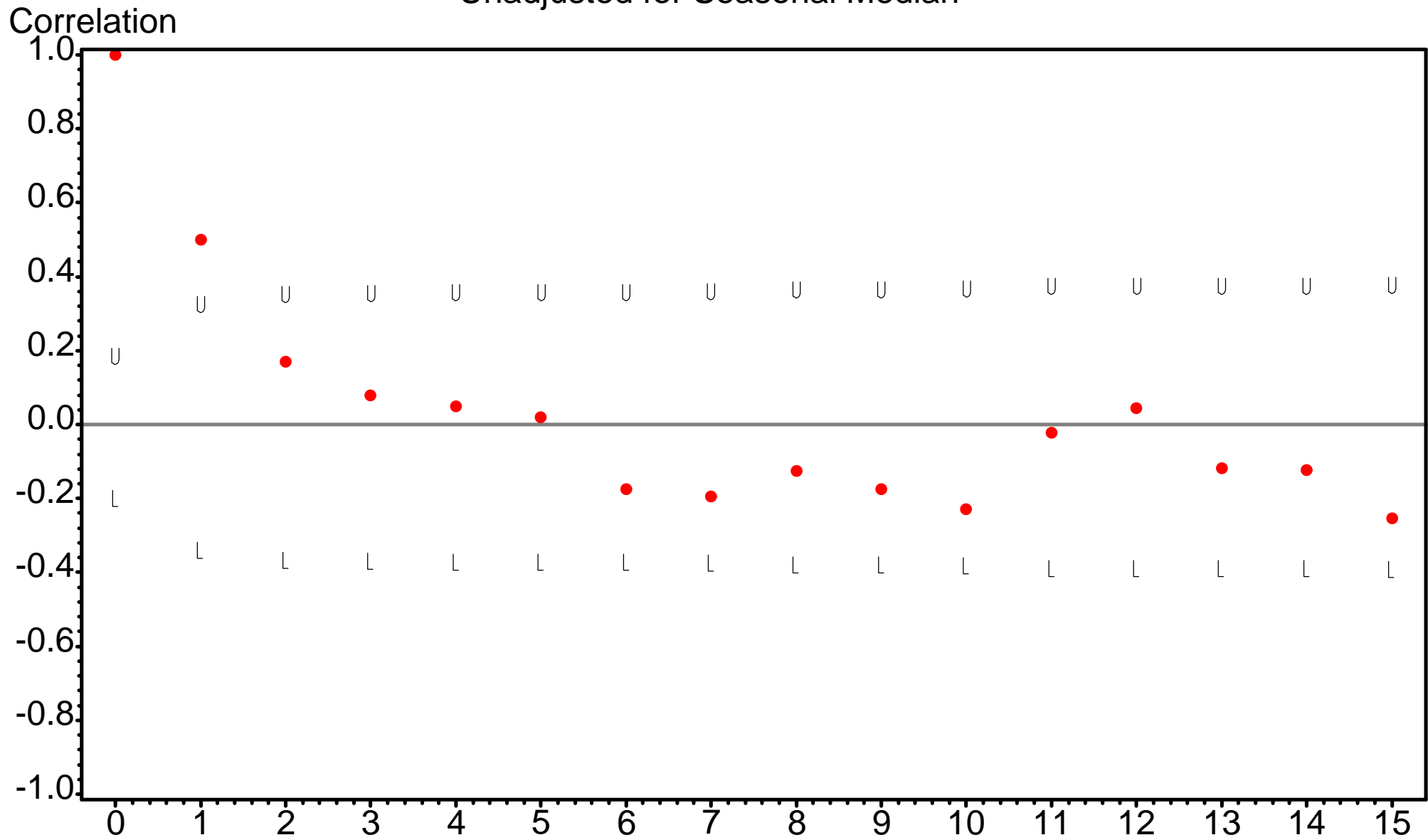
San Carlos Bay Trends Appendix - Display 1624
Autocorrelation Statistics for Surface Total Organic Carbon in San Carlos Bay

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.500	0.167	0.333	-0.333
2	0.171	0.180	0.360	-0.360
3	0.079	0.181	0.363	-0.363
4	0.050	0.182	0.364	-0.364
5	0.019	0.182	0.364	-0.364
6	-0.174	0.182	0.364	-0.364
7	-0.195	0.184	0.367	-0.367
8	-0.125	0.185	0.371	-0.371
9	-0.175	0.186	0.372	-0.372
10	-0.228	0.188	0.375	-0.375
11	-0.021	0.190	0.381	-0.381
12	0.045	0.190	0.381	-0.381
13	-0.117	0.190	0.381	-0.381
14	-0.123	0.191	0.382	-0.382
15	-0.254	0.192	0.384	-0.384

San Carlos Bay Trends Appendix - Display 1625

Correlogram for Surface Total Organic Carbon in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1626
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.016	0.821	0.821	-0.018

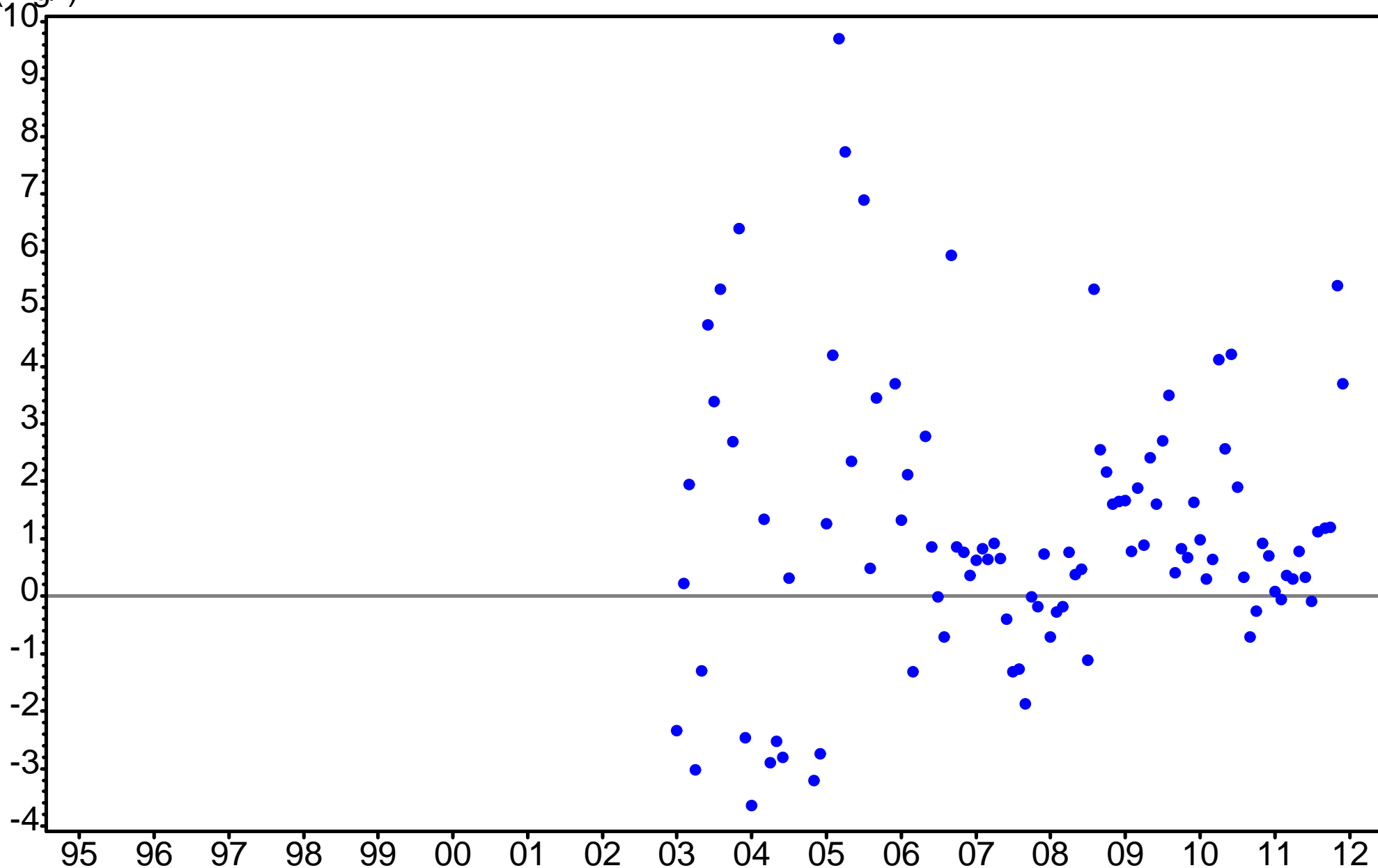
San Carlos Bay Trends Appendix - Display 1627
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.096685	0.25021	0.49182	-0.12307

San Carlos Bay Trends Appendix - Display 1628

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

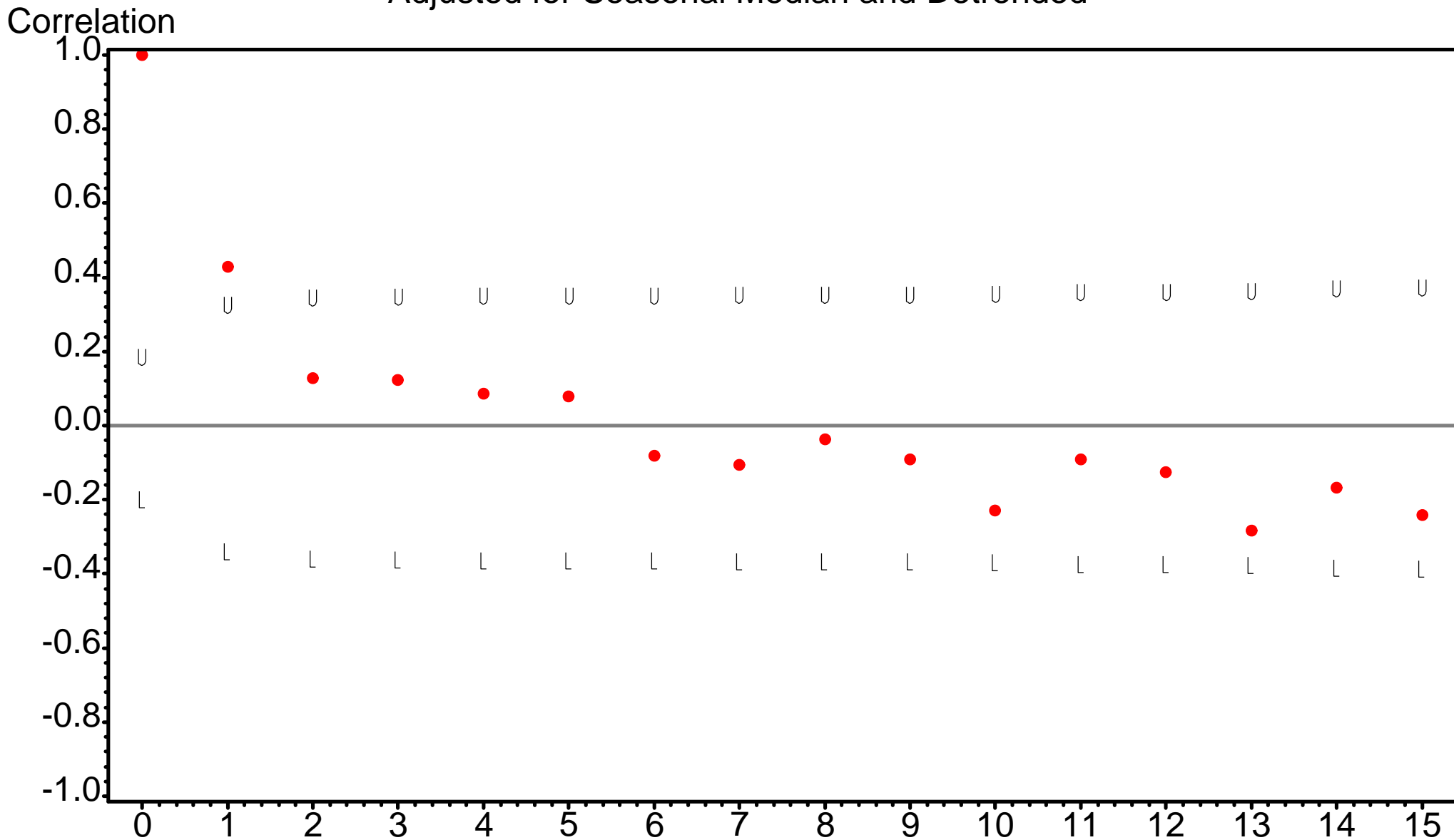
San Carlos Bay Trends Appendix - Display 1629
 Autocorrelation Statistics for Surface Total Organic Carbon in San Carlos Bay
 Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.429	0.167	0.333	-0.333
2	0.129	0.177	0.353	-0.353
3	0.124	0.177	0.355	-0.355
4	0.086	0.178	0.357	-0.357
5	0.080	0.179	0.357	-0.357
6	-0.081	0.179	0.358	-0.358
7	-0.105	0.179	0.359	-0.359
8	-0.038	0.180	0.360	-0.360
9	-0.091	0.180	0.360	-0.360
10	-0.230	0.180	0.361	-0.361
11	-0.092	0.183	0.366	-0.366
12	-0.125	0.183	0.367	-0.367
13	-0.283	0.184	0.369	-0.369
14	-0.167	0.188	0.377	-0.377
15	-0.241	0.190	0.379	-0.379

San Carlos Bay Trends Appendix - Display 1630

Correlogram for Surface Total Organic Carbon in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

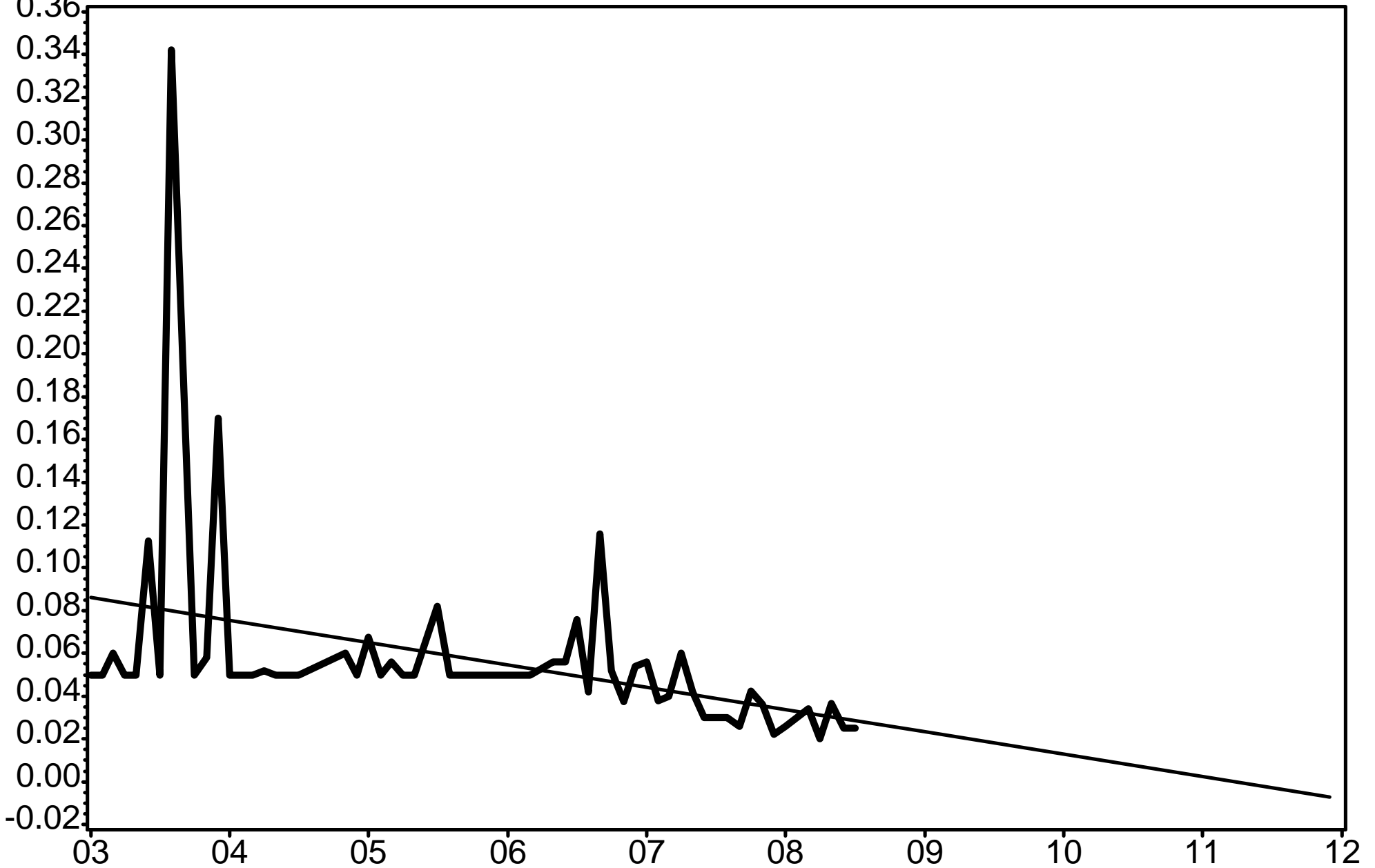
San Carlos Bay Trends Appendix - Display 1631

Monthly Data Time Series

for Surface Total Phosphorous in San Carlos Bay

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



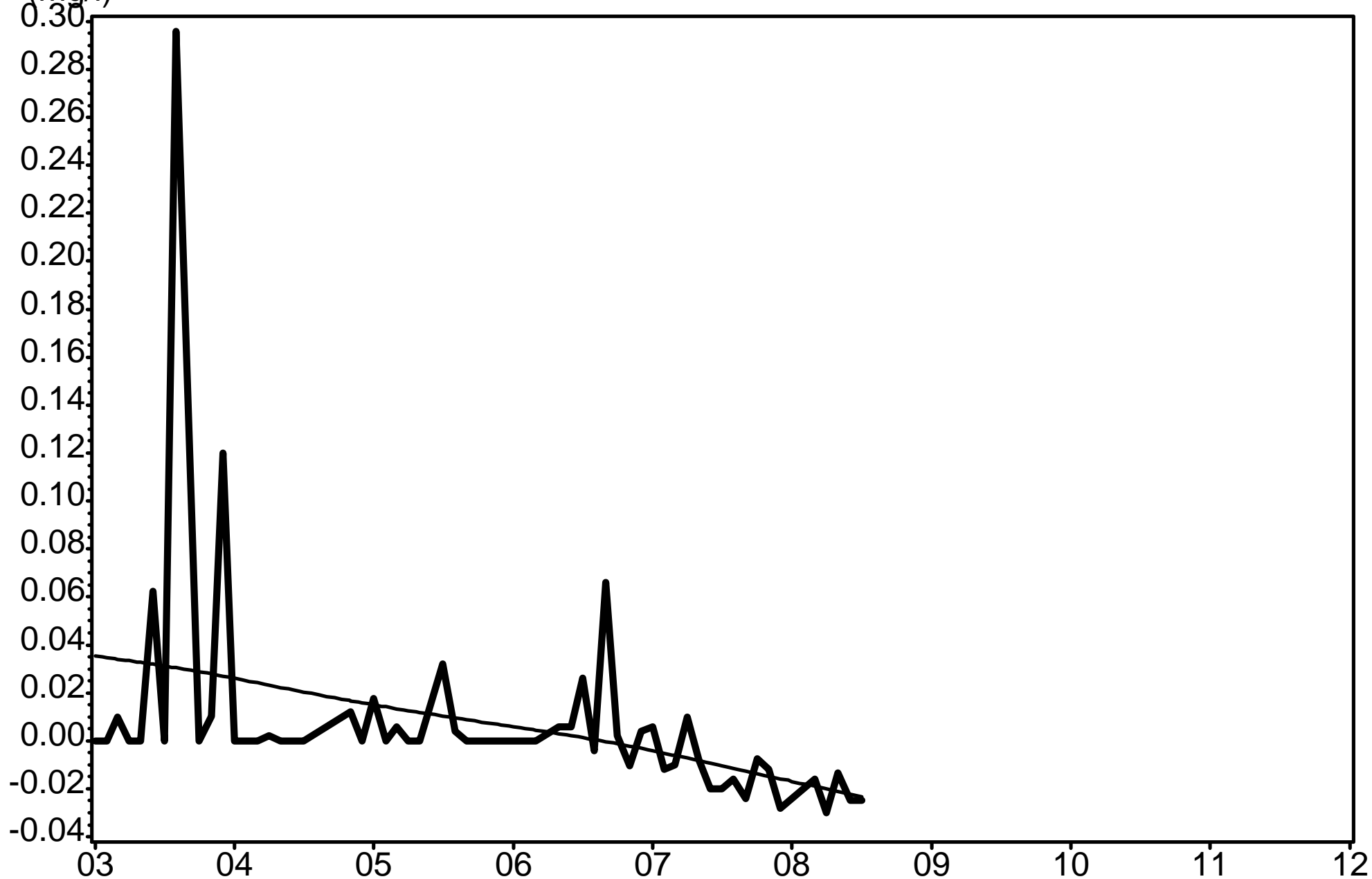
San Carlos Bay Trends Appendix - Display 1632

Monthly Data Time Series

for Surface Total Phosphorous in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

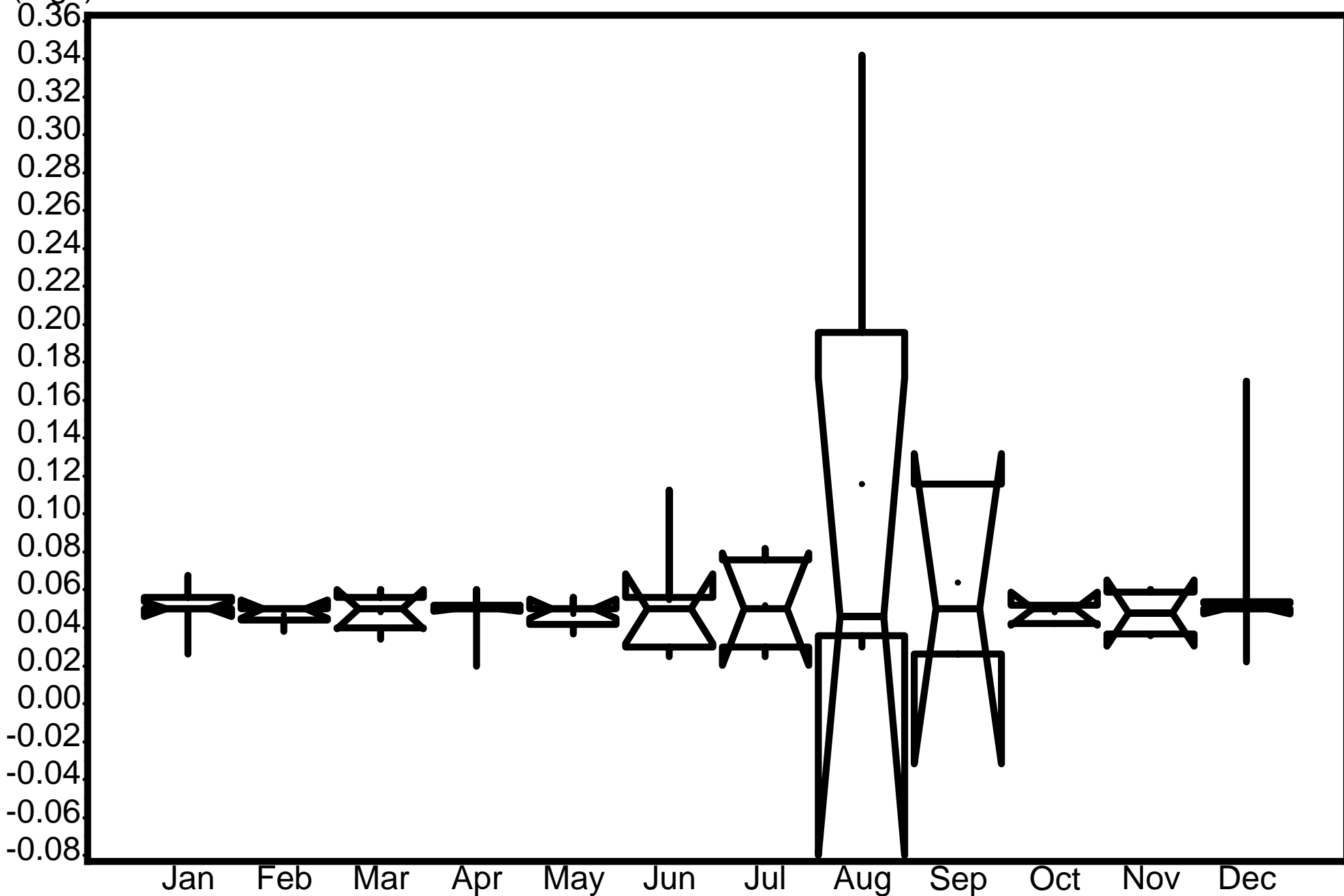


San Carlos Bay Trends Appendix - Display 1633

Seasonal Univariate Statistics

for Surface Total Phosphorous in San Carlos Bay

TP_mgl
(mg/l)



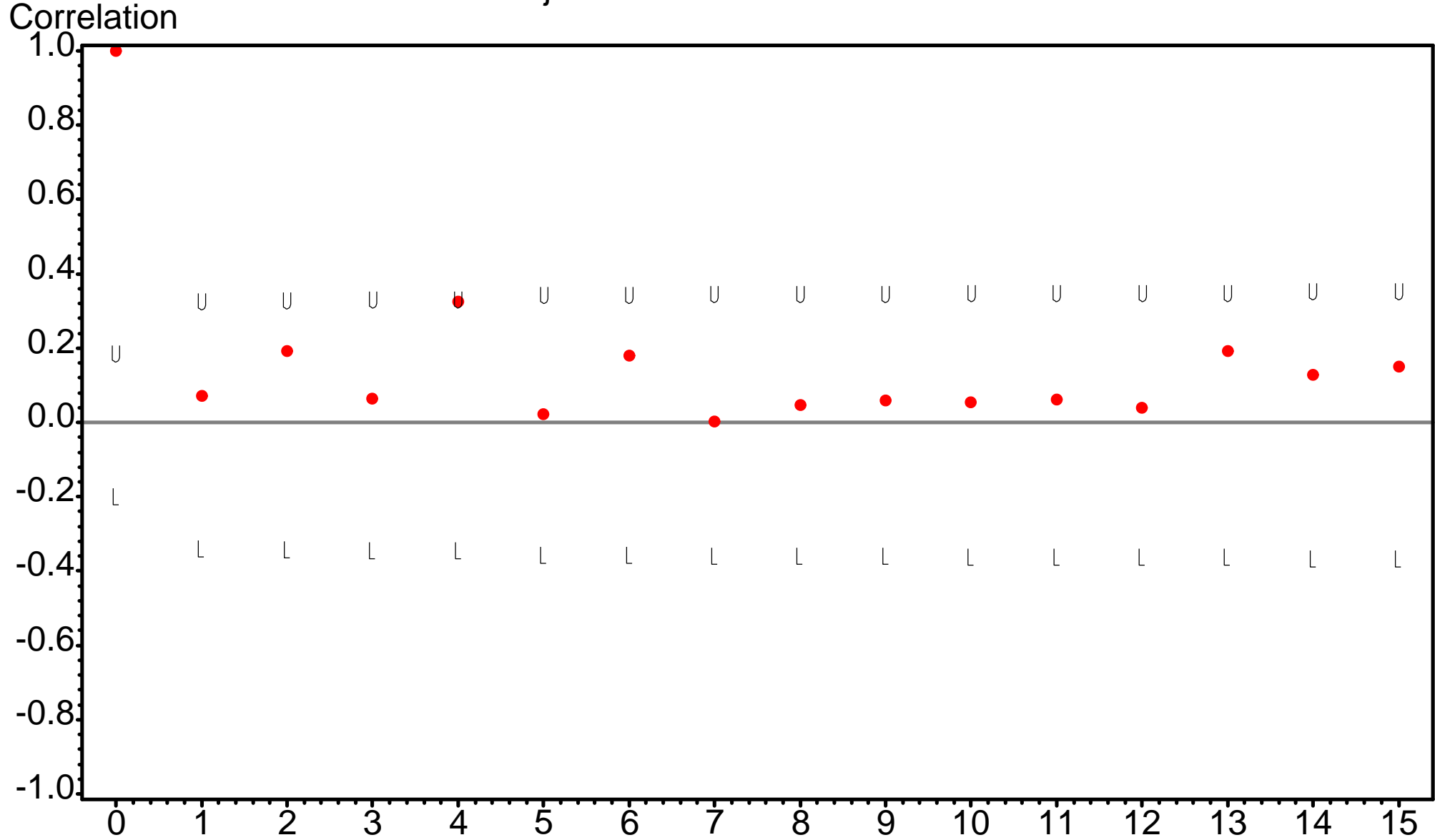
San Carlos Bay Trends Appendix - Display 1634
Autocorrelation Statistics for Surface Total Phosphorous in San Carlos Bay

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.071	0.167	0.333	-0.333
2	0.192	0.167	0.334	-0.334
3	0.065	0.169	0.338	-0.338
4	0.326	0.169	0.338	-0.338
5	0.021	0.175	0.350	-0.350
6	0.179	0.175	0.350	-0.350
7	0.002	0.177	0.353	-0.353
8	0.046	0.177	0.353	-0.353
9	0.060	0.177	0.353	-0.353
10	0.055	0.177	0.354	-0.354
11	0.061	0.177	0.354	-0.354
12	0.040	0.177	0.355	-0.355
13	0.192	0.177	0.355	-0.355
14	0.128	0.179	0.359	-0.359
15	0.151	0.180	0.360	-0.360

San Carlos Bay Trends Appendix - Display 1635

Correlogram for Surface Total Phosphorous in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1636
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.418	0	0	-.005

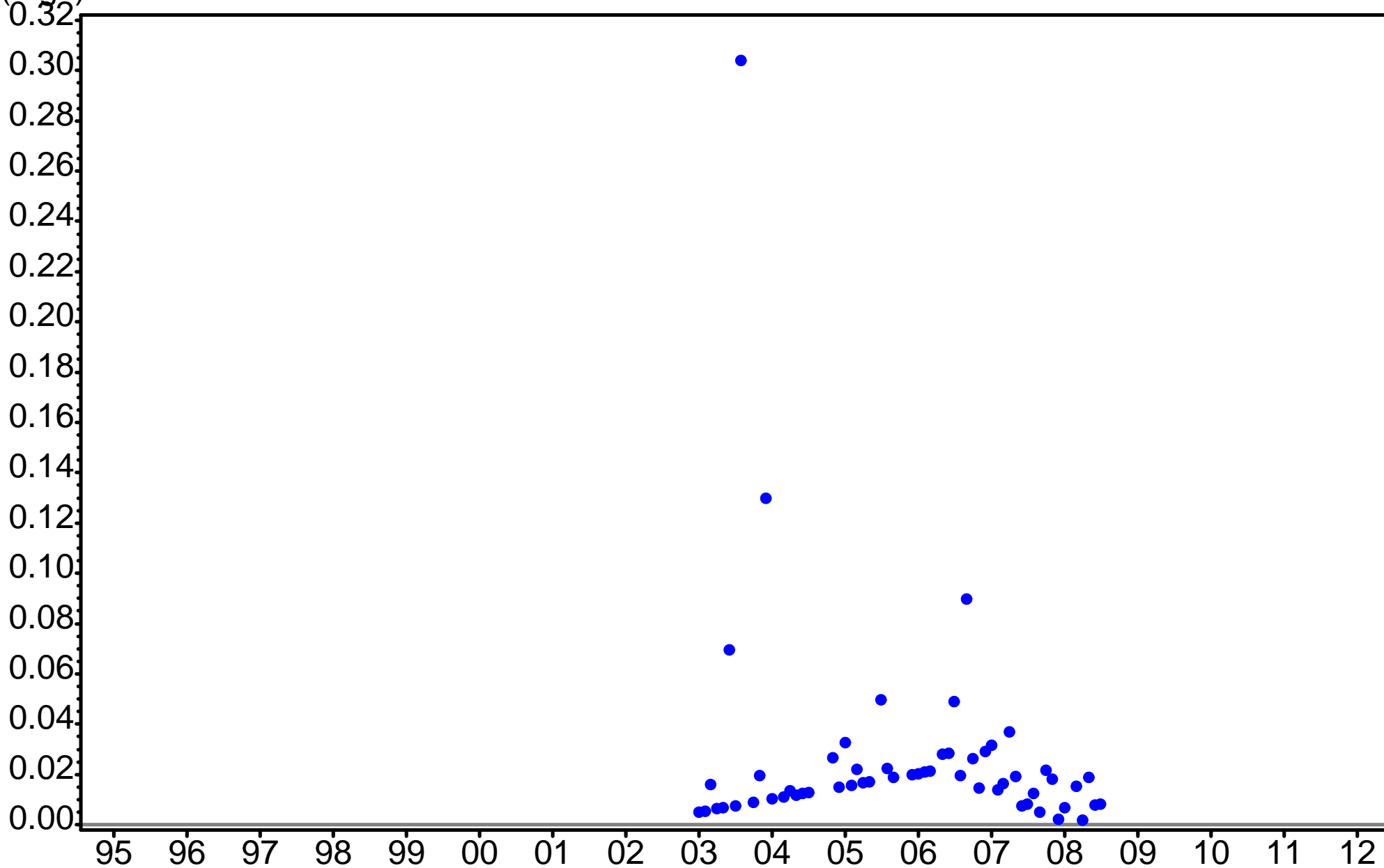
San Carlos Bay Trends Appendix - Display 1637
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.48246	.000061881	0.050894	-.0051

San Carlos Bay Trends Appendix - Display 1638

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(mg/l)



Zero Reference Line Shown

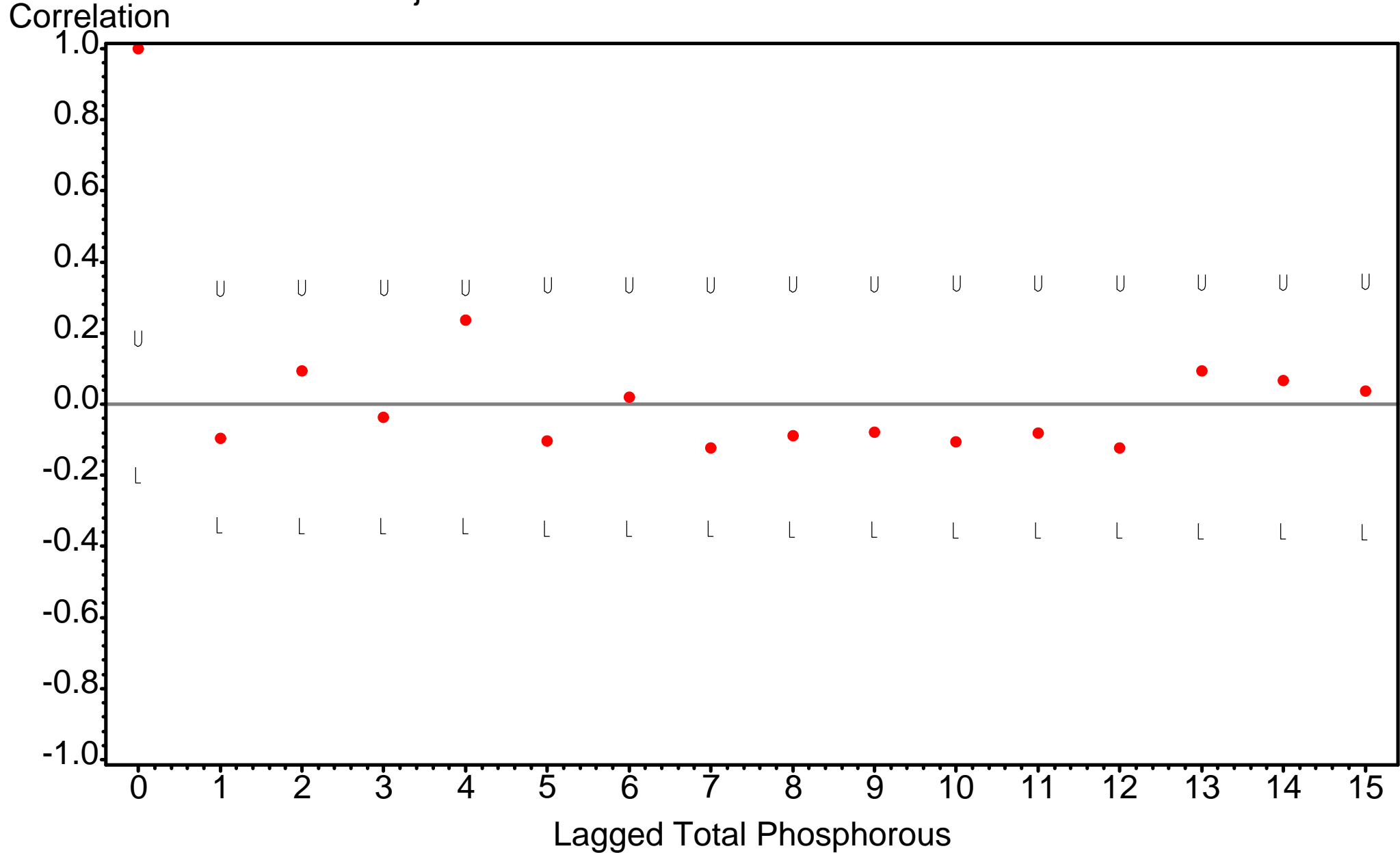
San Carlos Bay Trends Appendix - Display 1639
Autocorrelation Statistics for Surface Total Phosphorous in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.095	0.167	0.333	-0.333
2	0.094	0.167	0.334	-0.334
3	-0.038	0.168	0.335	-0.335
4	0.236	0.168	0.335	-0.335
5	-0.104	0.171	0.342	-0.342
6	0.019	0.171	0.343	-0.343
7	-0.122	0.171	0.343	-0.343
8	-0.089	0.172	0.344	-0.344
9	-0.078	0.173	0.345	-0.345
10	-0.107	0.173	0.346	-0.346
11	-0.081	0.174	0.347	-0.347
12	-0.122	0.174	0.348	-0.348
13	0.093	0.175	0.349	-0.349
14	0.066	0.175	0.350	-0.350
15	0.037	0.175	0.351	-0.351

San Carlos Bay Trends Appendix - Display 1640

Correlogram for Surface Total Phosphorous in San Carlos Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

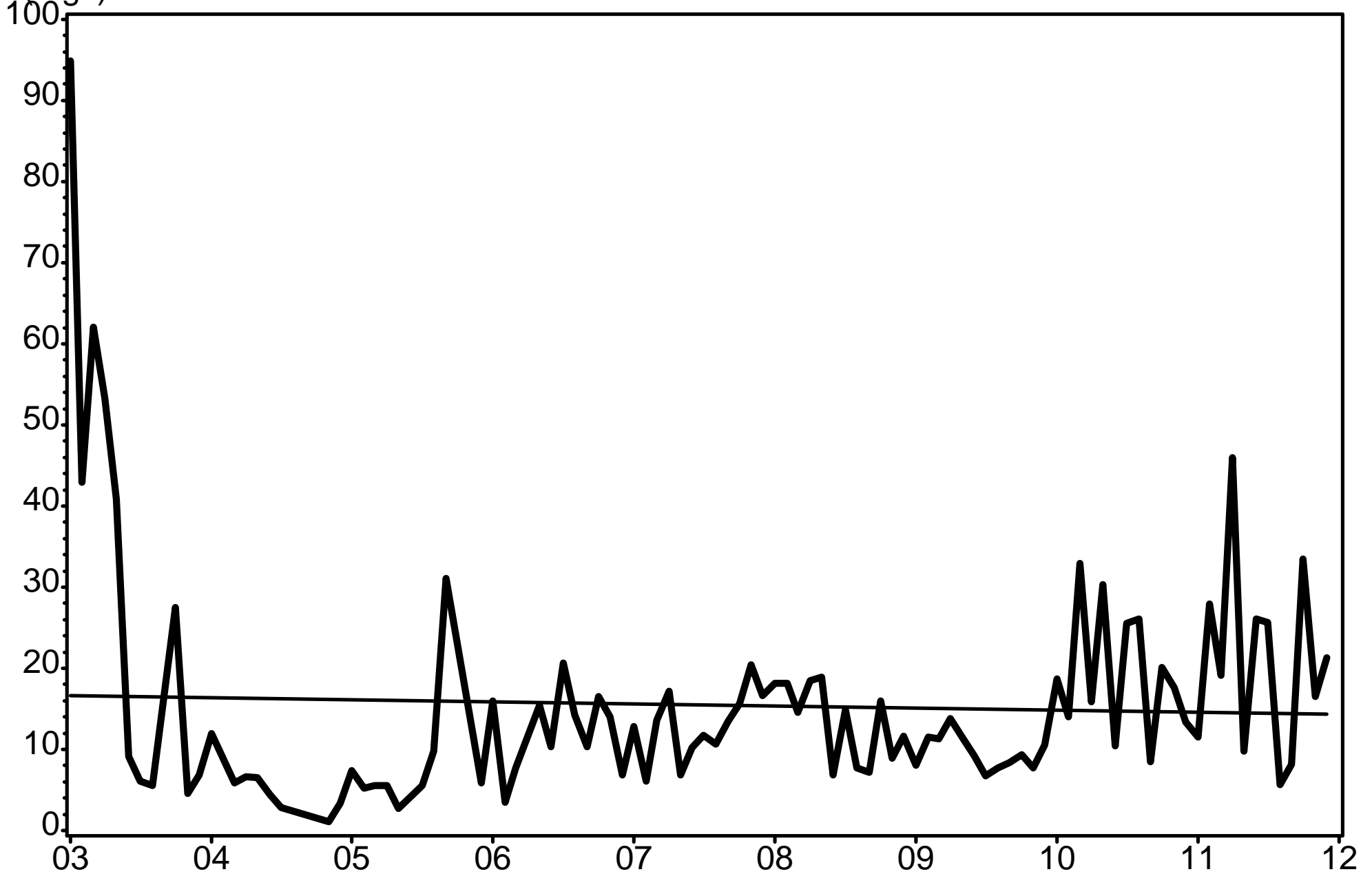
San Carlos Bay Trends Appendix - Display 1641

Monthly Data Time Series

for Surface Total Suspended Solids in San Carlos Bay

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



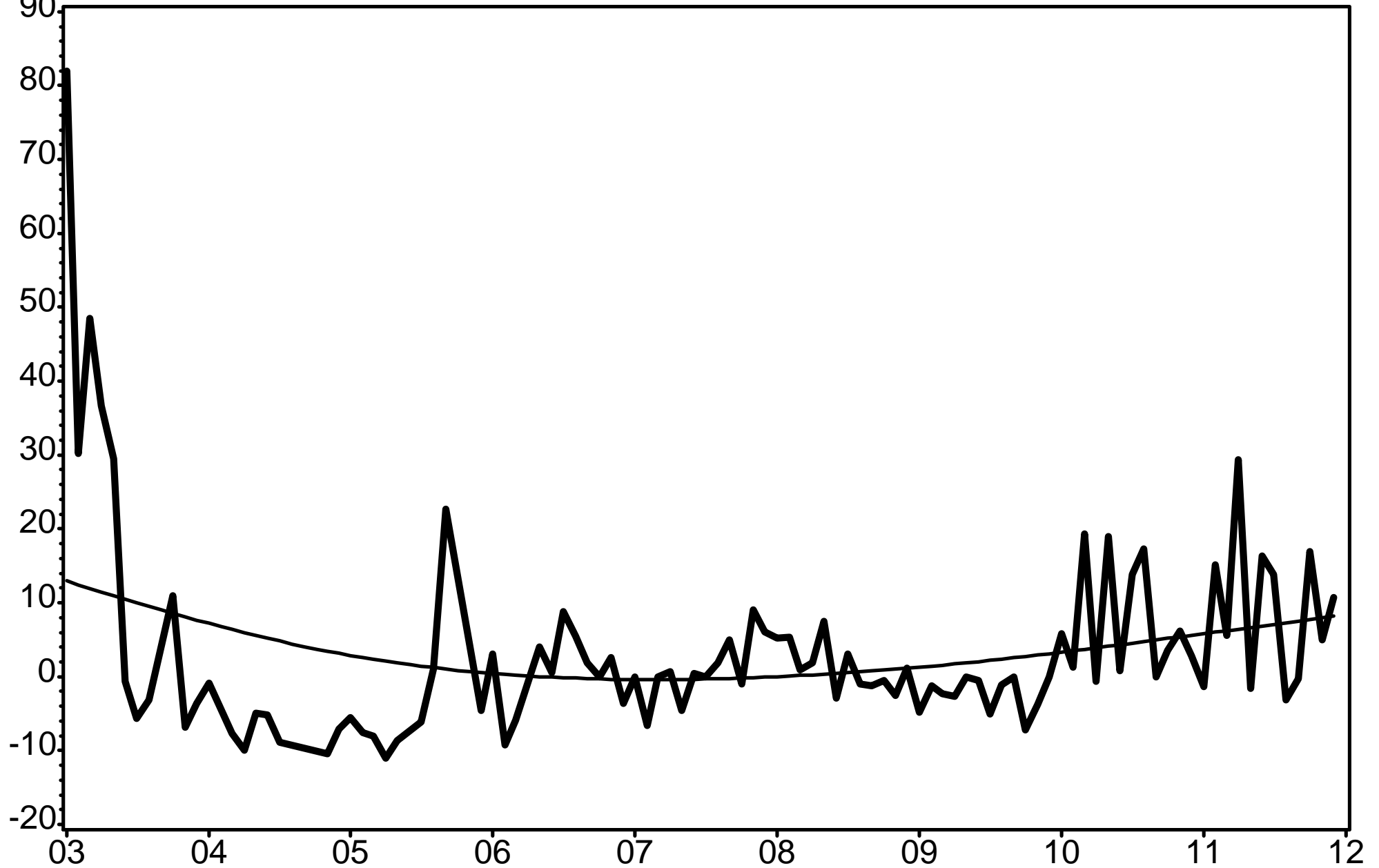
San Carlos Bay Trends Appendix - Display 1642

Monthly Data Time Series

for Surface Total Suspended Solids in San Carlos Bay

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

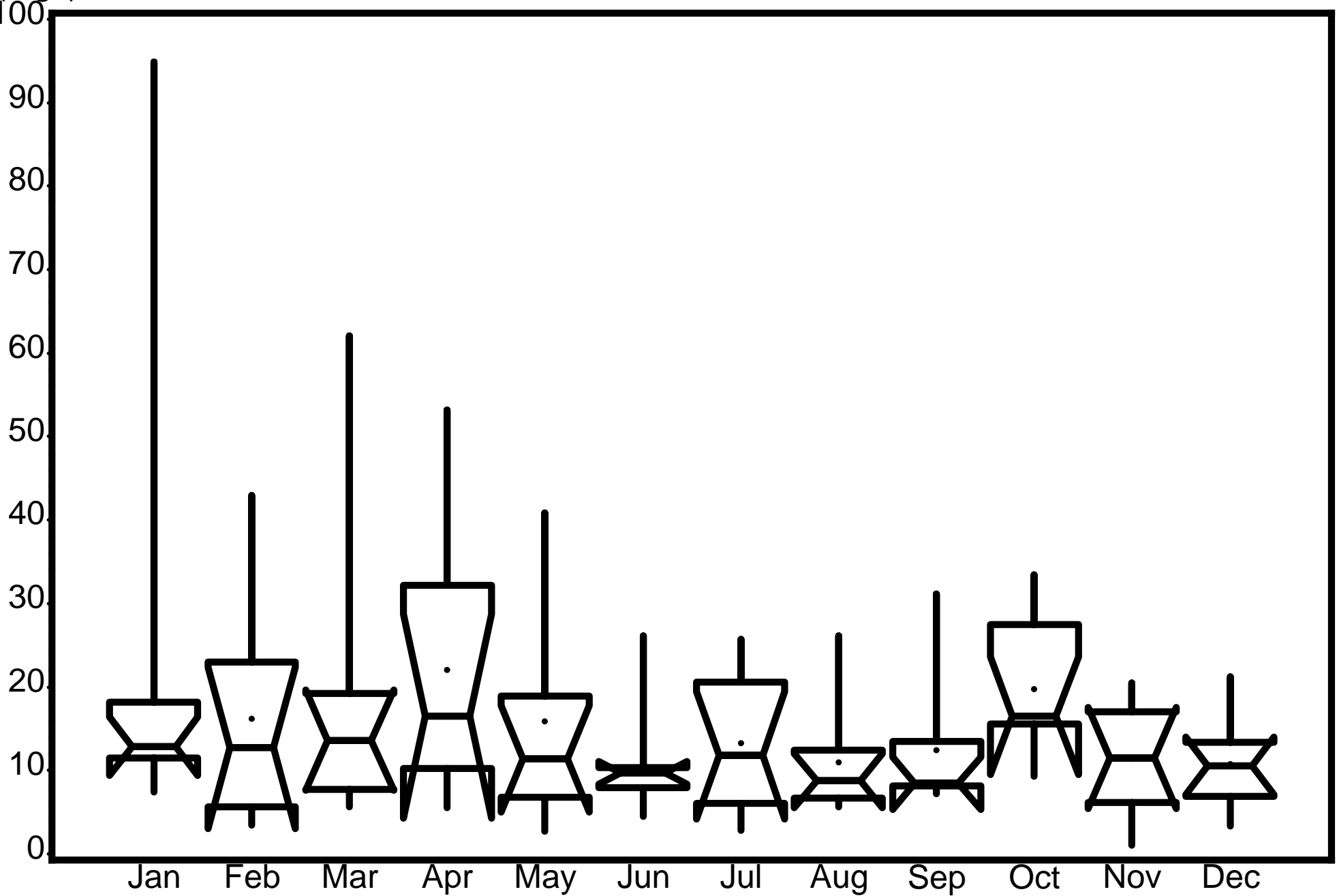


San Carlos Bay Trends Appendix - Display 1643

Seasonal Univariate Statistics

for Surface Total Suspended Solids in San Carlos Bay

TSS_mgl
(mg/l)



San Carlos Bay Trends Appendix - Display 1644

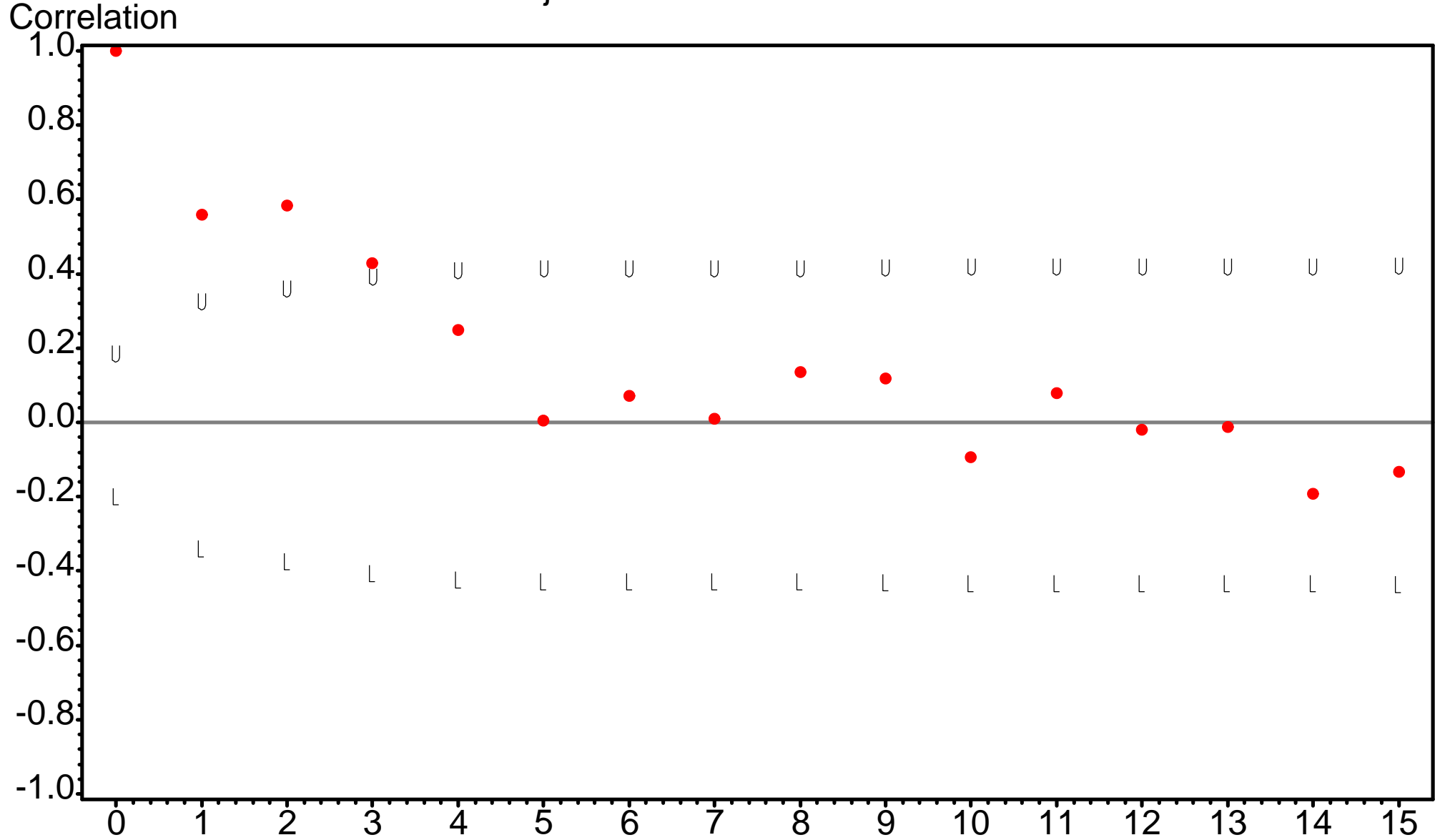
Autocorrelation Statistics for Surface Total Suspended Solids in San Carlos Bay

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.559	0.167	0.333	-0.333
2	0.583	0.183	0.366	-0.366
3	0.428	0.200	0.399	-0.399
4	0.248	0.208	0.416	-0.416
5	0.005	0.211	0.421	-0.421
6	0.072	0.211	0.421	-0.421
7	0.011	0.211	0.422	-0.422
8	0.136	0.211	0.422	-0.422
9	0.118	0.212	0.423	-0.423
10	-0.094	0.212	0.425	-0.425
11	0.079	0.213	0.425	-0.425
12	-0.019	0.213	0.426	-0.426
13	-0.012	0.213	0.426	-0.426
14	-0.192	0.213	0.426	-0.426
15	-0.133	0.215	0.429	-0.429

San Carlos Bay Trends Appendix - Display 1645

Correlogram for Surface Total Suspended Solids in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1646
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in San Carlos Bay
Unadjusted for Seasonal Medians

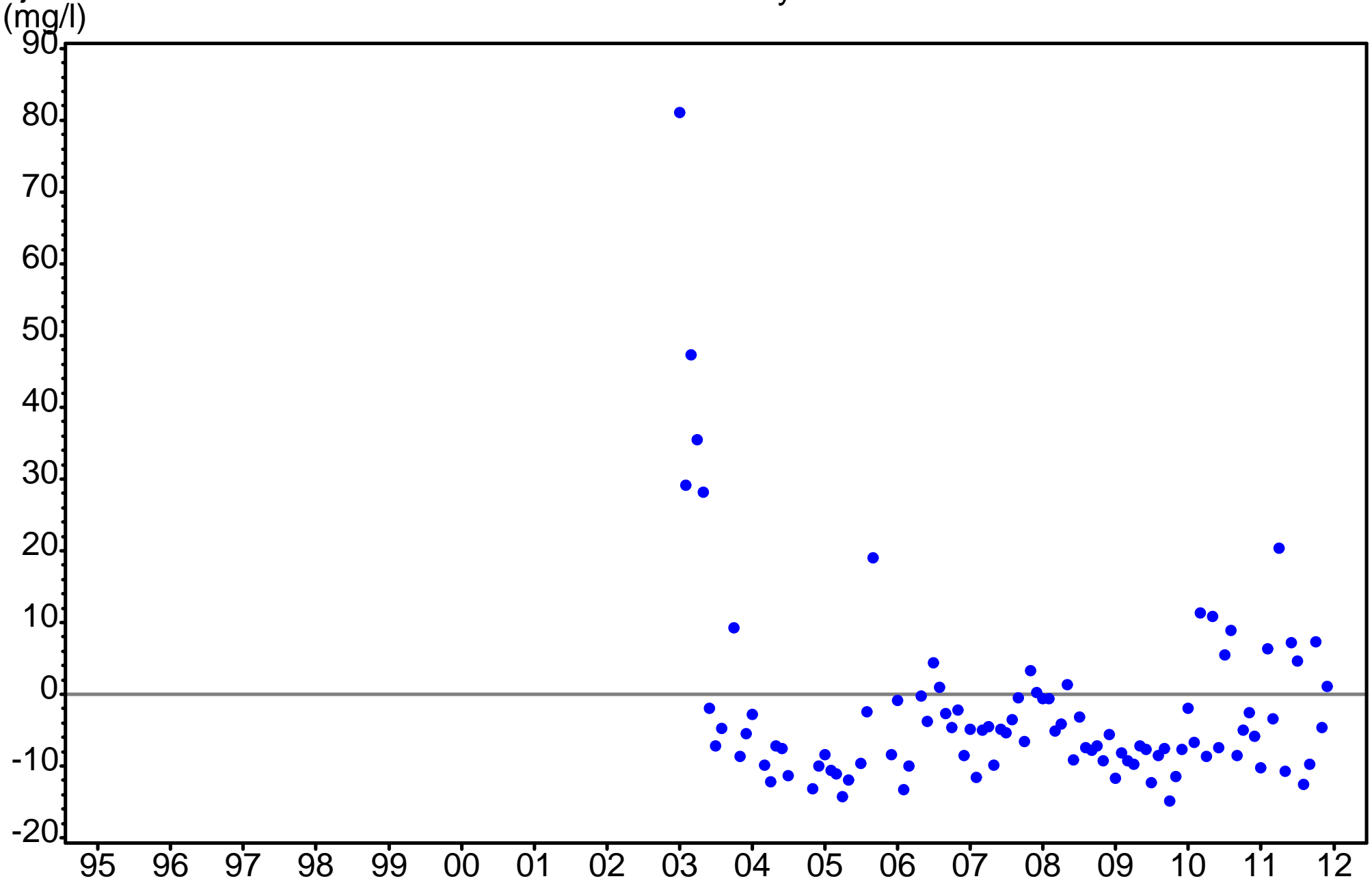
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.225	.001	.001	0.931

San Carlos Bay Trends Appendix - Display 1647
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.23204	.00502551	0.14809	0.977

San Carlos Bay Trends Appendix - Display 1648

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted
San Carlos Bay



Zero Reference Line Shown

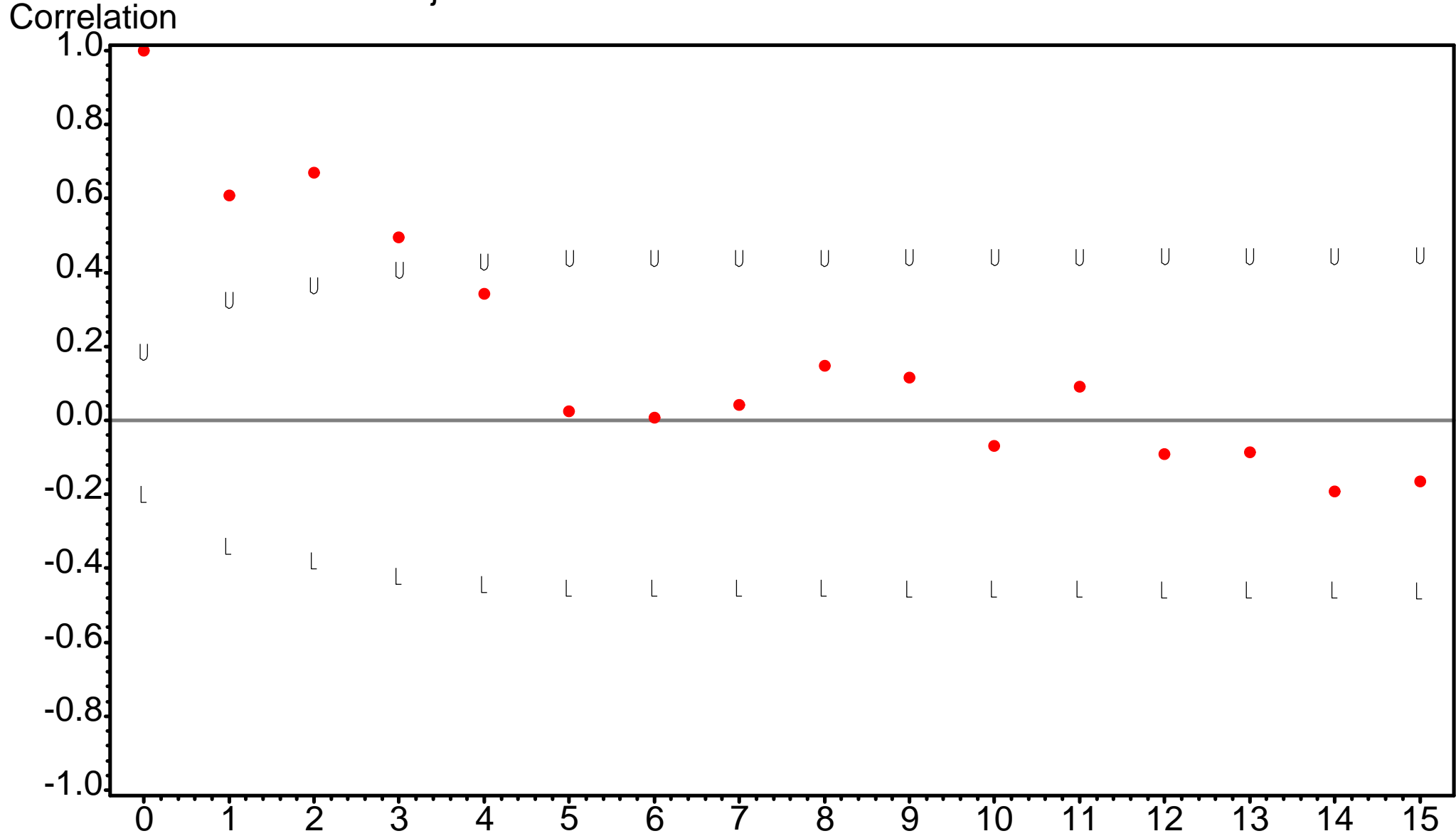
San Carlos Bay Trends Appendix - Display 1649
Autocorrelation Statistics for Surface Total Suspended Solids in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.609	0.167	0.333	-0.333
2	0.669	0.186	0.372	-0.372
3	0.495	0.207	0.414	-0.414
4	0.342	0.218	0.436	-0.436
5	0.025	0.223	0.446	-0.446
6	0.007	0.223	0.446	-0.446
7	0.042	0.223	0.446	-0.446
8	0.147	0.223	0.446	-0.446
9	0.115	0.224	0.448	-0.448
10	-0.069	0.224	0.449	-0.449
11	0.090	0.225	0.449	-0.449
12	-0.091	0.225	0.450	-0.450
13	-0.087	0.225	0.450	-0.450
14	-0.192	0.226	0.451	-0.451
15	-0.166	0.227	0.454	-0.454

San Carlos Bay Trends Appendix - Display 1650

Correlogram for Surface Total Suspended Solids in San Carlos Bay

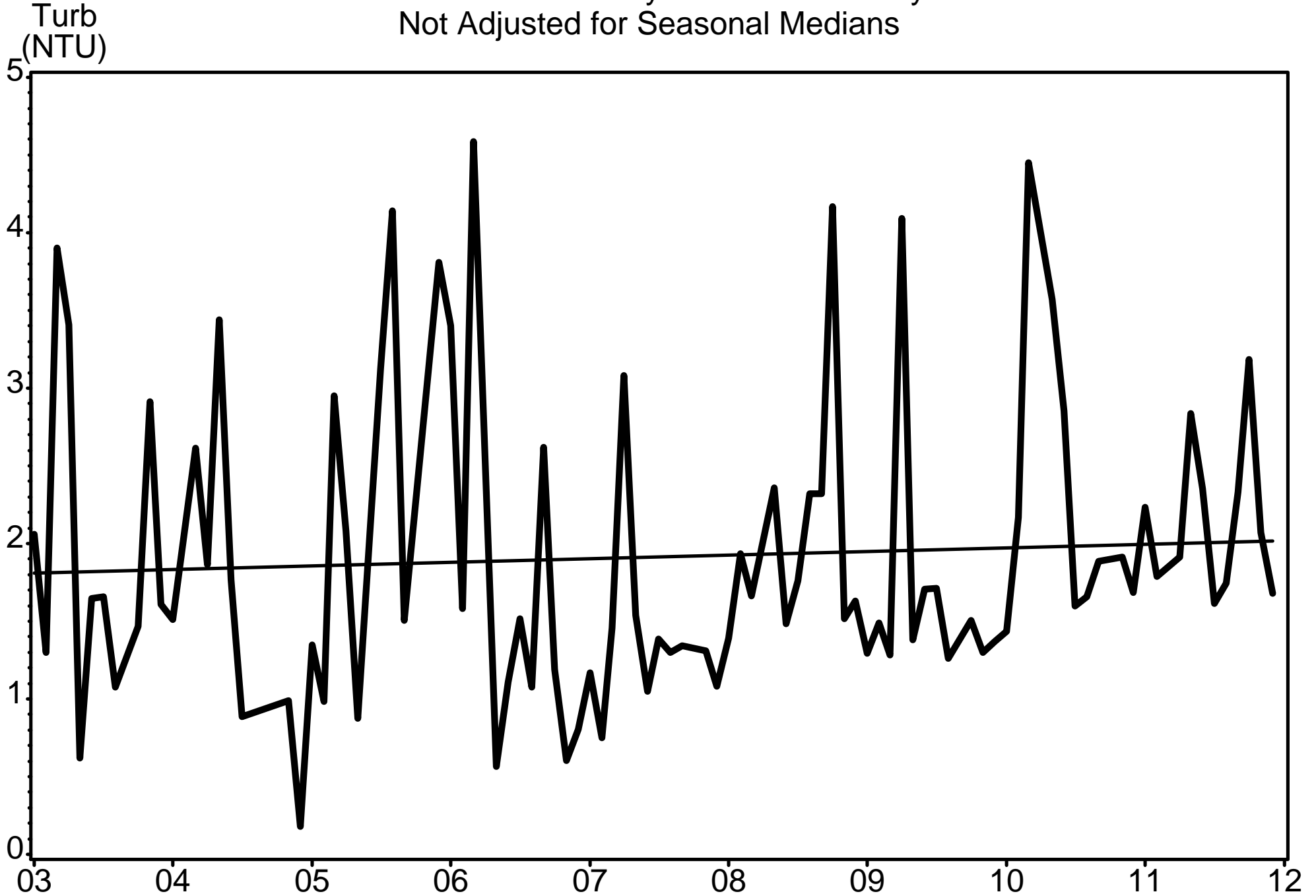
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1651

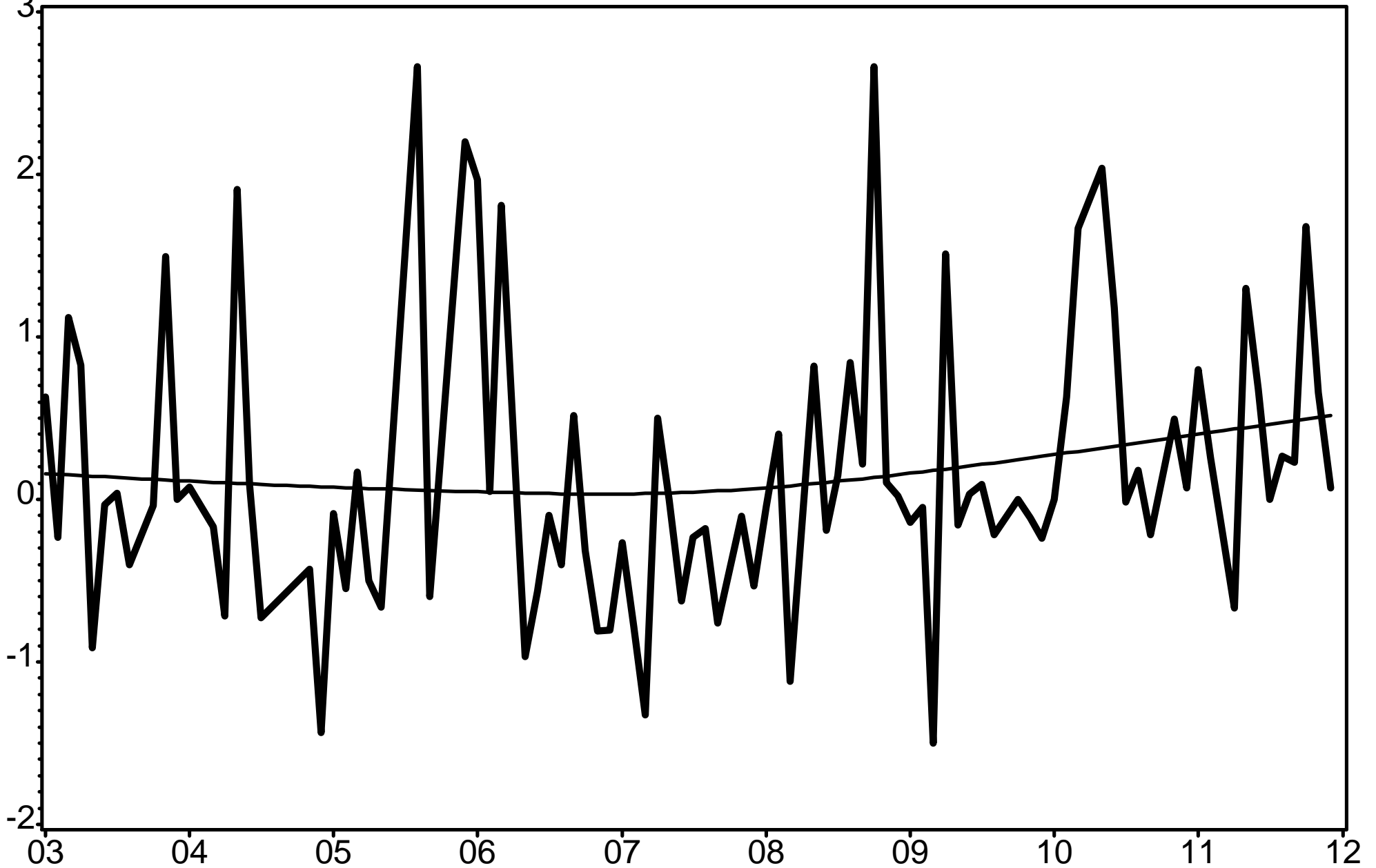
Monthly Data Time Series
for Surface Turbidity in San Carlos Bay
Not Adjusted for Seasonal Medians



San Carlos Bay Trends Appendix - Display 1652

Monthly Data Time Series
for Surface Turbidity in San Carlos Bay
Adjusted for Seasonal Medians

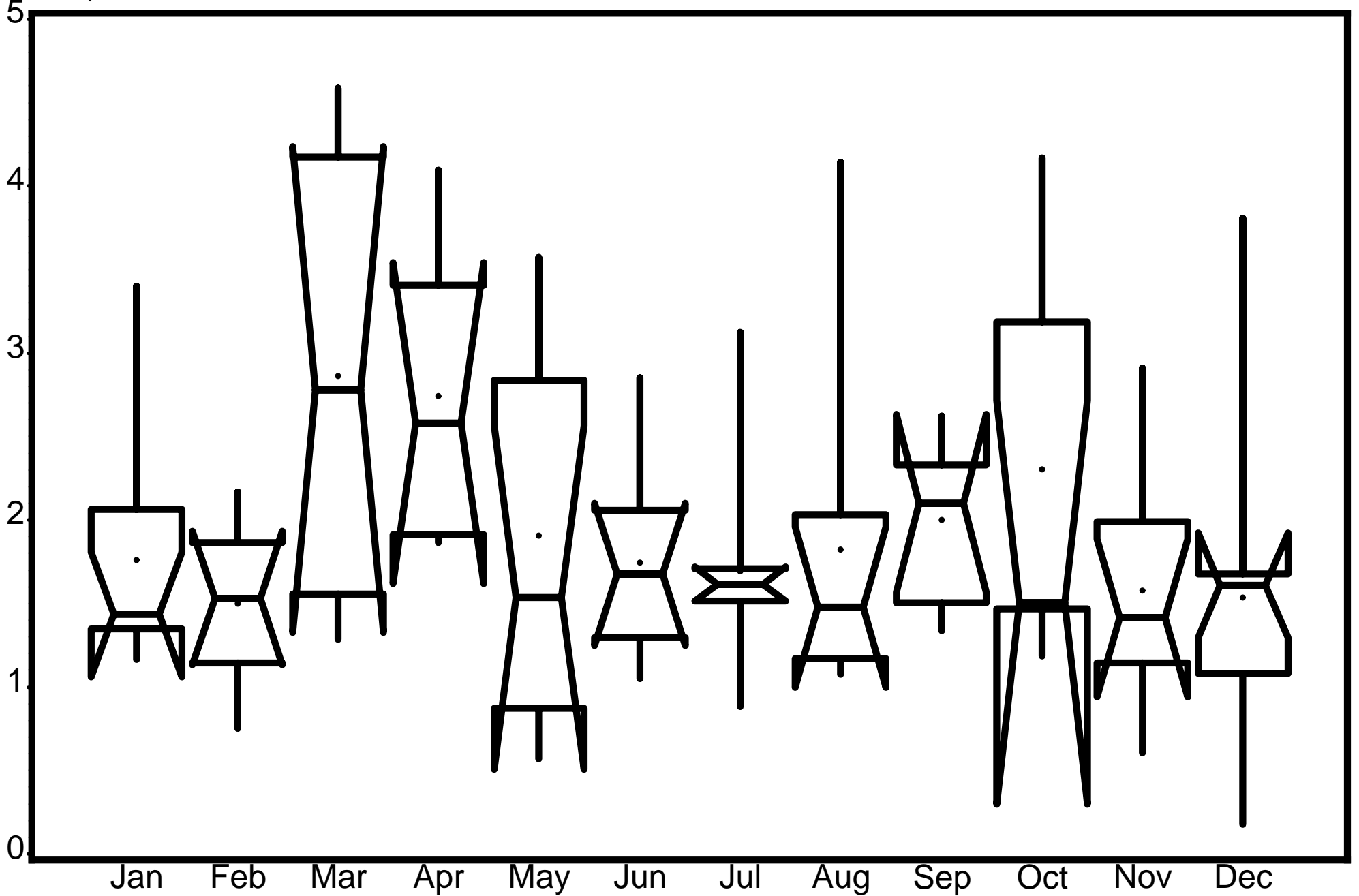
Adjusted
Turb
(NTU)



San Carlos Bay Trends Appendix - Display 1653

Seasonal Univariate Statistics for Surface Turbidity in San Carlos Bay

Turb
(NTU)



San Carlos Bay Trends Appendix - Display 1654

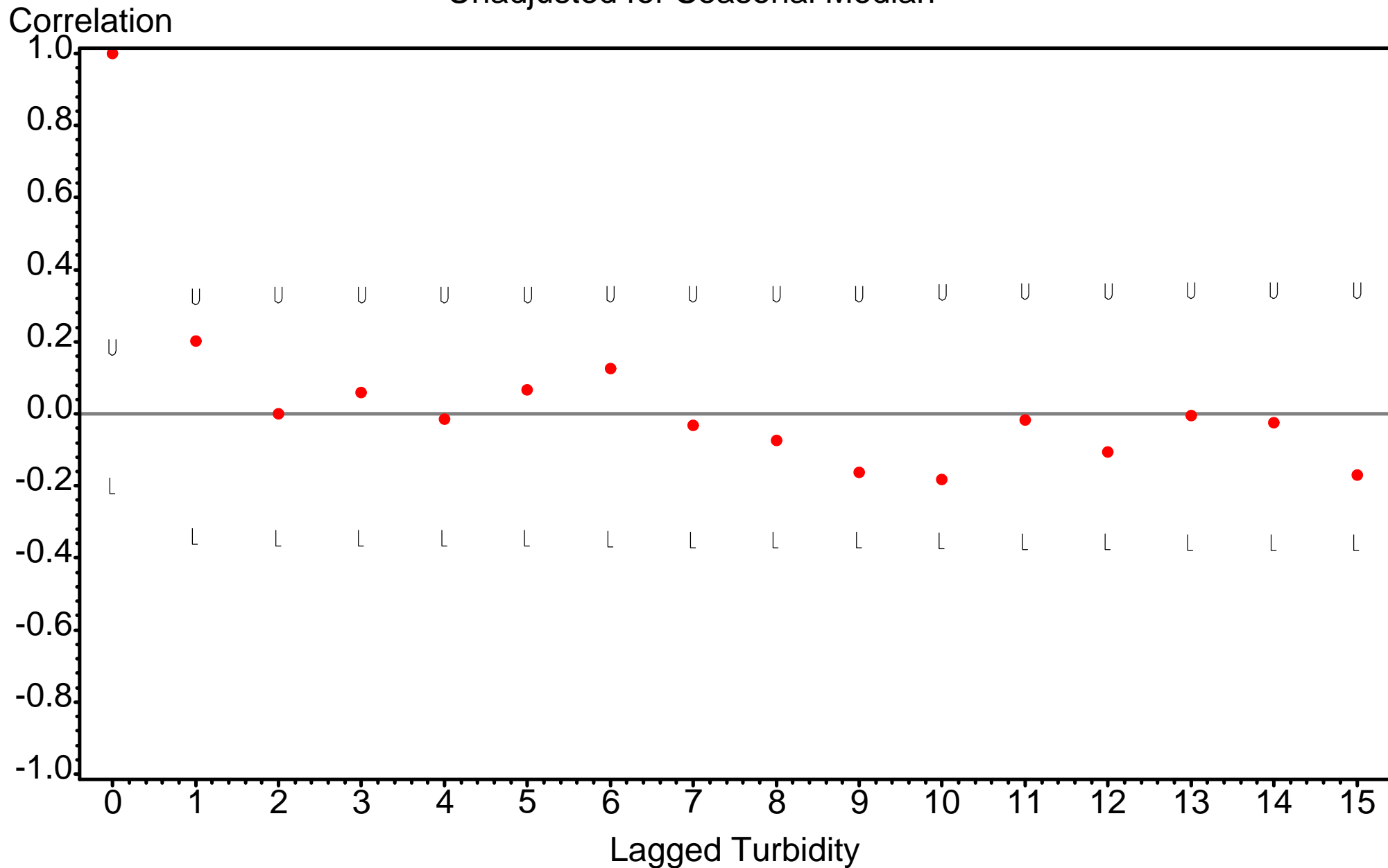
Autocorrelation Statistics for Surface Turbidity in San Carlos Bay

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.203	0.167	0.333	-0.333
2	-0.001	0.169	0.338	-0.338
3	0.060	0.169	0.338	-0.338
4	-0.014	0.169	0.338	-0.338
5	0.067	0.169	0.338	-0.338
6	0.126	0.169	0.339	-0.339
7	-0.031	0.170	0.341	-0.341
8	-0.073	0.170	0.341	-0.341
9	-0.163	0.171	0.341	-0.341
10	-0.183	0.172	0.344	-0.344
11	-0.016	0.174	0.348	-0.348
12	-0.107	0.174	0.348	-0.348
13	-0.005	0.174	0.349	-0.349
14	-0.024	0.174	0.349	-0.349
15	-0.171	0.174	0.349	-0.349

San Carlos Bay Trends Appendix - Display 1655

Correlogram for Surface Turbidity in San Carlos Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

San Carlos Bay Trends Appendix - Display 1656
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in San Carlos Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.141	0.046	0.046	0.06

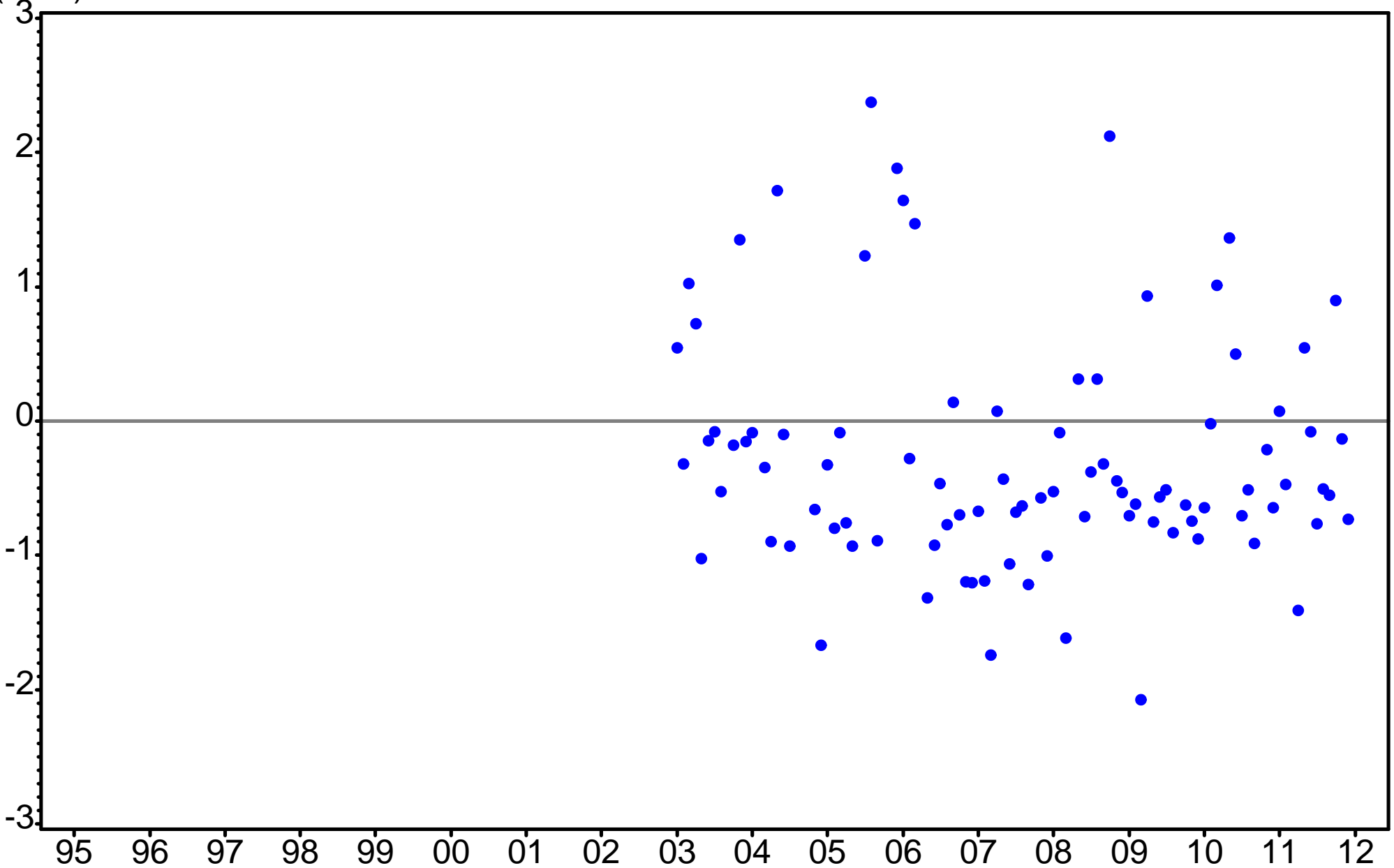
San Carlos Bay Trends Appendix - Display 1657
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in San Carlos Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.19753	0.023007	0.1585	0.080571

San Carlos Bay Trends Appendix - Display 1658

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
San Carlos Bay

Adjusted
(NTU)



Zero Reference Line Shown

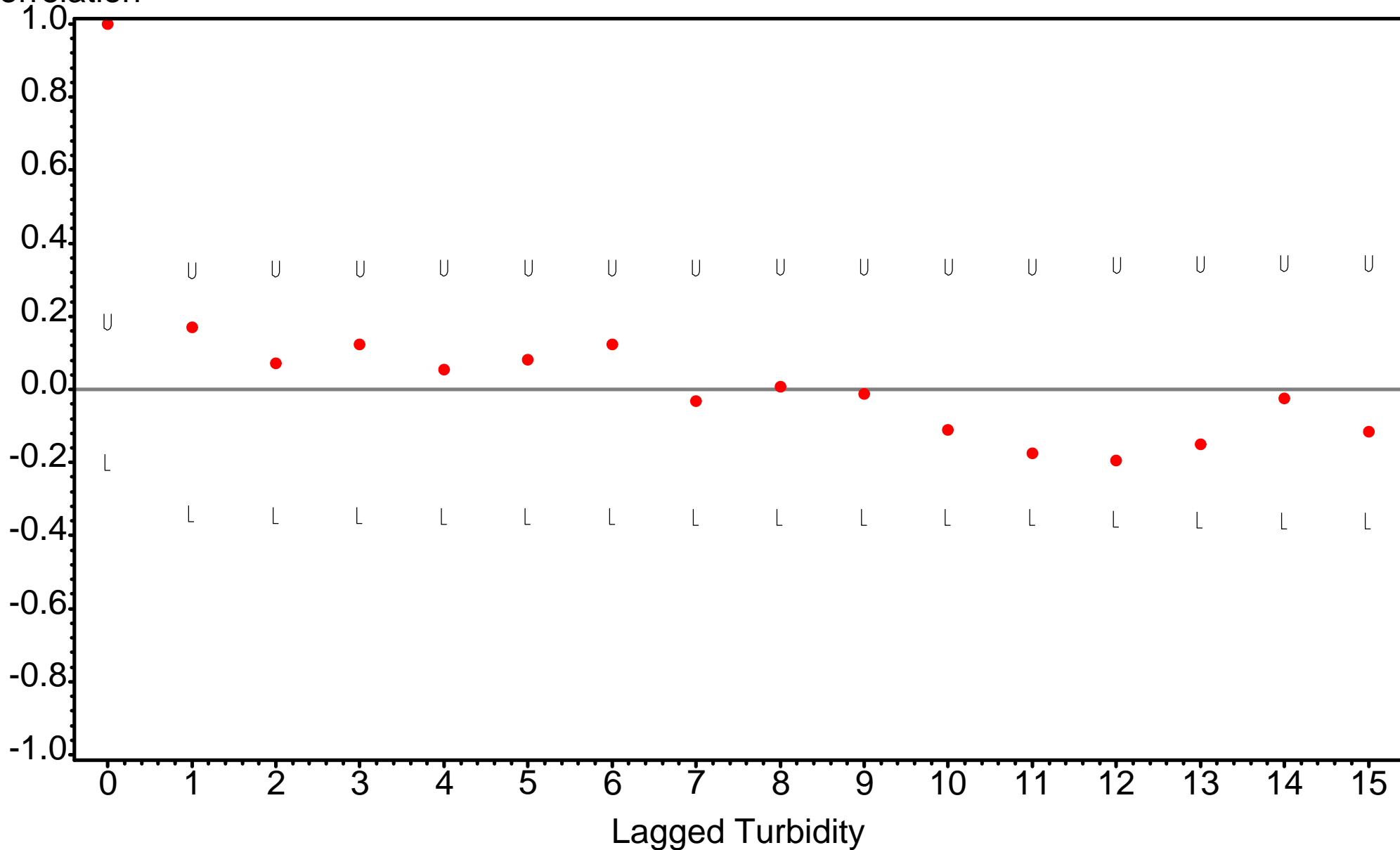
San Carlos Bay Trends Appendix - Display 1659
Autocorrelation Statistics for Surface Turbidity in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.171	0.167	0.333	-0.333
2	0.072	0.168	0.337	-0.337
3	0.123	0.169	0.337	-0.337
4	0.054	0.169	0.339	-0.339
5	0.081	0.170	0.339	-0.339
6	0.123	0.170	0.340	-0.340
7	-0.032	0.171	0.341	-0.341
8	0.008	0.171	0.342	-0.342
9	-0.013	0.171	0.342	-0.342
10	-0.111	0.171	0.342	-0.342
11	-0.174	0.171	0.343	-0.343
12	-0.194	0.173	0.346	-0.346
13	-0.149	0.175	0.350	-0.350
14	-0.024	0.176	0.353	-0.353
15	-0.116	0.176	0.353	-0.353

San Carlos Bay Trends Appendix - Display 1660

Correlogram for Surface Turbidity in San Carlos Bay
Adjusted for Seasonal Median and Detrended

Correlation

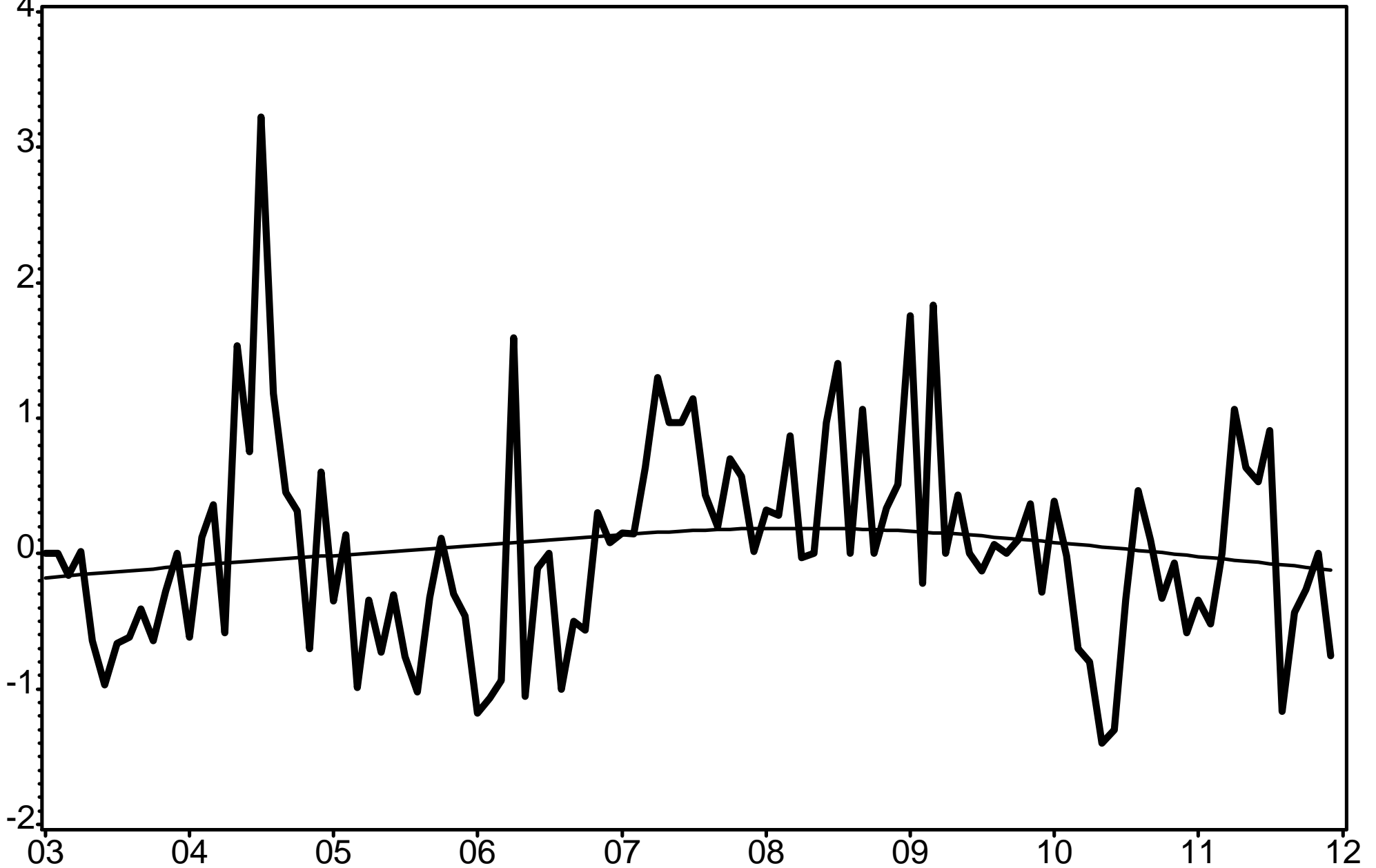


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1662

Monthly Data Time Series
for Surface BOD 5-Day in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Adjusted
BOD_mgl
(mg/l)

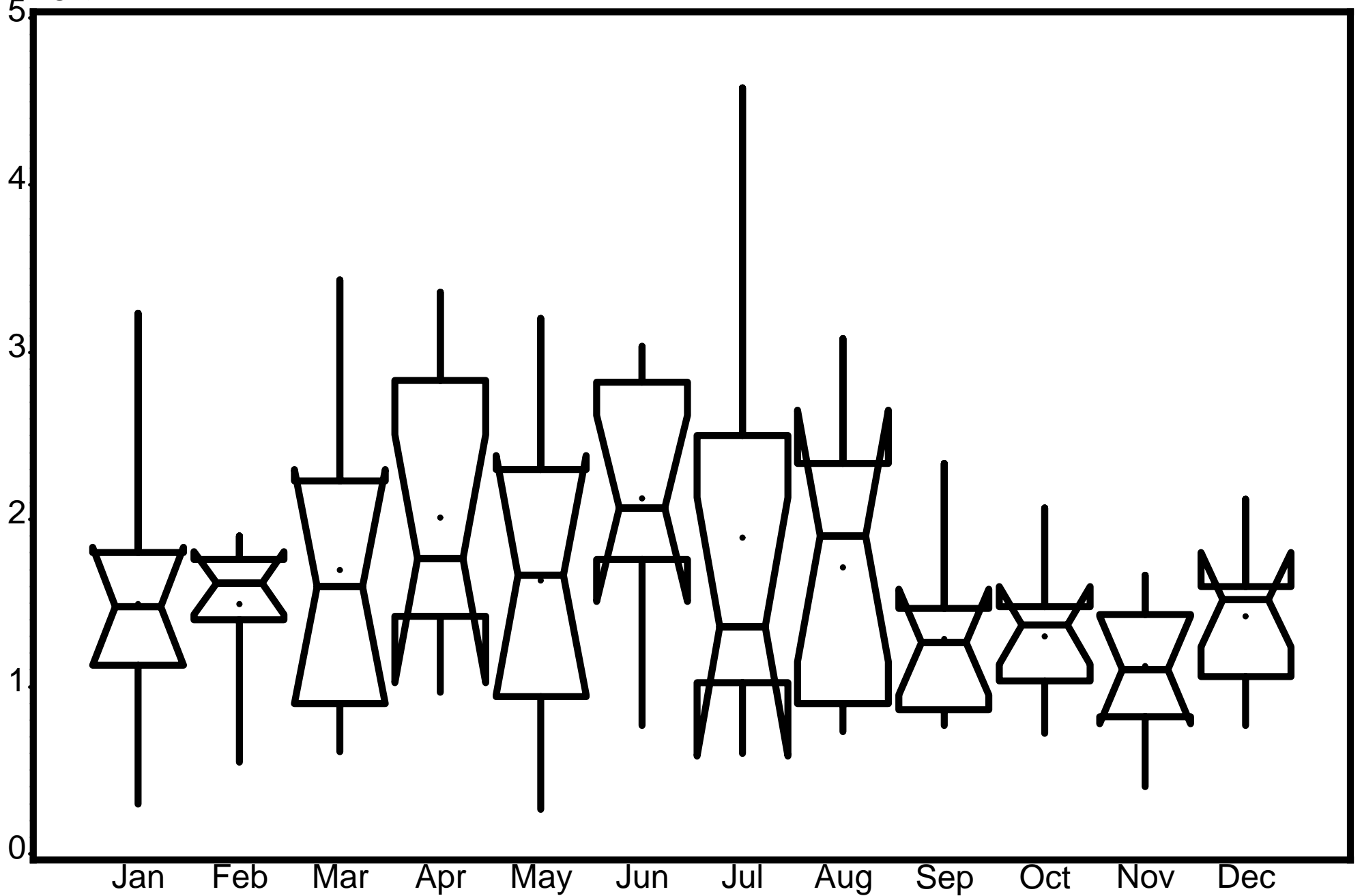


Tidal Caloosahatchee Trends Appendix - Display 1663

Seasonal Univariate Statistics

for Surface BOD 5-Day in Tidal Caloosahatchee

BOD_mgl
(mg/l)



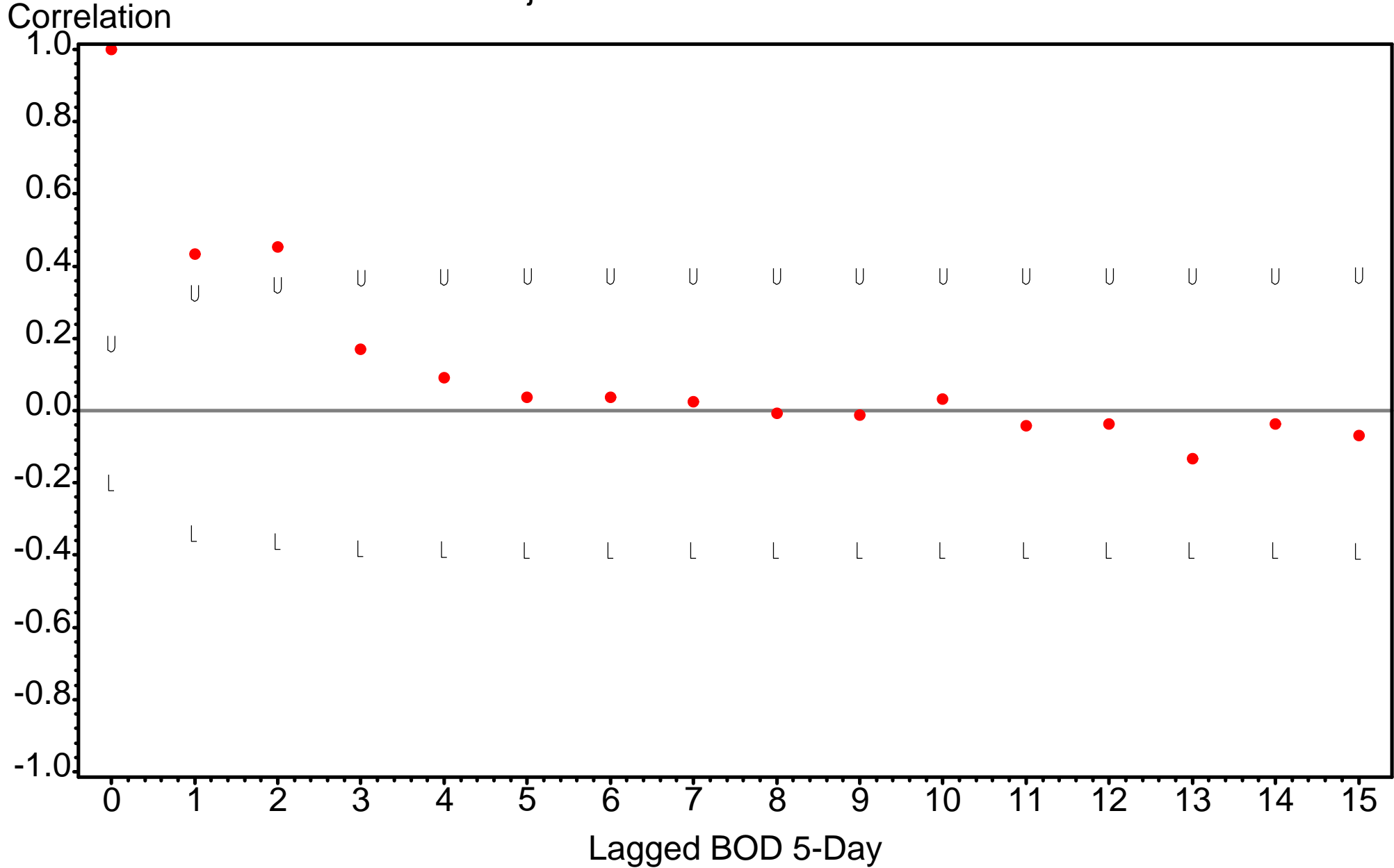
Tidal Caloosahatchee Trends Appendix - Display 1664
Autocorrelation Statistics for Surface BOD 5-Day in Tidal Caloosahatchee

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.433	0.167	0.333	-0.333
2	0.452	0.177	0.354	-0.354
3	0.170	0.187	0.374	-0.374
4	0.090	0.189	0.377	-0.377
5	0.037	0.189	0.378	-0.378
6	0.037	0.189	0.378	-0.378
7	0.025	0.189	0.378	-0.378
8	-0.007	0.189	0.378	-0.378
9	-0.013	0.189	0.378	-0.378
10	0.031	0.189	0.378	-0.378
11	-0.043	0.189	0.378	-0.378
12	-0.037	0.189	0.379	-0.379
13	-0.132	0.189	0.379	-0.379
14	-0.036	0.190	0.380	-0.380
15	-0.070	0.190	0.381	-0.381

Tidal Caloosahatchee Trends Appendix - Display 1665

Correlogram for Surface BOD 5-Day in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1666
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.033	0.62	0.62	0.015

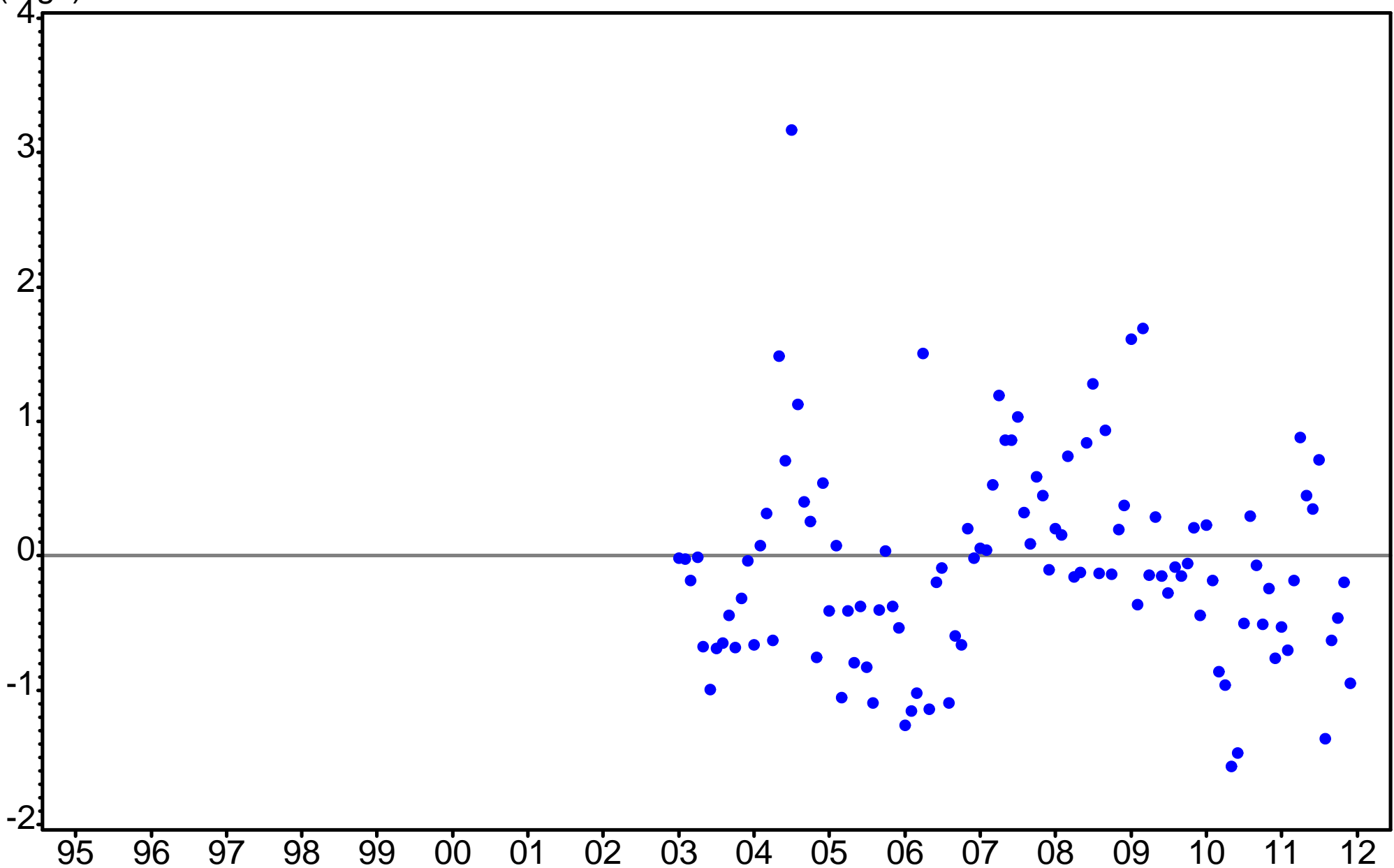
Tidal Caloosahatchee Trends Appendix - Display 1667
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.043982	0.58783	0.79400	0.02

Tidal Caloosahatchee Trends Appendix - Display 1668

Time Series Plot of Surface BOD 5-Day Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(mg/l)



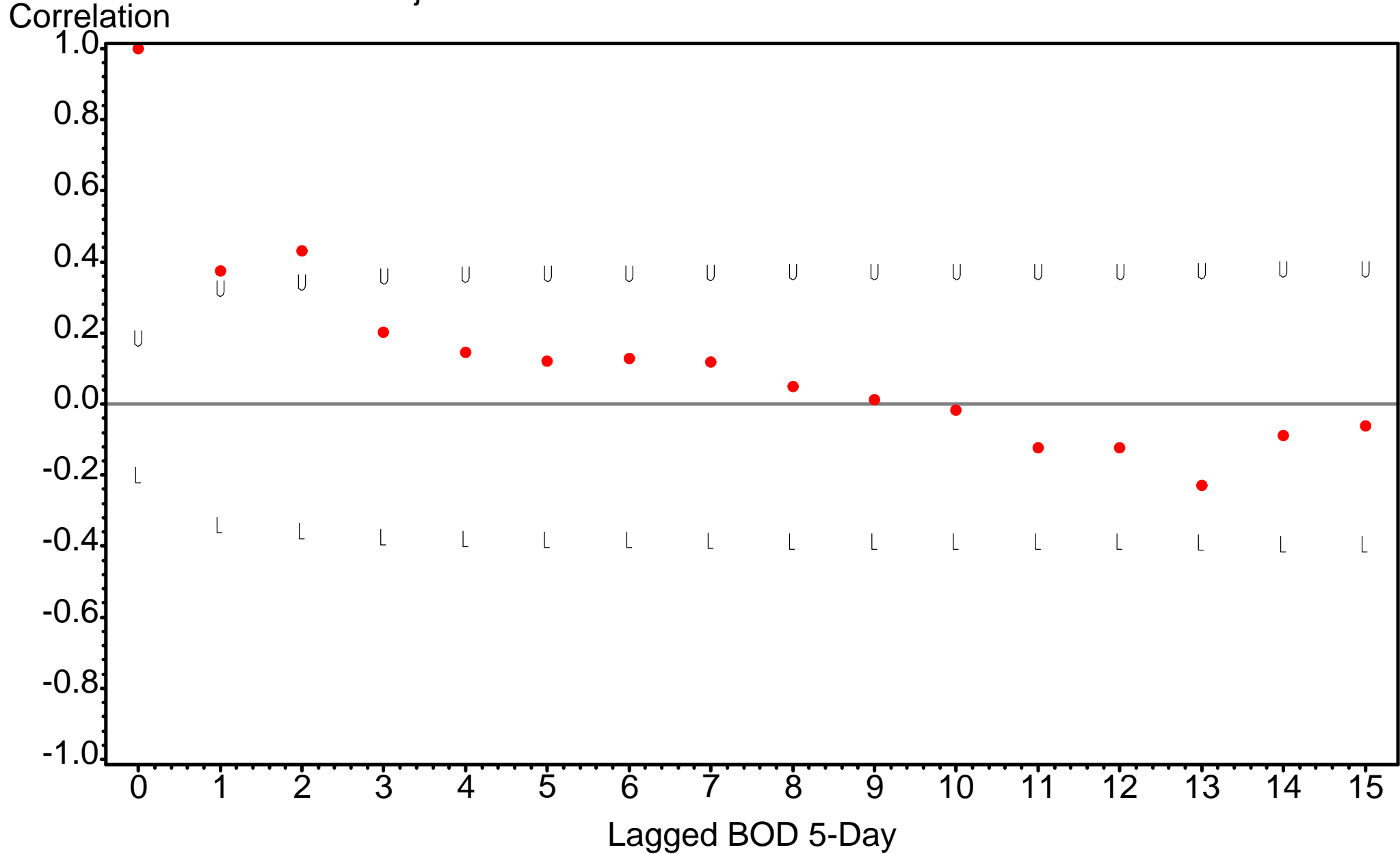
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1669
Autocorrelation Statistics for Surface BOD 5-Day in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.374	0.167	0.333	-0.333
2	0.431	0.174	0.349	-0.349
3	0.201	0.184	0.368	-0.368
4	0.146	0.186	0.372	-0.372
5	0.121	0.187	0.374	-0.374
6	0.127	0.188	0.375	-0.375
7	0.118	0.188	0.377	-0.377
8	0.050	0.189	0.378	-0.378
9	0.013	0.189	0.379	-0.379
10	-0.017	0.189	0.379	-0.379
11	-0.123	0.189	0.379	-0.379
12	-0.123	0.190	0.380	-0.380
13	-0.229	0.191	0.382	-0.382
14	-0.089	0.193	0.387	-0.387
15	-0.062	0.194	0.387	-0.387

Tidal Caloosahatchee Trends Appendix - Display 1670

Correlogram for Surface BOD 5-Day in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

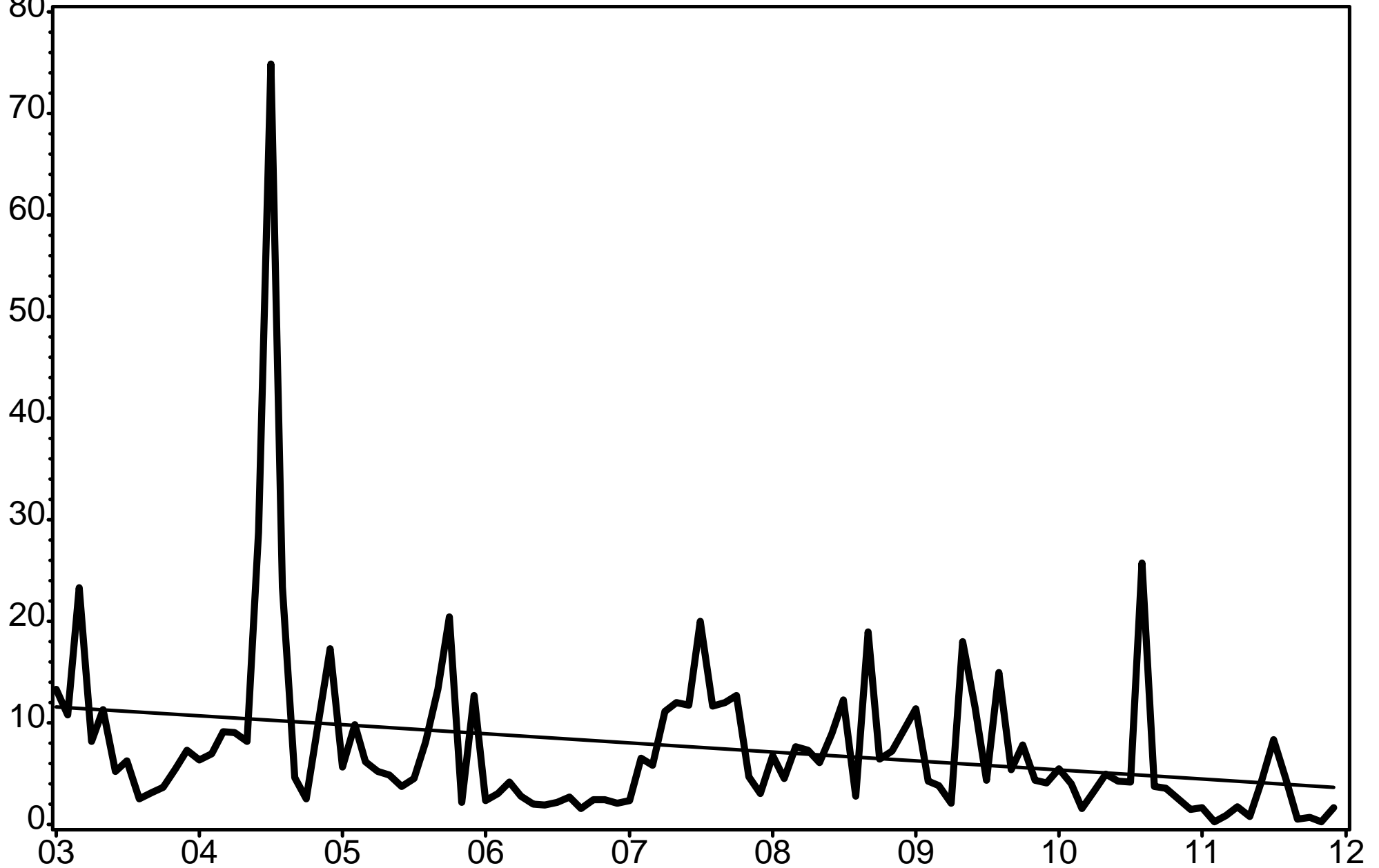
Tidal Caloosahatchee Trends Appendix - Display 1671

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



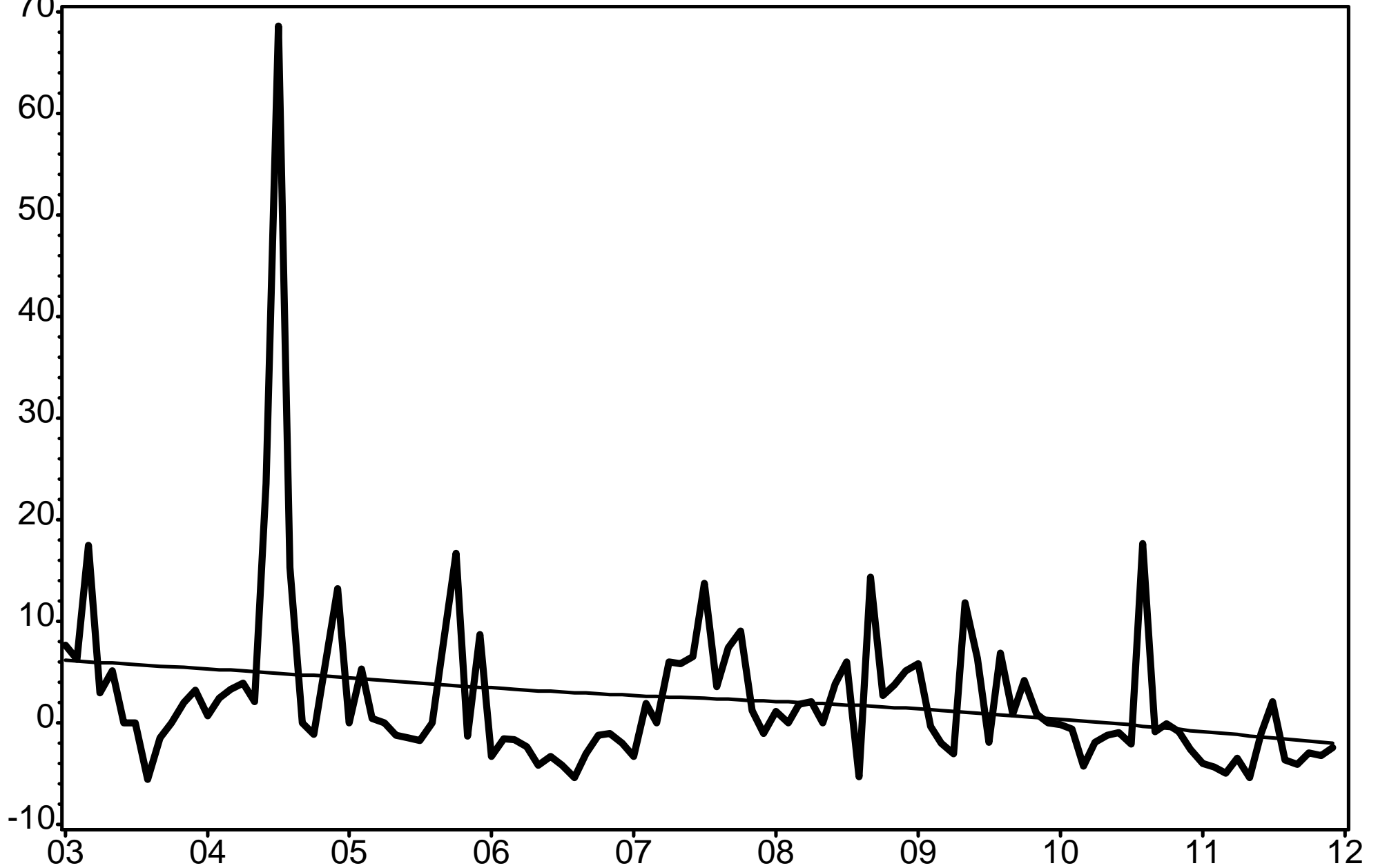
Tidal Caloosahatchee Trends Appendix - Display 1672

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee

Adjusted for Seasonal Medians

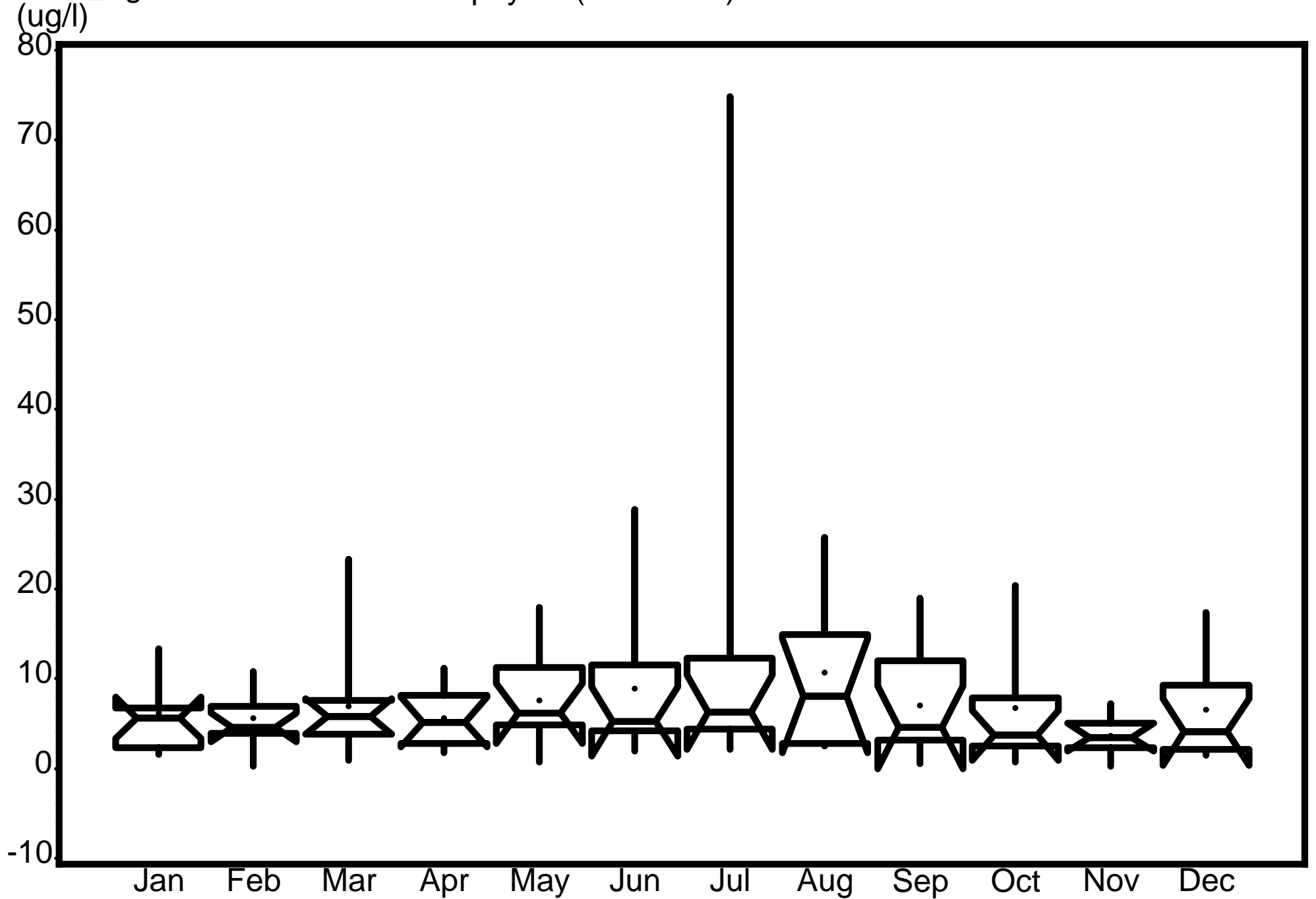
Adjusted
CHLAC_ugl
(ug/l)



Tidal Caloosahatchee Trends Appendix - Display 1673

Seasonal Univariate Statistics

CHLAC_ugl for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee



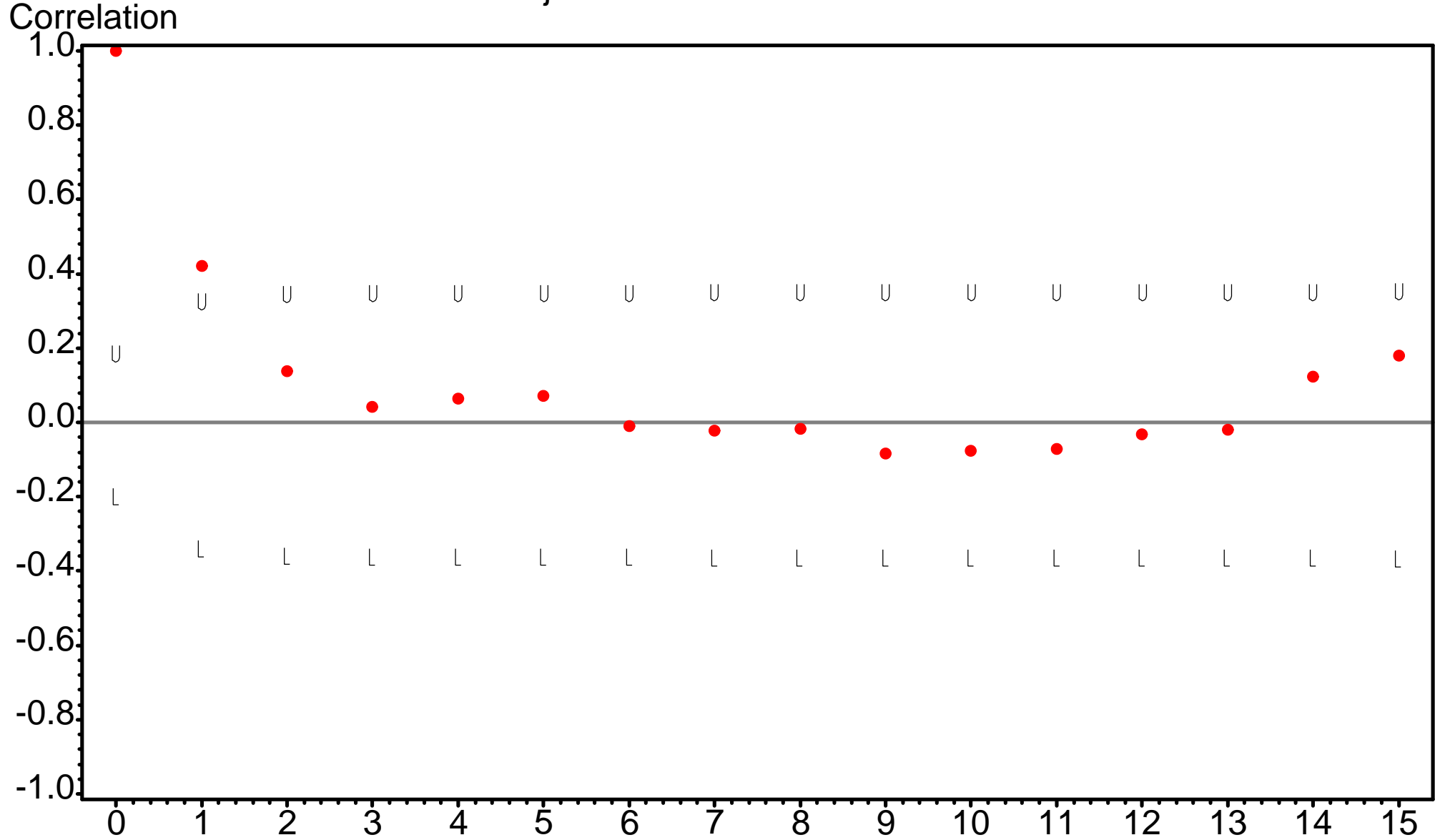
Tidal Caloosahatchee Trends Appendix - Display 1674
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.420	0.167	0.333	-0.333
2	0.138	0.176	0.352	-0.352
3	0.041	0.177	0.354	-0.354
4	0.064	0.177	0.355	-0.355
5	0.071	0.177	0.355	-0.355
6	-0.010	0.178	0.355	-0.355
7	-0.021	0.178	0.356	-0.356
8	-0.016	0.178	0.356	-0.356
9	-0.083	0.178	0.356	-0.356
10	-0.077	0.178	0.356	-0.356
11	-0.071	0.178	0.357	-0.357
12	-0.031	0.179	0.357	-0.357
13	-0.020	0.179	0.358	-0.358
14	0.122	0.179	0.358	-0.358
15	0.180	0.180	0.359	-0.359

Tidal Caloosahatchee Trends Appendix - Display 1675

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1676
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

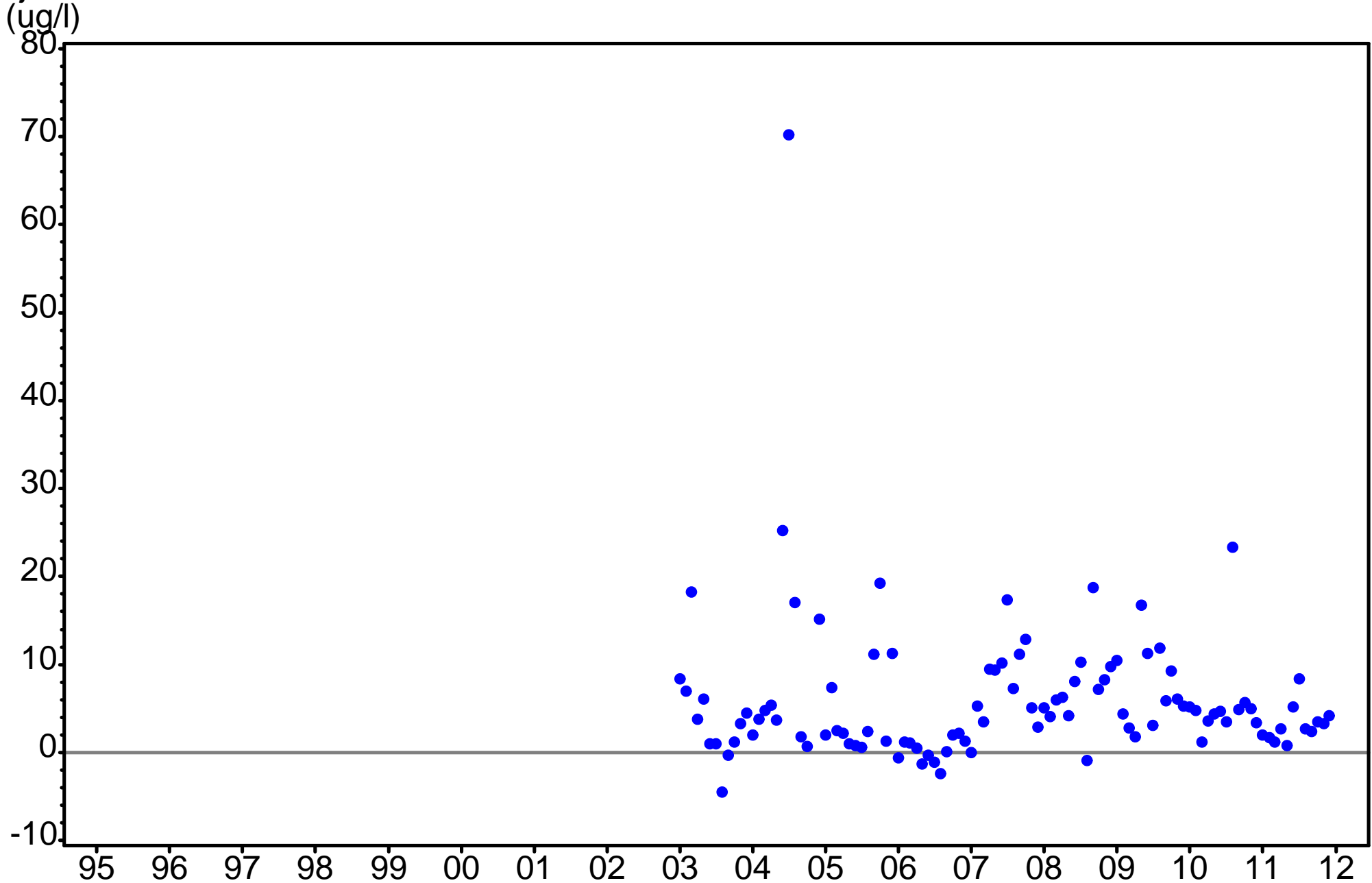
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.258	0	0	-0.56

Tidal Caloosahatchee Trends Appendix - Display 1677
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.31604	.000050991	0.081373	-0.6635

Tidal Caloosahatchee Trends Appendix - Display 1678

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Tidal Caloosahatchee



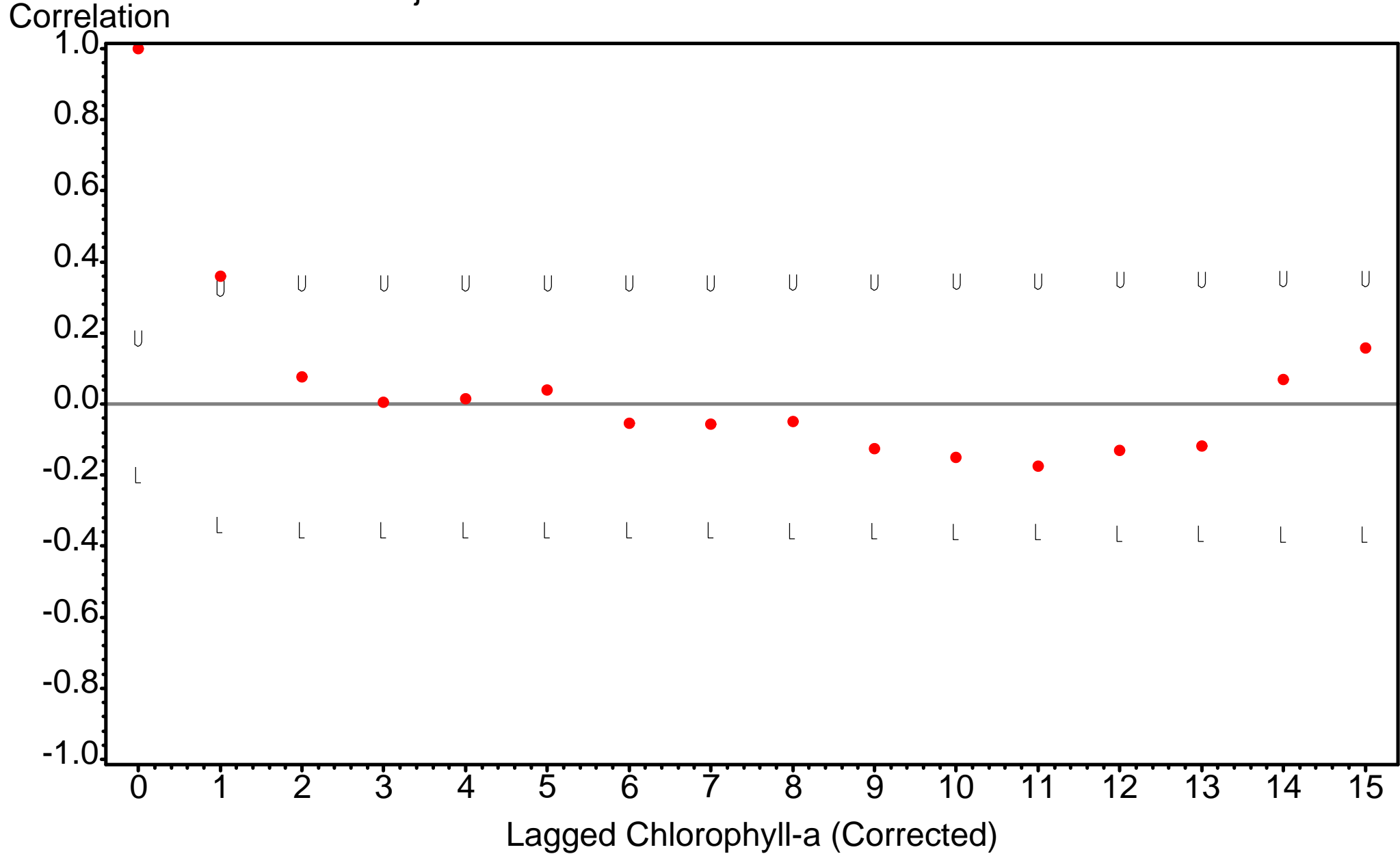
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1679
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.359	0.167	0.333	-0.333
2	0.077	0.174	0.347	-0.347
3	0.004	0.174	0.348	-0.348
4	0.015	0.174	0.348	-0.348
5	0.039	0.174	0.348	-0.348
6	-0.055	0.174	0.348	-0.348
7	-0.056	0.174	0.348	-0.348
8	-0.050	0.174	0.349	-0.349
9	-0.126	0.175	0.349	-0.349
10	-0.149	0.175	0.351	-0.351
11	-0.174	0.177	0.353	-0.353
12	-0.131	0.178	0.356	-0.356
13	-0.117	0.179	0.358	-0.358
14	0.068	0.180	0.359	-0.359
15	0.158	0.180	0.360	-0.360

Tidal Caloosahatchee Trends Appendix - Display 1680

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended

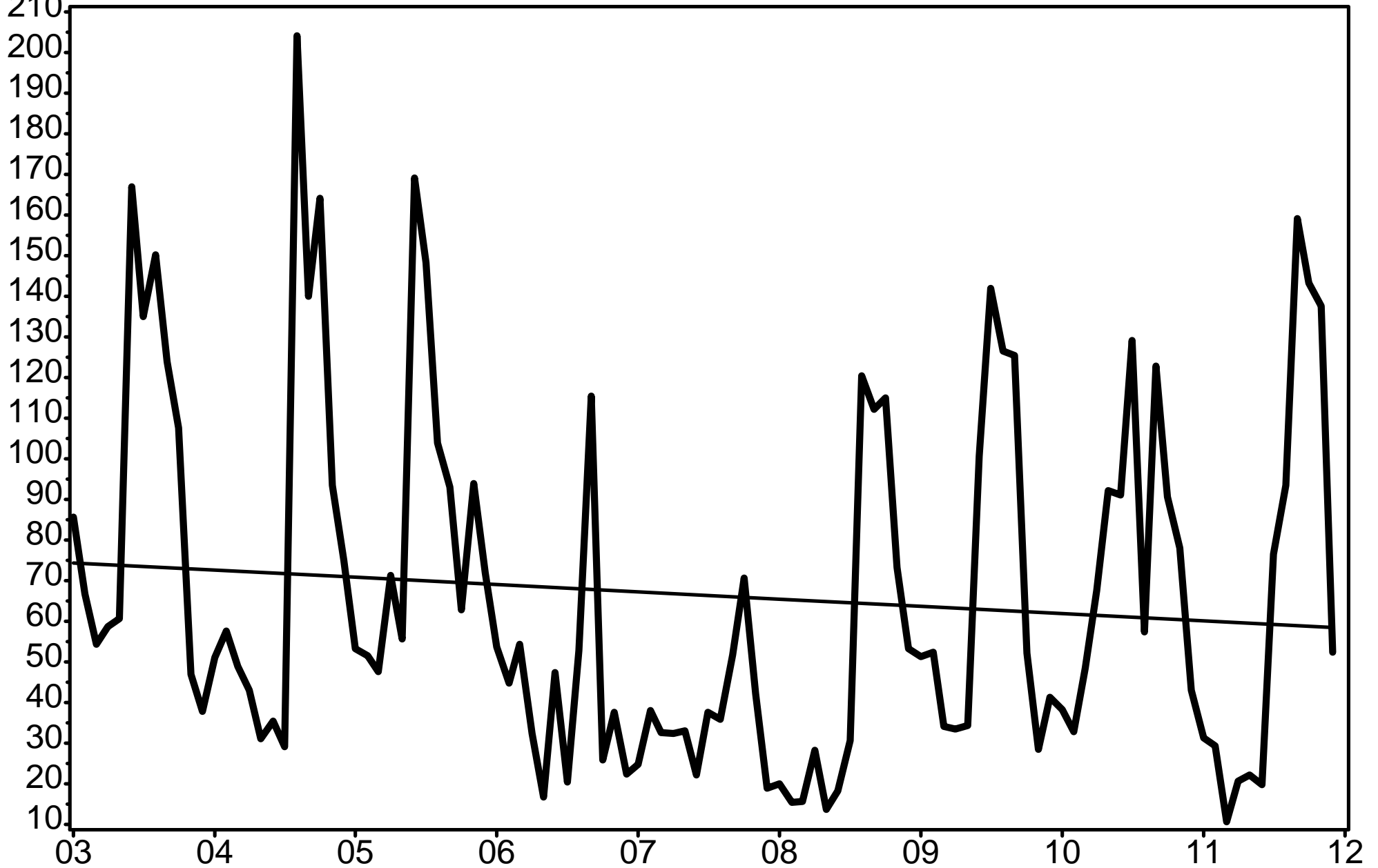


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1681

Monthly Data Time Series
for Surface Color in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians

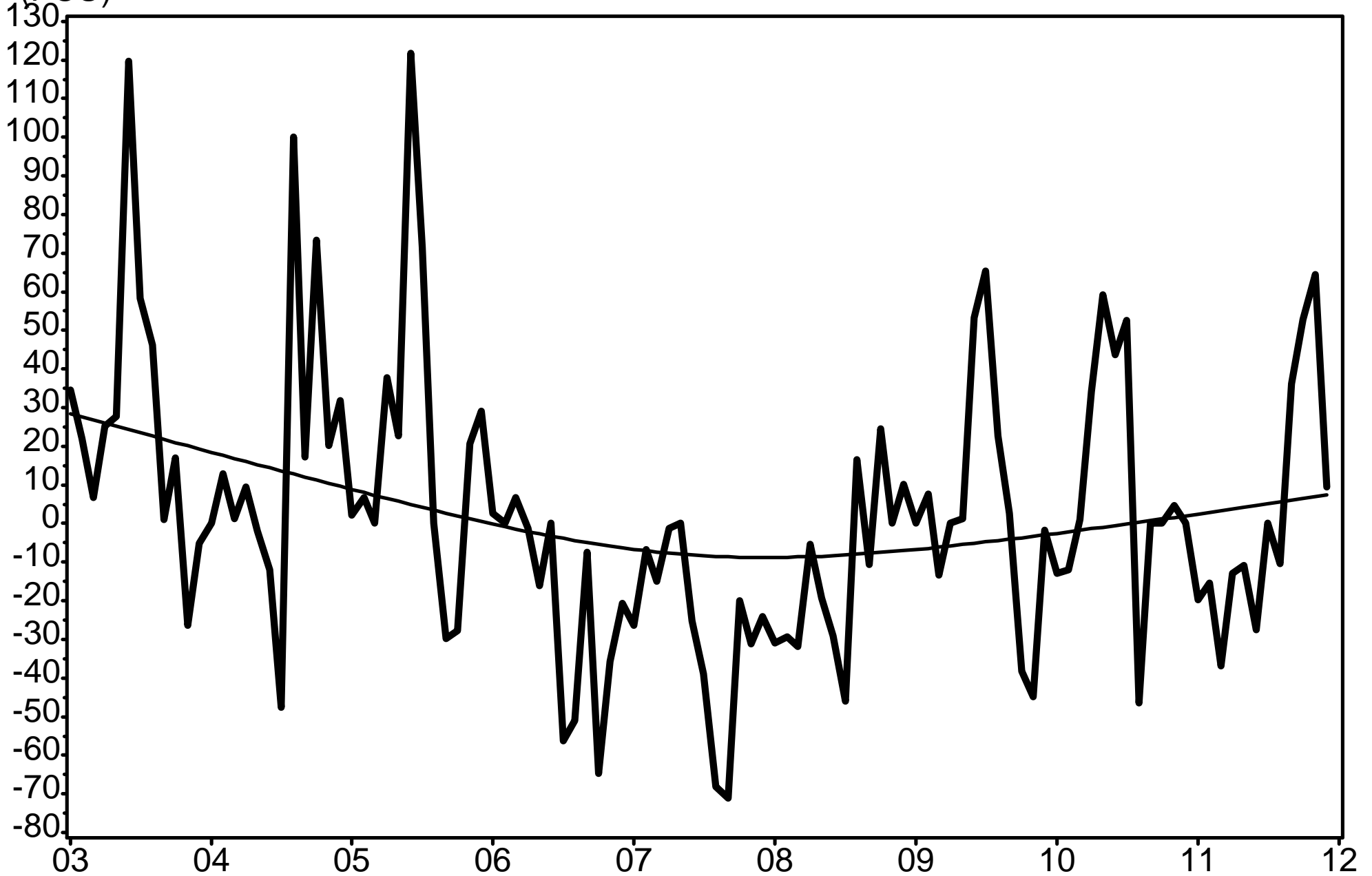
COLOR
(PCU)



Tidal Caloosahatchee Trends Appendix - Display 1682

Monthly Data Time Series
for Surface Color in Tidal Caloosahatchee
Adjusted for Seasonal Medians

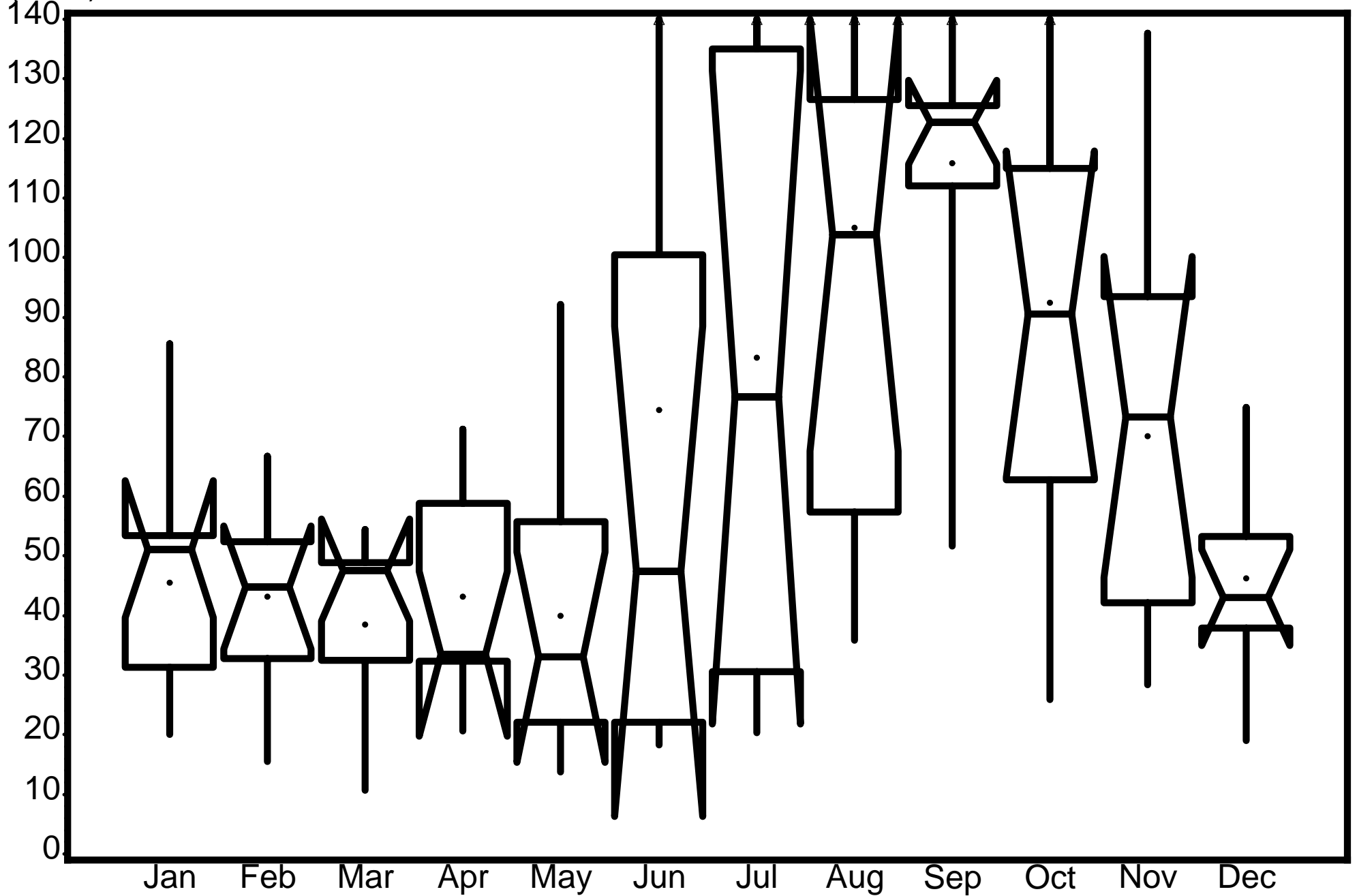
Adjusted
COLOR
(PCU)



Tidal Caloosahatchee Trends Appendix - Display 1683

Seasonal Univariate Statistics for Surface Color in Tidal Caloosahatchee

COLOR
(PCU)



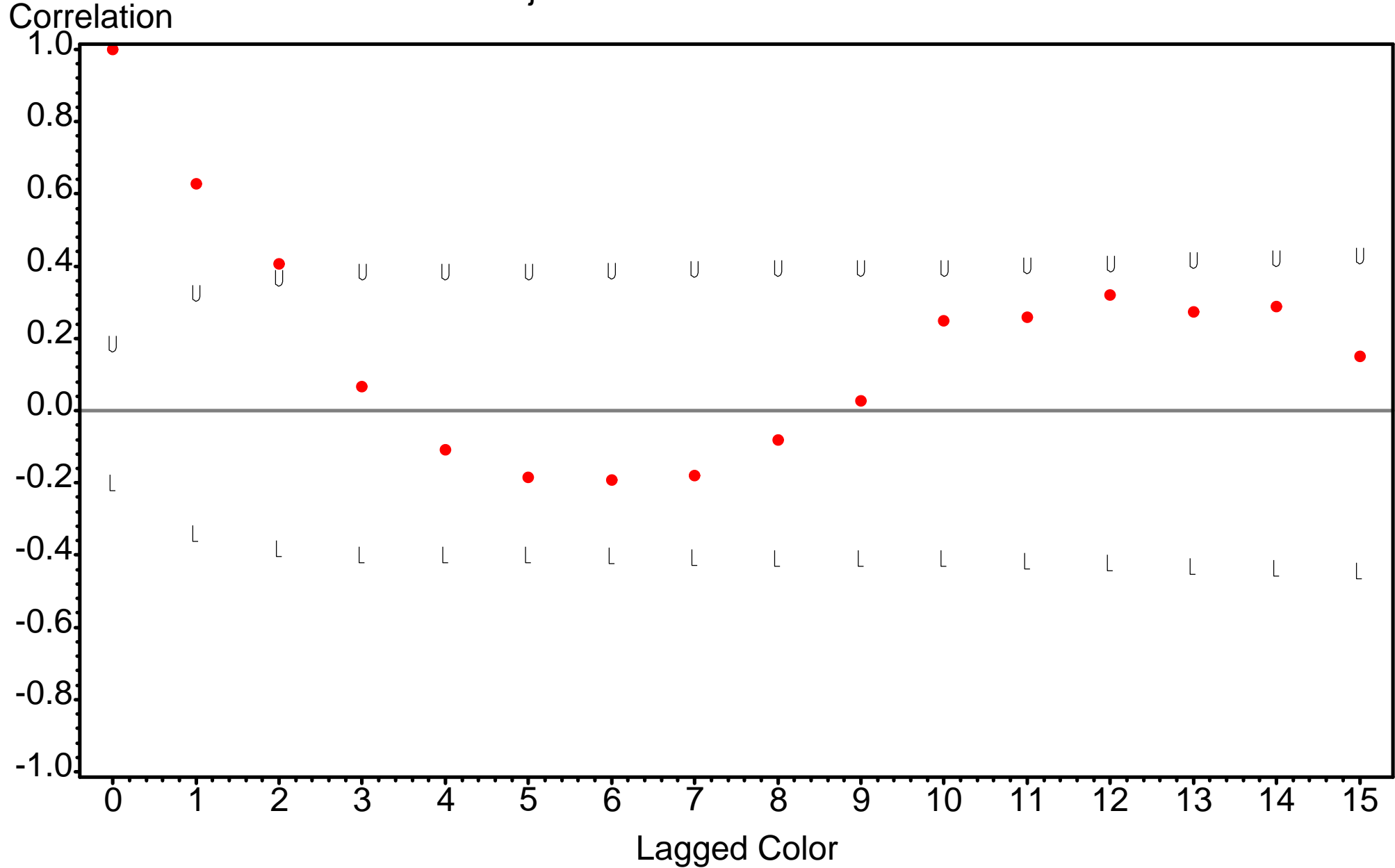
Tidal Caloosahatchee Trends Appendix - Display 1684

Autocorrelation Statistics for Surface Color in Tidal Caloosahatchee

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.628	0.167	0.333	-0.333
2	0.406	0.187	0.375	-0.375
3	0.067	0.195	0.391	-0.391
4	-0.109	0.195	0.391	-0.391
5	-0.184	0.196	0.392	-0.392
6	-0.193	0.198	0.395	-0.395
7	-0.179	0.199	0.399	-0.399
8	-0.080	0.201	0.402	-0.402
9	0.027	0.201	0.402	-0.402
10	0.248	0.201	0.402	-0.402
11	0.258	0.204	0.408	-0.408
12	0.320	0.207	0.414	-0.414
13	0.274	0.211	0.423	-0.423
14	0.288	0.215	0.429	-0.429
15	0.149	0.218	0.437	-0.437

Tidal Caloosahatchee Trends Appendix - Display 1685

Correlogram for Surface Color in Tidal Caloosahatchee Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1686
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.107	0.101	0.101	-2.087

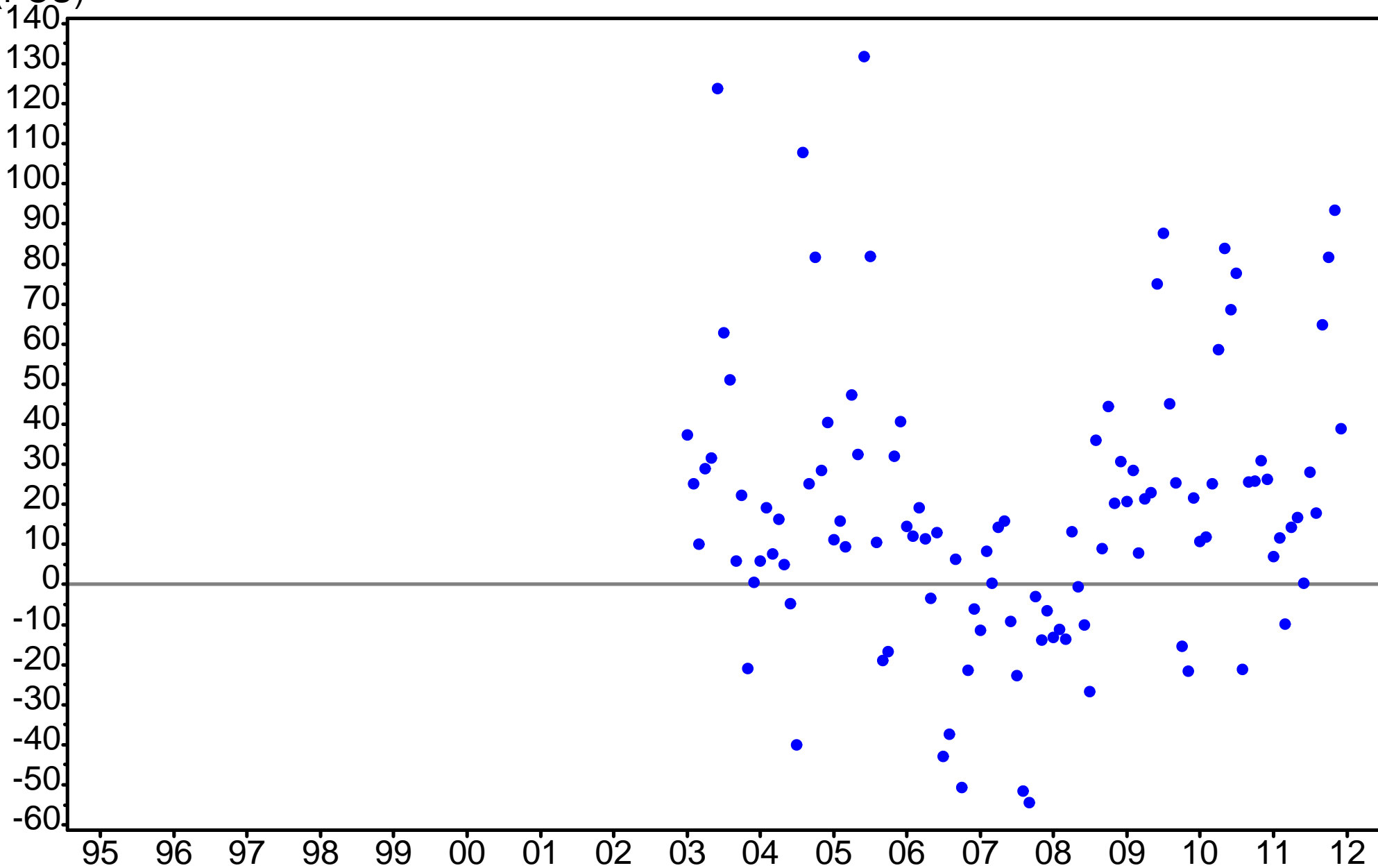
Tidal Caloosahatchee Trends Appendix - Display 1687
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19676	0.011431	0.17843	-2.95527

Tidal Caloosahatchee Trends Appendix - Display 1688

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(PCU)



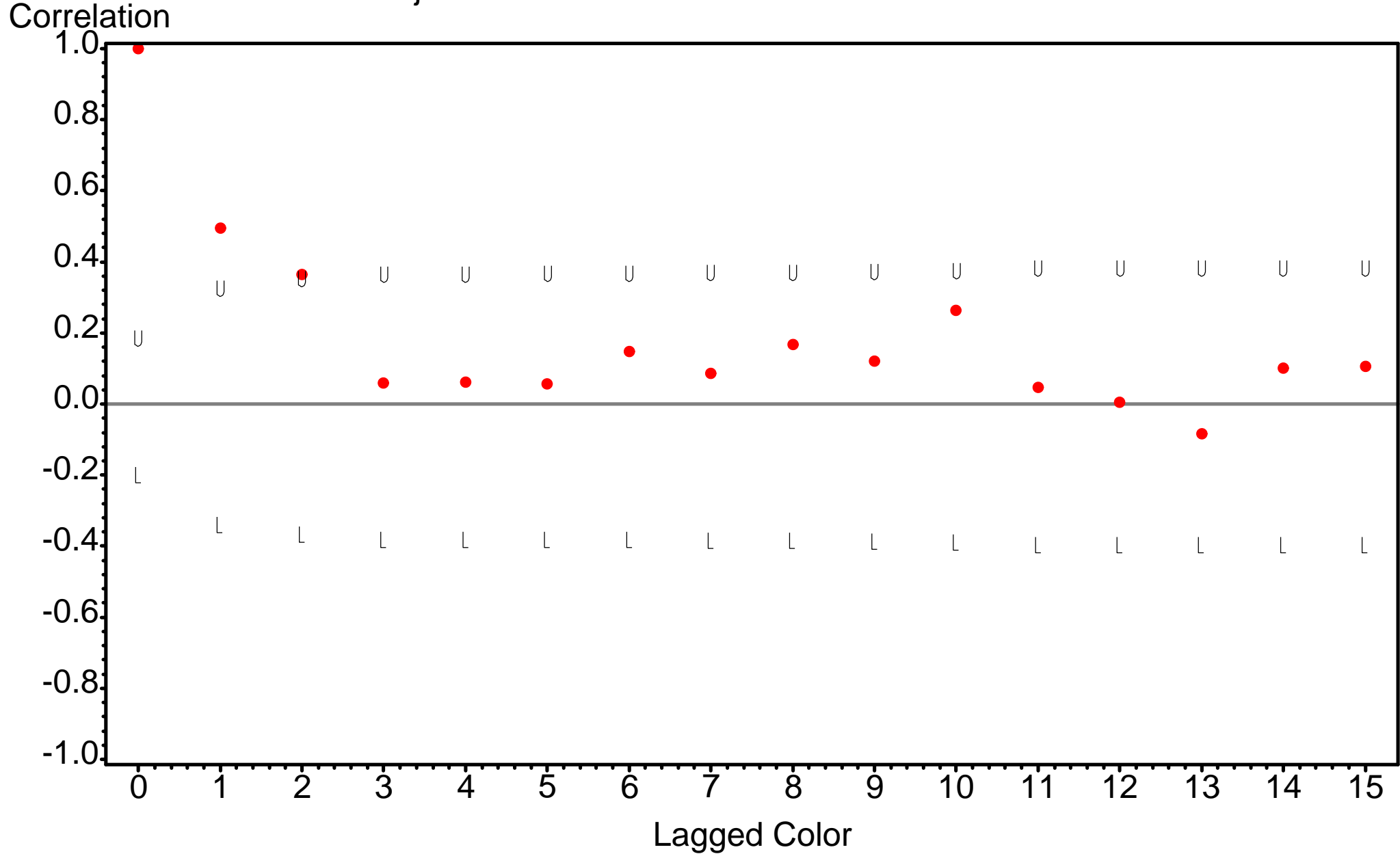
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1689
Autocorrelation Statistics for Surface Color in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.496	0.167	0.333	-0.333
2	0.364	0.180	0.360	-0.360
3	0.058	0.187	0.373	-0.373
4	0.061	0.187	0.373	-0.373
5	0.057	0.187	0.374	-0.374
6	0.147	0.187	0.374	-0.374
7	0.087	0.188	0.376	-0.376
8	0.167	0.188	0.377	-0.377
9	0.120	0.190	0.380	-0.380
10	0.263	0.191	0.381	-0.381
11	0.046	0.194	0.388	-0.388
12	0.004	0.194	0.388	-0.388
13	-0.084	0.194	0.388	-0.388
14	0.102	0.194	0.389	-0.389
15	0.105	0.195	0.390	-0.390

Tidal Caloosahatchee Trends Appendix - Display 1690

Correlogram for Surface Color in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

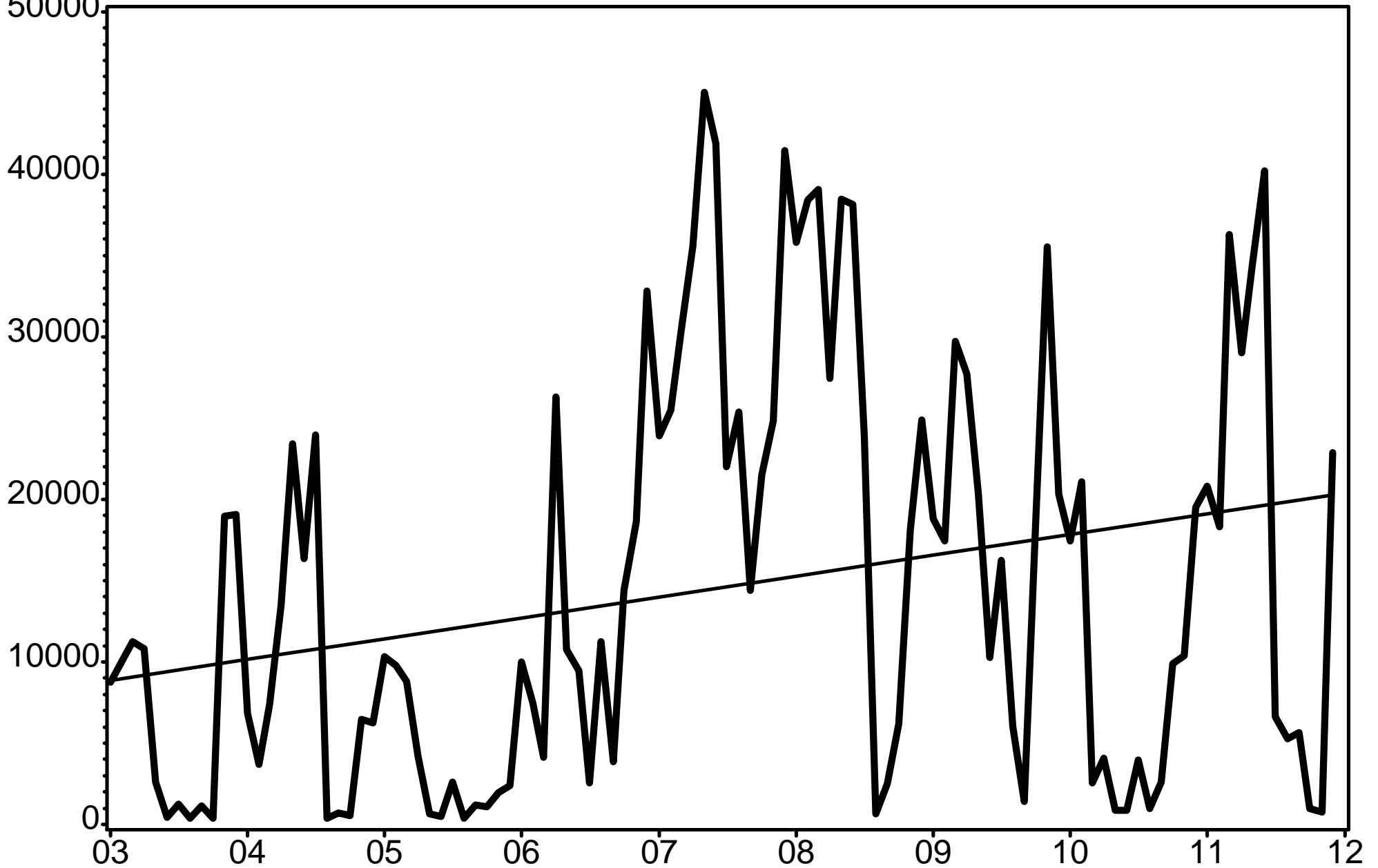
Tidal Caloosahatchee Trends Appendix - Display 1691

Monthly Data Time Series

for Surface Specific Conductance in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)
50000



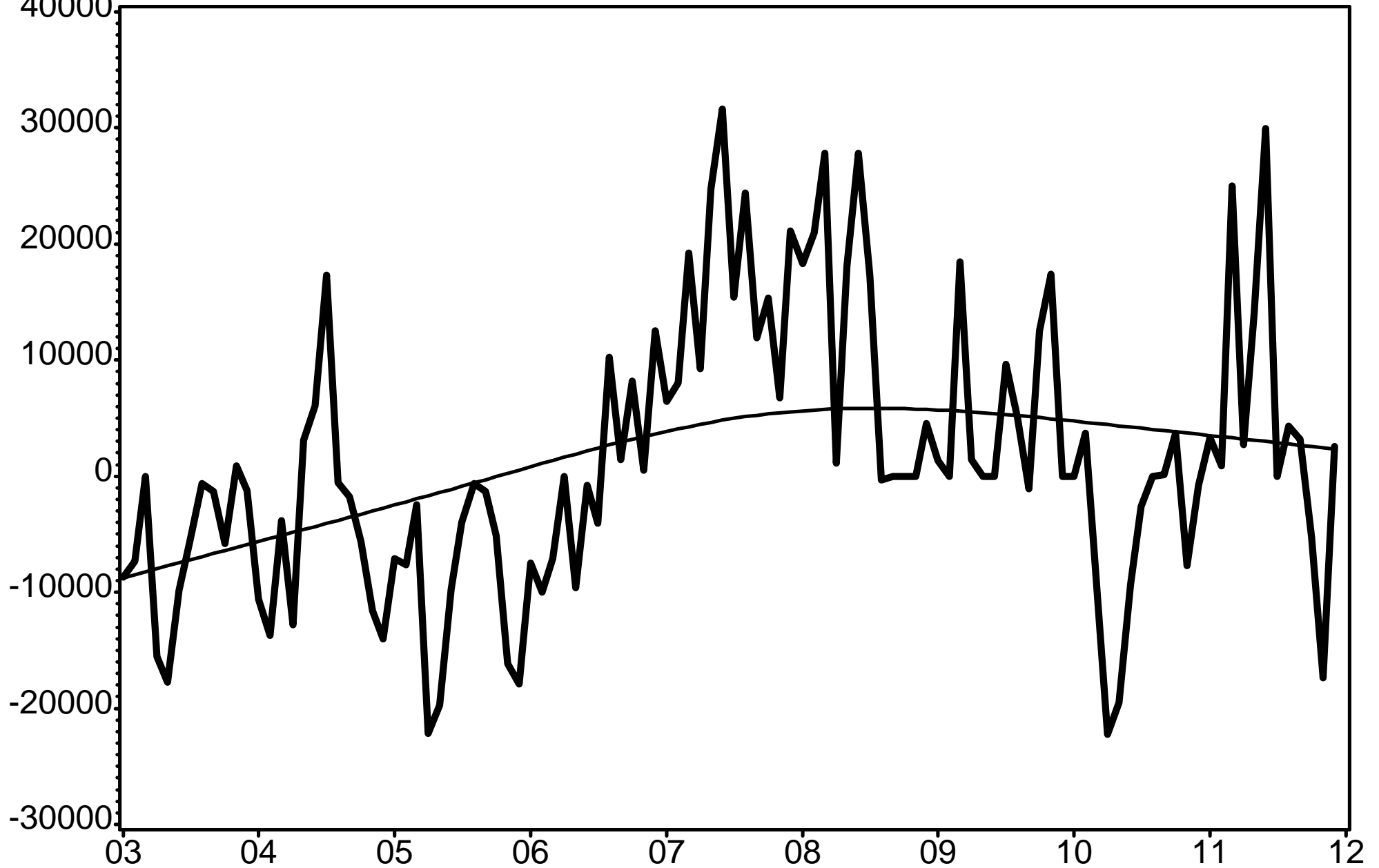
Tidal Caloosahatchee Trends Appendix - Display 1692

Monthly Data Time Series

for Surface Specific Conductance in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)

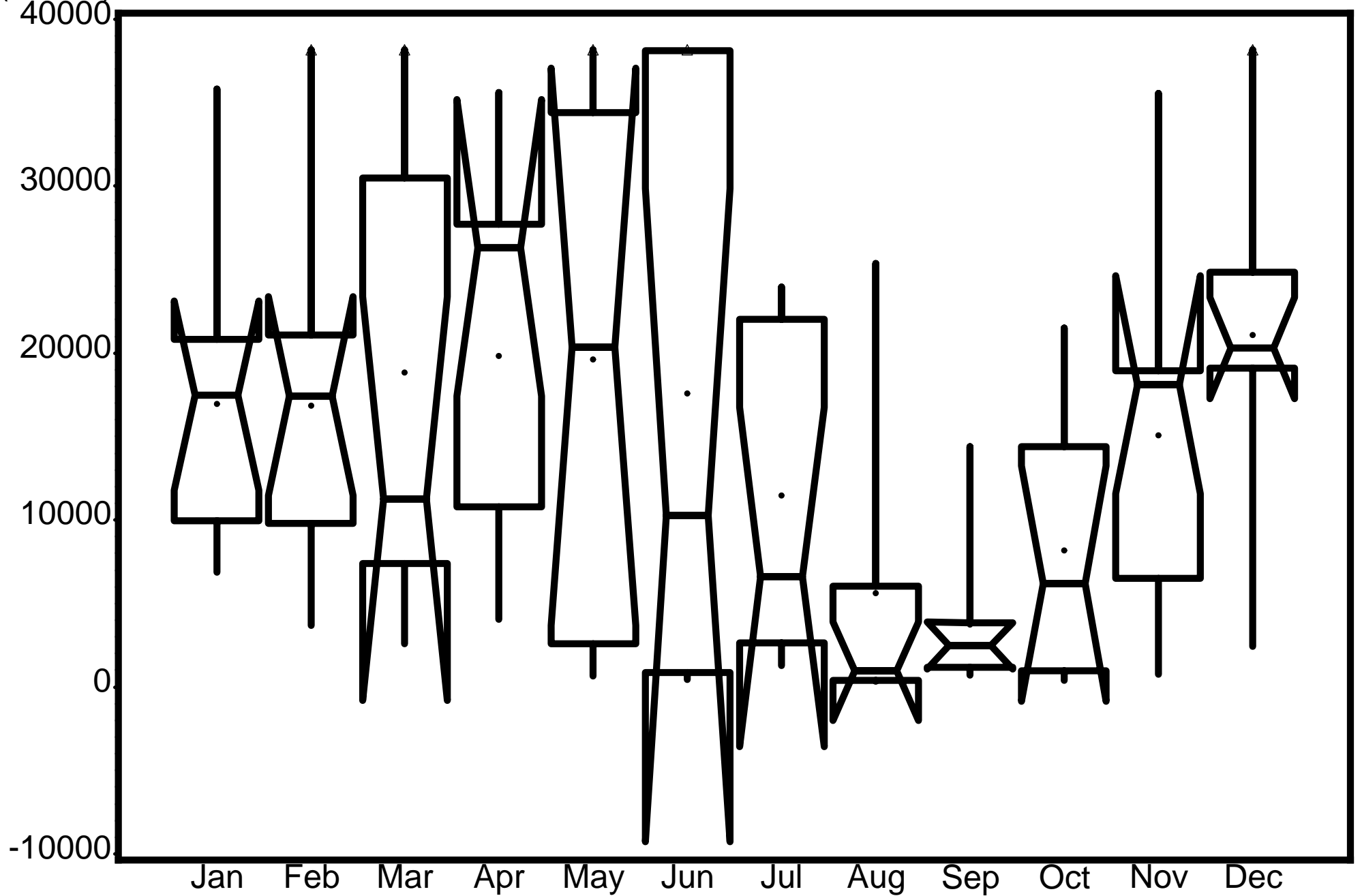


Tidal Caloosahatchee Trends Appendix - Display 1693

Seasonal Univariate Statistics

for Surface Specific Conductance in Tidal Caloosahatchee

COND
($\mu\text{S}/\text{cm}$)



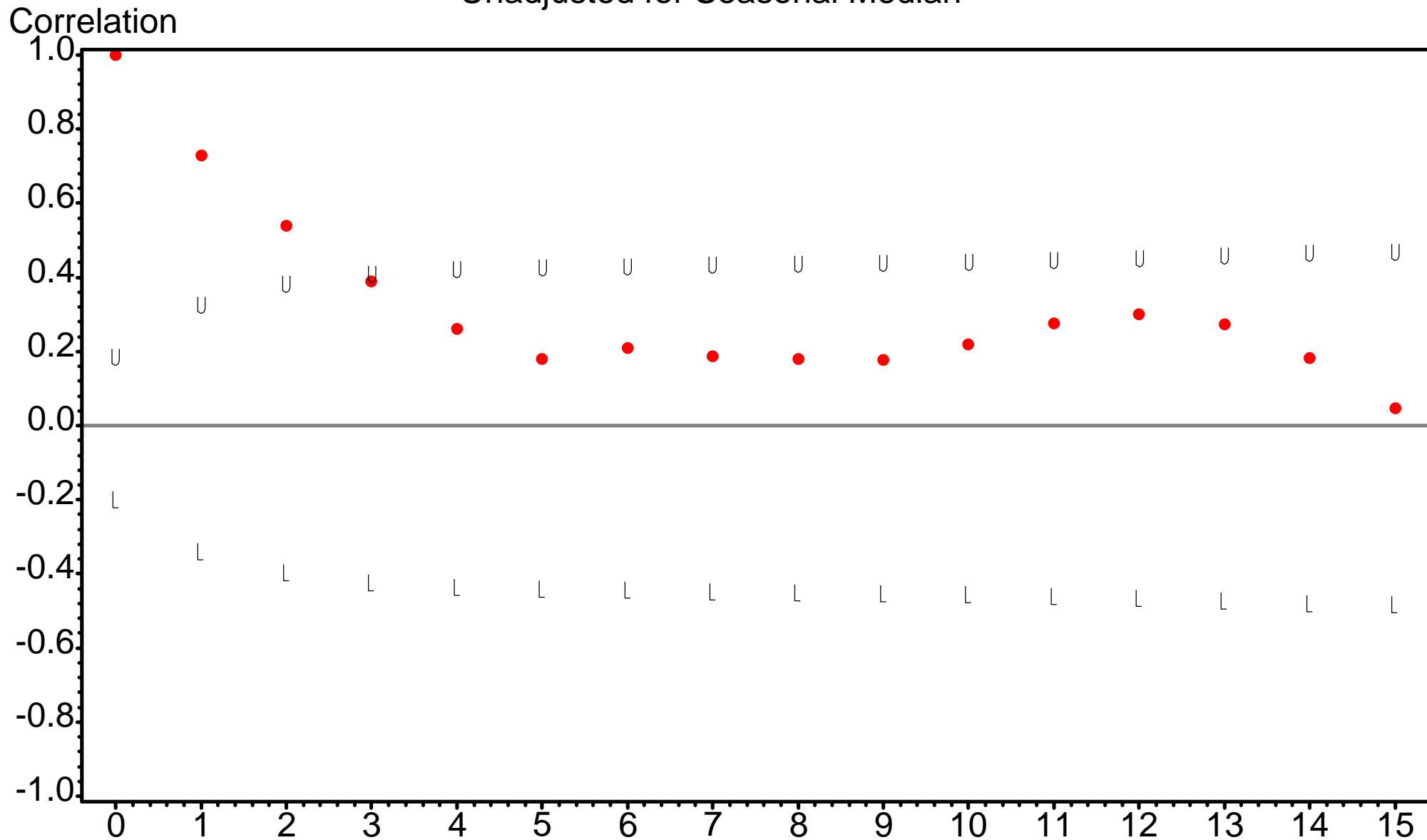
Tidal Caloosahatchee Trends Appendix - Display 1694
Autocorrelation Statistics for Surface Specific Conductance in Tidal Caloosahatchee

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.730	0.167	0.333	-0.333
2	0.539	0.194	0.388	-0.388
3	0.388	0.207	0.415	-0.415
4	0.260	0.214	0.428	-0.428
5	0.180	0.217	0.434	-0.434
6	0.209	0.218	0.437	-0.437
7	0.186	0.220	0.440	-0.440
8	0.180	0.222	0.443	-0.443
9	0.177	0.223	0.446	-0.446
10	0.220	0.224	0.449	-0.449
11	0.276	0.226	0.453	-0.453
12	0.301	0.229	0.459	-0.459
13	0.274	0.233	0.466	-0.466
14	0.181	0.236	0.472	-0.472
15	0.048	0.237	0.474	-0.474

Tidal Caloosahatchee Trends Appendix - Display 1695

Correlogram for Surface Specific Conductance in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1696
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.176	.007	.007	1079.35

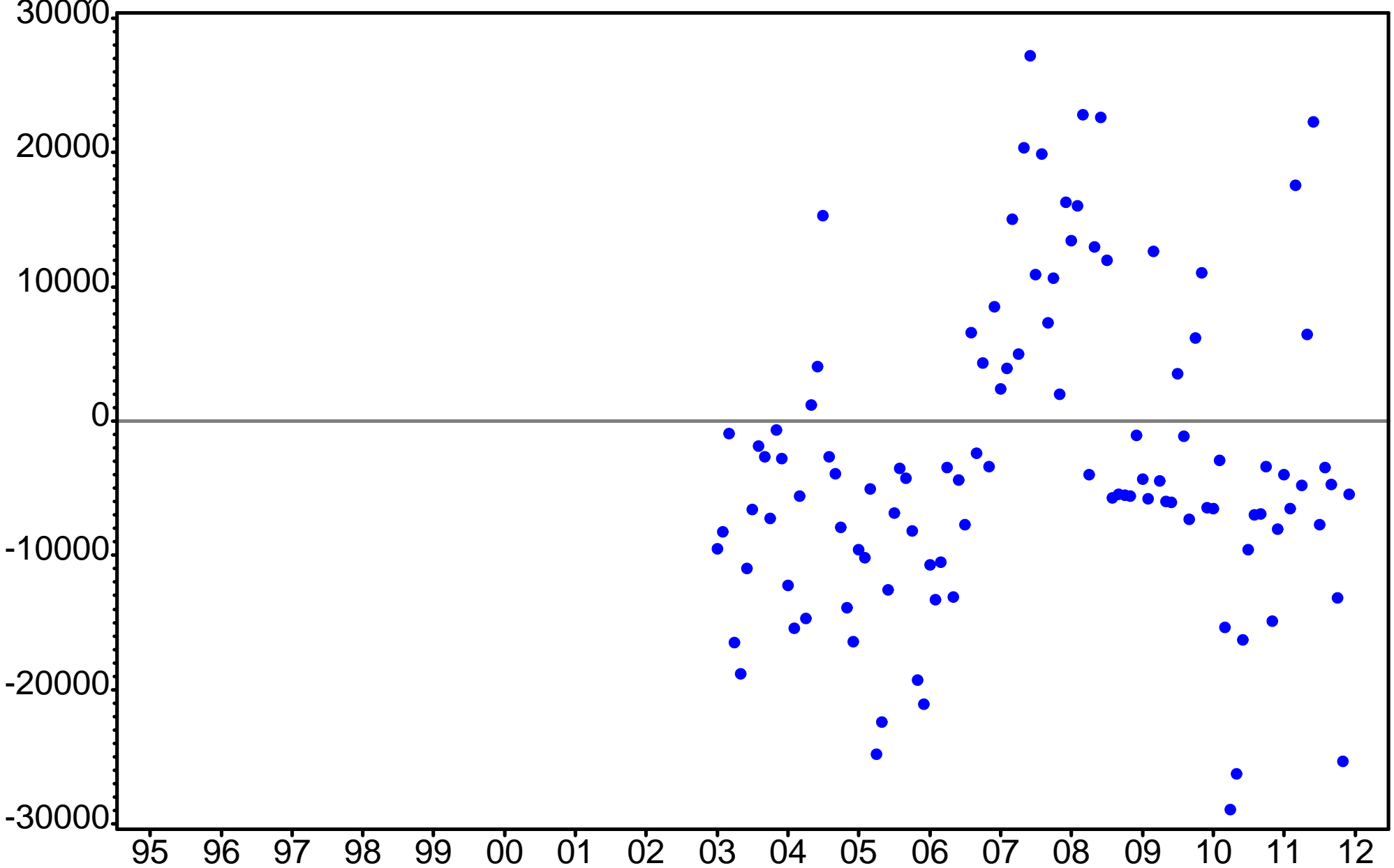
Tidal Caloosahatchee Trends Appendix - Display 1697
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.26852	.000538111	0.16495	813.385

Tidal Caloosahatchee Trends Appendix - Display 1698

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Adjusted Tidal Caloosahatchee

Adjusted
($\mu\text{S}/\text{cm}$)



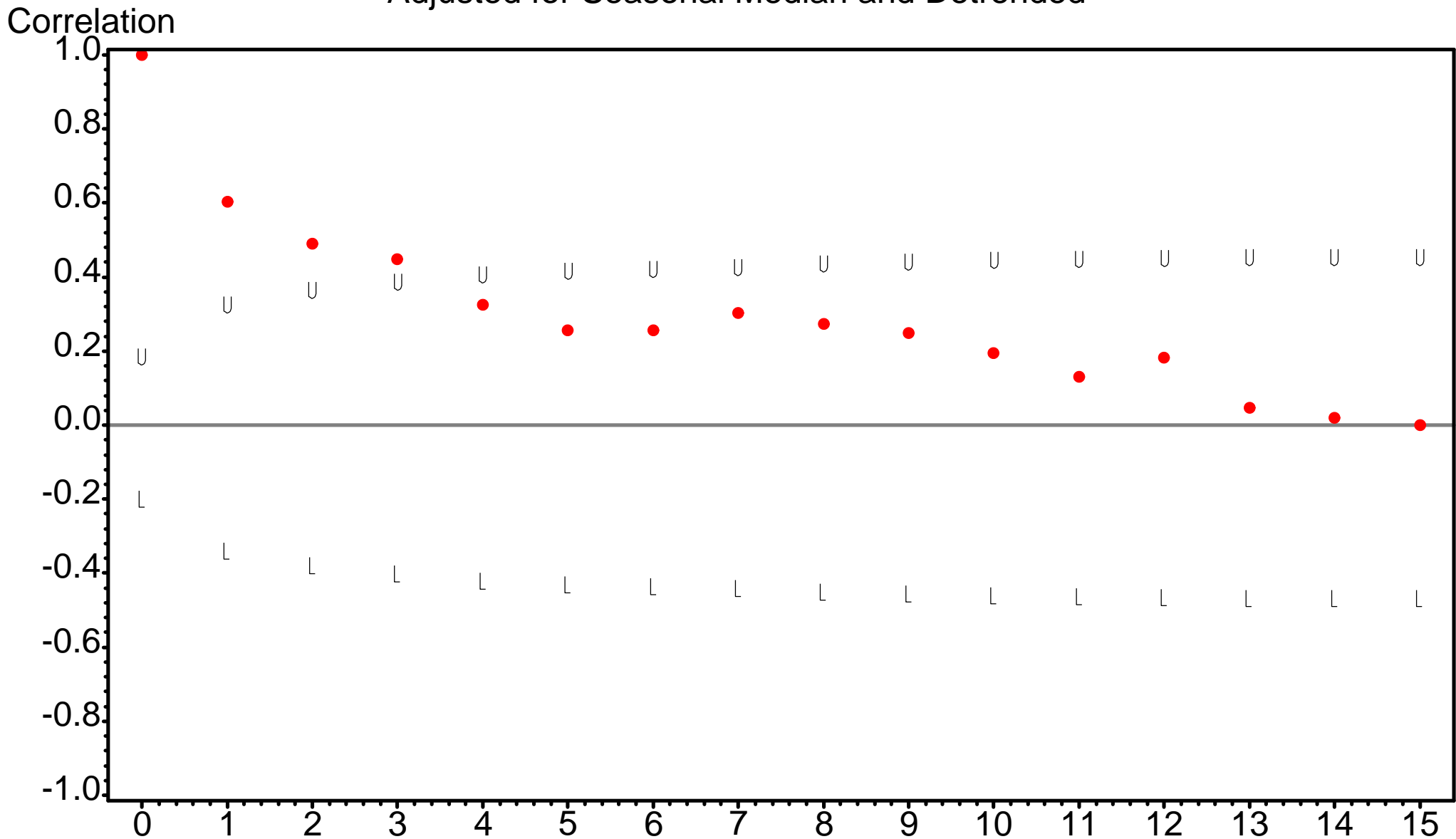
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1699
Autocorrelation Statistics for Surface Specific Conductance in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.603	0.167	0.333	-0.333
2	0.490	0.186	0.372	-0.372
3	0.448	0.197	0.395	-0.395
4	0.326	0.207	0.413	-0.413
5	0.256	0.211	0.423	-0.423
6	0.257	0.214	0.428	-0.428
7	0.302	0.217	0.434	-0.434
8	0.273	0.221	0.442	-0.442
9	0.249	0.224	0.448	-0.448
10	0.194	0.227	0.453	-0.453
11	0.131	0.228	0.456	-0.456
12	0.181	0.229	0.458	-0.458
13	0.046	0.230	0.460	-0.460
14	0.020	0.230	0.460	-0.460
15	0.000	0.230	0.460	-0.460

Tidal Caloosahatchee Trends Appendix - Display 1700

Correlogram for Surface Specific Conductance in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

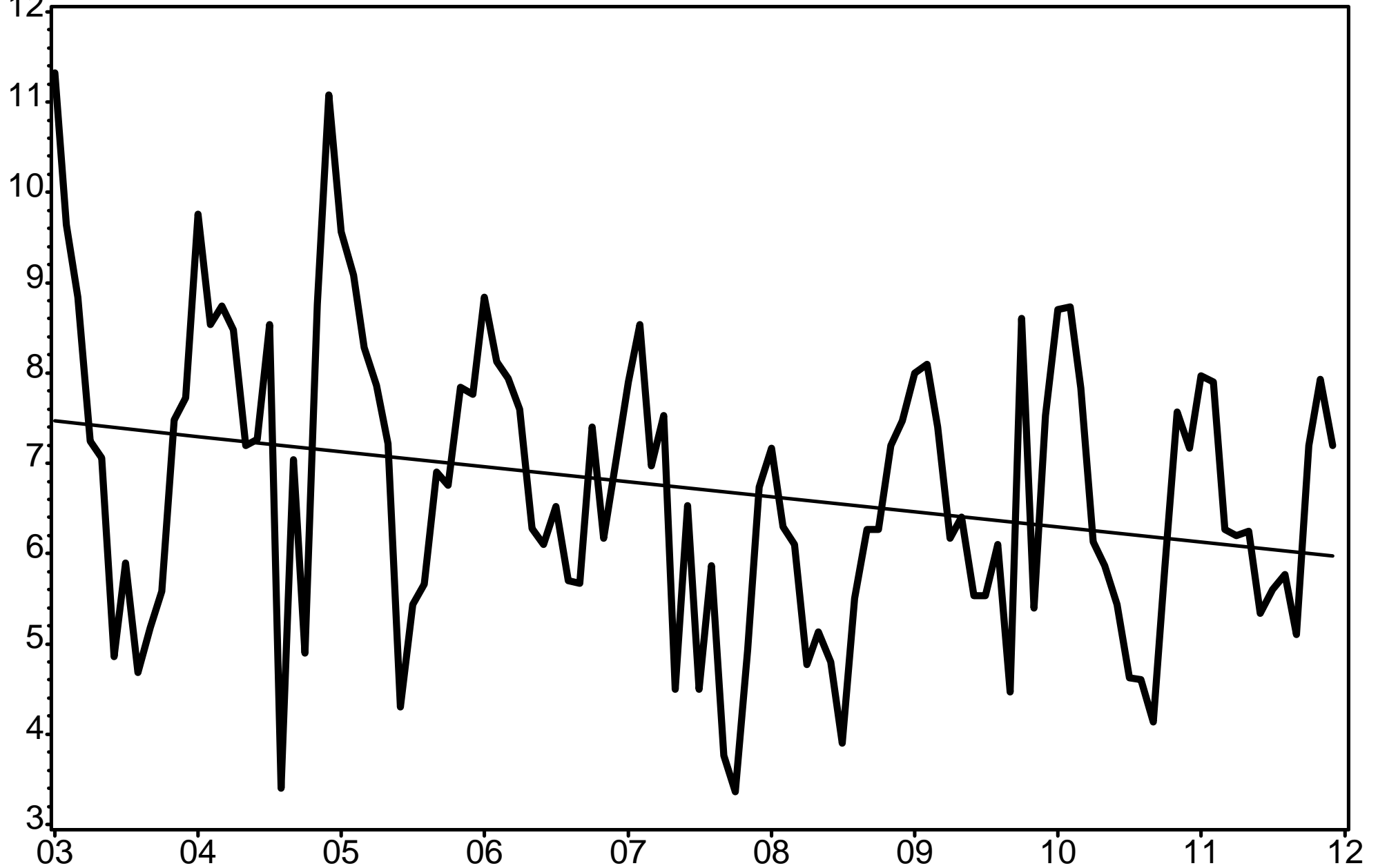
Tidal Caloosahatchee Trends Appendix - Display 1701

Monthly Data Time Series

for Surface Dissolved Oxygen in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



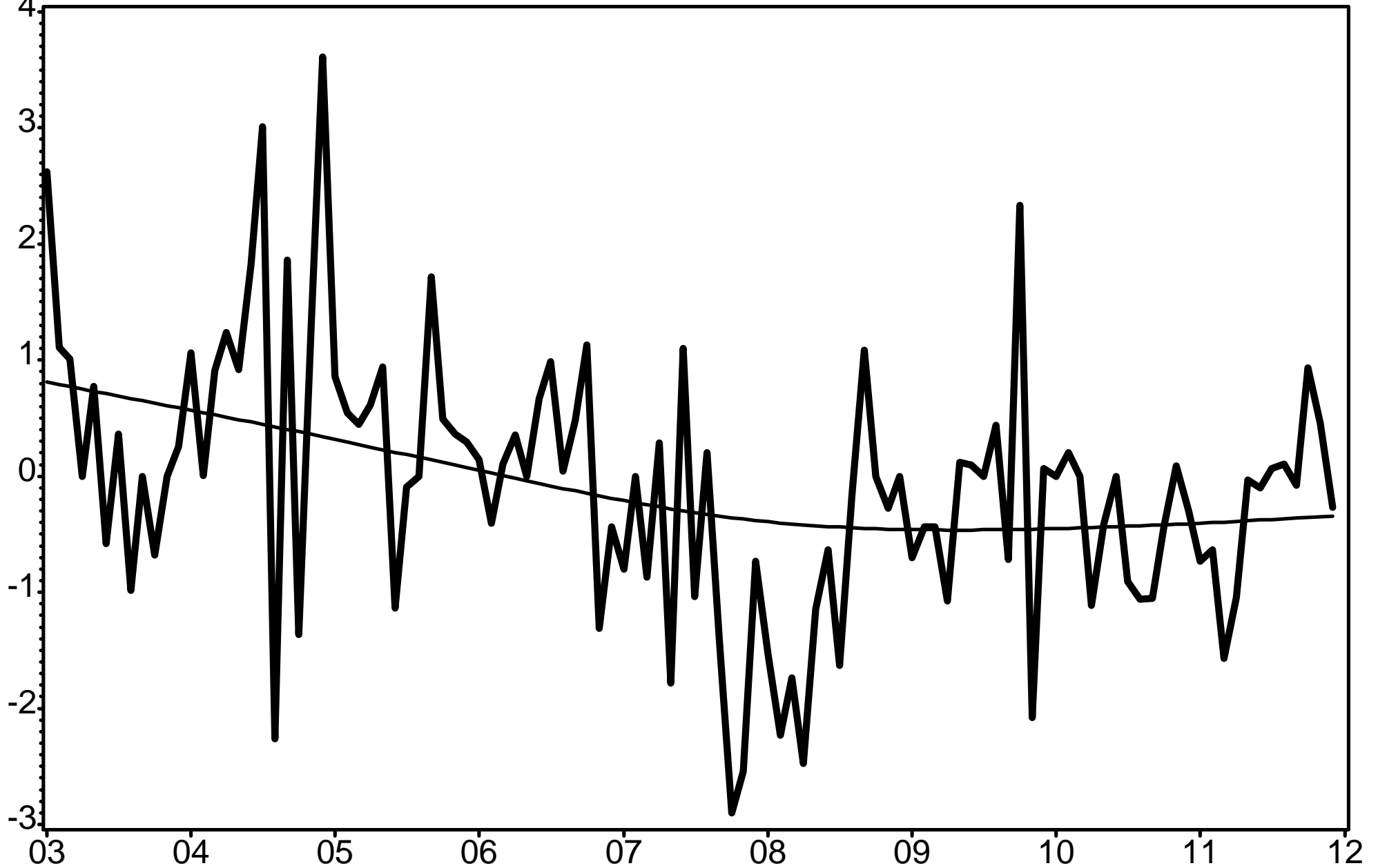
Tidal Caloosahatchee Trends Appendix - Display 1702

Monthly Data Time Series

for Surface Dissolved Oxygen in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

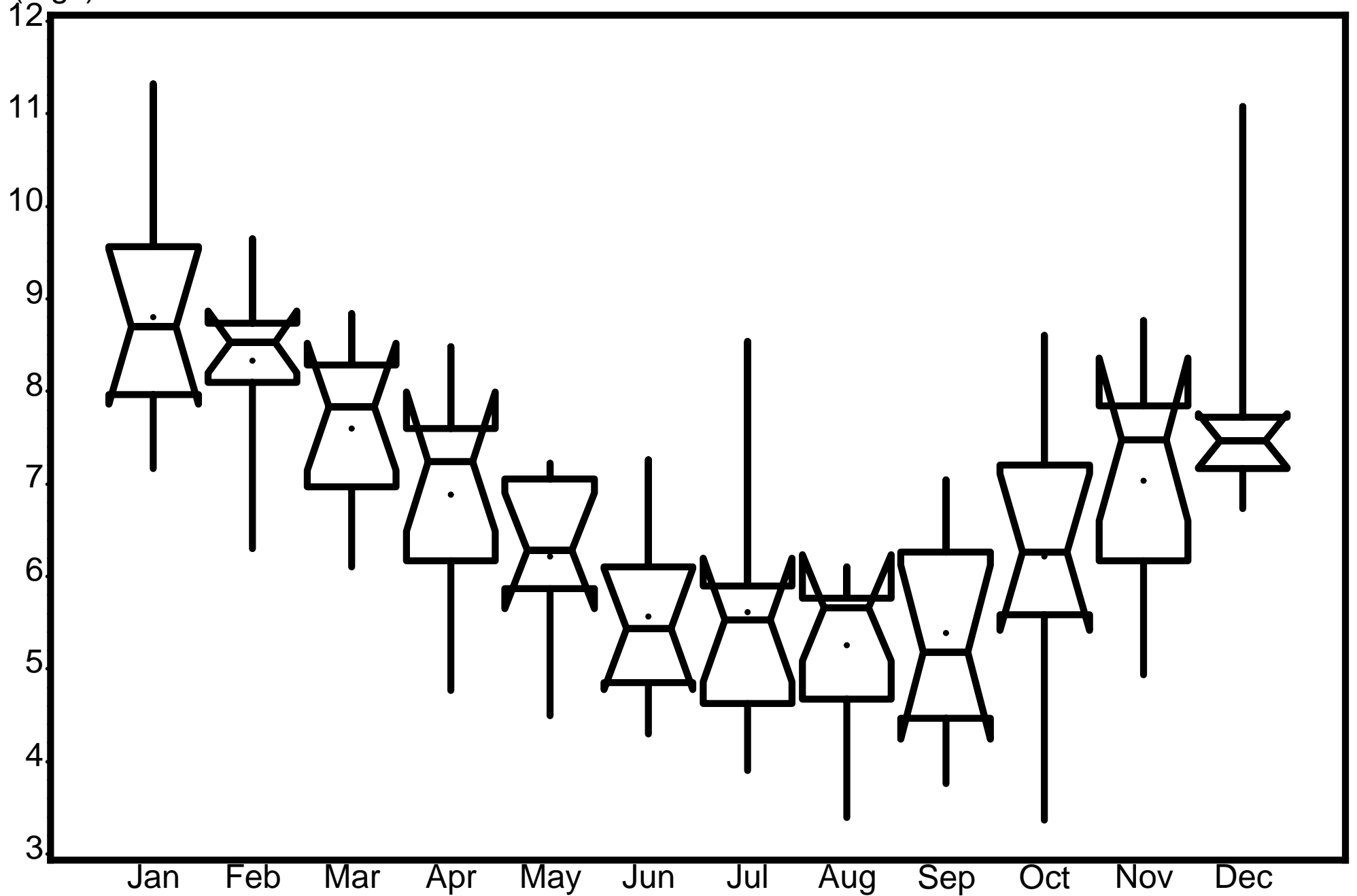


Tidal Caloosahatchee Trends Appendix - Display 1703

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Tidal Caloosahatchee

DO_mgl
(mg/l)



Tidal Caloosahatchee Trends Appendix - Display 1704

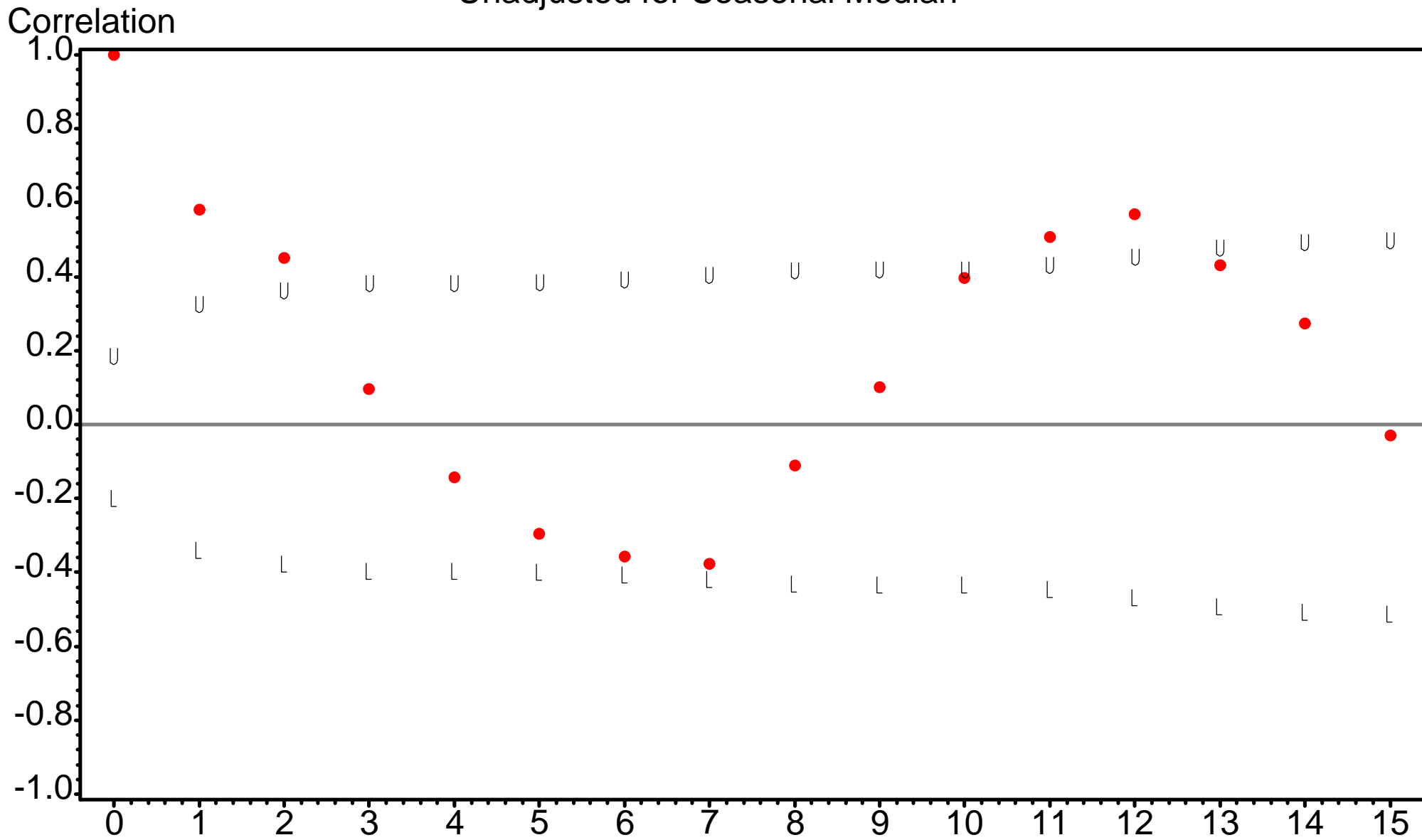
Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Caloosahatchee

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.580	0.167	0.333	-0.333
2	0.451	0.184	0.369	-0.369
3	0.096	0.194	0.389	-0.389
4	-0.143	0.195	0.390	-0.390
5	-0.296	0.196	0.392	-0.392
6	-0.358	0.200	0.400	-0.400
7	-0.376	0.206	0.411	-0.411
8	-0.110	0.212	0.424	-0.424
9	0.100	0.212	0.425	-0.425
10	0.396	0.213	0.426	-0.426
11	0.507	0.220	0.439	-0.439
12	0.570	0.230	0.460	-0.460
13	0.432	0.243	0.486	-0.486
14	0.274	0.250	0.500	-0.500
15	-0.029	0.253	0.505	-0.505

Tidal Caloosahatchee Trends Appendix - Display 1705

Correlogram for Surface Dissolved Oxygen in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1706
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.181	.006	.006	-0.177

Tidal Caloosahatchee Trends Appendix - Display 1707
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.26389	.000671779	0.069134	-0.16083

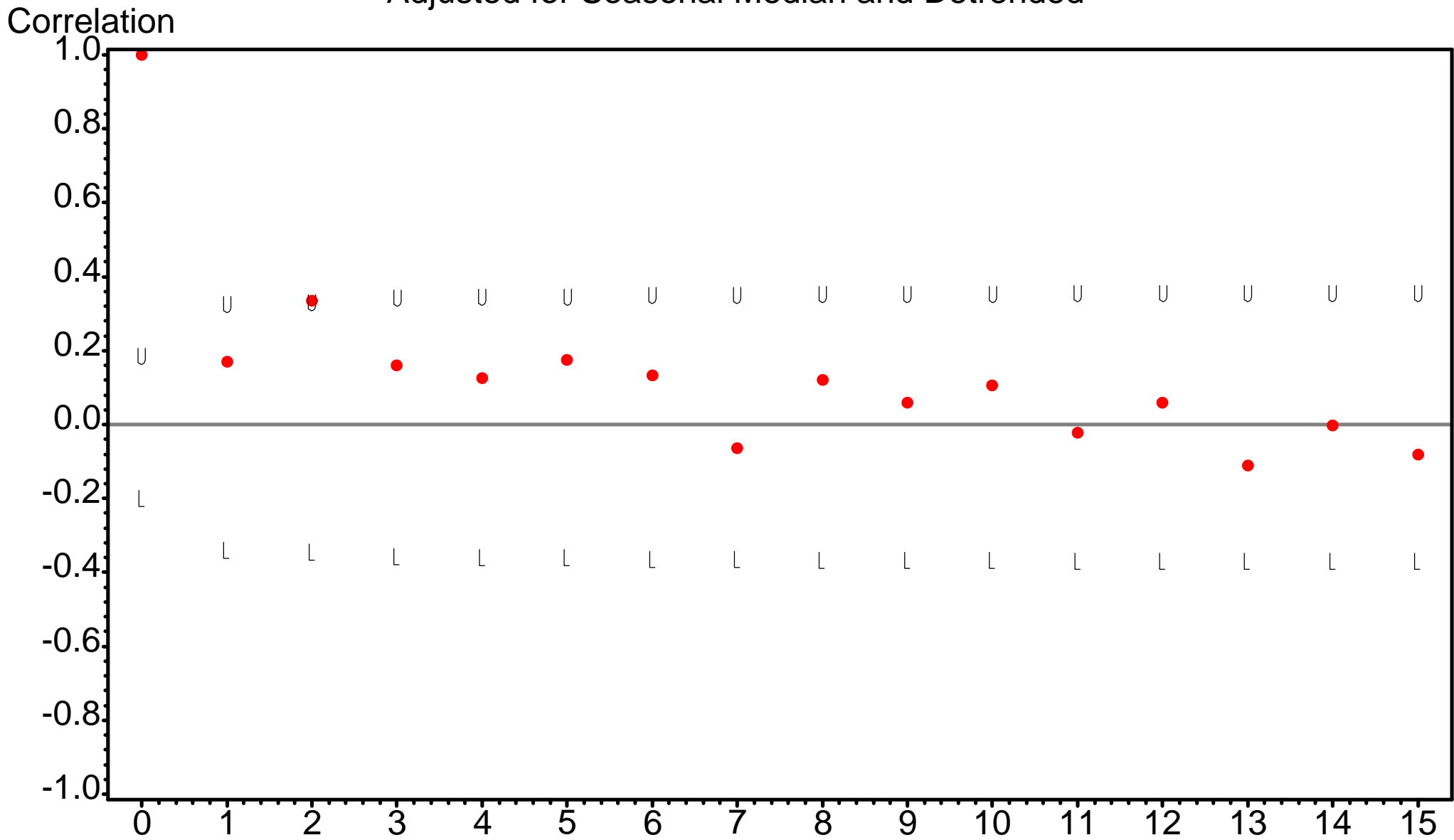
Tidal Caloosahatchee Trends Appendix - Display 1709
 Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Caloosahatchee
 Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.171	0.167	0.333	-0.333
2	0.336	0.168	0.337	-0.337
3	0.160	0.174	0.349	-0.349
4	0.126	0.176	0.351	-0.351
5	0.174	0.177	0.353	-0.353
6	0.134	0.178	0.356	-0.356
7	-0.063	0.179	0.358	-0.358
8	0.120	0.179	0.359	-0.359
9	0.059	0.180	0.360	-0.360
10	0.107	0.180	0.360	-0.360
11	-0.021	0.181	0.362	-0.362
12	0.058	0.181	0.362	-0.362
13	-0.111	0.181	0.362	-0.362
14	-0.002	0.182	0.363	-0.363
15	-0.080	0.182	0.363	-0.363

Tidal Caloosahatchee Trends Appendix - Display 1710

Correlogram for Surface Dissolved Oxygen in Tidal Caloosahatchee

Adjusted for Seasonal Median and Detrended



Lagged Dissolved Oxygen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

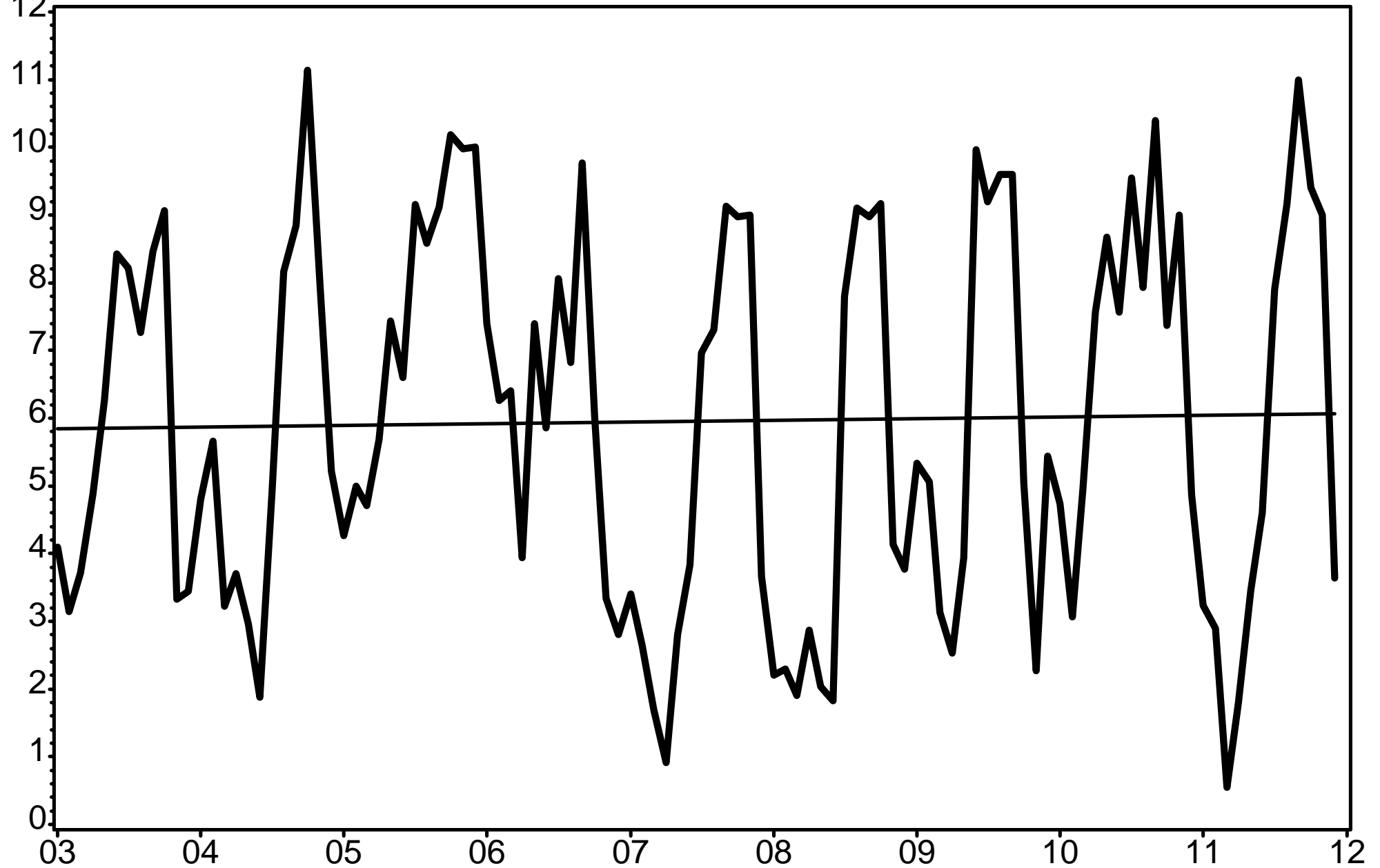
Tidal Caloosahatchee Trends Appendix - Display 1711

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

DSI_mgl
(mg/L)



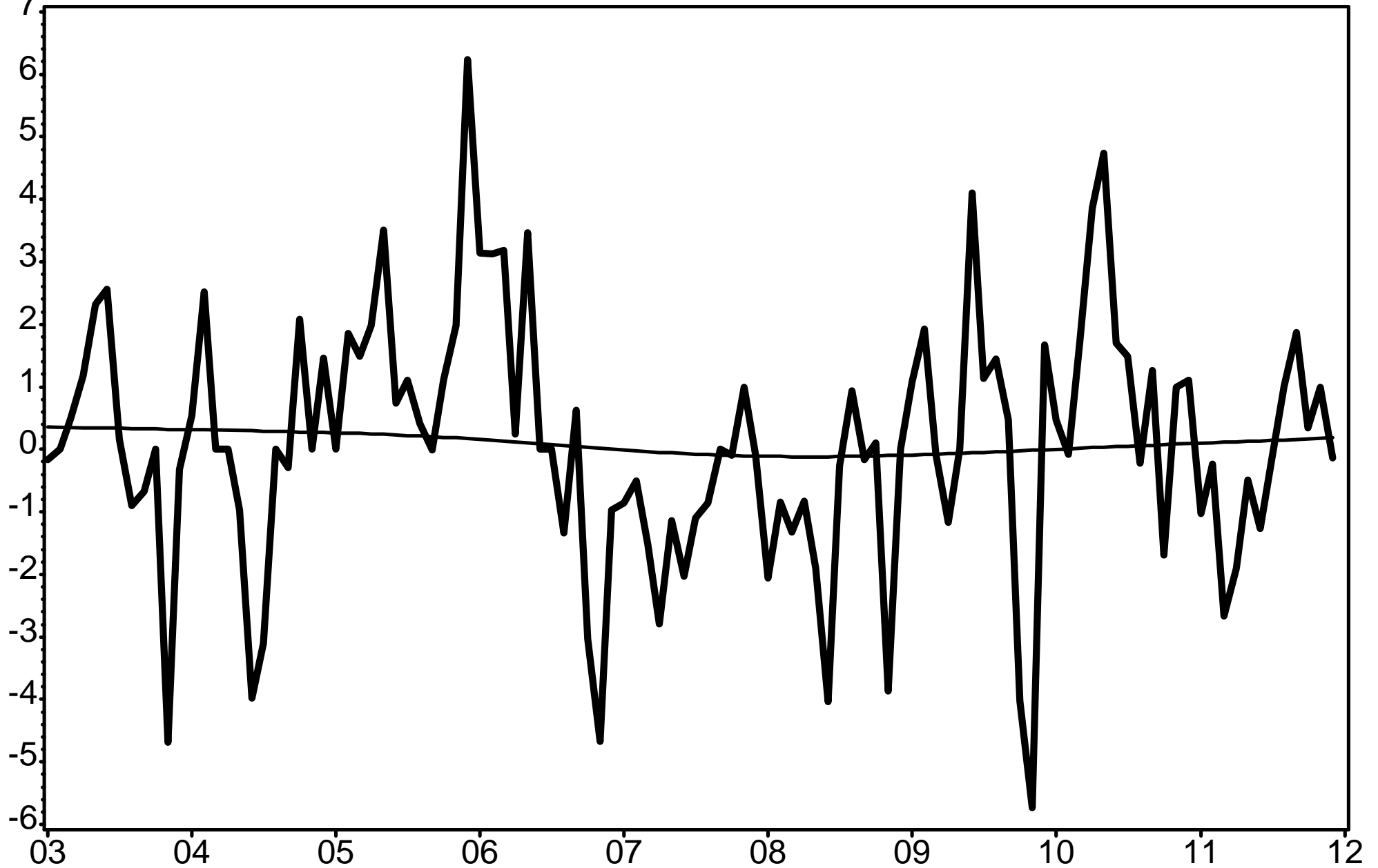
Tidal Caloosahatchee Trends Appendix - Display 1712

Monthly Data Time Series

for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
DSI_mgl
(mg/L)

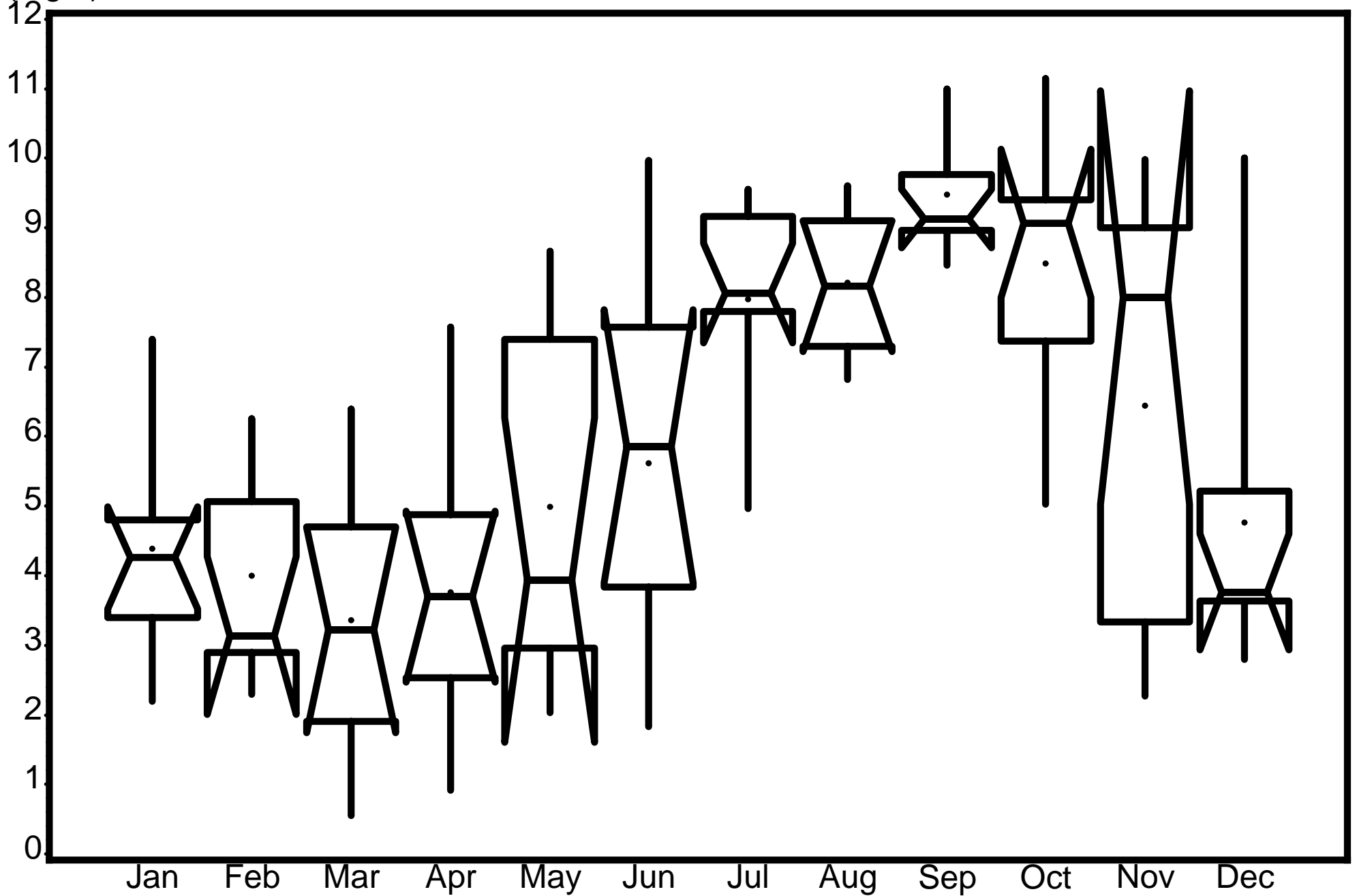


Tidal Caloosahatchee Trends Appendix - Display 1713

Seasonal Univariate Statistics

DSI_mgl
(mg/L)

for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee



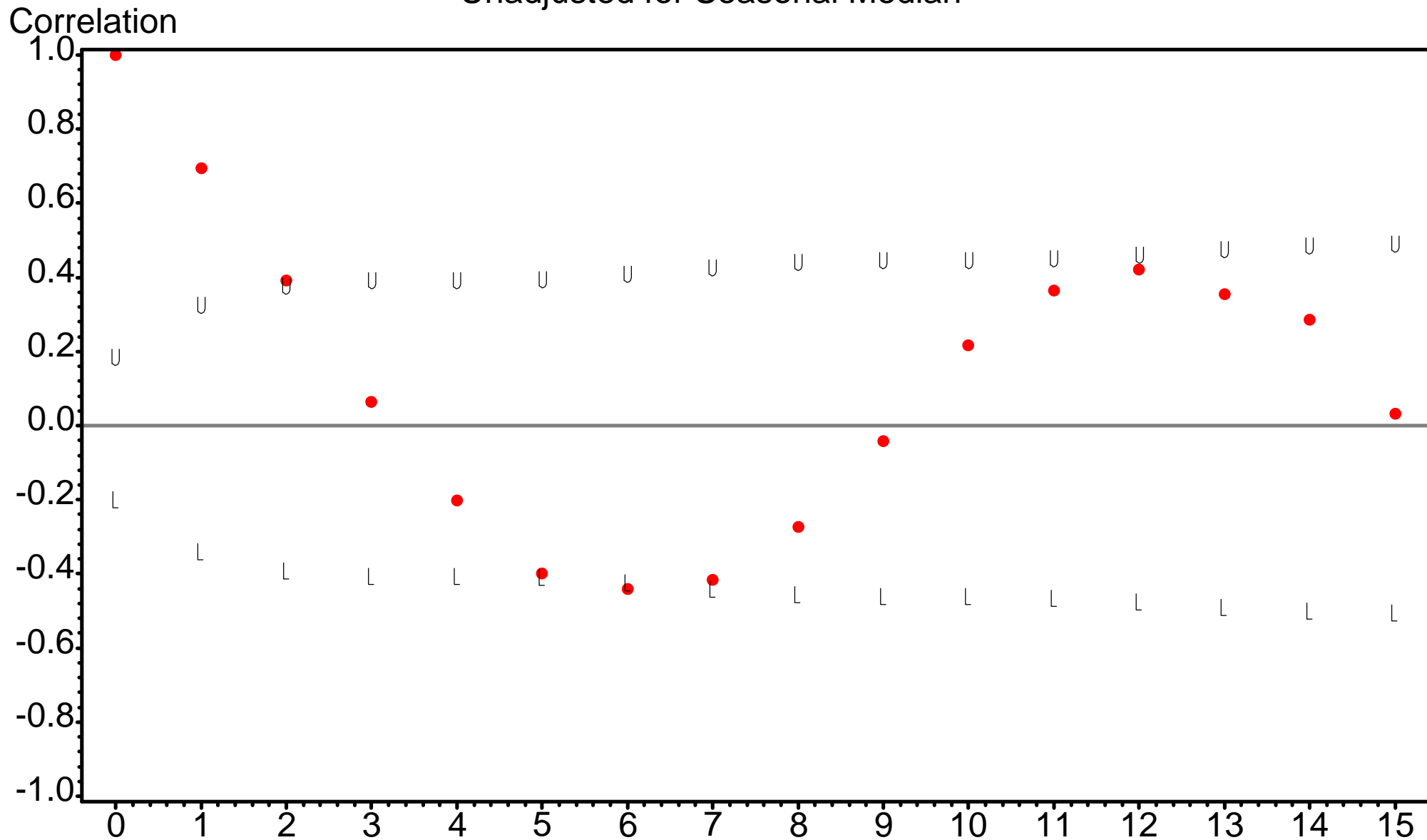
Tidal Caloosahatchee Trends Appendix - Display 1714
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.694	0.167	0.333	-0.333
2	0.391	0.192	0.383	-0.383
3	0.063	0.199	0.398	-0.398
4	-0.203	0.199	0.398	-0.398
5	-0.400	0.201	0.402	-0.402
6	-0.440	0.208	0.416	-0.416
7	-0.415	0.217	0.433	-0.433
8	-0.273	0.224	0.448	-0.448
9	-0.042	0.227	0.454	-0.454
10	0.217	0.227	0.454	-0.454
11	0.364	0.229	0.458	-0.458
12	0.421	0.234	0.468	-0.468
13	0.354	0.241	0.482	-0.482
14	0.285	0.246	0.492	-0.492
15	0.033	0.249	0.498	-0.498

Tidal Caloosahatchee Trends Appendix - Display 1715

Correlogram for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Dissolved Silica (as SiO₂)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1716
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

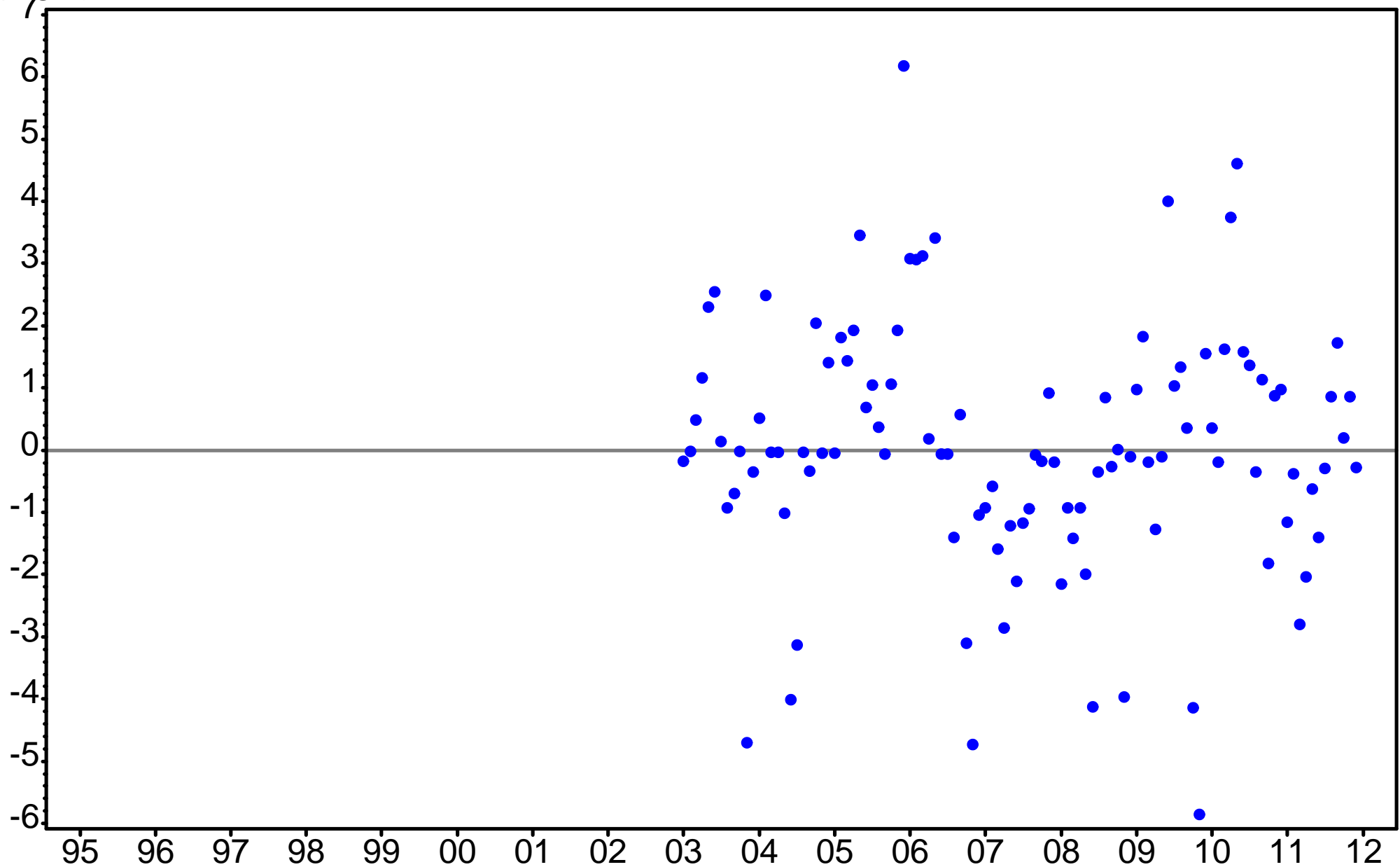
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.022	0.732	0.732	0.031

Tidal Caloosahatchee Trends Appendix - Display 1717
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.025463	0.76306	0.85607	0.014625

Tidal Caloosahatchee Trends Appendix - Display 1718

Time Series Plot of Surface Dissolved Silica (as SiO₂) Data Adjusted for Season and Detrended
Adjusted
(mg/L)
Tidal Caloosahatchee



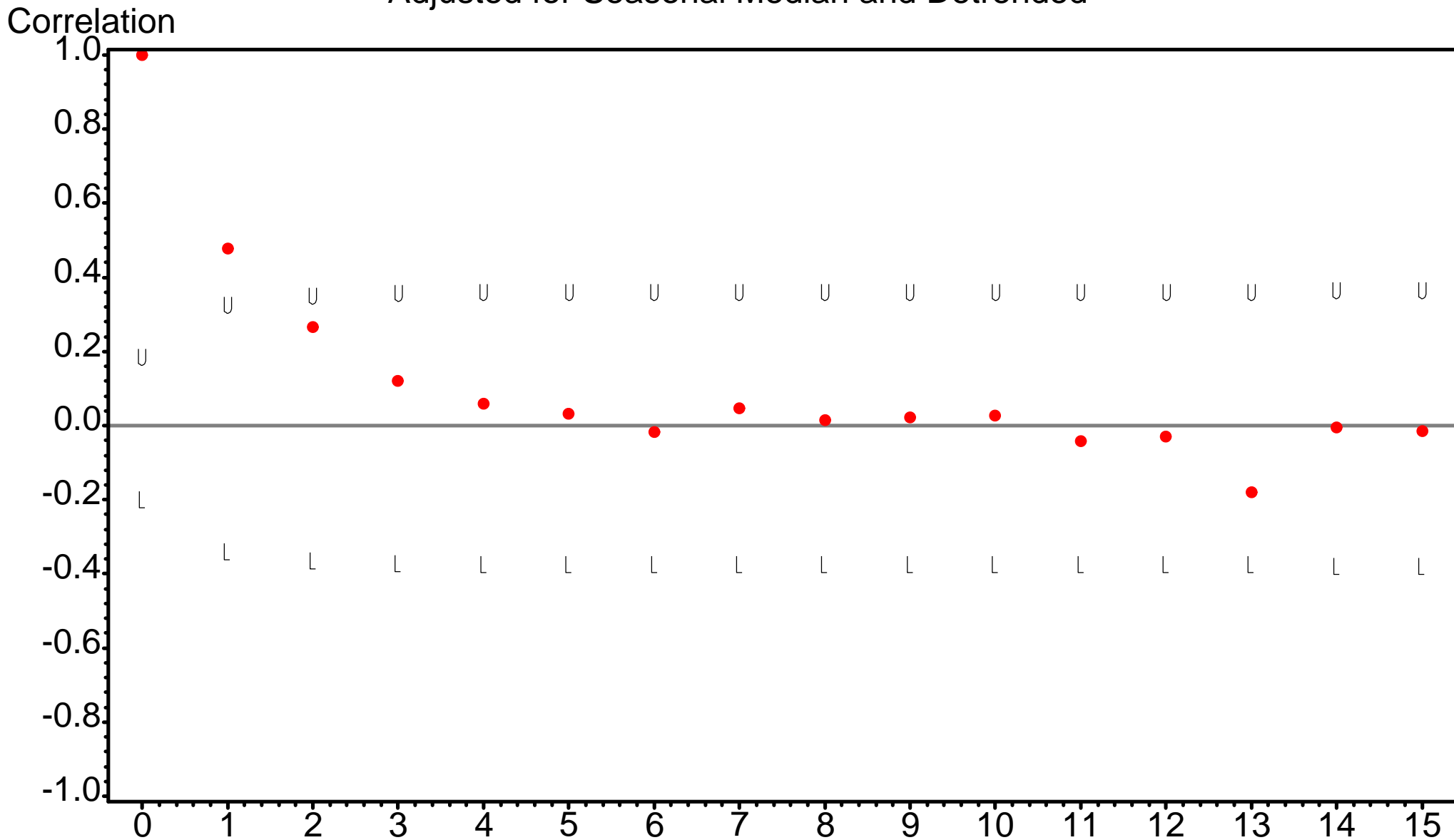
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1719
Autocorrelation Statistics for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Silica (as SiO ₂)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.478	0.167	0.333	-0.333
2	0.265	0.179	0.358	-0.358
3	0.120	0.183	0.365	-0.365
4	0.058	0.183	0.366	-0.366
5	0.032	0.183	0.367	-0.367
6	-0.016	0.183	0.367	-0.367
7	0.048	0.183	0.367	-0.367
8	0.016	0.184	0.367	-0.367
9	0.023	0.184	0.367	-0.367
10	0.026	0.184	0.367	-0.367
11	-0.041	0.184	0.367	-0.367
12	-0.030	0.184	0.368	-0.368
13	-0.180	0.184	0.368	-0.368
14	-0.005	0.185	0.371	-0.371
15	-0.015	0.185	0.371	-0.371

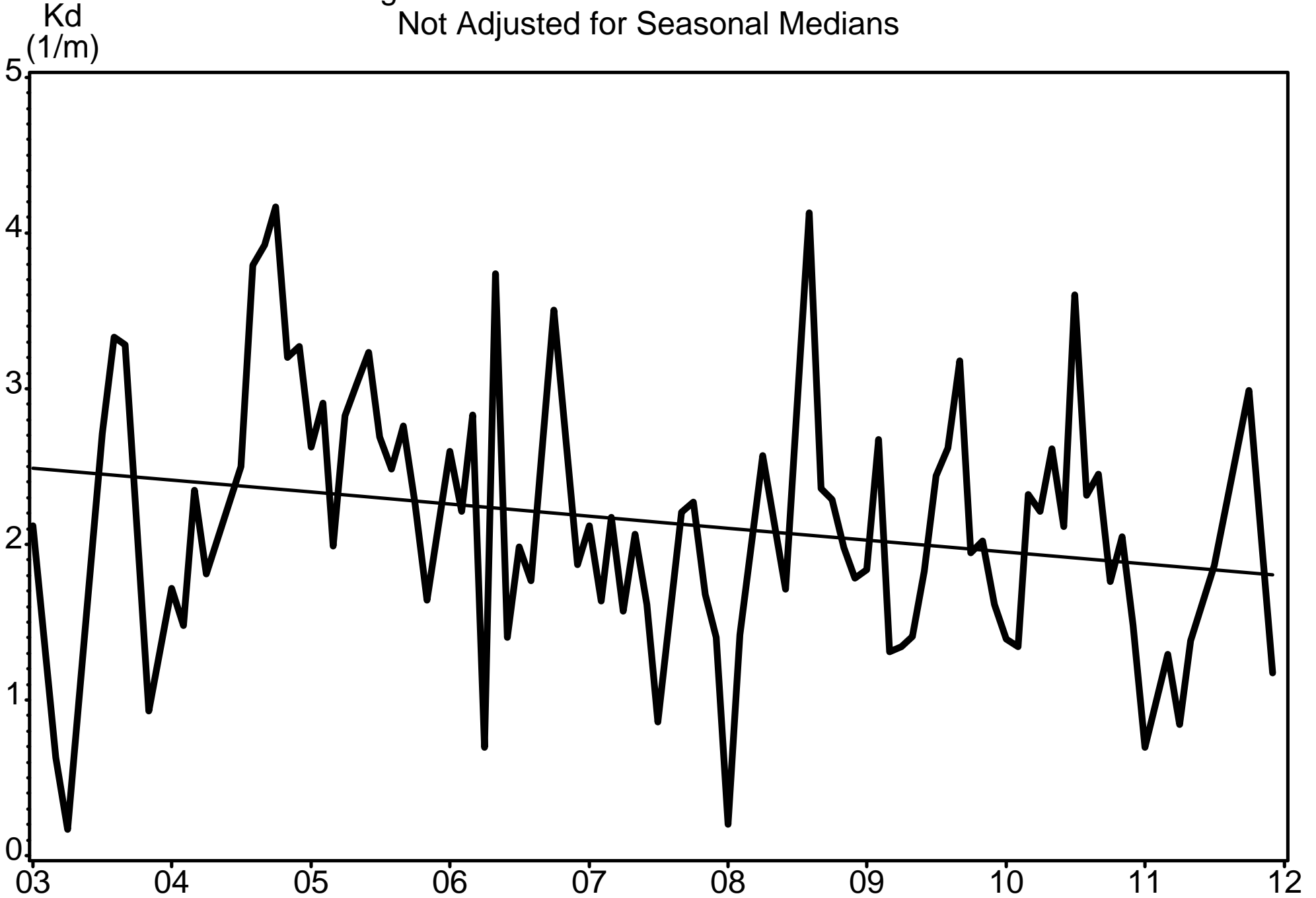
Tidal Caloosahatchee Trends Appendix - Display 1720

Correlogram for Surface Dissolved Silica (as SiO₂) in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1721
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians

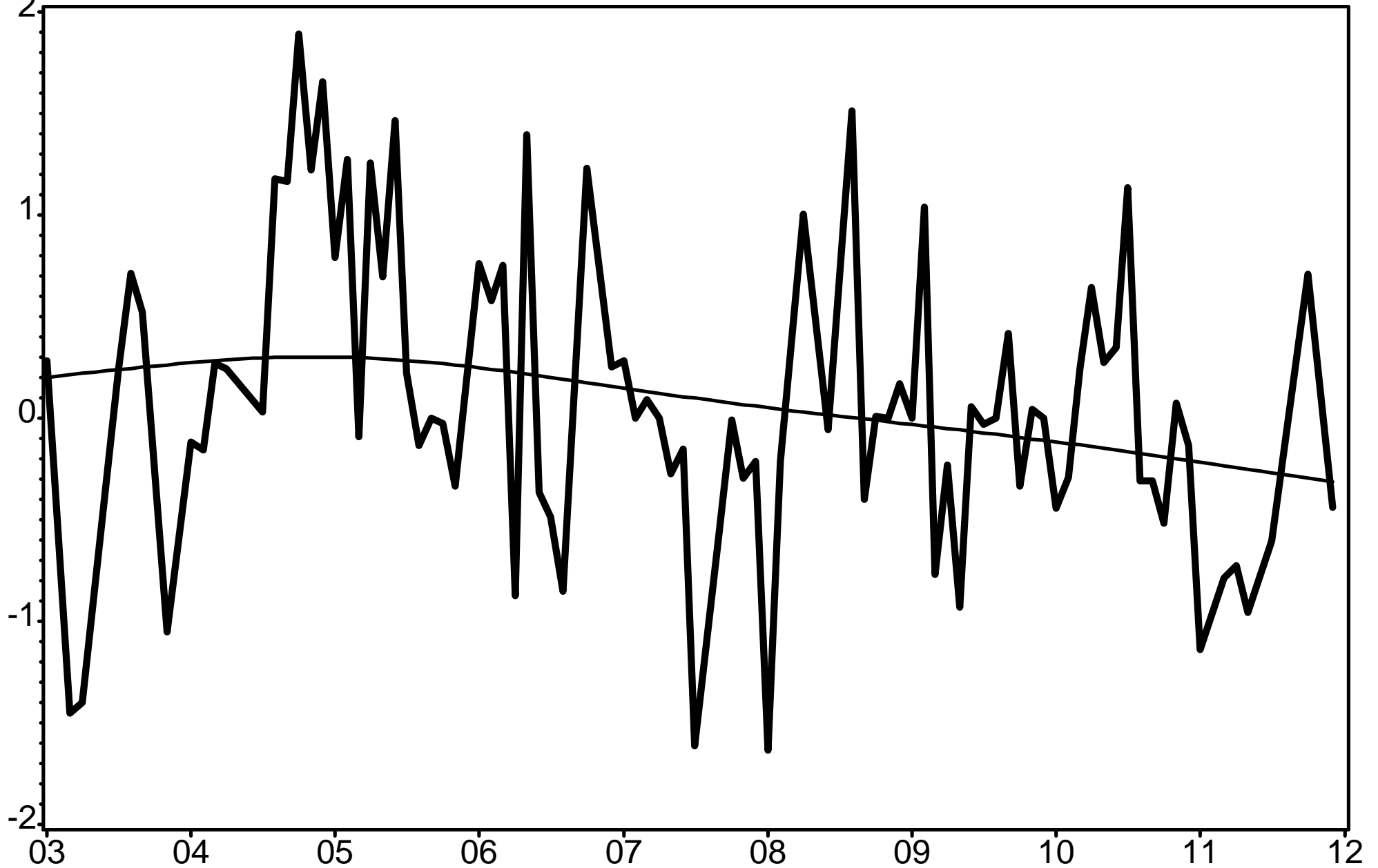


Tidal Caloosahatchee Trends Appendix - Display 1722

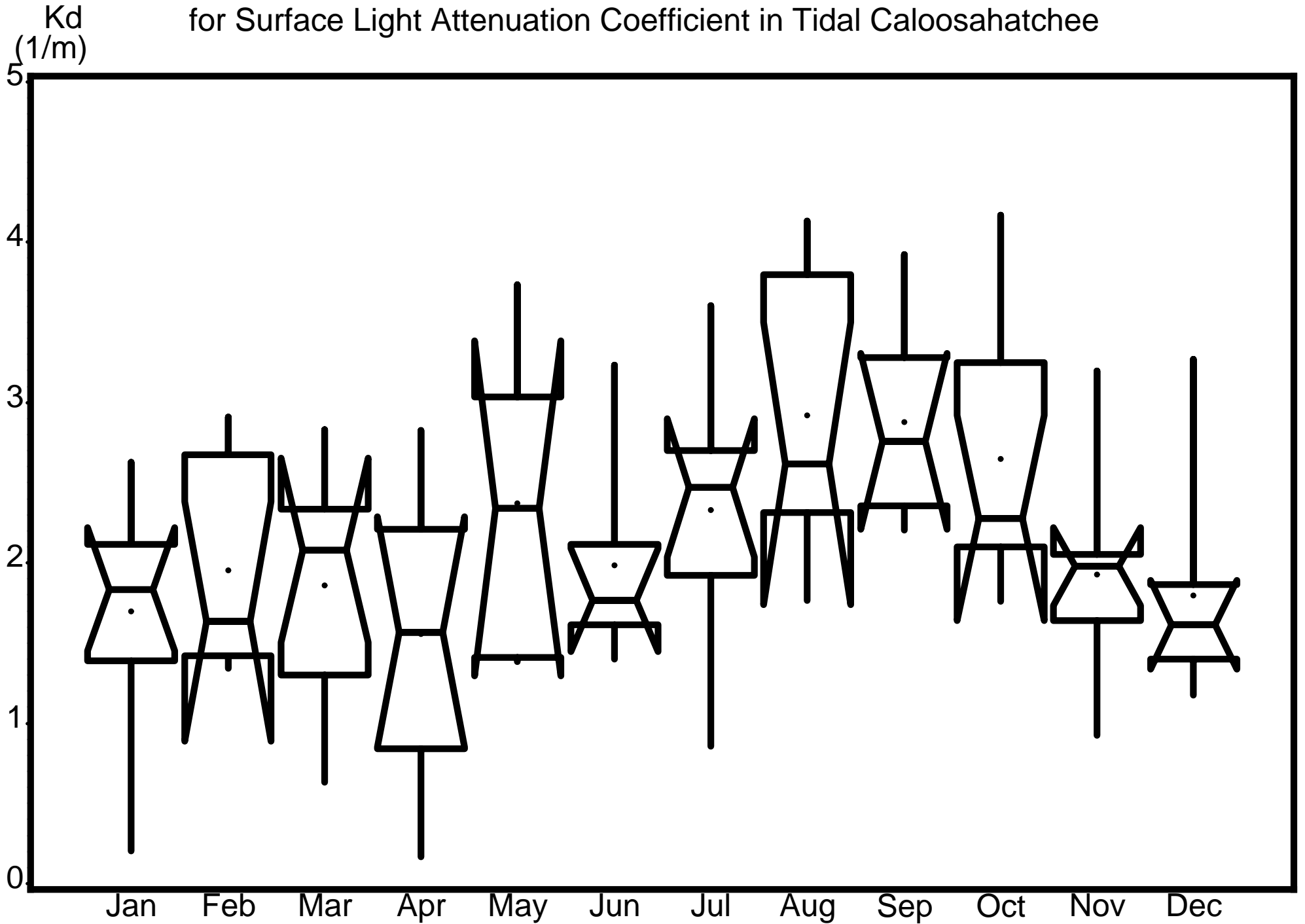
Monthly Data Time Series

Adjusted
Kd
(1/m)

for Surface Light Attenuation Coefficient in Tidal Caloosahatchee
Adjusted for Seasonal Medians



Tidal Caloosahatchee Trends Appendix - Display 1723
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Tidal Caloosahatchee



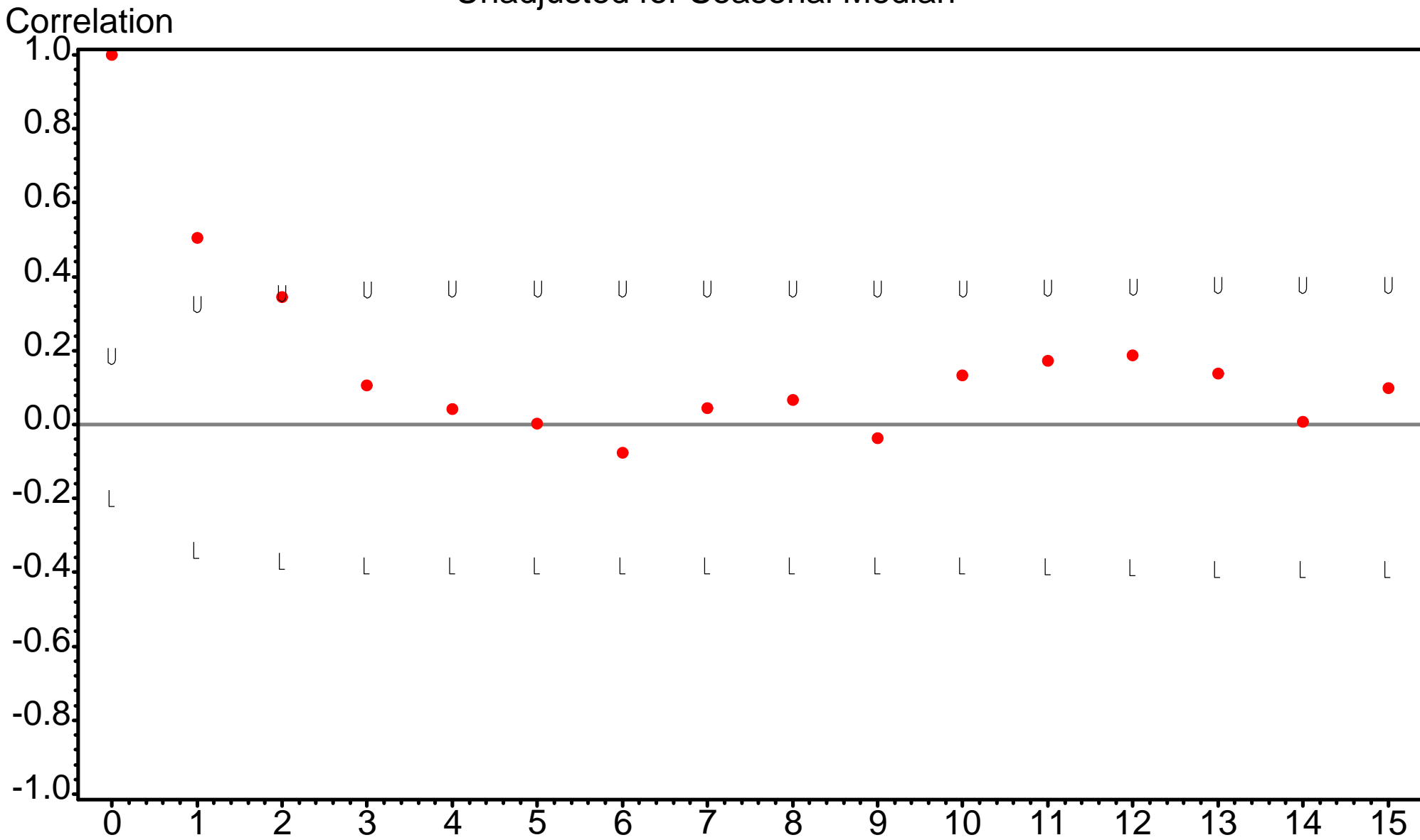
Tidal Caloosahatchee Trends Appendix - Display 1724
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Caloosahatchee

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.505	0.167	0.333	-0.333
2	0.345	0.180	0.361	-0.361
3	0.105	0.186	0.373	-0.373
4	0.042	0.187	0.374	-0.374
5	0.002	0.187	0.374	-0.374
6	-0.076	0.187	0.374	-0.374
7	0.045	0.187	0.374	-0.374
8	0.067	0.187	0.375	-0.375
9	-0.036	0.188	0.375	-0.375
10	0.133	0.188	0.375	-0.375
11	0.172	0.188	0.377	-0.377
12	0.188	0.190	0.380	-0.380
13	0.138	0.192	0.383	-0.383
14	0.008	0.193	0.385	-0.385
15	0.098	0.193	0.385	-0.385

Tidal Caloosahatchee Trends Appendix - Display 1725

Correlogram for Surface Light Attenuation Coefficient in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1726
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

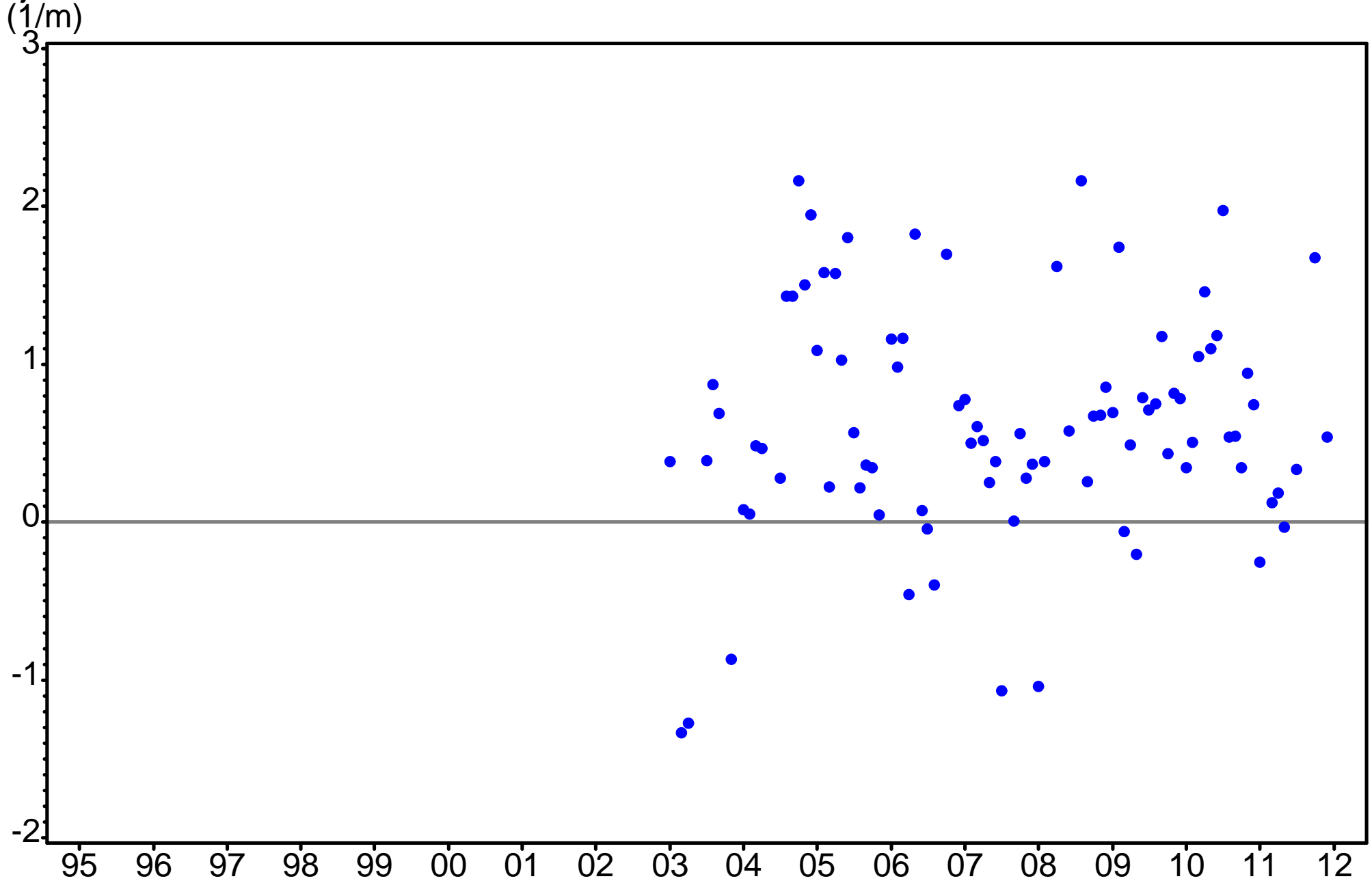
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.2	.006	.006	-0.103

Tidal Caloosahatchee Trends Appendix - Display 1727
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.21650	0.015675	0.066277	-0.0988

Tidal Caloosahatchee Trends Appendix - Display 1728

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Tidal Caloosahatchee



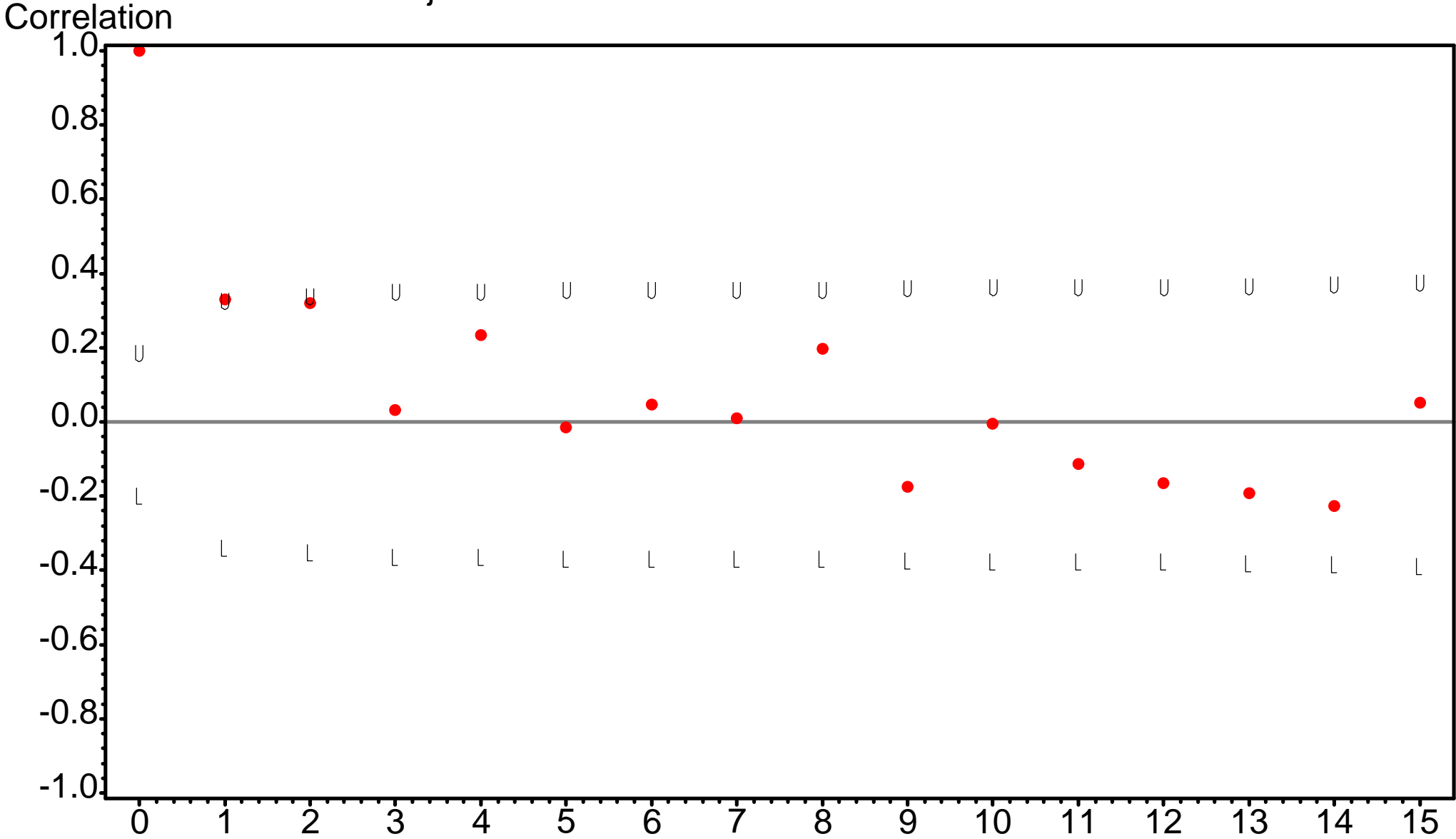
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1729
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.331	0.167	0.333	-0.333
2	0.321	0.173	0.345	-0.345
3	0.031	0.178	0.356	-0.356
4	0.234	0.178	0.356	-0.356
5	-0.015	0.181	0.362	-0.362
6	0.047	0.181	0.362	-0.362
7	0.010	0.181	0.362	-0.362
8	0.196	0.181	0.362	-0.362
9	-0.176	0.183	0.366	-0.366
10	-0.005	0.185	0.369	-0.369
11	-0.113	0.185	0.369	-0.369
12	-0.164	0.185	0.370	-0.370
13	-0.192	0.187	0.373	-0.373
14	-0.227	0.188	0.377	-0.377
15	0.051	0.191	0.382	-0.382

Tidal Caloosahatchee Trends Appendix - Display 1730

Correlogram for Surface Light Attenuation Coefficient in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

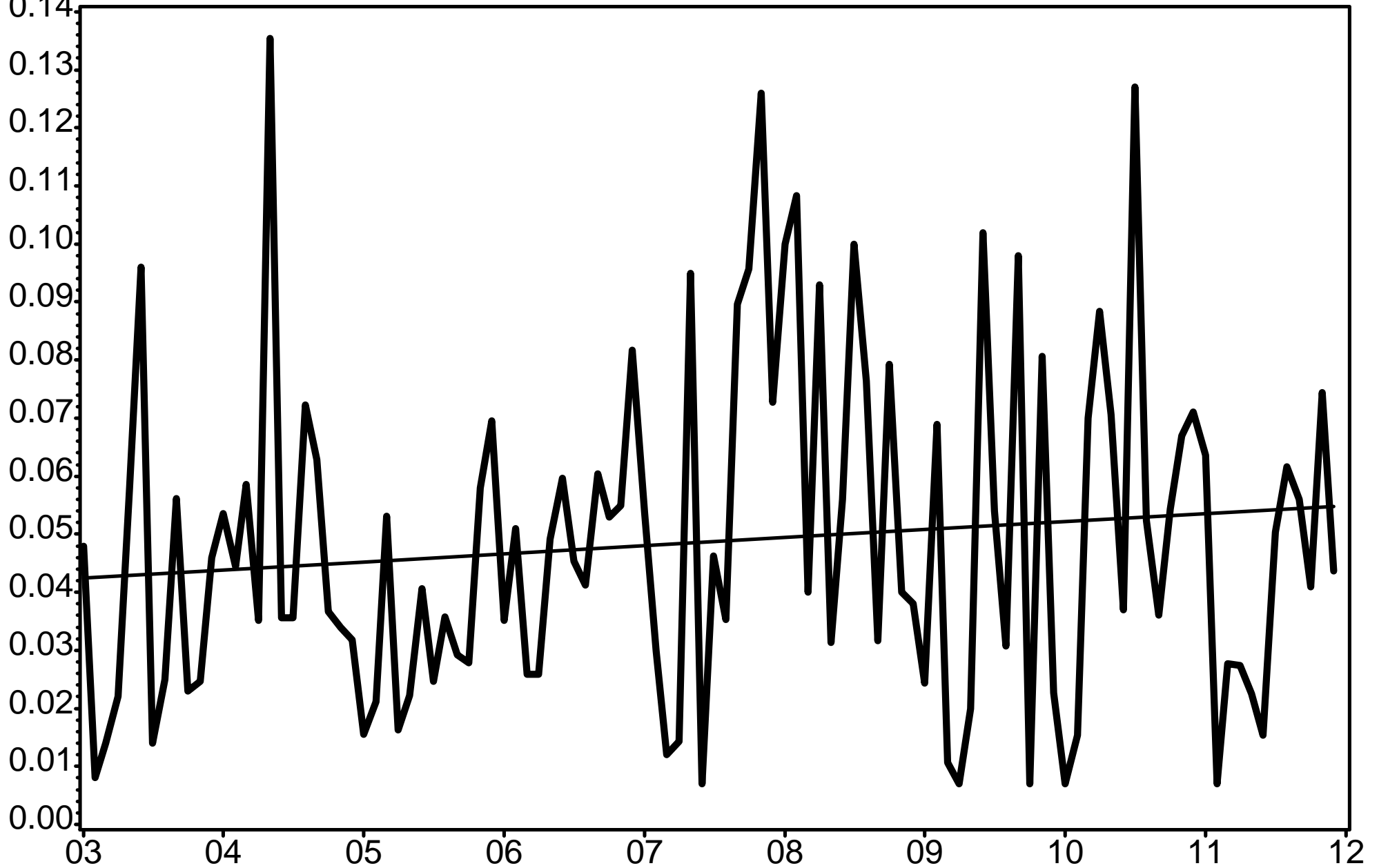
Tidal Caloosahatchee Trends Appendix - Display 1731

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

NH₃_mg/l
(mg/l)



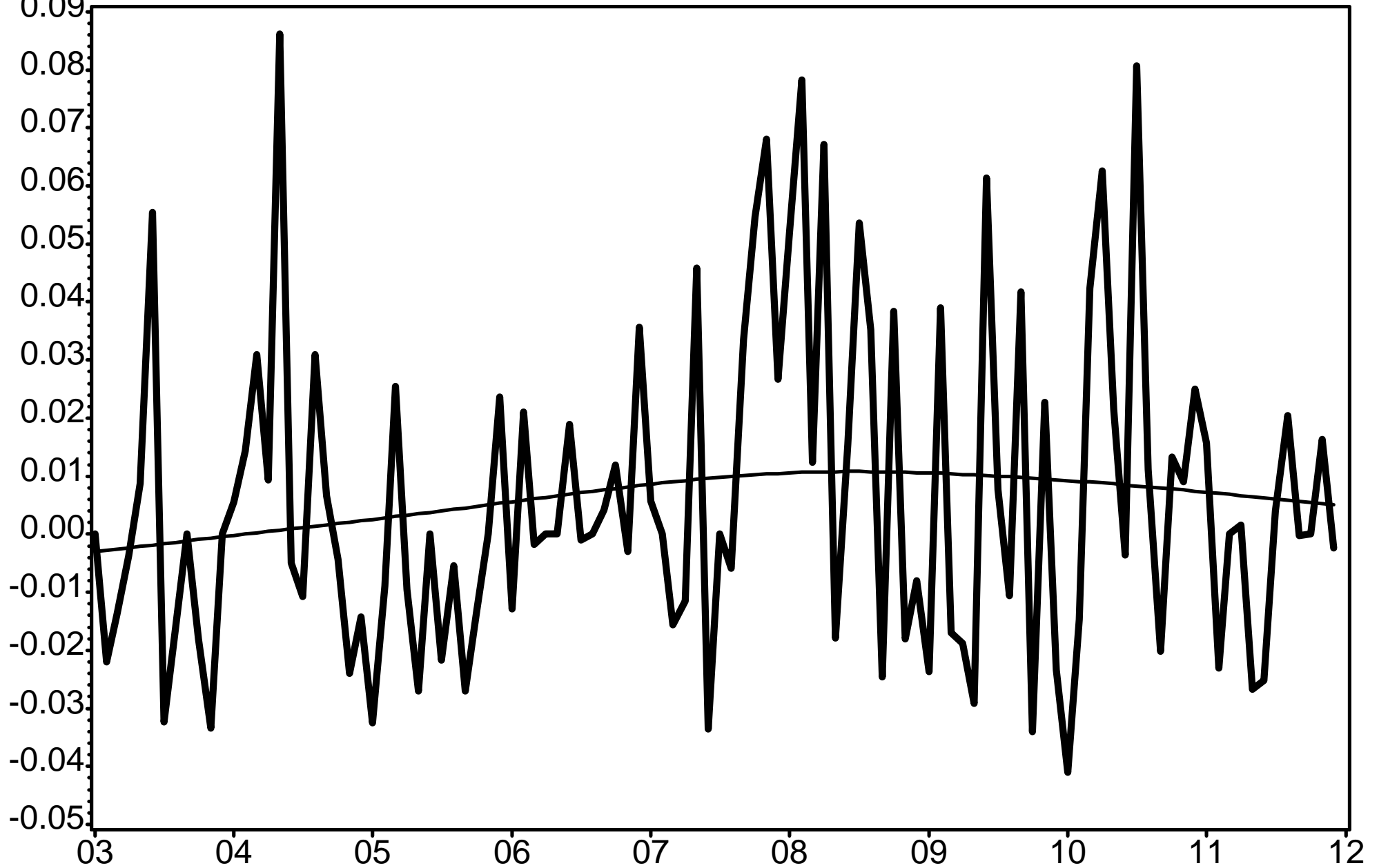
Tidal Caloosahatchee Trends Appendix - Display 1732

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
NH₃_mgl
(mg/l)

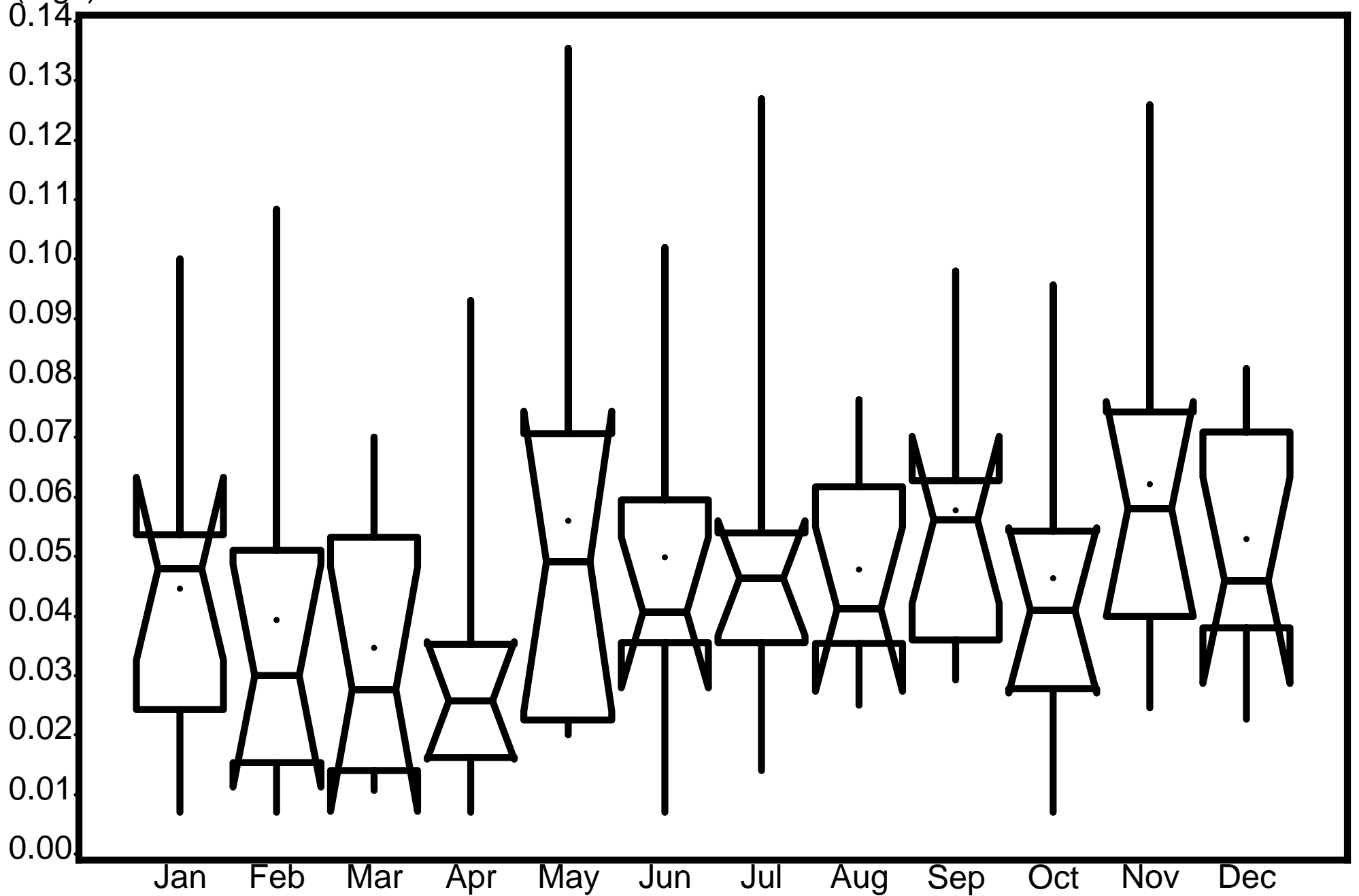


Tidal Caloosahatchee Trends Appendix - Display 1733

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Tidal Caloosahatchee

NH3_mgl
(mg/l)



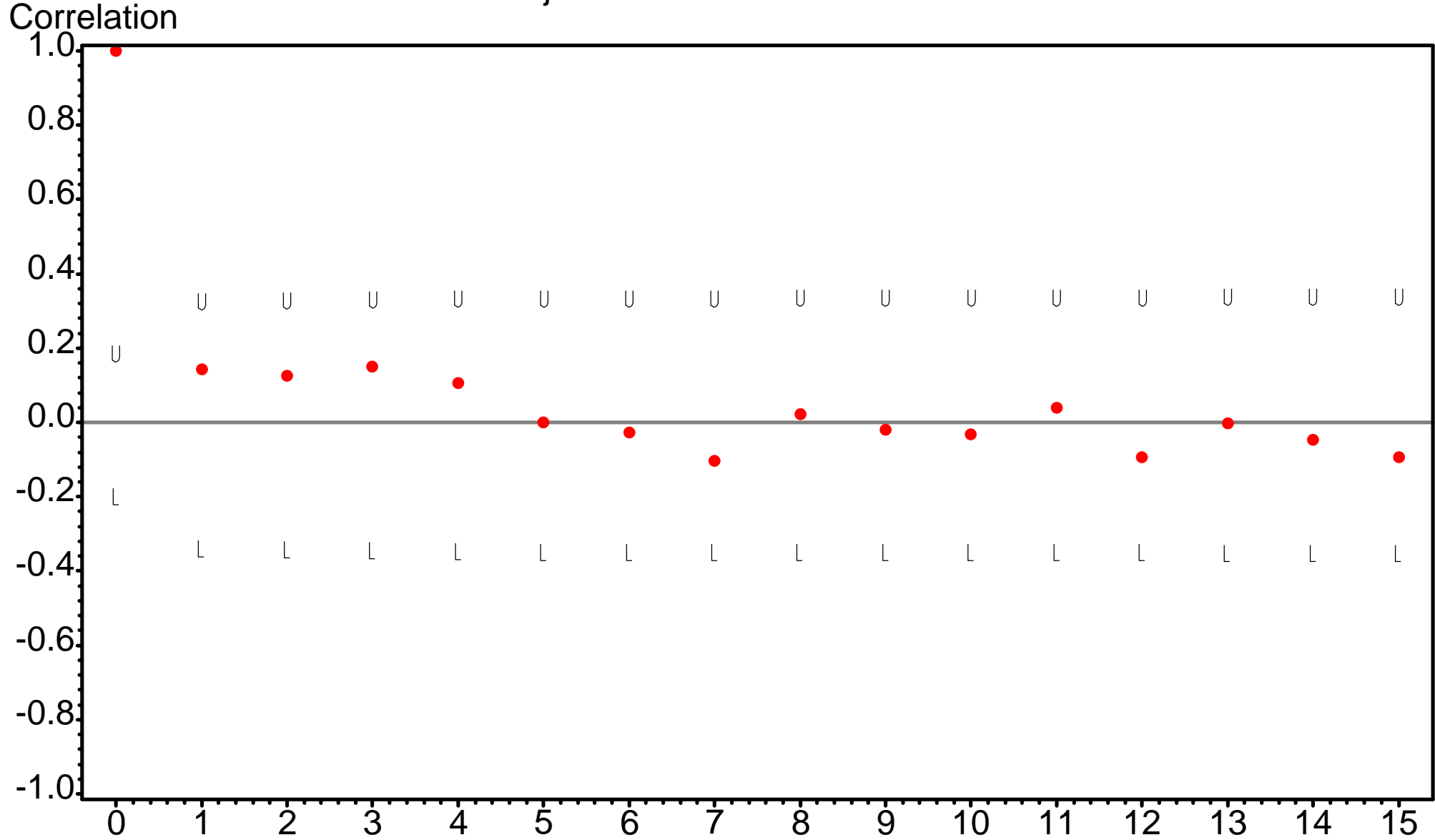
Tidal Caloosahatchee Trends Appendix - Display 1734
Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Caloosahatchee

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.142	0.167	0.333	-0.333
2	0.126	0.168	0.336	-0.336
3	0.151	0.169	0.337	-0.337
4	0.107	0.170	0.340	-0.340
5	0.000	0.171	0.341	-0.341
6	-0.028	0.171	0.341	-0.341
7	-0.104	0.171	0.341	-0.341
8	0.022	0.171	0.342	-0.342
9	-0.020	0.171	0.342	-0.342
10	-0.031	0.171	0.342	-0.342
11	0.040	0.171	0.343	-0.343
12	-0.093	0.171	0.343	-0.343
13	-0.003	0.172	0.344	-0.344
14	-0.046	0.172	0.344	-0.344
15	-0.094	0.172	0.344	-0.344

Tidal Caloosahatchee Trends Appendix - Display 1735

Correlogram for Surface Ammonia as N Total in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1736
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.091	0.165	0.165	.001

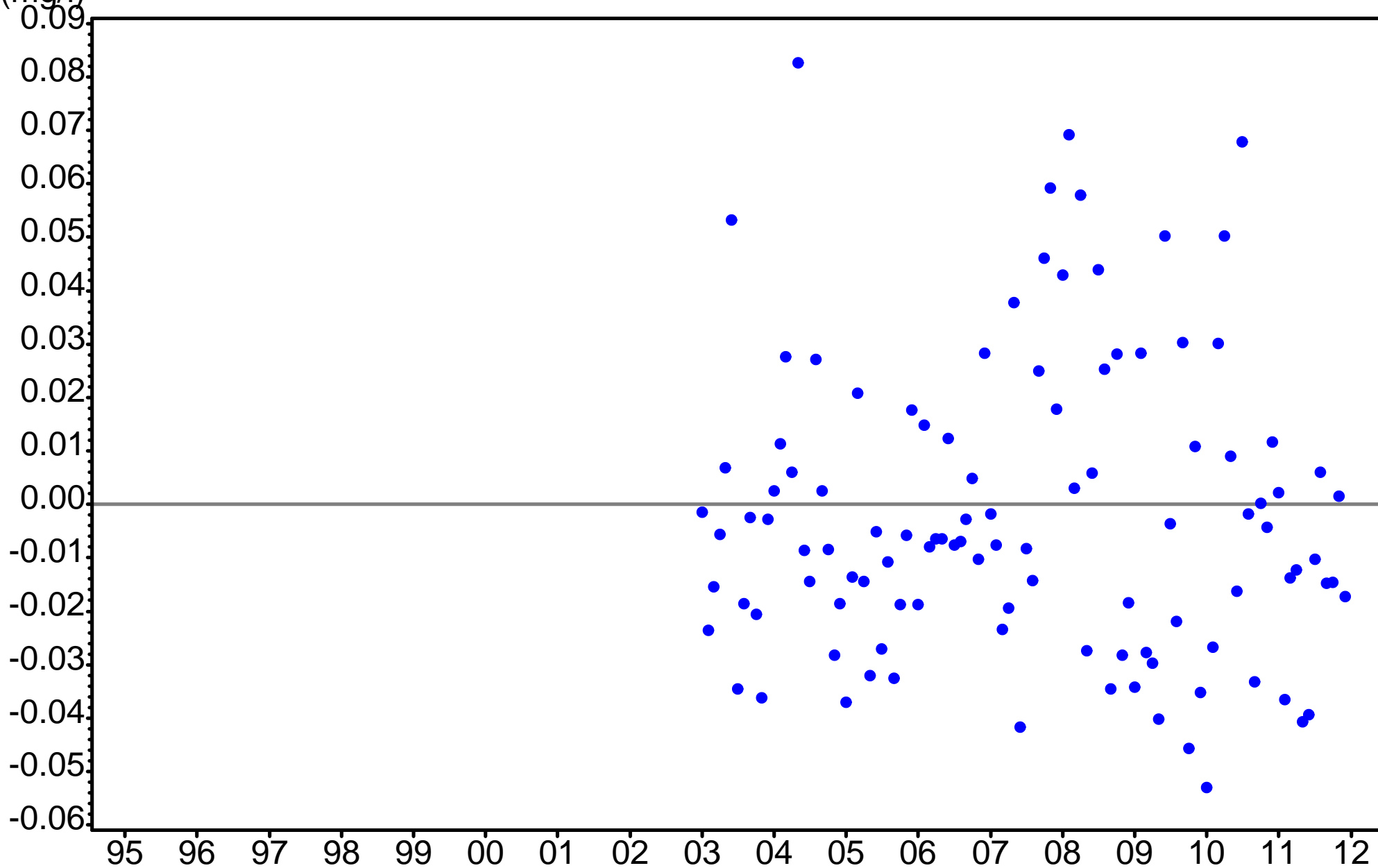
Tidal Caloosahatchee Trends Appendix - Display 1737
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10417	0.18482	0.27935	.0015

Tidal Caloosahatchee Trends Appendix - Display 1738

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(mg/l)



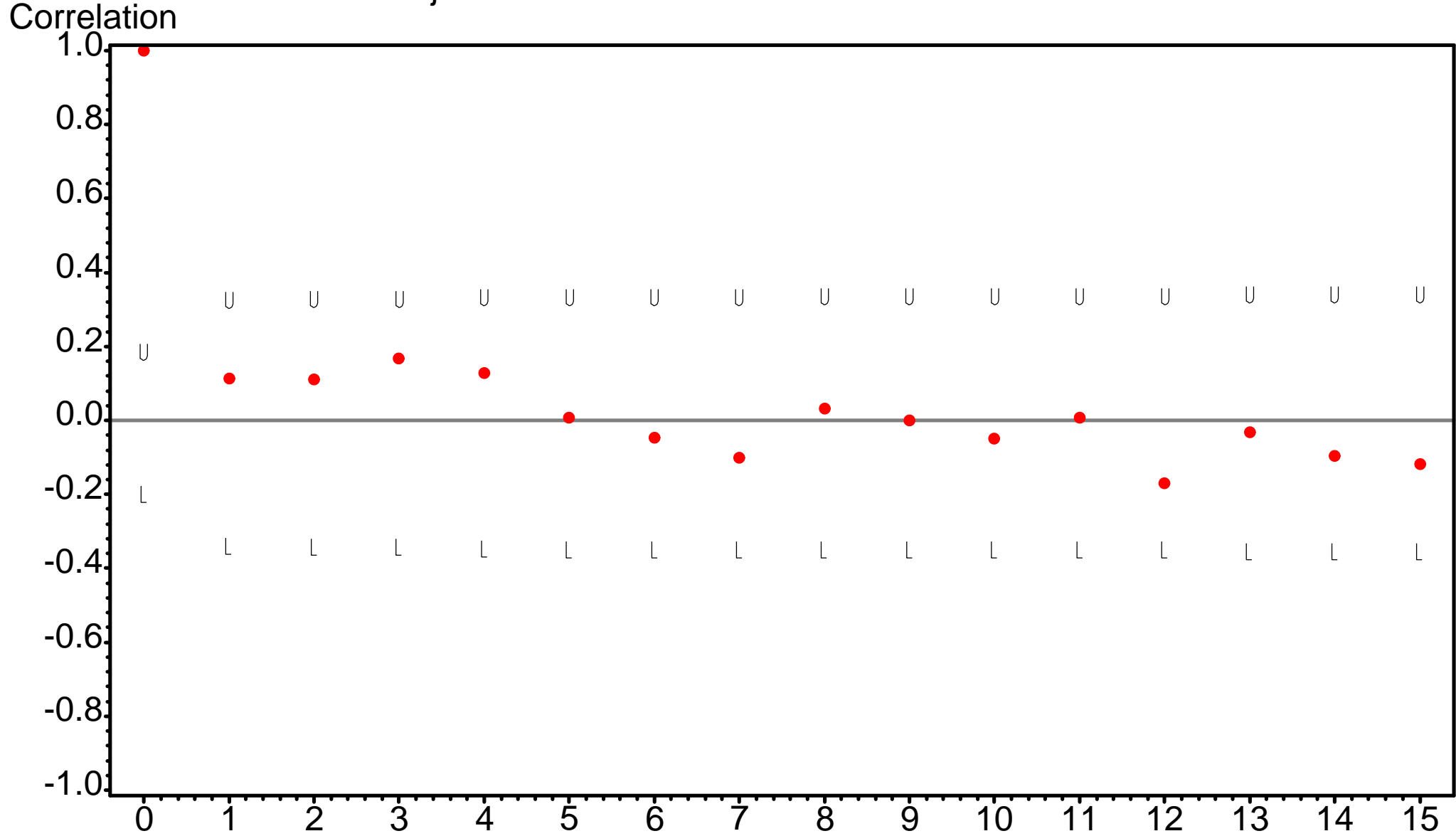
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1739
Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.114	0.167	0.333	-0.333
2	0.111	0.167	0.335	-0.335
3	0.168	0.168	0.336	-0.336
4	0.128	0.170	0.339	-0.339
5	0.008	0.171	0.341	-0.341
6	-0.047	0.171	0.341	-0.341
7	-0.100	0.171	0.341	-0.341
8	0.033	0.171	0.342	-0.342
9	0.001	0.171	0.342	-0.342
10	-0.048	0.171	0.342	-0.342
11	0.007	0.171	0.343	-0.343
12	-0.170	0.171	0.343	-0.343
13	-0.033	0.173	0.346	-0.346
14	-0.095	0.173	0.346	-0.346
15	-0.119	0.173	0.347	-0.347

Tidal Caloosahatchee Trends Appendix - Display 1740

Correlogram for Surface Ammonia as N Total in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

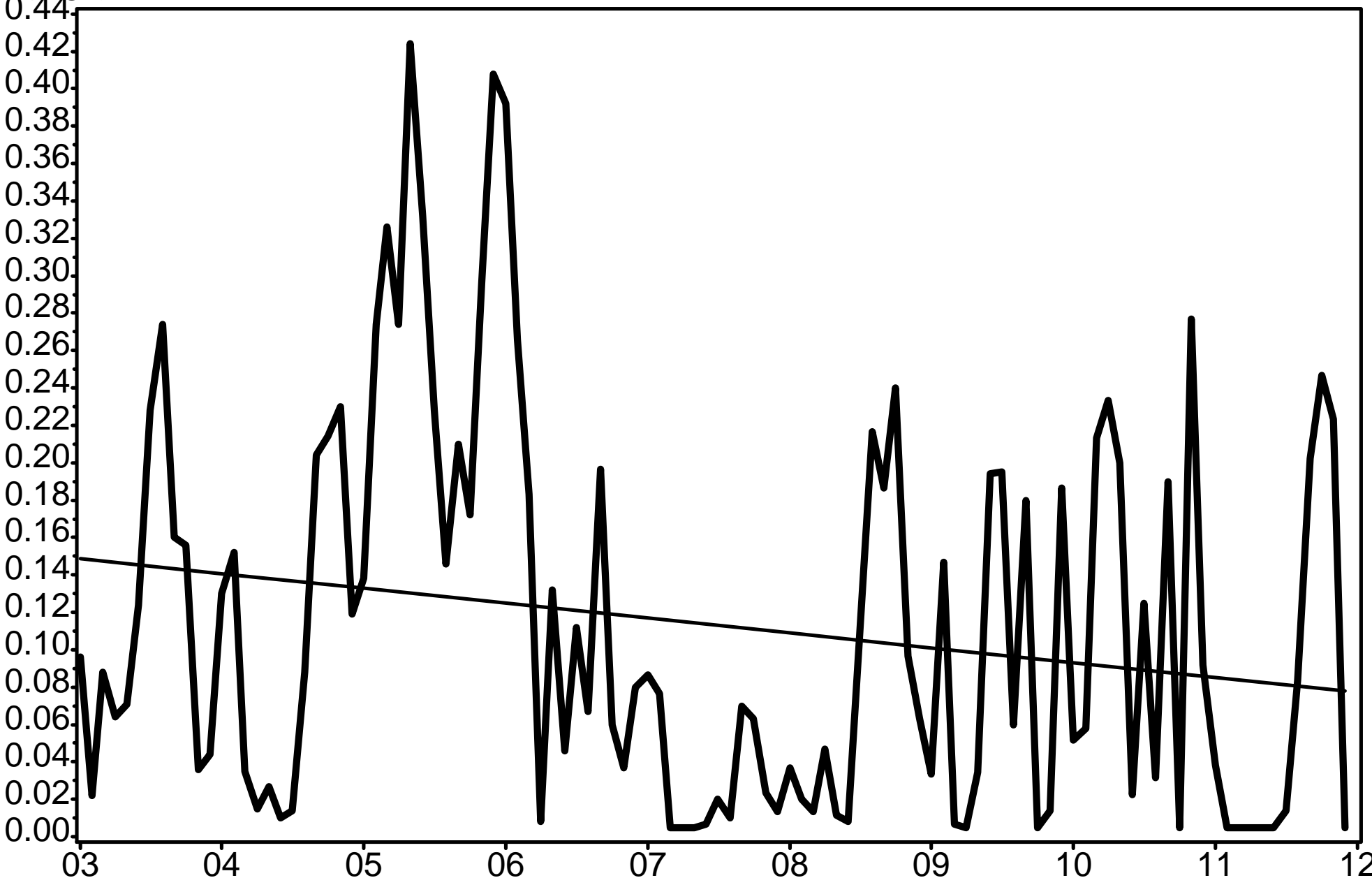
Tidal Caloosahatchee Trends Appendix - Display 1741

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

NO23_mgl
(mg/l)



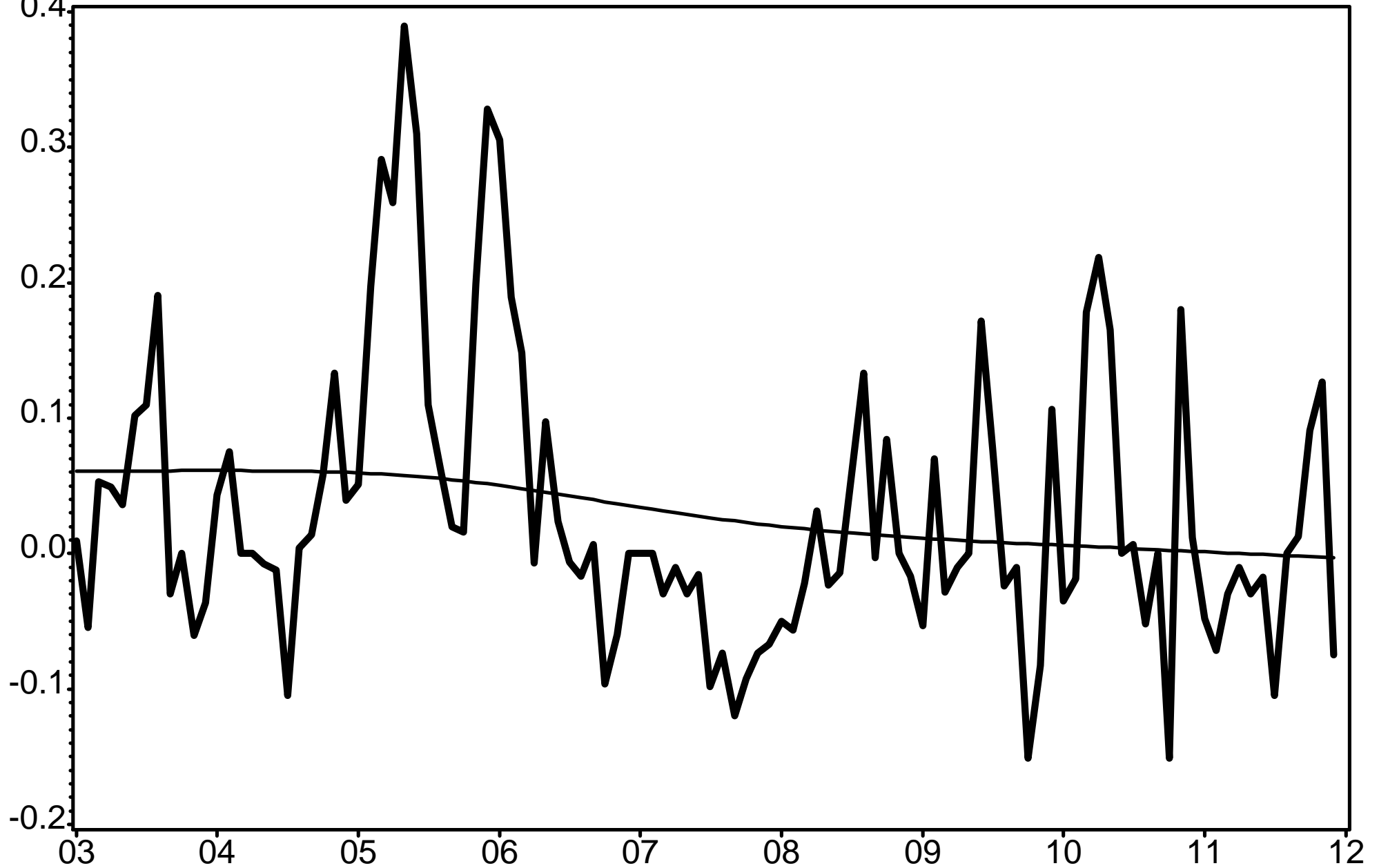
Tidal Caloosahatchee Trends Appendix - Display 1742

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

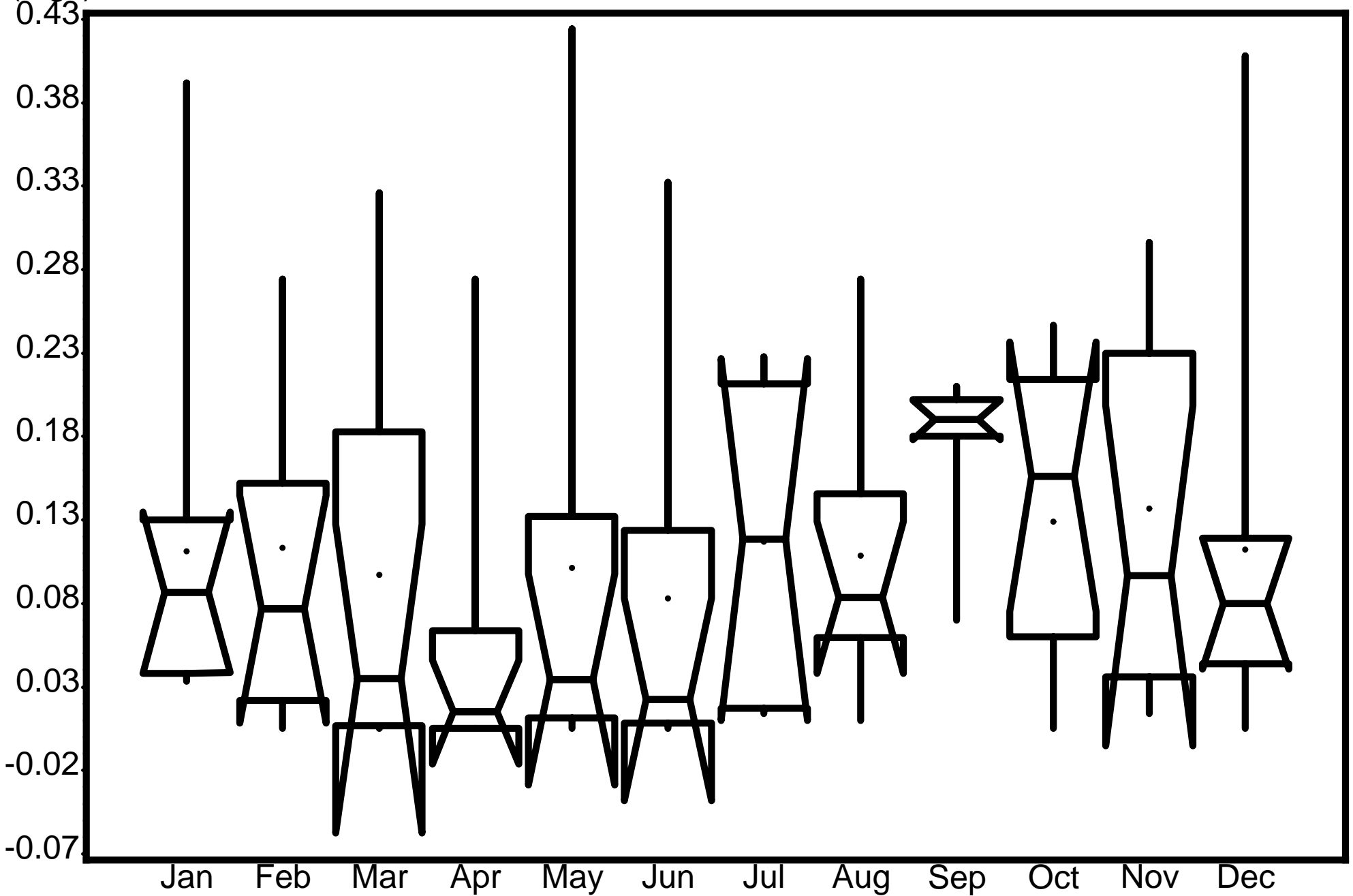


Tidal Caloosahatchee Trends Appendix - Display 1743

Seasonal Univariate Statistics

NO23_mgl for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

(mg/l)



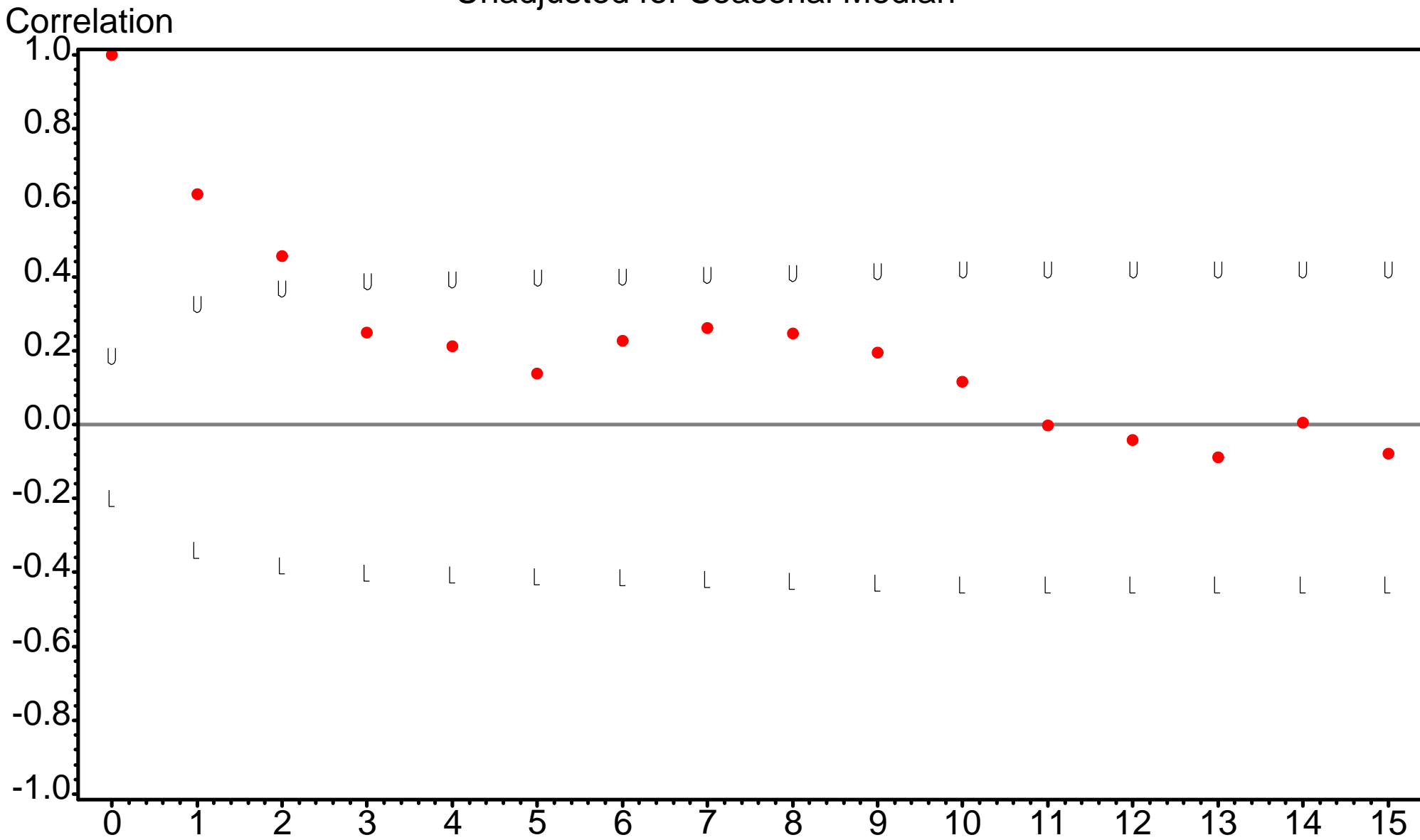
Tidal Caloosahatchee Trends Appendix - Display 1744
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.623	0.167	0.333	-0.333
2	0.455	0.187	0.374	-0.374
3	0.249	0.197	0.394	-0.394
4	0.213	0.200	0.400	-0.400
5	0.139	0.202	0.404	-0.404
6	0.227	0.203	0.406	-0.406
7	0.261	0.205	0.410	-0.410
8	0.247	0.208	0.416	-0.416
9	0.194	0.211	0.422	-0.422
10	0.116	0.213	0.425	-0.425
11	-0.003	0.213	0.426	-0.426
12	-0.041	0.213	0.426	-0.426
13	-0.089	0.213	0.426	-0.426
14	0.005	0.214	0.427	-0.427
15	-0.079	0.214	0.427	-0.427

Tidal Caloosahatchee Trends Appendix - Display 1745

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1746
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.166	0.011	0.011	-.006

Tidal Caloosahatchee Trends Appendix - Display 1747
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.24057	.00200425	0.15187	-.00555

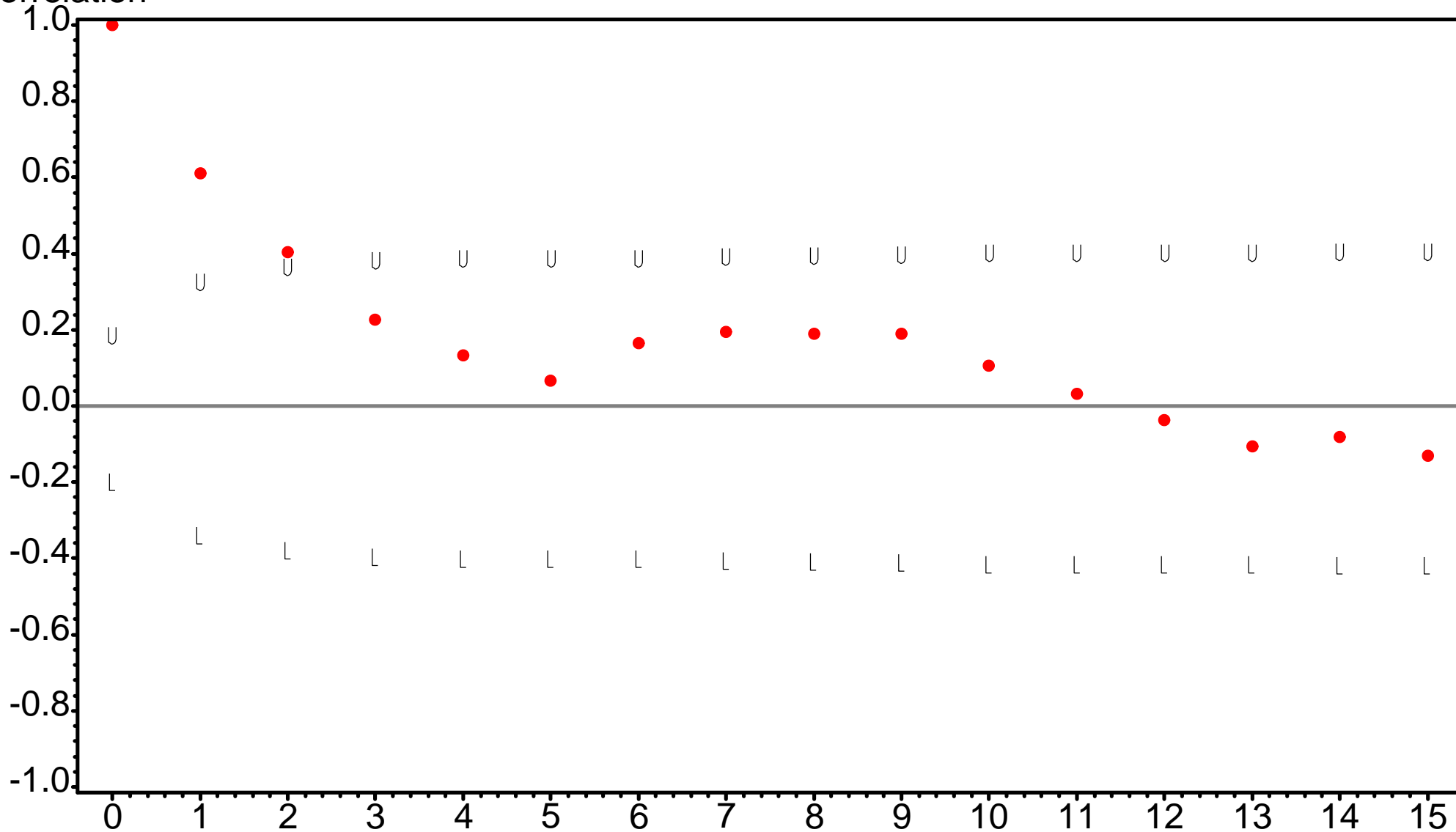
Tidal Caloosahatchee Trends Appendix - Display 1749
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.610	0.167	0.333	-0.333
2	0.404	0.186	0.372	-0.372
3	0.226	0.194	0.388	-0.388
4	0.133	0.197	0.393	-0.393
5	0.067	0.197	0.395	-0.395
6	0.165	0.198	0.395	-0.395
7	0.194	0.199	0.398	-0.398
8	0.189	0.201	0.401	-0.401
9	0.190	0.202	0.405	-0.405
10	0.106	0.204	0.408	-0.408
11	0.031	0.204	0.409	-0.409
12	-0.038	0.204	0.409	-0.409
13	-0.106	0.205	0.409	-0.409
14	-0.080	0.205	0.410	-0.410
15	-0.131	0.205	0.411	-0.411

Tidal Caloosahatchee Trends Appendix - Display 1750

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

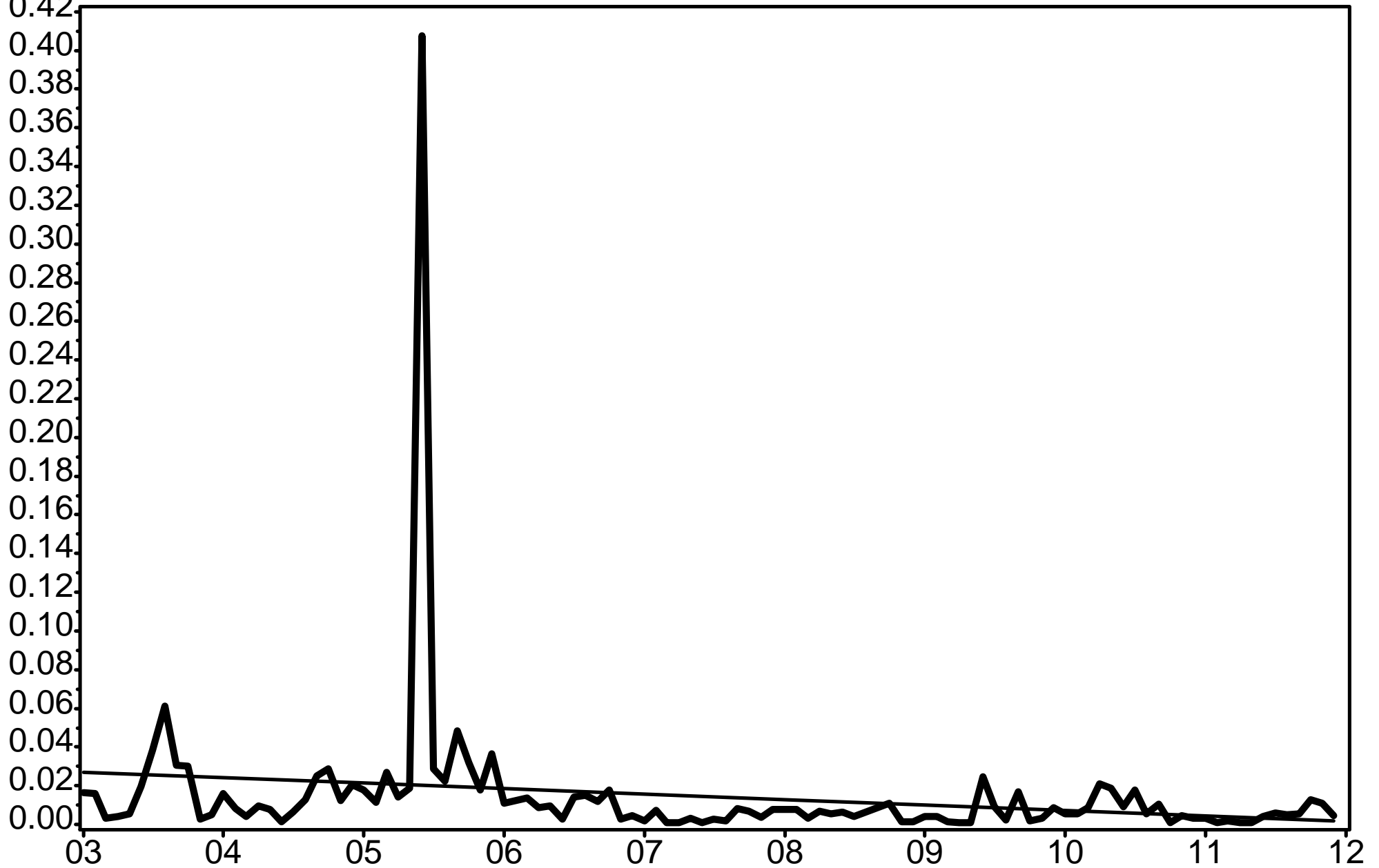
Tidal Caloosahatchee Trends Appendix - Display 1751

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

NO2_mgl
(mg/l)



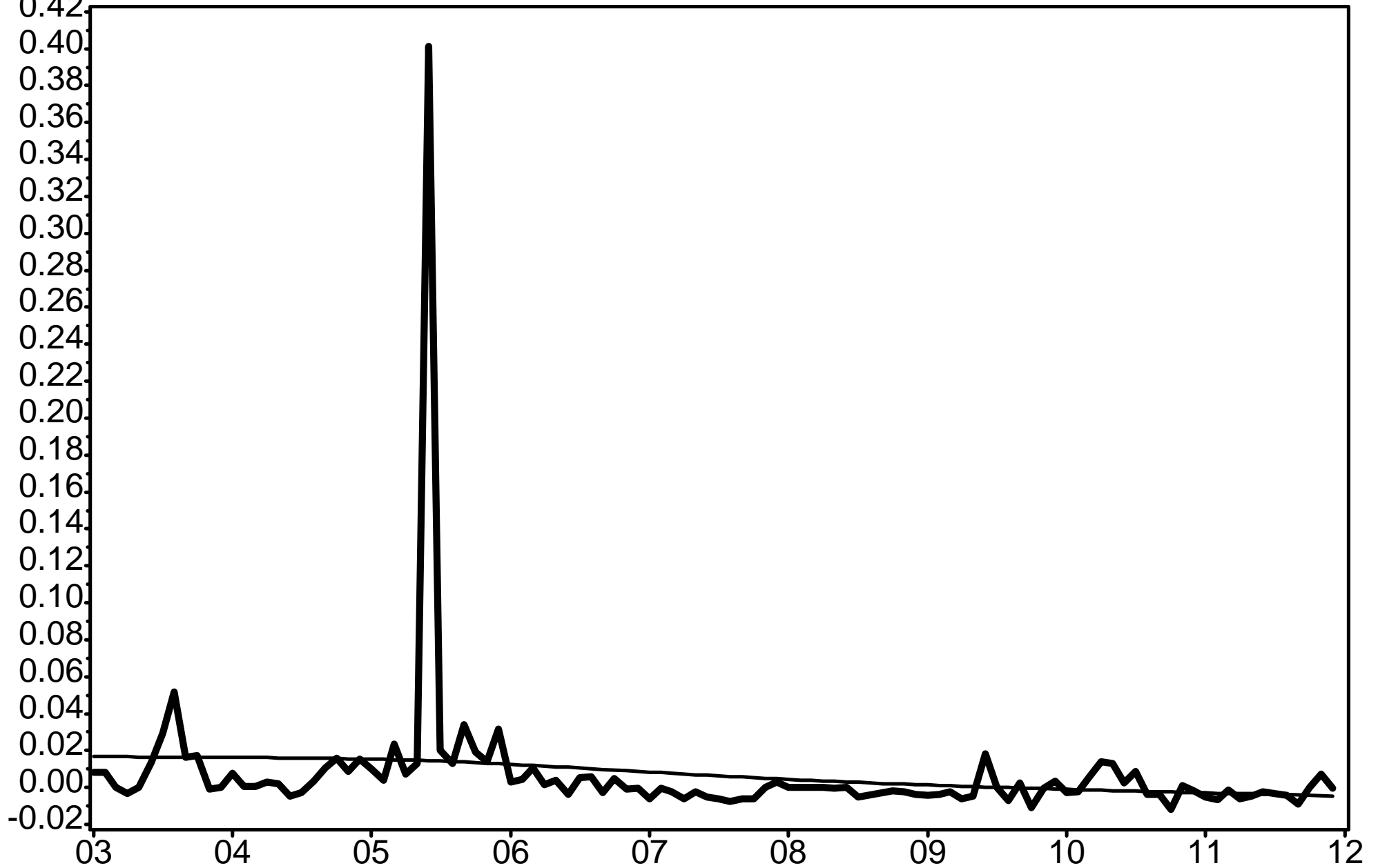
Tidal Caloosahatchee Trends Appendix - Display 1752

Monthly Data Time Series

for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
NO₂_mgl
(mg/l)

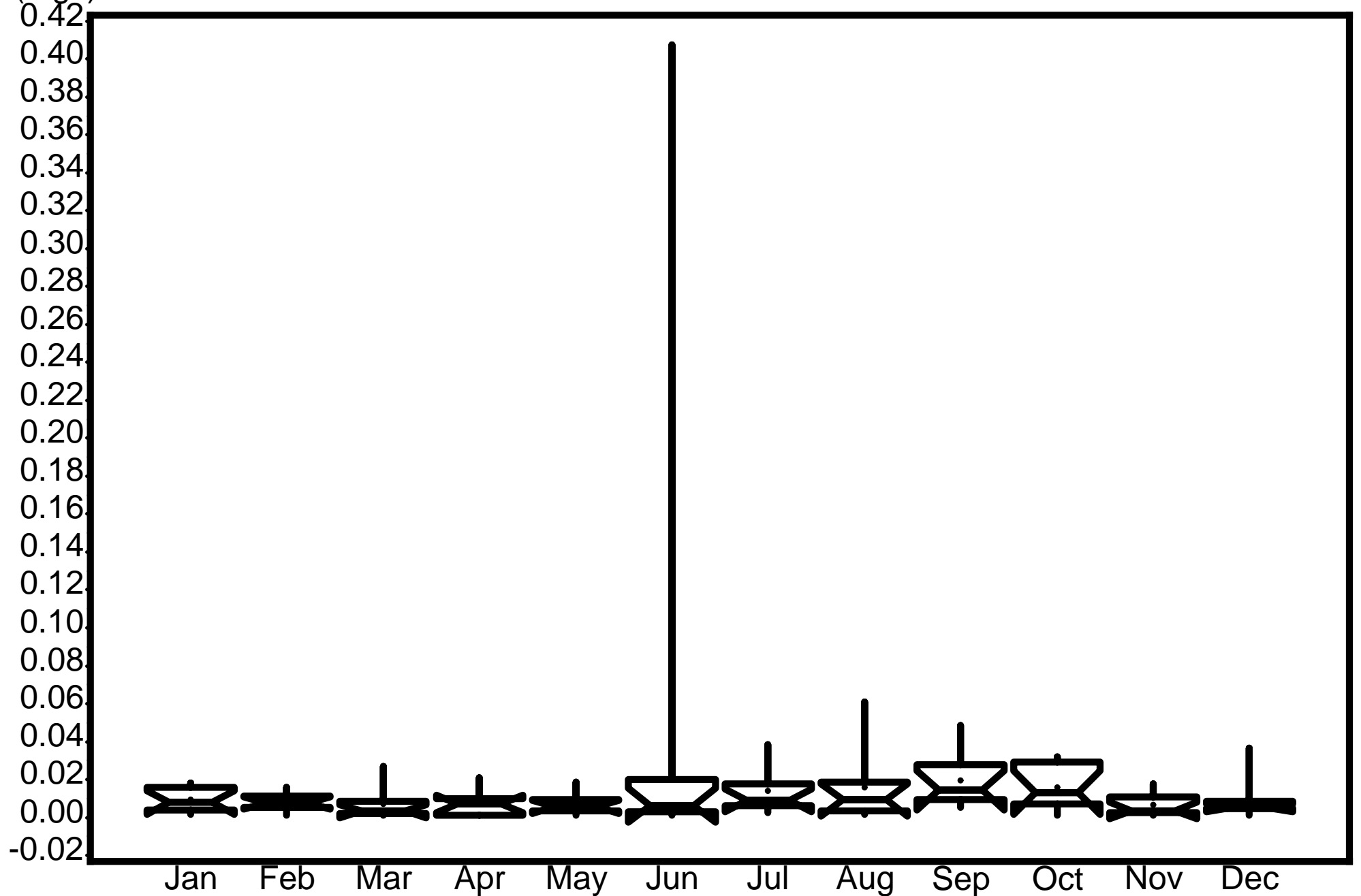


Tidal Caloosahatchee Trends Appendix - Display 1753

Seasonal Univariate Statistics

for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

NO2_mgl
(mg/l)



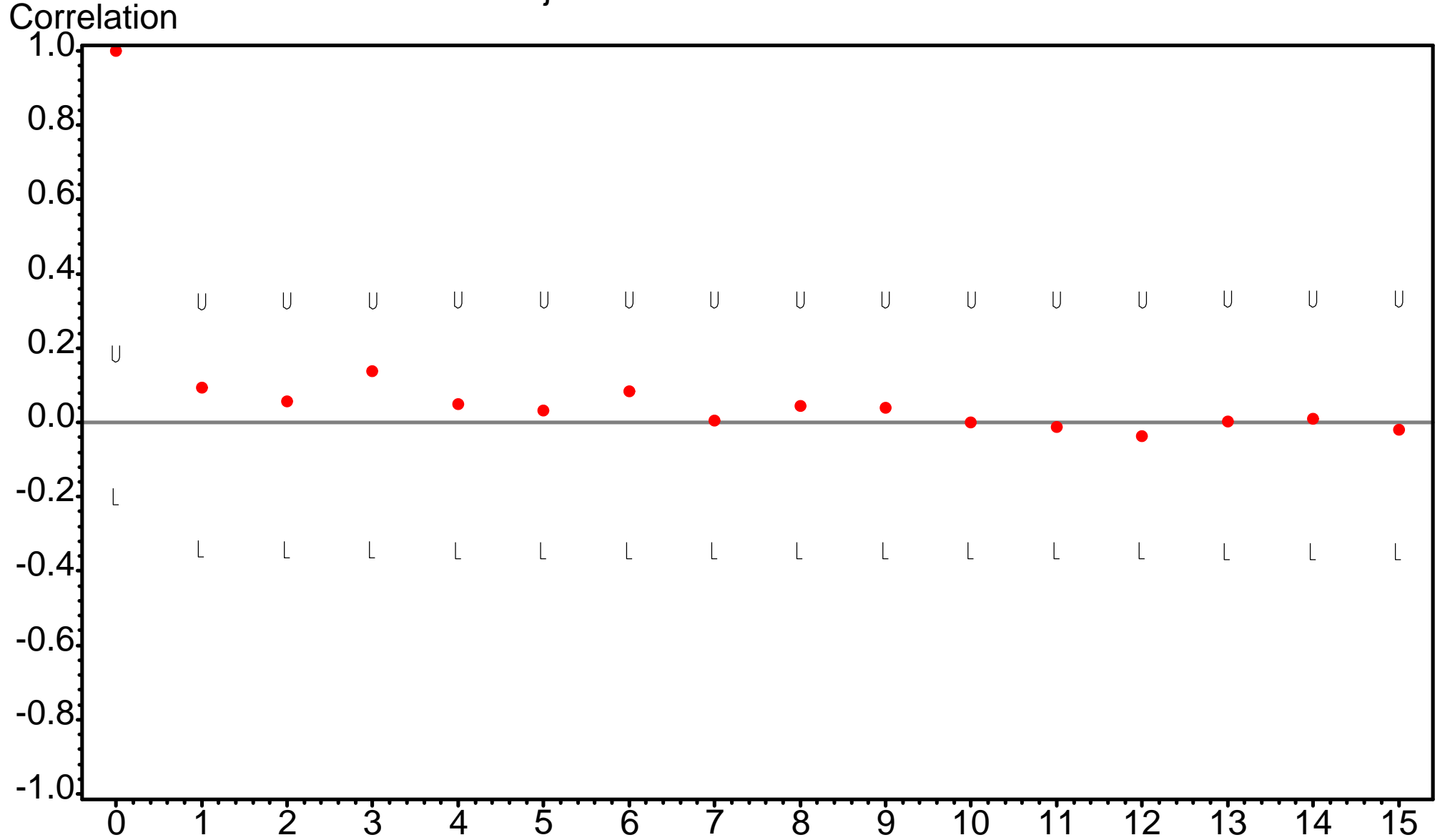
Tidal Caloosahatchee Trends Appendix - Display 1754
Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.094	0.167	0.333	-0.333
2	0.057	0.167	0.334	-0.334
3	0.138	0.167	0.335	-0.335
4	0.050	0.168	0.337	-0.337
5	0.033	0.169	0.337	-0.337
6	0.084	0.169	0.337	-0.337
7	0.005	0.169	0.338	-0.338
8	0.045	0.169	0.338	-0.338
9	0.040	0.169	0.338	-0.338
10	-0.001	0.169	0.338	-0.338
11	-0.013	0.169	0.338	-0.338
12	-0.036	0.169	0.338	-0.338
13	0.002	0.169	0.339	-0.339
14	0.010	0.169	0.339	-0.339
15	-0.020	0.169	0.339	-0.339

Tidal Caloosahatchee Trends Appendix - Display 1755

Correlogram for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1756
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.283	0	0	-.001

Tidal Caloosahatchee Trends Appendix - Display 1757
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.33173	.000020068	0.070923	-.0015

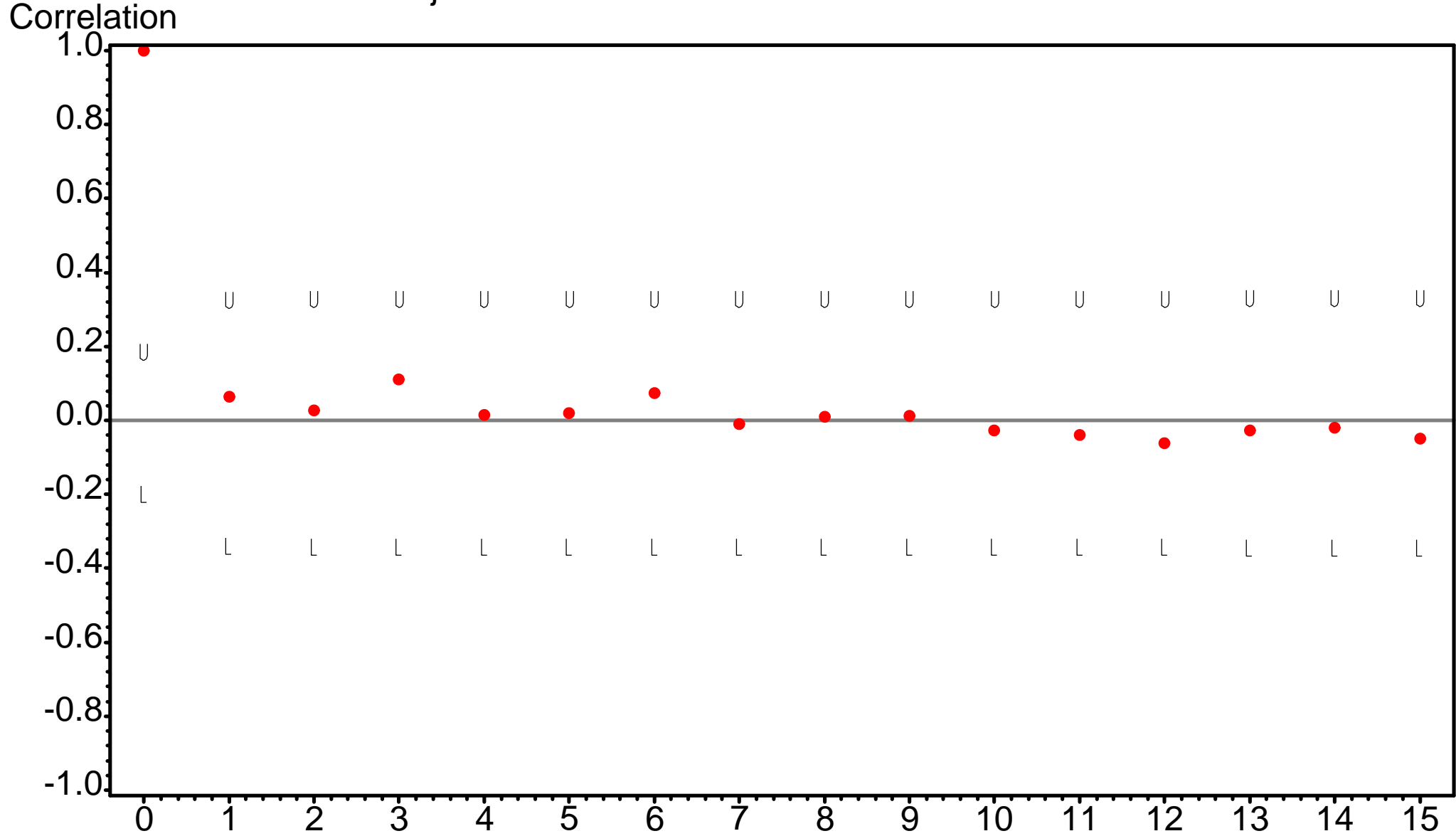
Tidal Caloosahatchee Trends Appendix - Display 1759
 Autocorrelation Statistics for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee
 Adjusted for Seasonal Median and Detrended

Lagged Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.065	0.167	0.333	-0.333
2	0.026	0.167	0.334	-0.334
3	0.110	0.167	0.334	-0.334
4	0.014	0.168	0.335	-0.335
5	0.019	0.168	0.335	-0.335
6	0.075	0.168	0.335	-0.335
7	-0.010	0.168	0.336	-0.336
8	0.011	0.168	0.336	-0.336
9	0.012	0.168	0.336	-0.336
10	-0.028	0.168	0.336	-0.336
11	-0.039	0.168	0.336	-0.336
12	-0.061	0.168	0.336	-0.336
13	-0.026	0.168	0.337	-0.337
14	-0.020	0.168	0.337	-0.337
15	-0.050	0.168	0.337	-0.337

Tidal Caloosahatchee Trends Appendix - Display 1760

Correlogram for Surface Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Adjusted for Seasonal Median and Detrended



Lagged Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

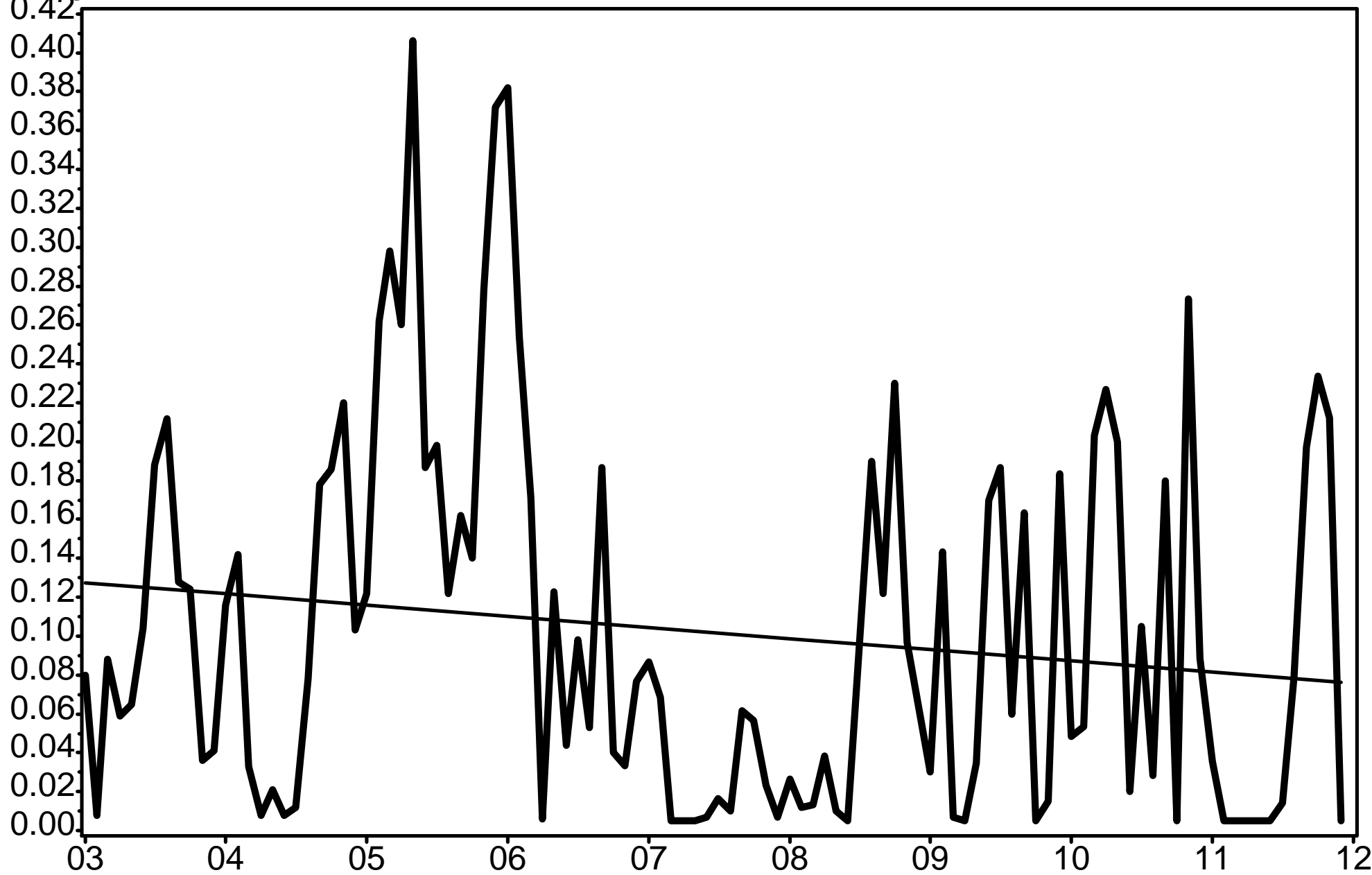
Tidal Caloosahatchee Trends Appendix - Display 1761

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

NO3_mgl
(mg/l)

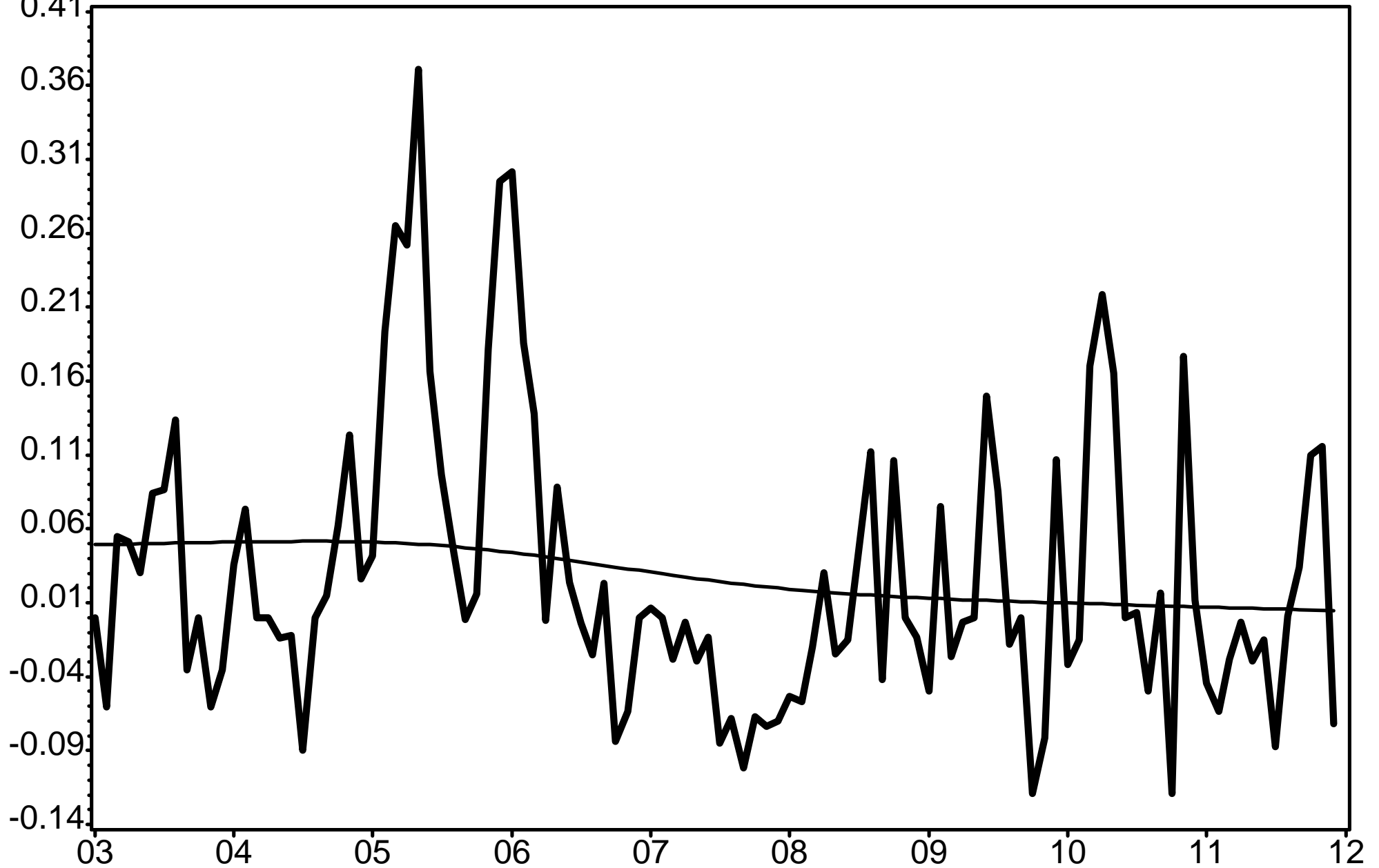


Tidal Caloosahatchee Trends Appendix - Display 1762

Monthly Data Time Series

Adjusted
NO3_mgl
(mg/l)

for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

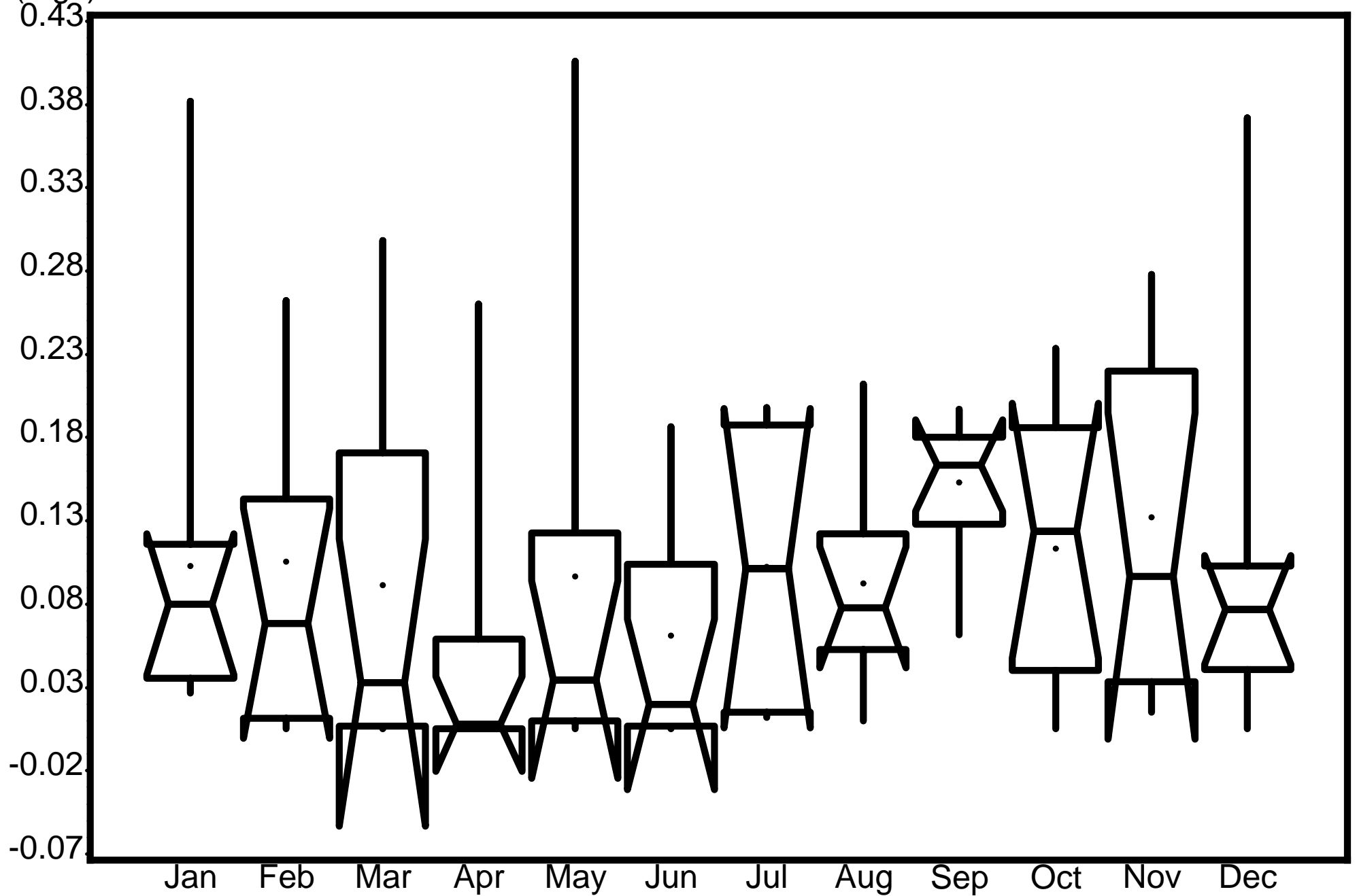


Tidal Caloosahatchee Trends Appendix - Display 1763

Seasonal Univariate Statistics

NO3_mgl
(mg/l)

for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee



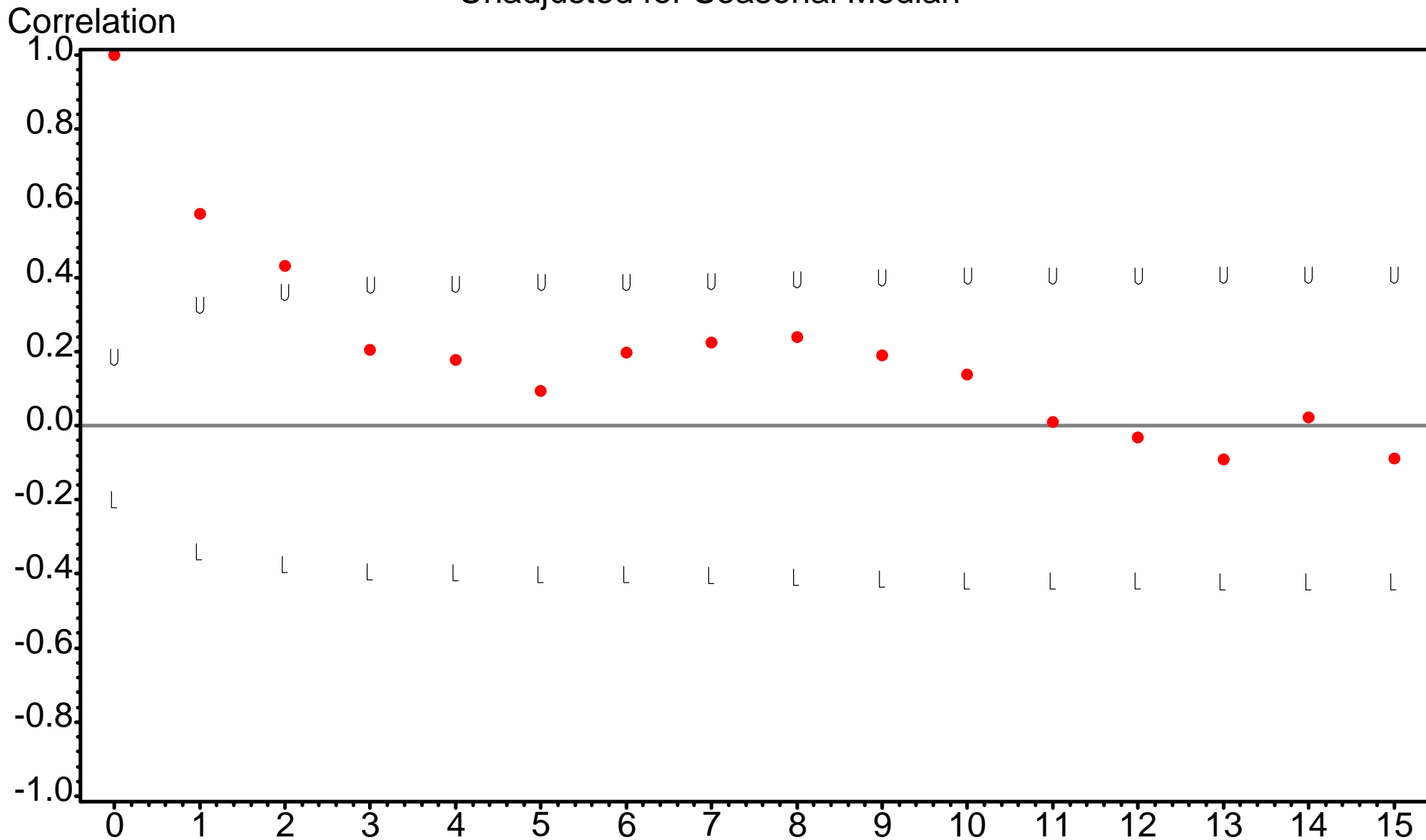
Tidal Caloosahatchee Trends Appendix - Display 1764
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.572	0.167	0.333	-0.333
2	0.430	0.184	0.368	-0.368
3	0.204	0.193	0.386	-0.386
4	0.178	0.195	0.390	-0.390
5	0.093	0.197	0.393	-0.393
6	0.198	0.197	0.394	-0.394
7	0.225	0.199	0.397	-0.397
8	0.240	0.201	0.402	-0.402
9	0.189	0.204	0.407	-0.407
10	0.138	0.205	0.411	-0.411
11	0.010	0.206	0.412	-0.412
12	-0.032	0.206	0.412	-0.412
13	-0.090	0.206	0.413	-0.413
14	0.023	0.207	0.413	-0.413
15	-0.089	0.207	0.413	-0.413

Tidal Caloosahatchee Trends Appendix - Display 1765

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1766
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

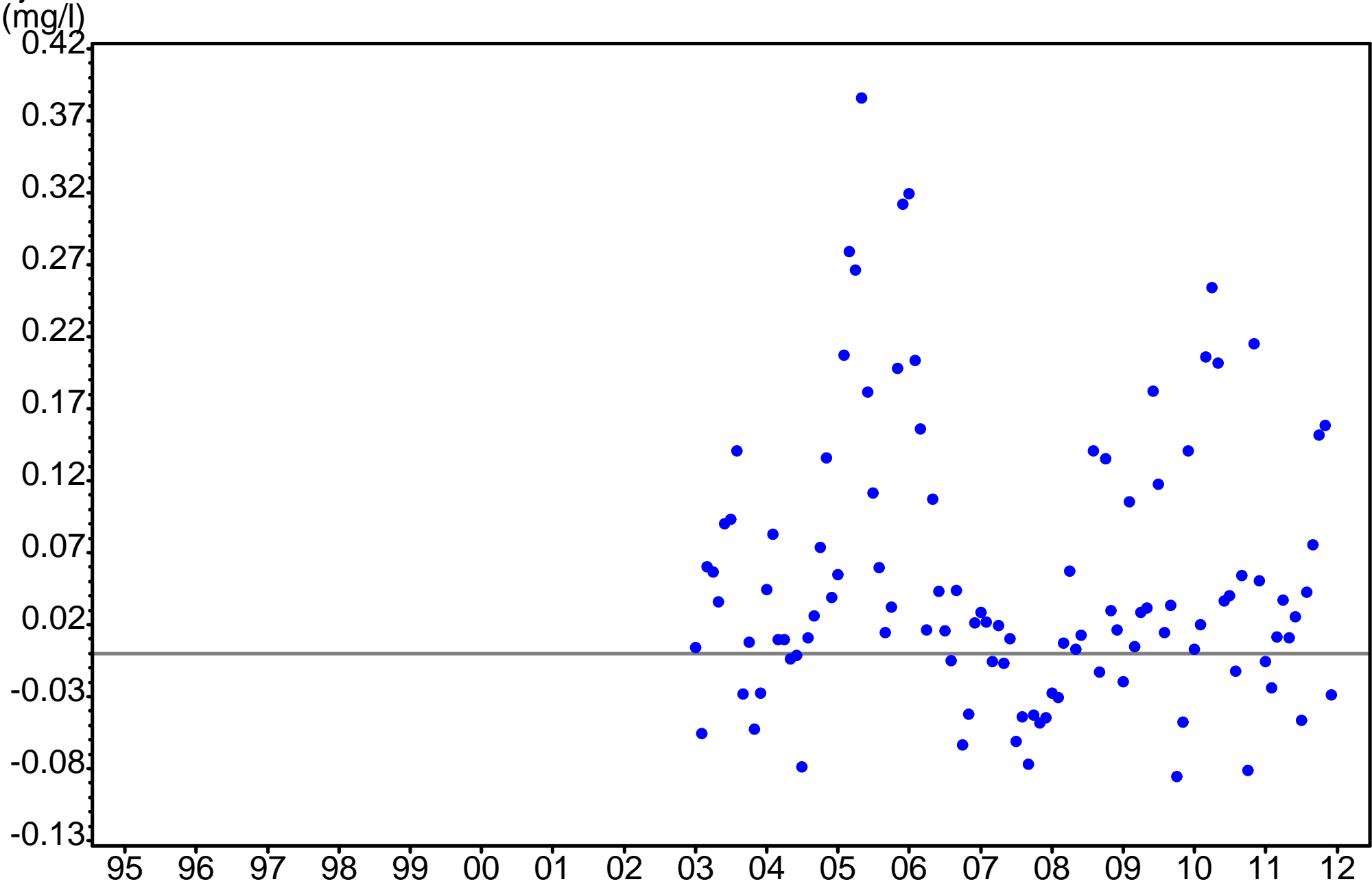
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.138	0.036	0.036	-.004

Tidal Caloosahatchee Trends Appendix - Display 1767
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.18632	0.017084	0.21371	-.004325

Tidal Caloosahatchee Trends Appendix - Display 1768

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted
(mg/l)
Tidal Caloosahatchee



Zero Reference Line Shown

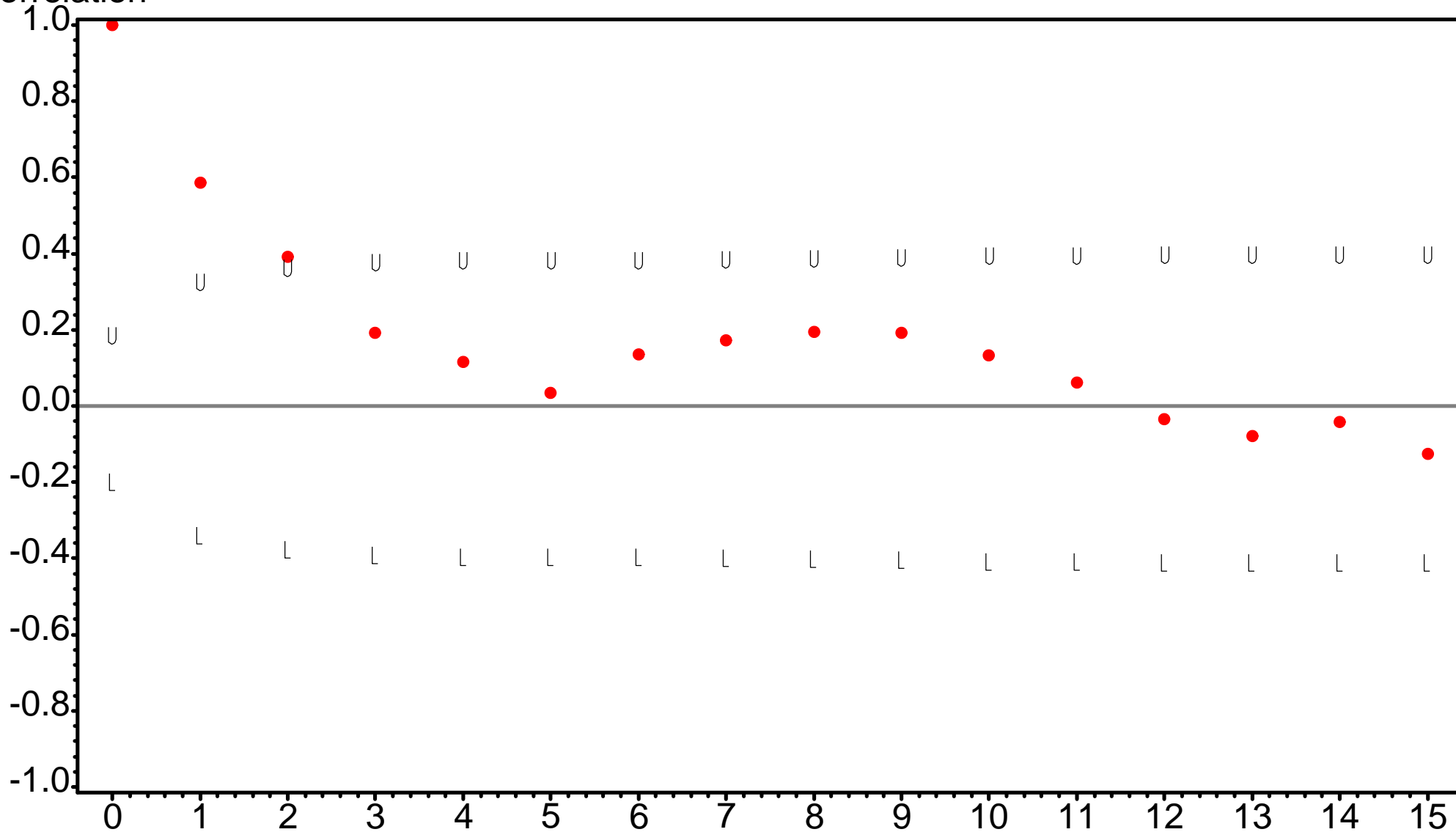
Tidal Caloosahatchee Trends Appendix - Display 1769
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.585	0.167	0.333	-0.333
2	0.391	0.185	0.369	-0.369
3	0.191	0.192	0.384	-0.384
4	0.115	0.194	0.388	-0.388
5	0.034	0.195	0.389	-0.389
6	0.136	0.195	0.389	-0.389
7	0.173	0.196	0.391	-0.391
8	0.195	0.197	0.394	-0.394
9	0.191	0.199	0.397	-0.397
10	0.132	0.200	0.401	-0.401
11	0.061	0.201	0.402	-0.402
12	-0.034	0.201	0.403	-0.403
13	-0.078	0.201	0.403	-0.403
14	-0.043	0.202	0.403	-0.403
15	-0.125	0.202	0.404	-0.404

Tidal Caloosahatchee Trends Appendix - Display 1770

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

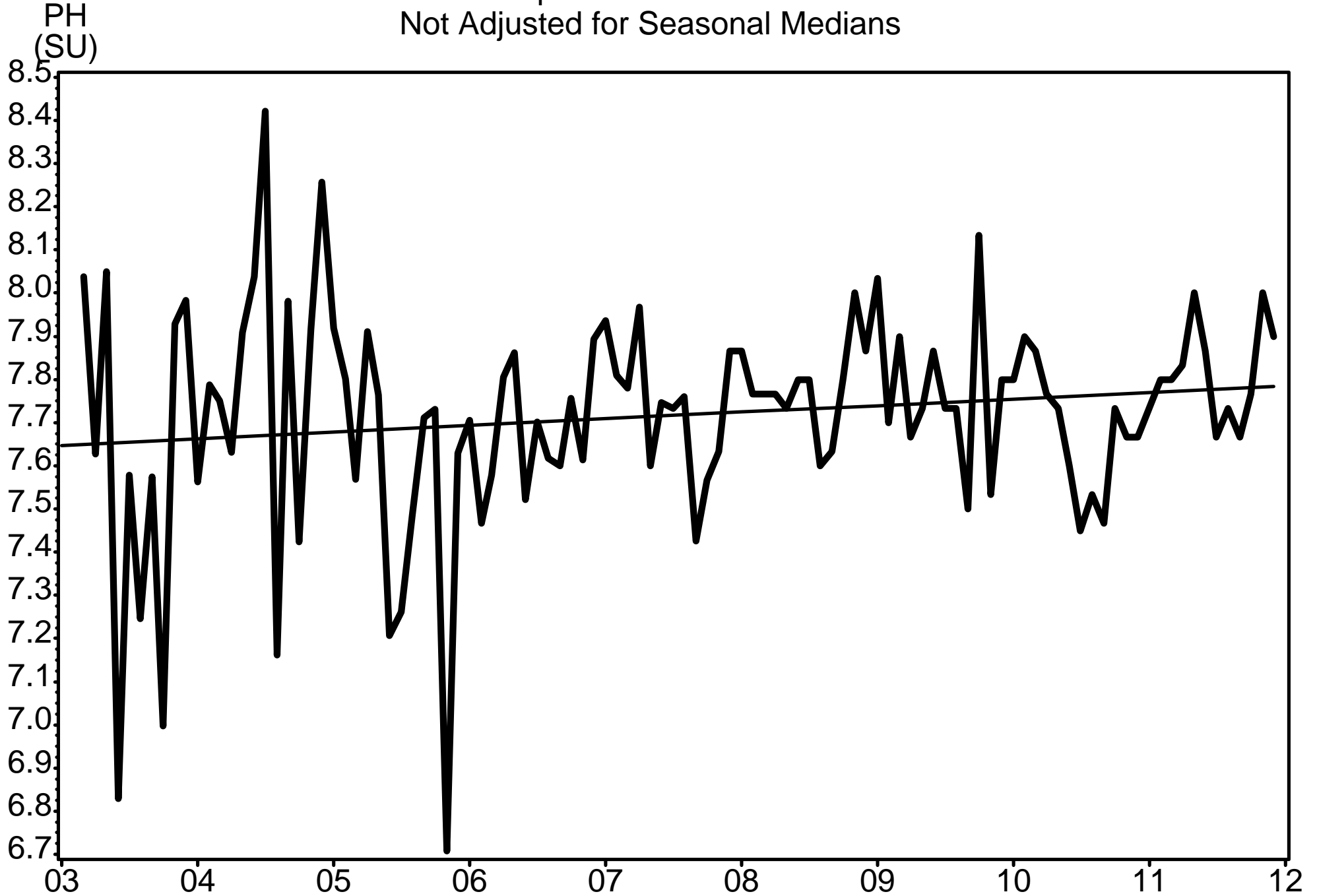
Correlation



Lagged Nitrate+Nitrite (TOTAL AS N)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1771

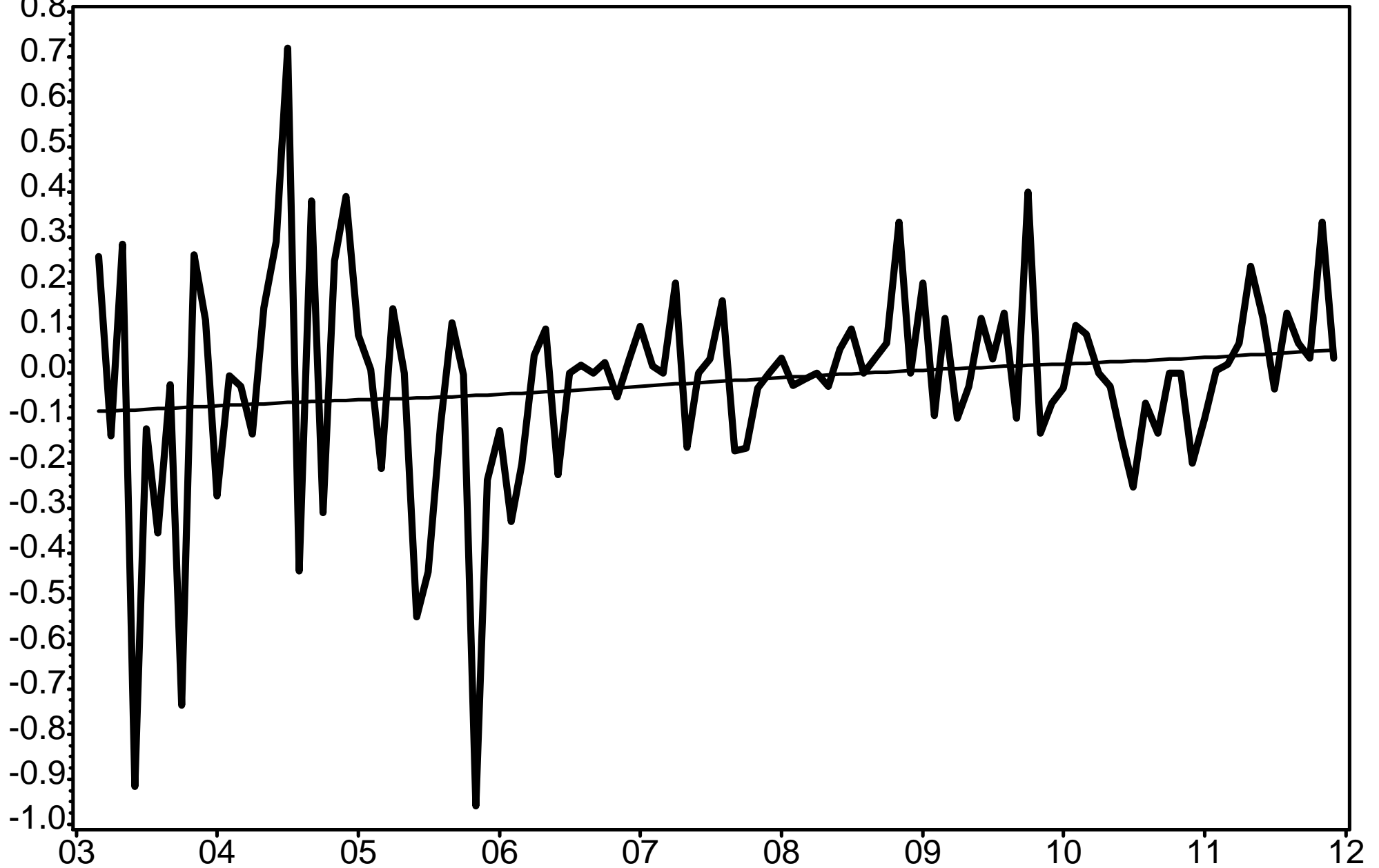
Monthly Data Time Series
for Surface pH in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians



Tidal Caloosahatchee Trends Appendix - Display 1772

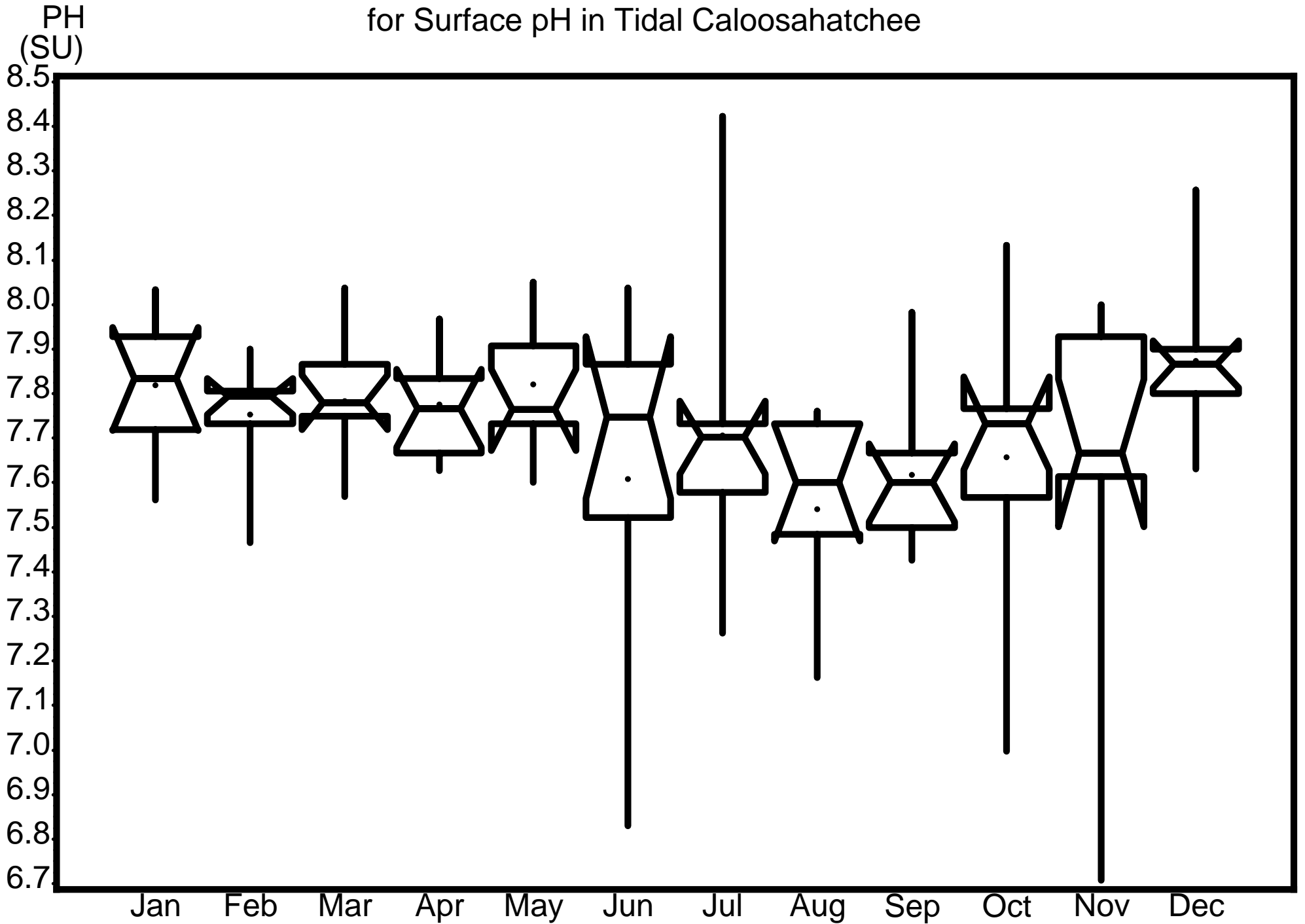
Monthly Data Time Series
for Surface pH in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Tidal Caloosahatchee Trends Appendix - Display 1773

Seasonal Univariate Statistics for Surface pH in Tidal Caloosahatchee



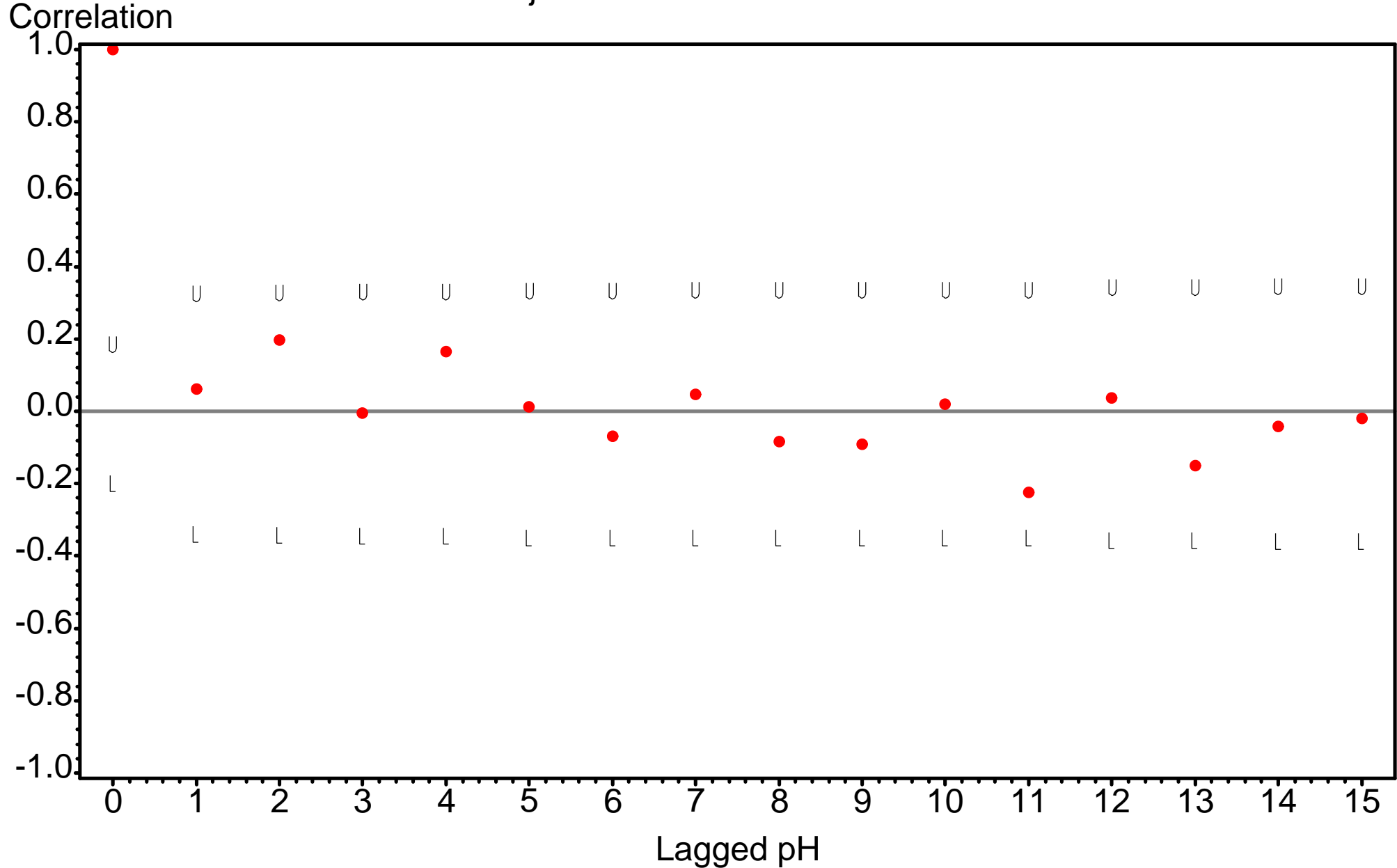
Tidal Caloosahatchee Trends Appendix - Display 1774

Autocorrelation Statistics for Surface pH in Tidal Caloosahatchee

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.061	0.167	0.333	-0.333
2	0.197	0.167	0.334	-0.334
3	-0.006	0.169	0.338	-0.338
4	0.165	0.169	0.338	-0.338
5	0.012	0.170	0.341	-0.341
6	-0.068	0.171	0.341	-0.341
7	0.047	0.171	0.342	-0.342
8	-0.084	0.171	0.342	-0.342
9	-0.092	0.171	0.343	-0.343
10	0.020	0.172	0.343	-0.343
11	-0.225	0.172	0.343	-0.343
12	0.038	0.174	0.349	-0.349
13	-0.149	0.175	0.349	-0.349
14	-0.041	0.176	0.351	-0.351
15	-0.020	0.176	0.352	-0.352

Tidal Caloosahatchee Trends Appendix - Display 1775

Correlogram for Surface pH in Tidal Caloosahatchee
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1776
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.071	0.284	0.284	.008

Tidal Caloosahatchee Trends Appendix - Display 1777
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.12740	0.10703	0.12469	0.01

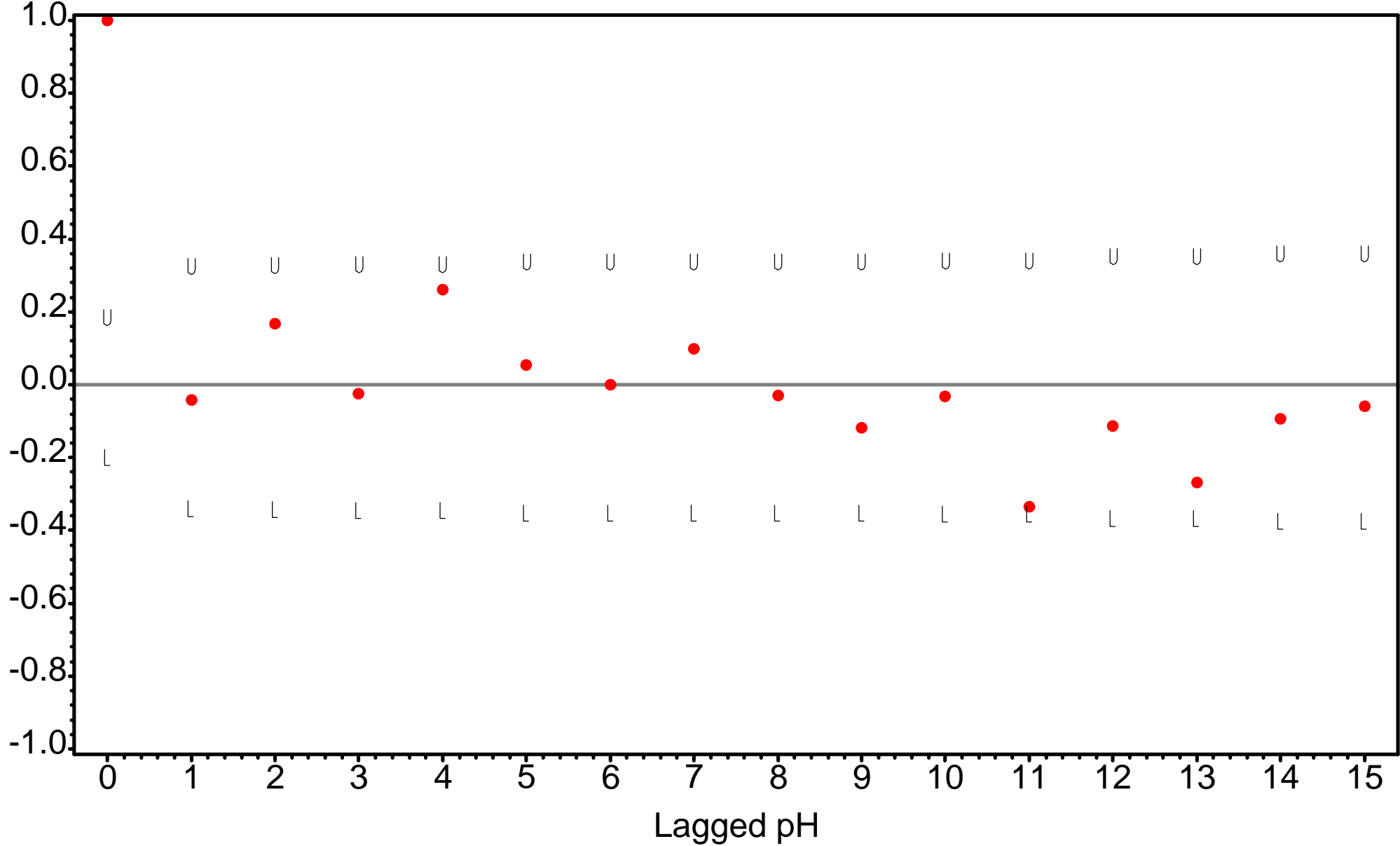
Tidal Caloosahatchee Trends Appendix - Display 1779
Autocorrelation Statistics for Surface pH in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	-0.041	0.167	0.333	-0.333
2	0.167	0.167	0.334	-0.334
3	-0.025	0.168	0.337	-0.337
4	0.260	0.168	0.337	-0.337
5	0.053	0.172	0.344	-0.344
6	-0.001	0.172	0.344	-0.344
7	0.099	0.172	0.344	-0.344
8	-0.029	0.173	0.345	-0.345
9	-0.119	0.173	0.345	-0.345
10	-0.033	0.173	0.347	-0.347
11	-0.334	0.174	0.347	-0.347
12	-0.112	0.179	0.359	-0.359
13	-0.268	0.180	0.360	-0.360
14	-0.094	0.184	0.367	-0.367
15	-0.060	0.184	0.368	-0.368

Tidal Caloosahatchee Trends Appendix - Display 1780

Correlogram for Surface pH in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

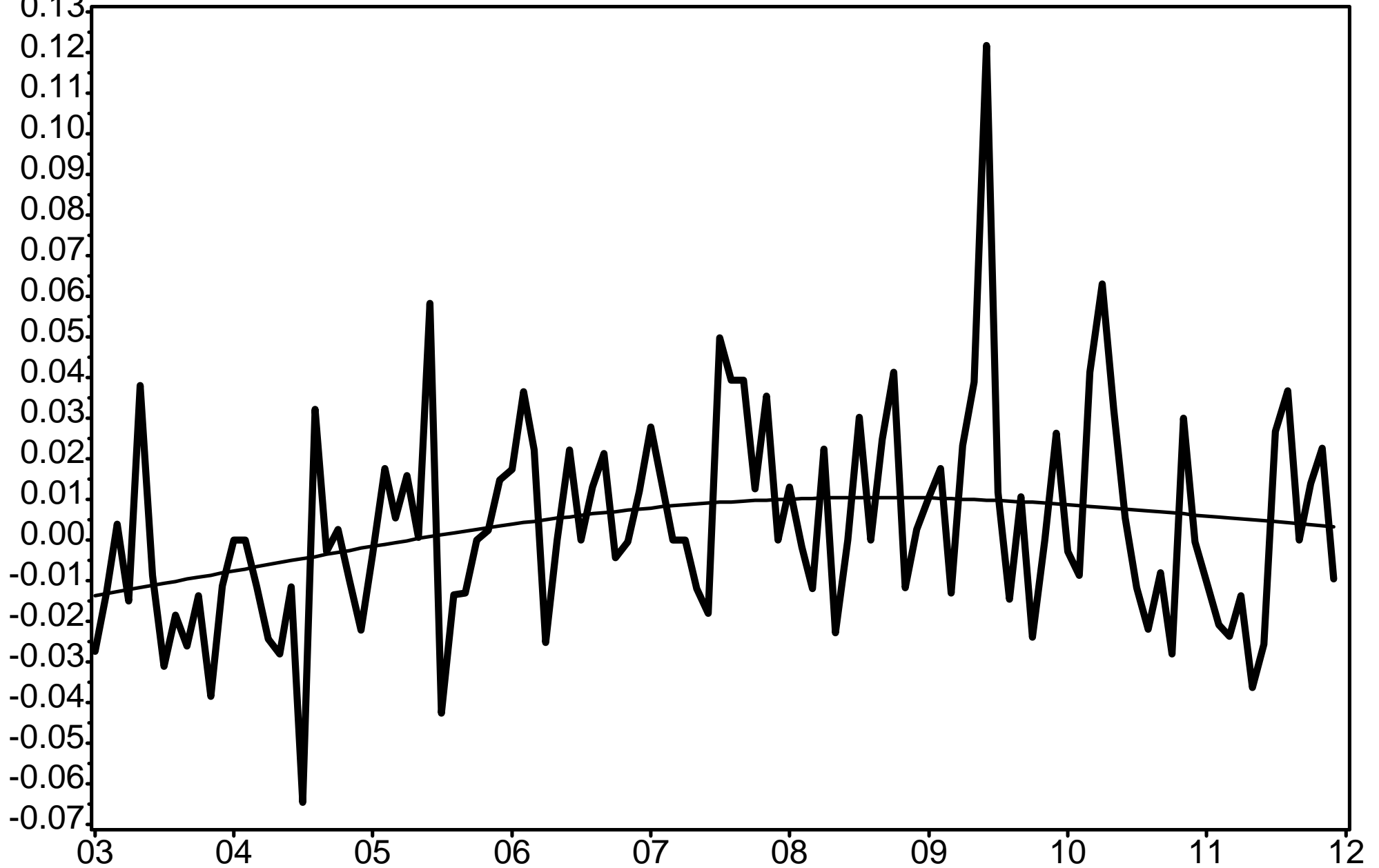
Tidal Caloosahatchee Trends Appendix - Display 1782

Monthly Data Time Series

for Surface Orthophosphate (as P) in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
PO₄_mgl
(mg/l)

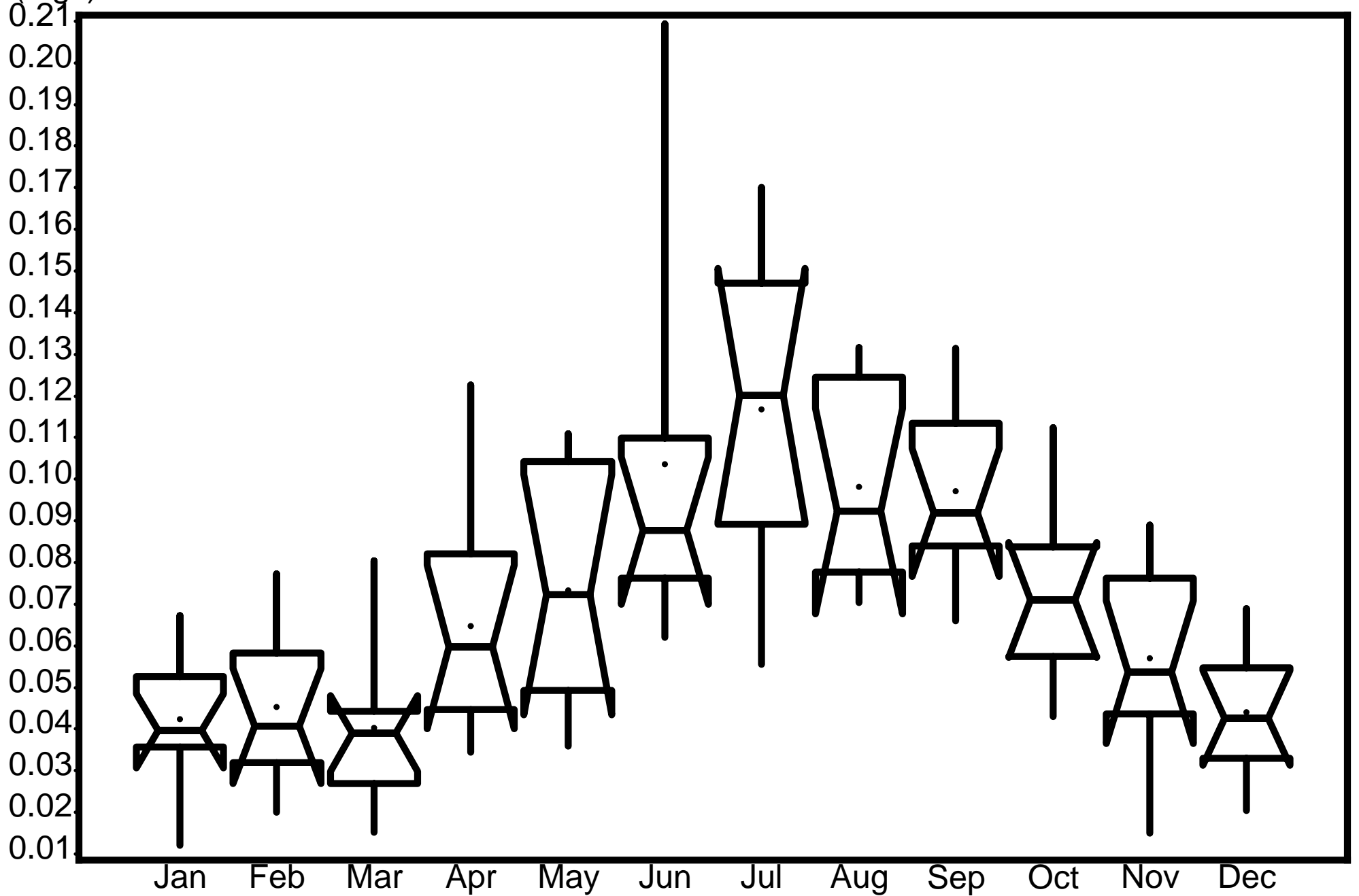


Tidal Caloosahatchee Trends Appendix - Display 1783

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Tidal Caloosahatchee

PO4_mgl
(mg/l)



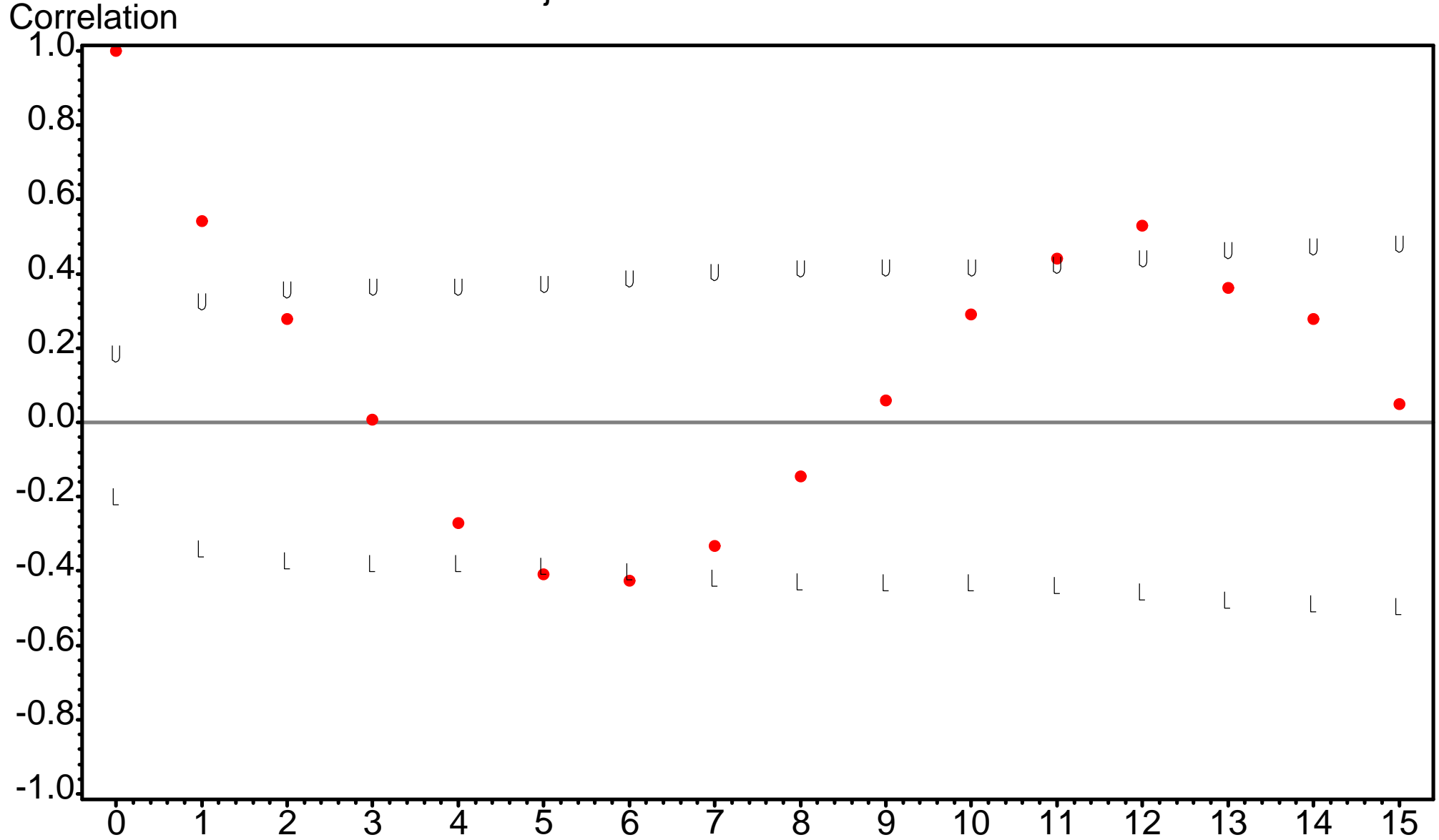
Tidal Caloosahatchee Trends Appendix - Display 1784
Autocorrelation Statistics for Surface Orthophosphate (as P) in Tidal Caloosahatchee

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.541	0.167	0.333	-0.333
2	0.279	0.182	0.364	-0.364
3	0.008	0.186	0.372	-0.372
4	-0.271	0.186	0.372	-0.372
5	-0.408	0.190	0.380	-0.380
6	-0.427	0.198	0.395	-0.395
7	-0.332	0.206	0.412	-0.412
8	-0.146	0.211	0.422	-0.422
9	0.060	0.212	0.424	-0.424
10	0.290	0.212	0.424	-0.424
11	0.440	0.216	0.431	-0.431
12	0.530	0.224	0.448	-0.448
13	0.362	0.235	0.470	-0.470
14	0.279	0.240	0.481	-0.481
15	0.050	0.243	0.487	-0.487

Tidal Caloosahatchee Trends Appendix - Display 1785

Correlogram for Surface Orthophosphate (as P) in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1786
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

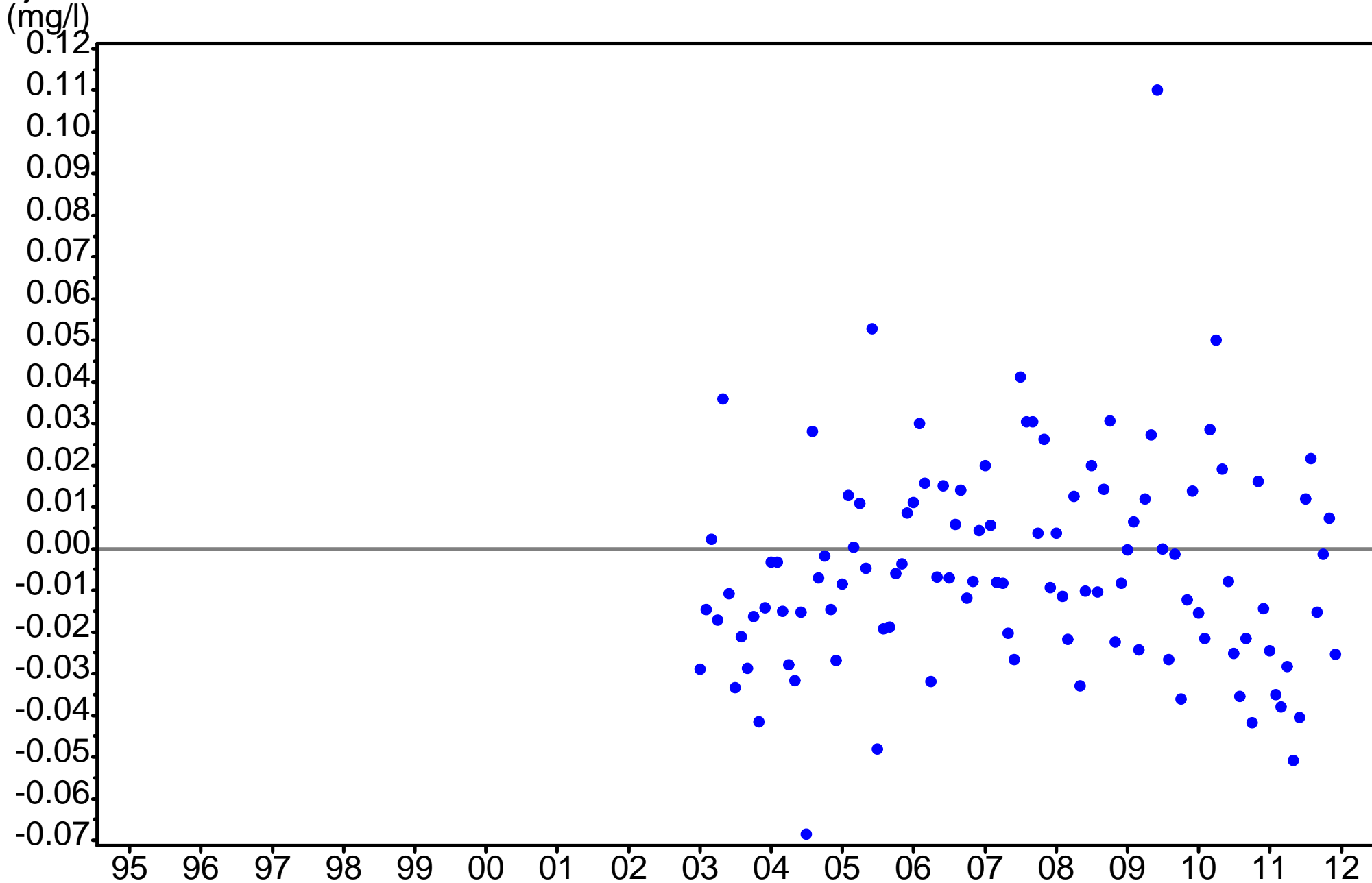
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.103	0.114	0.114	.002

Tidal Caloosahatchee Trends Appendix - Display 1787
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.078704	0.31974	0.51681	.00157143

Tidal Caloosahatchee Trends Appendix - Display 1788

Time Series Plot of Surface Orthophosphate (as P) Data Adjusted for Season and Detrended
Adjusted
Tidal Caloosahatchee



Zero Reference Line Shown

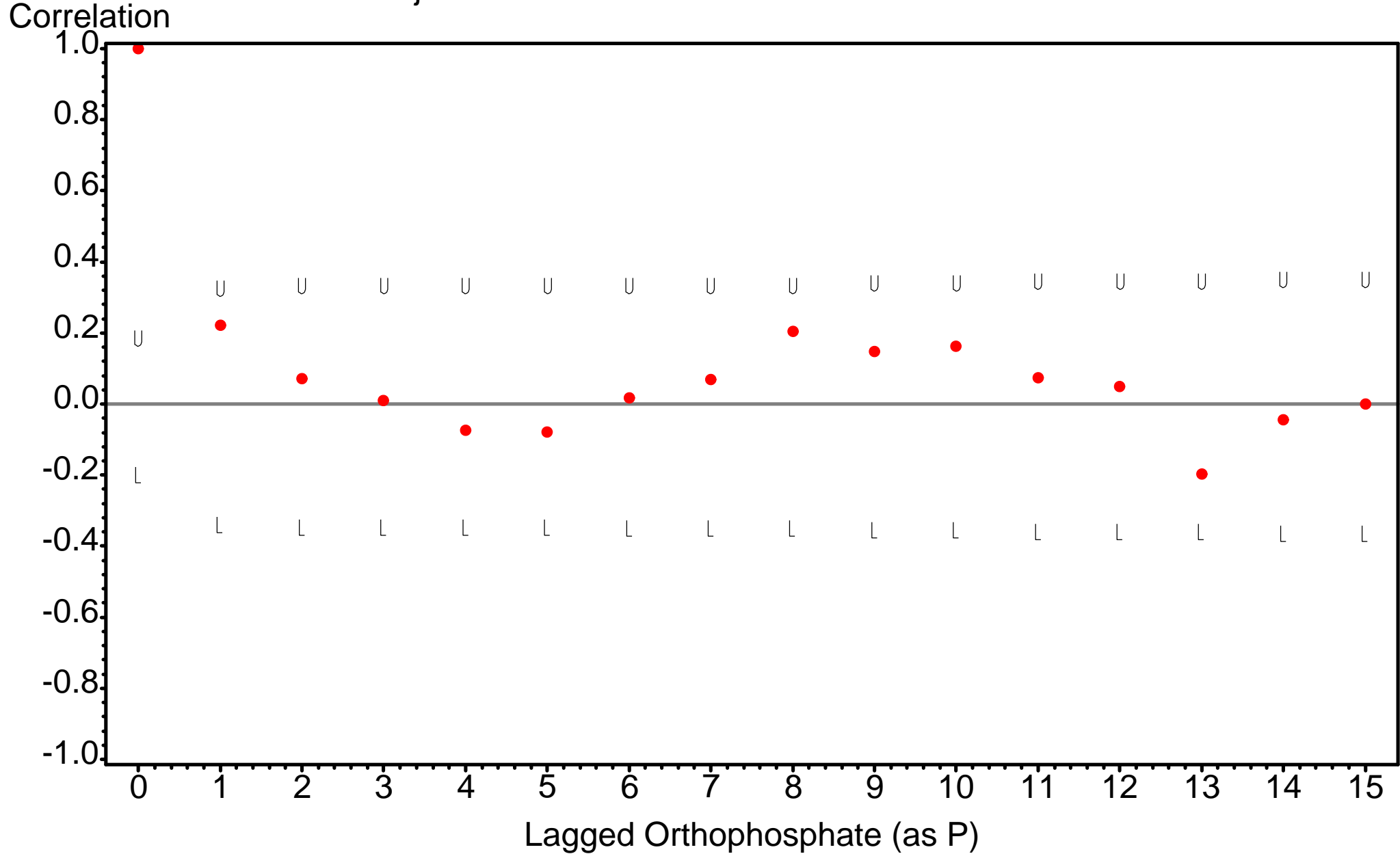
Tidal Caloosahatchee Trends Appendix - Display 1789
Autocorrelation Statistics for Surface Orthophosphate (as P) in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.222	0.167	0.333	-0.333
2	0.072	0.169	0.339	-0.339
3	0.010	0.170	0.339	-0.339
4	-0.075	0.170	0.339	-0.339
5	-0.079	0.170	0.340	-0.340
6	0.017	0.170	0.341	-0.341
7	0.069	0.170	0.341	-0.341
8	0.205	0.171	0.341	-0.341
9	0.147	0.173	0.346	-0.346
10	0.163	0.174	0.348	-0.348
11	0.074	0.175	0.351	-0.351
12	0.050	0.176	0.351	-0.351
13	-0.196	0.176	0.352	-0.352
14	-0.044	0.178	0.356	-0.356
15	0.001	0.178	0.356	-0.356

Tidal Caloosahatchee Trends Appendix - Display 1790

Correlogram for Surface Orthophosphate (as P) in Tidal Caloosahatchee

Adjusted for Seasonal Median and Detrended

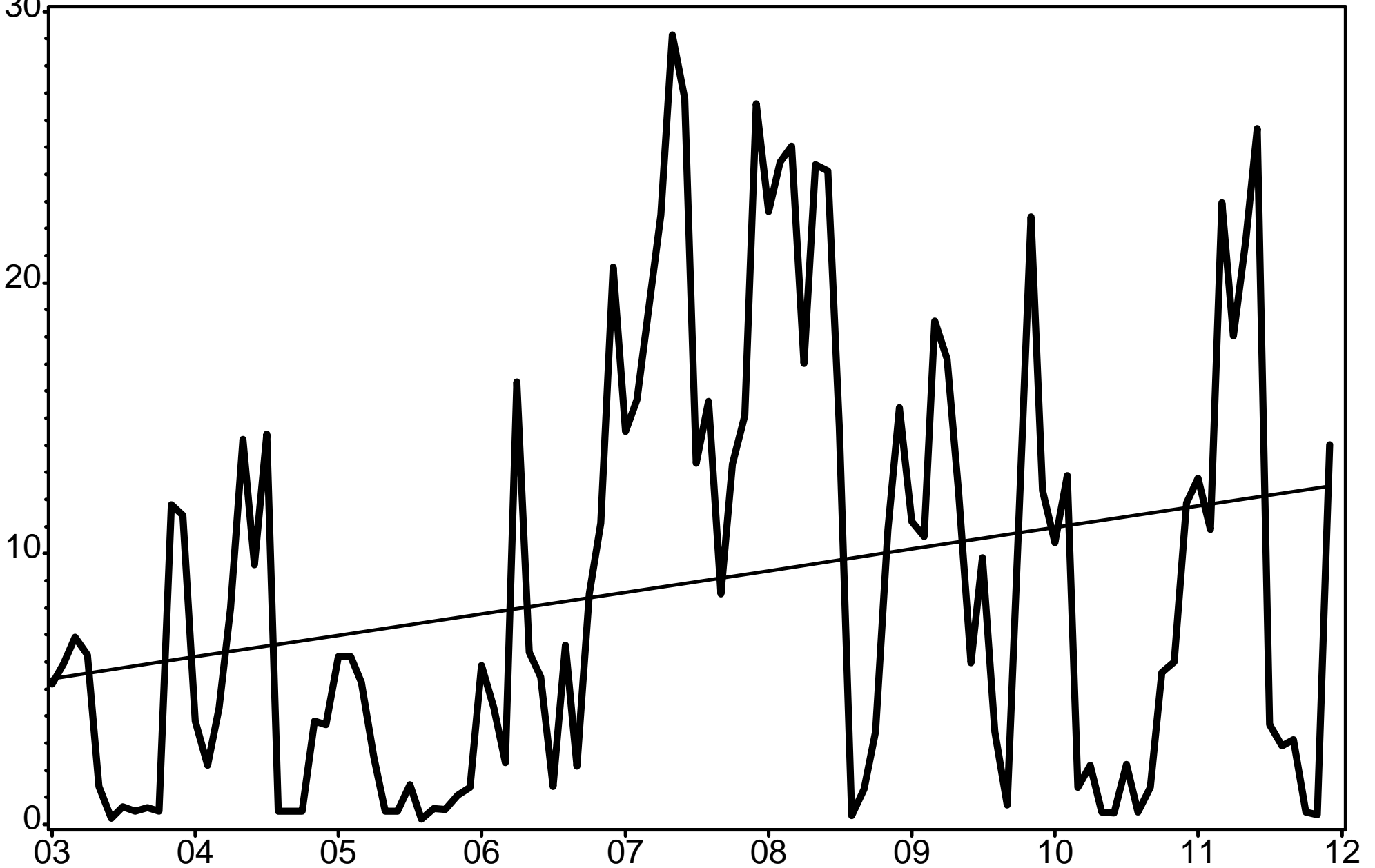


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1791

Monthly Data Time Series
for Surface Salinity in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians

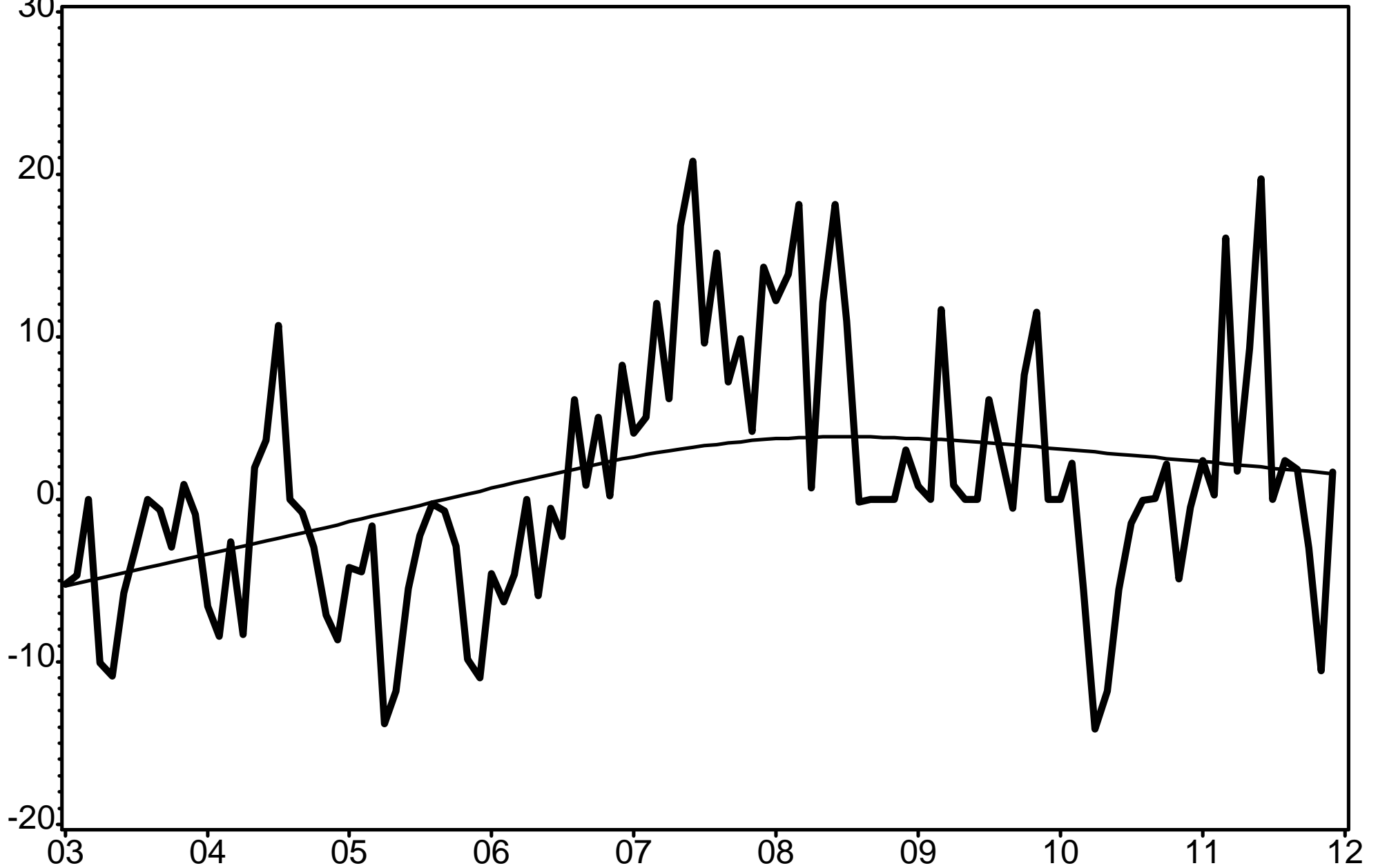
Salinity
(ppt)



Tidal Caloosahatchee Trends Appendix - Display 1792

Monthly Data Time Series
for Surface Salinity in Tidal Caloosahatchee
Adjusted for Seasonal Medians

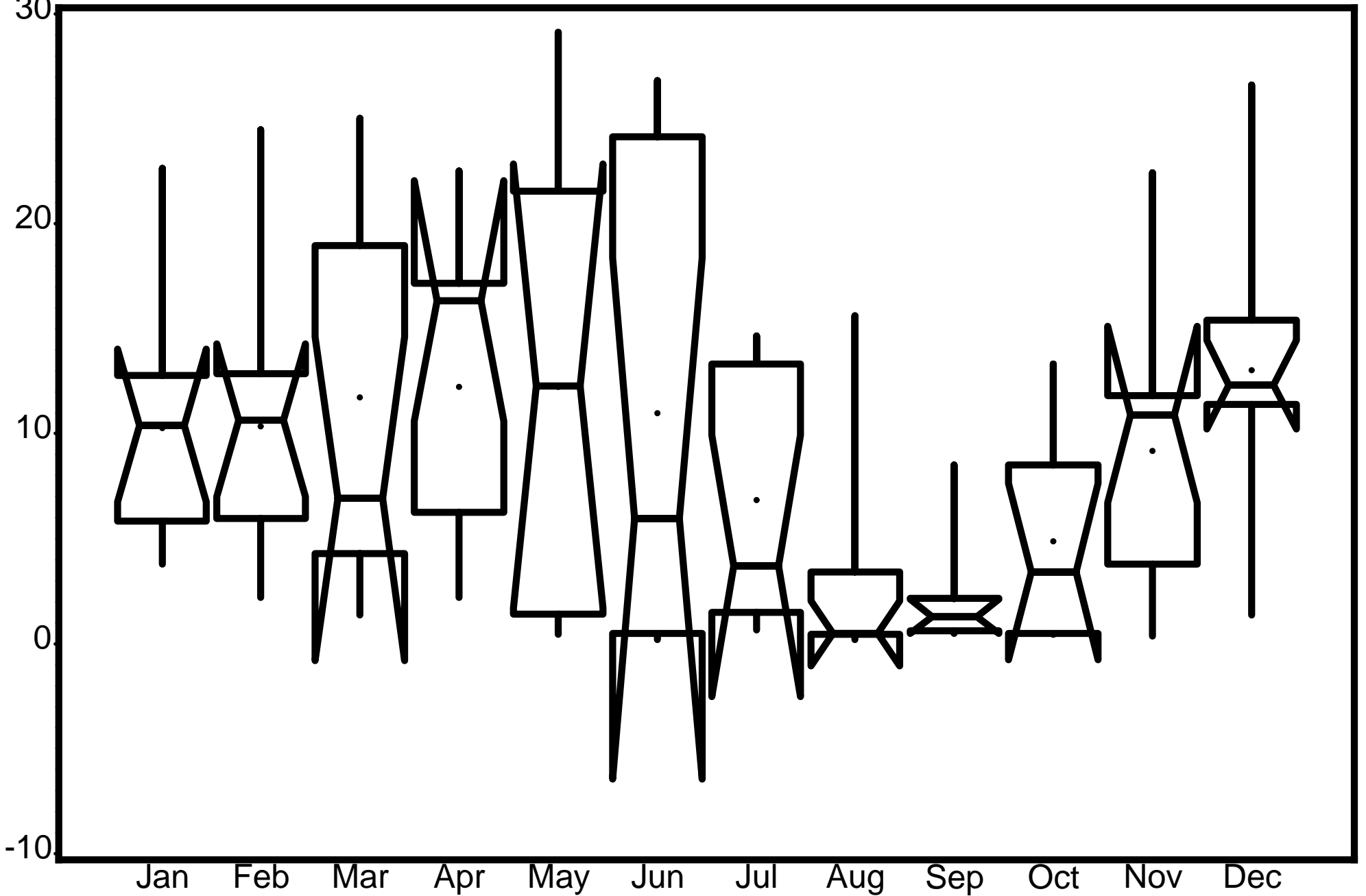
Adjusted
Salinity
(ppt)



Tidal Caloosahatchee Trends Appendix - Display 1793

Seasonal Univariate Statistics for Surface Salinity in Tidal Caloosahatchee

Salinity
(ppt)



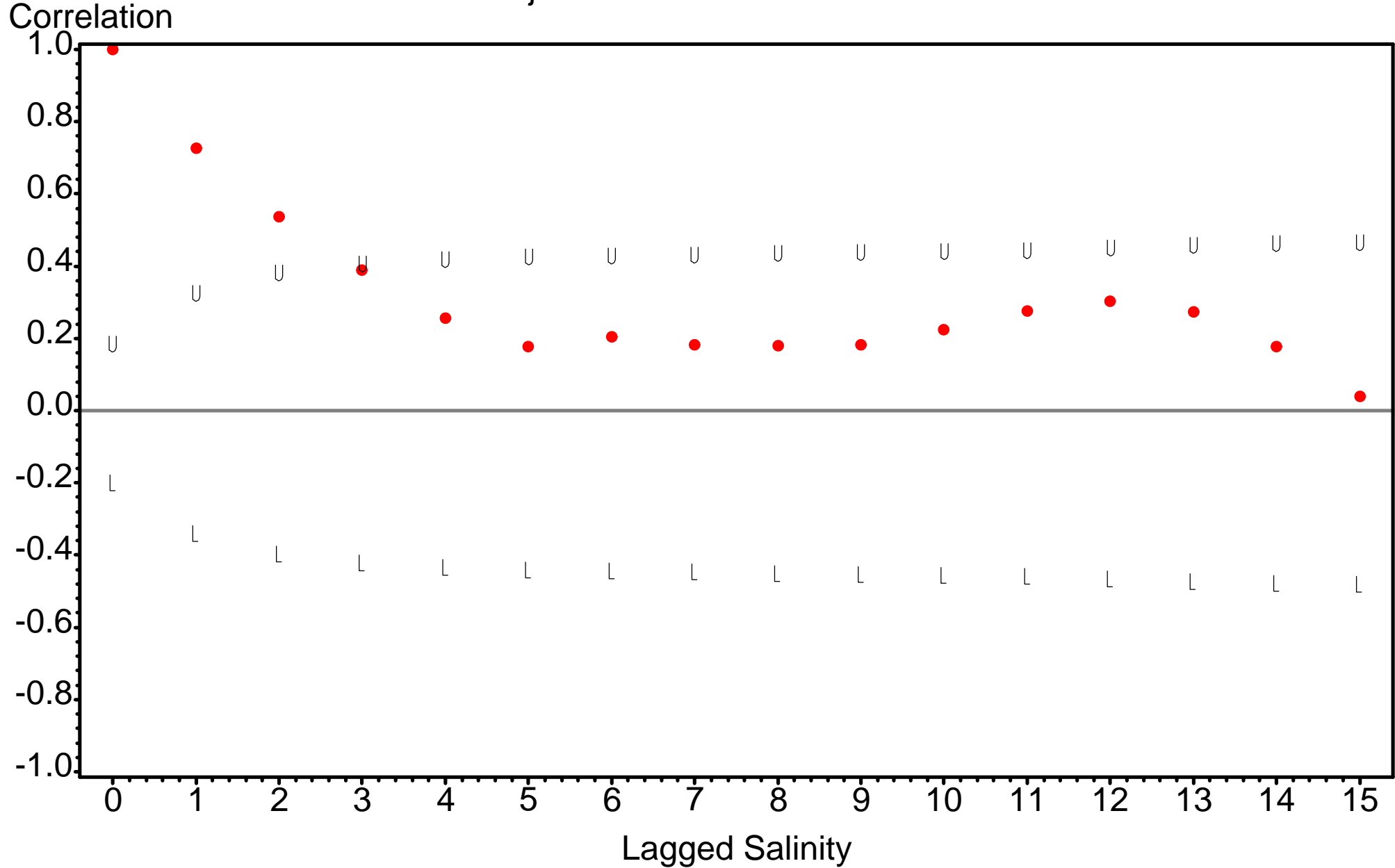
Tidal Caloosahatchee Trends Appendix - Display 1794
Autocorrelation Statistics for Surface Salinity in Tidal Caloosahatchee

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.727	0.167	0.333	-0.333
2	0.536	0.194	0.388	-0.388
3	0.388	0.207	0.414	-0.414
4	0.256	0.214	0.427	-0.427
5	0.177	0.216	0.433	-0.433
6	0.204	0.218	0.436	-0.436
7	0.183	0.220	0.439	-0.439
8	0.180	0.221	0.442	-0.442
9	0.181	0.222	0.445	-0.445
10	0.223	0.224	0.447	-0.447
11	0.277	0.226	0.451	-0.451
12	0.302	0.229	0.458	-0.458
13	0.274	0.233	0.465	-0.465
14	0.178	0.235	0.471	-0.471
15	0.039	0.237	0.473	-0.473

Tidal Caloosahatchee Trends Appendix - Display 1795

Correlogram for Surface Salinity in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1796
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.159	0.015	0.015	0.619

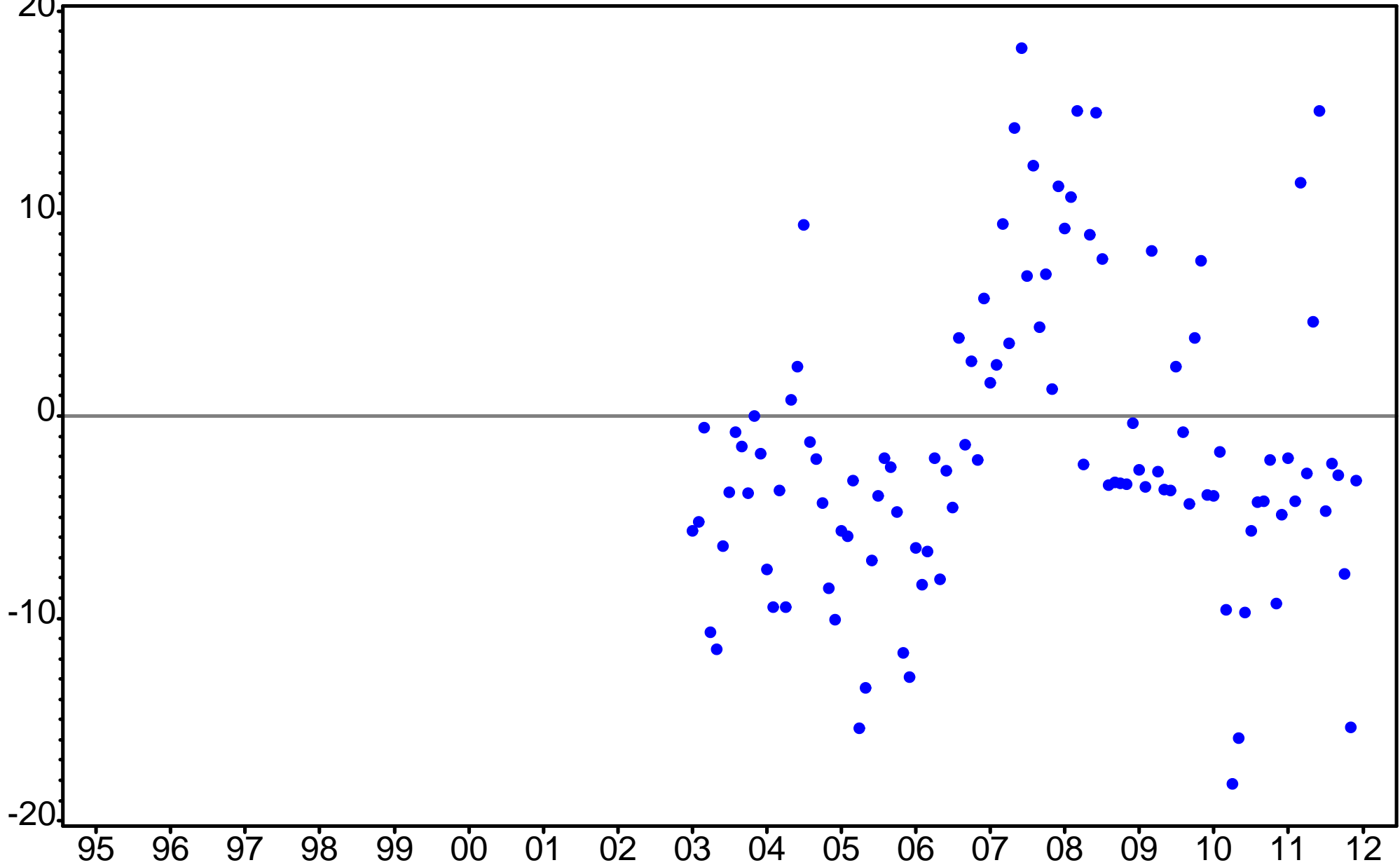
Tidal Caloosahatchee Trends Appendix - Display 1797
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.23148	.00286114	0.21494	0.49442

Tidal Caloosahatchee Trends Appendix - Display 1798

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(ppt)



Zero Reference Line Shown

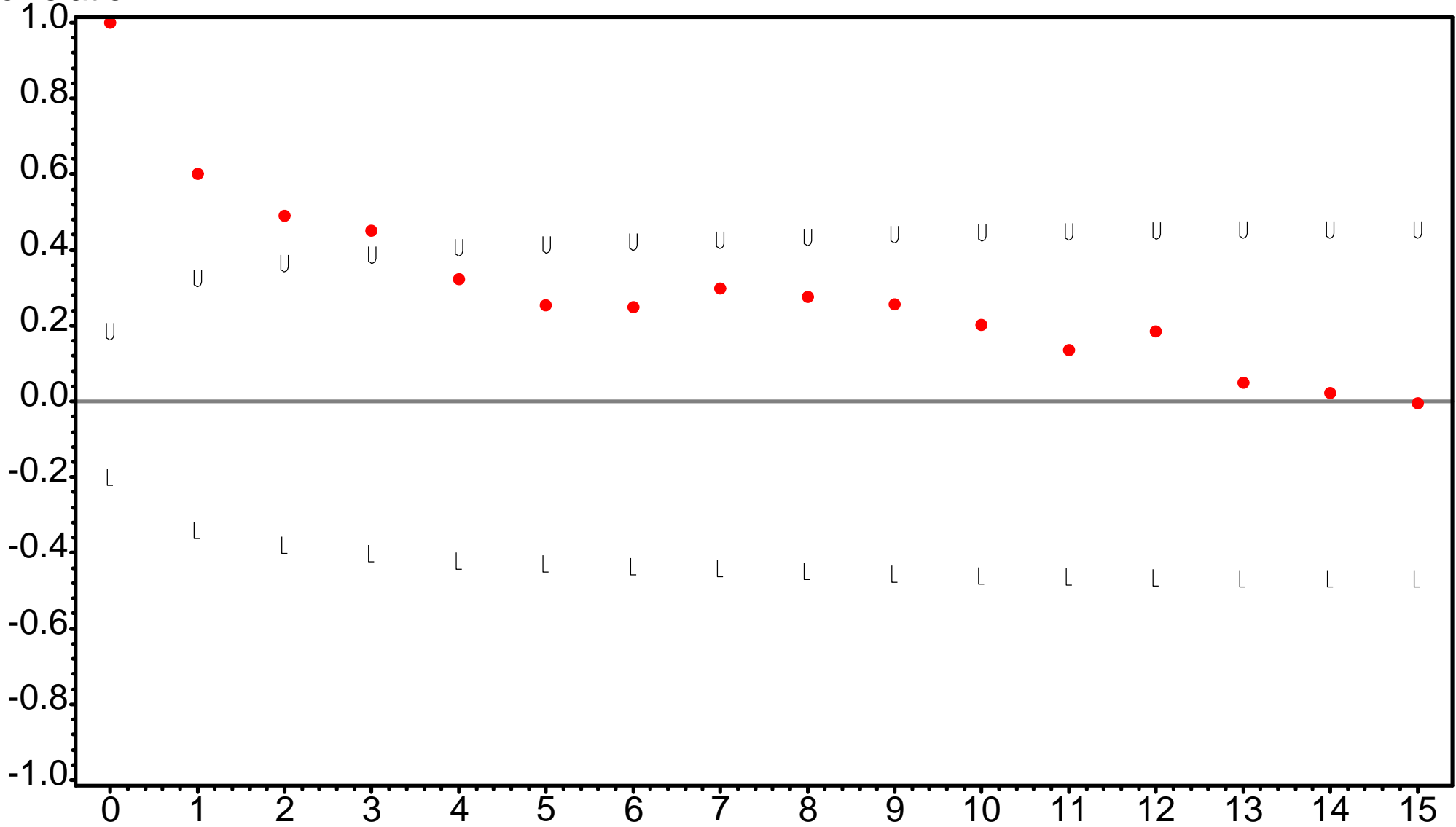
Tidal Caloosahatchee Trends Appendix - Display 1799
Autocorrelation Statistics for Surface Salinity in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.600	0.167	0.333	-0.333
2	0.489	0.186	0.371	-0.371
3	0.451	0.197	0.394	-0.394
4	0.322	0.206	0.413	-0.413
5	0.253	0.211	0.422	-0.422
6	0.249	0.214	0.428	-0.428
7	0.299	0.217	0.433	-0.433
8	0.275	0.220	0.441	-0.441
9	0.256	0.223	0.447	-0.447
10	0.201	0.226	0.452	-0.452
11	0.136	0.228	0.456	-0.456
12	0.185	0.229	0.457	-0.457
13	0.049	0.230	0.460	-0.460
14	0.021	0.230	0.460	-0.460
15	-0.004	0.230	0.460	-0.460

Tidal Caloosahatchee Trends Appendix - Display 1800

Correlogram for Surface Salinity in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Correlation



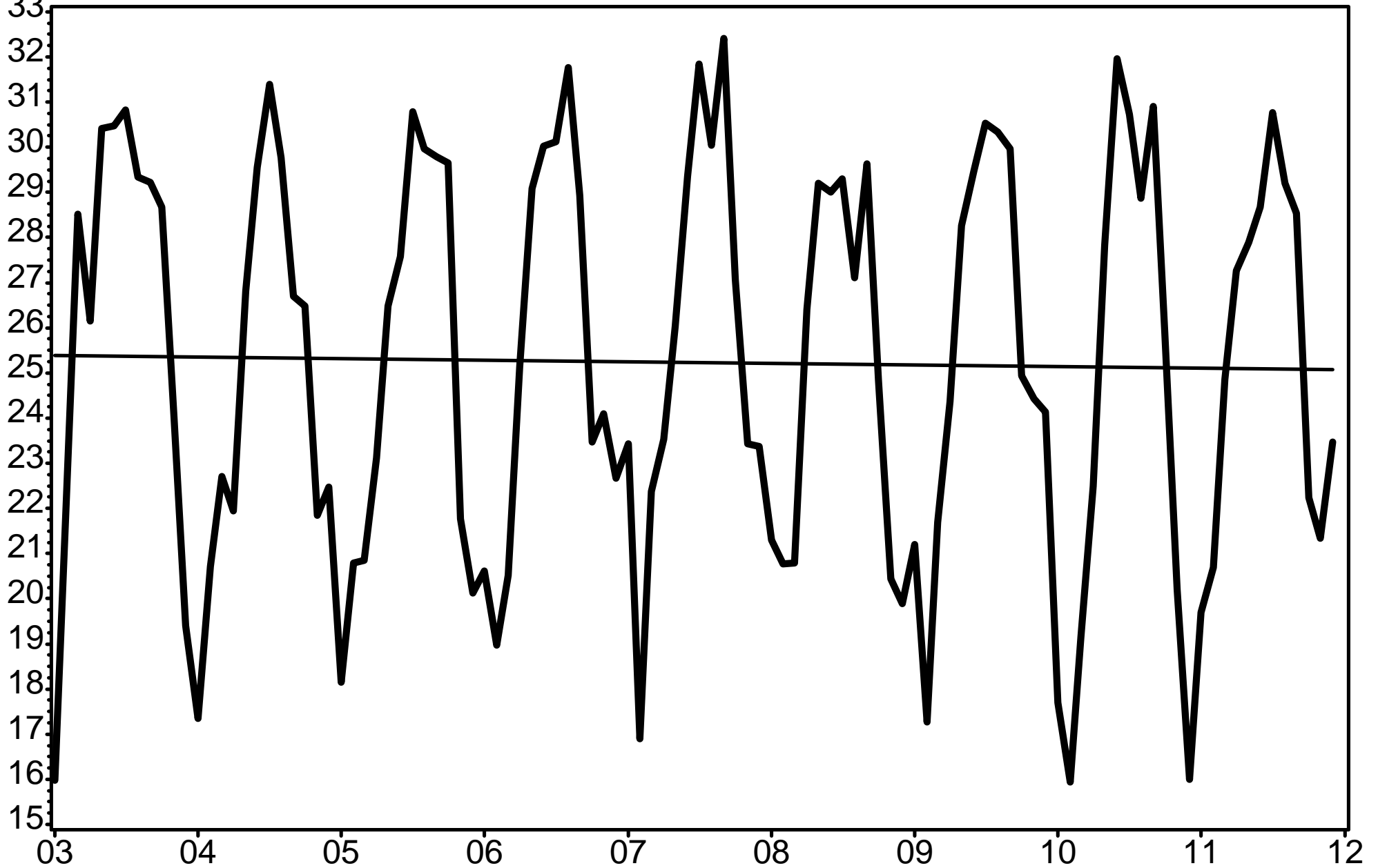
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1801

Monthly Data Time Series
for Surface Temperature in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)



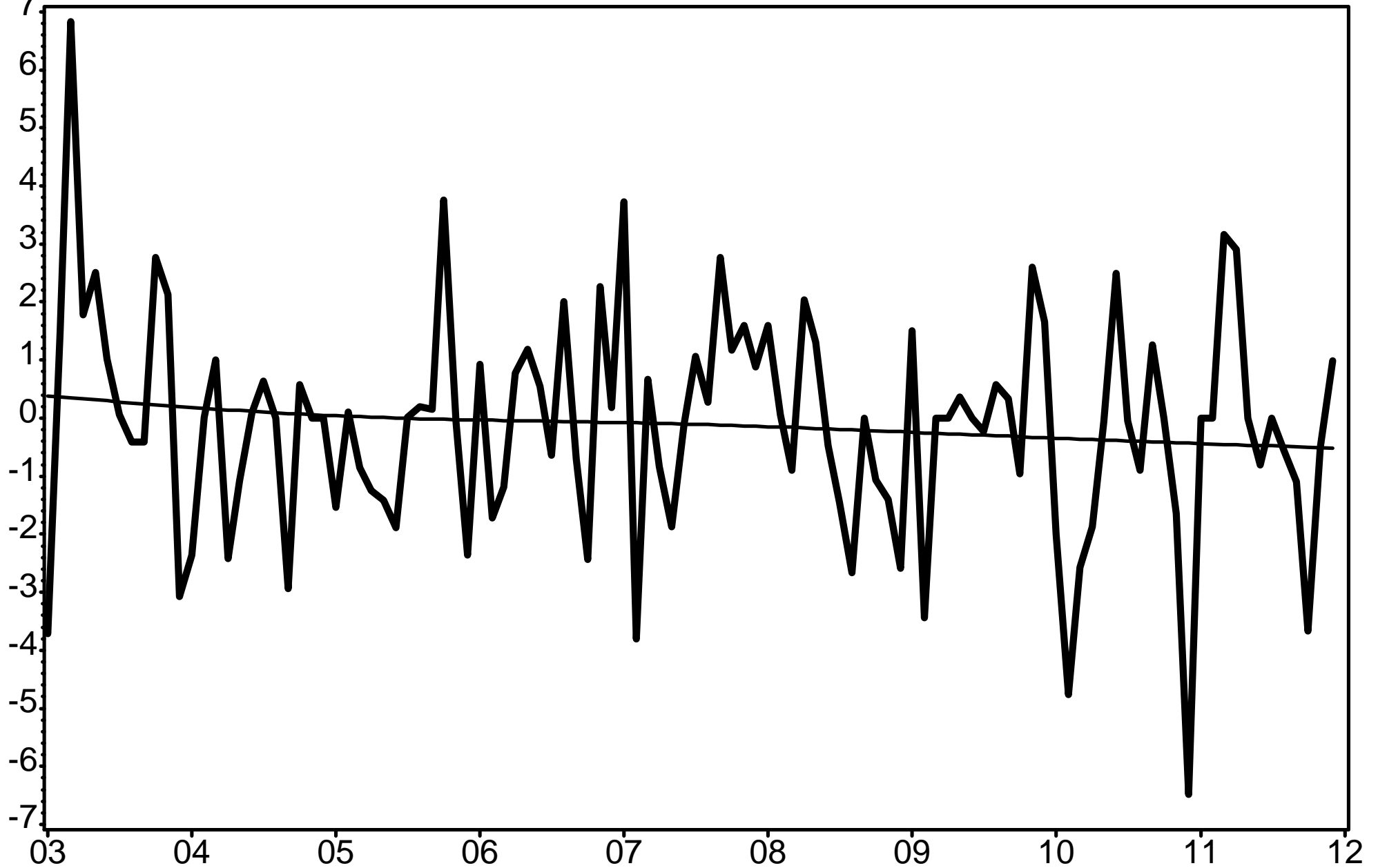
Tidal Caloosahatchee Trends Appendix - Display 1802

Monthly Data Time Series

for Surface Temperature in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TEMP_C
(Degree C)

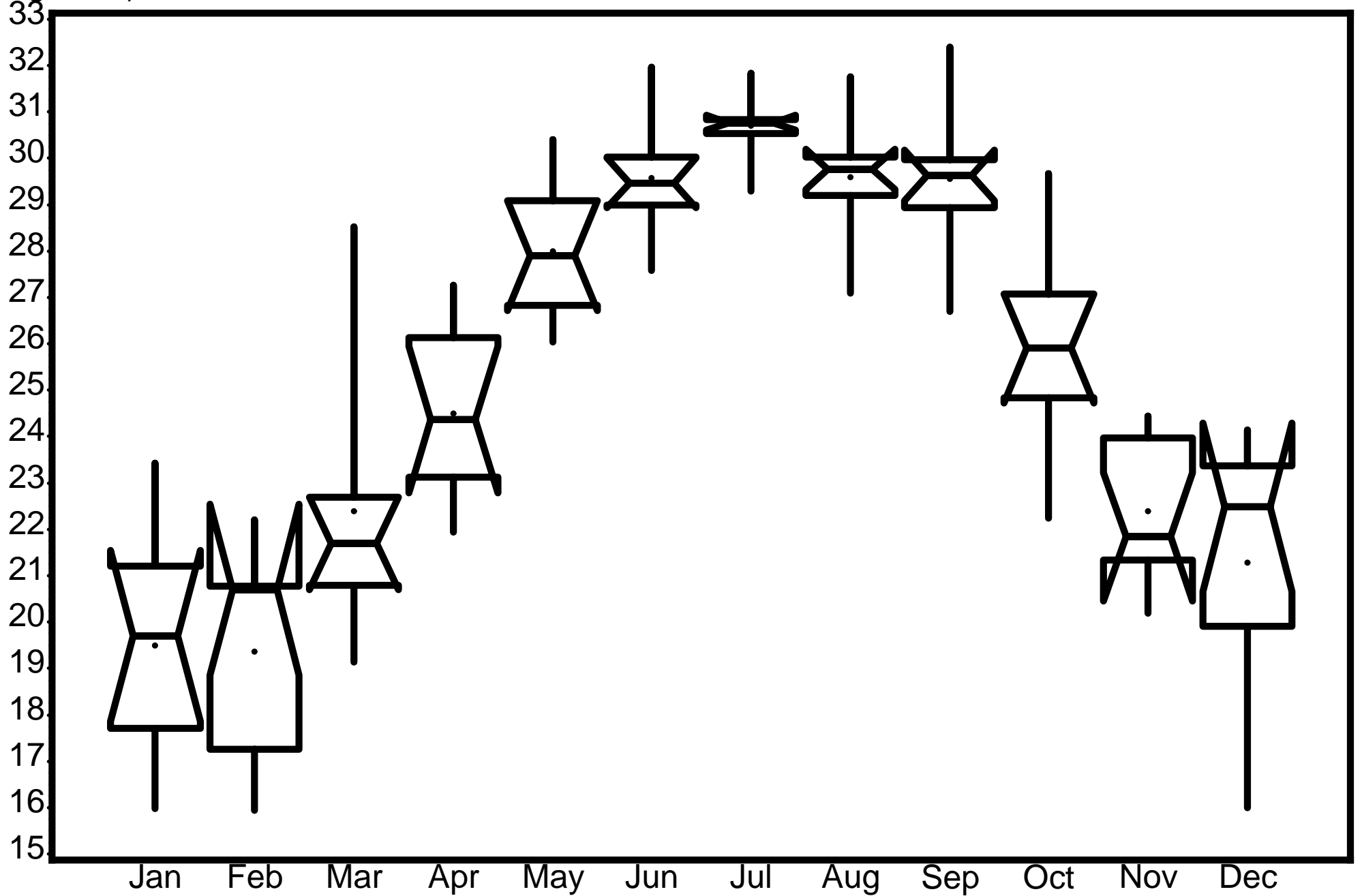


Tidal Caloosahatchee Trends Appendix - Display 1803

Seasonal Univariate Statistics

for Surface Temperature in Tidal Caloosahatchee

TEMP_C
(Degree C)



Tidal Caloosahatchee Trends Appendix - Display 1804

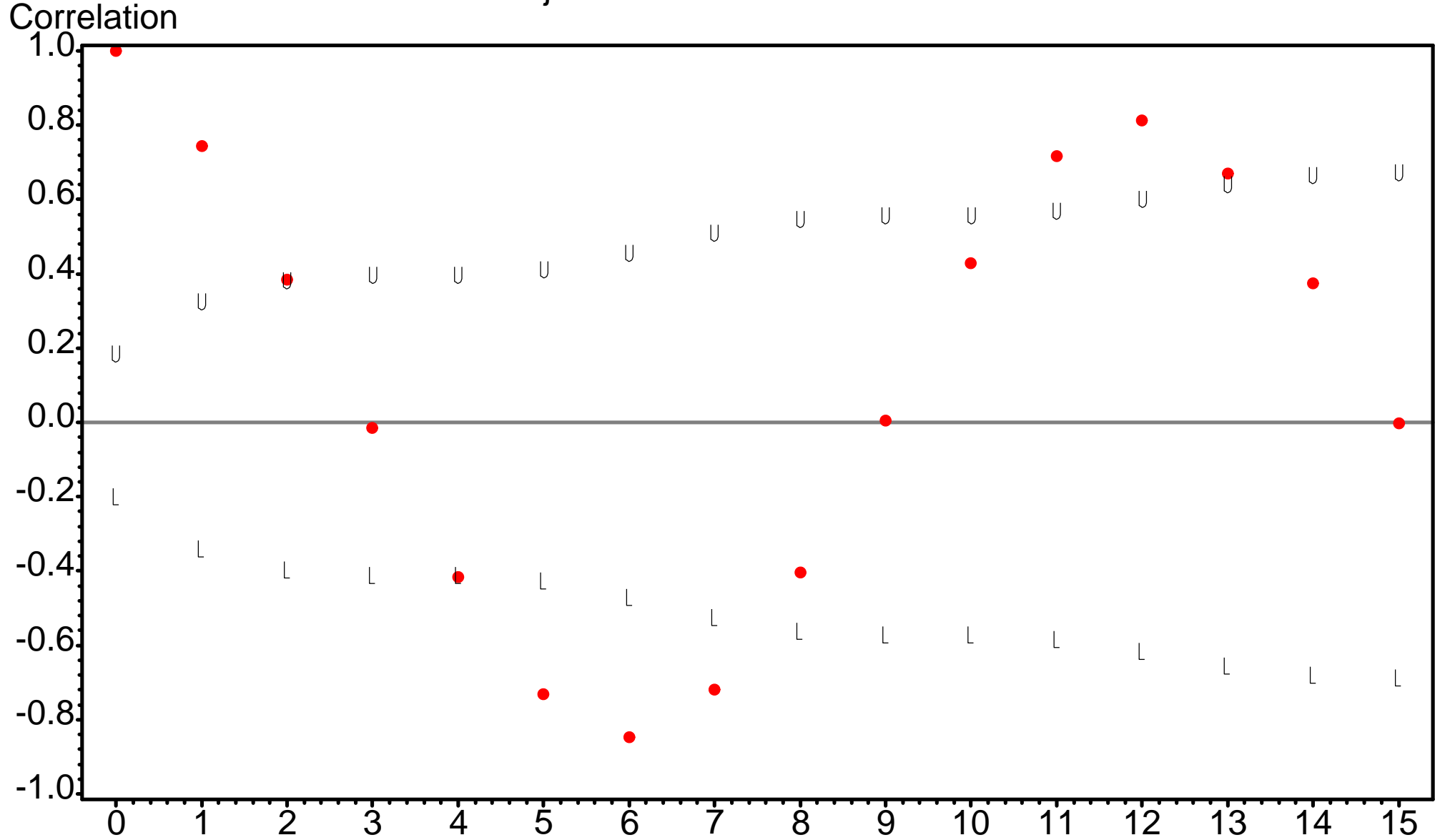
Autocorrelation Statistics for Surface Temperature in Tidal Caloosahatchee

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.743	0.167	0.333	-0.333
2	0.383	0.195	0.390	-0.390
3	-0.014	0.202	0.404	-0.404
4	-0.416	0.202	0.404	-0.404
5	-0.731	0.210	0.419	-0.419
6	-0.846	0.232	0.464	-0.464
7	-0.719	0.259	0.518	-0.518
8	-0.404	0.277	0.554	-0.554
9	0.004	0.282	0.564	-0.564
10	0.428	0.282	0.564	-0.564
11	0.717	0.288	0.576	-0.576
12	0.813	0.304	0.608	-0.608
13	0.669	0.324	0.647	-0.647
14	0.374	0.336	0.673	-0.673
15	-0.002	0.340	0.680	-0.680

Tidal Caloosahatchee Trends Appendix - Display 1805

Correlogram for Surface Temperature in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1806
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.014	0.828	0.828	-0.032

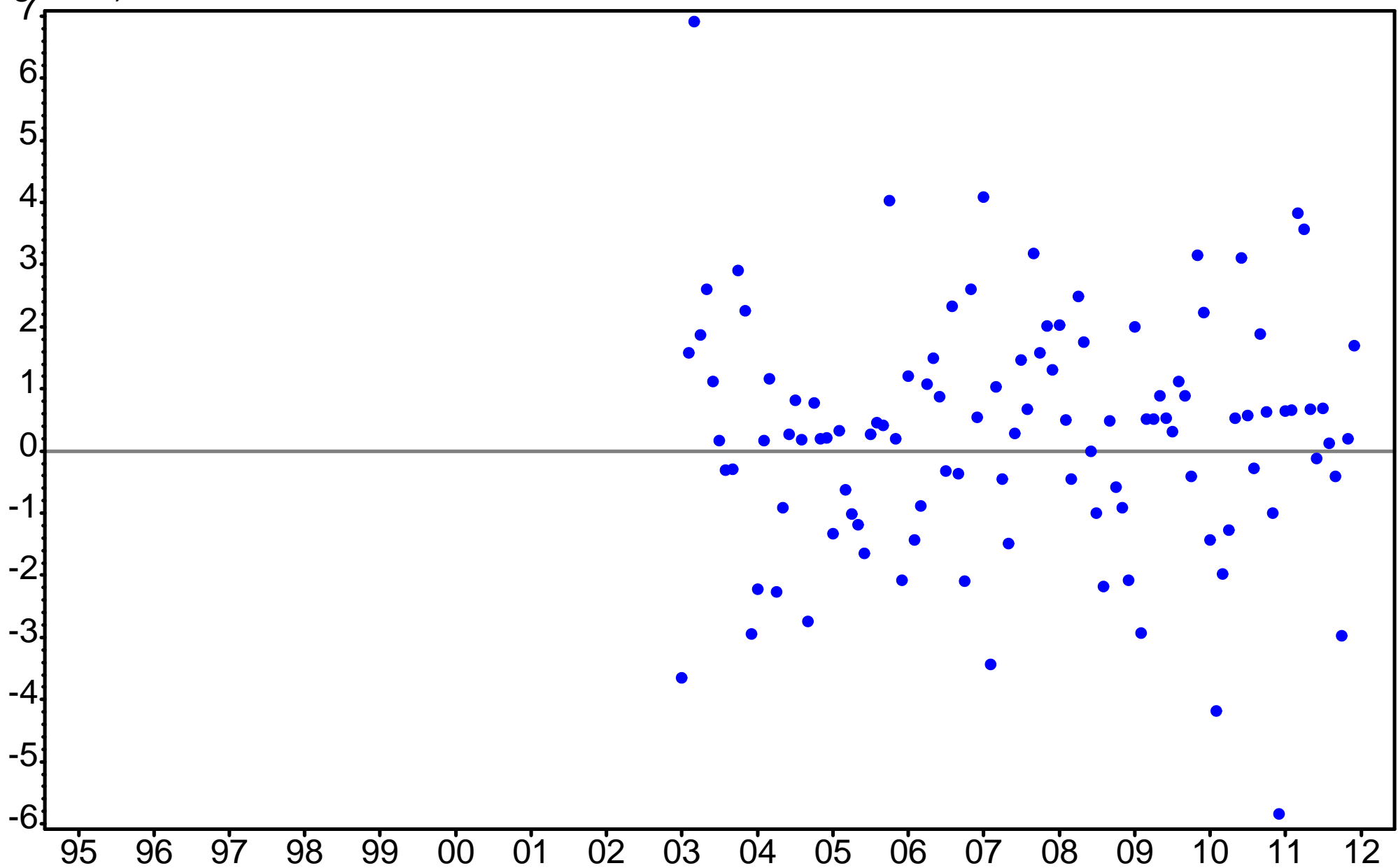
Tidal Caloosahatchee Trends Appendix - Display 1807
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.083333	0.29217	0.35591	-0.071798

Tidal Caloosahatchee Trends Appendix - Display 1808

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(Degree C)



Zero Reference Line Shown

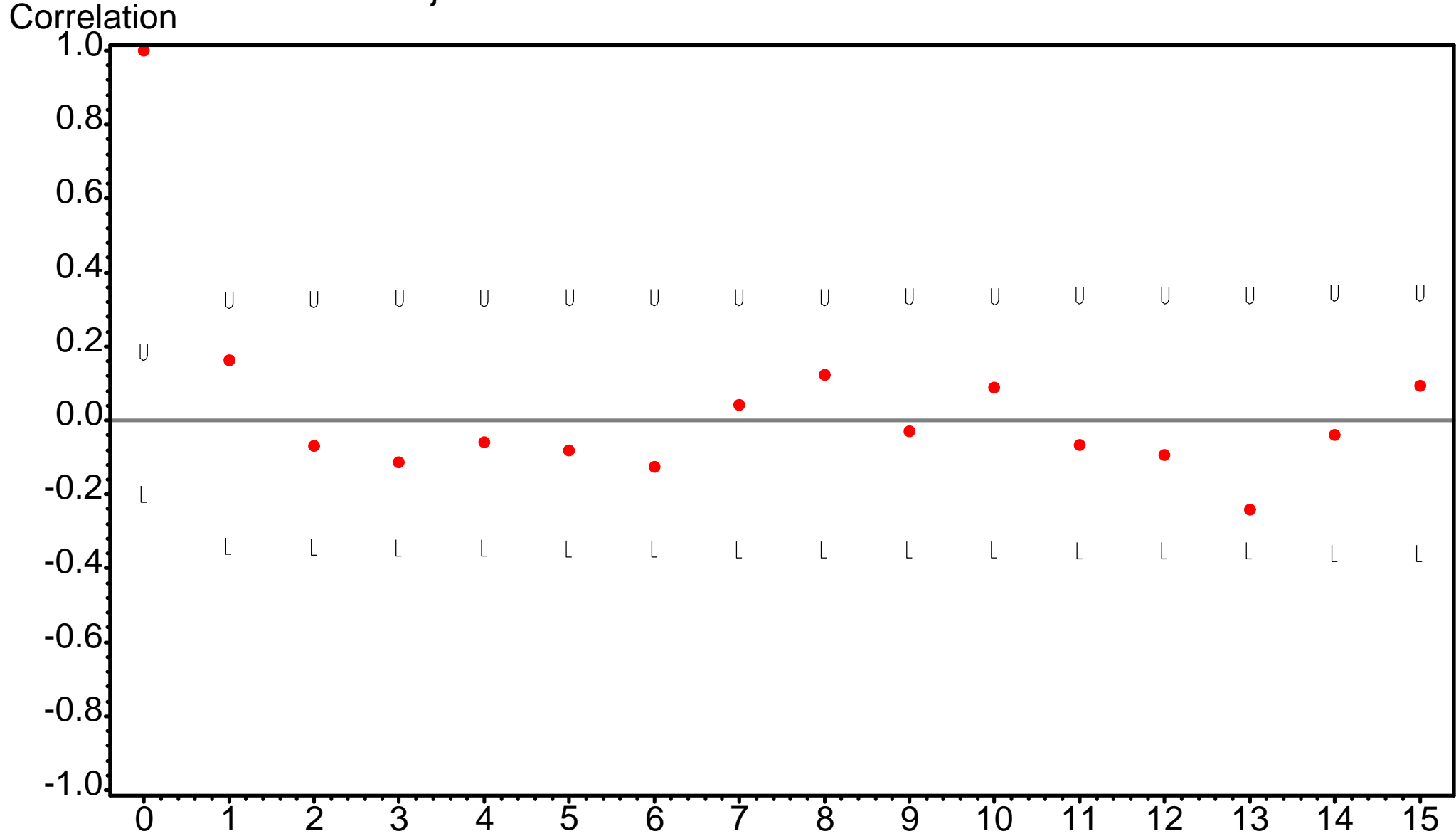
Tidal Caloosahatchee Trends Appendix - Display 1809
Autocorrelation Statistics for Surface Temperature in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.163	0.167	0.333	-0.333
2	-0.068	0.168	0.336	-0.336
3	-0.113	0.168	0.337	-0.337
4	-0.058	0.169	0.338	-0.338
5	-0.082	0.169	0.339	-0.339
6	-0.125	0.170	0.339	-0.339
7	0.043	0.170	0.341	-0.341
8	0.122	0.171	0.341	-0.341
9	-0.030	0.171	0.343	-0.343
10	0.089	0.171	0.343	-0.343
11	-0.067	0.172	0.344	-0.344
12	-0.094	0.172	0.344	-0.344
13	-0.242	0.173	0.345	-0.345
14	-0.040	0.176	0.351	-0.351
15	0.093	0.176	0.352	-0.352

Tidal Caloosahatchee Trends Appendix - Display 1810

Correlogram for Surface Temperature in Tidal Caloosahatchee

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

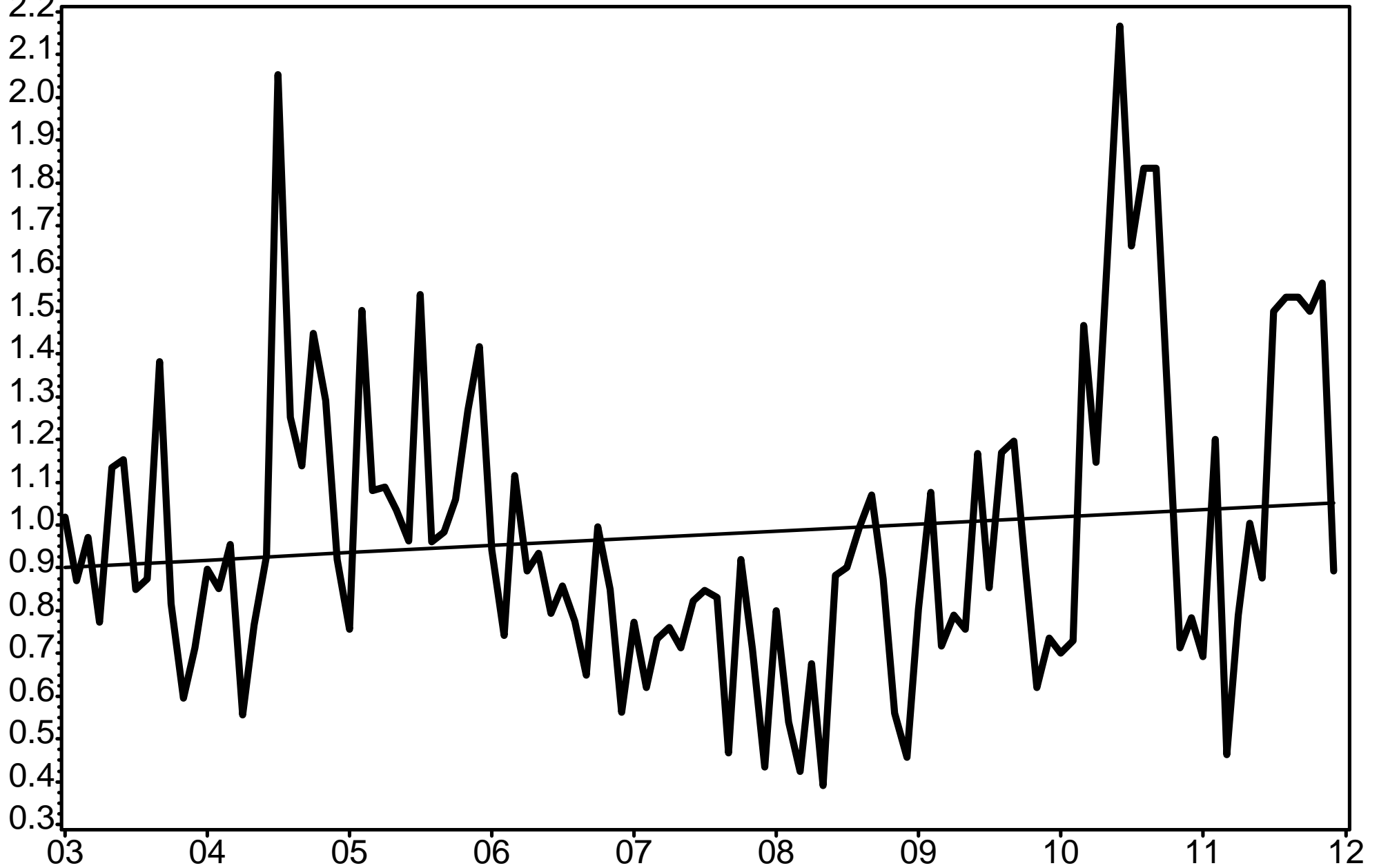
Tidal Caloosahatchee Trends Appendix - Display 1811

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



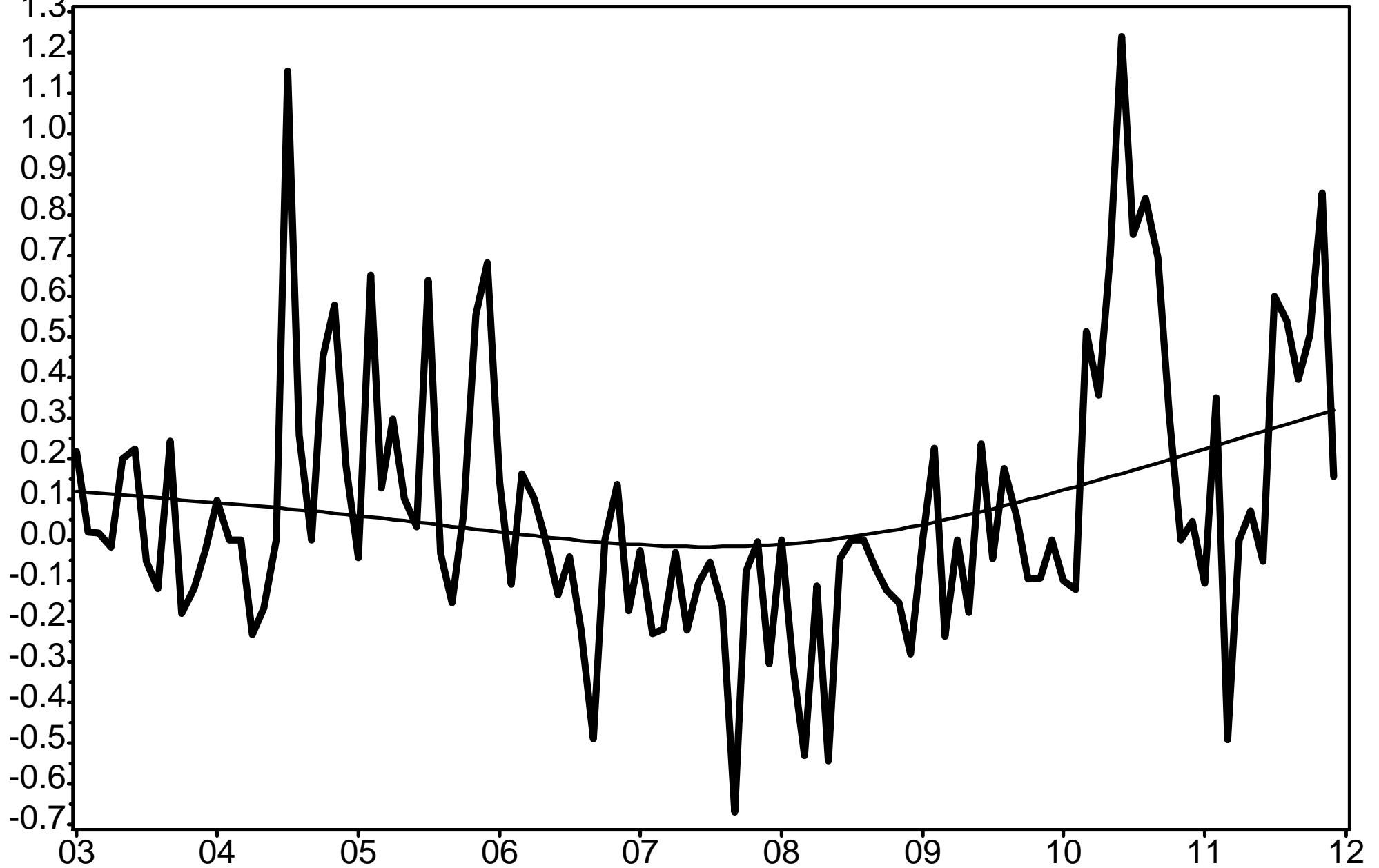
Tidal Caloosahatchee Trends Appendix - Display 1812

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

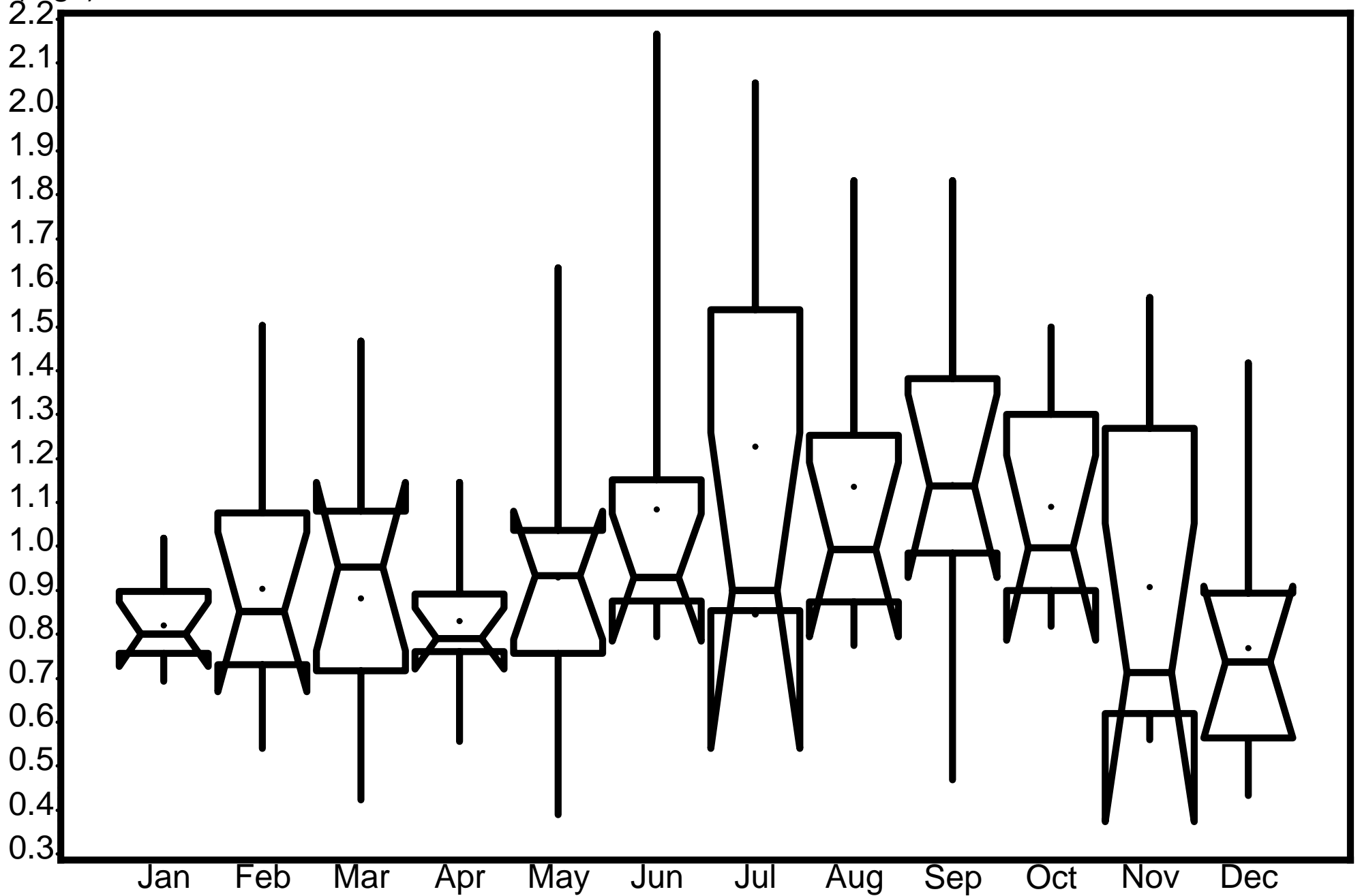


Tidal Caloosahatchee Trends Appendix - Display 1813

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee

TKN_mgl
(mg/l)



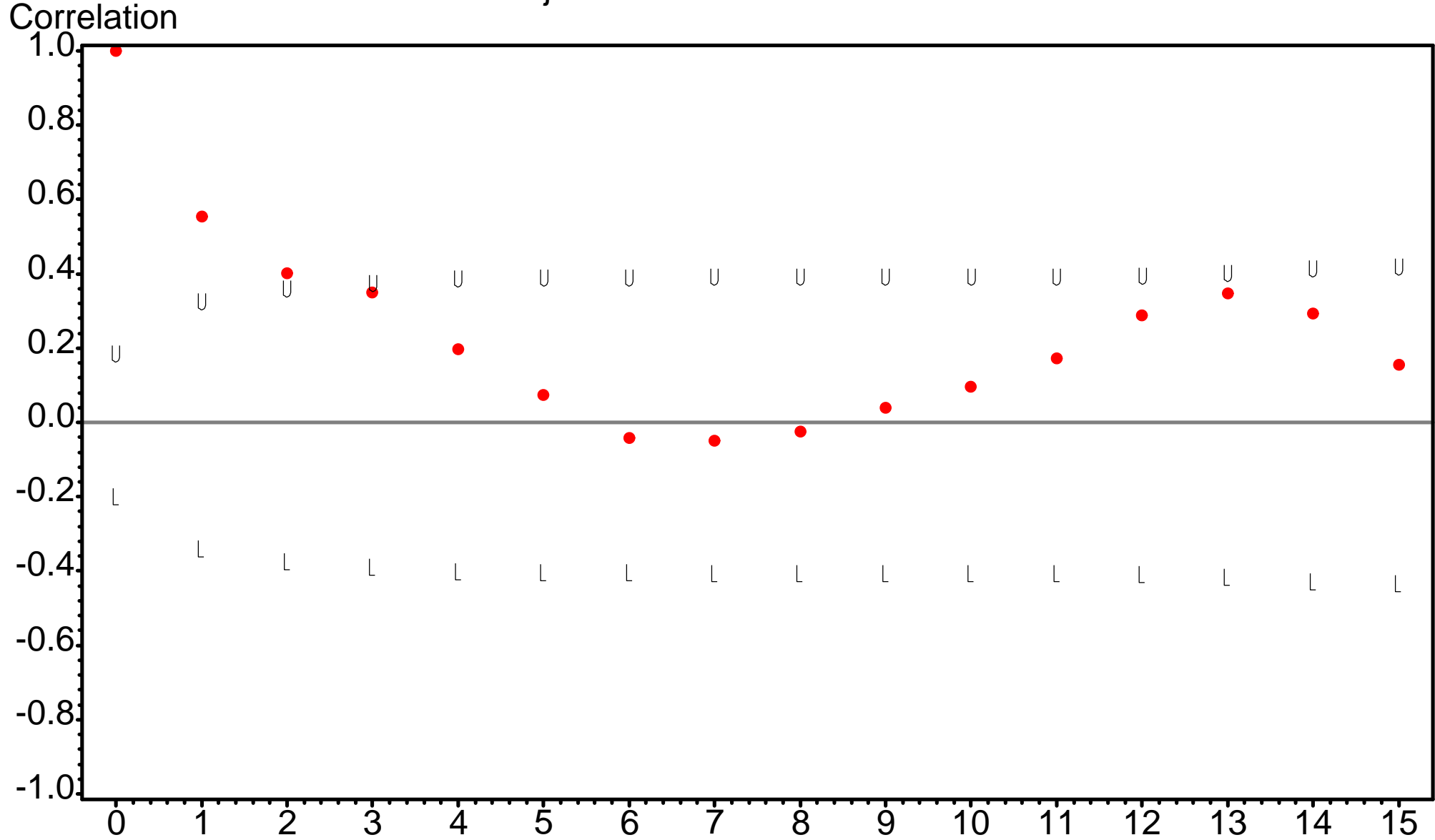
Tidal Caloosahatchee Trends Appendix - Display 1814
 Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.553	0.167	0.333	-0.333
2	0.402	0.183	0.366	-0.366
3	0.349	0.191	0.382	-0.382
4	0.197	0.197	0.393	-0.393
5	0.073	0.198	0.397	-0.397
6	-0.043	0.199	0.397	-0.397
7	-0.049	0.199	0.398	-0.398
8	-0.024	0.199	0.398	-0.398
9	0.039	0.199	0.398	-0.398
10	0.097	0.199	0.398	-0.398
11	0.172	0.199	0.399	-0.399
12	0.288	0.201	0.402	-0.402
13	0.346	0.205	0.409	-0.409
14	0.292	0.210	0.420	-0.420
15	0.155	0.214	0.427	-0.427

Tidal Caloosahatchee Trends Appendix - Display 1815

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1816
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

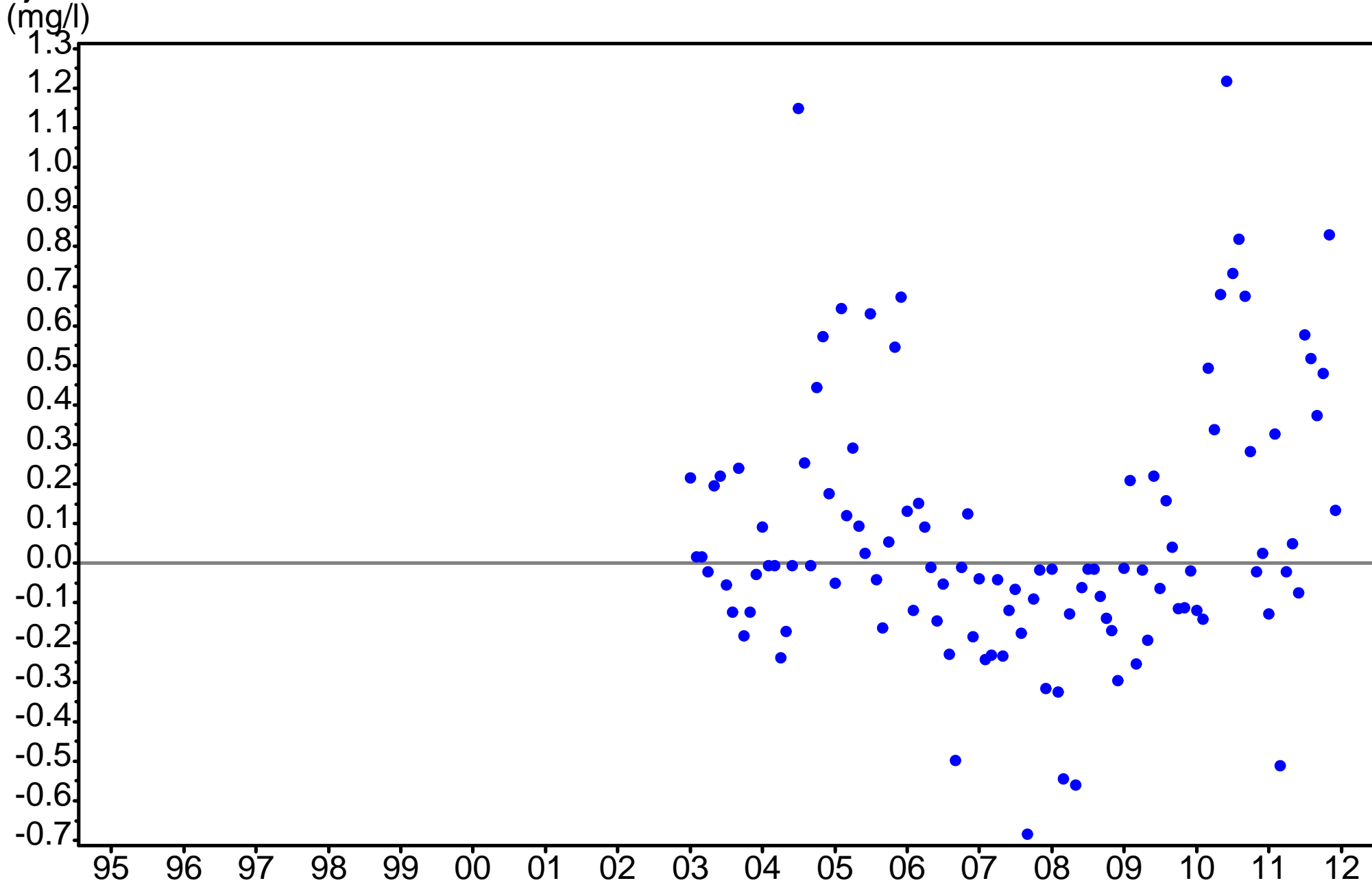
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.008	0.899	0.899	.001

Tidal Caloosahatchee Trends Appendix - Display 1817
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.016204	0.85663	0.92689	.002375

Tidal Caloosahatchee Trends Appendix - Display 1818

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted
Tidal Caloosahatchee



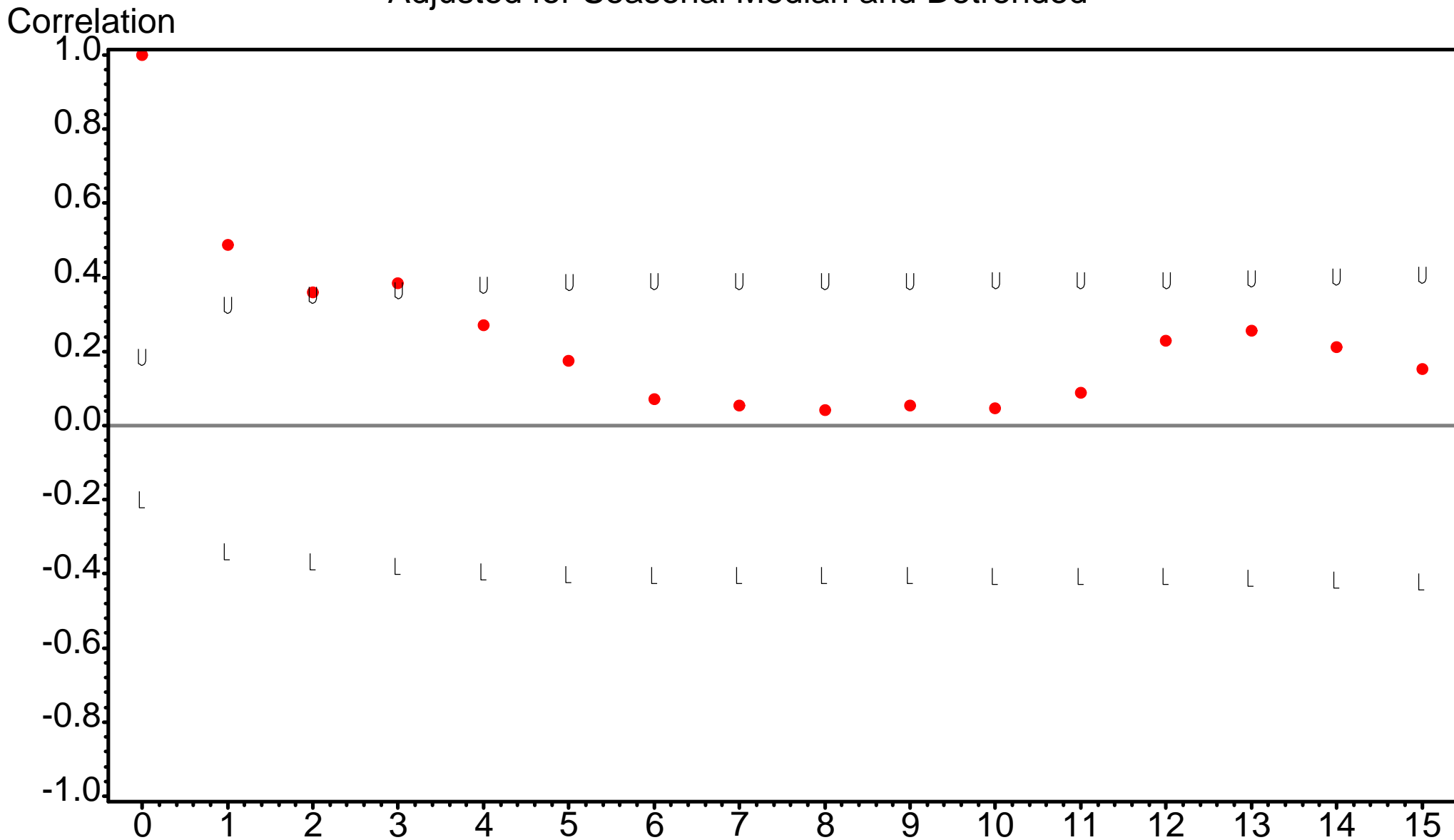
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1819
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.488	0.167	0.333	-0.333
2	0.359	0.179	0.359	-0.359
3	0.385	0.186	0.372	-0.372
4	0.272	0.193	0.386	-0.386
5	0.176	0.197	0.393	-0.393
6	0.072	0.198	0.396	-0.396
7	0.055	0.198	0.397	-0.397
8	0.041	0.199	0.397	-0.397
9	0.053	0.199	0.397	-0.397
10	0.048	0.199	0.398	-0.398
11	0.089	0.199	0.398	-0.398
12	0.229	0.199	0.398	-0.398
13	0.255	0.202	0.403	-0.403
14	0.212	0.205	0.409	-0.409
15	0.153	0.207	0.413	-0.413

Tidal Caloosahatchee Trends Appendix - Display 1820

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



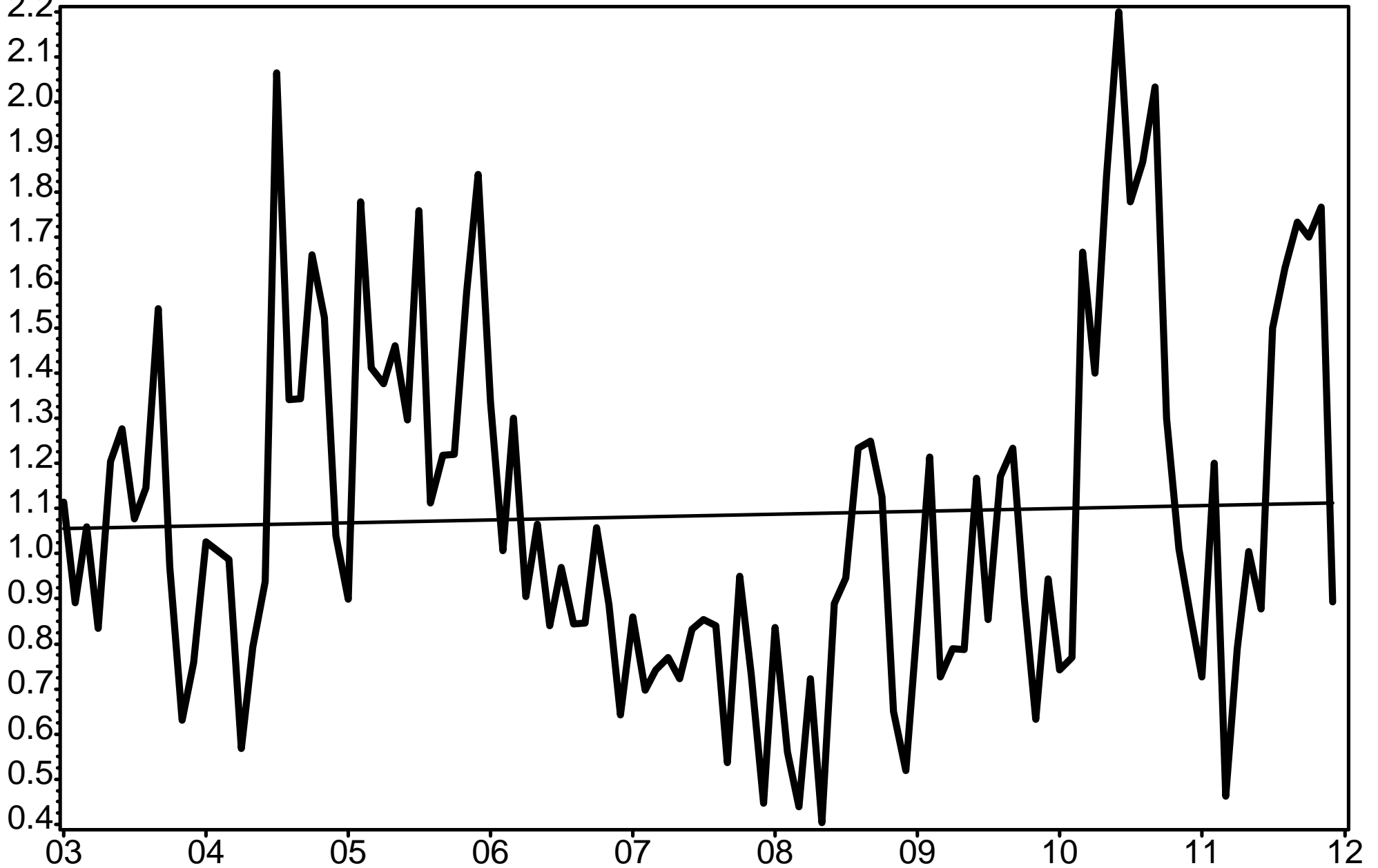
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1821

Monthly Data Time Series
for Surface Total Nitrogen in Tidal Caloosahatchee
Not Adjusted for Seasonal Medians

TN_mgl
(mg/l)



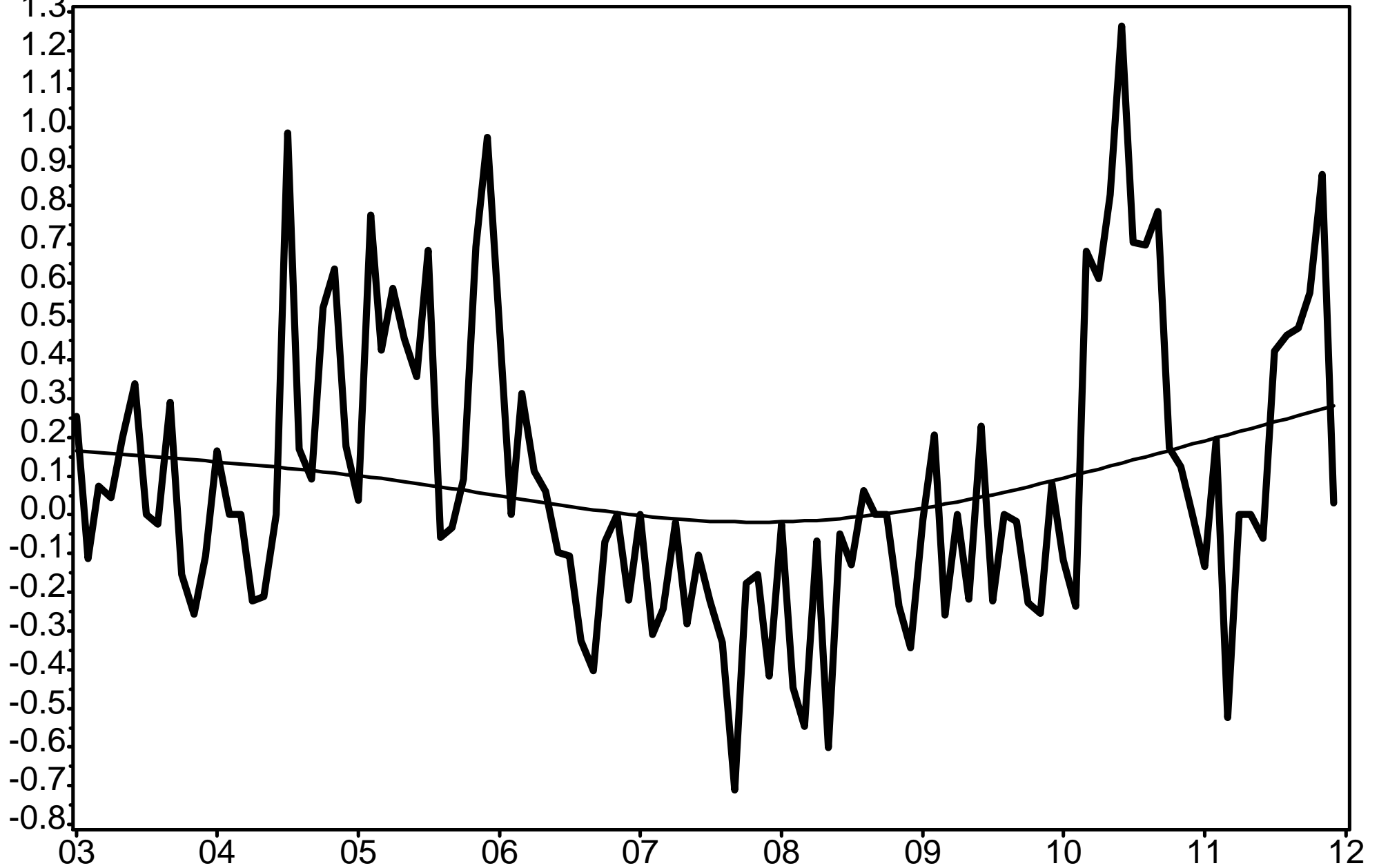
Tidal Caloosahatchee Trends Appendix - Display 1822

Monthly Data Time Series

for Surface Total Nitrogen in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

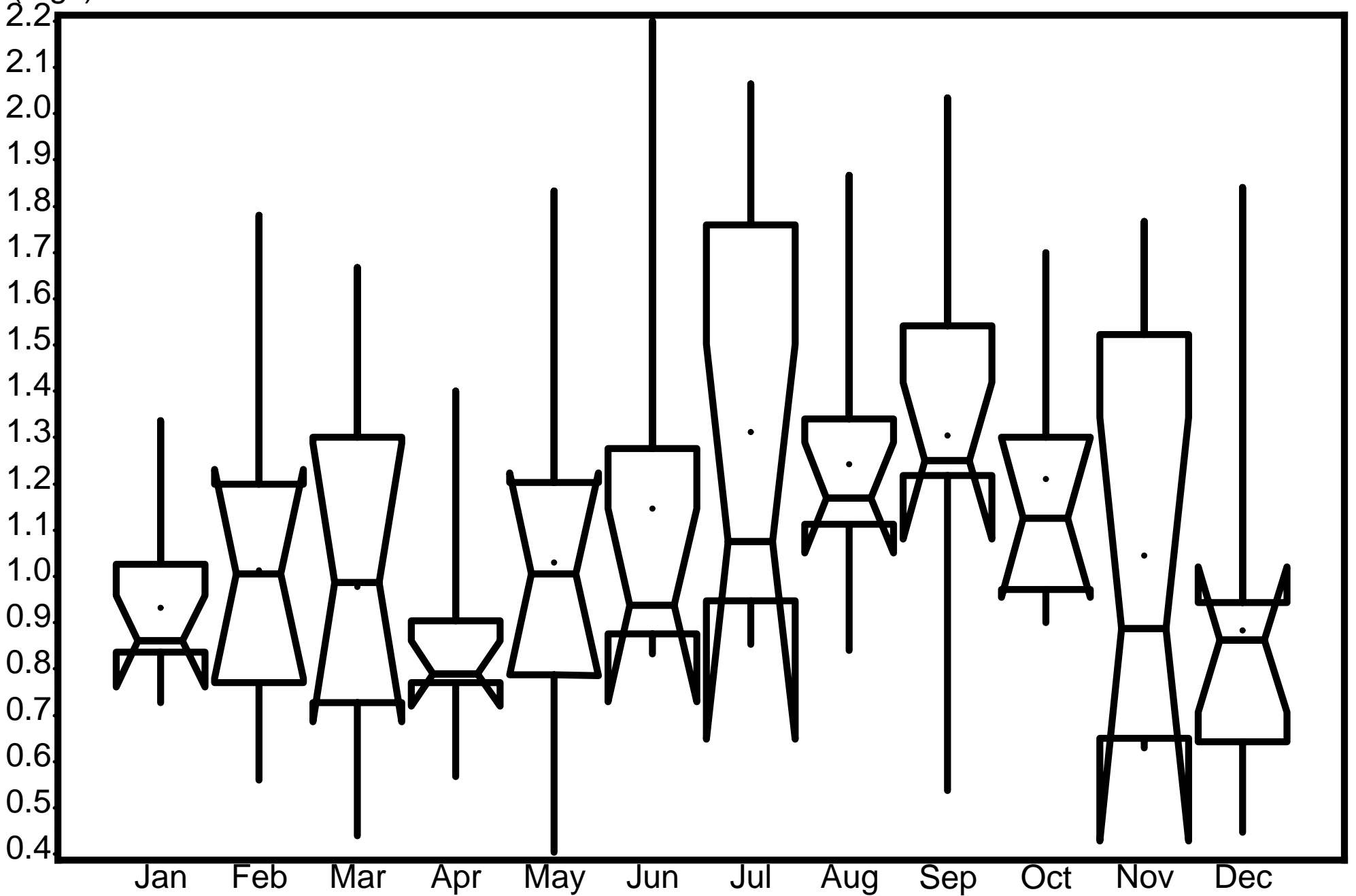


Tidal Caloosahatchee Trends Appendix - Display 1823

Seasonal Univariate Statistics

for Surface Total Nitrogen in Tidal Caloosahatchee

TN_mgl
(mg/l)



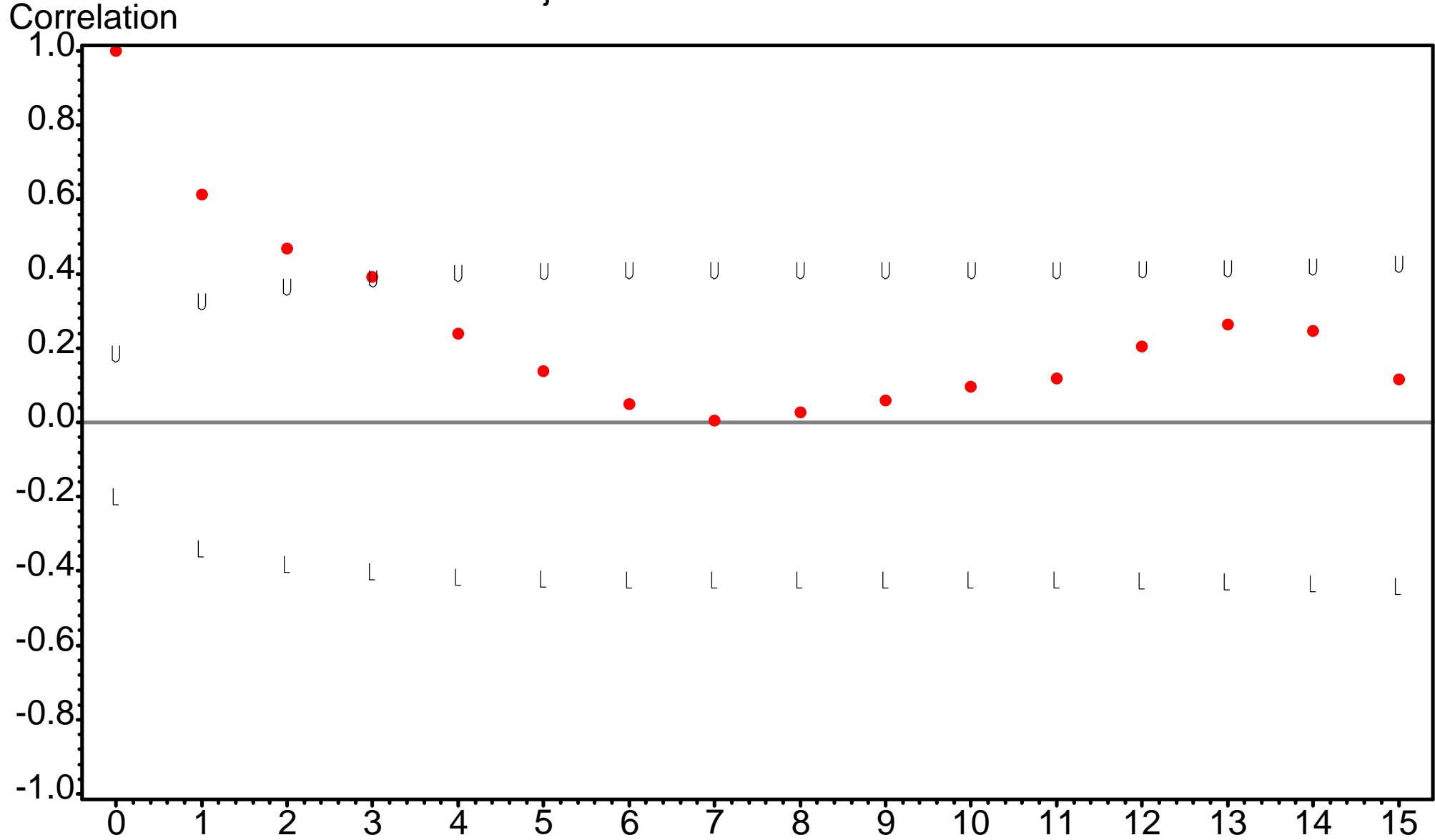
Tidal Caloosahatchee Trends Appendix - Display 1824
Autocorrelation Statistics for Surface Total Nitrogen in Tidal Caloosahatchee

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.614	0.167	0.333	-0.333
2	0.469	0.186	0.373	-0.373
3	0.391	0.197	0.394	-0.394
4	0.239	0.204	0.408	-0.408
5	0.138	0.207	0.413	-0.413
6	0.050	0.208	0.415	-0.415
7	0.006	0.208	0.415	-0.415
8	0.026	0.208	0.415	-0.415
9	0.058	0.208	0.415	-0.415
10	0.096	0.208	0.416	-0.416
11	0.117	0.208	0.417	-0.417
12	0.205	0.209	0.418	-0.418
13	0.263	0.211	0.421	-0.421
14	0.246	0.214	0.427	-0.427
15	0.115	0.216	0.433	-0.433

Tidal Caloosahatchee Trends Appendix - Display 1825

Correlogram for Surface Total Nitrogen in Tidal Caloosahatchee

Unadjusted for Seasonal Median



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1826
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.034	0.608	0.608	-.008

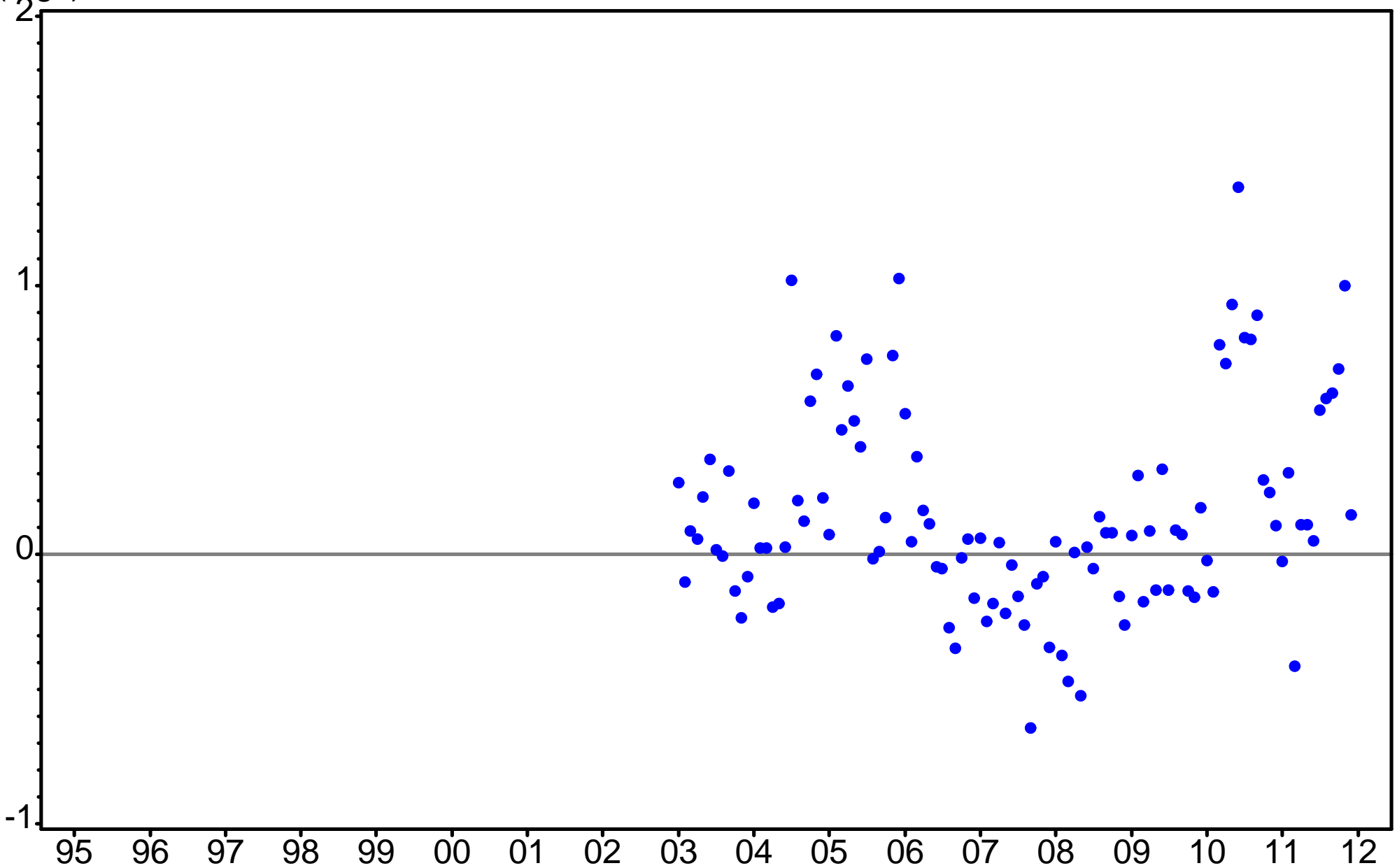
Tidal Caloosahatchee Trends Appendix - Display 1827
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.067130	0.39875	0.68359	-0.012

Tidal Caloosahatchee Trends Appendix - Display 1828

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(mg/l)



Zero Reference Line Shown

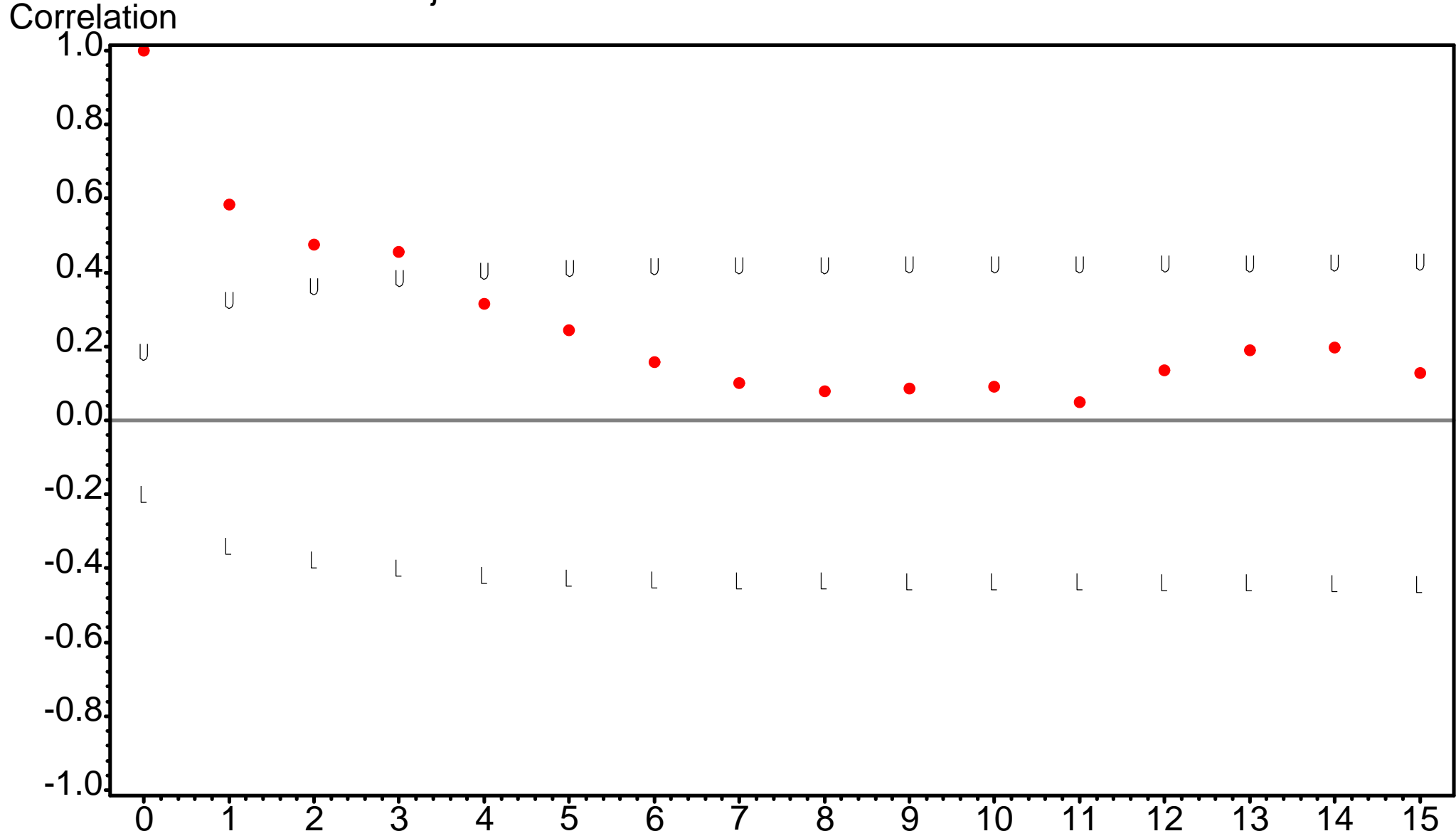
Tidal Caloosahatchee Trends Appendix - Display 1829
 Autocorrelation Statistics for Surface Total Nitrogen in Tidal Caloosahatchee
 Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.583	0.167	0.333	-0.333
2	0.475	0.185	0.369	-0.369
3	0.455	0.196	0.391	-0.391
4	0.316	0.205	0.410	-0.410
5	0.243	0.210	0.419	-0.419
6	0.157	0.212	0.424	-0.424
7	0.102	0.213	0.427	-0.427
8	0.079	0.214	0.427	-0.427
9	0.087	0.214	0.428	-0.428
10	0.092	0.214	0.429	-0.429
11	0.049	0.215	0.429	-0.429
12	0.136	0.215	0.430	-0.430
13	0.189	0.216	0.431	-0.431
14	0.197	0.217	0.434	-0.434
15	0.127	0.219	0.437	-0.437

Tidal Caloosahatchee Trends Appendix - Display 1830

Correlogram for Surface Total Nitrogen in Tidal Caloosahatchee

Adjusted for Seasonal Median and Detrended



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

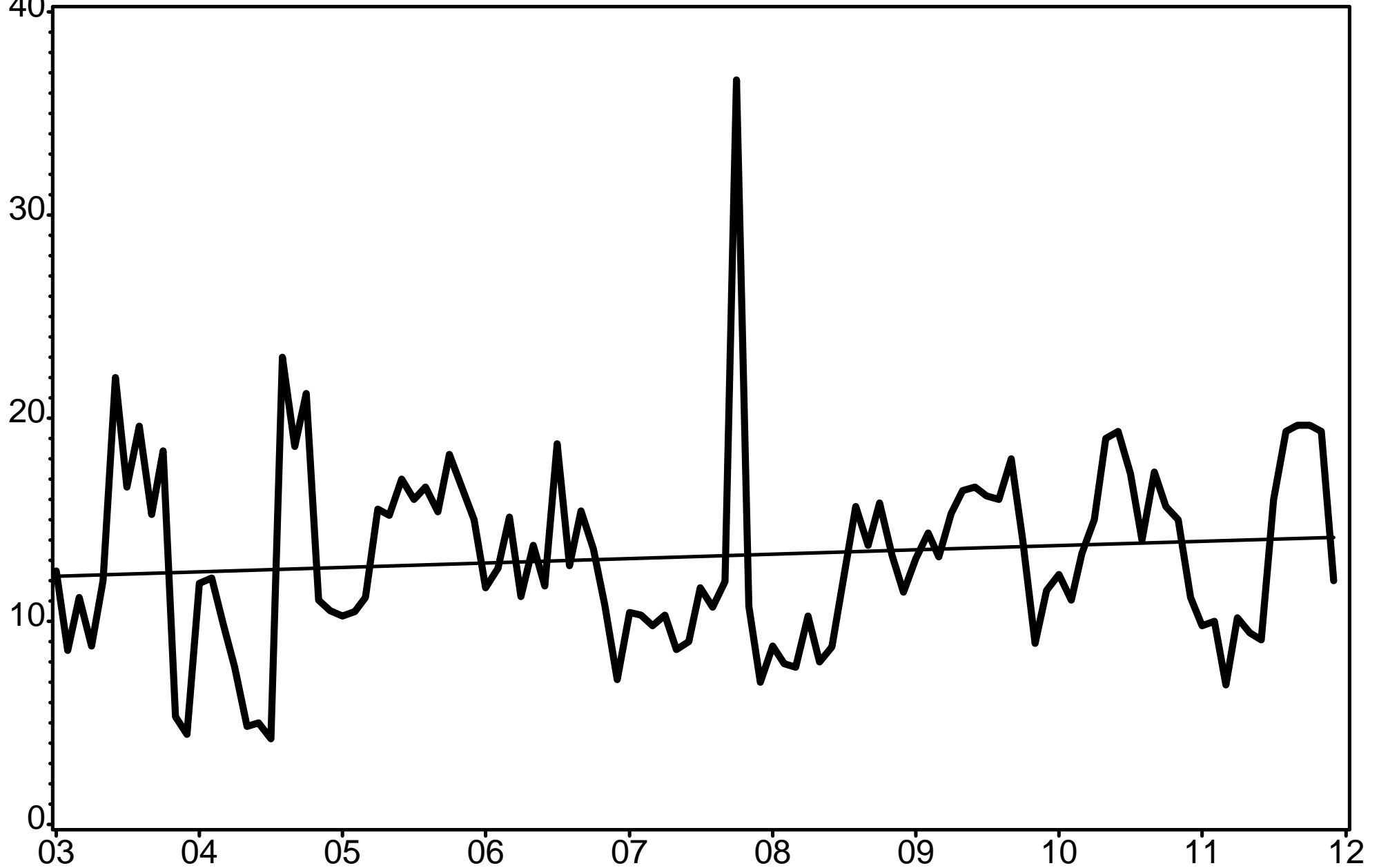
Tidal Caloosahatchee Trends Appendix - Display 1831

Monthly Data Time Series

for Surface Total Organic Carbon in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



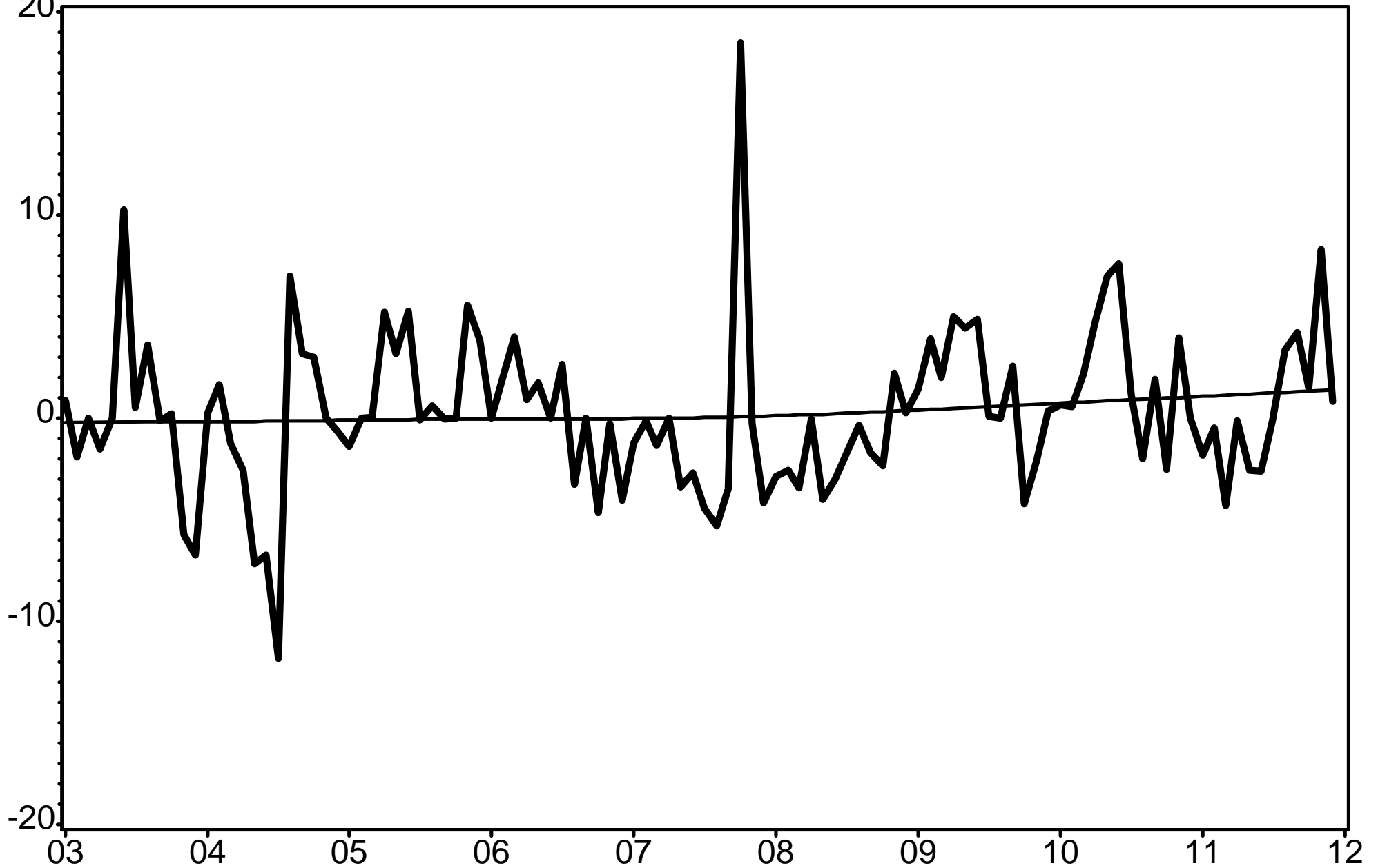
Tidal Caloosahatchee Trends Appendix - Display 1832

Monthly Data Time Series

for Surface Total Organic Carbon in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

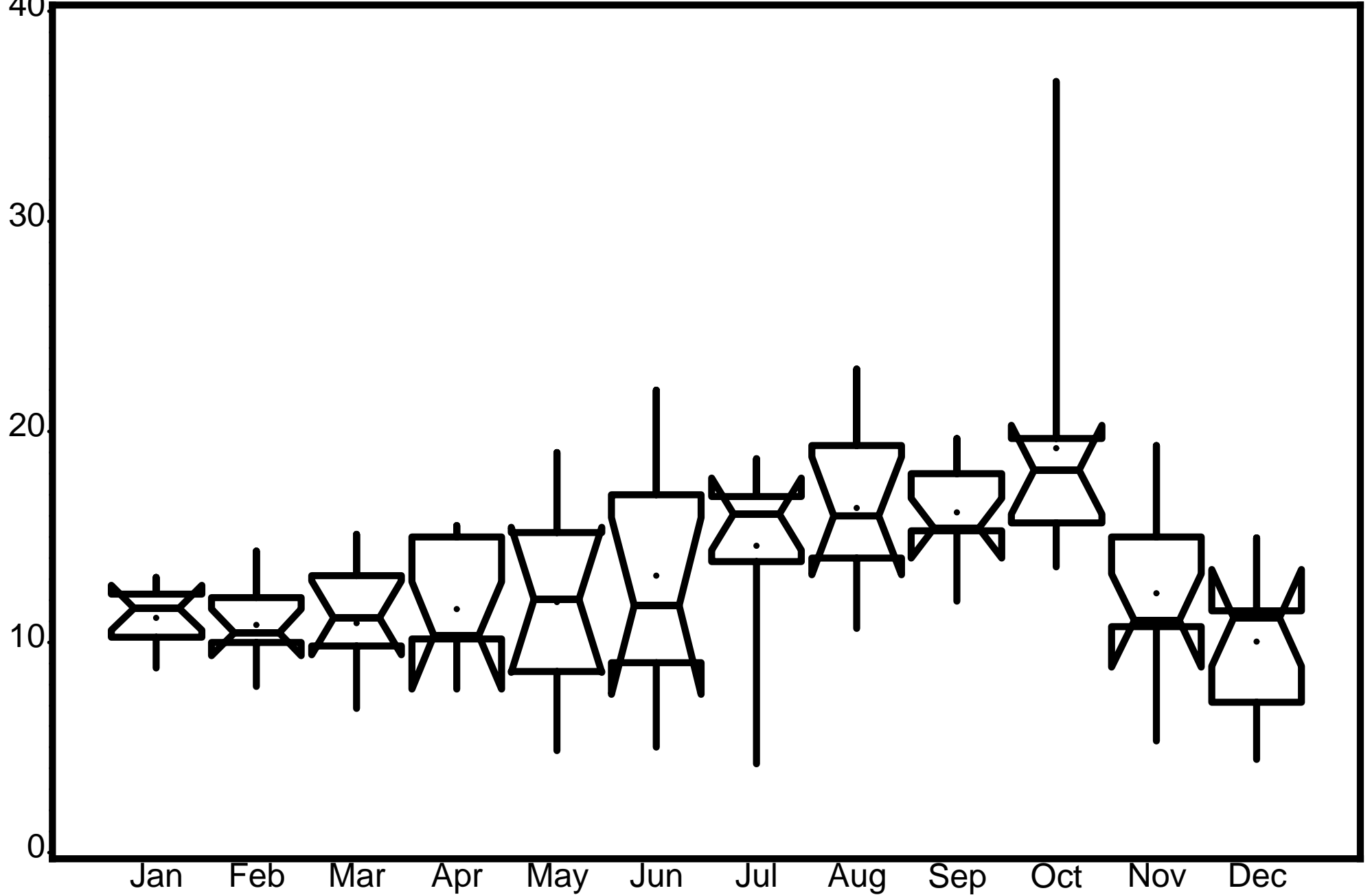


Tidal Caloosahatchee Trends Appendix - Display 1833

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Tidal Caloosahatchee

TOC_mgl
(mg/l)
40



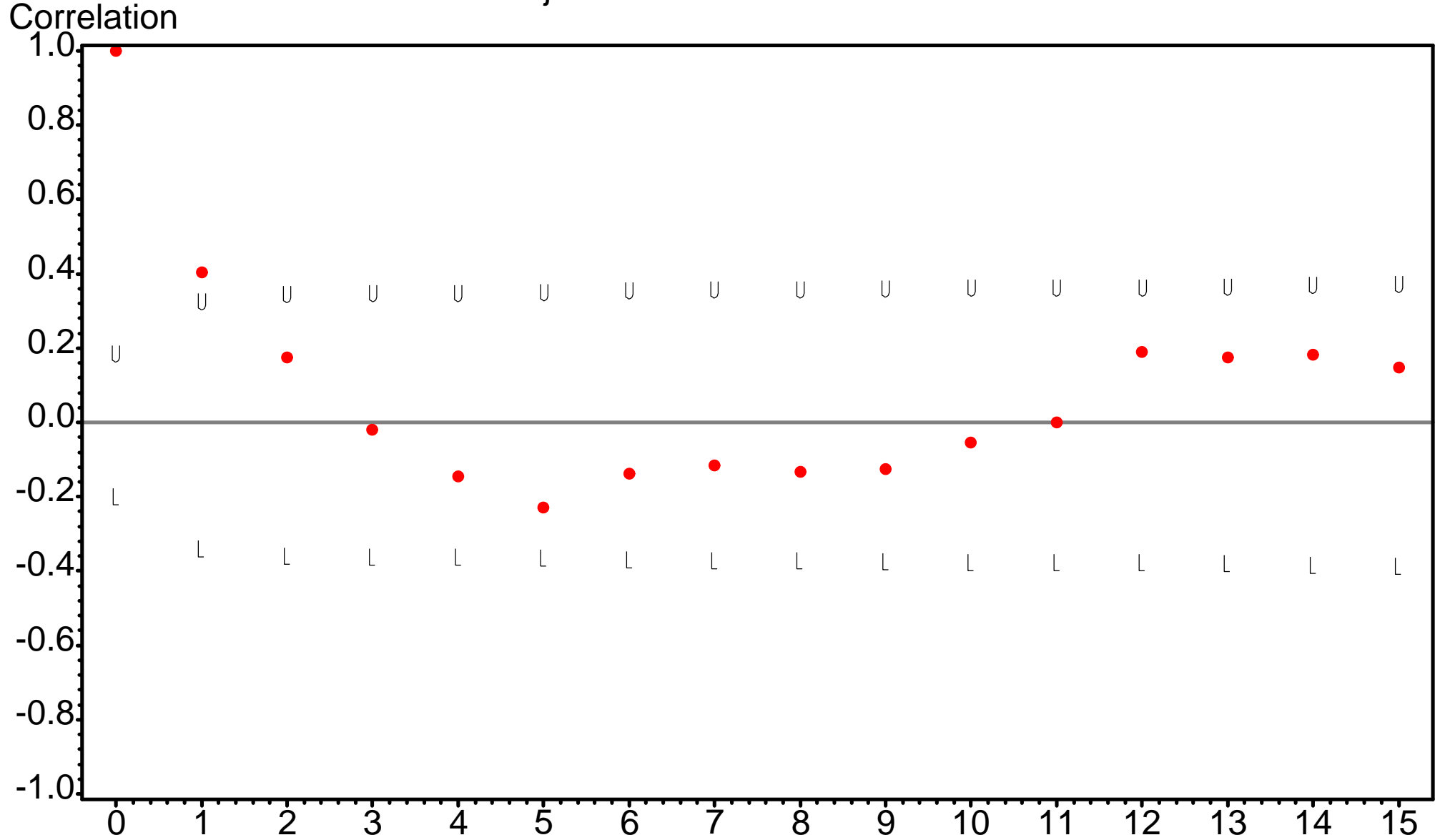
Tidal Caloosahatchee Trends Appendix - Display 1834
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Caloosahatchee

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.404	0.167	0.333	-0.333
2	0.176	0.175	0.351	-0.351
3	-0.020	0.177	0.354	-0.354
4	-0.144	0.177	0.354	-0.354
5	-0.229	0.178	0.356	-0.356
6	-0.139	0.181	0.362	-0.362
7	-0.116	0.182	0.364	-0.364
8	-0.134	0.183	0.365	-0.365
9	-0.126	0.183	0.367	-0.367
10	-0.053	0.184	0.369	-0.369
11	0.001	0.184	0.369	-0.369
12	0.190	0.184	0.369	-0.369
13	0.176	0.186	0.372	-0.372
14	0.182	0.188	0.376	-0.376
15	0.148	0.189	0.379	-0.379

Tidal Caloosahatchee Trends Appendix - Display 1835

Correlogram for Surface Total Organic Carbon in Tidal Caloosahatchee

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1836
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.083	0.209	0.209	0.214

Tidal Caloosahatchee Trends Appendix - Display 1837
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Caloosahatchee
Adjusted for Seasonal Medians

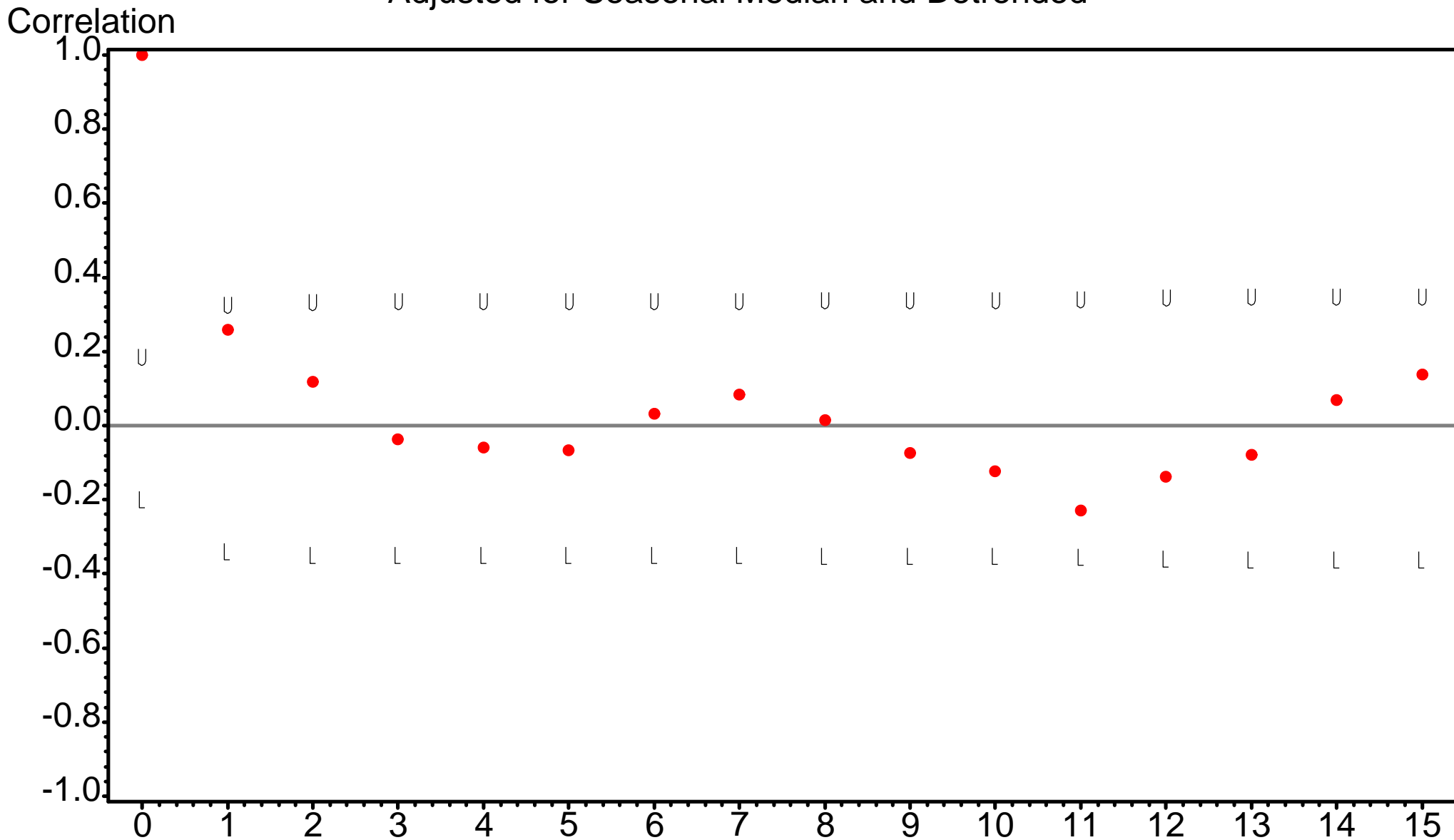
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.054245	0.50249	0.64858	0.1045

Tidal Caloosahatchee Trends Appendix - Display 1839
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.258	0.167	0.333	-0.333
2	0.119	0.170	0.341	-0.341
3	-0.036	0.171	0.342	-0.342
4	-0.059	0.171	0.342	-0.342
5	-0.066	0.171	0.343	-0.343
6	0.032	0.172	0.343	-0.343
7	0.084	0.172	0.343	-0.343
8	0.015	0.172	0.344	-0.344
9	-0.073	0.172	0.344	-0.344
10	-0.122	0.172	0.345	-0.345
11	-0.228	0.173	0.346	-0.346
12	-0.137	0.176	0.352	-0.352
13	-0.078	0.177	0.354	-0.354
14	0.068	0.177	0.354	-0.354
15	0.139	0.177	0.355	-0.355

Tidal Caloosahatchee Trends Appendix - Display 1840

Correlogram for Surface Total Organic Carbon in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

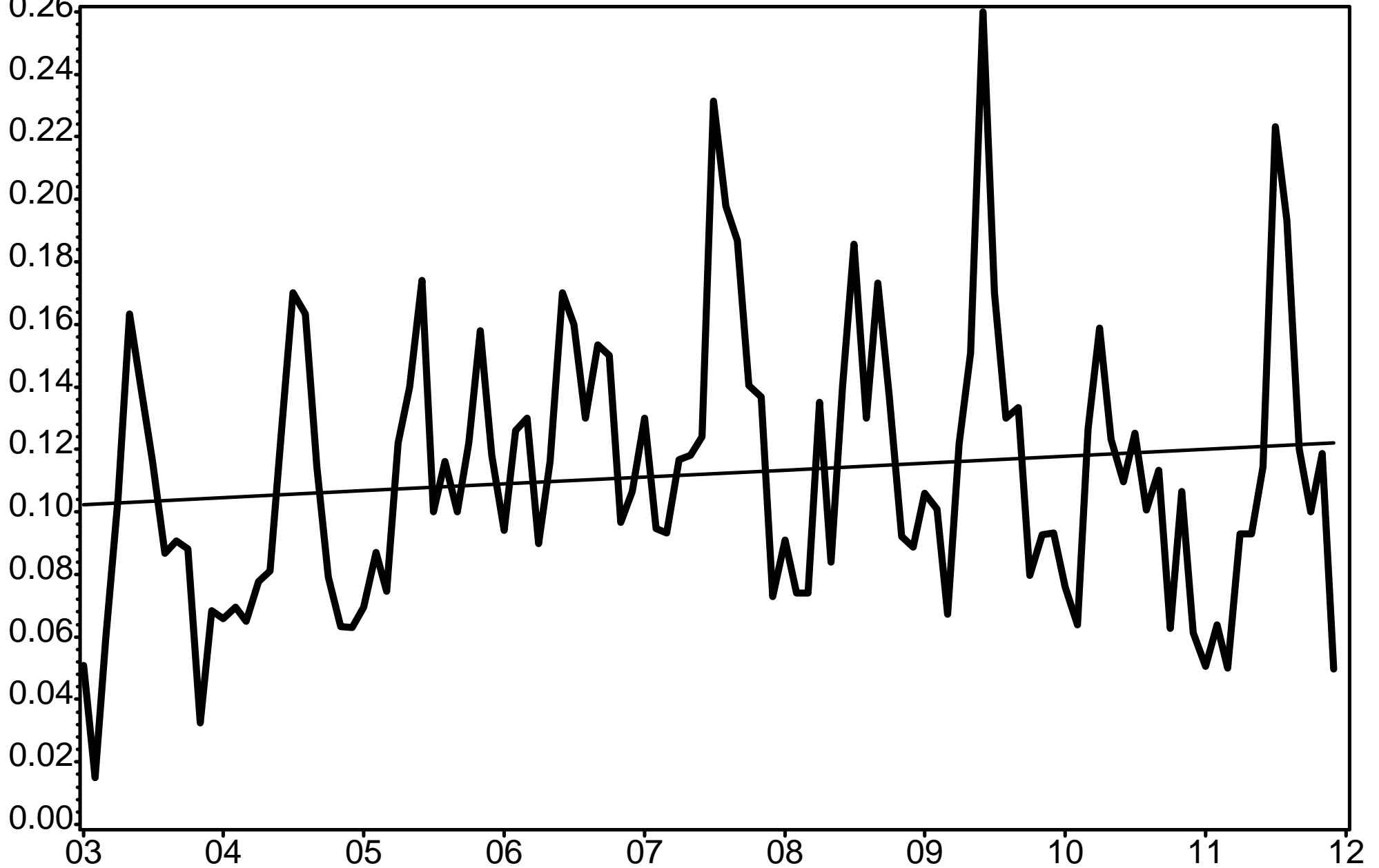
Tidal Caloosahatchee Trends Appendix - Display 1841

Monthly Data Time Series

for Surface Total Phosphorous in Tidal Caloosahatchee

Not Adjusted for Seasonal Medians

TPO4_mgl
(mg/l)



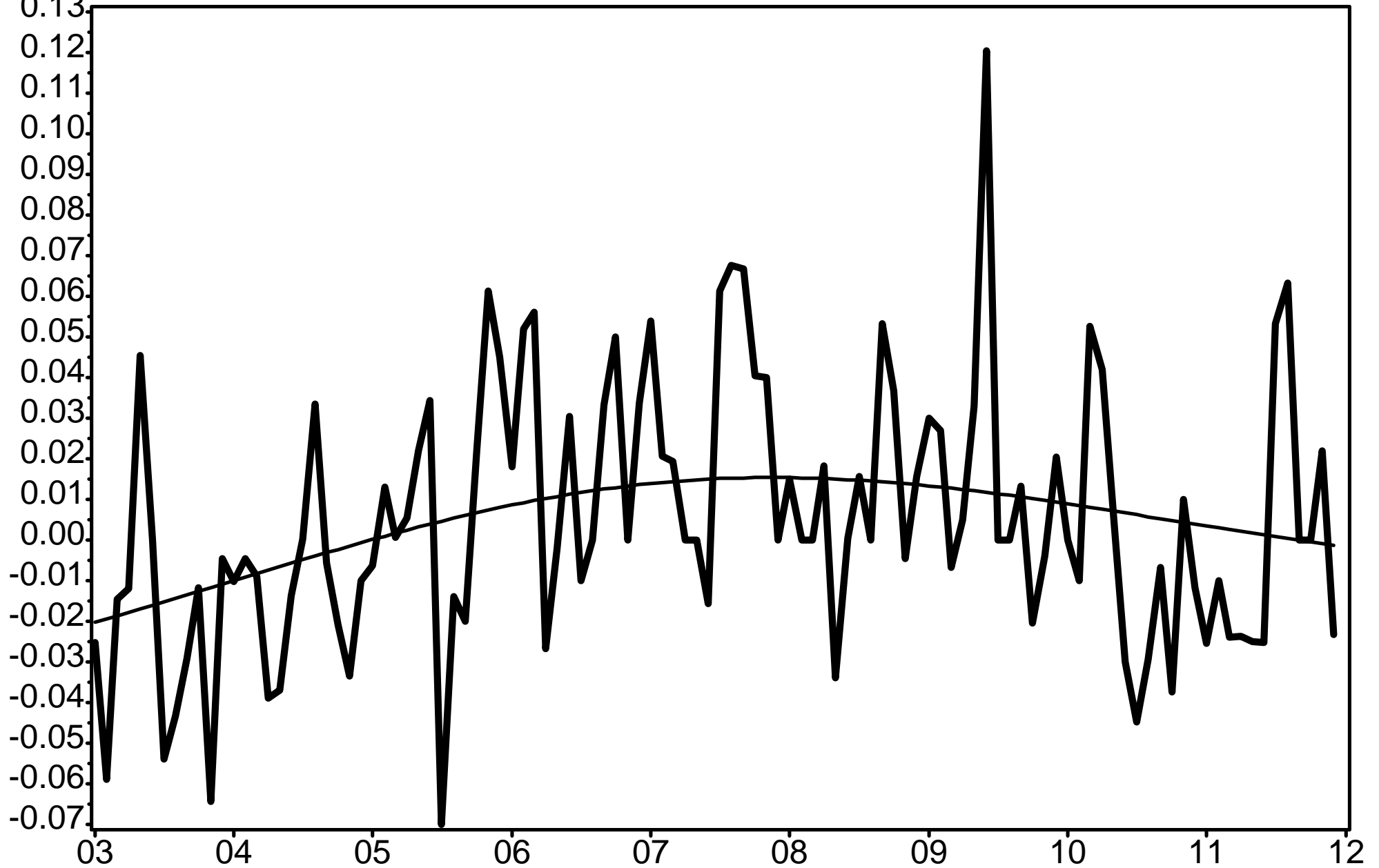
Tidal Caloosahatchee Trends Appendix - Display 1842

Monthly Data Time Series

for Surface Total Phosphorous in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TPO4_mgl
(mg/l)

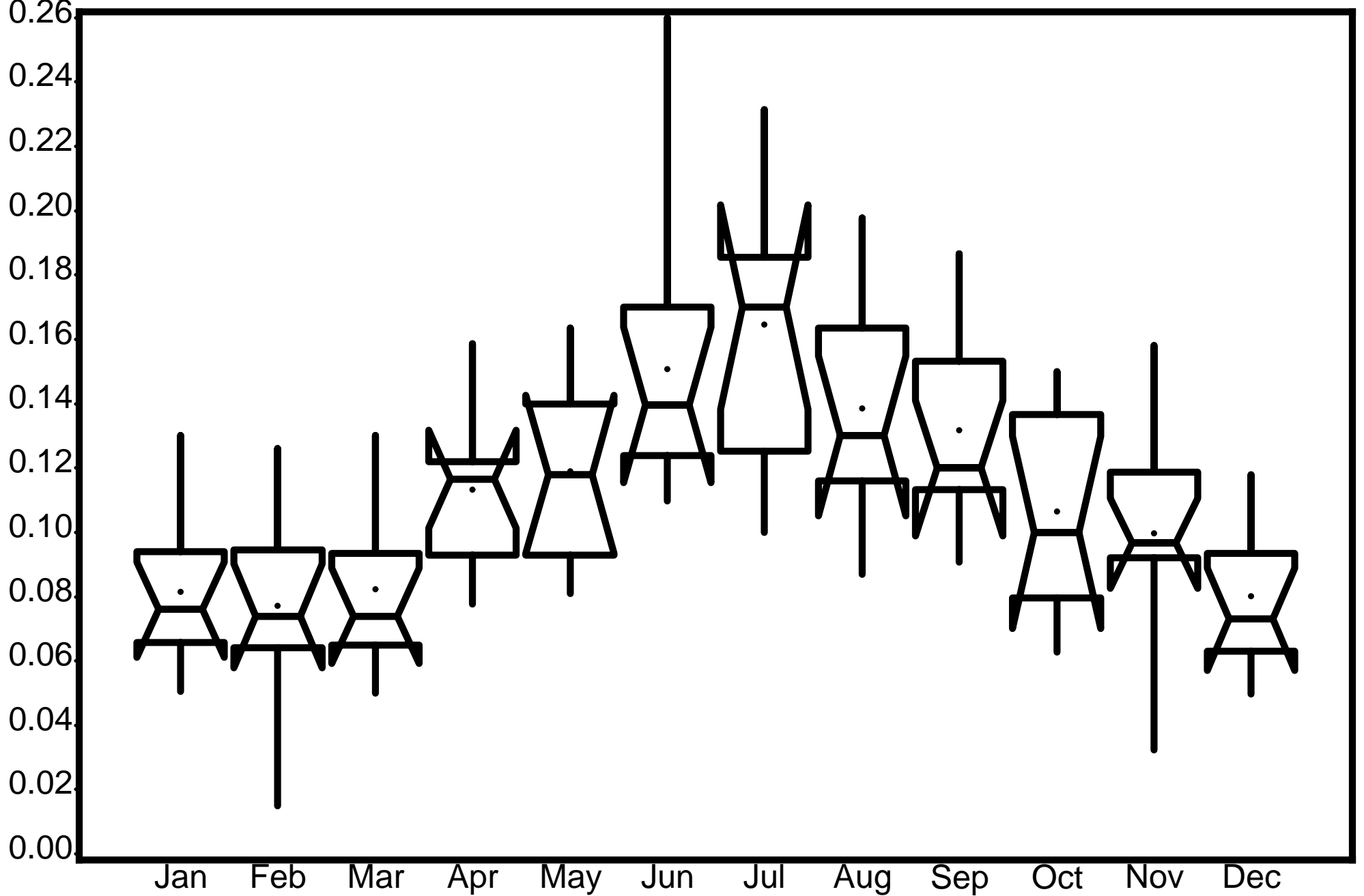


Tidal Caloosahatchee Trends Appendix - Display 1843

Seasonal Univariate Statistics

for Surface Total Phosphorous in Tidal Caloosahatchee

TPO4_mgl
(mg/l)



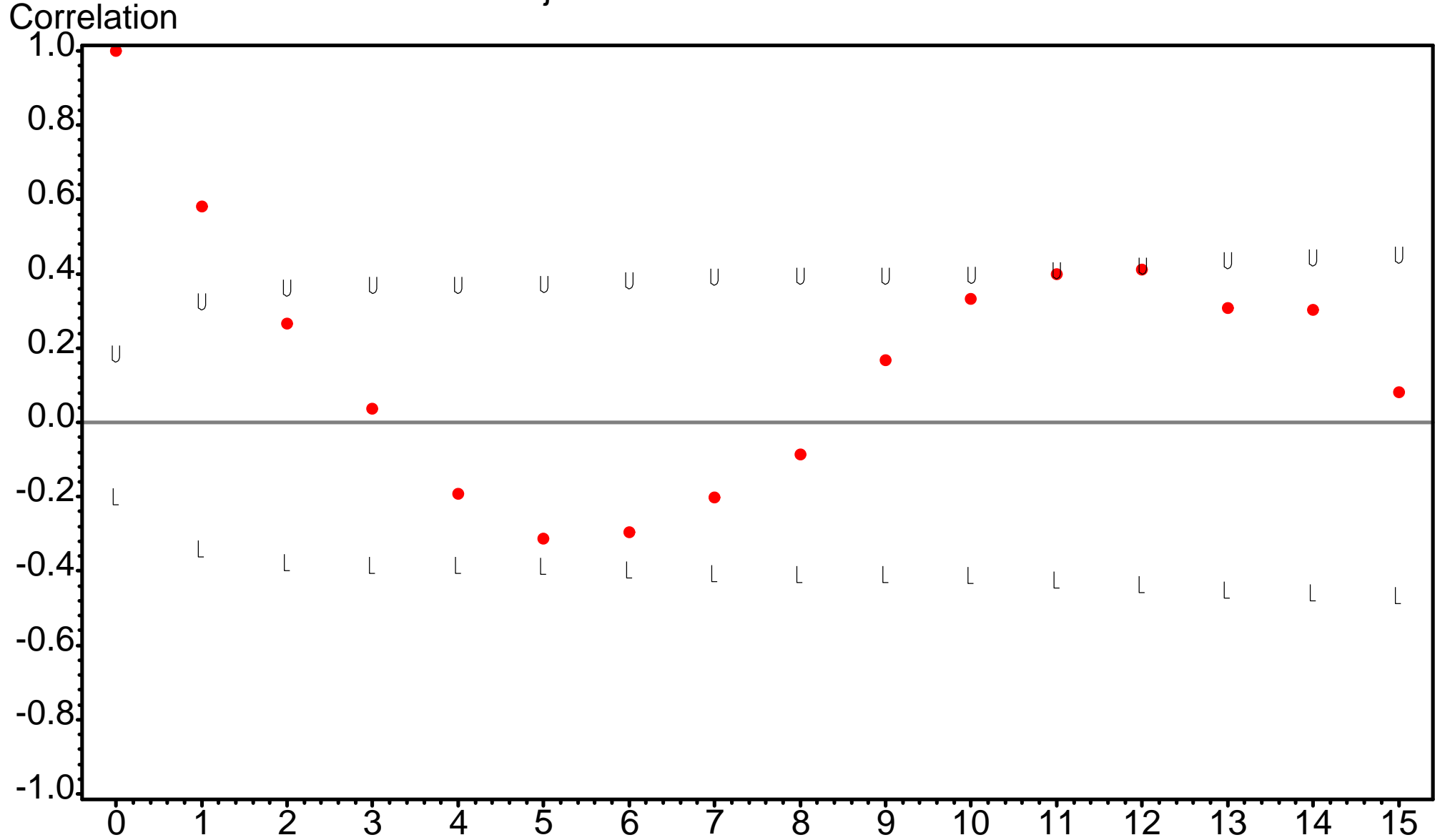
Tidal Caloosahatchee Trends Appendix - Display 1844

Autocorrelation Statistics for Surface Total Phosphorous in Tidal Caloosahatchee

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.582	0.167	0.333	-0.333
2	0.266	0.185	0.369	-0.369
3	0.037	0.188	0.376	-0.376
4	-0.193	0.188	0.376	-0.376
5	-0.313	0.190	0.380	-0.380
6	-0.296	0.195	0.389	-0.389
7	-0.202	0.199	0.398	-0.398
8	-0.087	0.201	0.401	-0.401
9	0.167	0.201	0.402	-0.402
10	0.332	0.202	0.405	-0.405
11	0.399	0.207	0.415	-0.415
12	0.410	0.214	0.429	-0.429
13	0.308	0.221	0.443	-0.443
14	0.302	0.225	0.451	-0.451
15	0.081	0.229	0.458	-0.458

Tidal Caloosahatchee Trends Appendix - Display 1845

Correlogram for Surface Total Phosphorous in Tidal Caloosahatchee Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1846
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.072	0.268	0.268	.002

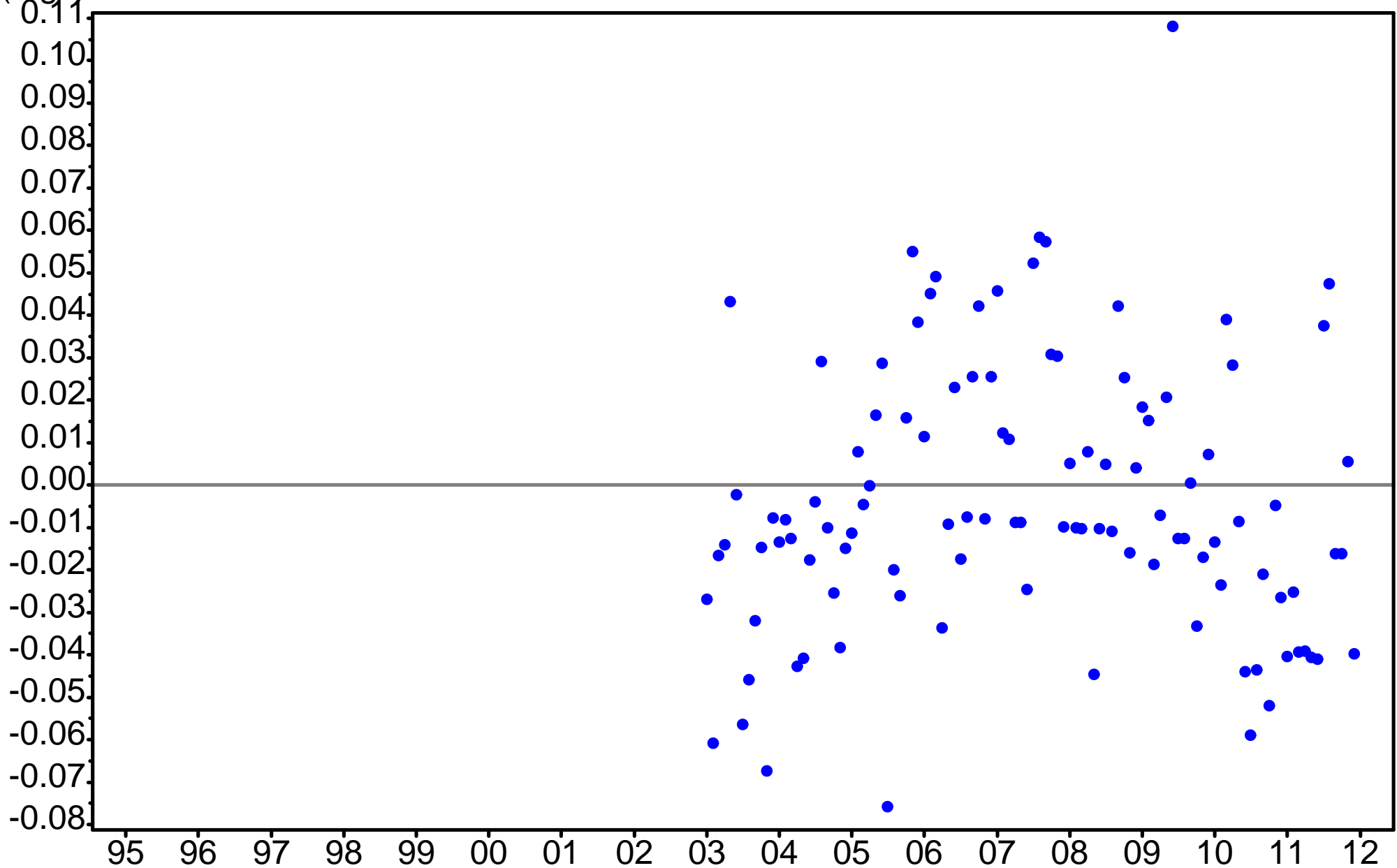
Tidal Caloosahatchee Trends Appendix - Display 1847
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.078704	0.31871	0.58481	.00166667

Tidal Caloosahatchee Trends Appendix - Display 1848

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Tidal Caloosahatchee

Adjusted
(mg/l)



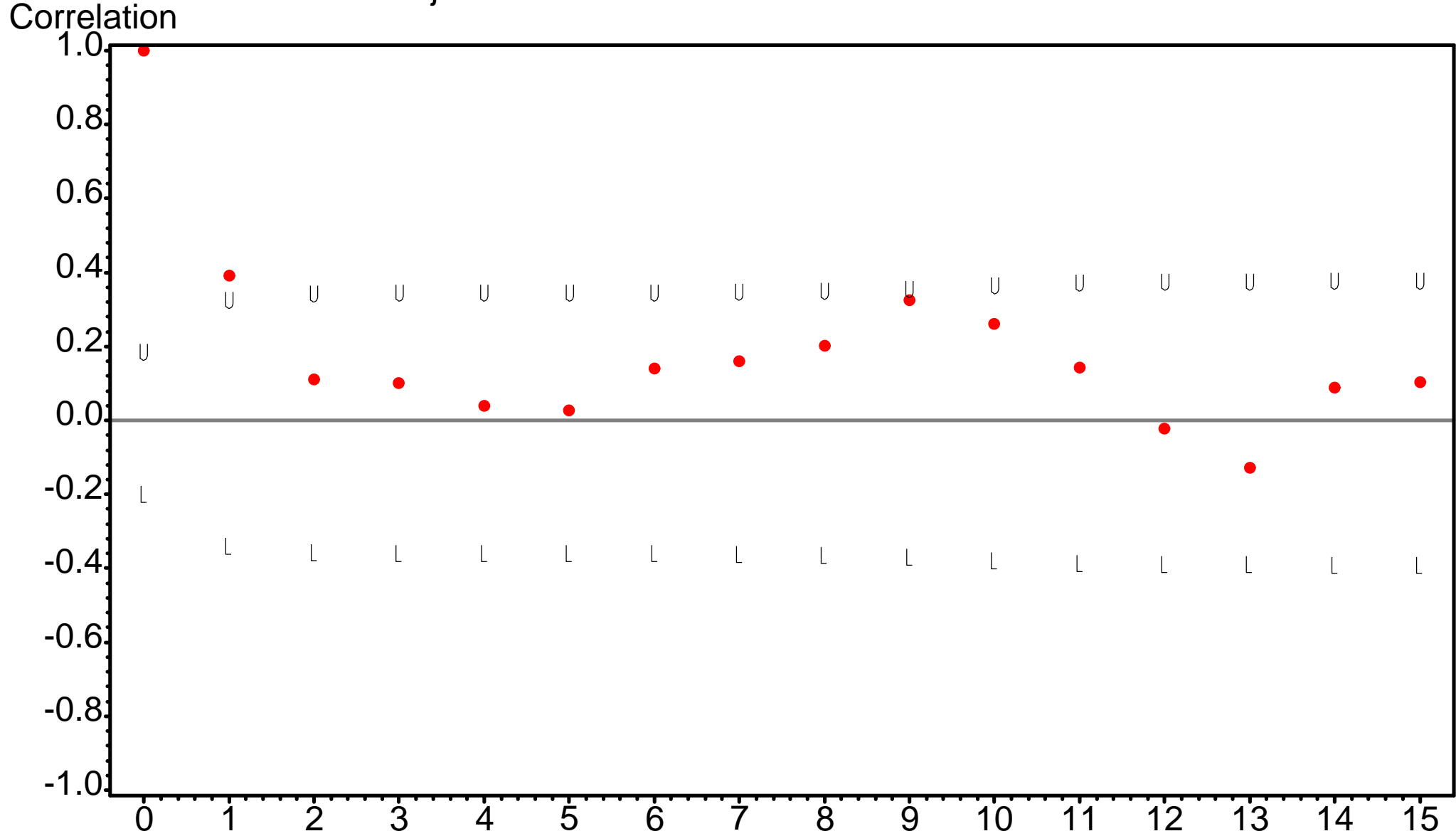
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1849
Autocorrelation Statistics for Surface Total Phosphorous in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.392	0.167	0.333	-0.333
2	0.110	0.175	0.350	-0.350
3	0.102	0.176	0.351	-0.351
4	0.040	0.176	0.352	-0.352
5	0.027	0.176	0.353	-0.353
6	0.141	0.176	0.353	-0.353
7	0.161	0.177	0.355	-0.355
8	0.203	0.179	0.357	-0.357
9	0.324	0.181	0.362	-0.362
10	0.260	0.186	0.372	-0.372
11	0.144	0.189	0.379	-0.379
12	-0.022	0.190	0.381	-0.381
13	-0.128	0.190	0.381	-0.381
14	0.089	0.191	0.383	-0.383
15	0.103	0.192	0.383	-0.383

Tidal Caloosahatchee Trends Appendix - Display 1850

Correlogram for Surface Total Phosphorous in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

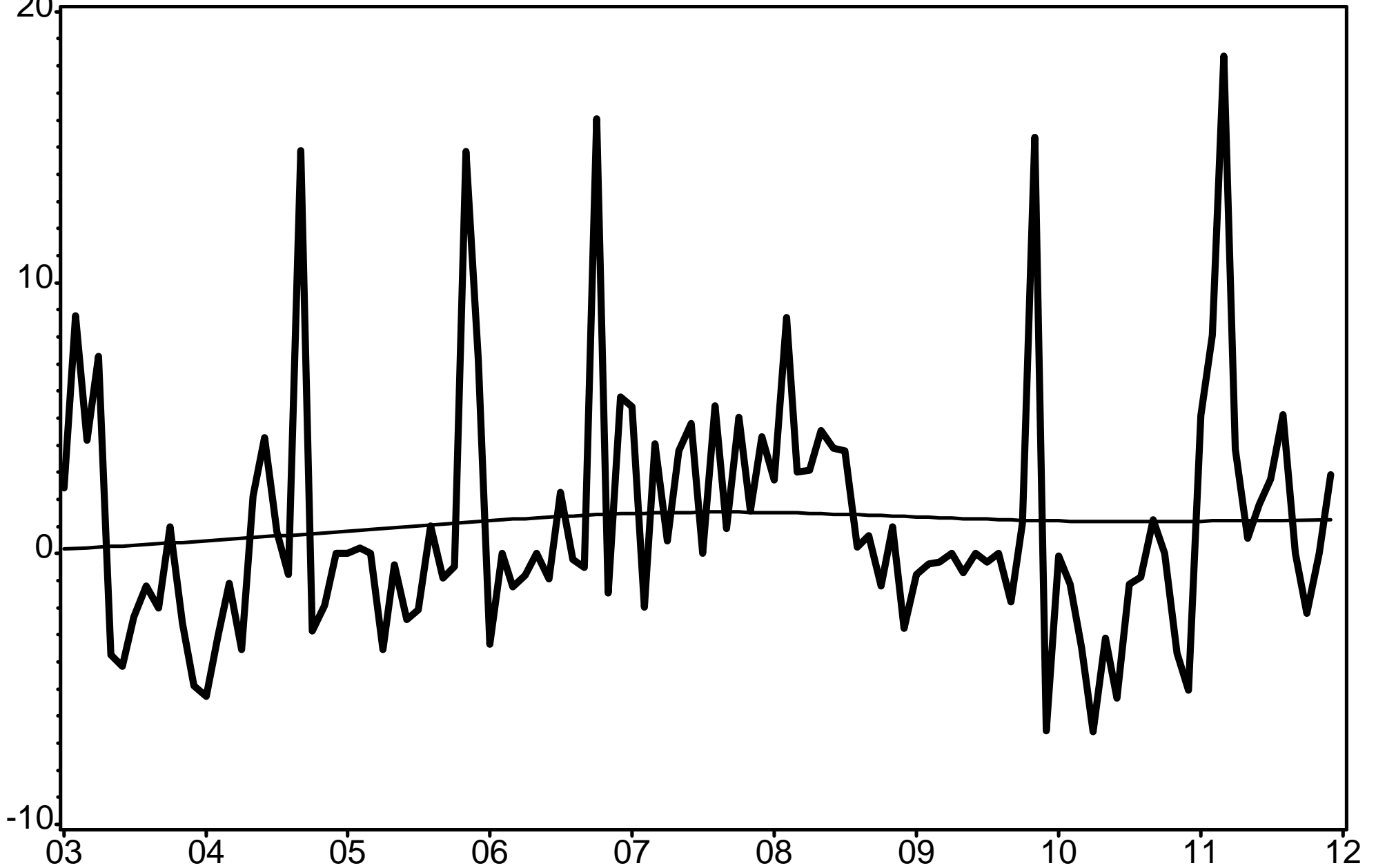
Tidal Caloosahatchee Trends Appendix - Display 1852

Monthly Data Time Series

for Surface Total Suspended Solids in Tidal Caloosahatchee

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

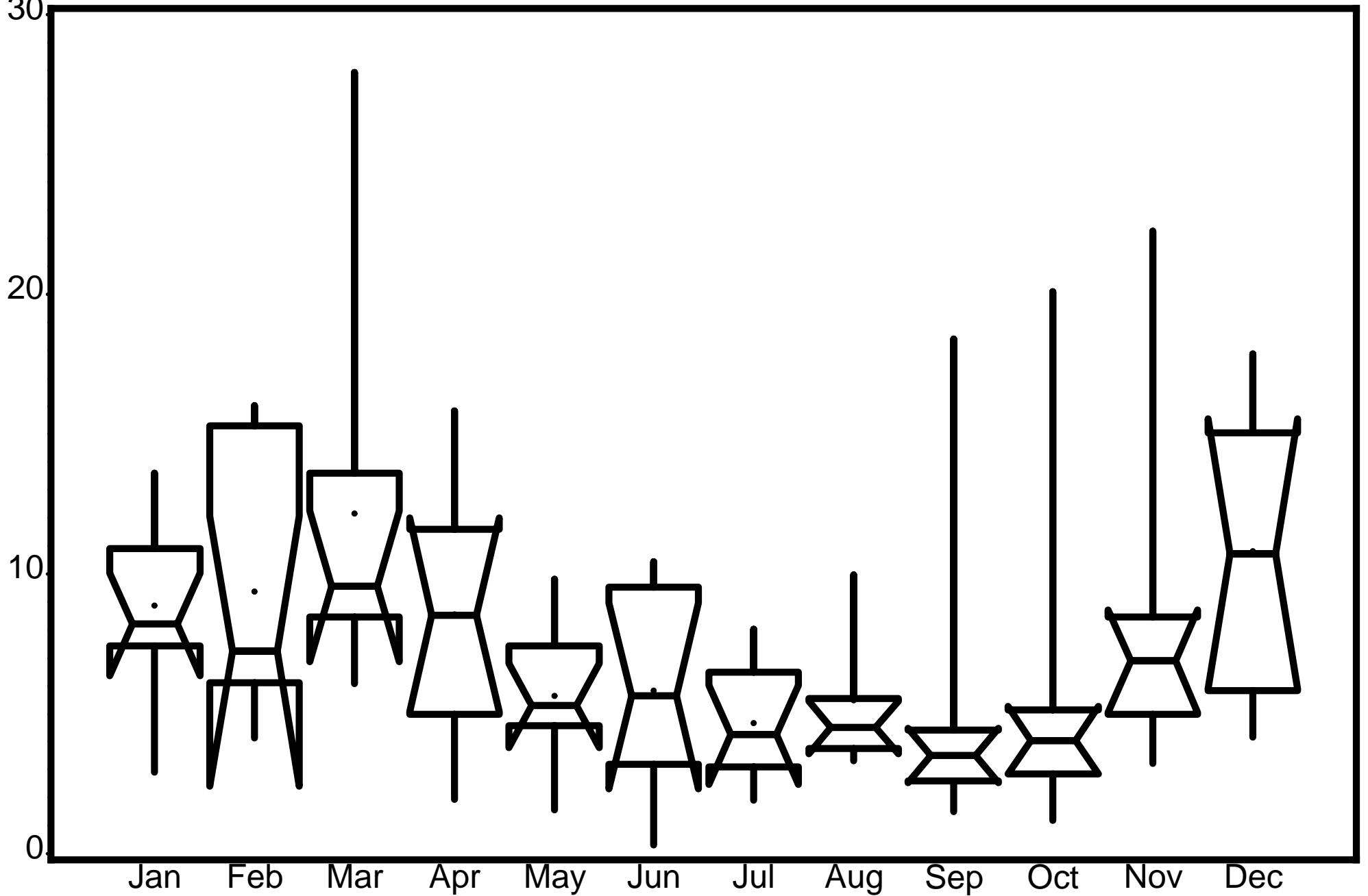


Tidal Caloosahatchee Trends Appendix - Display 1853

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Tidal Caloosahatchee

TSS_mgl
(mg/l)

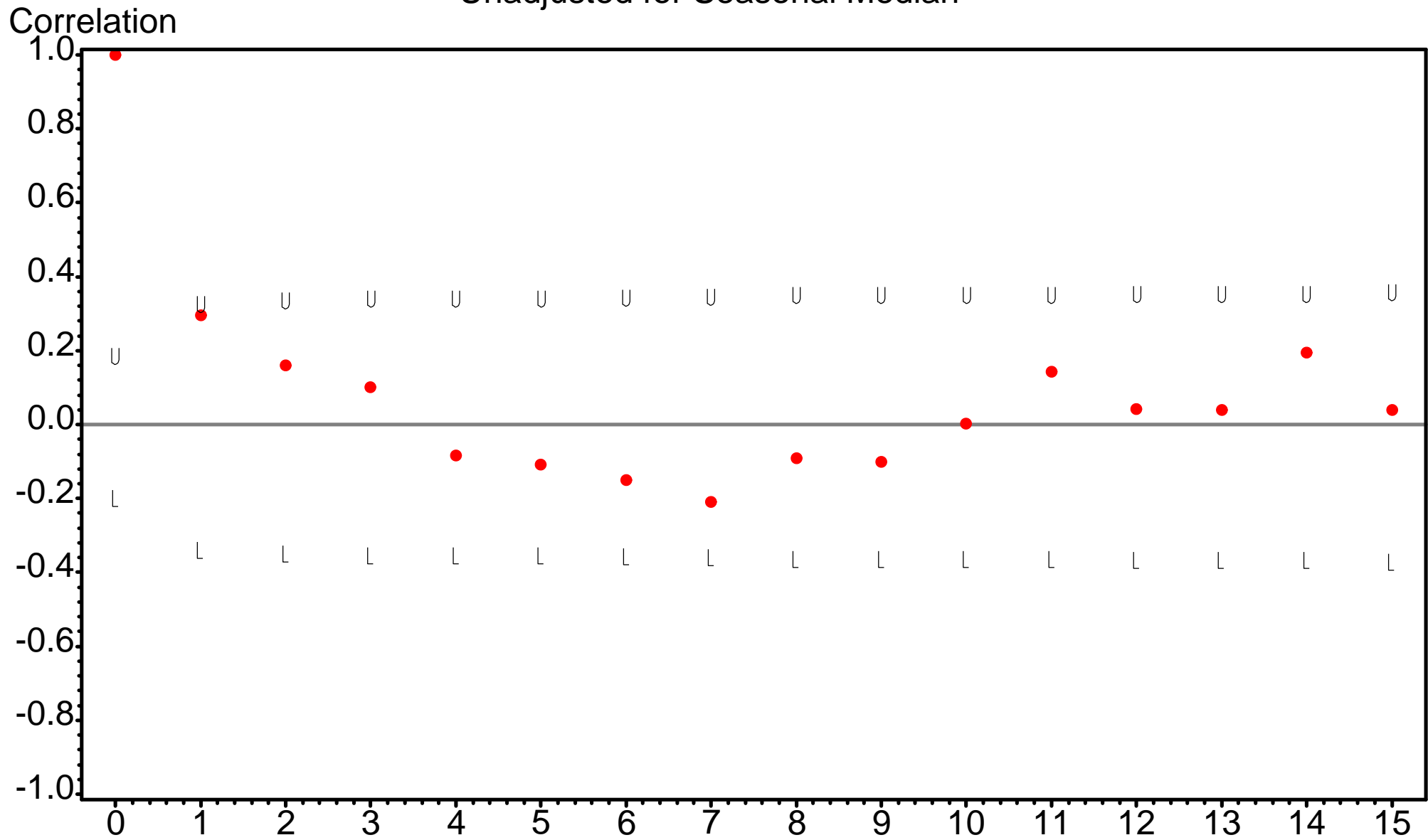


Tidal Caloosahatchee Trends Appendix - Display 1854
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Caloosahatchee

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.296	0.167	0.333	-0.333
2	0.159	0.171	0.343	-0.343
3	0.101	0.173	0.346	-0.346
4	-0.083	0.173	0.347	-0.347
5	-0.109	0.174	0.347	-0.347
6	-0.151	0.174	0.349	-0.349
7	-0.210	0.176	0.351	-0.351
8	-0.091	0.178	0.356	-0.356
9	-0.102	0.178	0.357	-0.357
10	0.003	0.179	0.358	-0.358
11	0.143	0.179	0.358	-0.358
12	0.043	0.180	0.360	-0.360
13	0.039	0.180	0.360	-0.360
14	0.195	0.180	0.360	-0.360
15	0.039	0.182	0.364	-0.364

Tidal Caloosahatchee Trends Appendix - Display 1855

Correlogram for Surface Total Suspended Solids in Tidal Caloosahatchee Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1856
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

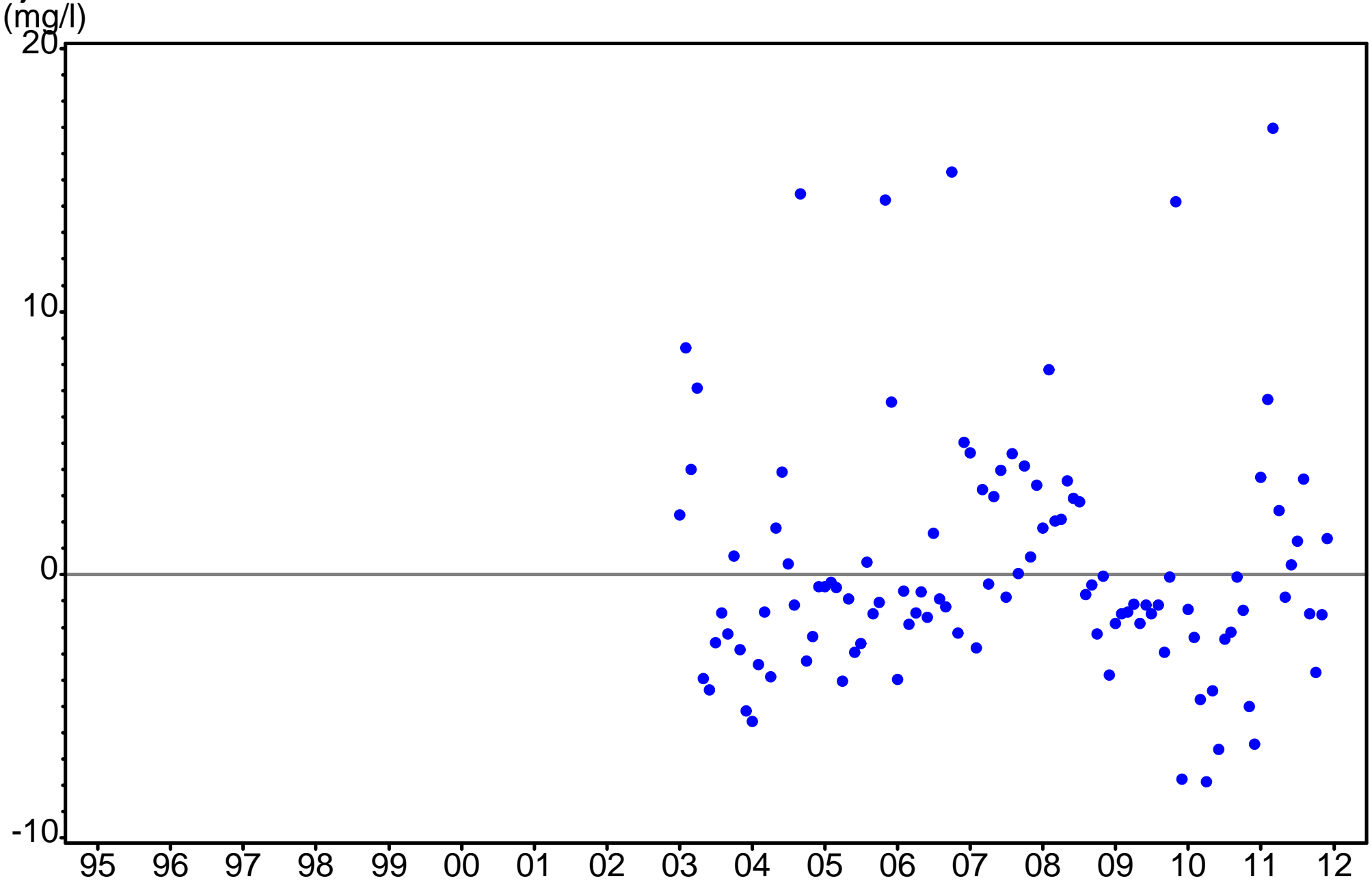
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.017	0.795	0.795	0.045

Tidal Caloosahatchee Trends Appendix - Display 1857
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.076389	0.33529	0.58209	0.15372

Tidal Caloosahatchee Trends Appendix - Display 1858

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted
Tidal Caloosahatchee



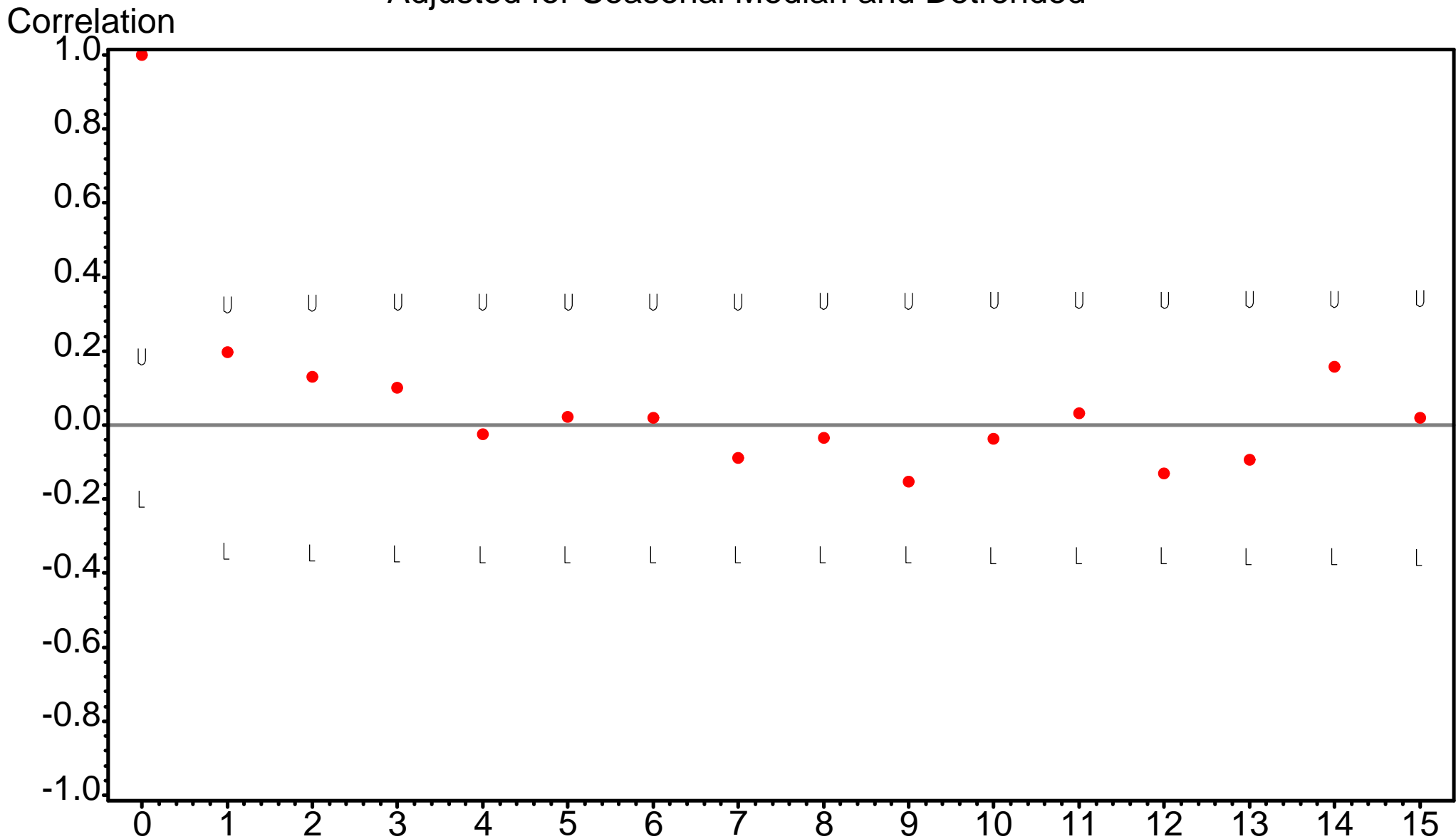
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1859
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.198	0.167	0.333	-0.333
2	0.131	0.169	0.338	-0.338
3	0.100	0.170	0.340	-0.340
4	-0.025	0.170	0.341	-0.341
5	0.021	0.170	0.341	-0.341
6	0.020	0.170	0.341	-0.341
7	-0.088	0.170	0.341	-0.341
8	-0.034	0.171	0.342	-0.342
9	-0.153	0.171	0.342	-0.342
10	-0.037	0.172	0.344	-0.344
11	0.032	0.172	0.344	-0.344
12	-0.131	0.172	0.345	-0.345
13	-0.094	0.173	0.346	-0.346
14	0.158	0.174	0.347	-0.347
15	0.019	0.175	0.350	-0.350

Tidal Caloosahatchee Trends Appendix - Display 1860

Correlogram for Surface Total Suspended Solids in Tidal Caloosahatchee Adjusted for Seasonal Median and Detrended

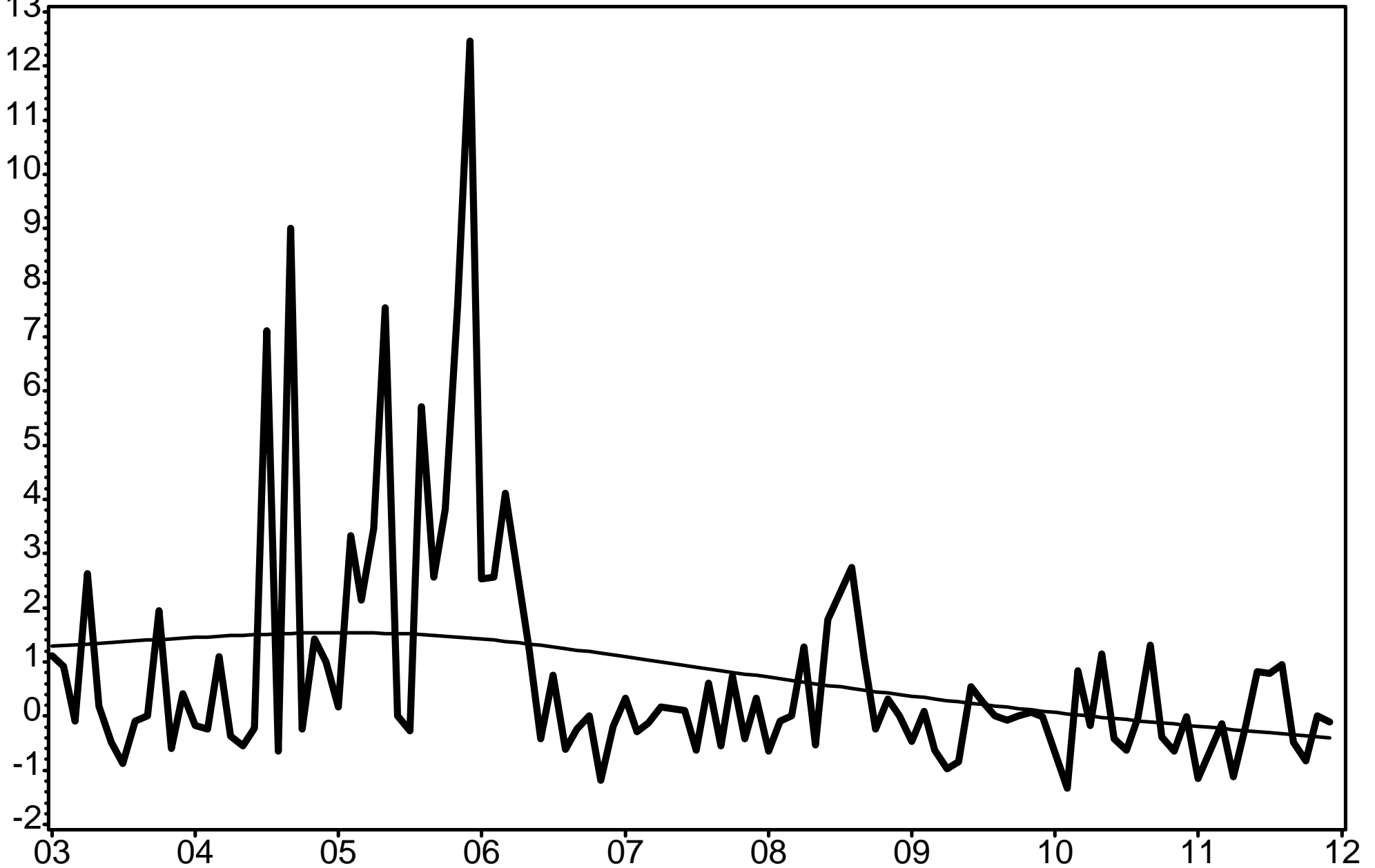


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1862

Monthly Data Time Series
for Surface Turbidity in Tidal Caloosahatchee
Adjusted for Seasonal Medians

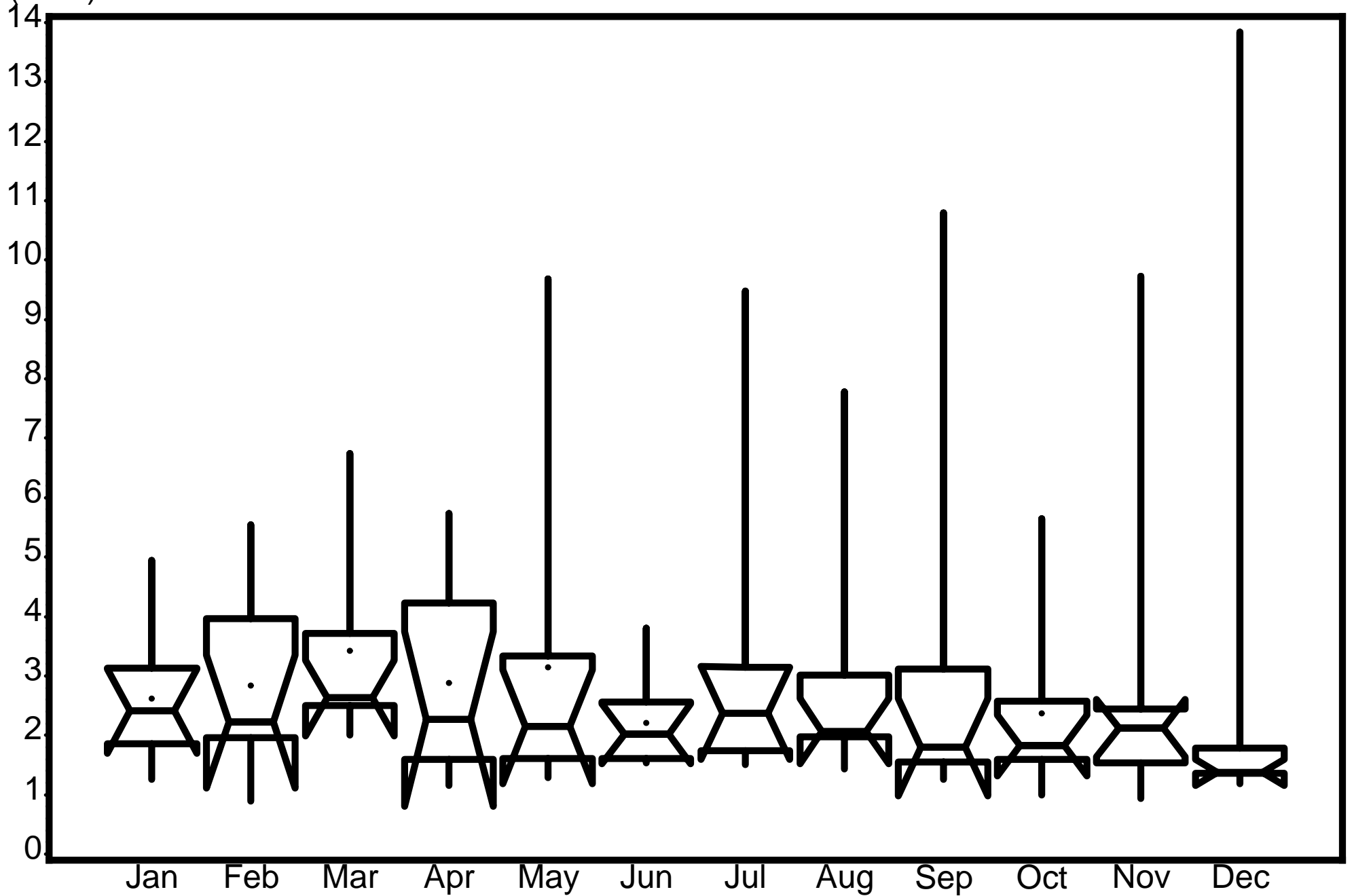
Adjusted
Turb
(NTU)



Tidal Caloosahatchee Trends Appendix - Display 1863

Seasonal Univariate Statistics for Surface Turbidity in Tidal Caloosahatchee

Turb
(NTU)

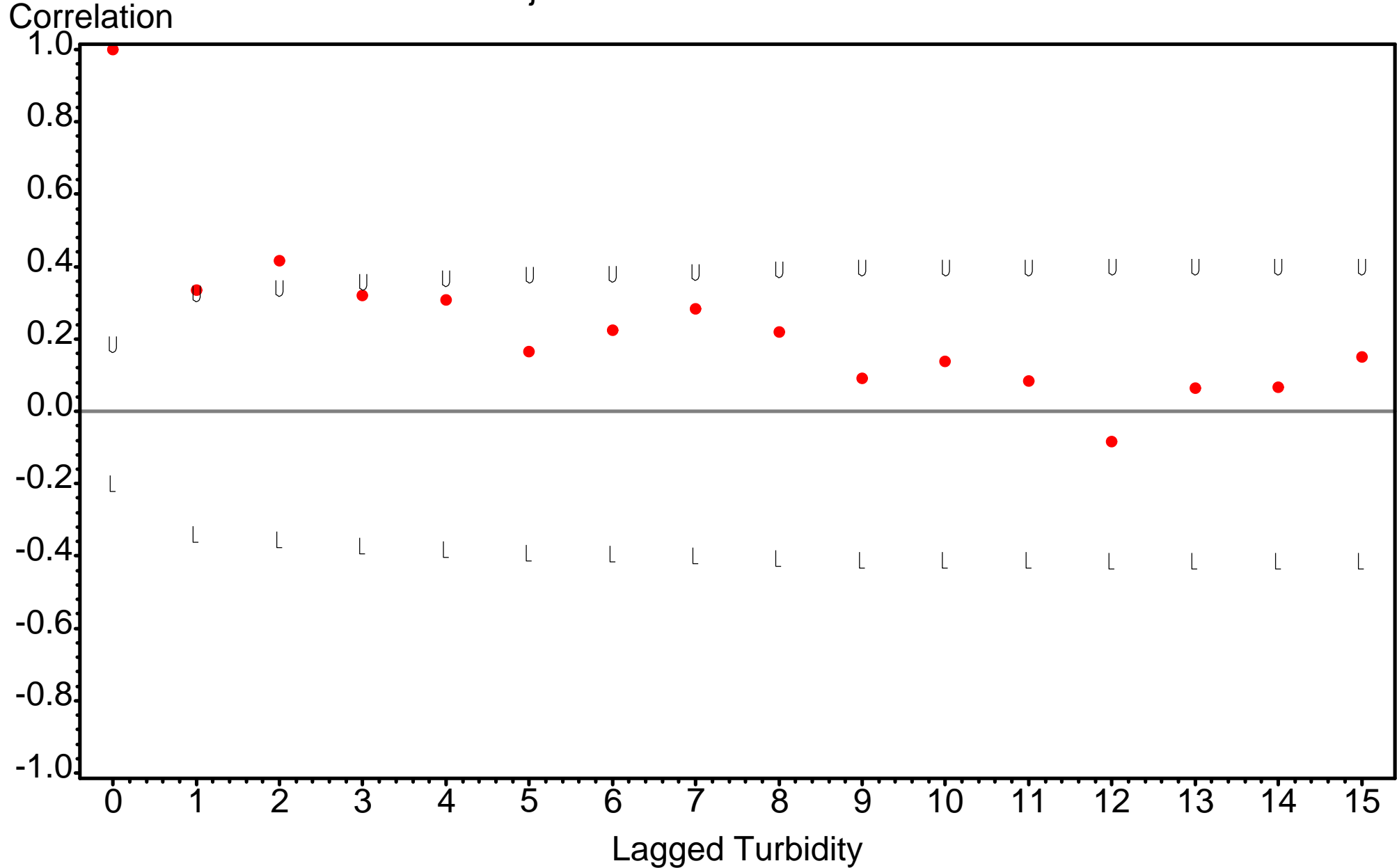


Tidal Caloosahatchee Trends Appendix - Display 1864
Autocorrelation Statistics for Surface Turbidity in Tidal Caloosahatchee

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.336	0.167	0.333	-0.333
2	0.415	0.173	0.346	-0.346
3	0.321	0.182	0.364	-0.364
4	0.309	0.187	0.374	-0.374
5	0.166	0.192	0.383	-0.383
6	0.223	0.193	0.386	-0.386
7	0.282	0.195	0.391	-0.391
8	0.218	0.199	0.398	-0.398
9	0.090	0.201	0.403	-0.403
10	0.137	0.202	0.403	-0.403
11	0.083	0.202	0.405	-0.405
12	-0.083	0.203	0.406	-0.406
13	0.063	0.203	0.406	-0.406
14	0.066	0.203	0.407	-0.407
15	0.150	0.203	0.407	-0.407

Tidal Caloosahatchee Trends Appendix - Display 1865

Correlogram for Surface Turbidity in Tidal Caloosahatchee
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Caloosahatchee Trends Appendix - Display 1866
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Caloosahatchee
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.203	.002	.002	-0.113

Tidal Caloosahatchee Trends Appendix - Display 1867
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Caloosahatchee
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19898	0.013456	0.10909	-0.094

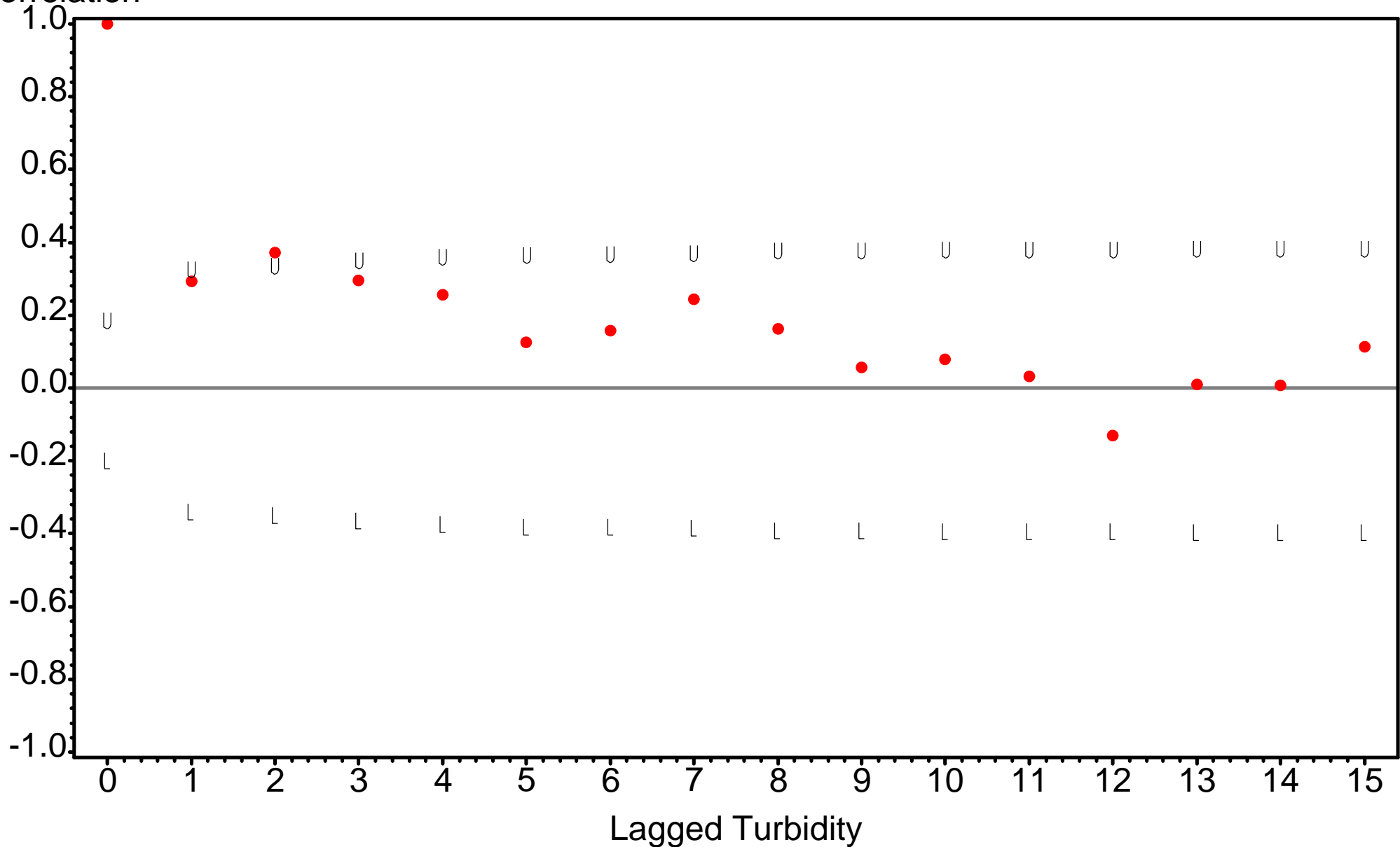
Tidal Caloosahatchee Trends Appendix - Display 1869
Autocorrelation Statistics for Surface Turbidity in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.293	0.167	0.333	-0.333
2	0.372	0.171	0.343	-0.343
3	0.295	0.179	0.357	-0.357
4	0.255	0.183	0.366	-0.366
5	0.125	0.186	0.373	-0.373
6	0.158	0.187	0.374	-0.374
7	0.245	0.188	0.377	-0.377
8	0.162	0.191	0.383	-0.383
9	0.056	0.193	0.385	-0.385
10	0.078	0.193	0.386	-0.386
11	0.032	0.193	0.386	-0.386
12	-0.130	0.193	0.386	-0.386
13	0.009	0.194	0.388	-0.388
14	0.008	0.194	0.388	-0.388
15	0.113	0.194	0.388	-0.388

Tidal Caloosahatchee Trends Appendix - Display 1870

Correlogram for Surface Turbidity in Tidal Caloosahatchee
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

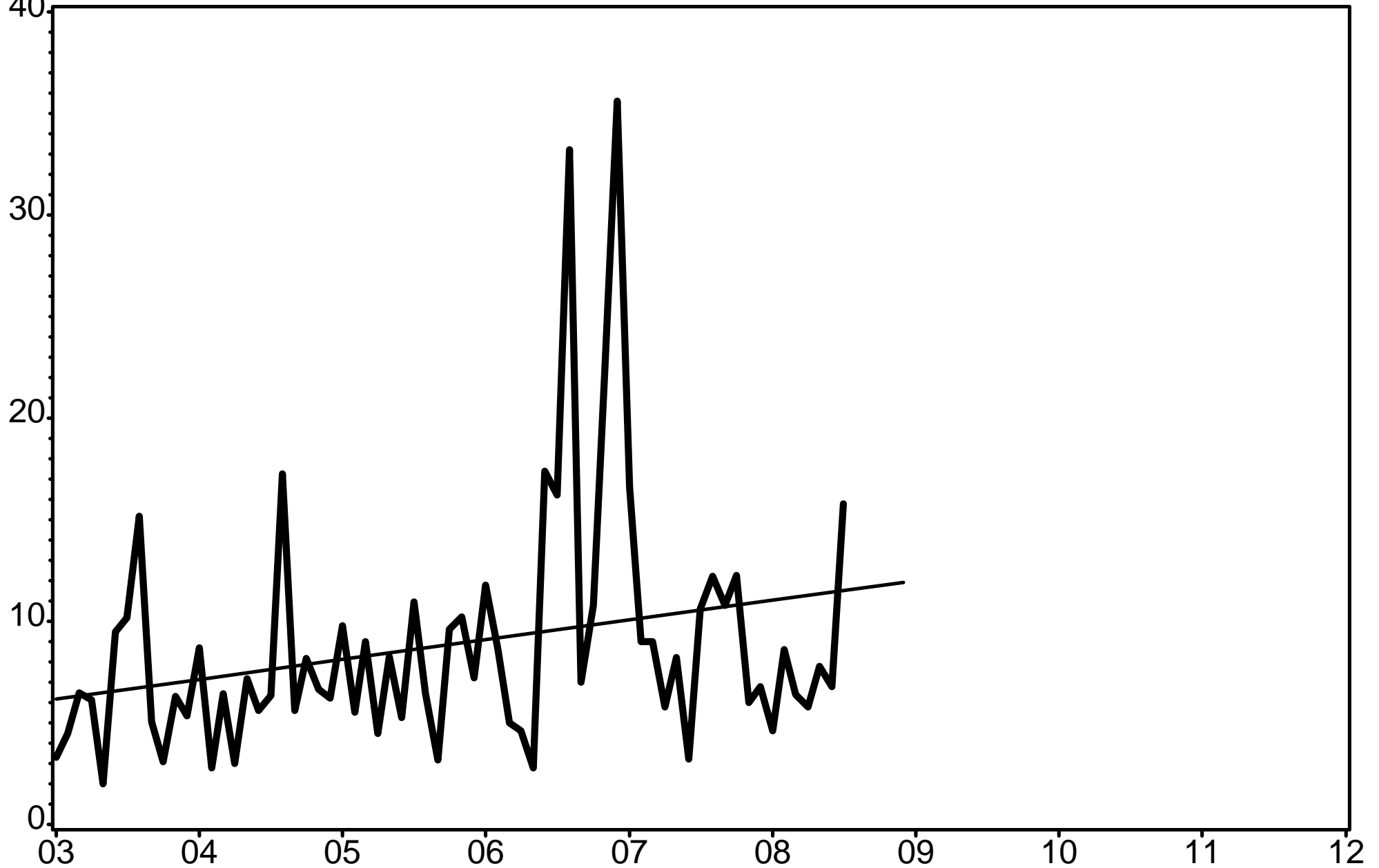
Tidal Myakka Trends Appendix - Display 1871

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Myakka

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



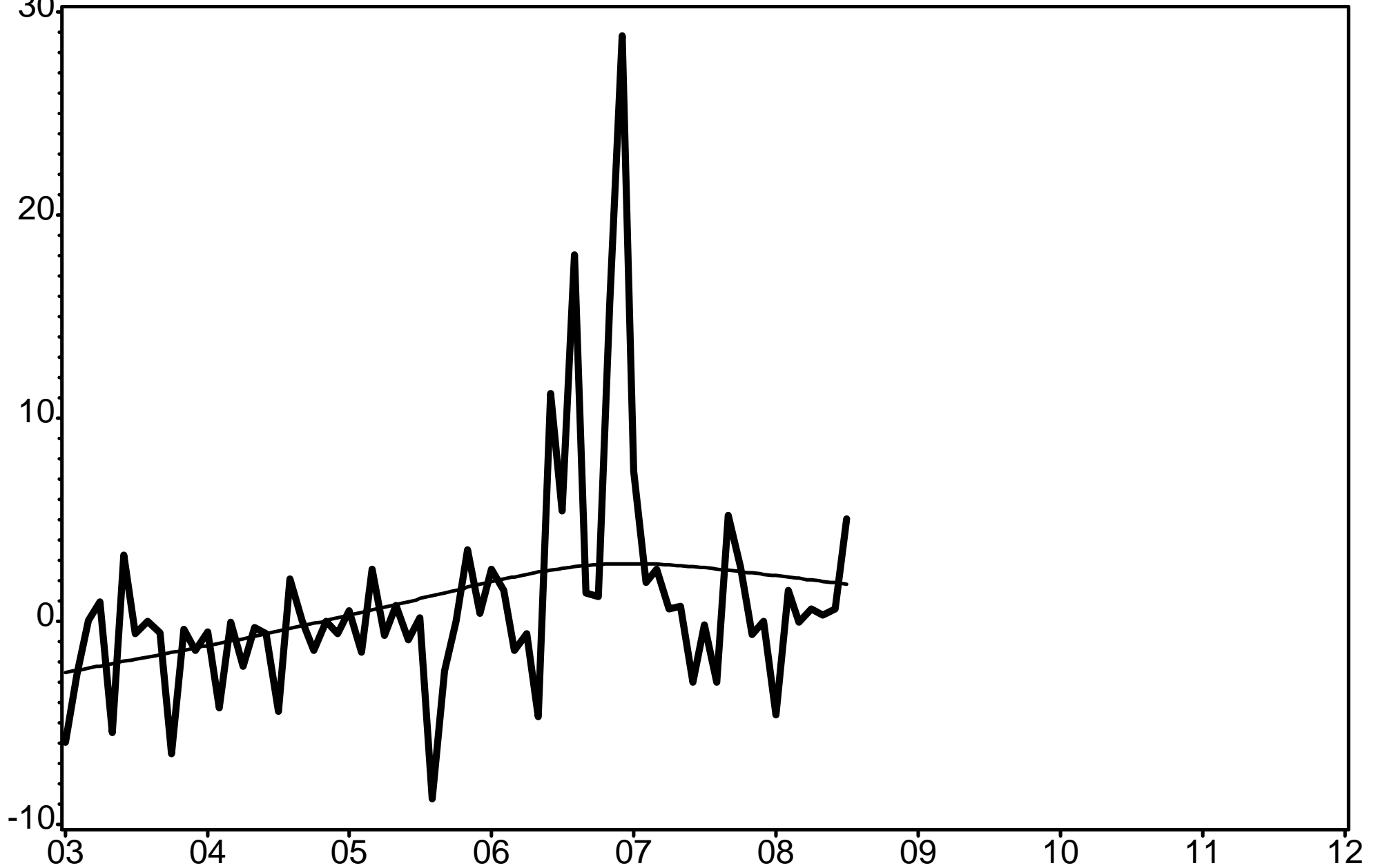
Tidal Myakka Trends Appendix - Display 1872

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

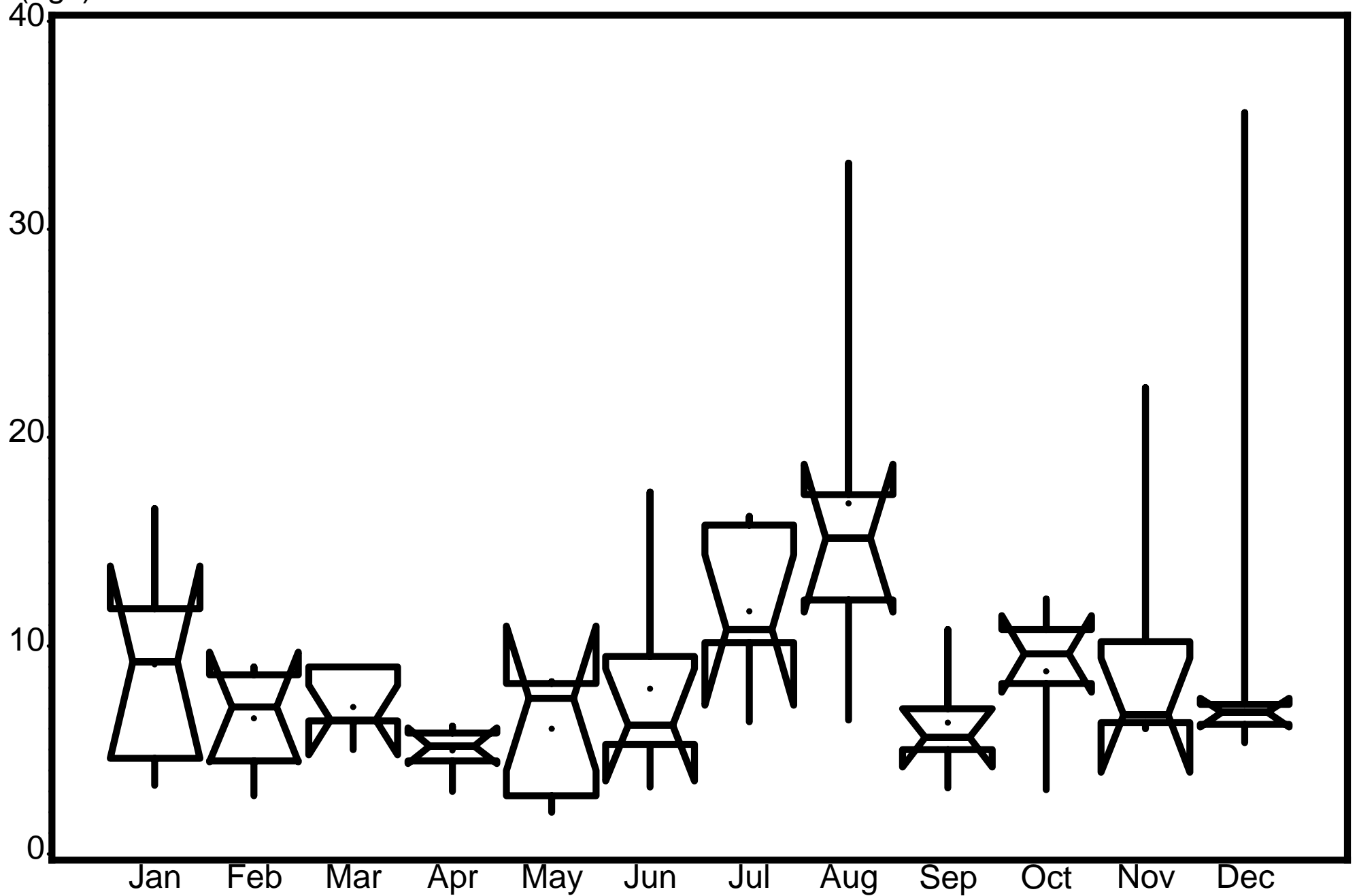


Tidal Myakka Trends Appendix - Display 1873

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Tidal Myakka

CHLAC_ugl
(ug/l)



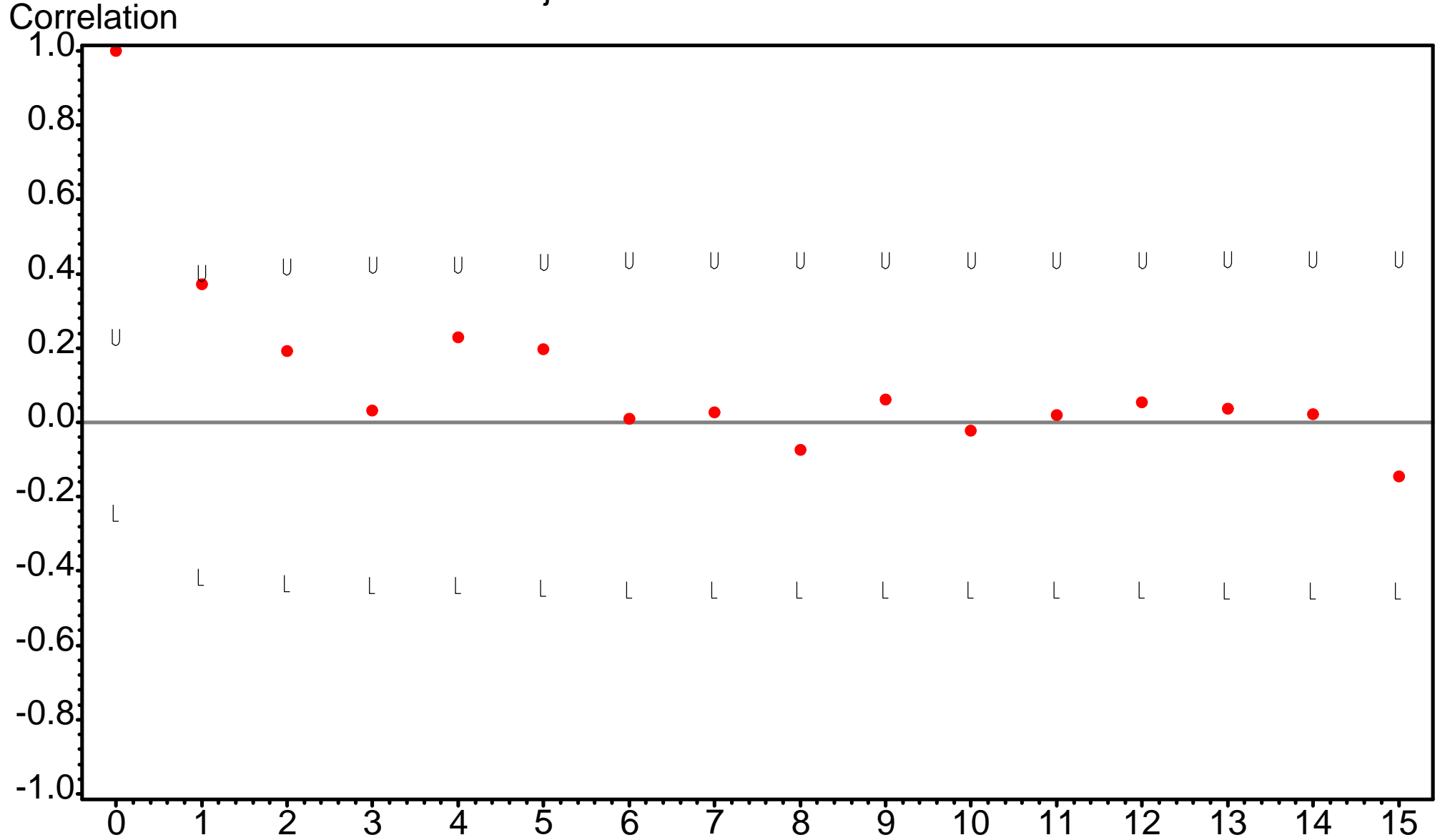
Tidal Myakka Trends Appendix - Display 1874

Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Myakka

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.372	0.204	0.408	-0.408
2	0.191	0.213	0.427	-0.427
3	0.033	0.216	0.431	-0.431
4	0.230	0.216	0.432	-0.432
5	0.196	0.219	0.438	-0.438
6	0.010	0.222	0.443	-0.443
7	0.028	0.222	0.443	-0.443
8	-0.074	0.222	0.443	-0.443
9	0.062	0.222	0.444	-0.444
10	-0.023	0.222	0.444	-0.444
11	0.019	0.222	0.444	-0.444
12	0.054	0.222	0.444	-0.444
13	0.038	0.222	0.445	-0.445
14	0.021	0.223	0.445	-0.445
15	-0.146	0.223	0.445	-0.445

Tidal Myakka Trends Appendix - Display 1875

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Myakka Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1876
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.215	0.01	0.01	0.656

Tidal Myakka Trends Appendix - Display 1877
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Myakka
Adjusted for Seasonal Medians

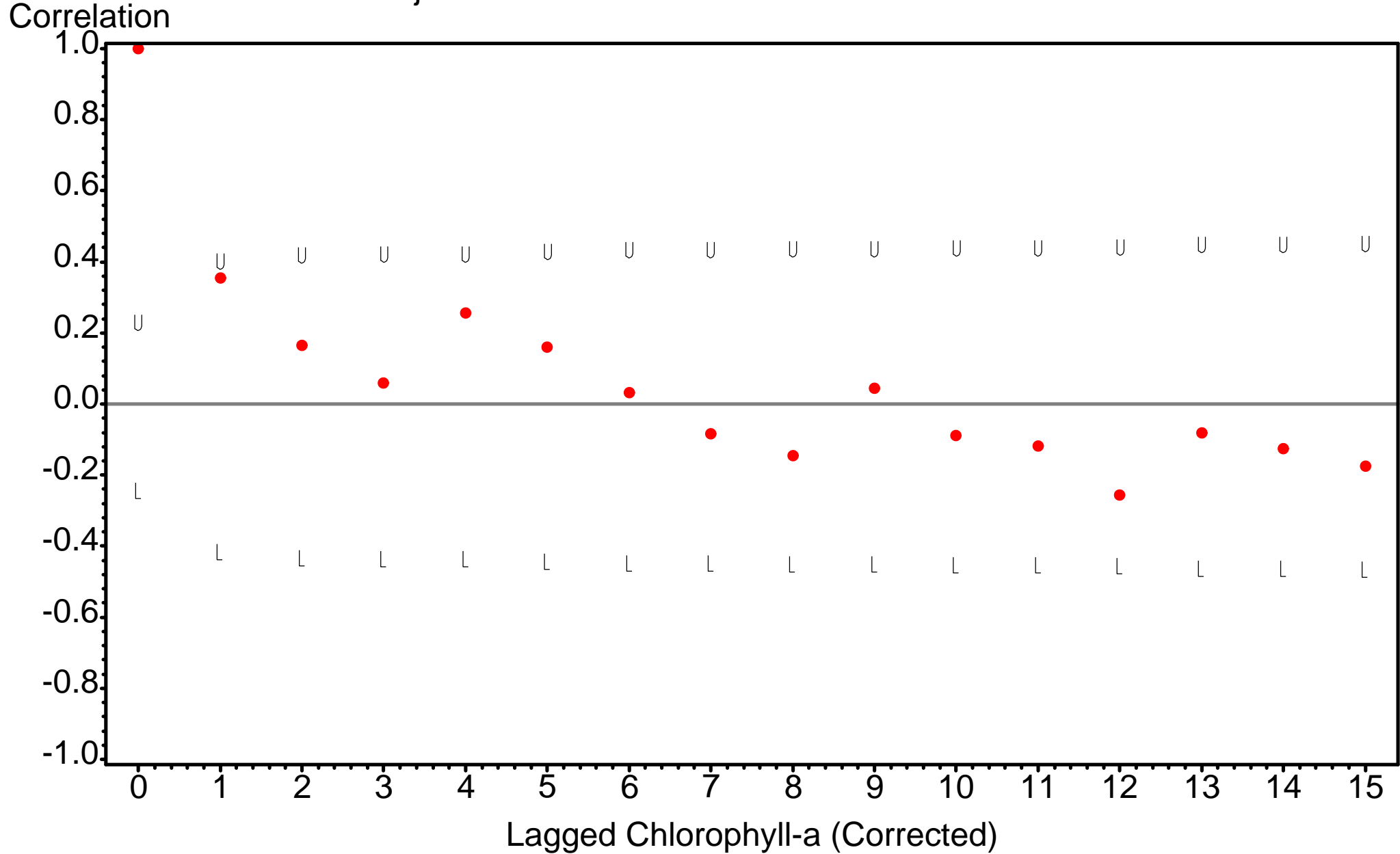
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.34194	.00187433	0.037526	0.824

Tidal Myakka Trends Appendix - Display 1879
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.355	0.204	0.408	-0.408
2	0.164	0.213	0.425	-0.425
3	0.060	0.214	0.429	-0.429
4	0.256	0.214	0.429	-0.429
5	0.161	0.219	0.437	-0.437
6	0.031	0.220	0.441	-0.441
7	-0.084	0.220	0.441	-0.441
8	-0.145	0.221	0.442	-0.442
9	0.045	0.222	0.444	-0.444
10	-0.089	0.222	0.445	-0.445
11	-0.117	0.223	0.446	-0.446
12	-0.255	0.224	0.447	-0.447
13	-0.081	0.228	0.455	-0.455
14	-0.125	0.228	0.456	-0.456
15	-0.175	0.229	0.458	-0.458

Tidal Myakka Trends Appendix - Display 1880

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Myakka Adjusted for Seasonal Median and Detrended

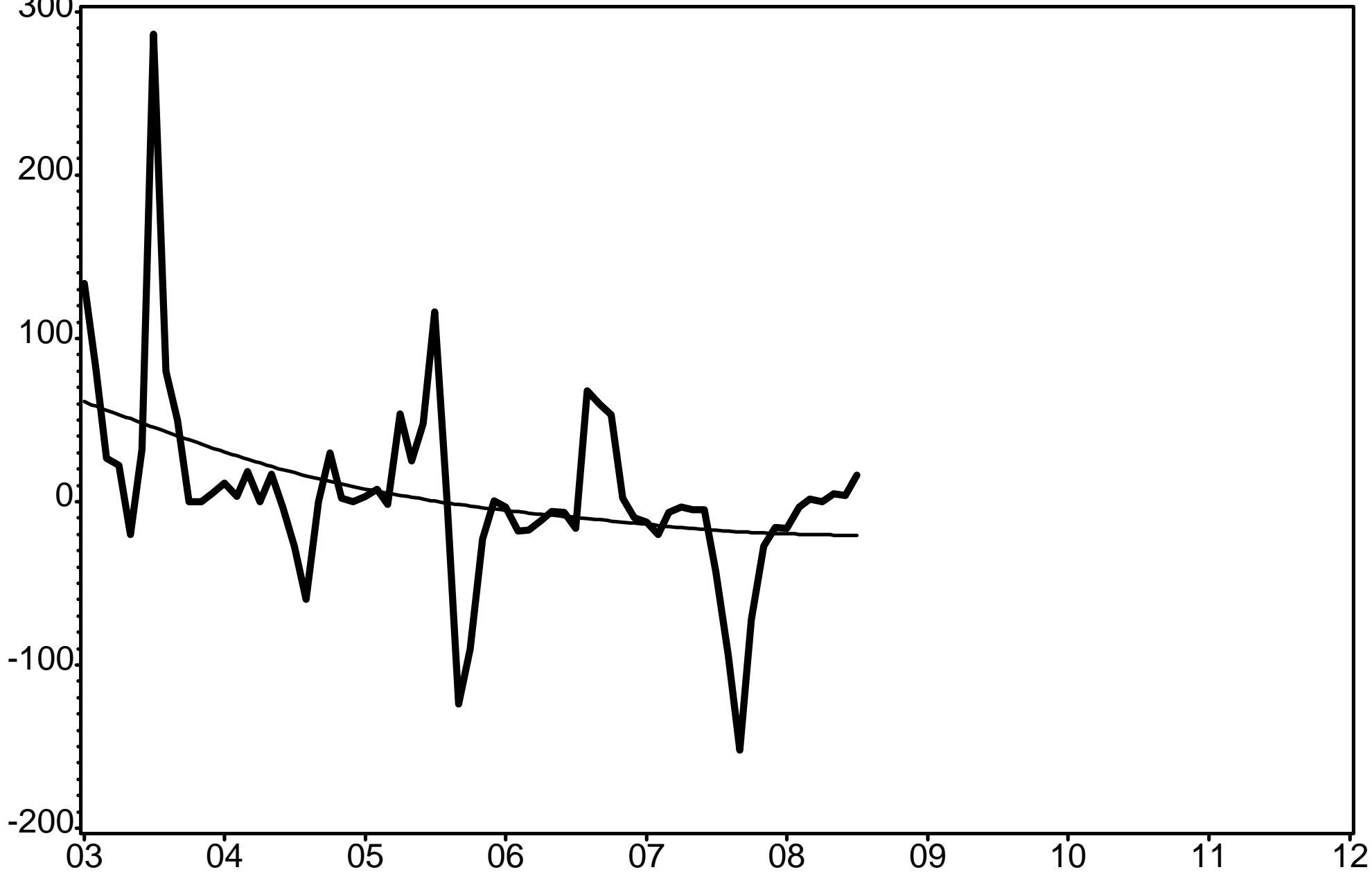


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1882

Monthly Data Time Series
for Surface Color in Tidal Myakka
Adjusted for Seasonal Medians

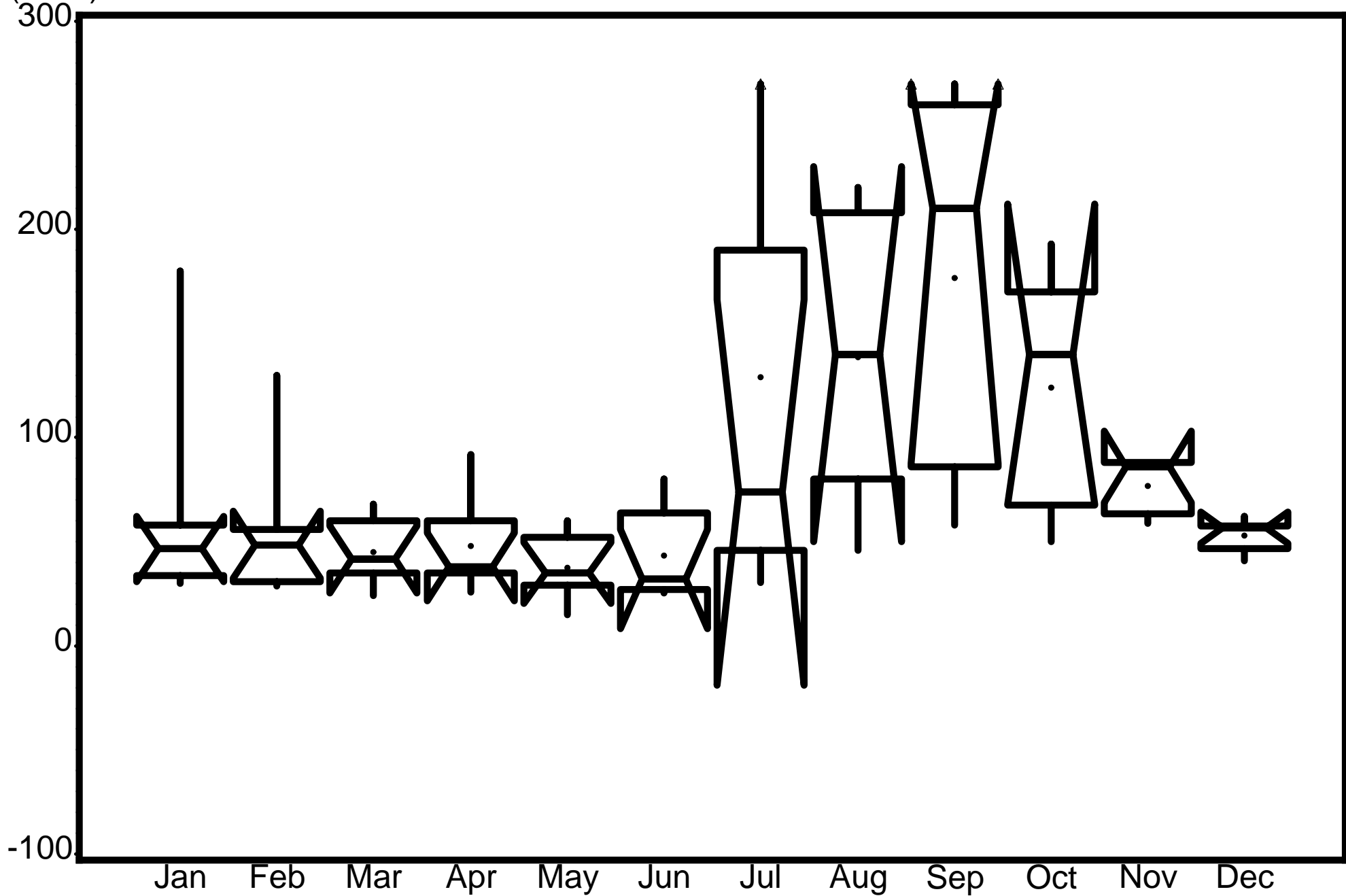
Adjusted
COLOR
(PCU)



Tidal Myakka Trends Appendix - Display 1883

Seasonal Univariate Statistics
for Surface Color in Tidal Myakka

COLOR
(PCU)



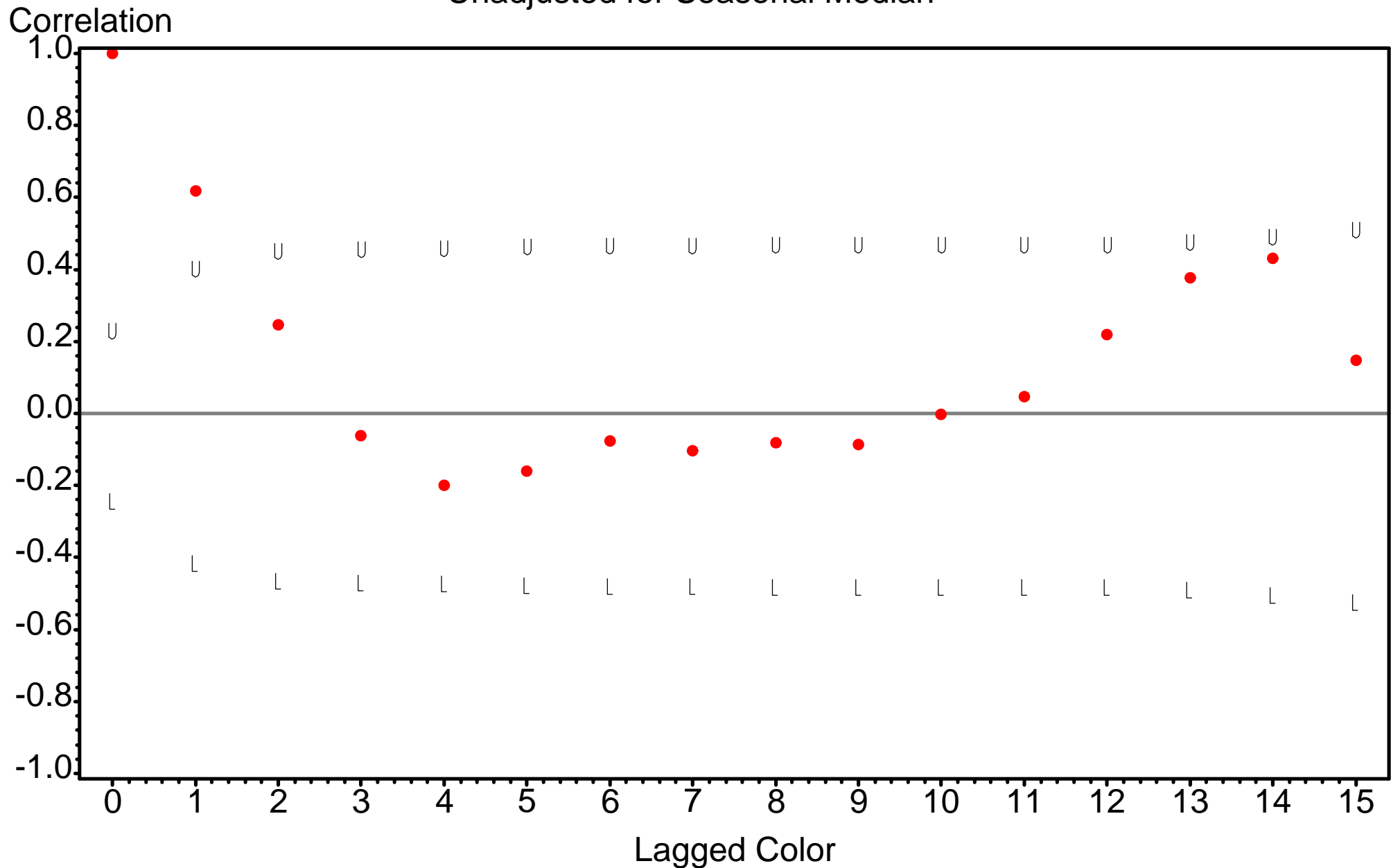
Tidal Myakka Trends Appendix - Display 1884

Autocorrelation Statistics for Surface Color in Tidal Myakka

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.617	0.204	0.408	-0.408
2	0.247	0.229	0.457	-0.457
3	-0.061	0.232	0.464	-0.464
4	-0.200	0.232	0.465	-0.465
5	-0.159	0.235	0.470	-0.470
6	-0.076	0.236	0.473	-0.473
7	-0.104	0.237	0.473	-0.473
8	-0.080	0.237	0.475	-0.475
9	-0.085	0.238	0.475	-0.475
10	-0.002	0.238	0.476	-0.476
11	0.048	0.238	0.476	-0.476
12	0.220	0.238	0.476	-0.476
13	0.377	0.241	0.482	-0.482
14	0.430	0.249	0.498	-0.498
15	0.148	0.259	0.518	-0.518

Tidal Myakka Trends Appendix - Display 1885

Correlogram for Surface Color in Tidal Myakka
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1886
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.282	.001	.001	-8

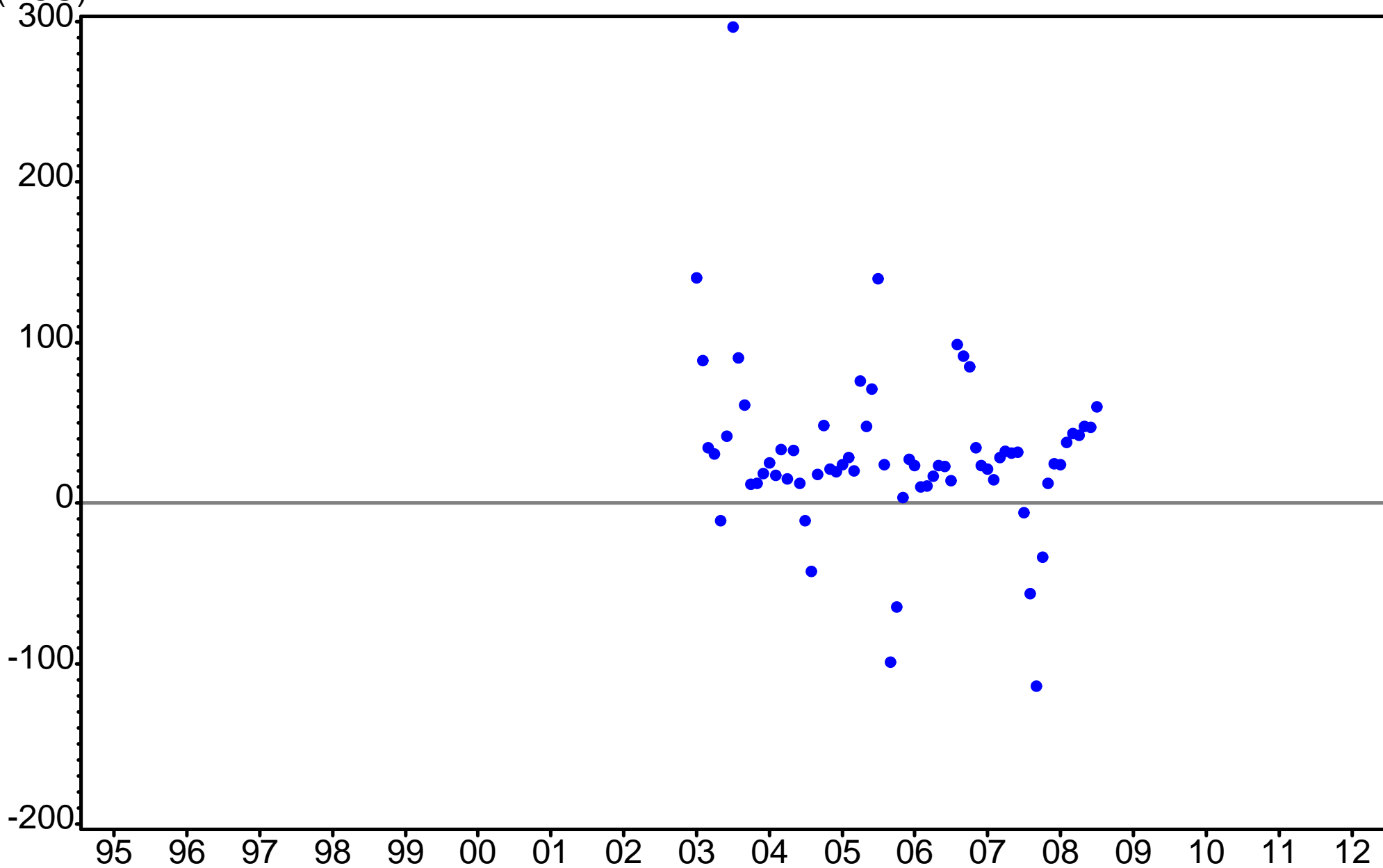
Tidal Myakka Trends Appendix - Display 1887
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.38065	.000524077	0.097582	-6.75

Tidal Myakka Trends Appendix - Display 1888

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(PCU)



Zero Reference Line Shown

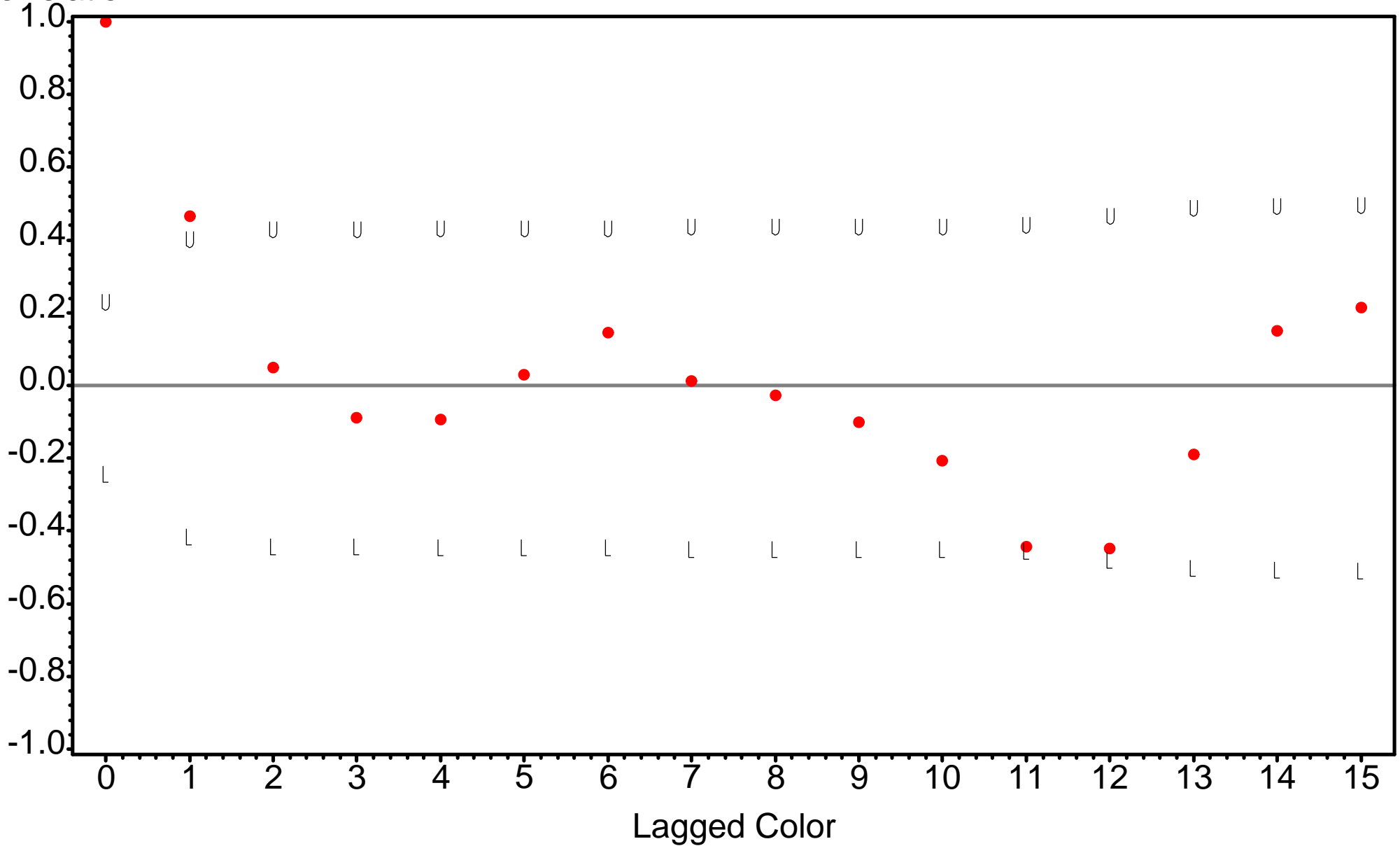
Tidal Myakka Trends Appendix - Display 1889
Autocorrelation Statistics for Surface Color in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.466	0.204	0.408	-0.408
2	0.049	0.218	0.437	-0.437
3	-0.088	0.219	0.437	-0.437
4	-0.093	0.219	0.438	-0.438
5	0.030	0.220	0.439	-0.439
6	0.145	0.220	0.439	-0.439
7	0.013	0.221	0.442	-0.442
8	-0.026	0.221	0.442	-0.442
9	-0.100	0.221	0.442	-0.442
10	-0.208	0.222	0.443	-0.443
11	-0.444	0.224	0.449	-0.449
12	-0.447	0.236	0.472	-0.472
13	-0.190	0.248	0.495	-0.495
14	0.151	0.250	0.499	-0.499
15	0.214	0.251	0.502	-0.502

Tidal Myakka Trends Appendix - Display 1890

Correlogram for Surface Color in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

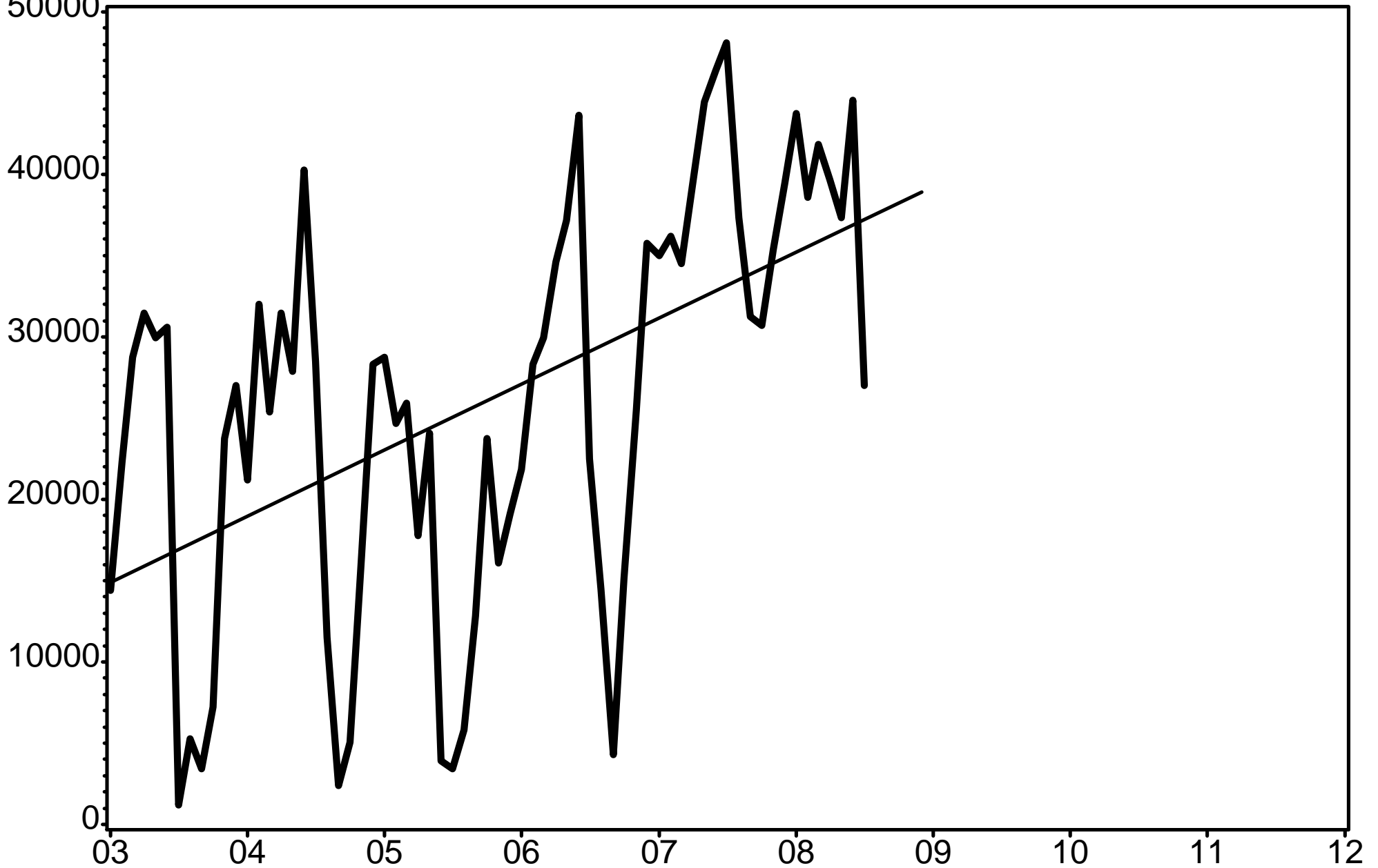
Tidal Myakka Trends Appendix - Display 1891

Monthly Data Time Series

for Surface Specific Conductance in Tidal Myakka

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



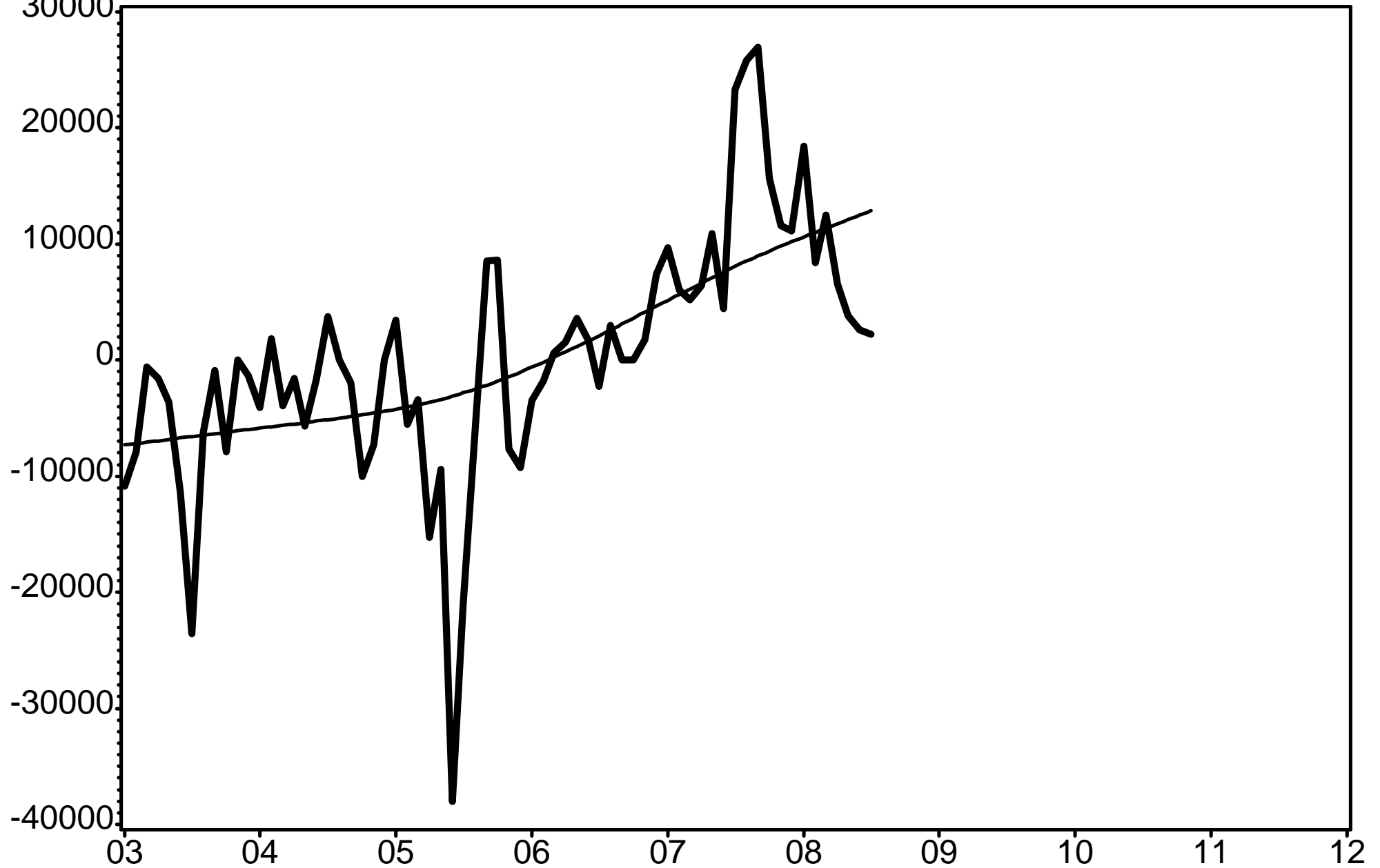
Tidal Myakka Trends Appendix - Display 1892

Monthly Data Time Series

for Surface Specific Conductance in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)

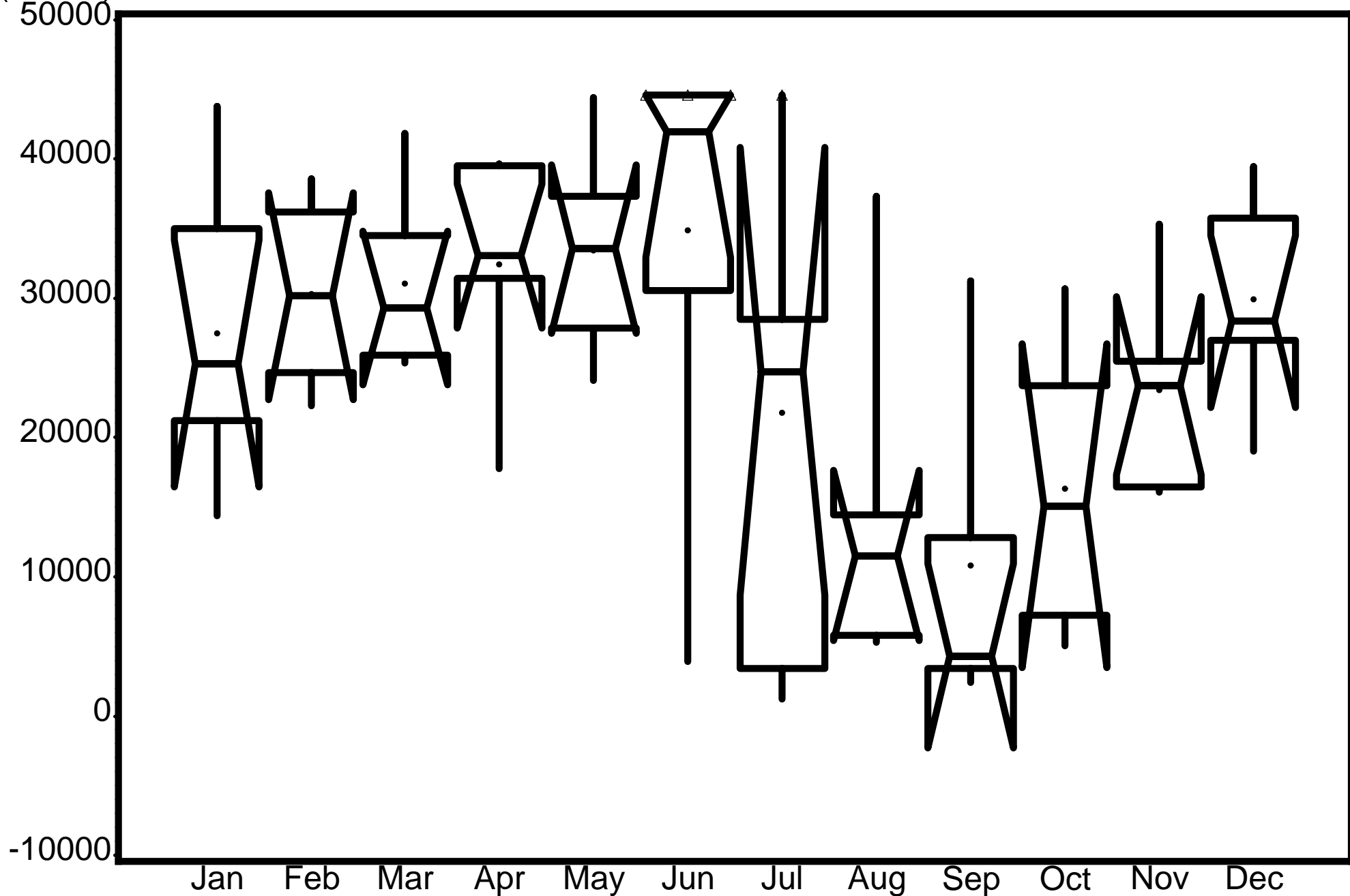


Tidal Myakka Trends Appendix - Display 1893

Seasonal Univariate Statistics

for Surface Specific Conductance in Tidal Myakka

COND
($\mu\text{S}/\text{cm}$)



Tidal Myakka Trends Appendix - Display 1894

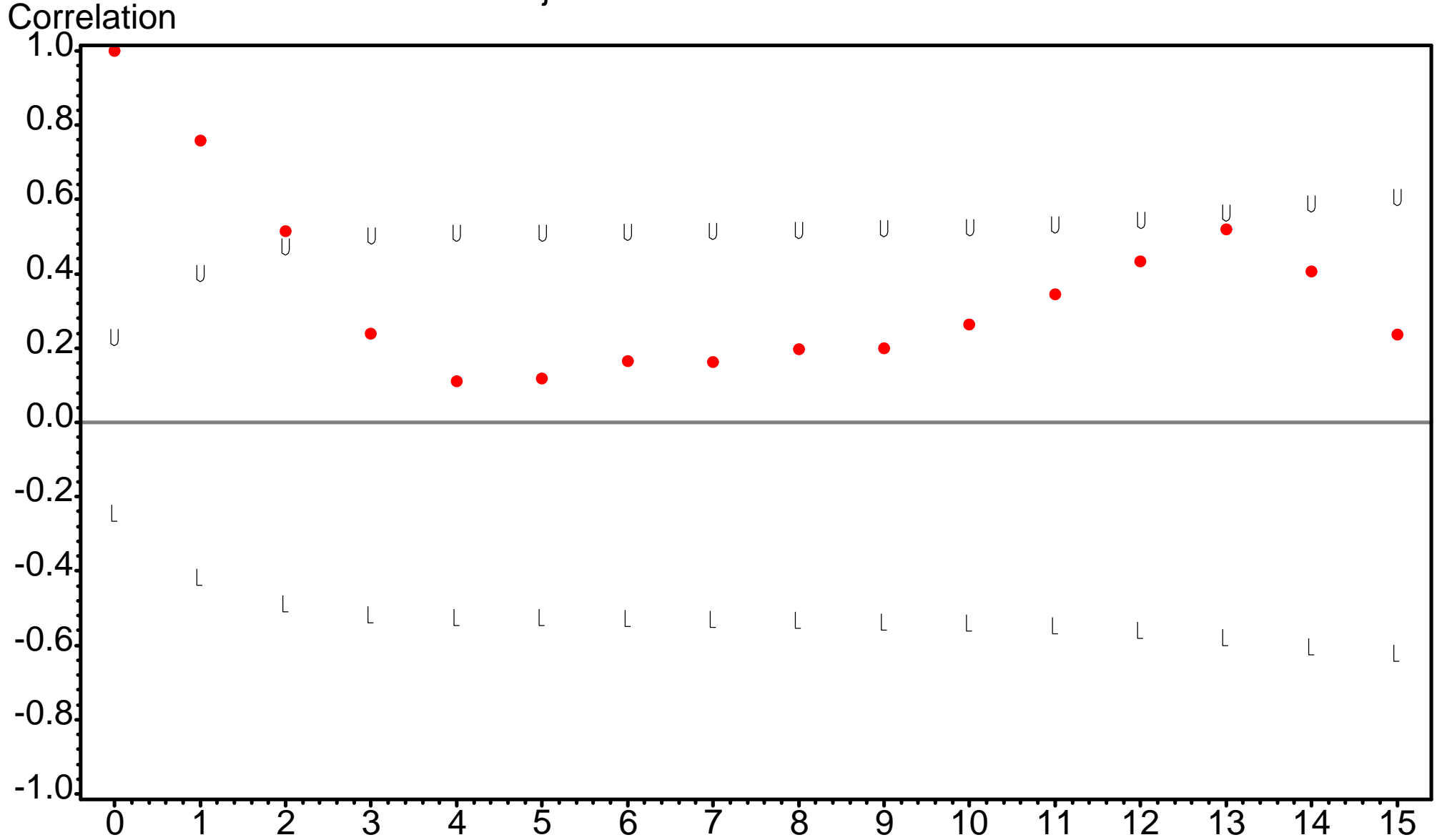
Autocorrelation Statistics for Surface Specific Conductance in Tidal Myakka

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.759	0.204	0.408	-0.408
2	0.515	0.240	0.480	-0.480
3	0.238	0.255	0.510	-0.510
4	0.110	0.258	0.516	-0.516
5	0.119	0.259	0.517	-0.517
6	0.165	0.260	0.519	-0.519
7	0.162	0.261	0.522	-0.522
8	0.196	0.262	0.525	-0.525
9	0.200	0.264	0.529	-0.529
10	0.263	0.266	0.533	-0.533
11	0.345	0.270	0.540	-0.540
12	0.433	0.276	0.552	-0.552
13	0.519	0.285	0.571	-0.571
14	0.407	0.298	0.596	-0.596
15	0.237	0.306	0.612	-0.612

Tidal Myakka Trends Appendix - Display 1895

Correlogram for Surface Specific Conductance in Tidal Myakka

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1896
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.382	0	0	3964.8

Tidal Myakka Trends Appendix - Display 1897
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Myakka
Adjusted for Seasonal Medians

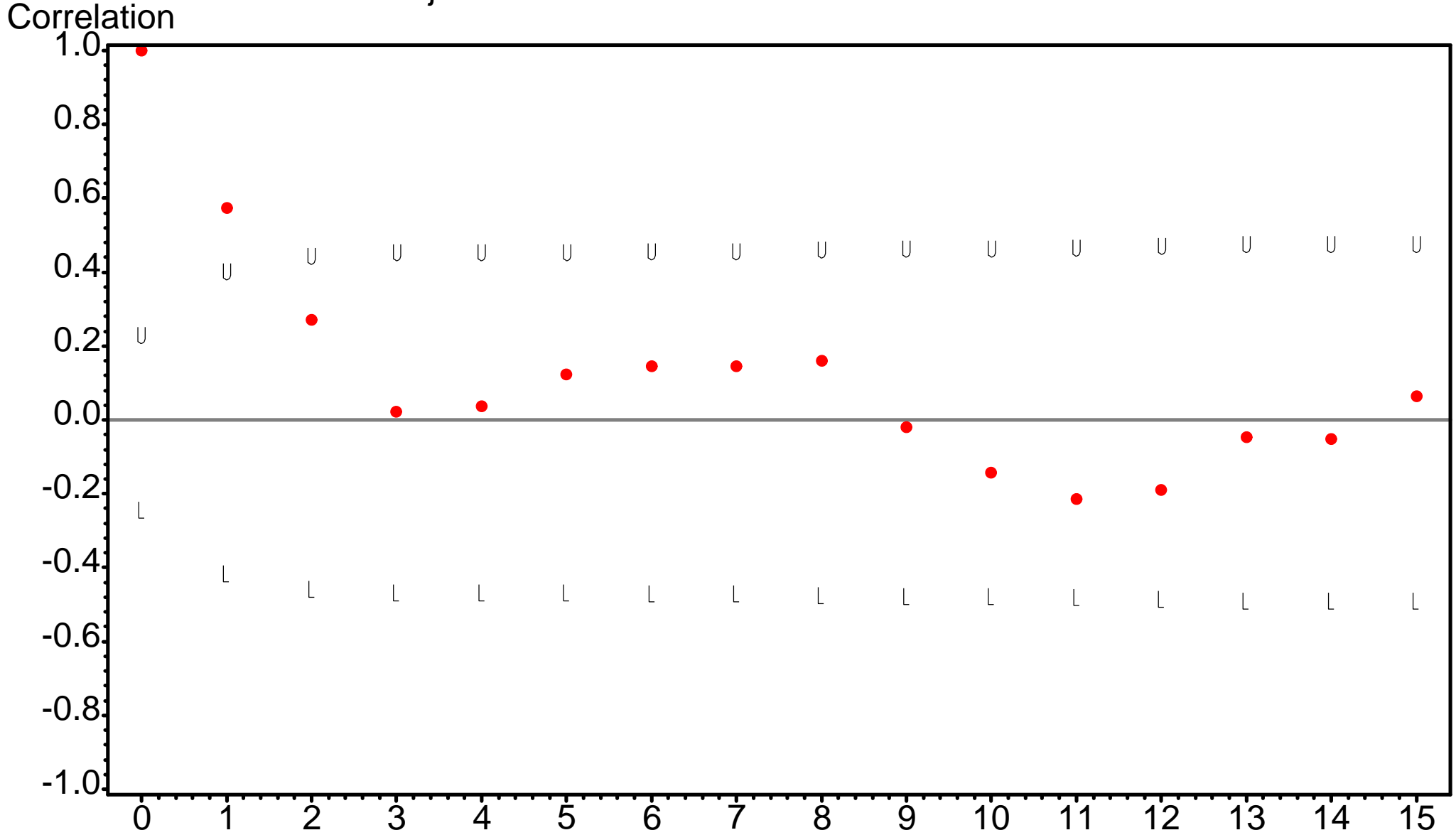
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.63871	0	0.032350	3621.5

Tidal Myakka Trends Appendix - Display 1899
Autocorrelation Statistics for Surface Specific Conductance in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.573	0.204	0.408	-0.408
2	0.271	0.225	0.451	-0.451
3	0.021	0.230	0.460	-0.460
4	0.036	0.230	0.460	-0.460
5	0.122	0.230	0.460	-0.460
6	0.146	0.231	0.462	-0.462
7	0.145	0.232	0.464	-0.464
8	0.161	0.233	0.467	-0.467
9	-0.020	0.235	0.470	-0.470
10	-0.142	0.235	0.470	-0.470
11	-0.215	0.236	0.472	-0.472
12	-0.189	0.239	0.478	-0.478
13	-0.047	0.241	0.482	-0.482
14	-0.051	0.241	0.482	-0.482
15	0.064	0.241	0.482	-0.482

Tidal Myakka Trends Appendix - Display 1900

Correlogram for Surface Specific Conductance in Tidal Myakka Adjusted for Seasonal Median and Detrended



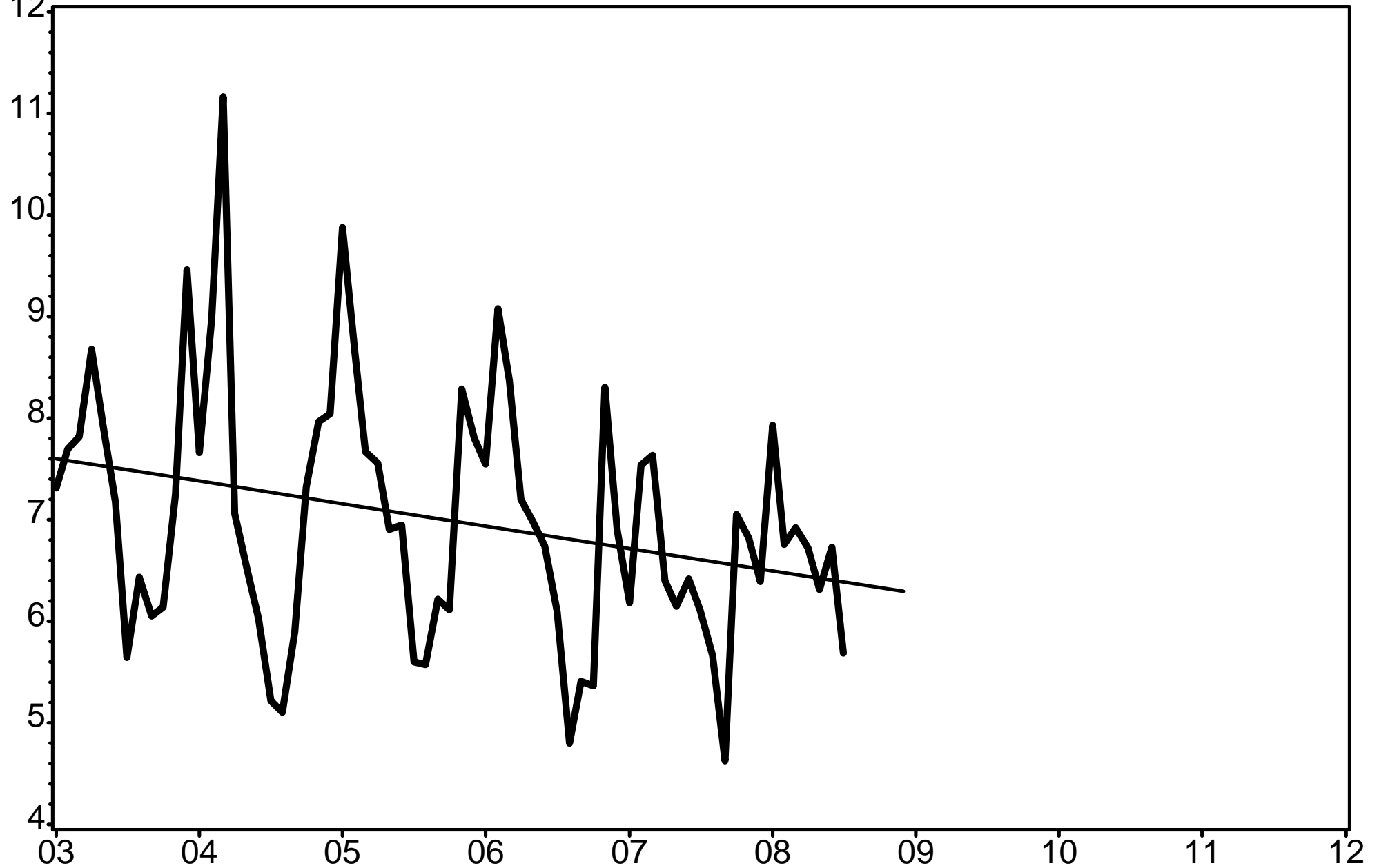
Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1901

Monthly Data Time Series
for Surface Dissolved Oxygen in Tidal Myakka
Not Adjusted for Seasonal Medians

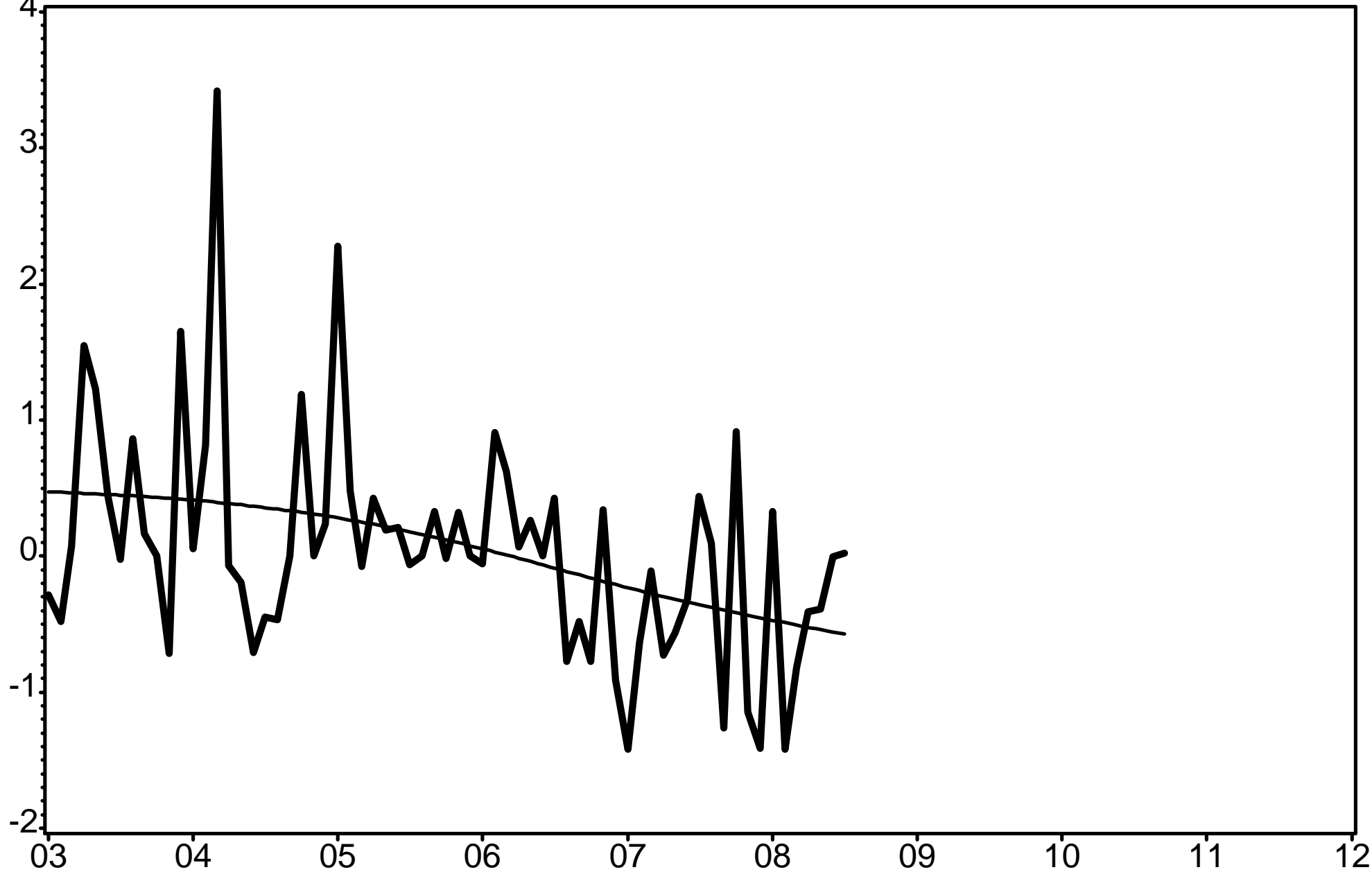
DO_mgl
(mg/l)



Tidal Myakka Trends Appendix - Display 1902

Monthly Data Time Series
for Surface Dissolved Oxygen in Tidal Myakka
Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

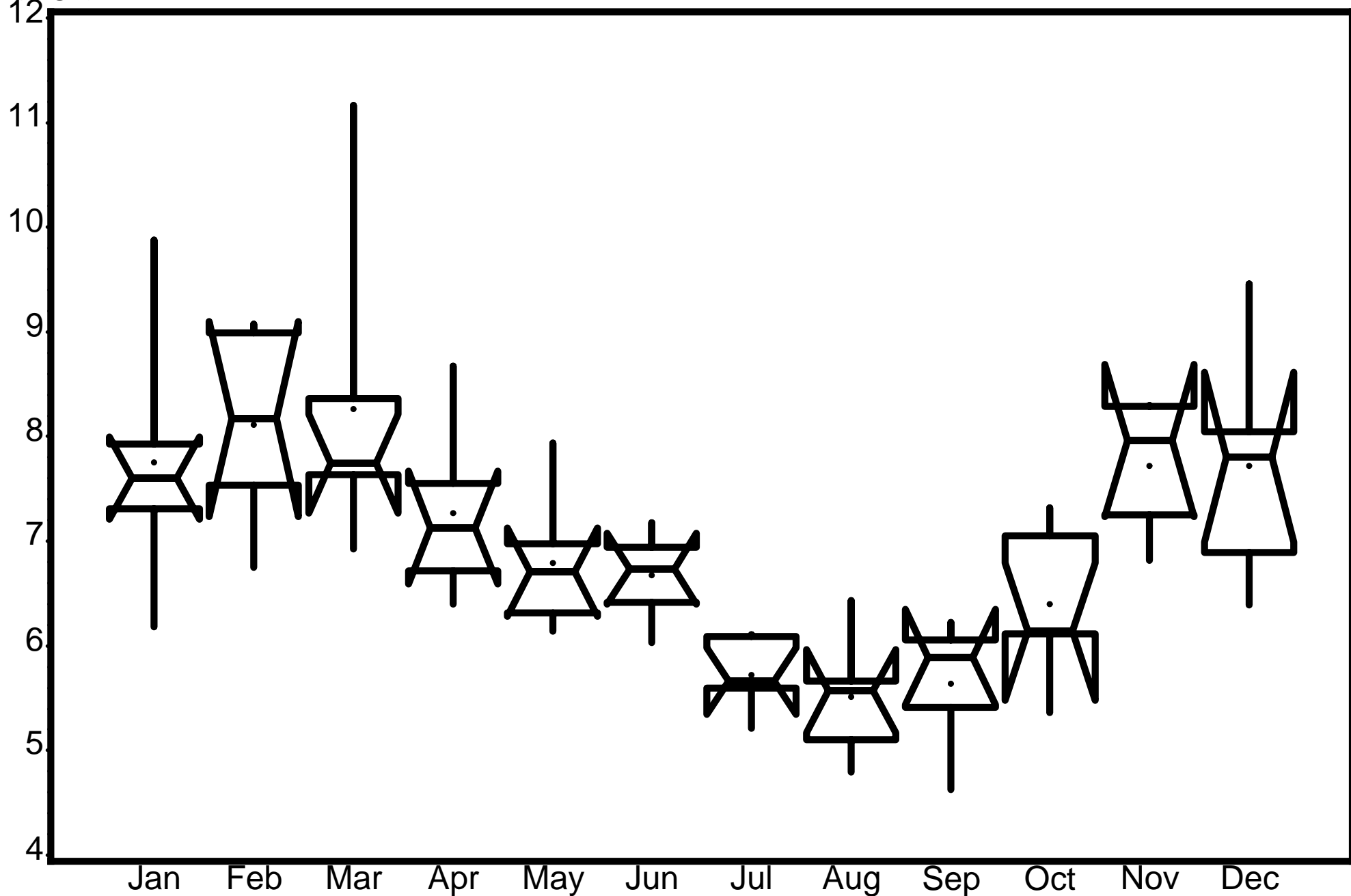


Tidal Myakka Trends Appendix - Display 1903

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Tidal Myakka

DO_mgl
(mg/l)



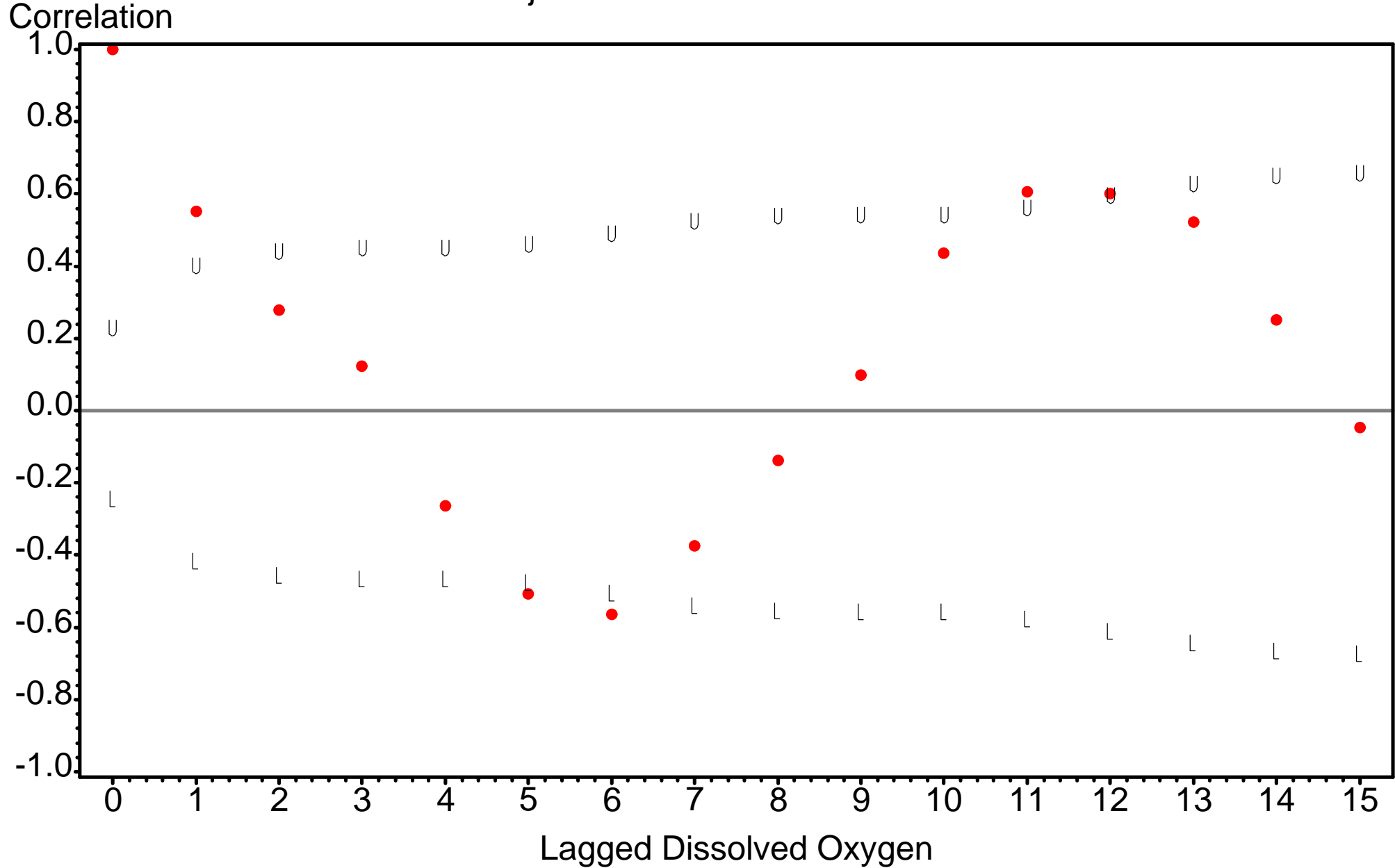
Tidal Myakka Trends Appendix - Display 1904

Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Myakka

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.552	0.204	0.408	-0.408
2	0.278	0.224	0.448	-0.448
3	0.124	0.229	0.457	-0.457
4	-0.263	0.230	0.459	-0.459
5	-0.506	0.234	0.467	-0.467
6	-0.564	0.248	0.497	-0.497
7	-0.373	0.266	0.531	-0.531
8	-0.138	0.273	0.546	-0.546
9	0.098	0.274	0.548	-0.548
10	0.437	0.274	0.549	-0.549
11	0.606	0.284	0.568	-0.568
12	0.600	0.301	0.602	-0.602
13	0.523	0.317	0.635	-0.635
14	0.250	0.329	0.658	-0.658
15	-0.047	0.332	0.664	-0.664

Tidal Myakka Trends Appendix - Display 1905

Correlogram for Surface Dissolved Oxygen in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1906
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.195	0.02	0.02	-0.203

Tidal Myakka Trends Appendix - Display 1907
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Myakka
Adjusted for Seasonal Medians

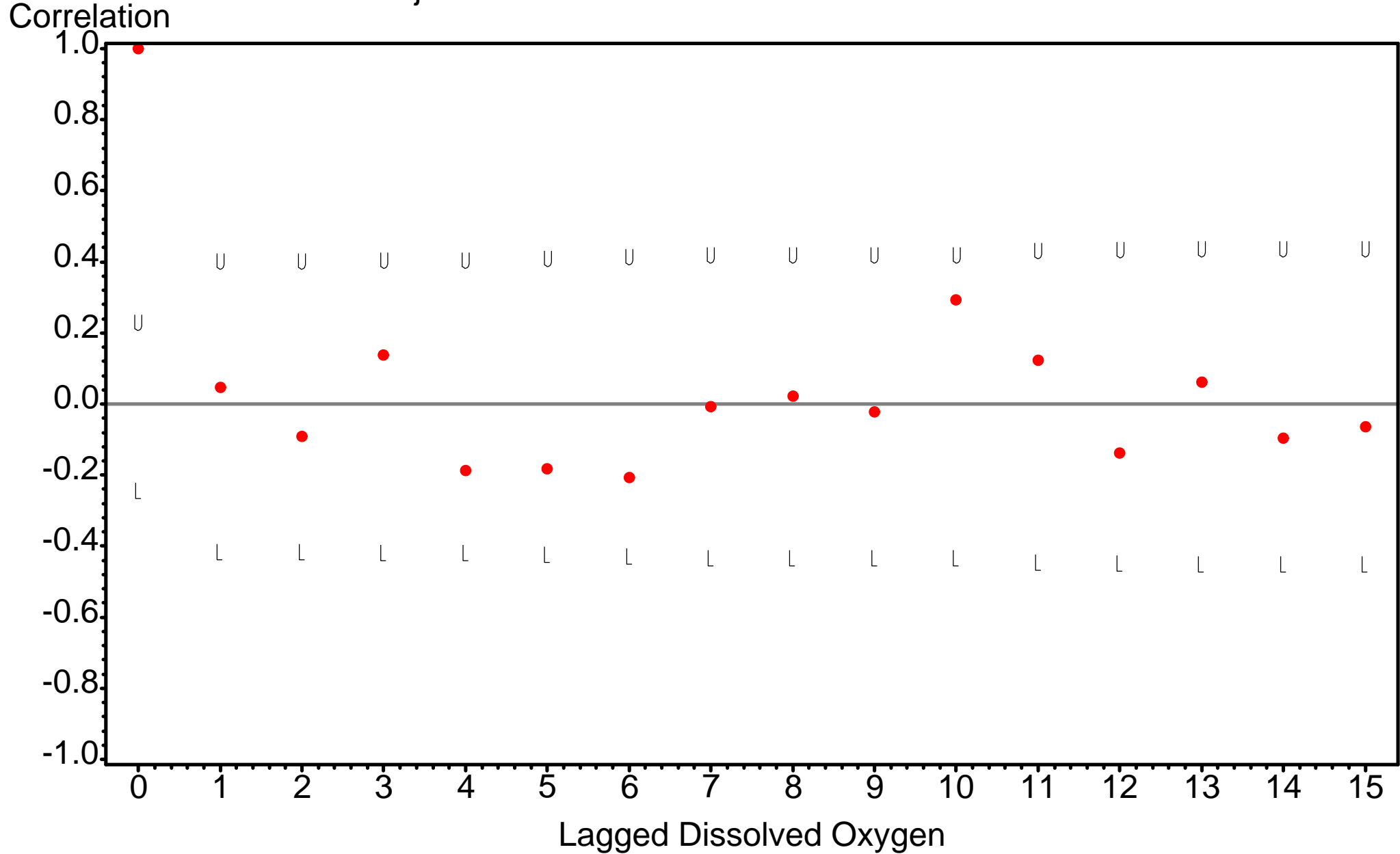
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.29032	.00874871	0.068885	-0.1925

Tidal Myakka Trends Appendix - Display 1909
Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.047	0.204	0.408	-0.408
2	-0.091	0.204	0.409	-0.409
3	0.138	0.205	0.410	-0.410
4	-0.187	0.206	0.412	-0.412
5	-0.181	0.208	0.417	-0.417
6	-0.207	0.211	0.421	-0.421
7	-0.008	0.213	0.427	-0.427
8	0.022	0.213	0.427	-0.427
9	-0.023	0.213	0.427	-0.427
10	0.292	0.214	0.427	-0.427
11	0.122	0.219	0.438	-0.438
12	-0.138	0.220	0.440	-0.440
13	0.061	0.221	0.442	-0.442
14	-0.096	0.221	0.443	-0.443
15	-0.064	0.222	0.444	-0.444

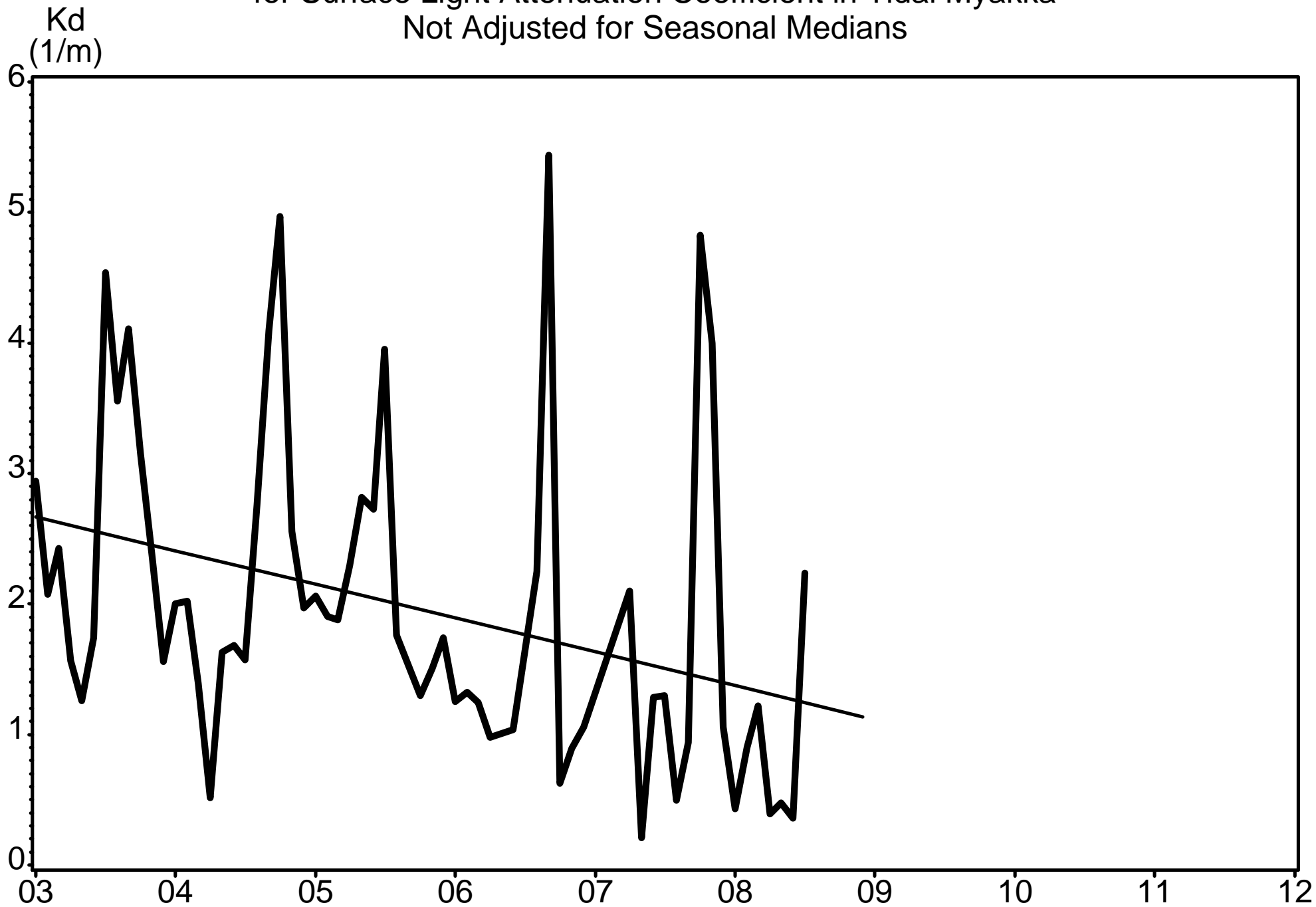
Tidal Myakka Trends Appendix - Display 1910

Correlogram for Surface Dissolved Oxygen in Tidal Myakka Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1911
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Tidal Myakka
Not Adjusted for Seasonal Medians

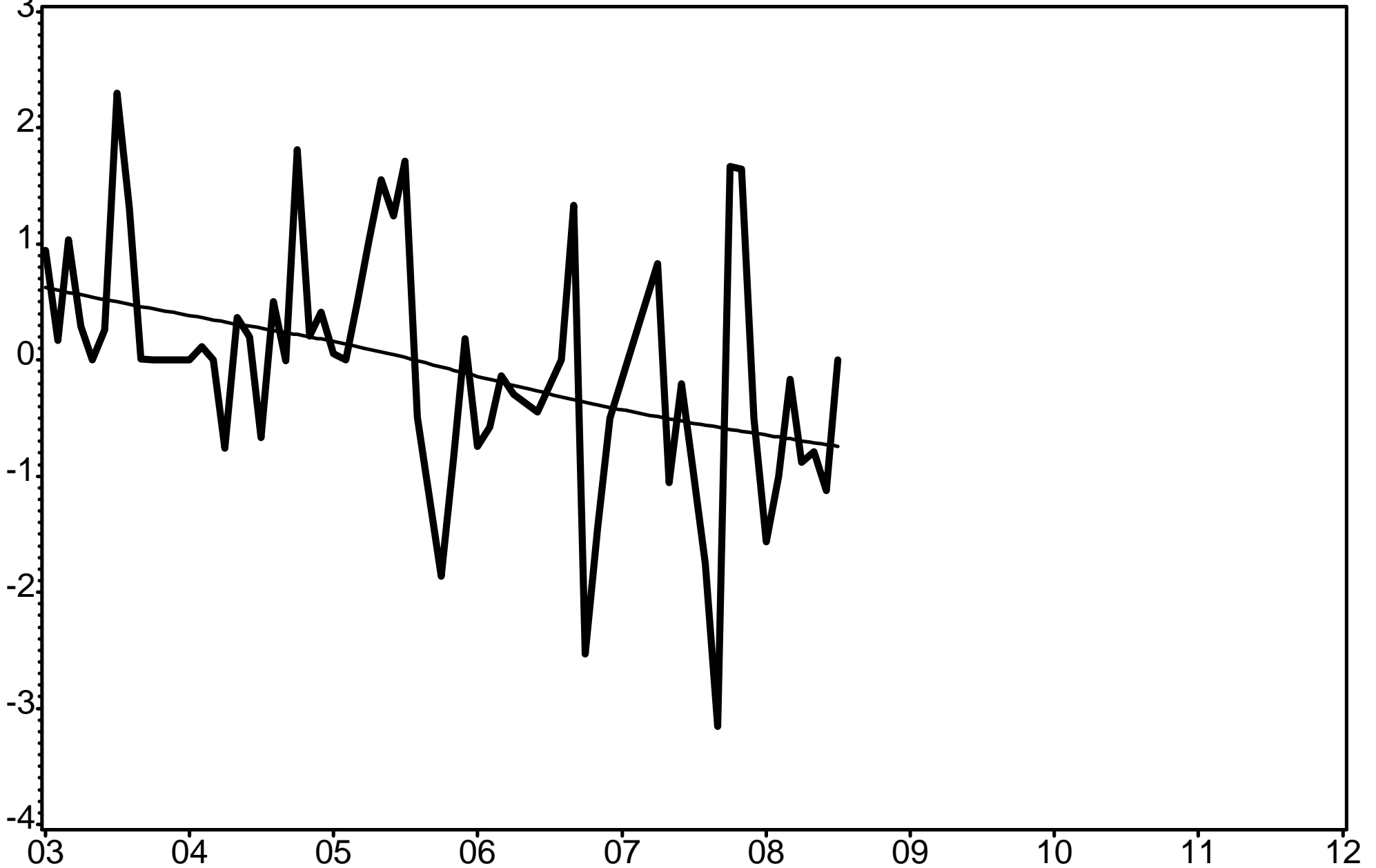


Tidal Myakka Trends Appendix - Display 1912

Monthly Data Time Series

for Surface Light Attenuation Coefficient in Tidal Myakka
Adjusted for Seasonal Medians

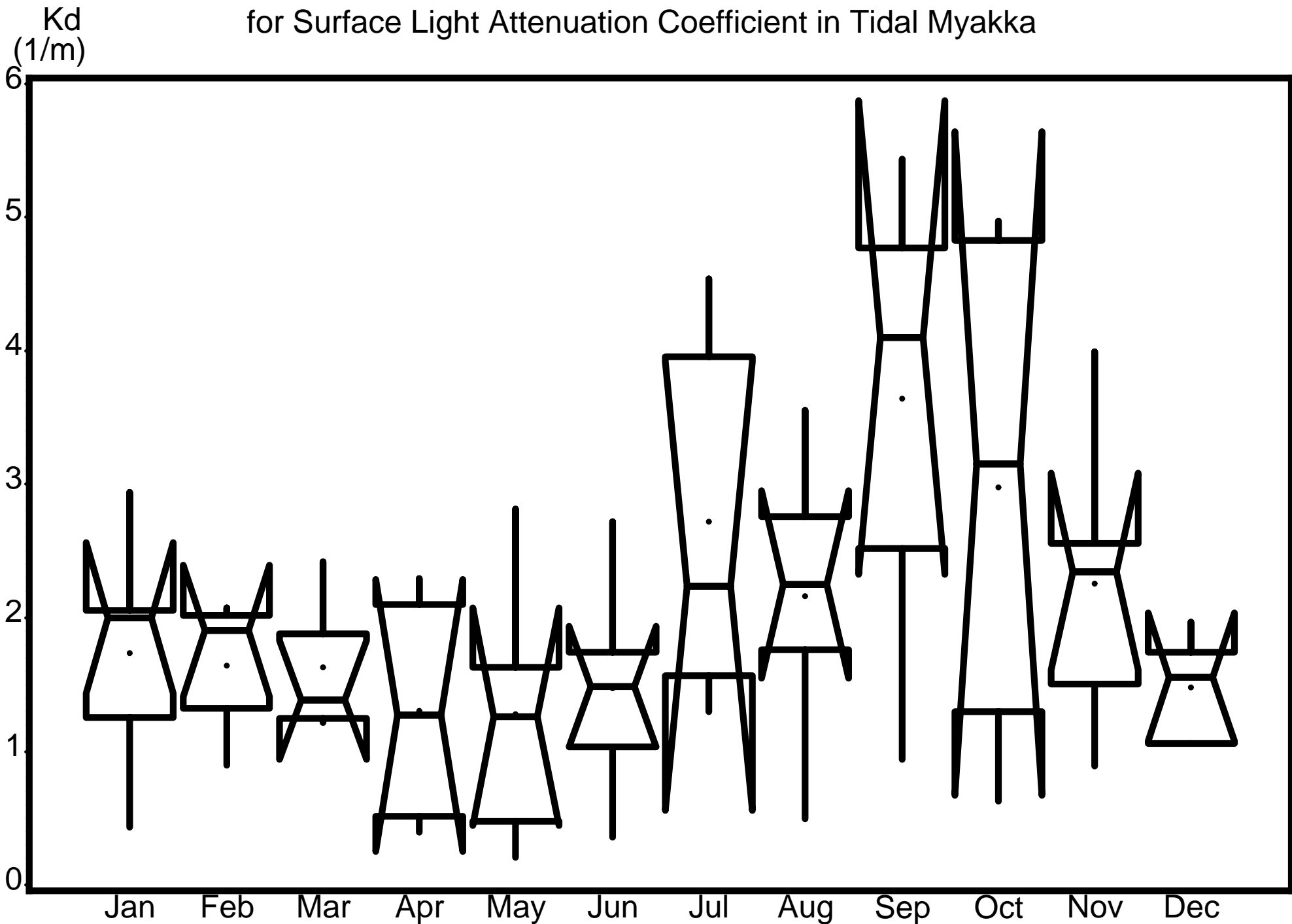
Adjusted
 K_d
(1/m)



Tidal Myakka Trends Appendix - Display 1913

Seasonal Univariate Statistics

for Surface Light Attenuation Coefficient in Tidal Myakka



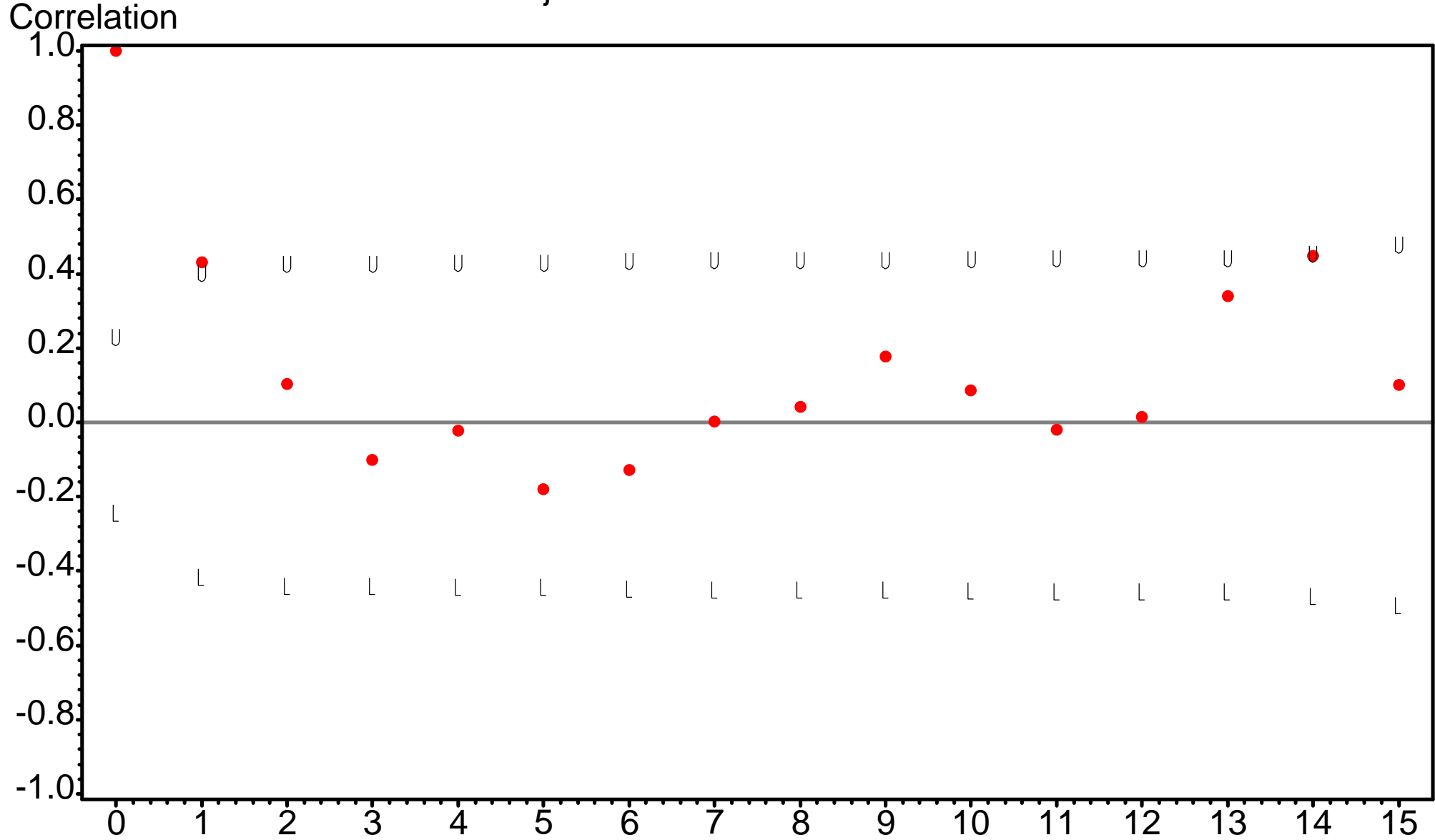
Tidal Myakka Trends Appendix - Display 1914

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Myakka

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.431	0.204	0.408	-0.408
2	0.104	0.216	0.433	-0.433
3	-0.101	0.217	0.434	-0.434
4	-0.022	0.218	0.435	-0.435
5	-0.180	0.218	0.436	-0.436
6	-0.127	0.220	0.440	-0.440
7	0.003	0.221	0.442	-0.442
8	0.043	0.221	0.442	-0.442
9	0.178	0.221	0.442	-0.442
10	0.086	0.223	0.446	-0.446
11	-0.019	0.223	0.447	-0.447
12	0.014	0.223	0.447	-0.447
13	0.341	0.223	0.447	-0.447
14	0.448	0.231	0.461	-0.461
15	0.100	0.242	0.485	-0.485

Tidal Myakka Trends Appendix - Display 1915

Correlogram for Surface Light Attenuation Coefficient in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1916
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.364	0	0	-0.298

Tidal Myakka Trends Appendix - Display 1917
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Myakka
Adjusted for Seasonal Medians

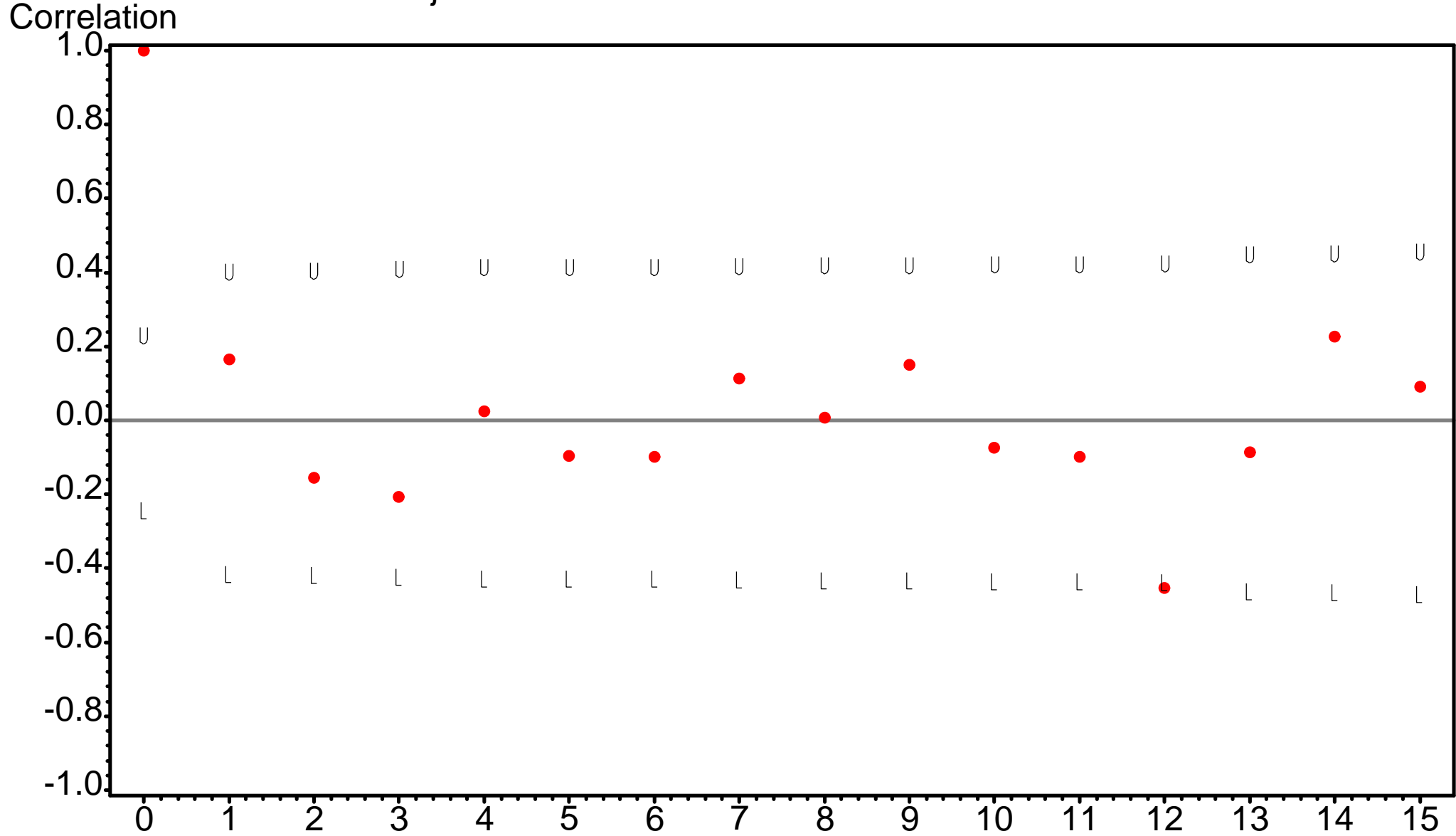
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.47619	.000058269	0.037061	-0.27843

Tidal Myakka Trends Appendix - Display 1919
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.164	0.204	0.408	-0.408
2	-0.154	0.206	0.412	-0.412
3	-0.208	0.208	0.415	-0.415
4	0.024	0.210	0.421	-0.421
5	-0.095	0.210	0.421	-0.421
6	-0.098	0.211	0.422	-0.422
7	0.114	0.212	0.423	-0.423
8	0.008	0.213	0.425	-0.425
9	0.150	0.213	0.425	-0.425
10	-0.074	0.214	0.428	-0.428
11	-0.098	0.214	0.429	-0.429
12	-0.454	0.215	0.430	-0.430
13	-0.085	0.228	0.456	-0.456
14	0.227	0.228	0.457	-0.457
15	0.090	0.231	0.463	-0.463

Tidal Myakka Trends Appendix - Display 1920

Correlogram for Surface Light Attenuation Coefficient in Tidal Myakka Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

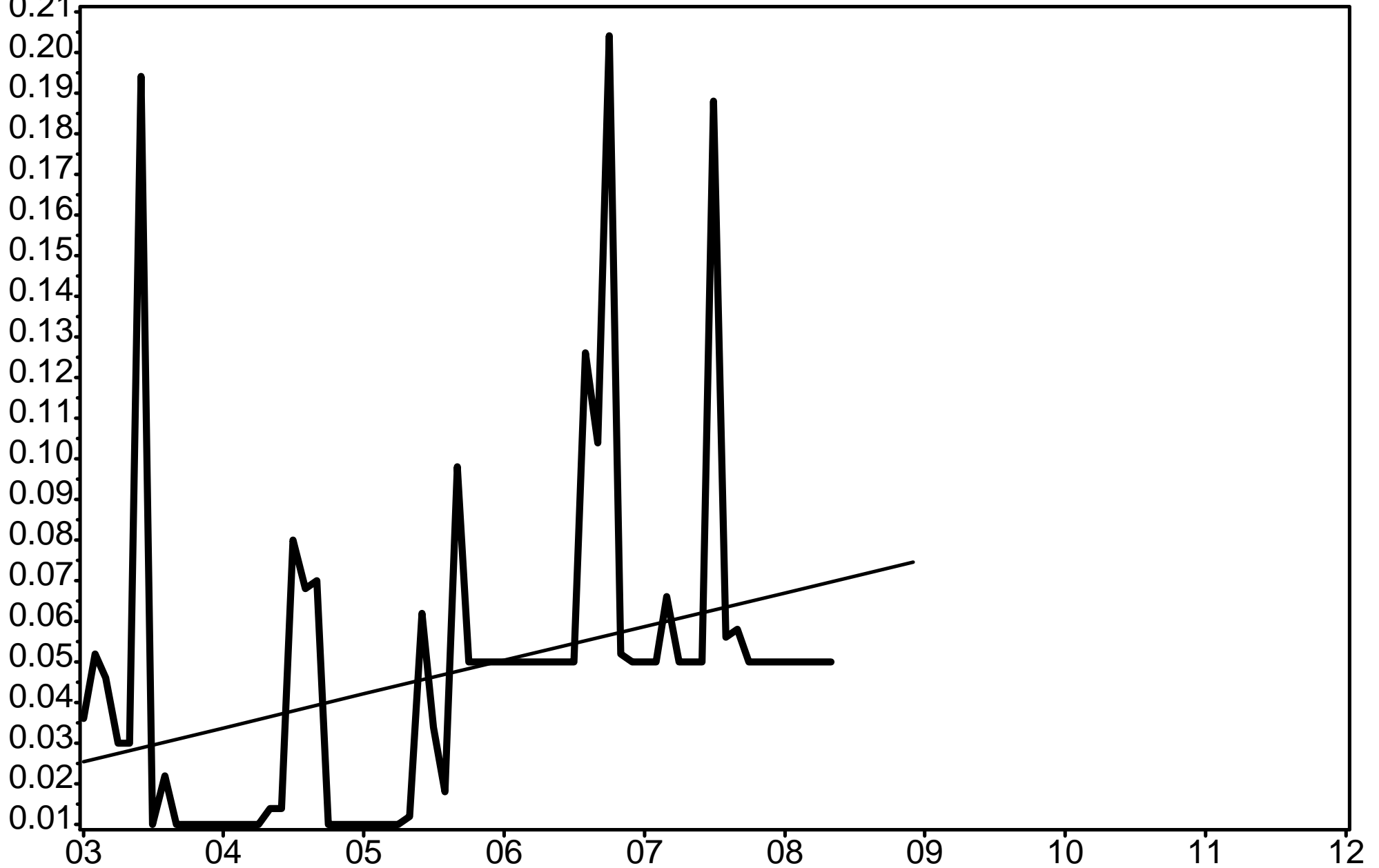
Tidal Myakka Trends Appendix - Display 1921

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Myakka

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



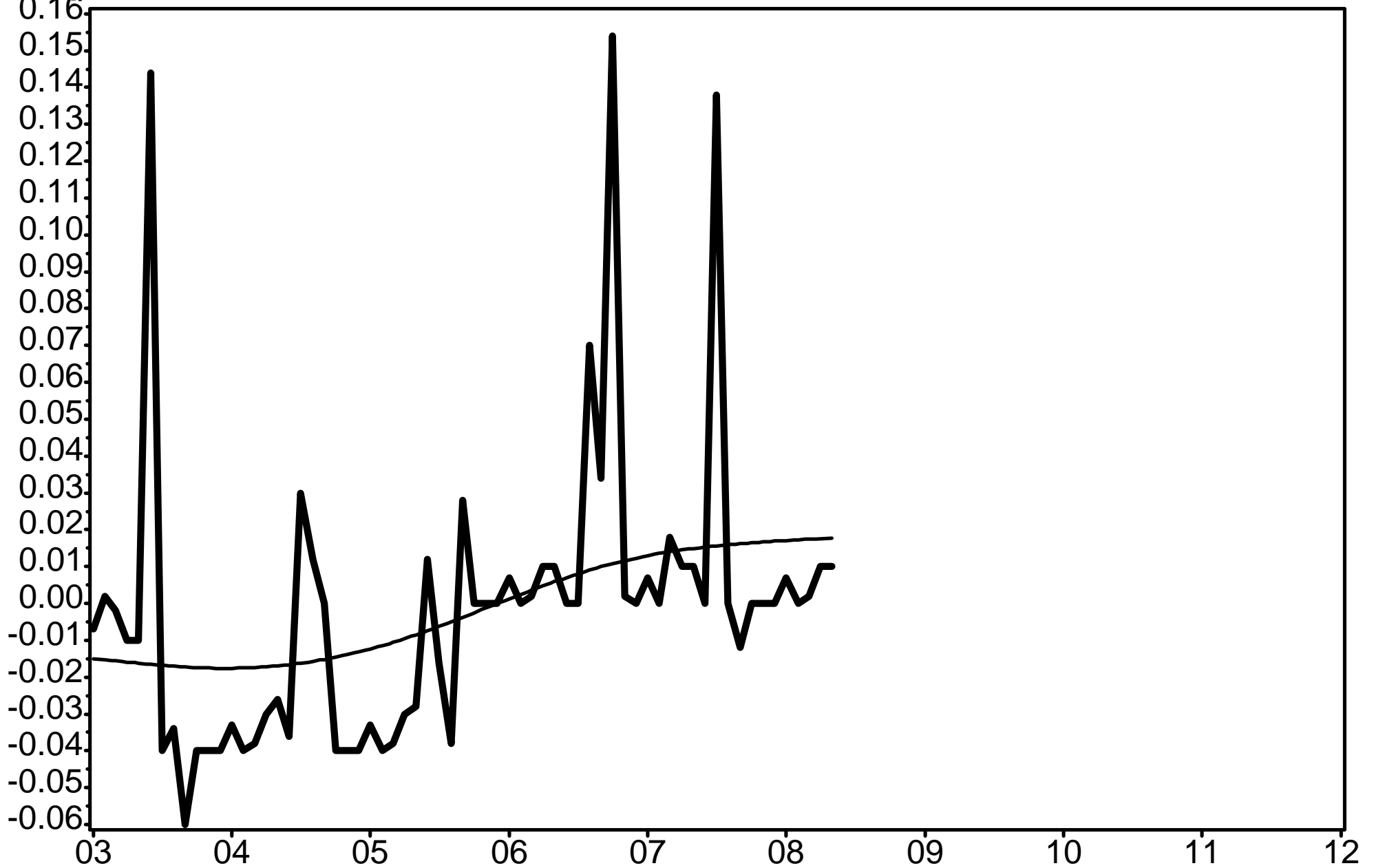
Tidal Myakka Trends Appendix - Display 1922

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
NH3_mgl
(mg/l)

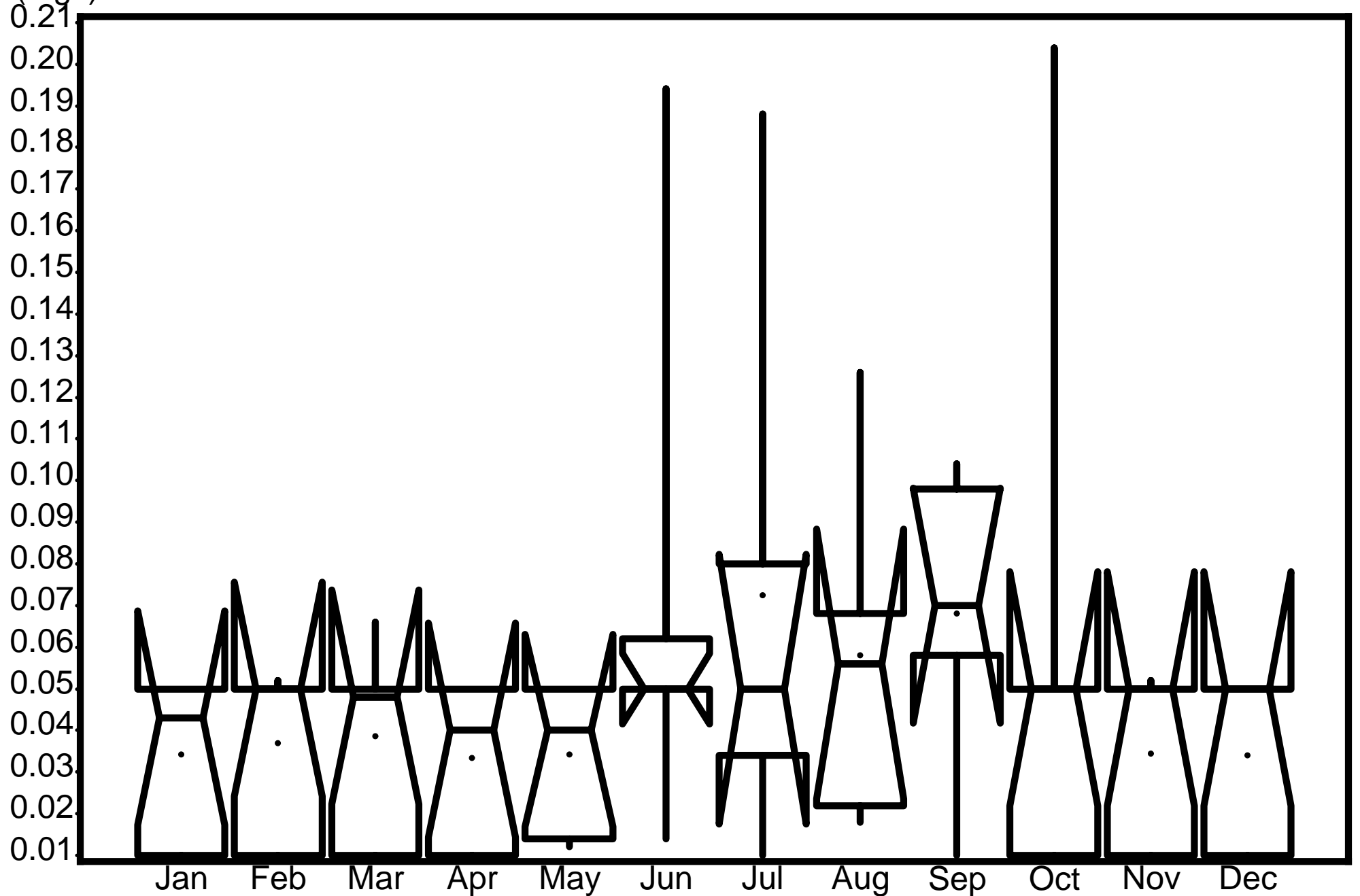


Tidal Myakka Trends Appendix - Display 1923

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Tidal Myakka

NH3_mgl
(mg/l)

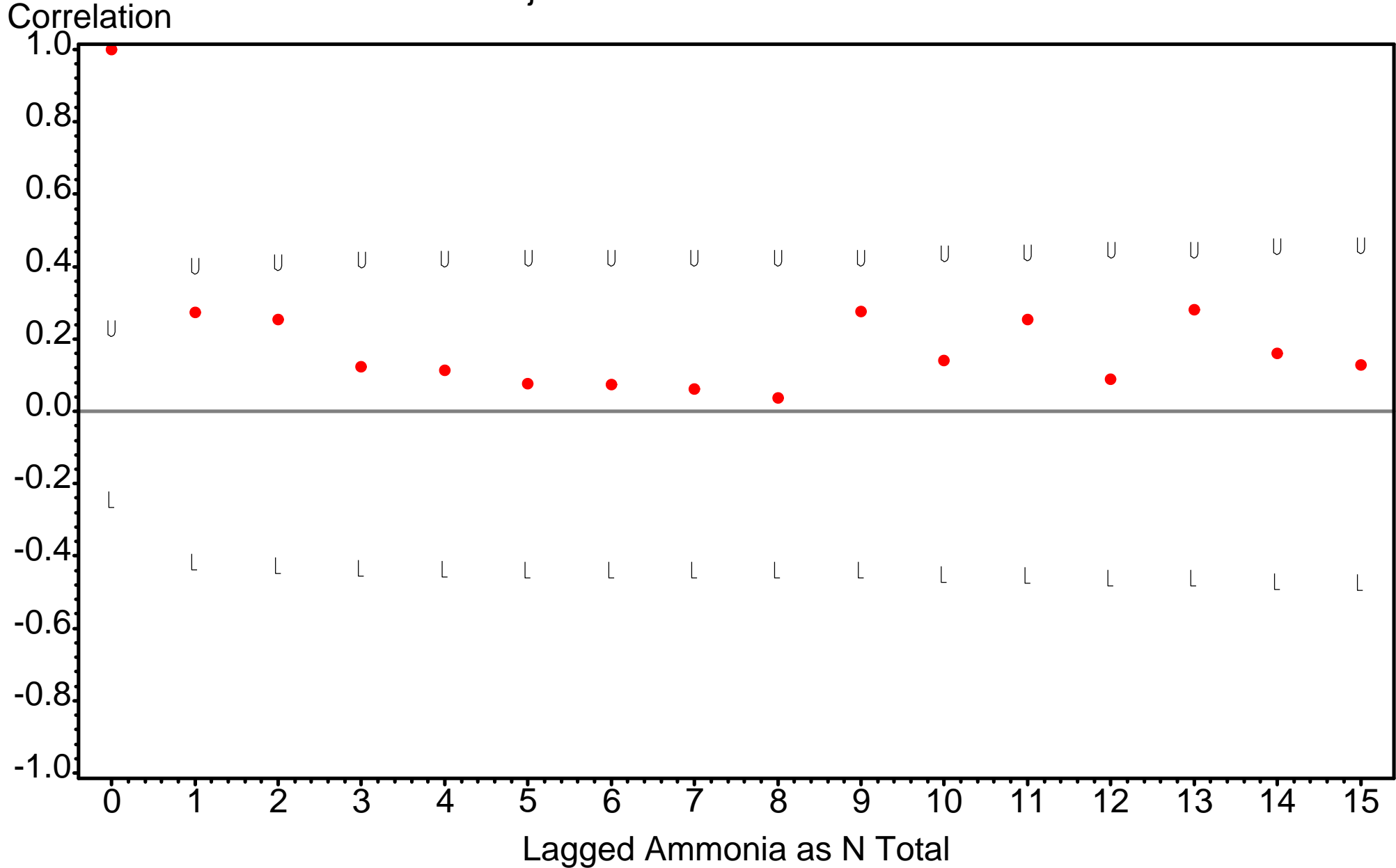


Tidal Myakka Trends Appendix - Display 1924
 Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Myakka

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.273	0.204	0.408	-0.408
2	0.253	0.209	0.418	-0.418
3	0.122	0.213	0.427	-0.427
4	0.113	0.214	0.429	-0.429
5	0.076	0.215	0.430	-0.430
6	0.075	0.216	0.431	-0.431
7	0.061	0.216	0.432	-0.432
8	0.038	0.216	0.432	-0.432
9	0.276	0.216	0.432	-0.432
10	0.141	0.221	0.442	-0.442
11	0.254	0.222	0.445	-0.445
12	0.089	0.226	0.453	-0.453
13	0.280	0.227	0.454	-0.454
14	0.160	0.232	0.463	-0.463
15	0.128	0.233	0.466	-0.466

Tidal Myakka Trends Appendix - Display 1925

Correlogram for Surface Ammonia as N Total in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1926
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.31	0	0	.005

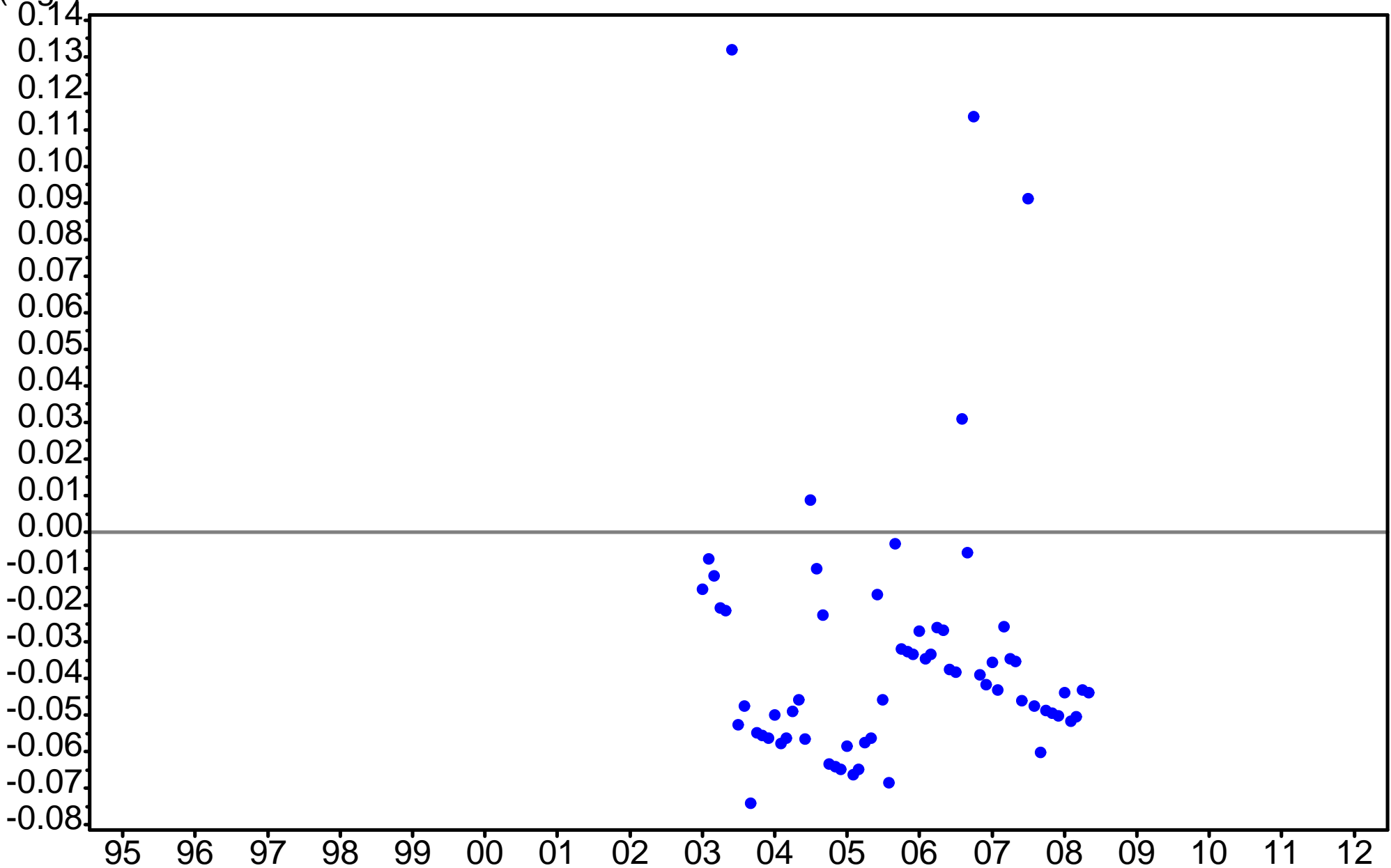
Tidal Myakka Trends Appendix - Display 1927
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.37931	.000359416	0.098511	.0085

Tidal Myakka Trends Appendix - Display 1928

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(mg/l)



Zero Reference Line Shown

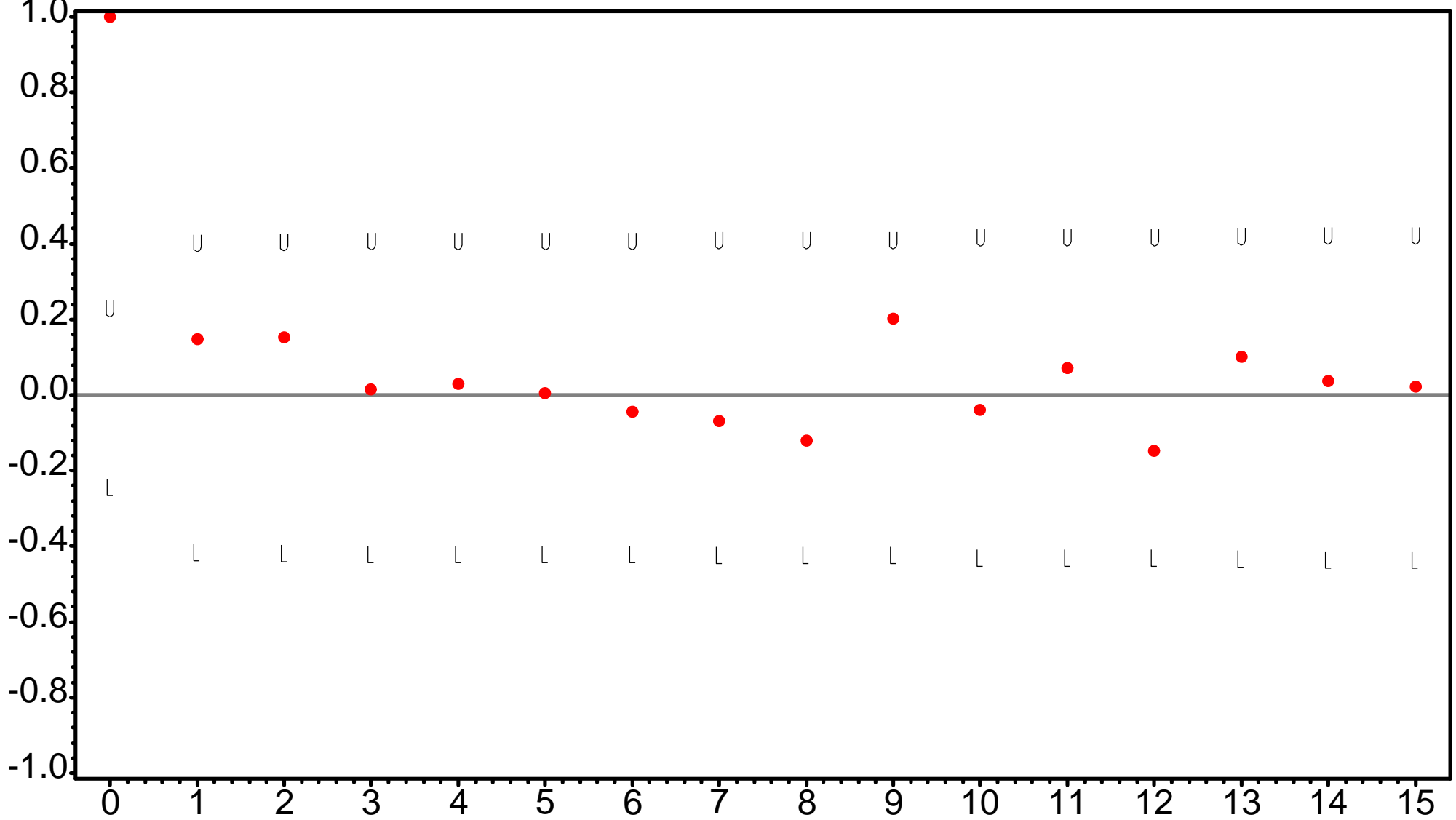
Tidal Myakka Trends Appendix - Display 1929
Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.147	0.204	0.408	-0.408
2	0.152	0.206	0.411	-0.411
3	0.015	0.207	0.414	-0.414
4	0.030	0.207	0.414	-0.414
5	0.006	0.207	0.414	-0.414
6	-0.045	0.207	0.414	-0.414
7	-0.070	0.207	0.415	-0.415
8	-0.121	0.208	0.415	-0.415
9	0.201	0.209	0.417	-0.417
10	-0.039	0.211	0.423	-0.423
11	0.072	0.211	0.423	-0.423
12	-0.147	0.212	0.424	-0.424
13	0.101	0.213	0.426	-0.426
14	0.037	0.214	0.428	-0.428
15	0.023	0.214	0.428	-0.428

Tidal Myakka Trends Appendix - Display 1930

Correlogram for Surface Ammonia as N Total in Tidal Myakka Adjusted for Seasonal Median and Detrended

Correlation

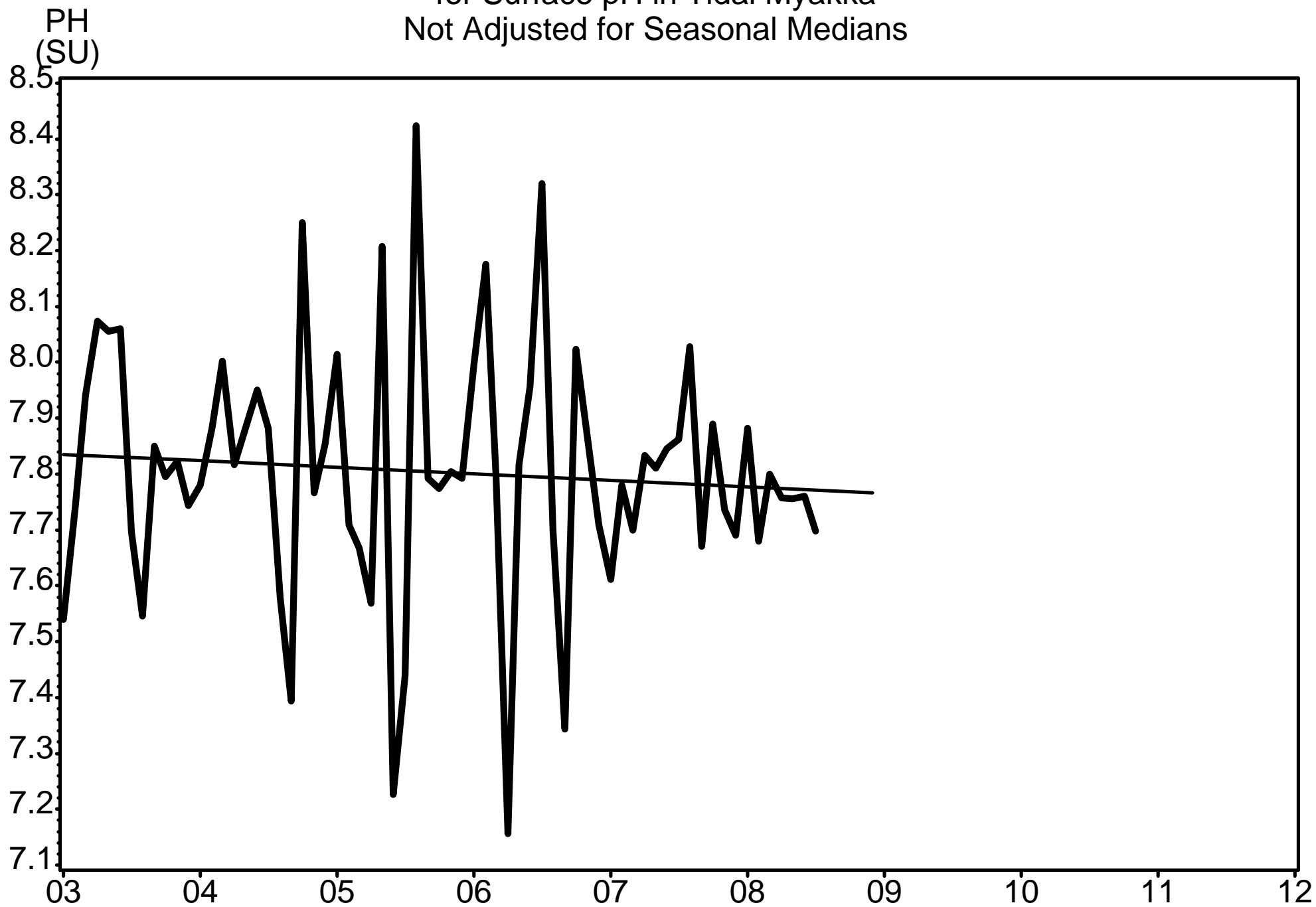


Lagged Ammonia as N Total

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1931

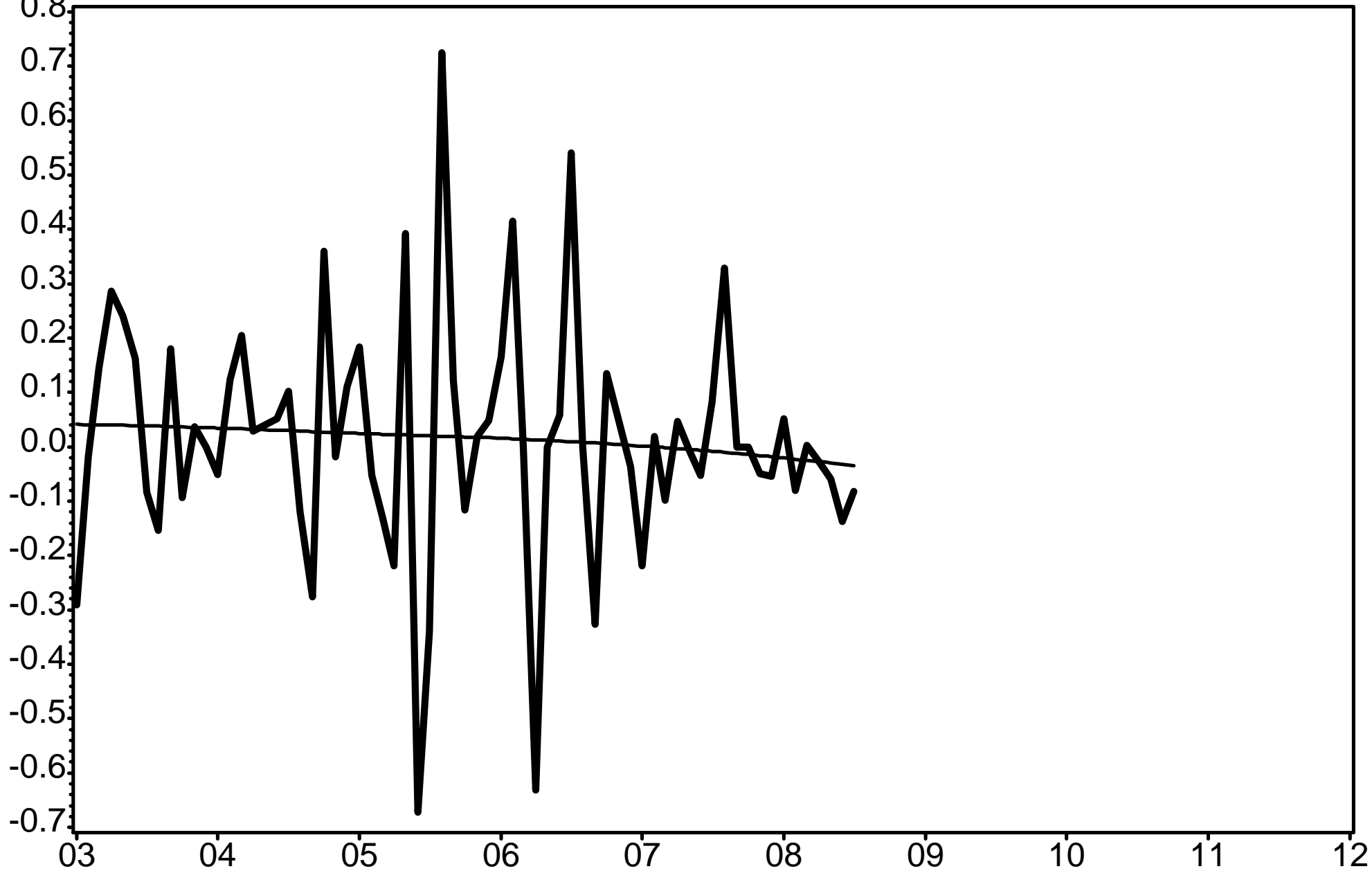
Monthly Data Time Series
for Surface pH in Tidal Myakka
Not Adjusted for Seasonal Medians



Tidal Myakka Trends Appendix - Display 1932

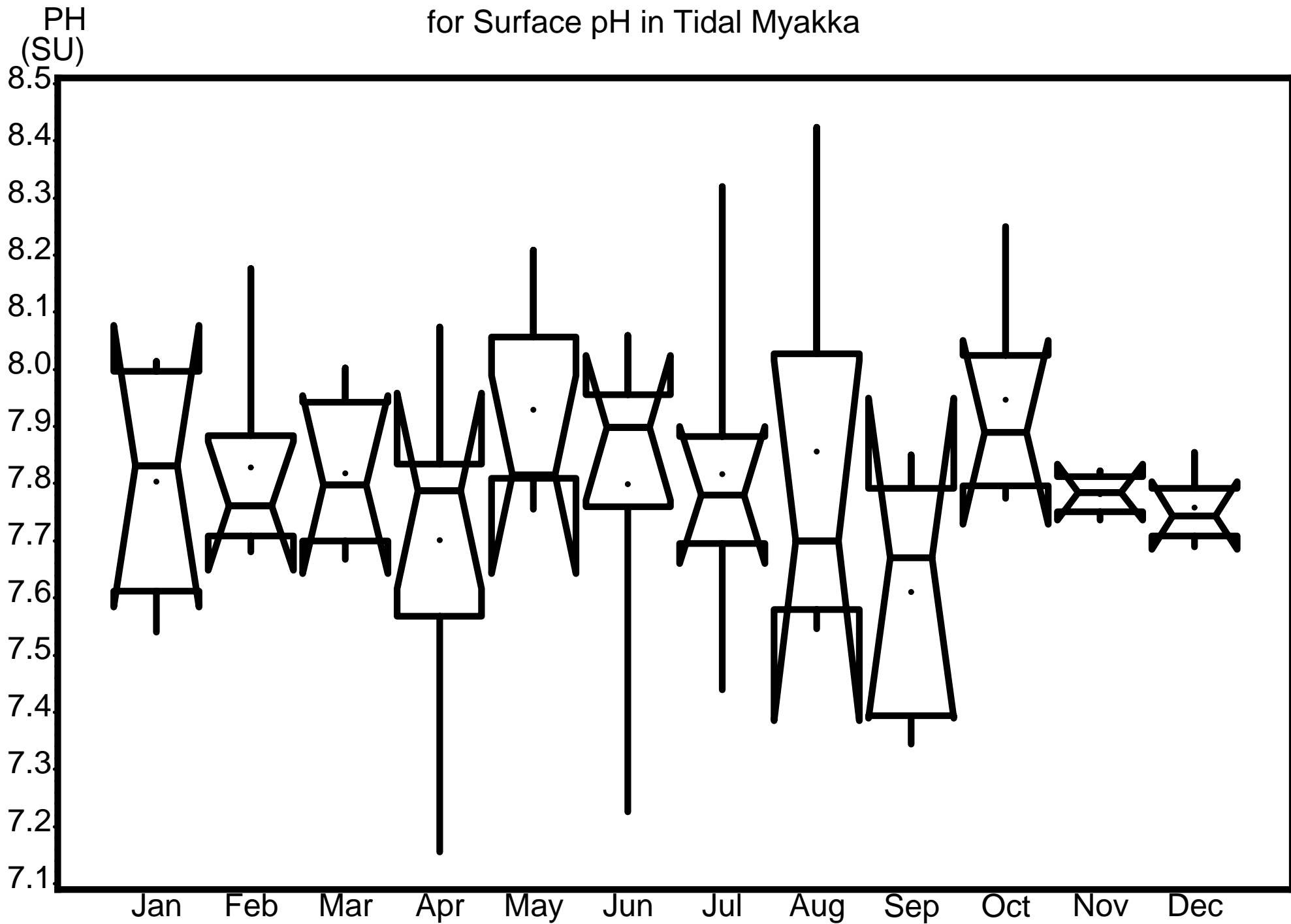
Monthly Data Time Series
for Surface pH in Tidal Myakka
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Tidal Myakka Trends Appendix - Display 1933

Seasonal Univariate Statistics
for Surface pH in Tidal Myakka

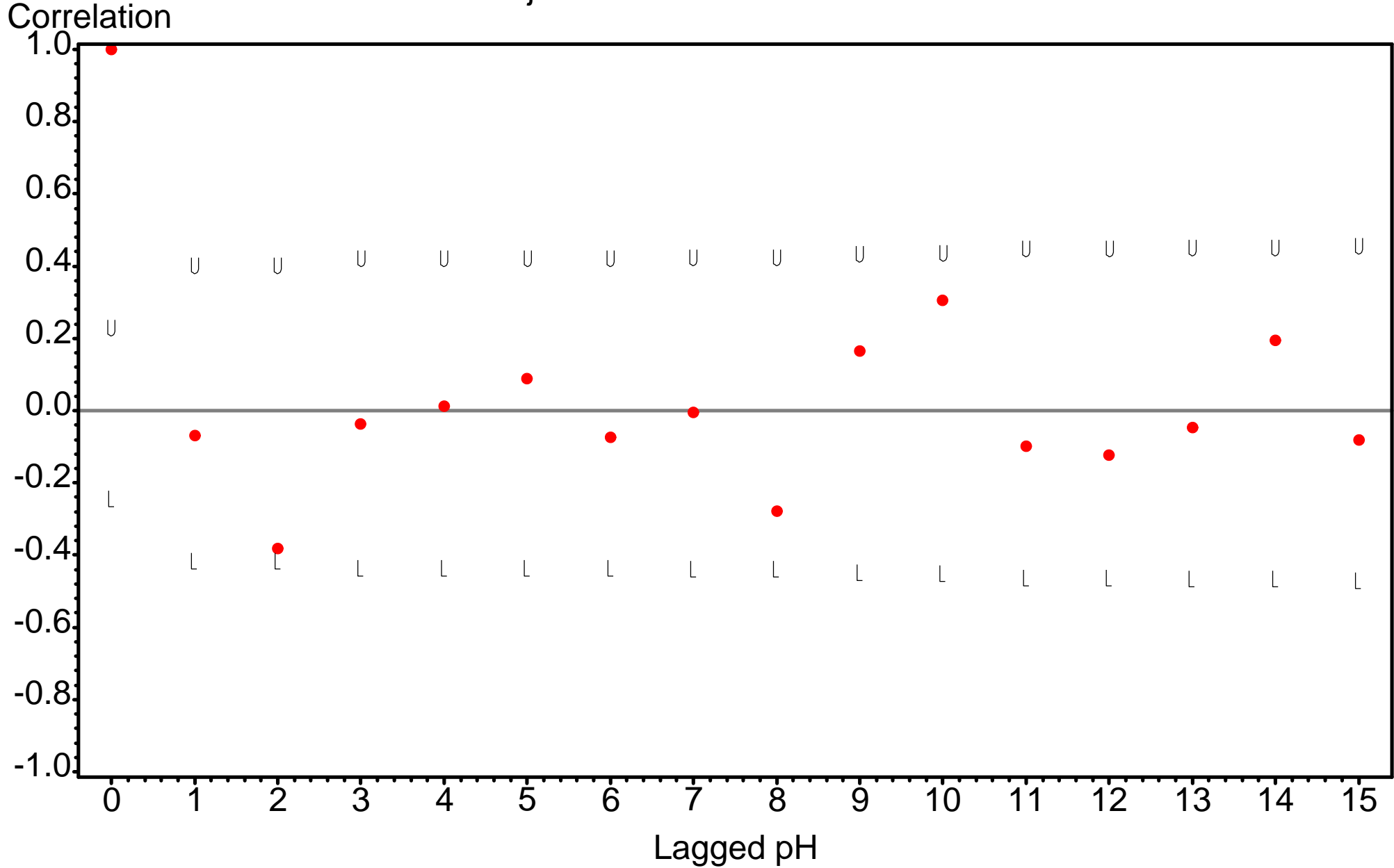


Tidal Myakka Trends Appendix - Display 1934
Autocorrelation Statistics for Surface pH in Tidal Myakka

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.068	0.204	0.408	-0.408
2	-0.381	0.204	0.409	-0.409
3	-0.036	0.214	0.428	-0.428
4	0.013	0.214	0.428	-0.428
5	0.088	0.214	0.428	-0.428
6	-0.073	0.215	0.429	-0.429
7	-0.004	0.215	0.430	-0.430
8	-0.278	0.215	0.430	-0.430
9	0.165	0.220	0.440	-0.440
10	0.305	0.222	0.443	-0.443
11	-0.098	0.227	0.455	-0.455
12	-0.123	0.228	0.456	-0.456
13	-0.046	0.229	0.458	-0.458
14	0.194	0.229	0.458	-0.458
15	-0.080	0.231	0.463	-0.463

Tidal Myakka Trends Appendix - Display 1935

Correlogram for Surface pH in Tidal Myakka
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1936
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.077	0.365	0.365	-0.013

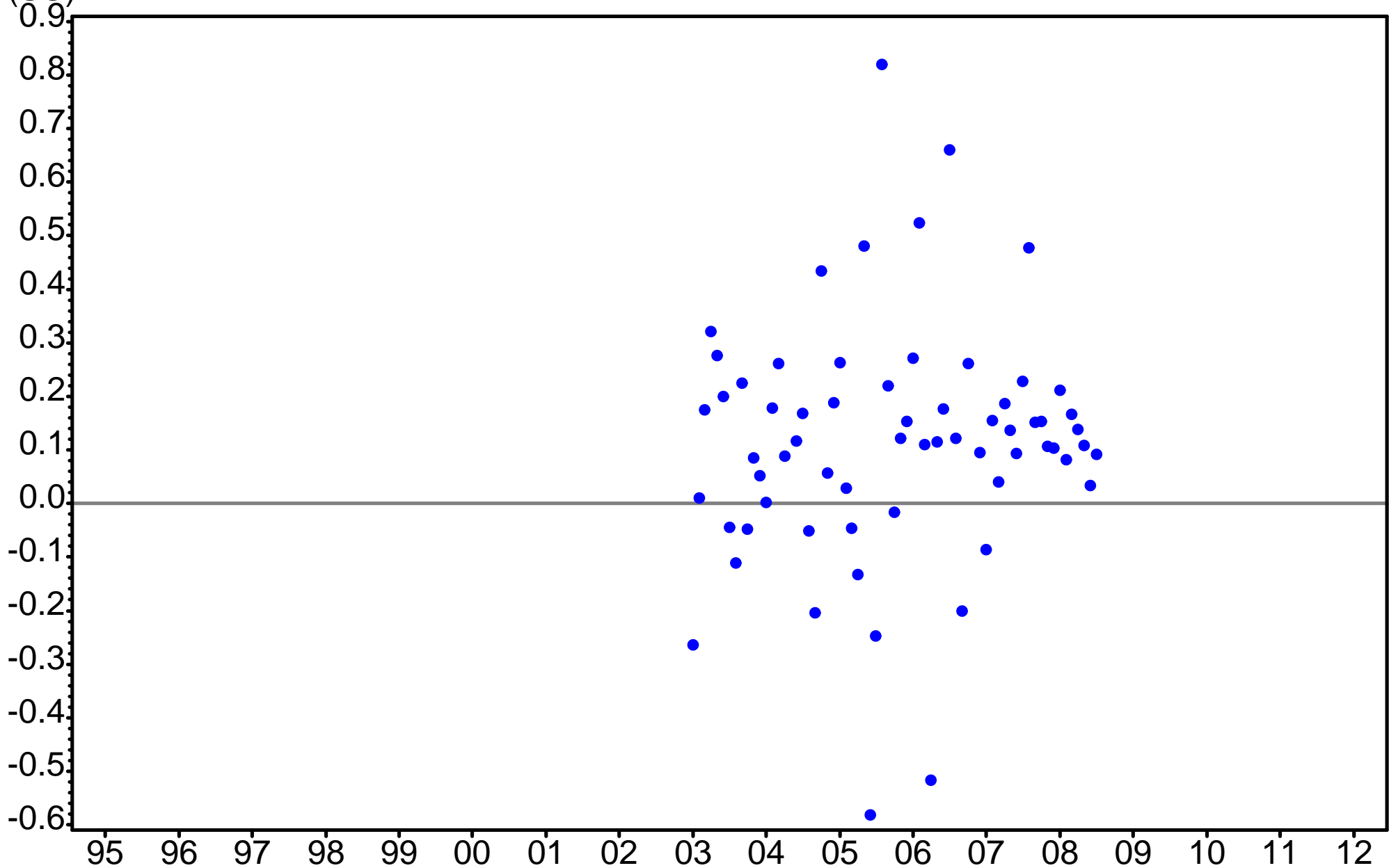
Tidal Myakka Trends Appendix - Display 1937
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.20548	0.073193	0.060855	-0.0267

Tidal Myakka Trends Appendix - Display 1938

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(SU)



Zero Reference Line Shown

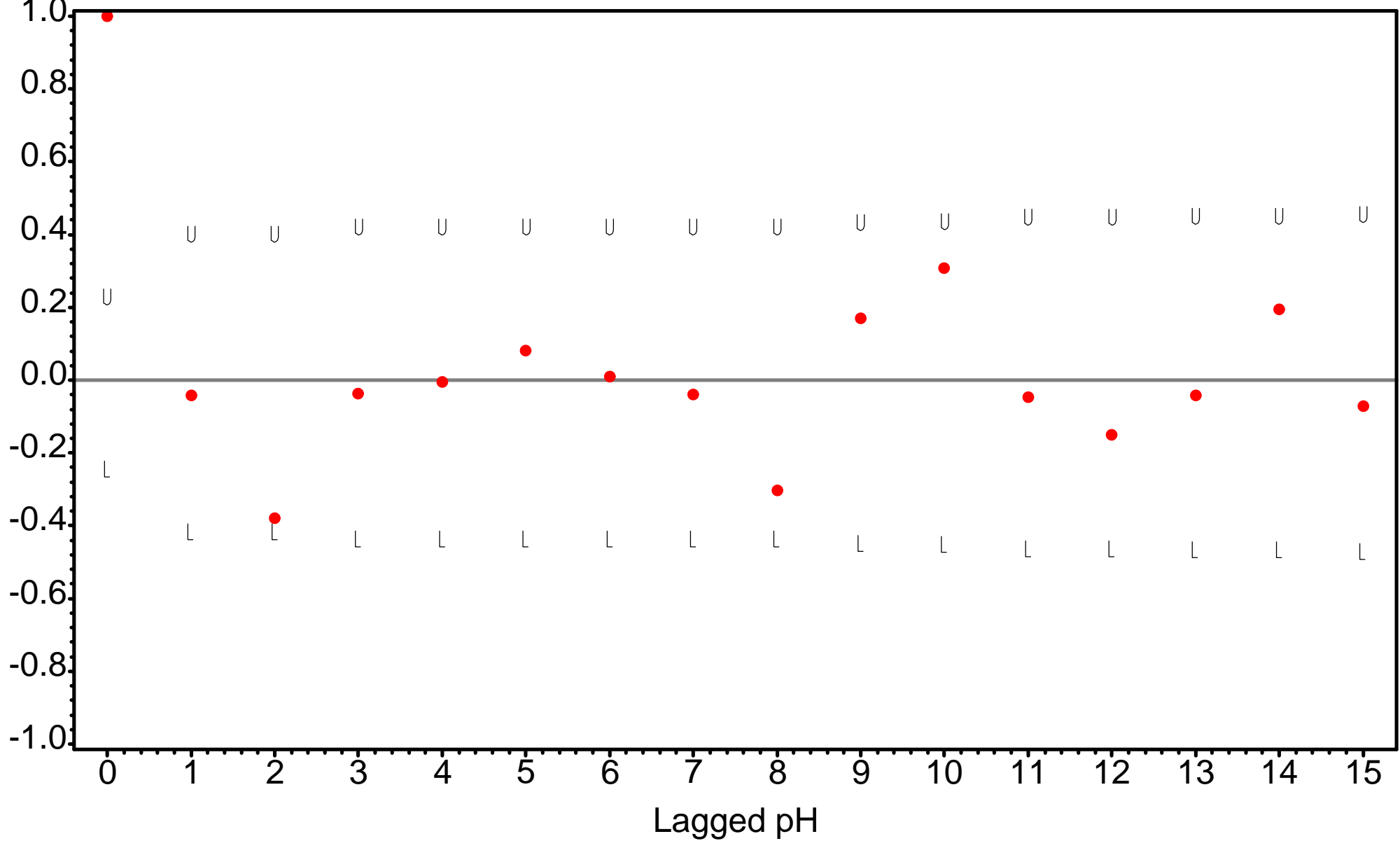
Tidal Myakka Trends Appendix - Display 1939
Autocorrelation Statistics for Surface pH in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.042	0.204	0.408	-0.408
2	-0.379	0.204	0.408	-0.408
3	-0.037	0.214	0.428	-0.428
4	-0.006	0.214	0.428	-0.428
5	0.081	0.214	0.428	-0.428
6	0.009	0.214	0.429	-0.429
7	-0.039	0.214	0.429	-0.429
8	-0.303	0.214	0.429	-0.429
9	0.169	0.220	0.441	-0.441
10	0.308	0.222	0.444	-0.444
11	-0.047	0.228	0.456	-0.456
12	-0.150	0.228	0.456	-0.456
13	-0.043	0.229	0.459	-0.459
14	0.194	0.230	0.459	-0.459
15	-0.072	0.232	0.464	-0.464

Tidal Myakka Trends Appendix - Display 1940

Correlogram for Surface pH in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Correlation

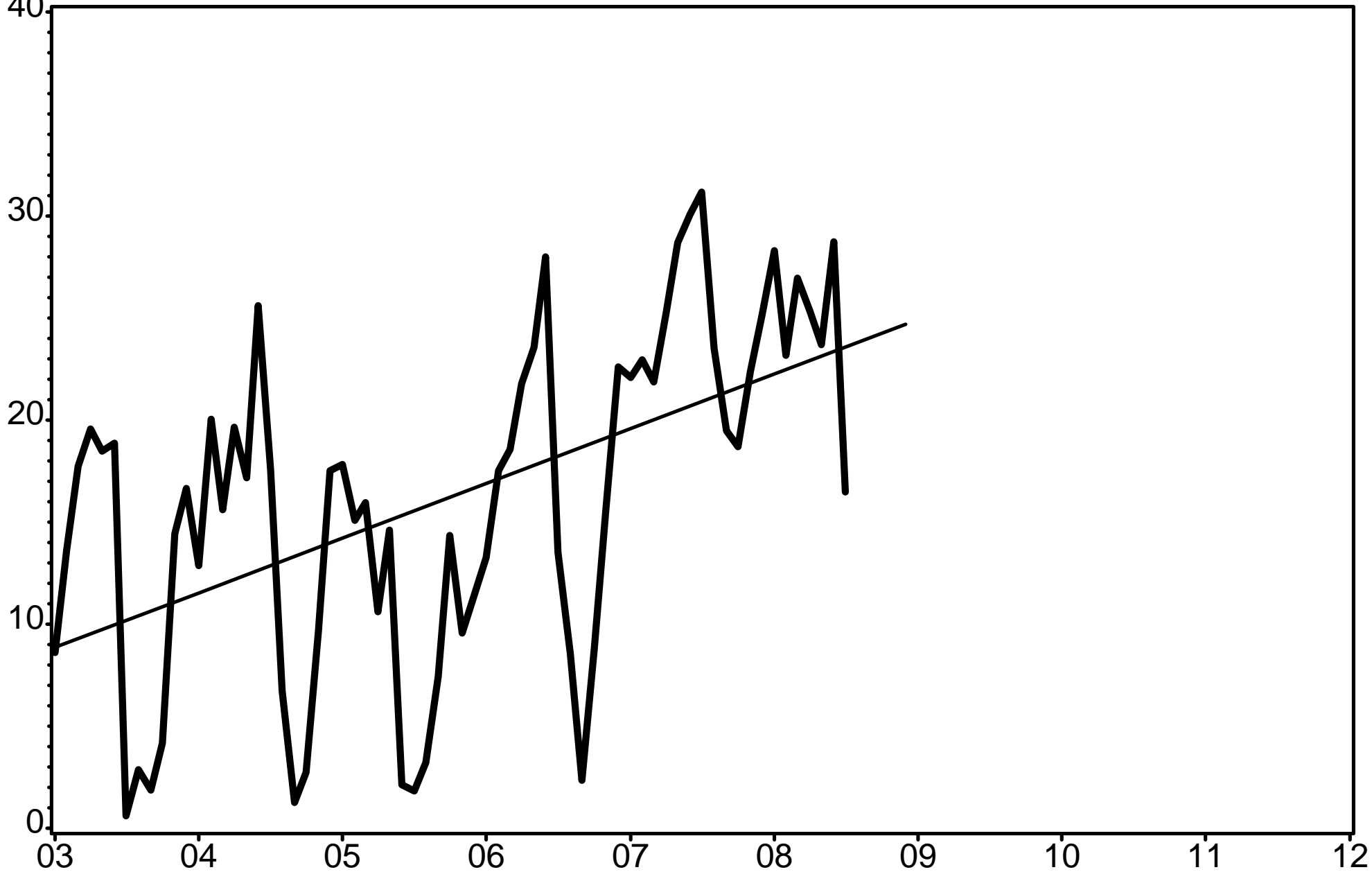


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1941

Monthly Data Time Series
for Surface Salinity in Tidal Myakka
Not Adjusted for Seasonal Medians

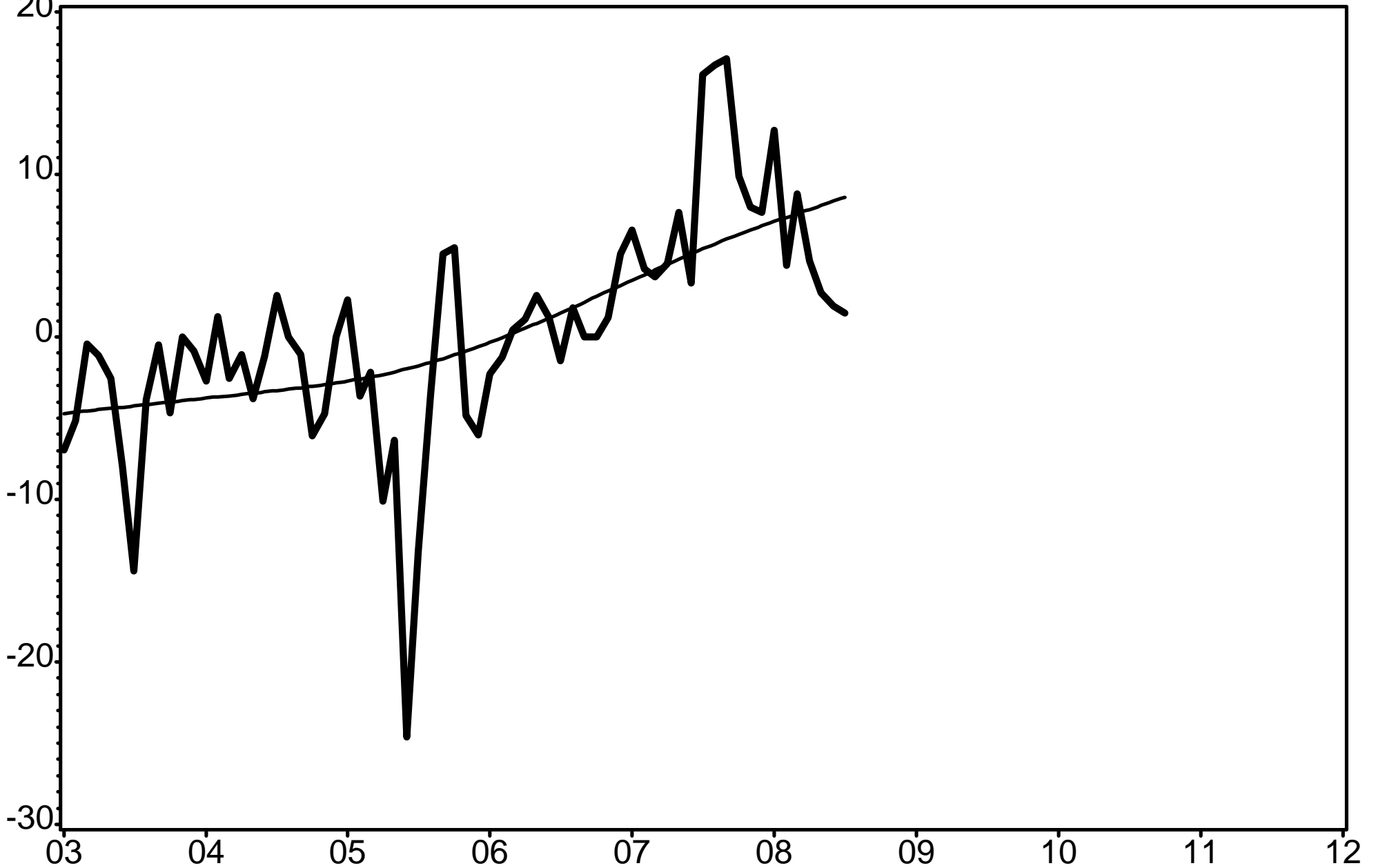
Salinity
(ppt)



Tidal Myakka Trends Appendix - Display 1942

Monthly Data Time Series
for Surface Salinity in Tidal Myakka
Adjusted for Seasonal Medians

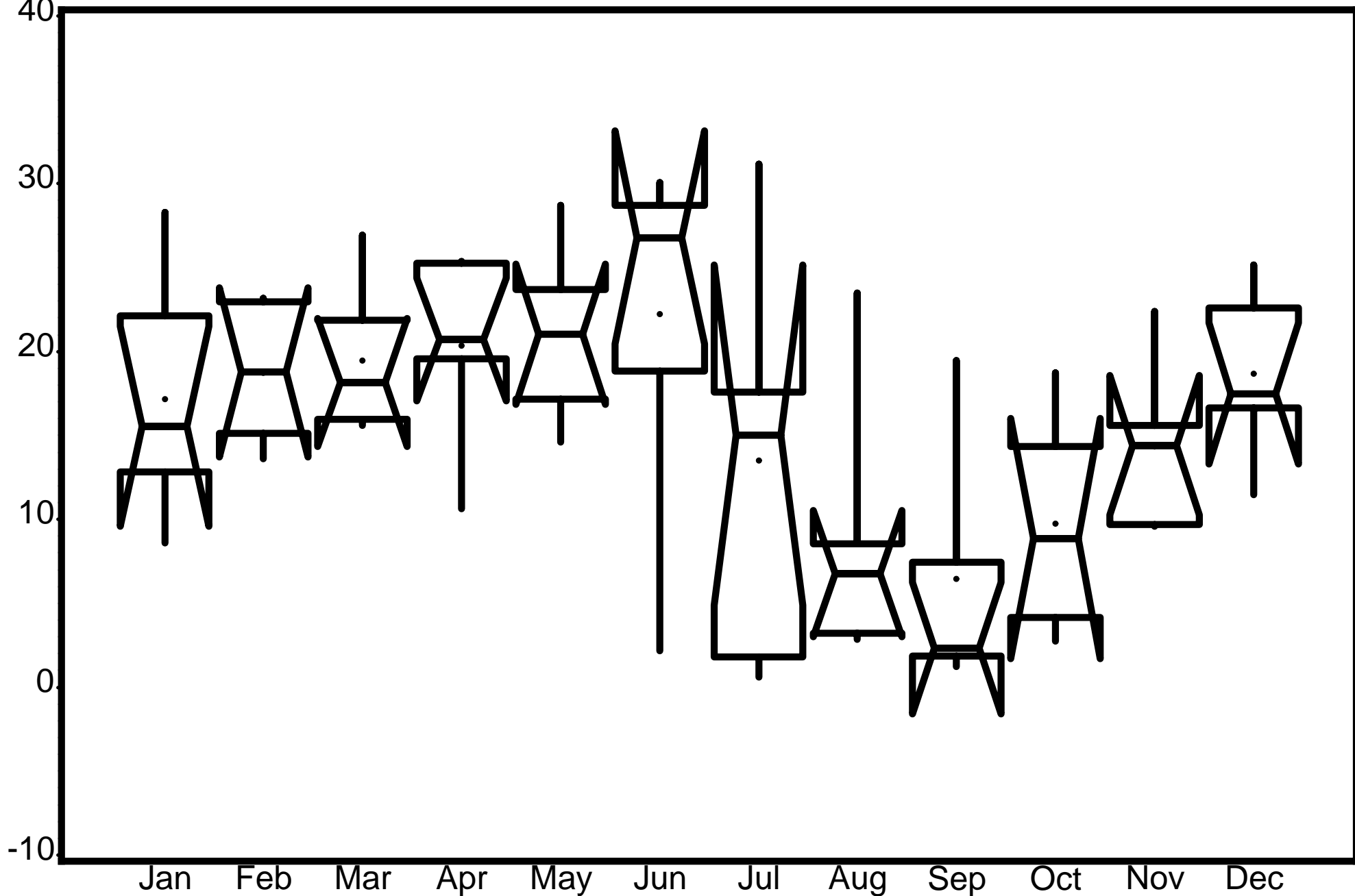
Adjusted
Salinity
(ppt)



Tidal Myakka Trends Appendix - Display 1943

Seasonal Univariate Statistics for Surface Salinity in Tidal Myakka

Salinity
(ppt)



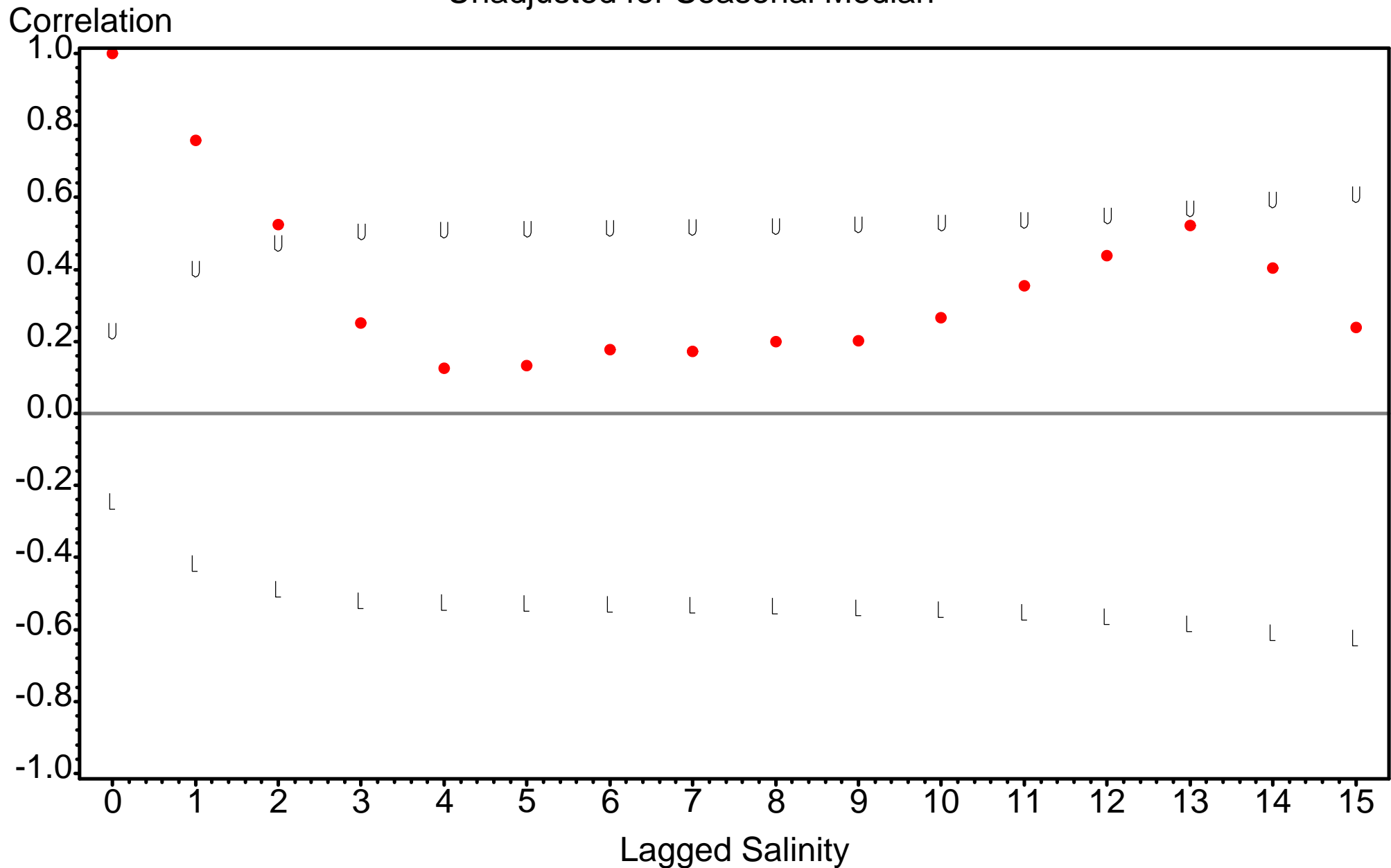
Tidal Myakka Trends Appendix - Display 1944

Autocorrelation Statistics for Surface Salinity in Tidal Myakka

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.759	0.204	0.408	-0.408
2	0.525	0.240	0.480	-0.480
3	0.252	0.256	0.511	-0.511
4	0.125	0.259	0.518	-0.518
5	0.134	0.260	0.520	-0.520
6	0.177	0.261	0.522	-0.522
7	0.173	0.262	0.525	-0.525
8	0.200	0.264	0.528	-0.528
9	0.202	0.266	0.532	-0.532
10	0.266	0.268	0.537	-0.537
11	0.354	0.272	0.544	-0.544
12	0.438	0.278	0.556	-0.556
13	0.523	0.288	0.575	-0.575
14	0.404	0.301	0.601	-0.601
15	0.239	0.308	0.616	-0.616

Tidal Myakka Trends Appendix - Display 1945

Correlogram for Surface Salinity in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1946
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.379	0	0	2.636

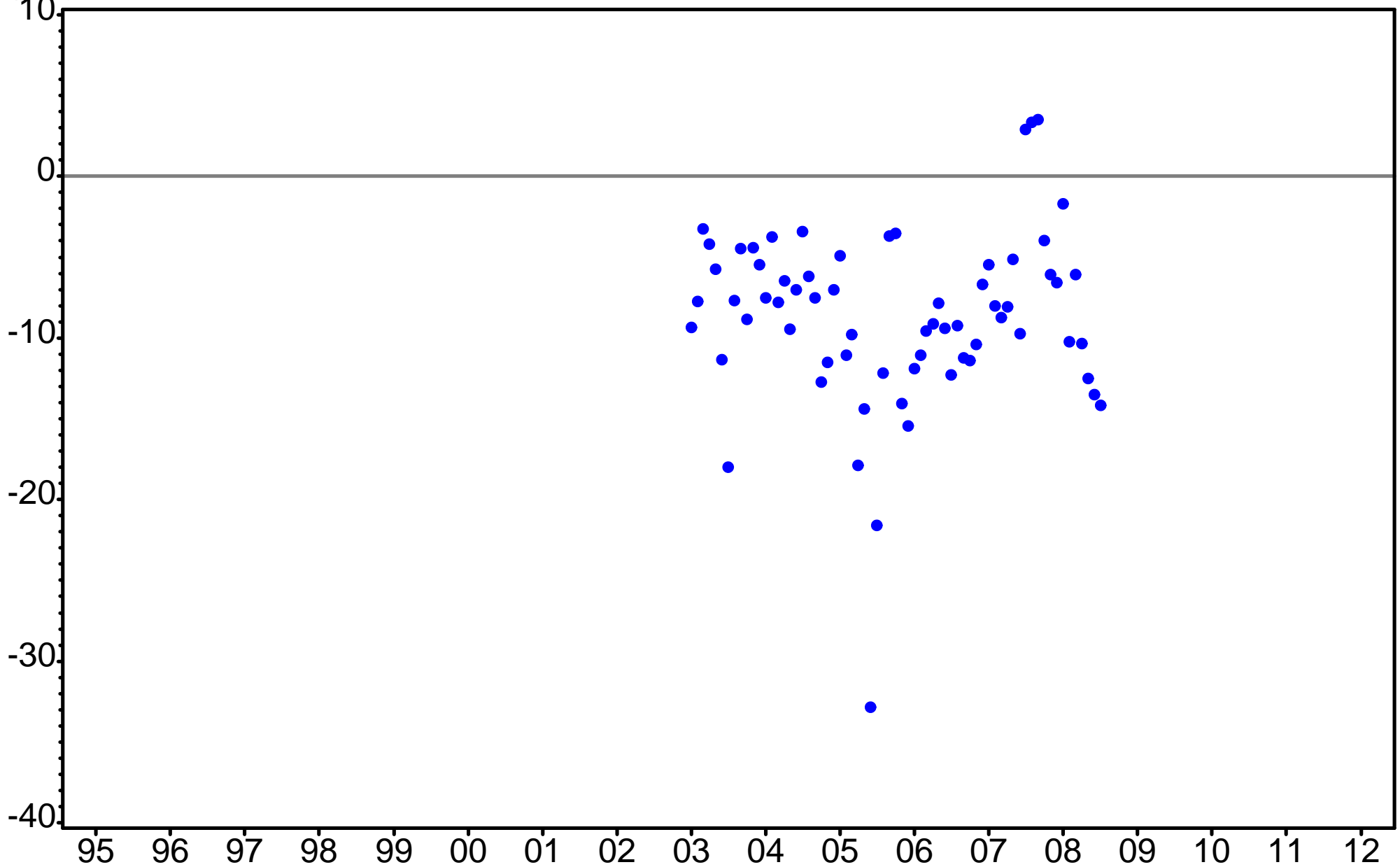
Tidal Myakka Trends Appendix - Display 1947
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.63871	0	0.032350	2.404

Tidal Myakka Trends Appendix - Display 1948

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(ppt)



Zero Reference Line Shown

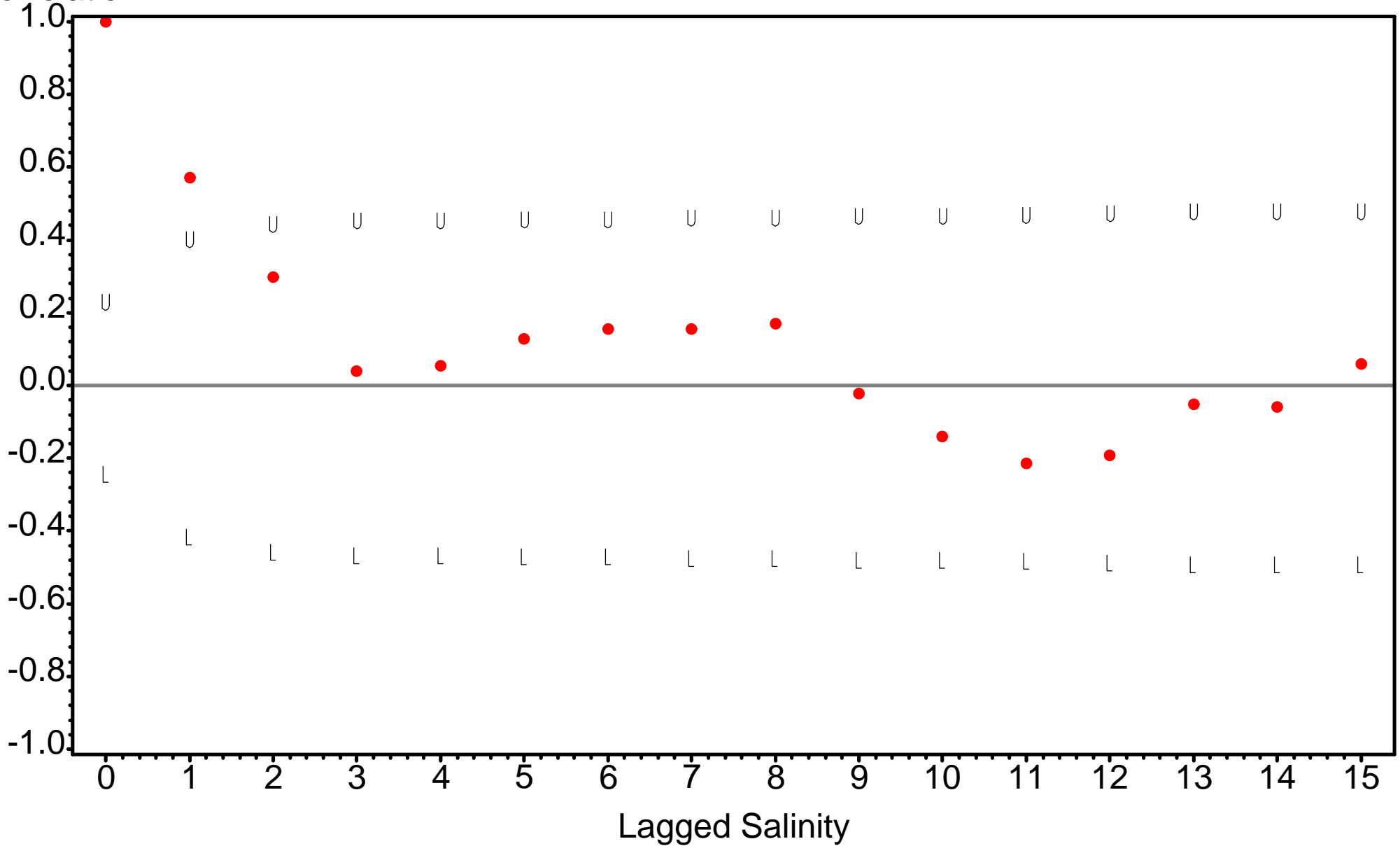
Tidal Myakka Trends Appendix - Display 1949
Autocorrelation Statistics for Surface Salinity in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.571	0.204	0.408	-0.408
2	0.298	0.225	0.450	-0.450
3	0.040	0.231	0.461	-0.461
4	0.054	0.231	0.461	-0.461
5	0.129	0.231	0.462	-0.462
6	0.154	0.232	0.464	-0.464
7	0.154	0.233	0.467	-0.467
8	0.169	0.235	0.469	-0.469
9	-0.023	0.236	0.473	-0.473
10	-0.141	0.236	0.473	-0.473
11	-0.214	0.238	0.475	-0.475
12	-0.193	0.240	0.481	-0.481
13	-0.052	0.242	0.485	-0.485
14	-0.058	0.243	0.485	-0.485
15	0.058	0.243	0.486	-0.486

Tidal Myakka Trends Appendix - Display 1950

Correlogram for Surface Salinity in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Correlation

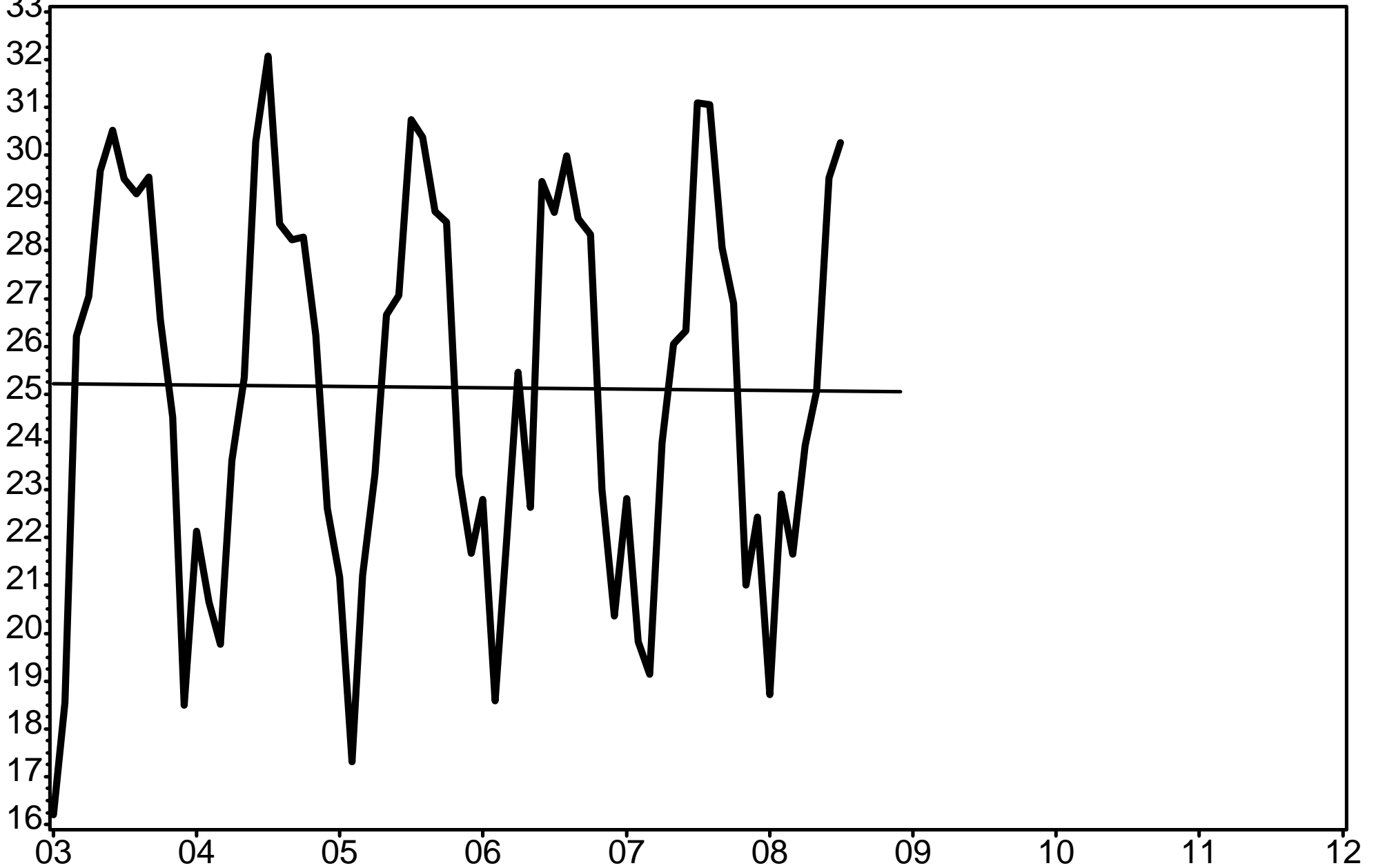


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1951

Monthly Data Time Series
for Surface Temperature in Tidal Myakka
Not Adjusted for Seasonal Medians

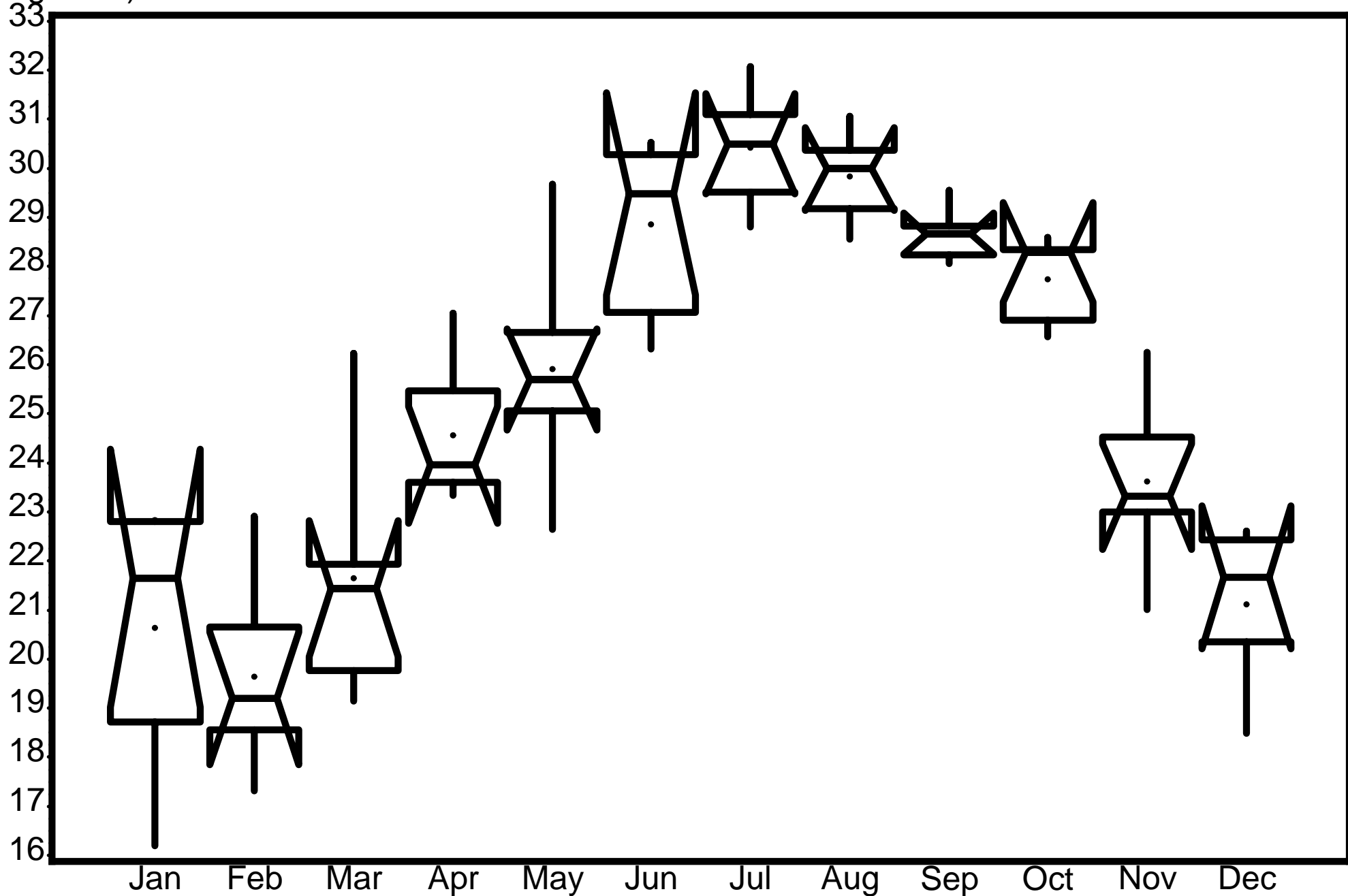
TEMP_C
(Degree C)



Tidal Myakka Trends Appendix - Display 1953

Seasonal Univariate Statistics
for Surface Temperature in Tidal Myakka

TEMP_C
(Degree C)



Tidal Myakka Trends Appendix - Display 1954

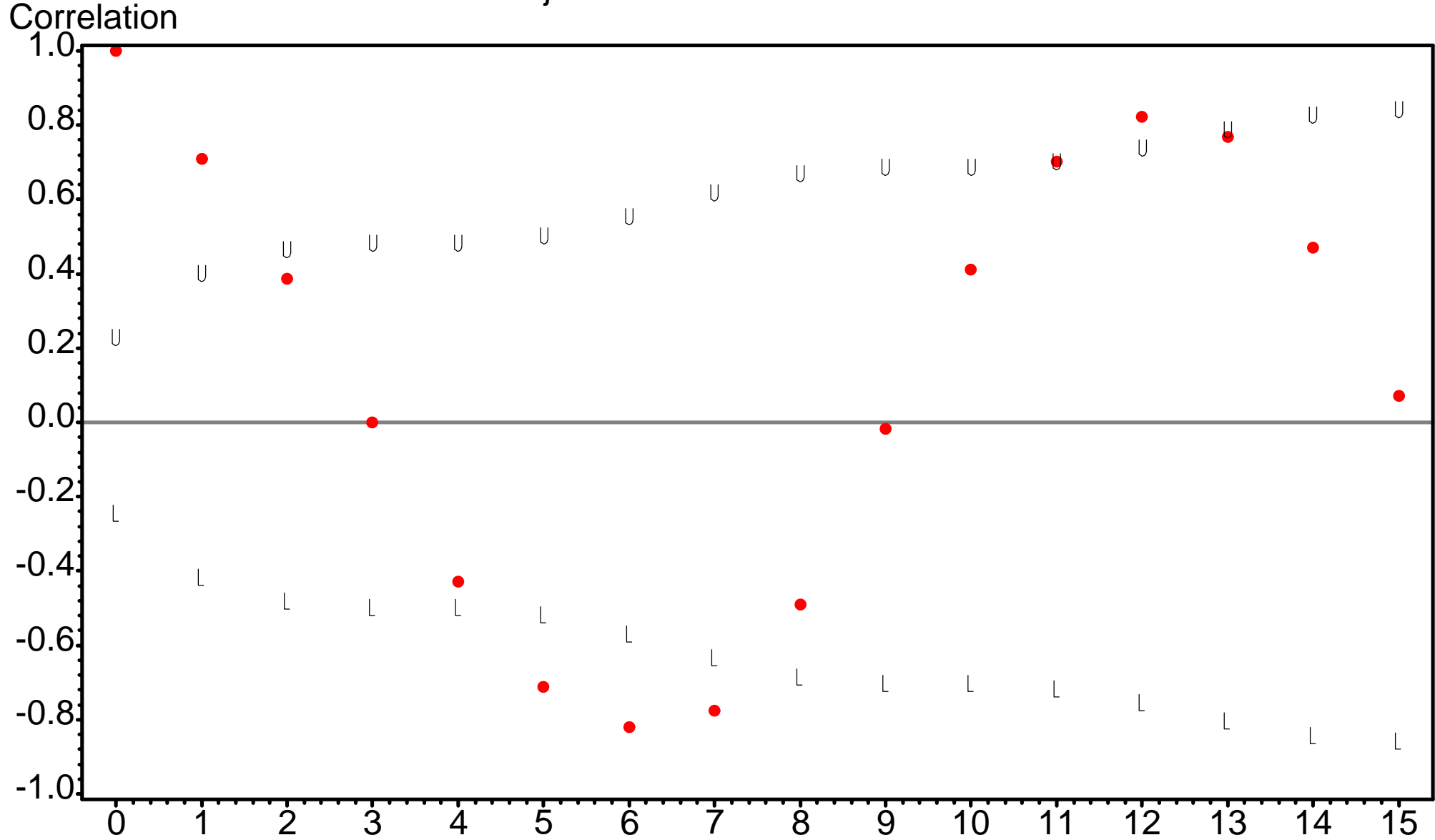
Autocorrelation Statistics for Surface Temperature in Tidal Myakka

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.709	0.204	0.408	-0.408
2	0.386	0.236	0.472	-0.472
3	0.001	0.244	0.489	-0.489
4	-0.428	0.244	0.489	-0.489
5	-0.711	0.255	0.509	-0.509
6	-0.819	0.281	0.562	-0.562
7	-0.775	0.312	0.625	-0.625
8	-0.490	0.338	0.676	-0.676
9	-0.017	0.348	0.695	-0.695
10	0.410	0.348	0.695	-0.695
11	0.701	0.354	0.709	-0.709
12	0.822	0.373	0.746	-0.746
13	0.767	0.397	0.795	-0.795
14	0.471	0.418	0.835	-0.835
15	0.071	0.425	0.850	-0.850

Tidal Myakka Trends Appendix - Display 1955

Correlogram for Surface Temperature in Tidal Myakka

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1956
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.018	0.837	0.837	-0.072

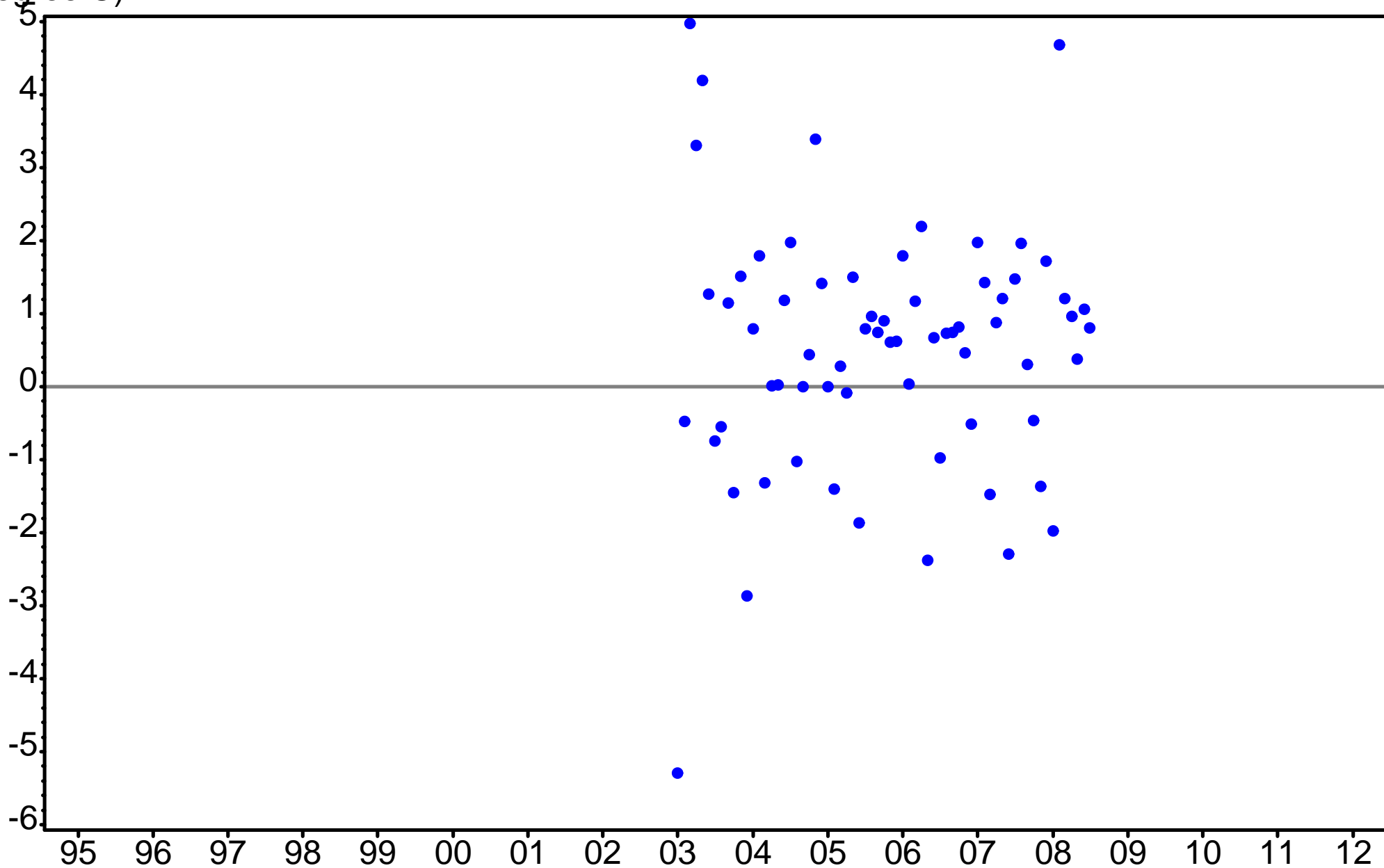
Tidal Myakka Trends Appendix - Display 1957
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.083871	0.47460	0.095026	-0.16

Tidal Myakka Trends Appendix - Display 1958

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(Degree C)



Zero Reference Line Shown

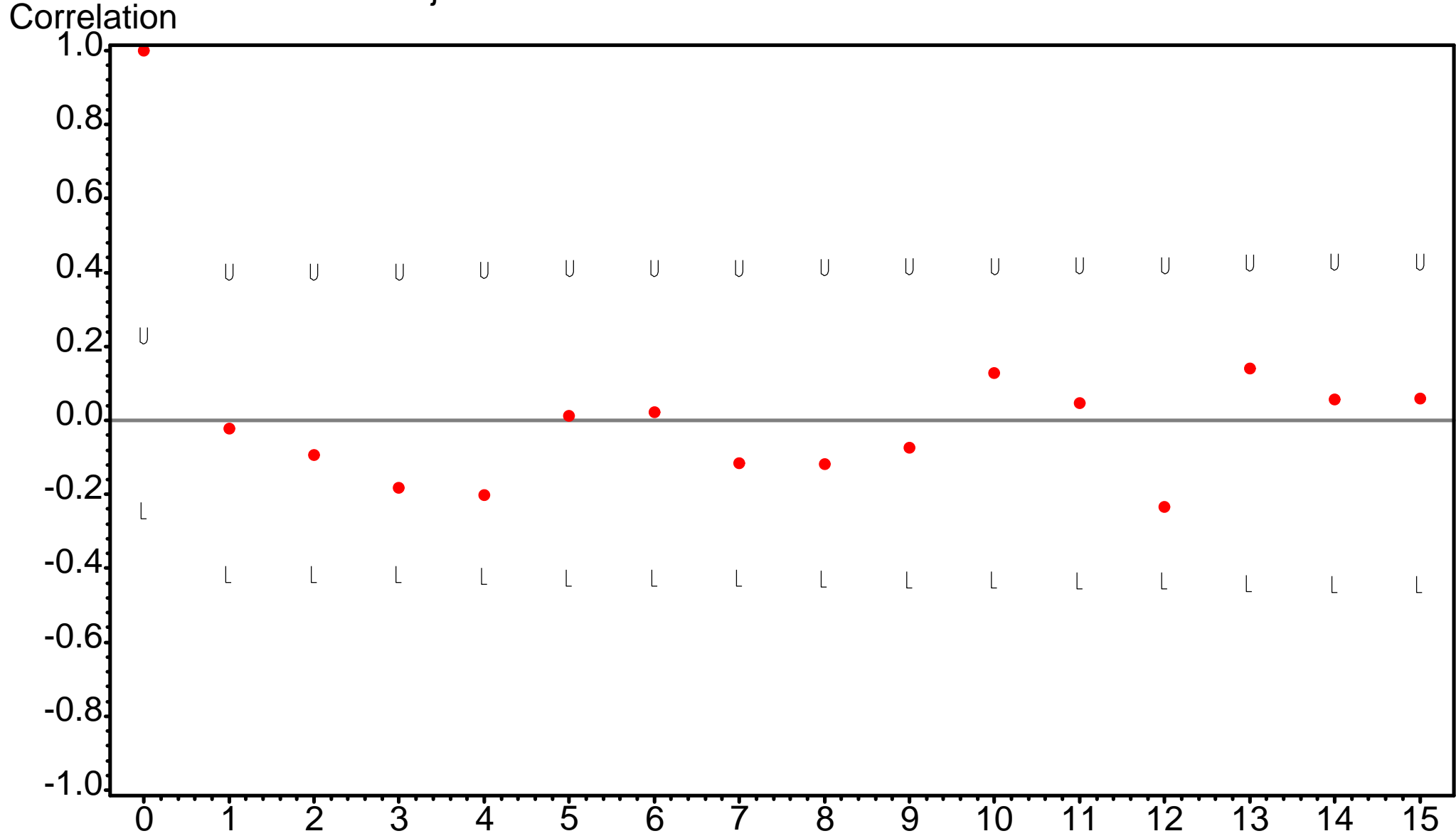
Tidal Myakka Trends Appendix - Display 1959
Autocorrelation Statistics for Surface Temperature in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.023	0.204	0.408	-0.408
2	-0.093	0.204	0.408	-0.408
3	-0.181	0.205	0.409	-0.409
4	-0.203	0.207	0.414	-0.414
5	0.012	0.210	0.419	-0.419
6	0.022	0.210	0.419	-0.419
7	-0.116	0.210	0.419	-0.419
8	-0.117	0.211	0.421	-0.421
9	-0.074	0.212	0.423	-0.423
10	0.127	0.212	0.424	-0.424
11	0.046	0.213	0.426	-0.426
12	-0.235	0.213	0.426	-0.426
13	0.140	0.217	0.433	-0.433
14	0.057	0.218	0.436	-0.436
15	0.059	0.218	0.436	-0.436

Tidal Myakka Trends Appendix - Display 1960

Correlogram for Surface Temperature in Tidal Myakka

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

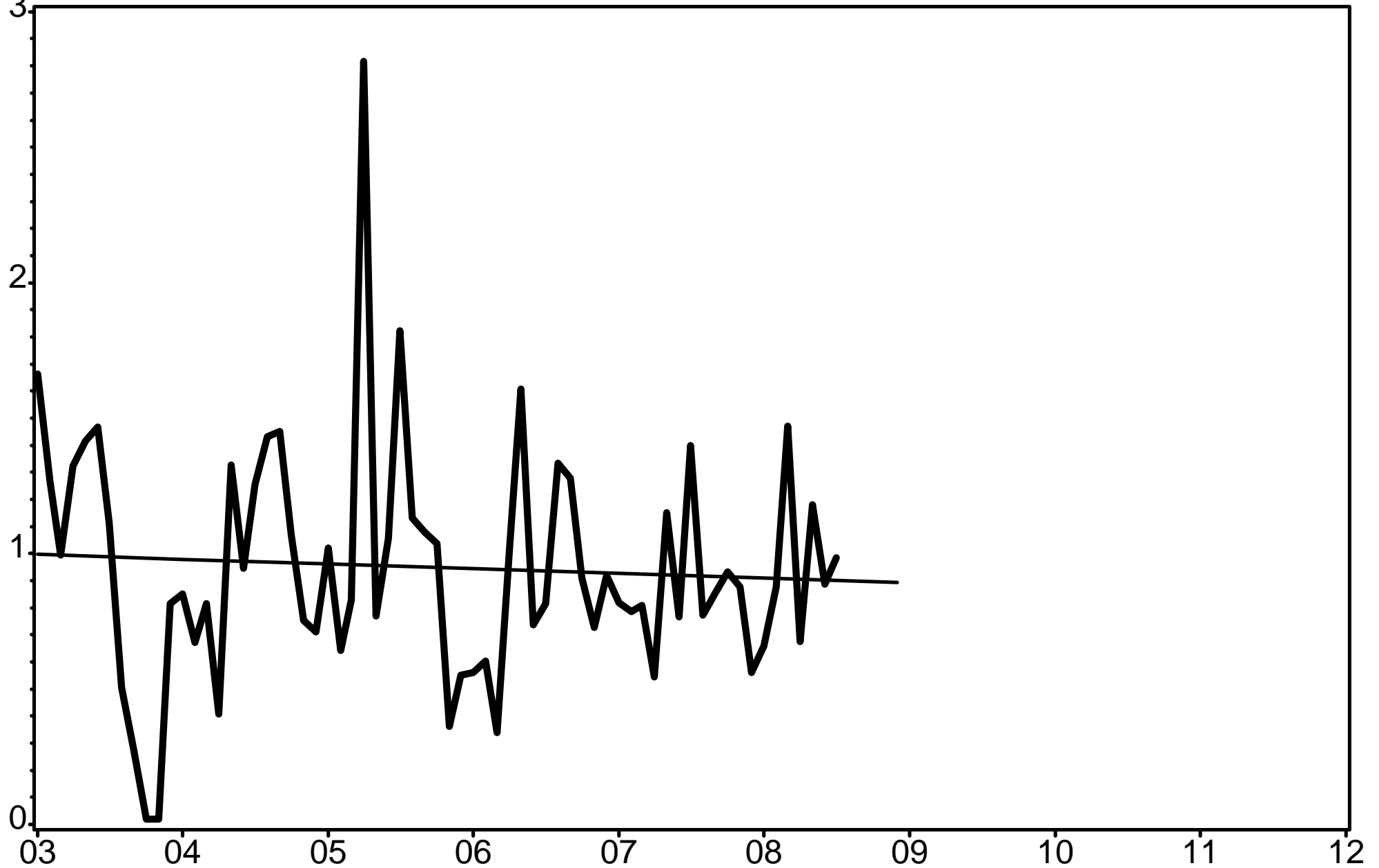
Tidal Myakka Trends Appendix - Display 1961

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Myakka

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



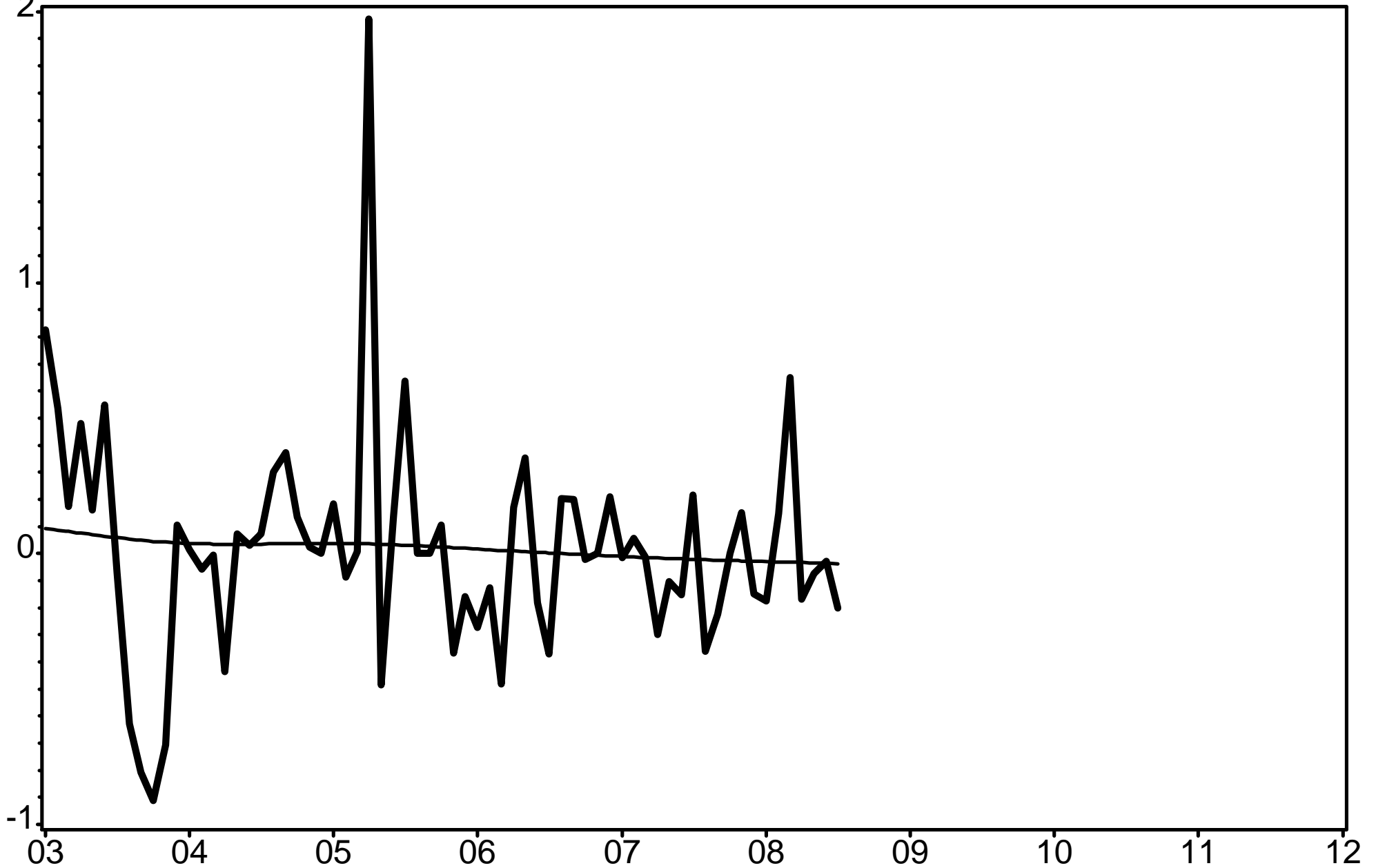
Tidal Myakka Trends Appendix - Display 1962

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

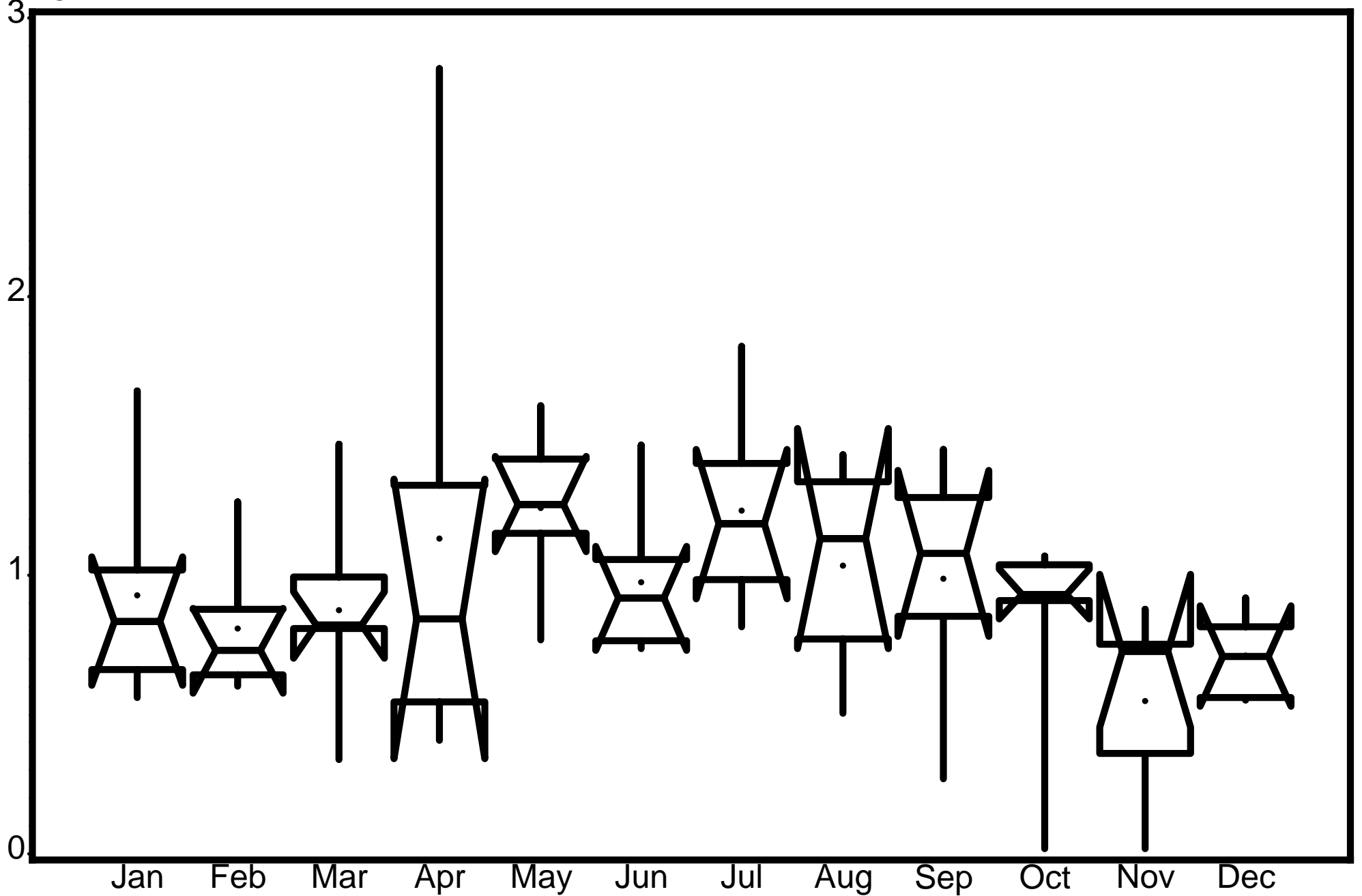


Tidal Myakka Trends Appendix - Display 1963

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Tidal Myakka

TKN_mgl
(mg/l)



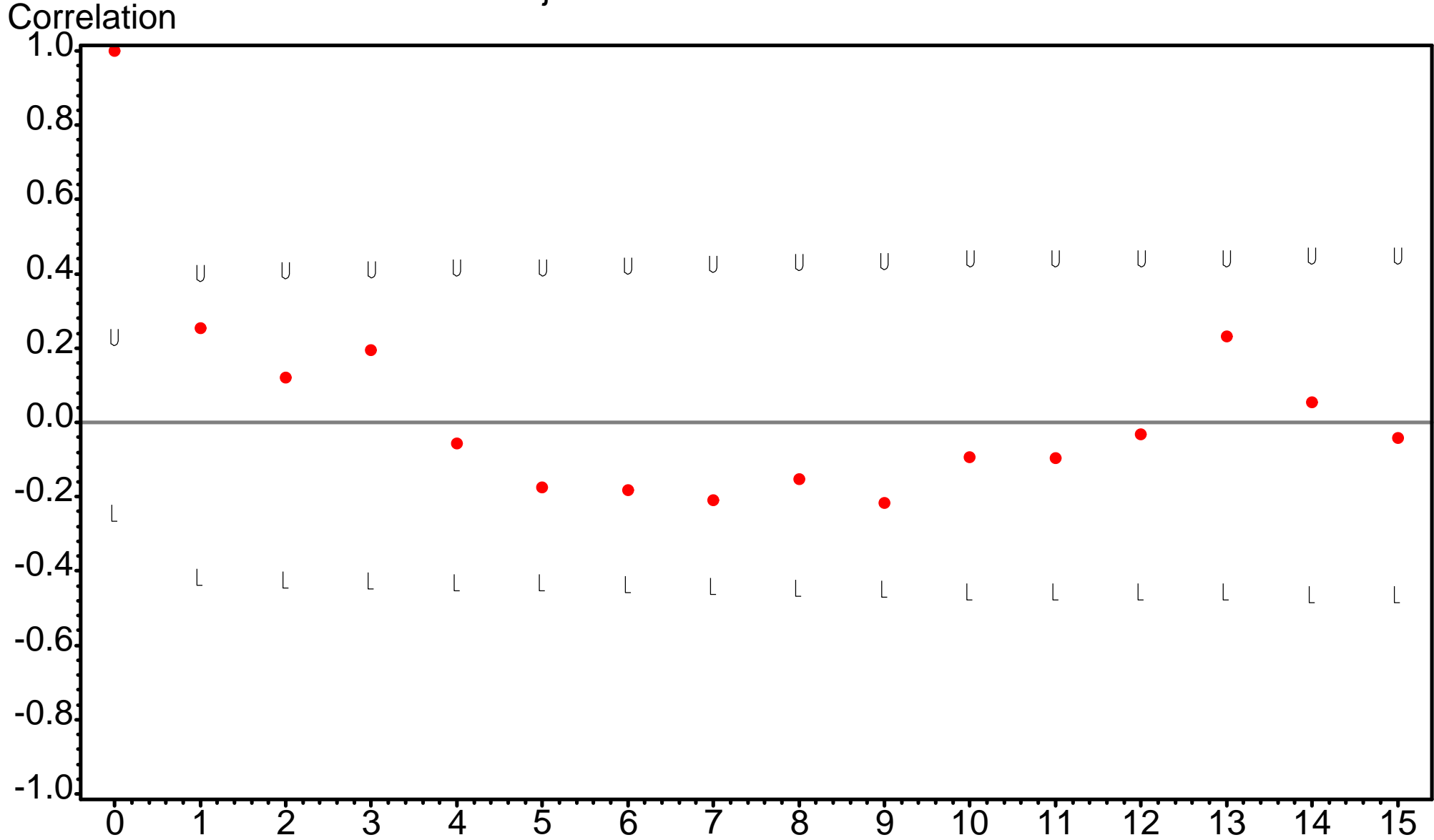
Tidal Myakka Trends Appendix - Display 1964

Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Myakka

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.254	0.204	0.408	-0.408
2	0.121	0.208	0.417	-0.417
3	0.195	0.209	0.419	-0.419
4	-0.056	0.212	0.424	-0.424
5	-0.176	0.212	0.424	-0.424
6	-0.182	0.214	0.428	-0.428
7	-0.210	0.216	0.433	-0.433
8	-0.152	0.219	0.438	-0.438
9	-0.216	0.221	0.441	-0.441
10	-0.094	0.224	0.447	-0.447
11	-0.095	0.224	0.448	-0.448
12	-0.031	0.225	0.449	-0.449
13	0.232	0.225	0.449	-0.449
14	0.053	0.228	0.456	-0.456
15	-0.042	0.228	0.456	-0.456

Tidal Myakka Trends Appendix - Display 1965

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1966
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.052	0.534	0.534	-0.021

Tidal Myakka Trends Appendix - Display 1967
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13548	0.23338	0.17456	-0.04

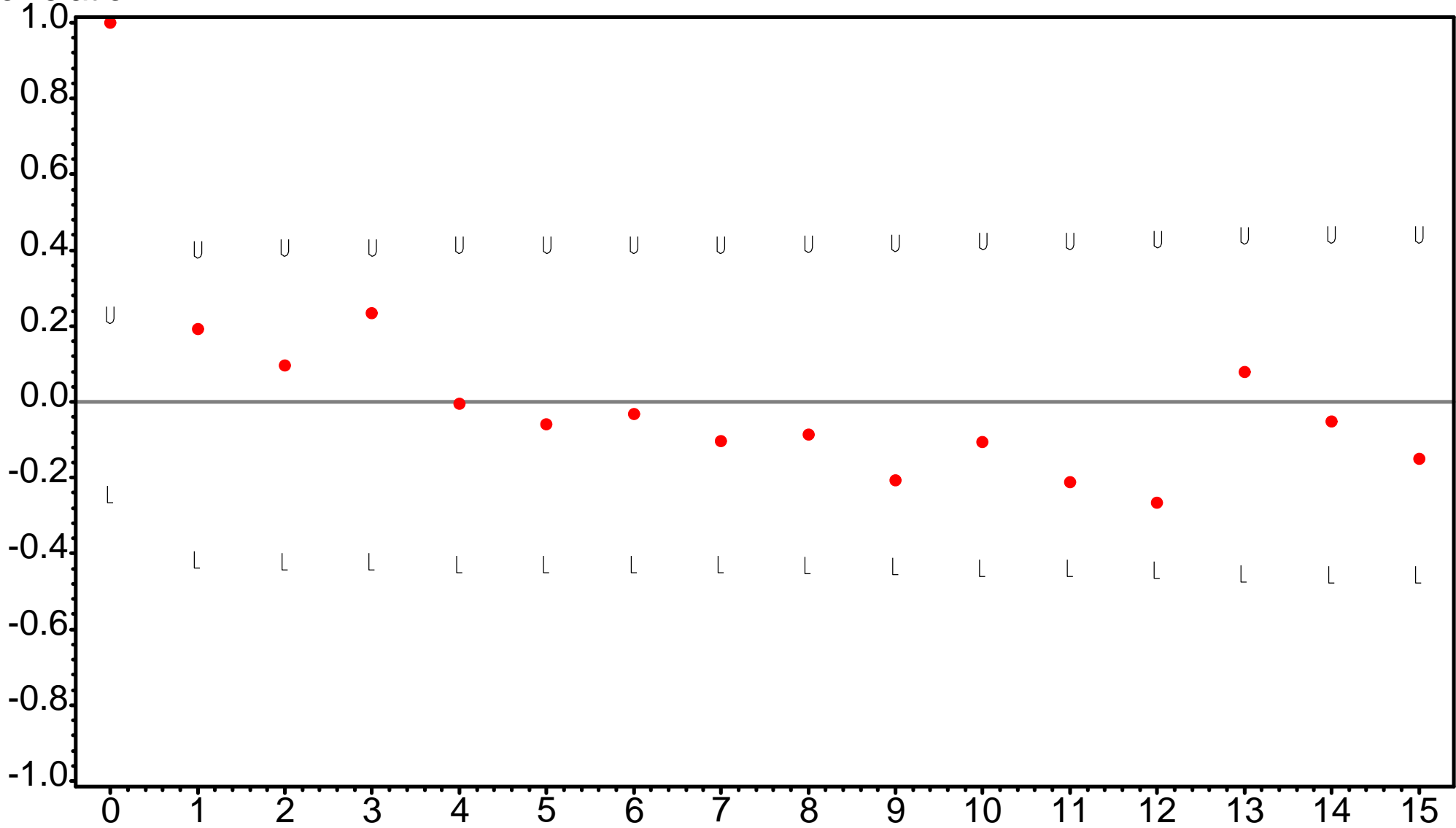
Tidal Myakka Trends Appendix - Display 1969
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.191	0.204	0.408	-0.408
2	0.097	0.207	0.413	-0.413
3	0.233	0.207	0.414	-0.414
4	-0.006	0.211	0.422	-0.422
5	-0.060	0.211	0.422	-0.422
6	-0.031	0.211	0.422	-0.422
7	-0.103	0.211	0.422	-0.422
8	-0.086	0.212	0.424	-0.424
9	-0.208	0.212	0.425	-0.425
10	-0.107	0.215	0.430	-0.430
11	-0.212	0.216	0.432	-0.432
12	-0.267	0.219	0.437	-0.437
13	0.079	0.223	0.446	-0.446
14	-0.052	0.224	0.447	-0.447
15	-0.150	0.224	0.448	-0.448

Tidal Myakka Trends Appendix - Display 1970

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Myakka Adjusted for Seasonal Median and Detrended

Correlation



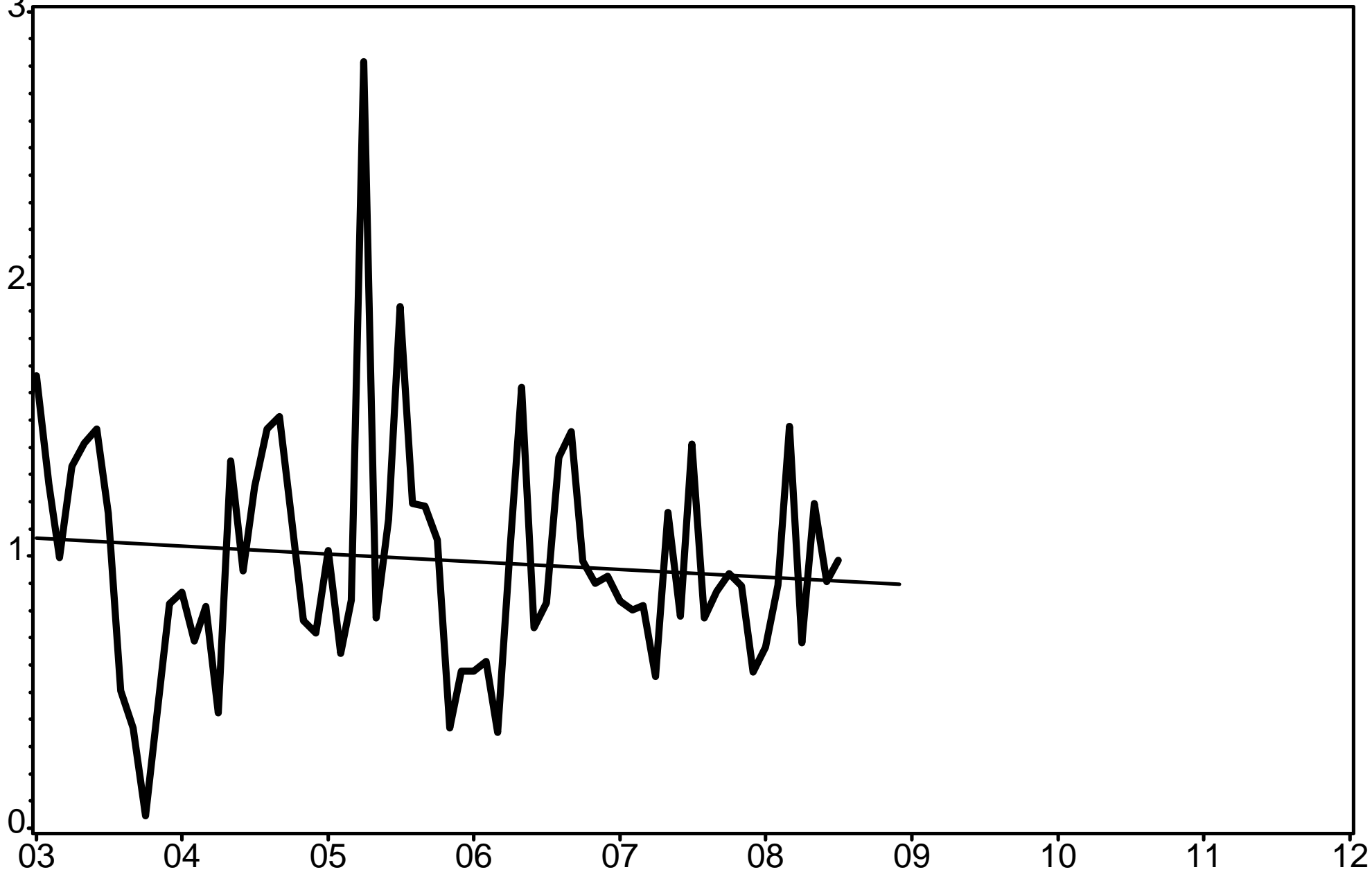
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1971

Monthly Data Time Series
for Surface Total Nitrogen in Tidal Myakka
Not Adjusted for Seasonal Medians

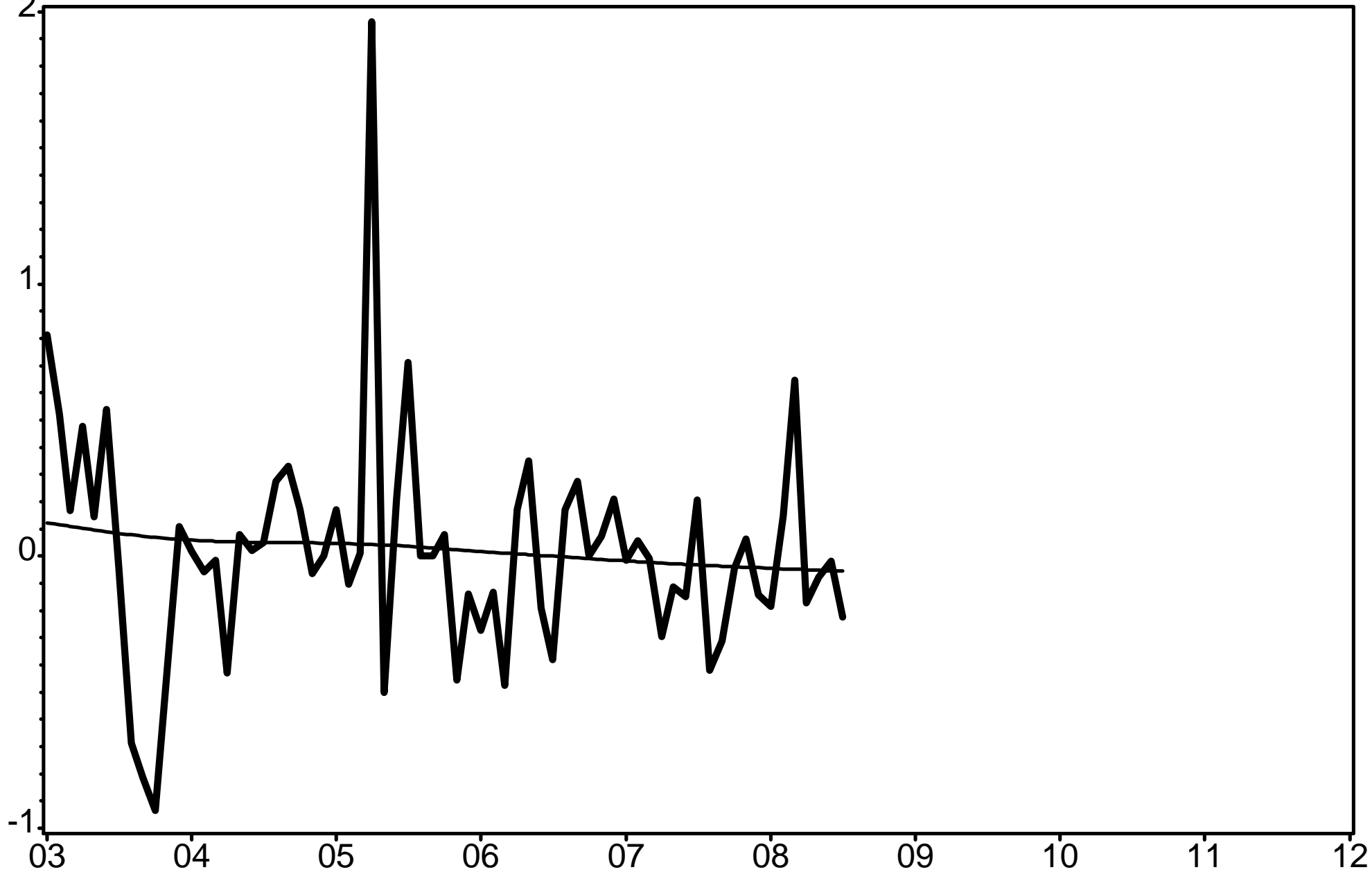
TN_mgl
(mg/l)



Tidal Myakka Trends Appendix - Display 1972

Monthly Data Time Series
for Surface Total Nitrogen in Tidal Myakka
Adjusted for Seasonal Medians

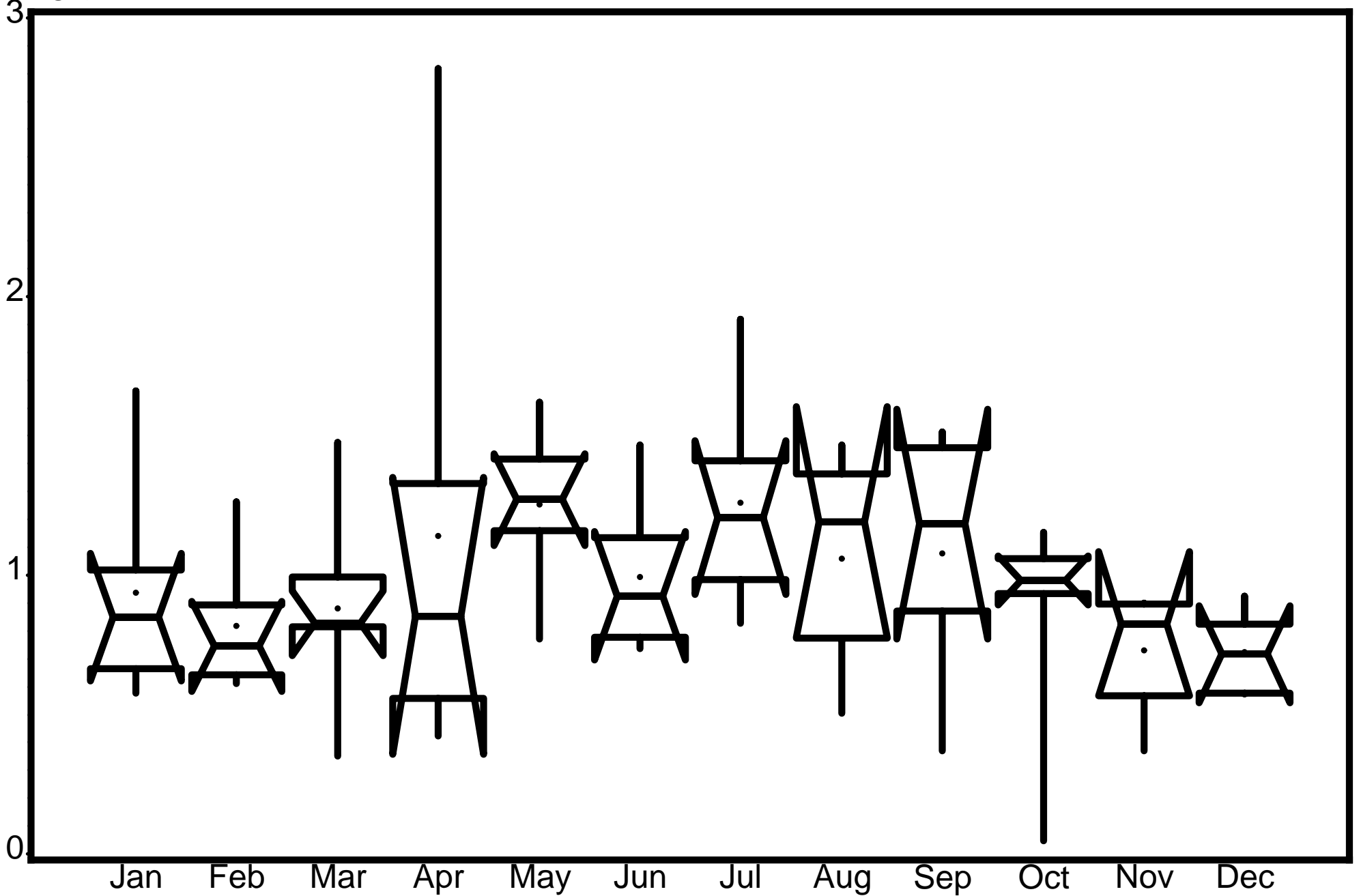
Adjusted
TN_mgl
(mg/l)



Tidal Myakka Trends Appendix - Display 1973

Seasonal Univariate Statistics
for Surface Total Nitrogen in Tidal Myakka

TN_mgl
(mg/l)



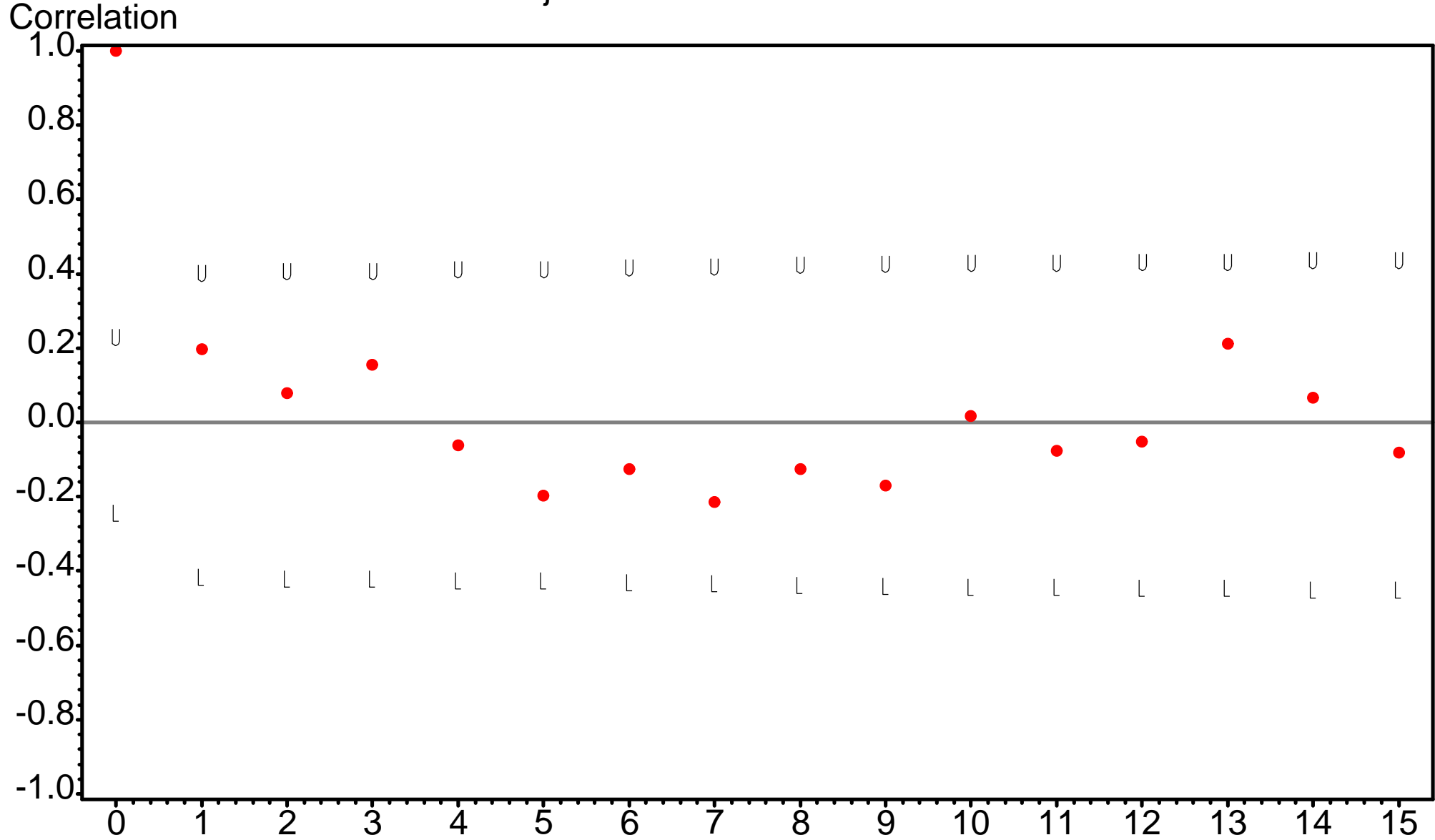
Tidal Myakka Trends Appendix - Display 1974
Autocorrelation Statistics for Surface Total Nitrogen in Tidal Myakka

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.197	0.204	0.408	-0.408
2	0.078	0.207	0.414	-0.414
3	0.156	0.207	0.414	-0.414
4	-0.061	0.209	0.418	-0.418
5	-0.198	0.209	0.418	-0.418
6	-0.126	0.212	0.423	-0.423
7	-0.215	0.213	0.425	-0.425
8	-0.125	0.216	0.431	-0.431
9	-0.171	0.217	0.433	-0.433
10	0.017	0.219	0.437	-0.437
11	-0.076	0.219	0.437	-0.437
12	-0.052	0.219	0.438	-0.438
13	0.212	0.219	0.438	-0.438
14	0.066	0.222	0.444	-0.444
15	-0.081	0.222	0.444	-0.444

Tidal Myakka Trends Appendix - Display 1975

Correlogram for Surface Total Nitrogen in Tidal Myakka

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1976
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.075	0.379	0.379	-0.029

Tidal Myakka Trends Appendix - Display 1977
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.17881	0.11603	0.087597	-0.046

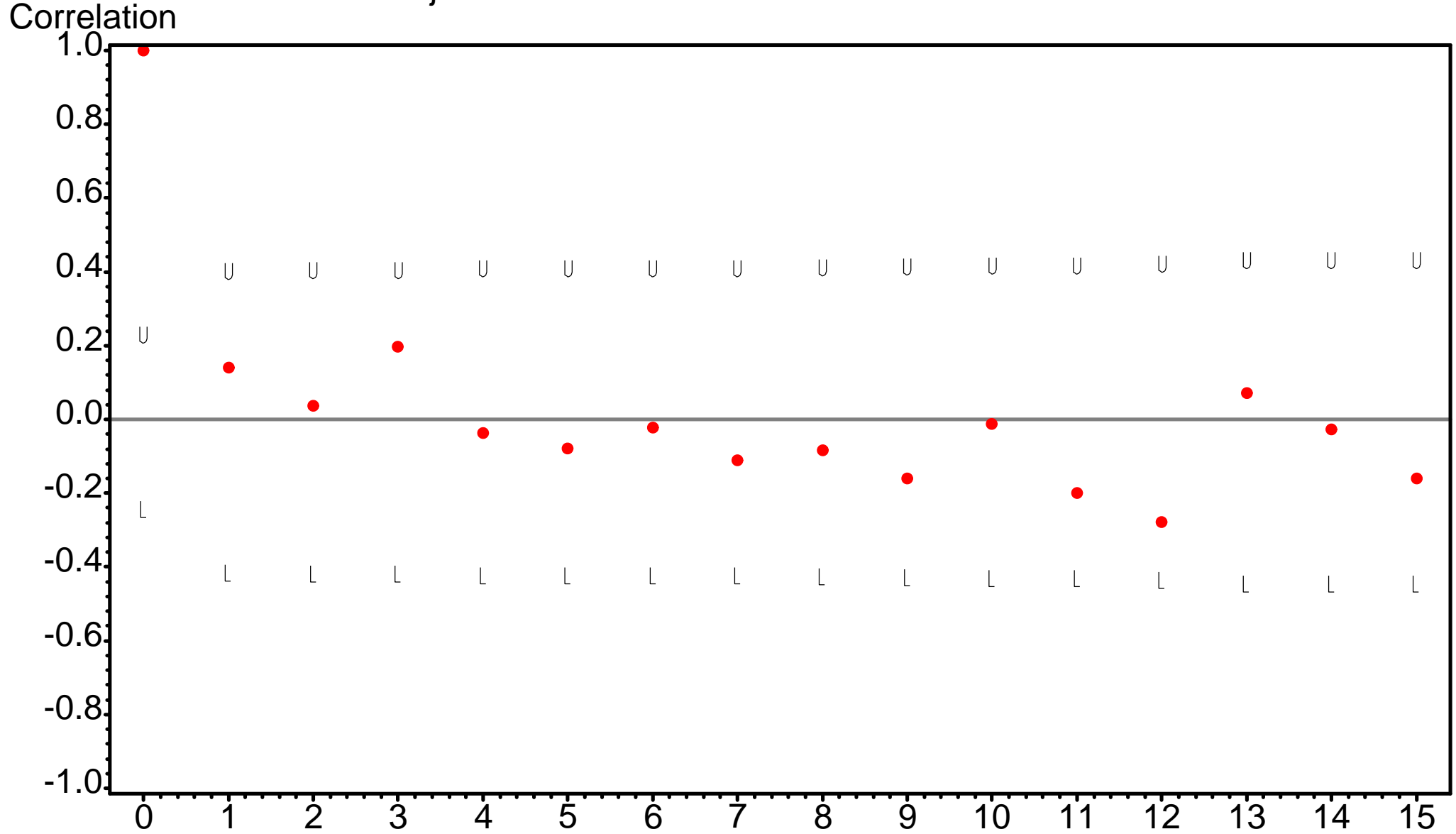
Tidal Myakka Trends Appendix - Display 1979
Autocorrelation Statistics for Surface Total Nitrogen in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.141	0.204	0.408	-0.408
2	0.037	0.205	0.411	-0.411
3	0.196	0.206	0.411	-0.411
4	-0.036	0.208	0.416	-0.416
5	-0.078	0.208	0.416	-0.416
6	-0.022	0.209	0.417	-0.417
7	-0.110	0.209	0.417	-0.417
8	-0.083	0.209	0.419	-0.419
9	-0.159	0.210	0.420	-0.420
10	-0.012	0.212	0.423	-0.423
11	-0.199	0.212	0.423	-0.423
12	-0.277	0.214	0.428	-0.428
13	0.071	0.219	0.438	-0.438
14	-0.026	0.219	0.439	-0.439
15	-0.159	0.219	0.439	-0.439

Tidal Myakka Trends Appendix - Display 1980

Correlogram for Surface Total Nitrogen in Tidal Myakka

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

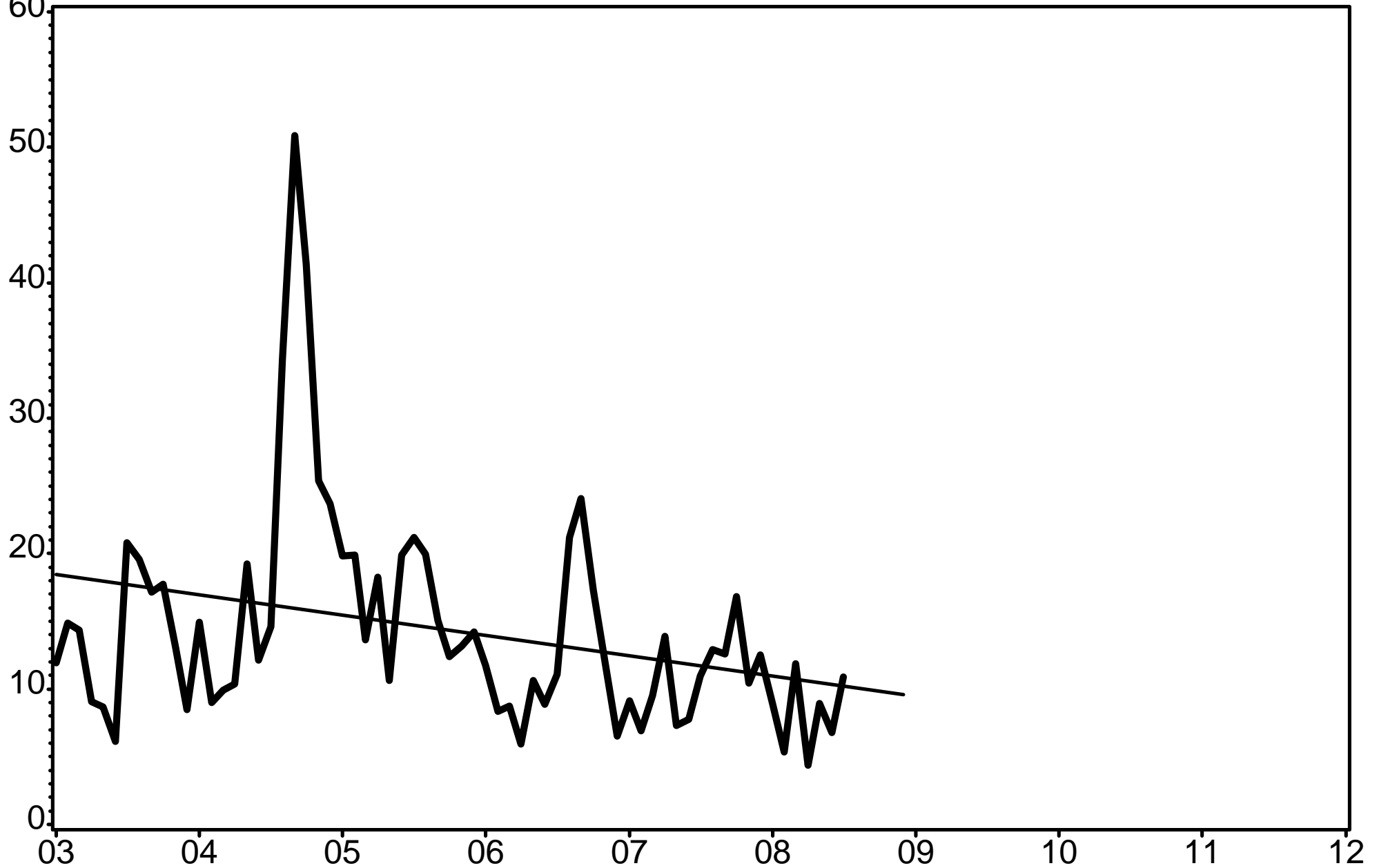
Tidal Myakka Trends Appendix - Display 1981

Monthly Data Time Series

for Surface Total Organic Carbon in Tidal Myakka

Not Adjusted for Seasonal Medians

TOC_mgl
(mg/l)



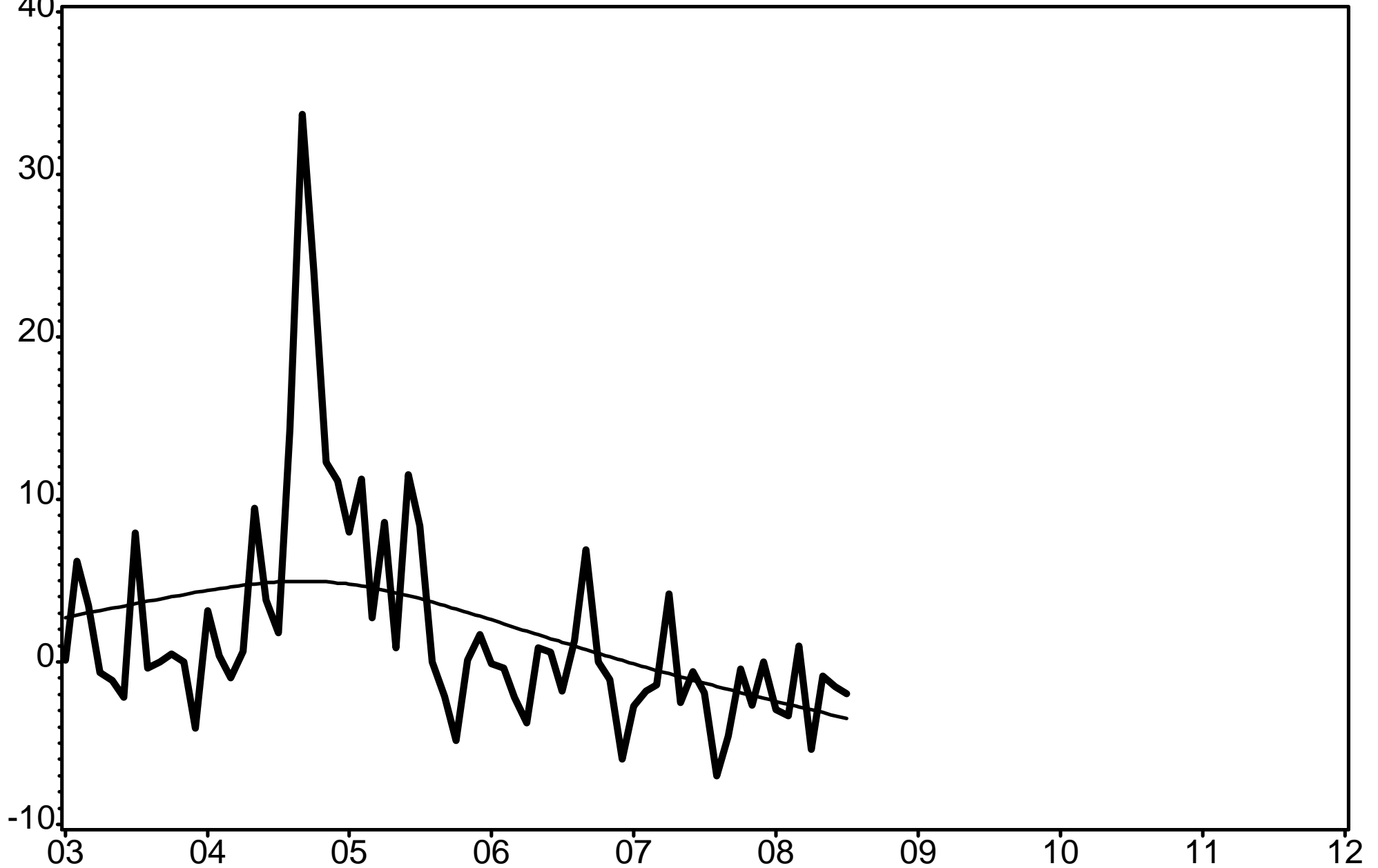
Tidal Myakka Trends Appendix - Display 1982

Monthly Data Time Series

for Surface Total Organic Carbon in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

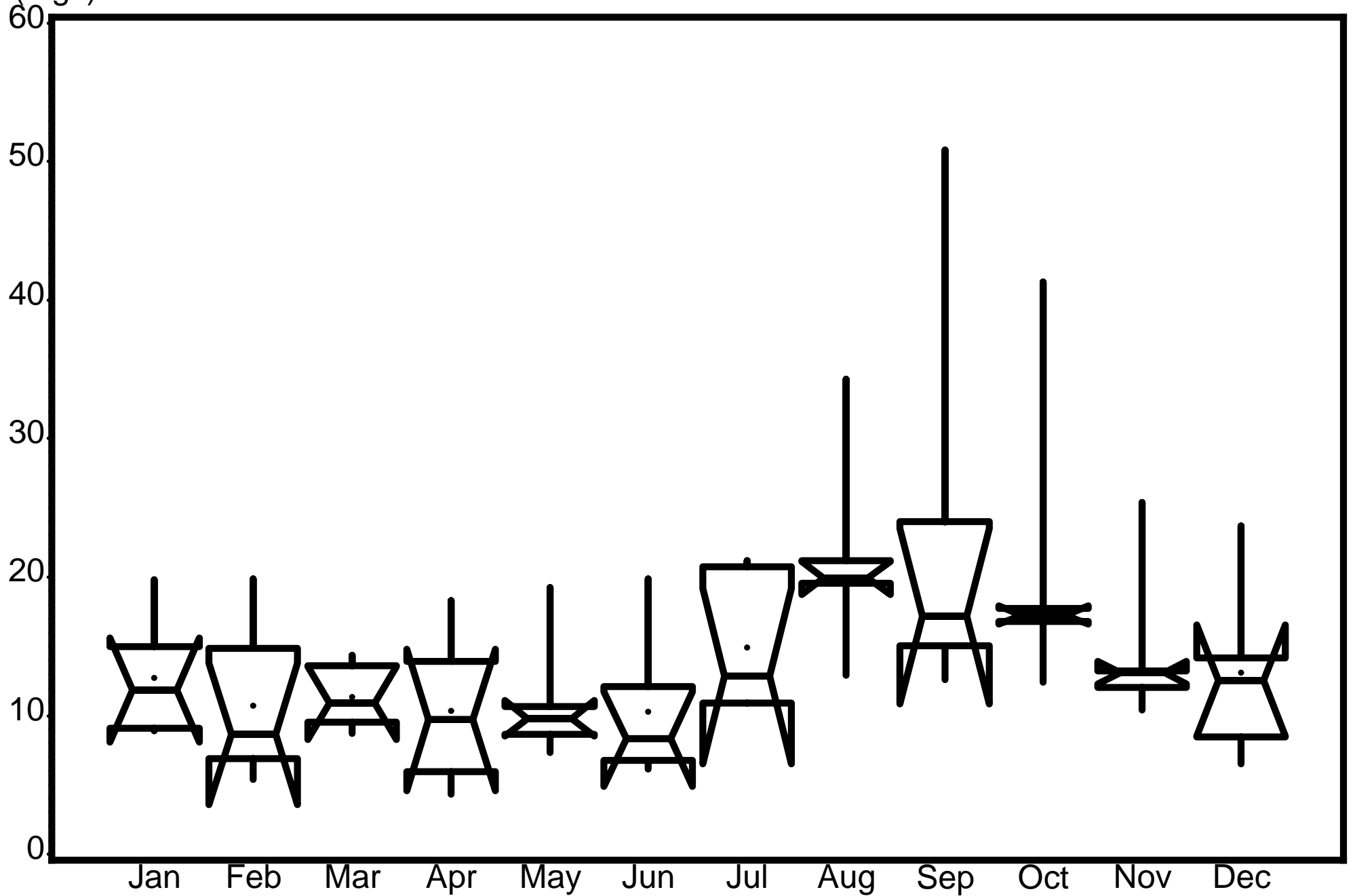


Tidal Myakka Trends Appendix - Display 1983

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Tidal Myakka

TOC_mgl
(mg/l)



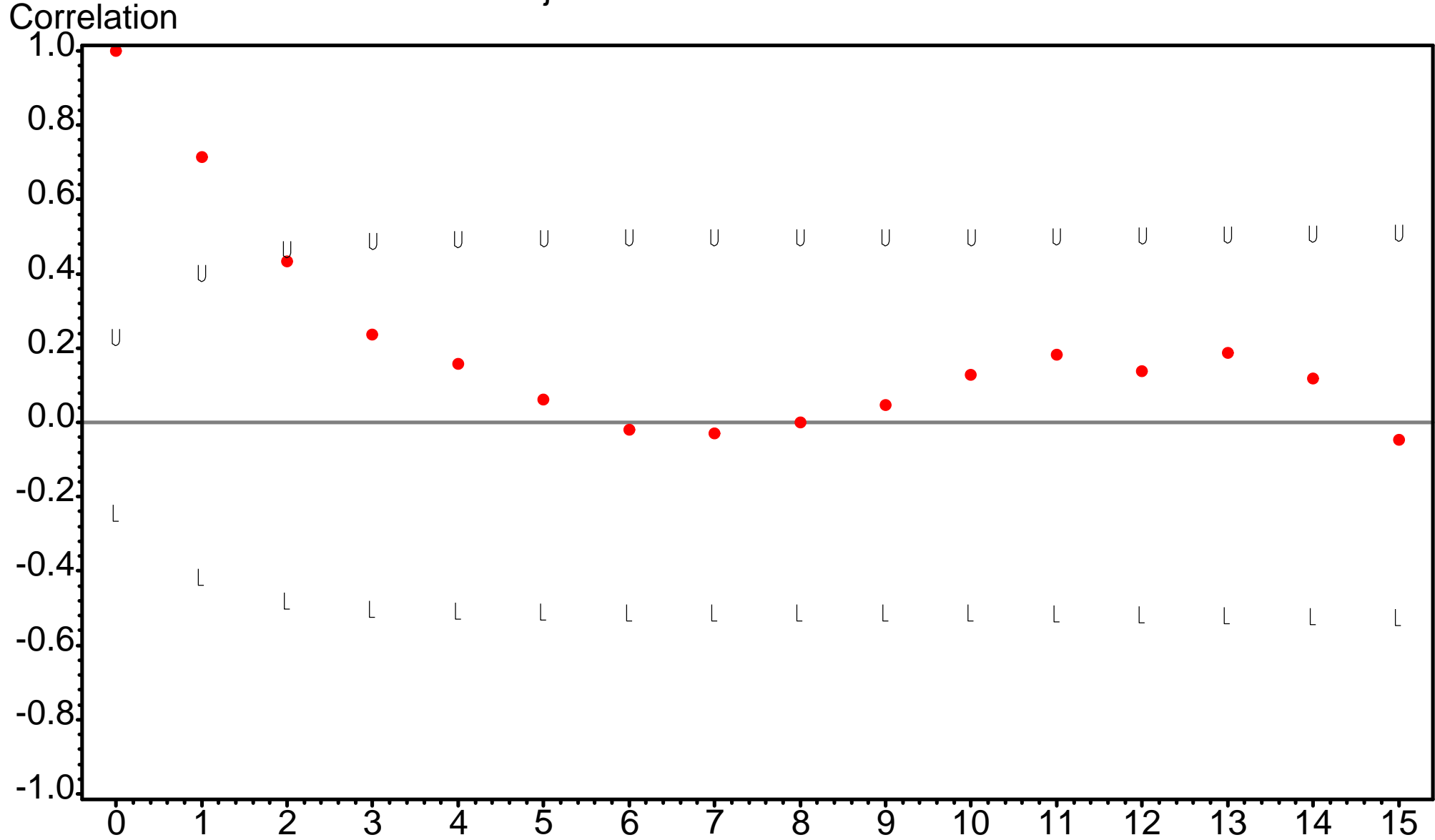
Tidal Myakka Trends Appendix - Display 1984
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Myakka

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.715	0.204	0.408	-0.408
2	0.433	0.236	0.473	-0.473
3	0.236	0.247	0.494	-0.494
4	0.157	0.250	0.500	-0.500
5	0.061	0.252	0.503	-0.503
6	-0.019	0.252	0.504	-0.504
7	-0.029	0.252	0.504	-0.504
8	-0.001	0.252	0.504	-0.504
9	0.048	0.252	0.504	-0.504
10	0.129	0.252	0.504	-0.504
11	0.183	0.253	0.506	-0.506
12	0.139	0.255	0.509	-0.509
13	0.187	0.256	0.512	-0.512
14	0.119	0.258	0.515	-0.515
15	-0.046	0.258	0.517	-0.517

Tidal Myakka Trends Appendix - Display 1985

Correlogram for Surface Total Organic Carbon in Tidal Myakka

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1986
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.242	.004	.004	-1.184

Tidal Myakka Trends Appendix - Display 1987
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Myakka
Adjusted for Seasonal Medians

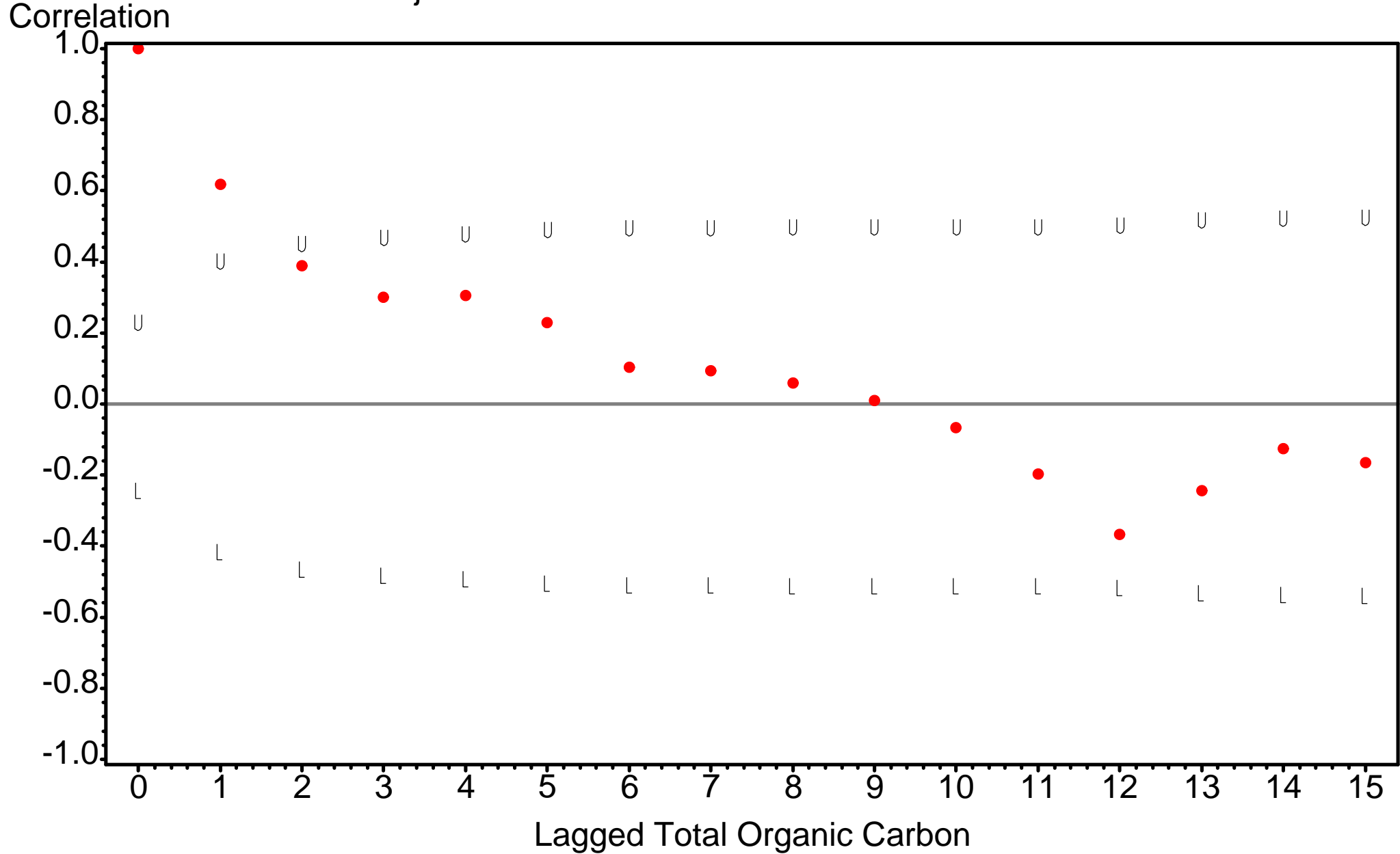
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.40645	.000220805	0.085791	-1.06

Tidal Myakka Trends Appendix - Display 1989
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.619	0.204	0.408	-0.408
2	0.389	0.229	0.457	-0.457
3	0.300	0.238	0.476	-0.476
4	0.306	0.243	0.486	-0.486
5	0.228	0.248	0.497	-0.497
6	0.104	0.251	0.502	-0.502
7	0.094	0.252	0.503	-0.503
8	0.058	0.252	0.504	-0.504
9	0.009	0.252	0.505	-0.505
10	-0.067	0.252	0.505	-0.505
11	-0.197	0.253	0.505	-0.505
12	-0.367	0.255	0.510	-0.510
13	-0.244	0.262	0.524	-0.524
14	-0.126	0.265	0.530	-0.530
15	-0.166	0.266	0.532	-0.532

Tidal Myakka Trends Appendix - Display 1990

Correlogram for Surface Total Organic Carbon in Tidal Myakka Adjusted for Seasonal Median and Detrended

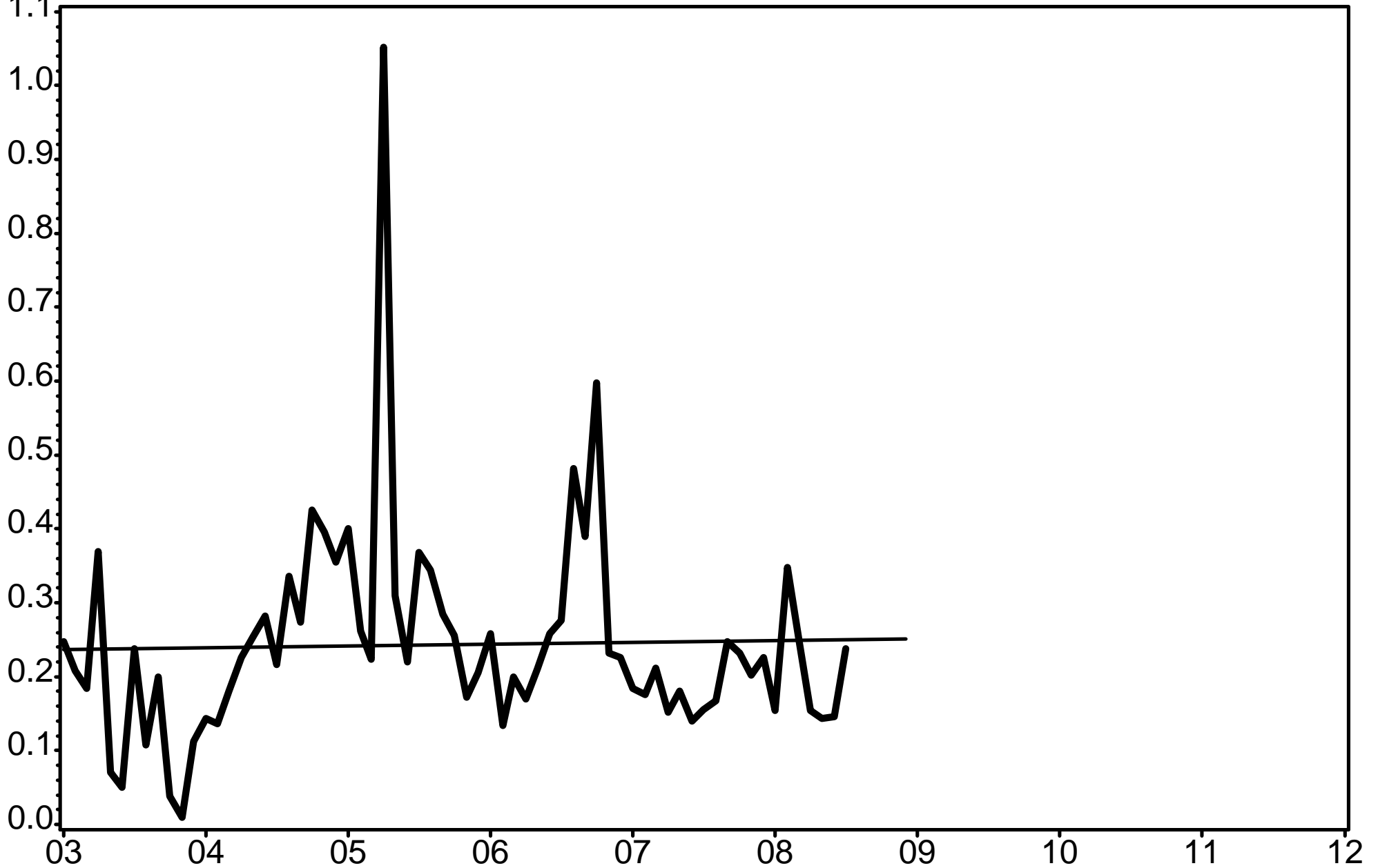


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1991

Monthly Data Time Series
for Surface Total Phosphorous in Tidal Myakka
Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



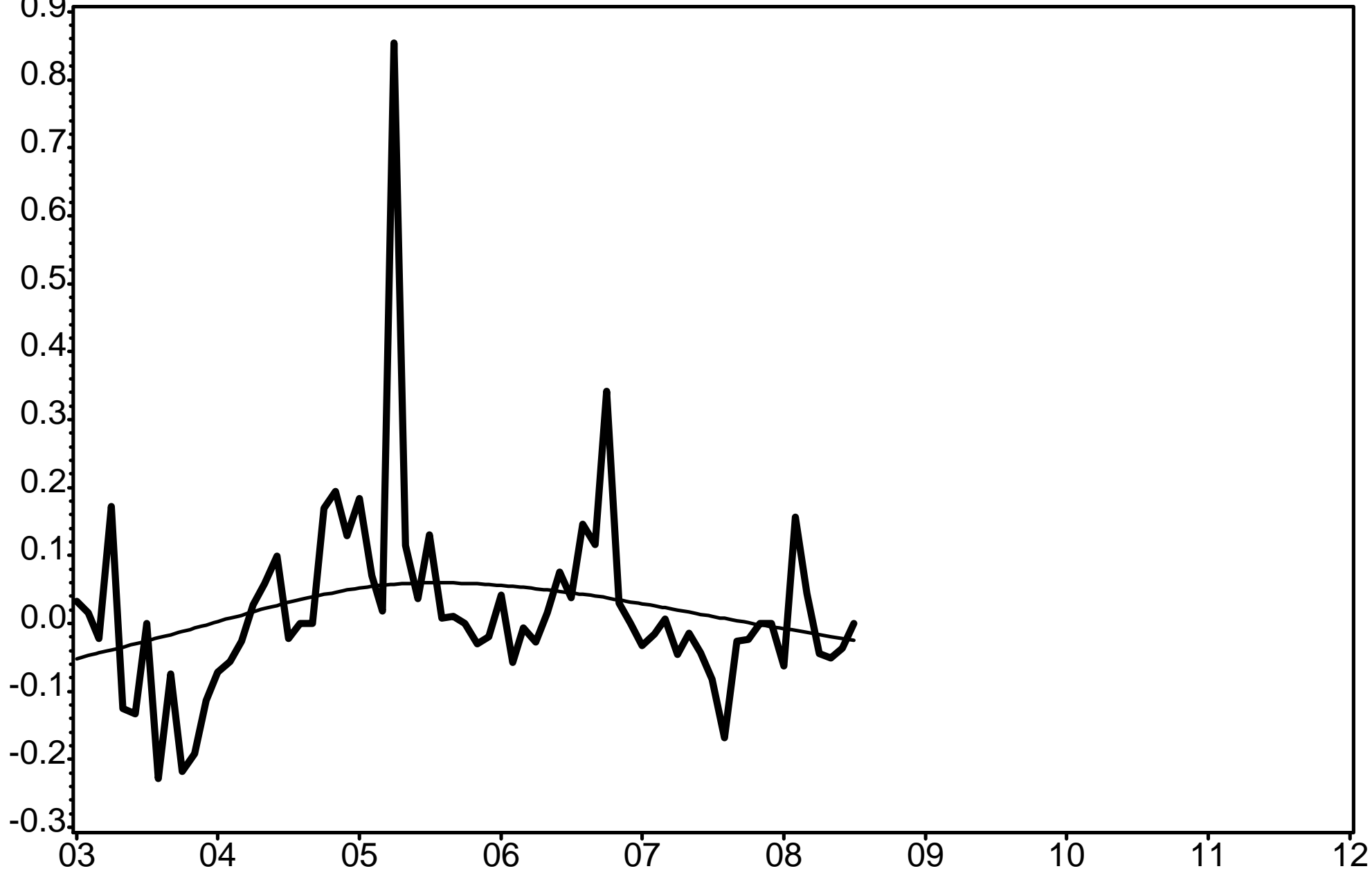
Tidal Myakka Trends Appendix - Display 1992

Monthly Data Time Series

for Surface Total Phosphorous in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

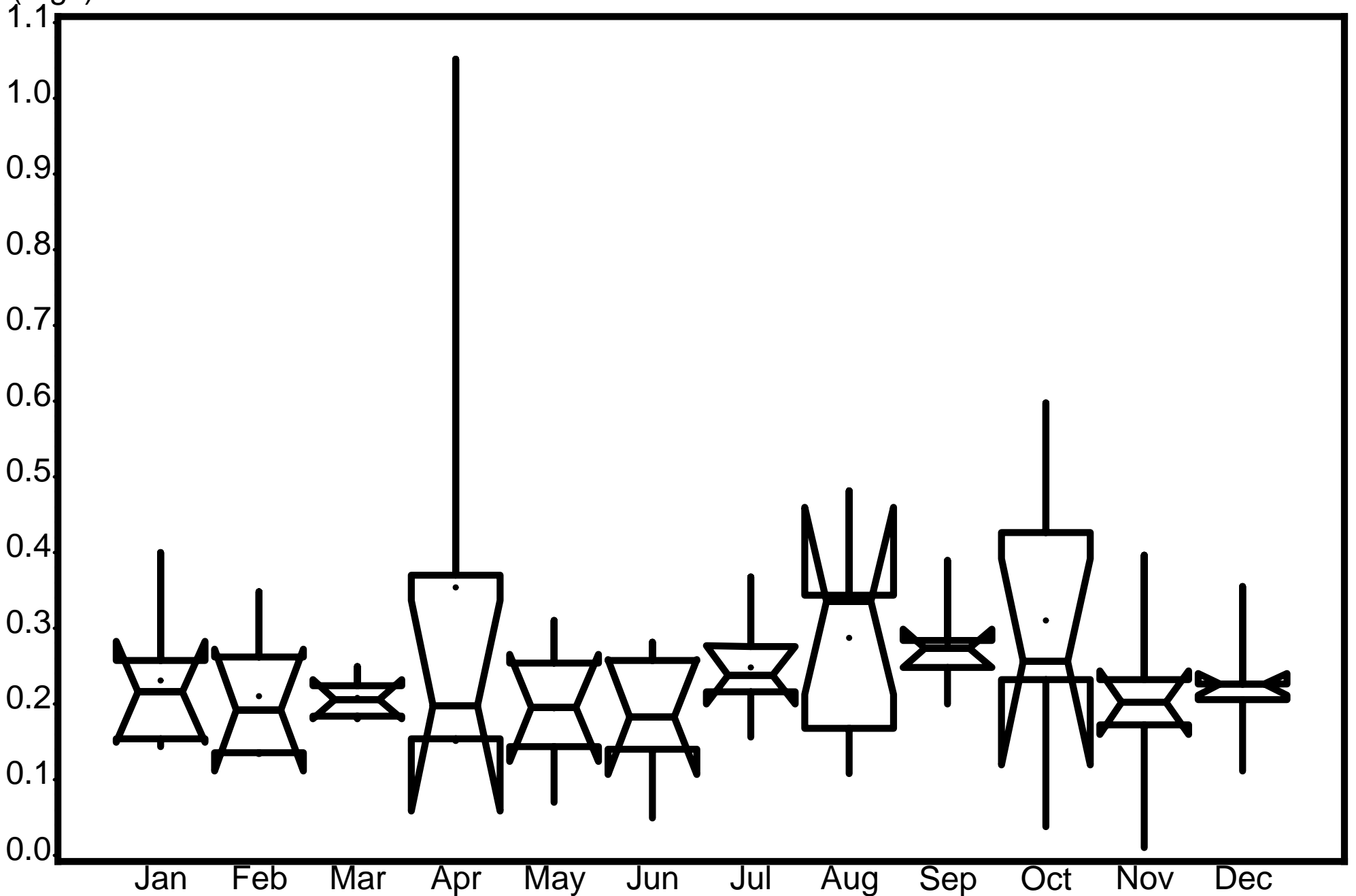


Tidal Myakka Trends Appendix - Display 1993

Seasonal Univariate Statistics

for Surface Total Phosphorous in Tidal Myakka

TP_mgl
(mg/l)

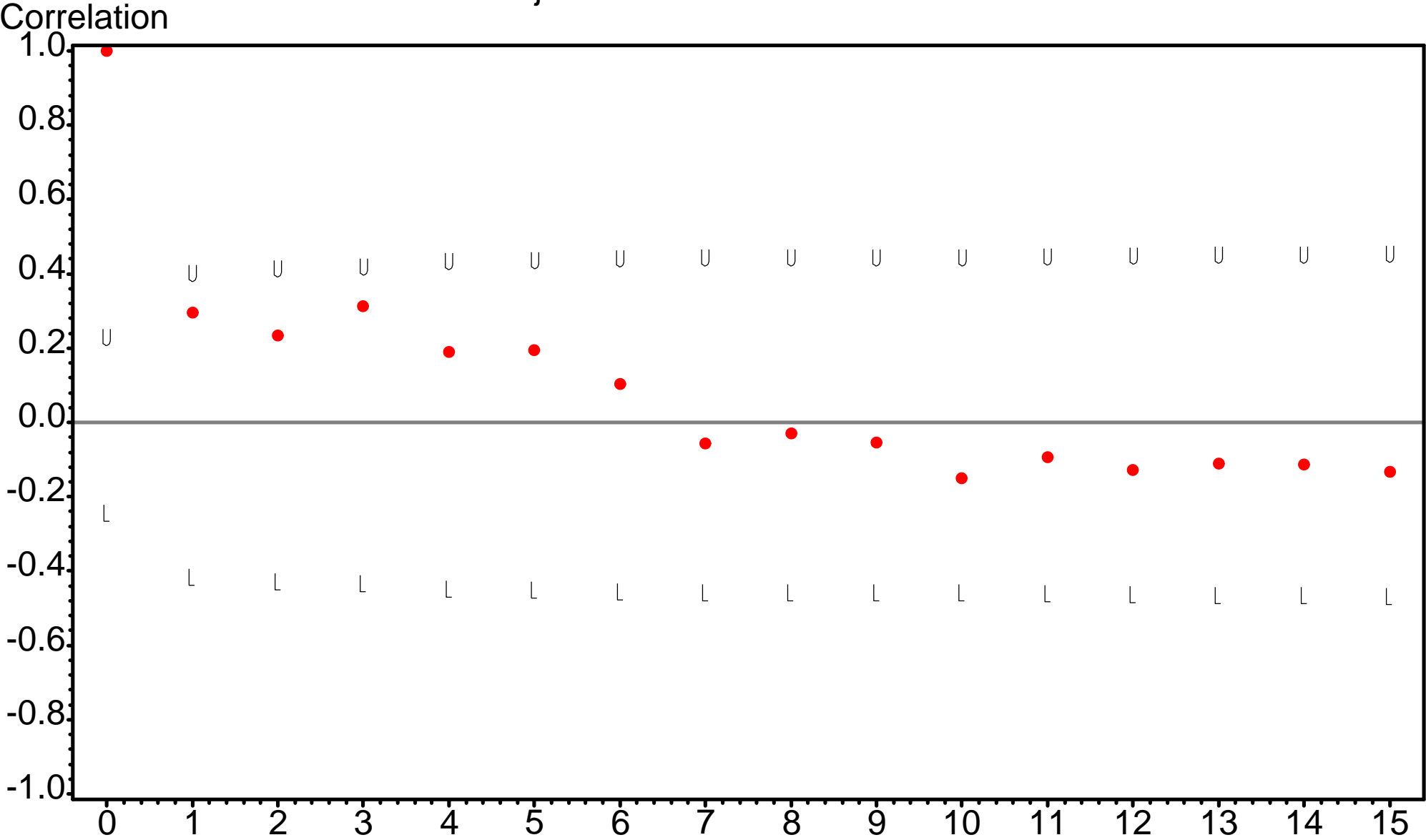


Tidal Myakka Trends Appendix - Display 1994
Autocorrelation Statistics for Surface Total Phosphorous in Tidal Myakka

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.296	0.204	0.408	-0.408
2	0.234	0.210	0.420	-0.420
3	0.313	0.214	0.427	-0.427
4	0.190	0.220	0.440	-0.440
5	0.194	0.222	0.444	-0.444
6	0.104	0.225	0.449	-0.449
7	-0.056	0.225	0.450	-0.450
8	-0.030	0.225	0.451	-0.451
9	-0.054	0.225	0.451	-0.451
10	-0.149	0.226	0.451	-0.451
11	-0.094	0.227	0.454	-0.454
12	-0.129	0.228	0.455	-0.455
13	-0.111	0.229	0.457	-0.457
14	-0.113	0.229	0.459	-0.459
15	-0.132	0.230	0.460	-0.460

Tidal Myakka Trends Appendix - Display 1995

Correlogram for Surface Total Phosphorous in Tidal Myakka Unadjusted for Seasonal Median



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 1996
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.011	0.901	0.901	-.001

Tidal Myakka Trends Appendix - Display 1997
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Myakka
Adjusted for Seasonal Medians

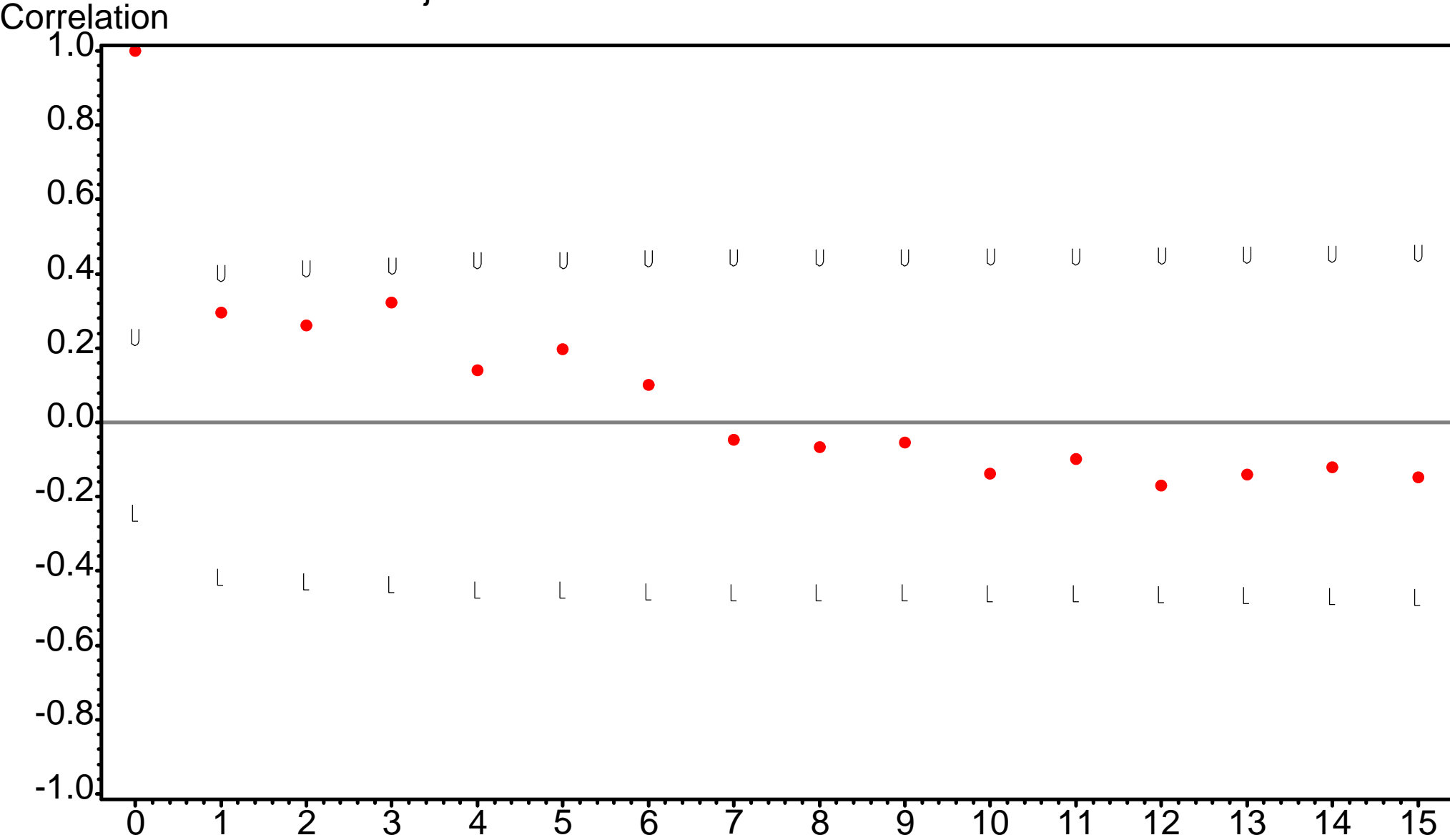
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.058065	0.63238	0.78861	.00533333

Tidal Myakka Trends Appendix - Display 1999
Autocorrelation Statistics for Surface Total Phosphorous in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.296	0.204	0.408	-0.408
2	0.260	0.210	0.420	-0.420
3	0.322	0.214	0.429	-0.429
4	0.140	0.221	0.442	-0.442
5	0.197	0.222	0.444	-0.444
6	0.101	0.225	0.449	-0.449
7	-0.047	0.225	0.451	-0.451
8	-0.067	0.225	0.451	-0.451
9	-0.053	0.226	0.451	-0.451
10	-0.137	0.226	0.452	-0.452
11	-0.098	0.227	0.454	-0.454
12	-0.171	0.228	0.455	-0.455
13	-0.140	0.229	0.459	-0.459
14	-0.121	0.231	0.461	-0.461
15	-0.148	0.231	0.463	-0.463

Tidal Myakka Trends Appendix - Display 2000

Correlogram for Surface Total Phosphorous in Tidal Myakka Adjusted for Seasonal Median and Detrended



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

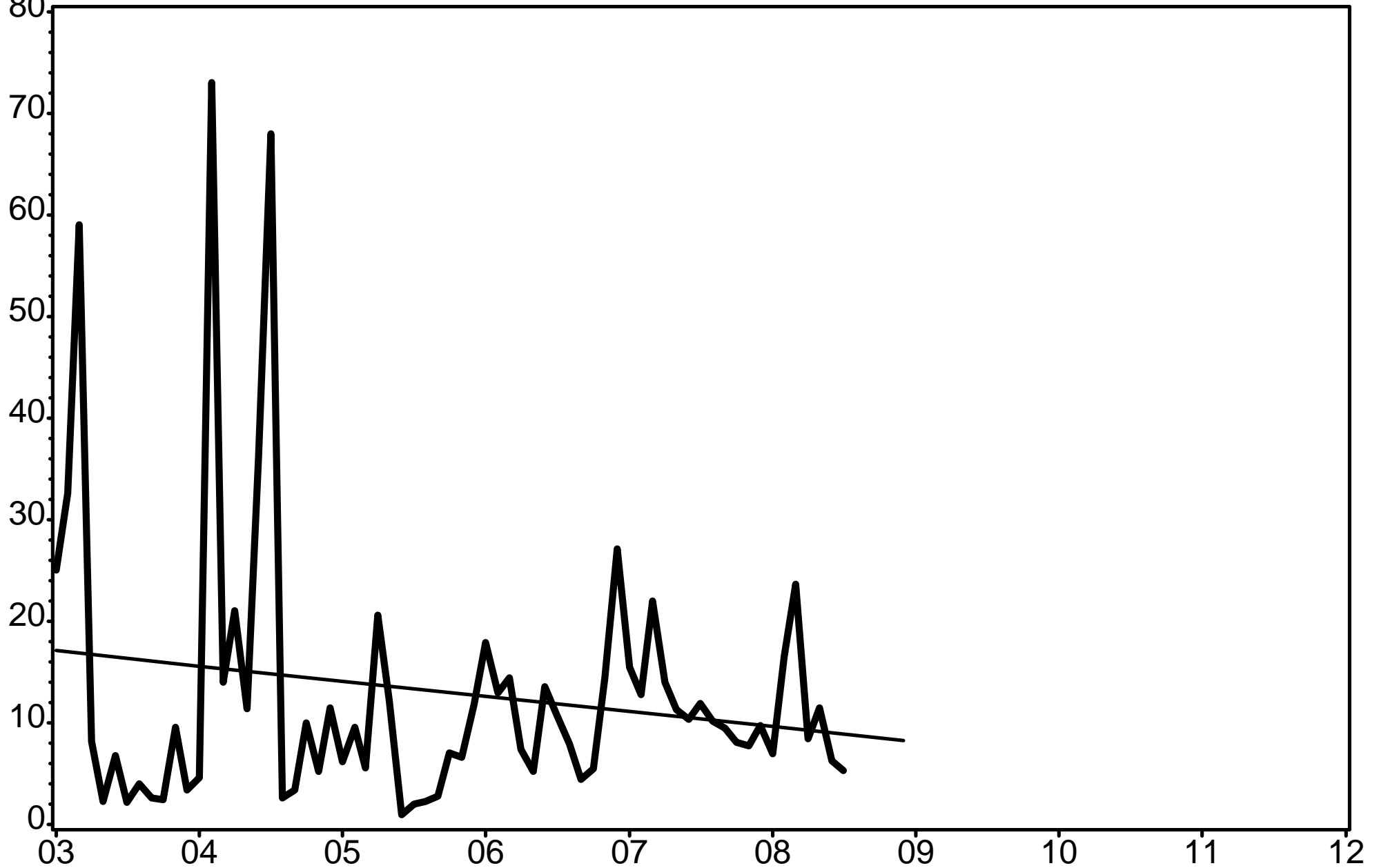
Tidal Myakka Trends Appendix - Display 2001

Monthly Data Time Series

for Surface Total Suspended Solids in Tidal Myakka

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



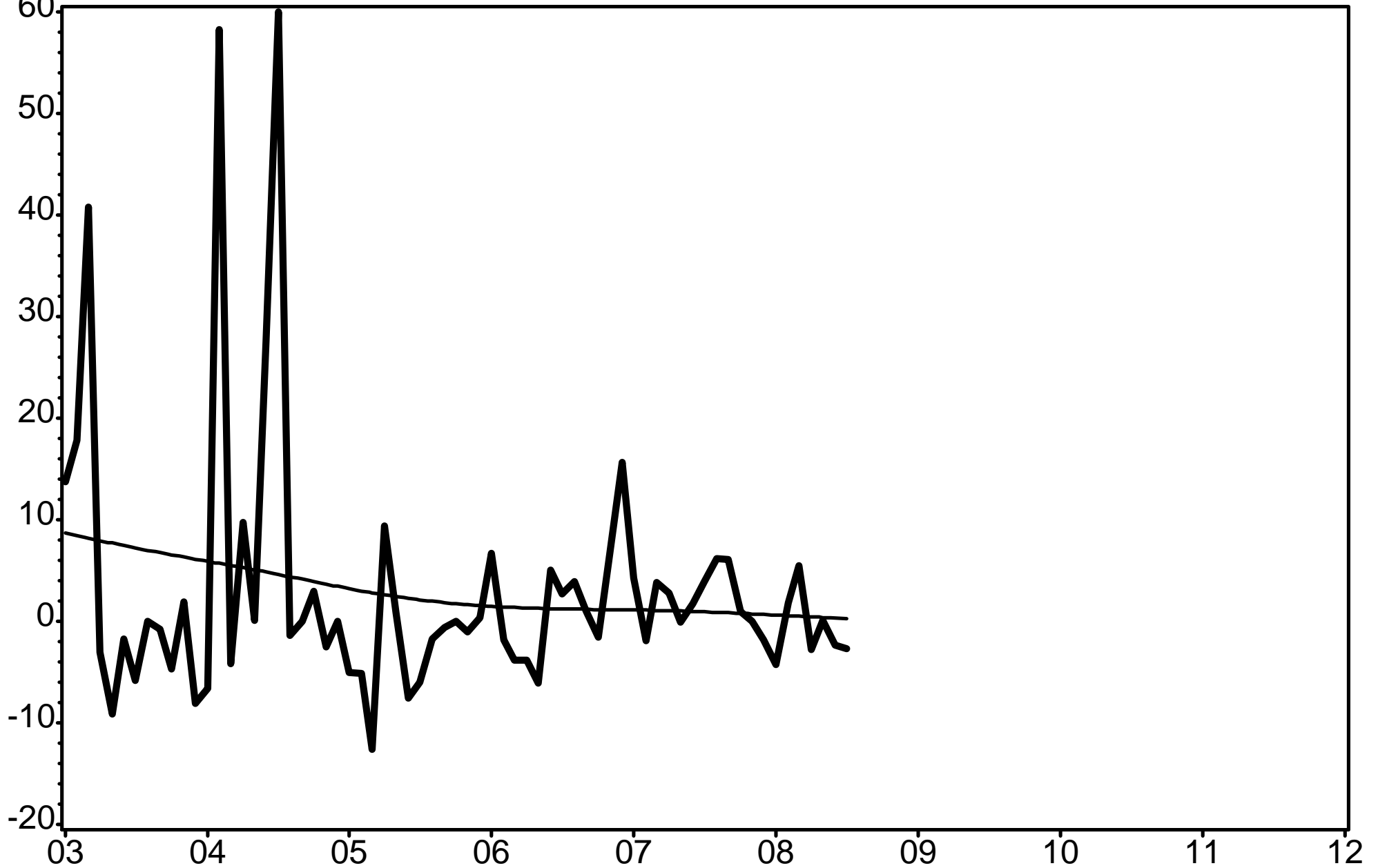
Tidal Myakka Trends Appendix - Display 2002

Monthly Data Time Series

for Surface Total Suspended Solids in Tidal Myakka

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

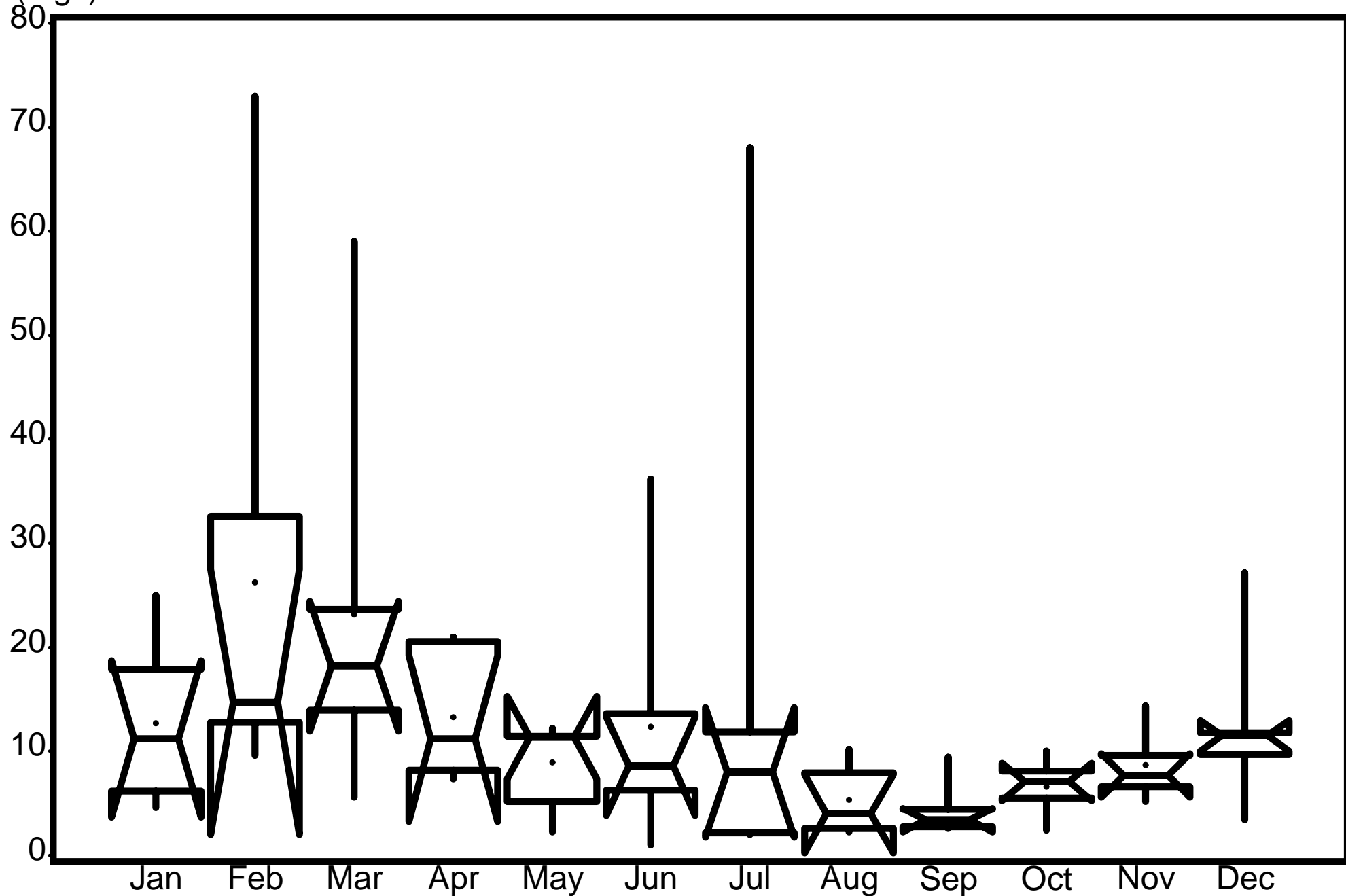


Tidal Myakka Trends Appendix - Display 2003

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Tidal Myakka

TSS_mgl
(mg/l)

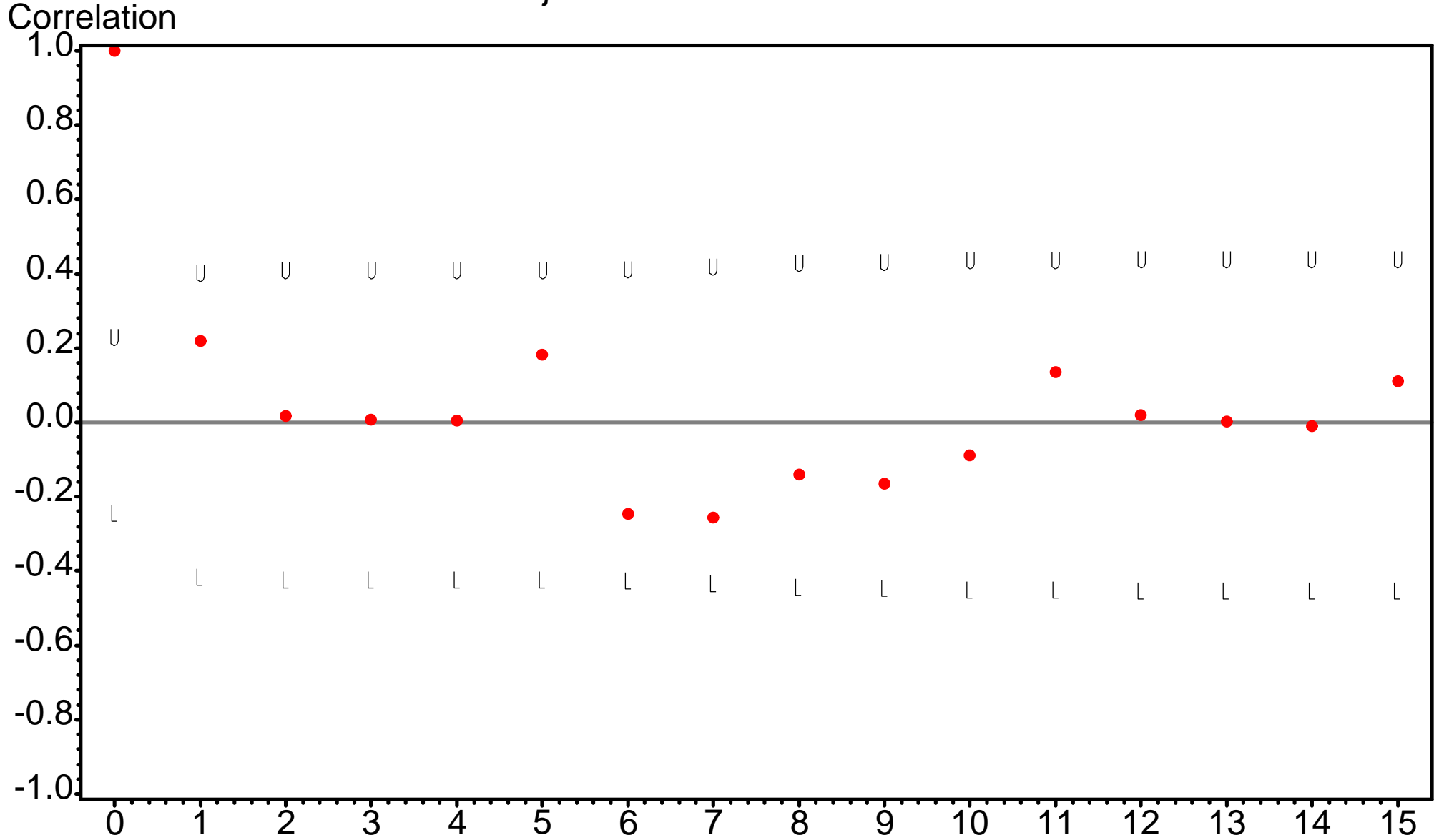


Tidal Myakka Trends Appendix - Display 2004
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Myakka

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.219	0.204	0.408	-0.408
2	0.017	0.207	0.415	-0.415
3	0.008	0.207	0.415	-0.415
4	0.004	0.207	0.415	-0.415
5	0.183	0.207	0.415	-0.415
6	-0.247	0.210	0.419	-0.419
7	-0.256	0.214	0.427	-0.427
8	-0.141	0.218	0.436	-0.436
9	-0.164	0.219	0.438	-0.438
10	-0.088	0.221	0.442	-0.442
11	0.135	0.221	0.443	-0.443
12	0.019	0.222	0.445	-0.445
13	0.002	0.222	0.445	-0.445
14	-0.010	0.222	0.445	-0.445
15	0.112	0.222	0.445	-0.445

Tidal Myakka Trends Appendix - Display 2005

Correlogram for Surface Total Suspended Solids in Tidal Myakka Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 2006
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.077	0.36	0.36	0.513

Tidal Myakka Trends Appendix - Display 2007
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Myakka
Adjusted for Seasonal Medians

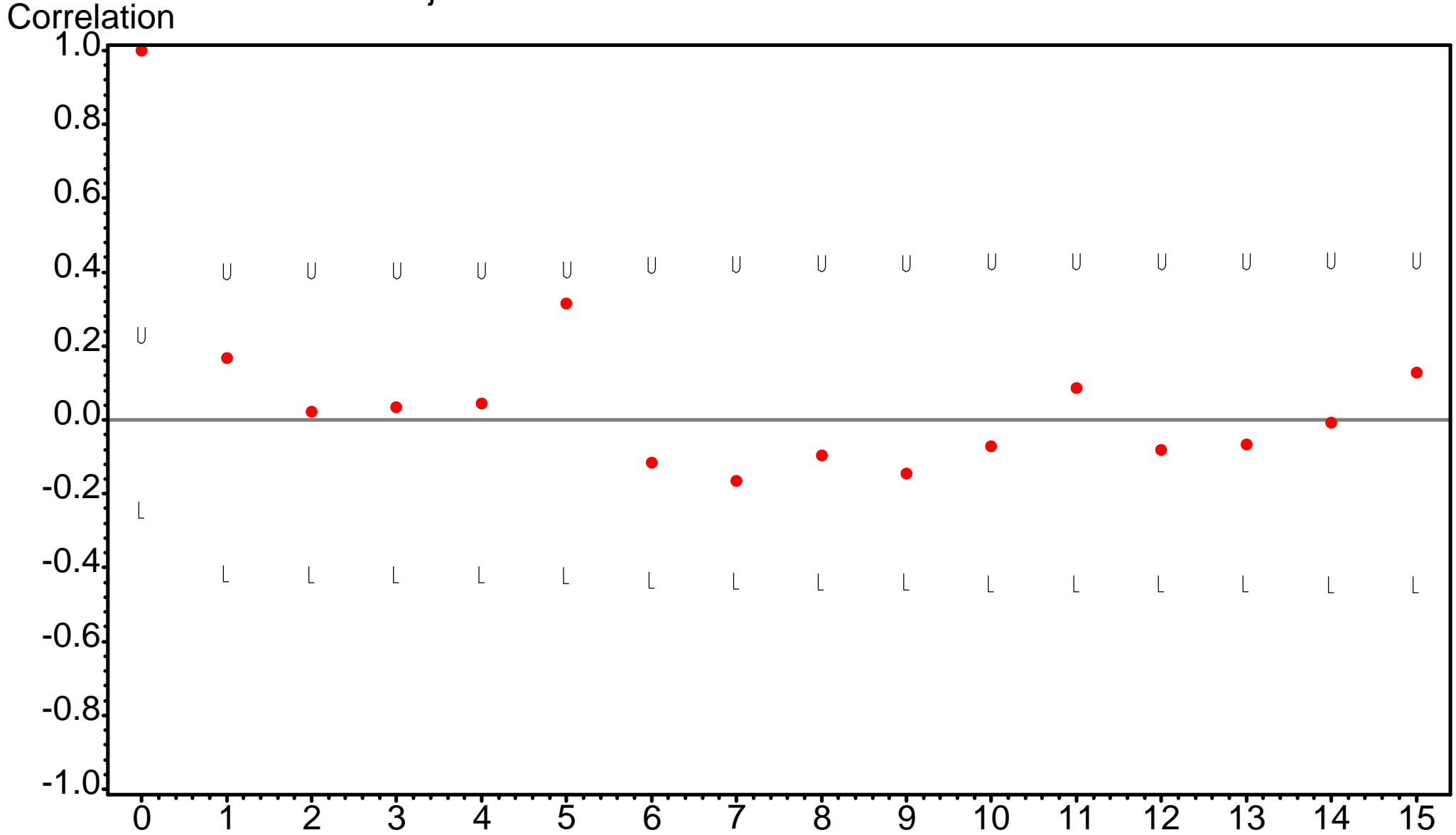
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.12258	0.28349	0.31806	0.53

Tidal Myakka Trends Appendix - Display 2009
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.167	0.204	0.408	-0.408
2	0.023	0.206	0.412	-0.412
3	0.035	0.206	0.412	-0.412
4	0.045	0.206	0.412	-0.412
5	0.316	0.206	0.413	-0.413
6	-0.115	0.213	0.426	-0.426
7	-0.165	0.214	0.428	-0.428
8	-0.096	0.216	0.431	-0.431
9	-0.144	0.216	0.432	-0.432
10	-0.071	0.217	0.435	-0.435
11	0.086	0.218	0.436	-0.436
12	-0.080	0.218	0.436	-0.436
13	-0.066	0.219	0.437	-0.437
14	-0.007	0.219	0.438	-0.438
15	0.129	0.219	0.438	-0.438

Tidal Myakka Trends Appendix - Display 2010

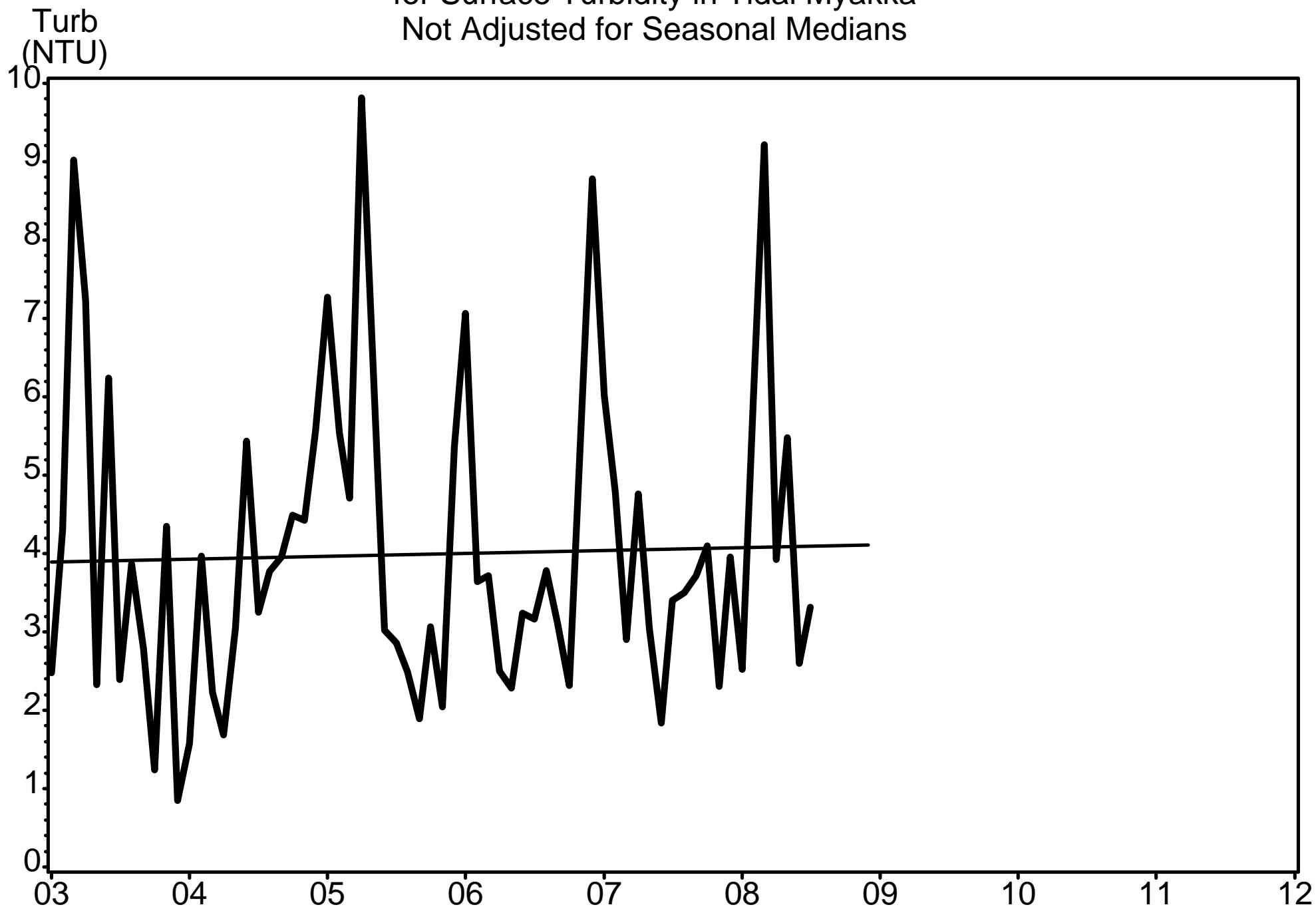
Correlogram for Surface Total Suspended Solids in Tidal Myakka Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 2011

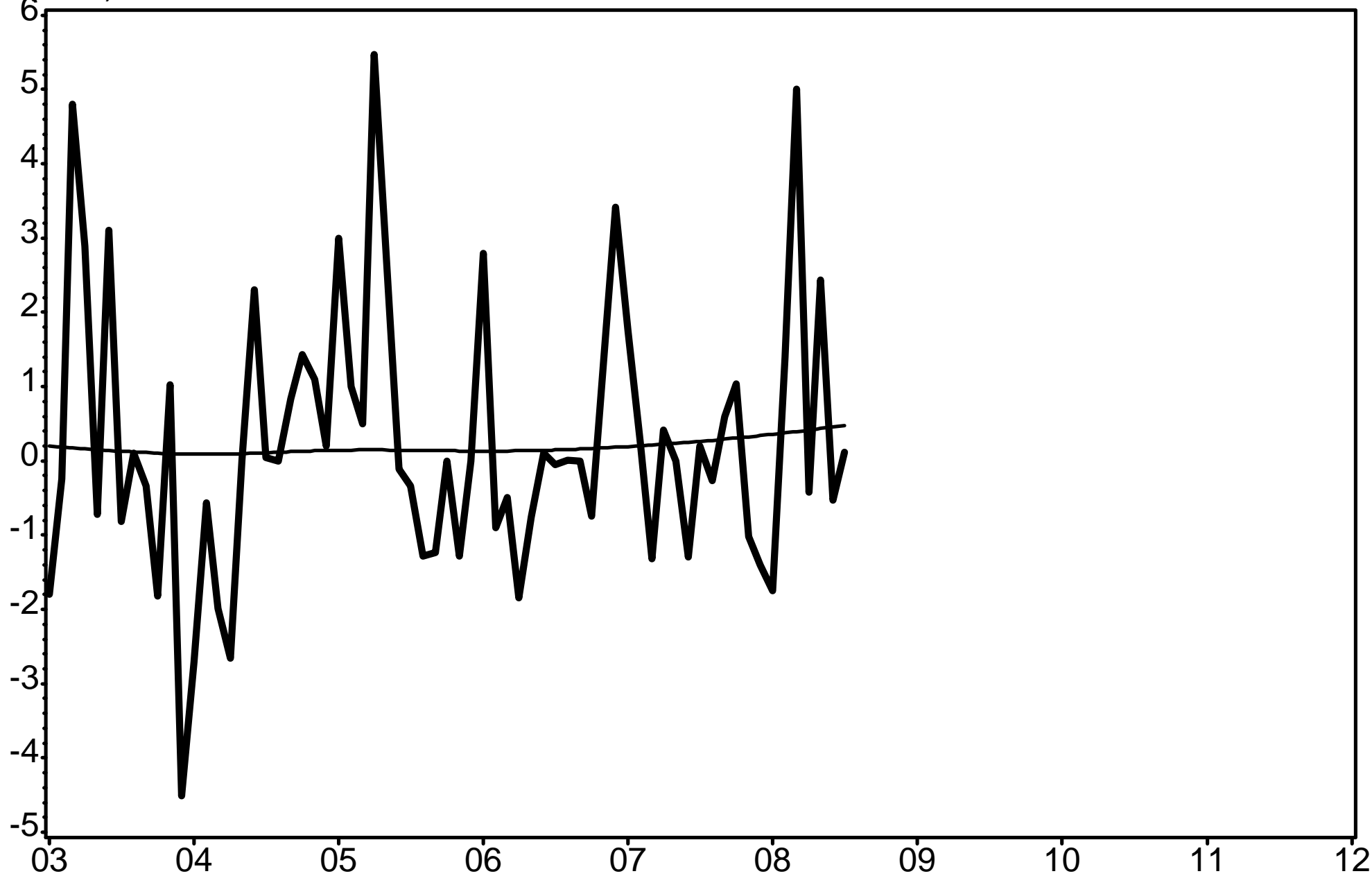
Monthly Data Time Series
for Surface Turbidity in Tidal Myakka
Not Adjusted for Seasonal Medians



Tidal Myakka Trends Appendix - Display 2012

Monthly Data Time Series
for Surface Turbidity in Tidal Myakka
Adjusted for Seasonal Medians

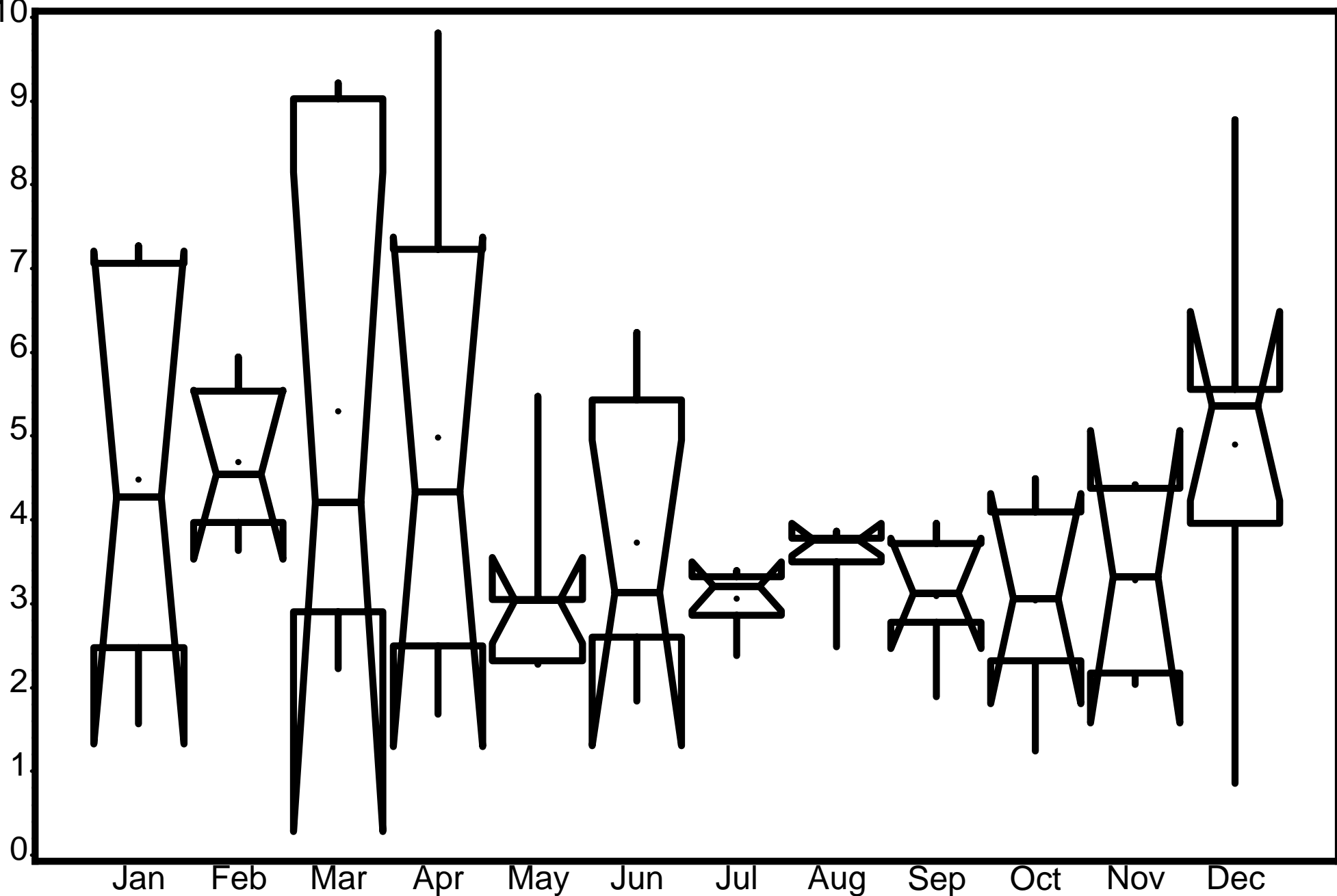
Adjusted
Turb
(NTU)



Tidal Myakka Trends Appendix - Display 2013

Seasonal Univariate Statistics for Surface Turbidity in Tidal Myakka

Turb
(NTU)



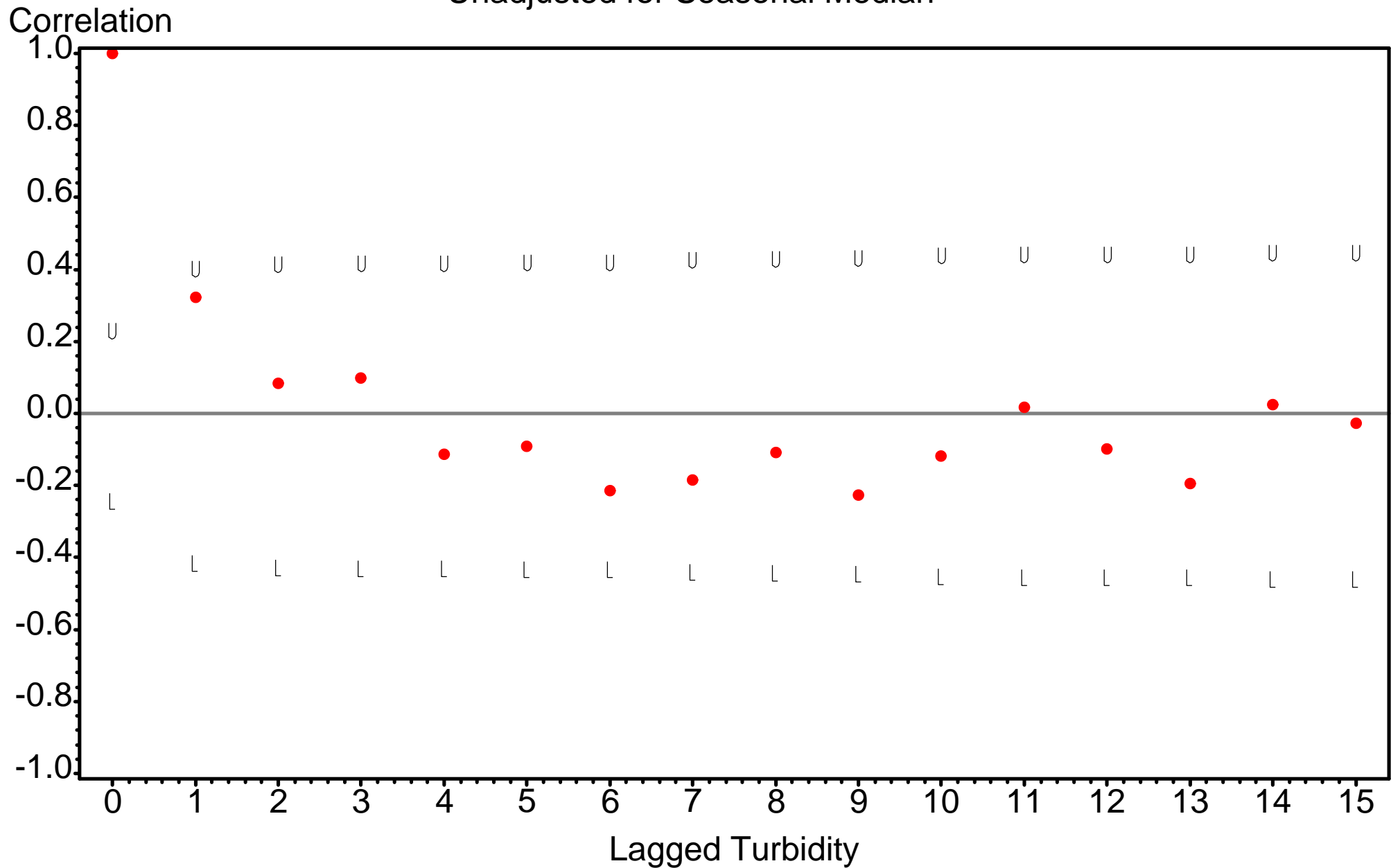
Tidal Myakka Trends Appendix - Display 2014

Autocorrelation Statistics for Surface Turbidity in Tidal Myakka

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.322	0.204	0.408	-0.408
2	0.084	0.211	0.422	-0.422
3	0.099	0.212	0.423	-0.423
4	-0.113	0.212	0.424	-0.424
5	-0.092	0.213	0.426	-0.426
6	-0.215	0.214	0.427	-0.427
7	-0.184	0.217	0.433	-0.433
8	-0.108	0.219	0.437	-0.437
9	-0.227	0.219	0.439	-0.439
10	-0.119	0.223	0.445	-0.445
11	0.018	0.224	0.447	-0.447
12	-0.099	0.224	0.447	-0.447
13	-0.194	0.224	0.448	-0.448
14	0.025	0.226	0.453	-0.453
15	-0.026	0.227	0.453	-0.453

Tidal Myakka Trends Appendix - Display 2015

Correlogram for Surface Turbidity in Tidal Myakka Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Myakka Trends Appendix - Display 2016
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Myakka
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.053	0.533	0.533	0.078

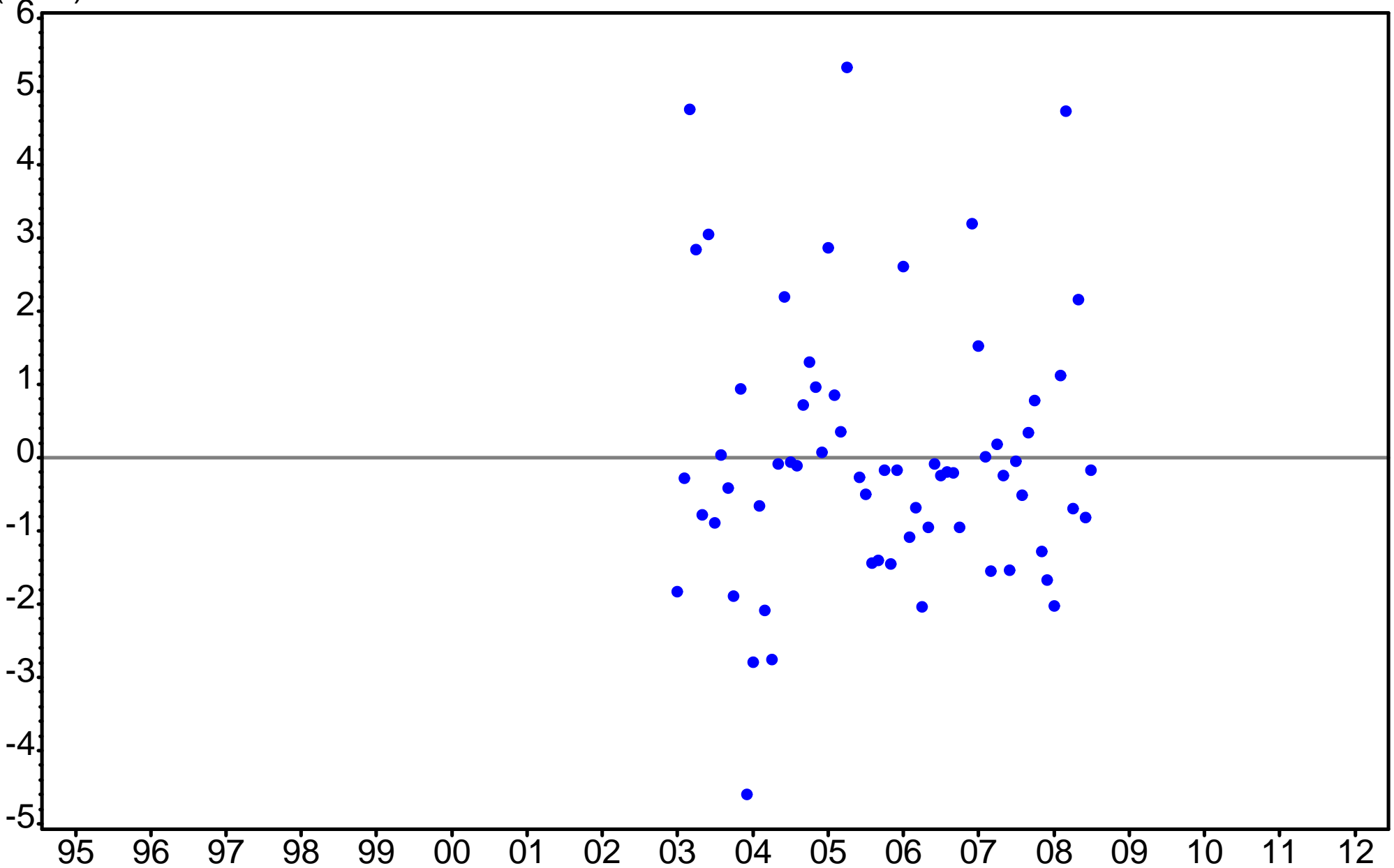
Tidal Myakka Trends Appendix - Display 2017
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Myakka
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.054795	0.66541	0.46389	0.0448

Tidal Myakka Trends Appendix - Display 2018

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Tidal Myakka

Adjusted
(NTU)



Zero Reference Line Shown

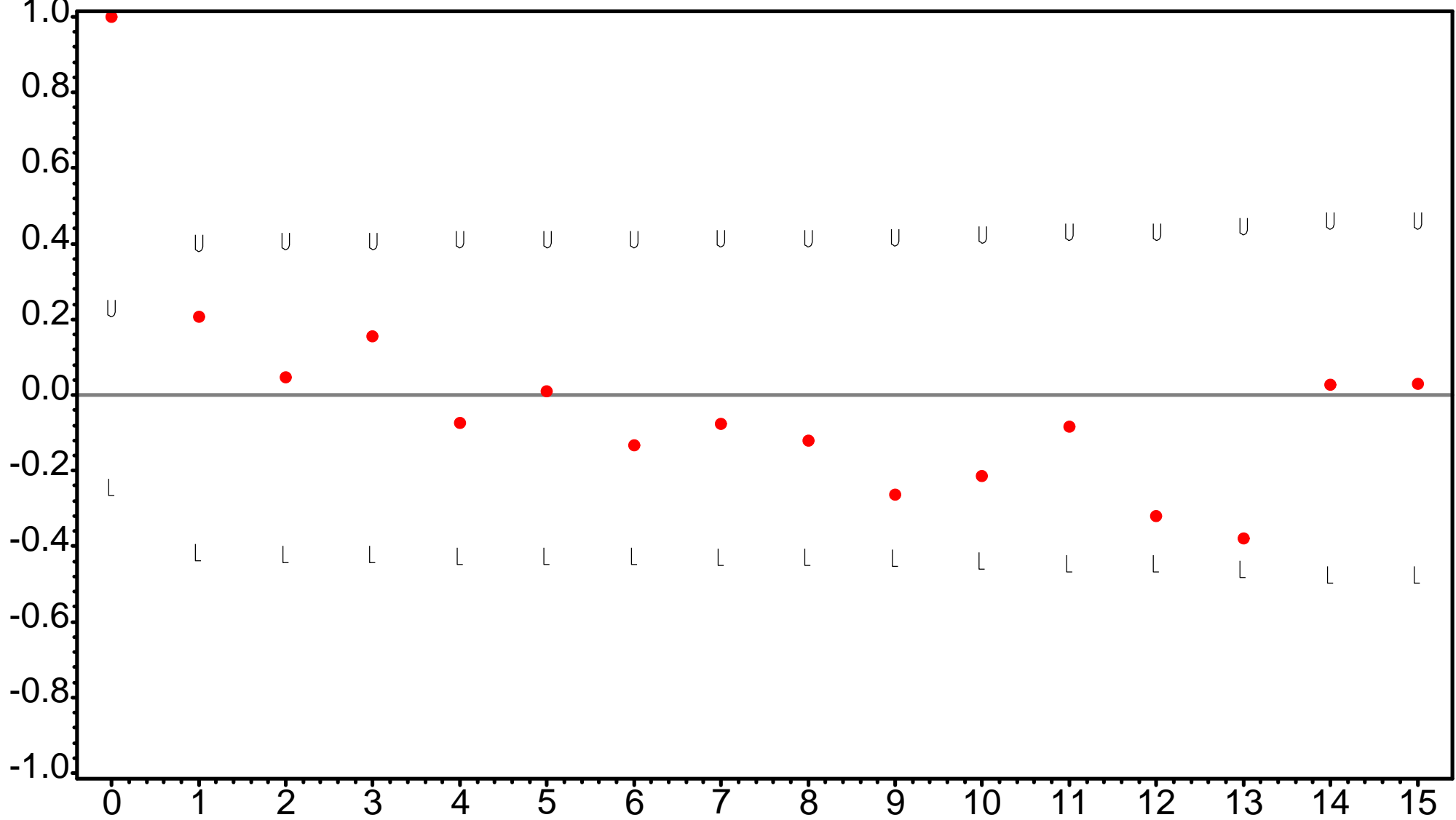
Tidal Myakka Trends Appendix - Display 2019
Autocorrelation Statistics for Surface Turbidity in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.207	0.204	0.408	-0.408
2	0.047	0.207	0.414	-0.414
3	0.156	0.207	0.414	-0.414
4	-0.073	0.209	0.418	-0.418
5	0.009	0.209	0.418	-0.418
6	-0.133	0.209	0.418	-0.418
7	-0.077	0.210	0.421	-0.421
8	-0.121	0.211	0.421	-0.421
9	-0.264	0.212	0.423	-0.423
10	-0.215	0.216	0.432	-0.432
11	-0.083	0.219	0.438	-0.438
12	-0.320	0.220	0.439	-0.439
13	-0.379	0.226	0.452	-0.452
14	0.027	0.235	0.469	-0.469
15	0.030	0.235	0.469	-0.469

Tidal Myakka Trends Appendix - Display 2020

Correlogram for Surface Turbidity in Tidal Myakka
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Turbidity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

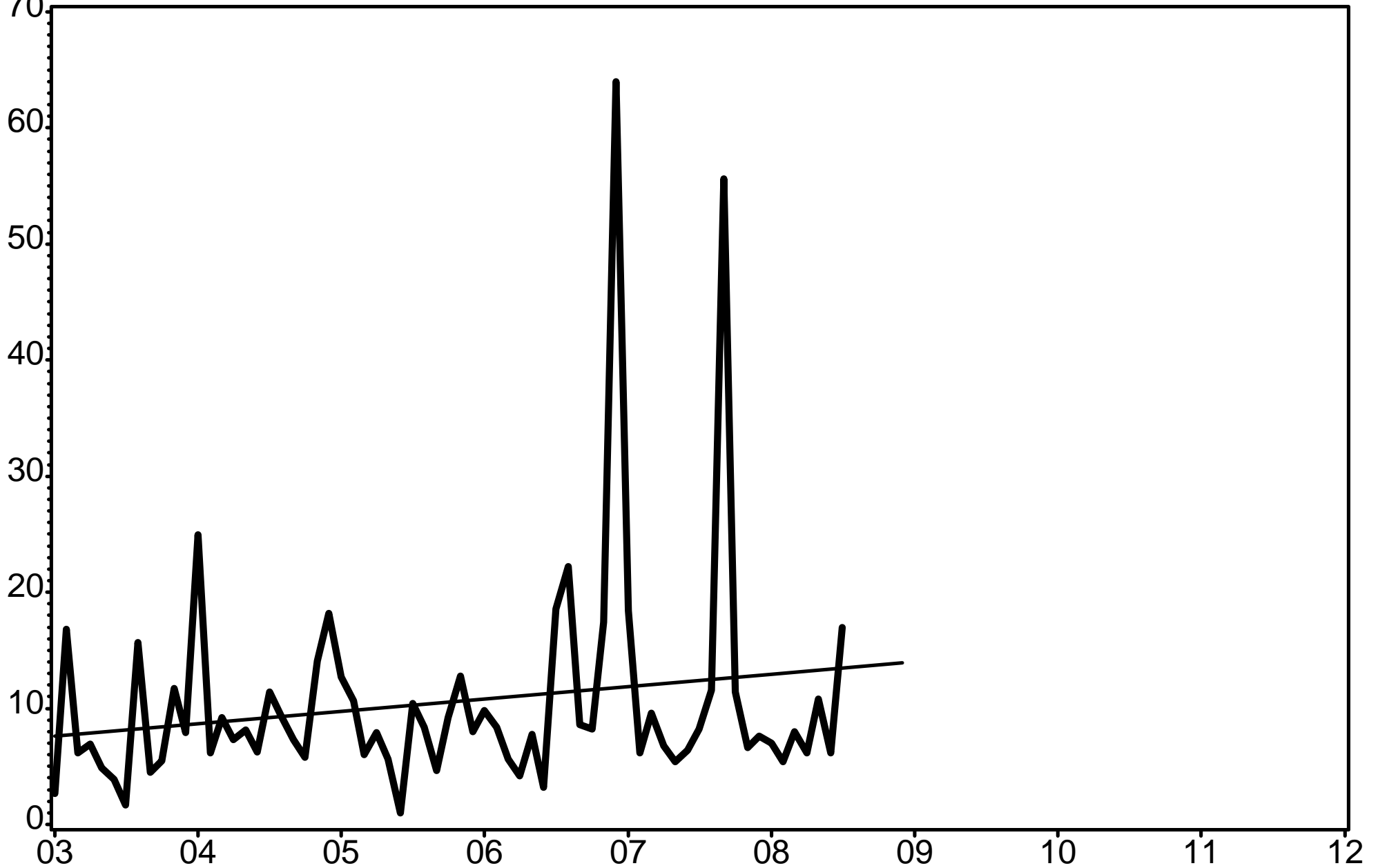
Tidal Peace Trends Appendix - Display 2021

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Peace

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



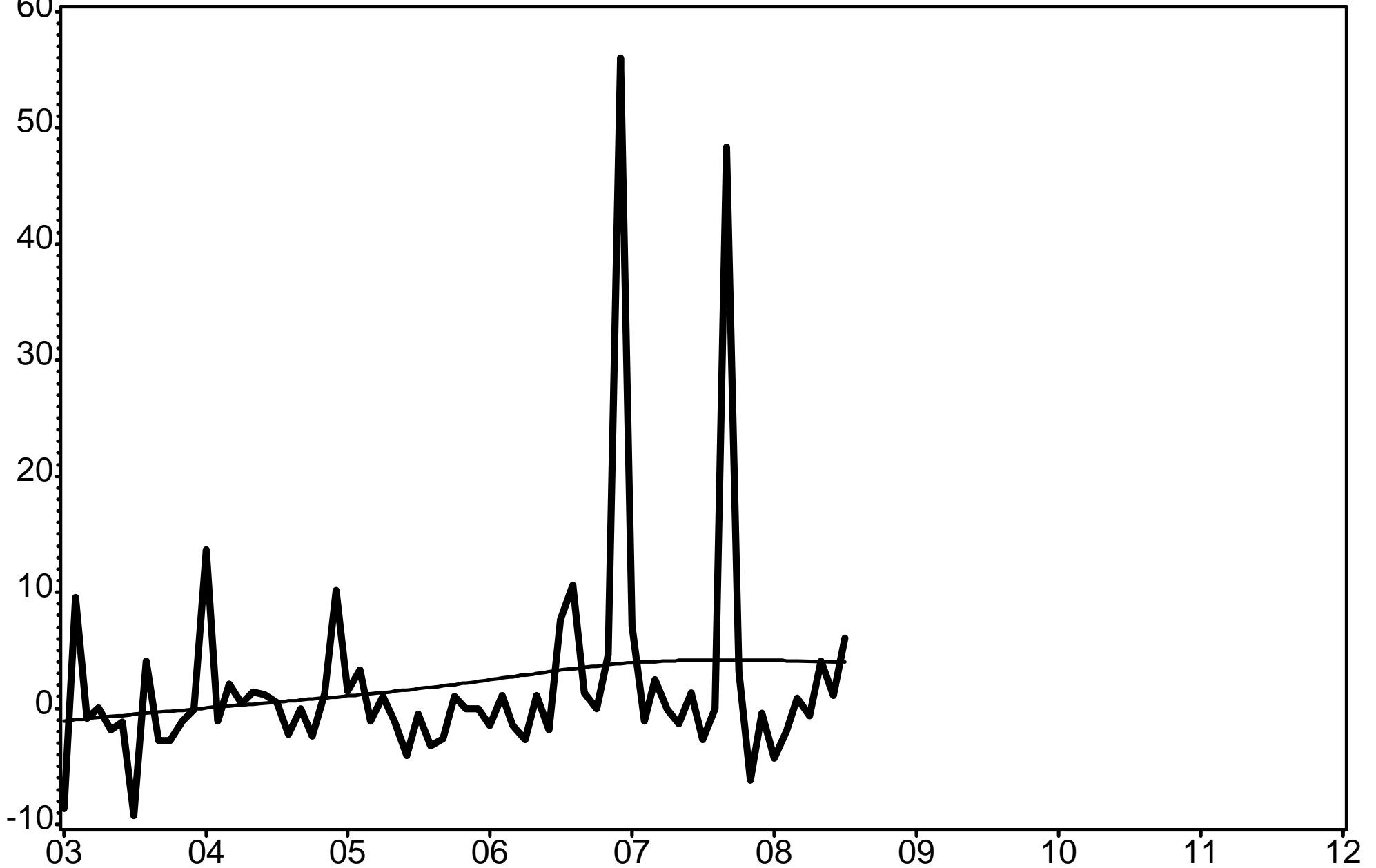
Tidal Peace Trends Appendix - Display 2022

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

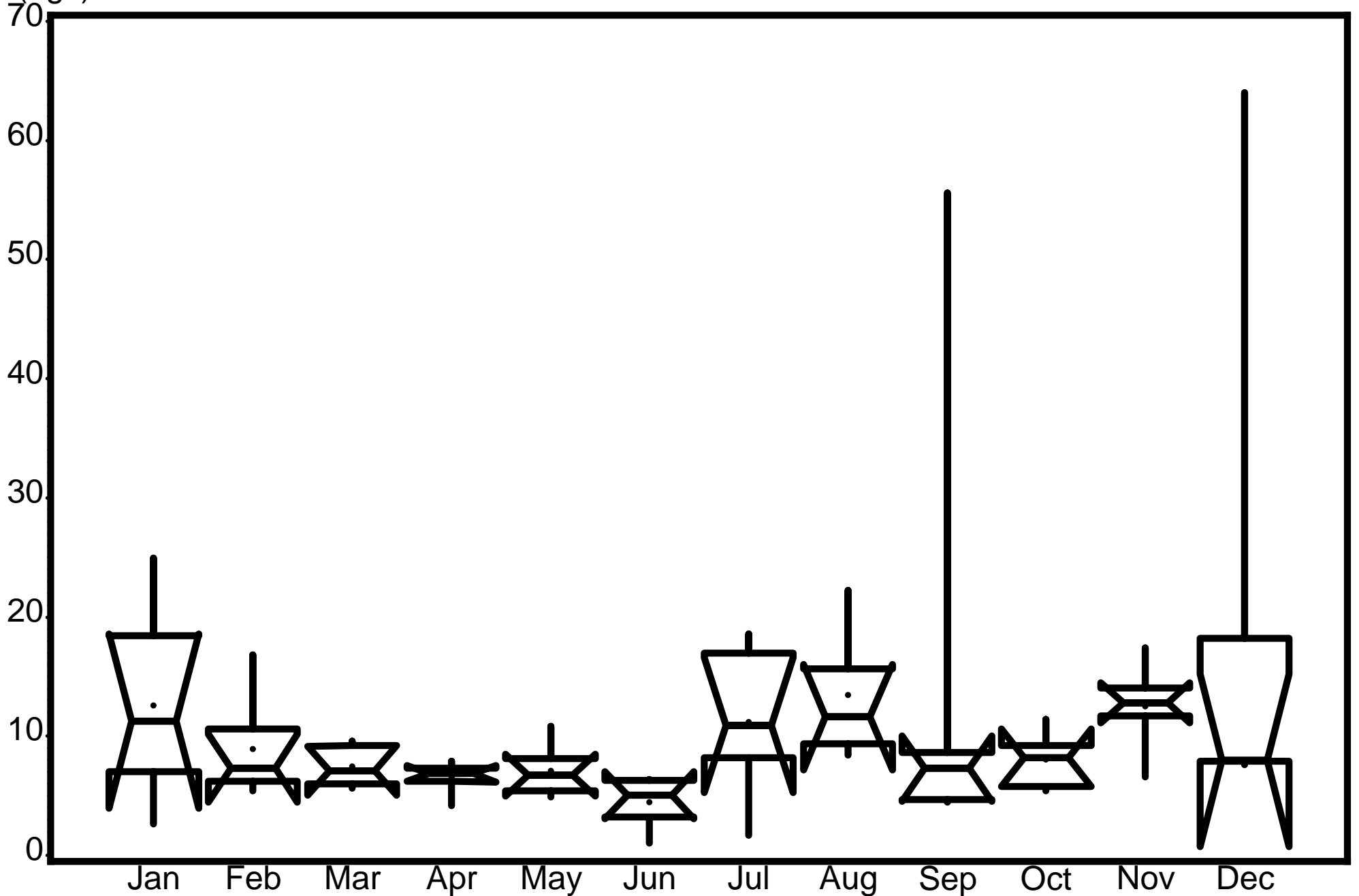


Tidal Peace Trends Appendix - Display 2023

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Tidal Peace

CHLAC_ugl
(ug/l)

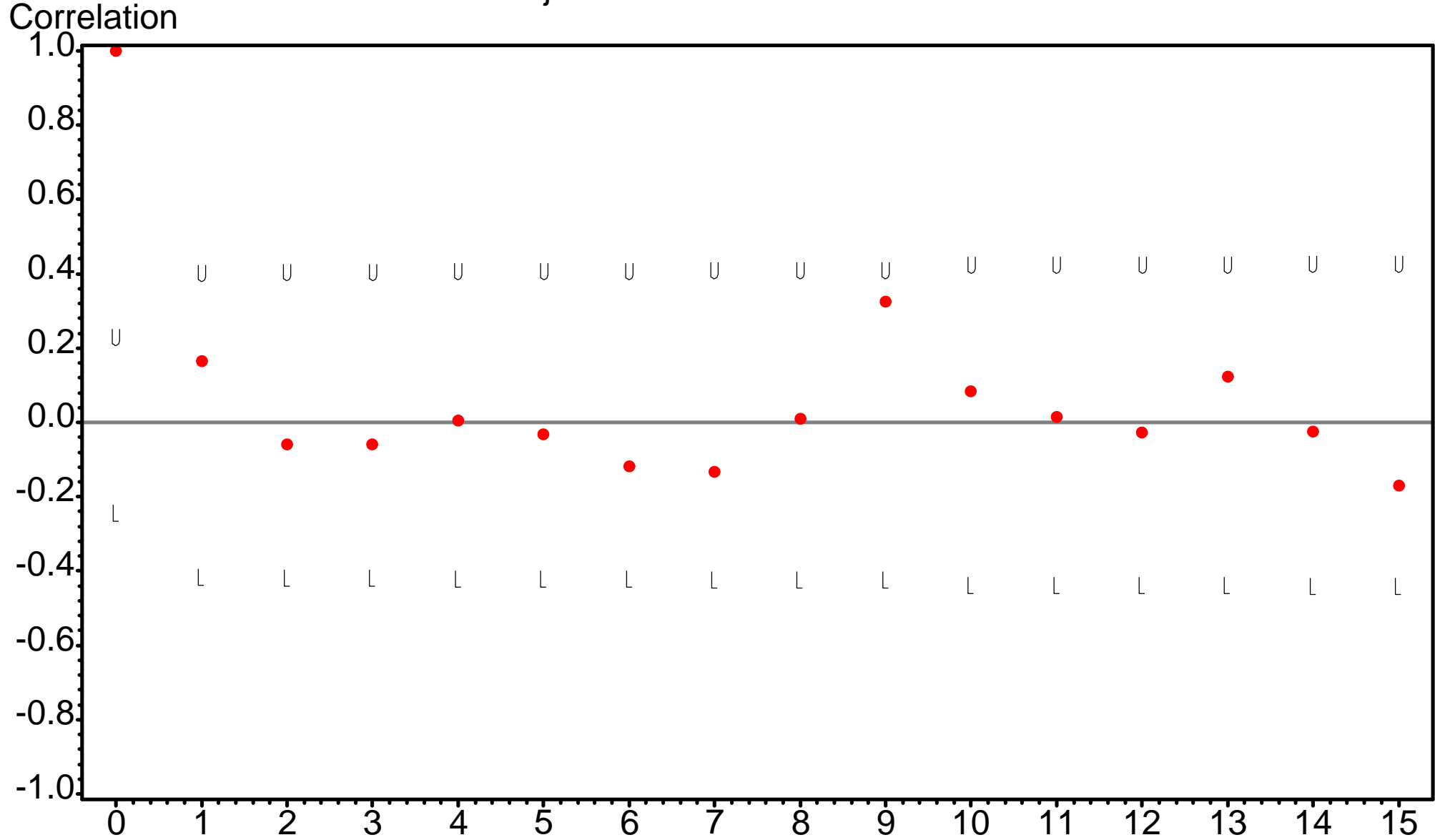


Tidal Peace Trends Appendix - Display 2024
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Peace

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.164	0.204	0.408	-0.408
2	-0.060	0.206	0.412	-0.412
3	-0.059	0.206	0.412	-0.412
4	0.005	0.206	0.413	-0.413
5	-0.032	0.206	0.413	-0.413
6	-0.117	0.207	0.413	-0.413
7	-0.134	0.207	0.415	-0.415
8	0.009	0.209	0.417	-0.417
9	0.326	0.209	0.417	-0.417
10	0.083	0.216	0.431	-0.431
11	0.015	0.216	0.432	-0.432
12	-0.026	0.216	0.432	-0.432
13	0.122	0.216	0.432	-0.432
14	-0.025	0.217	0.434	-0.434
15	-0.170	0.217	0.434	-0.434

Tidal Peace Trends Appendix - Display 2025

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Peace Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2026
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.1	0.236	0.236	0.343

Tidal Peace Trends Appendix - Display 2027
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Tidal Peace
Adjusted for Seasonal Medians

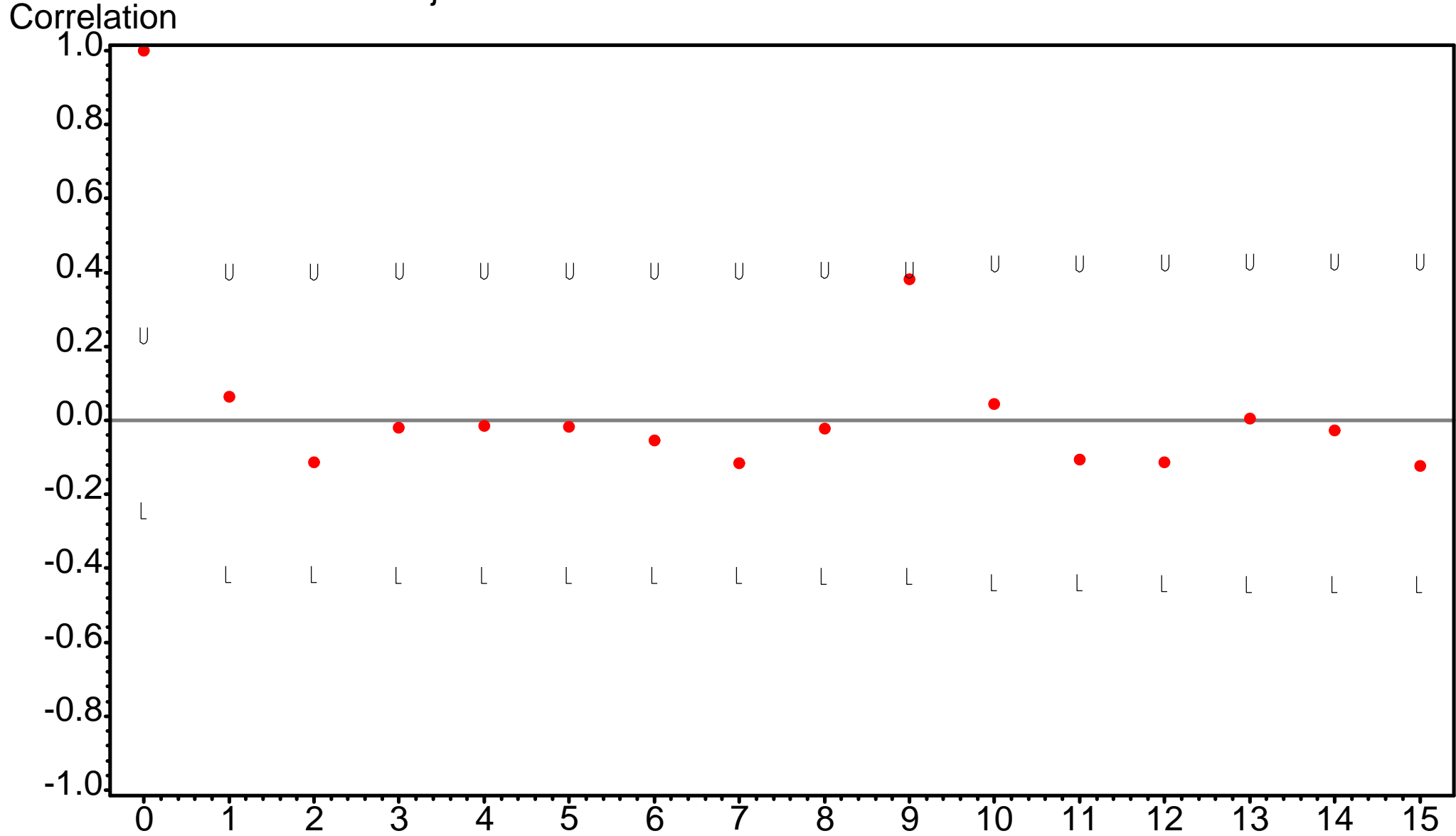
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.096774	0.40418	0.42875	0.358

Tidal Peace Trends Appendix - Display 2029
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.065	0.204	0.408	-0.408
2	-0.112	0.204	0.409	-0.409
3	-0.019	0.205	0.411	-0.411
4	-0.014	0.205	0.411	-0.411
5	-0.016	0.205	0.411	-0.411
6	-0.053	0.205	0.411	-0.411
7	-0.115	0.206	0.411	-0.411
8	-0.023	0.206	0.413	-0.413
9	0.381	0.206	0.413	-0.413
10	0.044	0.216	0.432	-0.432
11	-0.105	0.216	0.432	-0.432
12	-0.113	0.217	0.434	-0.434
13	0.004	0.218	0.435	-0.435
14	-0.027	0.218	0.435	-0.435
15	-0.122	0.218	0.435	-0.435

Tidal Peace Trends Appendix - Display 2030

Correlogram for Surface Chlorophyll-a (Corrected) in Tidal Peace Adjusted for Seasonal Median and Detrended



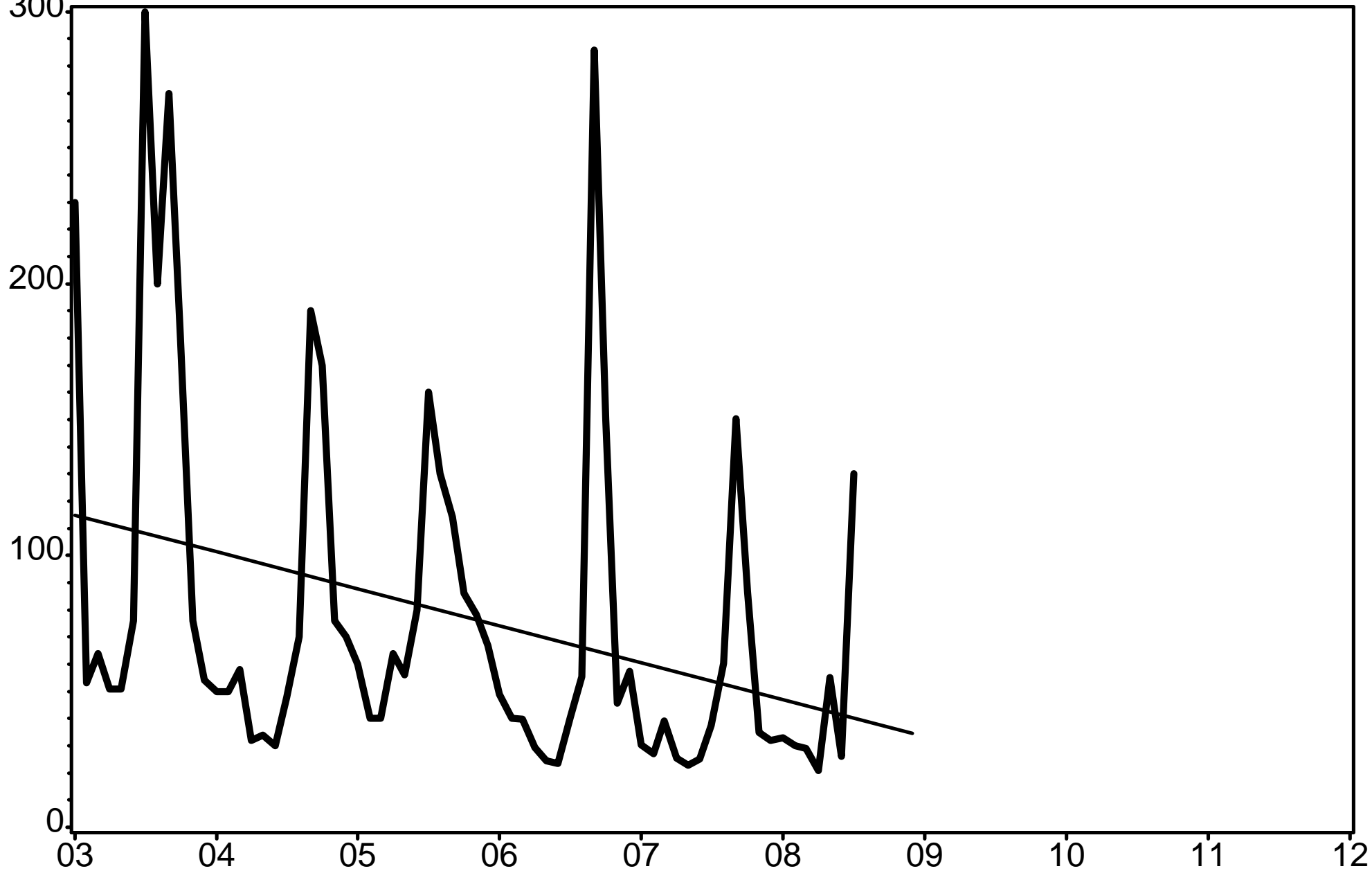
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2031

Monthly Data Time Series
for Surface Color in Tidal Peace
Not Adjusted for Seasonal Medians

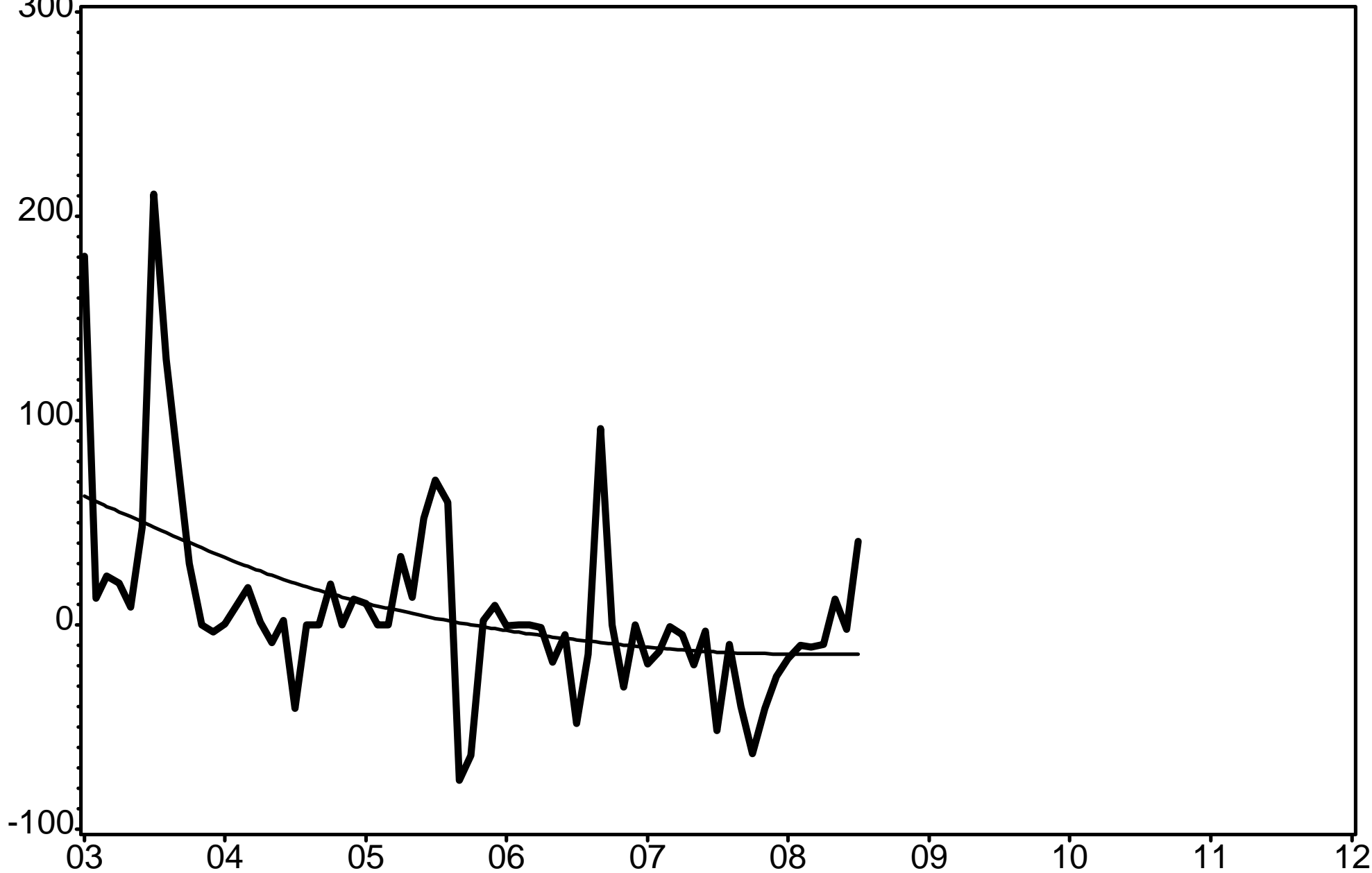
COLOR
(PCU)



Tidal Peace Trends Appendix - Display 2032

Monthly Data Time Series
for Surface Color in Tidal Peace
Adjusted for Seasonal Medians

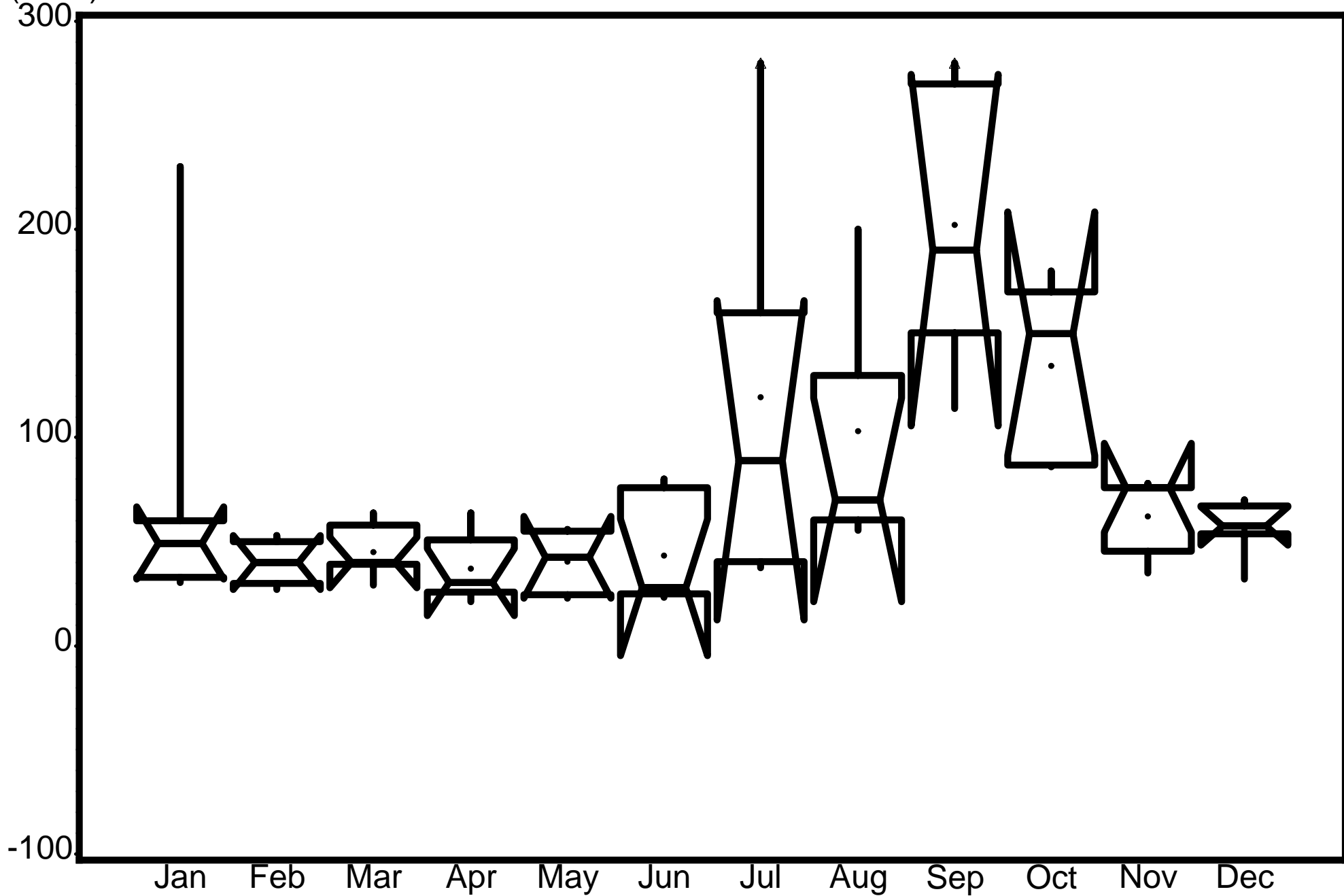
Adjusted
COLOR
(PCU)



Tidal Peace Trends Appendix - Display 2033

Seasonal Univariate Statistics
for Surface Color in Tidal Peace

COLOR
(PCU)

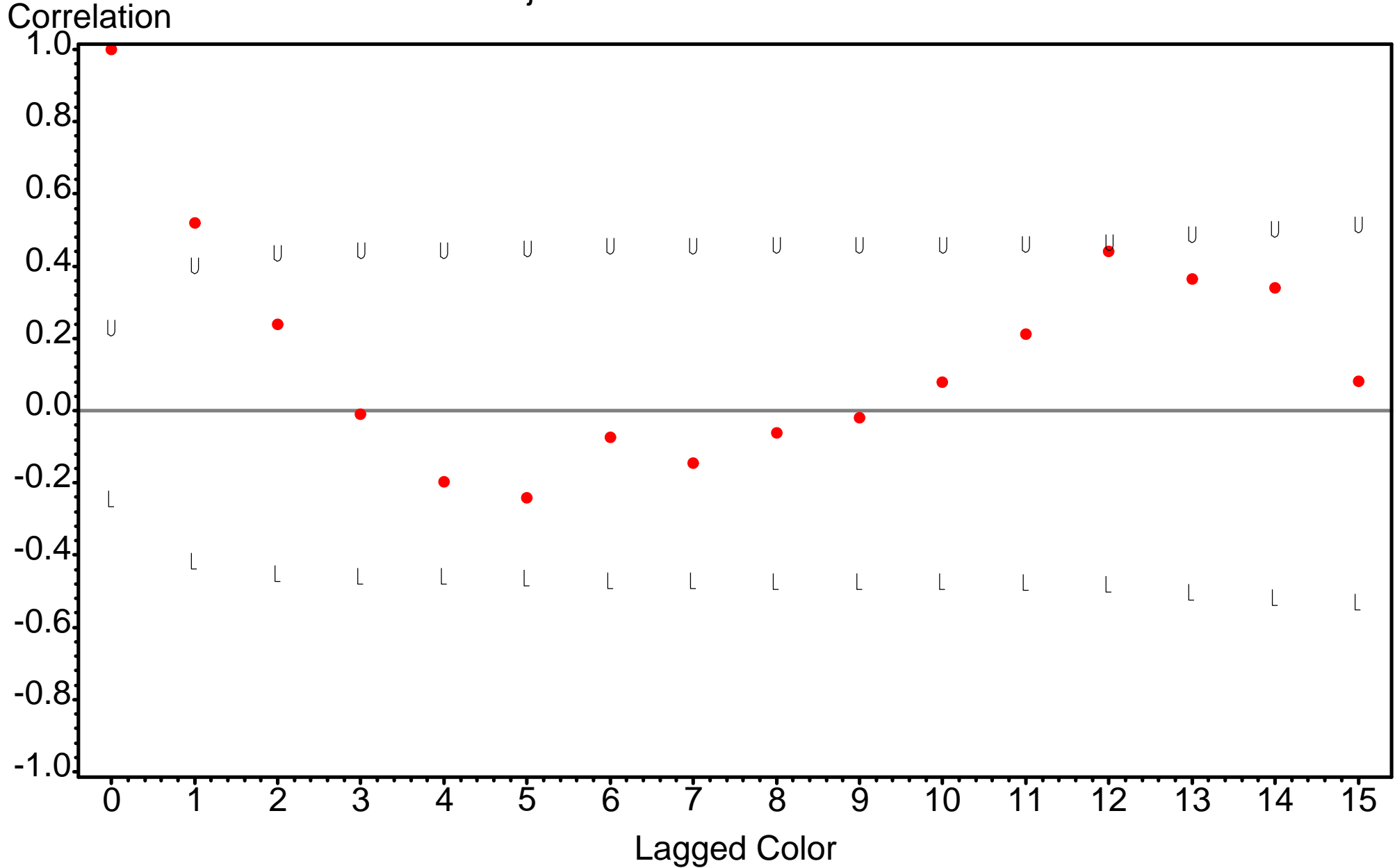


Tidal Peace Trends Appendix - Display 2034
Autocorrelation Statistics for Surface Color in Tidal Peace

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.519	0.204	0.408	-0.408
2	0.239	0.222	0.443	-0.443
3	-0.010	0.225	0.450	-0.450
4	-0.197	0.225	0.450	-0.450
5	-0.242	0.228	0.455	-0.455
6	-0.075	0.231	0.462	-0.462
7	-0.144	0.232	0.463	-0.463
8	-0.061	0.233	0.465	-0.465
9	-0.020	0.233	0.466	-0.466
10	0.079	0.233	0.466	-0.466
11	0.213	0.233	0.467	-0.467
12	0.440	0.236	0.472	-0.472
13	0.365	0.247	0.494	-0.494
14	0.340	0.255	0.509	-0.509
15	0.081	0.261	0.522	-0.522

Tidal Peace Trends Appendix - Display 2035

Correlogram for Surface Color in Tidal Peace Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2036
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.313	0	0	-7.855

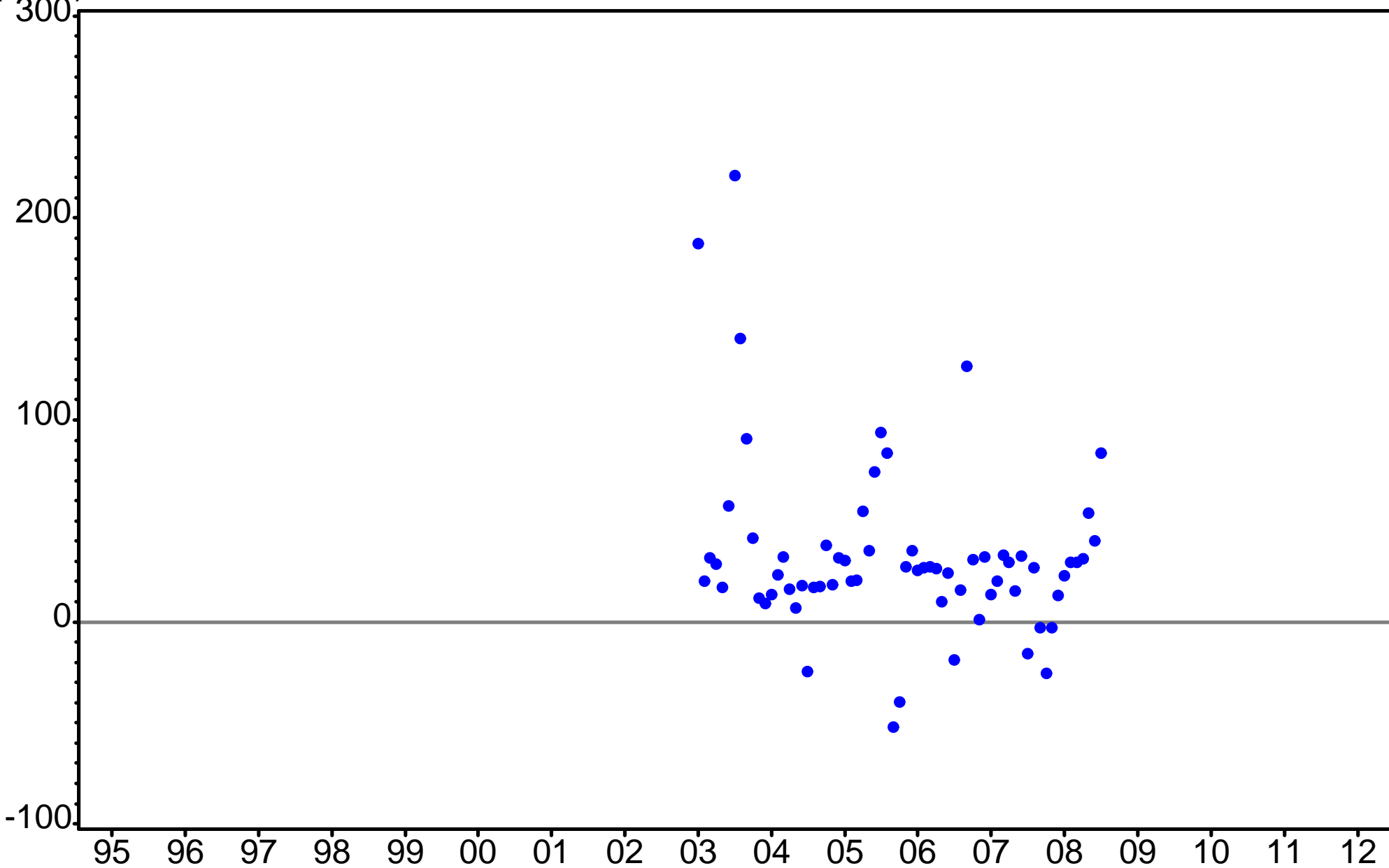
Tidal Peace Trends Appendix - Display 2037
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.55484	.000000411	0.036843	-6.53333

Tidal Peace Trends Appendix - Display 2038

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(PCU)
300



Zero Reference Line Shown

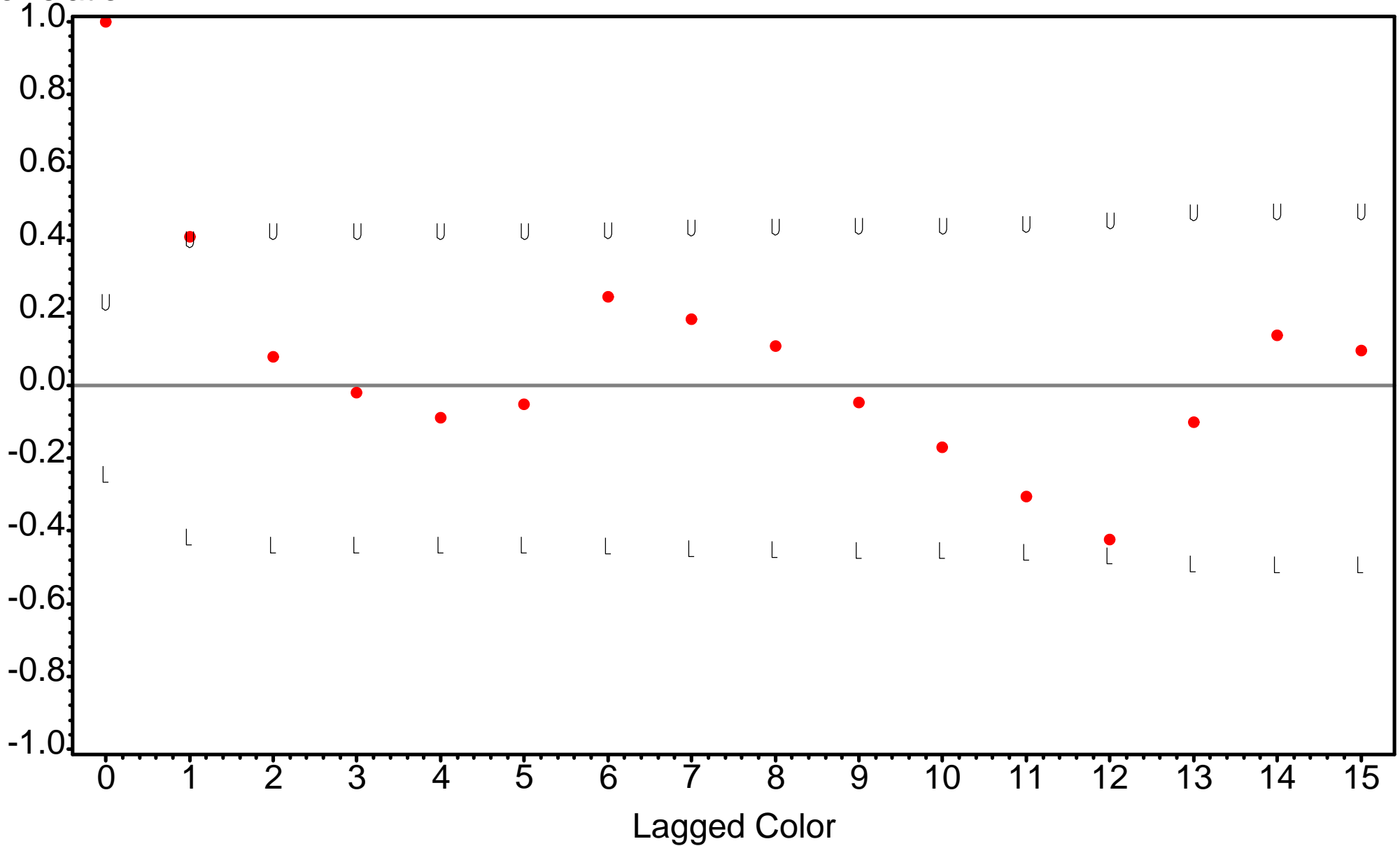
Tidal Peace Trends Appendix - Display 2039
Autocorrelation Statistics for Surface Color in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.409	0.204	0.408	-0.408
2	0.080	0.215	0.430	-0.430
3	-0.020	0.216	0.431	-0.431
4	-0.089	0.216	0.431	-0.431
5	-0.051	0.216	0.432	-0.432
6	0.244	0.216	0.433	-0.433
7	0.183	0.220	0.440	-0.440
8	0.108	0.222	0.444	-0.444
9	-0.046	0.223	0.446	-0.446
10	-0.169	0.223	0.446	-0.446
11	-0.306	0.225	0.450	-0.450
12	-0.424	0.231	0.461	-0.461
13	-0.100	0.241	0.482	-0.482
14	0.137	0.242	0.484	-0.484
15	0.095	0.243	0.486	-0.486

Tidal Peace Trends Appendix - Display 2040

Correlogram for Surface Color in Tidal Peace
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

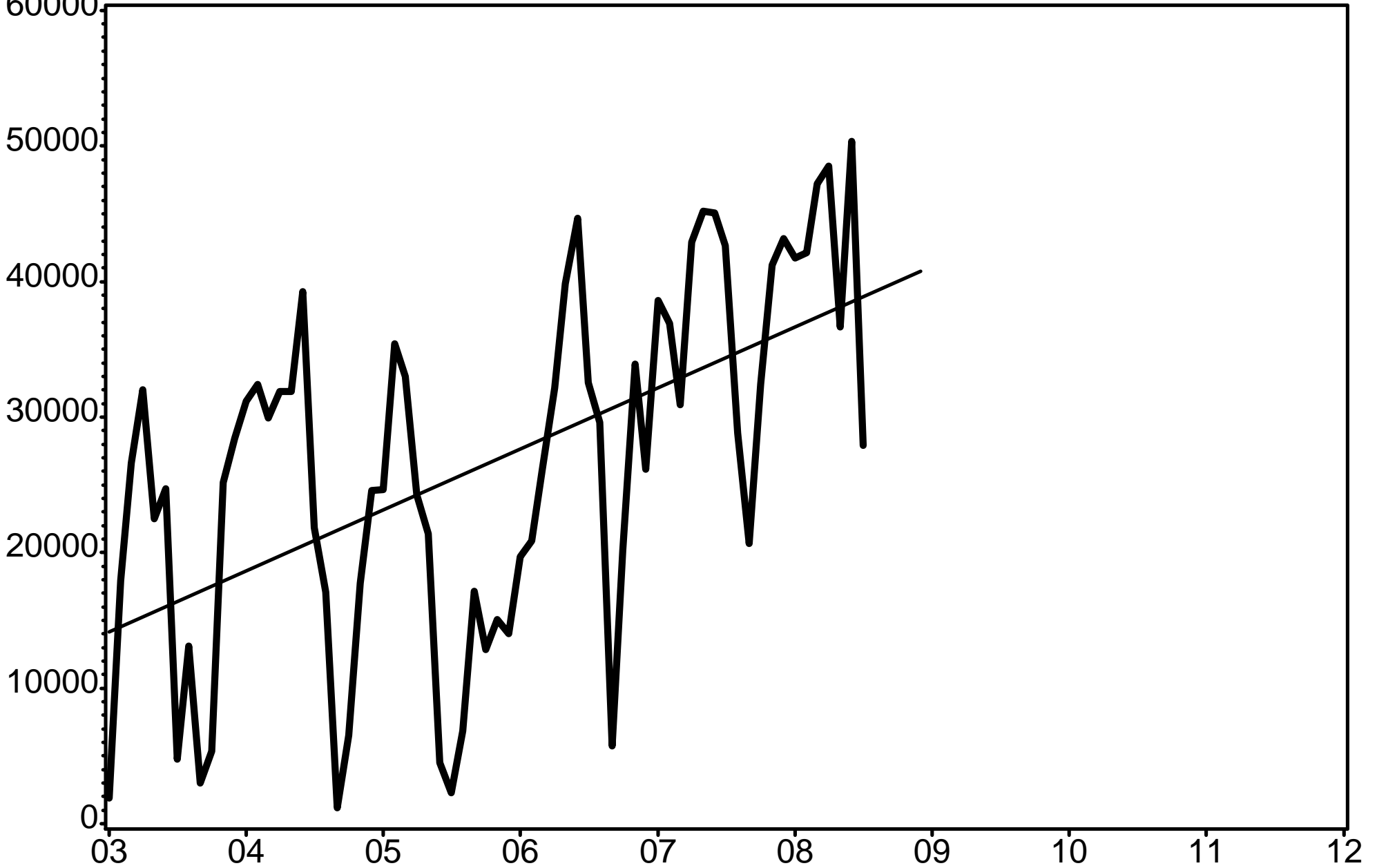
Tidal Peace Trends Appendix - Display 2041

Monthly Data Time Series

for Surface Specific Conductance in Tidal Peace

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



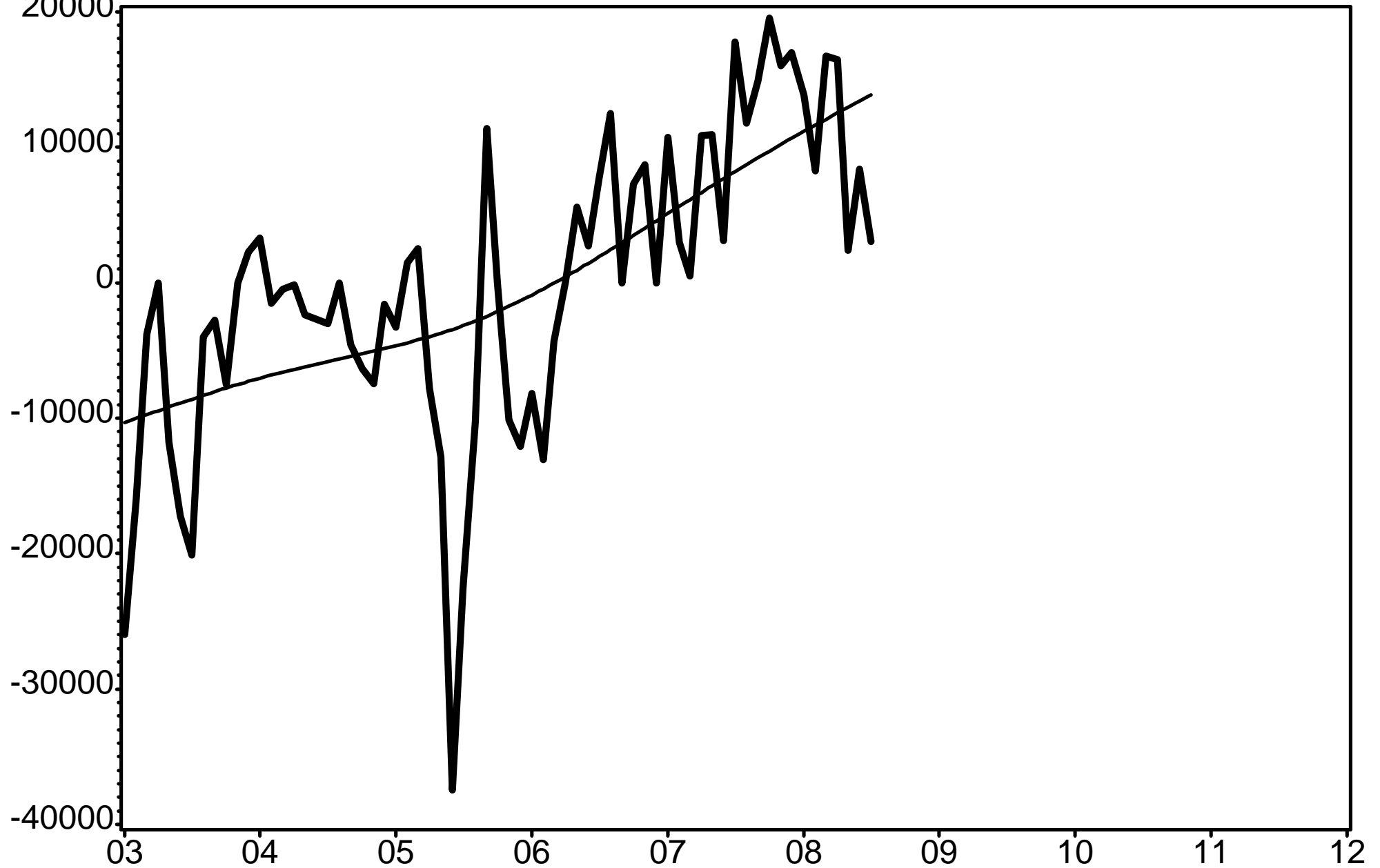
Tidal Peace Trends Appendix - Display 2042

Monthly Data Time Series

for Surface Specific Conductance in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000

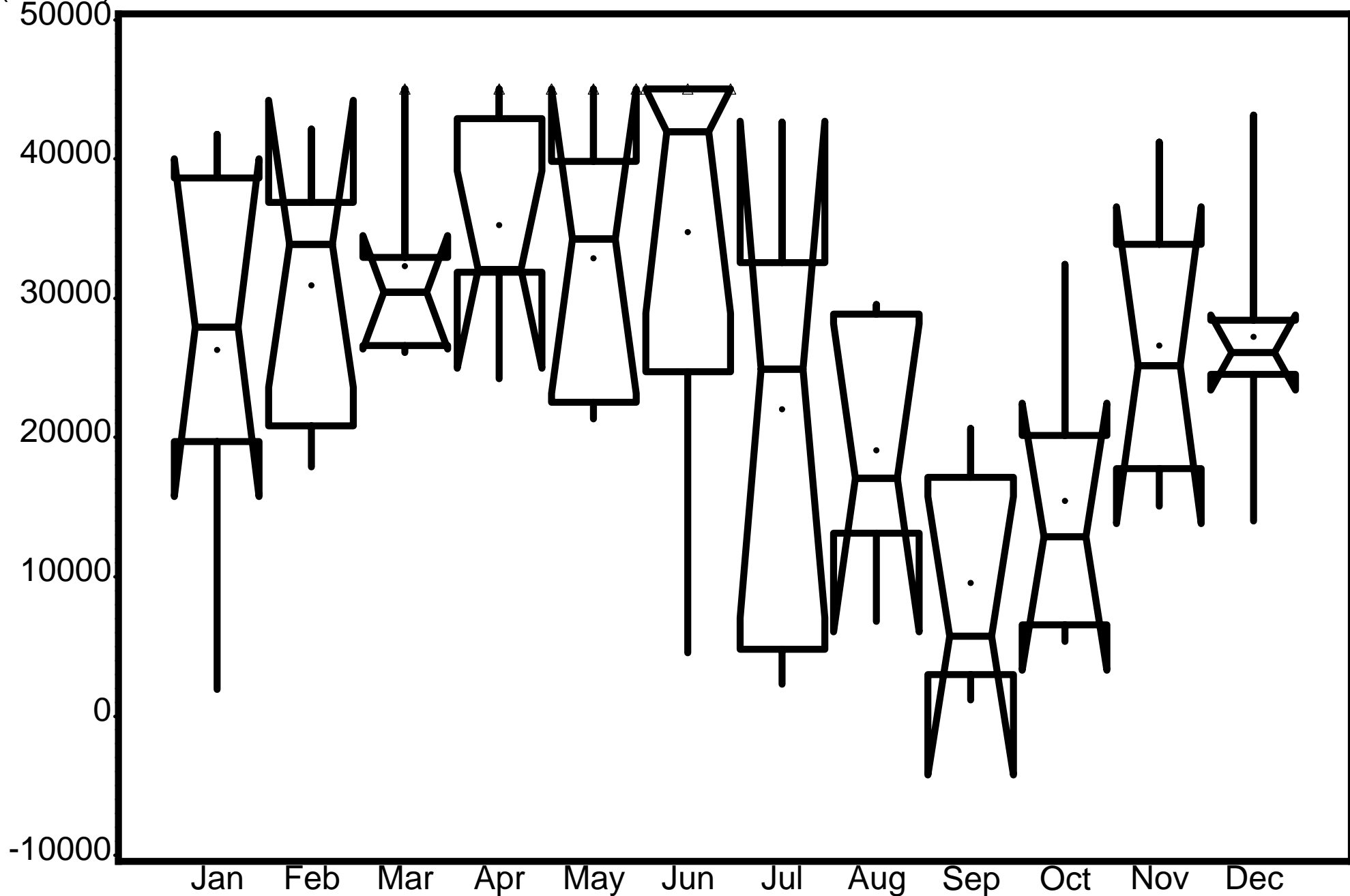


Tidal Peace Trends Appendix - Display 2043

Seasonal Univariate Statistics

for Surface Specific Conductance in Tidal Peace

COND
(uS/cm)

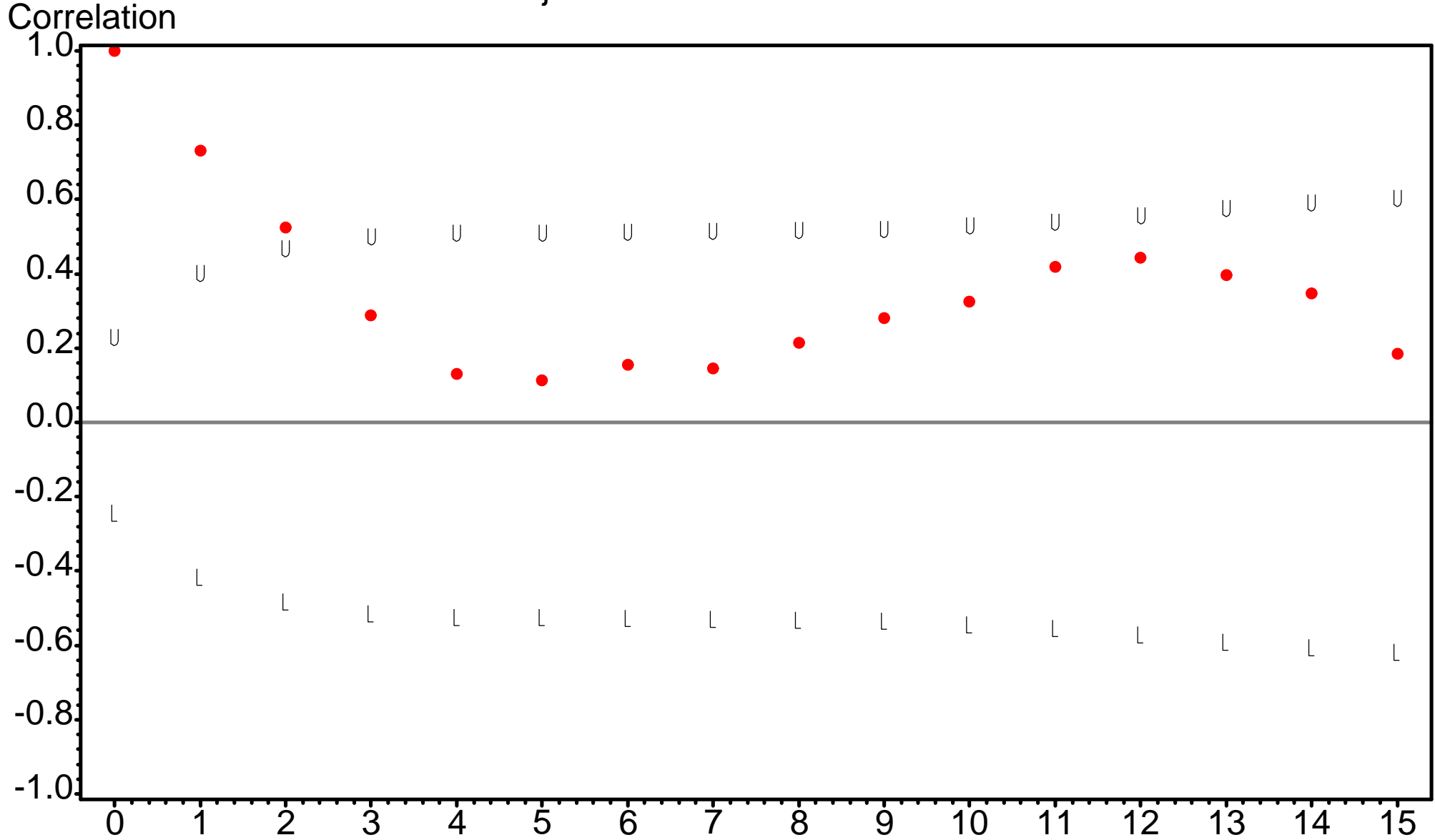


Tidal Peace Trends Appendix - Display 2044
 Autocorrelation Statistics for Surface Specific Conductance in Tidal Peace

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.731	0.204	0.408	-0.408
2	0.525	0.238	0.475	-0.475
3	0.287	0.253	0.507	-0.507
4	0.130	0.258	0.516	-0.516
5	0.113	0.259	0.517	-0.517
6	0.155	0.259	0.519	-0.519
7	0.145	0.261	0.521	-0.521
8	0.215	0.262	0.524	-0.524
9	0.281	0.264	0.528	-0.528
10	0.324	0.268	0.537	-0.537
11	0.419	0.274	0.547	-0.547
12	0.442	0.282	0.565	-0.565
13	0.397	0.292	0.584	-0.584
14	0.347	0.299	0.599	-0.599
15	0.185	0.305	0.610	-0.610

Tidal Peace Trends Appendix - Display 2045

Correlogram for Surface Specific Conductance in Tidal Peace Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2046
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.399	0	0	4644.31

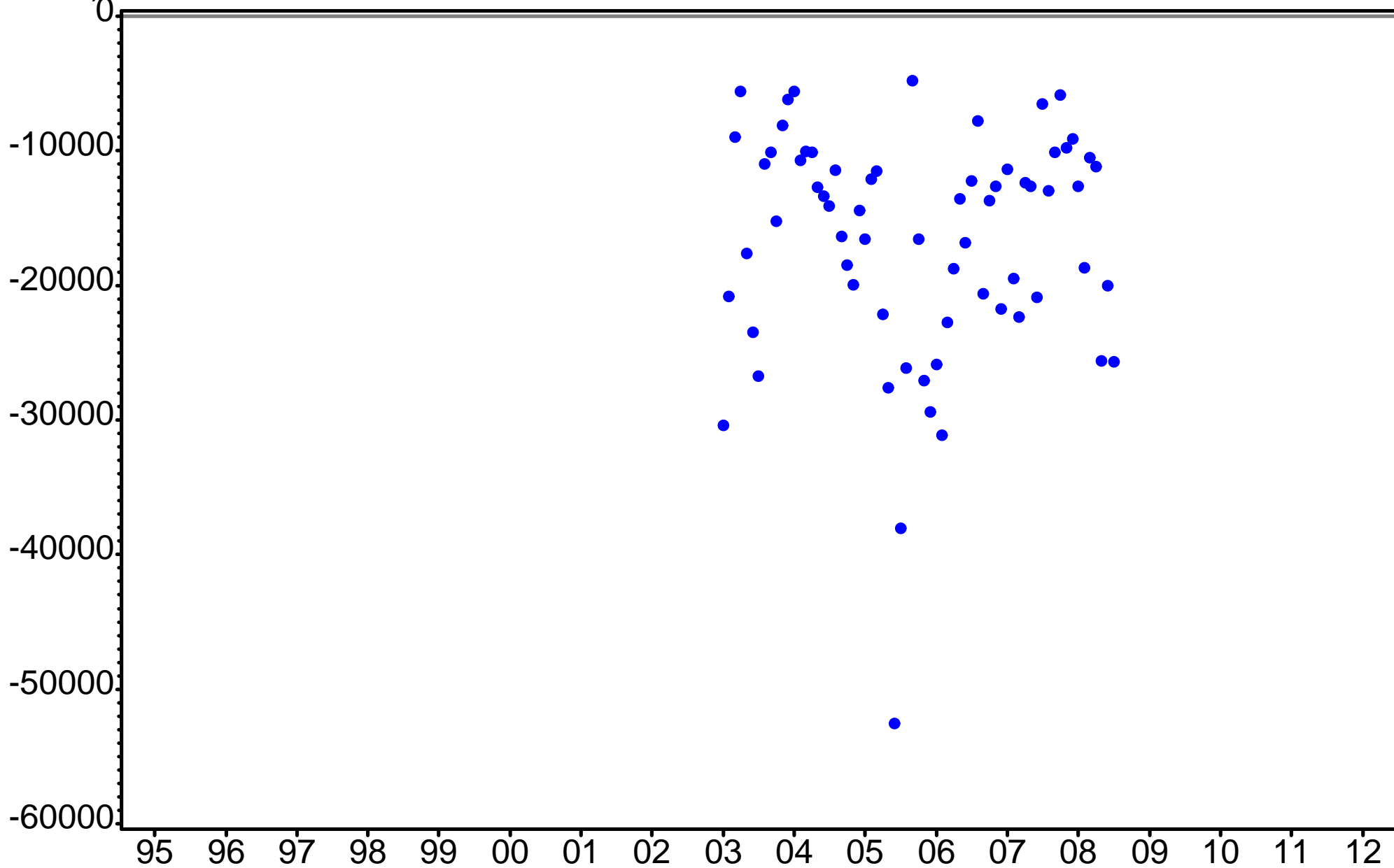
Tidal Peace Trends Appendix - Display 2047
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.56129	.000000358	0.036978	4422

Tidal Peace Trends Appendix - Display 2048

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Adjusted Tidal Peace

Adjusted
(uS/cm)



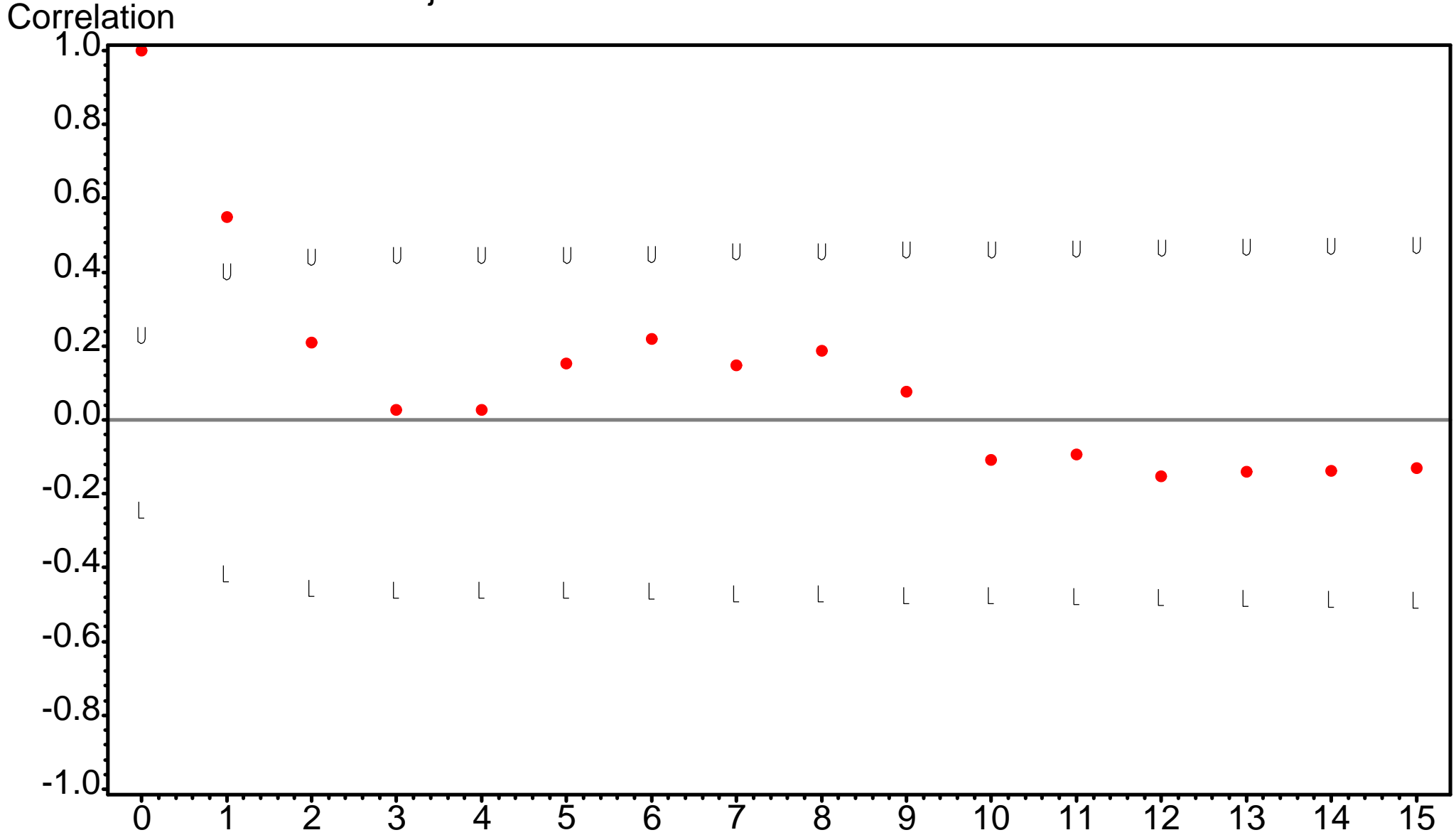
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2049
Autocorrelation Statistics for Surface Specific Conductance in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.549	0.204	0.408	-0.408
2	0.209	0.224	0.447	-0.447
3	0.028	0.226	0.453	-0.453
4	0.027	0.226	0.453	-0.453
5	0.153	0.226	0.453	-0.453
6	0.220	0.228	0.456	-0.456
7	0.148	0.231	0.462	-0.462
8	0.188	0.232	0.464	-0.464
9	0.076	0.234	0.469	-0.469
10	-0.109	0.235	0.469	-0.469
11	-0.094	0.235	0.471	-0.471
12	-0.153	0.236	0.472	-0.472
13	-0.141	0.237	0.474	-0.474
14	-0.139	0.238	0.477	-0.477
15	-0.131	0.239	0.479	-0.479

Tidal Peace Trends Appendix - Display 2050

Correlogram for Surface Specific Conductance in Tidal Peace Adjusted for Seasonal Median and Detrended



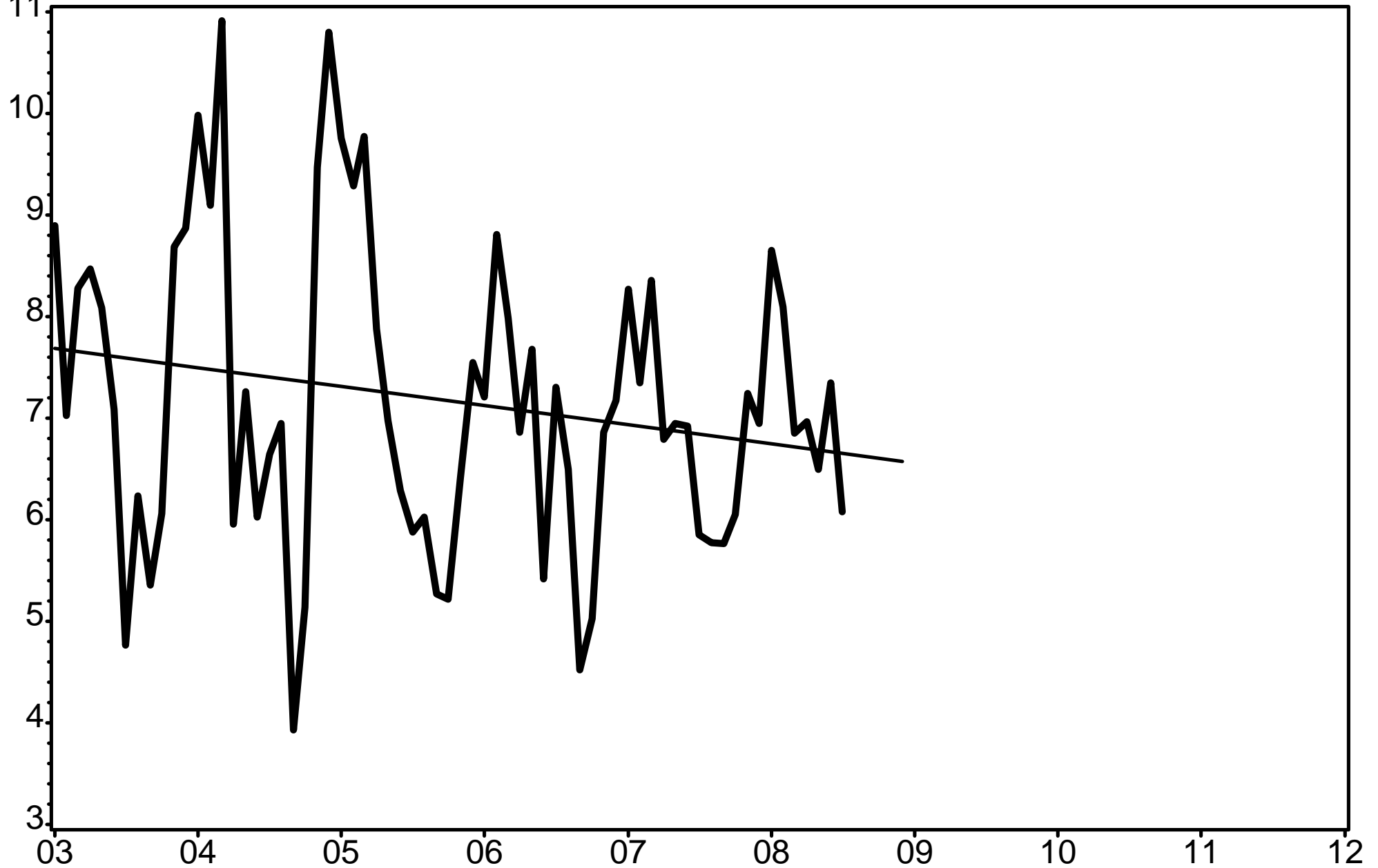
Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2051

Monthly Data Time Series
for Surface Dissolved Oxygen in Tidal Peace
Not Adjusted for Seasonal Medians

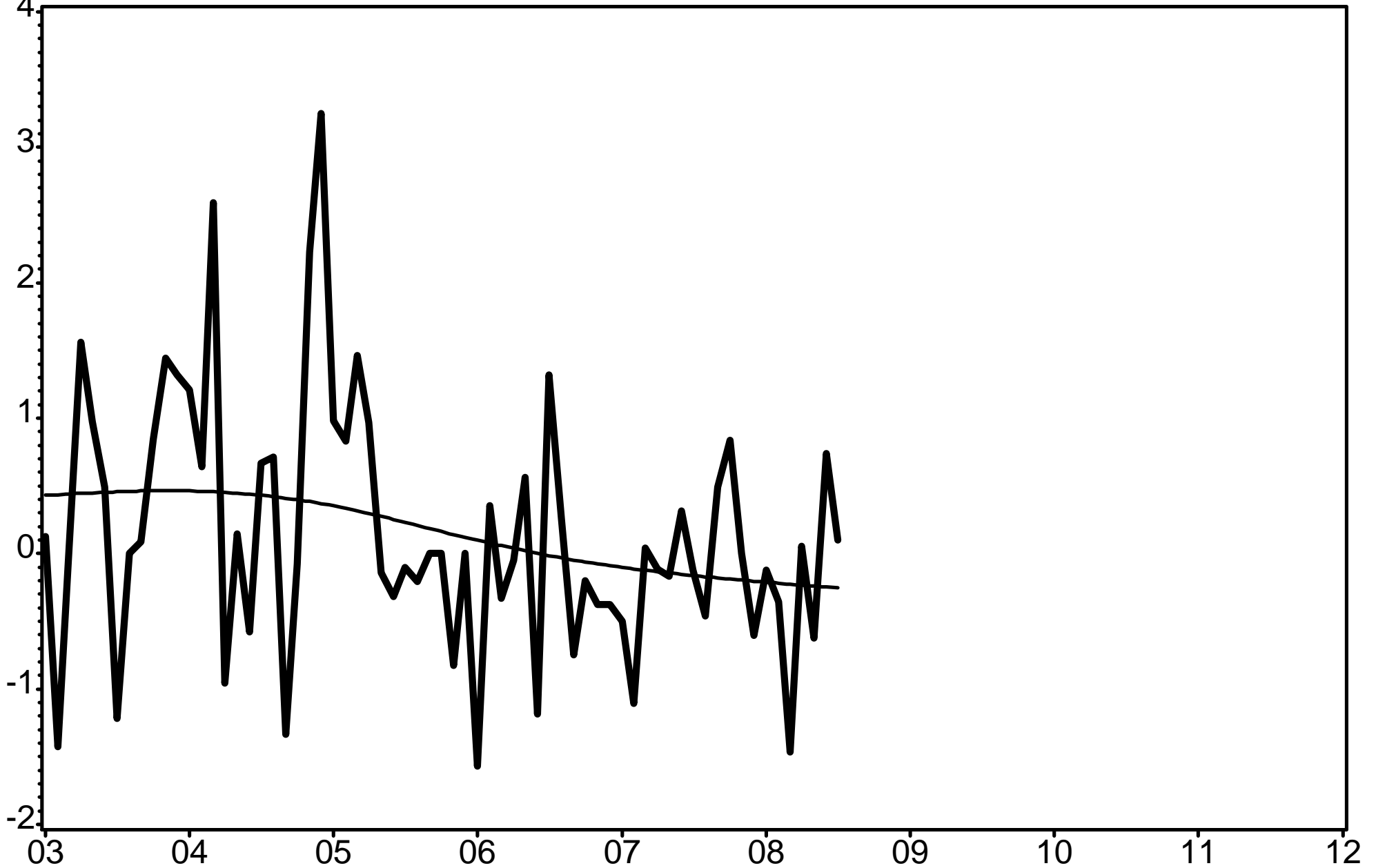
DO_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2052

Monthly Data Time Series
for Surface Dissolved Oxygen in Tidal Peace
Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

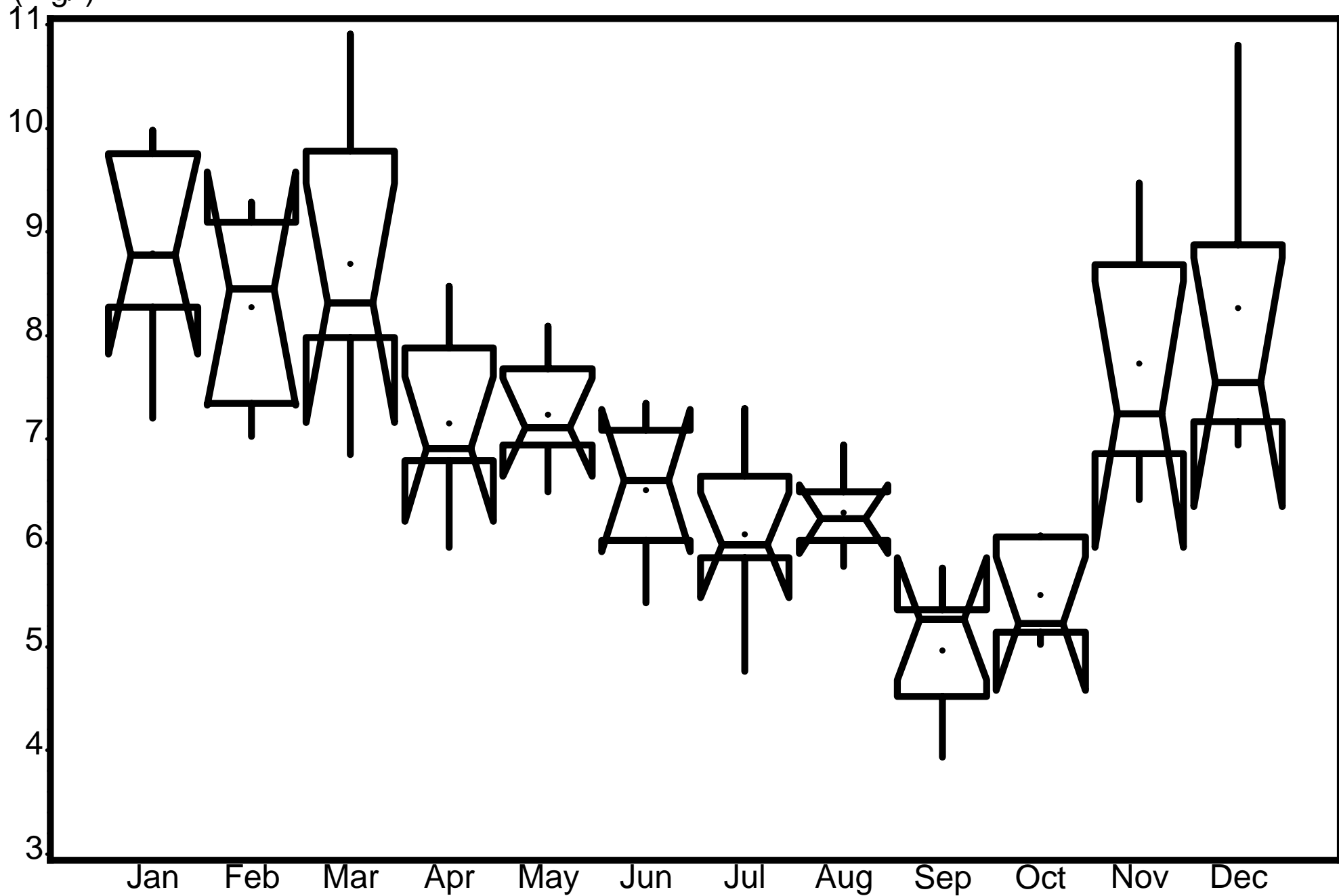


Tidal Peace Trends Appendix - Display 2053

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Tidal Peace

DO_mgl
(mg/l)



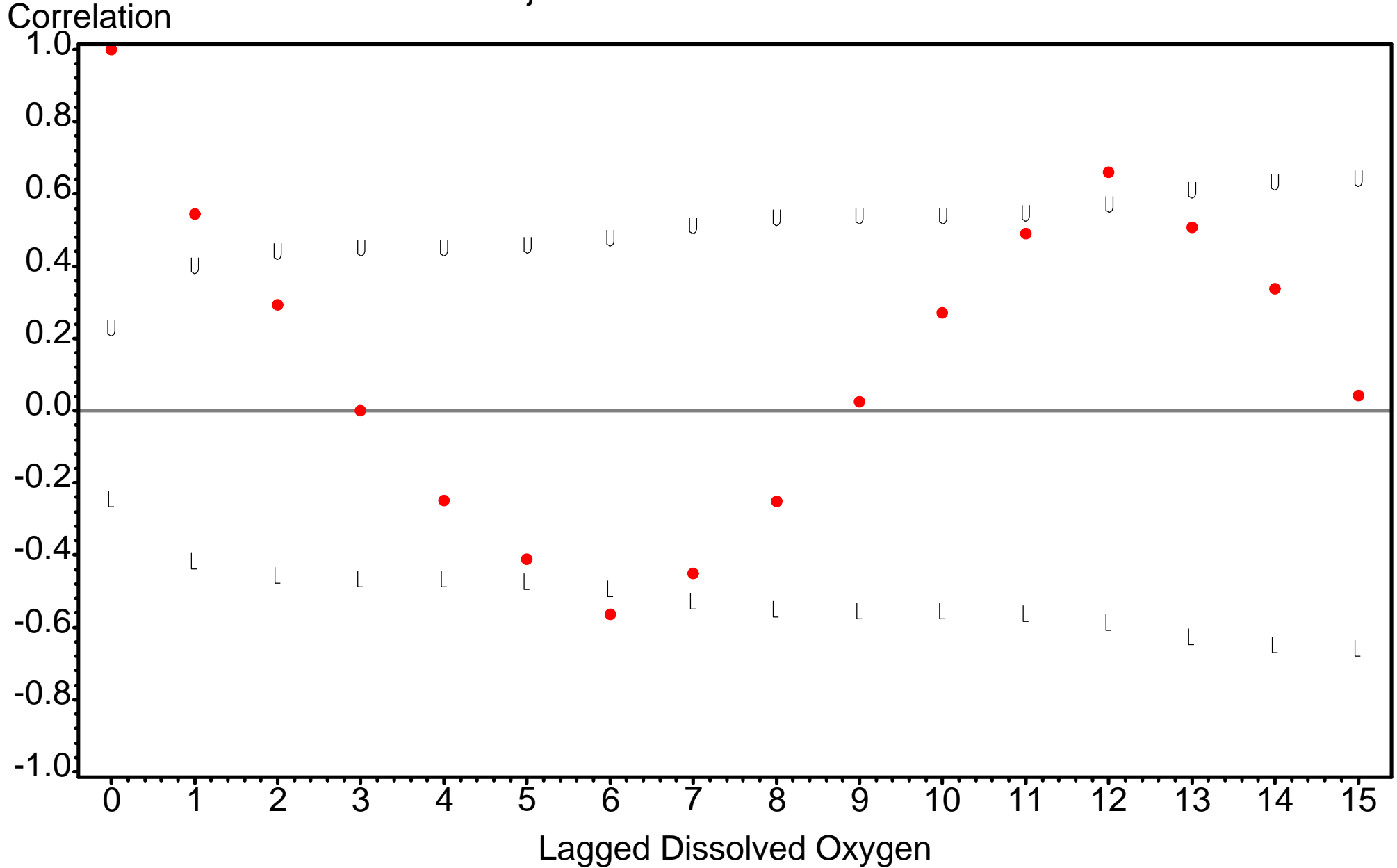
Tidal Peace Trends Appendix - Display 2054
Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Peace

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.543	0.204	0.408	-0.408
2	0.292	0.223	0.447	-0.447
3	0.000	0.229	0.457	-0.457
4	-0.249	0.229	0.457	-0.457
5	-0.412	0.232	0.465	-0.465
6	-0.564	0.242	0.484	-0.484
7	-0.450	0.260	0.520	-0.520
8	-0.251	0.270	0.541	-0.541
9	0.024	0.274	0.547	-0.547
10	0.272	0.274	0.547	-0.547
11	0.489	0.277	0.555	-0.555
12	0.661	0.289	0.578	-0.578
13	0.507	0.309	0.619	-0.619
14	0.338	0.321	0.641	-0.641
15	0.043	0.326	0.651	-0.651

Tidal Peace Trends Appendix - Display 2055

Correlogram for Surface Dissolved Oxygen in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2056
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.117	0.163	0.163	-0.16

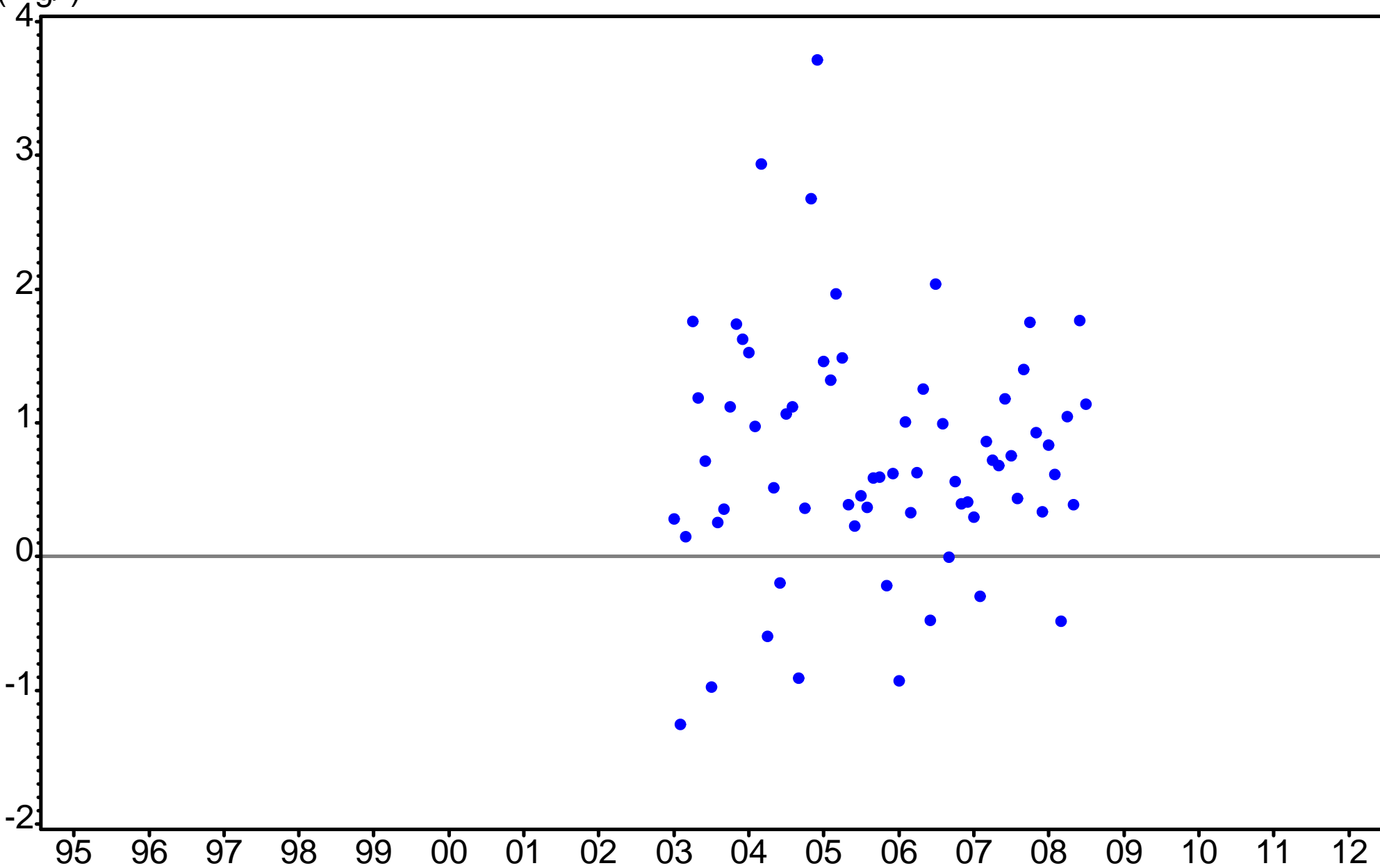
Tidal Peace Trends Appendix - Display 2057
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.22581	0.042779	0.063486	-0.15933

Tidal Peace Trends Appendix - Display 2058

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(mg/l)



Zero Reference Line Shown

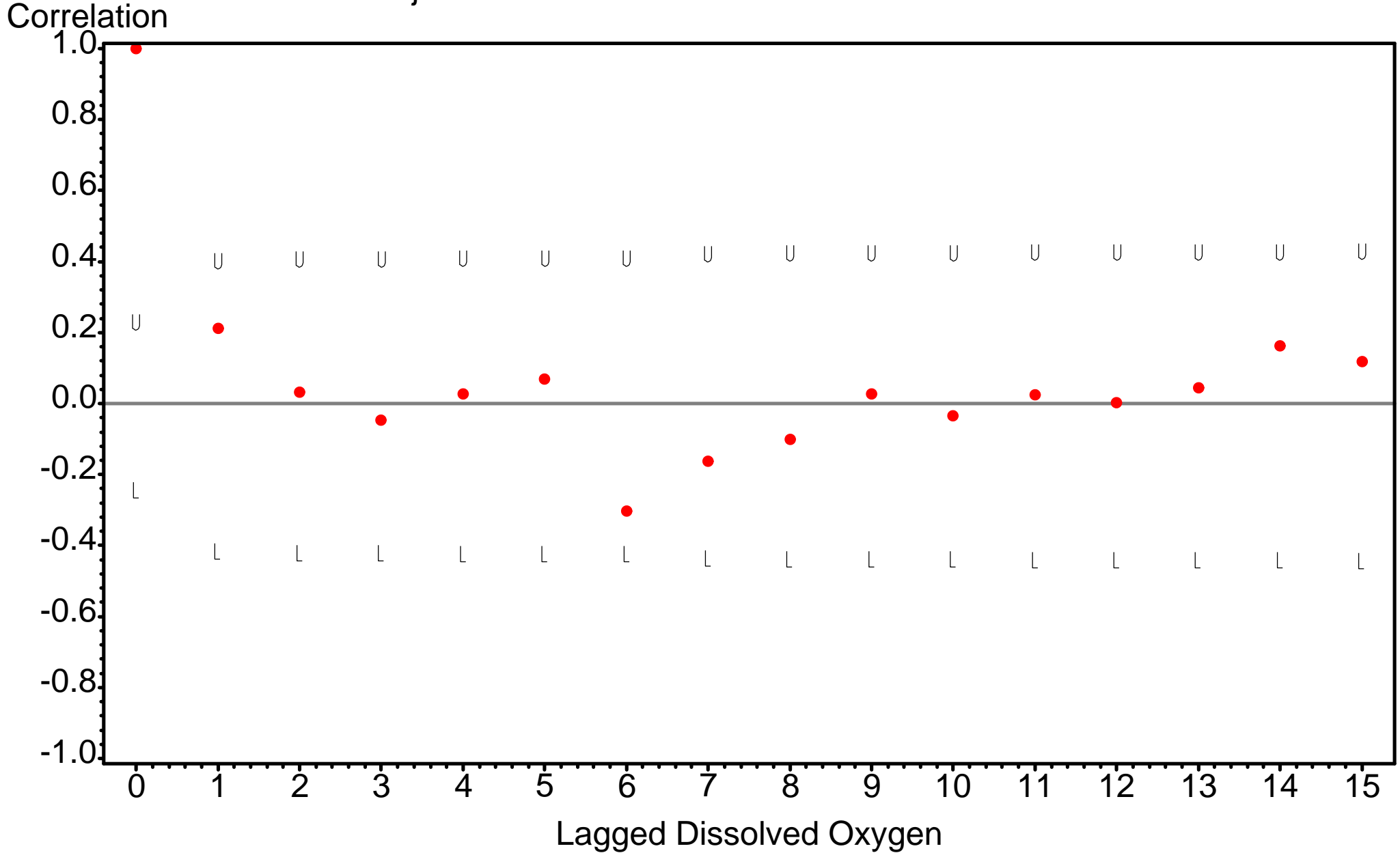
Tidal Peace Trends Appendix - Display 2059
Autocorrelation Statistics for Surface Dissolved Oxygen in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.212	0.204	0.408	-0.408
2	0.033	0.207	0.414	-0.414
3	-0.047	0.207	0.414	-0.414
4	0.027	0.207	0.415	-0.415
5	0.070	0.207	0.415	-0.415
6	-0.302	0.208	0.416	-0.416
7	-0.163	0.214	0.428	-0.428
8	-0.101	0.215	0.431	-0.431
9	0.026	0.216	0.432	-0.432
10	-0.034	0.216	0.432	-0.432
11	0.024	0.216	0.433	-0.433
12	0.002	0.216	0.433	-0.433
13	0.044	0.216	0.433	-0.433
14	0.162	0.216	0.433	-0.433
15	0.117	0.218	0.436	-0.436

Tidal Peace Trends Appendix - Display 2060

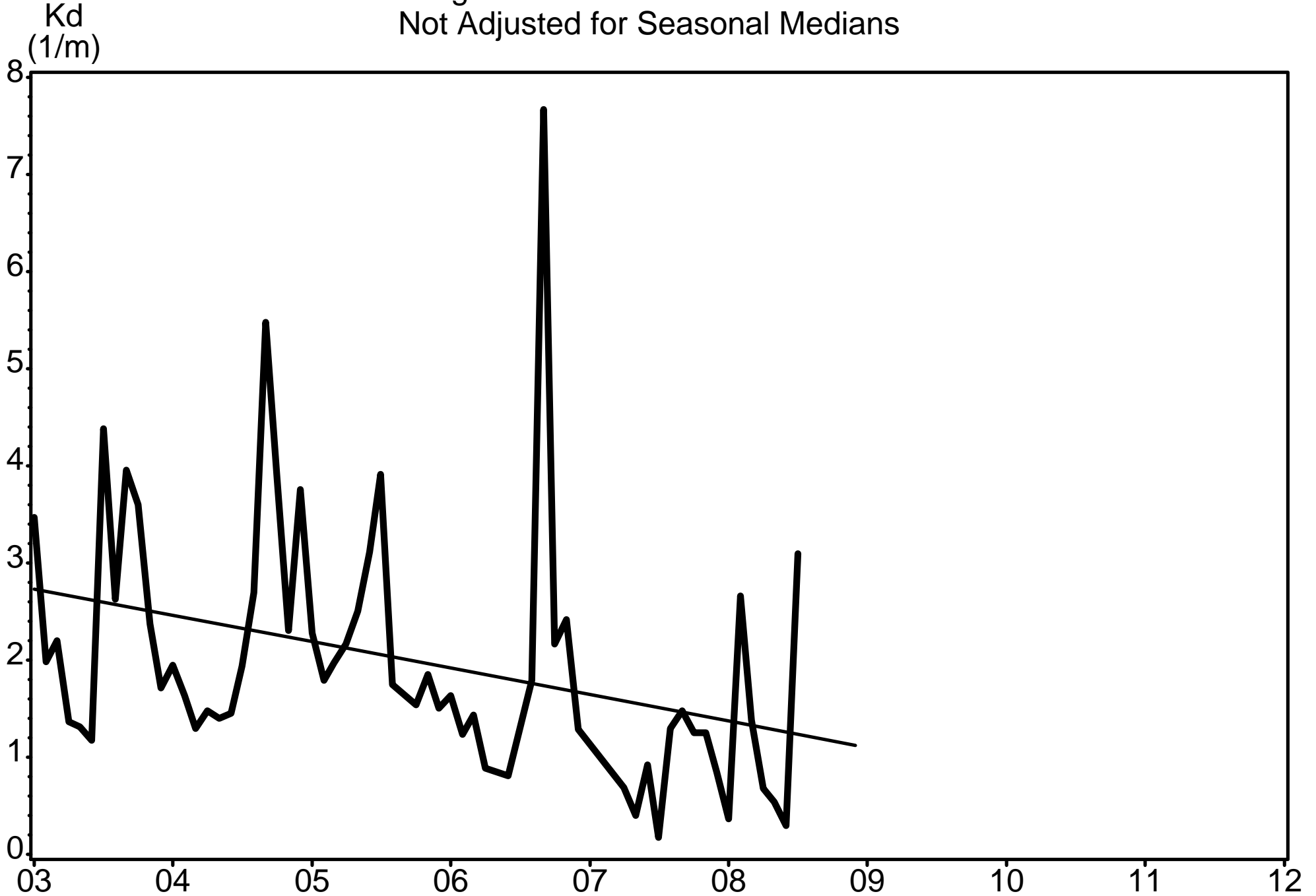
Correlogram for Surface Dissolved Oxygen in Tidal Peace

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2061
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Tidal Peace
Not Adjusted for Seasonal Medians



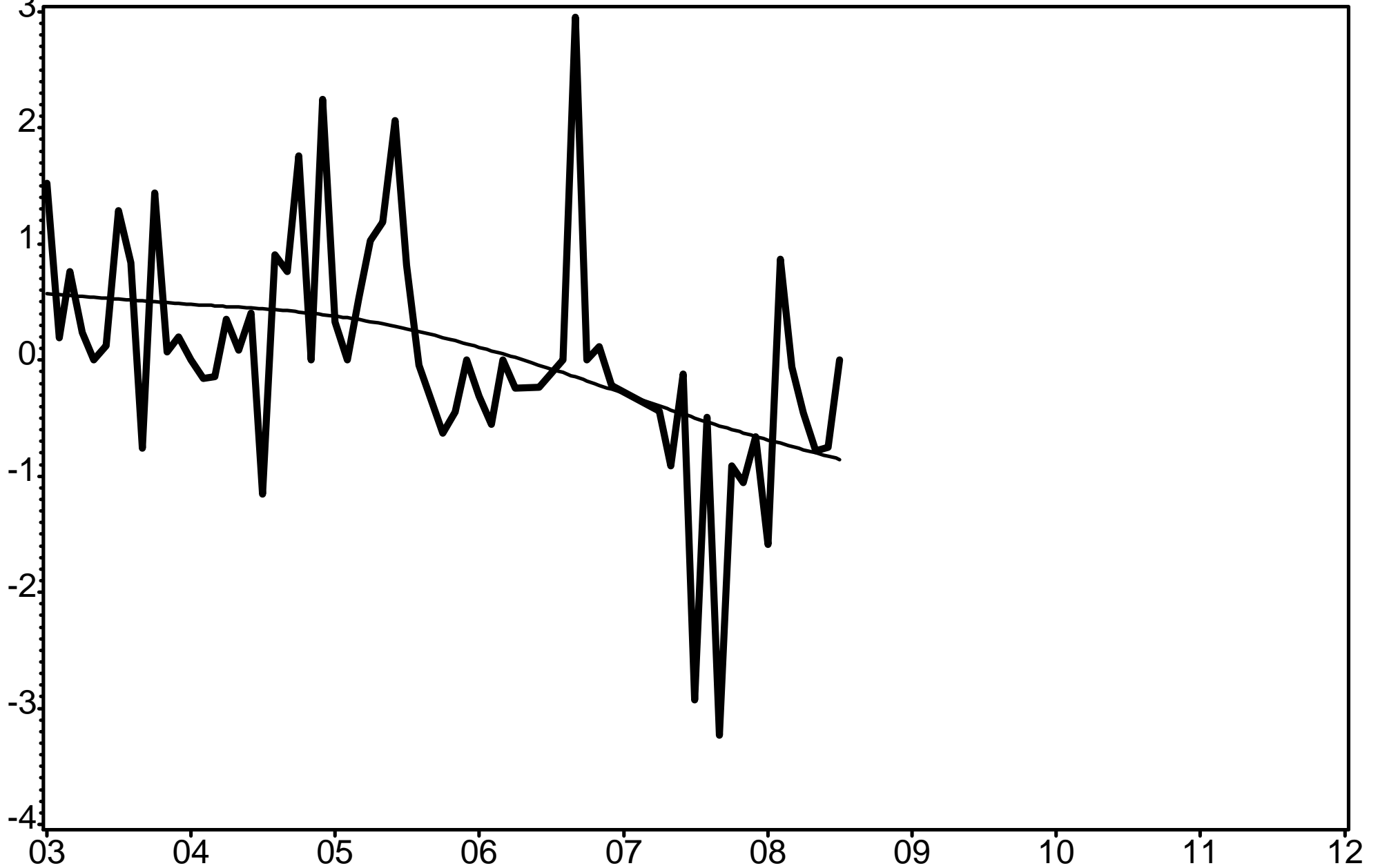
Tidal Peace Trends Appendix - Display 2062

Monthly Data Time Series

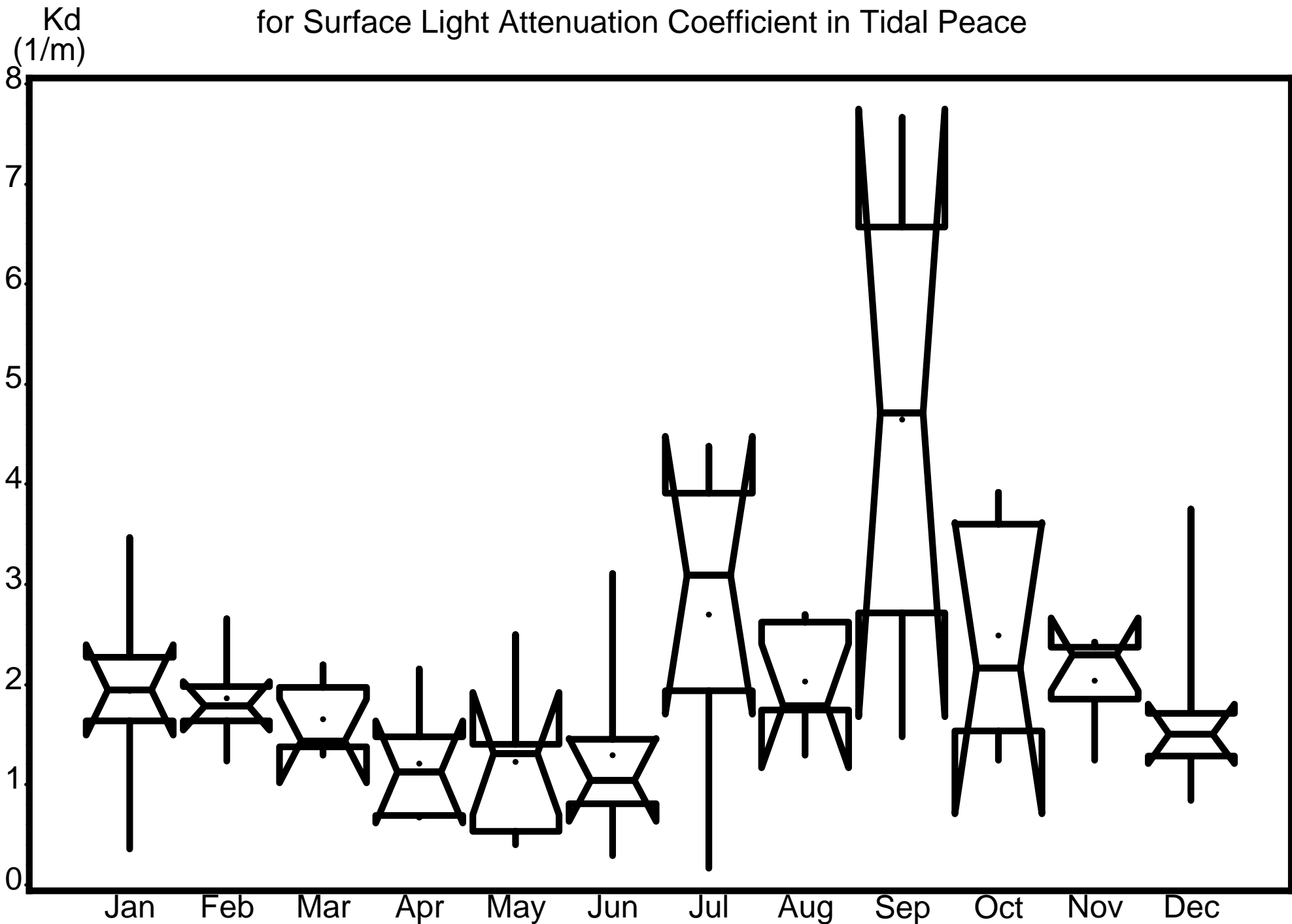
for Surface Light Attenuation Coefficient in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Tidal Peace Trends Appendix - Display 2063
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Tidal Peace



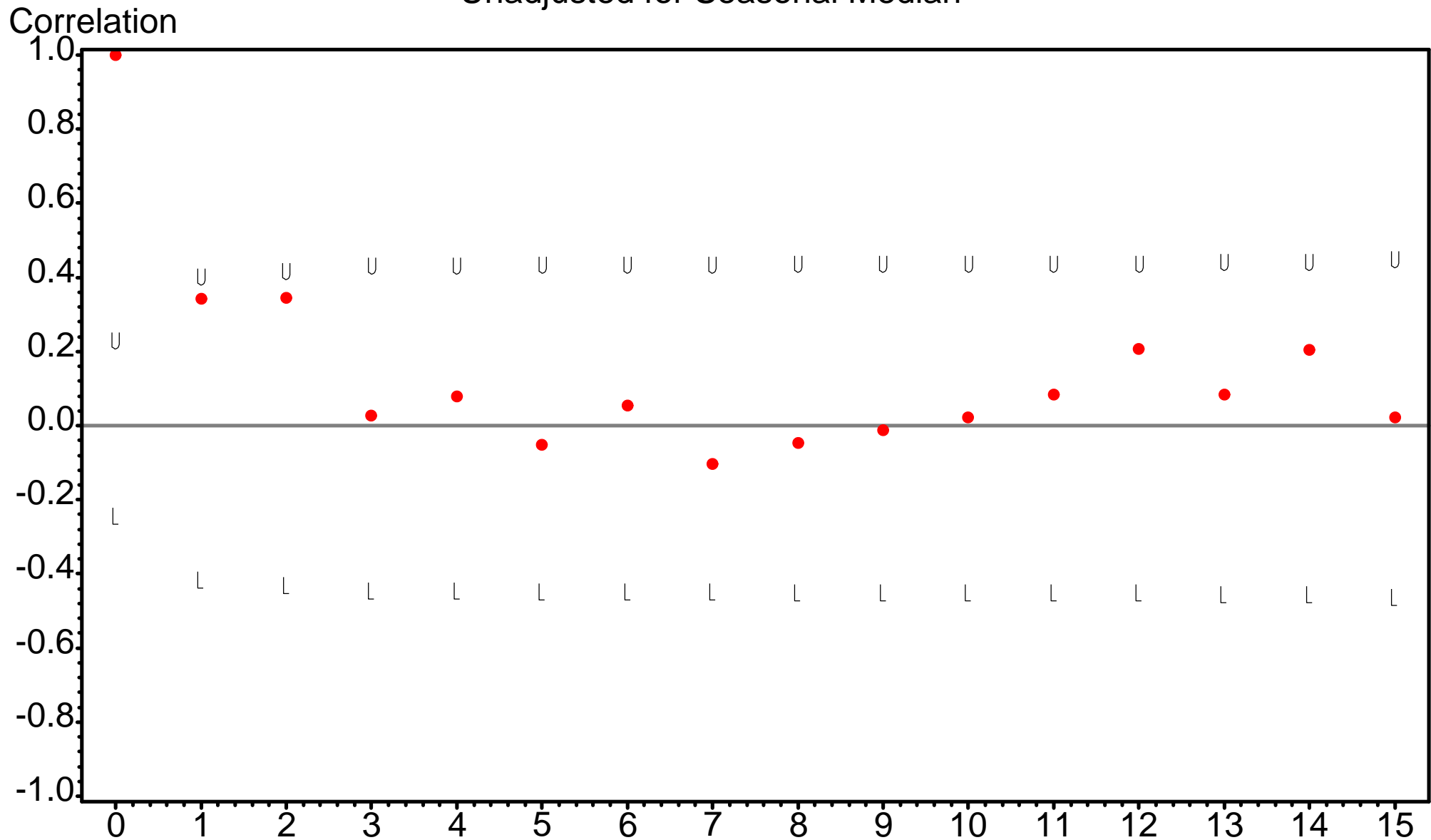
Tidal Peace Trends Appendix - Display 2064

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Peace

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.342	0.204	0.408	-0.408
2	0.344	0.212	0.424	-0.424
3	0.026	0.220	0.439	-0.439
4	0.080	0.220	0.439	-0.439
5	-0.052	0.220	0.440	-0.440
6	0.054	0.220	0.440	-0.440
7	-0.104	0.220	0.441	-0.441
8	-0.046	0.221	0.442	-0.442
9	-0.012	0.221	0.442	-0.442
10	0.022	0.221	0.442	-0.442
11	0.083	0.221	0.442	-0.442
12	0.206	0.222	0.443	-0.443
13	0.084	0.224	0.449	-0.449
14	0.205	0.225	0.449	-0.449
15	0.023	0.227	0.455	-0.455

Tidal Peace Trends Appendix - Display 2065

Correlogram for Surface Light Attenuation Coefficient in Tidal Peace Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2066
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.342	0	0	-0.281

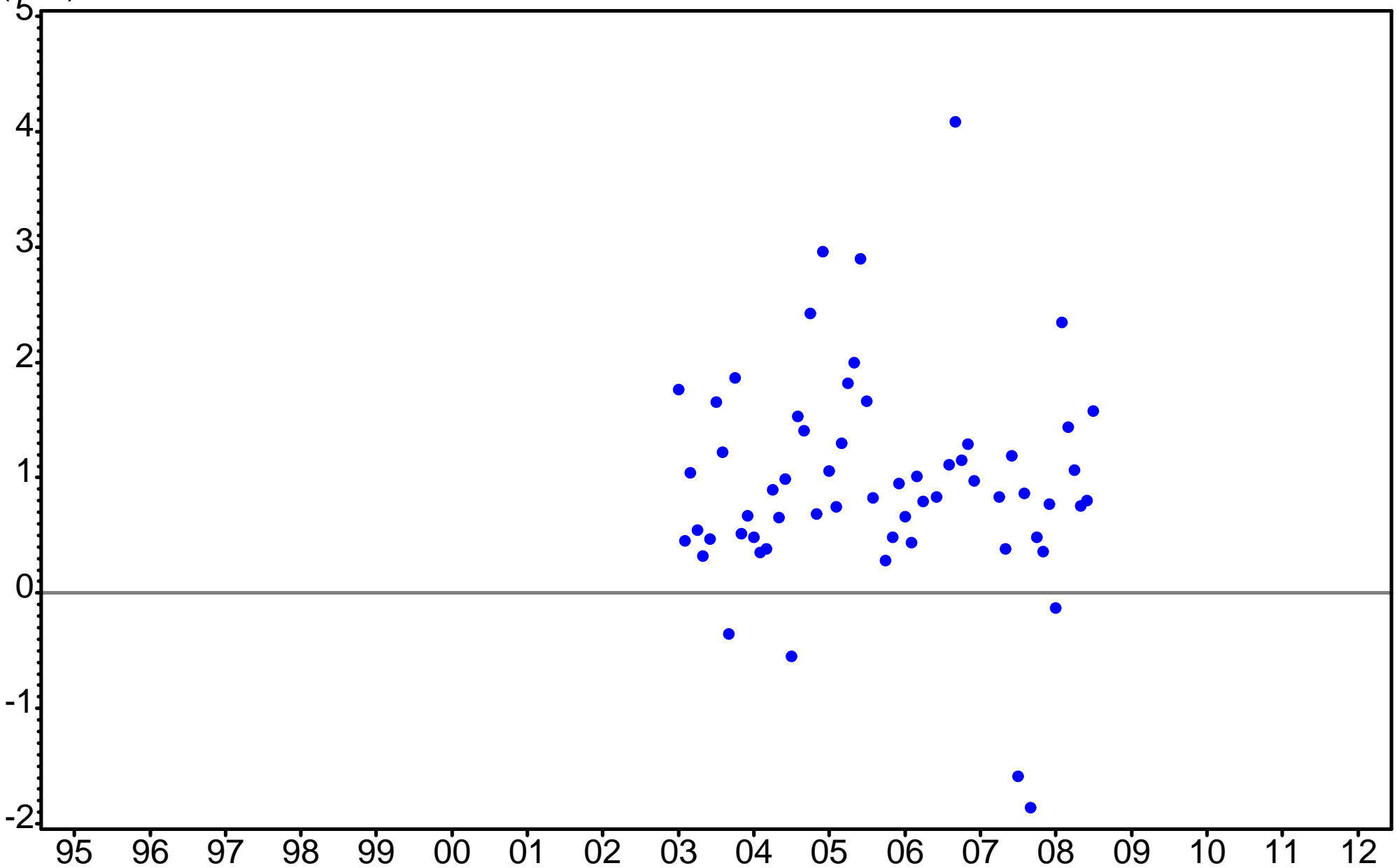
Tidal Peace Trends Appendix - Display 2067
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.46032	.000102855	0.047694	-0.24267

Tidal Peace Trends Appendix - Display 2068

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted Tidal Peace

(1/m)



Zero Reference Line Shown

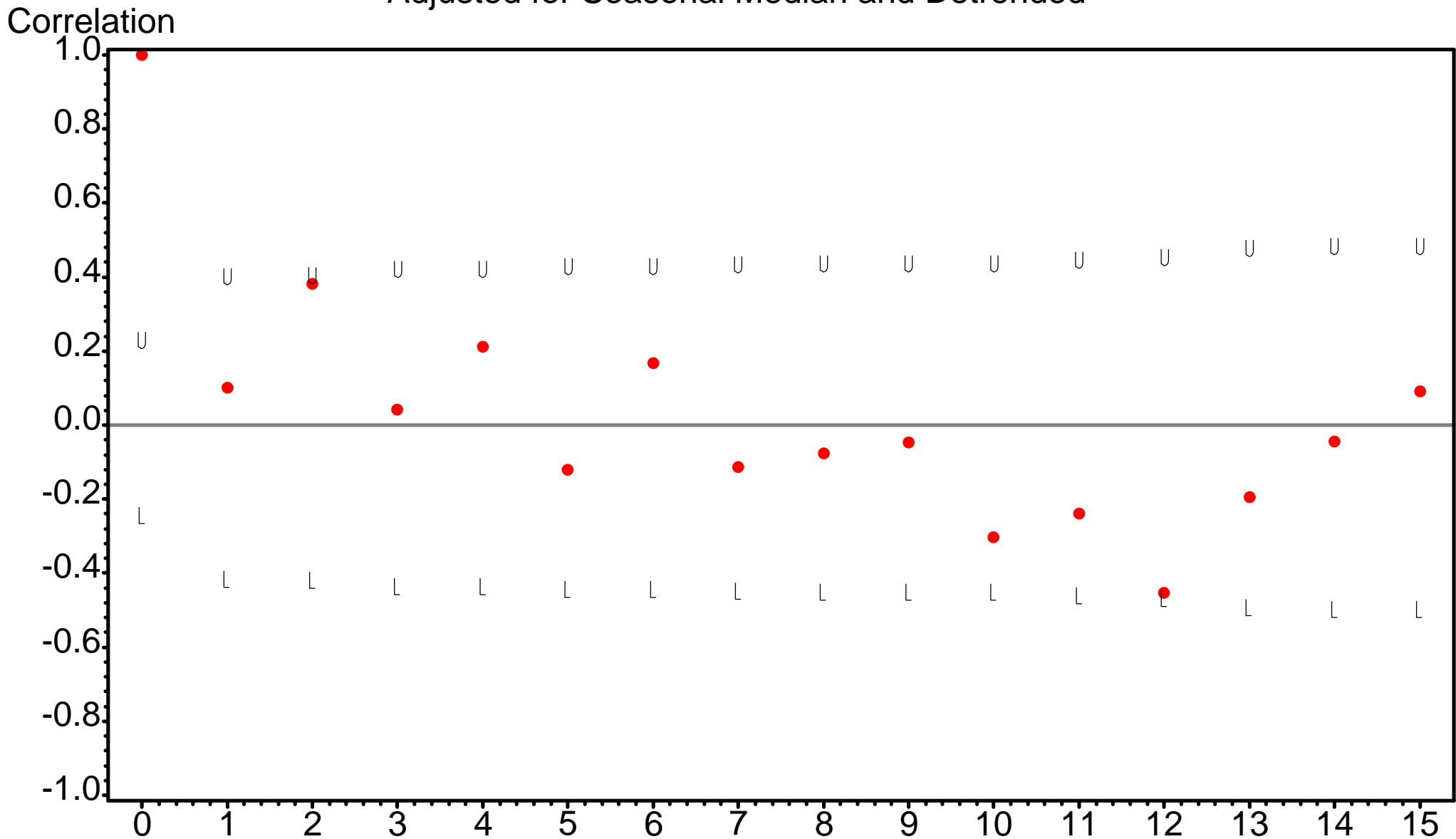
Tidal Peace Trends Appendix - Display 2069

Autocorrelation Statistics for Surface Light Attenuation Coefficient in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.101	0.204	0.408	-0.408
2	0.381	0.205	0.410	-0.410
3	0.042	0.214	0.429	-0.429
4	0.212	0.215	0.429	-0.429
5	-0.120	0.217	0.435	-0.435
6	0.168	0.218	0.437	-0.437
7	-0.114	0.220	0.440	-0.440
8	-0.077	0.221	0.442	-0.442
9	-0.047	0.221	0.443	-0.443
10	-0.303	0.221	0.443	-0.443
11	-0.240	0.227	0.454	-0.454
12	-0.452	0.231	0.461	-0.461
13	-0.194	0.243	0.485	-0.485
14	-0.045	0.245	0.490	-0.490
15	0.090	0.245	0.490	-0.490

Tidal Peace Trends Appendix - Display 2070

Correlogram for Surface Light Attenuation Coefficient in Tidal Peace Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

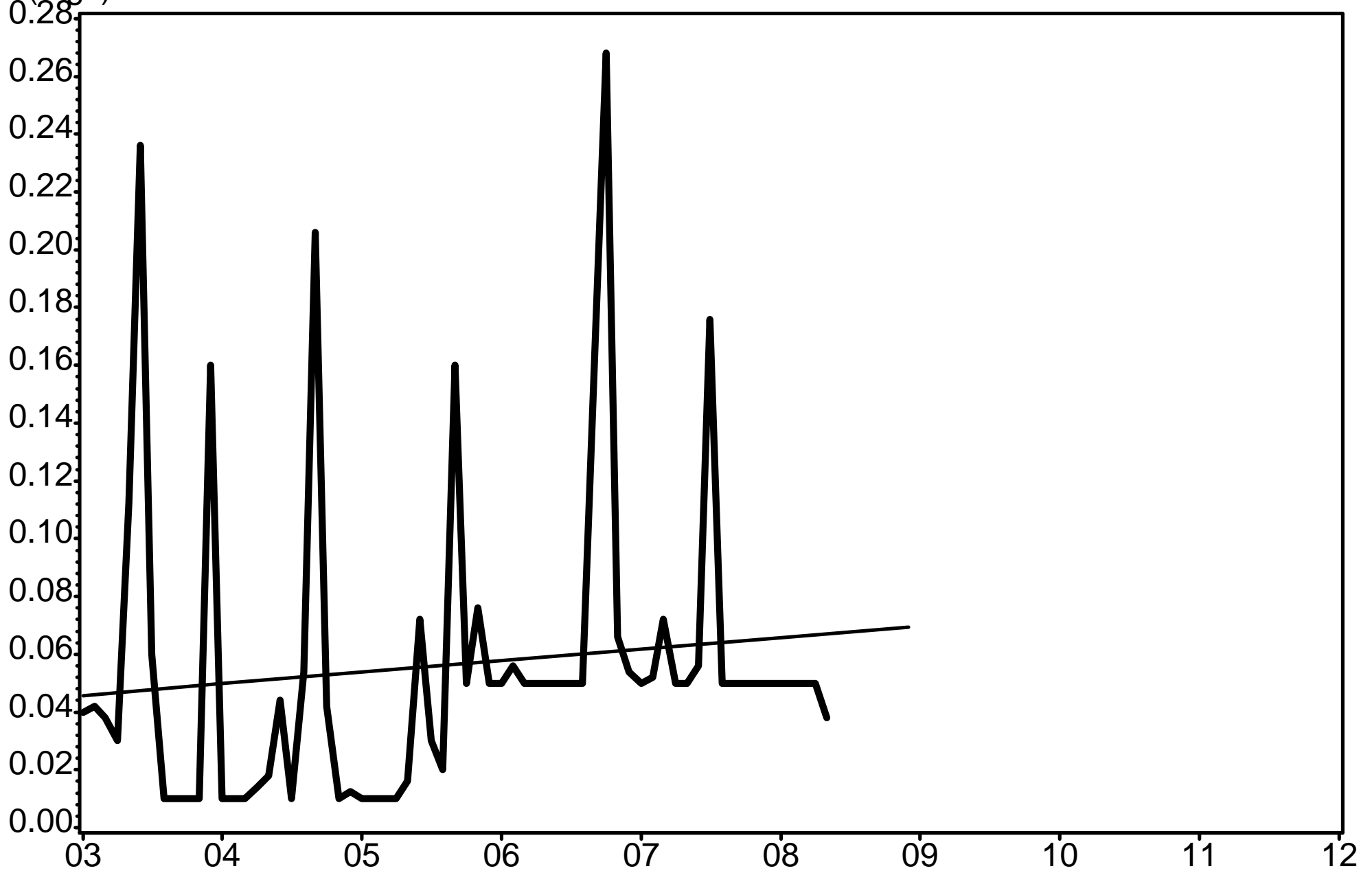
Tidal Peace Trends Appendix - Display 2071

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Peace

Not Adjusted for Seasonal Medians

NH3_mgl
(mg/l)



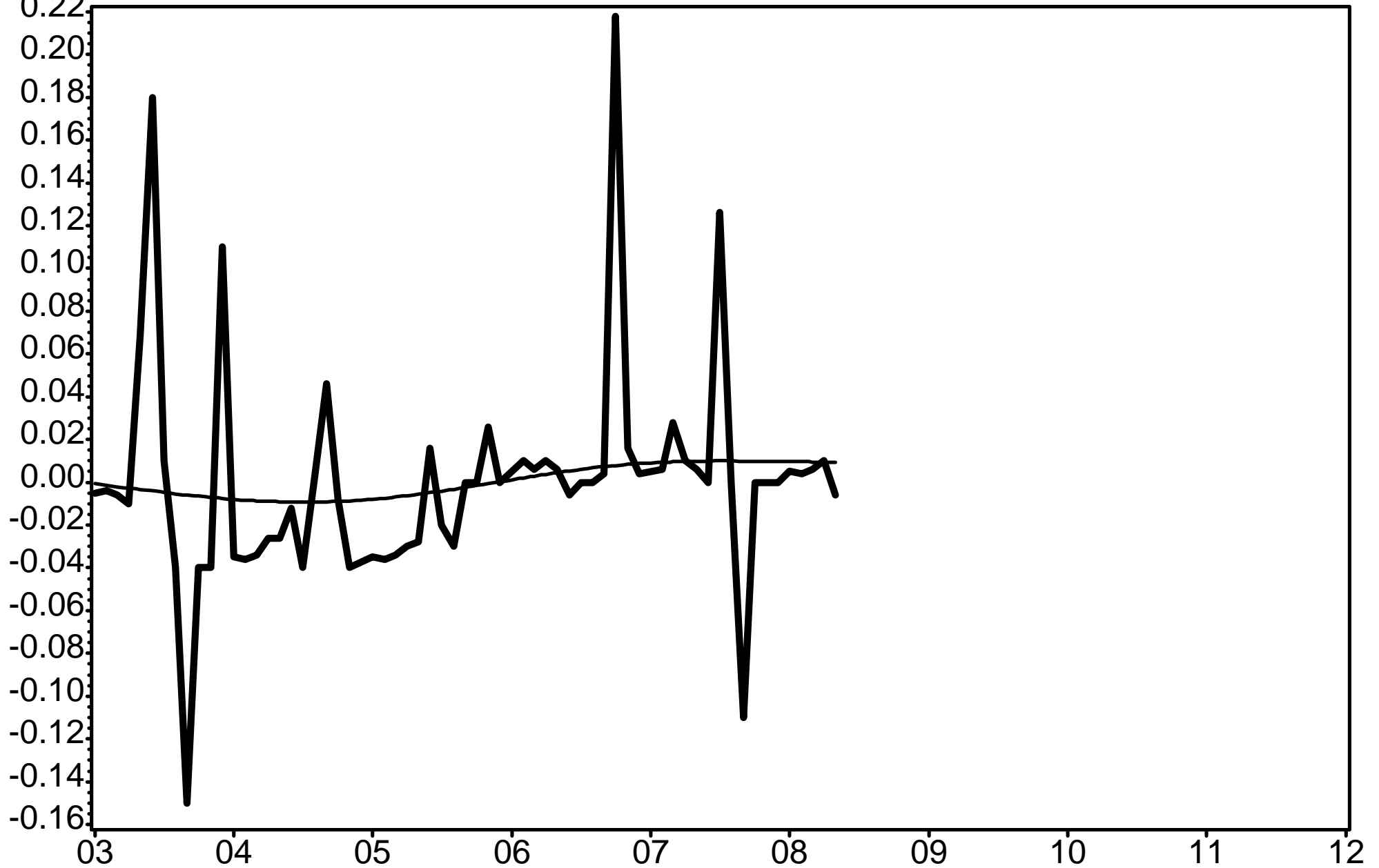
Tidal Peace Trends Appendix - Display 2072

Monthly Data Time Series

for Surface Ammonia as N Total in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
NH3_mgl
(mg/l)

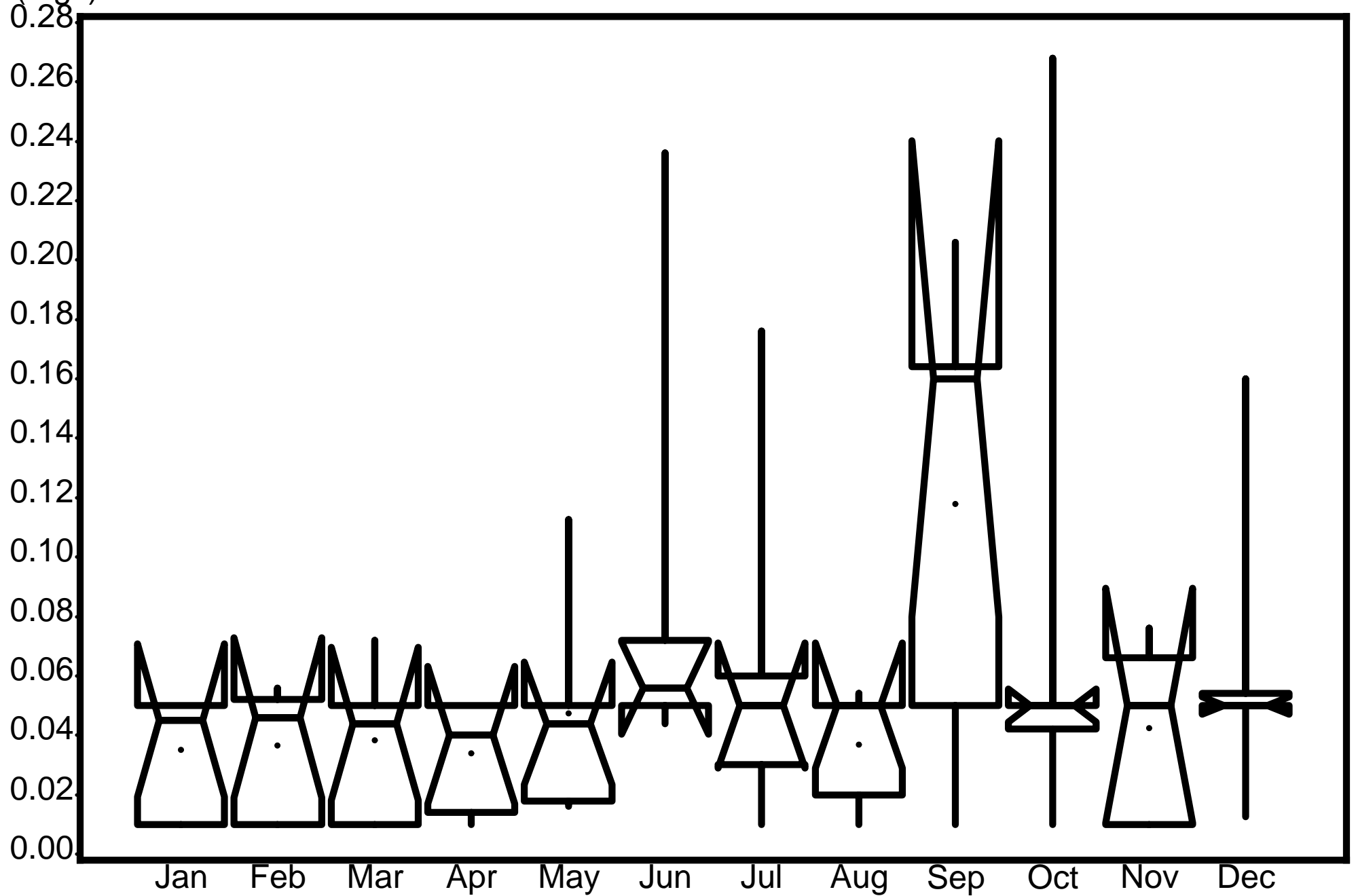


Tidal Peace Trends Appendix - Display 2073

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Tidal Peace

NH3_mgl
(mg/l)



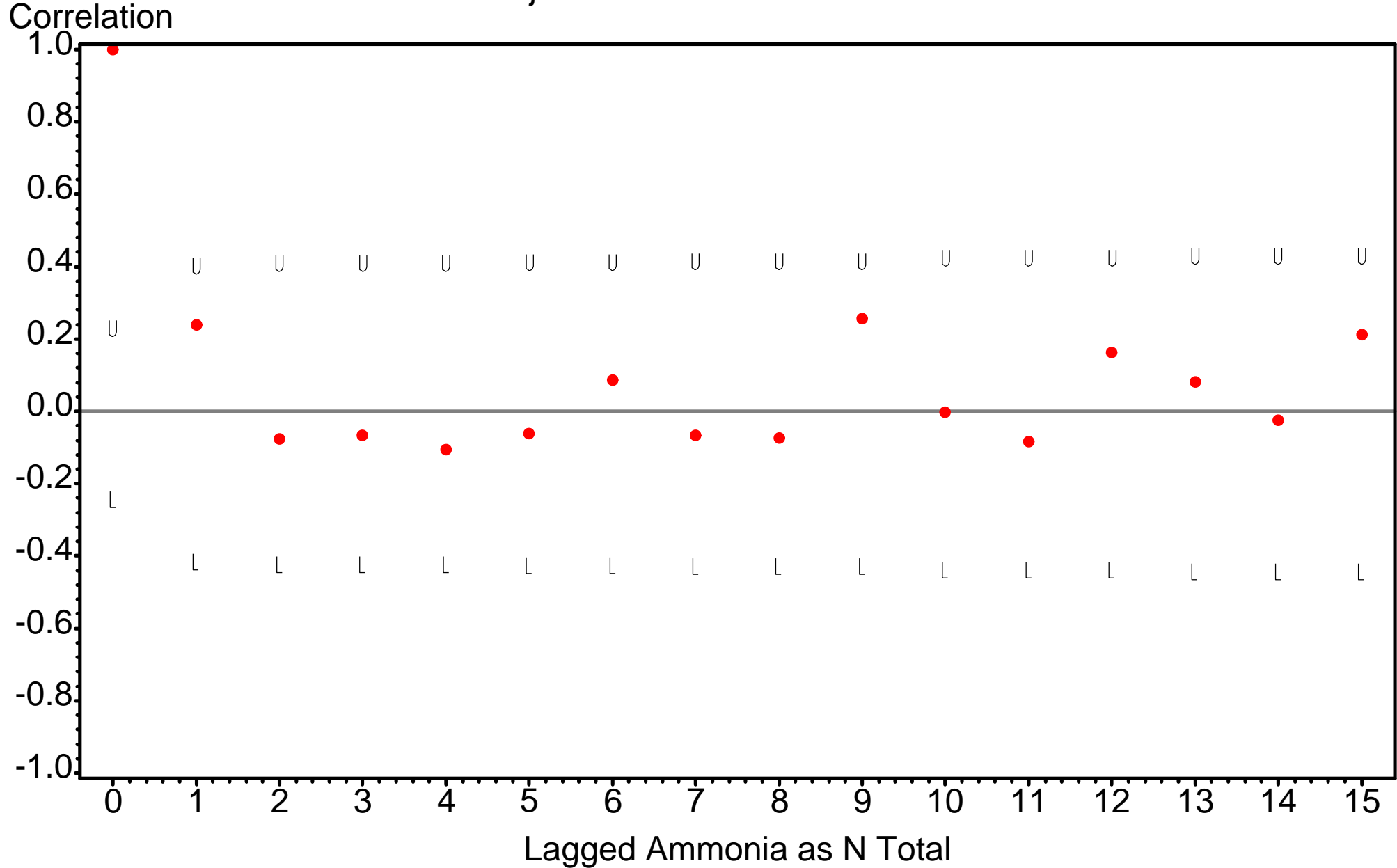
Tidal Peace Trends Appendix - Display 2074
Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Peace

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.240	0.204	0.408	-0.408
2	-0.077	0.208	0.416	-0.416
3	-0.067	0.208	0.417	-0.417
4	-0.106	0.209	0.417	-0.417
5	-0.061	0.209	0.419	-0.419
6	0.087	0.210	0.419	-0.419
7	-0.066	0.210	0.420	-0.420
8	-0.073	0.210	0.421	-0.421
9	0.257	0.211	0.422	-0.422
10	-0.002	0.215	0.430	-0.430
11	-0.083	0.215	0.430	-0.430
12	0.163	0.216	0.431	-0.431
13	0.082	0.217	0.435	-0.435
14	-0.024	0.218	0.435	-0.435
15	0.211	0.218	0.436	-0.436

Tidal Peace Trends Appendix - Display 2075

Correlogram for Surface Ammonia as N Total in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2076
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.237	.004	.004	.003

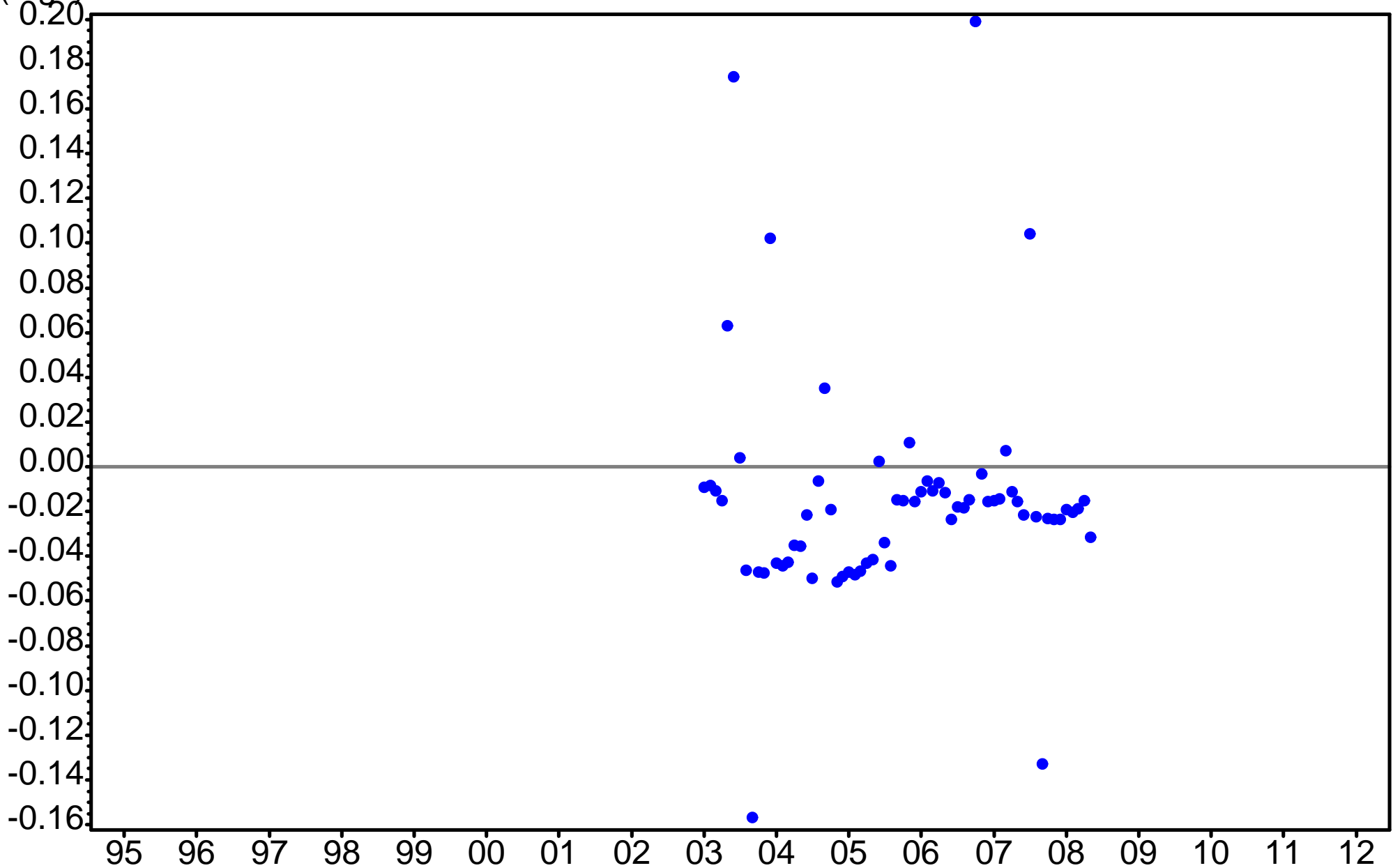
Tidal Peace Trends Appendix - Display 2077
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.24828	0.024456	0.22756	.004

Tidal Peace Trends Appendix - Display 2078

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(mg/l)



Zero Reference Line Shown

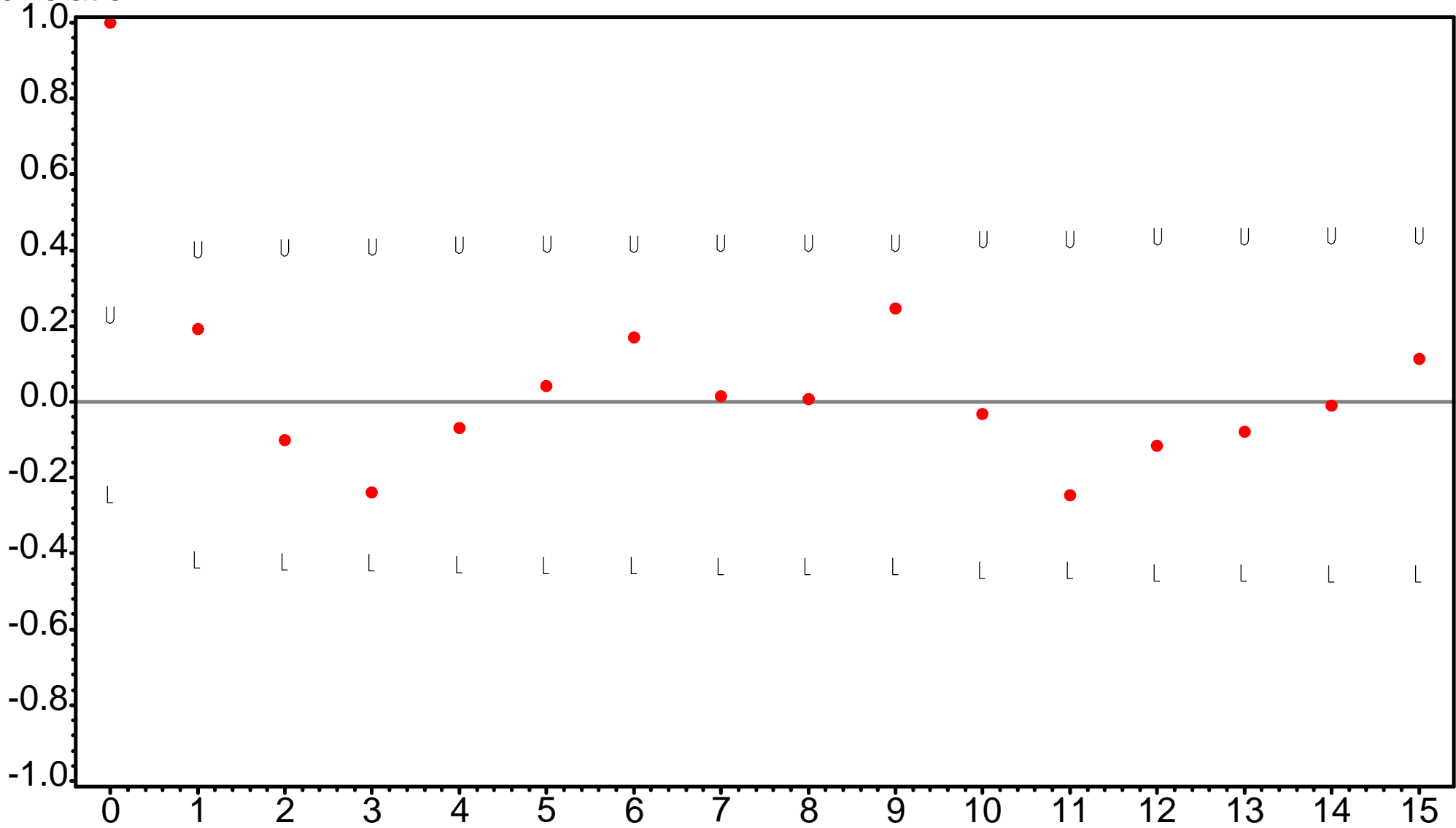
Tidal Peace Trends Appendix - Display 2079
Autocorrelation Statistics for Surface Ammonia as N Total in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.192	0.204	0.408	-0.408
2	-0.100	0.207	0.413	-0.413
3	-0.239	0.207	0.415	-0.415
4	-0.070	0.211	0.422	-0.422
5	0.041	0.211	0.423	-0.423
6	0.169	0.212	0.423	-0.423
7	0.016	0.213	0.427	-0.427
8	0.008	0.213	0.427	-0.427
9	0.247	0.213	0.427	-0.427
10	-0.032	0.217	0.435	-0.435
11	-0.247	0.217	0.435	-0.435
12	-0.116	0.221	0.443	-0.443
13	-0.078	0.222	0.444	-0.444
14	-0.011	0.222	0.445	-0.445
15	0.114	0.222	0.445	-0.445

Tidal Peace Trends Appendix - Display 2080

Correlogram for Surface Ammonia as N Total in Tidal Peace Adjusted for Seasonal Median and Detrended

Correlation

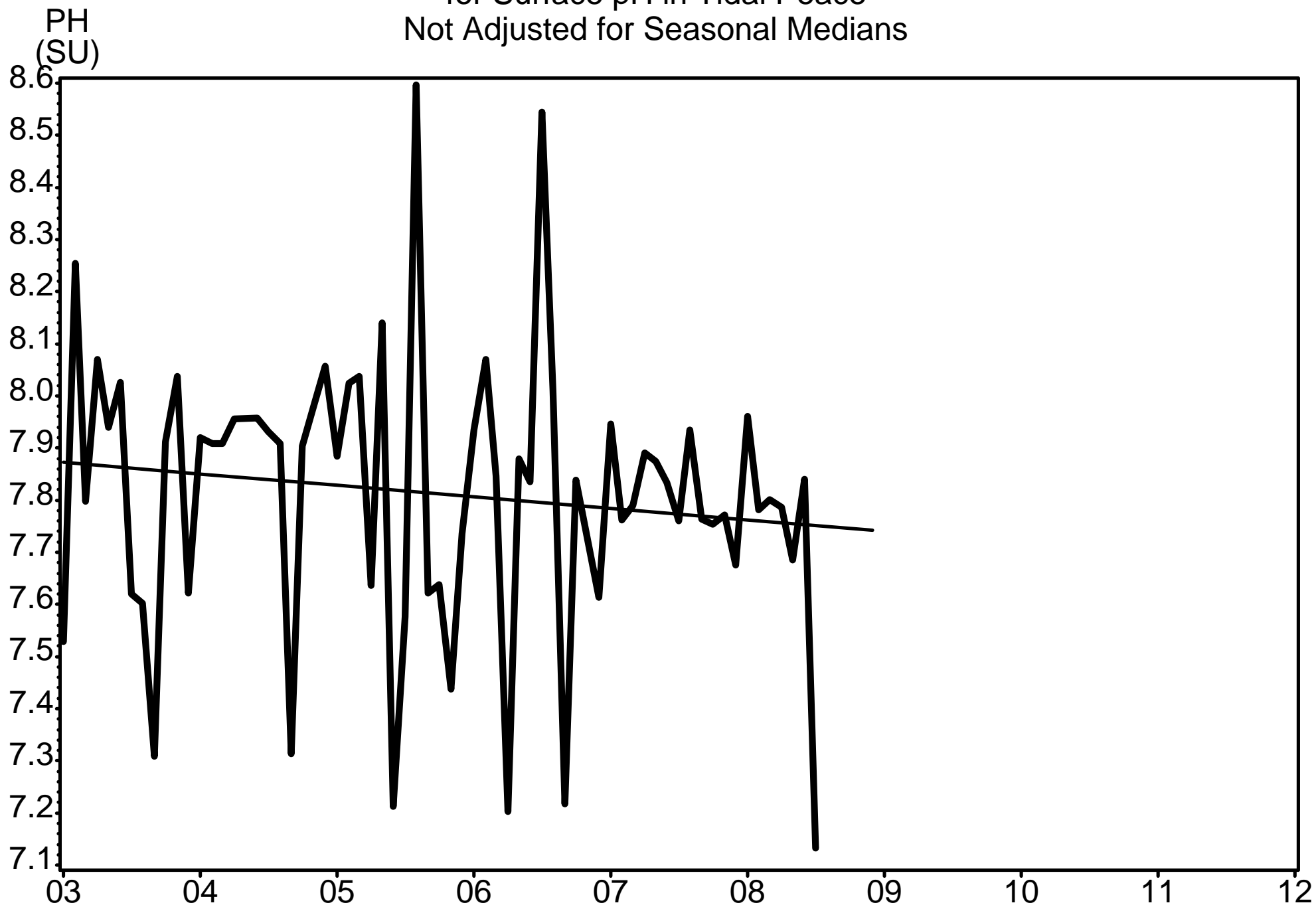


Lagged Ammonia as N Total

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2081

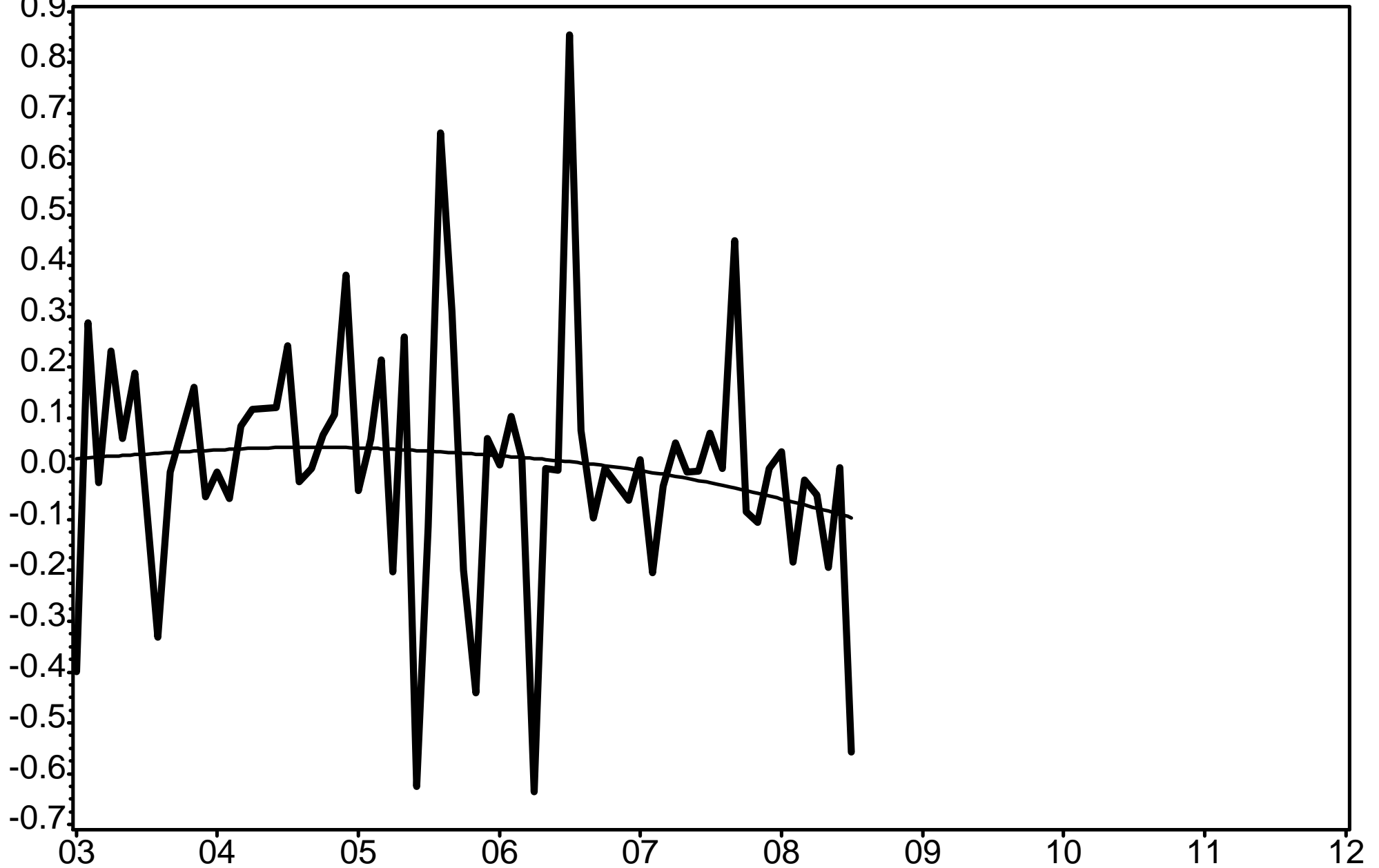
Monthly Data Time Series
for Surface pH in Tidal Peace
Not Adjusted for Seasonal Medians



Tidal Peace Trends Appendix - Display 2082

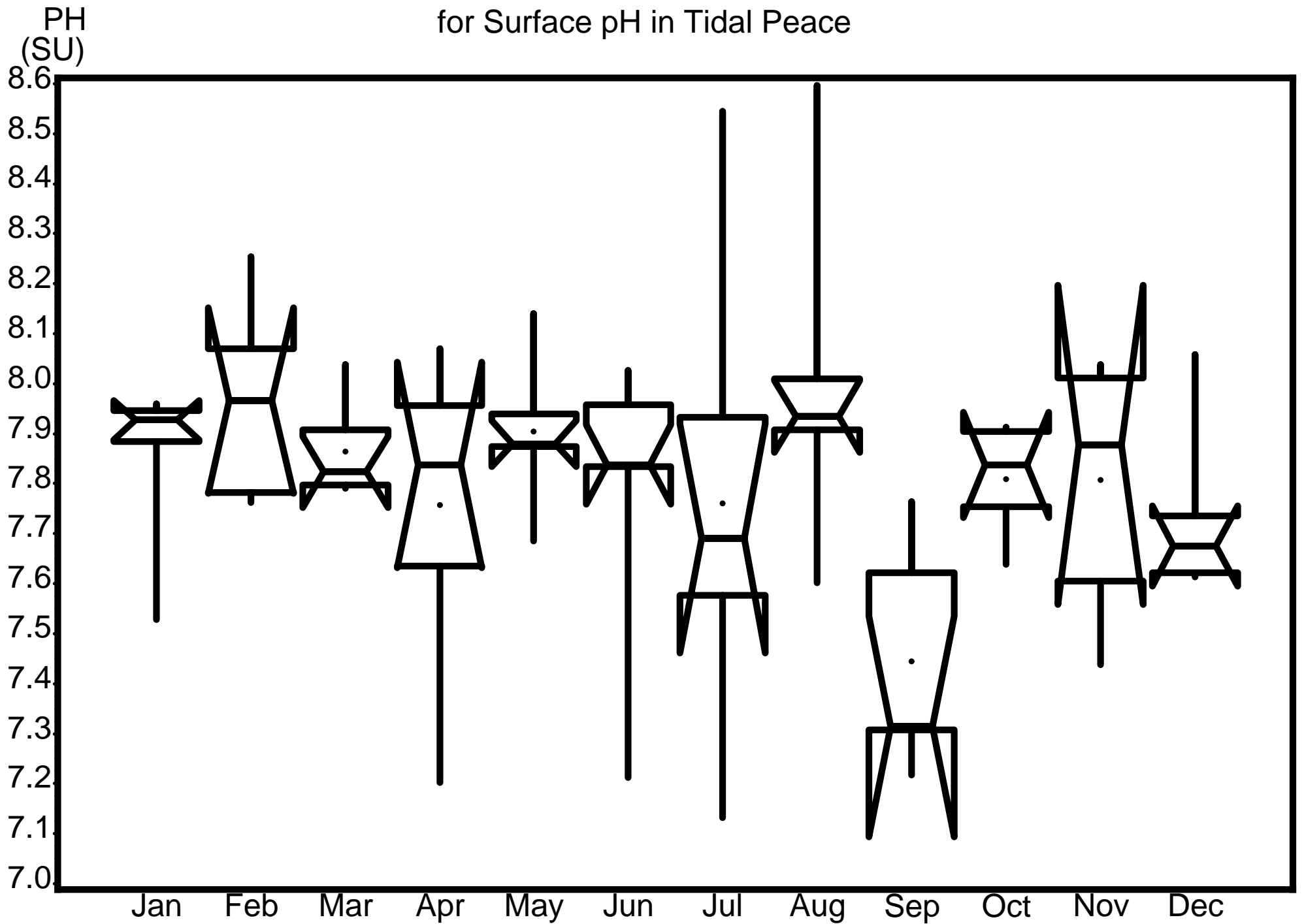
Monthly Data Time Series
for Surface pH in Tidal Peace
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Tidal Peace Trends Appendix - Display 2083

Seasonal Univariate Statistics
for Surface pH in Tidal Peace



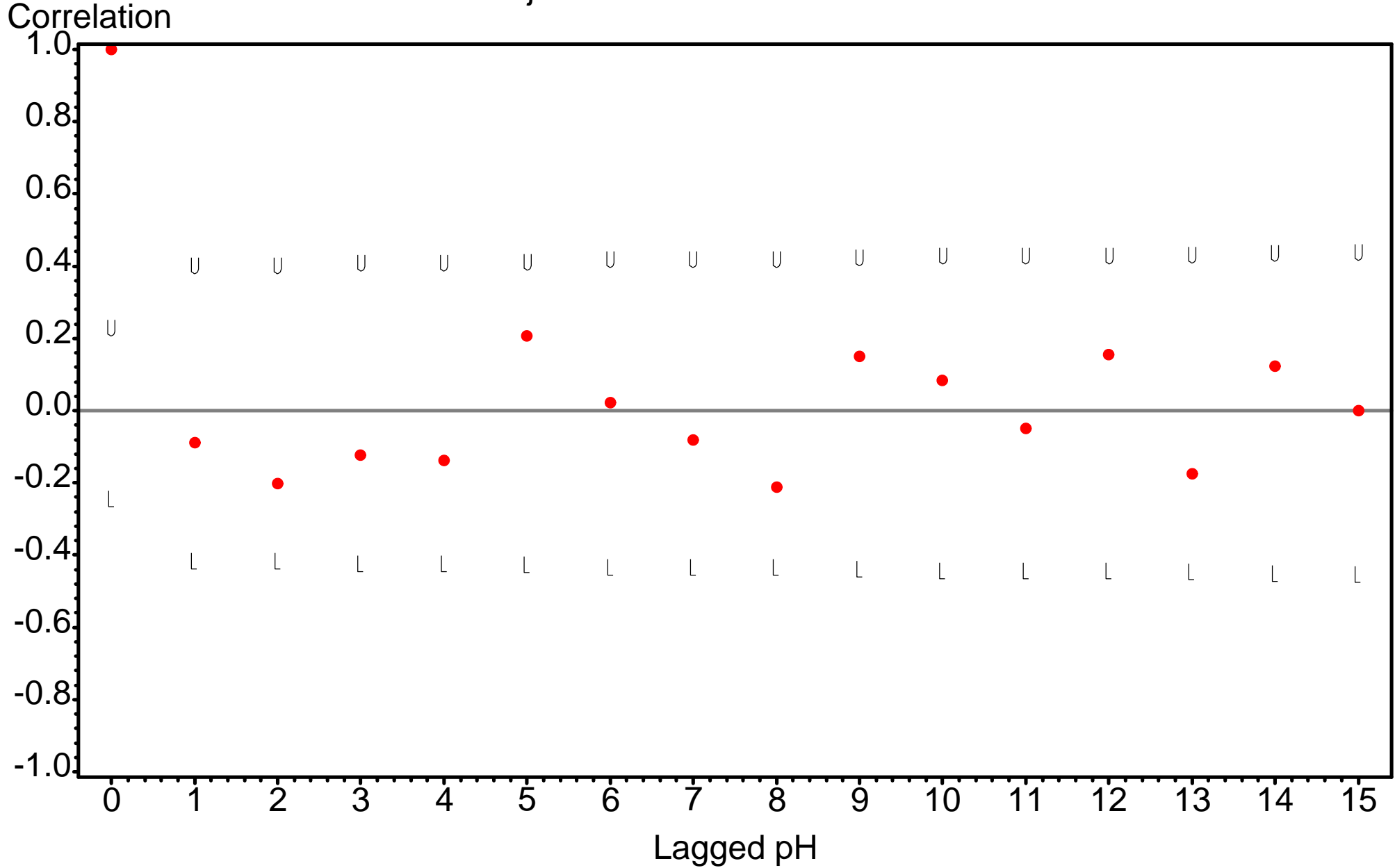
Tidal Peace Trends Appendix - Display 2084

Autocorrelation Statistics for Surface pH in Tidal Peace

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.088	0.204	0.408	-0.408
2	-0.203	0.205	0.409	-0.409
3	-0.124	0.207	0.415	-0.415
4	-0.138	0.208	0.417	-0.417
5	0.207	0.210	0.419	-0.419
6	0.022	0.213	0.425	-0.425
7	-0.082	0.213	0.425	-0.425
8	-0.211	0.213	0.426	-0.426
9	0.151	0.216	0.432	-0.432
10	0.084	0.217	0.435	-0.435
11	-0.049	0.218	0.436	-0.436
12	0.156	0.218	0.436	-0.436
13	-0.175	0.219	0.439	-0.439
14	0.124	0.221	0.443	-0.443
15	0.001	0.222	0.445	-0.445

Tidal Peace Trends Appendix - Display 2085

Correlogram for Surface pH in Tidal Peace
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2086
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.146	0.087	0.087	-0.029

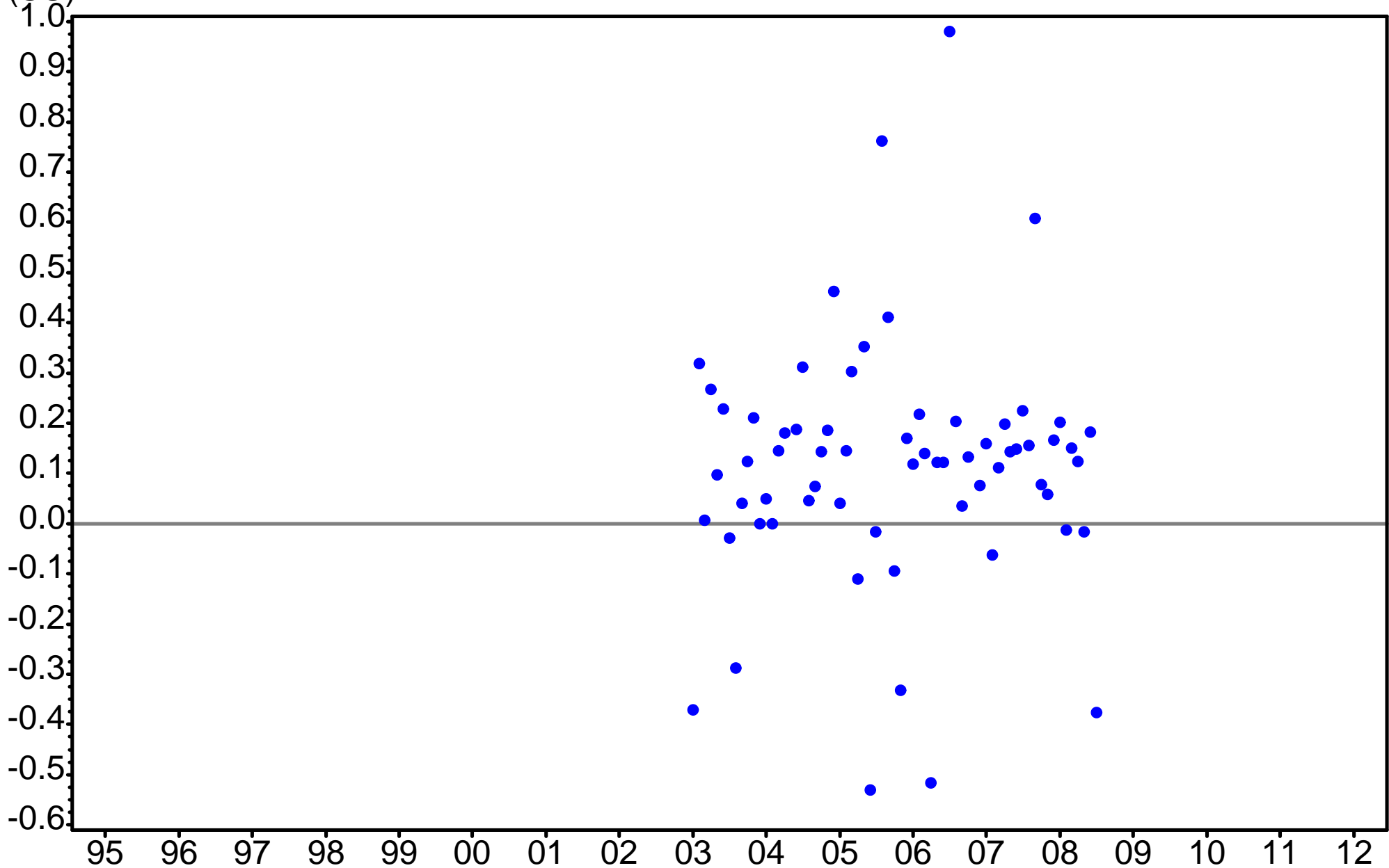
Tidal Peace Trends Appendix - Display 2087
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.16438	0.15533	0.082390	-0.028

Tidal Peace Trends Appendix - Display 2088

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(SU)



Zero Reference Line Shown

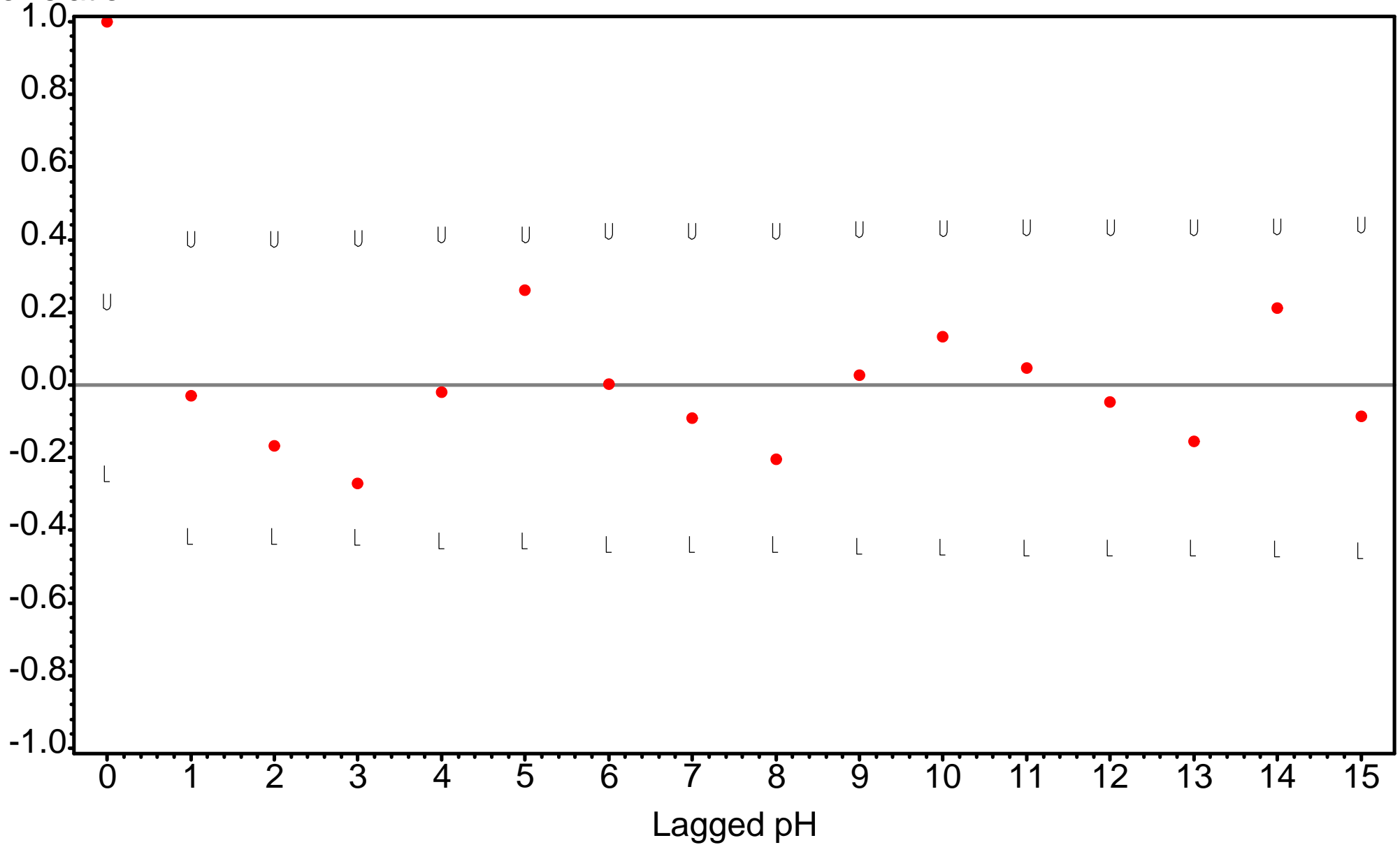
Tidal Peace Trends Appendix - Display 2089
 Autocorrelation Statistics for Surface pH in Tidal Peace
 Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.030	0.204	0.408	-0.408
2	-0.167	0.204	0.408	-0.408
3	-0.272	0.206	0.412	-0.412
4	-0.020	0.211	0.422	-0.422
5	0.262	0.211	0.422	-0.422
6	0.002	0.216	0.431	-0.431
7	-0.091	0.216	0.431	-0.431
8	-0.205	0.216	0.432	-0.432
9	0.027	0.219	0.437	-0.437
10	0.132	0.219	0.438	-0.438
11	0.047	0.220	0.440	-0.440
12	-0.046	0.220	0.440	-0.440
13	-0.154	0.220	0.440	-0.440
14	0.213	0.222	0.443	-0.443
15	-0.085	0.225	0.449	-0.449

Tidal Peace Trends Appendix - Display 2090

Correlogram for Surface pH in Tidal Peace
Adjusted for Seasonal Median and Detrended

Correlation

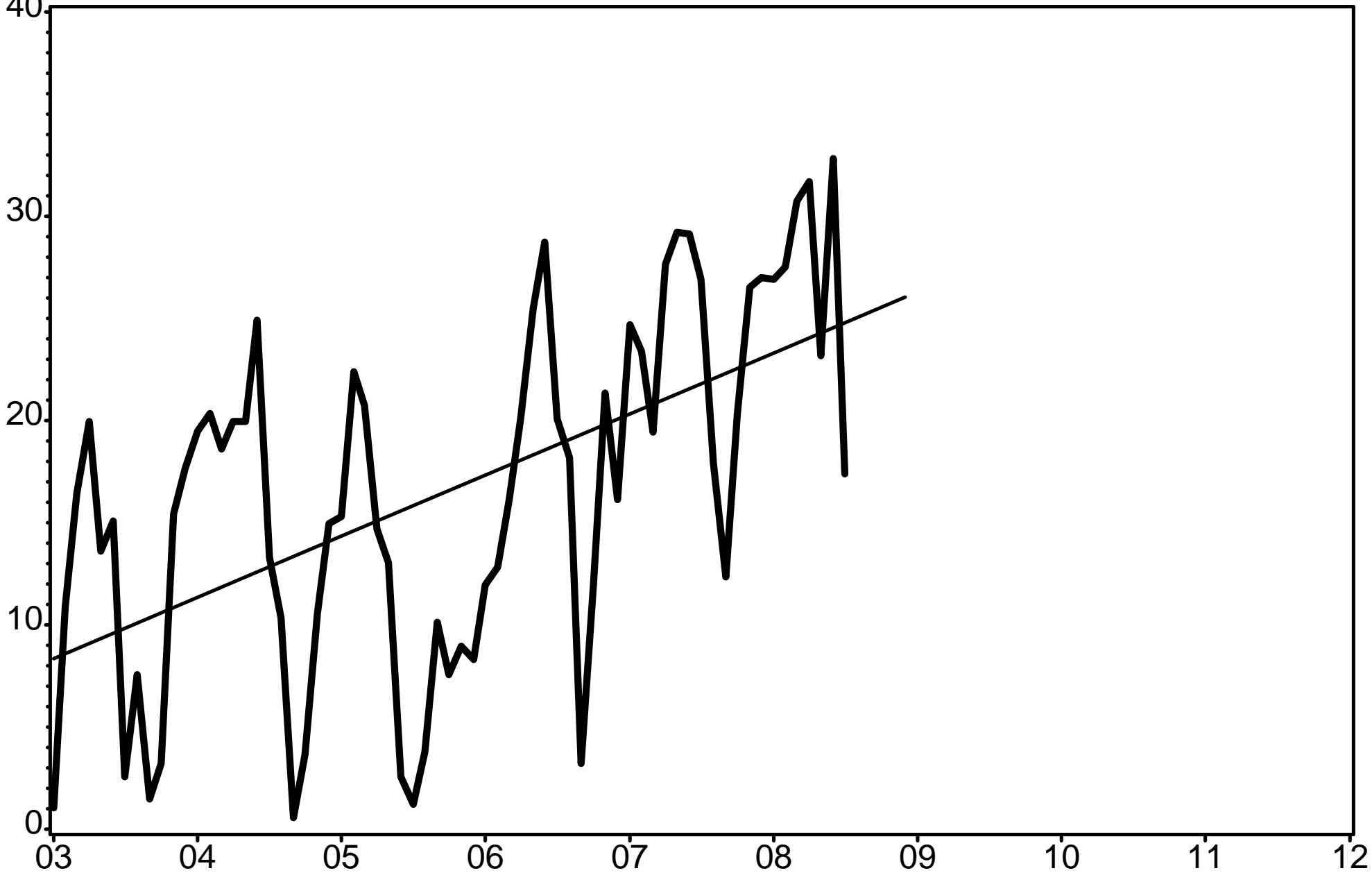


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2091

Monthly Data Time Series
for Surface Salinity in Tidal Peace
Not Adjusted for Seasonal Medians

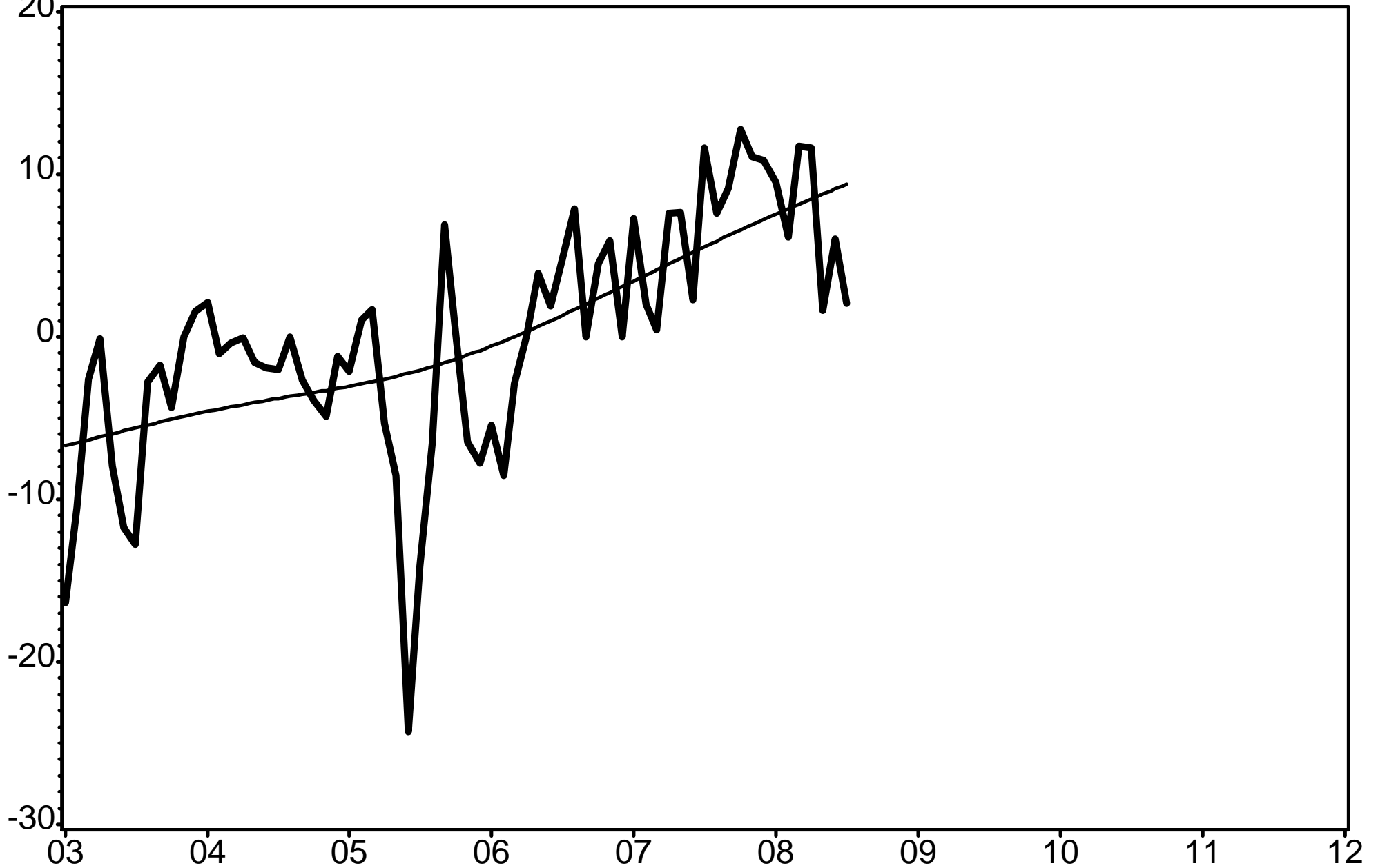
Salinity
(ppt)



Tidal Peace Trends Appendix - Display 2092

Monthly Data Time Series
for Surface Salinity in Tidal Peace
Adjusted for Seasonal Medians

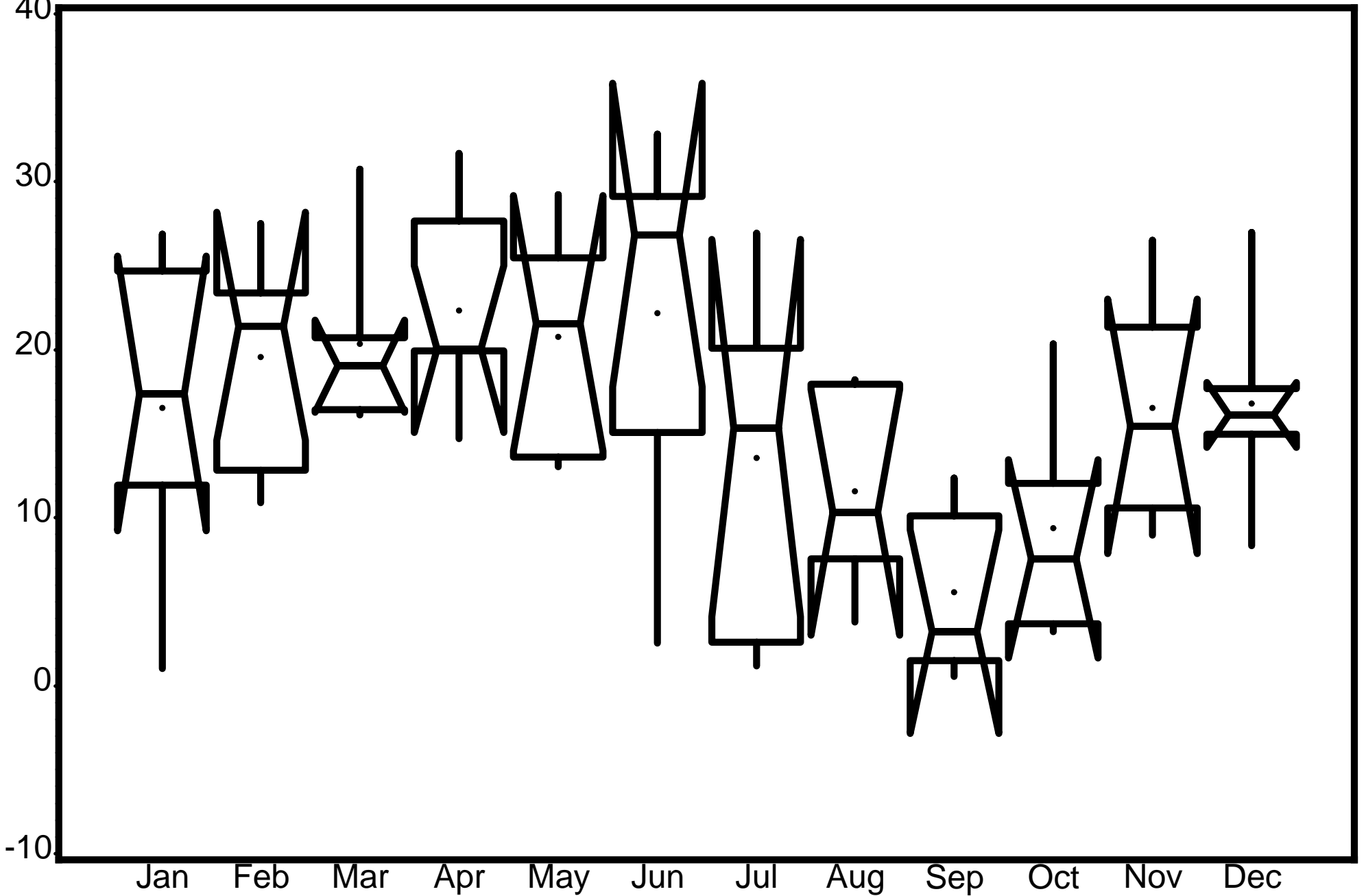
Adjusted
Salinity
(ppt)



Tidal Peace Trends Appendix - Display 2093

Seasonal Univariate Statistics for Surface Salinity in Tidal Peace

Salinity
(ppt)

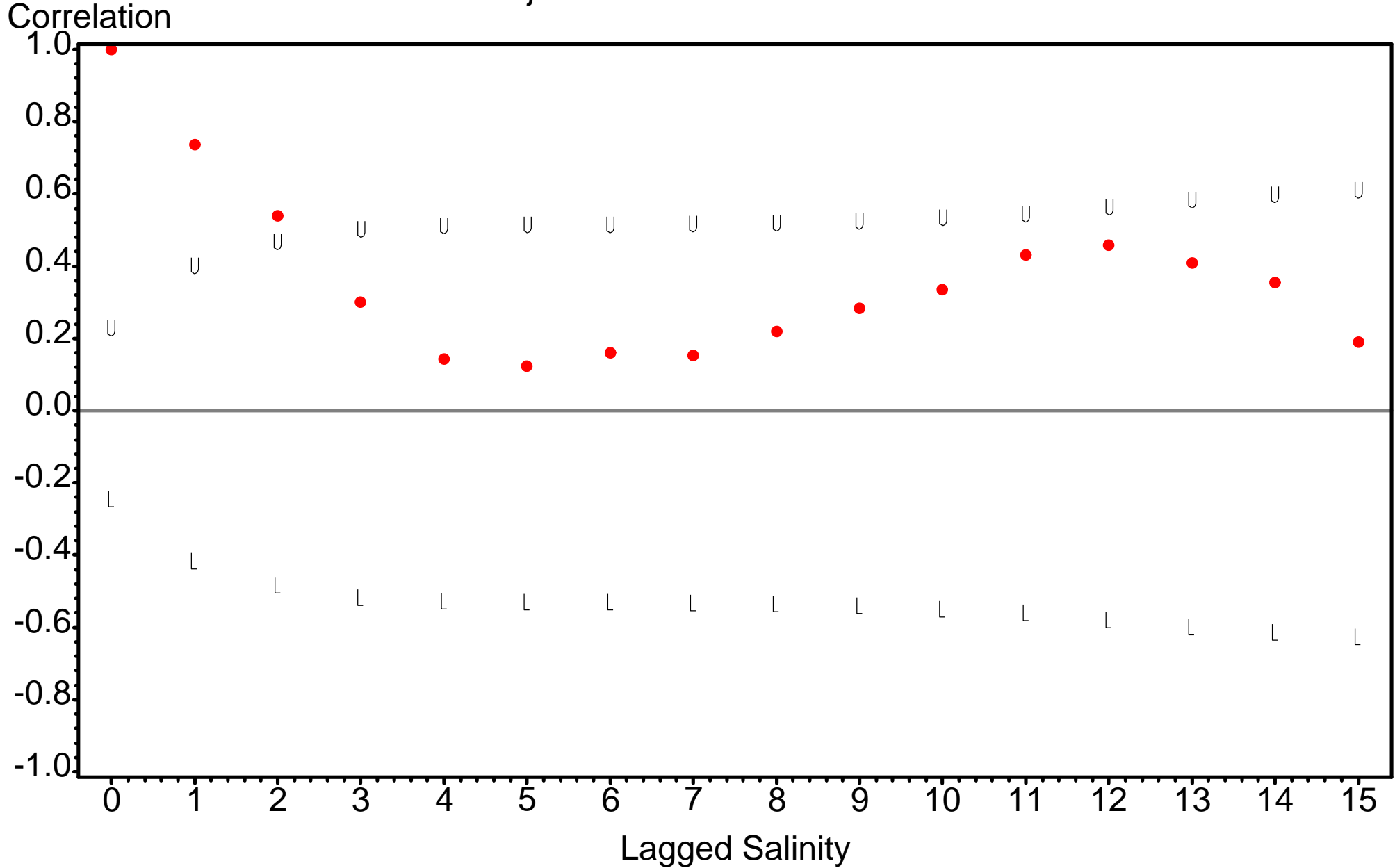


Tidal Peace Trends Appendix - Display 2094
Autocorrelation Statistics for Surface Salinity in Tidal Peace

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.736	0.204	0.408	-0.408
2	0.539	0.238	0.476	-0.476
3	0.301	0.254	0.509	-0.509
4	0.142	0.259	0.519	-0.519
5	0.124	0.260	0.521	-0.521
6	0.159	0.261	0.523	-0.523
7	0.153	0.263	0.525	-0.525
8	0.219	0.264	0.528	-0.528
9	0.284	0.266	0.533	-0.533
10	0.335	0.271	0.541	-0.541
11	0.431	0.276	0.552	-0.552
12	0.459	0.285	0.571	-0.571
13	0.408	0.295	0.591	-0.591
14	0.354	0.303	0.606	-0.606
15	0.189	0.309	0.618	-0.618

Tidal Peace Trends Appendix - Display 2095

Correlogram for Surface Salinity in Tidal Peace
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2096
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.401	0	0	3.113

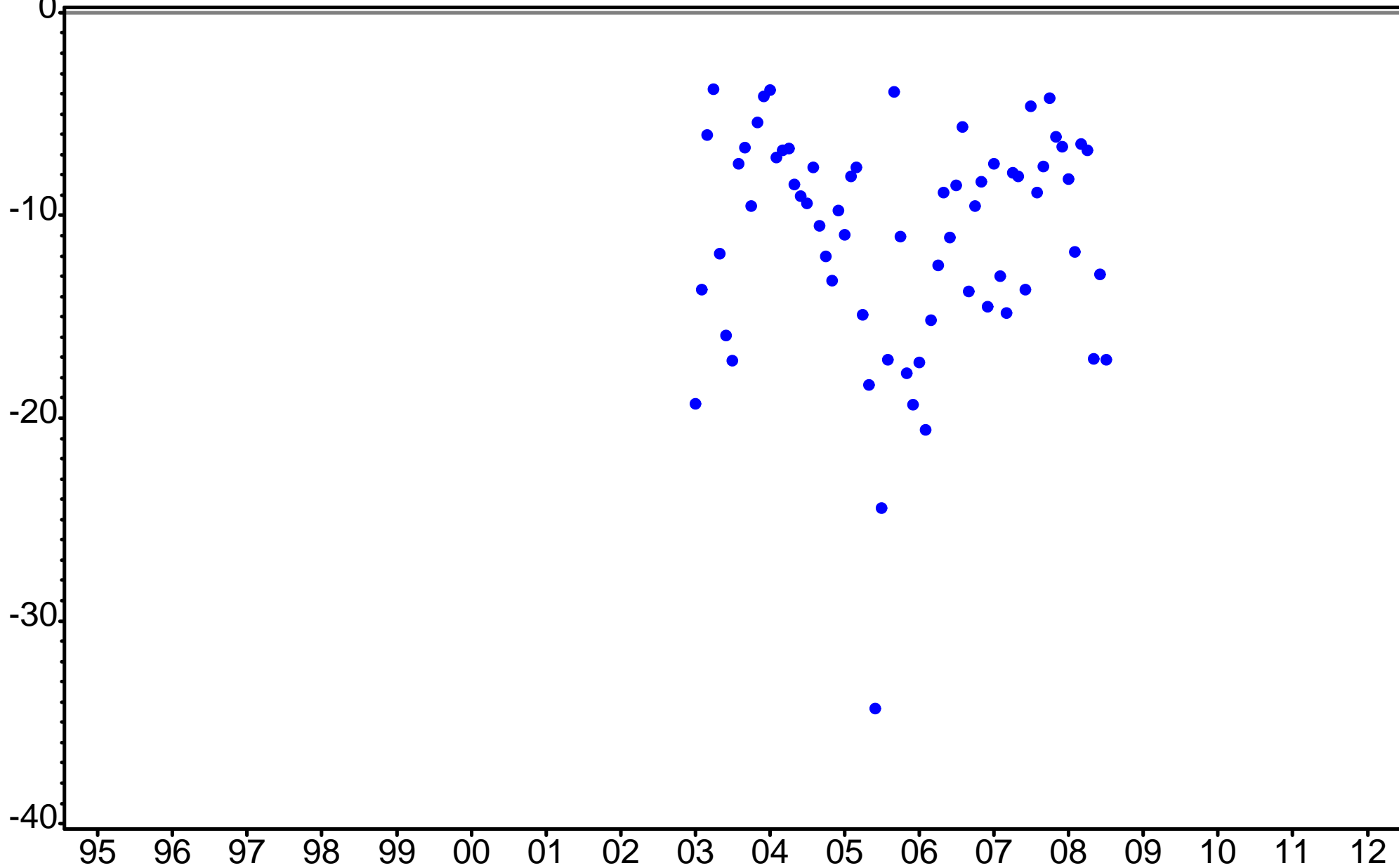
Tidal Peace Trends Appendix - Display 2097
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.57419	.000000119	0.034108	2.94867

Tidal Peace Trends Appendix - Display 2098

Time Series Plot of Surface Salinity Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(ppt)



Zero Reference Line Shown

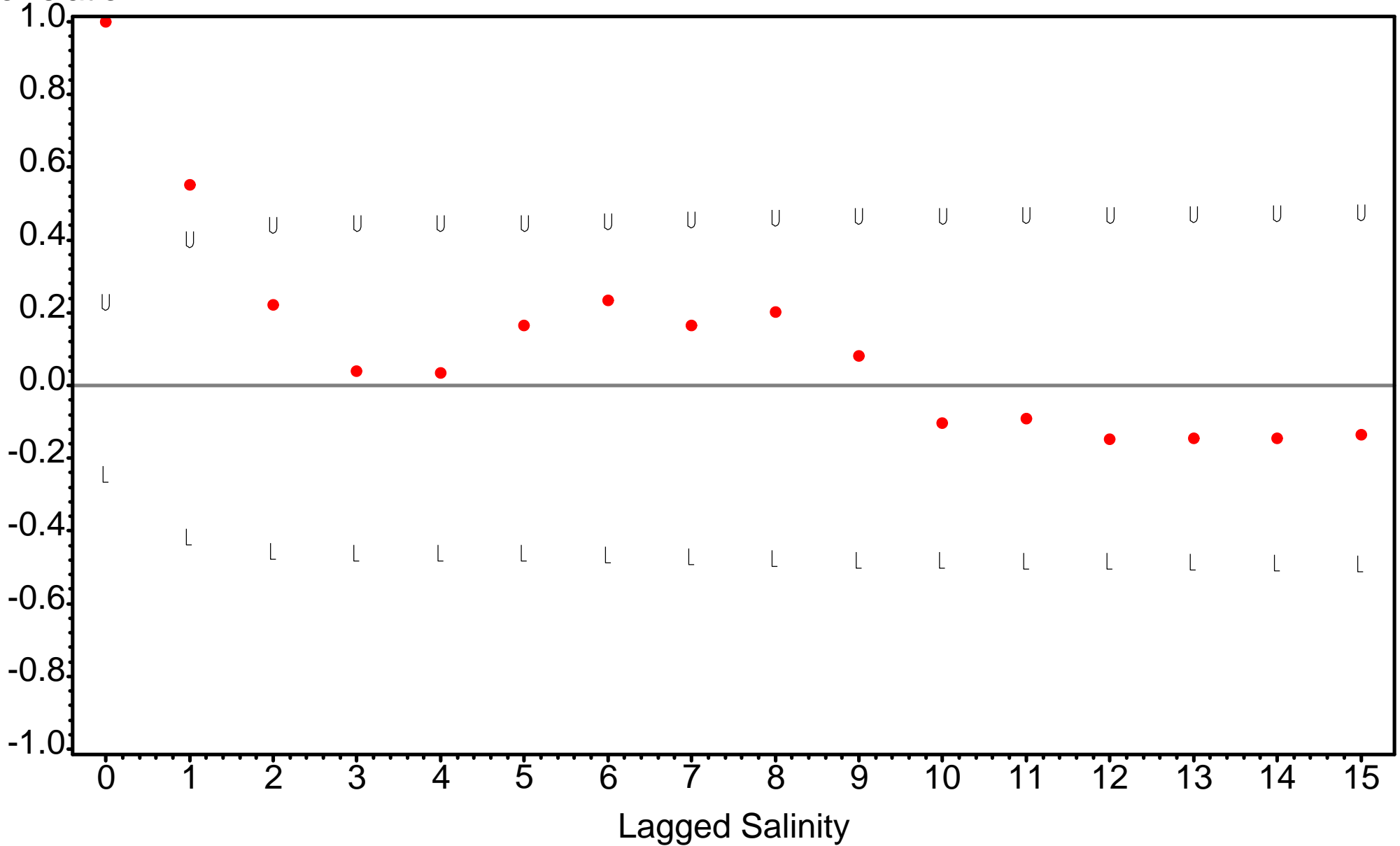
Tidal Peace Trends Appendix - Display 2099
Autocorrelation Statistics for Surface Salinity in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.552	0.204	0.408	-0.408
2	0.222	0.224	0.448	-0.448
3	0.040	0.227	0.454	-0.454
4	0.034	0.227	0.454	-0.454
5	0.165	0.227	0.454	-0.454
6	0.235	0.229	0.457	-0.457
7	0.164	0.232	0.464	-0.464
8	0.201	0.234	0.467	-0.467
9	0.081	0.236	0.472	-0.472
10	-0.104	0.236	0.473	-0.473
11	-0.092	0.237	0.474	-0.474
12	-0.147	0.238	0.475	-0.475
13	-0.144	0.239	0.478	-0.478
14	-0.144	0.240	0.480	-0.480
15	-0.135	0.241	0.483	-0.483

Tidal Peace Trends Appendix - Display 2100

Correlogram for Surface Salinity in Tidal Peace
Adjusted for Seasonal Median and Detrended

Correlation

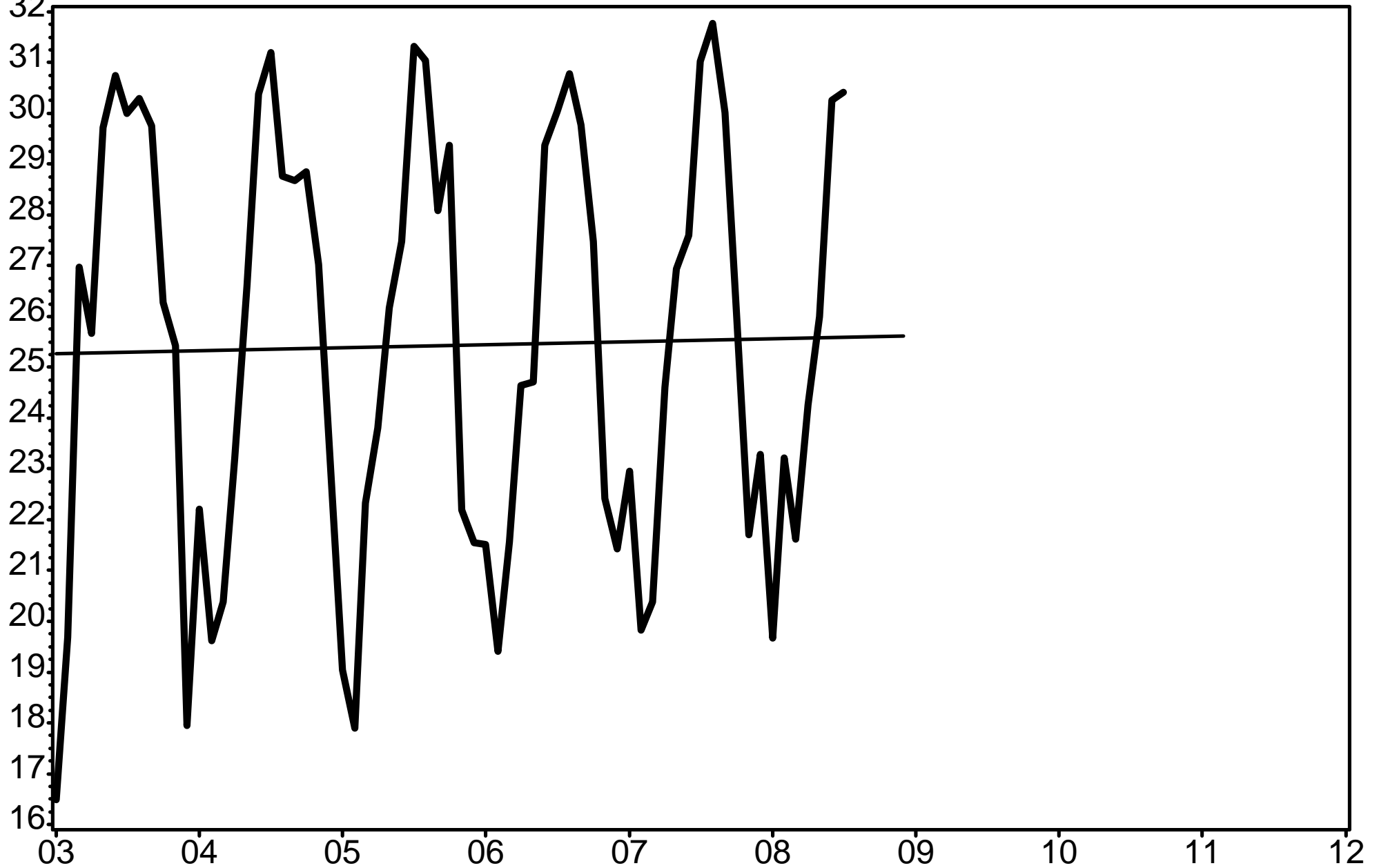


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2101

Monthly Data Time Series
for Surface Temperature in Tidal Peace
Not Adjusted for Seasonal Medians

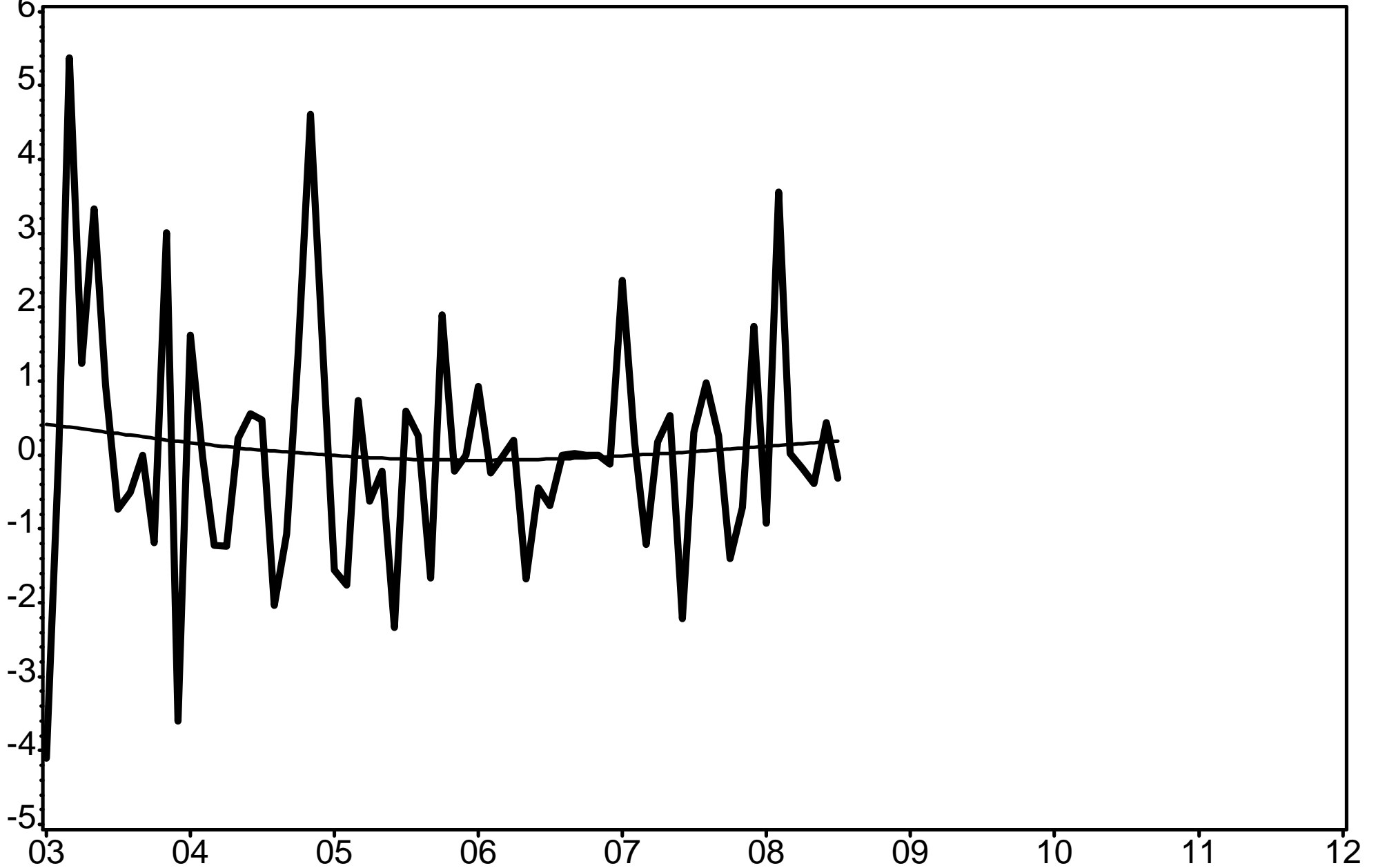
TEMP_C
(Degree C)



Tidal Peace Trends Appendix - Display 2102

Monthly Data Time Series
for Surface Temperature in Tidal Peace
Adjusted for Seasonal Medians

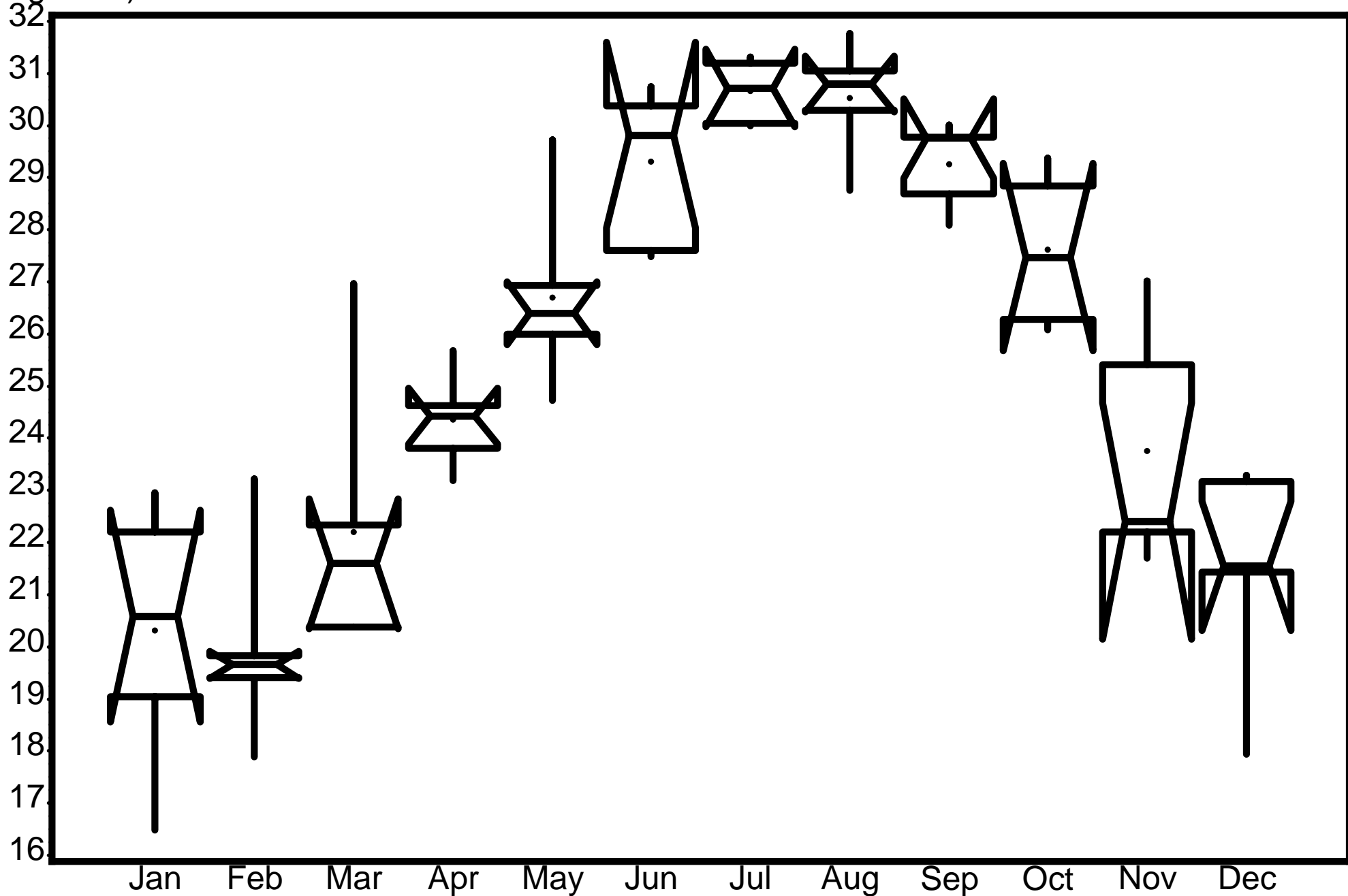
Adjusted
TEMP_C
(Degree C)



Tidal Peace Trends Appendix - Display 2103

Seasonal Univariate Statistics
for Surface Temperature in Tidal Peace

TEMP_C
(Degree C)



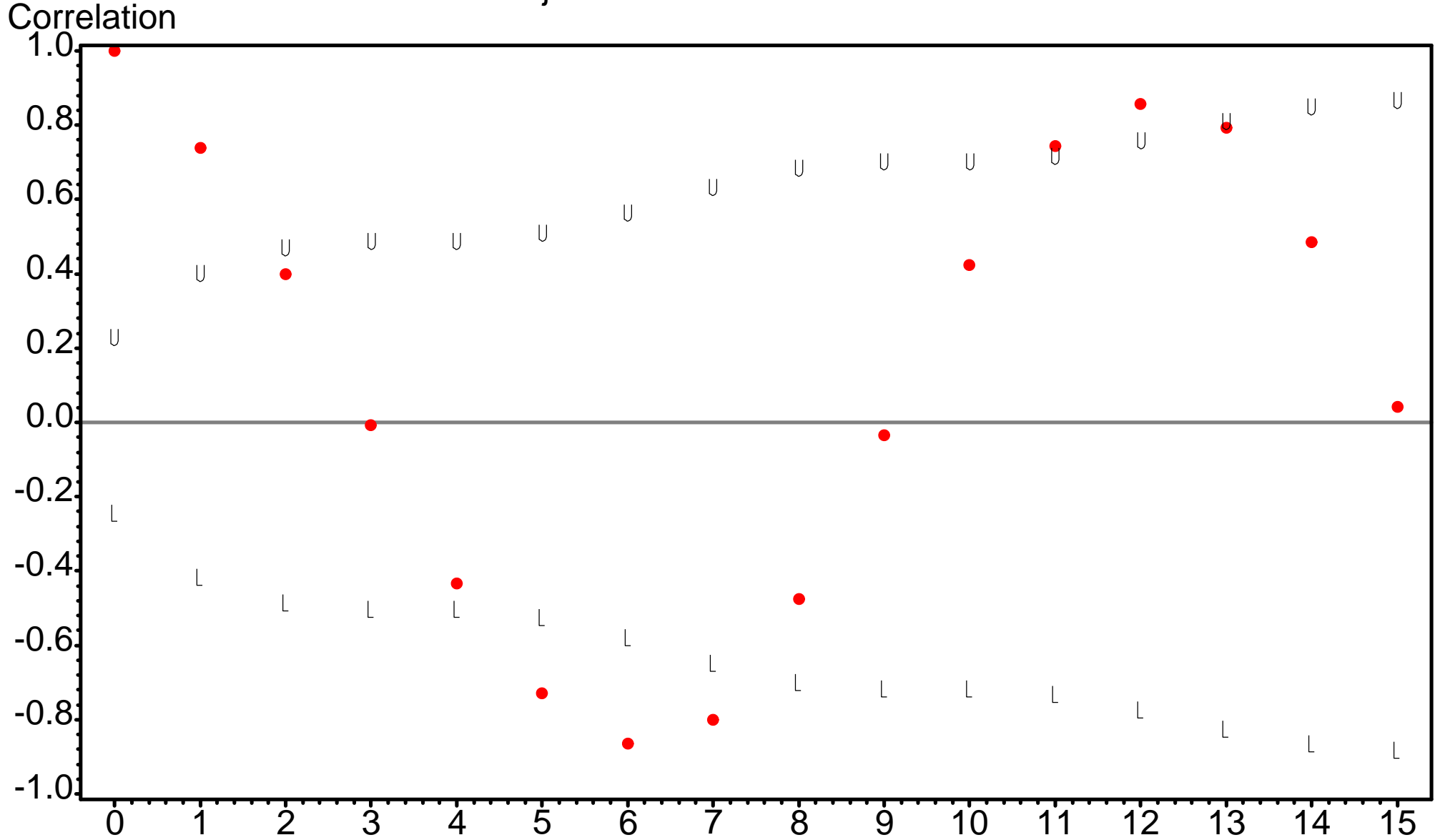
Tidal Peace Trends Appendix - Display 2104
Autocorrelation Statistics for Surface Temperature in Tidal Peace

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.738	0.204	0.408	-0.408
2	0.400	0.238	0.477	-0.477
3	-0.007	0.247	0.495	-0.495
4	-0.434	0.247	0.495	-0.495
5	-0.728	0.258	0.516	-0.516
6	-0.865	0.285	0.570	-0.570
7	-0.800	0.319	0.639	-0.639
8	-0.476	0.346	0.692	-0.692
9	-0.034	0.355	0.710	-0.710
10	0.424	0.355	0.710	-0.710
11	0.743	0.362	0.724	-0.724
12	0.856	0.383	0.765	-0.765
13	0.792	0.408	0.817	-0.817
14	0.484	0.429	0.858	-0.858
15	0.042	0.437	0.873	-0.873

Tidal Peace Trends Appendix - Display 2105

Correlogram for Surface Temperature in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2106
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.015	0.863	0.863	0.037

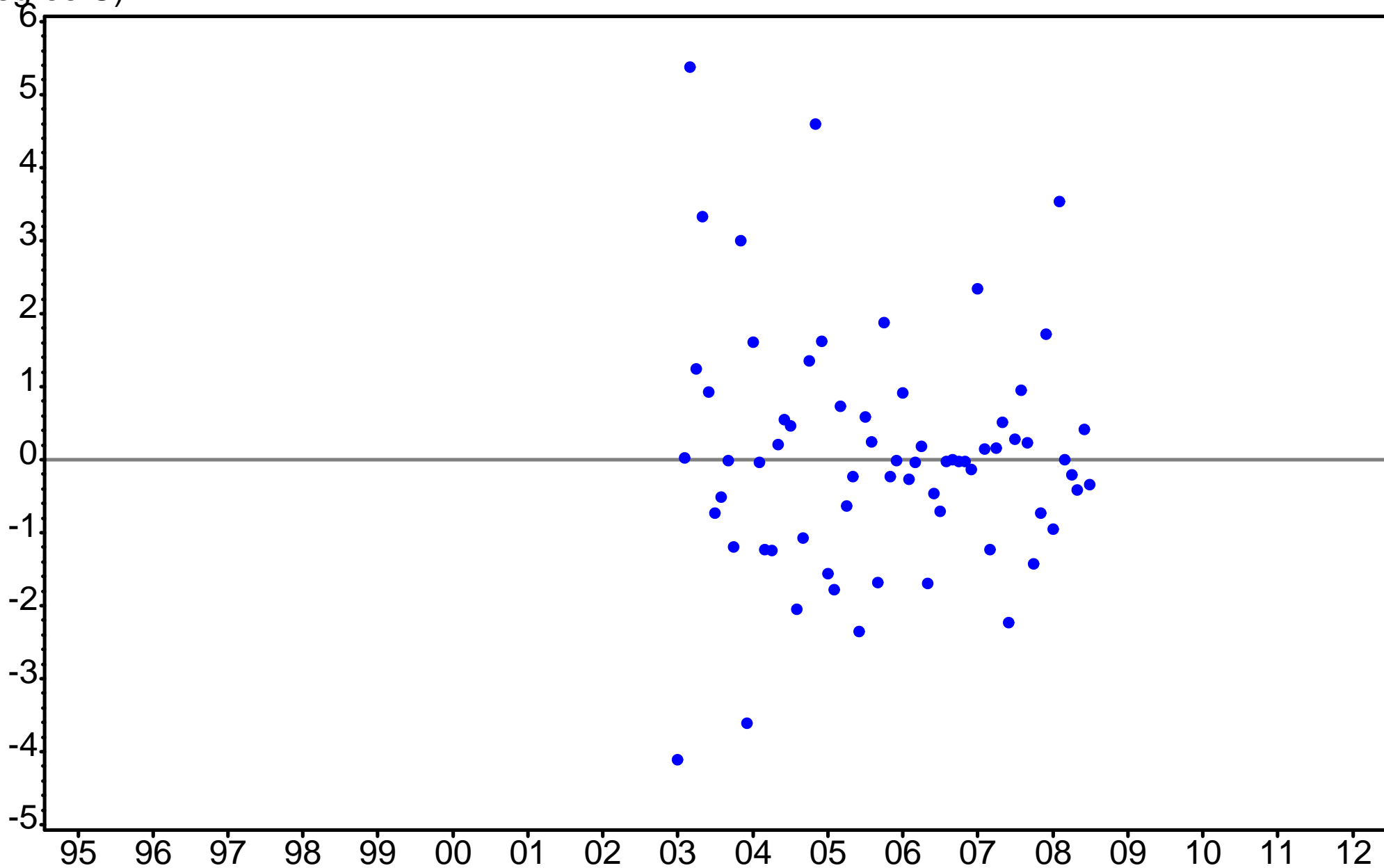
Tidal Peace Trends Appendix - Display 2107
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.00645161	1	1	.00433334

Tidal Peace Trends Appendix - Display 2108

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(Degree C)



Zero Reference Line Shown

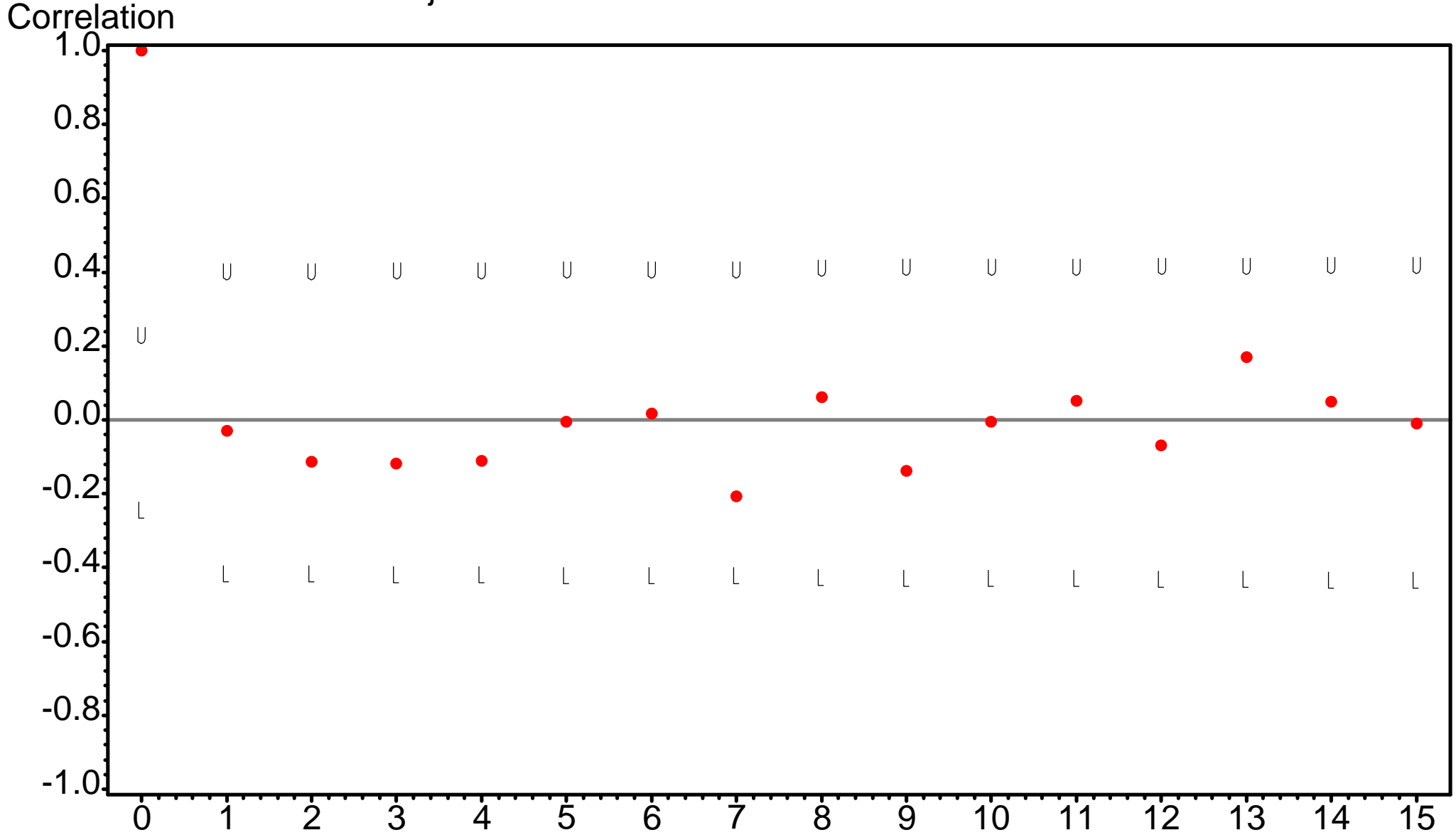
Tidal Peace Trends Appendix - Display 2109
Autocorrelation Statistics for Surface Temperature in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	-0.029	0.204	0.408	-0.408
2	-0.112	0.204	0.408	-0.408
3	-0.119	0.205	0.410	-0.410
4	-0.111	0.206	0.412	-0.412
5	-0.004	0.207	0.414	-0.414
6	0.017	0.207	0.414	-0.414
7	-0.207	0.207	0.414	-0.414
8	0.062	0.210	0.419	-0.419
9	-0.138	0.210	0.420	-0.420
10	-0.005	0.211	0.422	-0.422
11	0.052	0.211	0.422	-0.422
12	-0.070	0.211	0.423	-0.423
13	0.169	0.212	0.423	-0.423
14	0.050	0.214	0.427	-0.427
15	-0.011	0.214	0.427	-0.427

Tidal Peace Trends Appendix - Display 2110

Correlogram for Surface Temperature in Tidal Peace

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

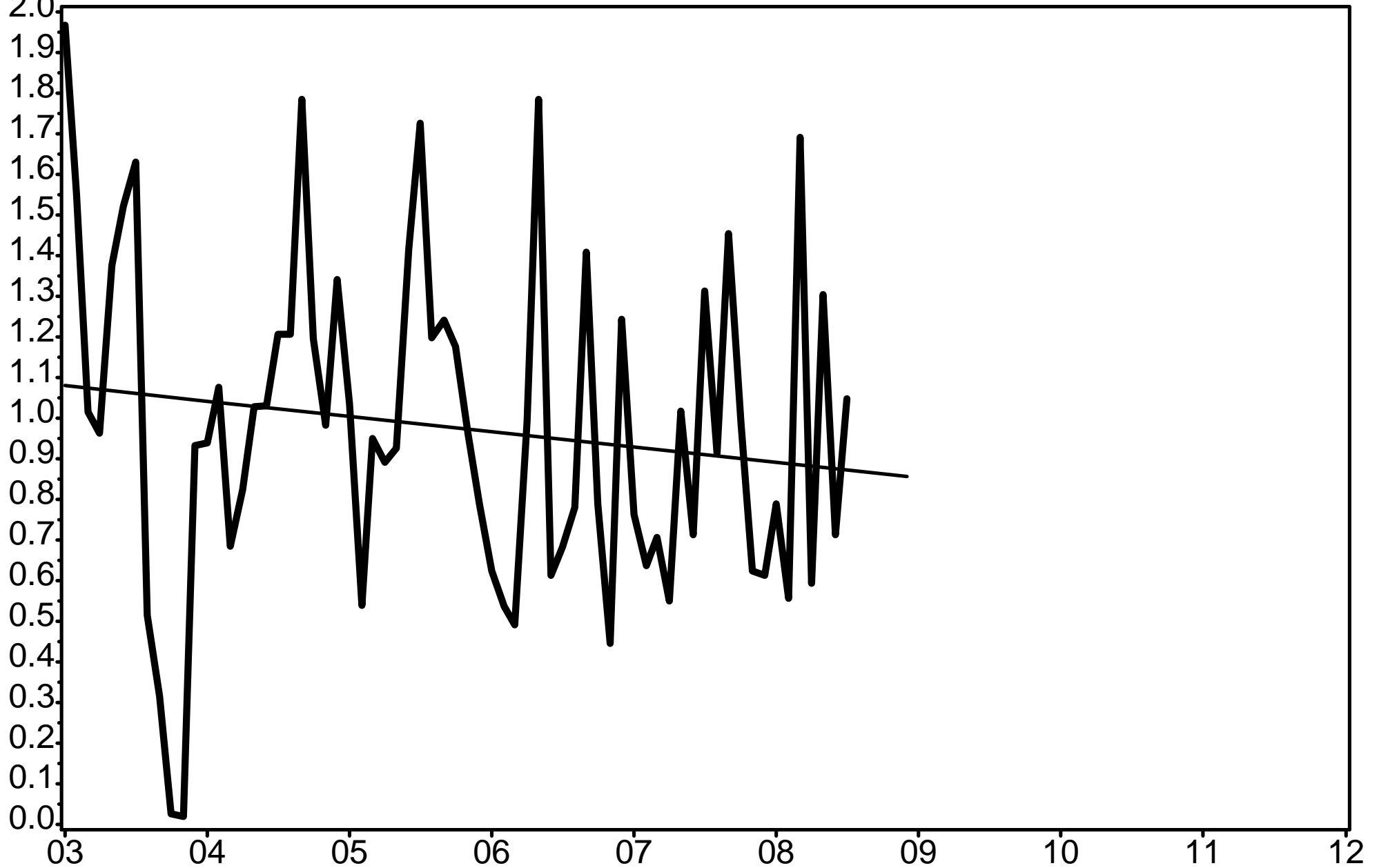
Tidal Peace Trends Appendix - Display 2111

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Peace

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



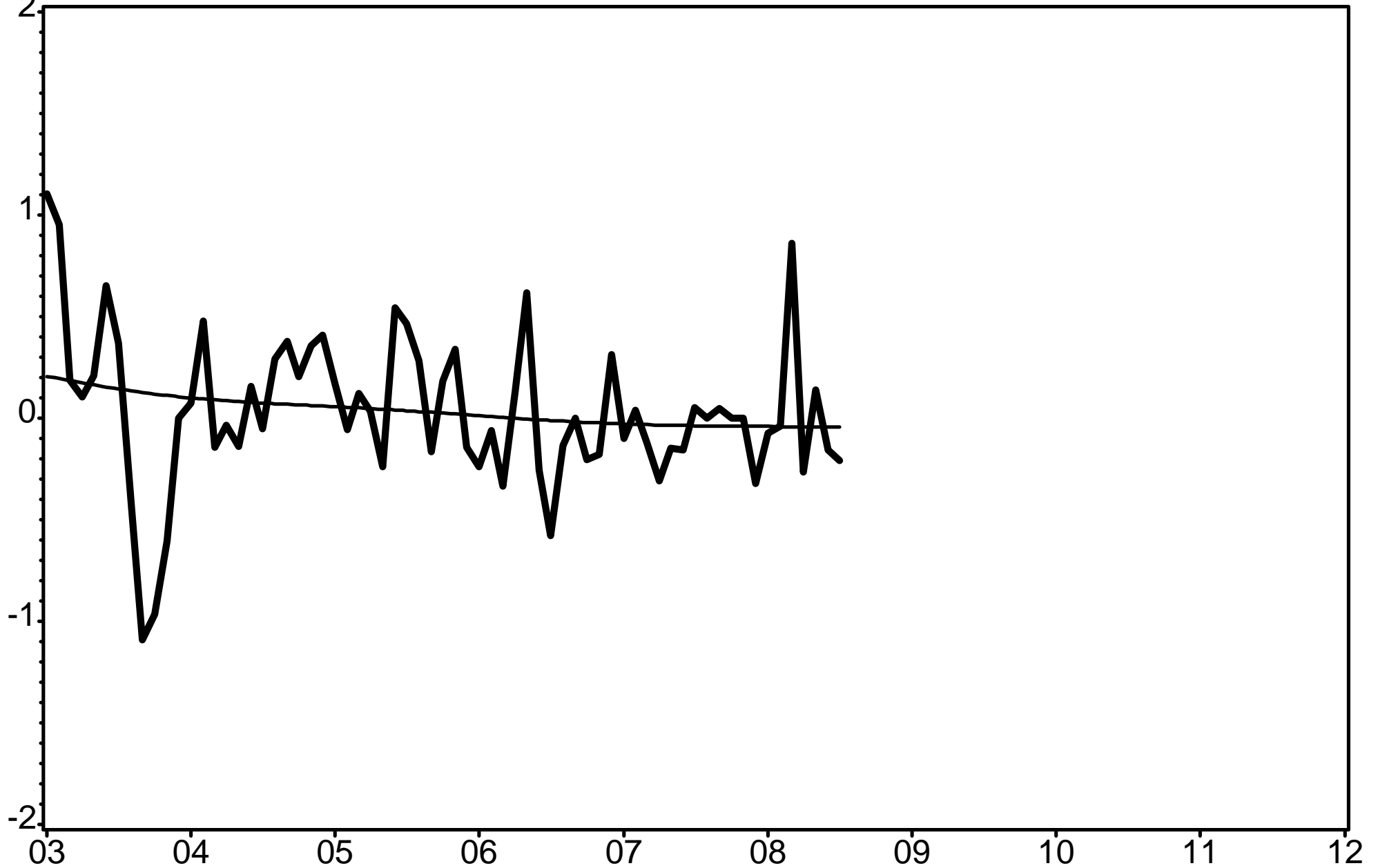
Tidal Peace Trends Appendix - Display 2112

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

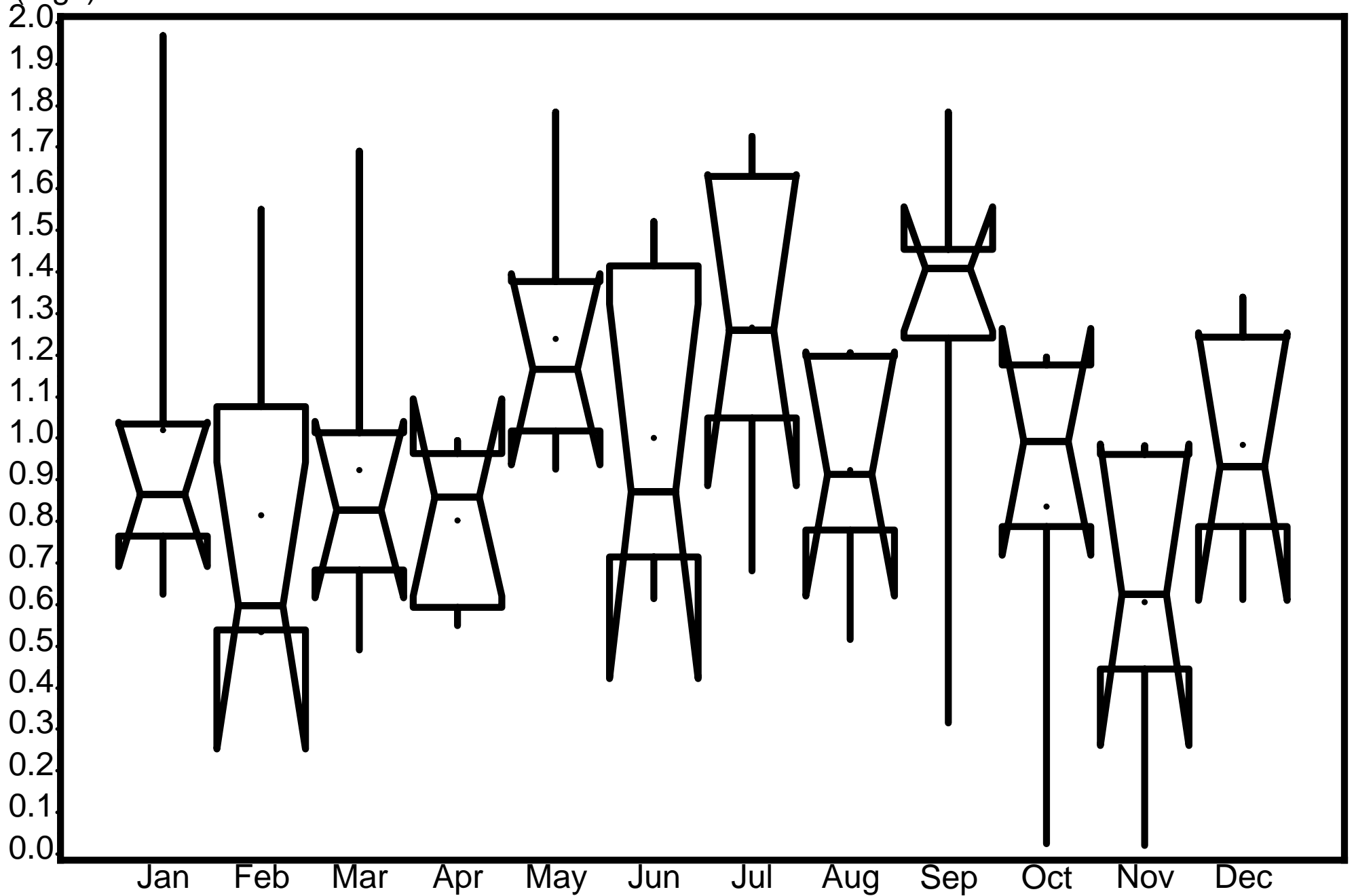


Tidal Peace Trends Appendix - Display 2113

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Tidal Peace

TKN_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2114

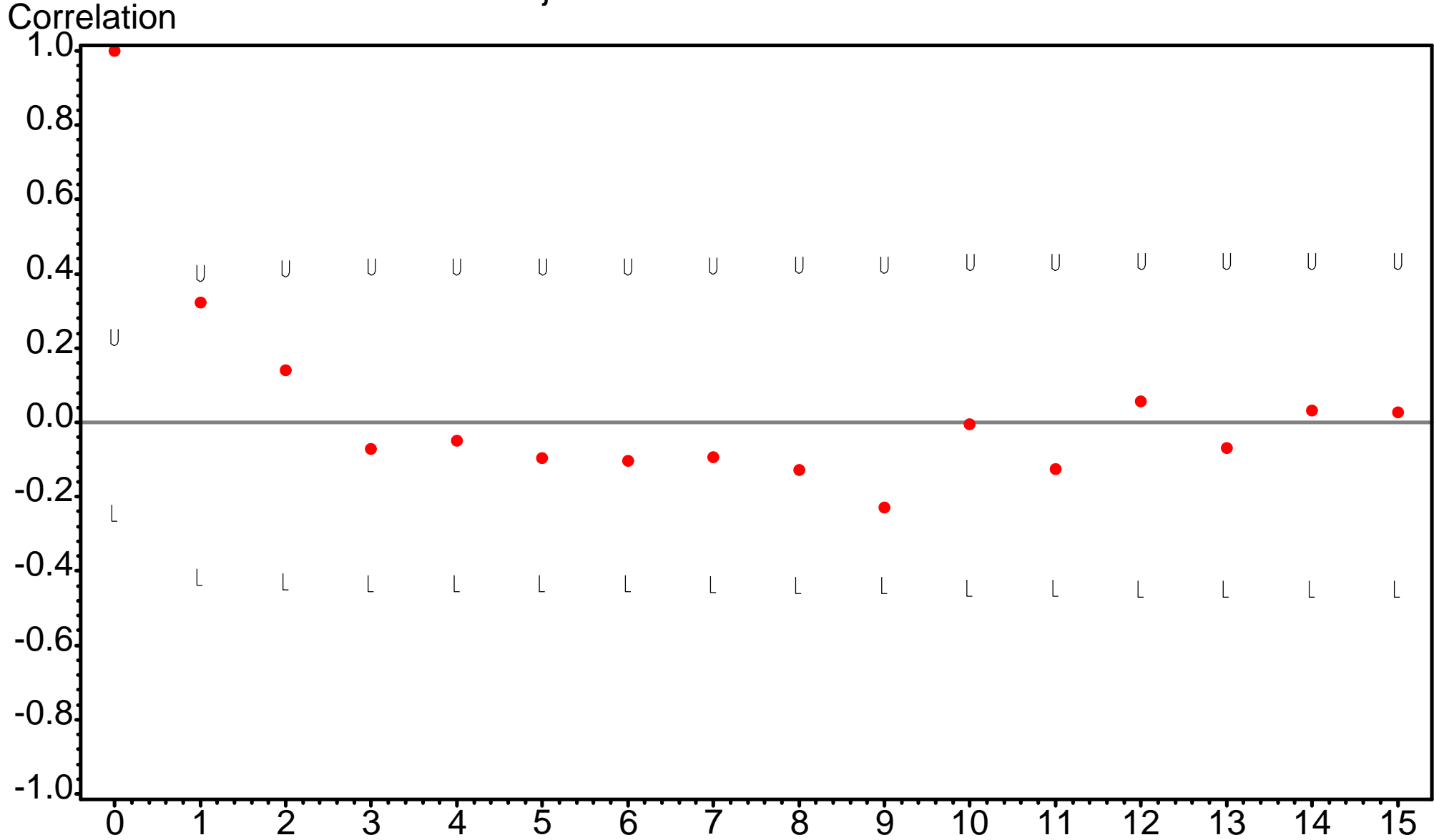
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Peace

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.323	0.204	0.408	-0.408
2	0.140	0.211	0.422	-0.422
3	-0.072	0.212	0.425	-0.425
4	-0.048	0.213	0.425	-0.425
5	-0.096	0.213	0.426	-0.426
6	-0.104	0.213	0.427	-0.427
7	-0.093	0.214	0.428	-0.428
8	-0.128	0.215	0.430	-0.430
9	-0.230	0.216	0.432	-0.432
10	-0.005	0.219	0.438	-0.438
11	-0.125	0.219	0.438	-0.438
12	0.057	0.220	0.440	-0.440
13	-0.069	0.220	0.441	-0.441
14	0.032	0.221	0.441	-0.441
15	0.027	0.221	0.441	-0.441

Tidal Peace Trends Appendix - Display 2115

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Peace

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2116
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Peace
Unadjusted for Seasonal Medians

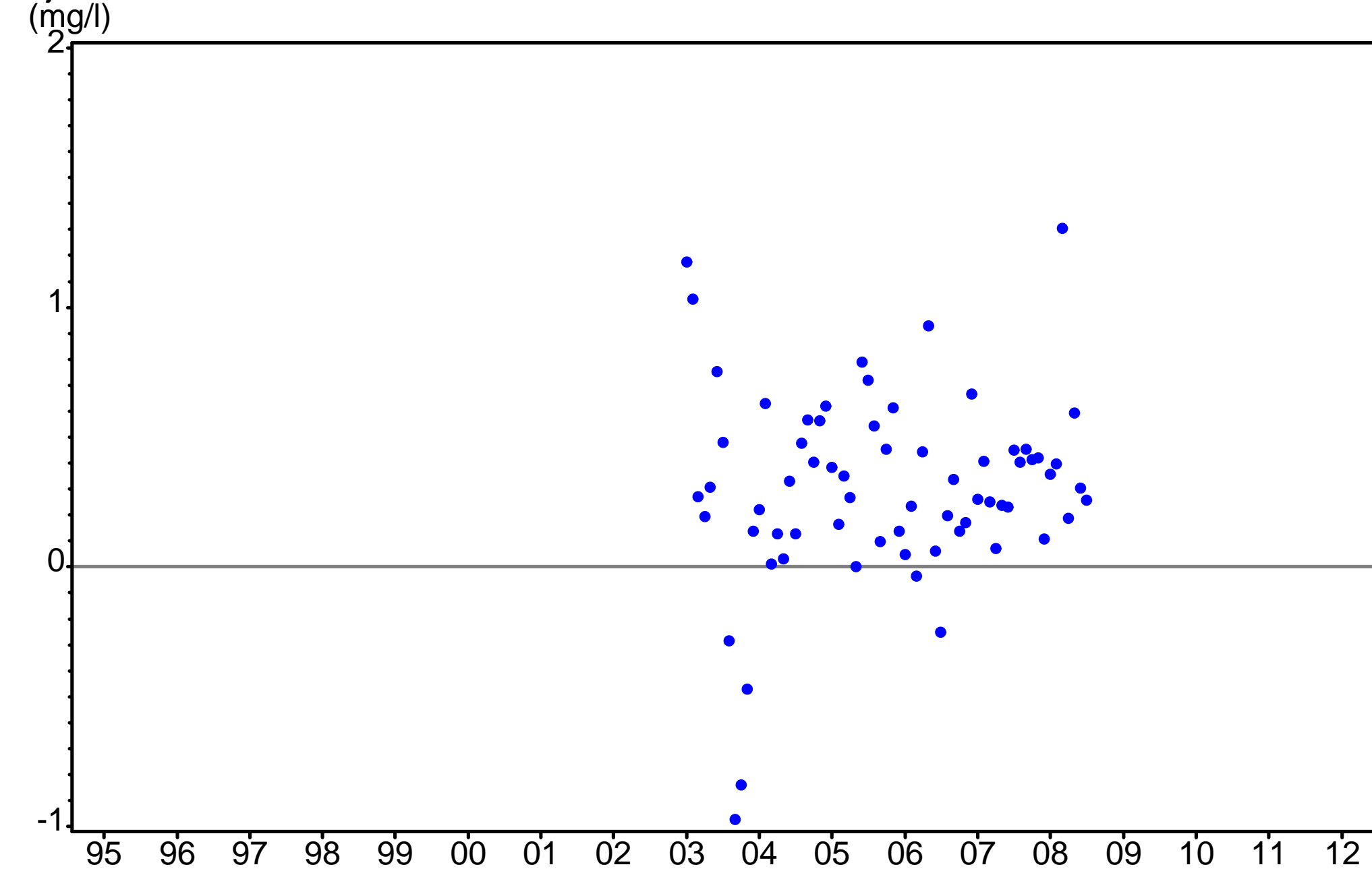
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13	0.12	0.12	-0.055

Tidal Peace Trends Appendix - Display 2117
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.20645	0.064256	0.15128	-0.072

Tidal Peace Trends Appendix - Display 2118

Time Series Plot of Surface Total Kjeldahl Nitrogen Data Adjusted for Season and Detrended
Adjusted Tidal Peace



Zero Reference Line Shown

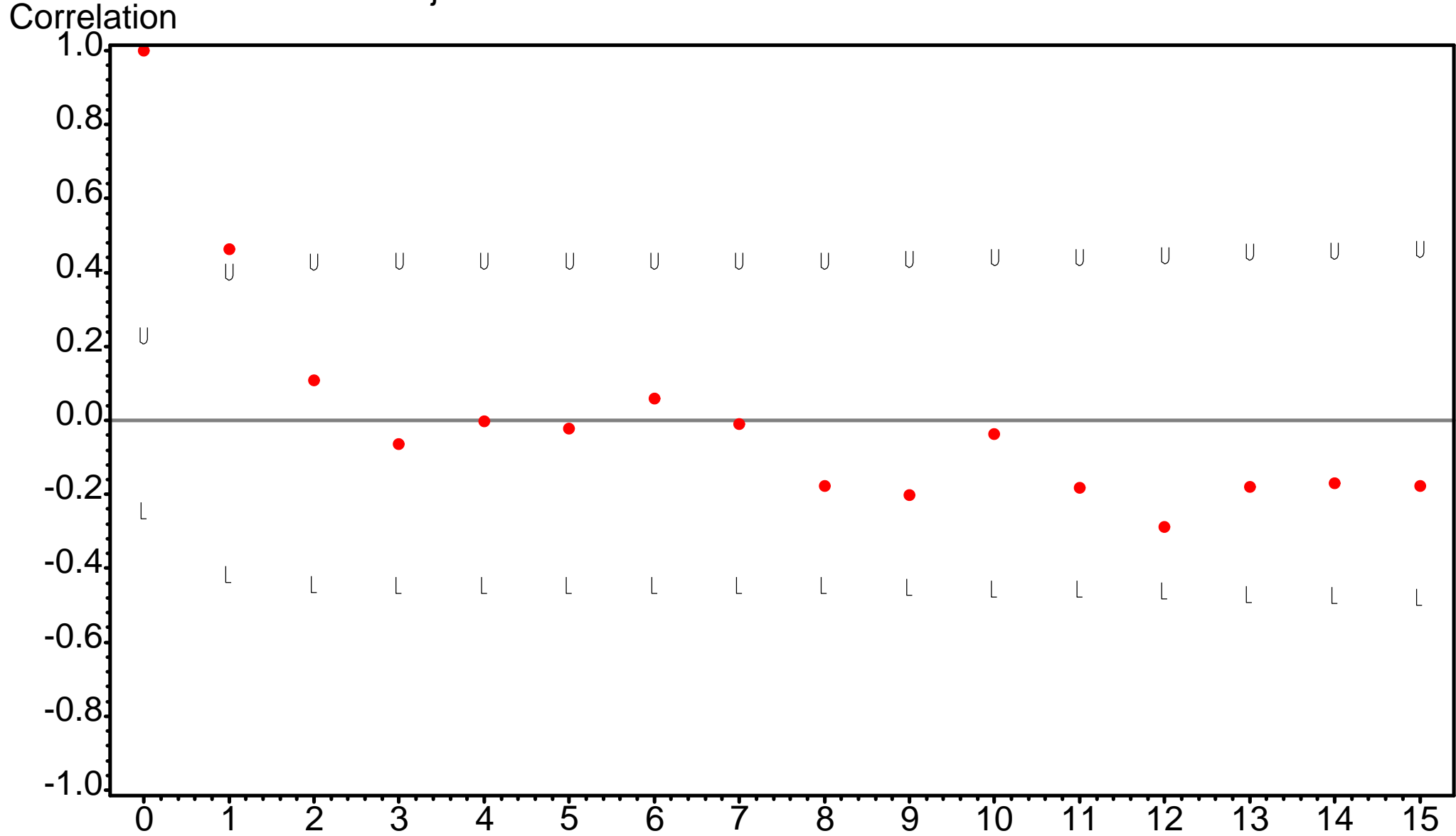
Tidal Peace Trends Appendix - Display 2119
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.463	0.204	0.408	-0.408
2	0.108	0.218	0.436	-0.436
3	-0.065	0.219	0.438	-0.438
4	-0.002	0.219	0.439	-0.439
5	-0.021	0.219	0.439	-0.439
6	0.059	0.219	0.439	-0.439
7	-0.010	0.220	0.439	-0.439
8	-0.178	0.220	0.439	-0.439
9	-0.202	0.222	0.443	-0.443
10	-0.038	0.224	0.448	-0.448
11	-0.183	0.224	0.448	-0.448
12	-0.288	0.226	0.452	-0.452
13	-0.179	0.231	0.462	-0.462
14	-0.170	0.233	0.466	-0.466
15	-0.178	0.235	0.470	-0.470

Tidal Peace Trends Appendix - Display 2120

Correlogram for Surface Total Kjeldahl Nitrogen in Tidal Peace

Adjusted for Seasonal Median and Detrended



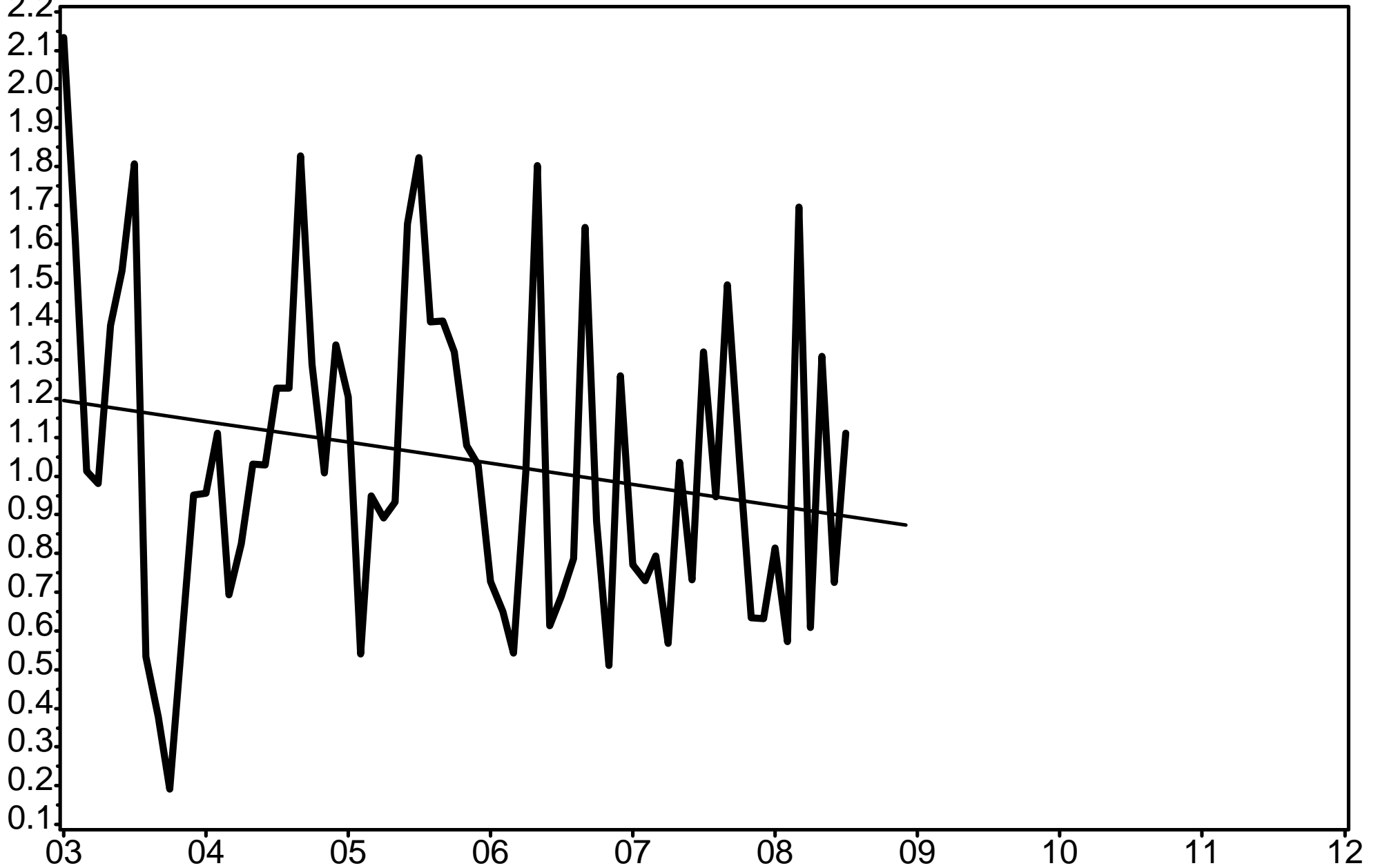
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2121

Monthly Data Time Series
for Surface Total Nitrogen in Tidal Peace
Not Adjusted for Seasonal Medians

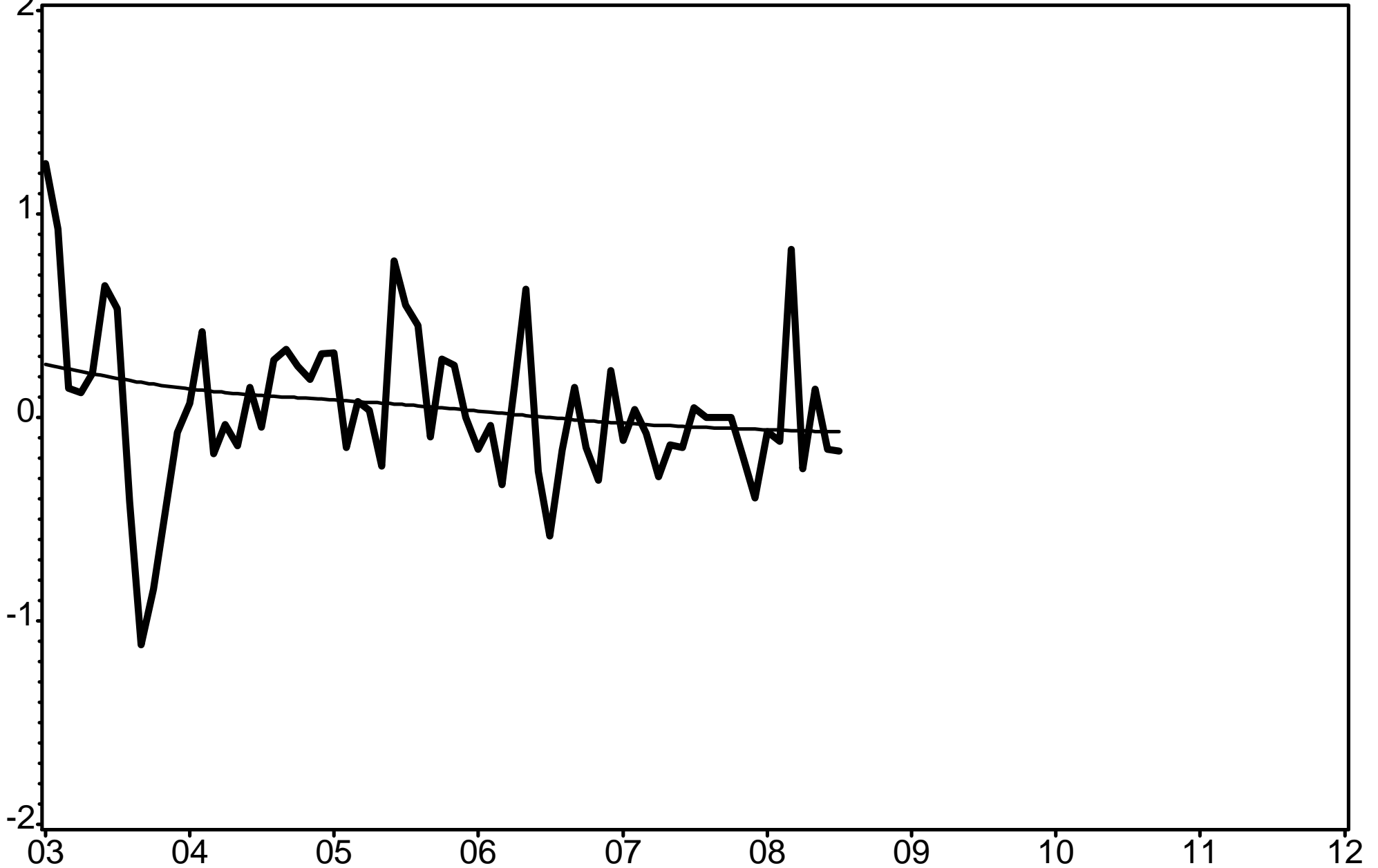
TN_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2122

Monthly Data Time Series
for Surface Total Nitrogen in Tidal Peace
Adjusted for Seasonal Medians

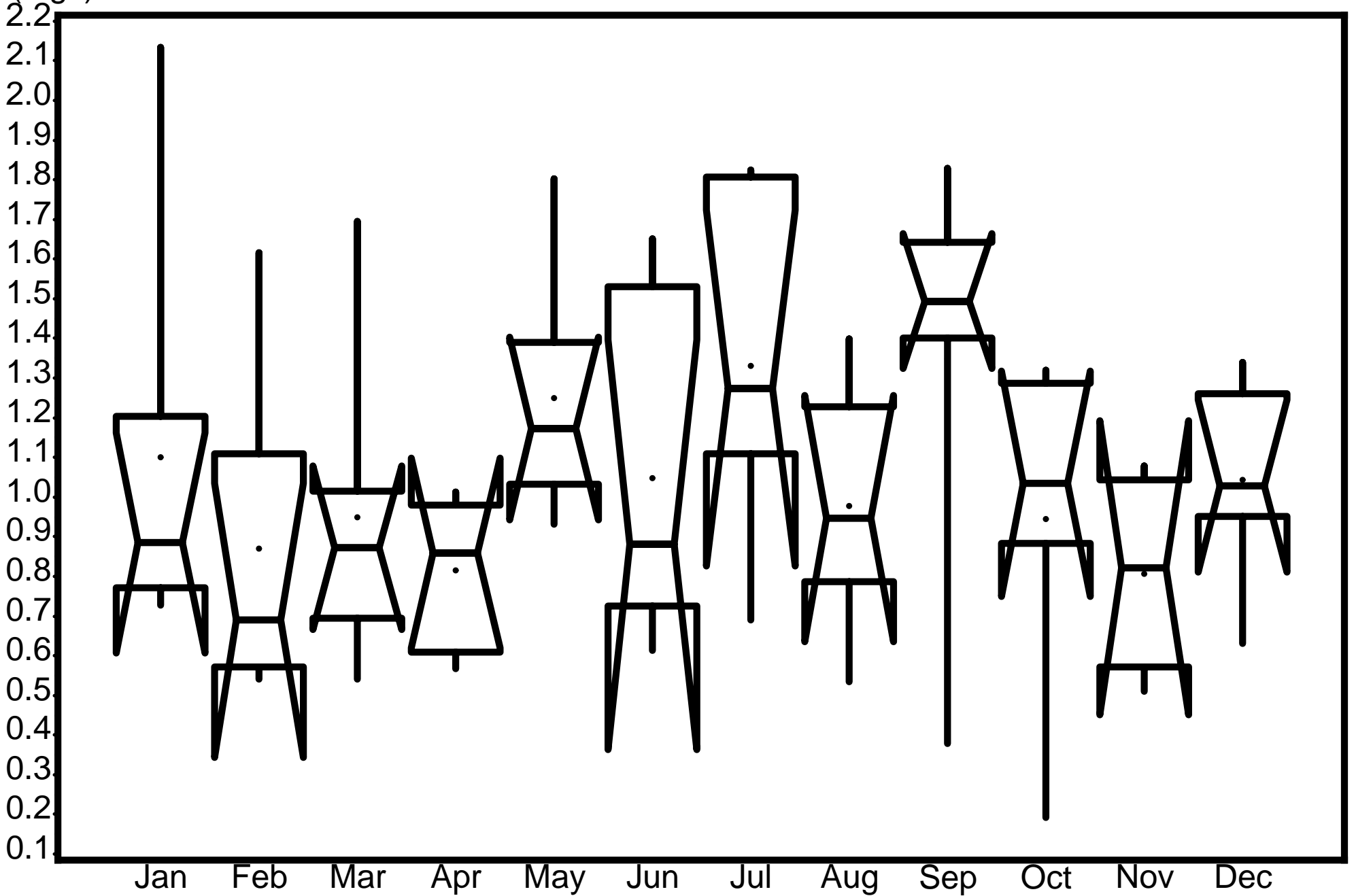
Adjusted
TN_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2123

Seasonal Univariate Statistics
for Surface Total Nitrogen in Tidal Peace

TN_mgl
(mg/l)



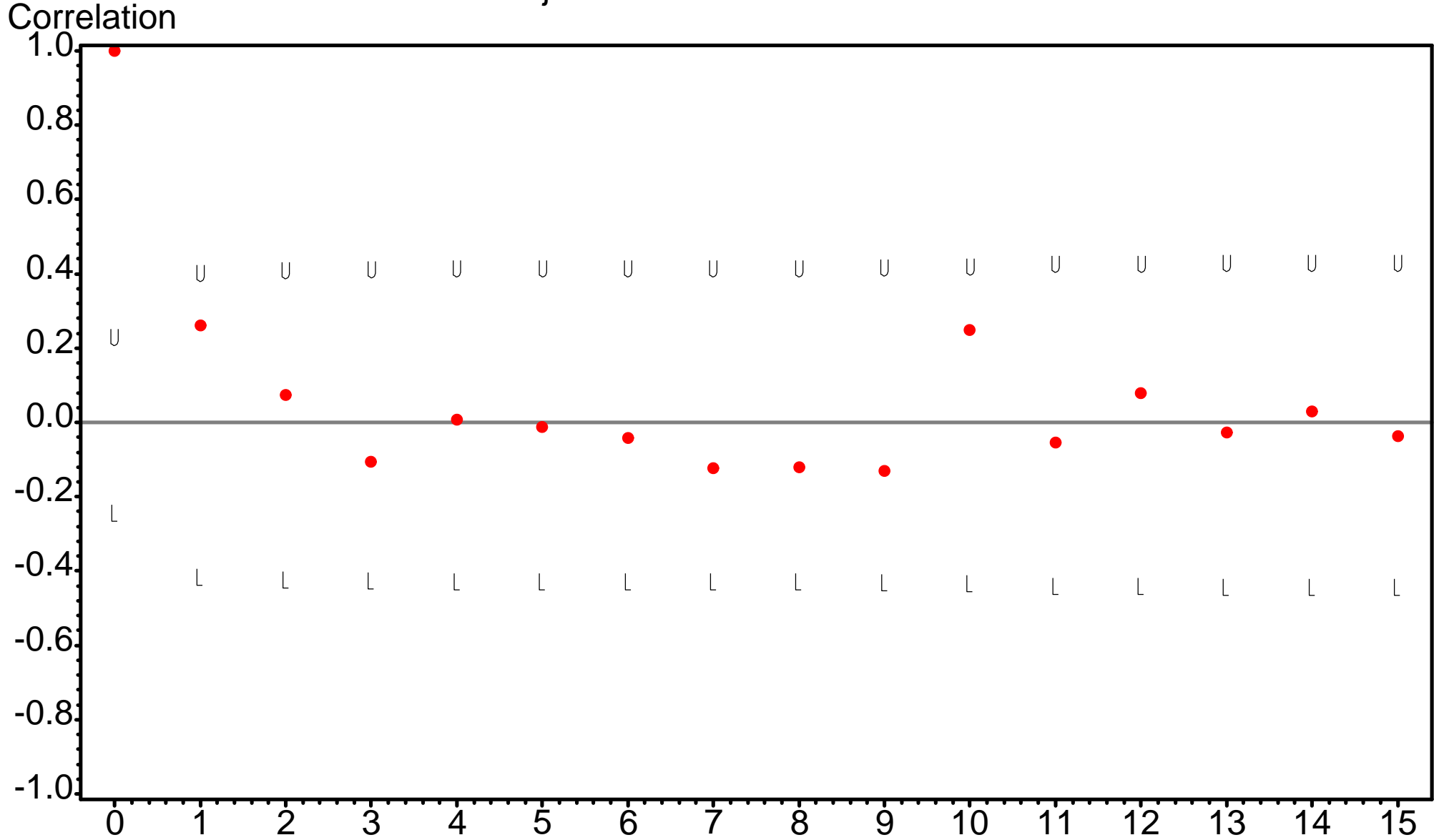
Tidal Peace Trends Appendix - Display 2124
Autocorrelation Statistics for Surface Total Nitrogen in Tidal Peace

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.261	0.204	0.408	-0.408
2	0.073	0.209	0.417	-0.417
3	-0.105	0.209	0.418	-0.418
4	0.008	0.210	0.420	-0.420
5	-0.013	0.210	0.420	-0.420
6	-0.042	0.210	0.420	-0.420
7	-0.122	0.210	0.420	-0.420
8	-0.120	0.211	0.422	-0.422
9	-0.130	0.212	0.424	-0.424
10	0.249	0.213	0.426	-0.426
11	-0.054	0.217	0.434	-0.434
12	0.078	0.217	0.434	-0.434
13	-0.027	0.218	0.435	-0.435
14	0.030	0.218	0.435	-0.435
15	-0.037	0.218	0.435	-0.435

Tidal Peace Trends Appendix - Display 2125

Correlogram for Surface Total Nitrogen in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2126
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.147	0.081	0.081	-0.06

Tidal Peace Trends Appendix - Display 2127
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.17881	0.11603	0.17511	-0.076

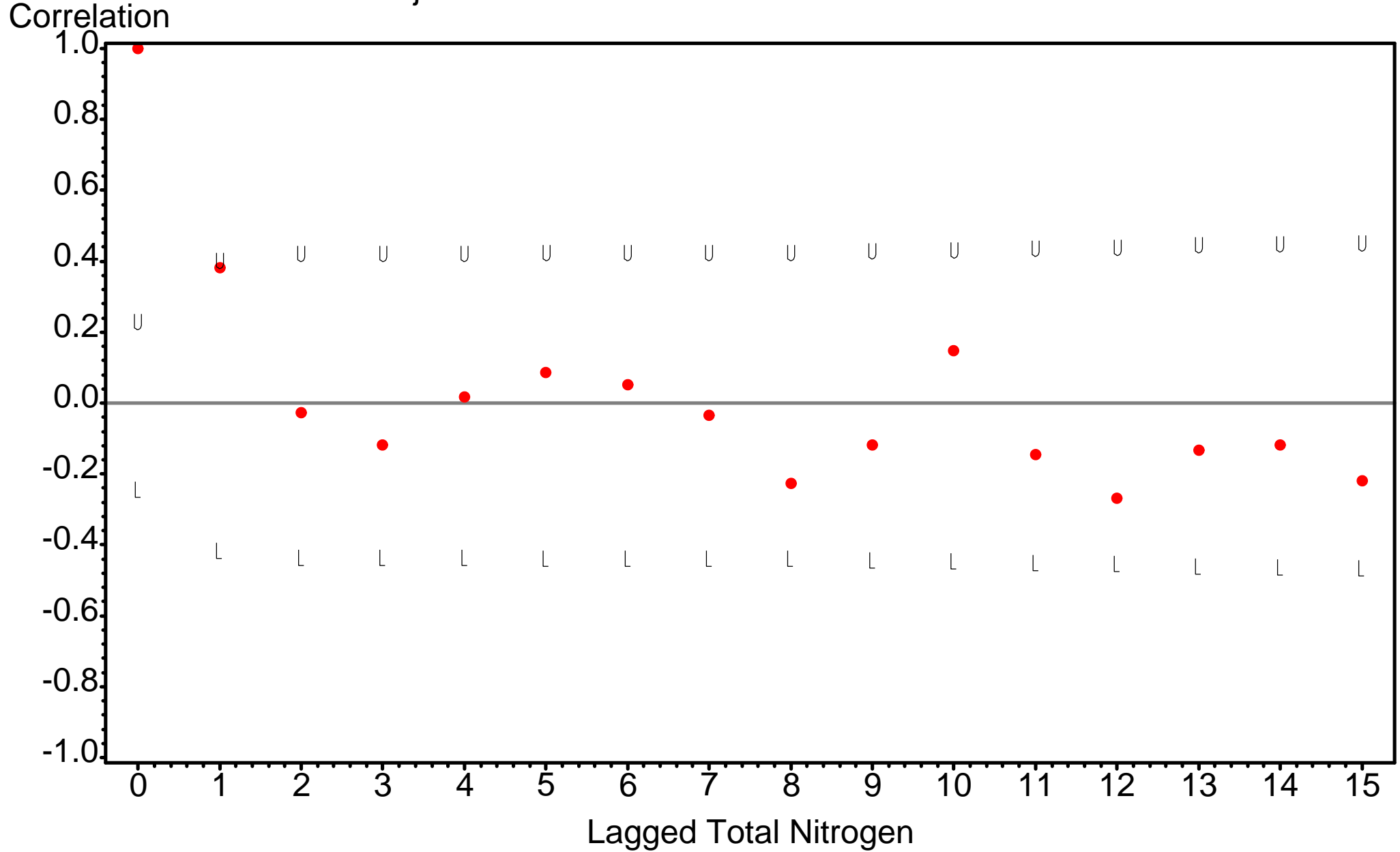
Tidal Peace Trends Appendix - Display 2129
Autocorrelation Statistics for Surface Total Nitrogen in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.382	0.204	0.408	-0.408
2	-0.027	0.214	0.428	-0.428
3	-0.118	0.214	0.428	-0.428
4	0.018	0.215	0.429	-0.429
5	0.085	0.215	0.430	-0.430
6	0.051	0.215	0.430	-0.430
7	-0.035	0.215	0.431	-0.431
8	-0.226	0.215	0.431	-0.431
9	-0.119	0.219	0.437	-0.437
10	0.148	0.220	0.439	-0.439
11	-0.145	0.221	0.442	-0.442
12	-0.269	0.222	0.445	-0.445
13	-0.133	0.227	0.454	-0.454
14	-0.119	0.228	0.456	-0.456
15	-0.220	0.229	0.458	-0.458

Tidal Peace Trends Appendix - Display 2130

Correlogram for Surface Total Nitrogen in Tidal Peace

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

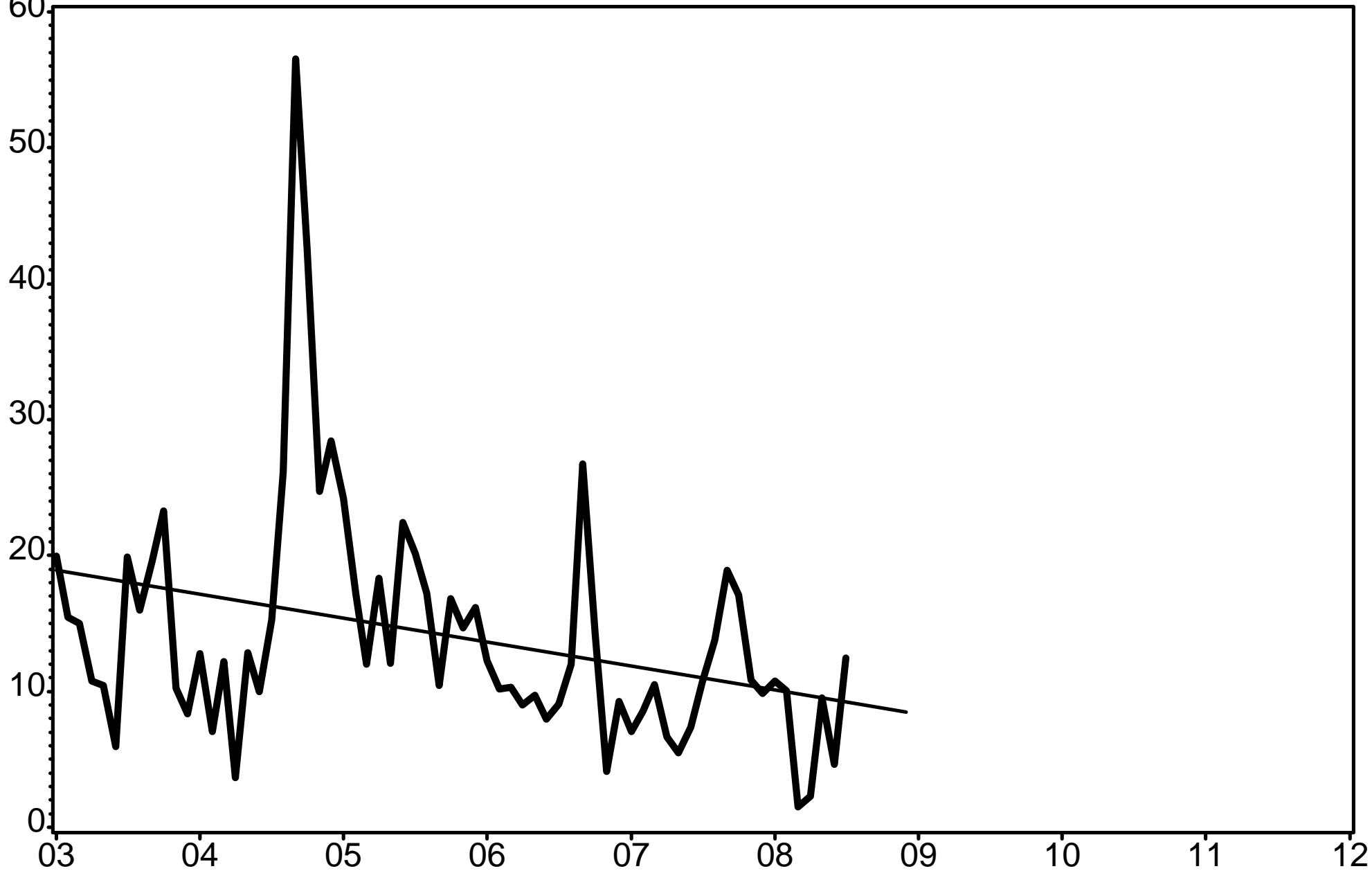
Tidal Peace Trends Appendix - Display 2131

Monthly Data Time Series

for Surface Total Organic Carbon in Tidal Peace

Not Adjusted for Seasonal Medians

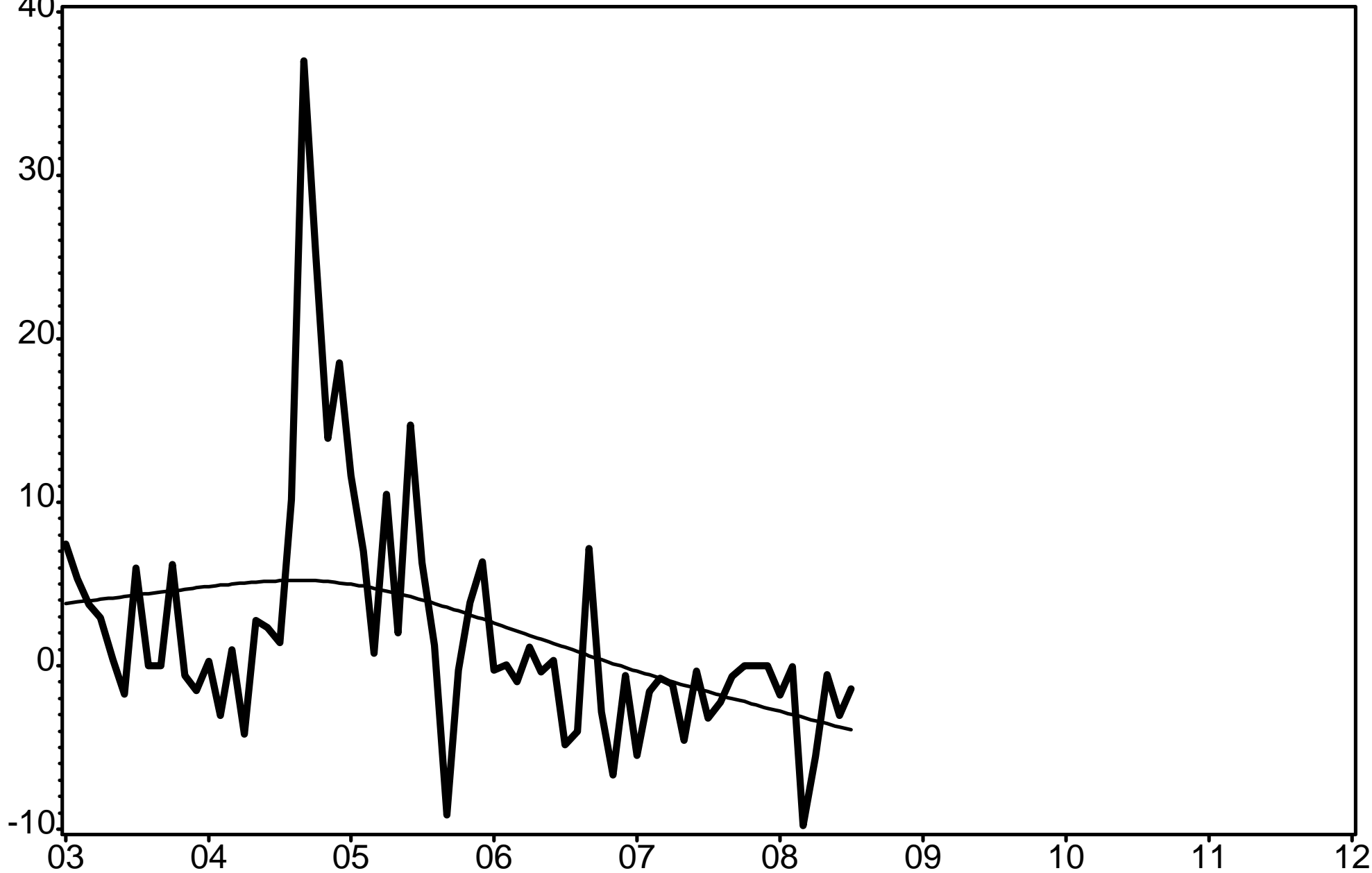
TOC_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2132

Monthly Data Time Series
for Surface Total Organic Carbon in Tidal Peace
Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

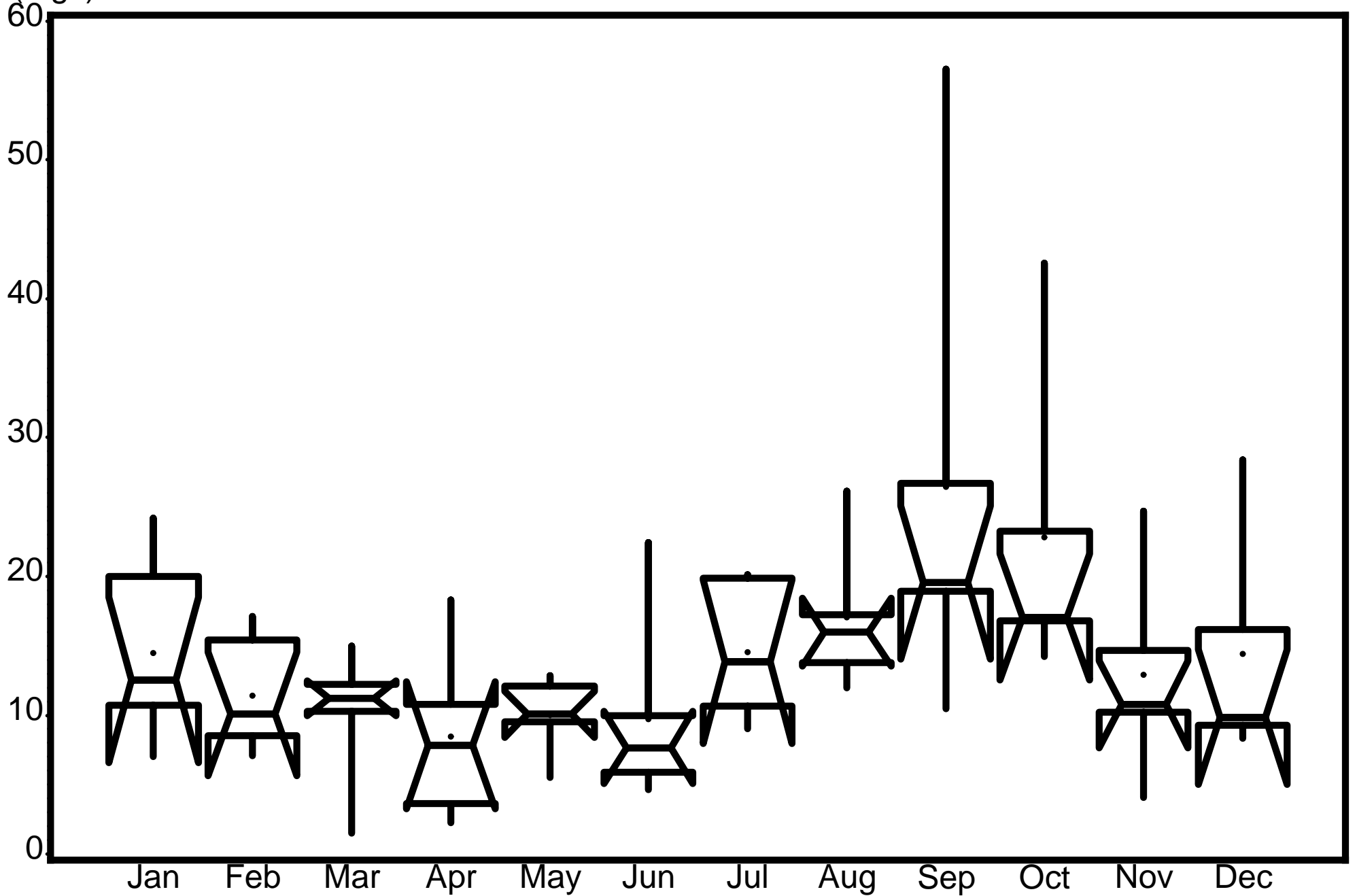


Tidal Peace Trends Appendix - Display 2133

Seasonal Univariate Statistics

for Surface Total Organic Carbon in Tidal Peace

TOC_mgl
(mg/l)



Tidal Peace Trends Appendix - Display 2134

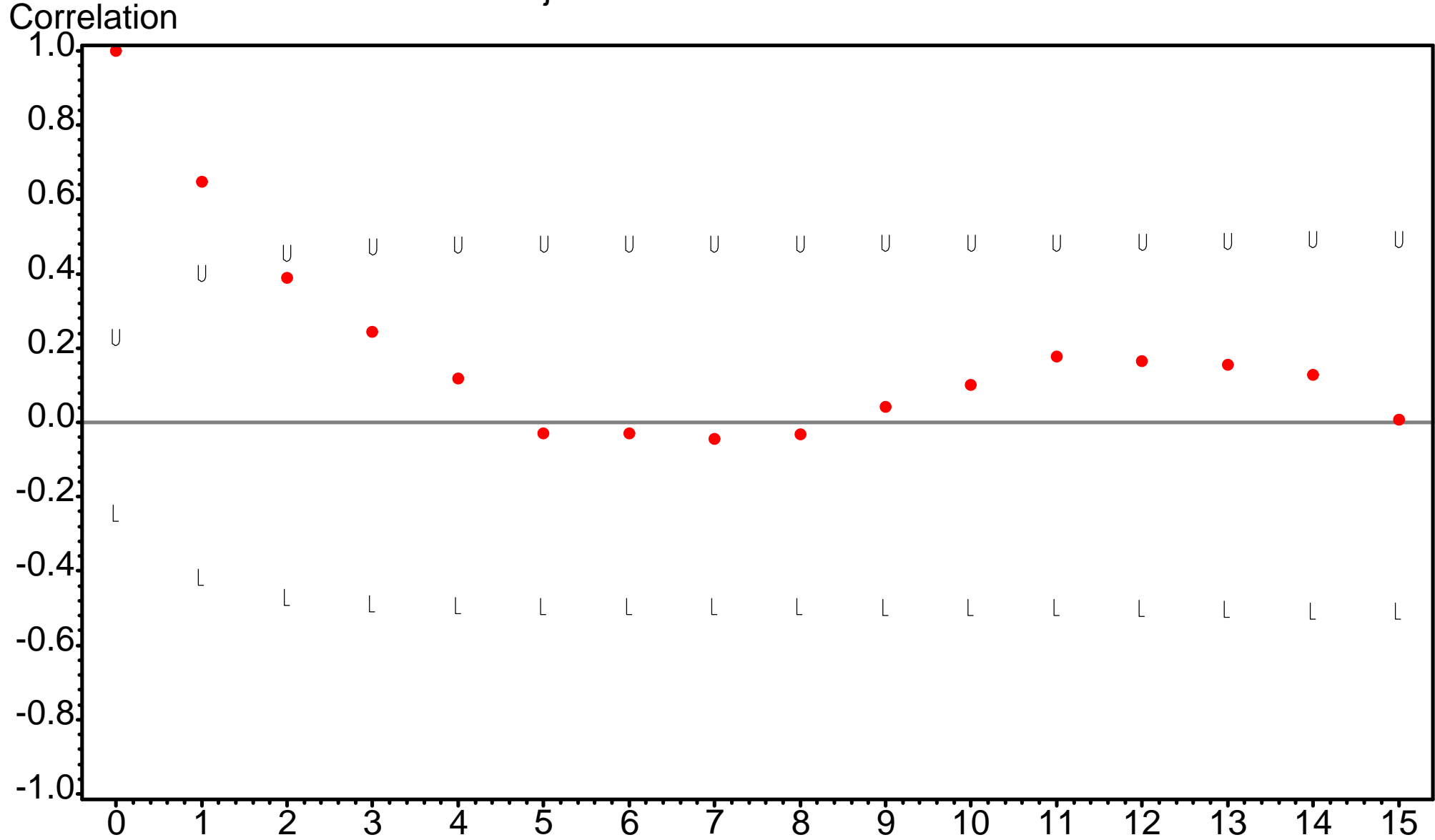
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Peace

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.647	0.204	0.408	-0.408
2	0.390	0.231	0.462	-0.462
3	0.243	0.240	0.480	-0.480
4	0.119	0.243	0.486	-0.486
5	-0.030	0.244	0.488	-0.488
6	-0.029	0.244	0.488	-0.488
7	-0.045	0.244	0.488	-0.488
8	-0.031	0.244	0.488	-0.488
9	0.043	0.244	0.489	-0.489
10	0.101	0.244	0.489	-0.489
11	0.177	0.245	0.490	-0.490
12	0.164	0.247	0.493	-0.493
13	0.156	0.248	0.496	-0.496
14	0.128	0.250	0.499	-0.499
15	0.008	0.251	0.501	-0.501

Tidal Peace Trends Appendix - Display 2135

Correlogram for Surface Total Organic Carbon in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2136
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Peace
Unadjusted for Seasonal Medians

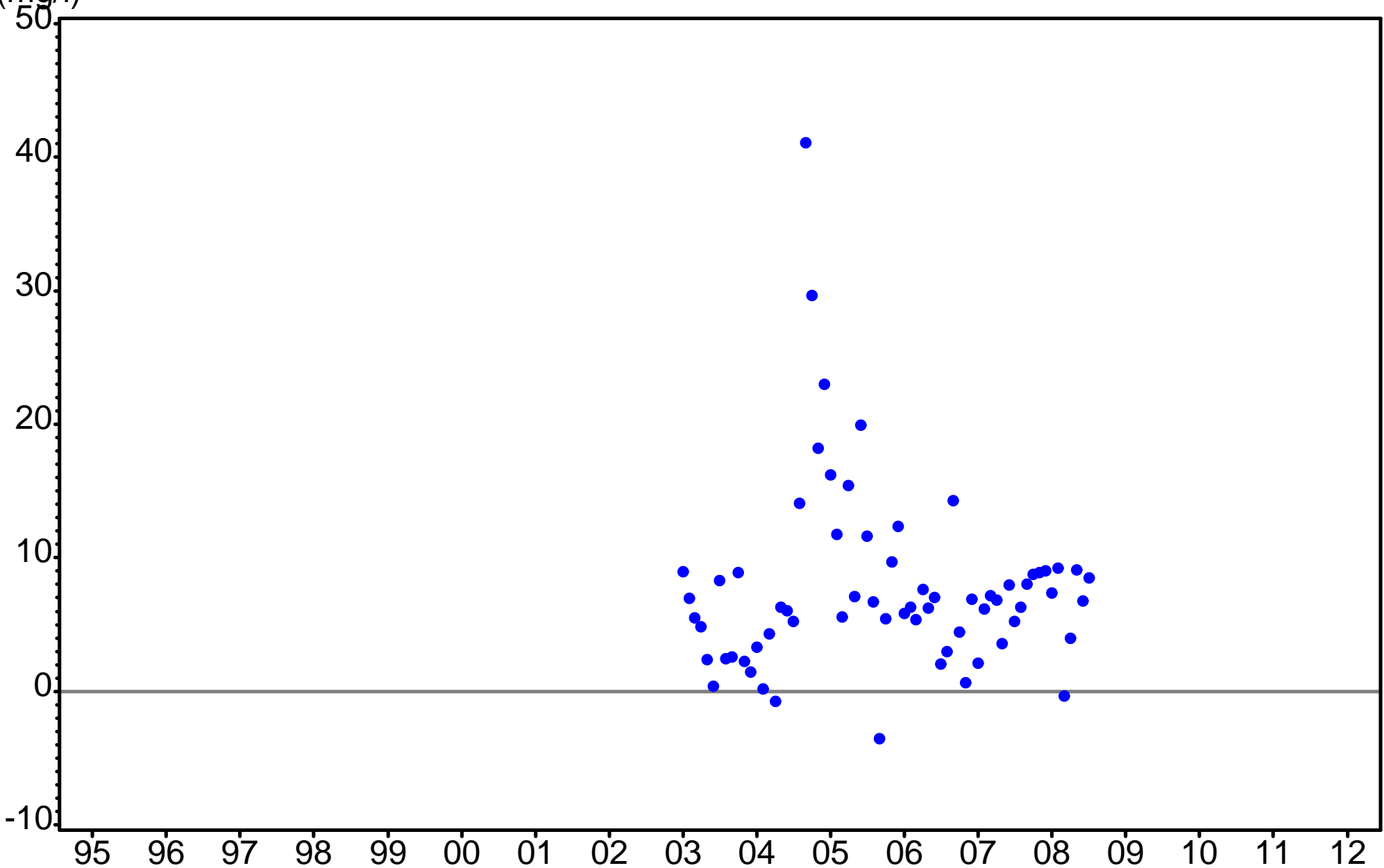
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.282	.001	.001	-1.567

Tidal Peace Trends Appendix - Display 2137
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.40645	.000220805	0.072010	-1.52667

Tidal Peace Trends Appendix - Display 2138

Time Series Plot of Surface Total Organic Carbon Data Adjusted for Season and Detrended
Adjusted
(mg/l)
Tidal Peace



Zero Reference Line Shown

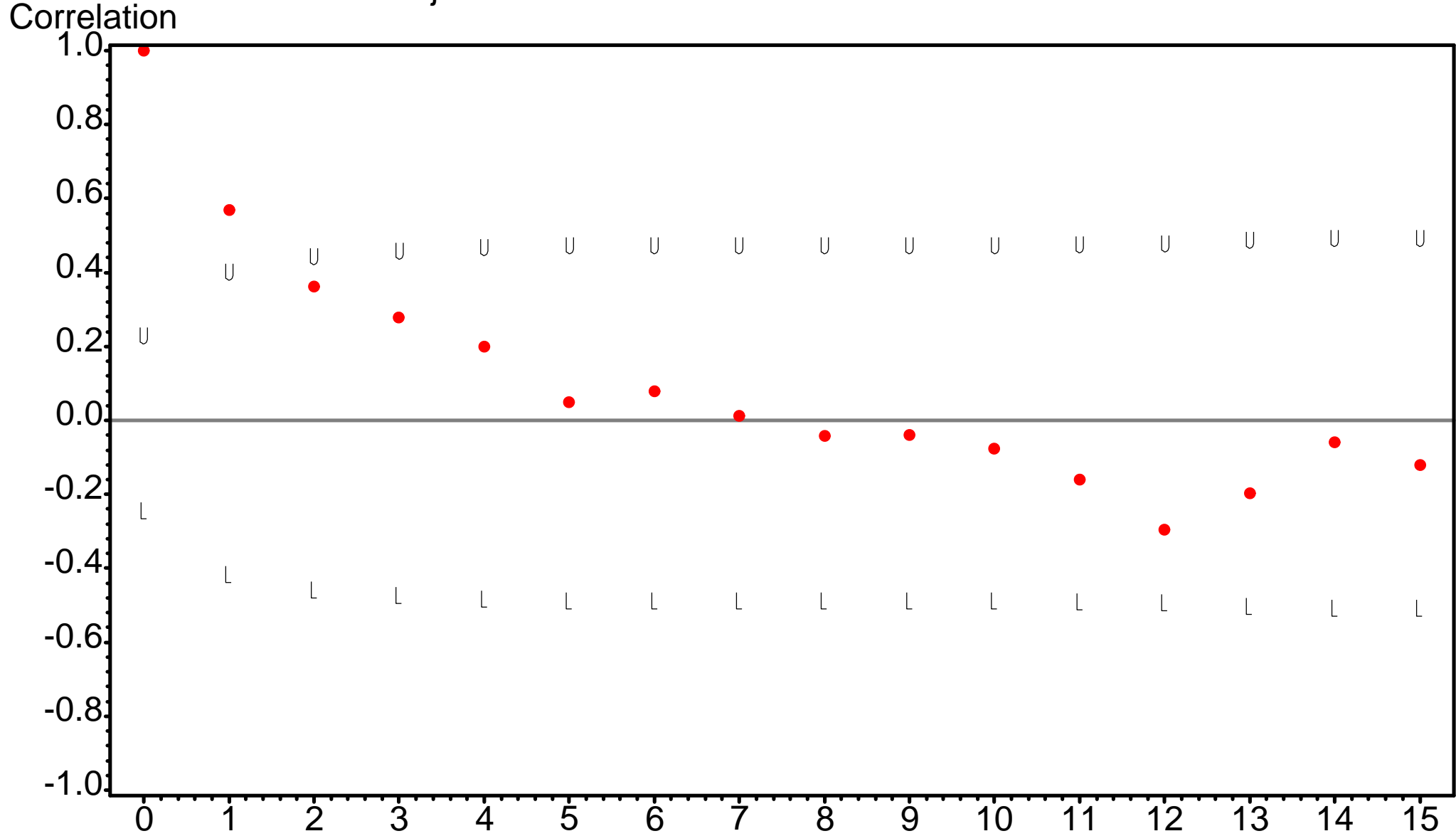
Tidal Peace Trends Appendix - Display 2139
Autocorrelation Statistics for Surface Total Organic Carbon in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.570	0.204	0.408	-0.408
2	0.362	0.225	0.450	-0.450
3	0.279	0.233	0.466	-0.466
4	0.200	0.238	0.475	-0.475
5	0.049	0.240	0.480	-0.480
6	0.079	0.240	0.480	-0.480
7	0.012	0.241	0.481	-0.481
8	-0.041	0.241	0.481	-0.481
9	-0.040	0.241	0.481	-0.481
10	-0.077	0.241	0.481	-0.481
11	-0.161	0.241	0.482	-0.482
12	-0.295	0.243	0.485	-0.485
13	-0.198	0.247	0.495	-0.495
14	-0.060	0.250	0.499	-0.499
15	-0.120	0.250	0.500	-0.500

Tidal Peace Trends Appendix - Display 2140

Correlogram for Surface Total Organic Carbon in Tidal Peace

Adjusted for Seasonal Median and Detrended

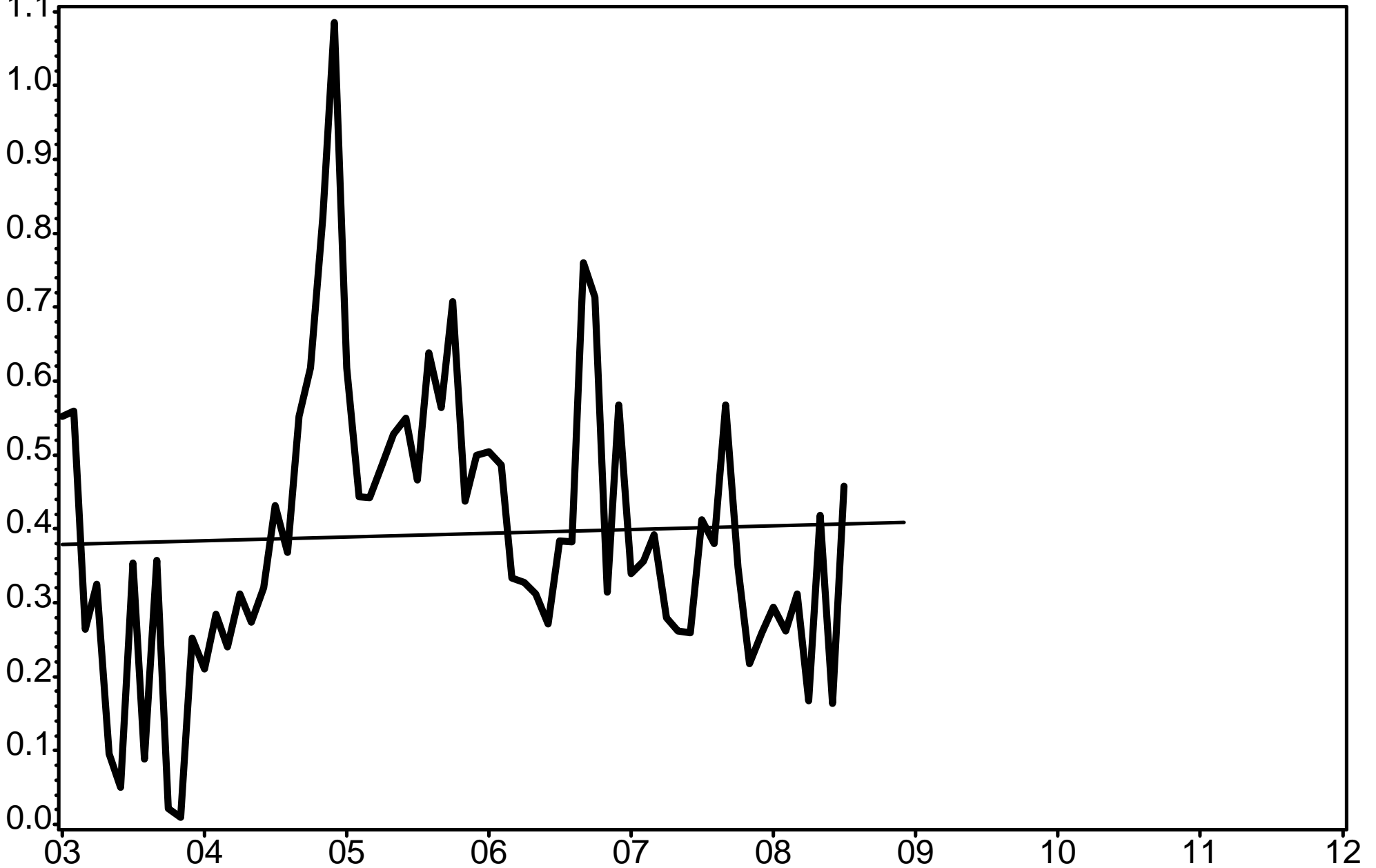


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2141

Monthly Data Time Series
for Surface Total Phosphorous in Tidal Peace
Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



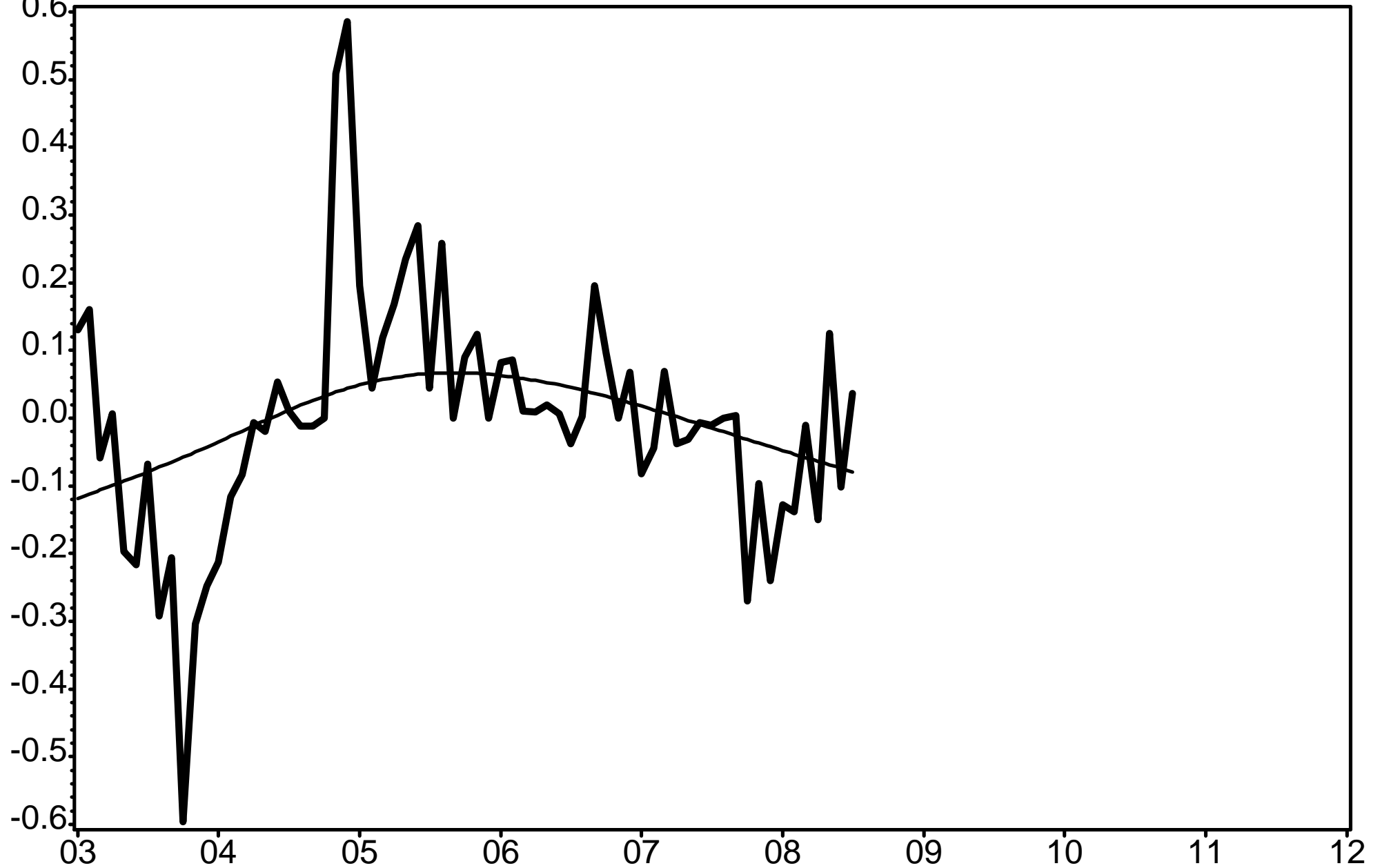
Tidal Peace Trends Appendix - Display 2142

Monthly Data Time Series

for Surface Total Phosphorous in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

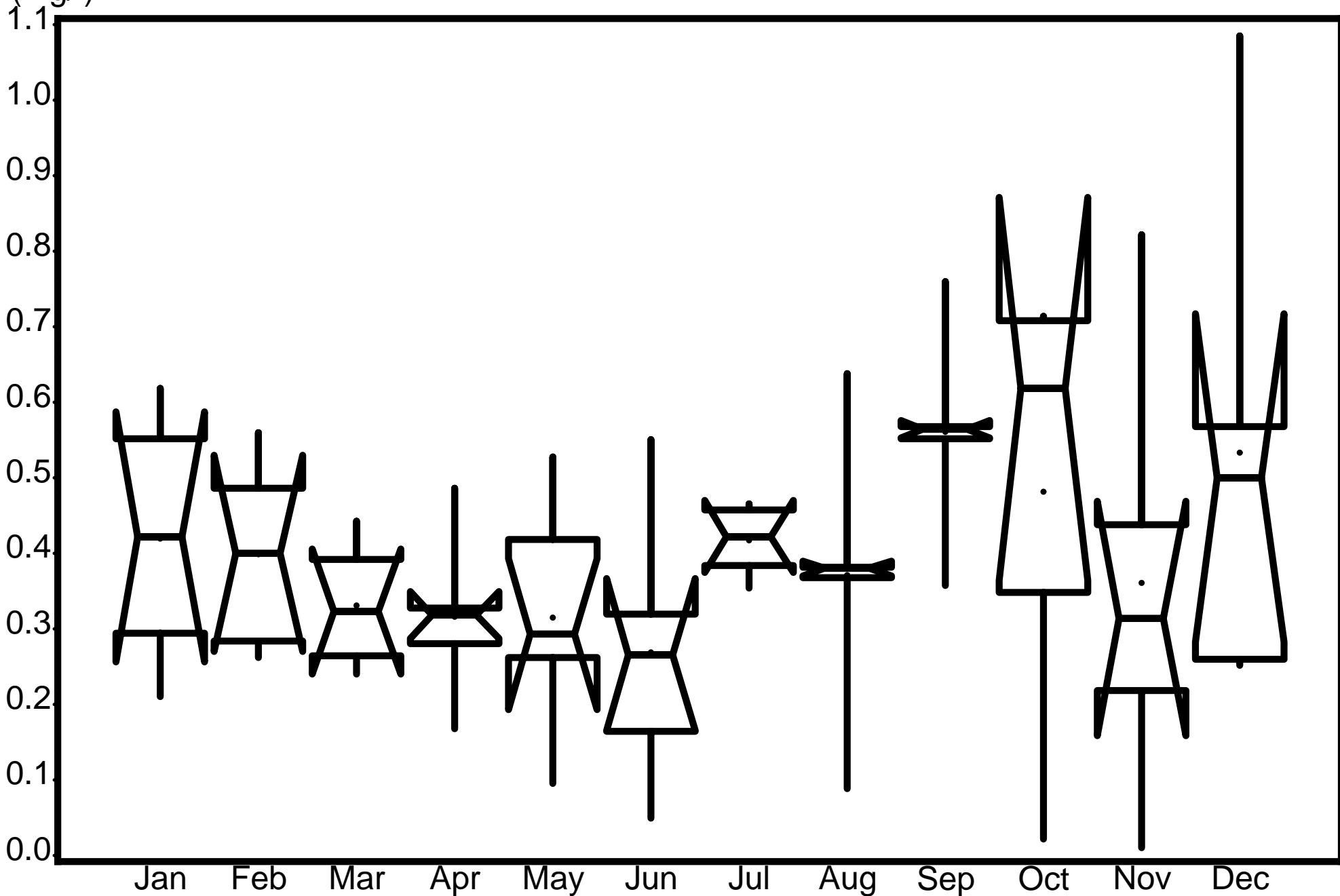


Tidal Peace Trends Appendix - Display 2143

Seasonal Univariate Statistics

for Surface Total Phosphorous in Tidal Peace

TP_mgl
(mg/l)



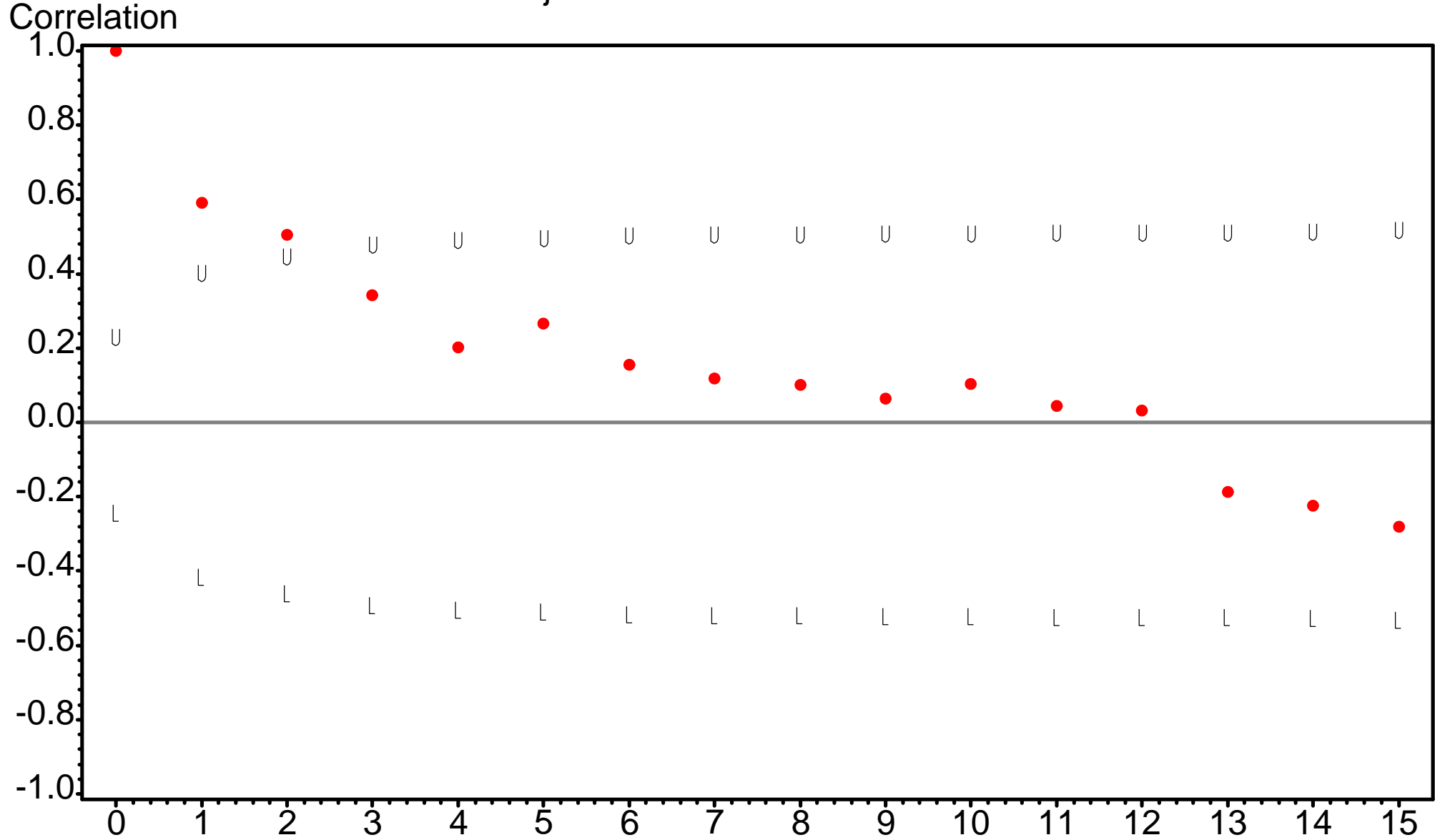
Tidal Peace Trends Appendix - Display 2144
Autocorrelation Statistics for Surface Total Phosphorous in Tidal Peace

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.592	0.204	0.408	-0.408
2	0.505	0.227	0.454	-0.454
3	0.342	0.242	0.484	-0.484
4	0.202	0.249	0.497	-0.497
5	0.265	0.251	0.502	-0.502
6	0.154	0.255	0.509	-0.509
7	0.119	0.256	0.512	-0.512
8	0.101	0.257	0.513	-0.513
9	0.063	0.257	0.515	-0.515
10	0.103	0.257	0.515	-0.515
11	0.044	0.258	0.516	-0.516
12	0.031	0.258	0.516	-0.516
13	-0.188	0.258	0.516	-0.516
14	-0.223	0.260	0.520	-0.520
15	-0.280	0.263	0.525	-0.525

Tidal Peace Trends Appendix - Display 2145

Correlogram for Surface Total Phosphorous in Tidal Peace

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2146
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0	1	1	0

Tidal Peace Trends Appendix - Display 2147
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Tidal Peace
Adjusted for Seasonal Medians

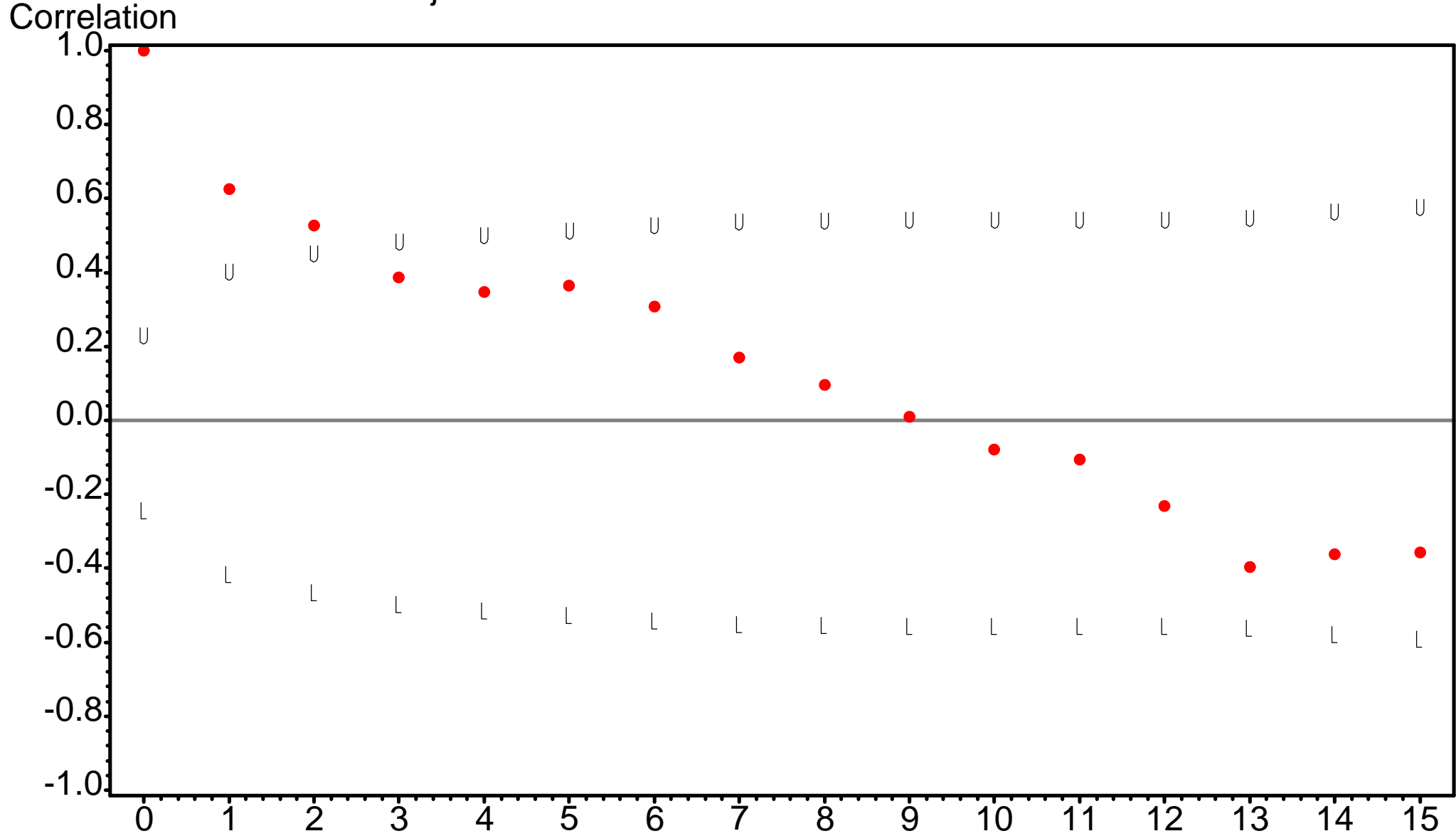
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.032258	0.81162	0.90760	.002

Tidal Peace Trends Appendix - Display 2149
Autocorrelation Statistics for Surface Total Phosphorous in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.625	0.204	0.408	-0.408
2	0.527	0.229	0.458	-0.458
3	0.387	0.245	0.491	-0.491
4	0.347	0.254	0.507	-0.507
5	0.364	0.260	0.520	-0.520
6	0.308	0.267	0.534	-0.534
7	0.170	0.272	0.544	-0.544
8	0.095	0.274	0.547	-0.547
9	0.010	0.274	0.548	-0.548
10	-0.078	0.274	0.548	-0.548
11	-0.107	0.274	0.549	-0.549
12	-0.232	0.275	0.550	-0.550
13	-0.396	0.278	0.555	-0.555
14	-0.362	0.285	0.571	-0.571
15	-0.356	0.292	0.583	-0.583

Tidal Peace Trends Appendix - Display 2150

Correlogram for Surface Total Phosphorous in Tidal Peace Adjusted for Seasonal Median and Detrended



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

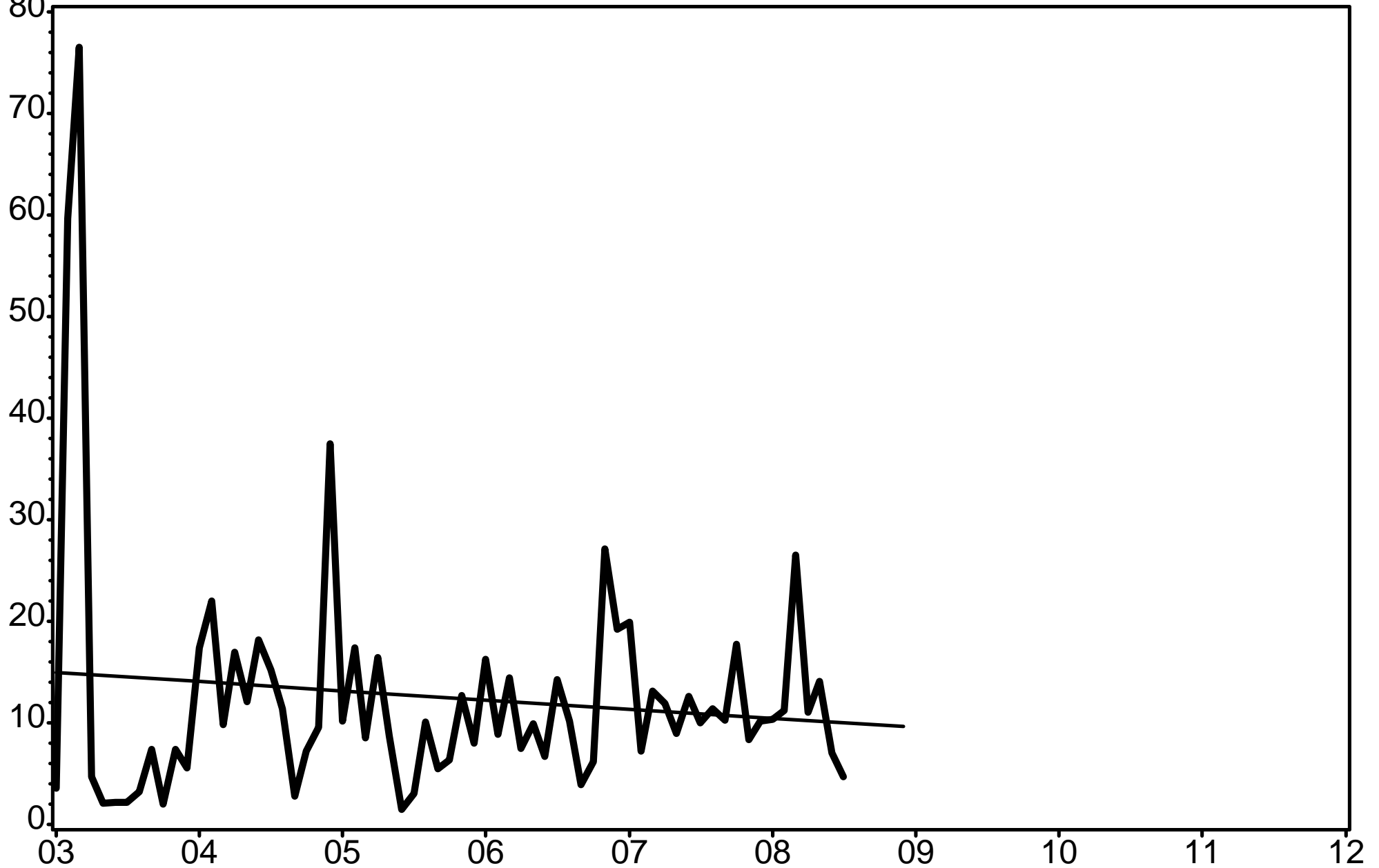
Tidal Peace Trends Appendix - Display 2151

Monthly Data Time Series

for Surface Total Suspended Solids in Tidal Peace

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



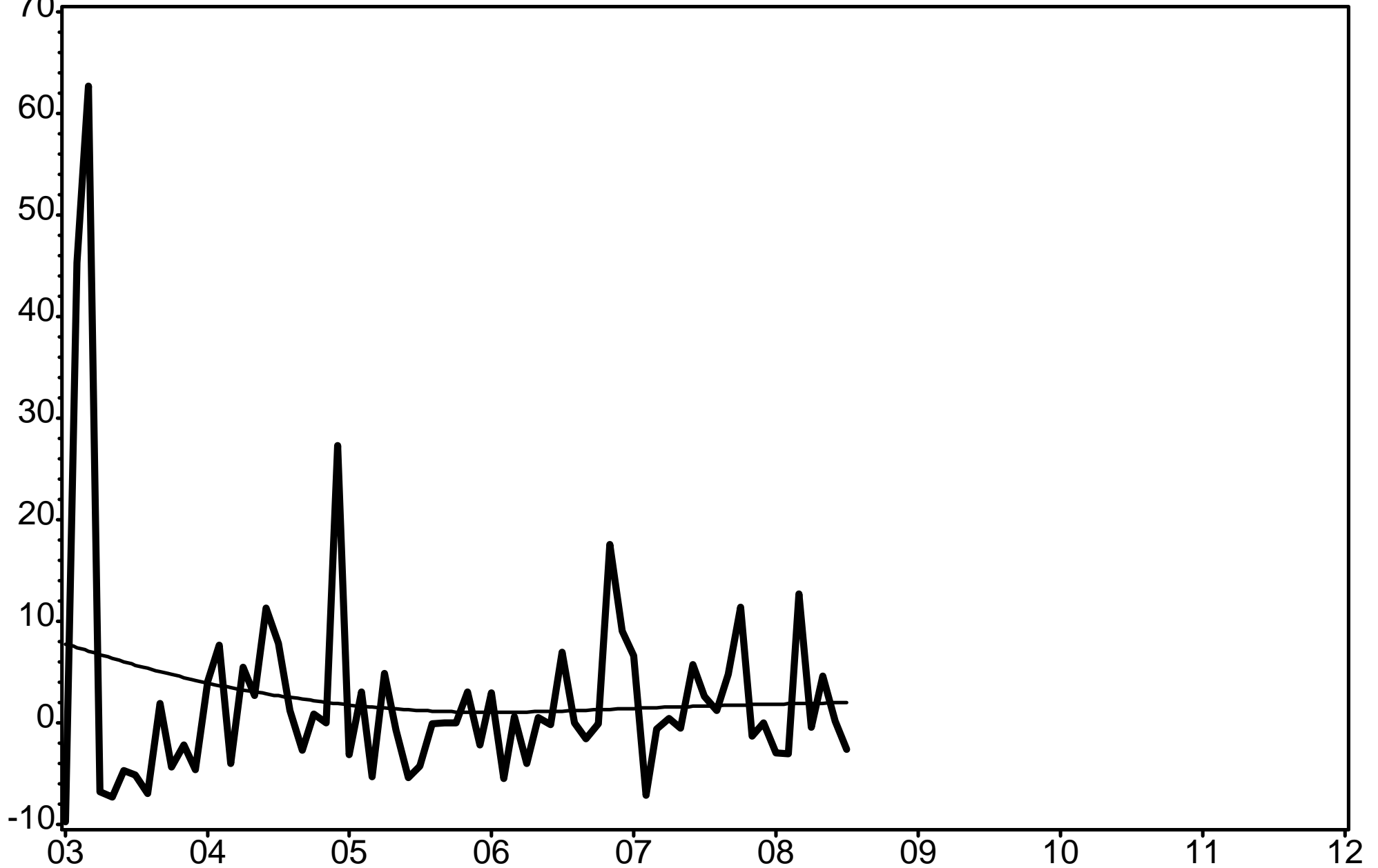
Tidal Peace Trends Appendix - Display 2152

Monthly Data Time Series

for Surface Total Suspended Solids in Tidal Peace

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

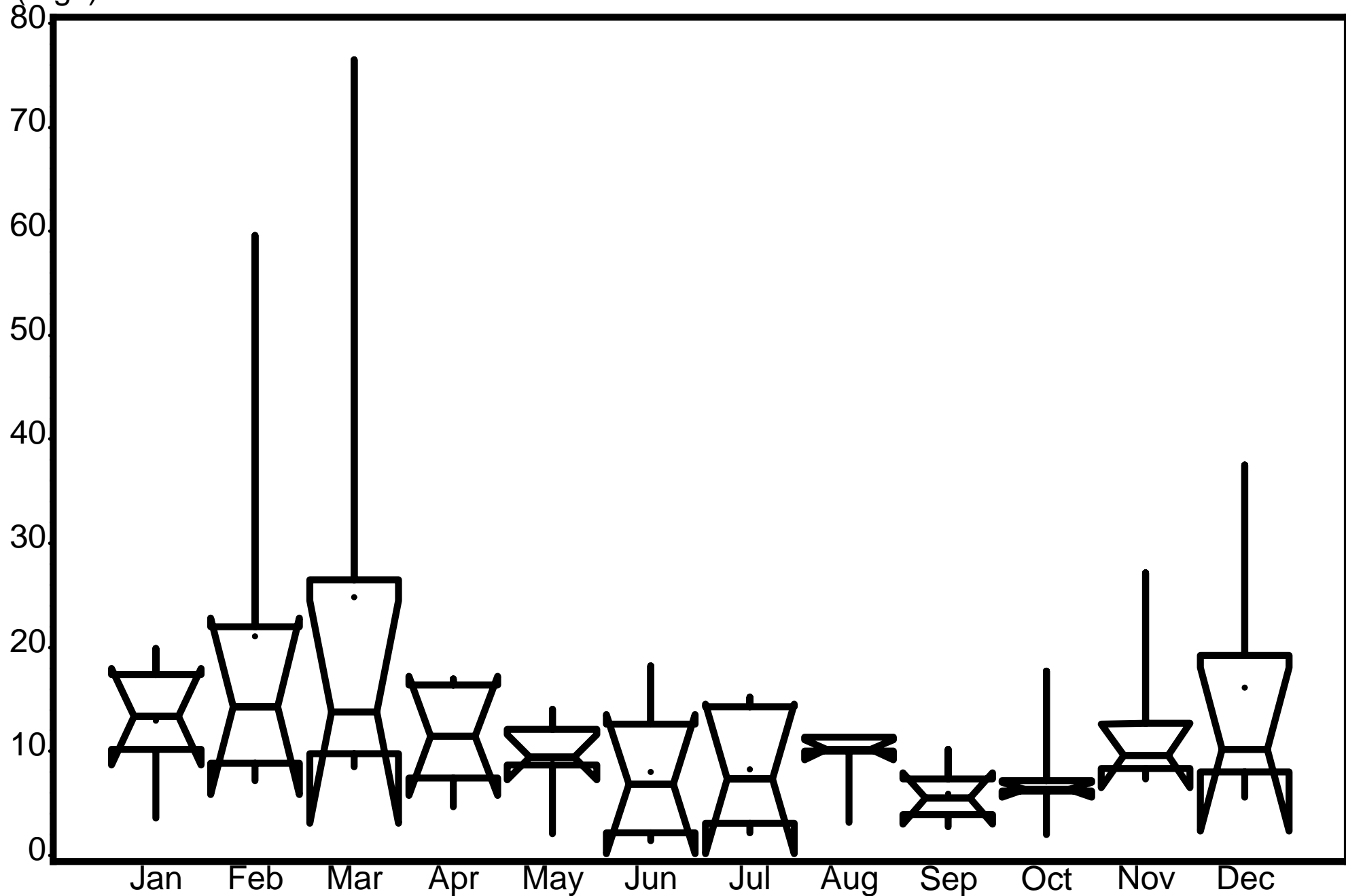


Tidal Peace Trends Appendix - Display 2153

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Tidal Peace

TSS_mgl
(mg/l)



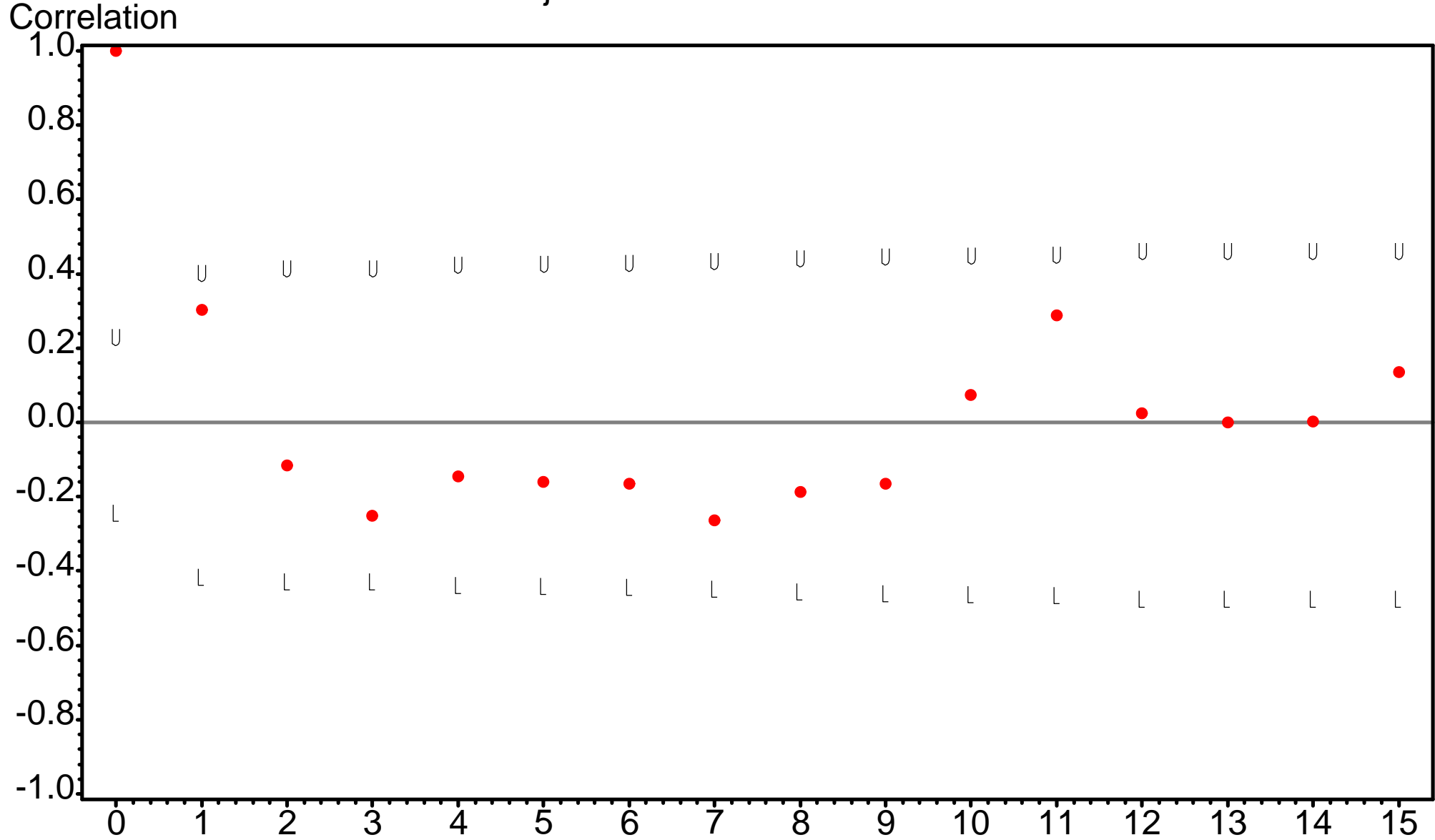
Tidal Peace Trends Appendix - Display 2154
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Peace

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.303	0.204	0.408	-0.408
2	-0.116	0.210	0.421	-0.421
3	-0.252	0.211	0.422	-0.422
4	-0.145	0.215	0.431	-0.431
5	-0.159	0.217	0.433	-0.433
6	-0.165	0.218	0.437	-0.437
7	-0.263	0.220	0.440	-0.440
8	-0.188	0.224	0.449	-0.449
9	-0.165	0.226	0.453	-0.453
10	0.074	0.228	0.456	-0.456
11	0.289	0.228	0.457	-0.457
12	0.024	0.233	0.467	-0.467
13	-0.001	0.234	0.467	-0.467
14	0.003	0.234	0.467	-0.467
15	0.136	0.234	0.467	-0.467

Tidal Peace Trends Appendix - Display 2155

Correlogram for Surface Total Suspended Solids in Tidal Peace

Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2156
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Peace
Unadjusted for Seasonal Medians

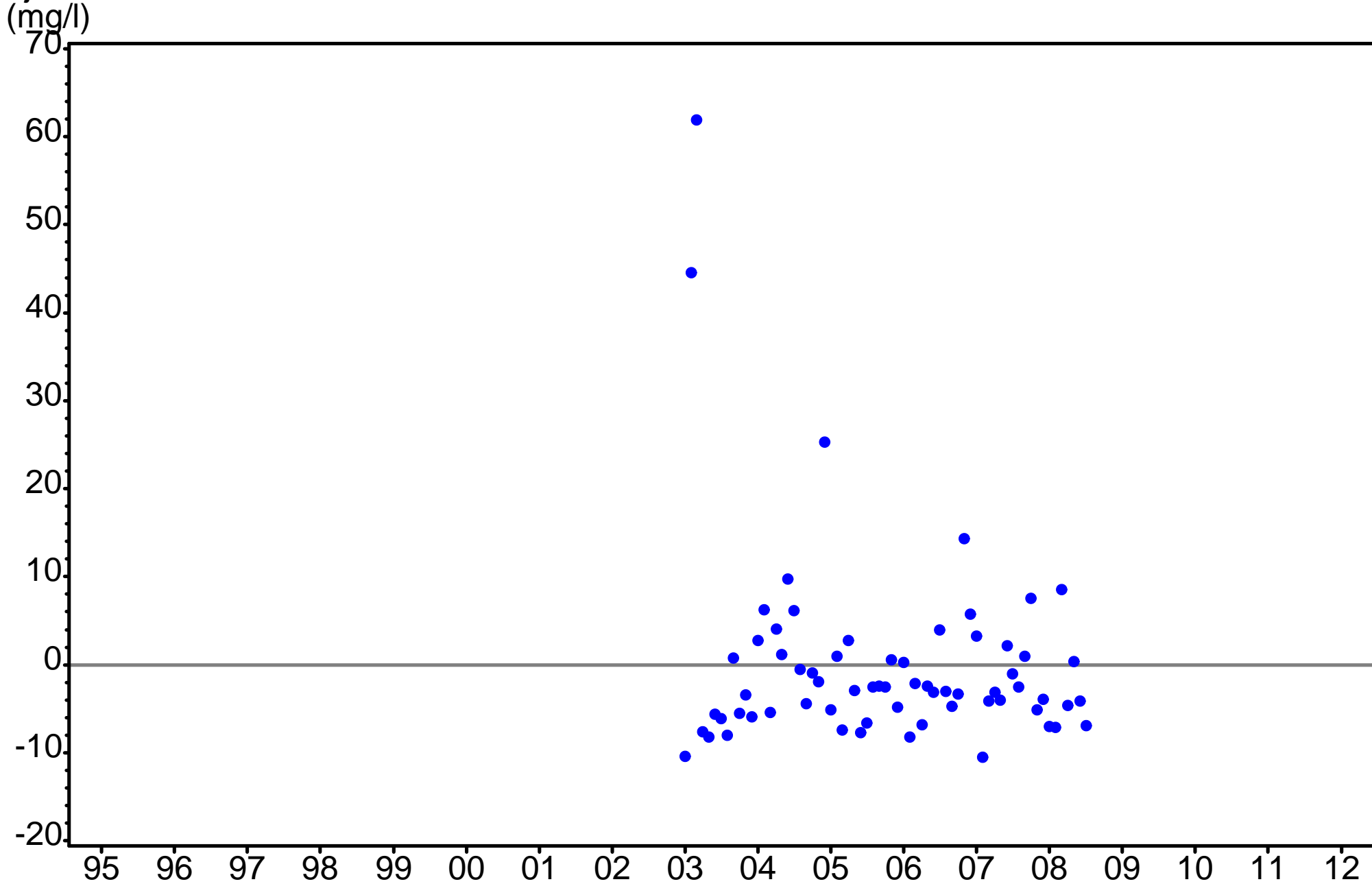
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.125	0.137	0.137	0.681

Tidal Peace Trends Appendix - Display 2157
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.14194	0.21002	0.43951	0.67

Tidal Peace Trends Appendix - Display 2158

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted Tidal Peace



Zero Reference Line Shown

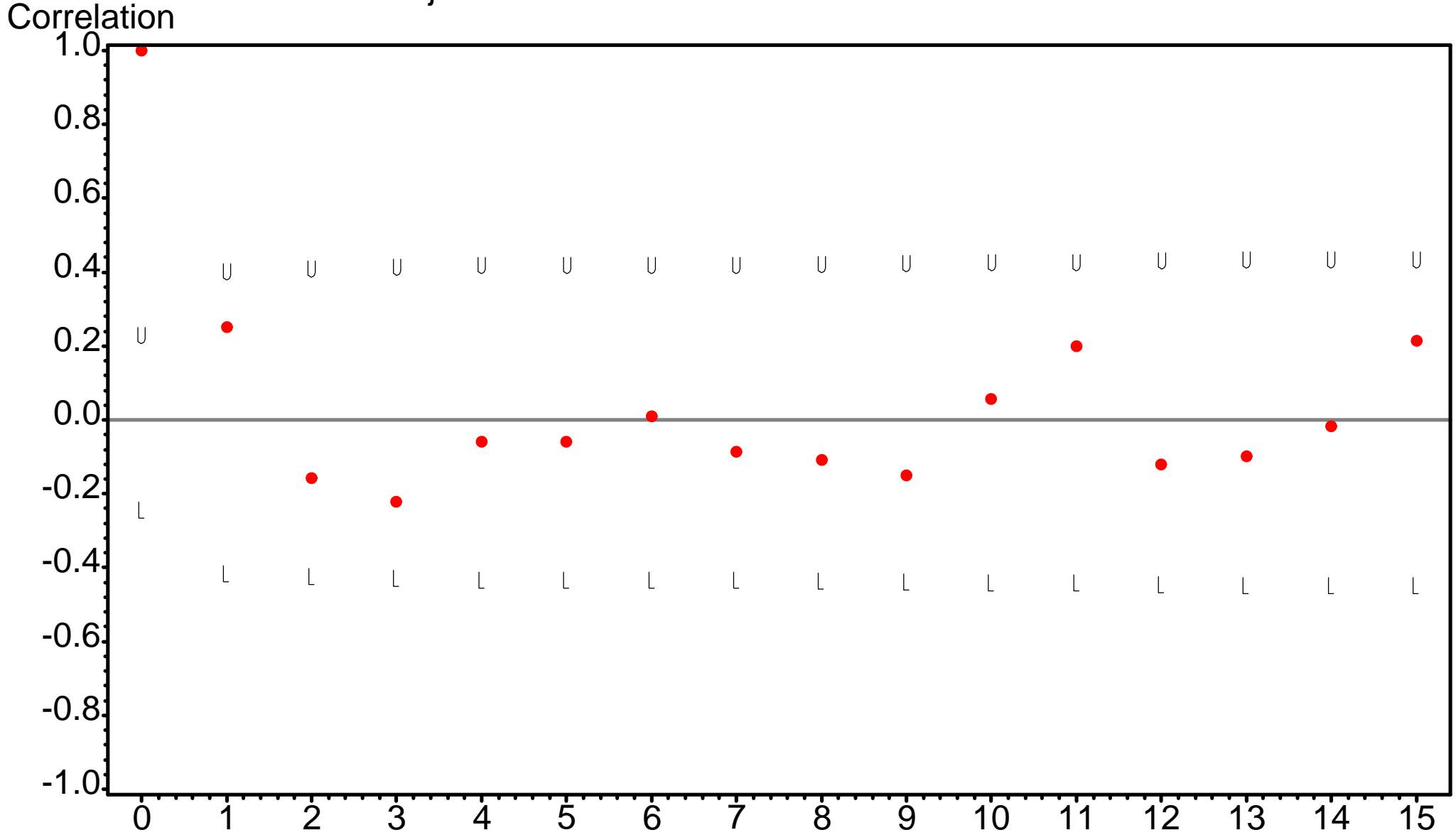
Tidal Peace Trends Appendix - Display 2159
Autocorrelation Statistics for Surface Total Suspended Solids in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.250	0.204	0.408	-0.408
2	-0.157	0.208	0.417	-0.417
3	-0.222	0.210	0.420	-0.420
4	-0.058	0.213	0.426	-0.426
5	-0.059	0.213	0.427	-0.427
6	0.011	0.214	0.427	-0.427
7	-0.086	0.214	0.427	-0.427
8	-0.108	0.214	0.428	-0.428
9	-0.151	0.215	0.430	-0.430
10	0.056	0.216	0.433	-0.433
11	0.199	0.217	0.433	-0.433
12	-0.121	0.219	0.438	-0.438
13	-0.099	0.220	0.440	-0.440
14	-0.017	0.221	0.441	-0.441
15	0.215	0.221	0.441	-0.441

Tidal Peace Trends Appendix - Display 2160

Correlogram for Surface Total Suspended Solids in Tidal Peace

Adjusted for Seasonal Median and Detrended

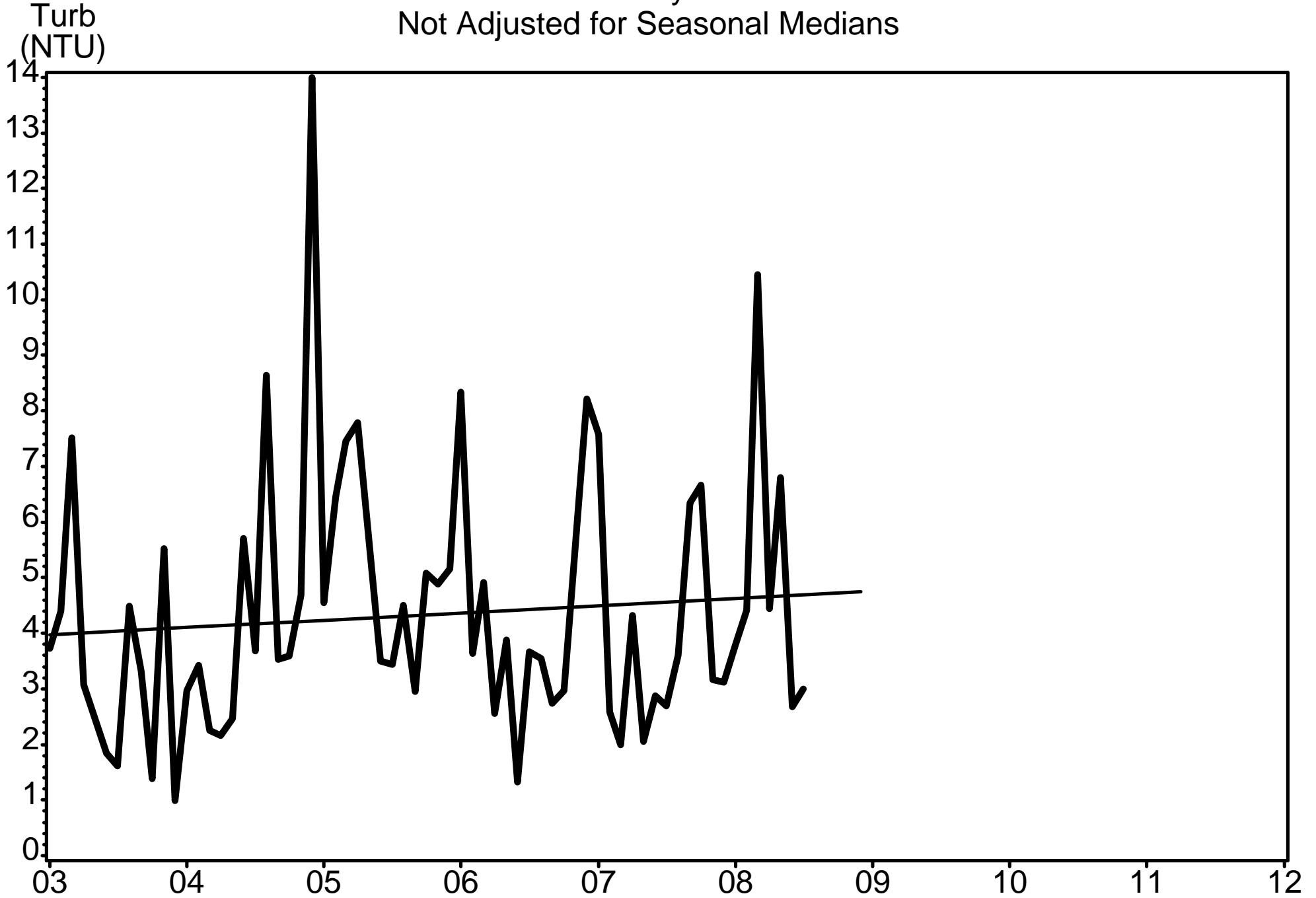


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2161

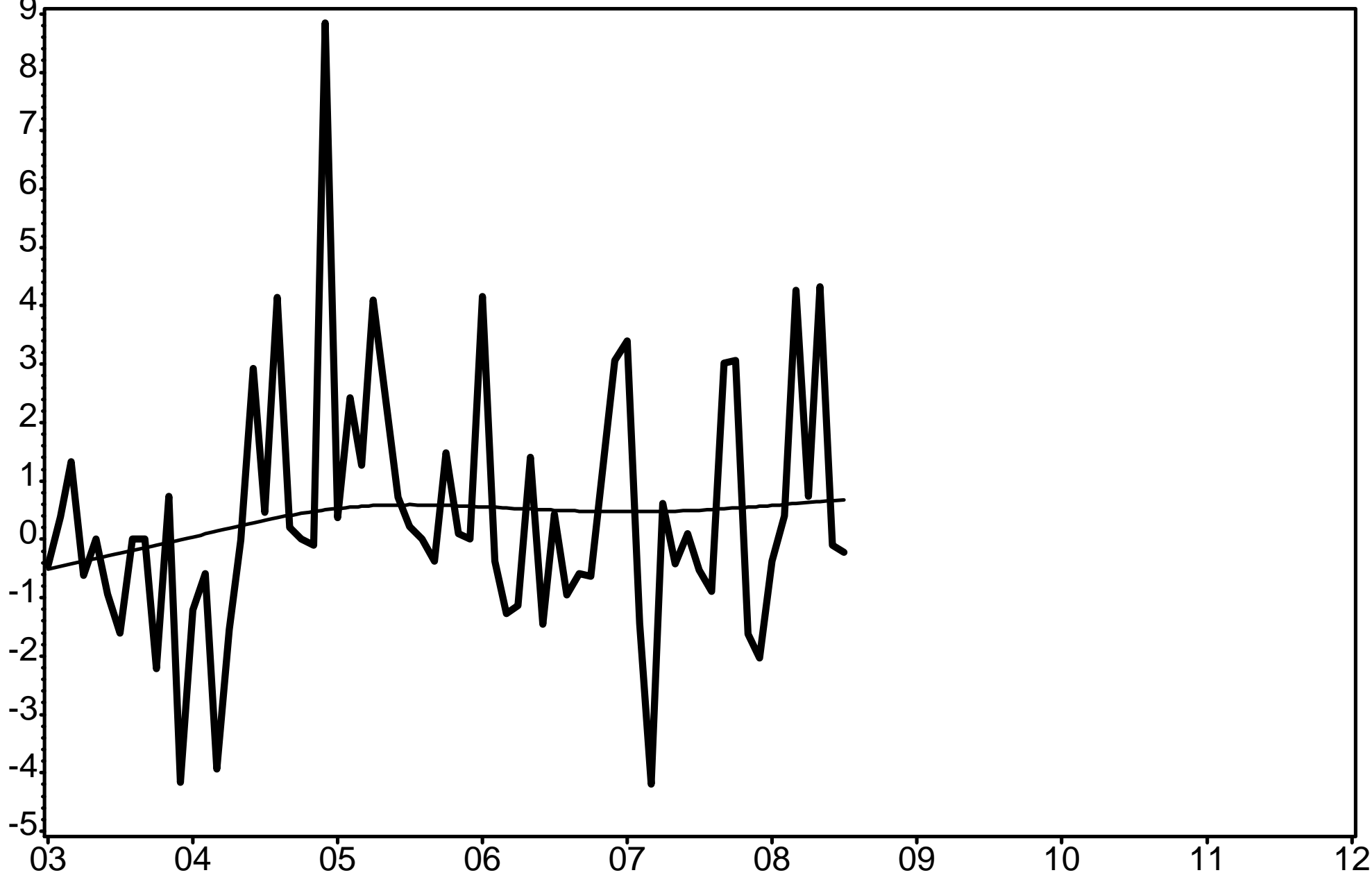
Monthly Data Time Series
for Surface Turbidity in Tidal Peace
Not Adjusted for Seasonal Medians



Tidal Peace Trends Appendix - Display 2162

Monthly Data Time Series
for Surface Turbidity in Tidal Peace
Adjusted for Seasonal Medians

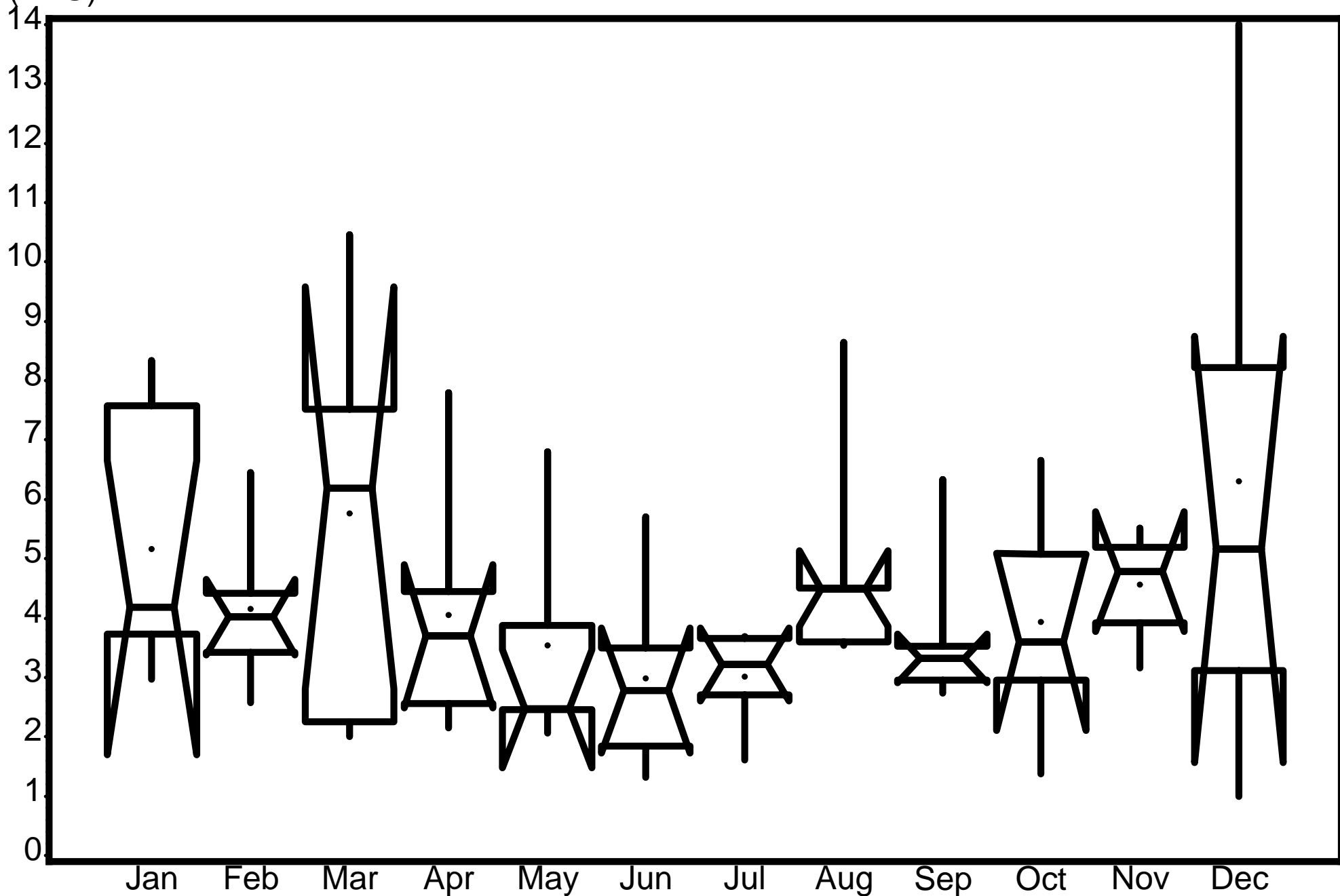
Adjusted
Turb
(NTU)



Tidal Peace Trends Appendix - Display 2163

Seasonal Univariate Statistics for Surface Turbidity in Tidal Peace

Turb
(NTU)



Tidal Peace Trends Appendix - Display 2164

Autocorrelation Statistics for Surface Turbidity in Tidal Peace

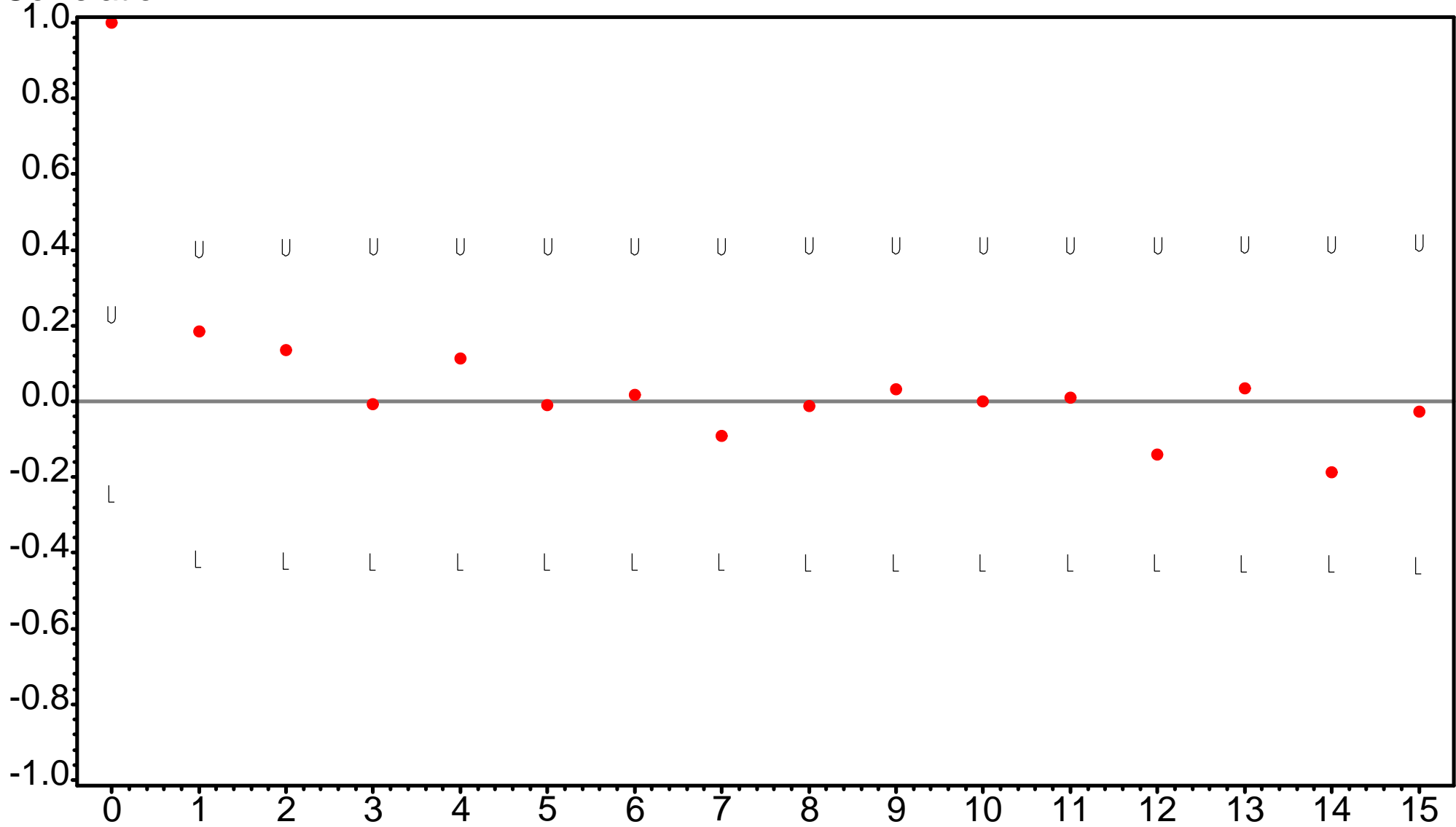
Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.185	0.204	0.408	-0.408
2	0.135	0.206	0.413	-0.413
3	-0.008	0.208	0.415	-0.415
4	0.113	0.208	0.415	-0.415
5	-0.009	0.209	0.417	-0.417
6	0.018	0.209	0.417	-0.417
7	-0.090	0.209	0.417	-0.417
8	-0.012	0.209	0.418	-0.418
9	0.032	0.209	0.418	-0.418
10	-0.001	0.209	0.418	-0.418
11	0.009	0.209	0.418	-0.418
12	-0.141	0.209	0.418	-0.418
13	0.034	0.211	0.421	-0.421
14	-0.186	0.211	0.421	-0.421
15	-0.028	0.213	0.426	-0.426

Tidal Peace Trends Appendix - Display 2165

Correlogram for Surface Turbidity in Tidal Peace

Unadjusted for Seasonal Median

Correlation



Lagged Turbidity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Tidal Peace Trends Appendix - Display 2166
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Peace
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.074	0.386	0.386	0.118

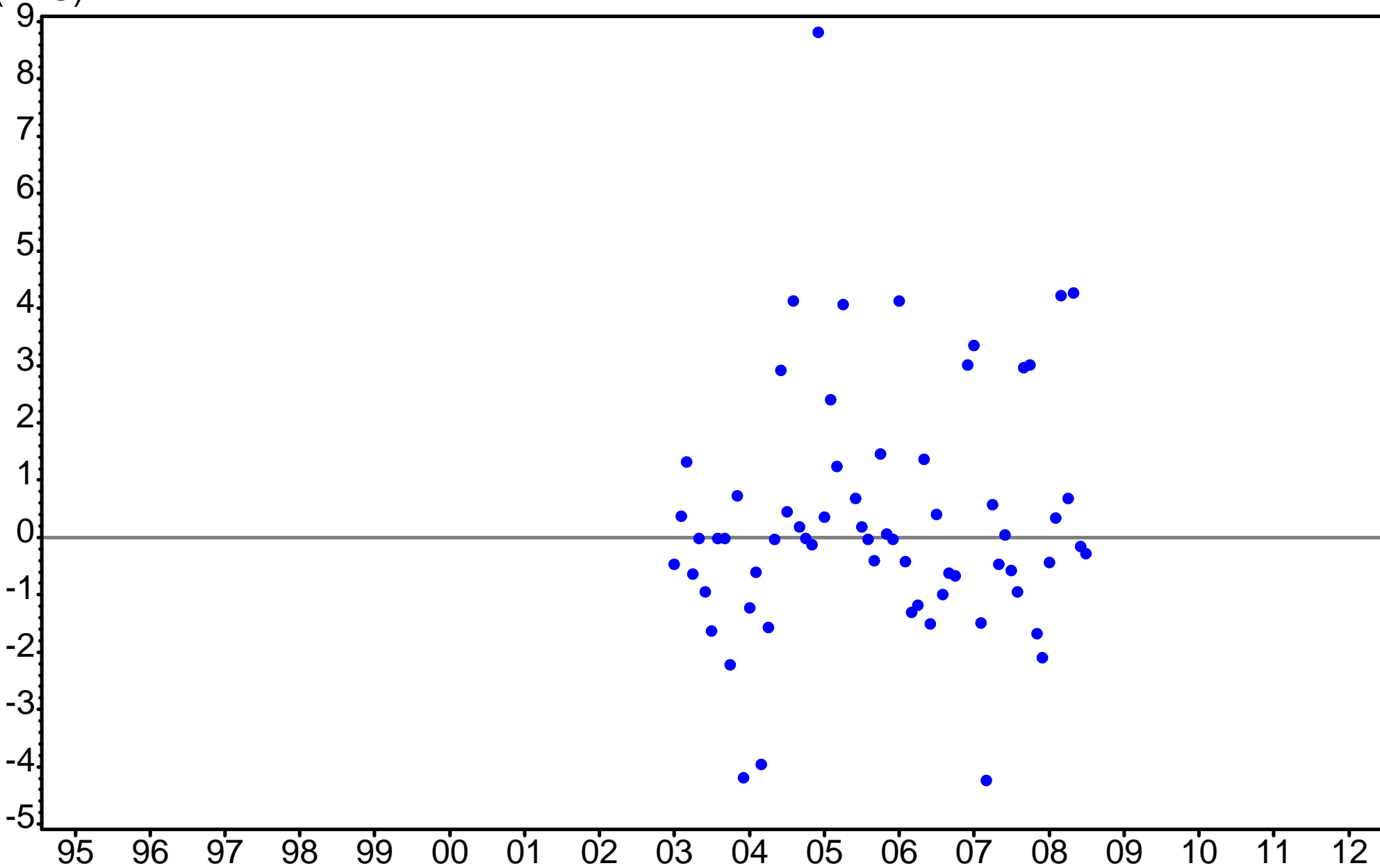
Tidal Peace Trends Appendix - Display 2167
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Tidal Peace
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.027397	0.85296	0.87212	.0092

Tidal Peace Trends Appendix - Display 2168

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Tidal Peace

Adjusted
(NTU)



Zero Reference Line Shown

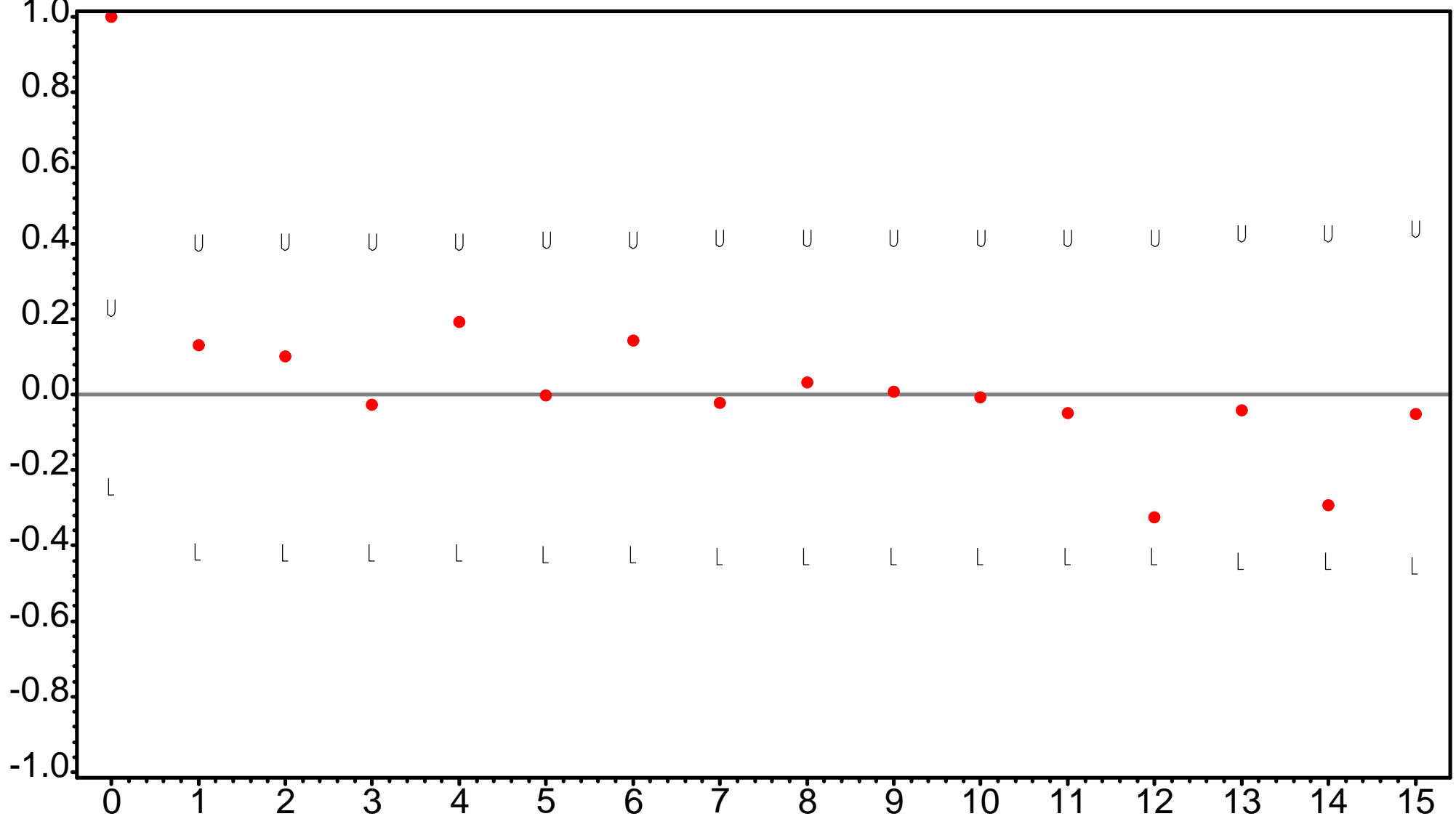
Tidal Peace Trends Appendix - Display 2169
Autocorrelation Statistics for Surface Turbidity in Tidal Peace
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.118	0.236	-0.236
1	0.131	0.204	0.408	-0.408
2	0.100	0.205	0.411	-0.411
3	-0.026	0.206	0.412	-0.412
4	0.192	0.206	0.412	-0.412
5	-0.002	0.208	0.417	-0.417
6	0.142	0.208	0.417	-0.417
7	-0.022	0.210	0.420	-0.420
8	0.033	0.210	0.420	-0.420
9	0.007	0.210	0.420	-0.420
10	-0.007	0.210	0.420	-0.420
11	-0.050	0.210	0.420	-0.420
12	-0.324	0.210	0.420	-0.420
13	-0.042	0.217	0.434	-0.434
14	-0.293	0.217	0.434	-0.434
15	-0.051	0.222	0.445	-0.445

Tidal Peace Trends Appendix - Display 2170

Correlogram for Surface Turbidity in Tidal Peace
Adjusted for Seasonal Median and Detrended

Correlation

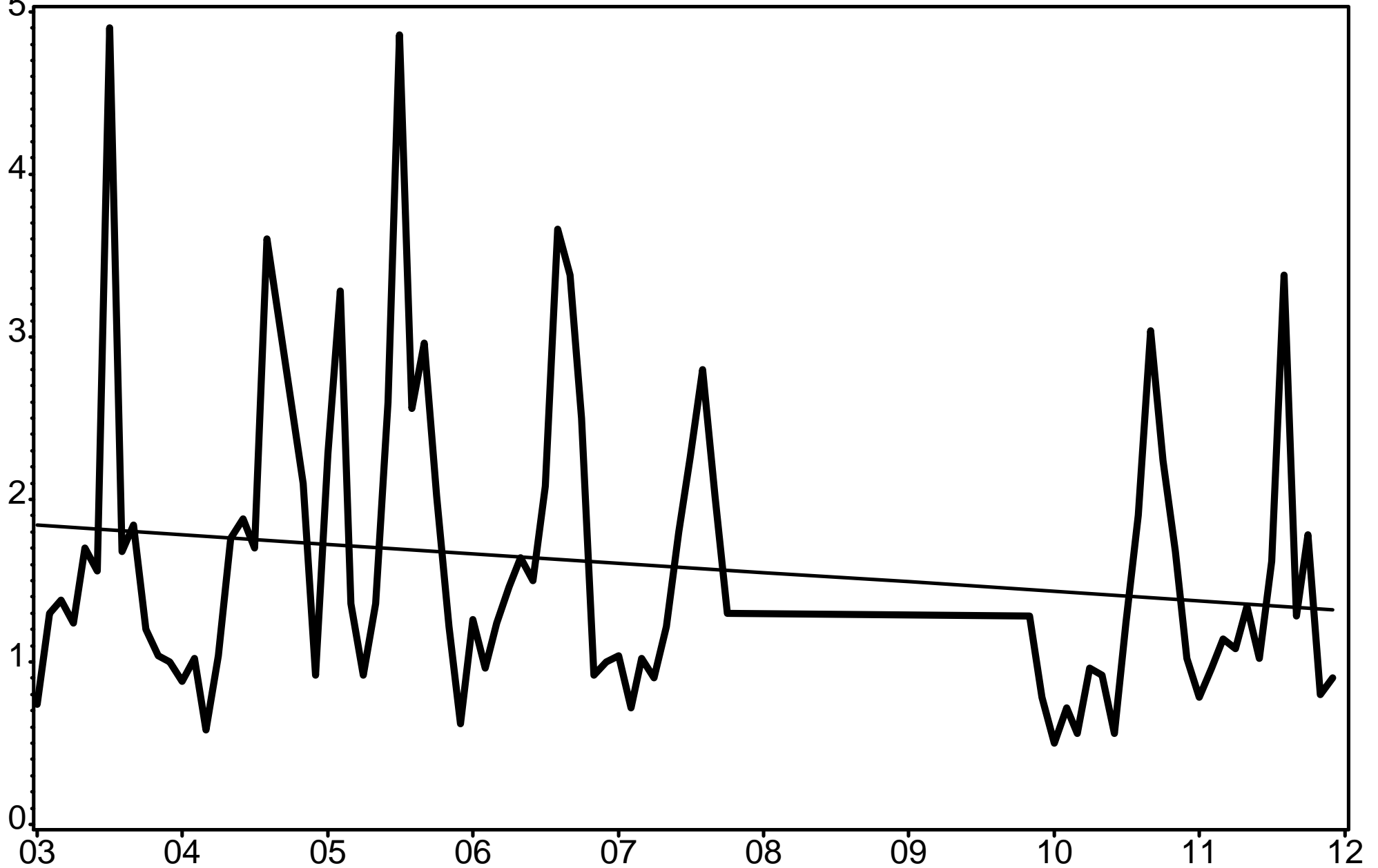


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2171

Monthly Data Time Series
for Surface BOD 5-Day in Upper Lemon Bay
Not Adjusted for Seasonal Medians

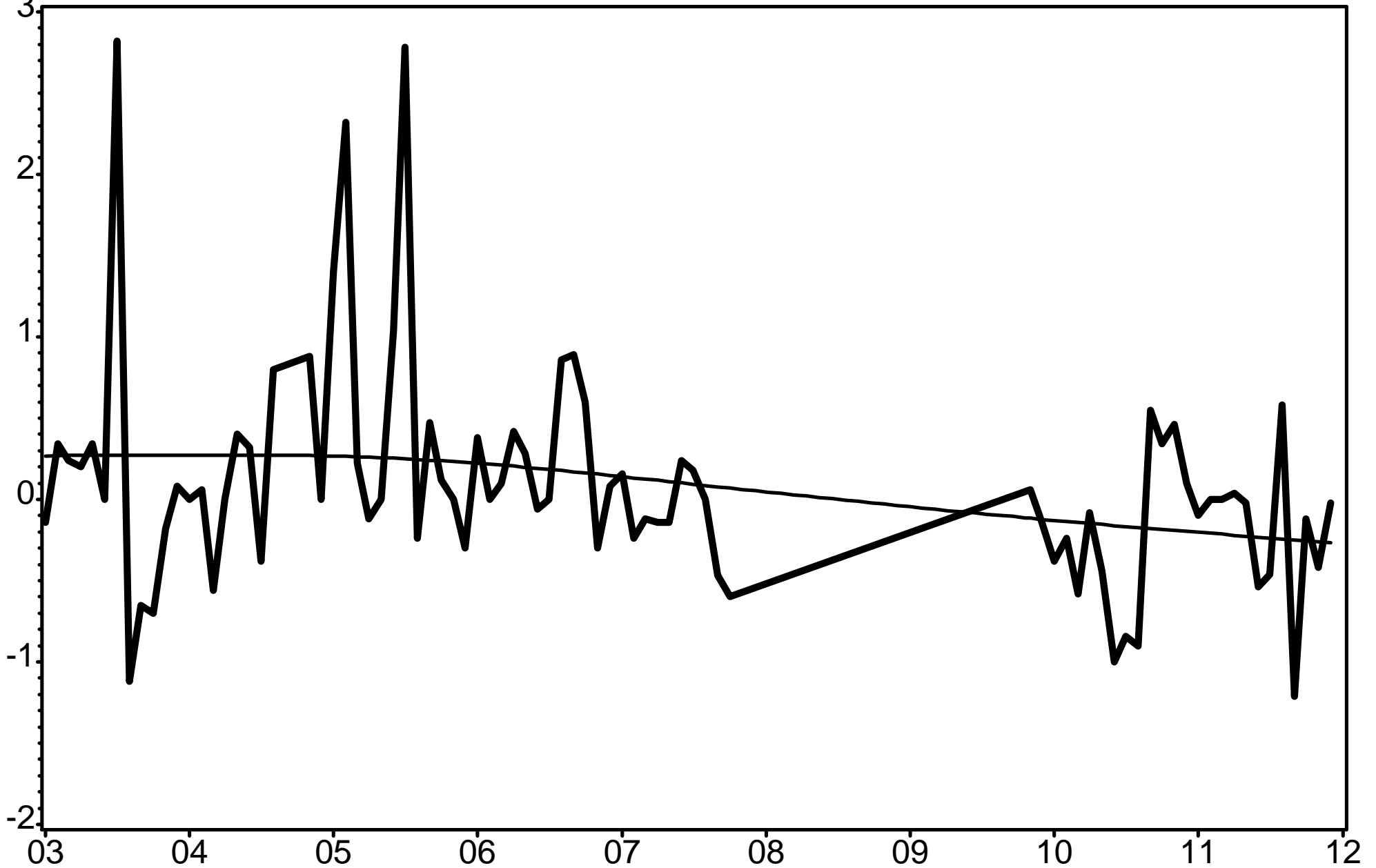
BOD_mgl
(mg/l)



Upper Lemon Bay Trends Appendix - Display 2172

Monthly Data Time Series
for Surface BOD 5-Day in Upper Lemon Bay
Adjusted for Seasonal Medians

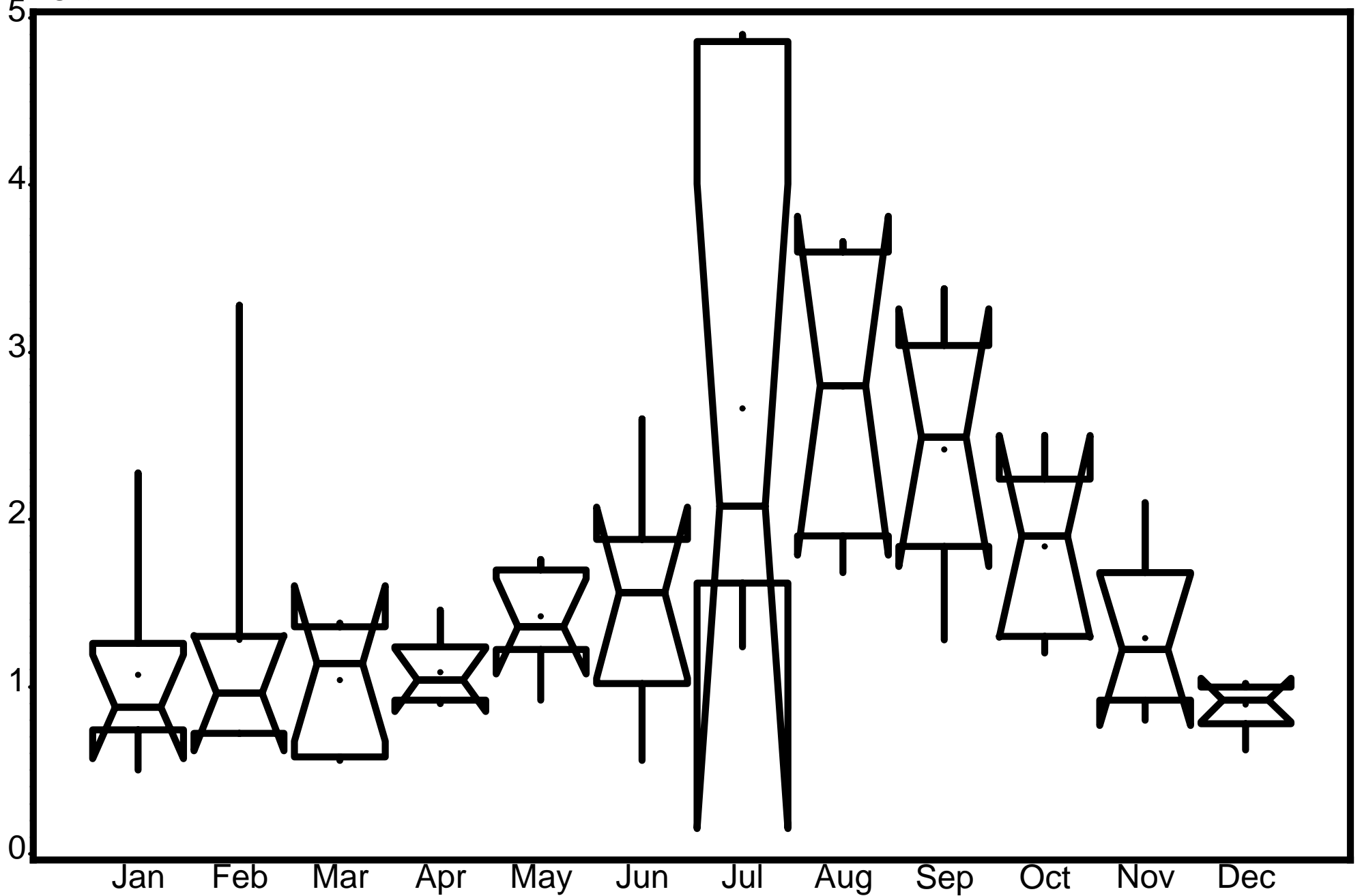
Adjusted
BOD_mgl
(mg/l)



Upper Lemon Bay Trends Appendix - Display 2173

Seasonal Univariate Statistics for Surface BOD 5-Day in Upper Lemon Bay

BOD_mgl
(mg/l)



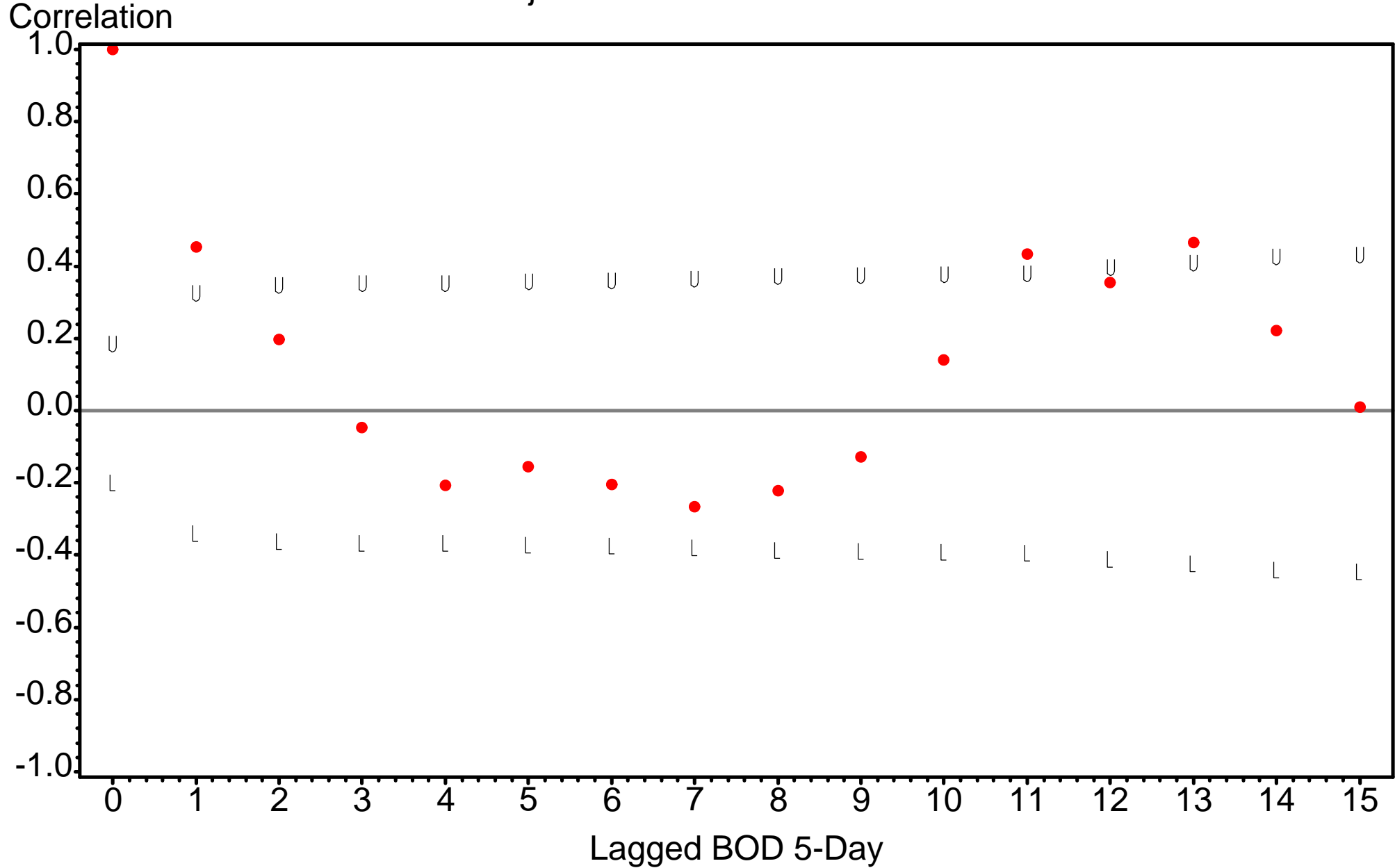
Upper Lemon Bay Trends Appendix - Display 2174
Autocorrelation Statistics for Surface BOD 5-Day in Upper Lemon Bay

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.453	0.167	0.333	-0.333
2	0.198	0.178	0.355	-0.355
3	-0.046	0.180	0.359	-0.359
4	-0.206	0.180	0.360	-0.360
5	-0.156	0.182	0.364	-0.364
6	-0.204	0.183	0.366	-0.366
7	-0.267	0.185	0.371	-0.371
8	-0.221	0.189	0.378	-0.378
9	-0.128	0.191	0.382	-0.382
10	0.141	0.192	0.384	-0.384
11	0.434	0.193	0.386	-0.386
12	0.355	0.202	0.404	-0.404
13	0.466	0.208	0.415	-0.415
14	0.222	0.217	0.434	-0.434
15	0.011	0.219	0.438	-0.438

Upper Lemon Bay Trends Appendix - Display 2175

Correlogram for Surface BOD 5-Day in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2176
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.1	0.186	0.186	-0.03

Upper Lemon Bay Trends Appendix - Display 2177
Seasonal Kendall Tau Trend Test Statistics
for Surface BOD 5-Day in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.2375	0.012007	0.083412	-0.04

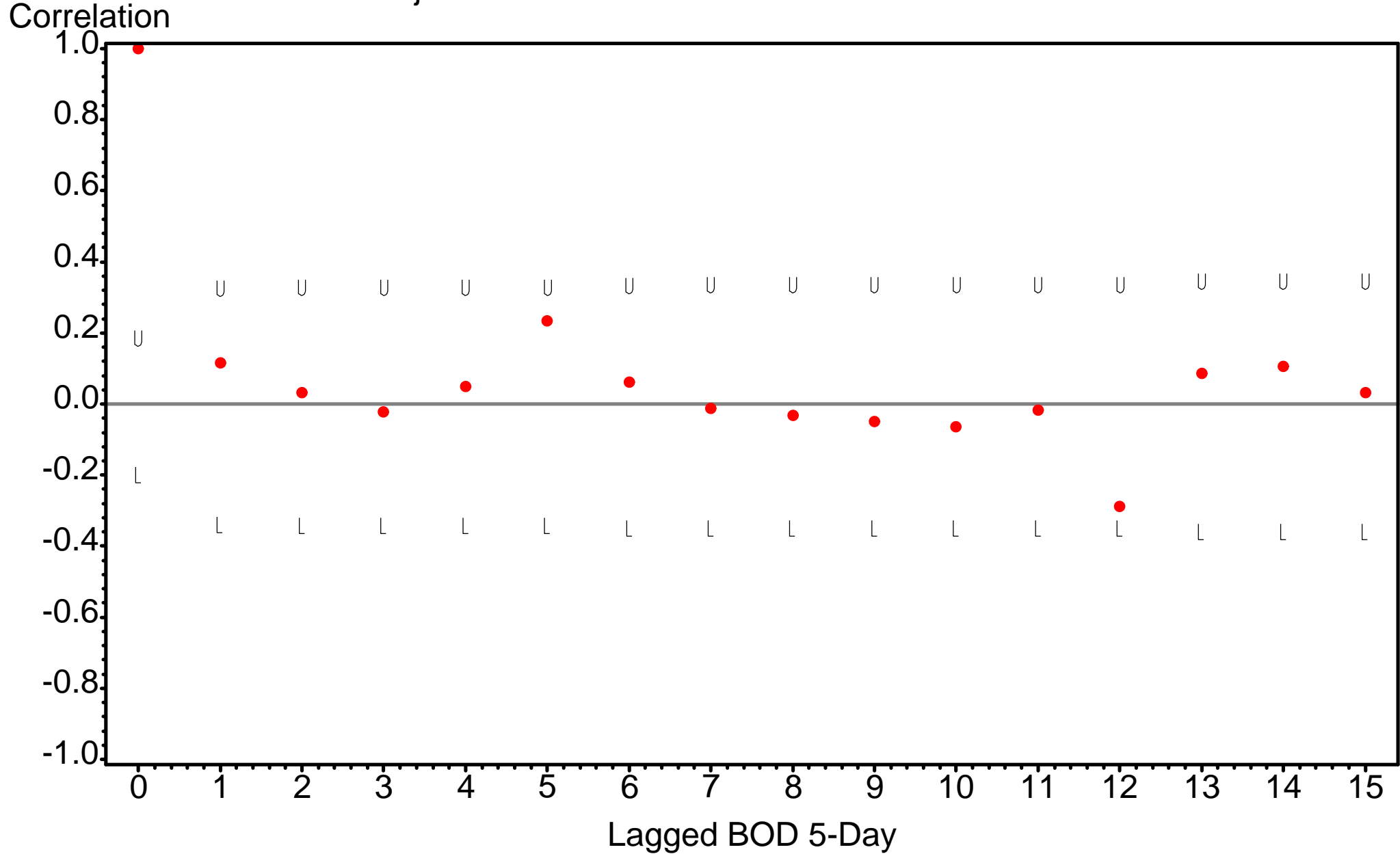
Upper Lemon Bay Trends Appendix - Display 2179
Autocorrelation Statistics for Surface BOD 5-Day in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged BOD 5-Day	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.116	0.167	0.333	-0.333
2	0.033	0.167	0.335	-0.335
3	-0.023	0.167	0.335	-0.335
4	0.049	0.167	0.335	-0.335
5	0.235	0.168	0.335	-0.335
6	0.061	0.171	0.341	-0.341
7	-0.013	0.171	0.342	-0.342
8	-0.032	0.171	0.342	-0.342
9	-0.050	0.171	0.342	-0.342
10	-0.064	0.171	0.342	-0.342
11	-0.016	0.171	0.343	-0.343
12	-0.289	0.171	0.343	-0.343
13	0.086	0.176	0.351	-0.351
14	0.105	0.176	0.352	-0.352
15	0.031	0.177	0.353	-0.353

Upper Lemon Bay Trends Appendix - Display 2180

Correlogram for Surface BOD 5-Day in Upper Lemon Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

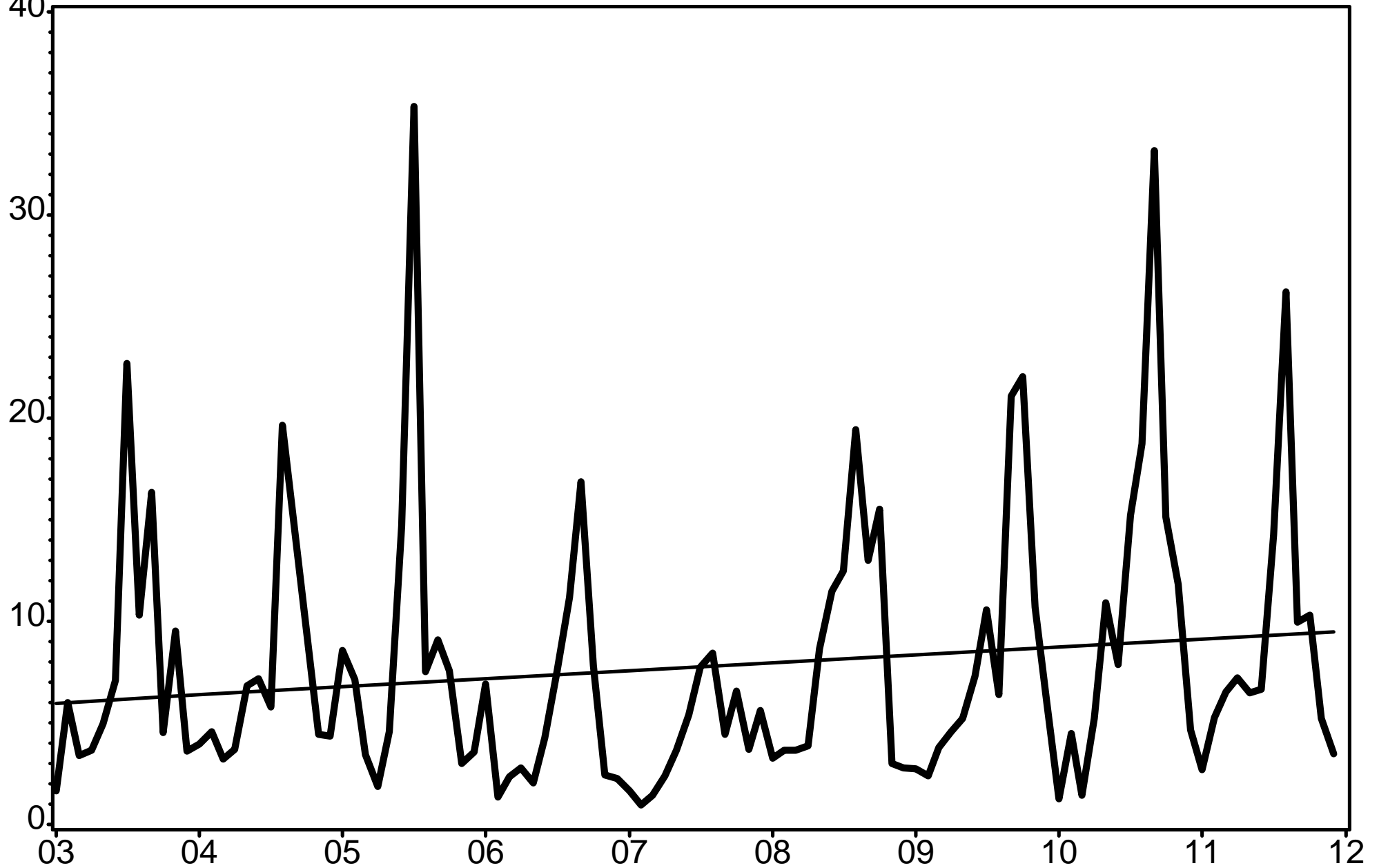
Upper Lemon Bay Trends Appendix - Display 2181

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



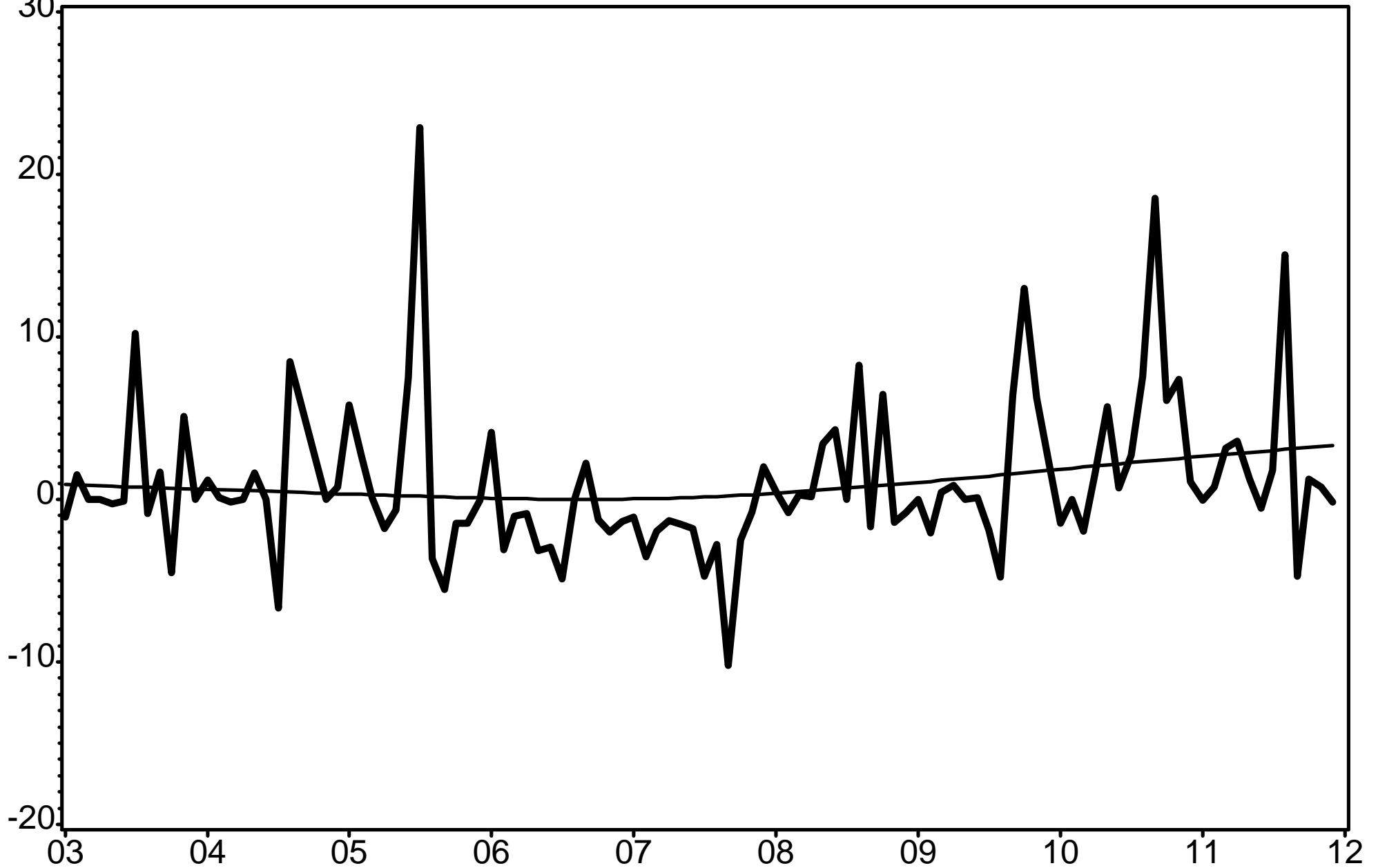
Upper Lemon Bay Trends Appendix - Display 2182

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

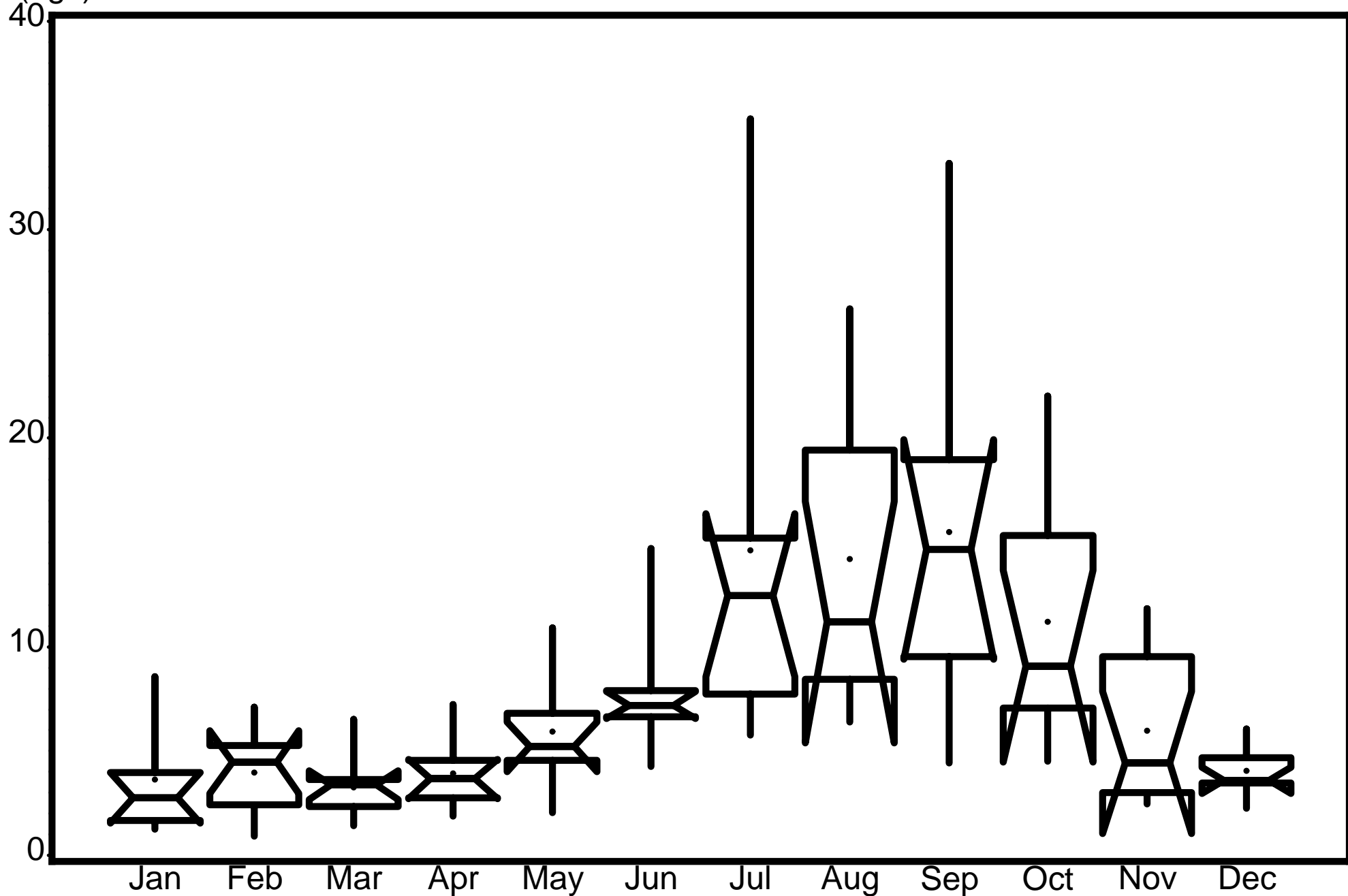


Upper Lemon Bay Trends Appendix - Display 2183

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay

CHLAC_ugl
(ug/l)



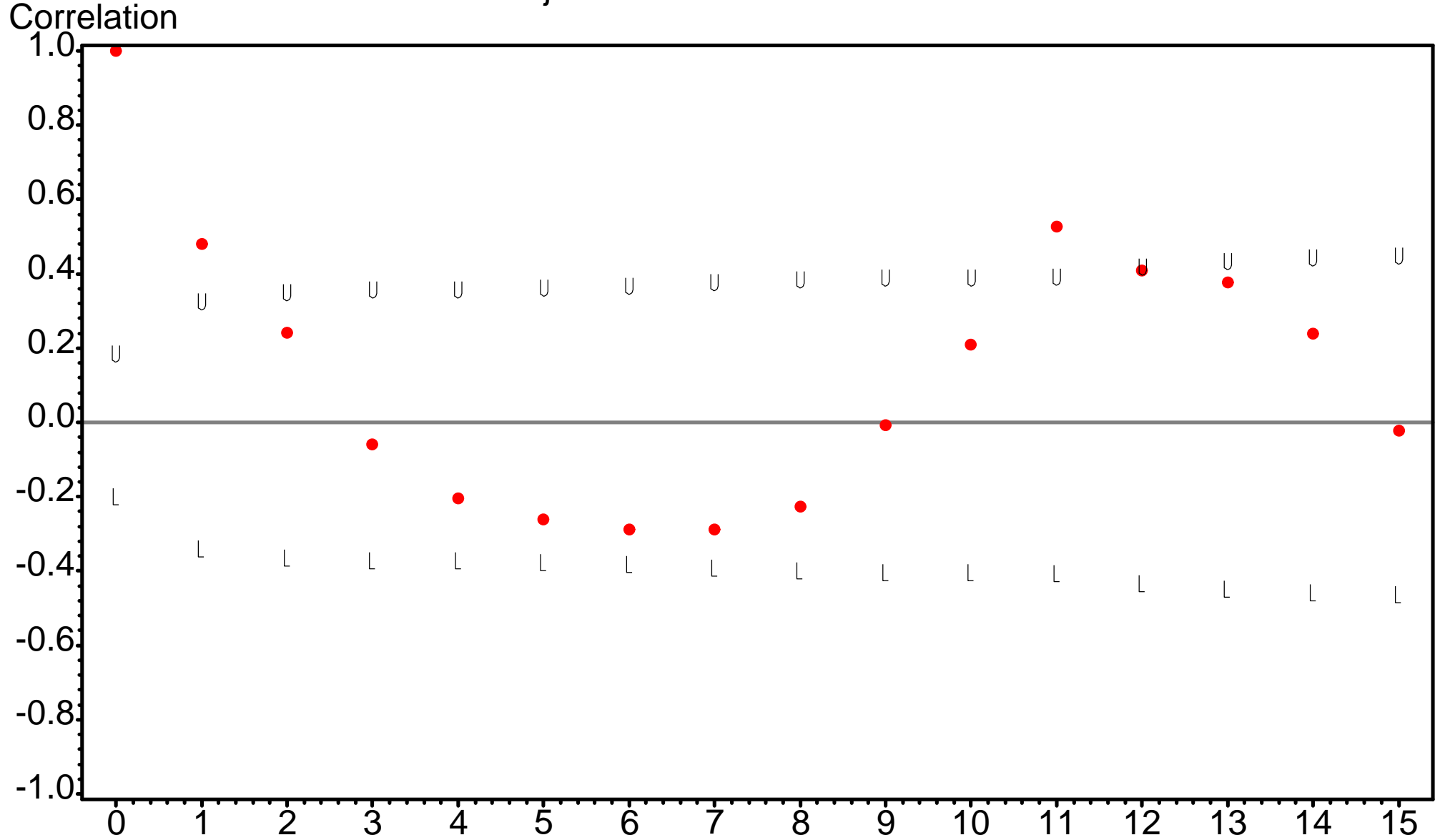
Upper Lemon Bay Trends Appendix - Display 2184
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.481	0.167	0.333	-0.333
2	0.241	0.179	0.358	-0.358
3	-0.060	0.182	0.364	-0.364
4	-0.205	0.182	0.364	-0.364
5	-0.260	0.184	0.369	-0.369
6	-0.289	0.188	0.375	-0.375
7	-0.289	0.192	0.384	-0.384
8	-0.226	0.196	0.392	-0.392
9	-0.008	0.198	0.396	-0.396
10	0.209	0.198	0.396	-0.396
11	0.527	0.200	0.400	-0.400
12	0.409	0.213	0.425	-0.425
13	0.376	0.220	0.440	-0.440
14	0.240	0.226	0.451	-0.451
15	-0.021	0.228	0.456	-0.456

Upper Lemon Bay Trends Appendix - Display 2185

Correlogram for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2186
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay
Unadjusted for Seasonal Medians

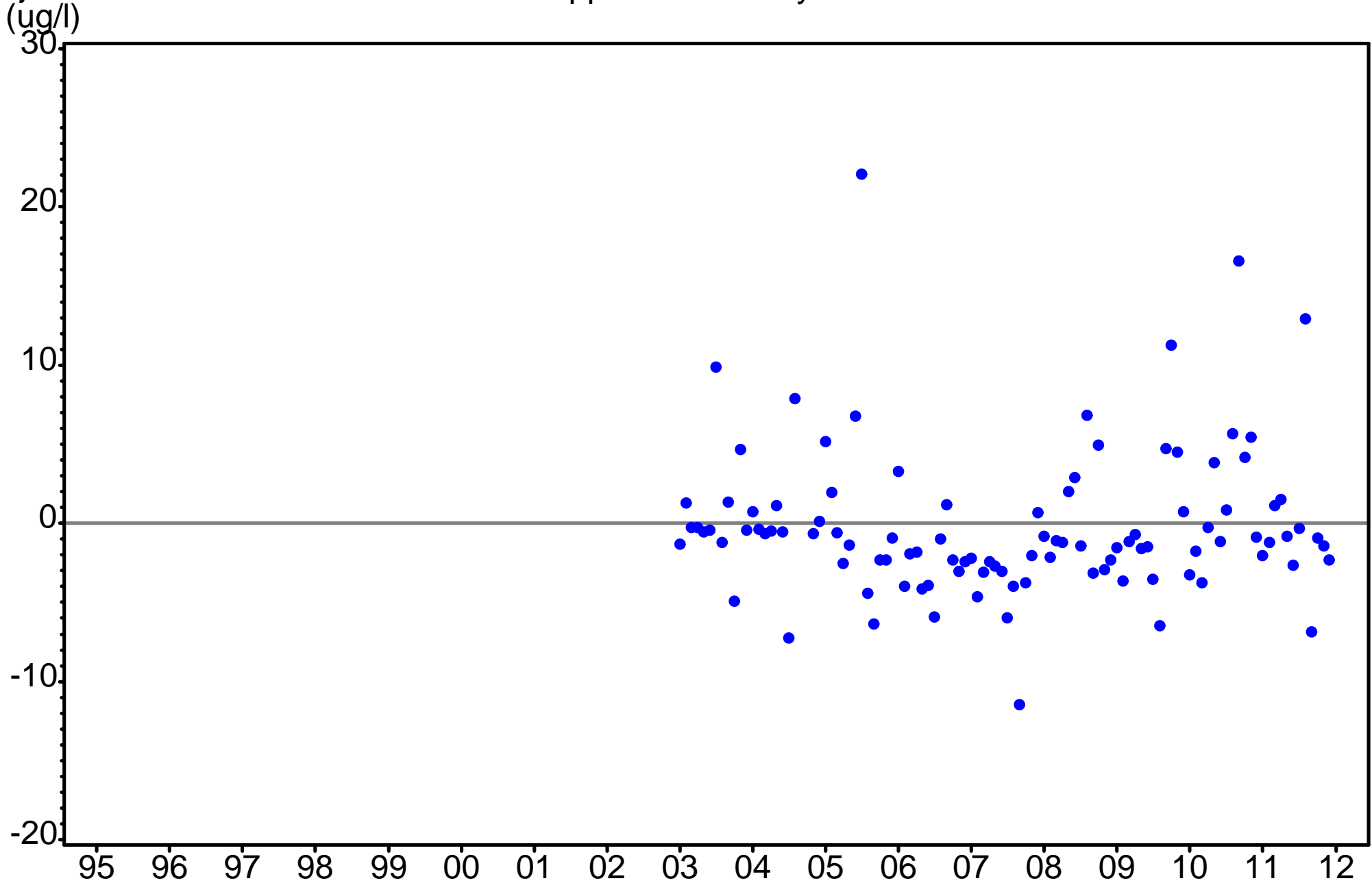
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.123	0.061	0.061	0.282

Upper Lemon Bay Trends Appendix - Display 2187
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.15865	0.044931	0.20802	0.221

Upper Lemon Bay Trends Appendix - Display 2188

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted Upper Lemon Bay



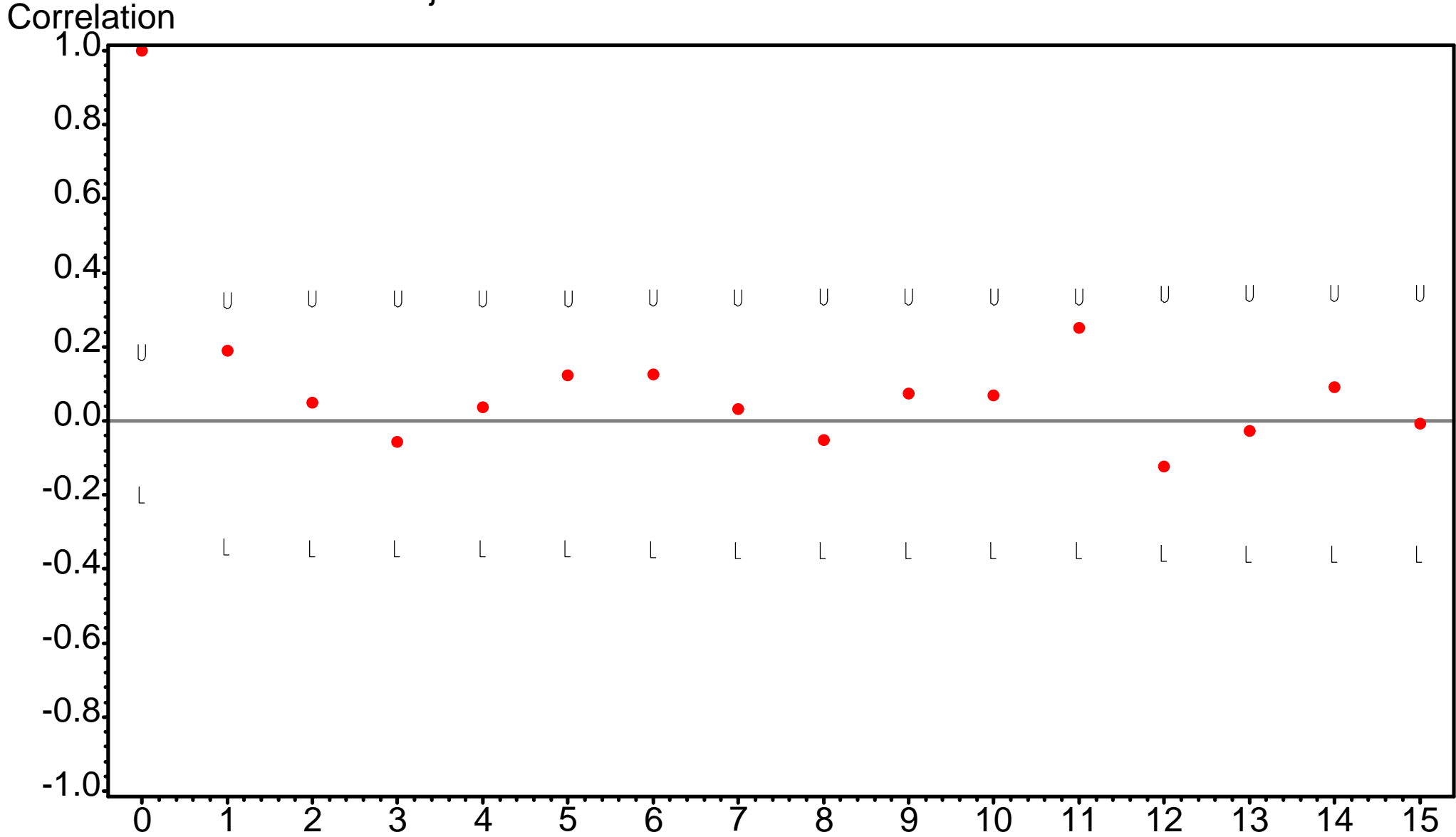
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2189
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.190	0.167	0.333	-0.333
2	0.049	0.169	0.337	-0.337
3	-0.057	0.169	0.338	-0.338
4	0.036	0.169	0.338	-0.338
5	0.122	0.169	0.338	-0.338
6	0.126	0.170	0.340	-0.340
7	0.032	0.171	0.341	-0.341
8	-0.051	0.171	0.342	-0.342
9	0.073	0.171	0.342	-0.342
10	0.070	0.171	0.342	-0.342
11	0.251	0.171	0.343	-0.343
12	-0.122	0.175	0.350	-0.350
13	-0.027	0.176	0.351	-0.351
14	0.090	0.176	0.351	-0.351
15	-0.007	0.176	0.352	-0.352

Upper Lemon Bay Trends Appendix - Display 2190

Correlogram for Surface Chlorophyll-a (Corrected) in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



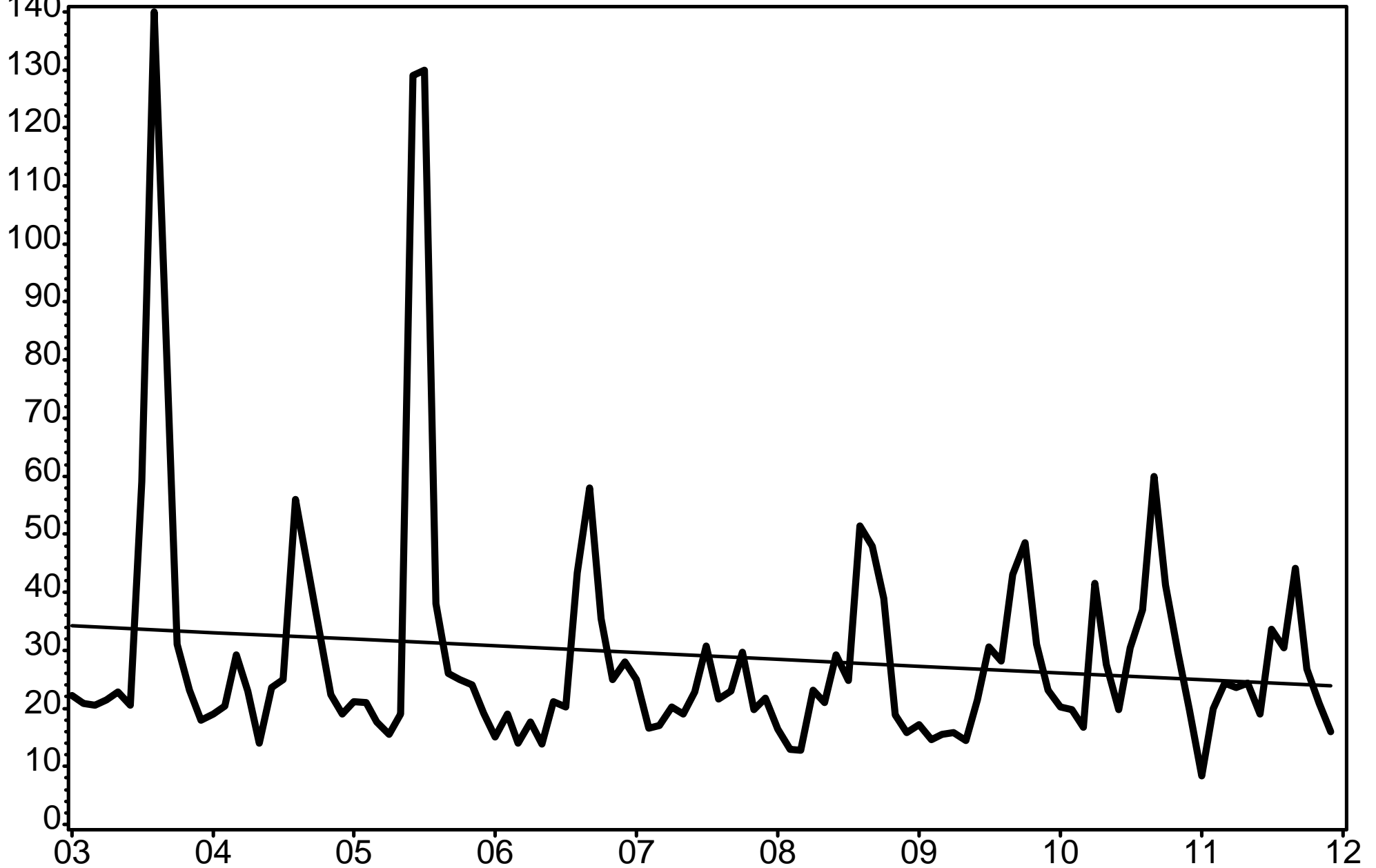
Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2191

Monthly Data Time Series
for Surface Color in Upper Lemon Bay
Not Adjusted for Seasonal Medians

COLOR
(PCU)



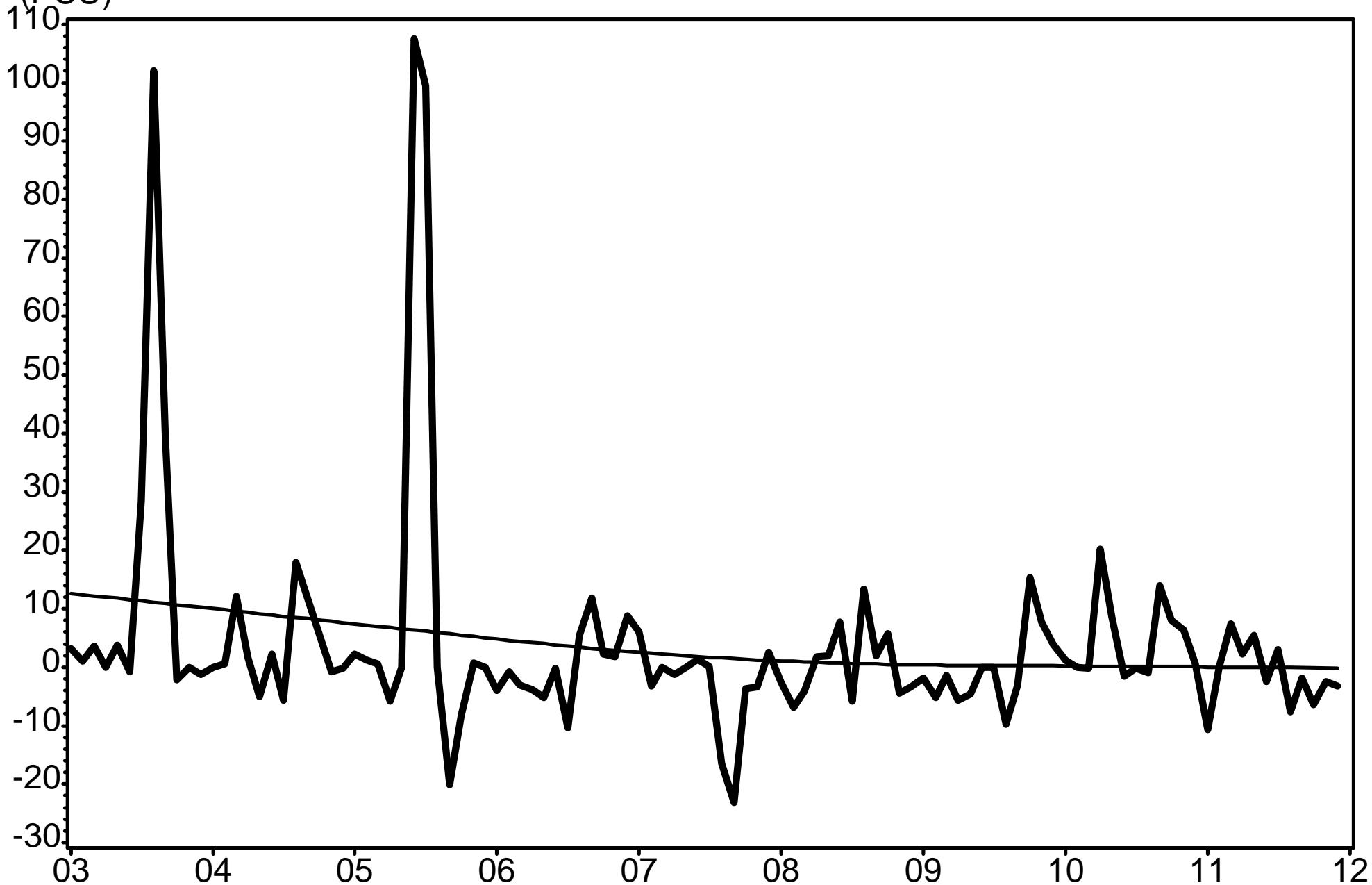
Upper Lemon Bay Trends Appendix - Display 2192

Monthly Data Time Series

for Surface Color in Upper Lemon Bay

Adjusted for Seasonal Medians

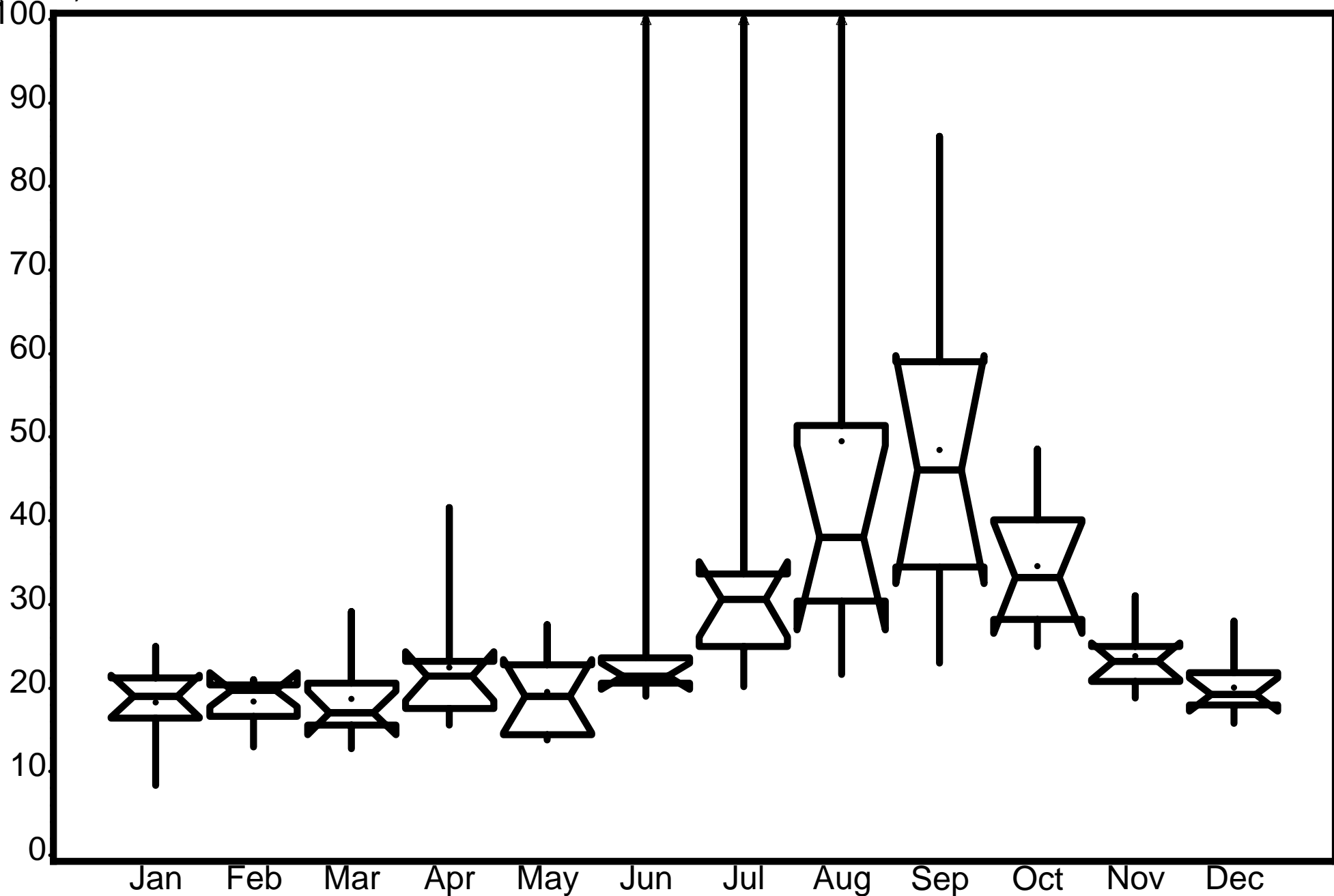
Adjusted
COLOR
(PCU)



Upper Lemon Bay Trends Appendix - Display 2193

Seasonal Univariate Statistics
for Surface Color in Upper Lemon Bay

COLOR
(PCU)



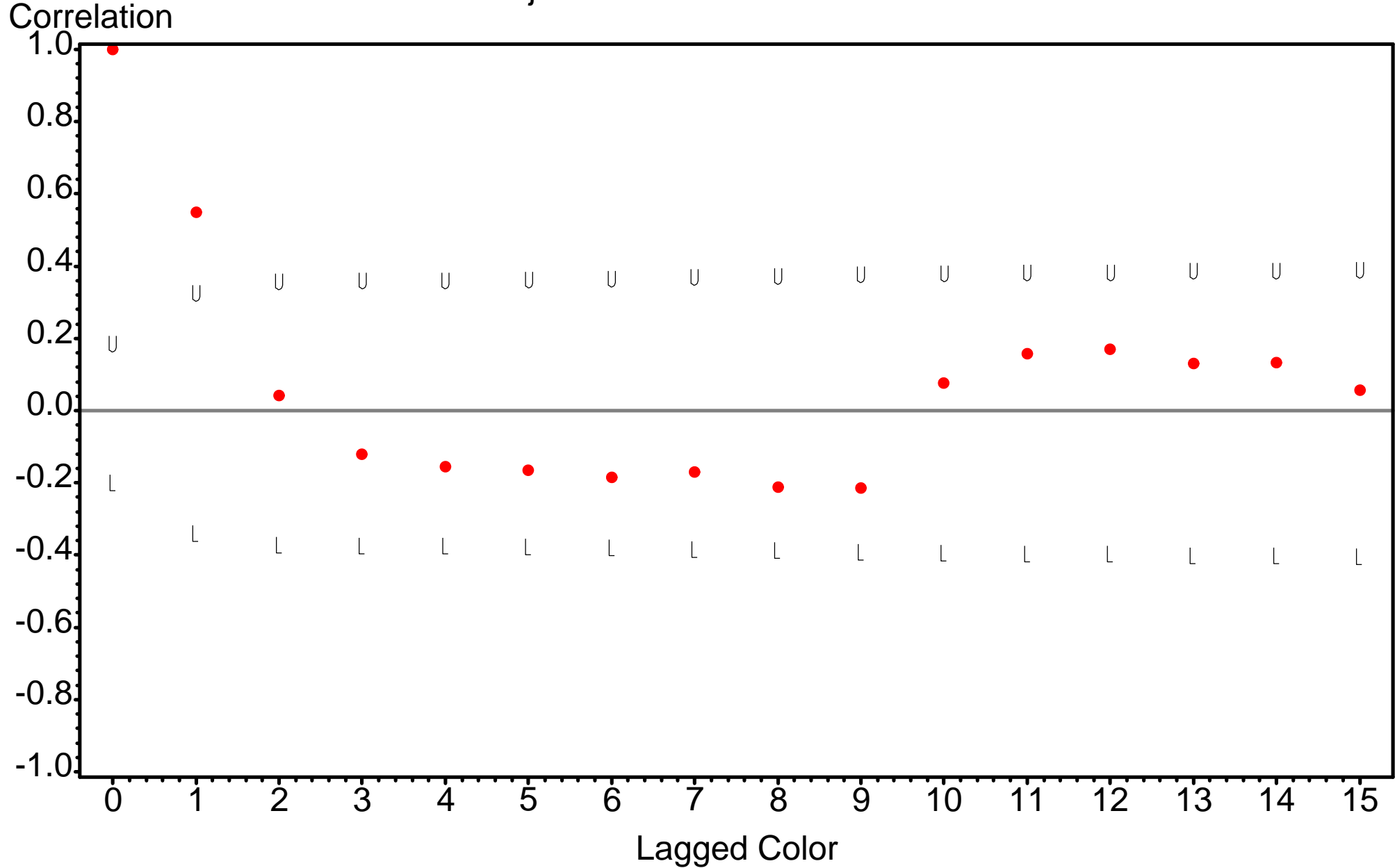
Upper Lemon Bay Trends Appendix - Display 2194
Autocorrelation Statistics for Surface Color in Upper Lemon Bay

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.550	0.167	0.333	-0.333
2	0.042	0.183	0.365	-0.365
3	-0.121	0.183	0.366	-0.366
4	-0.154	0.184	0.367	-0.367
5	-0.166	0.185	0.369	-0.369
6	-0.185	0.186	0.372	-0.372
7	-0.171	0.188	0.376	-0.376
8	-0.211	0.189	0.378	-0.378
9	-0.215	0.191	0.383	-0.383
10	0.077	0.194	0.387	-0.387
11	0.157	0.194	0.388	-0.388
12	0.169	0.195	0.390	-0.390
13	0.131	0.196	0.393	-0.393
14	0.133	0.197	0.394	-0.394
15	0.057	0.198	0.396	-0.396

Upper Lemon Bay Trends Appendix - Display 2195

Correlogram for Surface Color in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2196
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.011	0.866	0.866	0.046

Upper Lemon Bay Trends Appendix - Display 2197
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in Upper Lemon Bay
Adjusted for Seasonal Medians

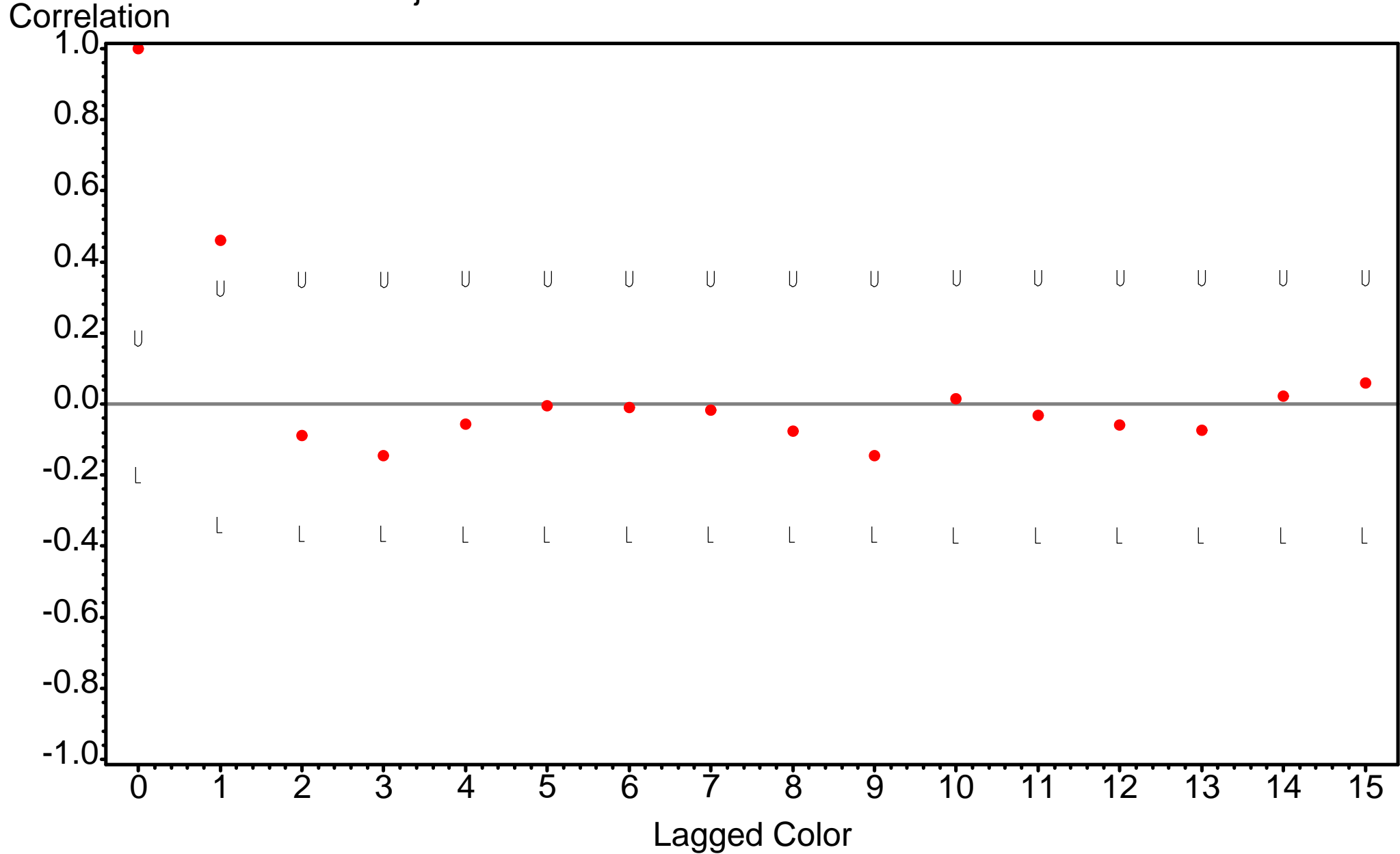
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.074519	0.35446	0.38349	-0.2

Upper Lemon Bay Trends Appendix - Display 2199
Autocorrelation Statistics for Surface Color in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.461	0.167	0.333	-0.333
2	-0.088	0.178	0.356	-0.356
3	-0.144	0.178	0.357	-0.357
4	-0.056	0.180	0.359	-0.359
5	-0.004	0.180	0.359	-0.359
6	-0.011	0.180	0.359	-0.359
7	-0.016	0.180	0.359	-0.359
8	-0.077	0.180	0.359	-0.359
9	-0.146	0.180	0.360	-0.360
10	0.016	0.181	0.362	-0.362
11	-0.031	0.181	0.362	-0.362
12	-0.060	0.181	0.362	-0.362
13	-0.073	0.181	0.363	-0.363
14	0.021	0.182	0.363	-0.363
15	0.060	0.182	0.363	-0.363

Upper Lemon Bay Trends Appendix - Display 2200

Correlogram for Surface Color in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

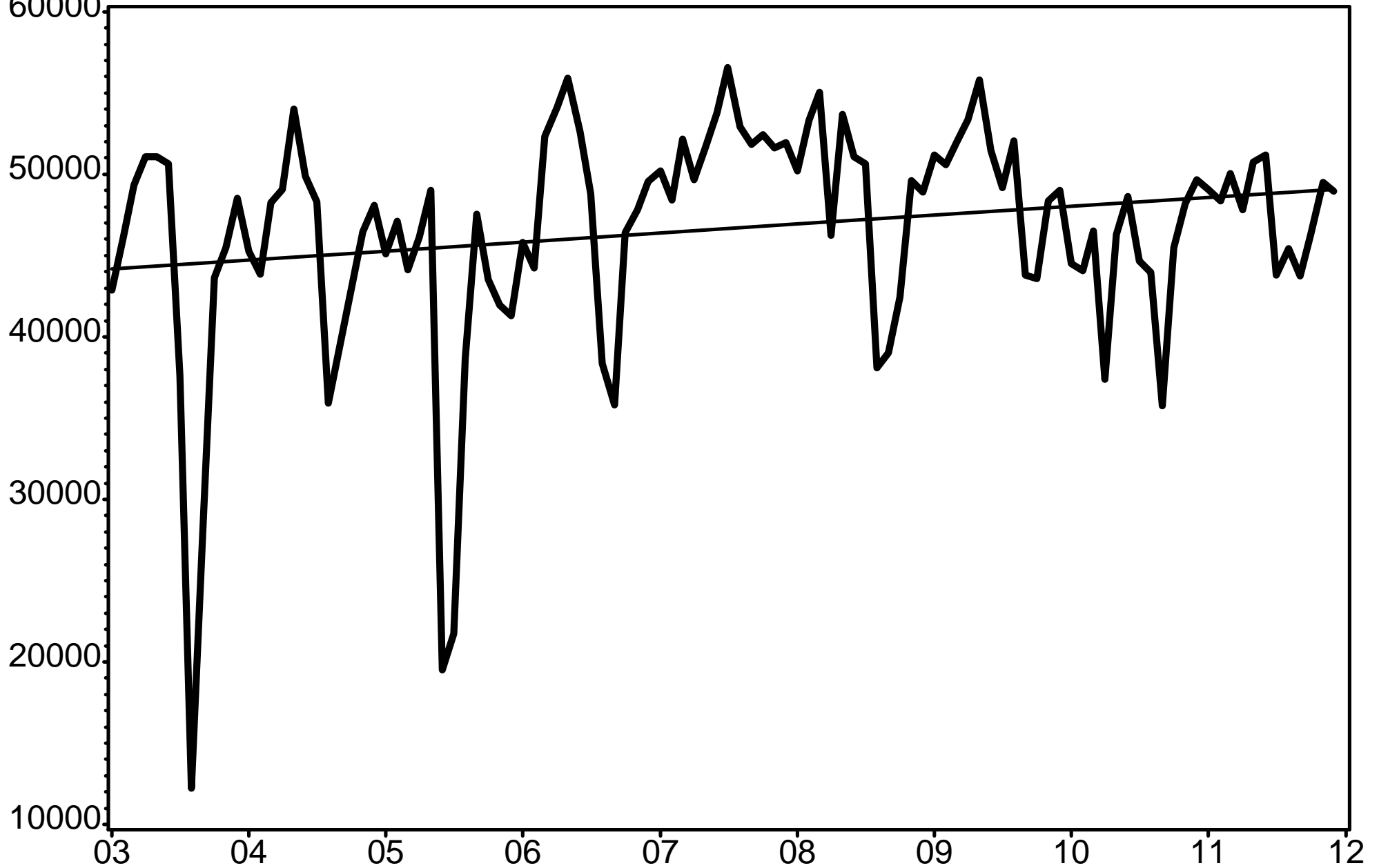
Upper Lemon Bay Trends Appendix - Display 2201

Monthly Data Time Series

for Surface Specific Conductance in Upper Lemon Bay

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



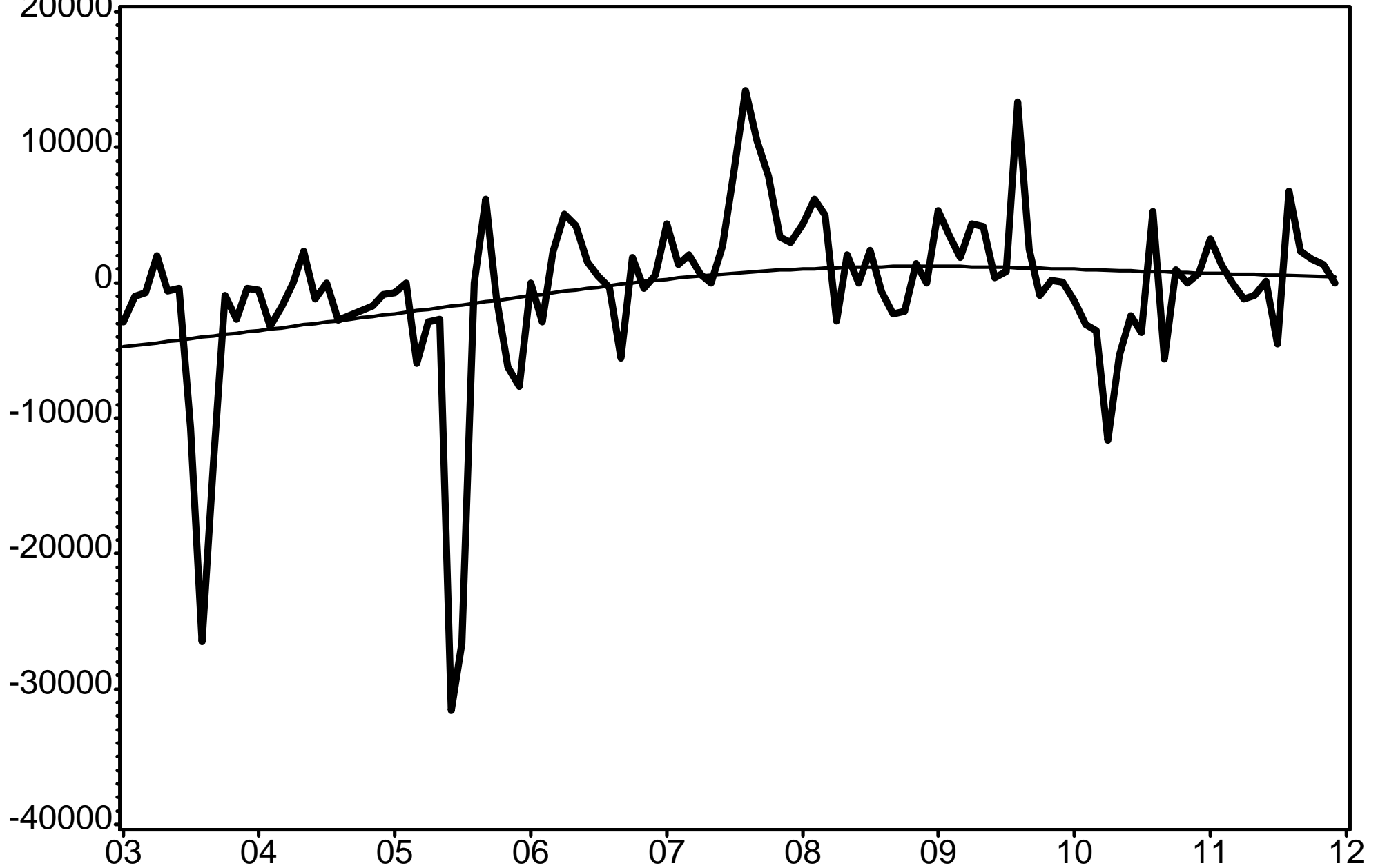
Upper Lemon Bay Trends Appendix - Display 2202

Monthly Data Time Series

for Surface Specific Conductance in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
COND
($\mu\text{S}/\text{cm}$)
20000

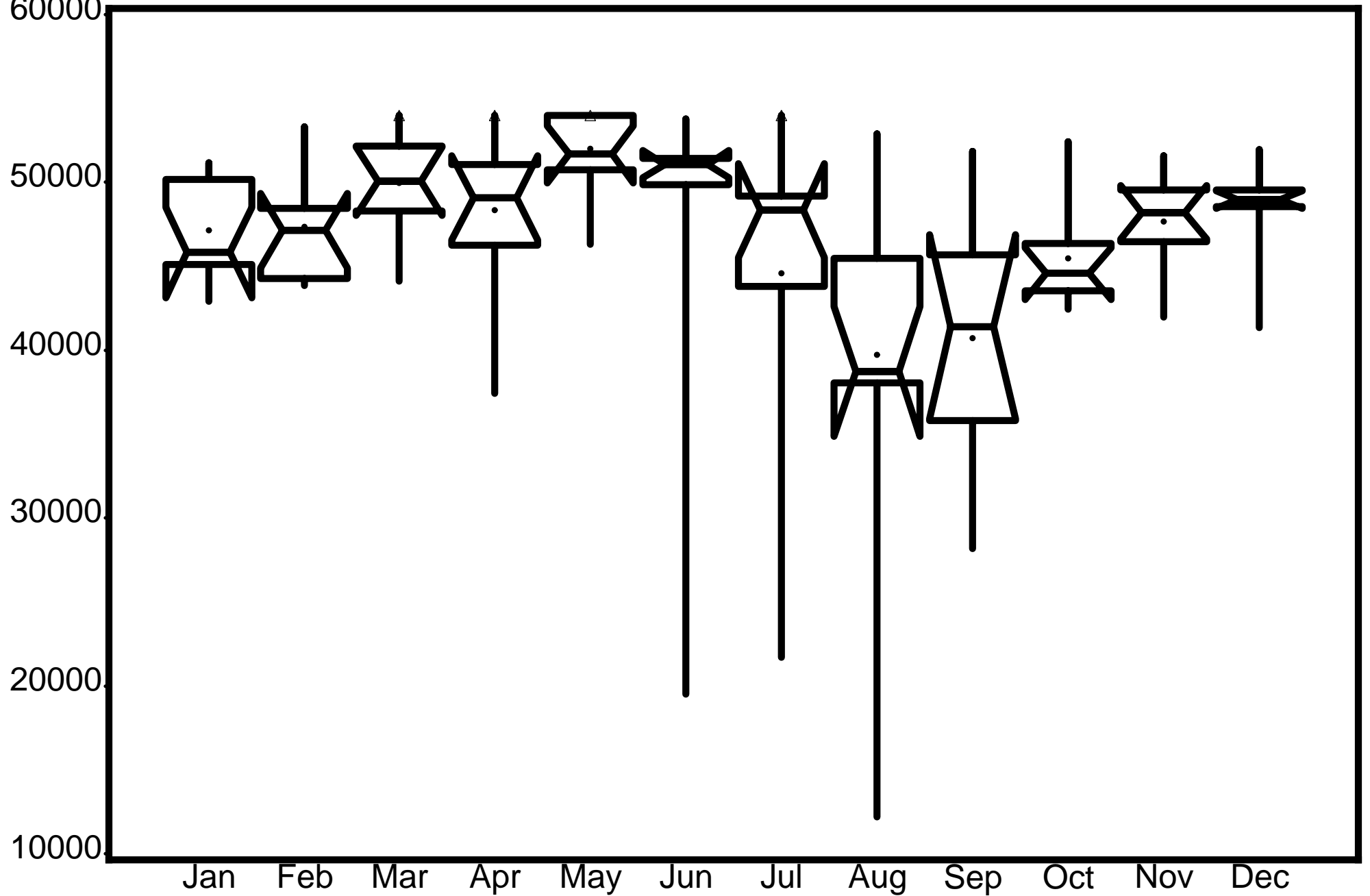


Upper Lemon Bay Trends Appendix - Display 2203

Seasonal Univariate Statistics

for Surface Specific Conductance in Upper Lemon Bay

COND
($\mu\text{S}/\text{cm}$)
60000



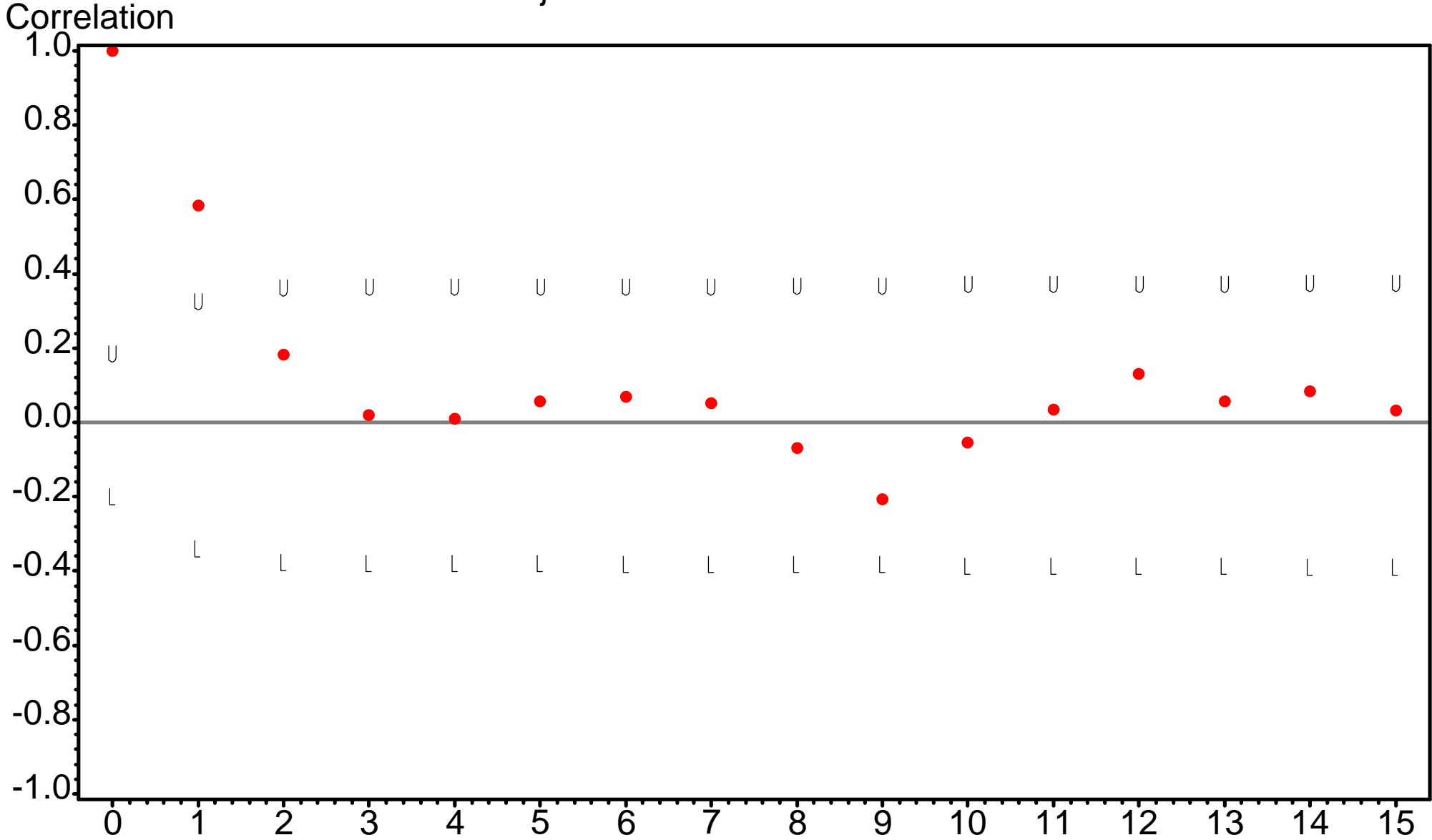
Upper Lemon Bay Trends Appendix - Display 2204
Autocorrelation Statistics for Surface Specific Conductance in Upper Lemon Bay

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.583	0.167	0.333	-0.333
2	0.182	0.185	0.369	-0.369
3	0.019	0.186	0.372	-0.372
4	0.009	0.186	0.372	-0.372
5	0.056	0.186	0.372	-0.372
6	0.069	0.186	0.373	-0.373
7	0.052	0.187	0.373	-0.373
8	-0.069	0.187	0.374	-0.374
9	-0.207	0.187	0.374	-0.374
10	-0.053	0.189	0.378	-0.378
11	0.035	0.189	0.379	-0.379
12	0.130	0.189	0.379	-0.379
13	0.056	0.190	0.380	-0.380
14	0.084	0.190	0.381	-0.381
15	0.033	0.191	0.381	-0.381

Upper Lemon Bay Trends Appendix - Display 2205

Correlogram for Surface Specific Conductance in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2206
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.075	0.257	0.257	199.5

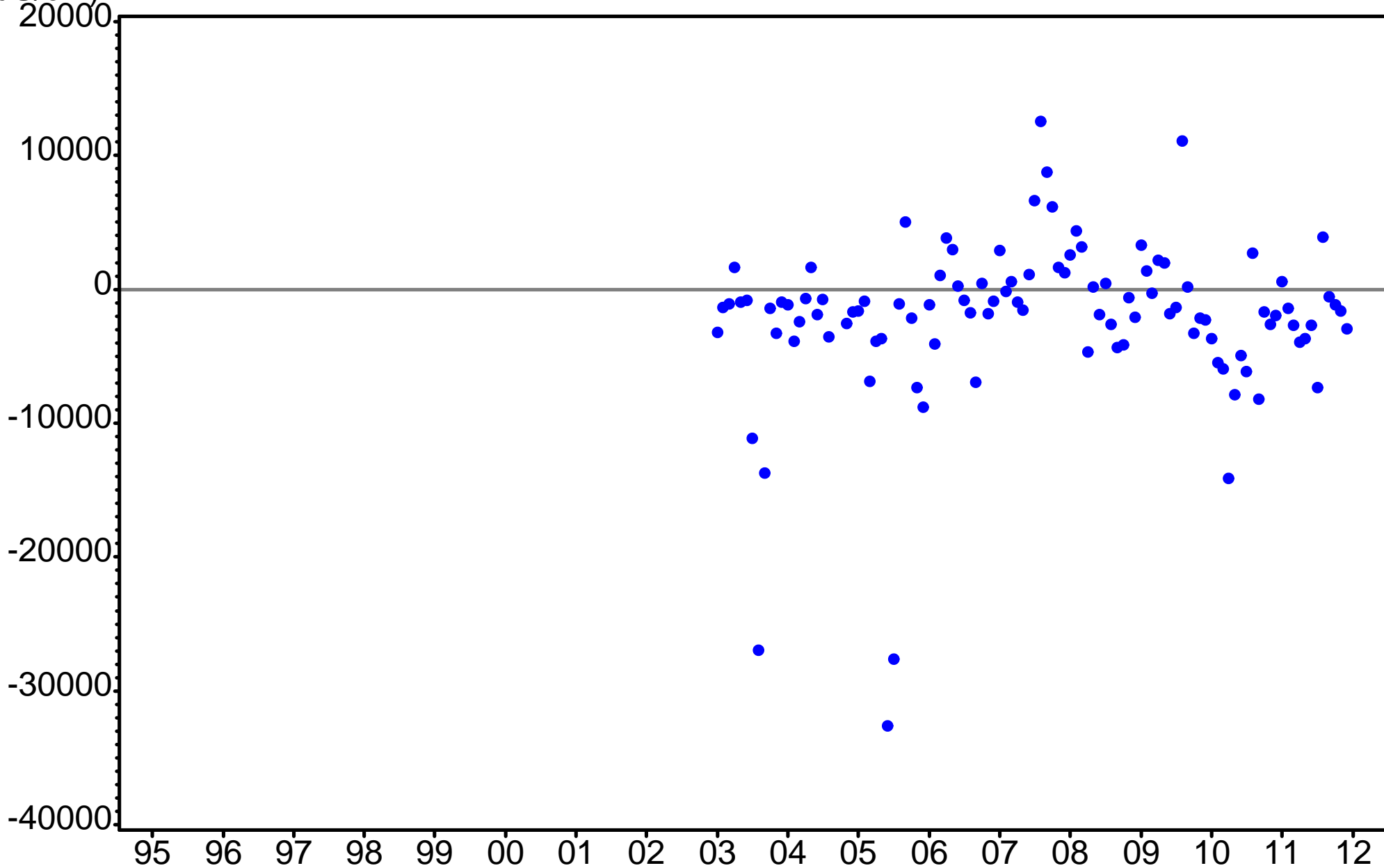
Upper Lemon Bay Trends Appendix - Display 2207
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.18269	0.020678	0.32181	296.667

Upper Lemon Bay Trends Appendix - Display 2208

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
($\mu\text{S}/\text{cm}$)

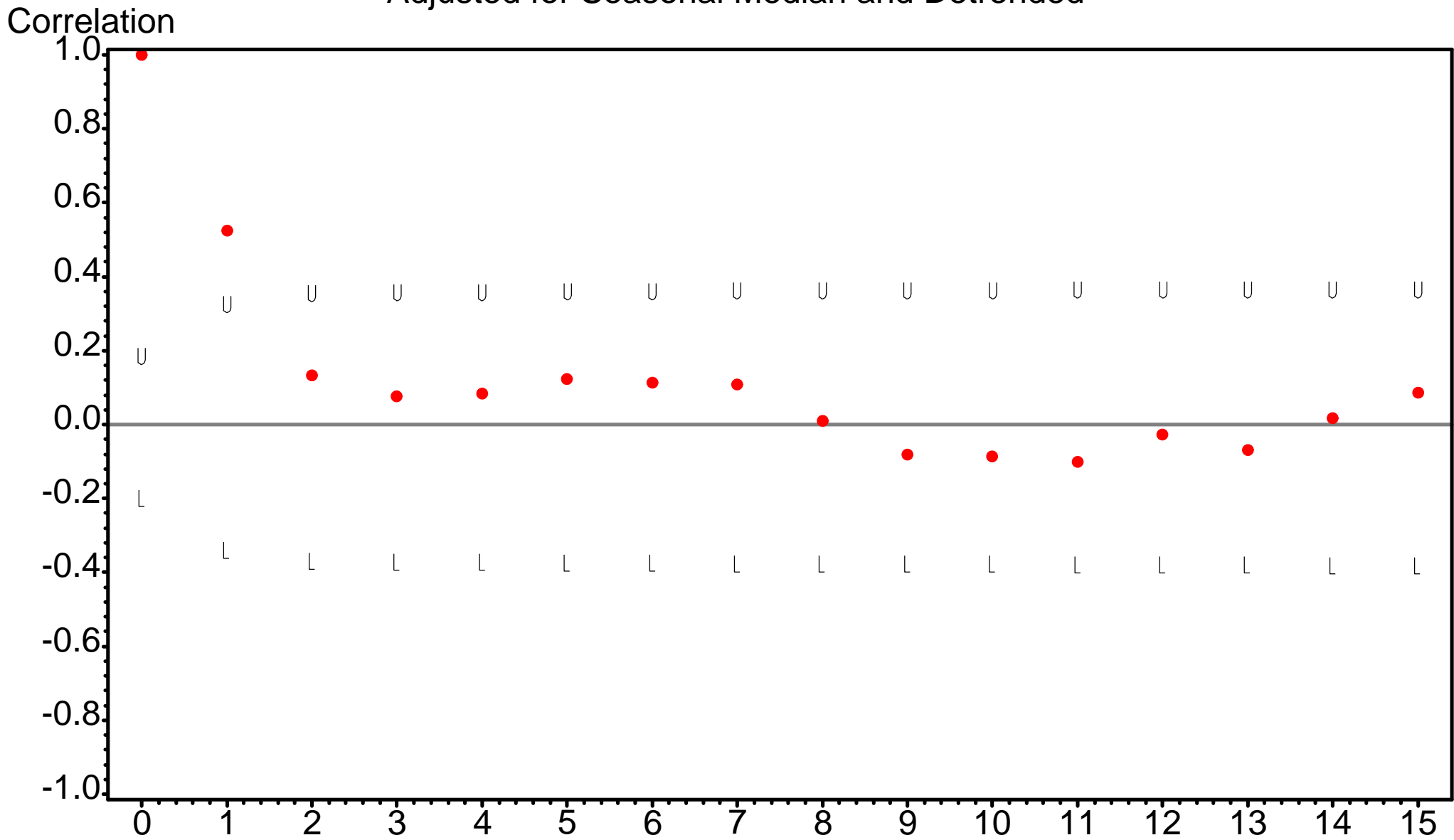


Upper Lemon Bay Trends Appendix - Display 2209
Autocorrelation Statistics for Surface Specific Conductance in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.525	0.167	0.333	-0.333
2	0.134	0.181	0.363	-0.363
3	0.077	0.182	0.364	-0.364
4	0.083	0.183	0.365	-0.365
5	0.122	0.183	0.366	-0.366
6	0.114	0.184	0.367	-0.367
7	0.109	0.184	0.369	-0.369
8	0.011	0.185	0.370	-0.370
9	-0.082	0.185	0.370	-0.370
10	-0.085	0.185	0.370	-0.370
11	-0.101	0.186	0.371	-0.371
12	-0.028	0.186	0.372	-0.372
13	-0.070	0.186	0.372	-0.372
14	0.018	0.186	0.373	-0.373
15	0.085	0.186	0.373	-0.373

Upper Lemon Bay Trends Appendix - Display 2210

Correlogram for Surface Specific Conductance in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Specific Conductance

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

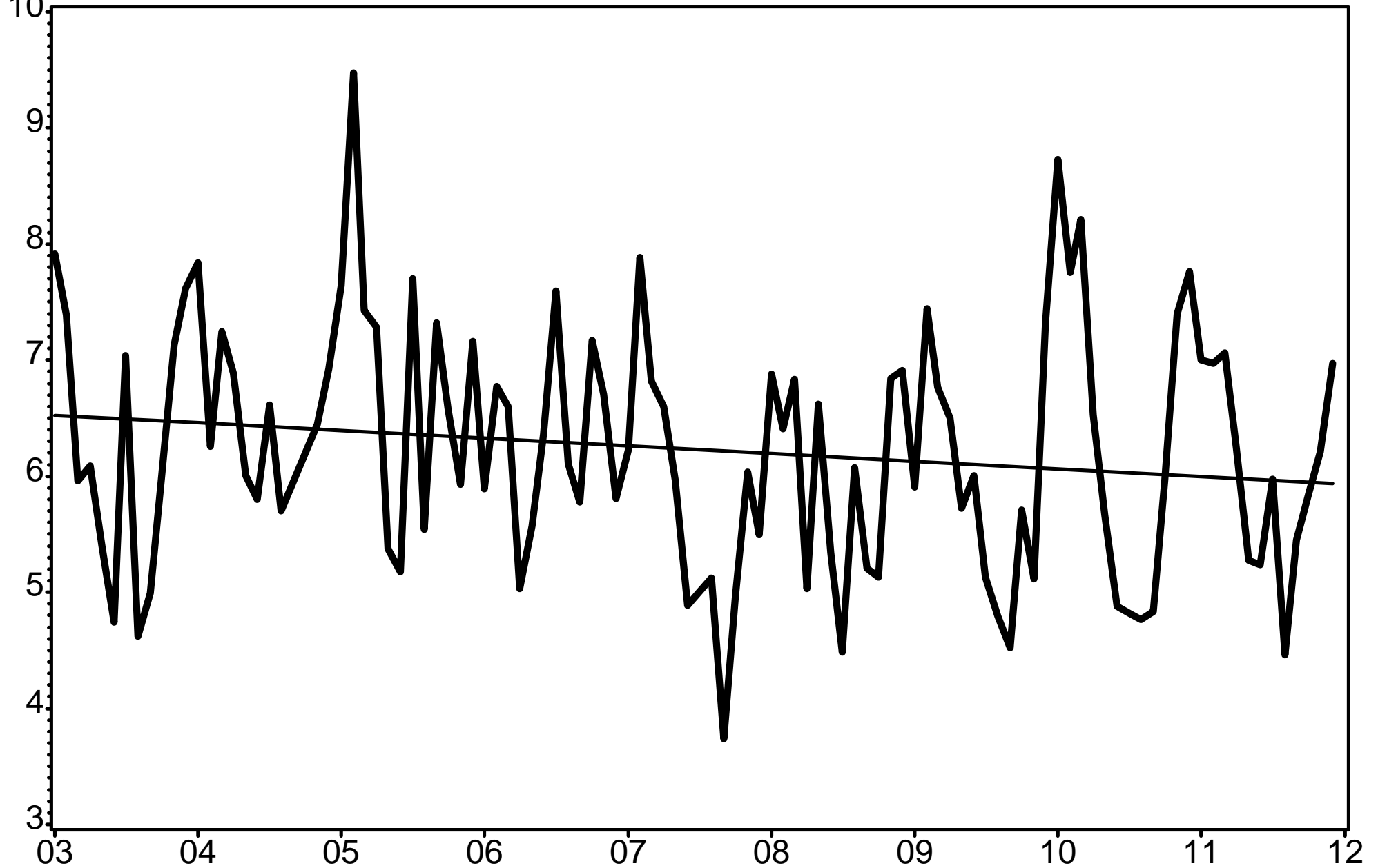
Upper Lemon Bay Trends Appendix - Display 2211

Monthly Data Time Series

for Surface Dissolved Oxygen in Upper Lemon Bay

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



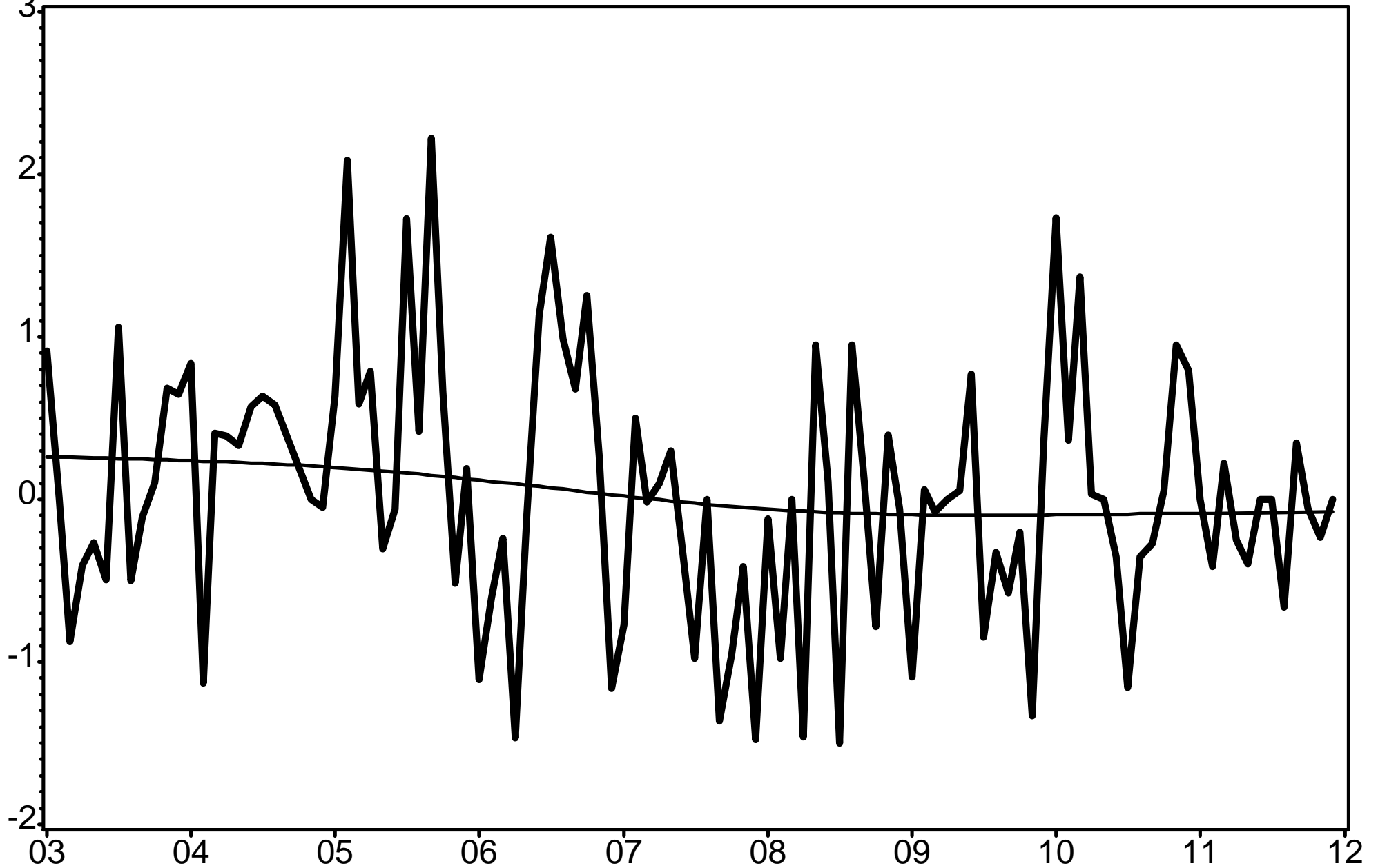
Upper Lemon Bay Trends Appendix - Display 2212

Monthly Data Time Series

for Surface Dissolved Oxygen in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

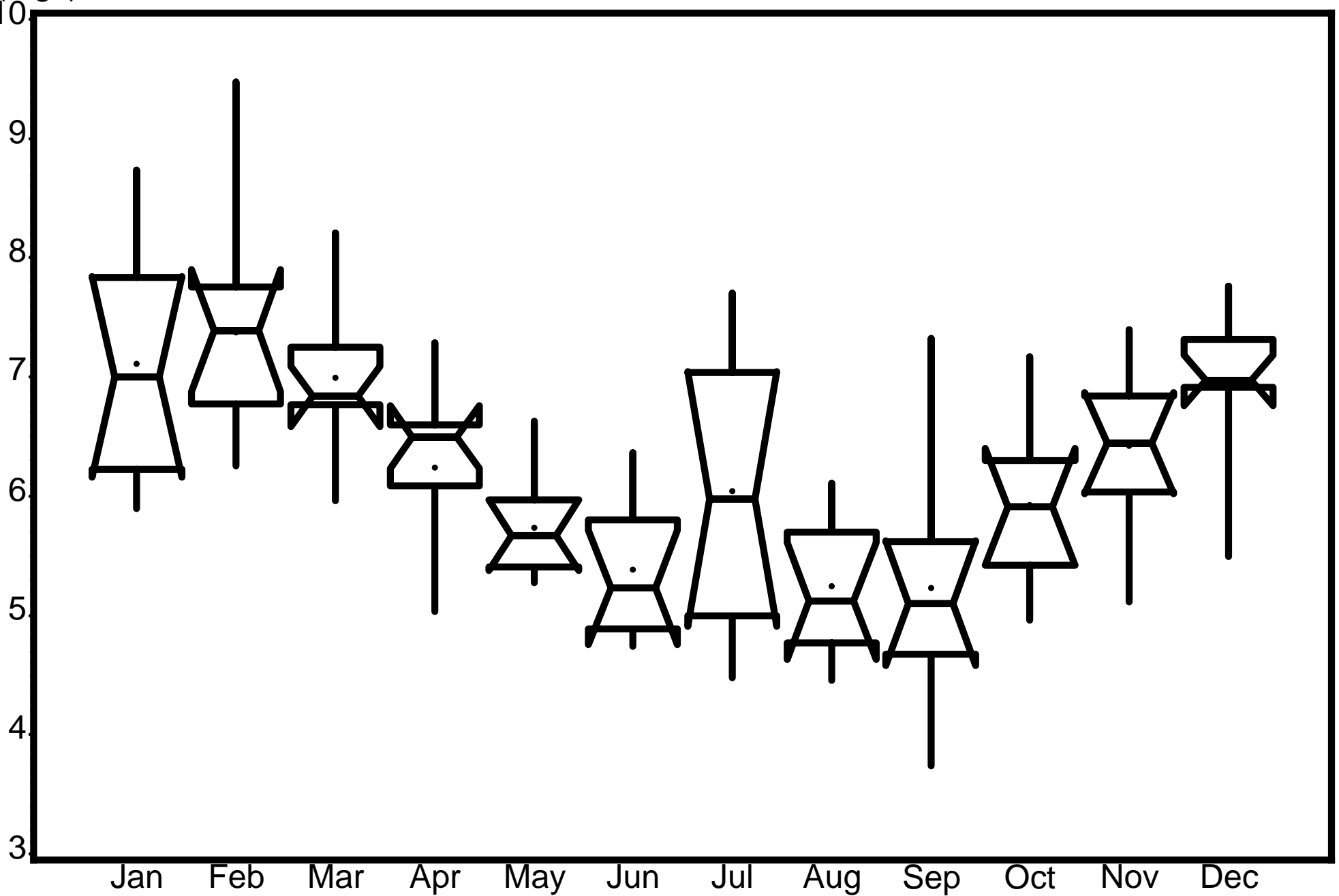


Upper Lemon Bay Trends Appendix - Display 2213

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in Upper Lemon Bay

DO_mgl
(mg/l)



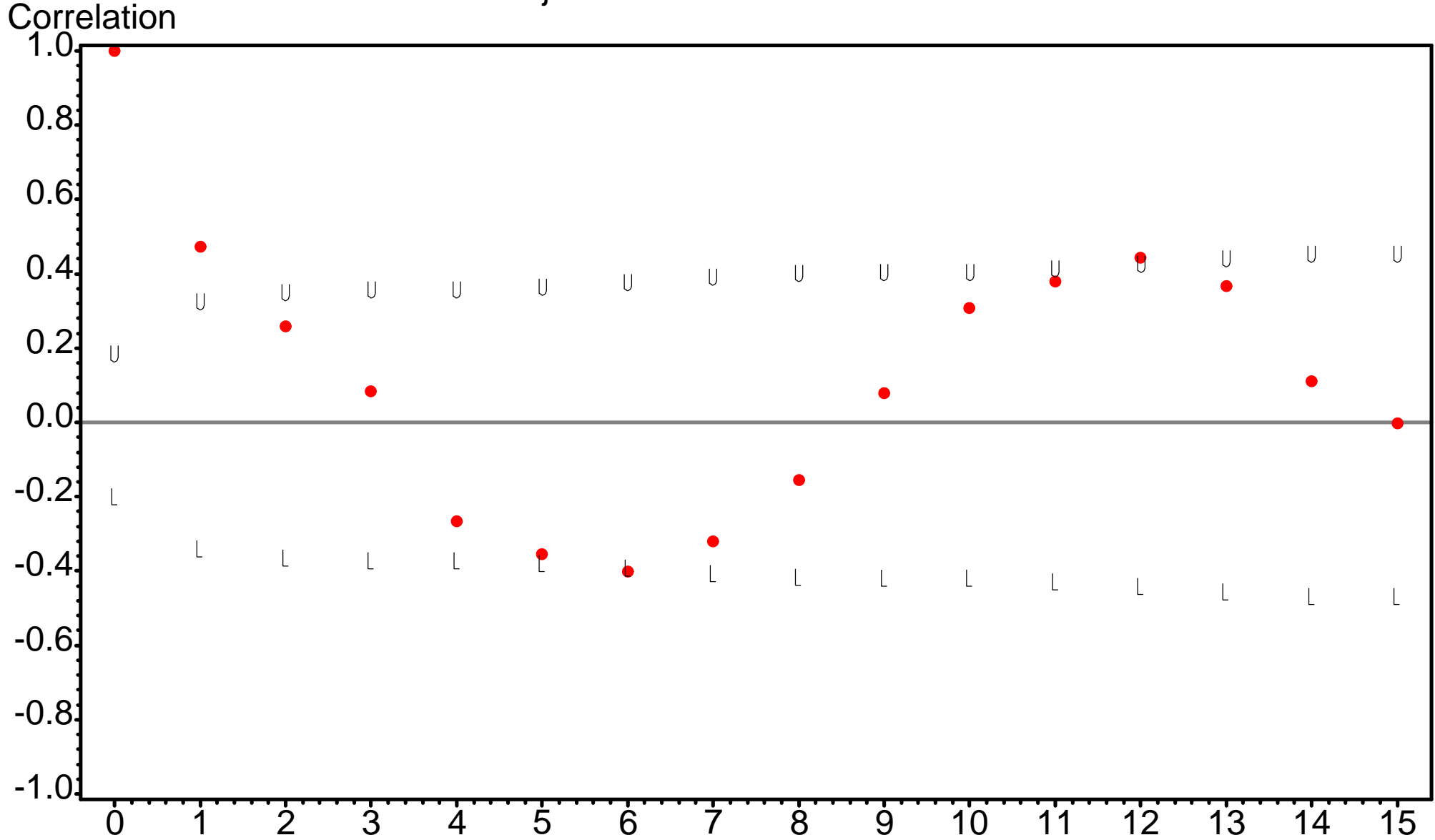
Upper Lemon Bay Trends Appendix - Display 2214
 Autocorrelation Statistics for Surface Dissolved Oxygen in Upper Lemon Bay

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.473	0.167	0.333	-0.333
2	0.259	0.179	0.357	-0.357
3	0.084	0.182	0.364	-0.364
4	-0.266	0.182	0.365	-0.365
5	-0.355	0.186	0.372	-0.372
6	-0.402	0.192	0.384	-0.384
7	-0.321	0.200	0.400	-0.400
8	-0.156	0.205	0.409	-0.409
9	0.078	0.206	0.411	-0.411
10	0.308	0.206	0.412	-0.412
11	0.380	0.210	0.420	-0.420
12	0.444	0.216	0.433	-0.433
13	0.366	0.225	0.449	-0.449
14	0.111	0.230	0.460	-0.460
15	-0.002	0.231	0.461	-0.461

Upper Lemon Bay Trends Appendix - Display 2215

Correlogram for Surface Dissolved Oxygen in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2216
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.12	0.069	0.069	-0.076

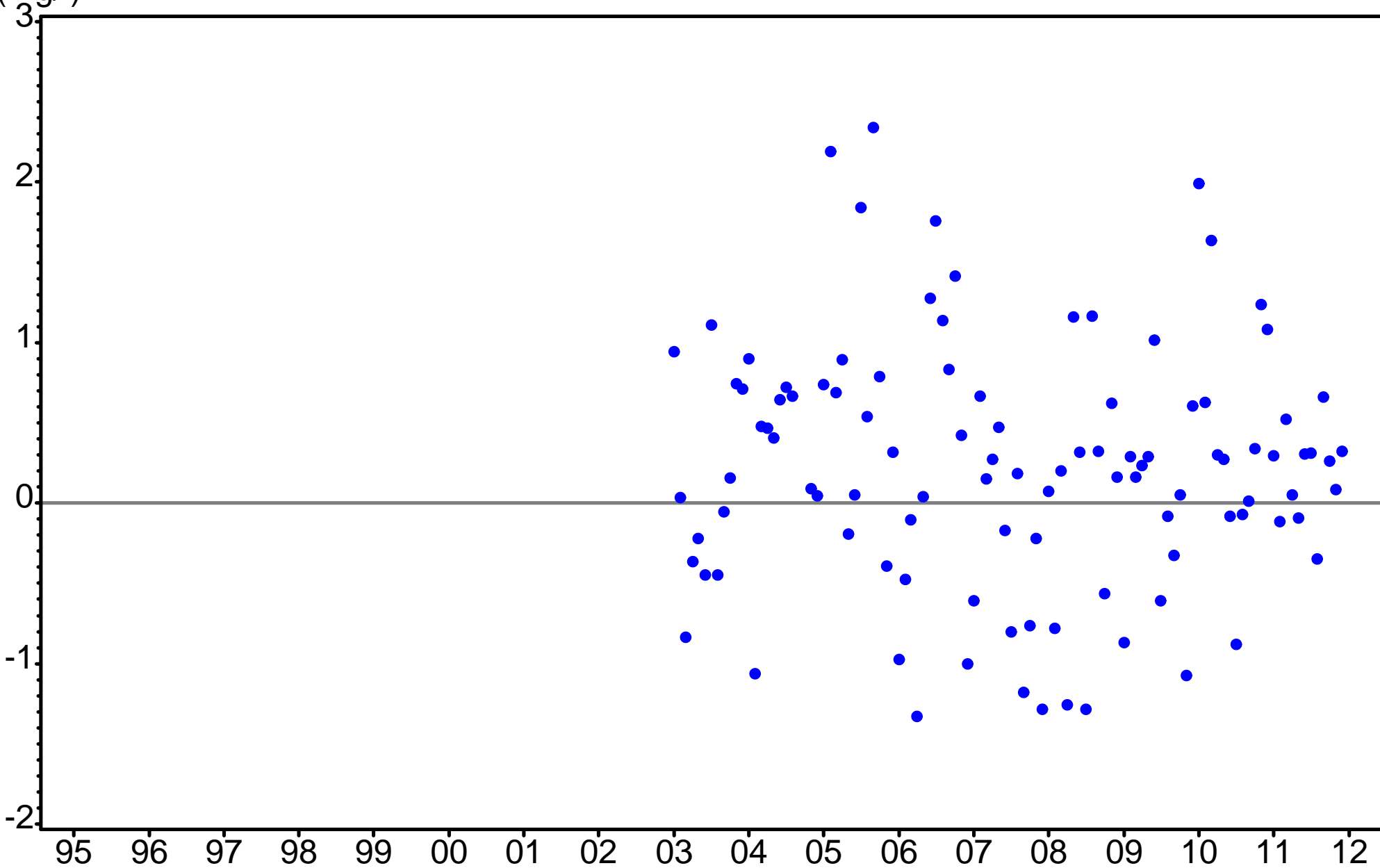
Upper Lemon Bay Trends Appendix - Display 2217
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.076923	0.33888	0.38918	-0.032524

Upper Lemon Bay Trends Appendix - Display 2218

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(mg/l)



Zero Reference Line Shown

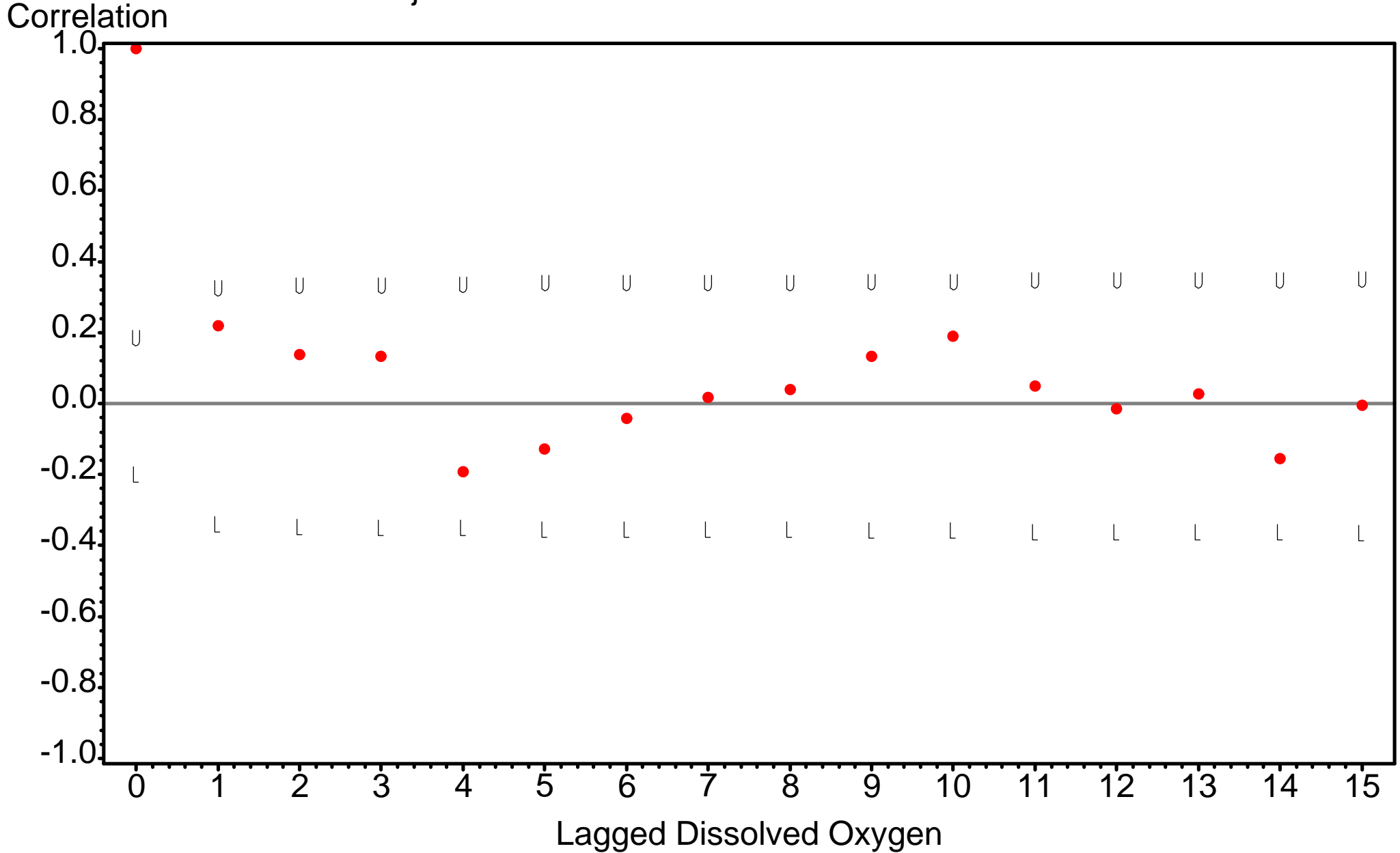
Upper Lemon Bay Trends Appendix - Display 2219
Autocorrelation Statistics for Surface Dissolved Oxygen in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.218	0.167	0.333	-0.333
2	0.137	0.169	0.339	-0.339
3	0.132	0.170	0.341	-0.341
4	-0.191	0.171	0.342	-0.342
5	-0.127	0.173	0.346	-0.346
6	-0.041	0.174	0.348	-0.348
7	0.018	0.174	0.348	-0.348
8	0.039	0.174	0.348	-0.348
9	0.134	0.174	0.349	-0.349
10	0.190	0.175	0.350	-0.350
11	0.050	0.177	0.354	-0.354
12	-0.015	0.177	0.354	-0.354
13	0.026	0.177	0.355	-0.355
14	-0.154	0.177	0.355	-0.355
15	-0.006	0.179	0.357	-0.357

Upper Lemon Bay Trends Appendix - Display 2220

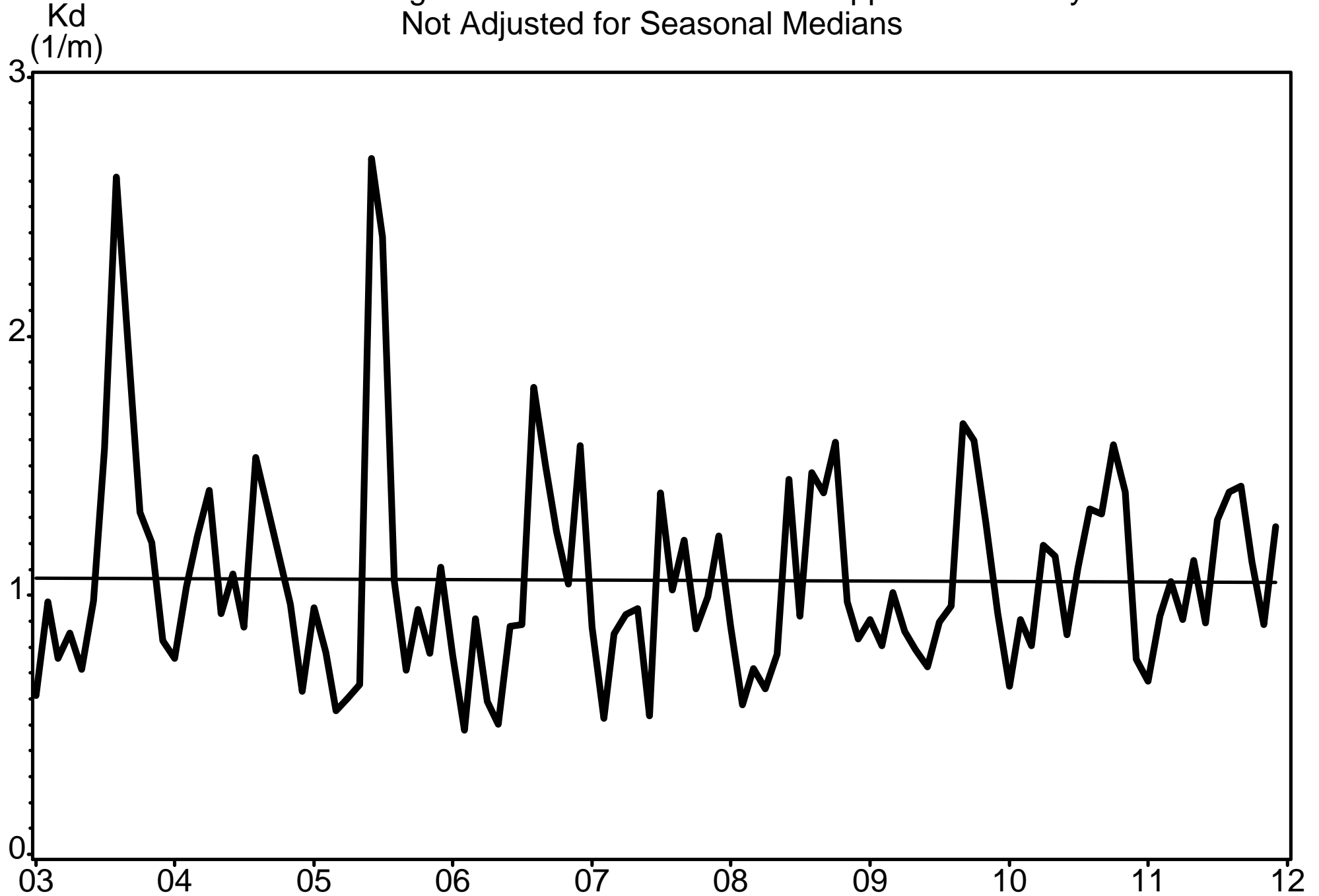
Correlogram for Surface Dissolved Oxygen in Upper Lemon Bay

Adjusted for Seasonal Median and Detrended



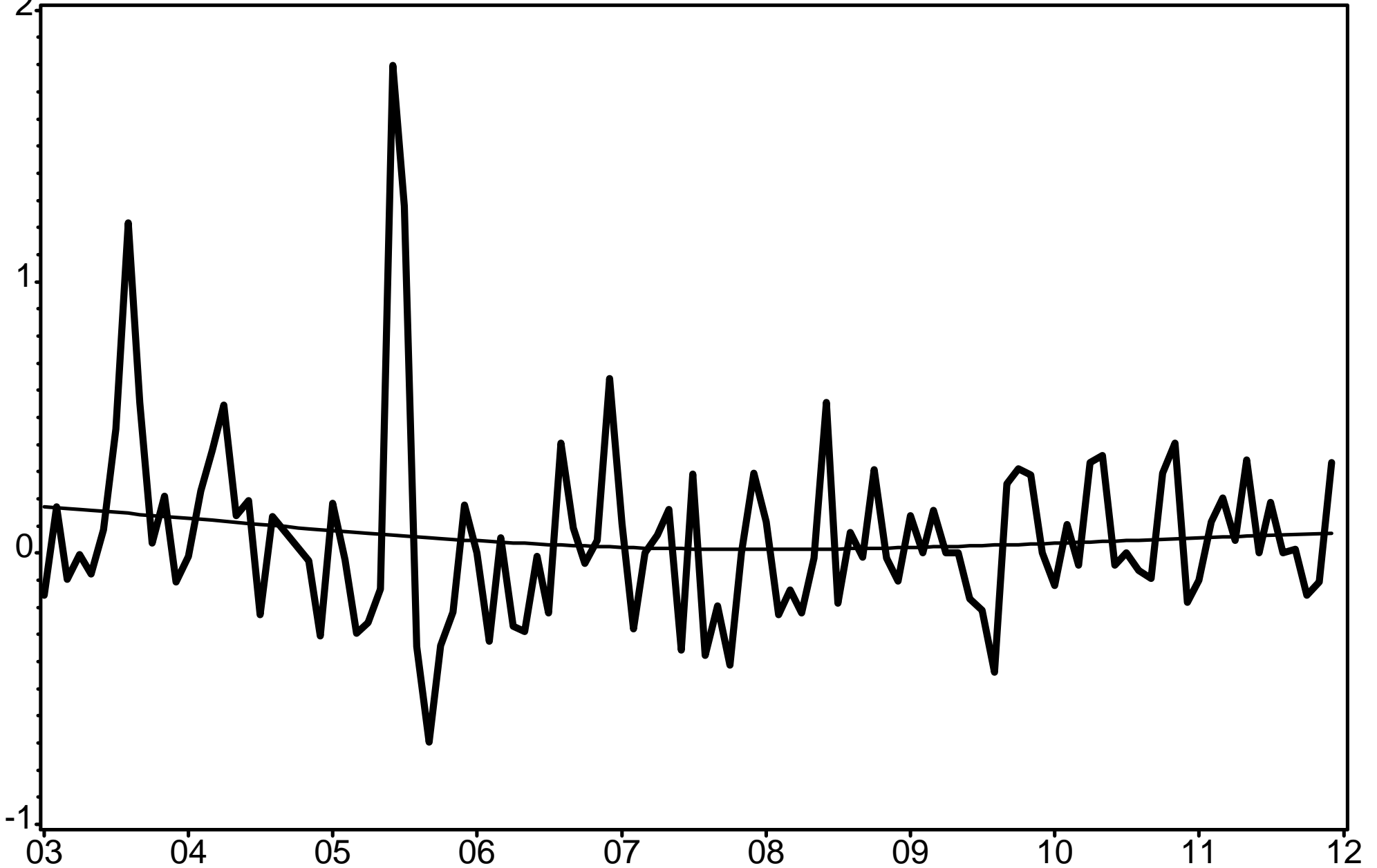
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2221
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Upper Lemon Bay
Not Adjusted for Seasonal Medians

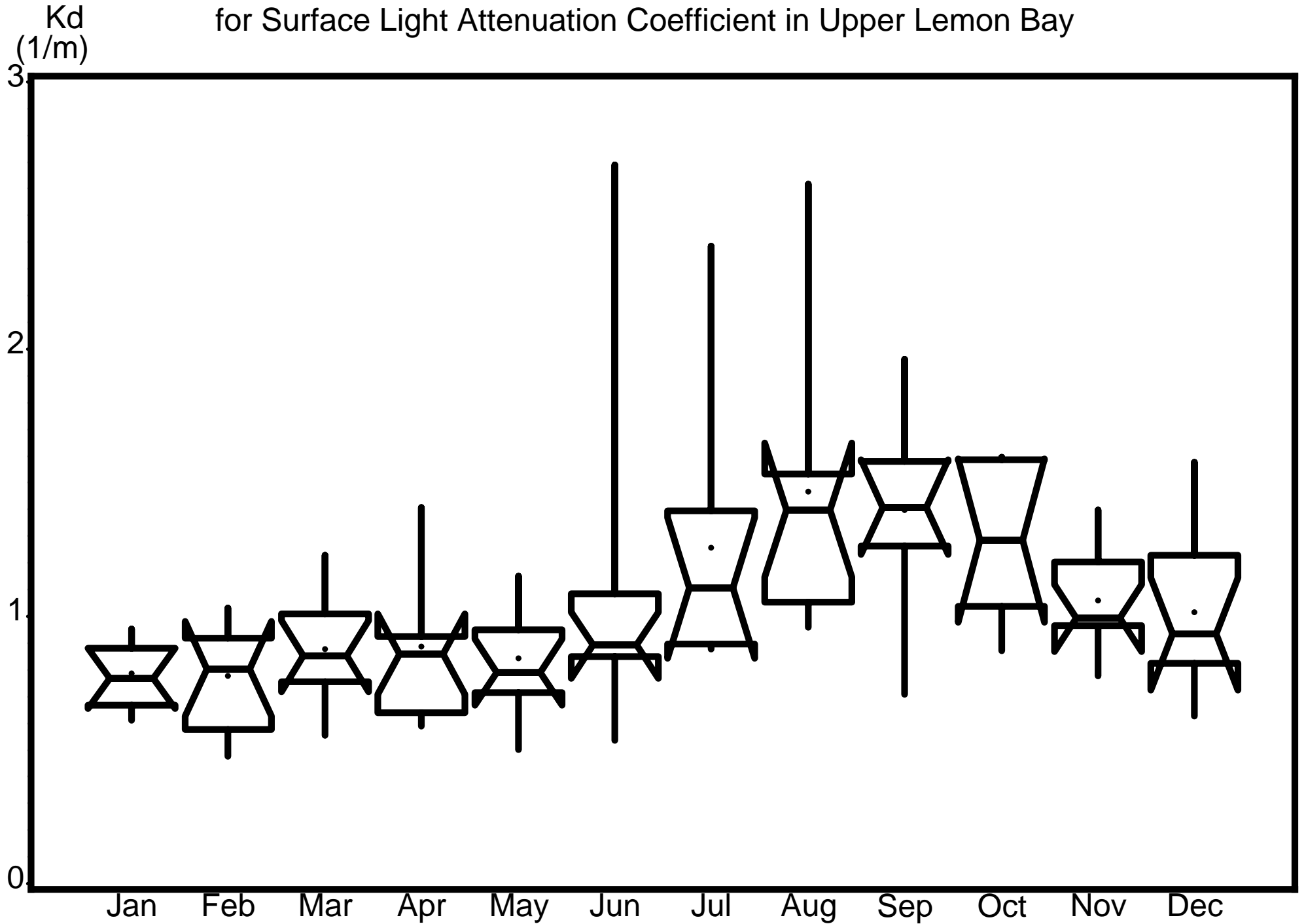


Upper Lemon Bay Trends Appendix - Display 2222
Monthly Data Time Series
for Surface Light Attenuation Coefficient in Upper Lemon Bay
Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



Upper Lemon Bay Trends Appendix - Display 2223
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in Upper Lemon Bay

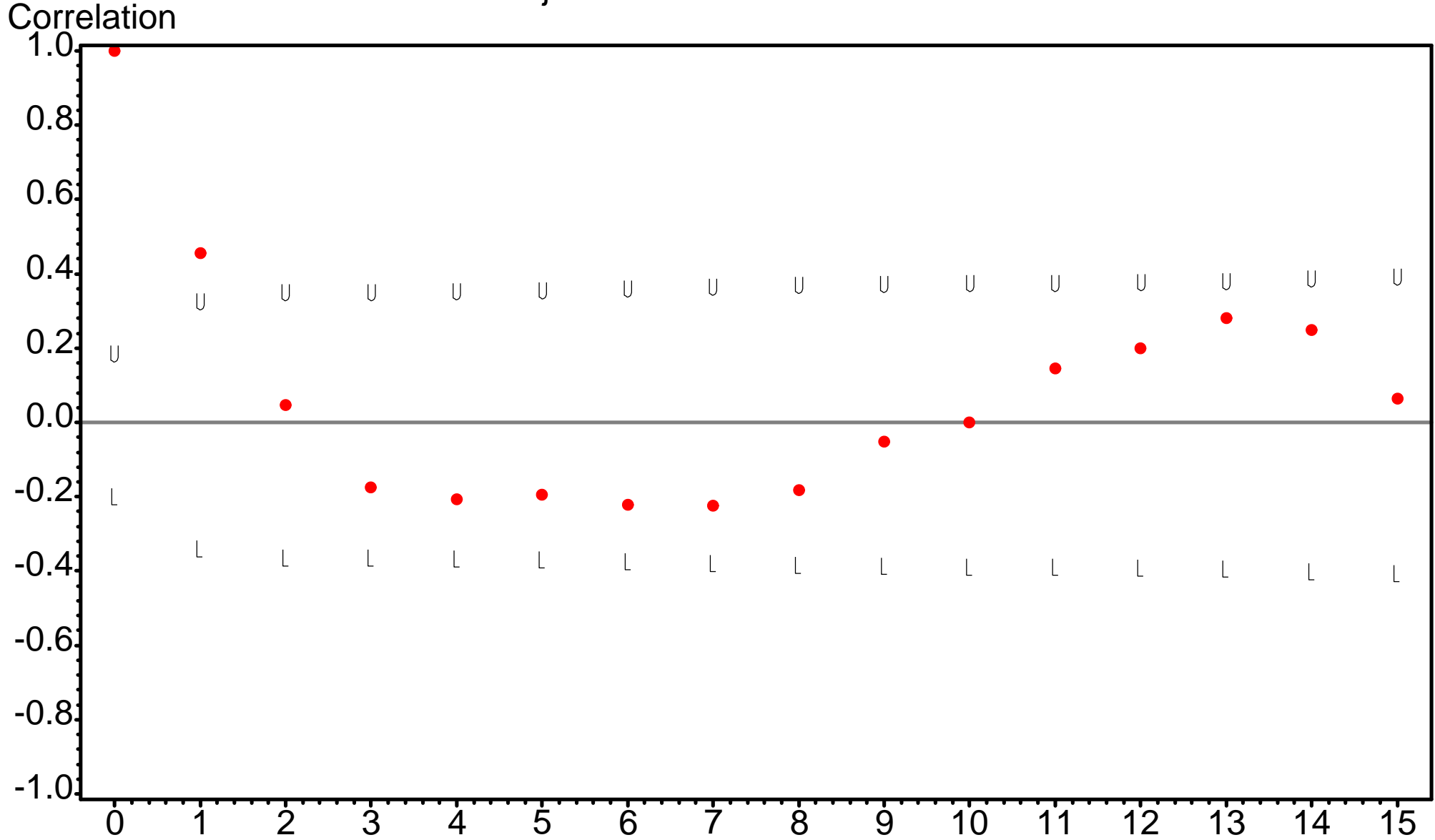


Upper Lemon Bay Trends Appendix - Display 2224
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Upper Lemon Bay

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.455	0.167	0.333	-0.333
2	0.047	0.178	0.356	-0.356
3	-0.176	0.178	0.356	-0.356
4	-0.208	0.180	0.359	-0.359
5	-0.195	0.182	0.363	-0.363
6	-0.221	0.184	0.367	-0.367
7	-0.224	0.186	0.372	-0.372
8	-0.183	0.189	0.377	-0.377
9	-0.051	0.190	0.380	-0.380
10	0.000	0.190	0.381	-0.381
11	0.145	0.190	0.381	-0.381
12	0.200	0.191	0.383	-0.383
13	0.280	0.193	0.387	-0.387
14	0.249	0.197	0.394	-0.394
15	0.064	0.200	0.400	-0.400

Upper Lemon Bay Trends Appendix - Display 2225

Correlogram for Surface Light Attenuation Coefficient in Upper Lemon Bay Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2226
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Upper Lemon Bay
Unadjusted for Seasonal Medians

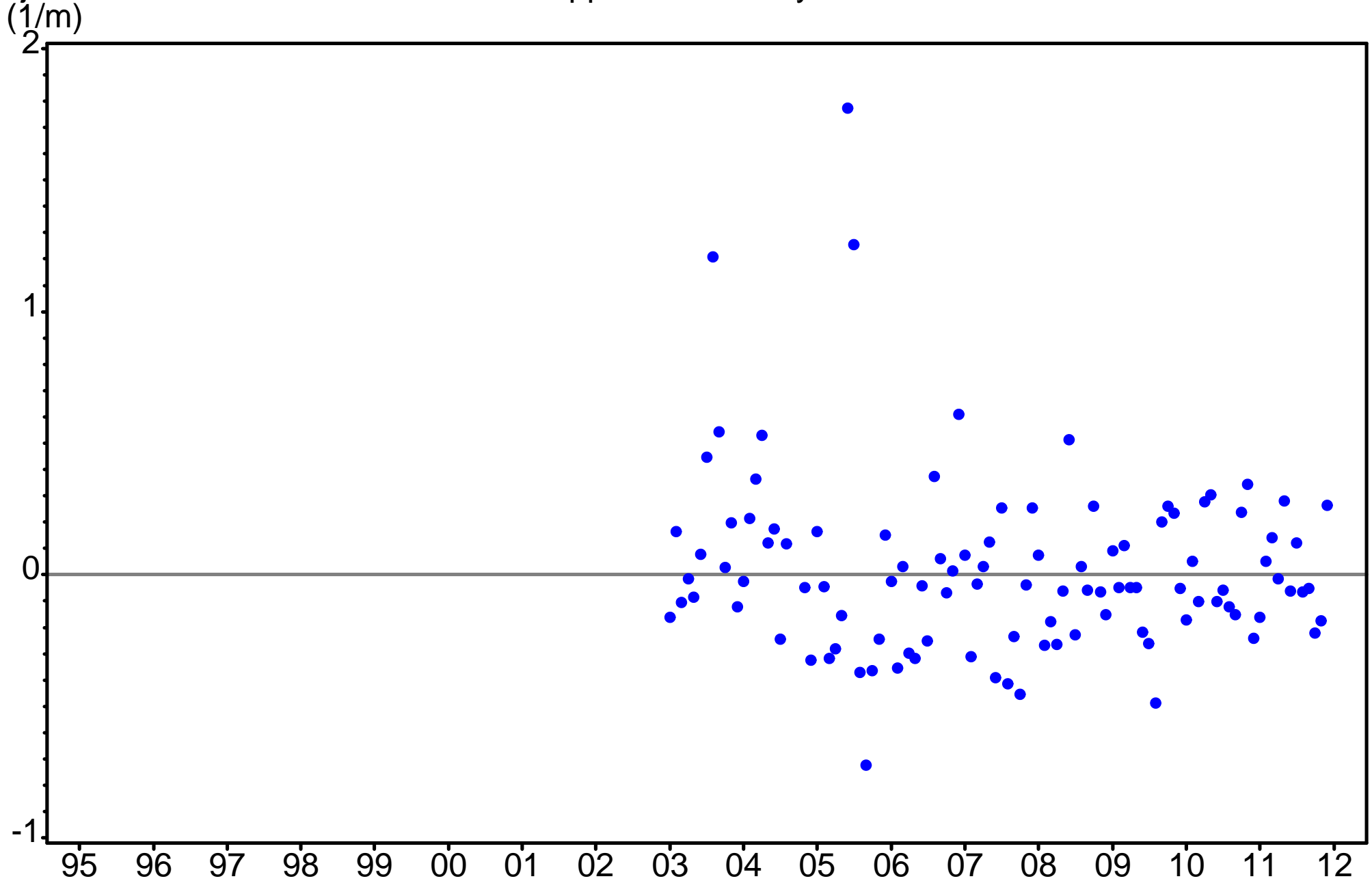
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.075	0.258	0.258	0.013

Upper Lemon Bay Trends Appendix - Display 2227
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.0625	0.44055	0.29248	.00675

Upper Lemon Bay Trends Appendix - Display 2228

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted
Upper Lemon Bay



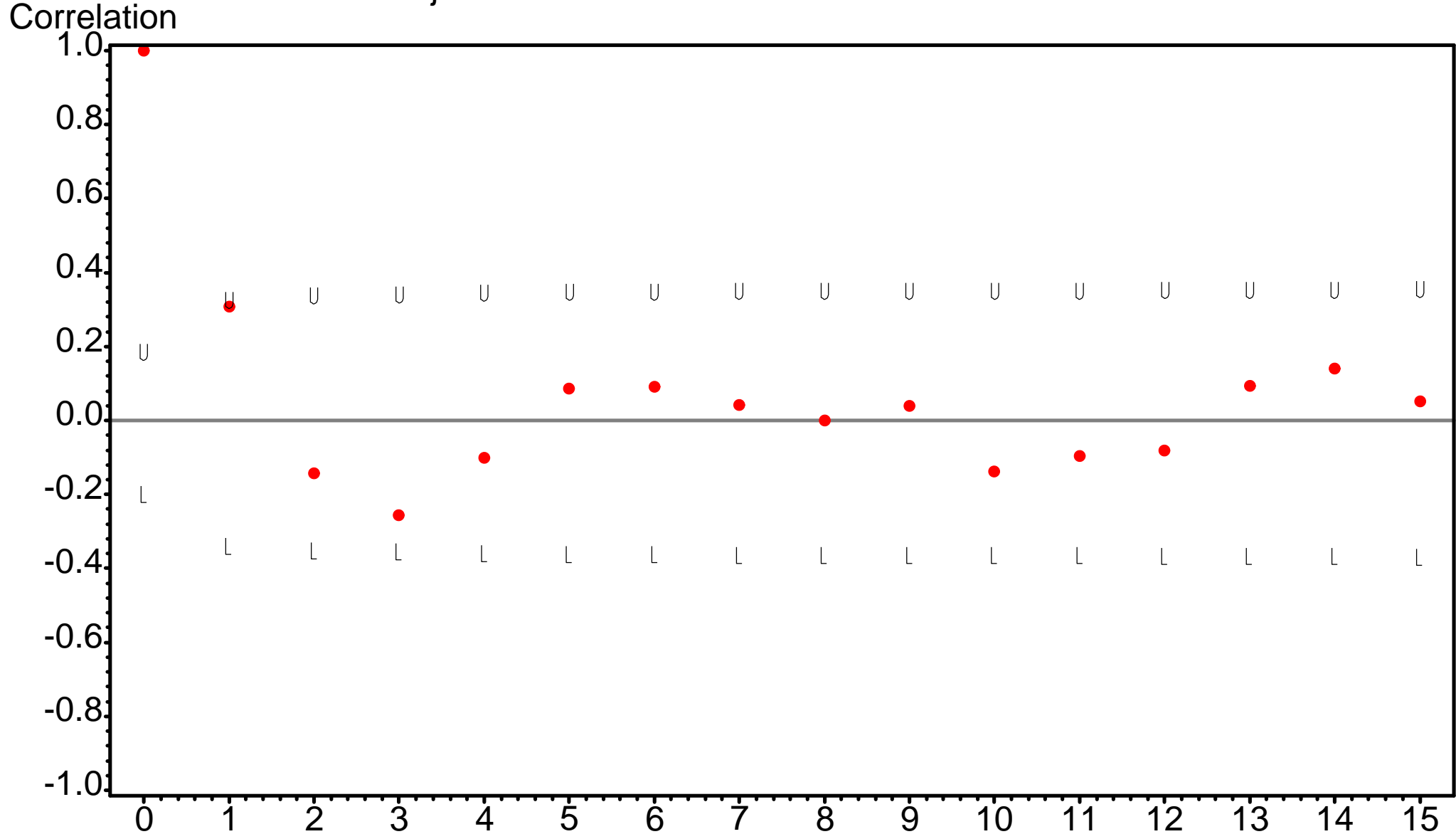
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2229
Autocorrelation Statistics for Surface Light Attenuation Coefficient in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.307	0.167	0.333	-0.333
2	-0.143	0.172	0.344	-0.344
3	-0.257	0.173	0.346	-0.346
4	-0.101	0.176	0.353	-0.353
5	0.085	0.177	0.354	-0.354
6	0.092	0.177	0.355	-0.355
7	0.042	0.178	0.356	-0.356
8	0.000	0.178	0.356	-0.356
9	0.040	0.178	0.356	-0.356
10	-0.139	0.178	0.356	-0.356
11	-0.096	0.179	0.358	-0.358
12	-0.082	0.179	0.359	-0.359
13	0.093	0.180	0.360	-0.360
14	0.140	0.180	0.360	-0.360
15	0.052	0.181	0.362	-0.362

Upper Lemon Bay Trends Appendix - Display 2230

Correlogram for Surface Light Attenuation Coefficient in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

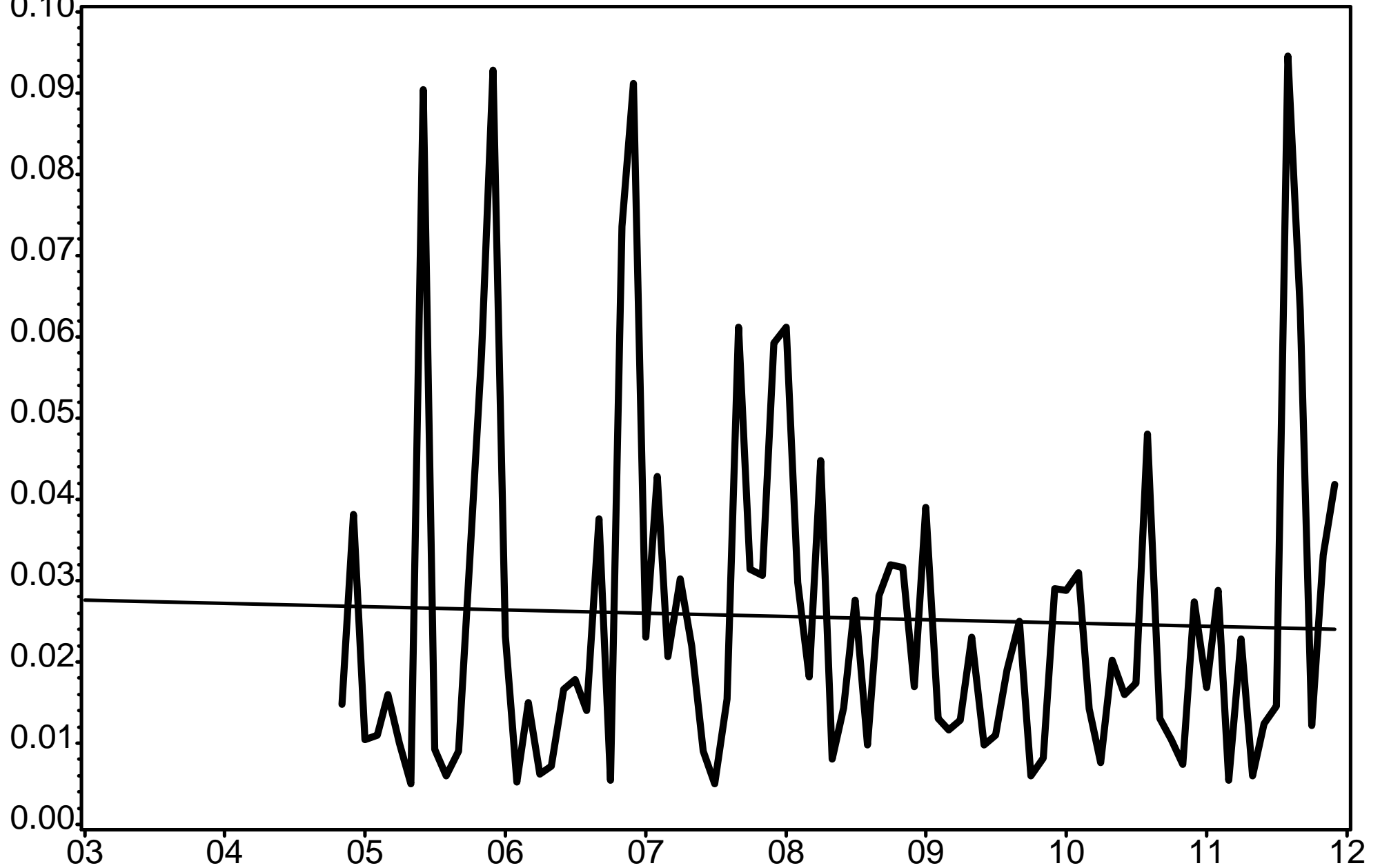
Upper Lemon Bay Trends Appendix - Display 2231

Monthly Data Time Series

for Surface Ammonia as N Total in Upper Lemon Bay

Not Adjusted for Seasonal Medians

NH₃_mgl
(mg/l)



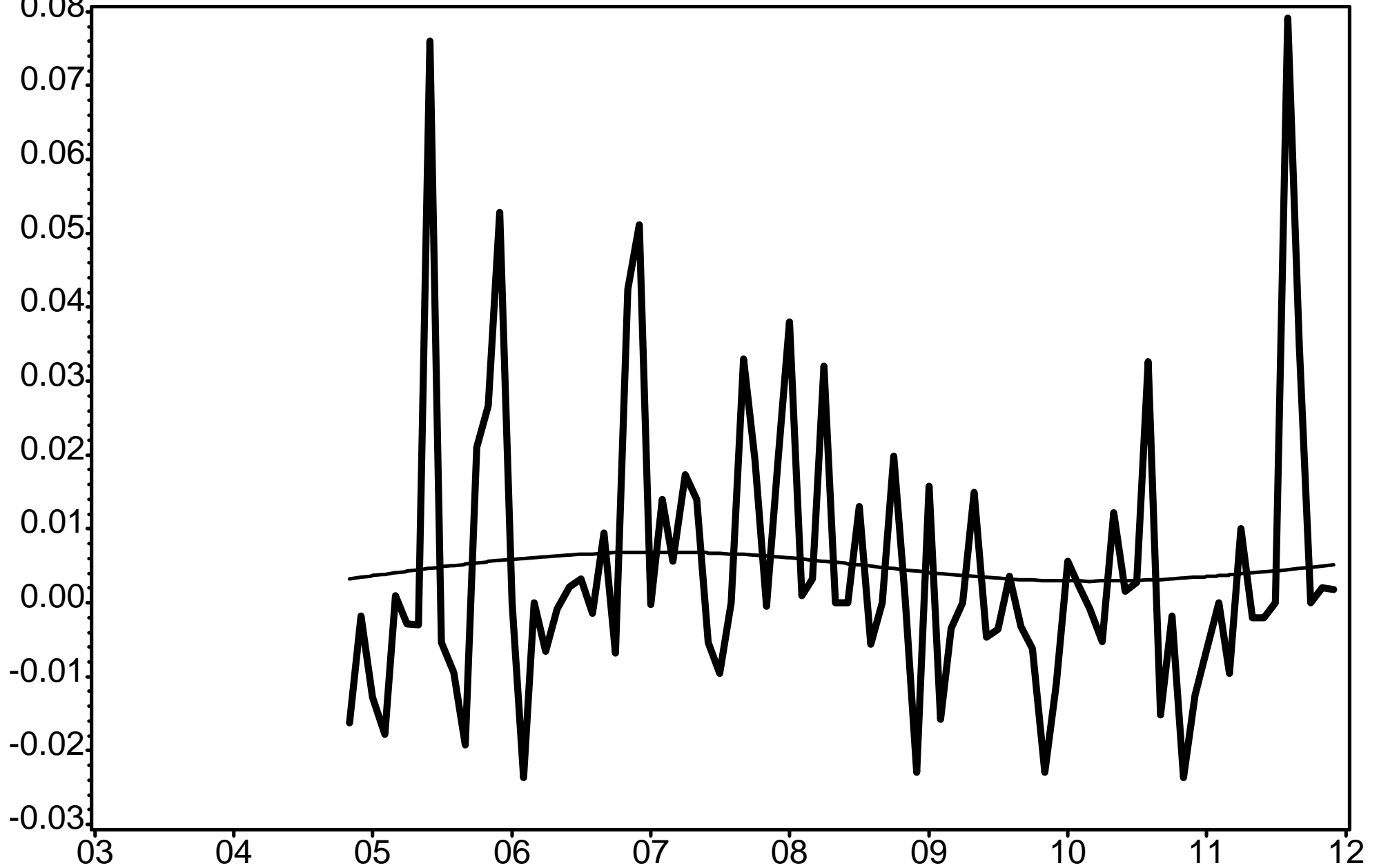
Upper Lemon Bay Trends Appendix - Display 2232

Monthly Data Time Series

for Surface Ammonia as N Total in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
NH₃_mg/l
(mg/l)

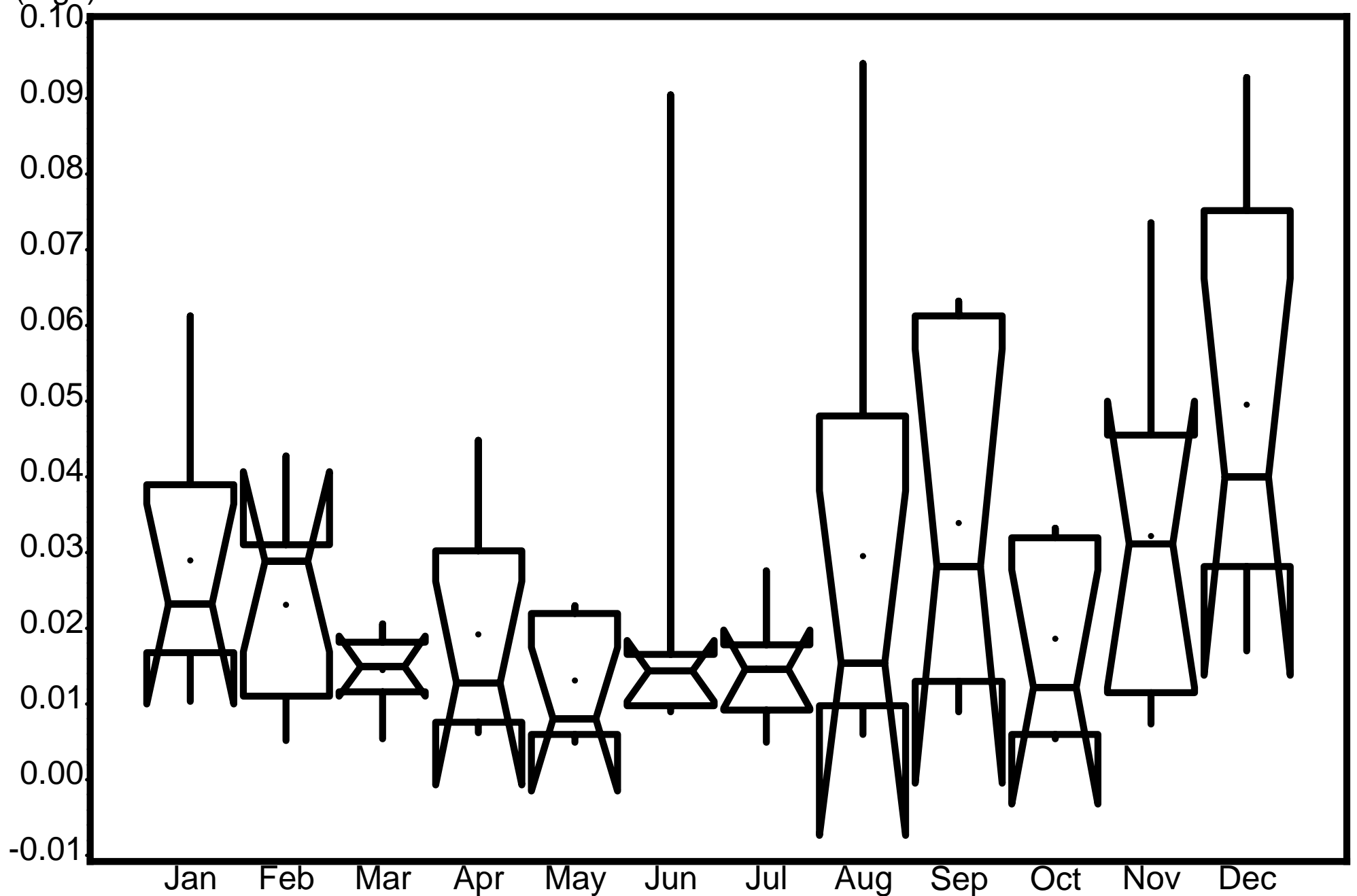


Upper Lemon Bay Trends Appendix - Display 2233

Seasonal Univariate Statistics

for Surface Ammonia as N Total in Upper Lemon Bay

NH₃_mgl
(mg/l)



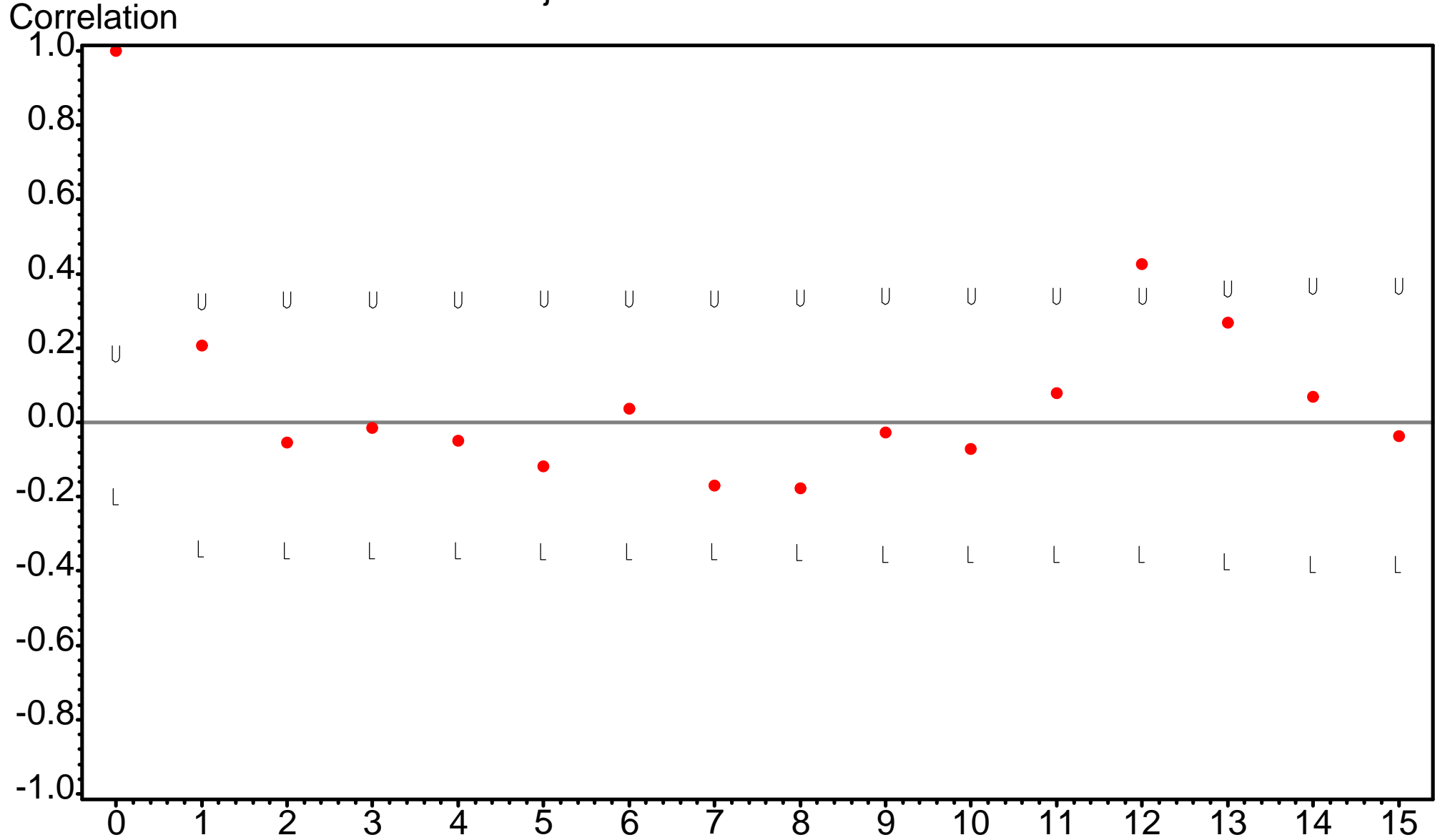
Upper Lemon Bay Trends Appendix - Display 2234
Autocorrelation Statistics for Surface Ammonia as N Total in Upper Lemon Bay

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.207	0.167	0.333	-0.333
2	-0.055	0.169	0.338	-0.338
3	-0.014	0.169	0.338	-0.338
4	-0.049	0.169	0.338	-0.338
5	-0.117	0.169	0.339	-0.339
6	0.036	0.170	0.340	-0.340
7	-0.169	0.170	0.340	-0.340
8	-0.178	0.172	0.343	-0.343
9	-0.027	0.173	0.347	-0.347
10	-0.071	0.173	0.347	-0.347
11	0.079	0.174	0.347	-0.347
12	0.427	0.174	0.348	-0.348
13	0.269	0.184	0.367	-0.367
14	0.068	0.187	0.374	-0.374
15	-0.036	0.187	0.375	-0.375

Upper Lemon Bay Trends Appendix - Display 2235

Correlogram for Surface Ammonia as N Total in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2236
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.015	0.837	0.837	0

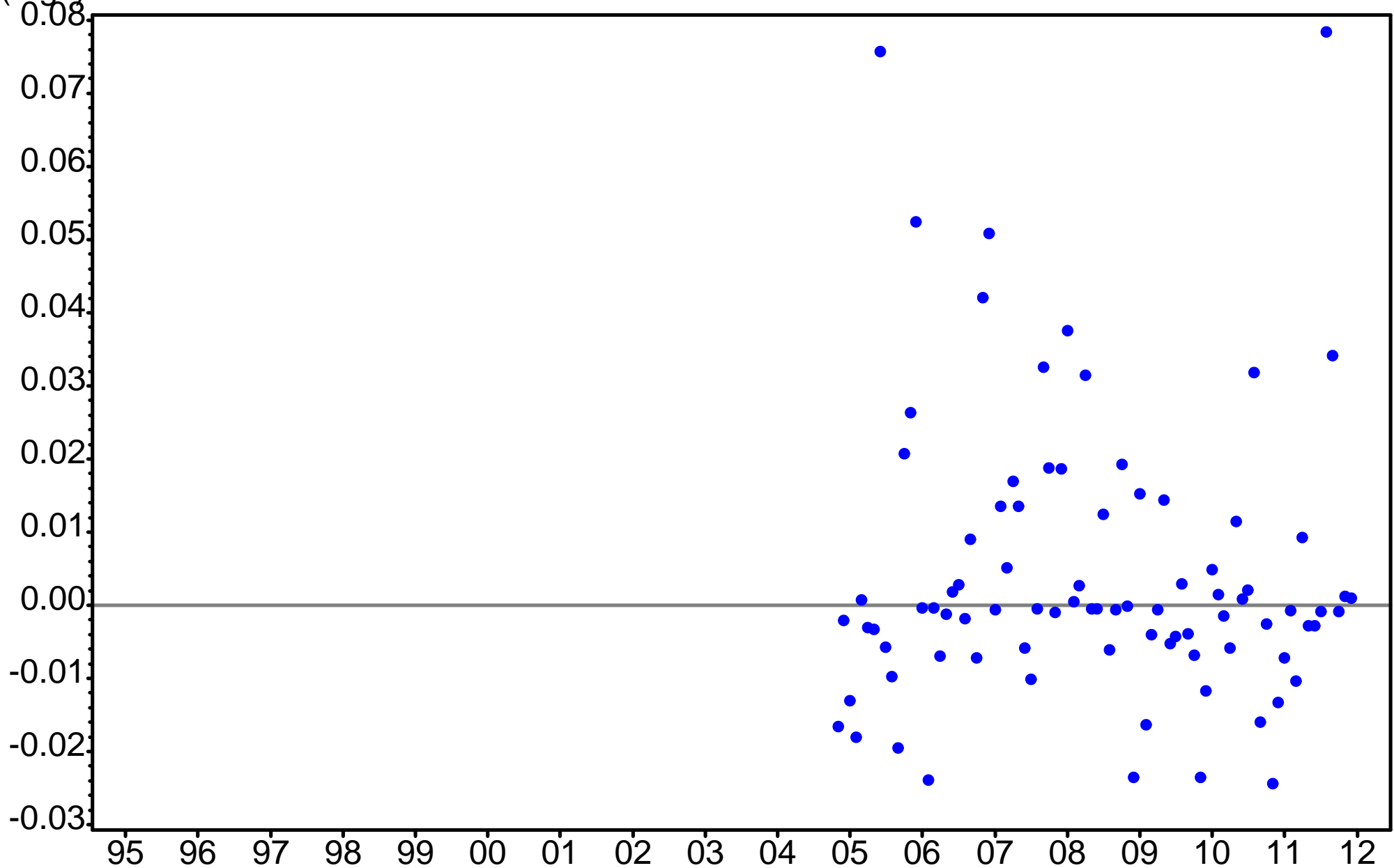
Upper Lemon Bay Trends Appendix - Display 2237
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.015038	0.90000	0.87705	.000083333

Upper Lemon Bay Trends Appendix - Display 2238

Time Series Plot of Surface Ammonia as N Total Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(mg/l)



Zero Reference Line Shown

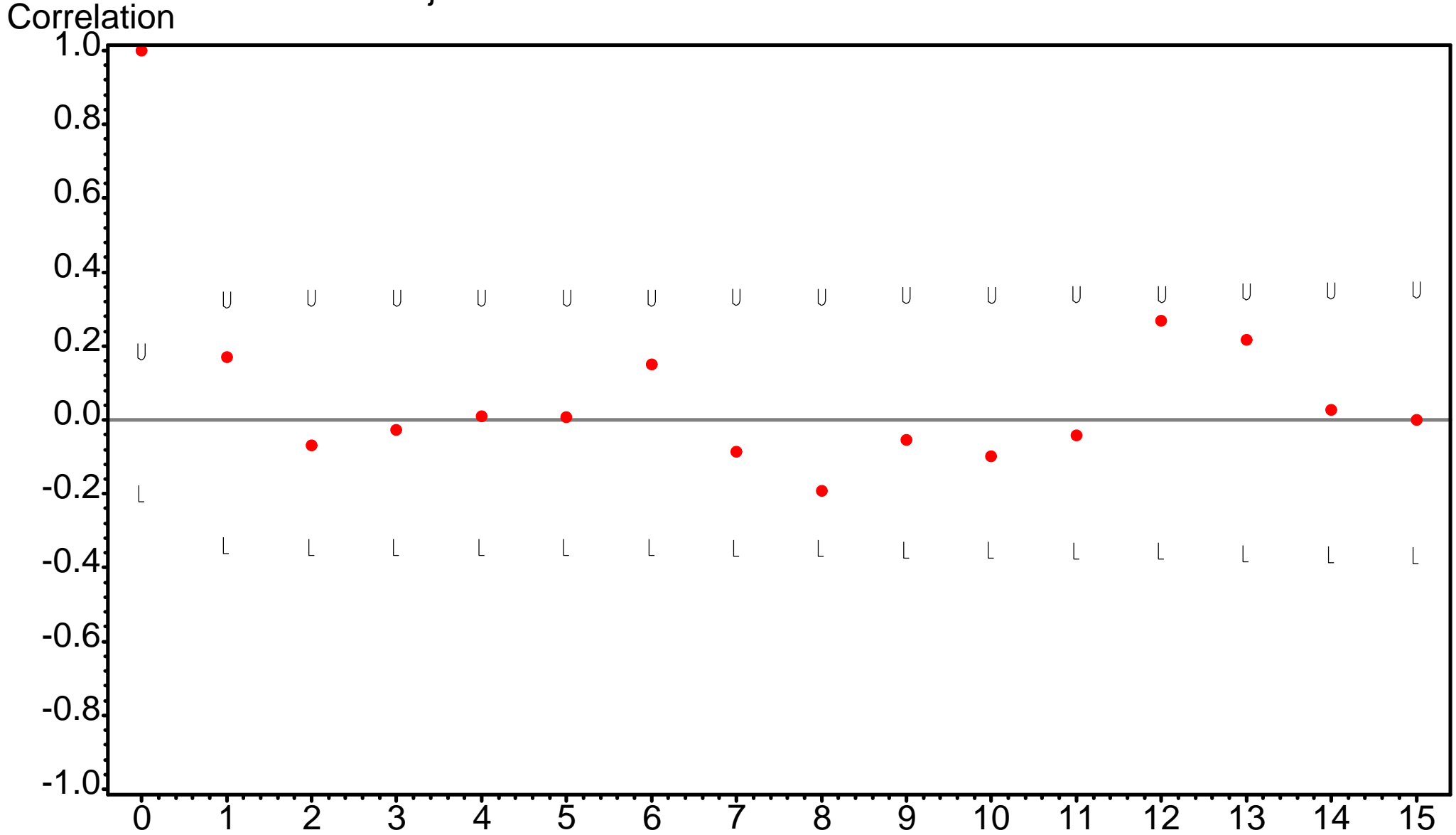
Upper Lemon Bay Trends Appendix - Display 2239
Autocorrelation Statistics for Surface Ammonia as N Total in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.170	0.167	0.333	-0.333
2	-0.068	0.168	0.337	-0.337
3	-0.028	0.169	0.337	-0.337
4	0.011	0.169	0.337	-0.337
5	0.007	0.169	0.337	-0.337
6	0.151	0.169	0.337	-0.337
7	-0.085	0.170	0.340	-0.340
8	-0.192	0.170	0.340	-0.340
9	-0.054	0.172	0.344	-0.344
10	-0.098	0.172	0.345	-0.345
11	-0.042	0.173	0.346	-0.346
12	0.268	0.173	0.346	-0.346
13	0.217	0.177	0.354	-0.354
14	0.028	0.179	0.358	-0.358
15	-0.001	0.179	0.359	-0.359

Upper Lemon Bay Trends Appendix - Display 2240

Correlogram for Surface Ammonia as N Total in Upper Lemon Bay

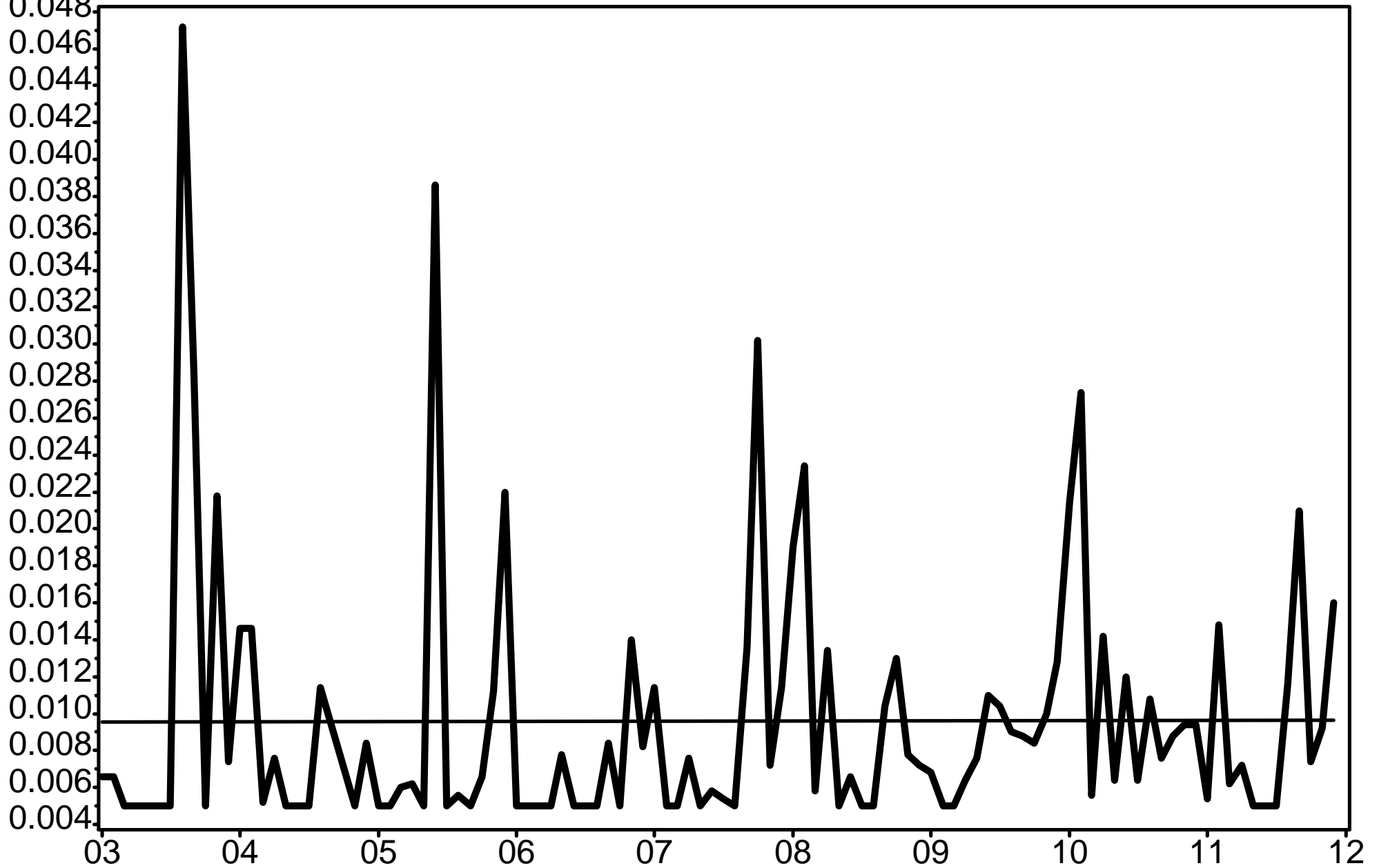
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2241
Monthly Data Time Series
for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay
Not Adjusted for Seasonal Medians

NO23_mgl
(mg/l)



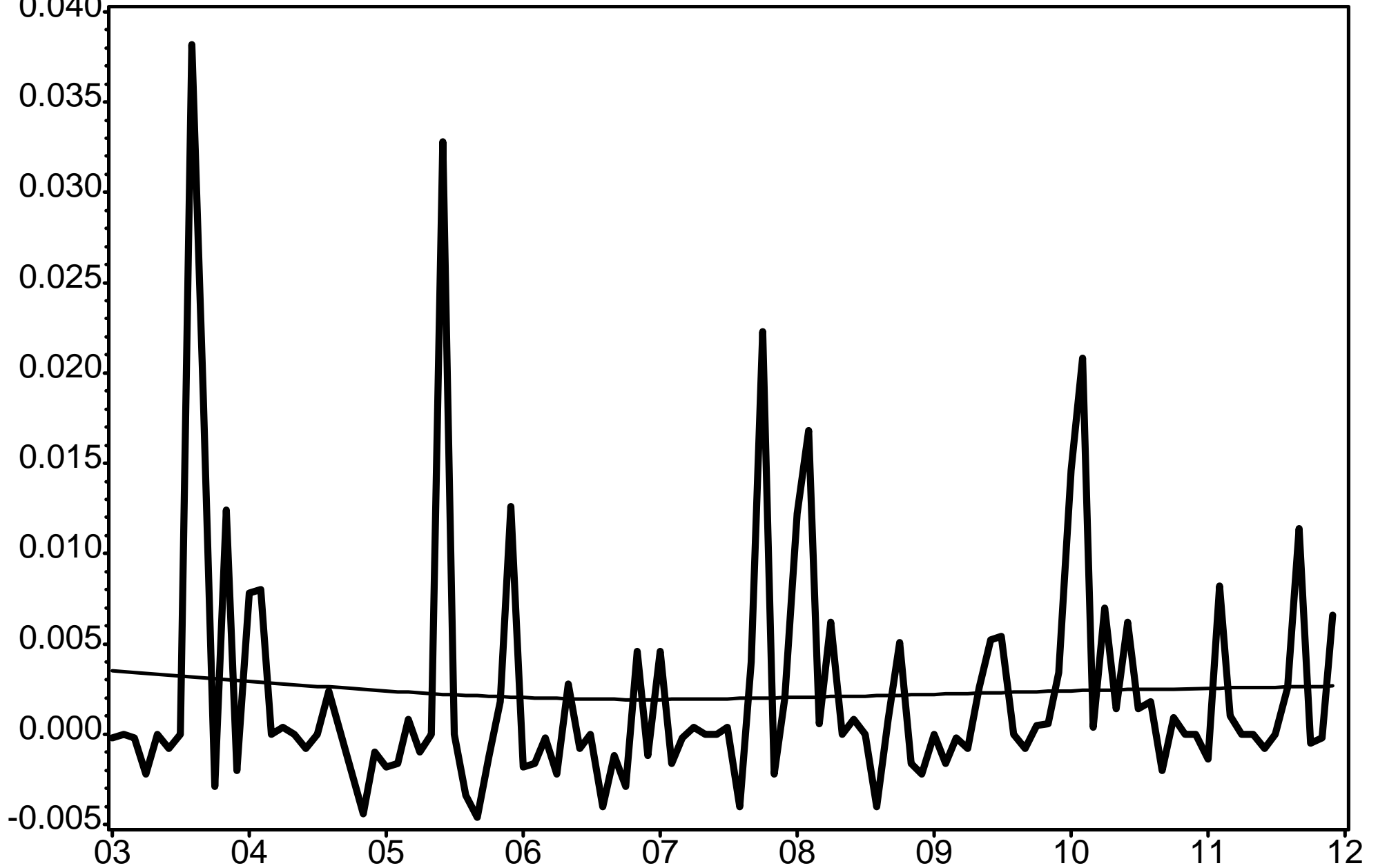
Upper Lemon Bay Trends Appendix - Display 2242

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

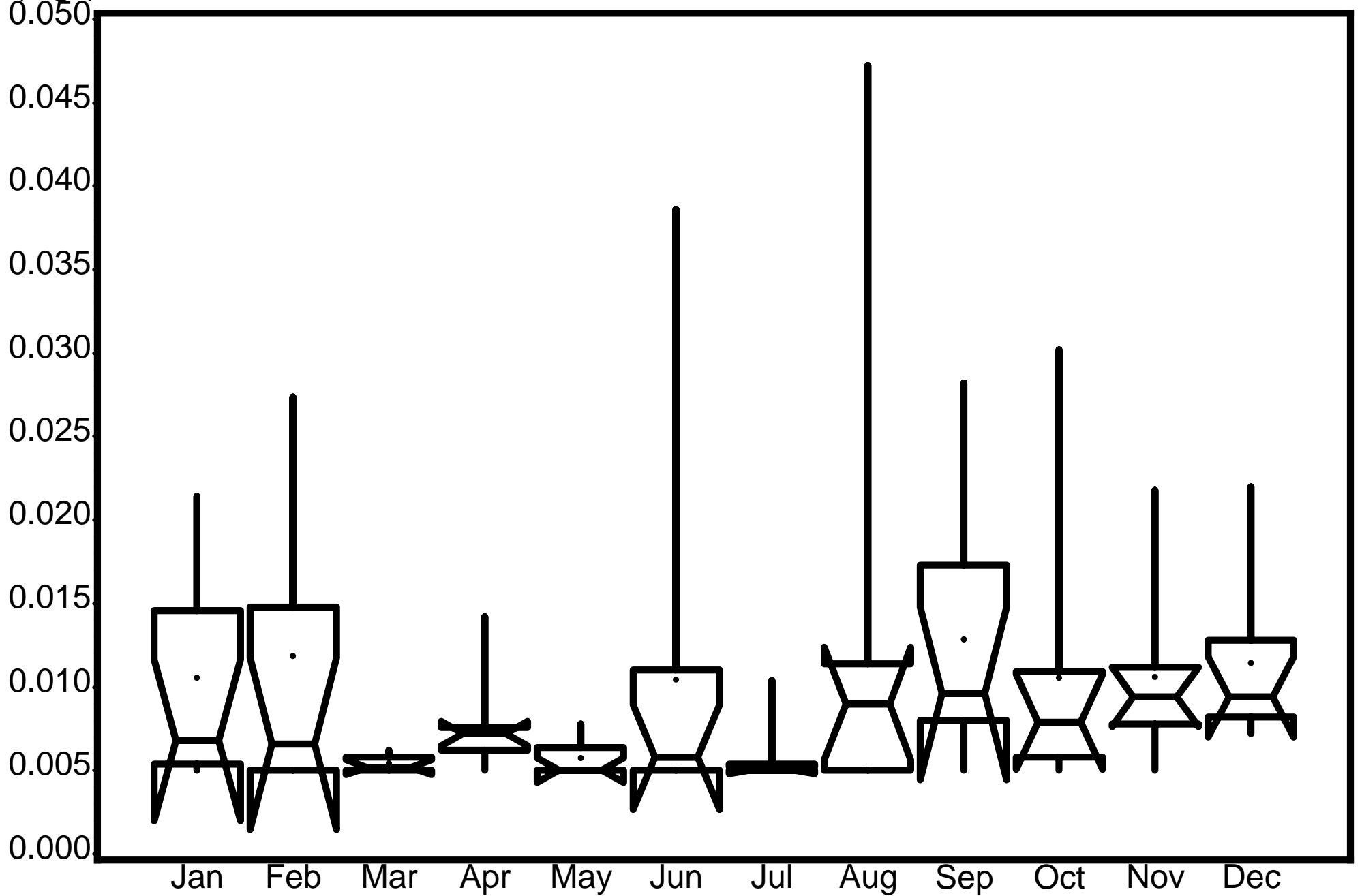


Upper Lemon Bay Trends Appendix - Display 2243

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay

NO23_mgl
(mg/l)



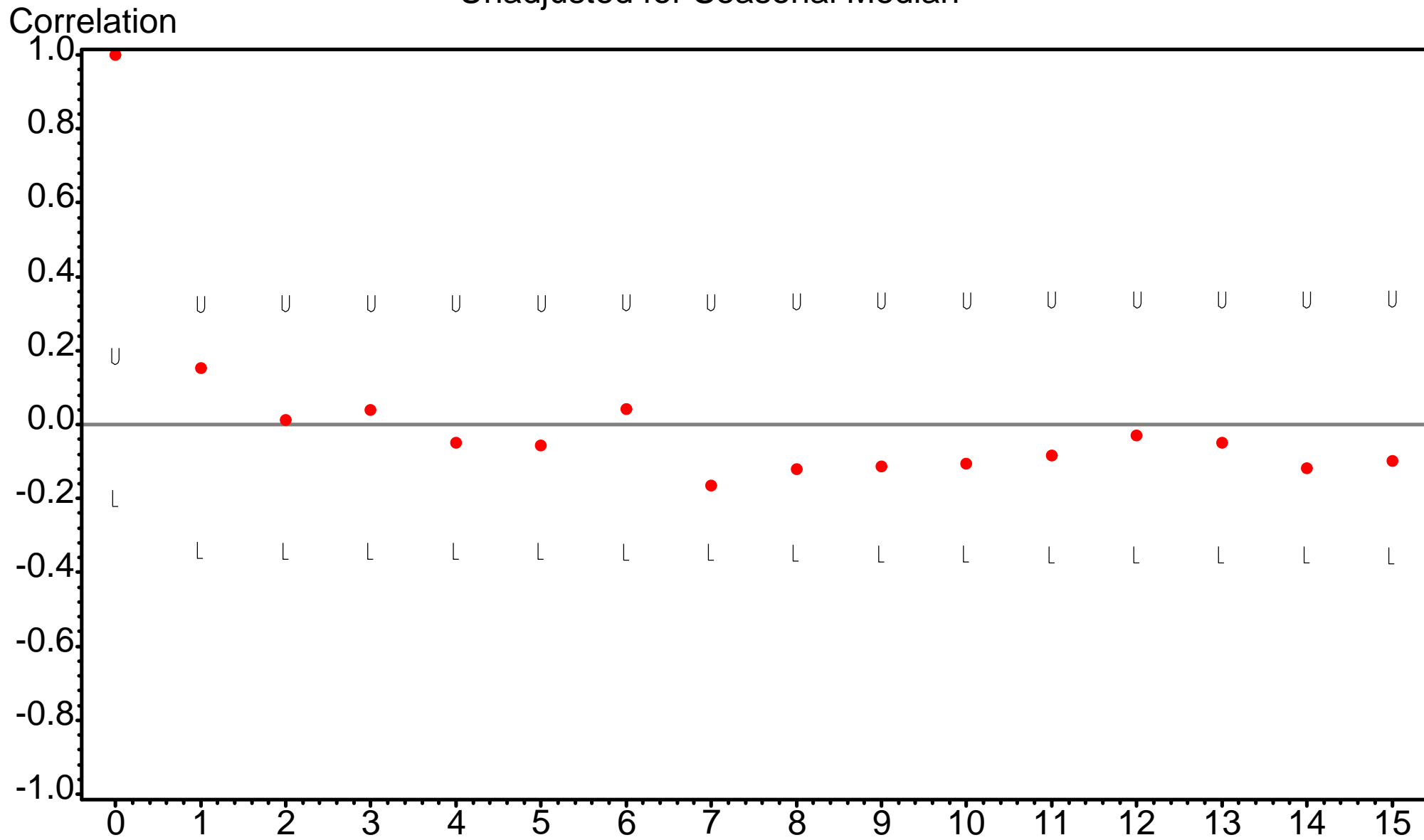
Upper Lemon Bay Trends Appendix - Display 2244

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.153	0.167	0.333	-0.333
2	0.012	0.168	0.336	-0.336
3	0.039	0.168	0.336	-0.336
4	-0.049	0.168	0.336	-0.336
5	-0.057	0.168	0.336	-0.336
6	0.043	0.168	0.337	-0.337
7	-0.166	0.168	0.337	-0.337
8	-0.121	0.170	0.340	-0.340
9	-0.112	0.171	0.342	-0.342
10	-0.105	0.171	0.343	-0.343
11	-0.084	0.172	0.344	-0.344
12	-0.029	0.172	0.345	-0.345
13	-0.048	0.172	0.345	-0.345
14	-0.117	0.173	0.345	-0.345
15	-0.099	0.173	0.347	-0.347

Upper Lemon Bay Trends Appendix - Display 2245

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2246
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay
Unadjusted for Seasonal Medians

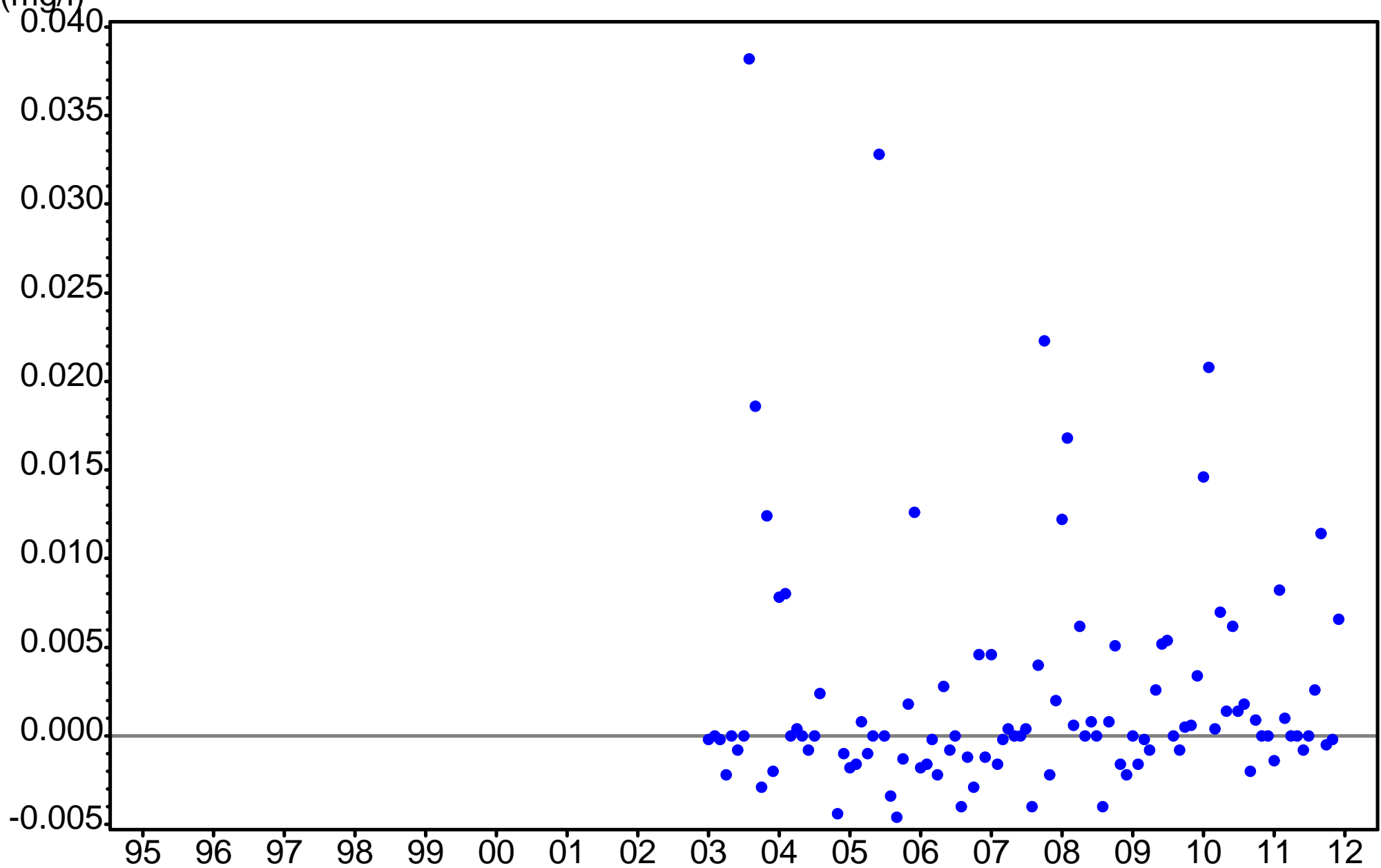
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.159	0.013	0.013	0

Upper Lemon Bay Trends Appendix - Display 2247
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.16827	0.021982	0.044814	0

Upper Lemon Bay Trends Appendix - Display 2248

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted
(mg/l)
Upper Lemon Bay



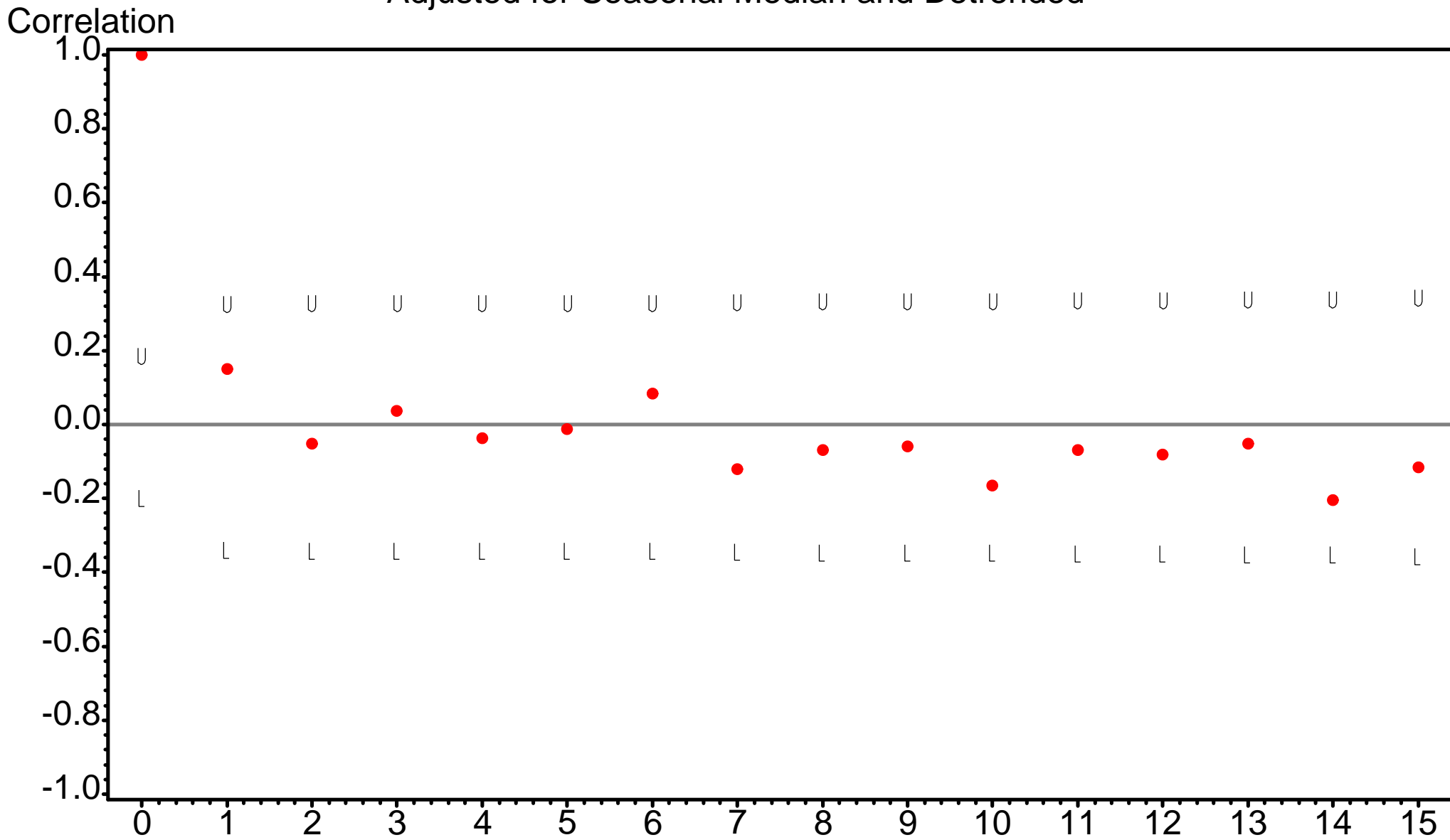
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2249
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.149	0.167	0.333	-0.333
2	-0.052	0.168	0.336	-0.336
3	0.037	0.168	0.336	-0.336
4	-0.037	0.168	0.336	-0.336
5	-0.012	0.168	0.336	-0.336
6	0.083	0.168	0.336	-0.336
7	-0.120	0.169	0.337	-0.337
8	-0.069	0.169	0.339	-0.339
9	-0.058	0.170	0.339	-0.339
10	-0.165	0.170	0.340	-0.340
11	-0.068	0.171	0.343	-0.343
12	-0.081	0.172	0.343	-0.343
13	-0.052	0.172	0.344	-0.344
14	-0.205	0.172	0.344	-0.344
15	-0.116	0.174	0.349	-0.349

Upper Lemon Bay Trends Appendix - Display 2250

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in Upper Lemon Bay Adjusted for Seasonal Median and Detrended

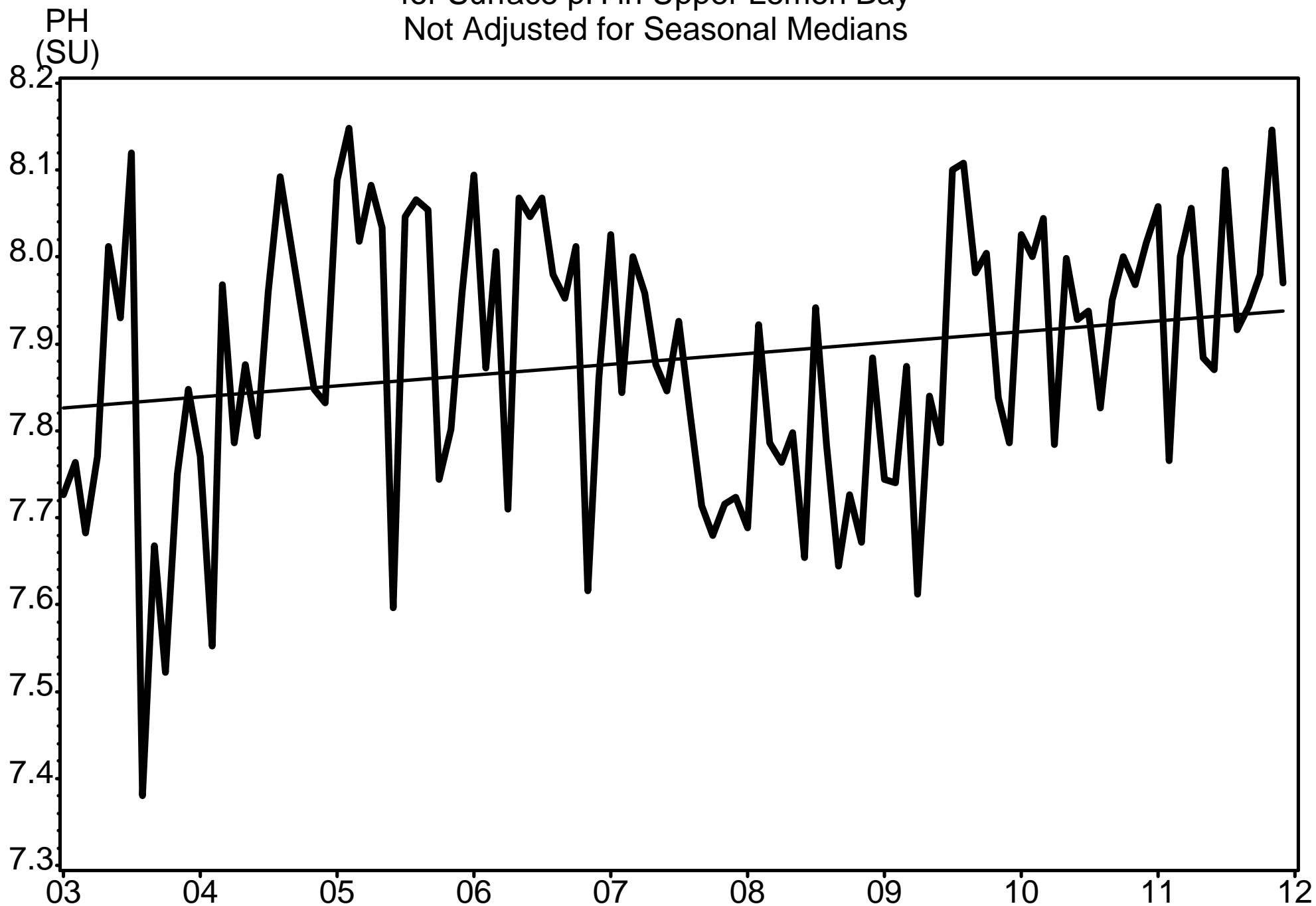


Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2251

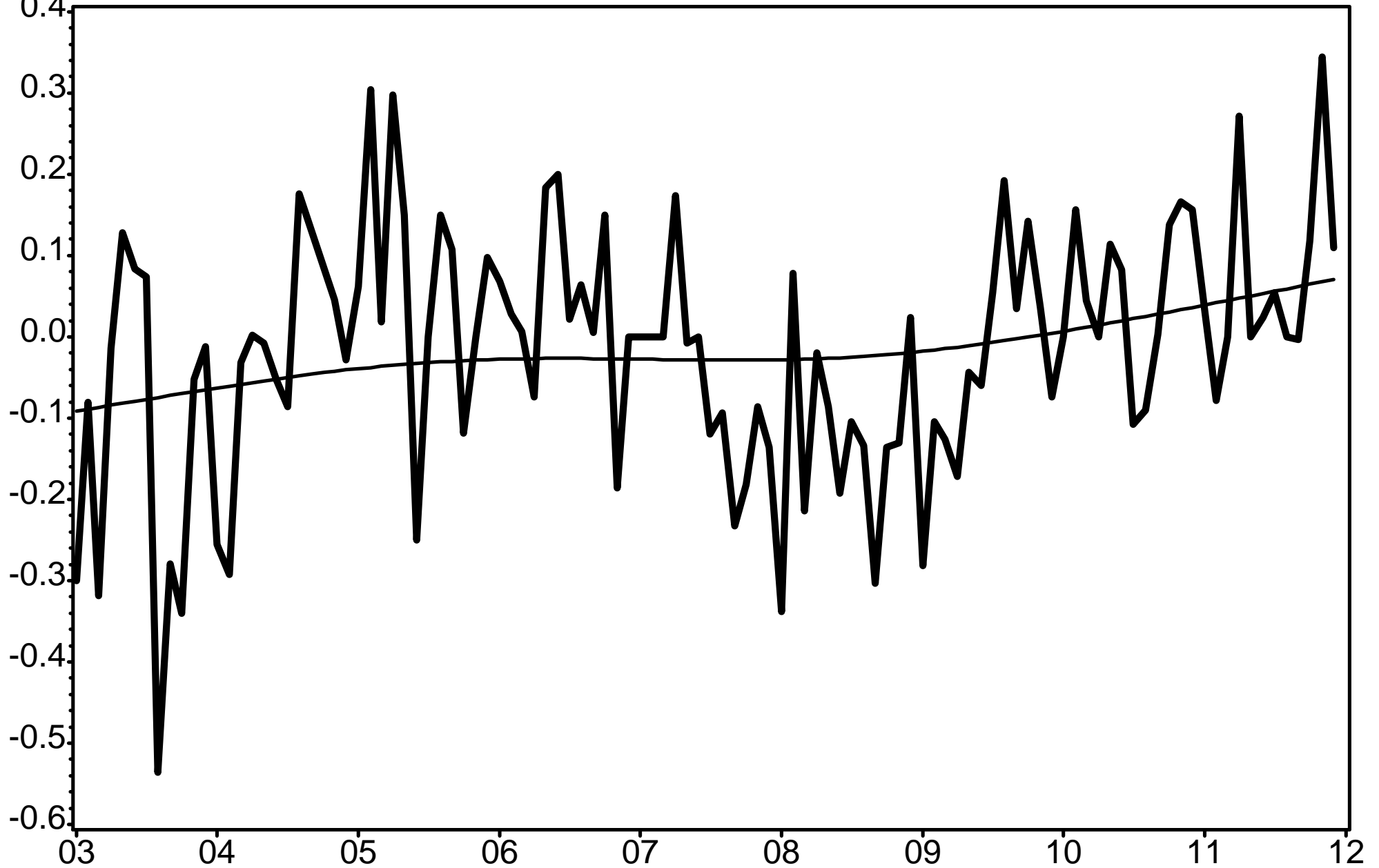
Monthly Data Time Series
for Surface pH in Upper Lemon Bay
Not Adjusted for Seasonal Medians



Upper Lemon Bay Trends Appendix - Display 2252

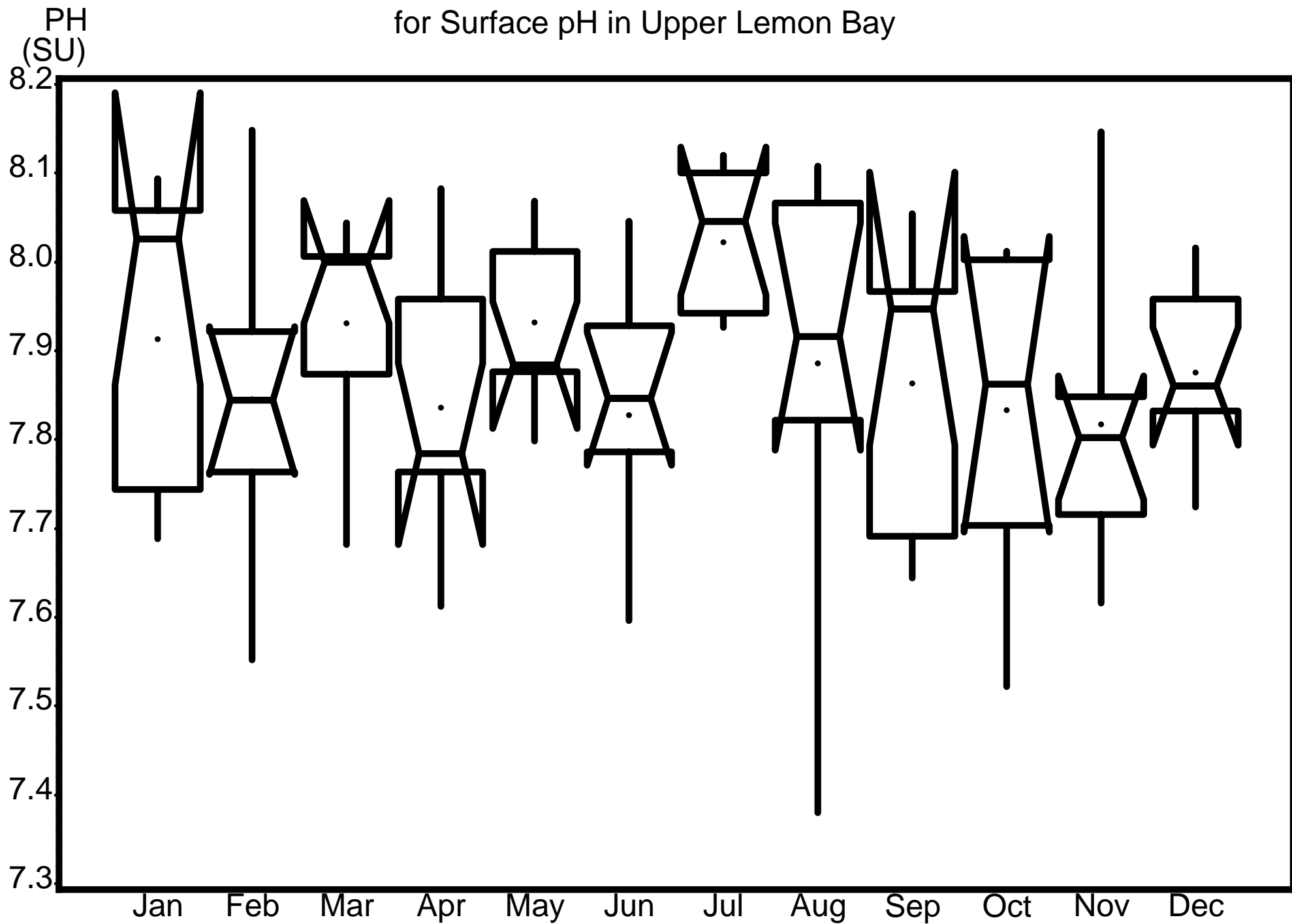
Monthly Data Time Series
for Surface pH in Upper Lemon Bay
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



Upper Lemon Bay Trends Appendix - Display 2253

Seasonal Univariate Statistics for Surface pH in Upper Lemon Bay



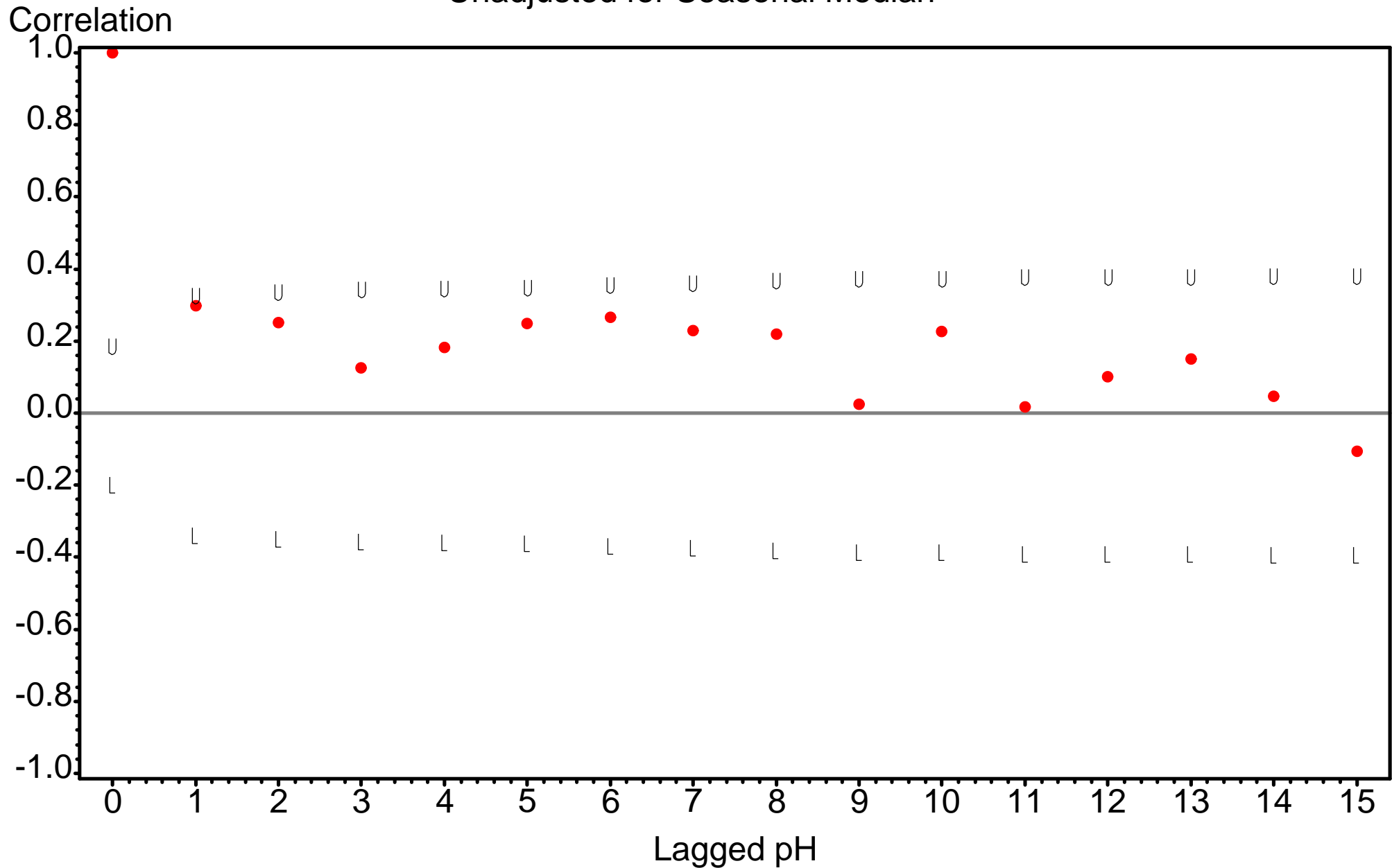
Upper Lemon Bay Trends Appendix - Display 2254
Autocorrelation Statistics for Surface pH in Upper Lemon Bay

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.297	0.167	0.333	-0.333
2	0.250	0.171	0.343	-0.343
3	0.126	0.175	0.350	-0.350
4	0.182	0.176	0.351	-0.351
5	0.249	0.177	0.355	-0.355
6	0.267	0.181	0.361	-0.361
7	0.229	0.184	0.368	-0.368
8	0.219	0.187	0.374	-0.374
9	0.024	0.189	0.378	-0.378
10	0.227	0.189	0.378	-0.378
11	0.017	0.192	0.383	-0.383
12	0.100	0.192	0.383	-0.383
13	0.149	0.192	0.384	-0.384
14	0.046	0.193	0.387	-0.387
15	-0.105	0.193	0.387	-0.387

Upper Lemon Bay Trends Appendix - Display 2255

Correlogram for Surface pH in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2256
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Upper Lemon Bay
Unadjusted for Seasonal Medians

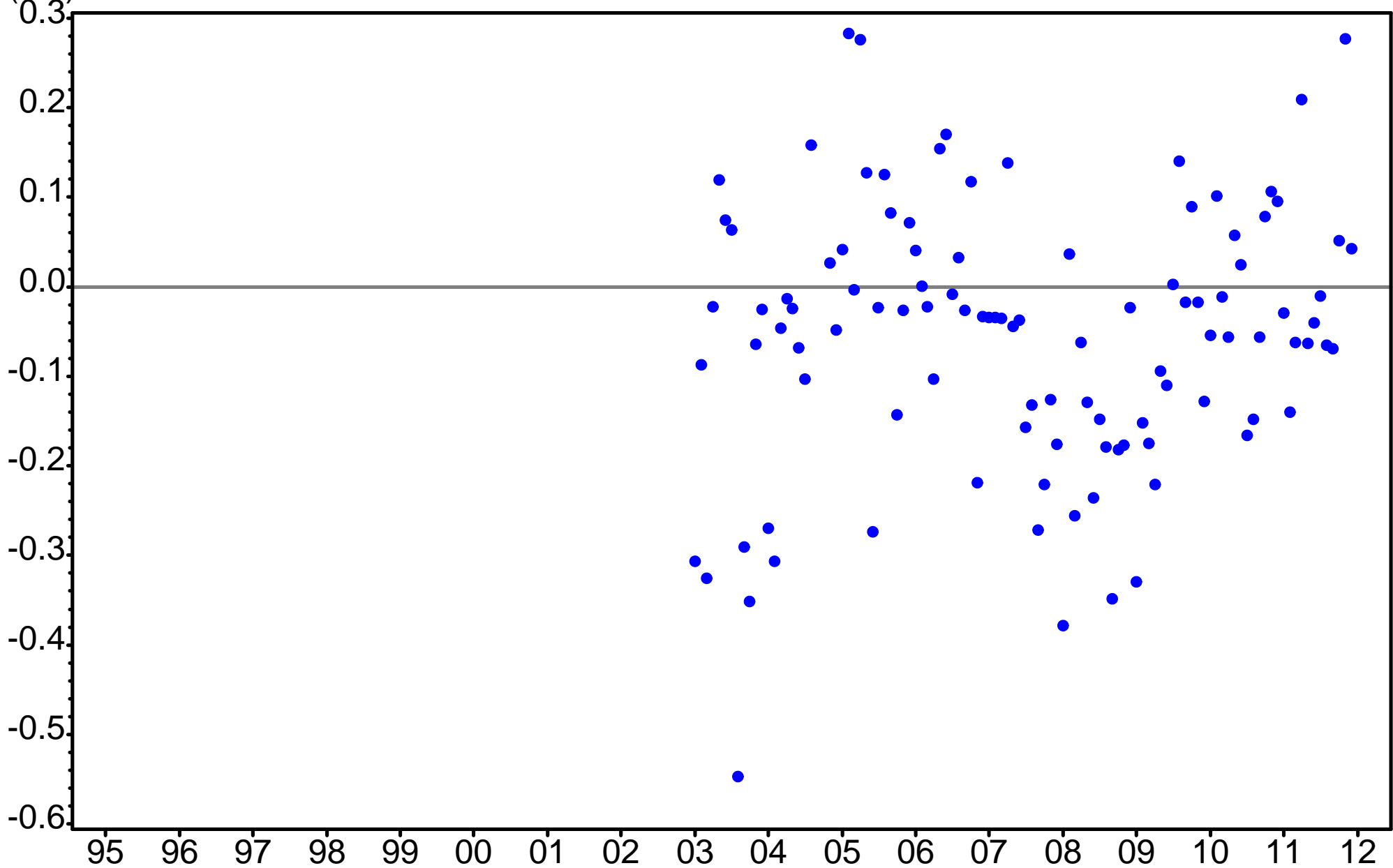
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.106	0.107	0.107	0.011

Upper Lemon Bay Trends Appendix - Display 2257
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.081731	0.30772	0.56776	.0068

Upper Lemon Bay Trends Appendix - Display 2258
Time Series Plot of Surface pH Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(SU)



Zero Reference Line Shown

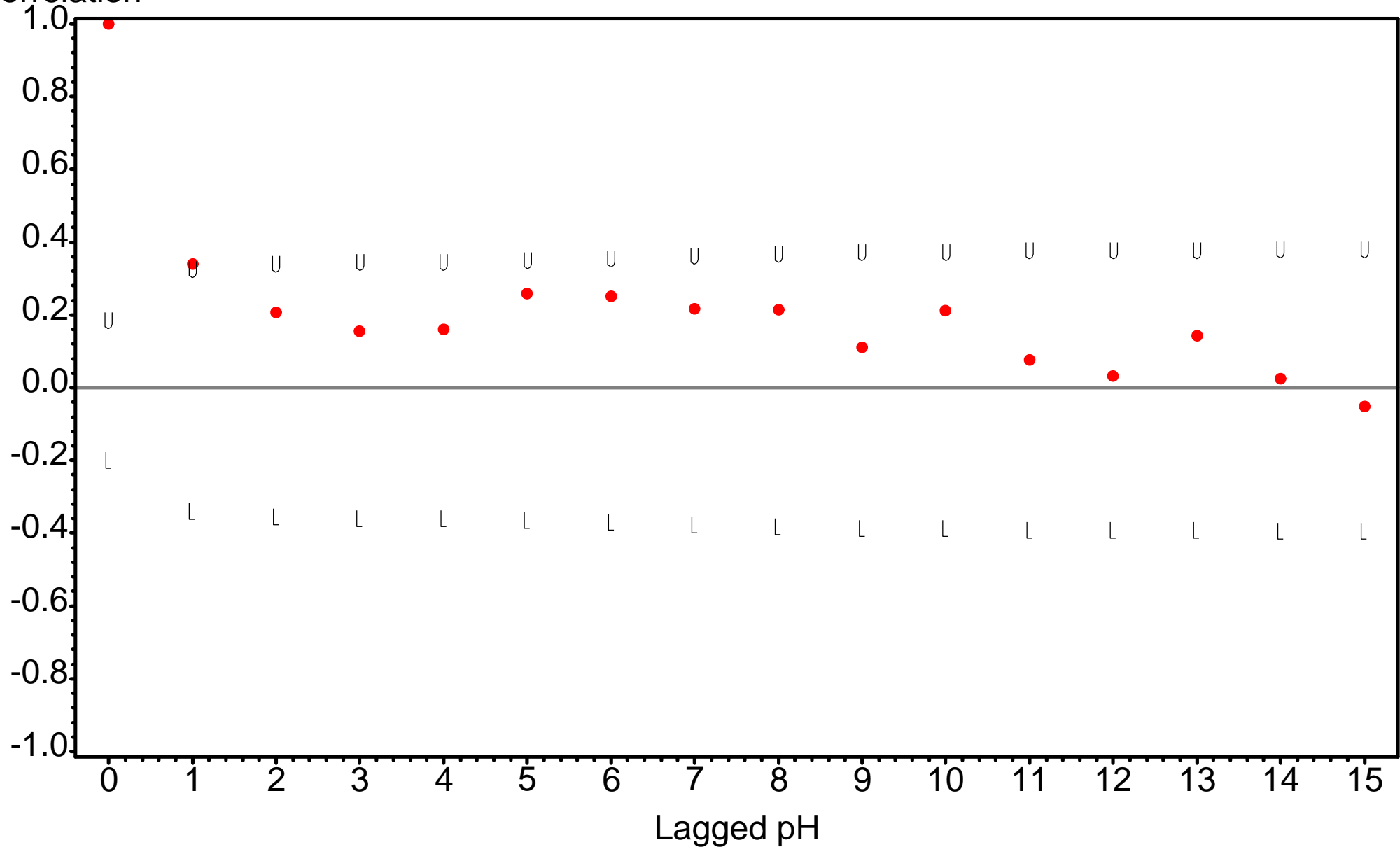
Upper Lemon Bay Trends Appendix - Display 2259
 Autocorrelation Statistics for Surface pH in Upper Lemon Bay
 Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.341	0.167	0.333	-0.333
2	0.207	0.173	0.346	-0.346
3	0.155	0.175	0.351	-0.351
4	0.160	0.177	0.353	-0.353
5	0.259	0.178	0.356	-0.356
6	0.251	0.181	0.363	-0.363
7	0.217	0.185	0.369	-0.369
8	0.215	0.187	0.374	-0.374
9	0.111	0.189	0.378	-0.378
10	0.212	0.190	0.380	-0.380
11	0.077	0.192	0.384	-0.384
12	0.031	0.192	0.384	-0.384
13	0.142	0.192	0.385	-0.385
14	0.025	0.193	0.386	-0.386
15	-0.051	0.193	0.387	-0.387

Upper Lemon Bay Trends Appendix - Display 2260

Correlogram for Surface pH in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

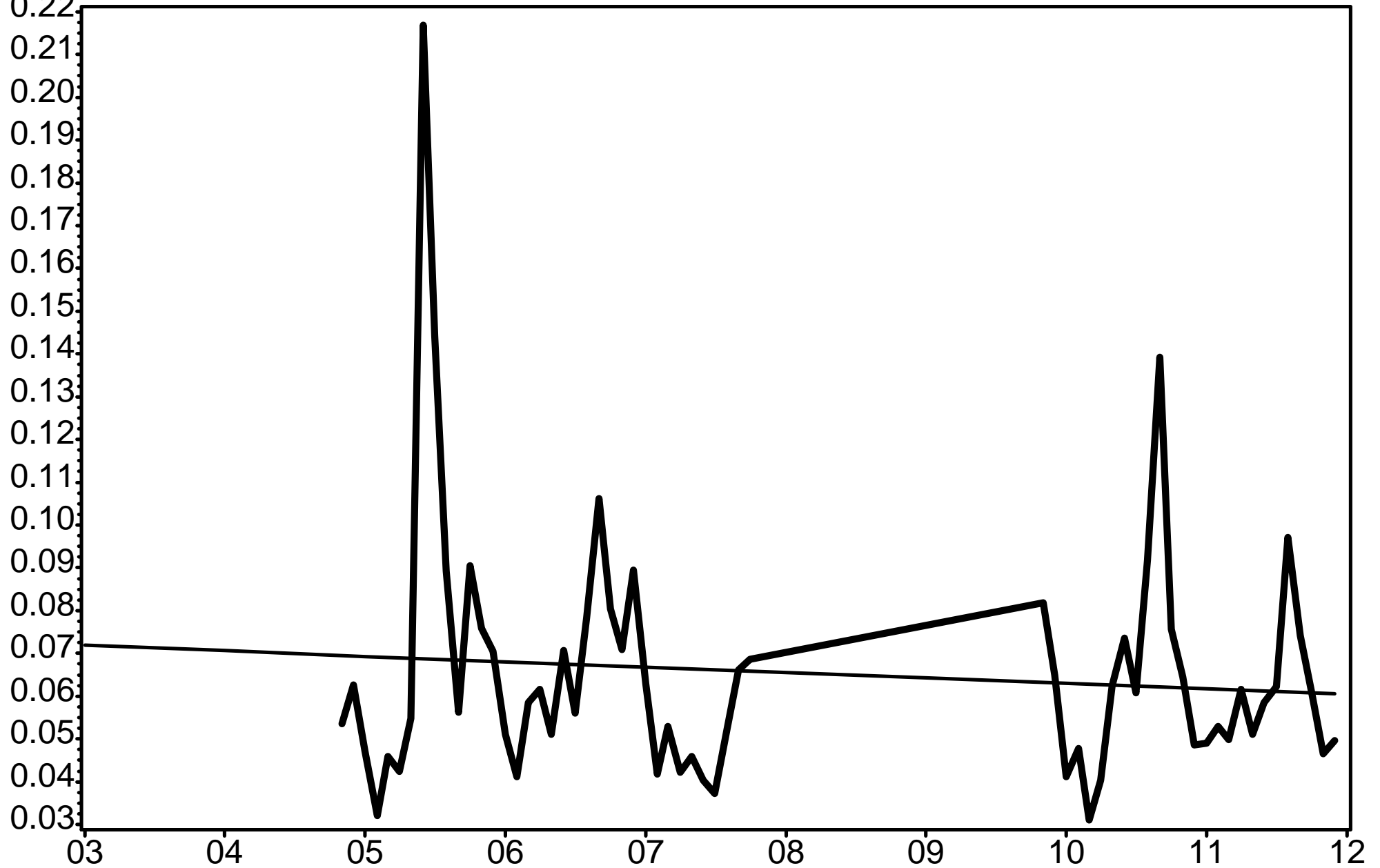
Upper Lemon Bay Trends Appendix - Display 2261

Monthly Data Time Series

for Surface Orthophosphate (as P) in Upper Lemon Bay

Not Adjusted for Seasonal Medians

PO4_mgl
(mg/l)



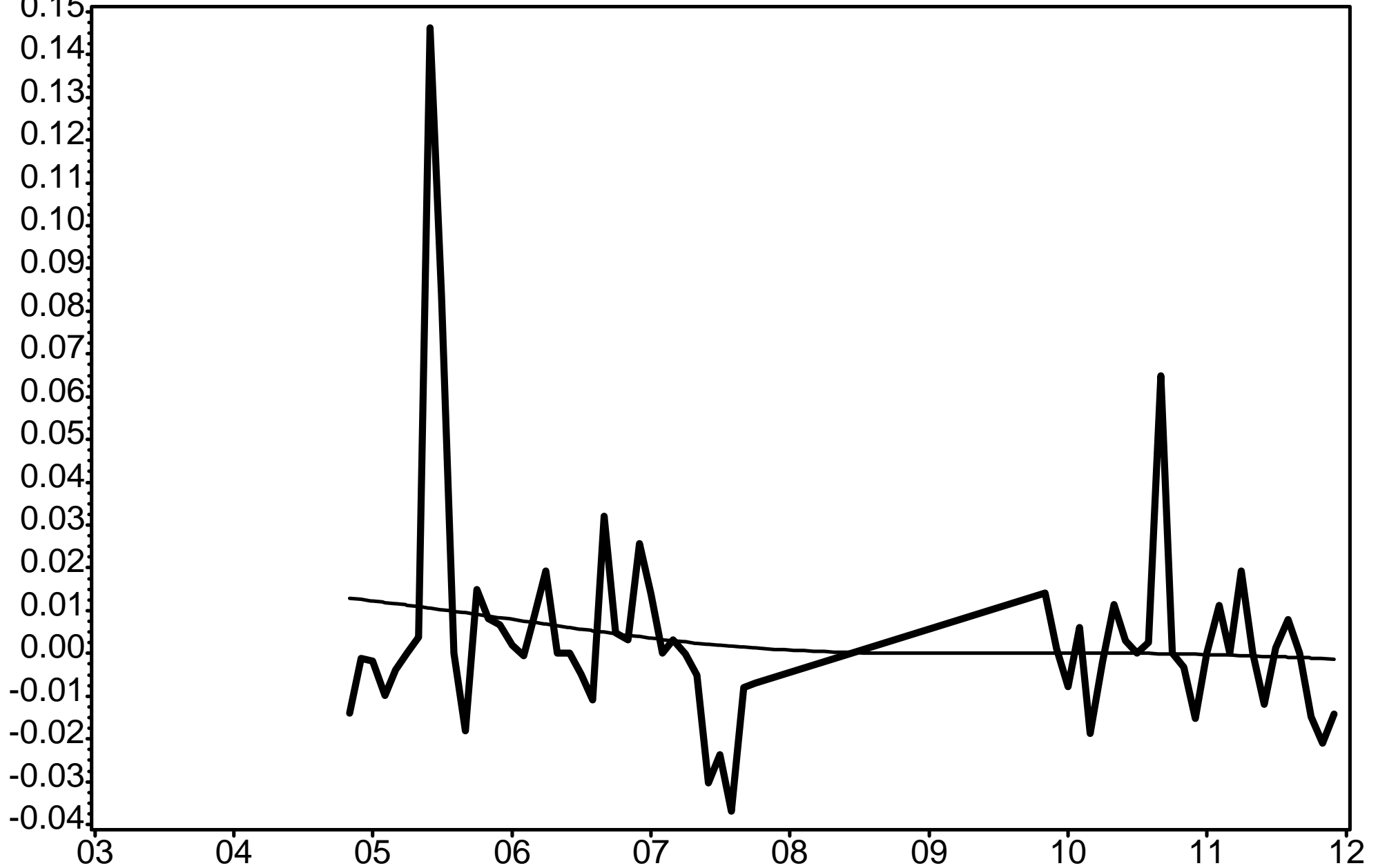
Upper Lemon Bay Trends Appendix - Display 2262

Monthly Data Time Series

for Surface Orthophosphate (as P) in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
PO4_mgl
(mg/l)

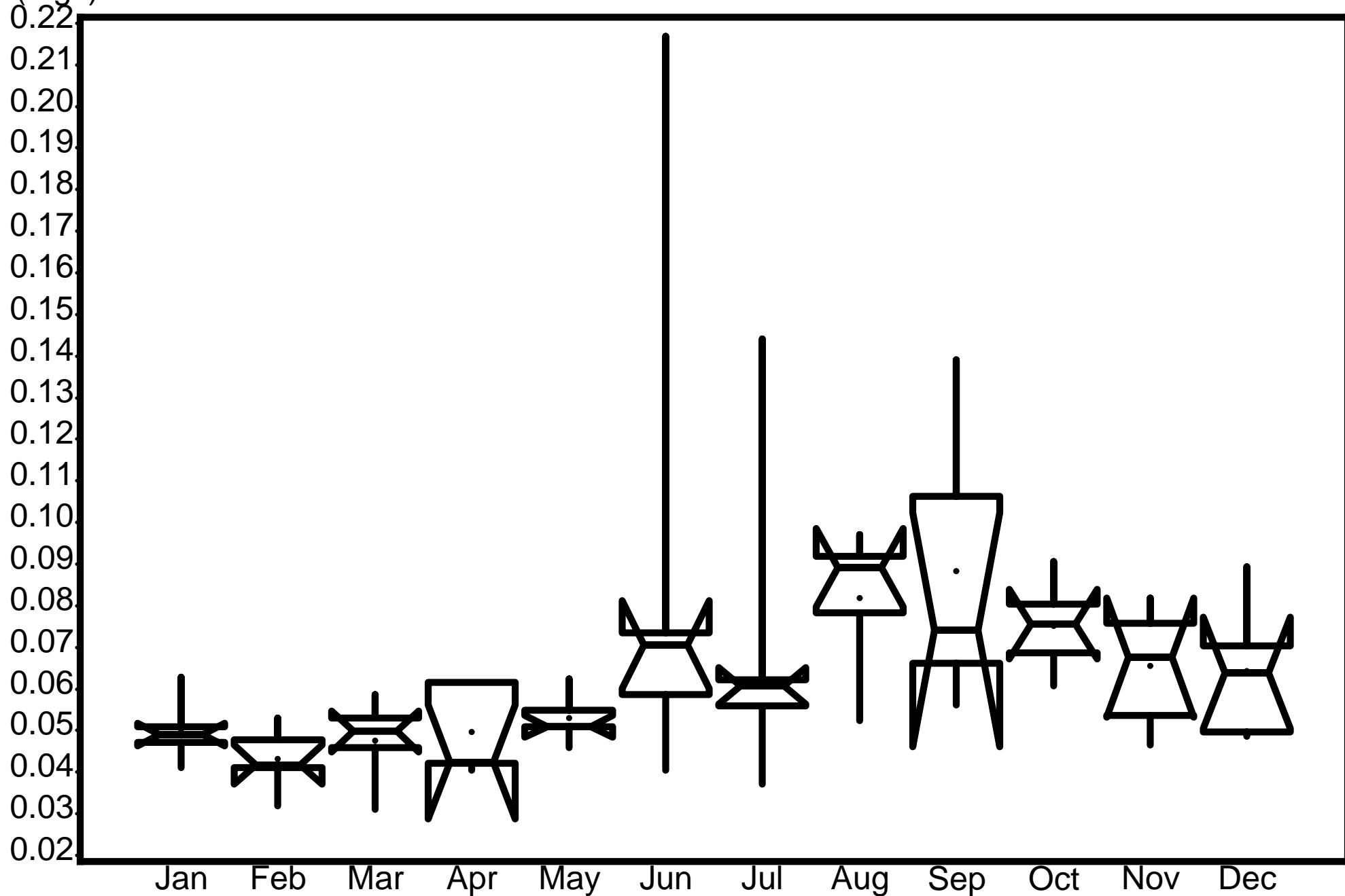


Upper Lemon Bay Trends Appendix - Display 2263

Seasonal Univariate Statistics

for Surface Orthophosphate (as P) in Upper Lemon Bay

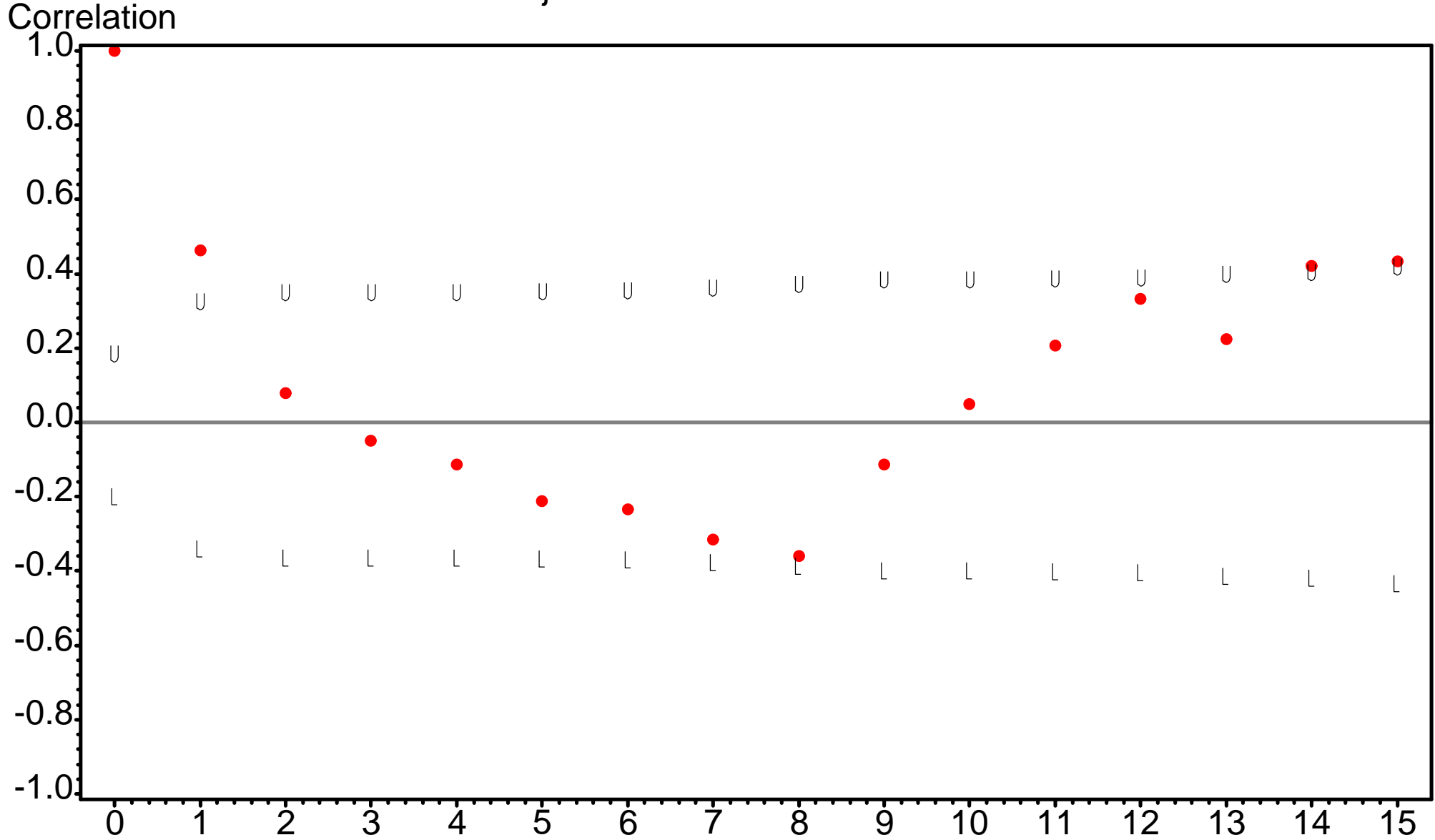
PO4_mgl
(mg/l)



Upper Lemon Bay Trends Appendix - Display 2264
Autocorrelation Statistics for Surface Orthophosphate (as P) in Upper Lemon Bay

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.464	0.167	0.333	-0.333
2	0.079	0.178	0.356	-0.356
3	-0.049	0.179	0.357	-0.357
4	-0.114	0.179	0.357	-0.357
5	-0.212	0.179	0.359	-0.359
6	-0.235	0.182	0.363	-0.363
7	-0.314	0.184	0.369	-0.369
8	-0.360	0.189	0.379	-0.379
9	-0.114	0.196	0.391	-0.391
10	0.049	0.196	0.392	-0.392
11	0.208	0.196	0.393	-0.393
12	0.332	0.198	0.397	-0.397
13	0.224	0.203	0.407	-0.407
14	0.421	0.206	0.411	-0.411
15	0.434	0.214	0.427	-0.427

Upper Lemon Bay Trends Appendix - Display 2265
Correlogram for Surface Orthophosphate (as P) in Upper Lemon Bay
Unadjusted for Seasonal Median



Lagged Orthophosphate (as P)
U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2266
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Upper Lemon Bay
Unadjusted for Seasonal Medians

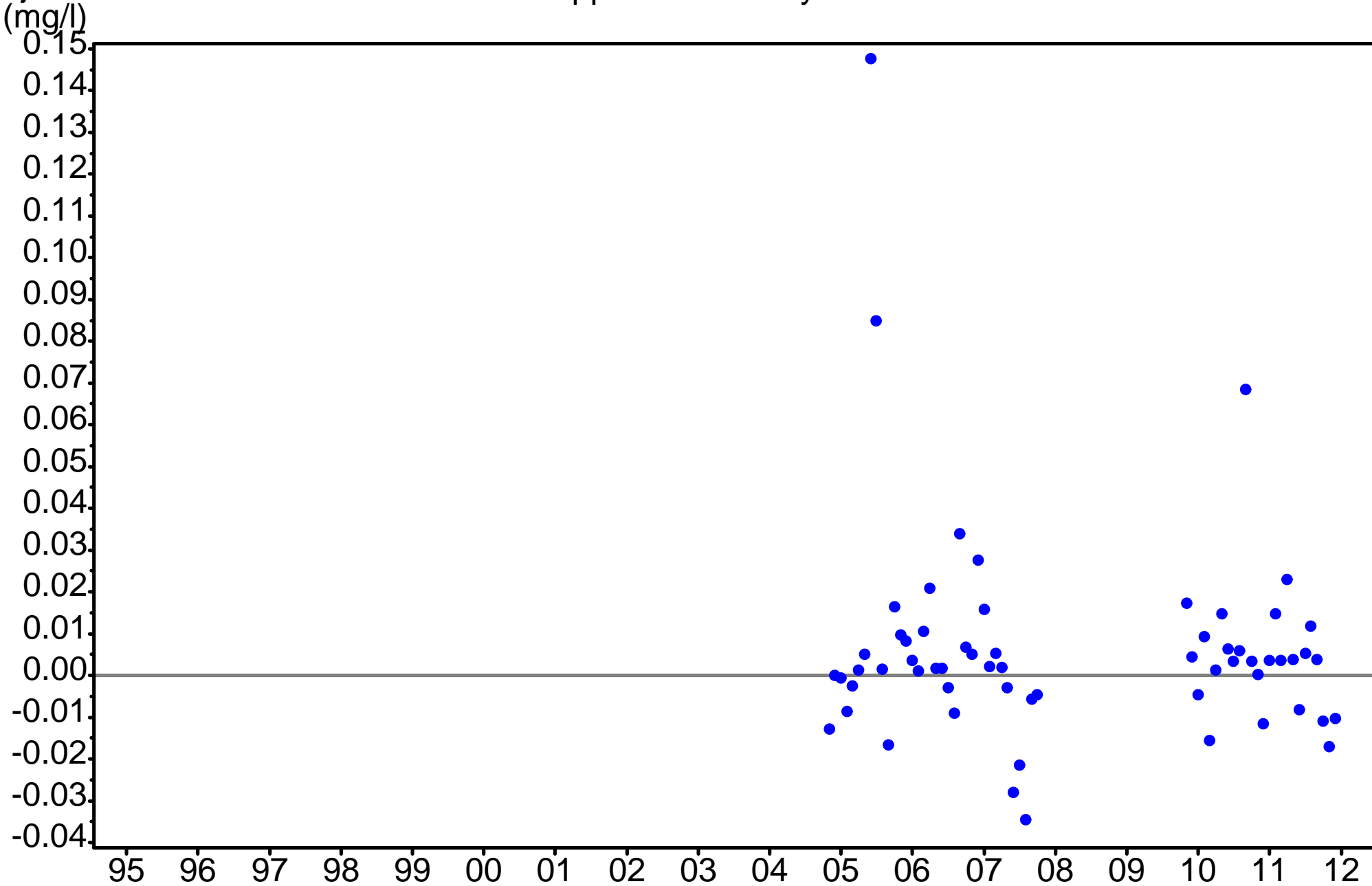
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.026	0.766	0.766	0

Upper Lemon Bay Trends Appendix - Display 2267
Seasonal Kendall Tau Trend Test Statistics
for Surface Orthophosphate (as P) in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.038462	0.78756	0.78065	-.0004

Upper Lemon Bay Trends Appendix - Display 2268

Time Series Plot of Surface Orthophosphate (as P) Data Adjusted for Season and Detrended
Adjusted
Upper Lemon Bay



Zero Reference Line Shown

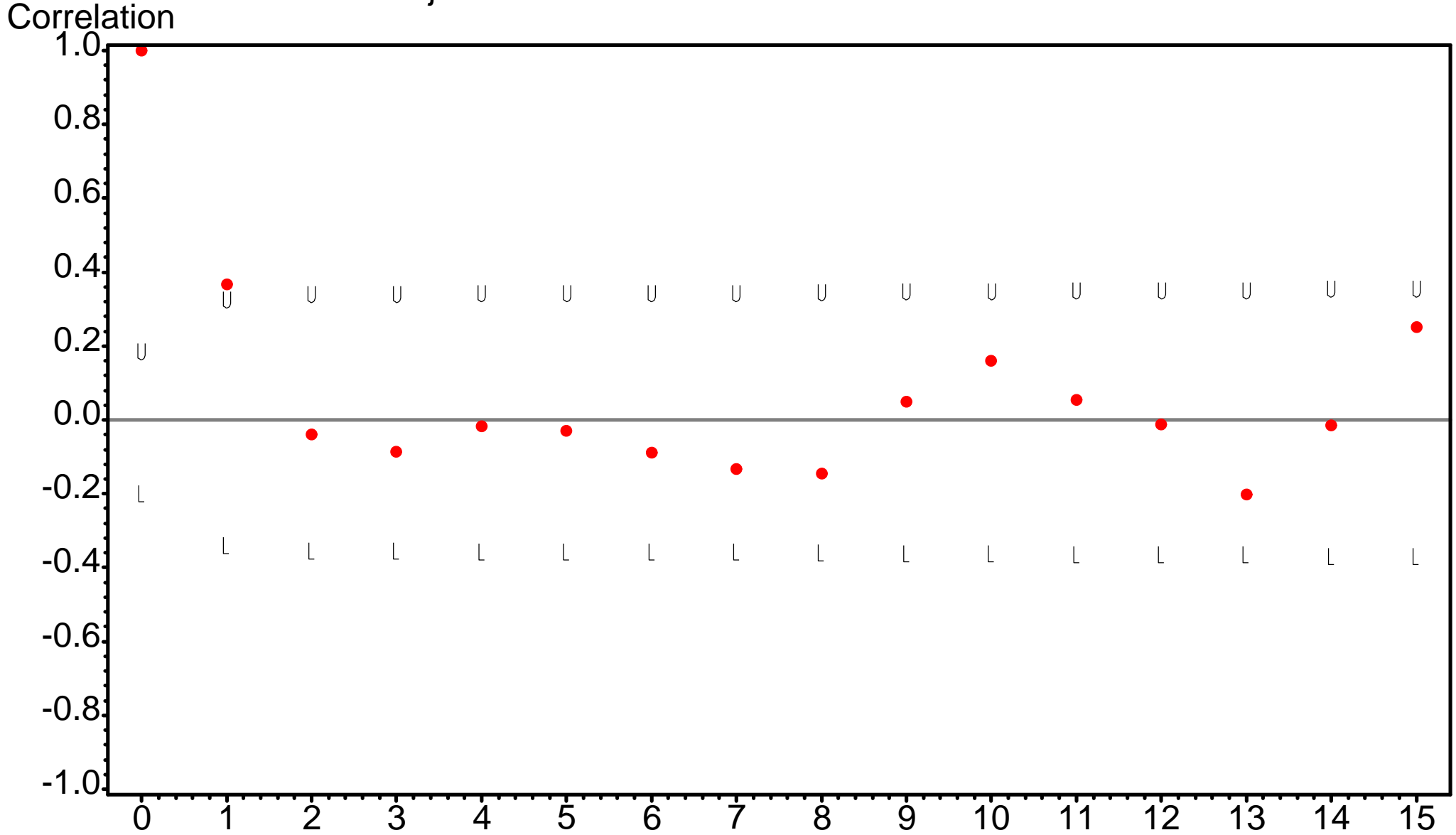
Upper Lemon Bay Trends Appendix - Display 2269
Autocorrelation Statistics for Surface Orthophosphate (as P) in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Orthophosphate (as P)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.366	0.167	0.333	-0.333
2	-0.039	0.174	0.348	-0.348
3	-0.085	0.174	0.348	-0.348
4	-0.018	0.174	0.349	-0.349
5	-0.029	0.174	0.349	-0.349
6	-0.088	0.174	0.349	-0.349
7	-0.132	0.175	0.350	-0.350
8	-0.146	0.176	0.352	-0.352
9	0.049	0.177	0.354	-0.354
10	0.160	0.177	0.354	-0.354
11	0.053	0.178	0.357	-0.357
12	-0.013	0.179	0.357	-0.357
13	-0.203	0.179	0.357	-0.357
14	-0.014	0.181	0.361	-0.361
15	0.252	0.181	0.361	-0.361

Upper Lemon Bay Trends Appendix - Display 2270

Correlogram for Surface Orthophosphate (as P) in Upper Lemon Bay

Adjusted for Seasonal Median and Detrended



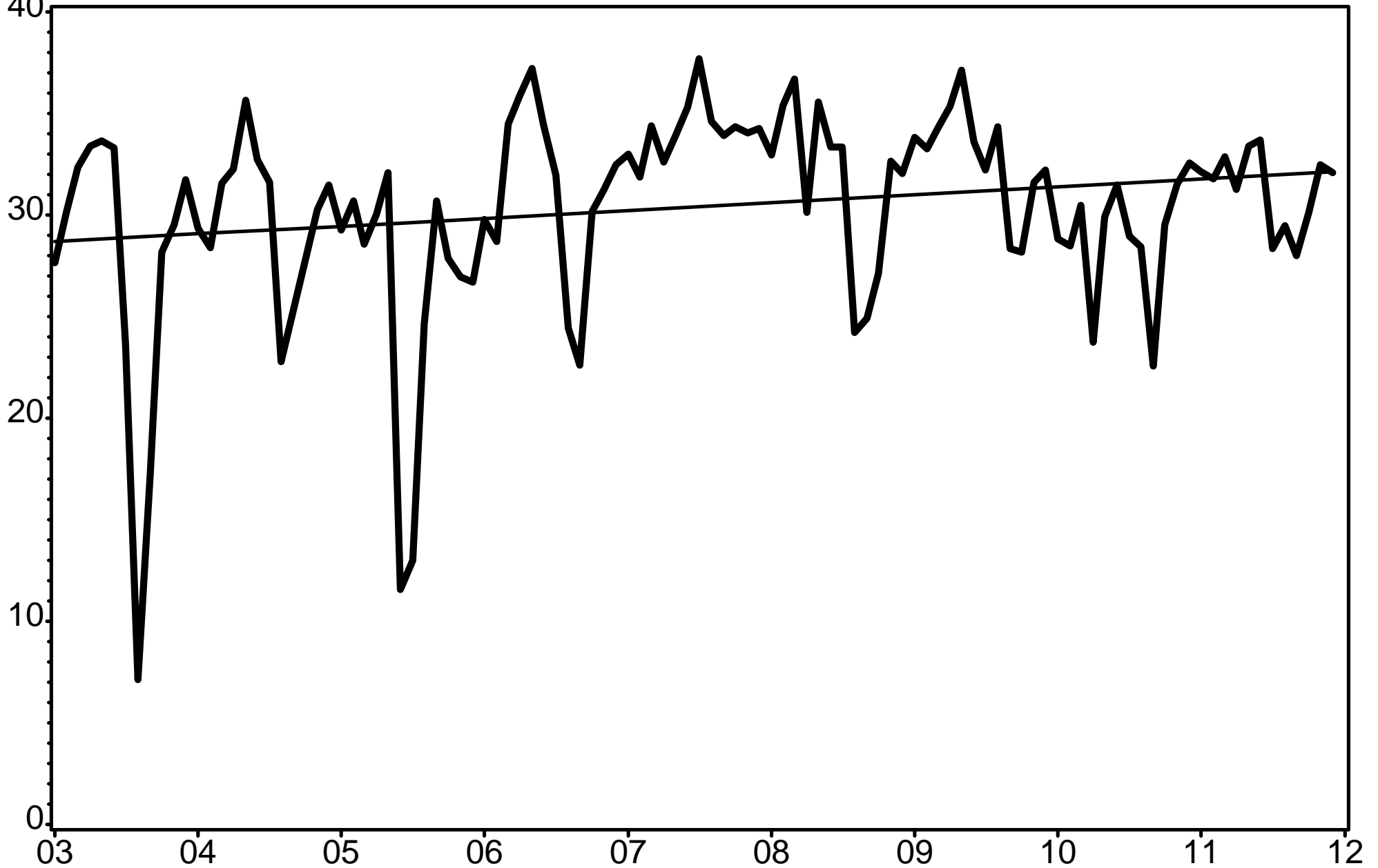
Lagged Orthophosphate (as P)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2271

Monthly Data Time Series
for Surface Salinity in Upper Lemon Bay
Not Adjusted for Seasonal Medians

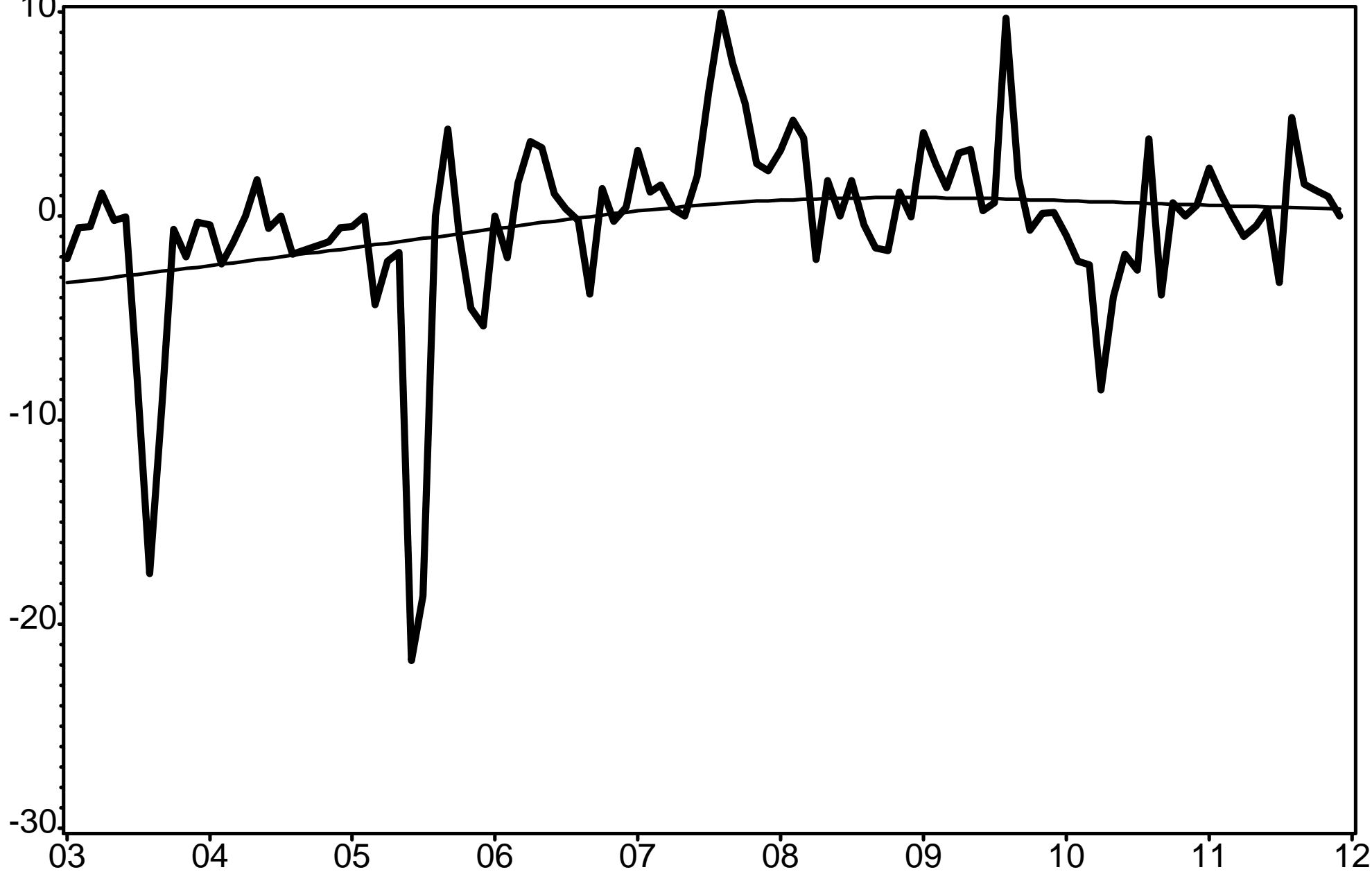
Salinity
(ppt)



Upper Lemon Bay Trends Appendix - Display 2272

Monthly Data Time Series
for Surface Salinity in Upper Lemon Bay
Adjusted for Seasonal Medians

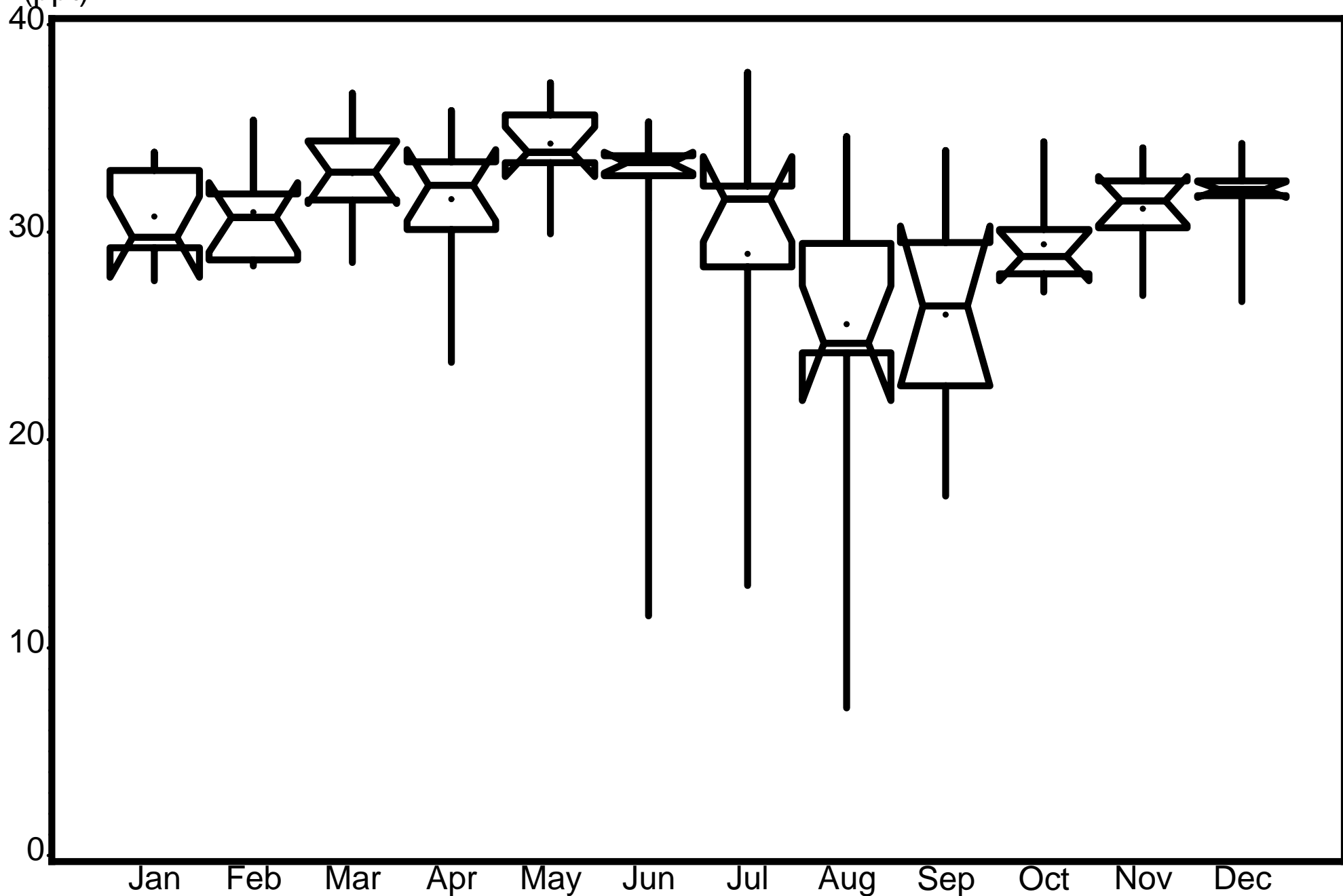
Adjusted
Salinity
(ppt)



Upper Lemon Bay Trends Appendix - Display 2273

Seasonal Univariate Statistics for Surface Salinity in Upper Lemon Bay

Salinity
(ppt)

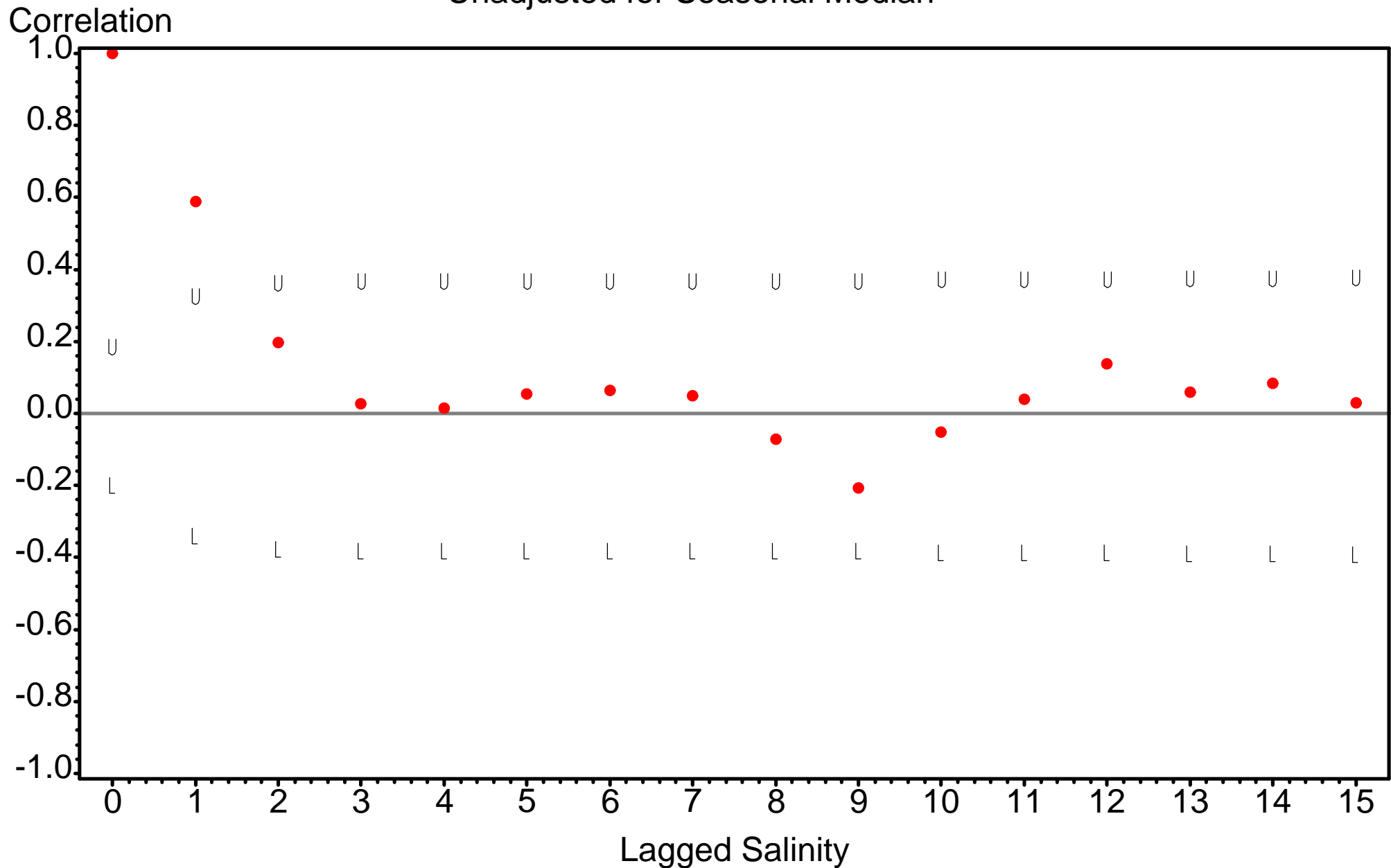


Upper Lemon Bay Trends Appendix - Display 2274
Autocorrelation Statistics for Surface Salinity in Upper Lemon Bay

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.588	0.167	0.333	-0.333
2	0.196	0.185	0.370	-0.370
3	0.028	0.187	0.374	-0.374
4	0.015	0.187	0.374	-0.374
5	0.053	0.187	0.374	-0.374
6	0.064	0.187	0.374	-0.374
7	0.050	0.187	0.374	-0.374
8	-0.071	0.187	0.375	-0.375
9	-0.208	0.188	0.375	-0.375
10	-0.052	0.190	0.379	-0.379
11	0.040	0.190	0.380	-0.380
12	0.137	0.190	0.380	-0.380
13	0.060	0.191	0.382	-0.382
14	0.083	0.191	0.382	-0.382
15	0.030	0.191	0.383	-0.383

Upper Lemon Bay Trends Appendix - Display 2275

Correlogram for Surface Salinity in Upper Lemon Bay
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2276
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.07	0.289	0.289	0.145

Upper Lemon Bay Trends Appendix - Display 2277
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.18269	0.020678	0.32260	0.211

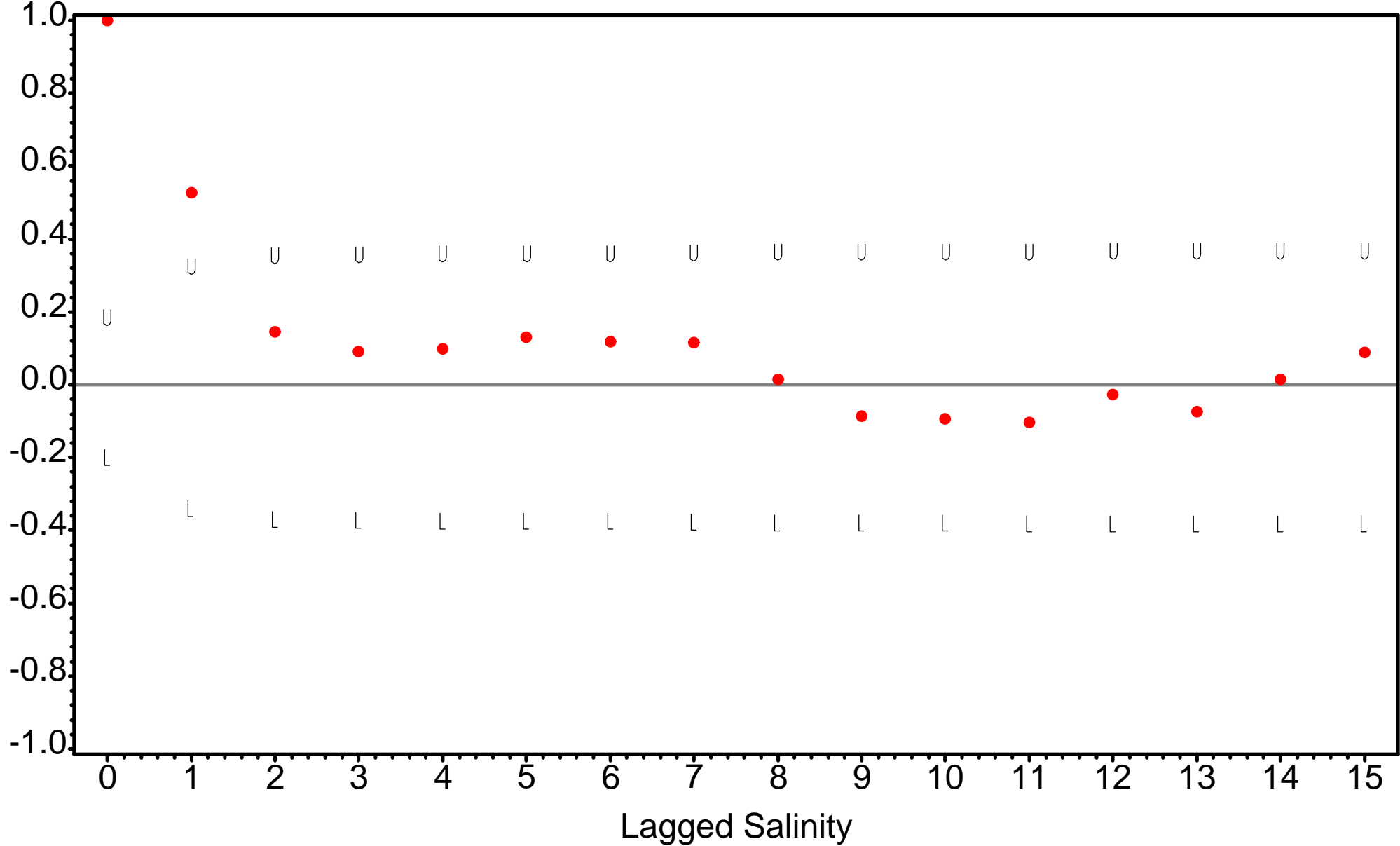
Upper Lemon Bay Trends Appendix - Display 2279
Autocorrelation Statistics for Surface Salinity in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.526	0.167	0.333	-0.333
2	0.145	0.181	0.363	-0.363
3	0.091	0.182	0.365	-0.365
4	0.099	0.183	0.366	-0.366
5	0.130	0.183	0.367	-0.367
6	0.119	0.184	0.368	-0.368
7	0.116	0.185	0.370	-0.370
8	0.015	0.186	0.371	-0.371
9	-0.085	0.186	0.371	-0.371
10	-0.093	0.186	0.372	-0.372
11	-0.103	0.186	0.373	-0.373
12	-0.028	0.187	0.374	-0.374
13	-0.073	0.187	0.374	-0.374
14	0.015	0.187	0.375	-0.375
15	0.088	0.187	0.375	-0.375

Upper Lemon Bay Trends Appendix - Display 2280

Correlogram for Surface Salinity in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

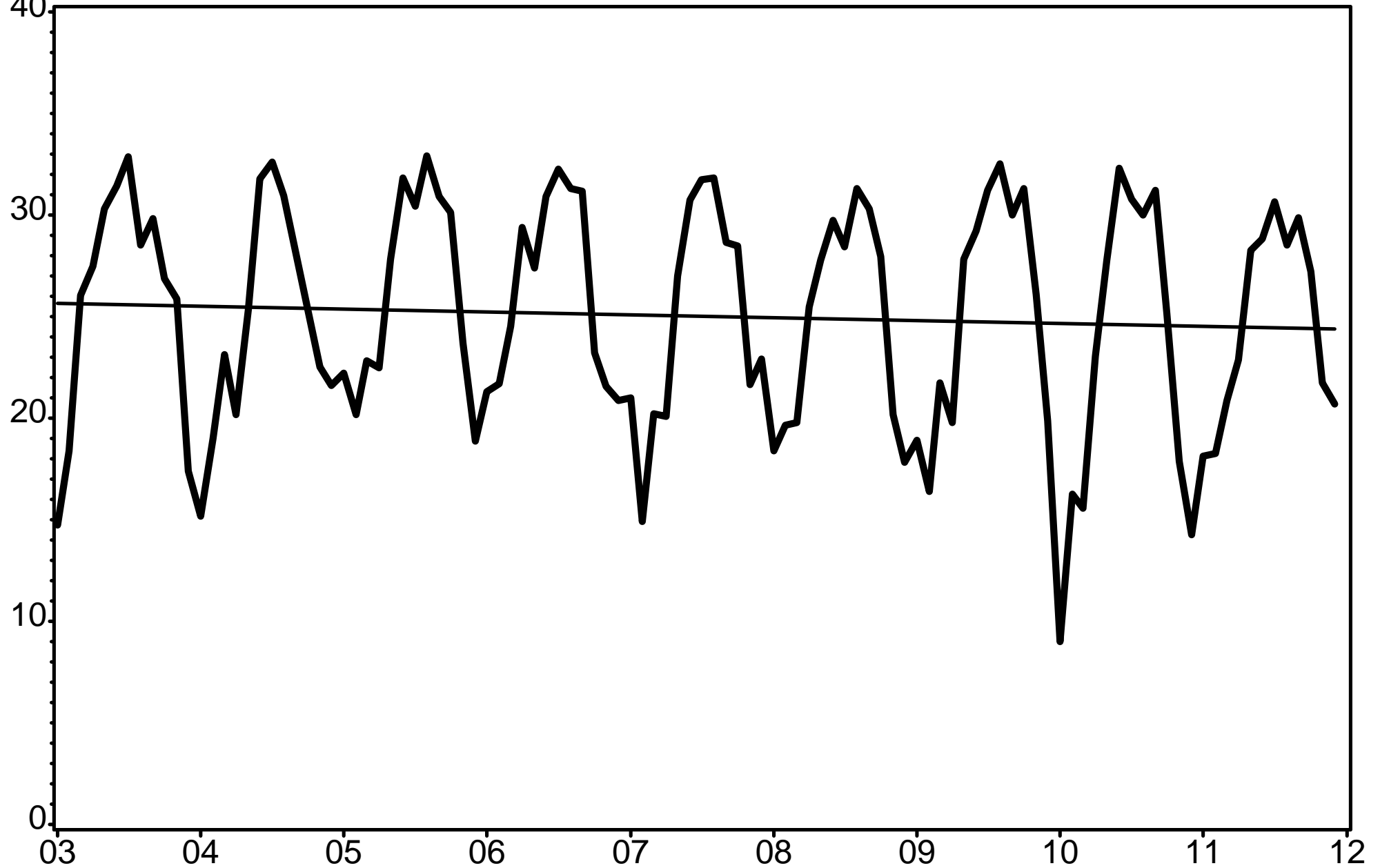
Upper Lemon Bay Trends Appendix - Display 2281

Monthly Data Time Series

for Surface Temperature in Upper Lemon Bay

Not Adjusted for Seasonal Medians

TEMP_C
(Degree C)

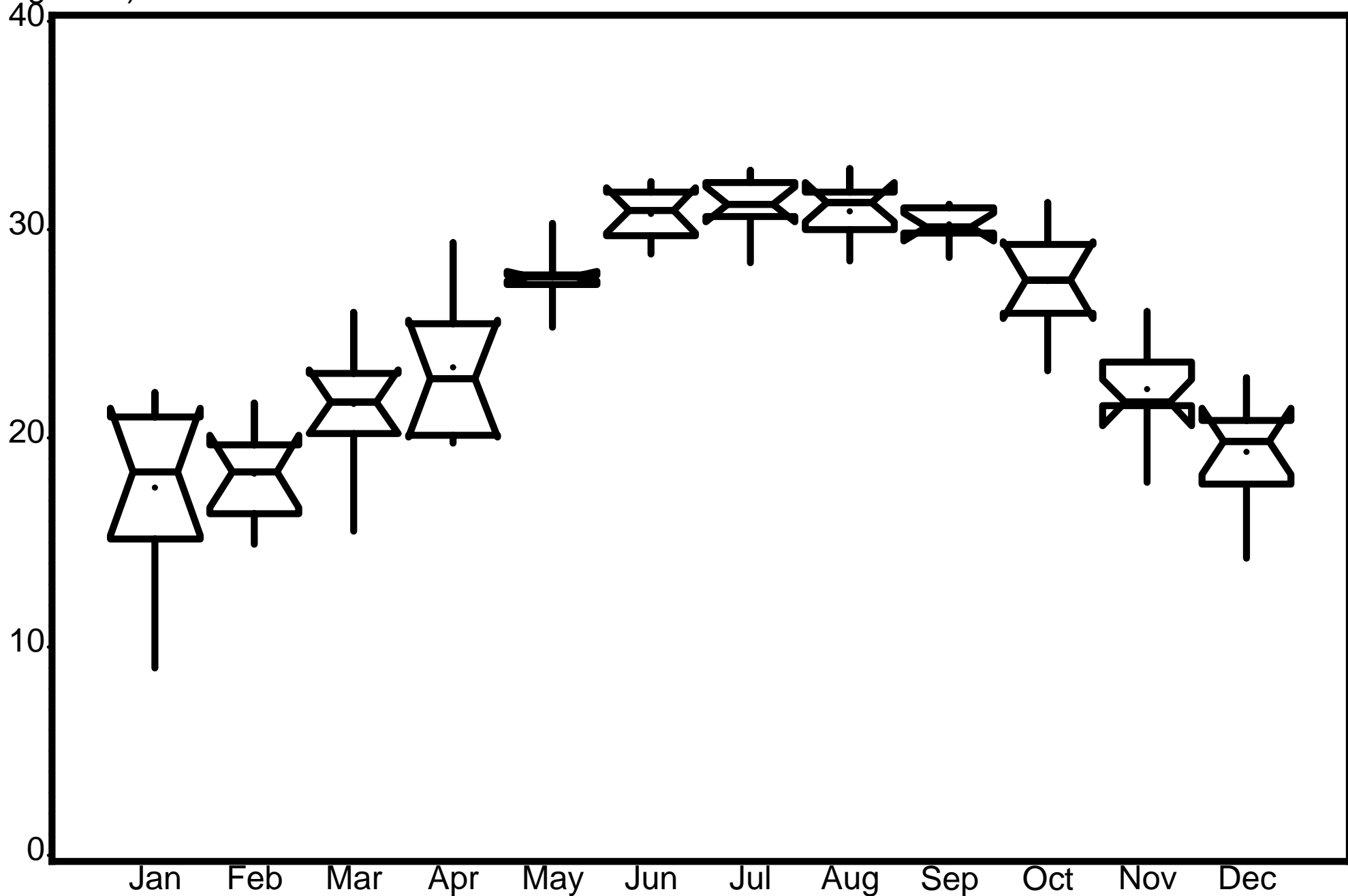


Upper Lemon Bay Trends Appendix - Display 2283

Seasonal Univariate Statistics

for Surface Temperature in Upper Lemon Bay

TEMP_C
(Degree C)



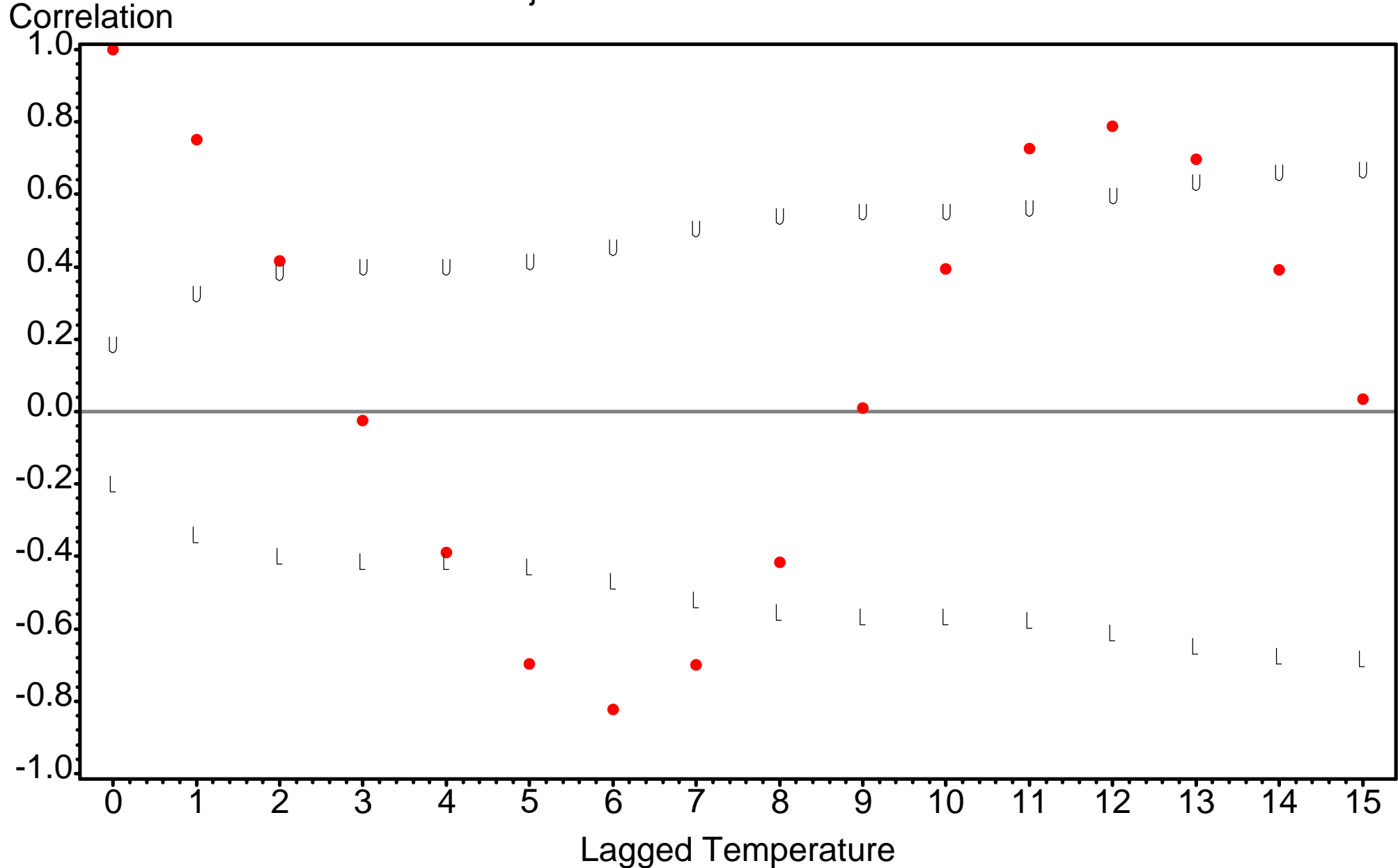
Upper Lemon Bay Trends Appendix - Display 2284
Autocorrelation Statistics for Surface Temperature in Upper Lemon Bay

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.751	0.167	0.333	-0.333
2	0.417	0.196	0.391	-0.391
3	-0.025	0.204	0.407	-0.407
4	-0.388	0.204	0.407	-0.407
5	-0.696	0.210	0.421	-0.421
6	-0.822	0.231	0.461	-0.461
7	-0.700	0.256	0.513	-0.513
8	-0.417	0.274	0.547	-0.547
9	0.011	0.279	0.559	-0.559
10	0.395	0.279	0.559	-0.559
11	0.726	0.284	0.569	-0.569
12	0.789	0.301	0.602	-0.602
13	0.697	0.320	0.639	-0.639
14	0.391	0.333	0.667	-0.667
15	0.034	0.338	0.675	-0.675

Upper Lemon Bay Trends Appendix - Display 2285

Correlogram for Surface Temperature in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2286
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.053	0.425	0.425	-0.142

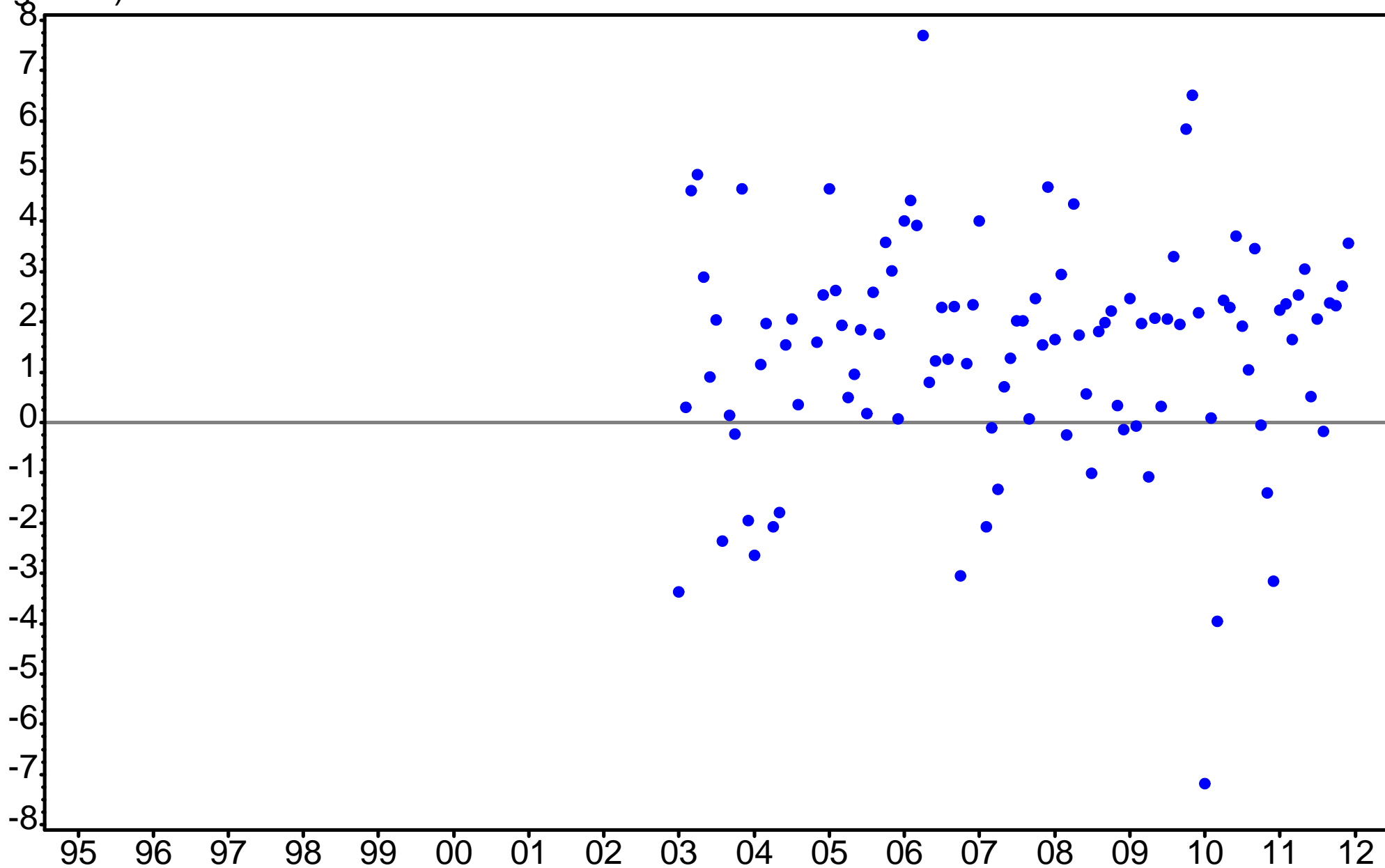
Upper Lemon Bay Trends Appendix - Display 2287
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.20192	0.010448	0.035446	-0.275

Upper Lemon Bay Trends Appendix - Display 2288

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(Degree C)



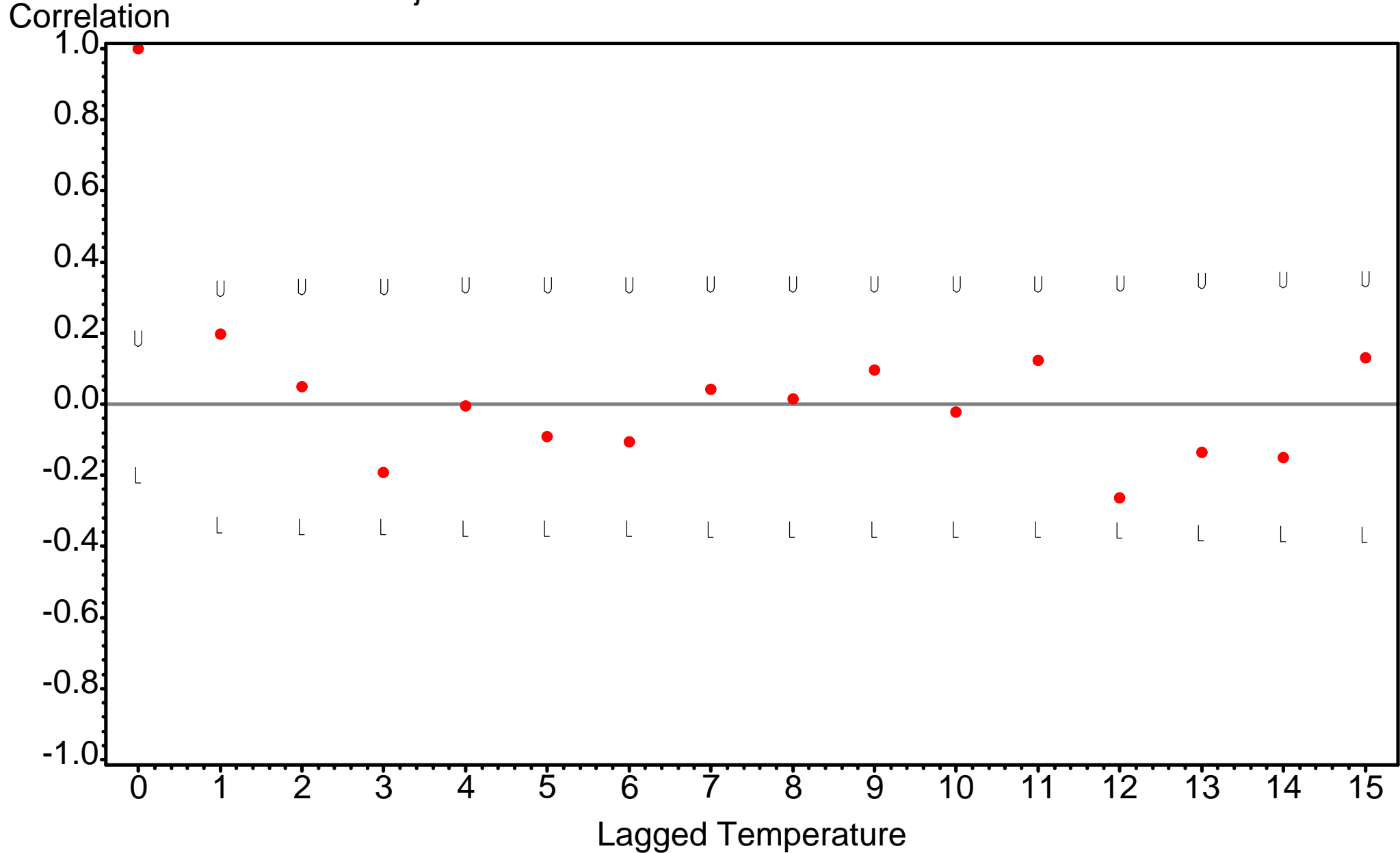
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2289
 Autocorrelation Statistics for Surface Temperature in Upper Lemon Bay
 Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.198	0.167	0.333	-0.333
2	0.049	0.169	0.338	-0.338
3	-0.191	0.169	0.338	-0.338
4	-0.005	0.171	0.342	-0.342
5	-0.091	0.171	0.342	-0.342
6	-0.107	0.171	0.343	-0.343
7	0.043	0.172	0.344	-0.344
8	0.015	0.172	0.344	-0.344
9	0.096	0.172	0.344	-0.344
10	-0.022	0.173	0.345	-0.345
11	0.124	0.173	0.345	-0.345
12	-0.264	0.173	0.347	-0.347
13	-0.136	0.177	0.354	-0.354
14	-0.149	0.178	0.356	-0.356
15	0.130	0.179	0.359	-0.359

Upper Lemon Bay Trends Appendix - Display 2290

Correlogram for Surface Temperature in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

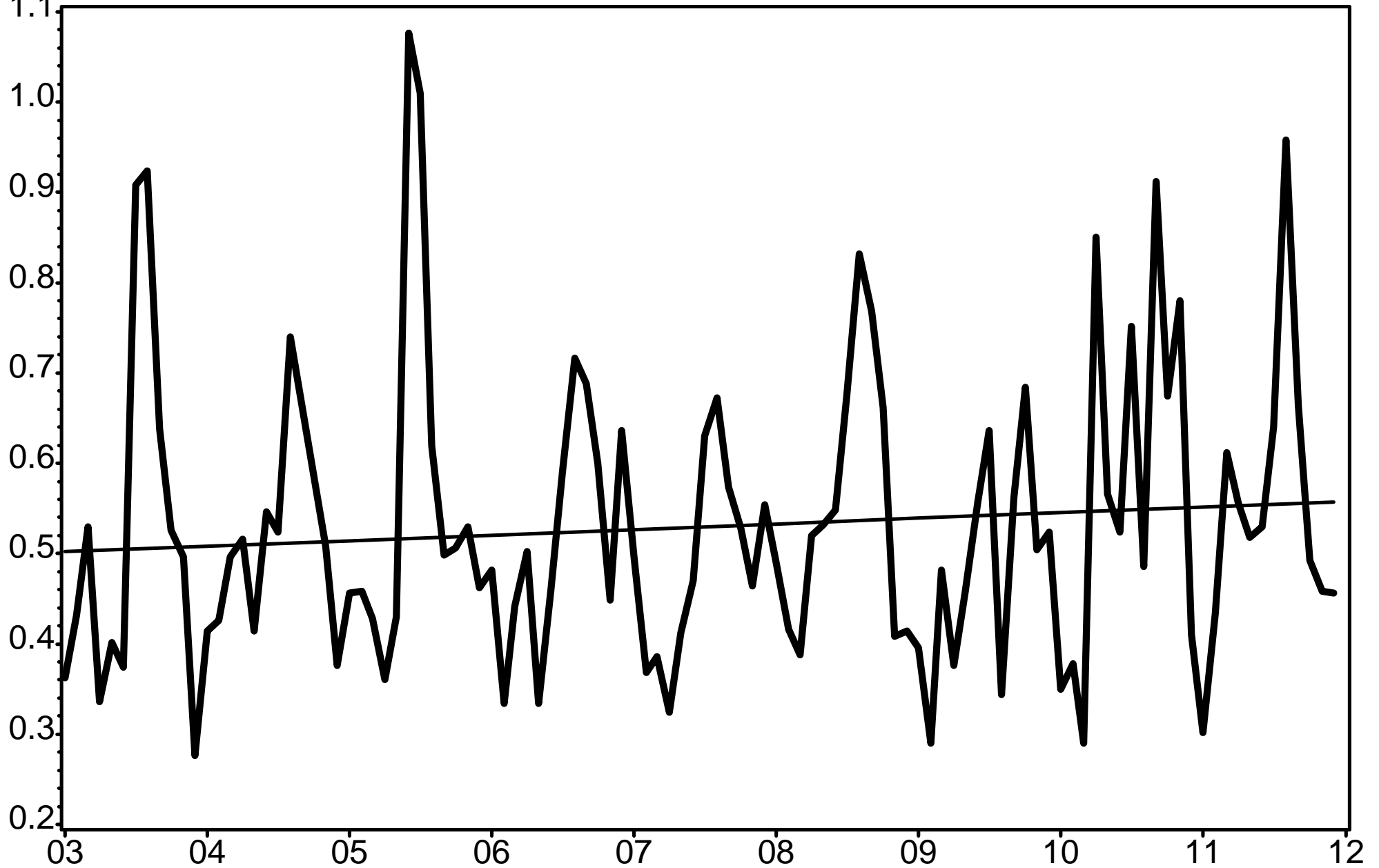
Upper Lemon Bay Trends Appendix - Display 2291

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



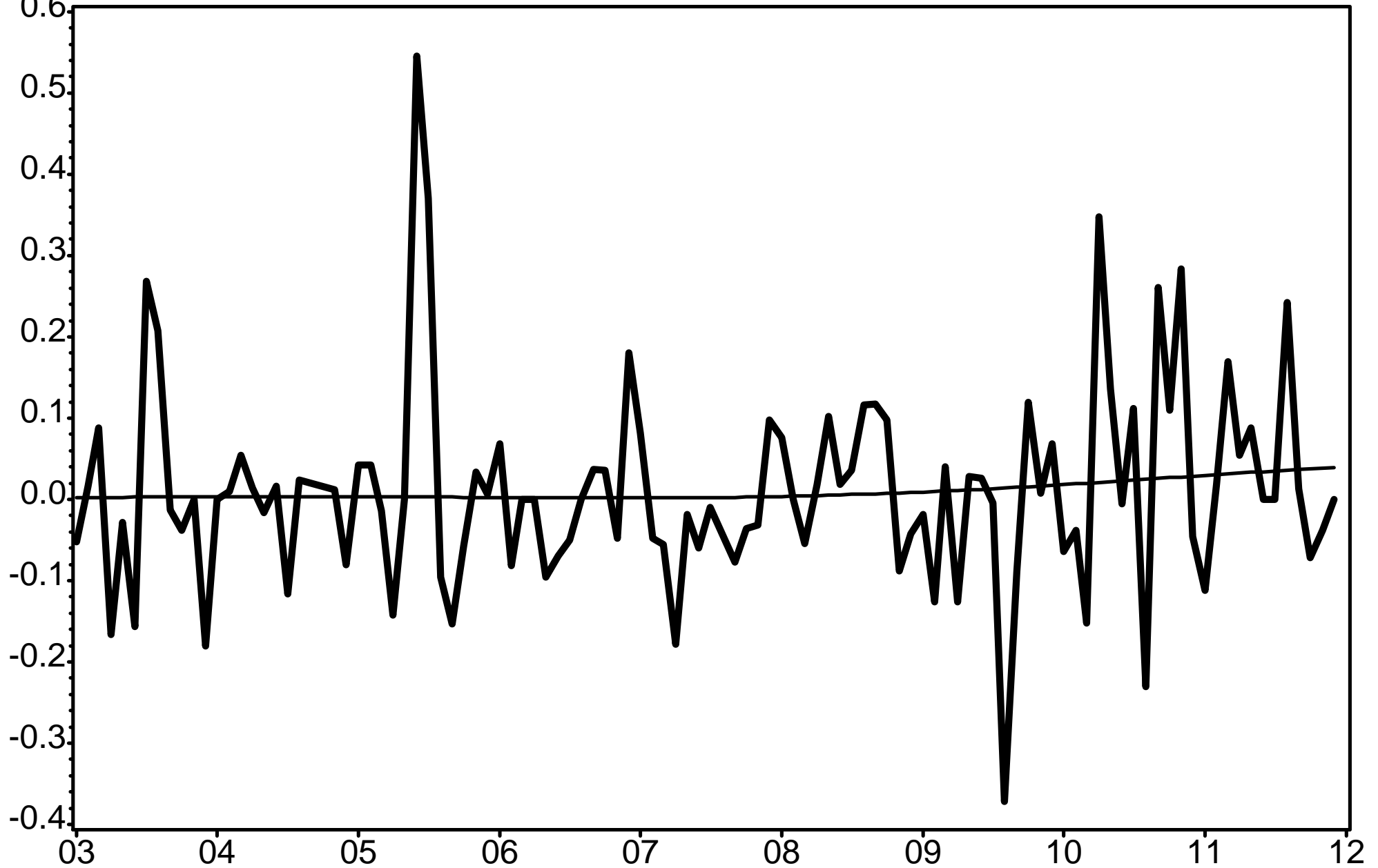
Upper Lemon Bay Trends Appendix - Display 2292

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

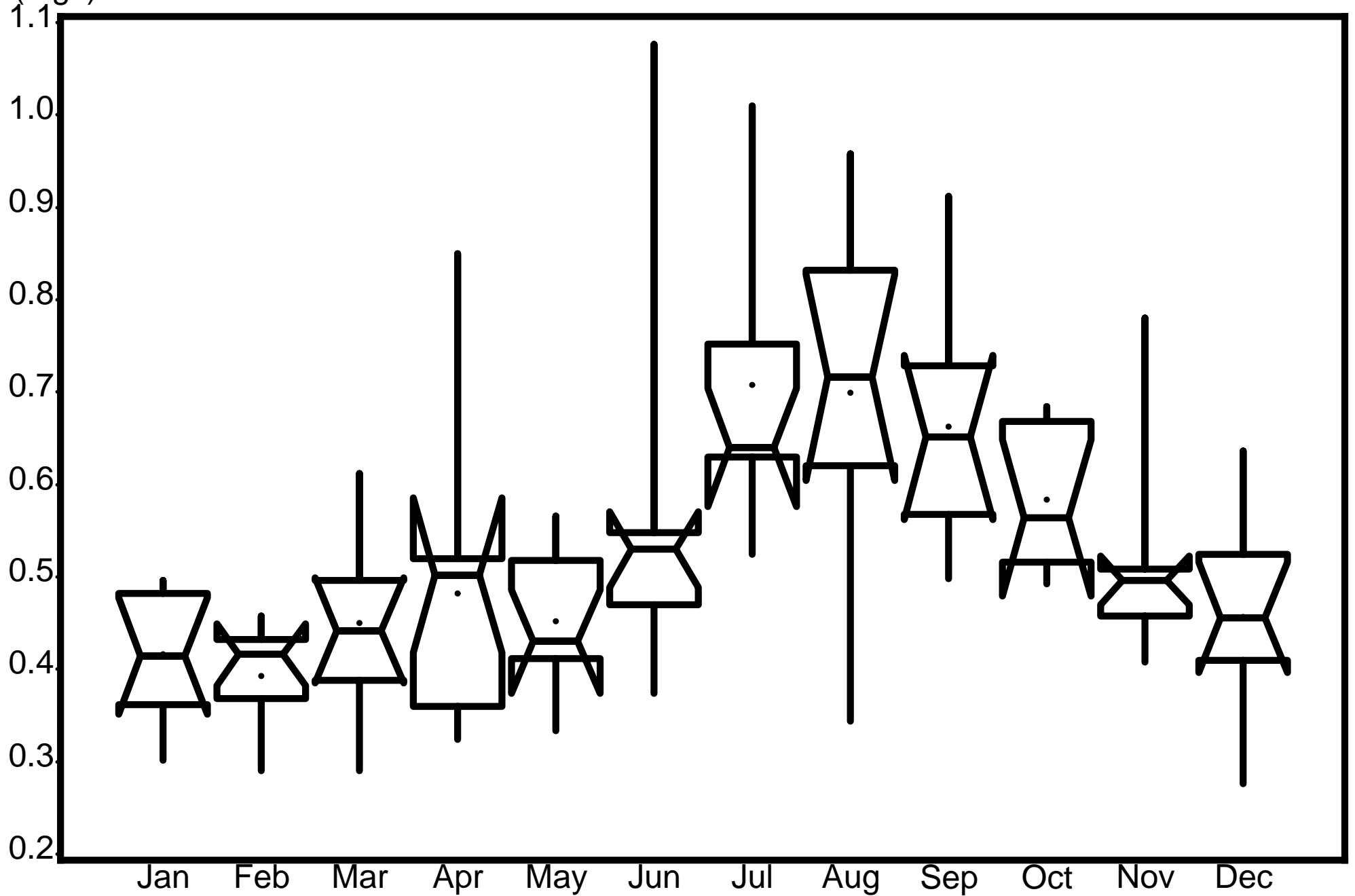


Upper Lemon Bay Trends Appendix - Display 2293

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay

TKN_mgl
(mg/l)



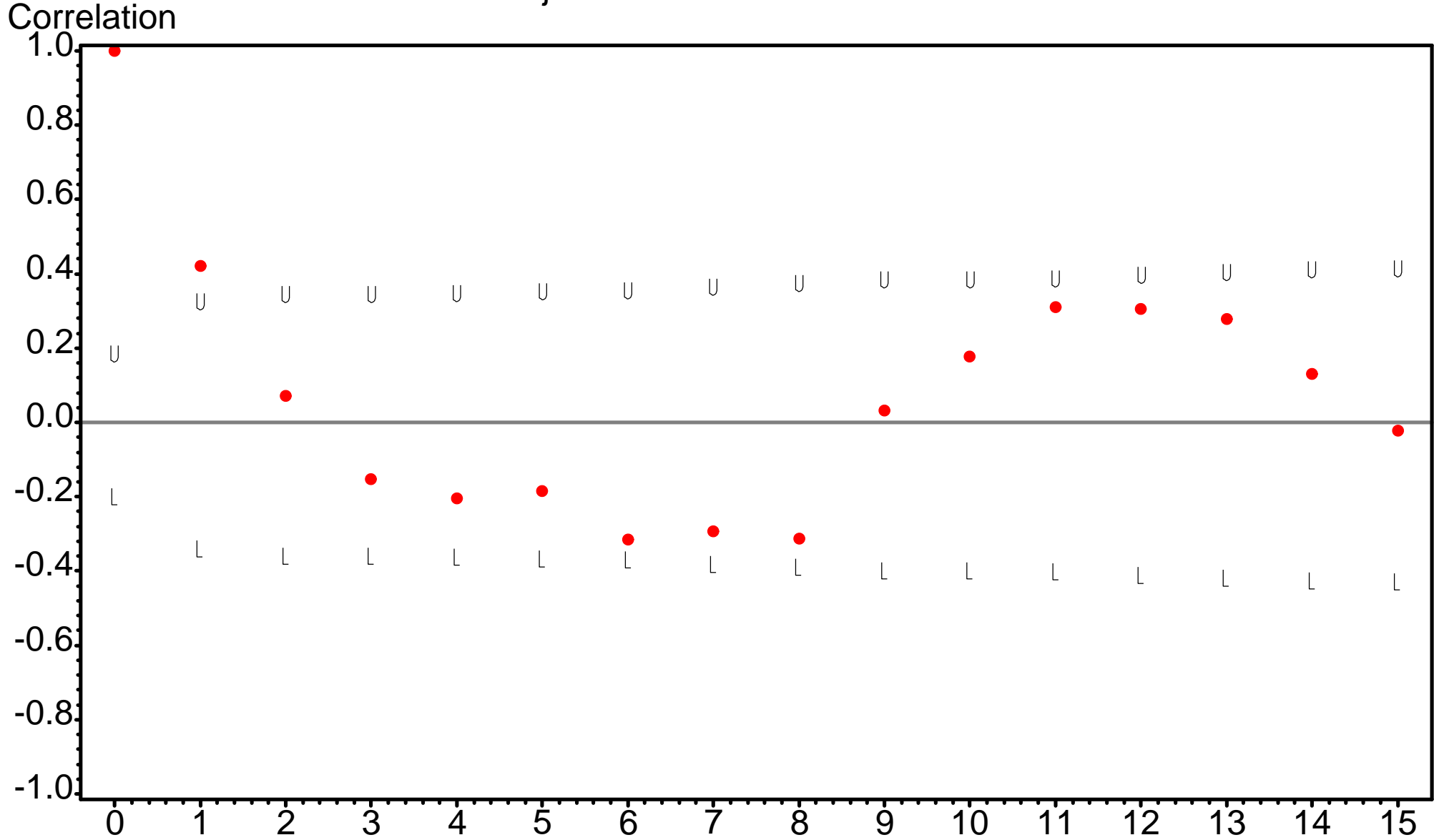
Upper Lemon Bay Trends Appendix - Display 2294
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.421	0.167	0.333	-0.333
2	0.071	0.176	0.353	-0.353
3	-0.152	0.177	0.353	-0.353
4	-0.205	0.178	0.355	-0.355
5	-0.185	0.180	0.360	-0.360
6	-0.314	0.182	0.363	-0.363
7	-0.292	0.187	0.373	-0.373
8	-0.312	0.191	0.382	-0.382
9	0.032	0.196	0.391	-0.391
10	0.177	0.196	0.391	-0.391
11	0.311	0.197	0.394	-0.394
12	0.305	0.202	0.403	-0.403
13	0.279	0.206	0.412	-0.412
14	0.131	0.209	0.418	-0.418
15	-0.022	0.210	0.420	-0.420

Upper Lemon Bay Trends Appendix - Display 2295

Correlogram for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2296
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.102	0.121	0.121	.008

Upper Lemon Bay Trends Appendix - Display 2297
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay
Adjusted for Seasonal Medians

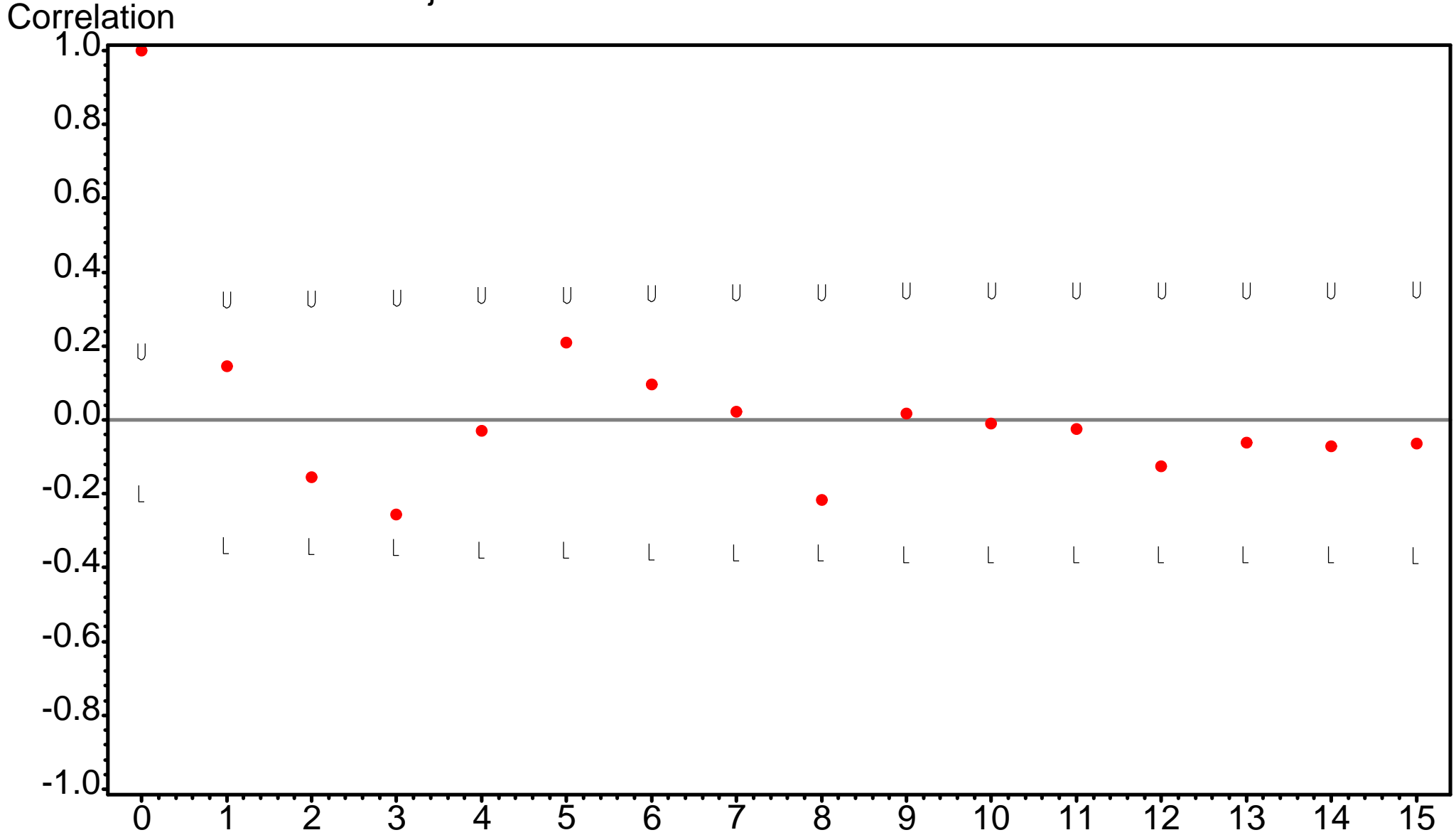
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10096	0.20591	0.13315	.00585714

Upper Lemon Bay Trends Appendix - Display 2299
 Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay
 Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.145	0.167	0.333	-0.333
2	-0.155	0.168	0.336	-0.336
3	-0.255	0.169	0.338	-0.338
4	-0.030	0.173	0.345	-0.345
5	0.209	0.173	0.345	-0.345
6	0.096	0.175	0.350	-0.350
7	0.022	0.176	0.351	-0.351
8	-0.217	0.176	0.351	-0.351
9	0.017	0.178	0.356	-0.356
10	-0.011	0.178	0.356	-0.356
11	-0.025	0.178	0.356	-0.356
12	-0.126	0.178	0.356	-0.356
13	-0.062	0.179	0.358	-0.358
14	-0.072	0.179	0.358	-0.358
15	-0.063	0.179	0.359	-0.359

Upper Lemon Bay Trends Appendix - Display 2300

Correlogram for Surface Total Kjeldahl Nitrogen in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

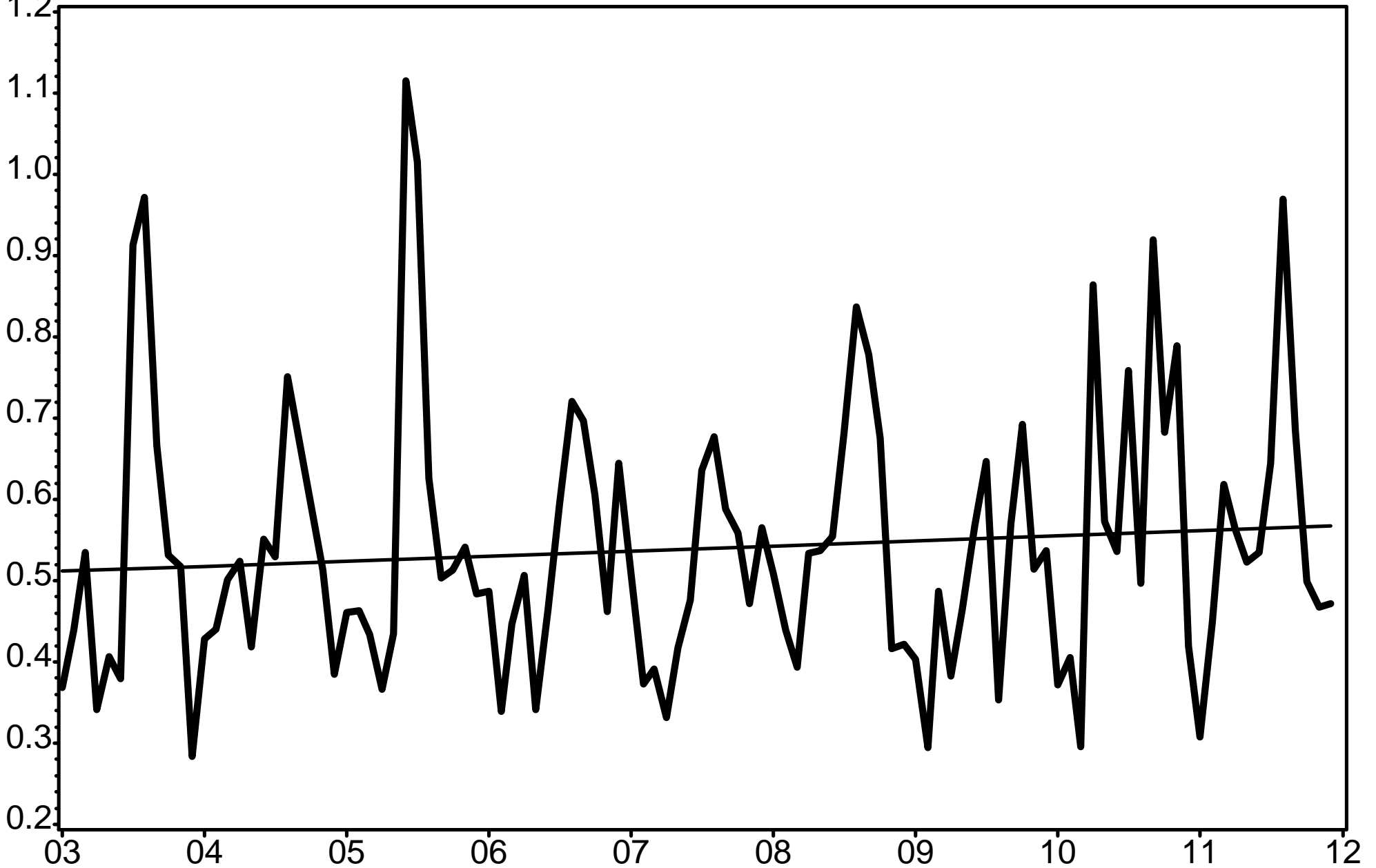
Upper Lemon Bay Trends Appendix - Display 2301

Monthly Data Time Series

for Surface Total Nitrogen in Upper Lemon Bay

Not Adjusted for Seasonal Medians

TN_mgl
(mg/l)



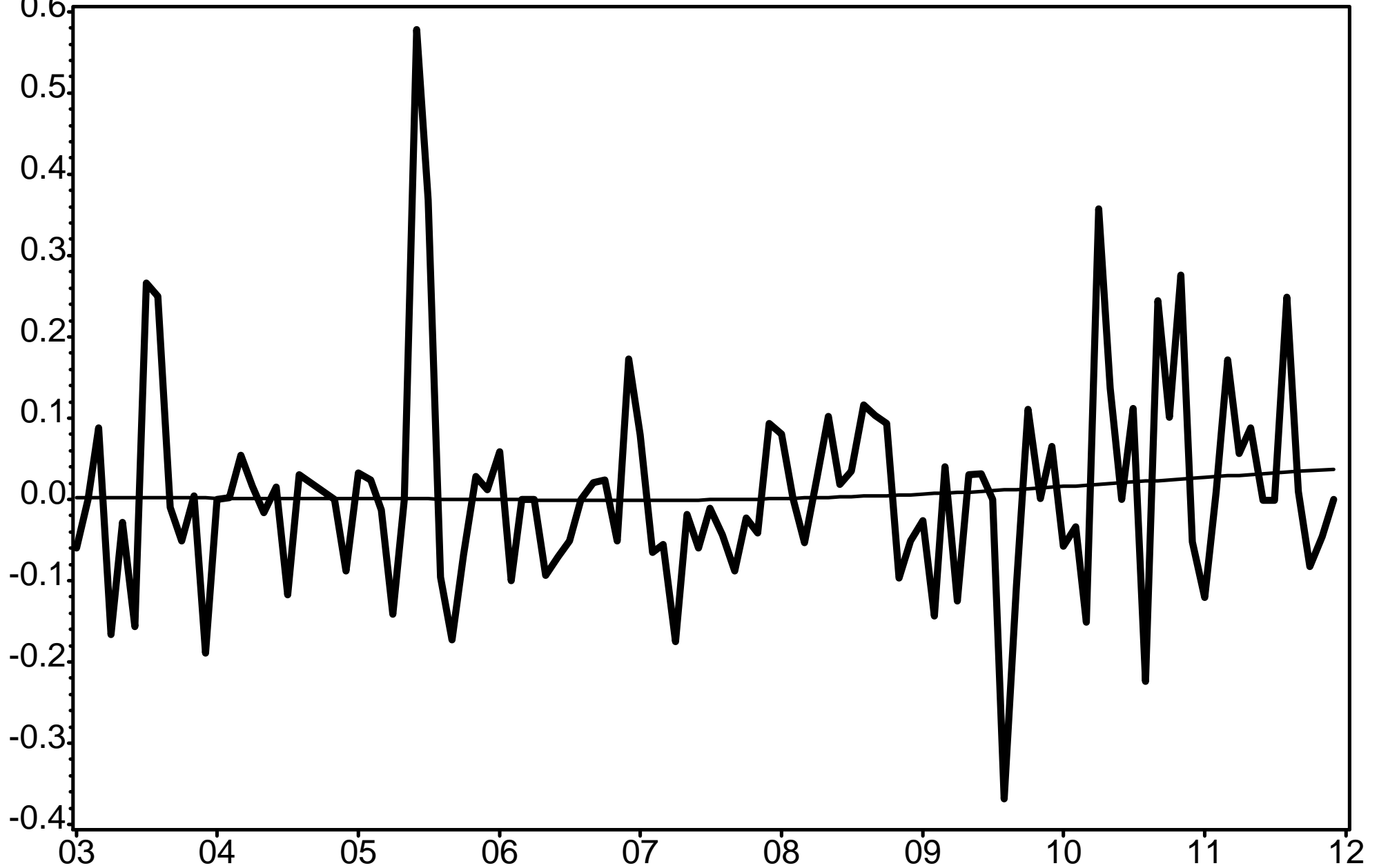
Upper Lemon Bay Trends Appendix - Display 2302

Monthly Data Time Series

for Surface Total Nitrogen in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TN_mgl
(mg/l)

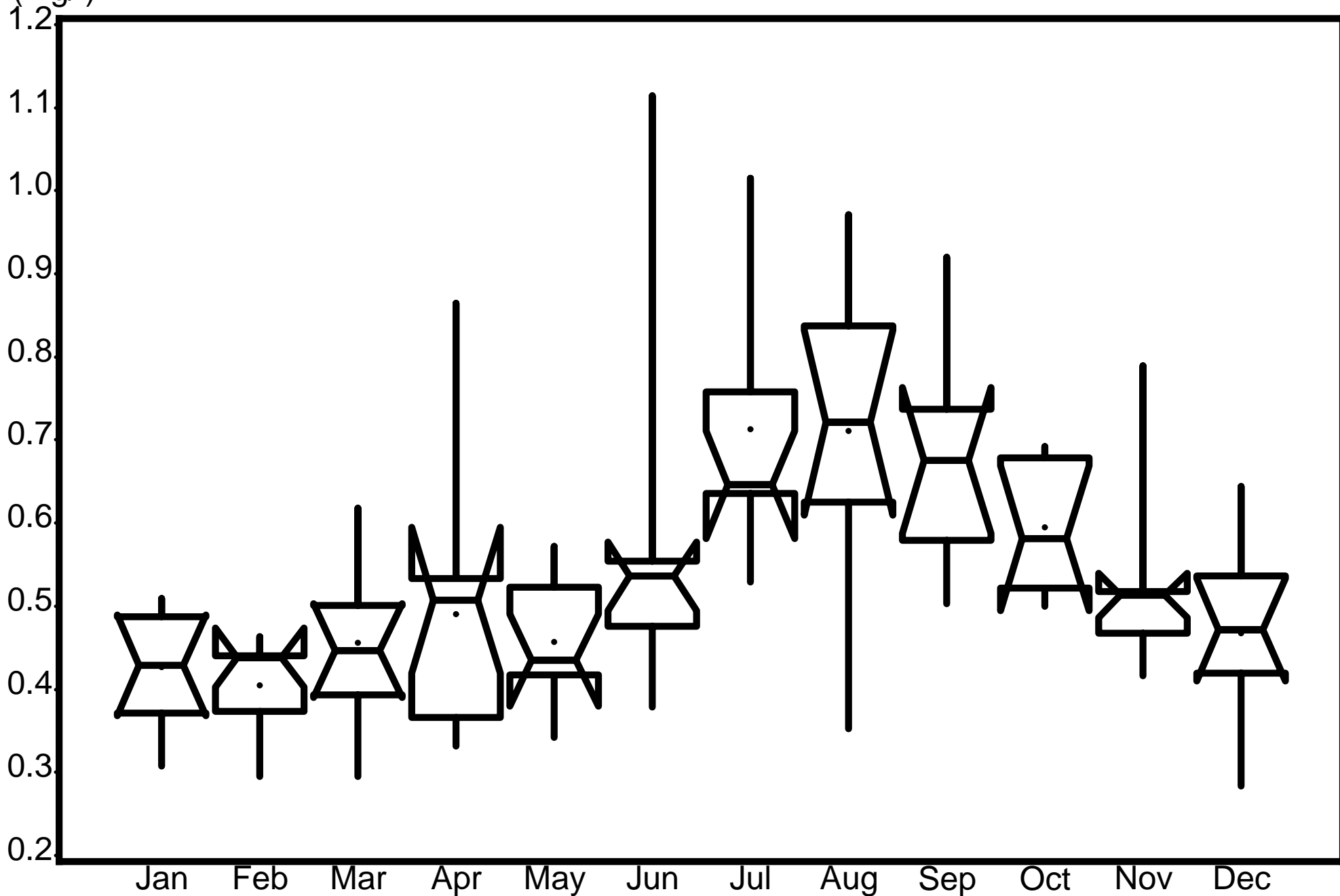


Upper Lemon Bay Trends Appendix - Display 2303

Seasonal Univariate Statistics

for Surface Total Nitrogen in Upper Lemon Bay

TN_mgl
(mg/l)



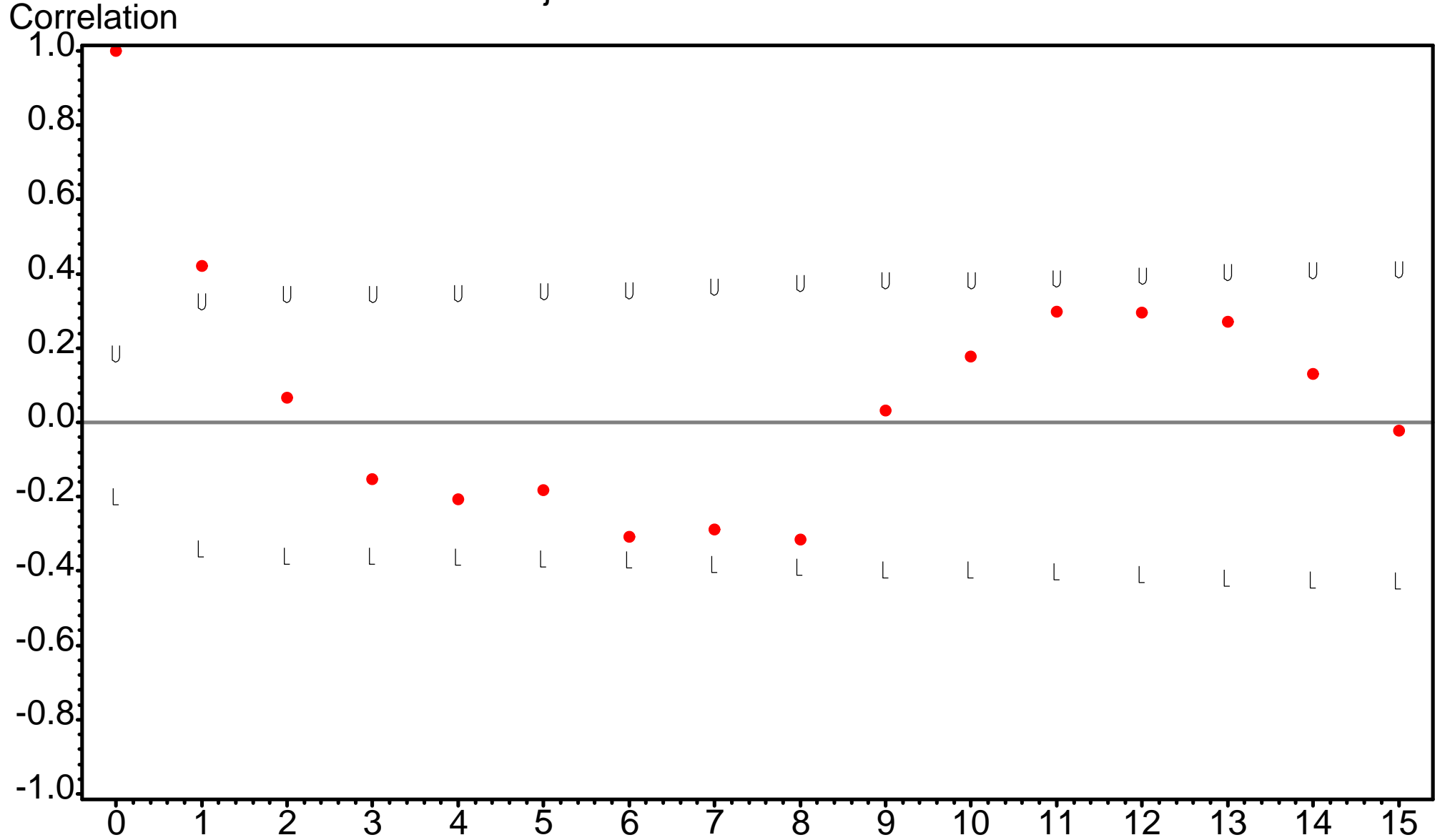
Upper Lemon Bay Trends Appendix - Display 2304
Autocorrelation Statistics for Surface Total Nitrogen in Upper Lemon Bay

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.420	0.167	0.333	-0.333
2	0.066	0.176	0.352	-0.352
3	-0.153	0.176	0.353	-0.353
4	-0.206	0.178	0.355	-0.355
5	-0.181	0.180	0.360	-0.360
6	-0.308	0.182	0.363	-0.363
7	-0.288	0.186	0.373	-0.373
8	-0.315	0.190	0.381	-0.381
9	0.032	0.195	0.390	-0.390
10	0.178	0.195	0.390	-0.390
11	0.299	0.197	0.393	-0.393
12	0.296	0.201	0.402	-0.402
13	0.272	0.205	0.410	-0.410
14	0.130	0.208	0.416	-0.416
15	-0.023	0.209	0.418	-0.418

Upper Lemon Bay Trends Appendix - Display 2305

Correlogram for Surface Total Nitrogen in Upper Lemon Bay

Unadjusted for Seasonal Median



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2306
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.11	0.094	0.094	.008

Upper Lemon Bay Trends Appendix - Display 2307
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10096	0.20591	0.15751	.00575

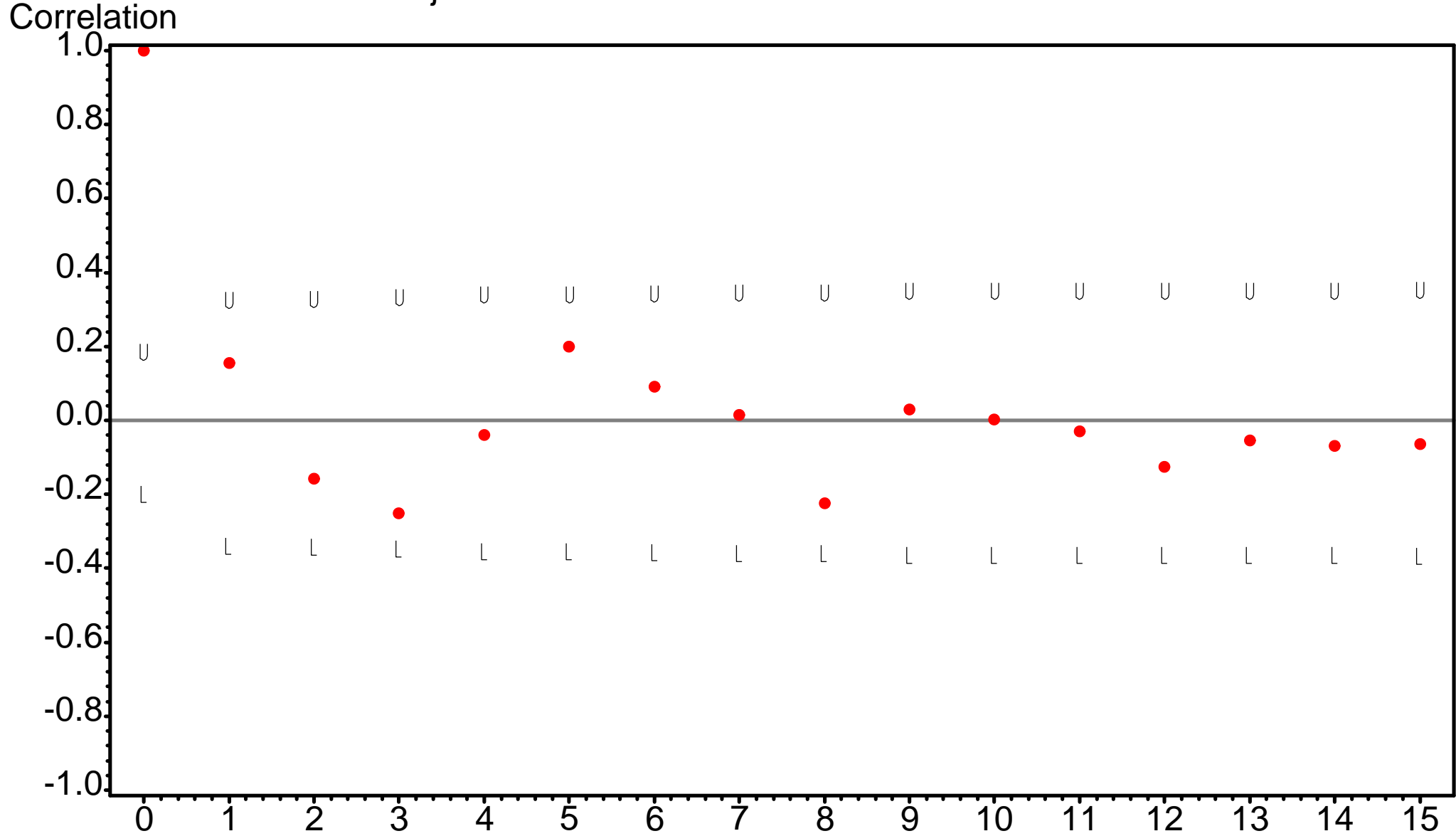
Upper Lemon Bay Trends Appendix - Display 2309
Autocorrelation Statistics for Surface Total Nitrogen in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.156	0.167	0.333	-0.333
2	-0.158	0.168	0.336	-0.336
3	-0.251	0.169	0.339	-0.339
4	-0.040	0.173	0.346	-0.346
5	0.200	0.173	0.346	-0.346
6	0.090	0.175	0.350	-0.350
7	0.014	0.175	0.351	-0.351
8	-0.223	0.175	0.351	-0.351
9	0.029	0.178	0.356	-0.356
10	0.002	0.178	0.356	-0.356
11	-0.029	0.178	0.356	-0.356
12	-0.125	0.178	0.356	-0.356
13	-0.055	0.179	0.358	-0.358
14	-0.069	0.179	0.358	-0.358
15	-0.065	0.179	0.359	-0.359

Upper Lemon Bay Trends Appendix - Display 2310

Correlogram for Surface Total Nitrogen in Upper Lemon Bay

Adjusted for Seasonal Median and Detrended



Lagged Total Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

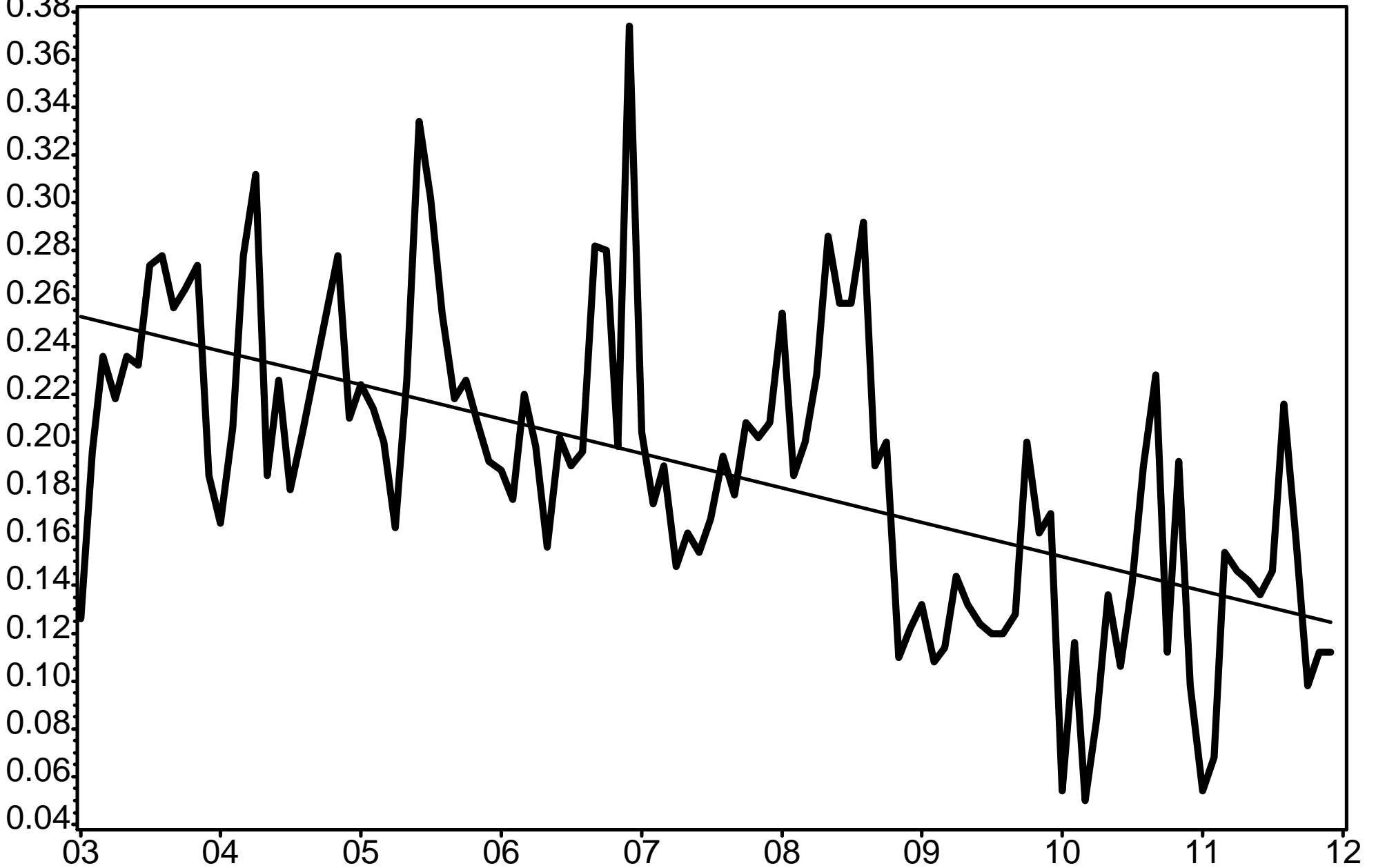
Upper Lemon Bay Trends Appendix - Display 2311

Monthly Data Time Series

for Surface Total Phosphorous in Upper Lemon Bay

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



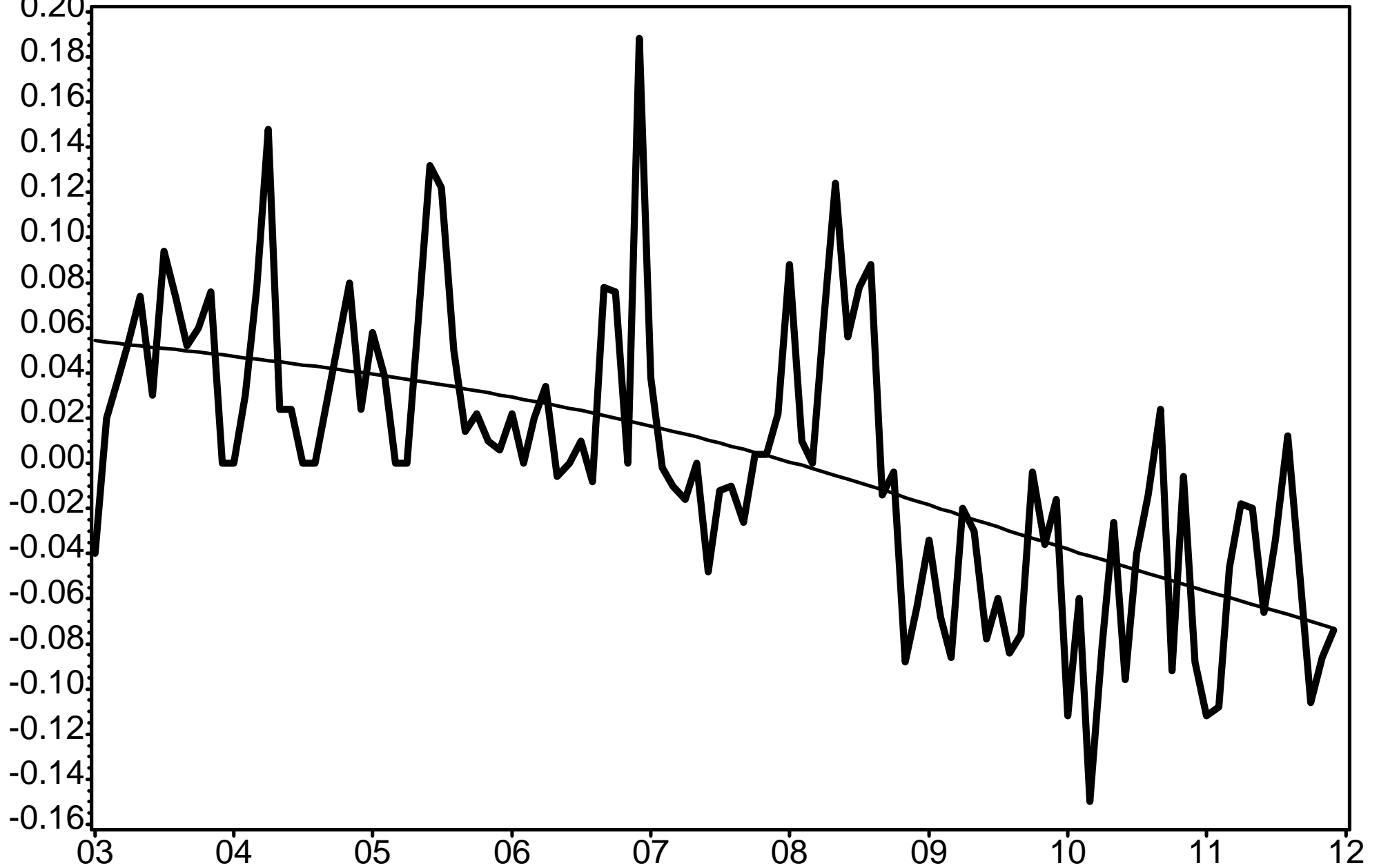
Upper Lemon Bay Trends Appendix - Display 2312

Monthly Data Time Series

for Surface Total Phosphorous in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

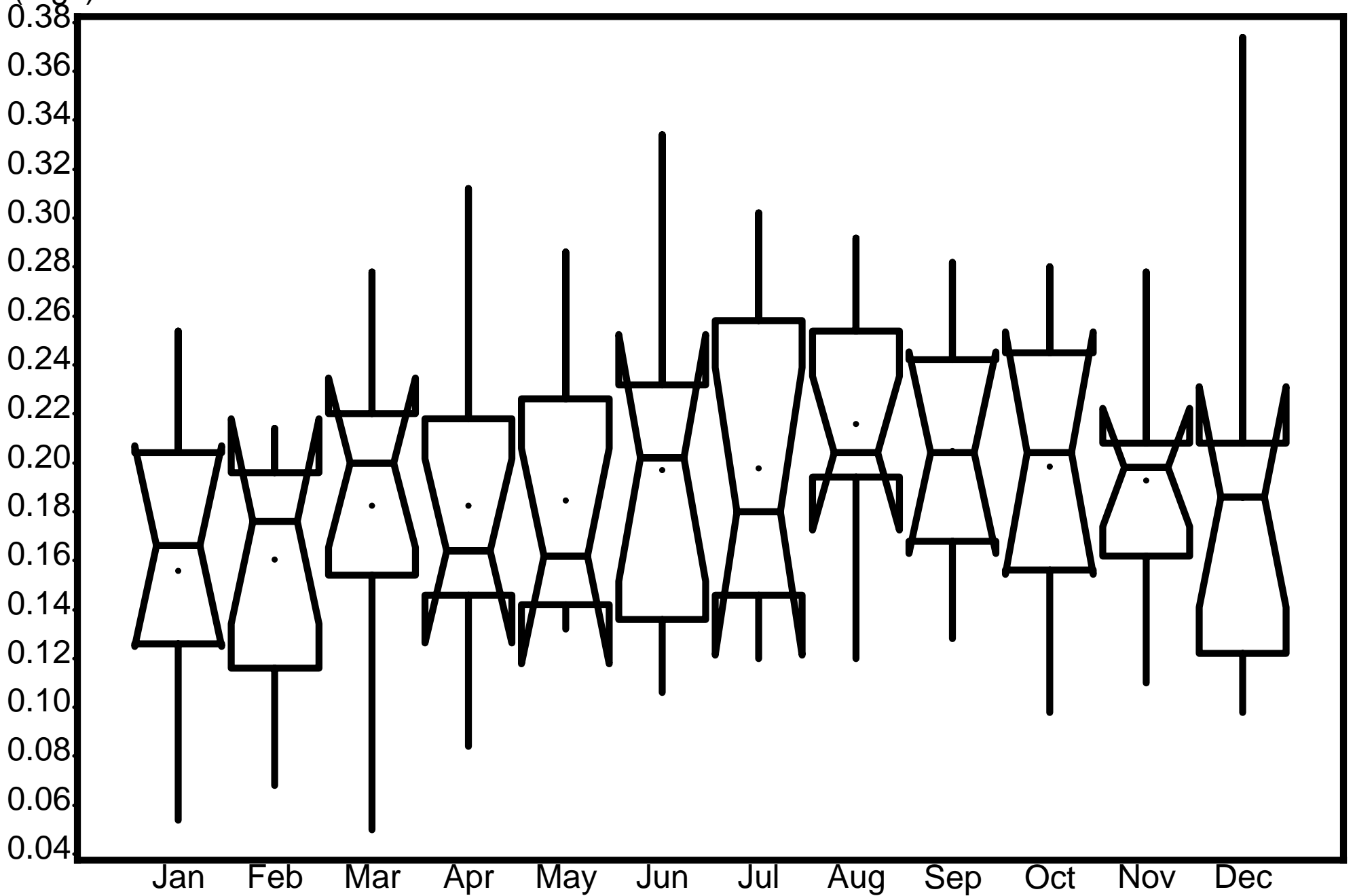


Upper Lemon Bay Trends Appendix - Display 2313

Seasonal Univariate Statistics

for Surface Total Phosphorous in Upper Lemon Bay

TP_mgl
(mg/l)



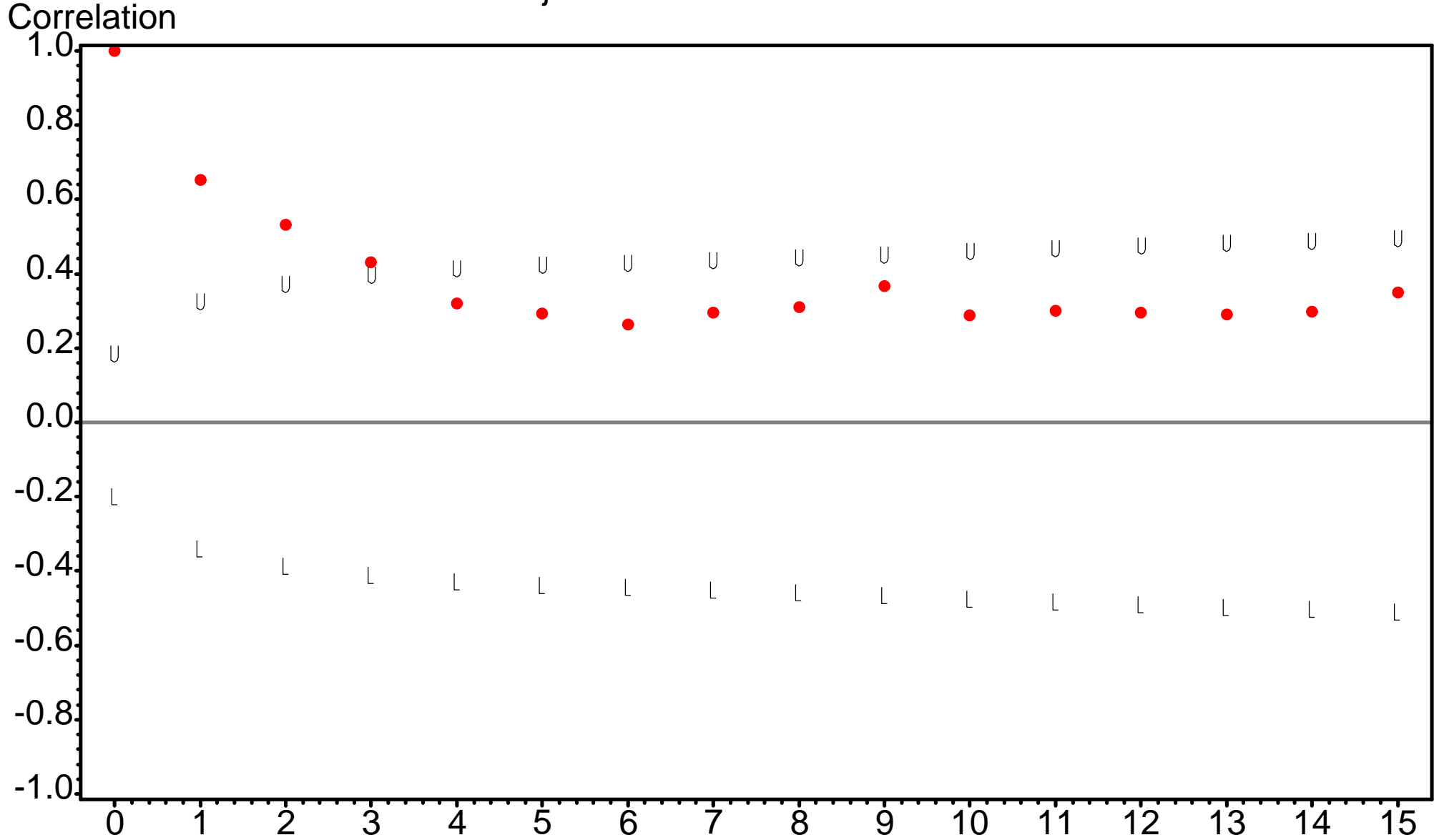
Upper Lemon Bay Trends Appendix - Display 2314
Autocorrelation Statistics for Surface Total Phosphorous in Upper Lemon Bay

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.652	0.167	0.333	-0.333
2	0.532	0.189	0.378	-0.378
3	0.431	0.202	0.404	-0.404
4	0.319	0.211	0.421	-0.421
5	0.294	0.215	0.430	-0.430
6	0.264	0.219	0.437	-0.437
7	0.295	0.222	0.443	-0.443
8	0.310	0.225	0.450	-0.450
9	0.366	0.229	0.458	-0.458
10	0.289	0.234	0.469	-0.469
11	0.301	0.238	0.475	-0.475
12	0.295	0.241	0.482	-0.482
13	0.290	0.245	0.489	-0.489
14	0.297	0.248	0.495	-0.495
15	0.349	0.251	0.502	-0.502

Upper Lemon Bay Trends Appendix - Display 2315

Correlogram for Surface Total Phosphorous in Upper Lemon Bay

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2316
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.43	0	0	-0.014

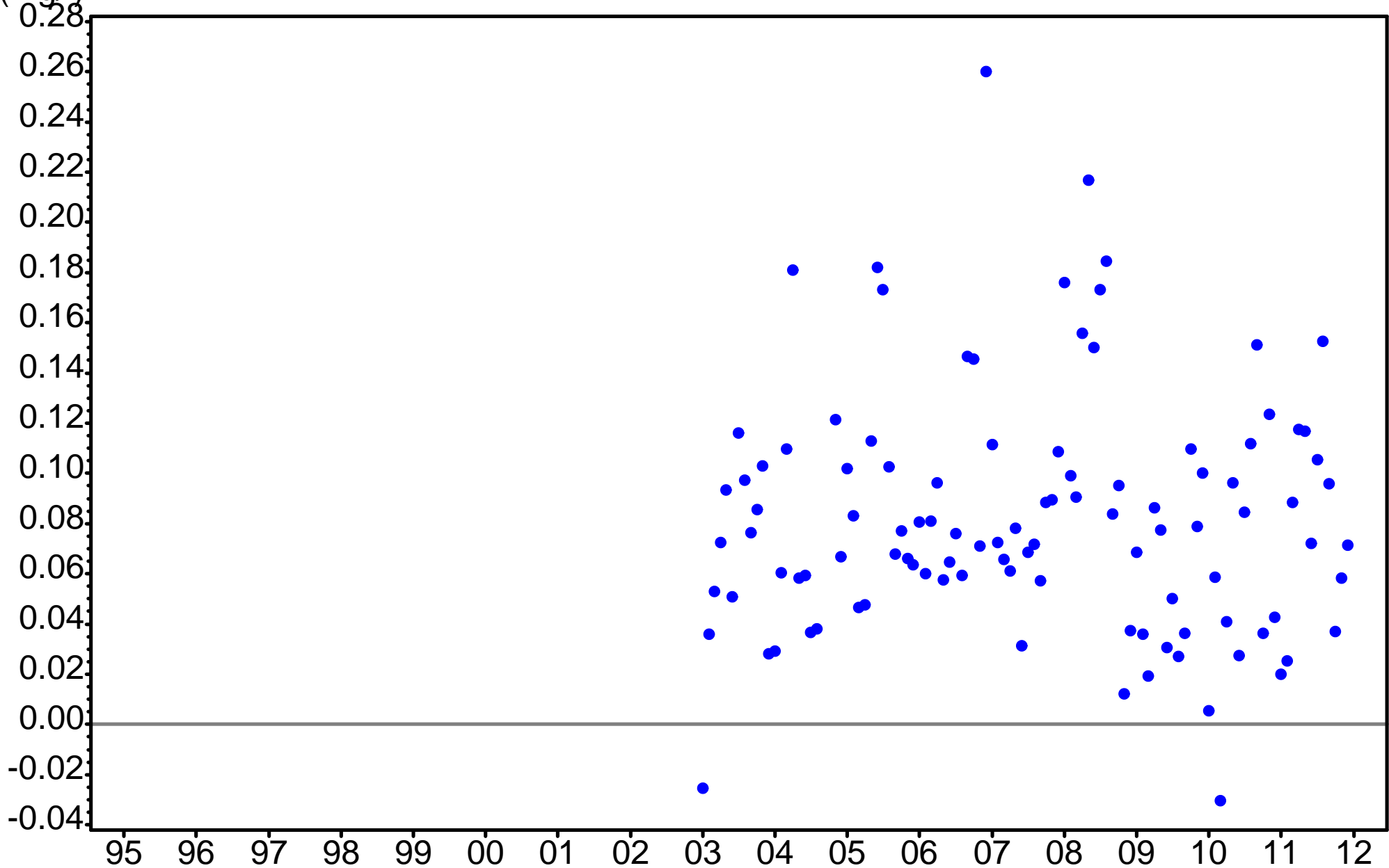
Upper Lemon Bay Trends Appendix - Display 2317
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.52644	0	0.010854	-0.014667

Upper Lemon Bay Trends Appendix - Display 2318

Time Series Plot of Surface Total Phosphorous Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(mg/l)



Zero Reference Line Shown

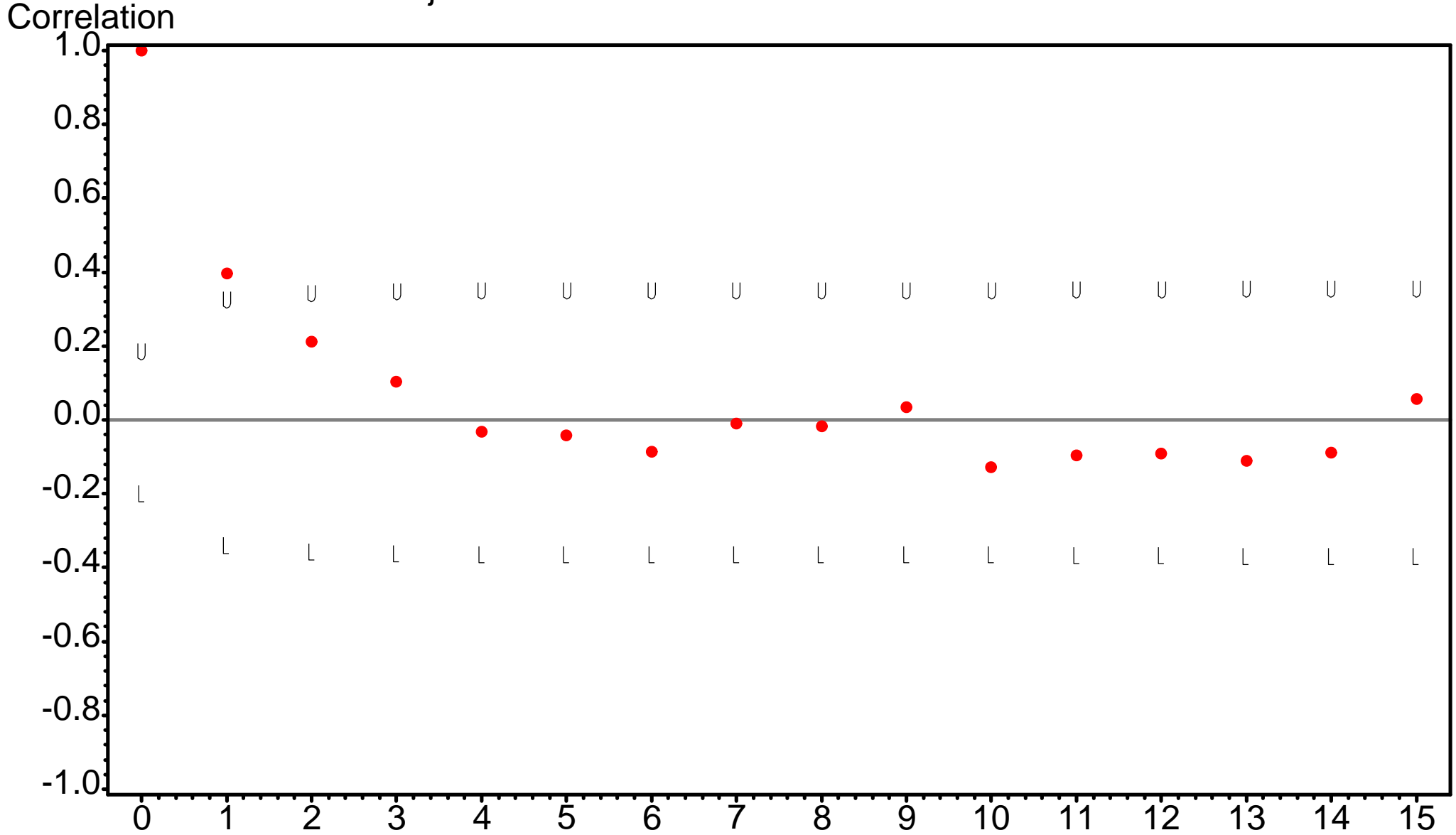
Upper Lemon Bay Trends Appendix - Display 2319
Autocorrelation Statistics for Surface Total Phosphorous in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.397	0.167	0.333	-0.333
2	0.212	0.175	0.350	-0.350
3	0.104	0.178	0.355	-0.355
4	-0.031	0.178	0.356	-0.356
5	-0.041	0.178	0.356	-0.356
6	-0.087	0.178	0.357	-0.357
7	-0.009	0.179	0.357	-0.357
8	-0.016	0.179	0.357	-0.357
9	0.035	0.179	0.357	-0.357
10	-0.129	0.179	0.357	-0.357
11	-0.097	0.180	0.359	-0.359
12	-0.092	0.180	0.360	-0.360
13	-0.111	0.181	0.361	-0.361
14	-0.089	0.181	0.362	-0.362
15	0.057	0.182	0.363	-0.363

Upper Lemon Bay Trends Appendix - Display 2320

Correlogram for Surface Total Phosphorous in Upper Lemon Bay

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

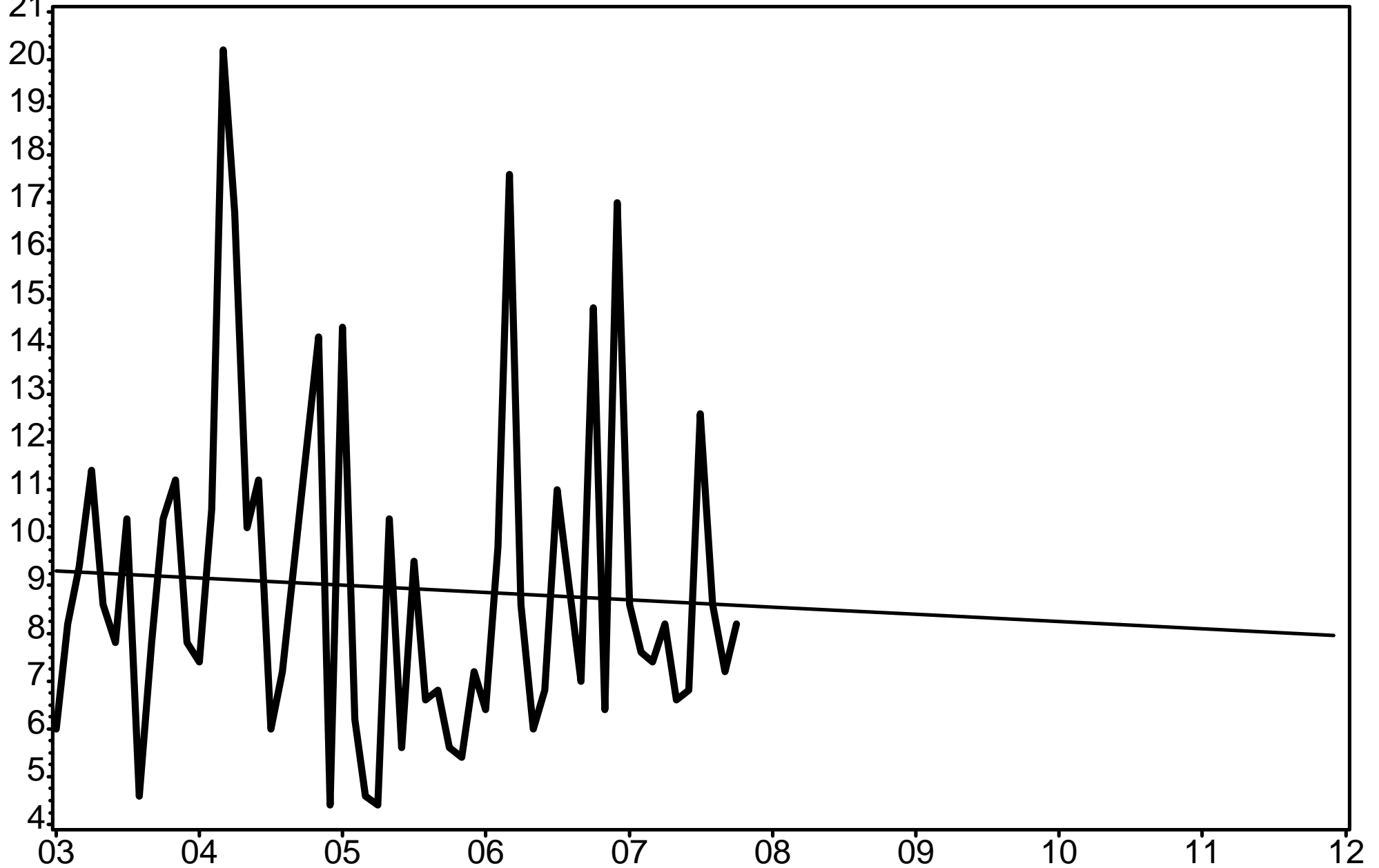
Upper Lemon Bay Trends Appendix - Display 2321

Monthly Data Time Series

for Surface Total Suspended Solids in Upper Lemon Bay

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



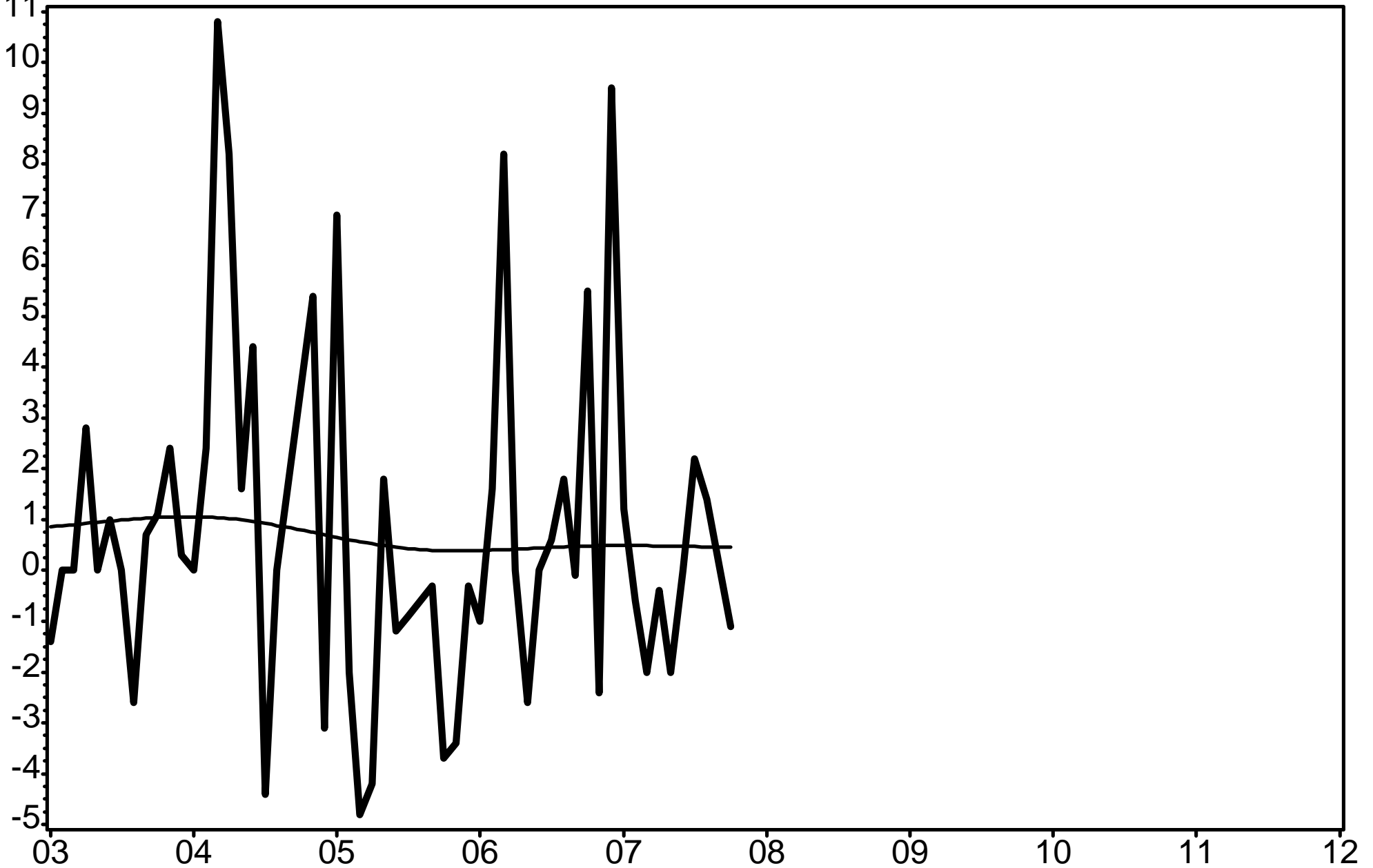
Upper Lemon Bay Trends Appendix - Display 2322

Monthly Data Time Series

for Surface Total Suspended Solids in Upper Lemon Bay

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

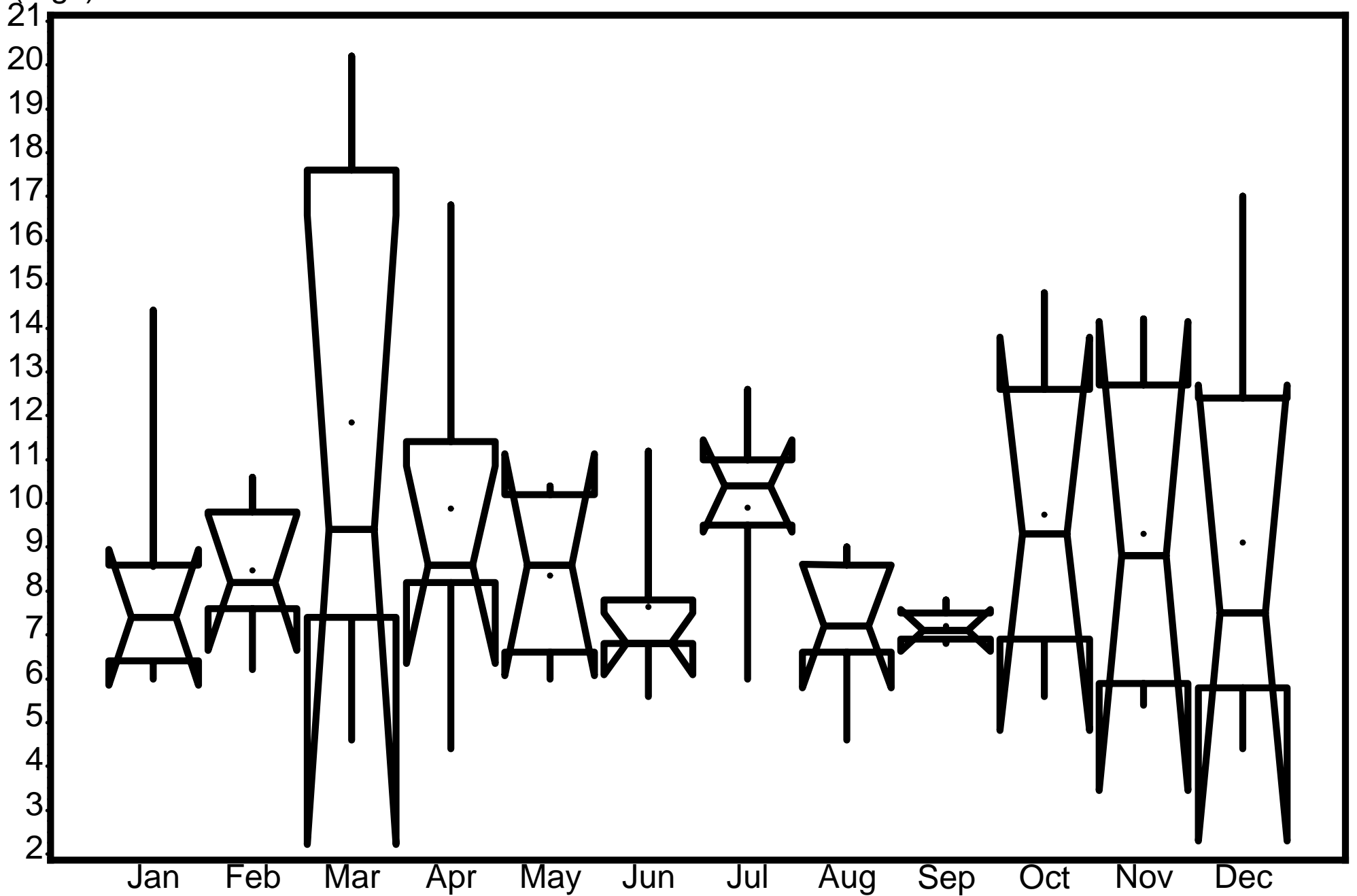


Upper Lemon Bay Trends Appendix - Display 2323

Seasonal Univariate Statistics

for Surface Total Suspended Solids in Upper Lemon Bay

TSS_mgl
(mg/l)

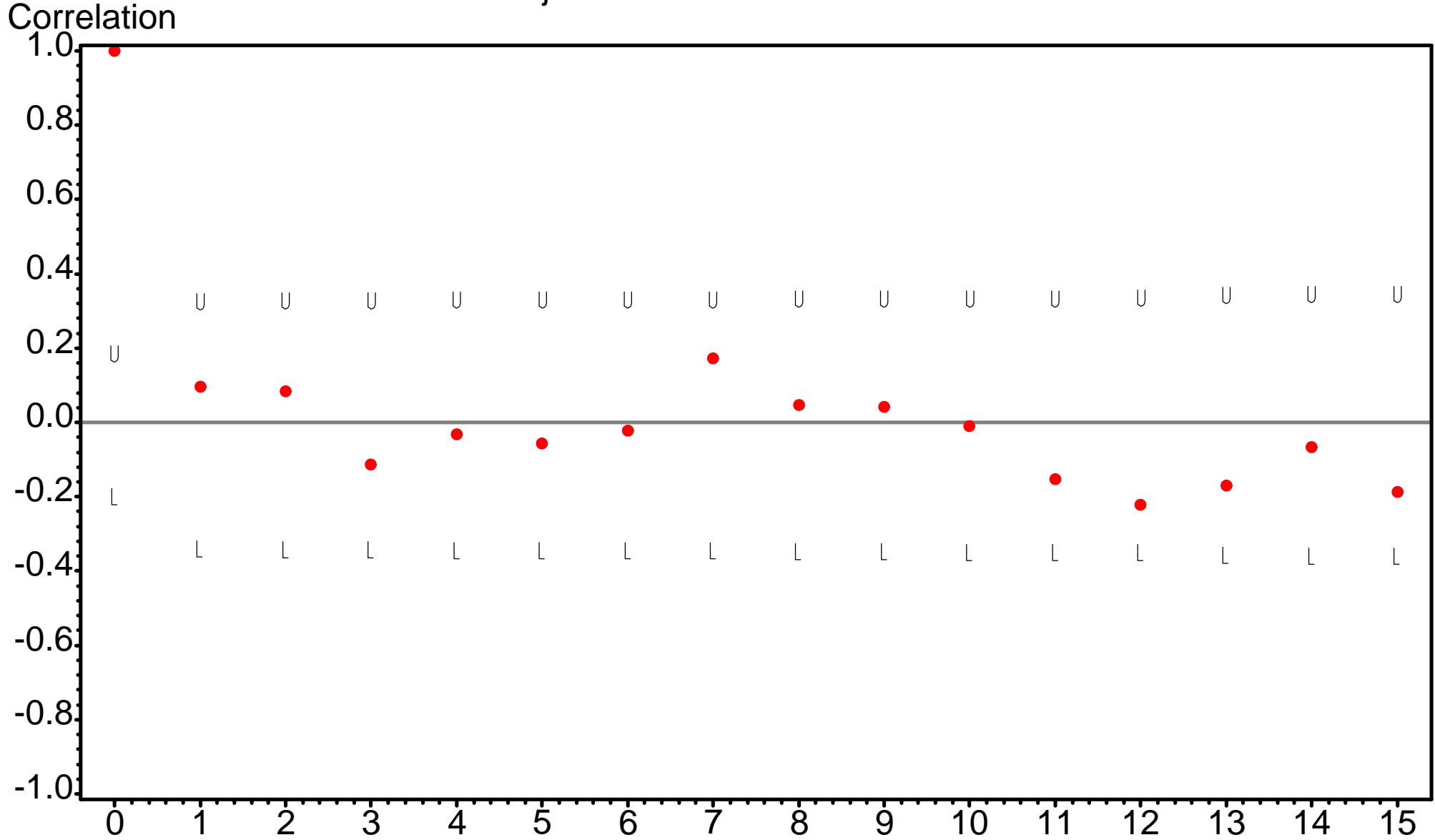


Upper Lemon Bay Trends Appendix - Display 2324
Autocorrelation Statistics for Surface Total Suspended Solids in Upper Lemon Bay

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.096	0.167	0.333	-0.333
2	0.083	0.167	0.334	-0.334
3	-0.112	0.168	0.335	-0.335
4	-0.033	0.168	0.337	-0.337
5	-0.056	0.168	0.337	-0.337
6	-0.022	0.168	0.337	-0.337
7	0.172	0.169	0.337	-0.337
8	0.047	0.170	0.340	-0.340
9	0.042	0.170	0.340	-0.340
10	-0.010	0.170	0.341	-0.341
11	-0.153	0.170	0.341	-0.341
12	-0.222	0.172	0.343	-0.343
13	-0.169	0.174	0.349	-0.349
14	-0.066	0.176	0.352	-0.352
15	-0.186	0.176	0.352	-0.352

Upper Lemon Bay Trends Appendix - Display 2325

Correlogram for Surface Total Suspended Solids in Upper Lemon Bay Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2326
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.036	0.702	0.702	-0.116

Upper Lemon Bay Trends Appendix - Display 2327
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in Upper Lemon Bay
Adjusted for Seasonal Medians

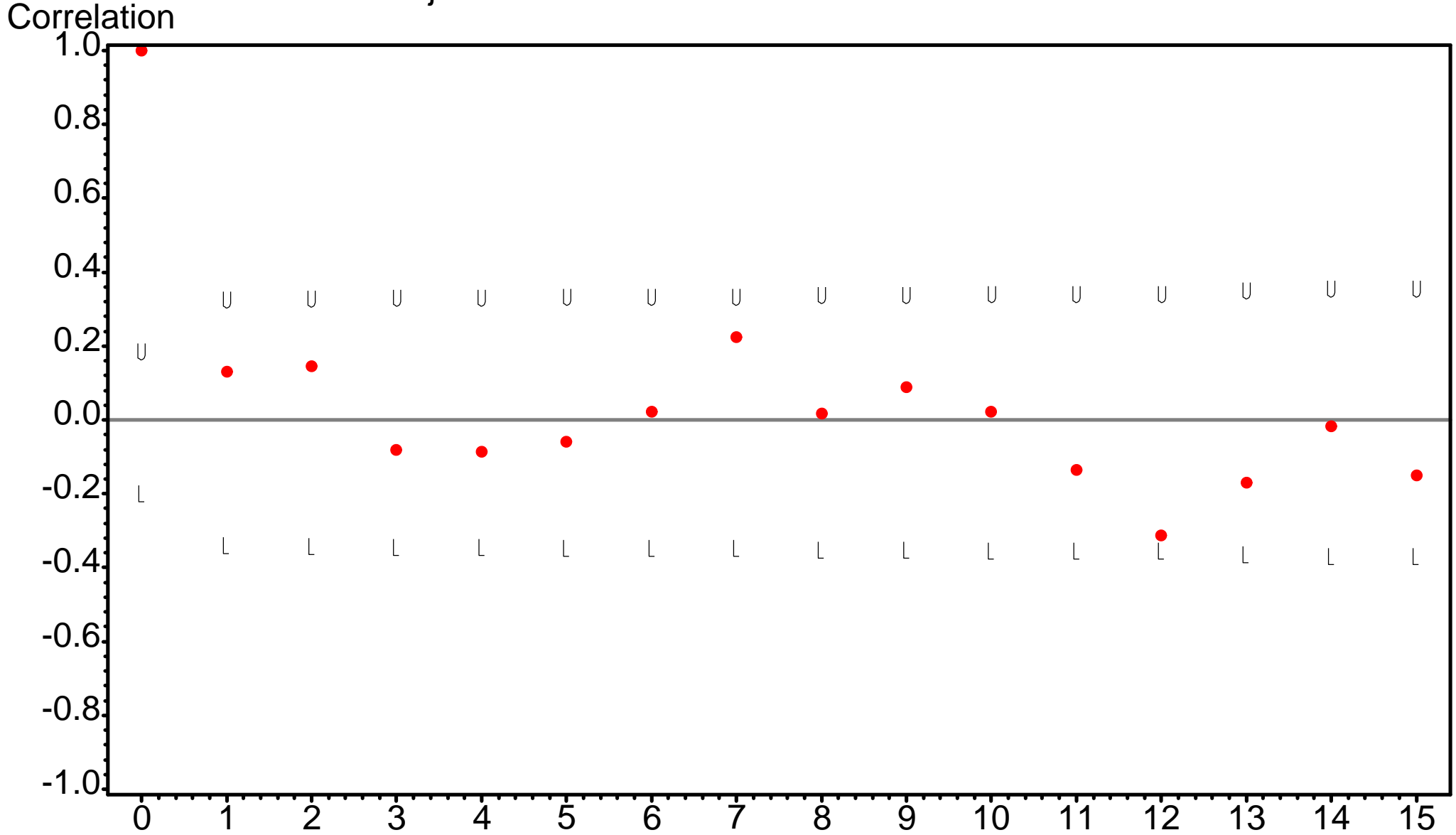
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.028846	0.87701	0.91056	0.16667

Upper Lemon Bay Trends Appendix - Display 2329
Autocorrelation Statistics for Surface Total Suspended Solids in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.130	0.167	0.333	-0.333
2	0.146	0.168	0.335	-0.335
3	-0.081	0.169	0.338	-0.338
4	-0.085	0.169	0.338	-0.338
5	-0.059	0.170	0.339	-0.339
6	0.021	0.170	0.339	-0.339
7	0.223	0.170	0.339	-0.339
8	0.018	0.172	0.345	-0.345
9	0.089	0.172	0.345	-0.345
10	0.022	0.173	0.346	-0.346
11	-0.136	0.173	0.346	-0.346
12	-0.313	0.174	0.348	-0.348
13	-0.171	0.179	0.358	-0.358
14	-0.018	0.181	0.361	-0.361
15	-0.149	0.181	0.361	-0.361

Upper Lemon Bay Trends Appendix - Display 2330

Correlogram for Surface Total Suspended Solids in Upper Lemon Bay Adjusted for Seasonal Median and Detrended



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

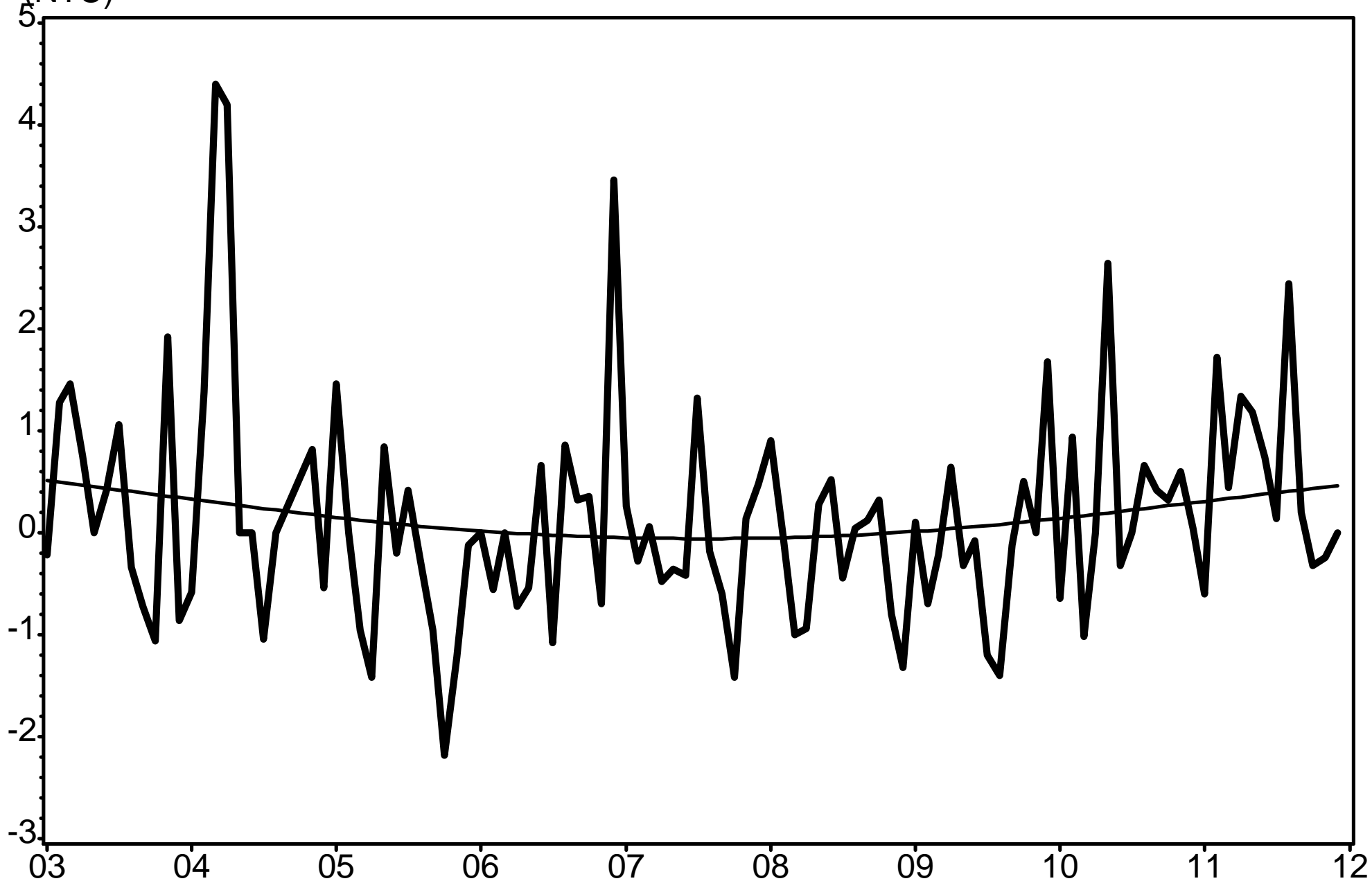
Upper Lemon Bay Trends Appendix - Display 2332

Monthly Data Time Series

for Surface Turbidity in Upper Lemon Bay

Adjusted for Seasonal Medians

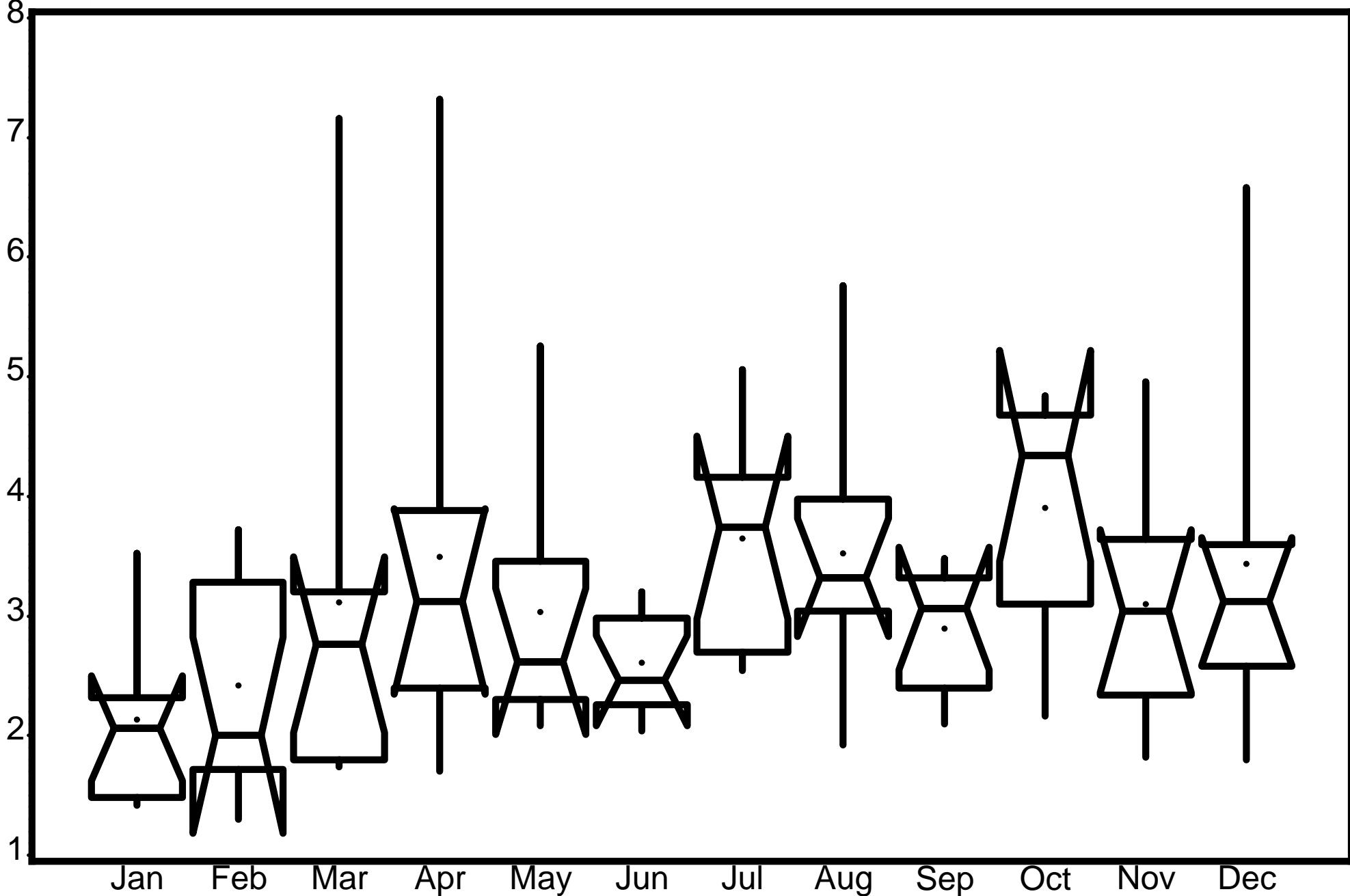
Adjusted
Turb
(NTU)



Upper Lemon Bay Trends Appendix - Display 2333

Seasonal Univariate Statistics for Surface Turbidity in Upper Lemon Bay

Turb
(NTU)

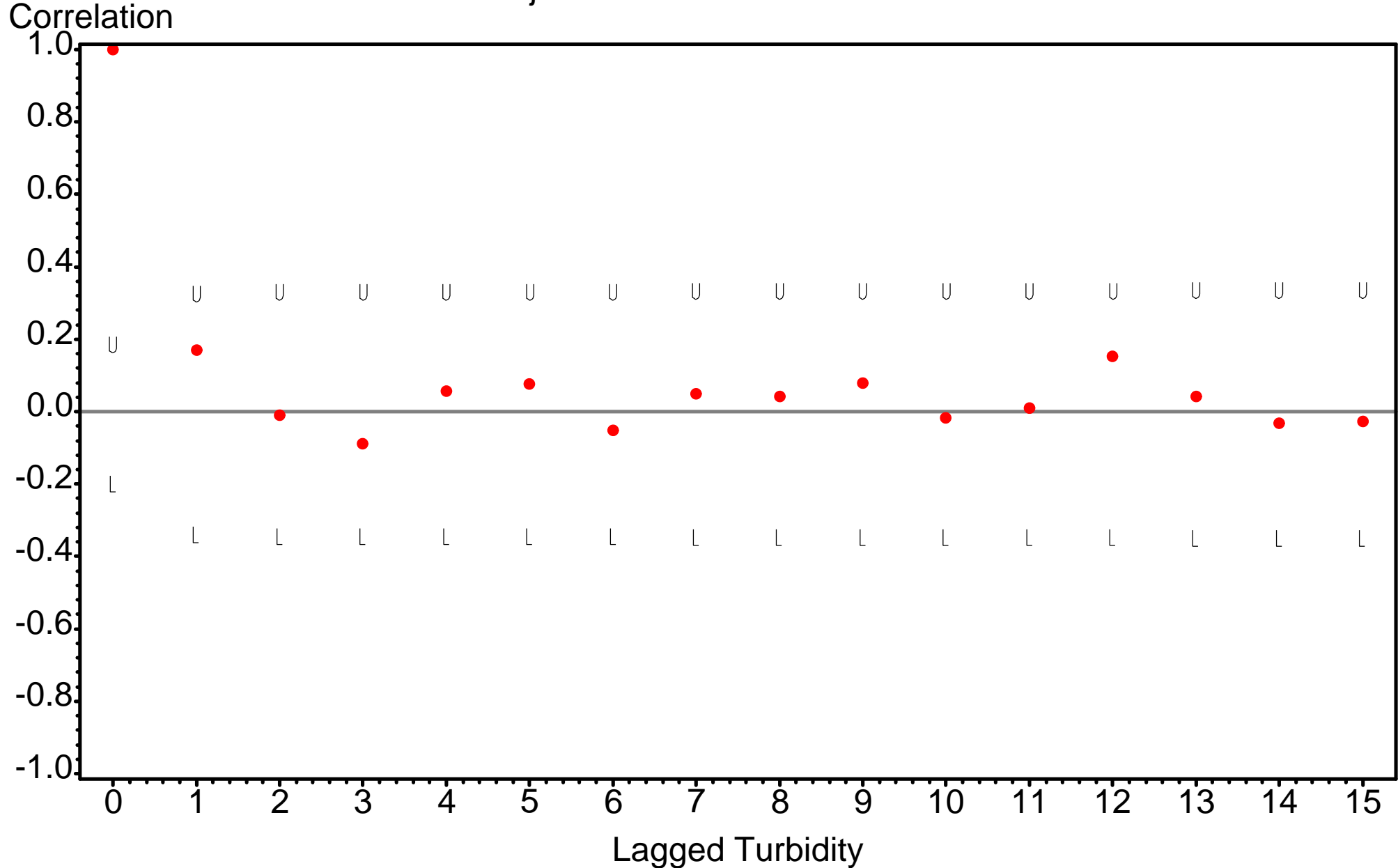


Upper Lemon Bay Trends Appendix - Display 2334
 Autocorrelation Statistics for Surface Turbidity in Upper Lemon Bay

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.171	0.167	0.333	-0.333
2	-0.010	0.168	0.337	-0.337
3	-0.088	0.168	0.337	-0.337
4	0.056	0.169	0.337	-0.337
5	0.077	0.169	0.338	-0.338
6	-0.052	0.169	0.338	-0.338
7	0.050	0.169	0.339	-0.339
8	0.043	0.170	0.339	-0.339
9	0.080	0.170	0.339	-0.339
10	-0.016	0.170	0.340	-0.340
11	0.011	0.170	0.340	-0.340
12	0.152	0.170	0.340	-0.340
13	0.041	0.171	0.342	-0.342
14	-0.031	0.171	0.343	-0.343
15	-0.027	0.171	0.343	-0.343

Upper Lemon Bay Trends Appendix - Display 2335

Correlogram for Surface Turbidity in Upper Lemon Bay Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2336
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Upper Lemon Bay
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.083	0.209	0.209	0.057

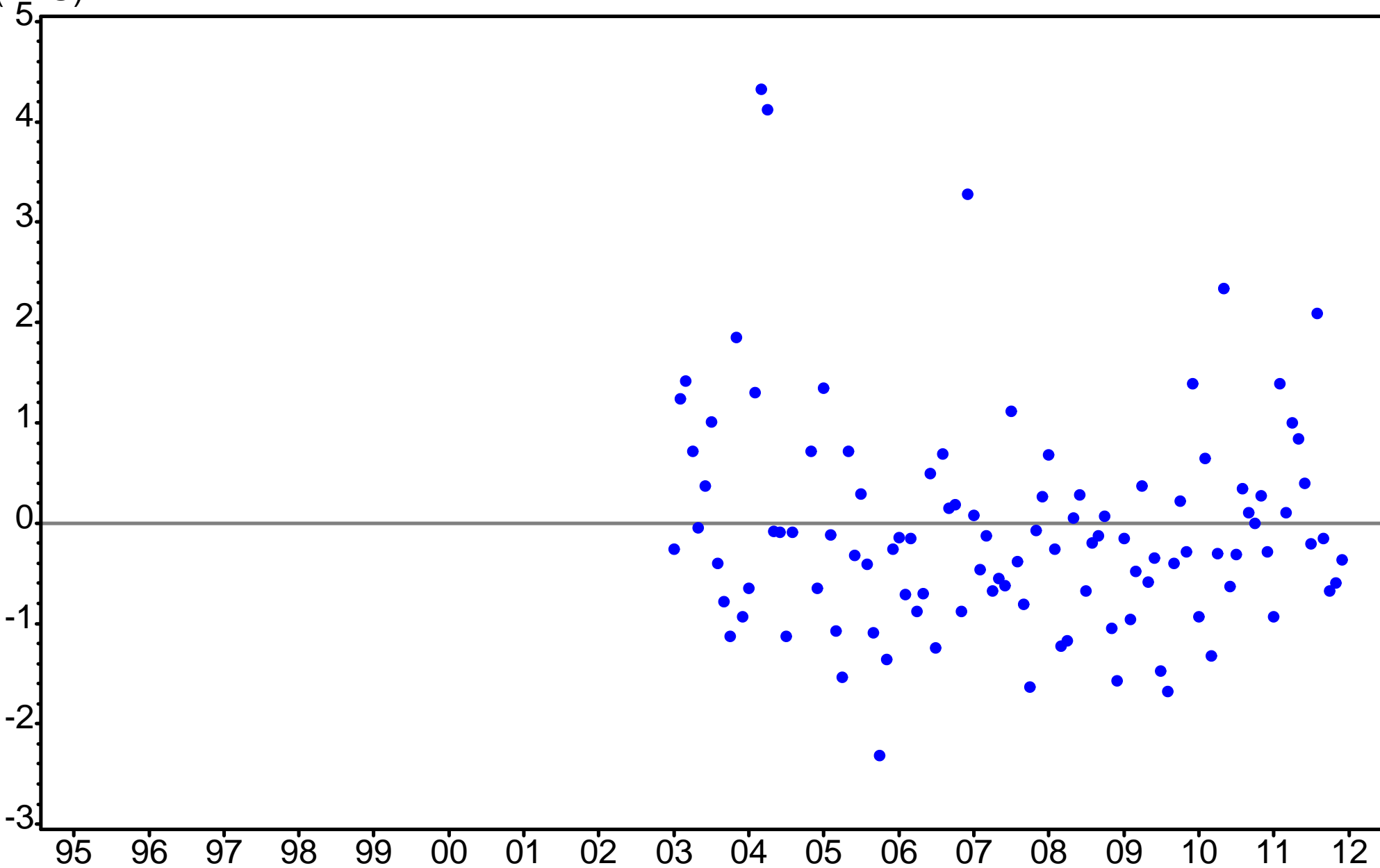
Upper Lemon Bay Trends Appendix - Display 2337
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in Upper Lemon Bay
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.067308	0.40441	0.41993	0.036667

Upper Lemon Bay Trends Appendix - Display 2338

Time Series Plot of Surface Turbidity Data Adjusted for Season and Detrended
Upper Lemon Bay

Adjusted
(NTU)



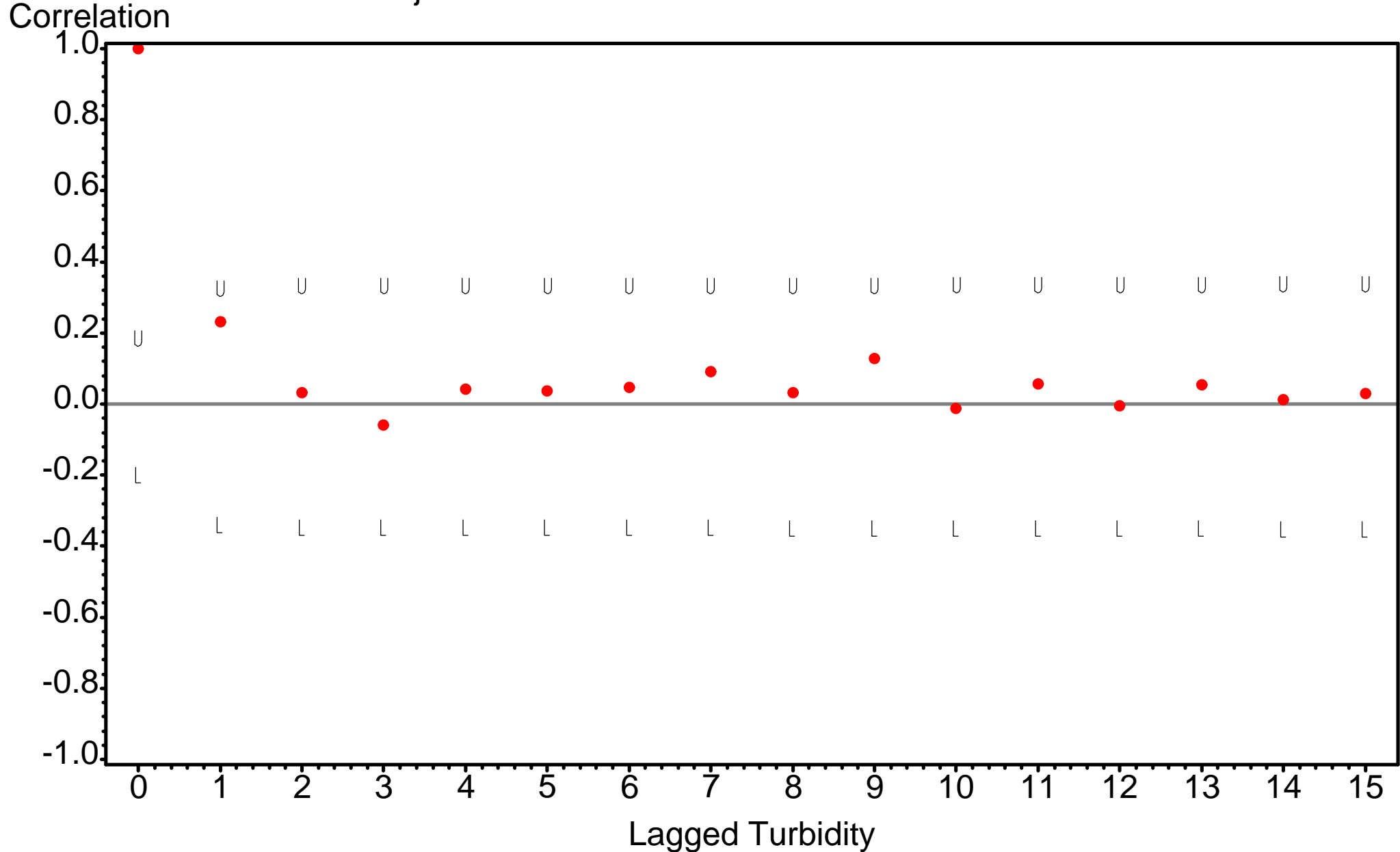
Zero Reference Line Shown

Upper Lemon Bay Trends Appendix - Display 2339
Autocorrelation Statistics for Surface Turbidity in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.231	0.167	0.333	-0.333
2	0.031	0.170	0.339	-0.339
3	-0.058	0.170	0.339	-0.339
4	0.041	0.170	0.340	-0.340
5	0.038	0.170	0.340	-0.340
6	0.046	0.170	0.340	-0.340
7	0.090	0.170	0.340	-0.340
8	0.032	0.171	0.341	-0.341
9	0.127	0.171	0.341	-0.341
10	-0.013	0.171	0.343	-0.343
11	0.057	0.171	0.343	-0.343
12	-0.006	0.172	0.343	-0.343
13	0.055	0.172	0.343	-0.343
14	0.012	0.172	0.344	-0.344
15	0.029	0.172	0.344	-0.344

Upper Lemon Bay Trends Appendix - Display 2340

Correlogram for Surface Turbidity in Upper Lemon Bay
Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

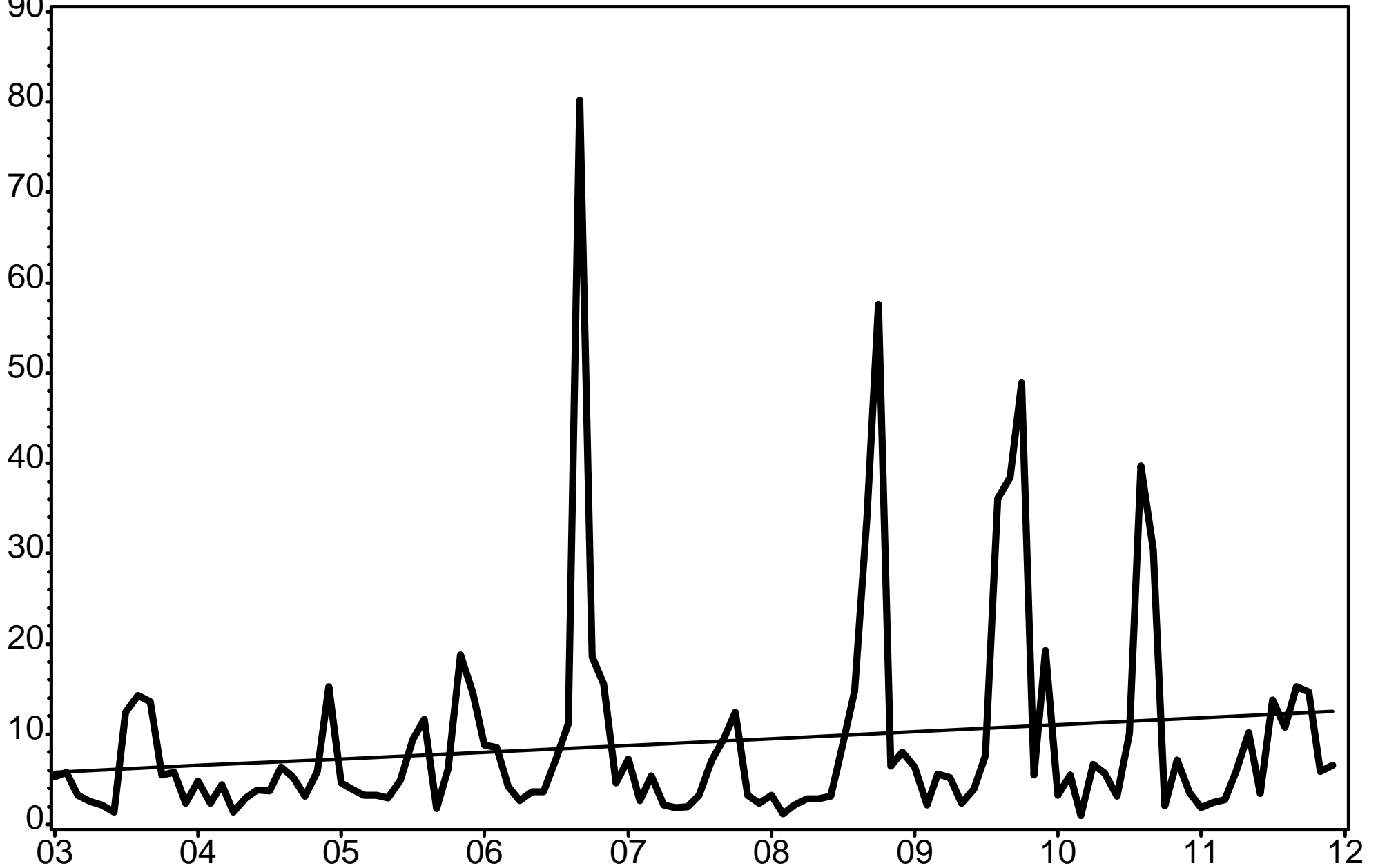
West Wall Trends Appendix - Display 2341

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in West Wall

Not Adjusted for Seasonal Medians

CHLAC_ugl
(ug/l)



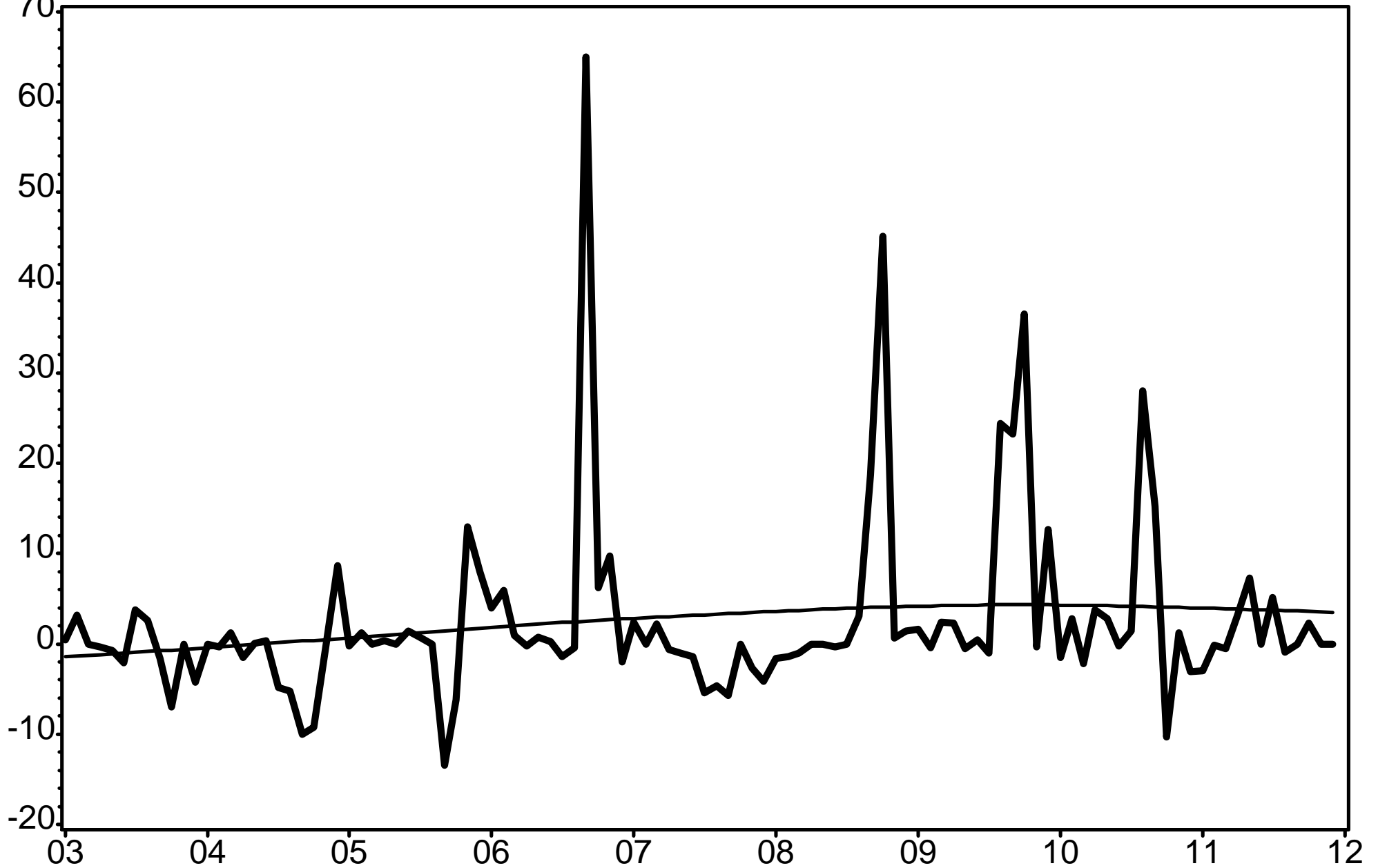
West Wall Trends Appendix - Display 2342

Monthly Data Time Series

for Surface Chlorophyll-a (Corrected) in West Wall

Adjusted for Seasonal Medians

Adjusted
CHLAC_ugl
(ug/l)

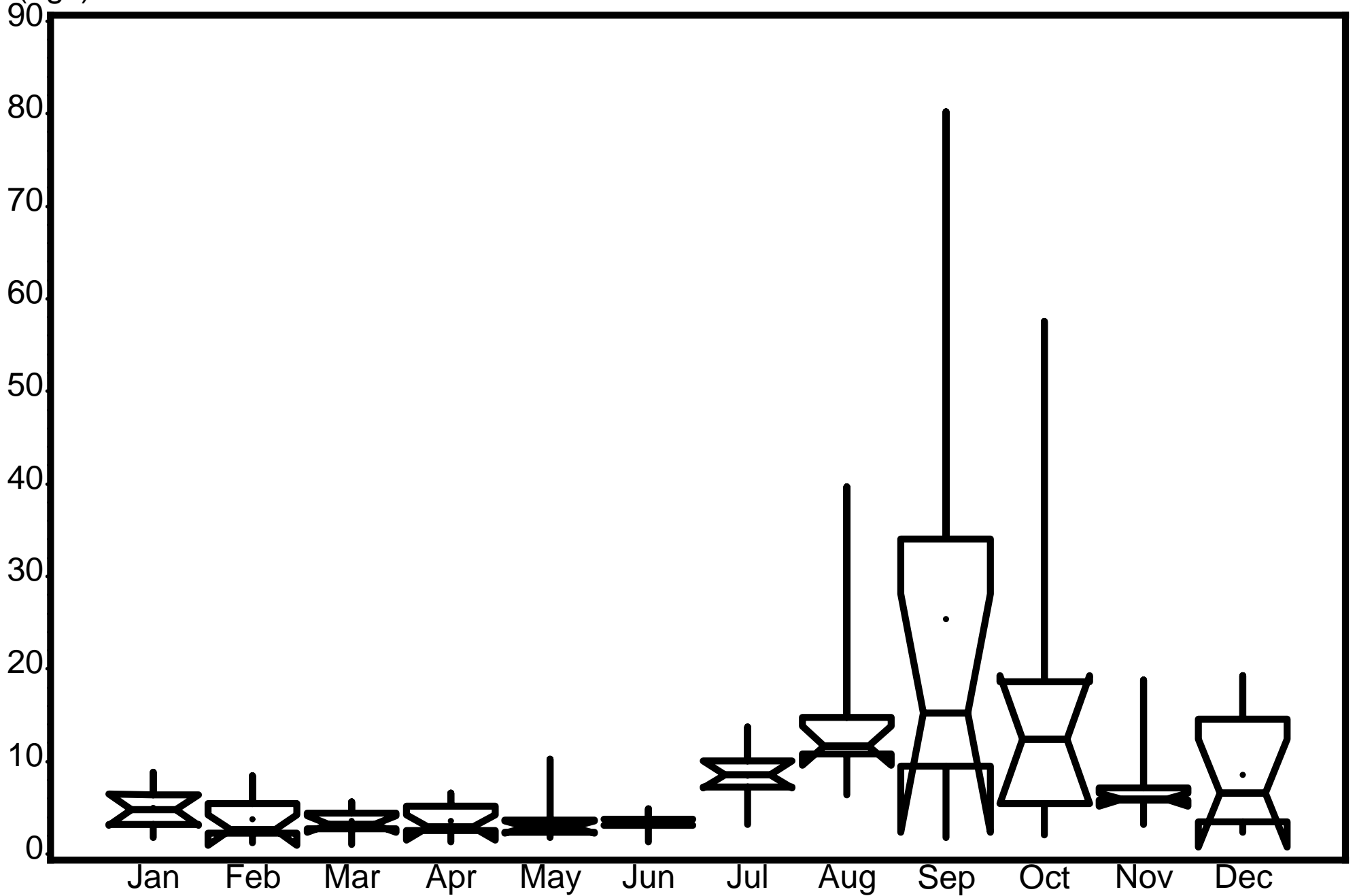


West Wall Trends Appendix - Display 2343

Seasonal Univariate Statistics

for Surface Chlorophyll-a (Corrected) in West Wall

CHLAC_ugl
(ug/l)



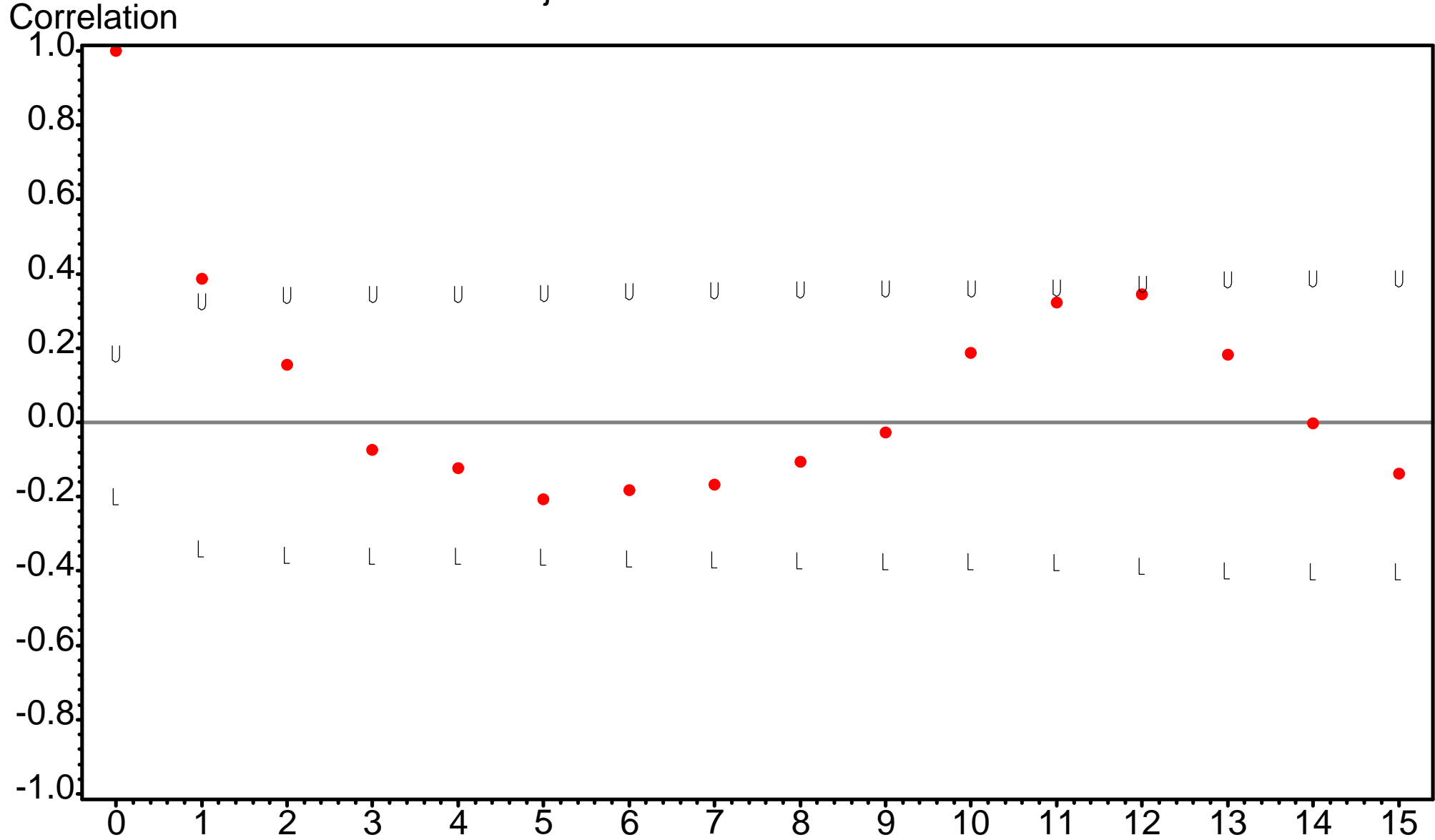
West Wall Trends Appendix - Display 2344
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in West Wall

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.387	0.167	0.333	-0.333
2	0.154	0.175	0.350	-0.350
3	-0.074	0.176	0.352	-0.352
4	-0.123	0.176	0.353	-0.353
5	-0.207	0.177	0.354	-0.354
6	-0.181	0.179	0.359	-0.359
7	-0.167	0.181	0.362	-0.362
8	-0.105	0.182	0.365	-0.365
9	-0.028	0.183	0.366	-0.366
10	0.187	0.183	0.366	-0.366
11	0.323	0.185	0.370	-0.370
12	0.344	0.190	0.380	-0.380
13	0.183	0.196	0.391	-0.391
14	-0.002	0.197	0.394	-0.394
15	-0.137	0.197	0.394	-0.394

West Wall Trends Appendix - Display 2345

Correlogram for Surface Chlorophyll-a (Corrected) in West Wall

Unadjusted for Seasonal Median



Lagged Chlorophyll-a (Corrected)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2346
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in West Wall
Unadjusted for Seasonal Medians

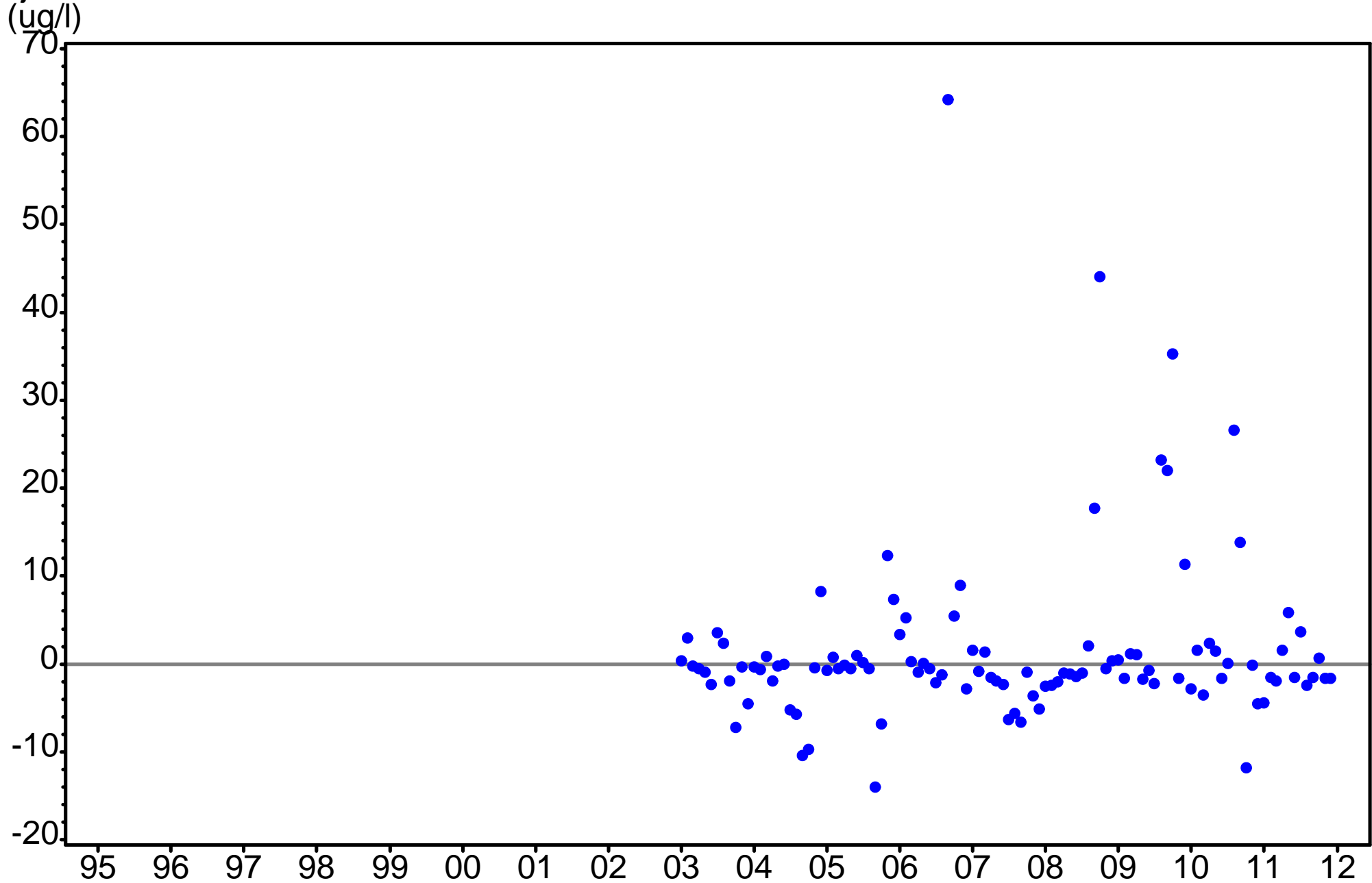
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.108	0.098	0.098	0.212

West Wall Trends Appendix - Display 2347
Seasonal Kendall Tau Trend Test Statistics
for Surface Chlorophyll-a (Corrected) in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.10185	0.19561	0.30829	0.16327

West Wall Trends Appendix - Display 2348

Time Series Plot of Surface Chlorophyll-a (Corrected) Data Adjusted for Season and Detrended
Adjusted West Wall



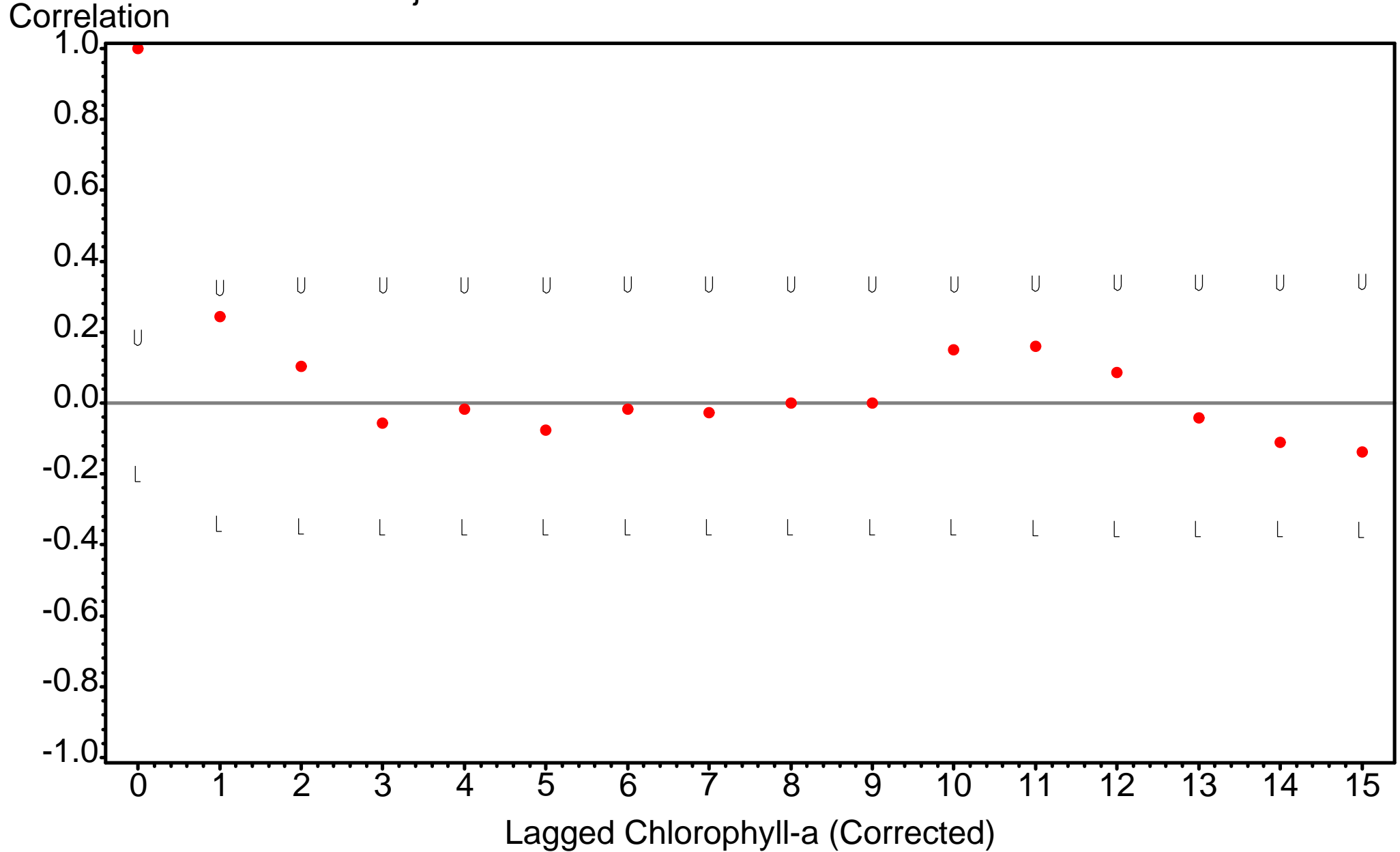
Zero Reference Line Shown

West Wall Trends Appendix - Display 2349
Autocorrelation Statistics for Surface Chlorophyll-a (Corrected) in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Chlorophyll-a (Corrected)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.243	0.167	0.333	-0.333
2	0.104	0.170	0.340	-0.340
3	-0.056	0.170	0.341	-0.341
4	-0.017	0.171	0.341	-0.341
5	-0.077	0.171	0.341	-0.341
6	-0.017	0.171	0.342	-0.342
7	-0.026	0.171	0.342	-0.342
8	-0.001	0.171	0.342	-0.342
9	0.001	0.171	0.342	-0.342
10	0.150	0.171	0.342	-0.342
11	0.159	0.172	0.345	-0.345
12	0.086	0.174	0.347	-0.347
13	-0.041	0.174	0.348	-0.348
14	-0.110	0.174	0.348	-0.348
15	-0.139	0.175	0.350	-0.350

West Wall Trends Appendix - Display 2350

Correlogram for Surface Chlorophyll-a (Corrected) in West Wall Adjusted for Seasonal Median and Detrended

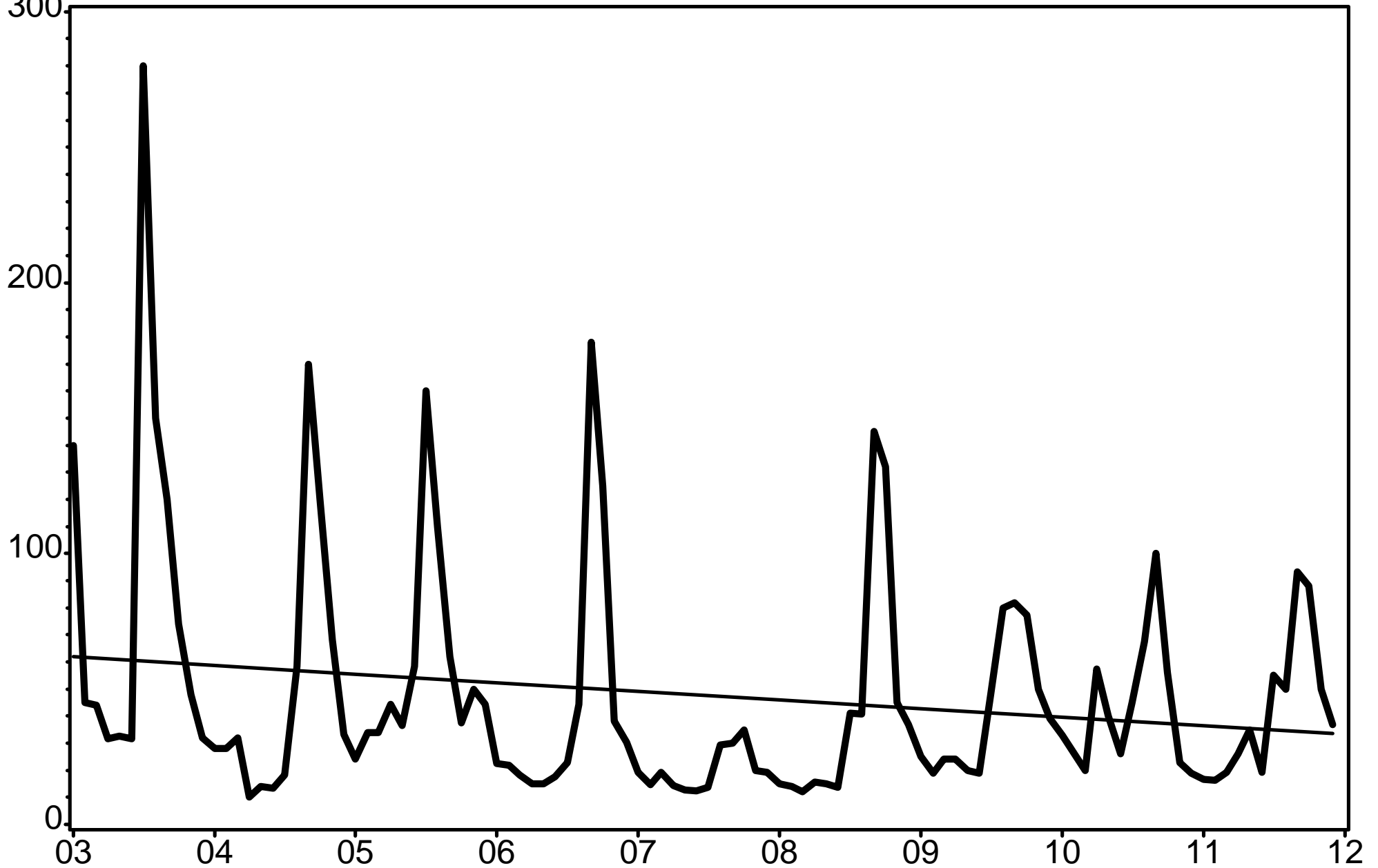


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2351

Monthly Data Time Series
for Surface Color in West Wall
Not Adjusted for Seasonal Medians

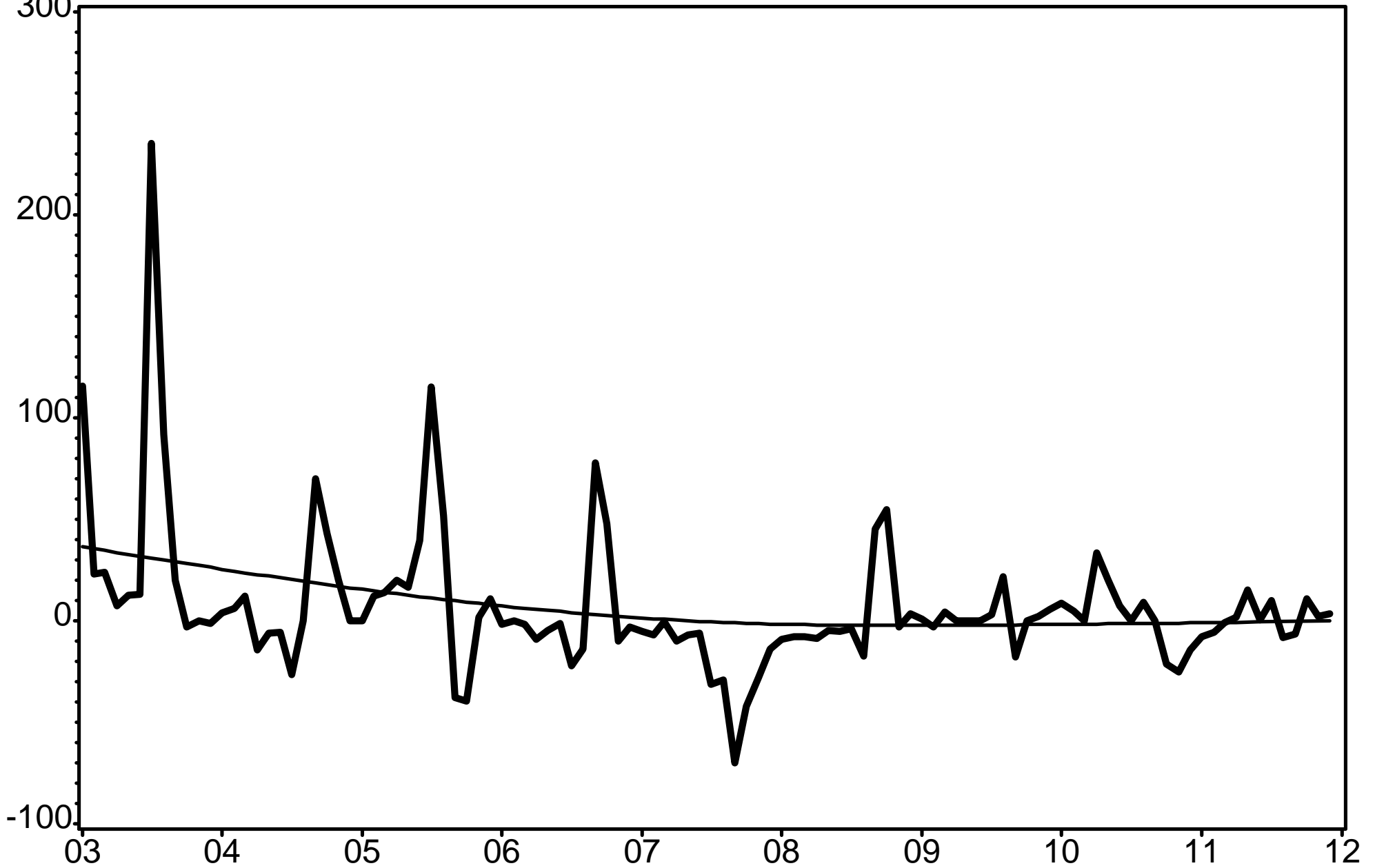
COLOR
(PCU)



West Wall Trends Appendix - Display 2352

Monthly Data Time Series
for Surface Color in West Wall
Adjusted for Seasonal Medians

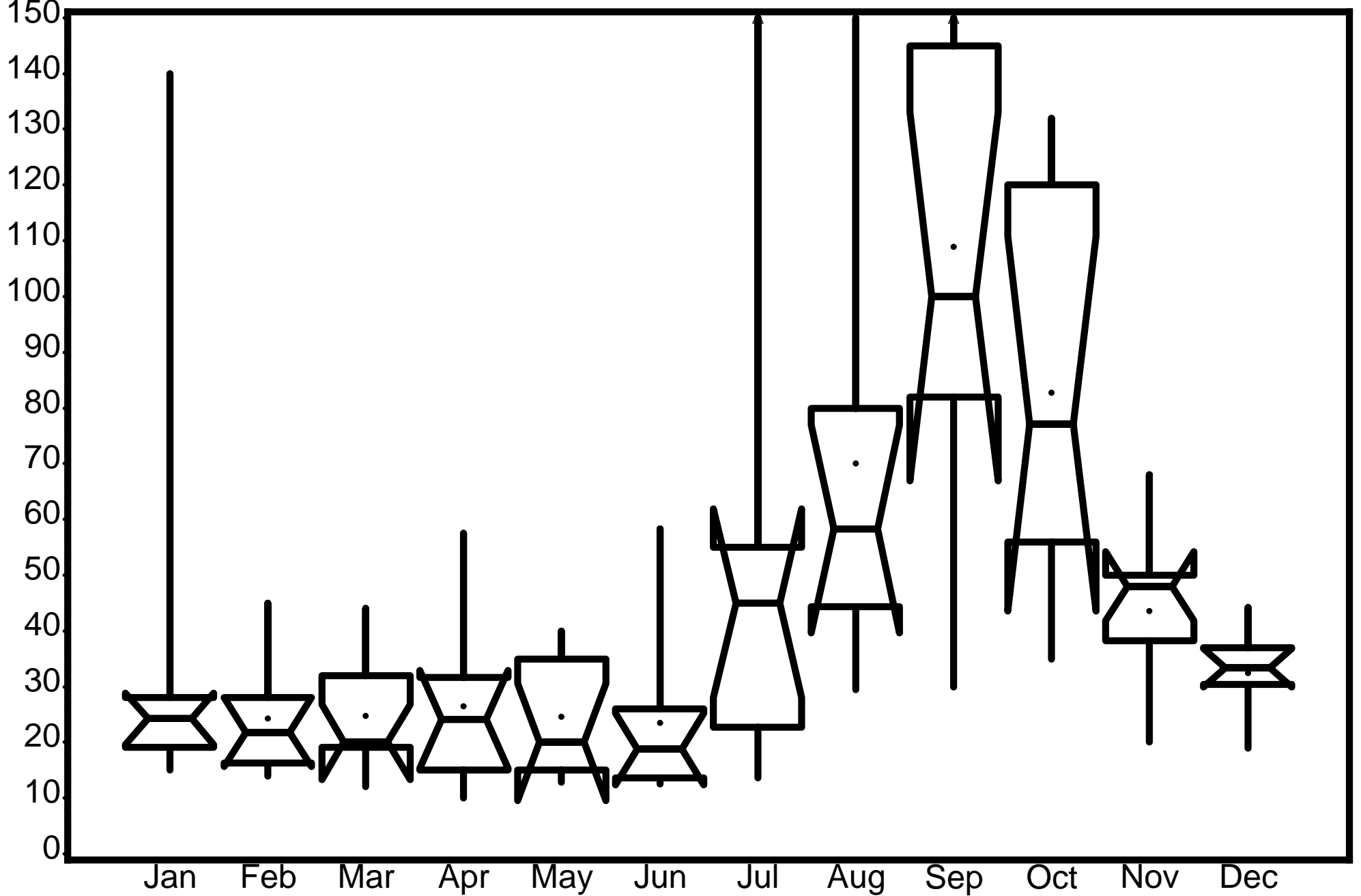
Adjusted
COLOR
(PCU)



West Wall Trends Appendix - Display 2353

Seasonal Univariate Statistics
for Surface Color in West Wall

COLOR
(PCU)

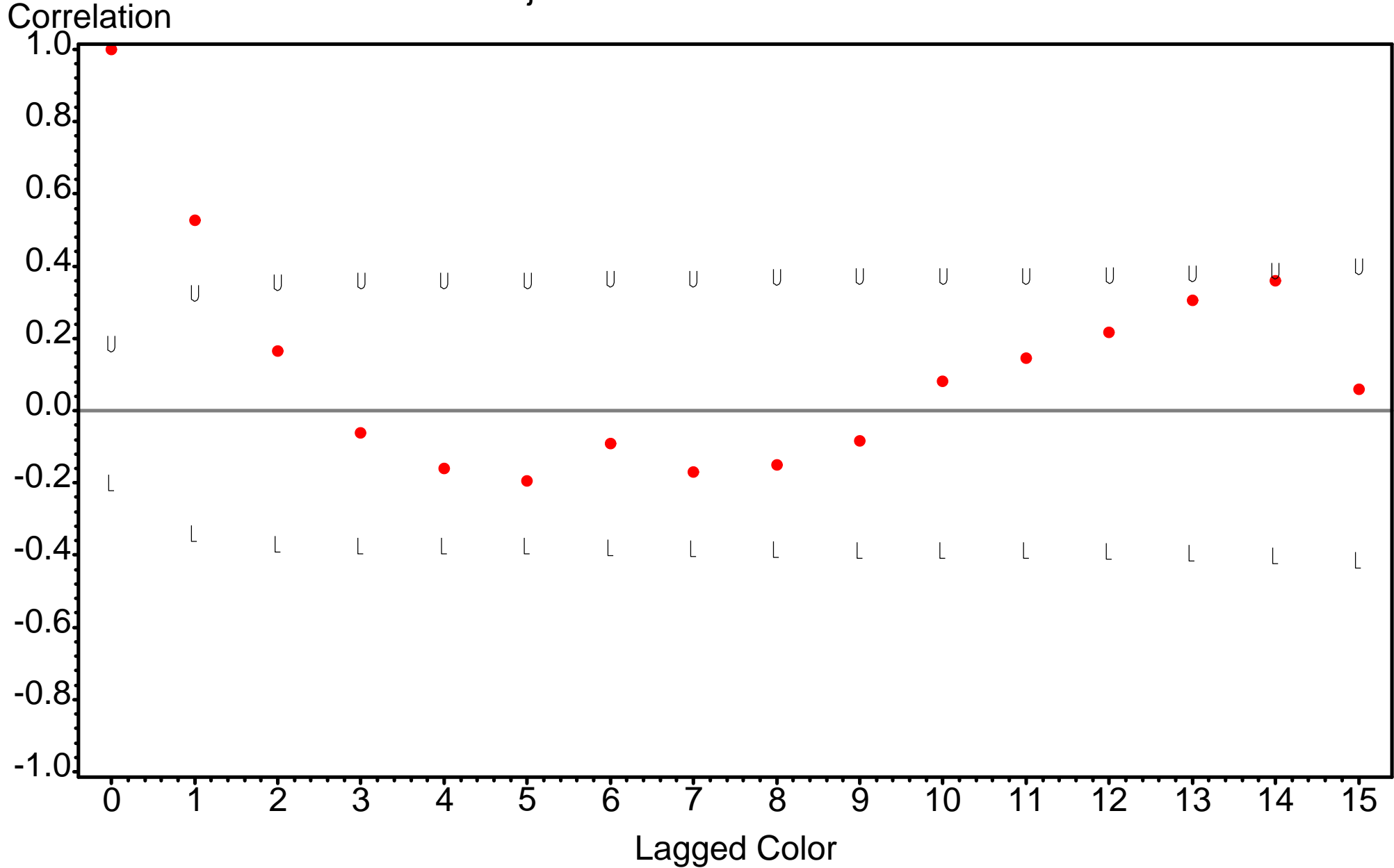


West Wall Trends Appendix - Display 2354
Autocorrelation Statistics for Surface Color in West Wall

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.526	0.167	0.333	-0.333
2	0.164	0.181	0.363	-0.363
3	-0.061	0.183	0.366	-0.366
4	-0.159	0.183	0.366	-0.366
5	-0.195	0.184	0.368	-0.368
6	-0.092	0.186	0.372	-0.372
7	-0.169	0.187	0.373	-0.373
8	-0.149	0.188	0.376	-0.376
9	-0.083	0.189	0.378	-0.378
10	0.081	0.189	0.379	-0.379
11	0.145	0.190	0.379	-0.379
12	0.216	0.191	0.381	-0.381
13	0.306	0.193	0.386	-0.386
14	0.360	0.197	0.395	-0.395
15	0.058	0.203	0.407	-0.407

West Wall Trends Appendix - Display 2355

Correlogram for Surface Color in West Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2356
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.045	0.49	0.49	-0.709

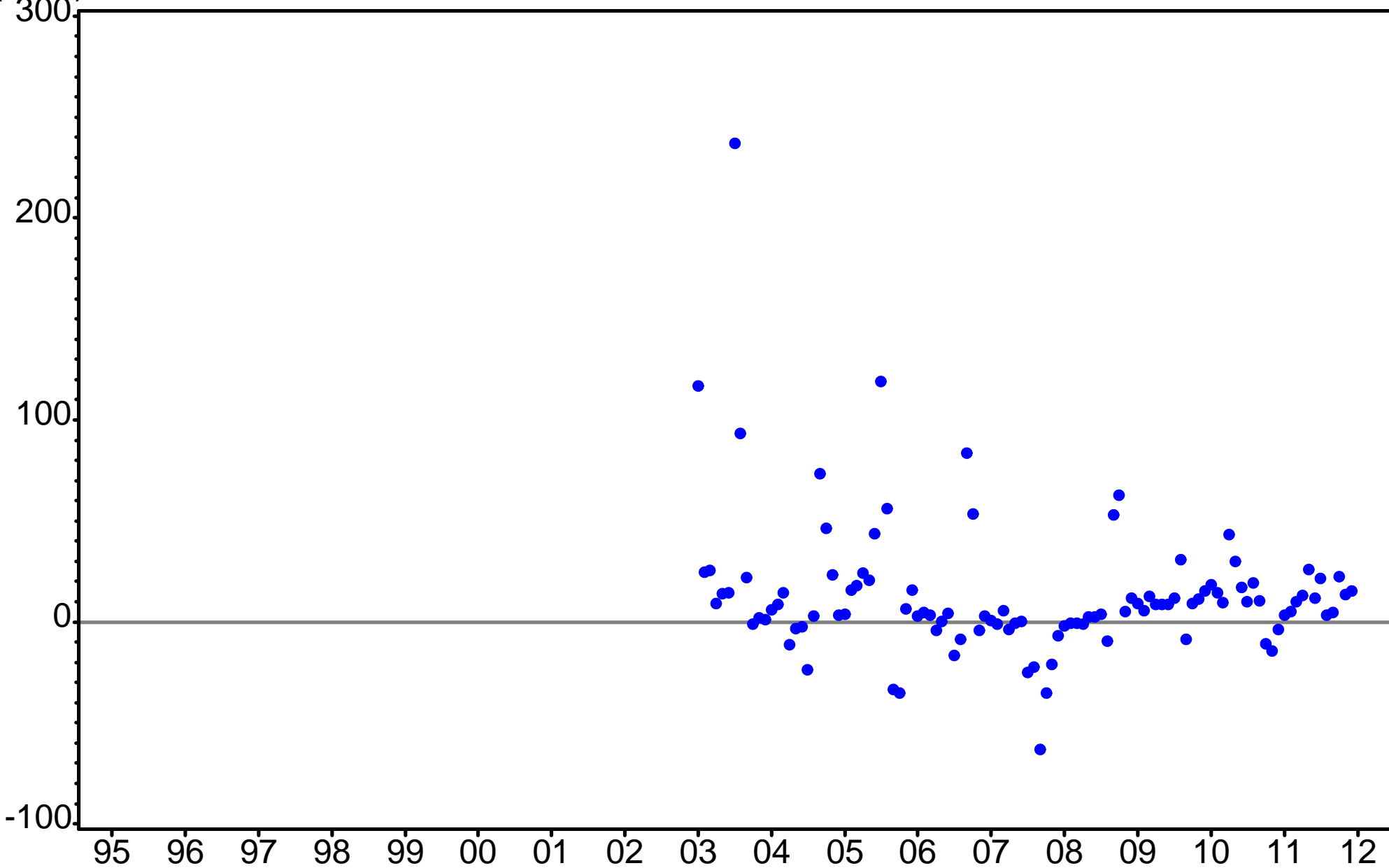
West Wall Trends Appendix - Display 2357
Seasonal Kendall Tau Trend Test Statistics
for Surface Color in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.099537	0.20559	0.53422	-1.19521

West Wall Trends Appendix - Display 2358

Time Series Plot of Surface Color Data Adjusted for Season and Detrended
West Wall

Adjusted
(PCU)
300



Zero Reference Line Shown

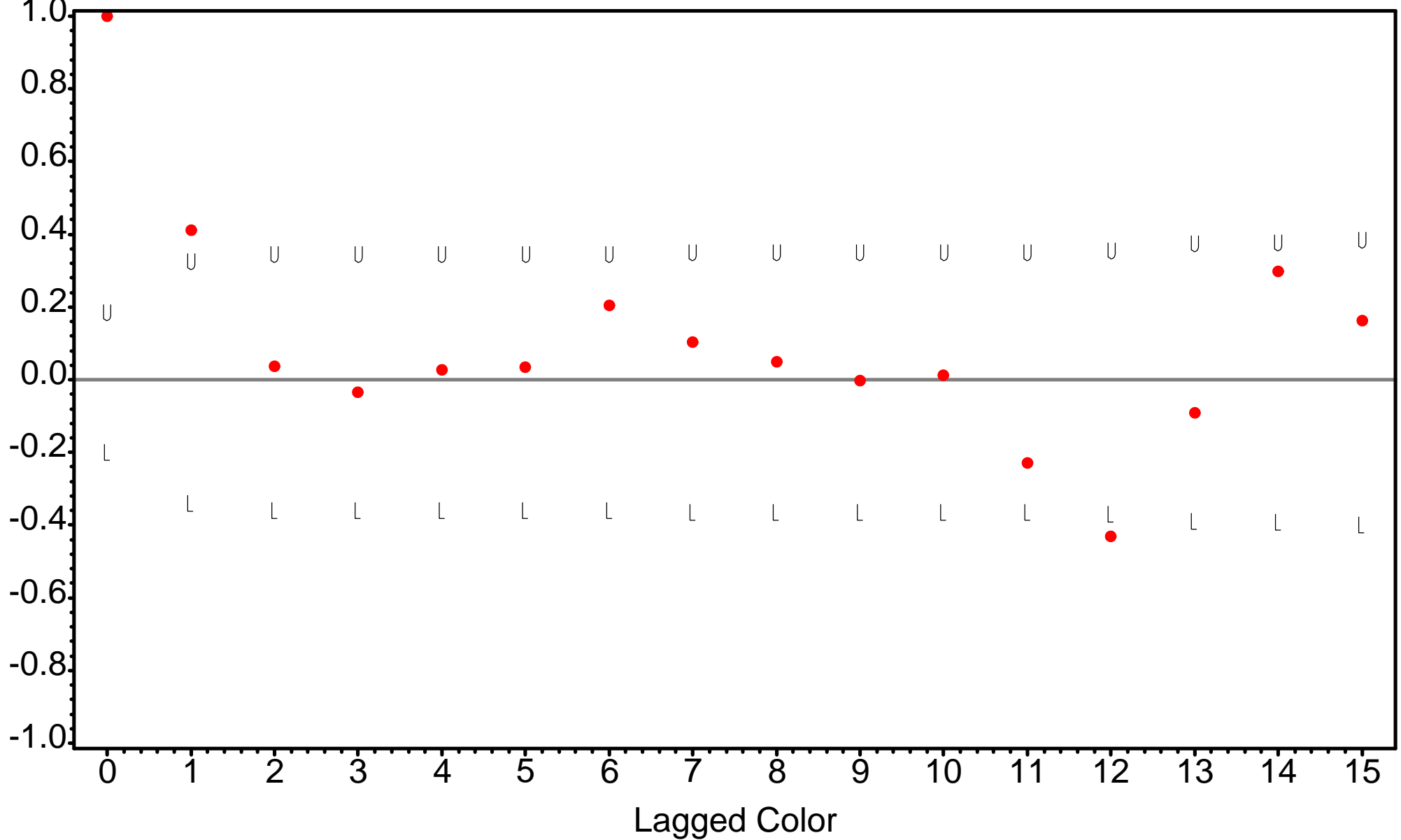
West Wall Trends Appendix - Display 2359
Autocorrelation Statistics for Surface Color in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Color	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.411	0.167	0.333	-0.333
2	0.038	0.176	0.352	-0.352
3	-0.034	0.176	0.352	-0.352
4	0.026	0.176	0.352	-0.352
5	0.035	0.176	0.352	-0.352
6	0.205	0.176	0.352	-0.352
7	0.103	0.178	0.357	-0.357
8	0.050	0.179	0.358	-0.358
9	-0.002	0.179	0.358	-0.358
10	0.013	0.179	0.358	-0.358
11	-0.229	0.179	0.358	-0.358
12	-0.431	0.182	0.363	-0.363
13	-0.091	0.191	0.382	-0.382
14	0.299	0.191	0.383	-0.383
15	0.162	0.196	0.391	-0.391

West Wall Trends Appendix - Display 2360

Correlogram for Surface Color in West Wall
Adjusted for Seasonal Median and Detrended

Correlation



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

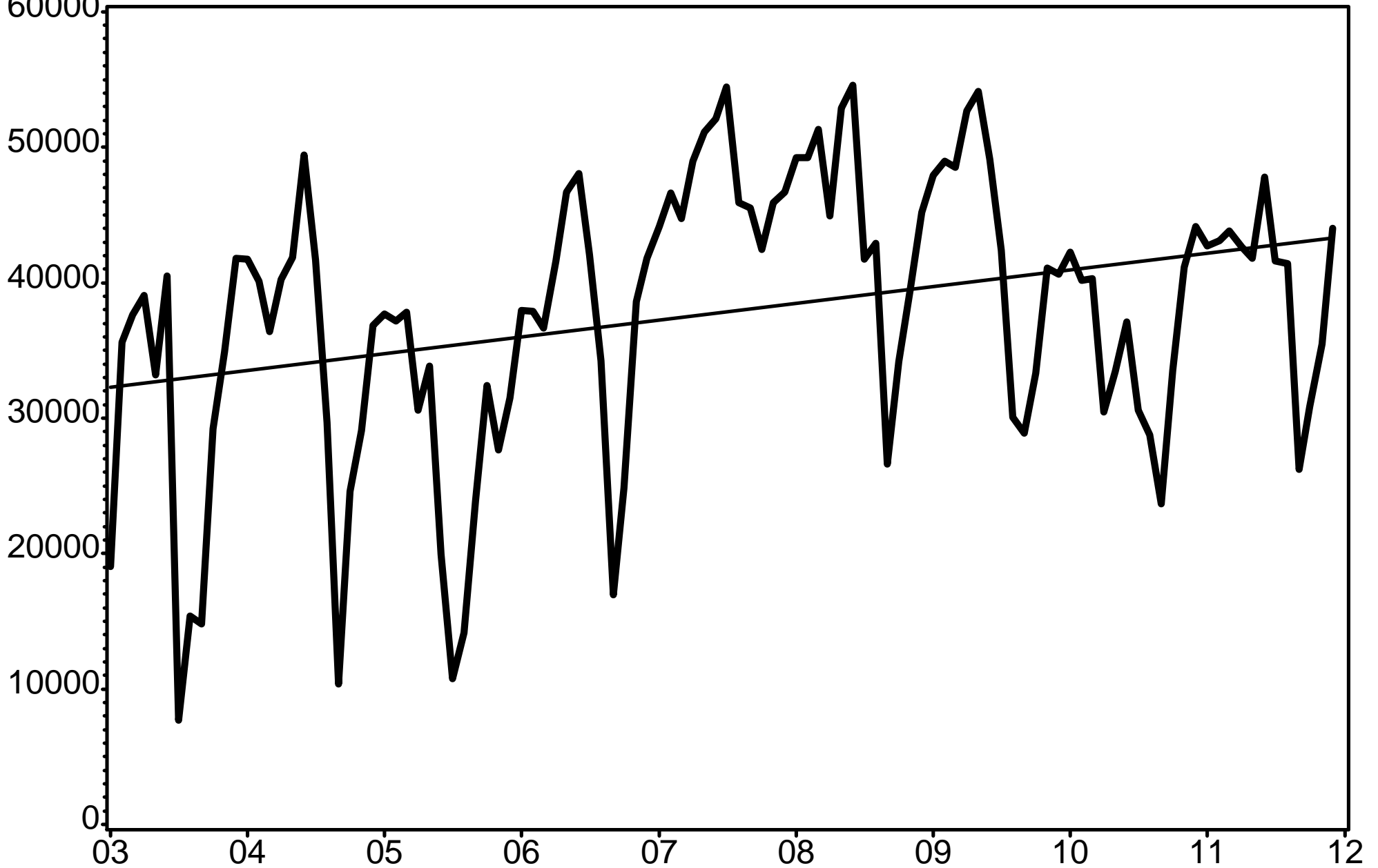
West Wall Trends Appendix - Display 2361

Monthly Data Time Series

for Surface Specific Conductance in West Wall

Not Adjusted for Seasonal Medians

COND
($\mu\text{S}/\text{cm}$)



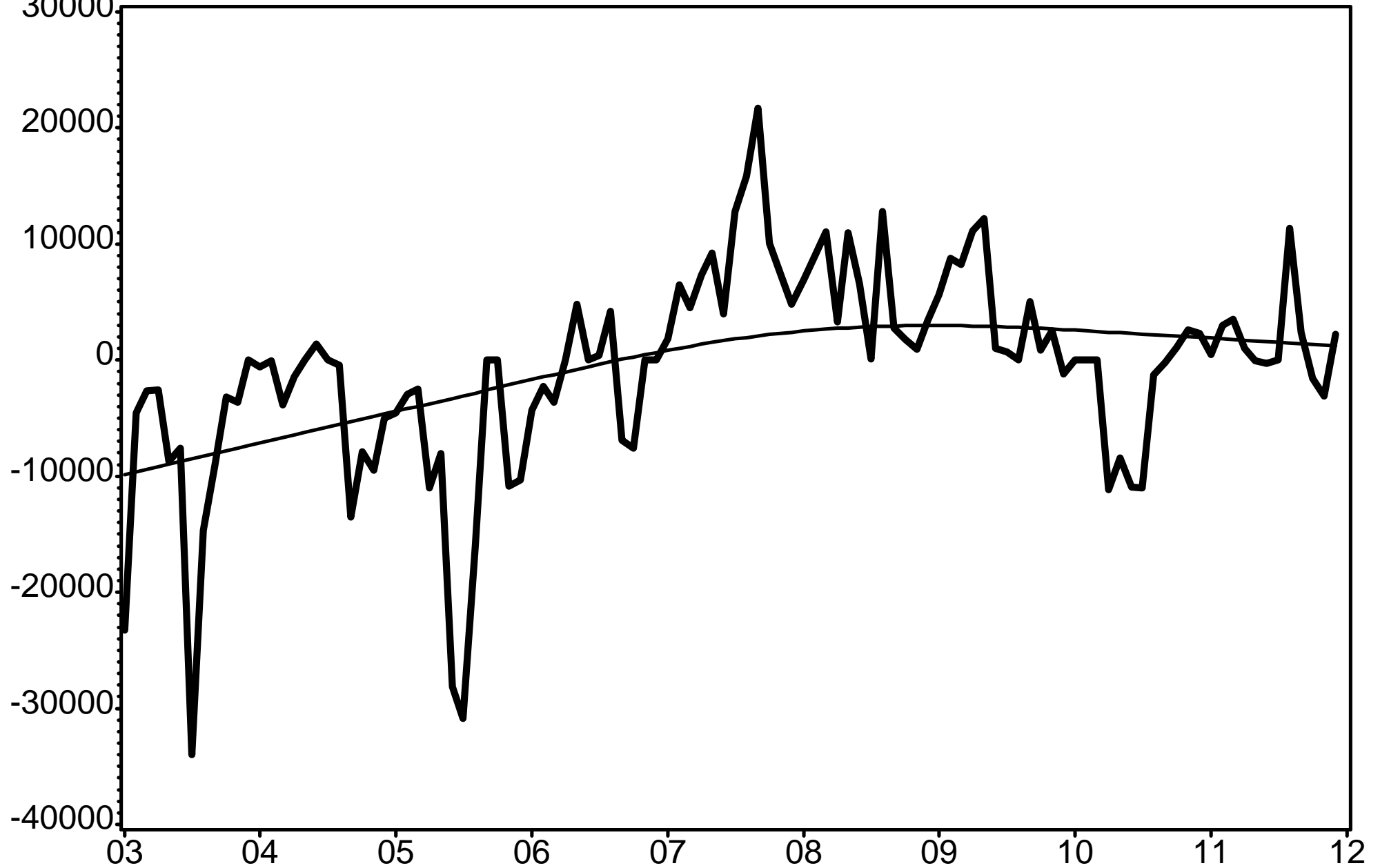
West Wall Trends Appendix - Display 2362

Monthly Data Time Series

for Surface Specific Conductance in West Wall

Adjusted for Seasonal Medians

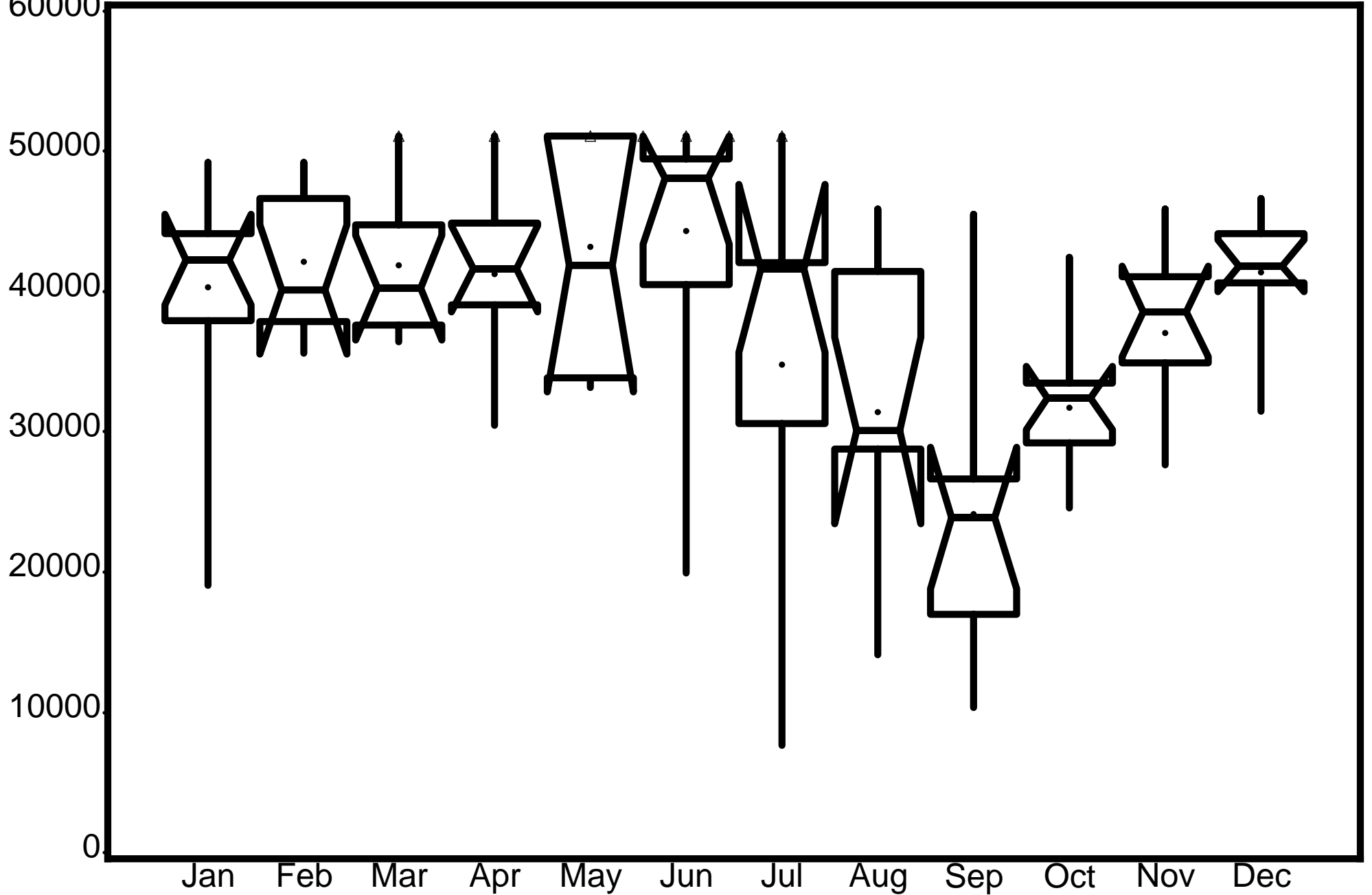
Adjusted
COND
($\mu\text{S}/\text{cm}$)
30000



West Wall Trends Appendix - Display 2363

Seasonal Univariate Statistics
for Surface Specific Conductance in West Wall

COND
(uS/cm)
60000



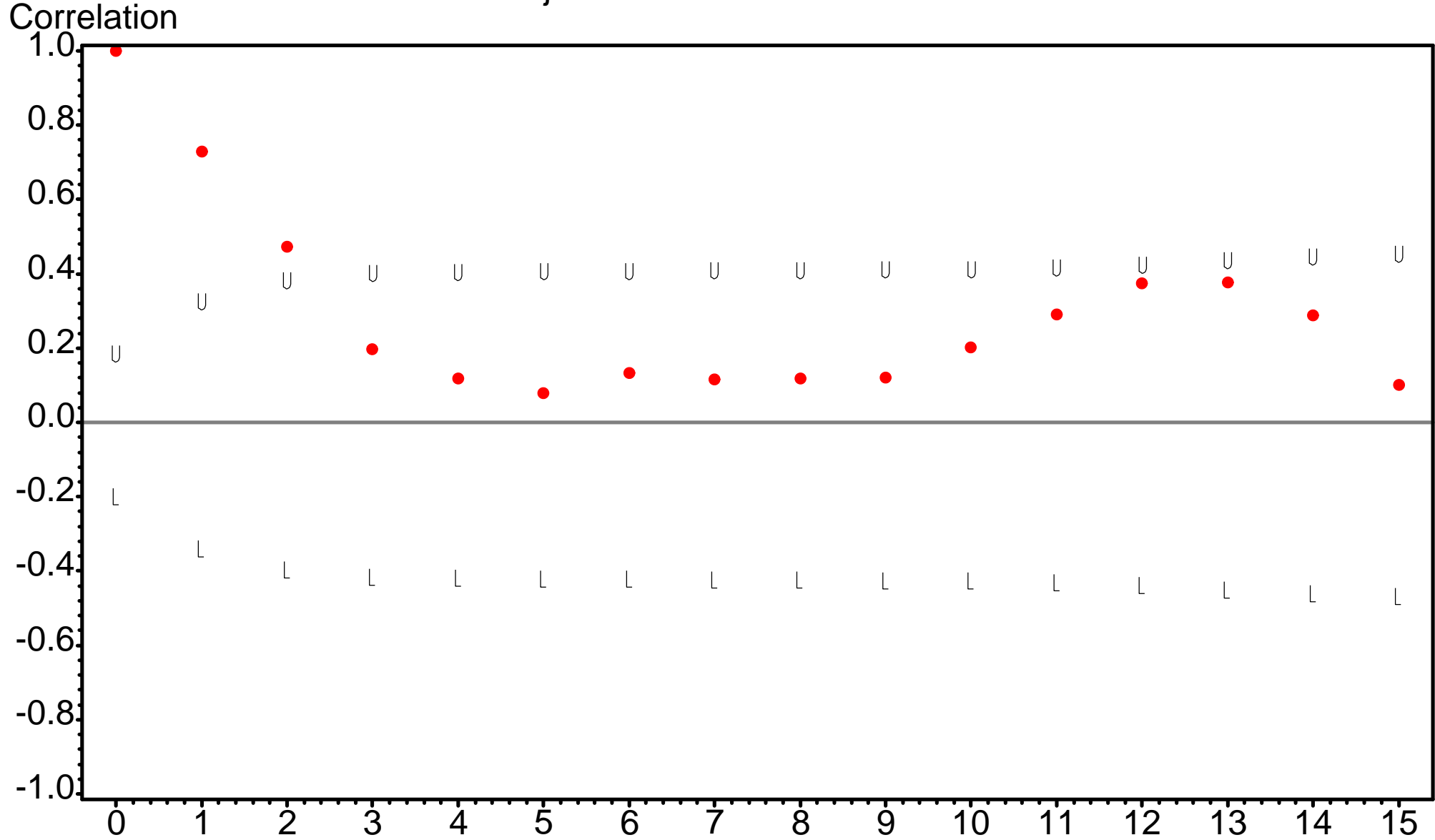
West Wall Trends Appendix - Display 2364
Autocorrelation Statistics for Surface Specific Conductance in West Wall

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.729	0.167	0.333	-0.333
2	0.473	0.194	0.388	-0.388
3	0.196	0.204	0.409	-0.409
4	0.117	0.206	0.412	-0.412
5	0.080	0.207	0.413	-0.413
6	0.133	0.207	0.414	-0.414
7	0.116	0.208	0.416	-0.416
8	0.118	0.208	0.417	-0.417
9	0.120	0.209	0.418	-0.418
10	0.203	0.210	0.419	-0.419
11	0.290	0.211	0.423	-0.423
12	0.374	0.215	0.430	-0.430
13	0.376	0.221	0.442	-0.442
14	0.288	0.227	0.454	-0.454
15	0.100	0.230	0.460	-0.460

West Wall Trends Appendix - Display 2365

Correlogram for Surface Specific Conductance in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2366
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.194	.003	.003	994.63

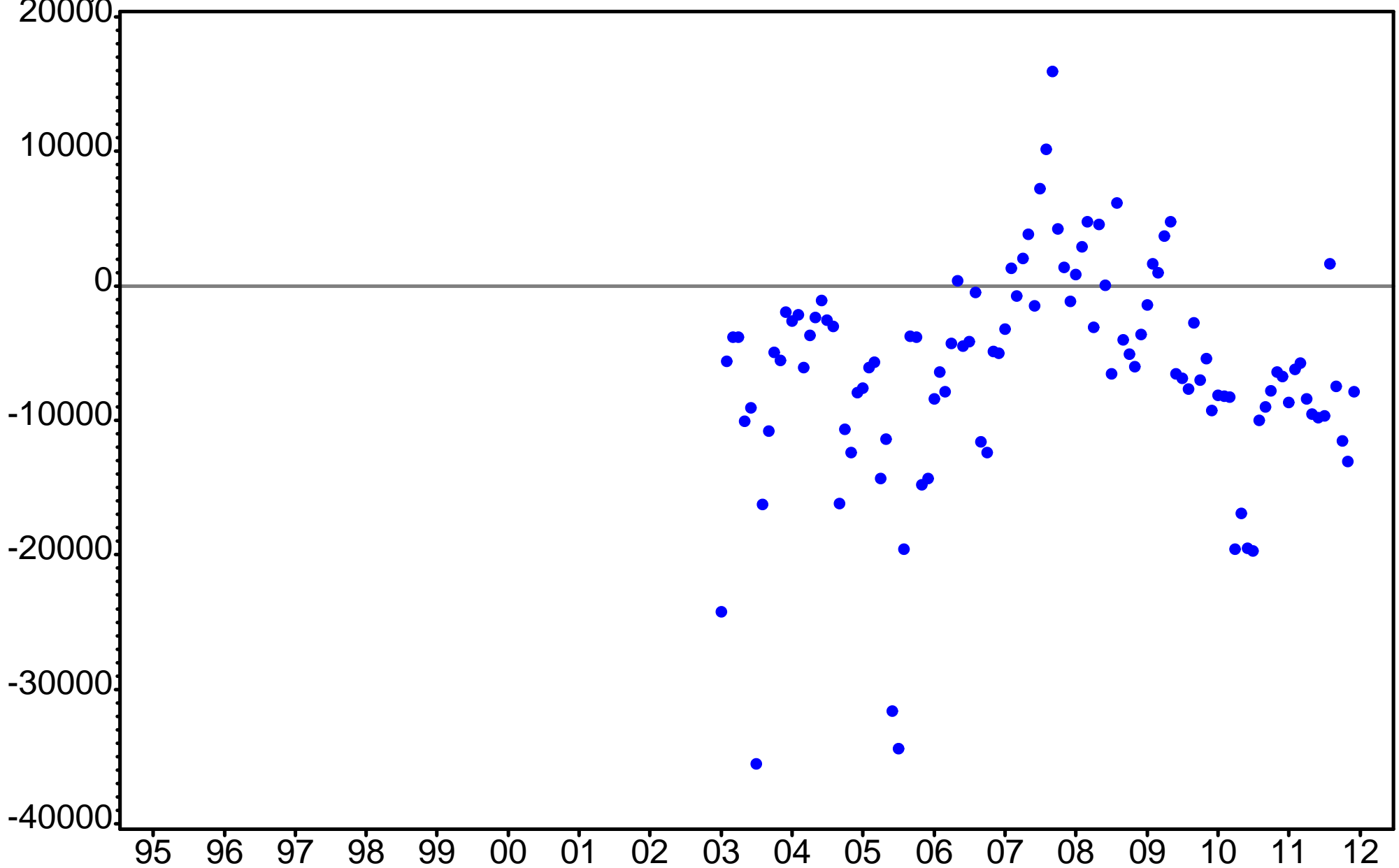
West Wall Trends Appendix - Display 2367
Seasonal Kendall Tau Trend Test Statistics
for Surface Specific Conductance in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.32407	.000028849	0.13397	1015

West Wall Trends Appendix - Display 2368

Time Series Plot of Surface Specific Conductance Data Adjusted for Season and Detrended
West Wall

Adjusted
(uS/cm)



Zero Reference Line Shown

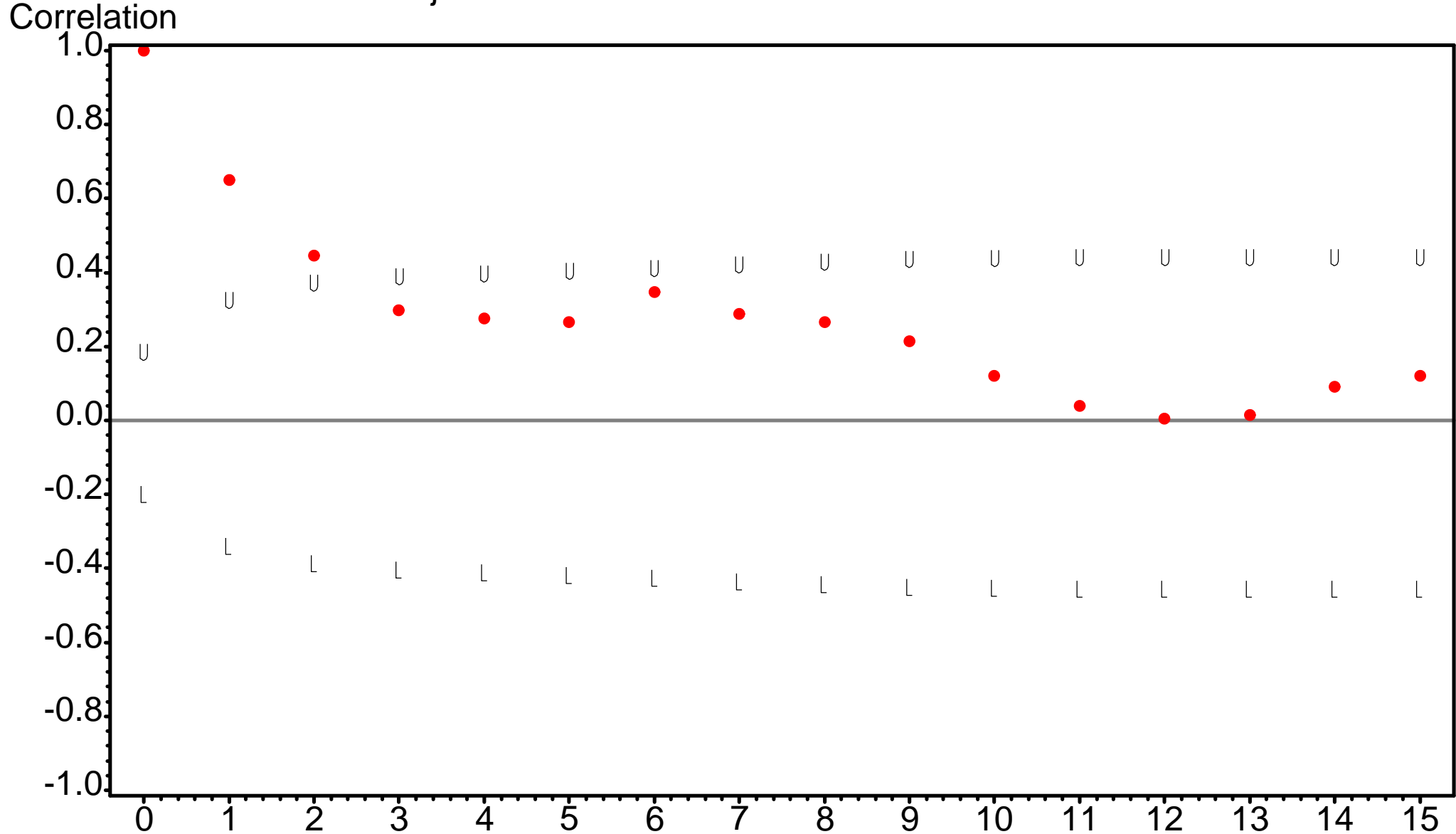
West Wall Trends Appendix - Display 2369
Autocorrelation Statistics for Surface Specific Conductance in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Specific Conductance	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.651	0.167	0.333	-0.333
2	0.446	0.189	0.378	-0.378
3	0.299	0.198	0.397	-0.397
4	0.277	0.202	0.405	-0.405
5	0.267	0.206	0.412	-0.412
6	0.347	0.209	0.418	-0.418
7	0.288	0.214	0.429	-0.429
8	0.266	0.218	0.436	-0.436
9	0.215	0.221	0.442	-0.442
10	0.121	0.223	0.446	-0.446
11	0.040	0.223	0.447	-0.447
12	0.004	0.223	0.447	-0.447
13	0.016	0.223	0.447	-0.447
14	0.092	0.223	0.447	-0.447
15	0.121	0.224	0.448	-0.448

West Wall Trends Appendix - Display 2370

Correlogram for Surface Specific Conductance in West Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

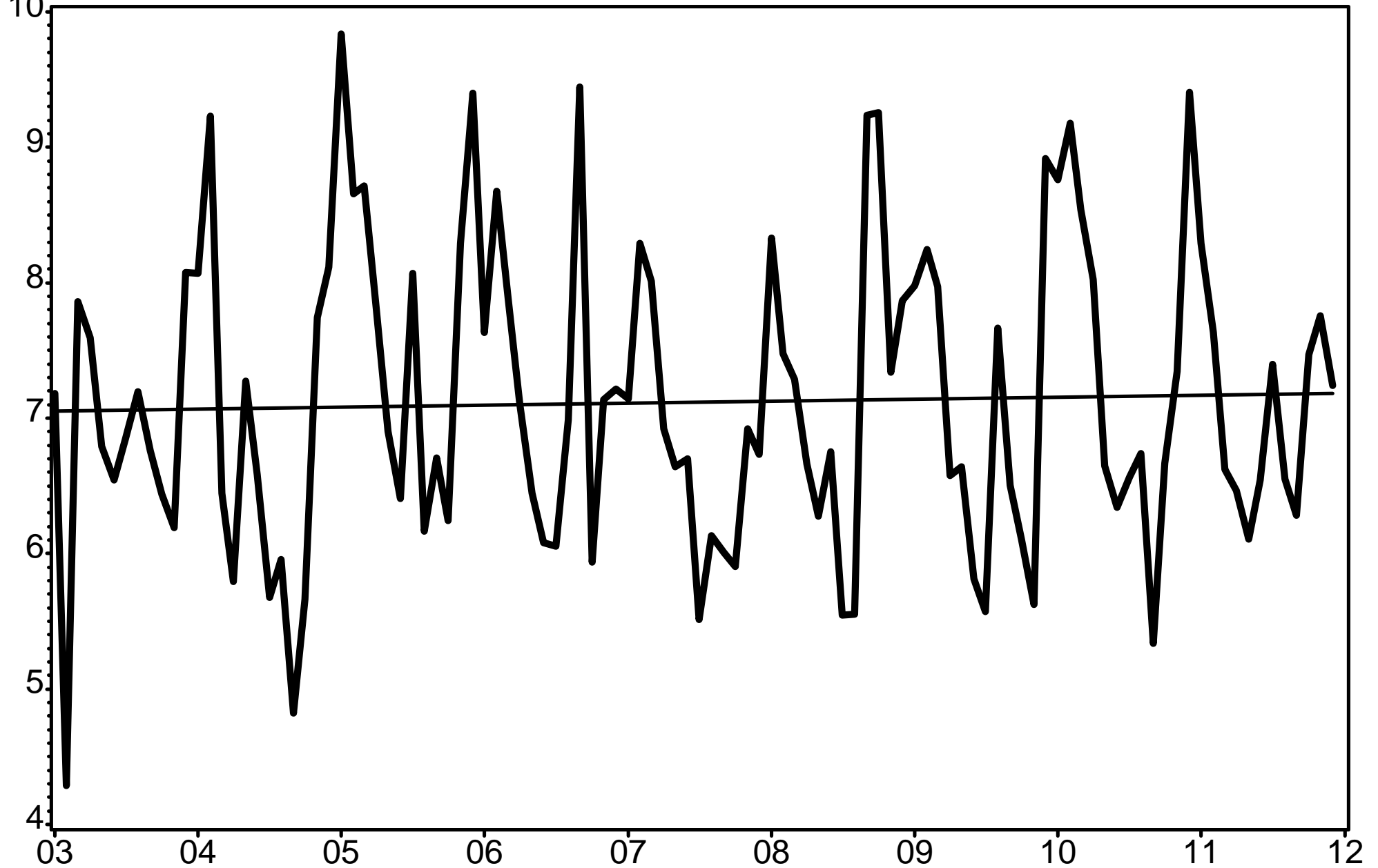
West Wall Trends Appendix - Display 2371

Monthly Data Time Series

for Surface Dissolved Oxygen in West Wall

Not Adjusted for Seasonal Medians

DO_mgl
(mg/l)



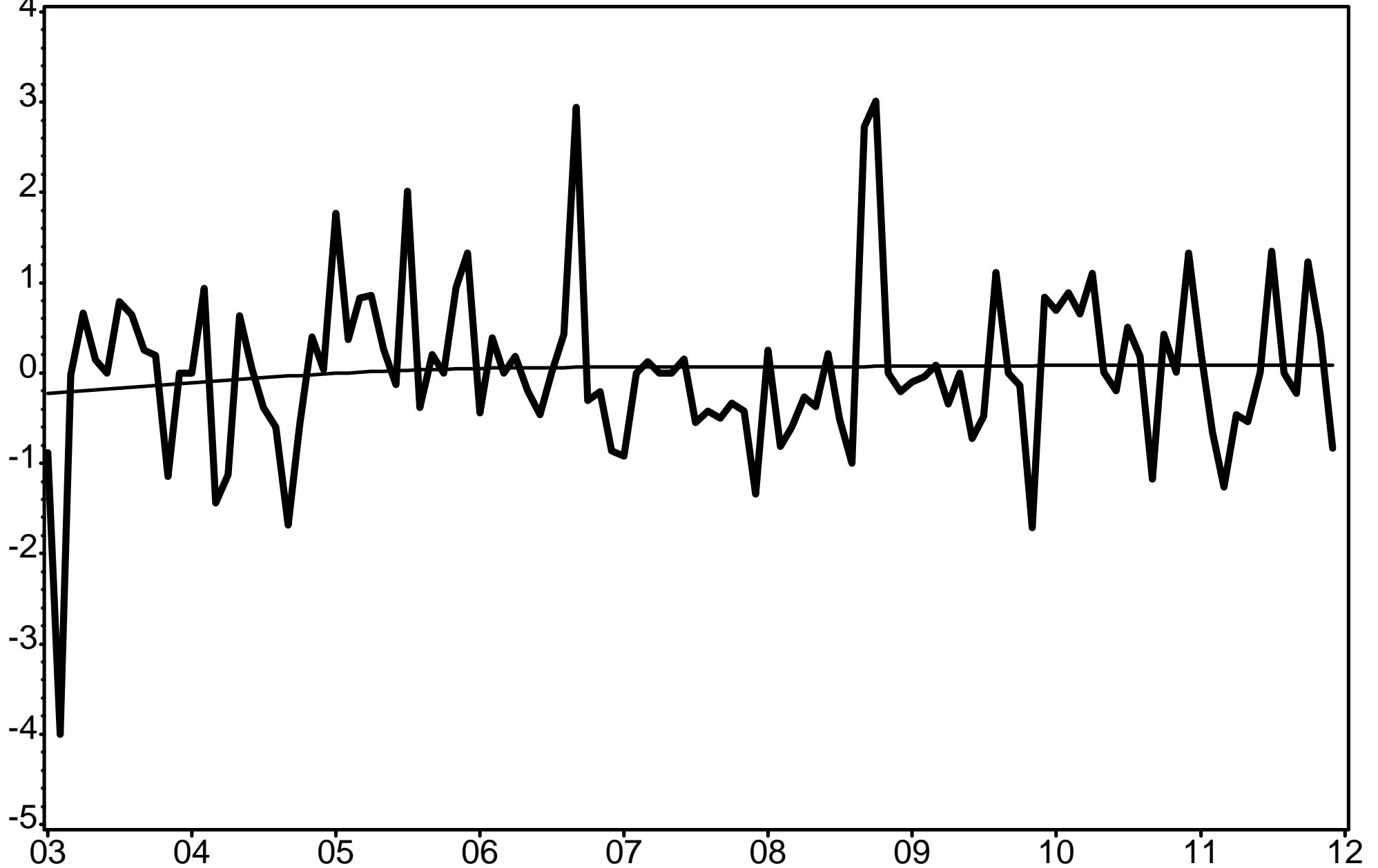
West Wall Trends Appendix - Display 2372

Monthly Data Time Series

for Surface Dissolved Oxygen in West Wall

Adjusted for Seasonal Medians

Adjusted
DO_mgl
(mg/l)

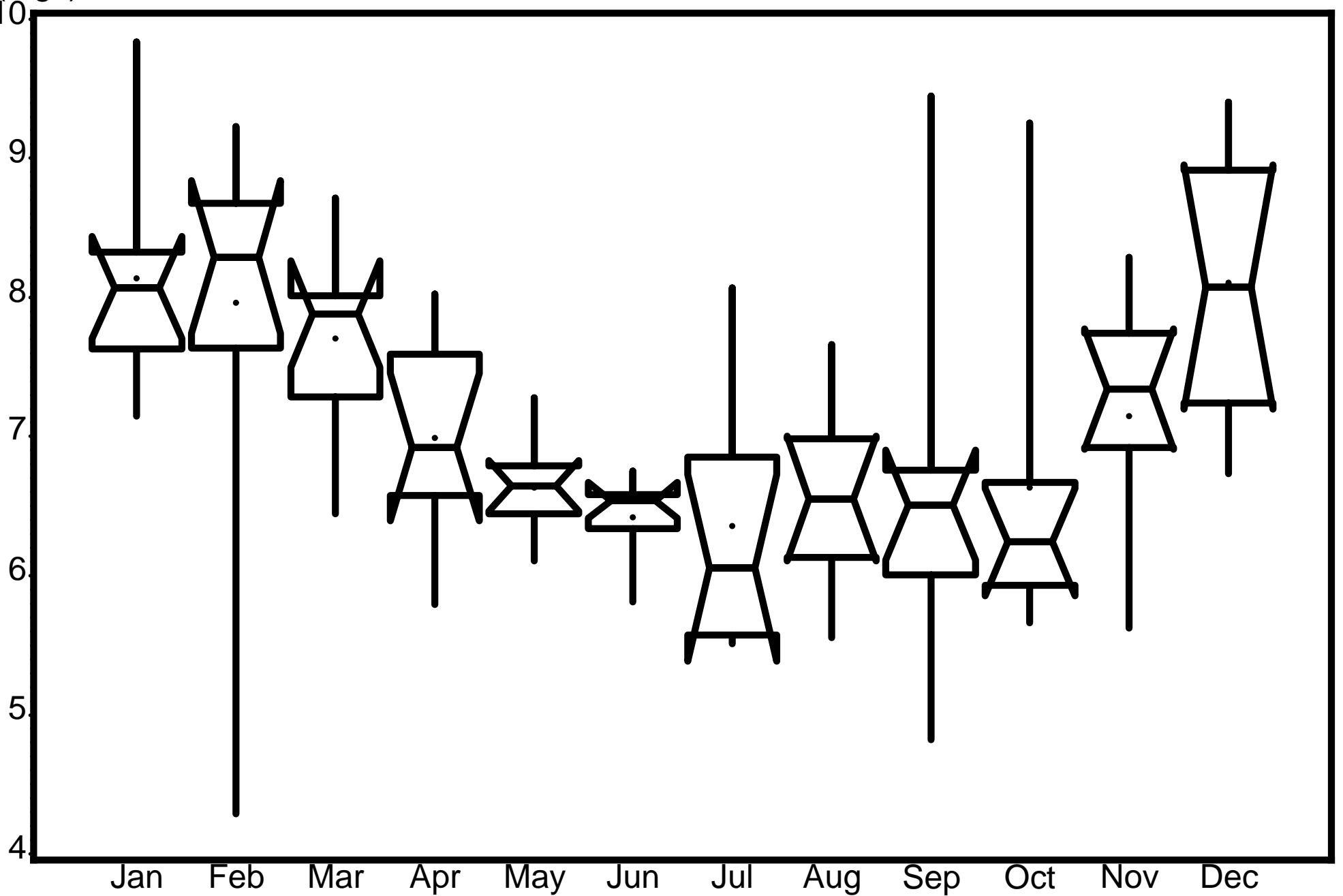


West Wall Trends Appendix - Display 2373

Seasonal Univariate Statistics

for Surface Dissolved Oxygen in West Wall

DO_mgl
(mg/l)



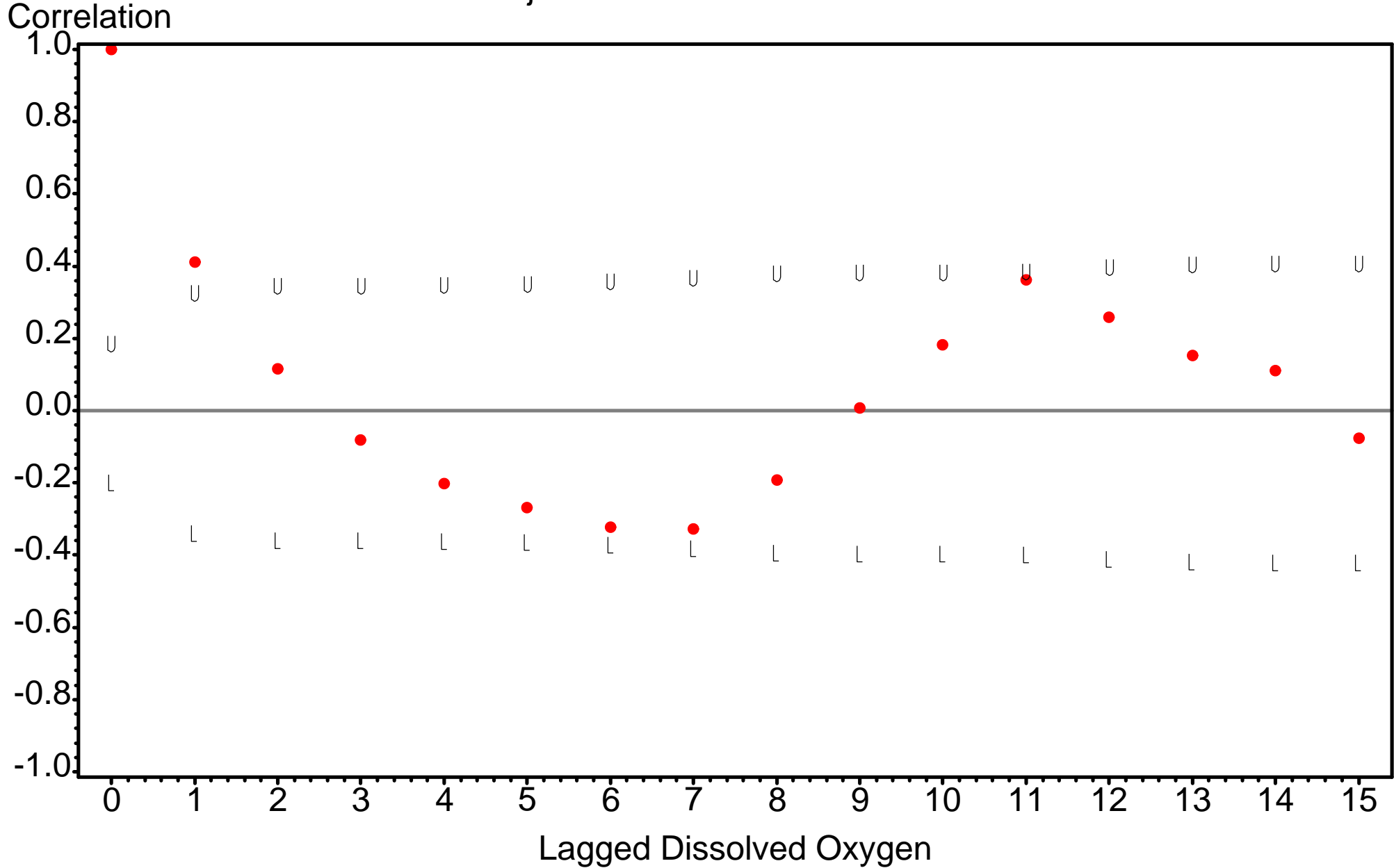
West Wall Trends Appendix - Display 2374
Autocorrelation Statistics for Surface Dissolved Oxygen in West Wall

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.410	0.167	0.333	-0.333
2	0.115	0.176	0.352	-0.352
3	-0.080	0.176	0.353	-0.353
4	-0.201	0.177	0.354	-0.354
5	-0.268	0.179	0.358	-0.358
6	-0.322	0.183	0.365	-0.365
7	-0.327	0.188	0.375	-0.375
8	-0.192	0.193	0.386	-0.386
9	0.007	0.195	0.389	-0.389
10	0.181	0.195	0.389	-0.389
11	0.362	0.196	0.392	-0.392
12	0.258	0.202	0.405	-0.405
13	0.153	0.205	0.411	-0.411
14	0.112	0.206	0.413	-0.413
15	-0.077	0.207	0.414	-0.414

West Wall Trends Appendix - Display 2375

Correlogram for Surface Dissolved Oxygen in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2376
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
.001	0.987	0.987	.001

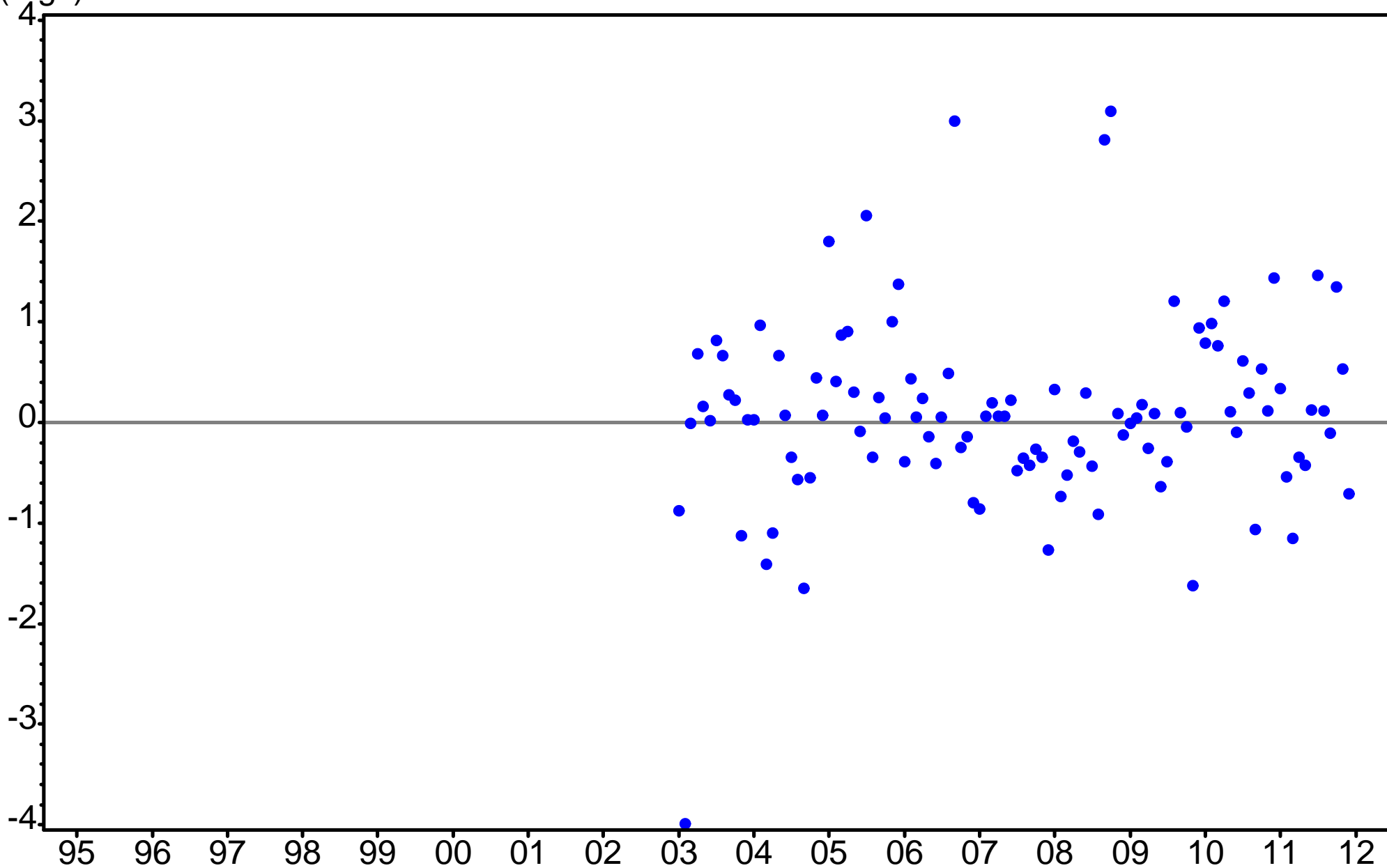
West Wall Trends Appendix - Display 2377
Seasonal Kendall Tau Trend Test Statistics
for Surface Dissolved Oxygen in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.023148	0.78649	0.84381	-0.012367

West Wall Trends Appendix - Display 2378

Time Series Plot of Surface Dissolved Oxygen Data Adjusted for Season and Detrended
West Wall

Adjusted
(mg/l)



Zero Reference Line Shown

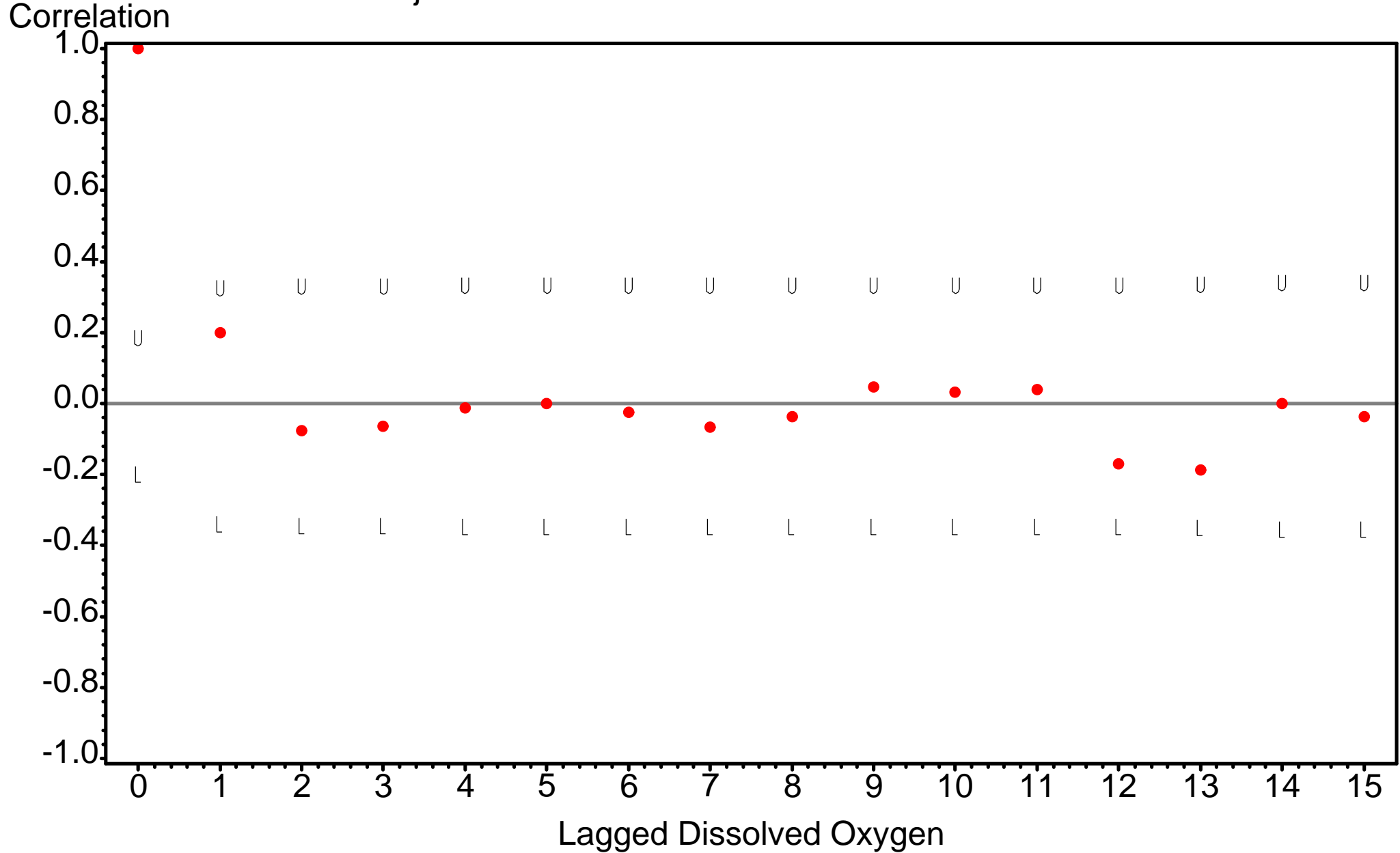
West Wall Trends Appendix - Display 2379
Autocorrelation Statistics for Surface Dissolved Oxygen in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Dissolved Oxygen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.199	0.167	0.333	-0.333
2	-0.076	0.169	0.338	-0.338
3	-0.063	0.169	0.338	-0.338
4	-0.013	0.169	0.339	-0.339
5	0.000	0.169	0.339	-0.339
6	-0.025	0.169	0.339	-0.339
7	-0.066	0.169	0.339	-0.339
8	-0.037	0.170	0.339	-0.339
9	0.047	0.170	0.339	-0.339
10	0.032	0.170	0.340	-0.340
11	0.040	0.170	0.340	-0.340
12	-0.169	0.170	0.340	-0.340
13	-0.187	0.172	0.343	-0.343
14	-0.001	0.173	0.347	-0.347
15	-0.036	0.173	0.347	-0.347

West Wall Trends Appendix - Display 2380

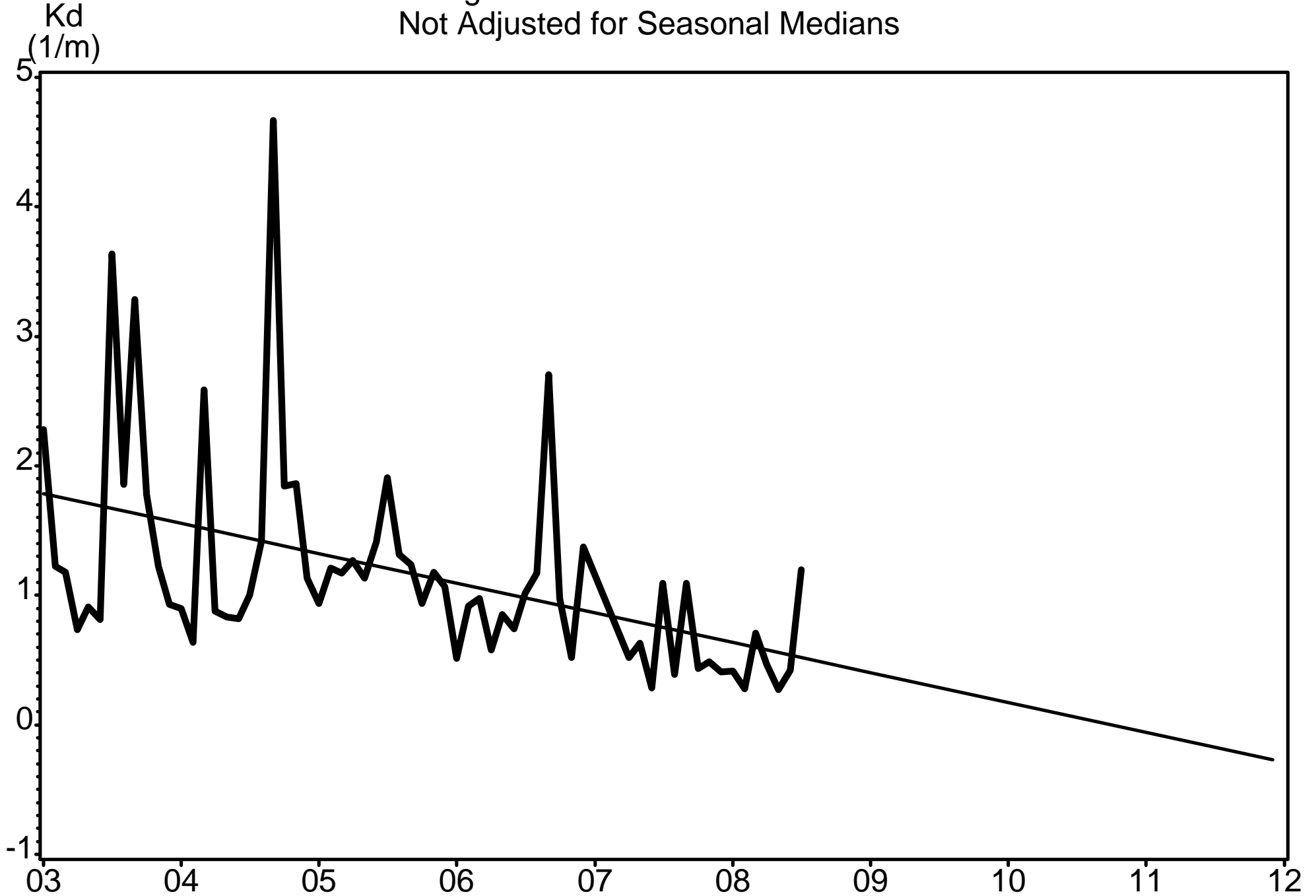
Correlogram for Surface Dissolved Oxygen in West Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2381
Monthly Data Time Series
for Surface Light Attenuation Coefficient in West Wall
Not Adjusted for Seasonal Medians



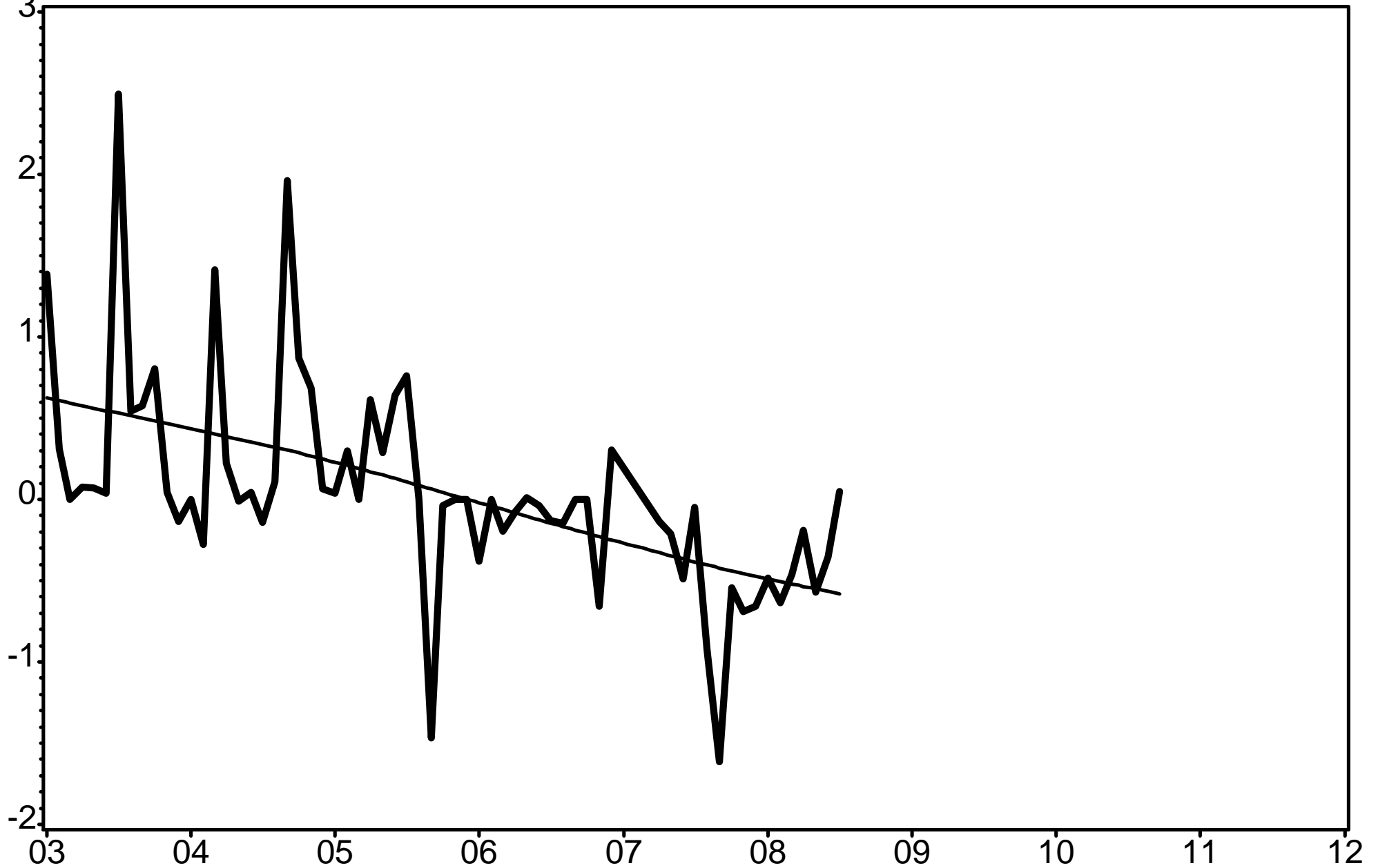
West Wall Trends Appendix - Display 2382

Monthly Data Time Series

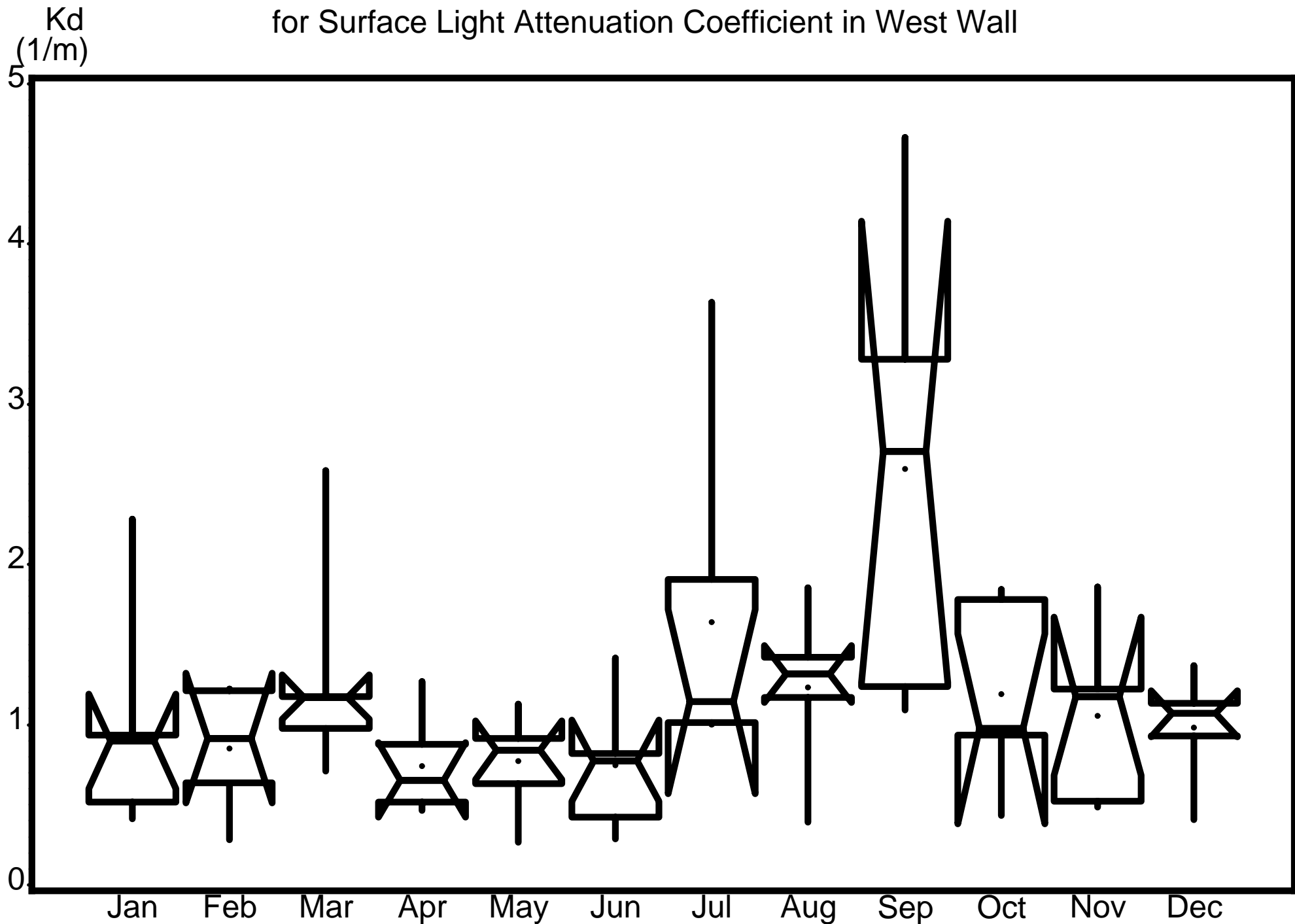
for Surface Light Attenuation Coefficient in West Wall

Adjusted for Seasonal Medians

Adjusted
Kd
(1/m)



West Wall Trends Appendix - Display 2383
Seasonal Univariate Statistics
for Surface Light Attenuation Coefficient in West Wall



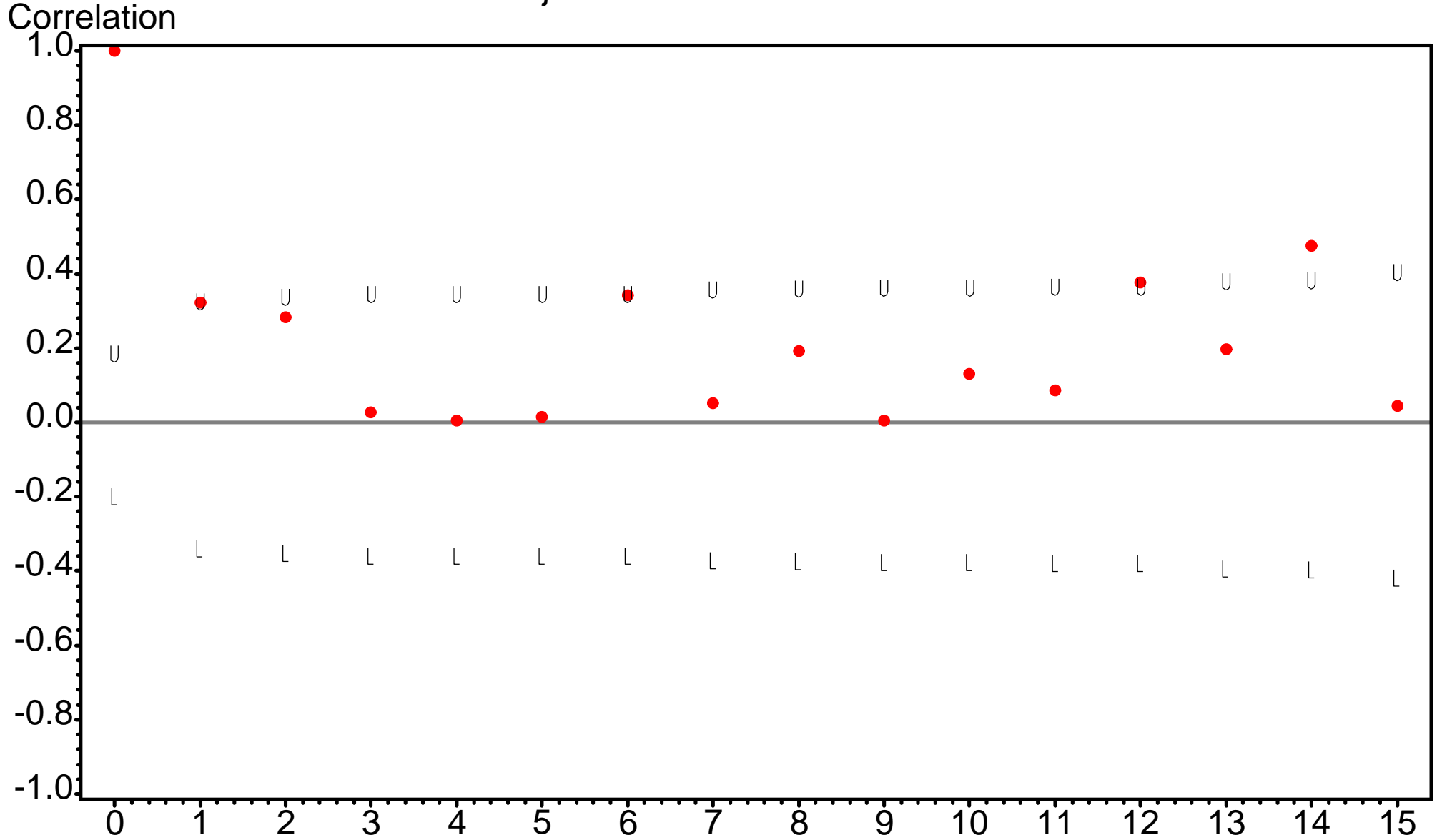
West Wall Trends Appendix - Display 2384

Autocorrelation Statistics for Surface Light Attenuation Coefficient in West Wall

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.322	0.167	0.333	-0.333
2	0.283	0.172	0.345	-0.345
3	0.026	0.177	0.353	-0.353
4	0.004	0.177	0.353	-0.353
5	0.016	0.177	0.353	-0.353
6	0.342	0.177	0.353	-0.353
7	0.052	0.183	0.365	-0.365
8	0.193	0.183	0.366	-0.366
9	0.005	0.185	0.369	-0.369
10	0.131	0.185	0.369	-0.369
11	0.085	0.186	0.371	-0.371
12	0.376	0.186	0.372	-0.372
13	0.198	0.193	0.386	-0.386
14	0.476	0.195	0.389	-0.389
15	0.044	0.205	0.410	-0.410

West Wall Trends Appendix - Display 2385

Correlogram for Surface Light Attenuation Coefficient in West Wall Unadjusted for Seasonal Median



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2386
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in West Wall
Unadjusted for Seasonal Medians

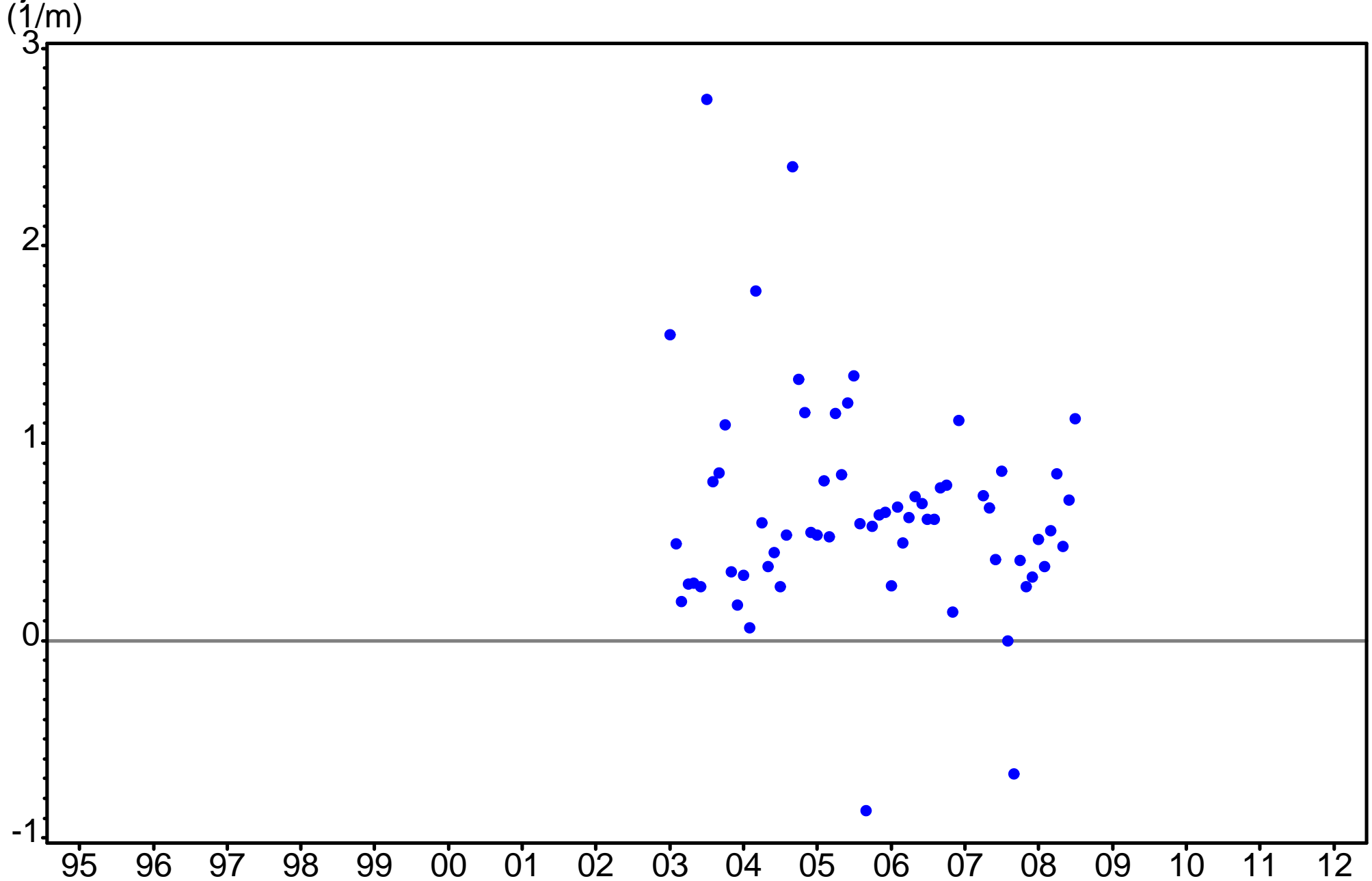
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.384	0	0	-0.178

West Wall Trends Appendix - Display 2387
Seasonal Kendall Tau Trend Test Statistics
for Surface Light Attenuation Coefficient in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.55714	.000000982	0.027828	-0.1655

West Wall Trends Appendix - Display 2388

Time Series Plot of Surface Light Attenuation Coefficient Data Adjusted for Season and Detrended
Adjusted West Wall



Zero Reference Line Shown

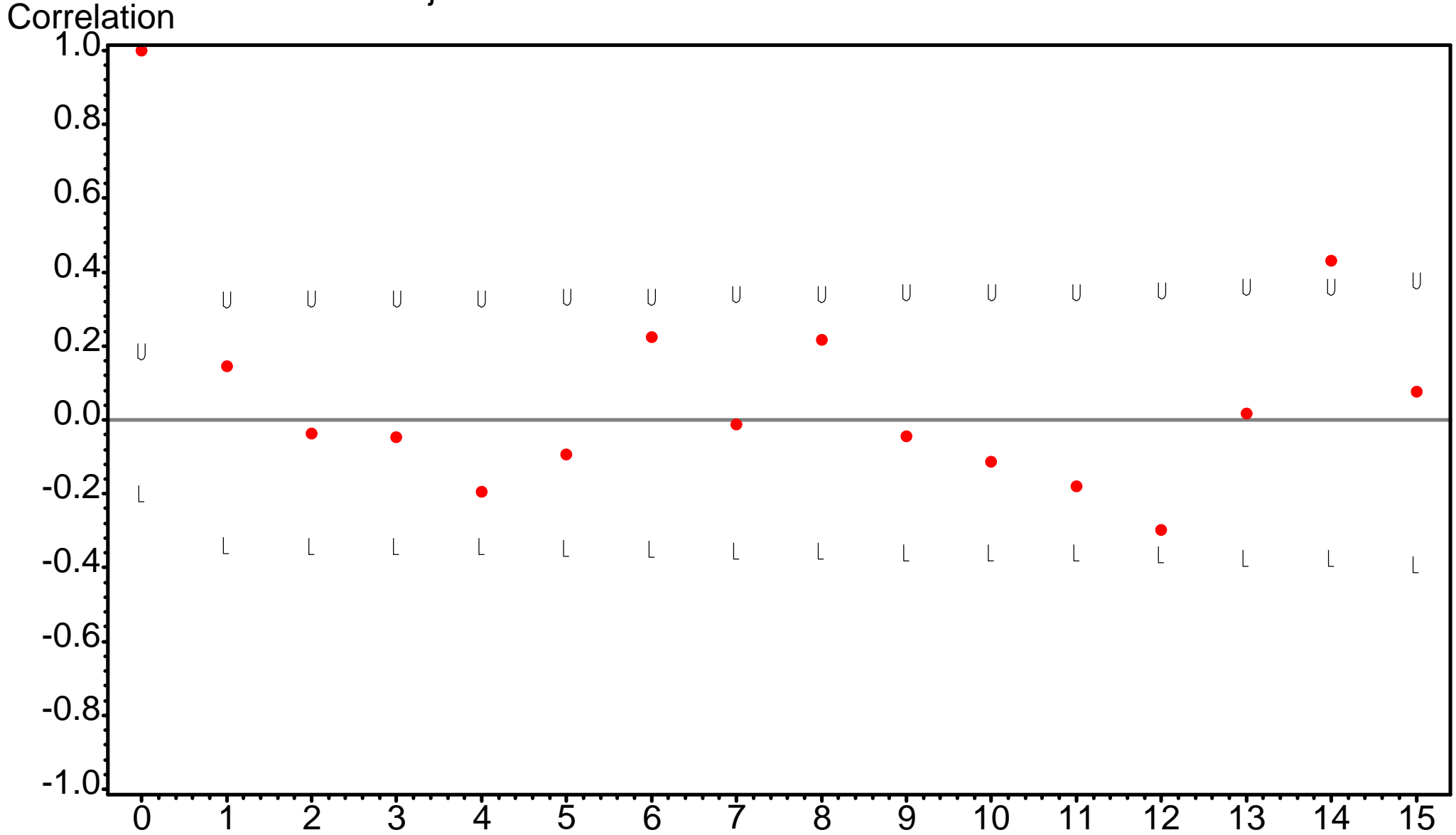
West Wall Trends Appendix - Display 2389

Autocorrelation Statistics for Surface Light Attenuation Coefficient in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Light Attenuation Coefficient	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.146	0.167	0.333	-0.333
2	-0.036	0.168	0.336	-0.336
3	-0.046	0.168	0.336	-0.336
4	-0.194	0.168	0.336	-0.336
5	-0.093	0.170	0.340	-0.340
6	0.225	0.171	0.341	-0.341
7	-0.013	0.173	0.347	-0.347
8	0.216	0.173	0.347	-0.347
9	-0.044	0.176	0.352	-0.352
10	-0.113	0.176	0.352	-0.352
11	-0.180	0.177	0.353	-0.353
12	-0.299	0.178	0.357	-0.357
13	0.017	0.183	0.366	-0.366
14	0.430	0.183	0.366	-0.366
15	0.077	0.192	0.384	-0.384

West Wall Trends Appendix - Display 2390

Correlogram for Surface Light Attenuation Coefficient in West Wall Adjusted for Seasonal Median and Detrended



Lagged Light Attenuation Coefficient

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

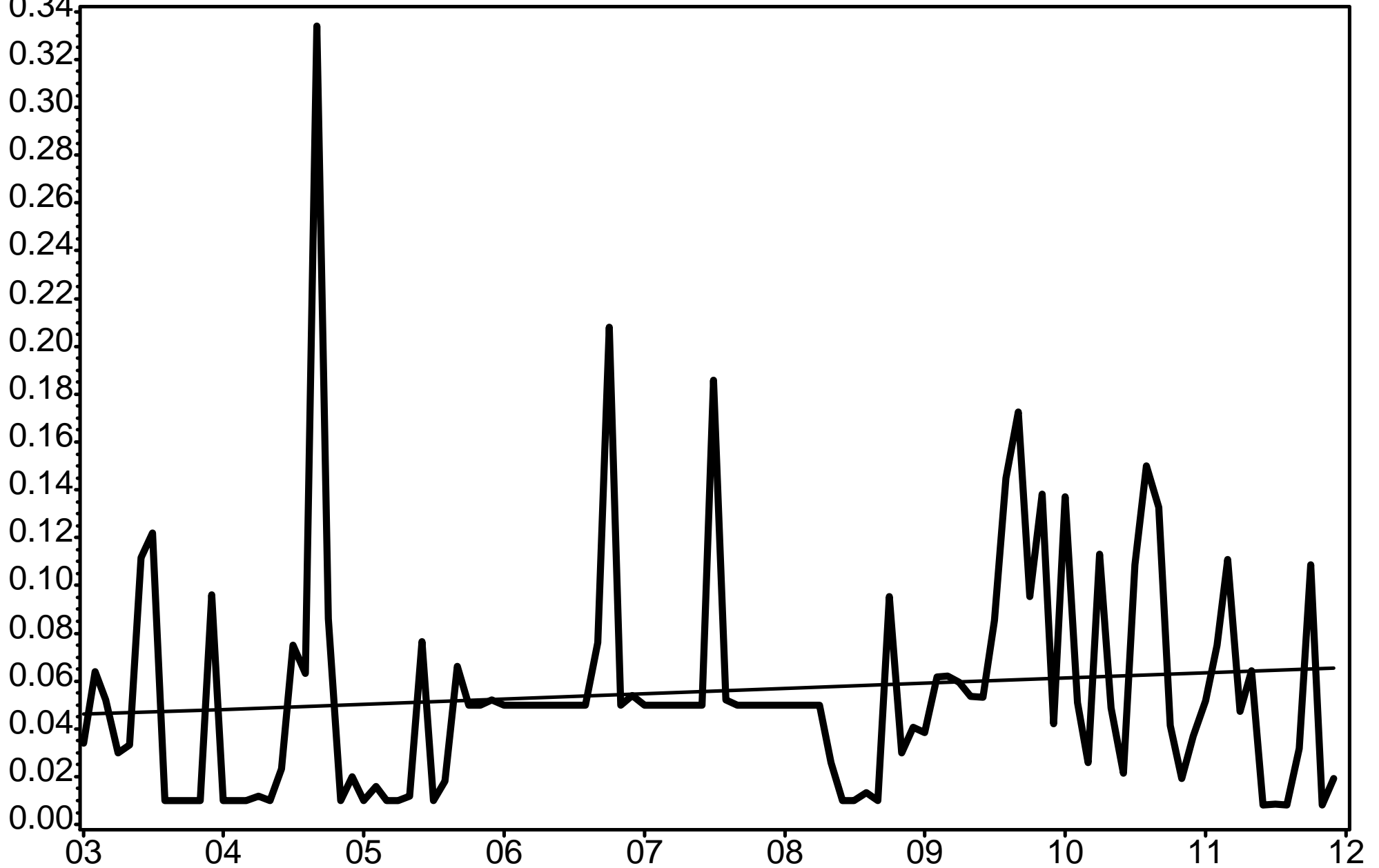
West Wall Trends Appendix - Display 2391

Monthly Data Time Series

for Surface Ammonia as N Total in West Wall

Not Adjusted for Seasonal Medians

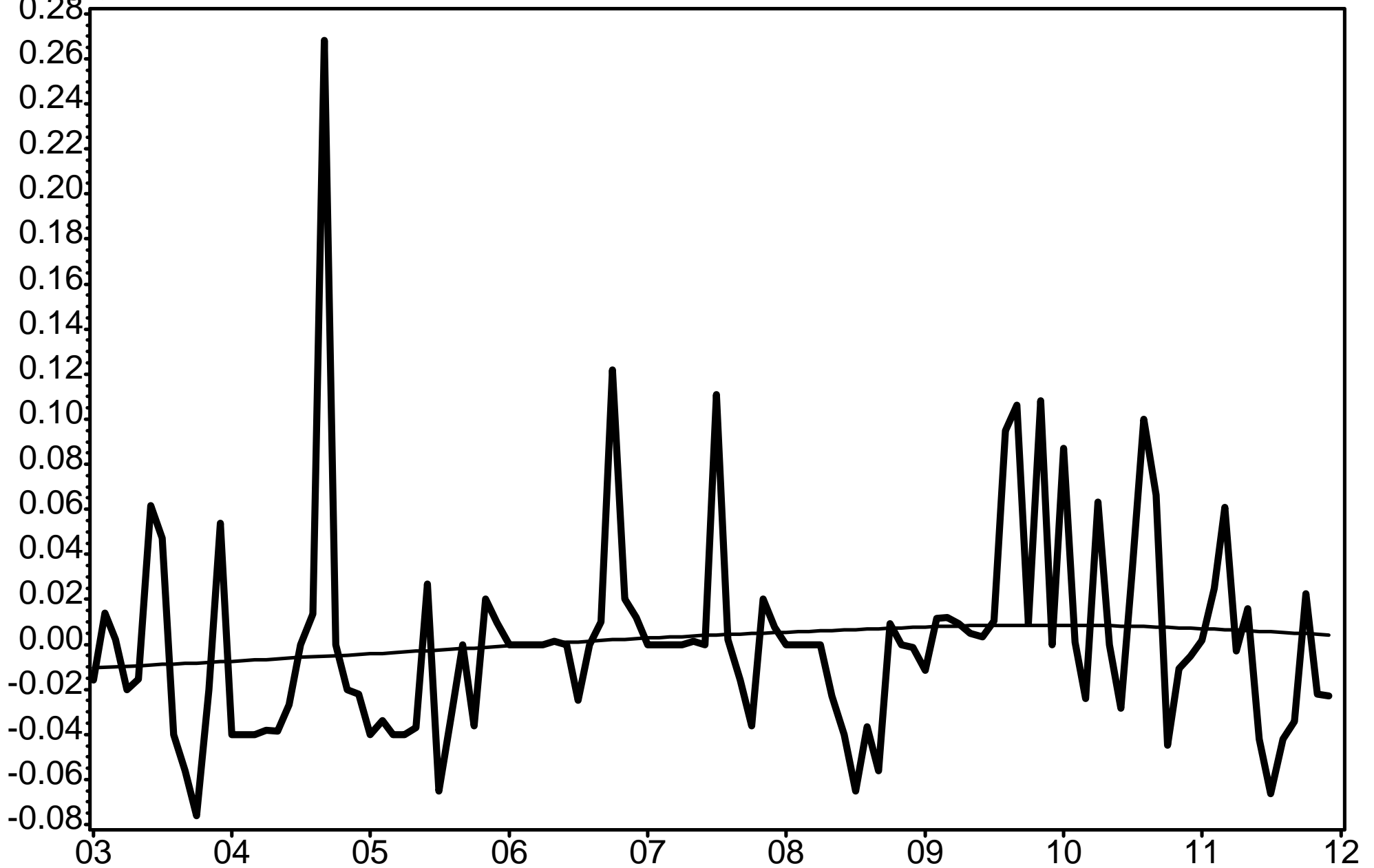
NH3_mgl
(mg/l)



West Wall Trends Appendix - Display 2392

Monthly Data Time Series
for Surface Ammonia as N Total in West Wall
Adjusted for Seasonal Medians

Adjusted
NH3_mgl
(mg/l)

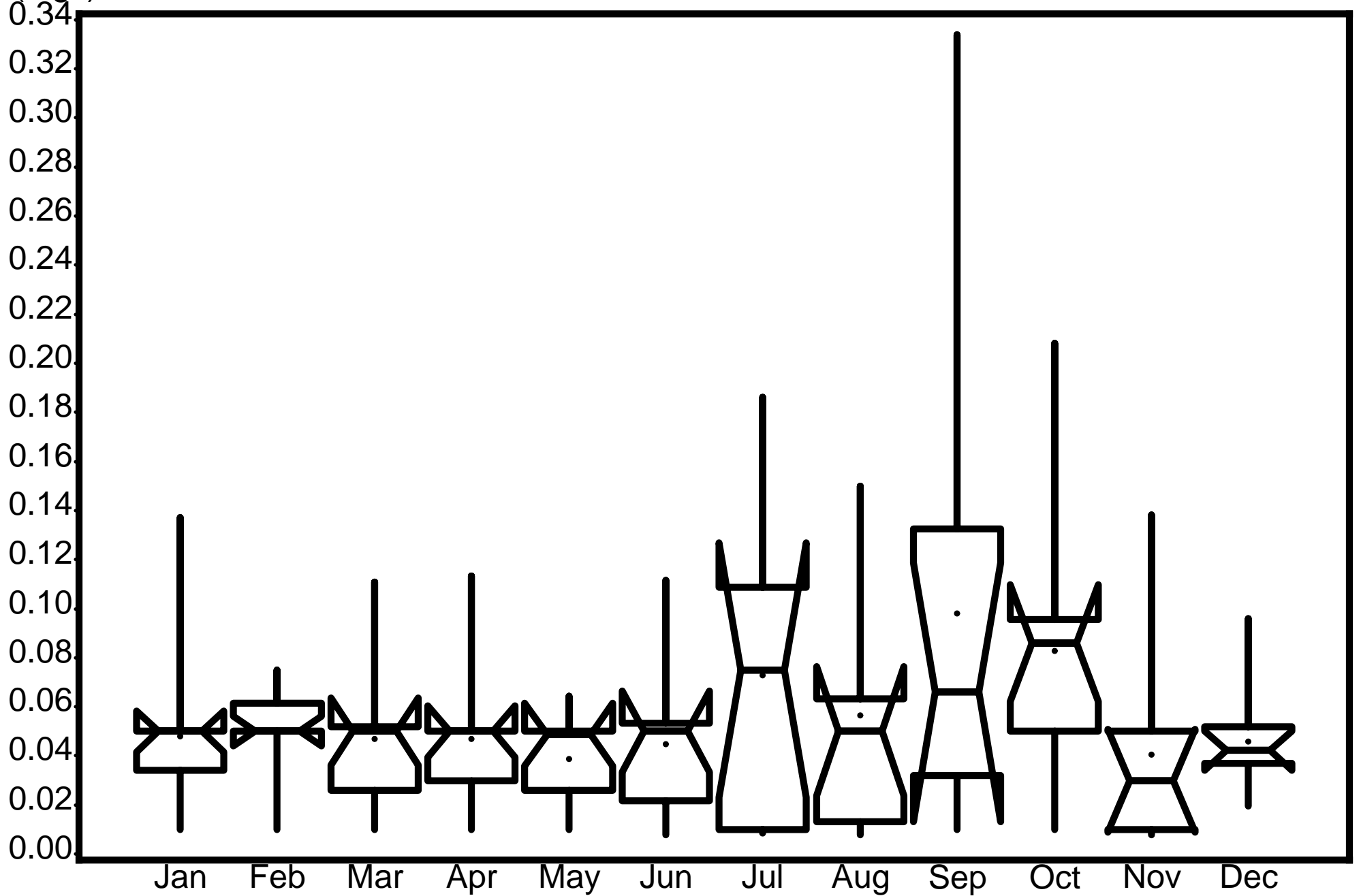


West Wall Trends Appendix - Display 2393

Seasonal Univariate Statistics

for Surface Ammonia as N Total in West Wall

NH3_mgl
(mg/l)



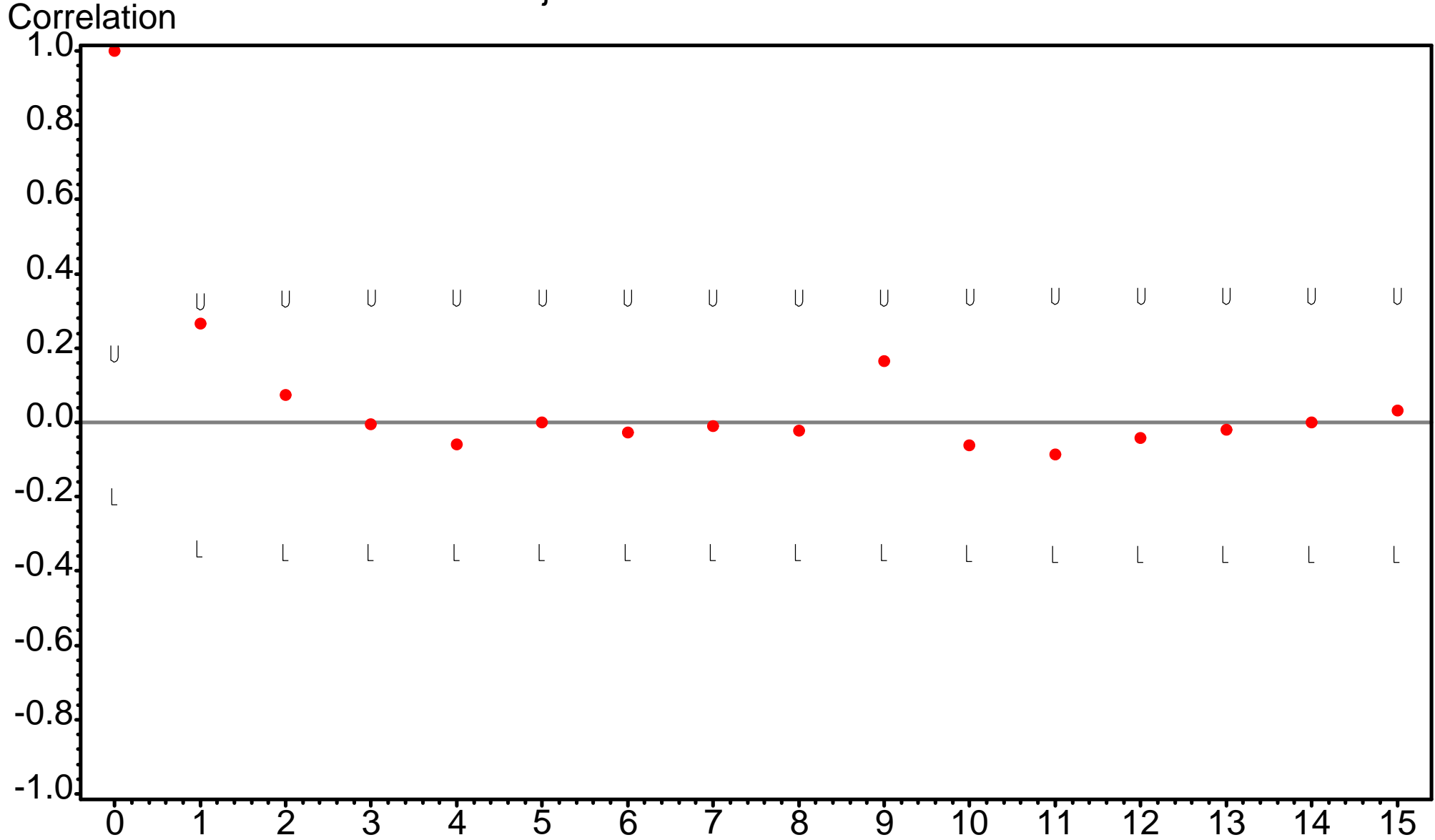
West Wall Trends Appendix - Display 2394
Autocorrelation Statistics for Surface Ammonia as N Total in West Wall

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.266	0.167	0.333	-0.333
2	0.074	0.171	0.341	-0.341
3	-0.004	0.171	0.342	-0.342
4	-0.058	0.171	0.342	-0.342
5	0.001	0.171	0.342	-0.342
6	-0.028	0.171	0.342	-0.342
7	-0.010	0.171	0.342	-0.342
8	-0.022	0.171	0.342	-0.342
9	0.165	0.171	0.342	-0.342
10	-0.062	0.173	0.345	-0.345
11	-0.087	0.173	0.346	-0.346
12	-0.042	0.173	0.346	-0.346
13	-0.020	0.173	0.347	-0.347
14	-0.001	0.173	0.347	-0.347
15	0.032	0.173	0.347	-0.347

West Wall Trends Appendix - Display 2395

Correlogram for Surface Ammonia as N Total in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2396
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.103	0.11	0.11	.001

West Wall Trends Appendix - Display 2397
Seasonal Kendall Tau Trend Test Statistics
for Surface Ammonia as N Total in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.125	0.10626	0.27912	.00158333

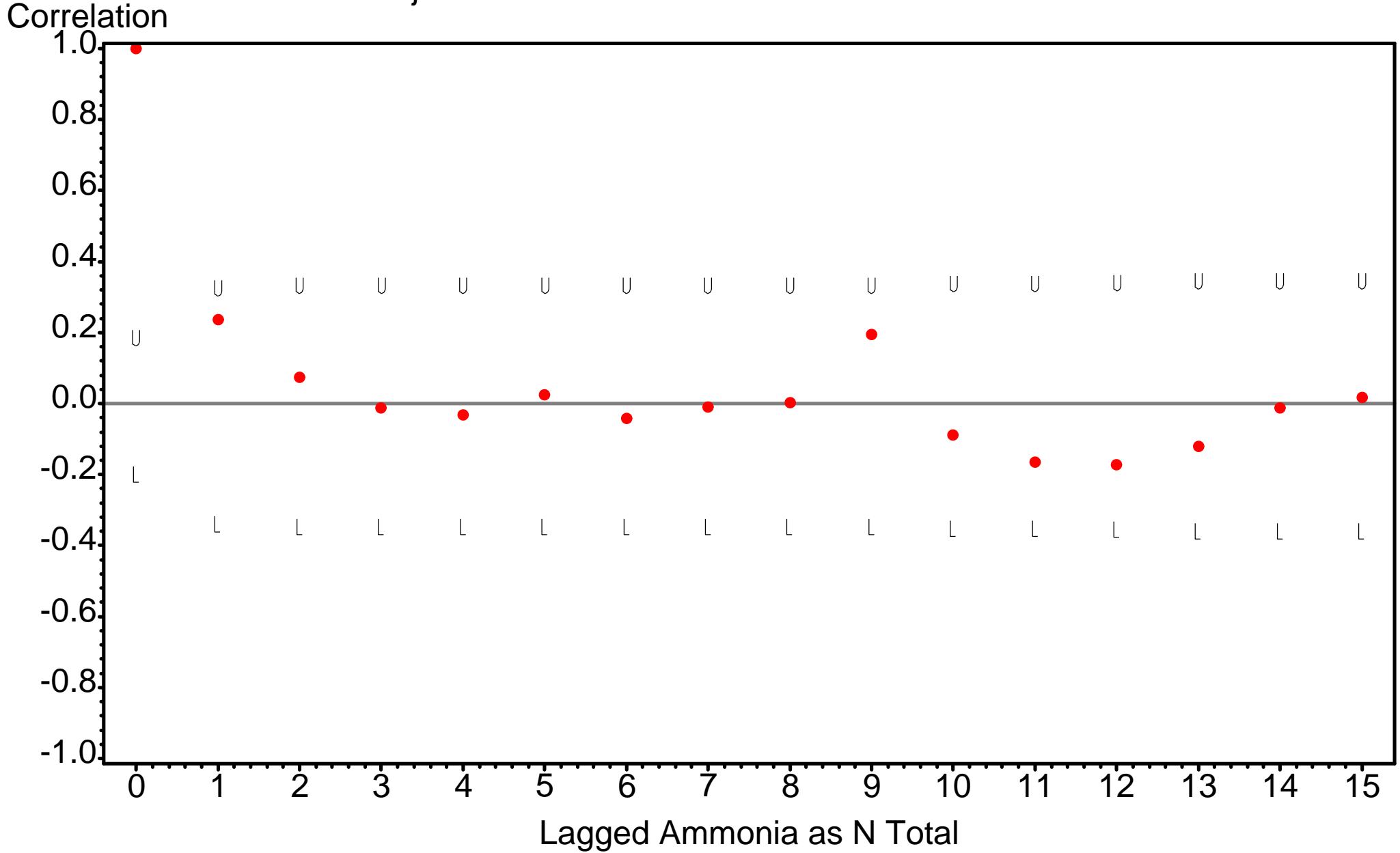
West Wall Trends Appendix - Display 2399
Autocorrelation Statistics for Surface Ammonia as N Total in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Ammonia as N Total	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.236	0.167	0.333	-0.333
2	0.074	0.170	0.339	-0.339
3	-0.013	0.170	0.340	-0.340
4	-0.033	0.170	0.340	-0.340
5	0.025	0.170	0.340	-0.340
6	-0.043	0.170	0.340	-0.340
7	-0.011	0.170	0.340	-0.340
8	0.002	0.170	0.340	-0.340
9	0.195	0.170	0.340	-0.340
10	-0.089	0.172	0.345	-0.345
11	-0.164	0.173	0.345	-0.345
12	-0.172	0.174	0.348	-0.348
13	-0.120	0.176	0.351	-0.351
14	-0.012	0.176	0.353	-0.353
15	0.018	0.177	0.353	-0.353

West Wall Trends Appendix - Display 2400

Correlogram for Surface Ammonia as N Total in West Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

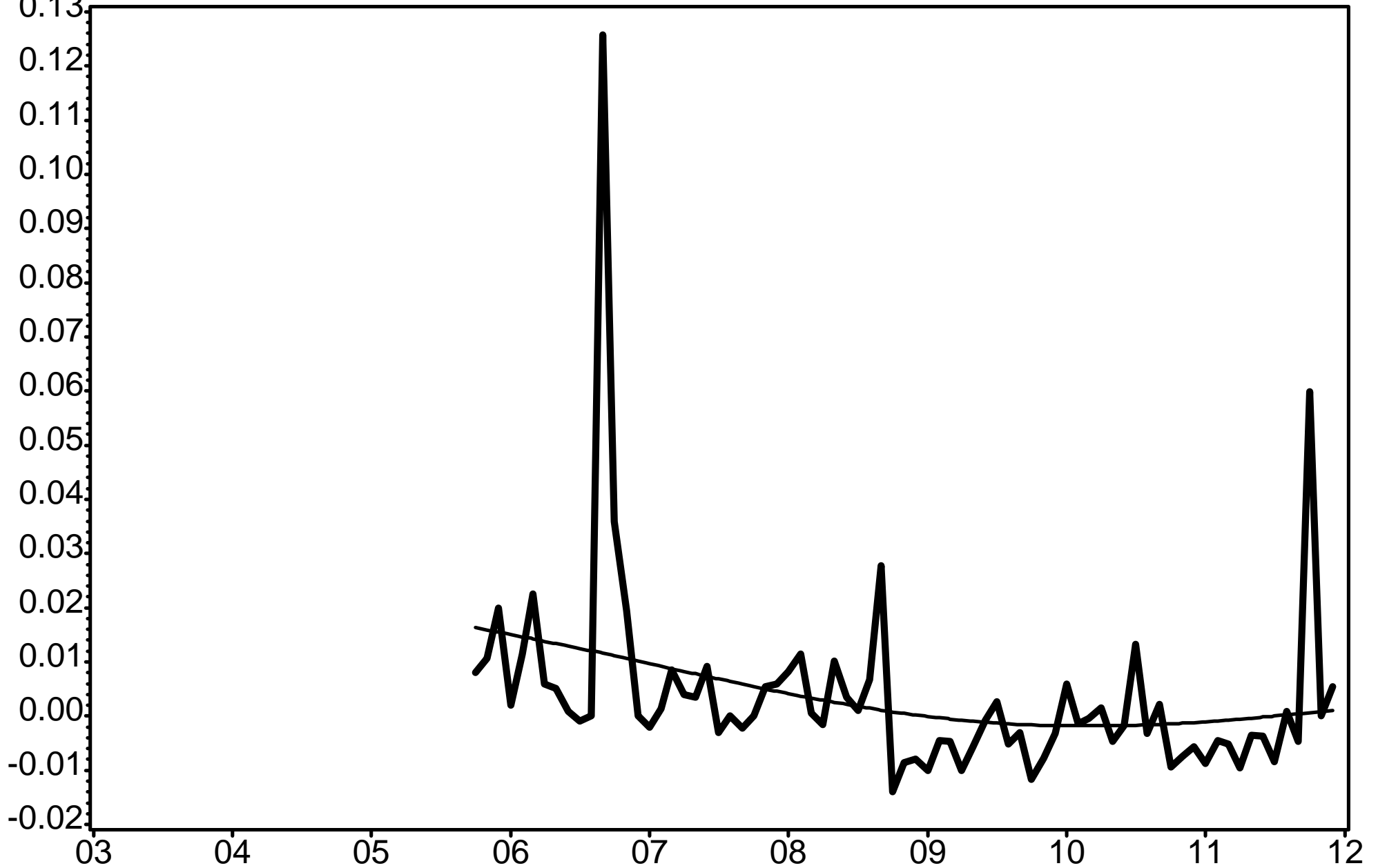
West Wall Trends Appendix - Display 2402

Monthly Data Time Series

for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall

Adjusted for Seasonal Medians

Adjusted
NO23_mgl
(mg/l)

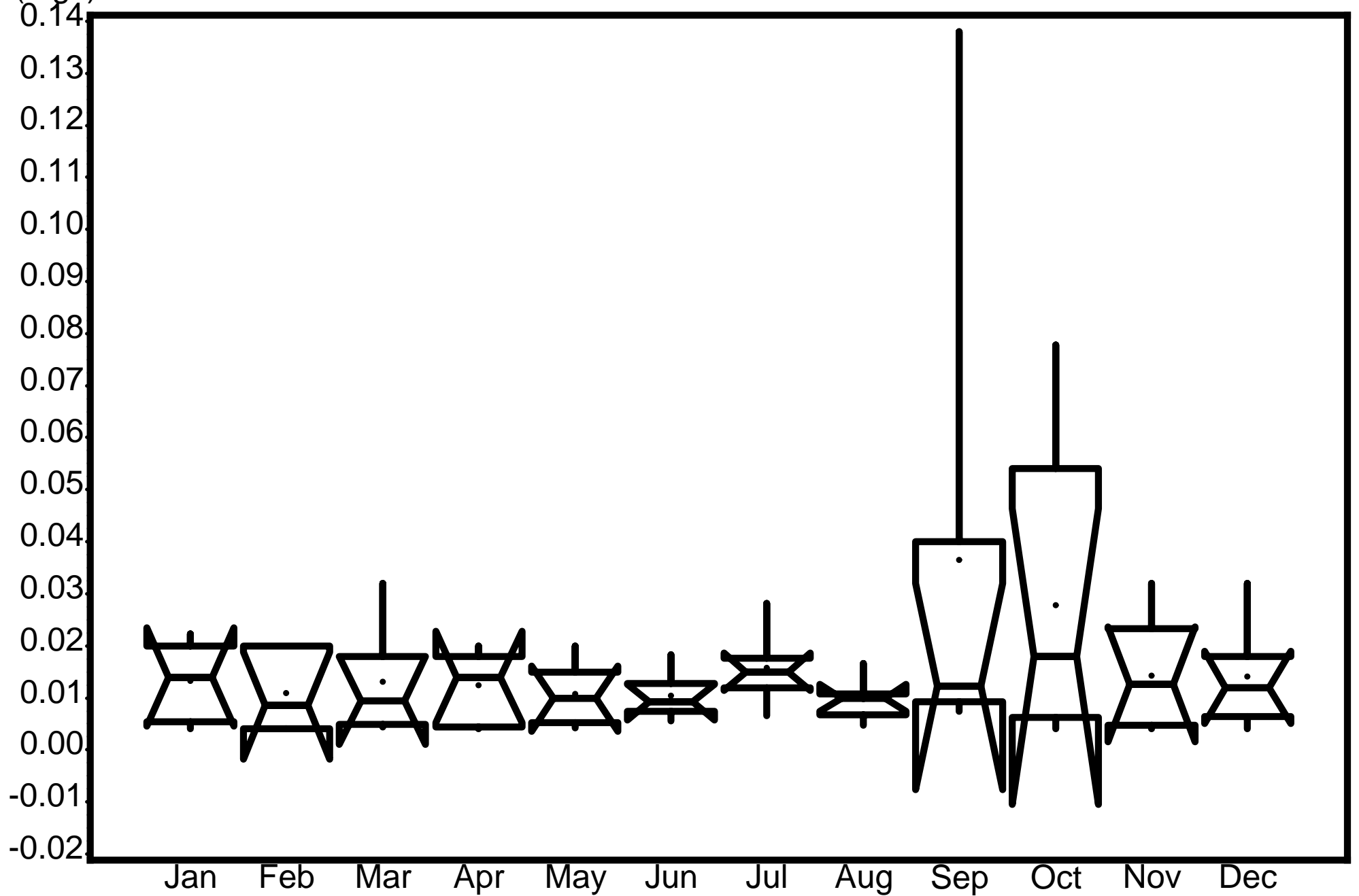


West Wall Trends Appendix - Display 2403

Seasonal Univariate Statistics

for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall

NO23_mgl
(mg/l)



West Wall Trends Appendix - Display 2404

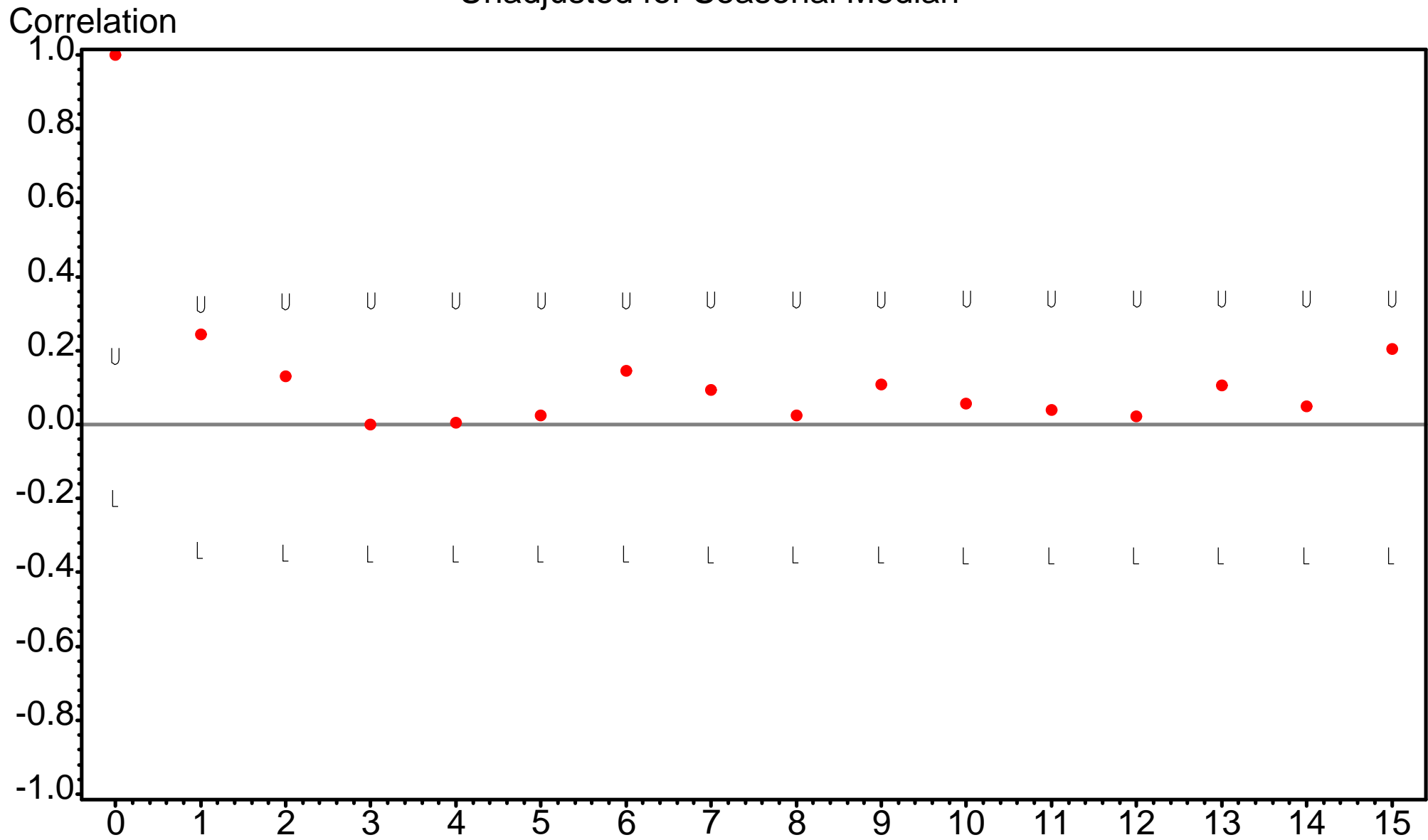
Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.245	0.167	0.333	-0.333
2	0.130	0.170	0.340	-0.340
3	-0.001	0.171	0.342	-0.342
4	0.006	0.171	0.342	-0.342
5	0.024	0.171	0.342	-0.342
6	0.145	0.171	0.342	-0.342
7	0.093	0.172	0.344	-0.344
8	0.024	0.173	0.345	-0.345
9	0.108	0.173	0.345	-0.345
10	0.057	0.173	0.346	-0.346
11	0.040	0.173	0.347	-0.347
12	0.023	0.173	0.347	-0.347
13	0.105	0.173	0.347	-0.347
14	0.050	0.174	0.348	-0.348
15	0.204	0.174	0.348	-0.348

West Wall Trends Appendix - Display 2405

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall

Unadjusted for Seasonal Median



Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2406
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.332	0	0	-.002

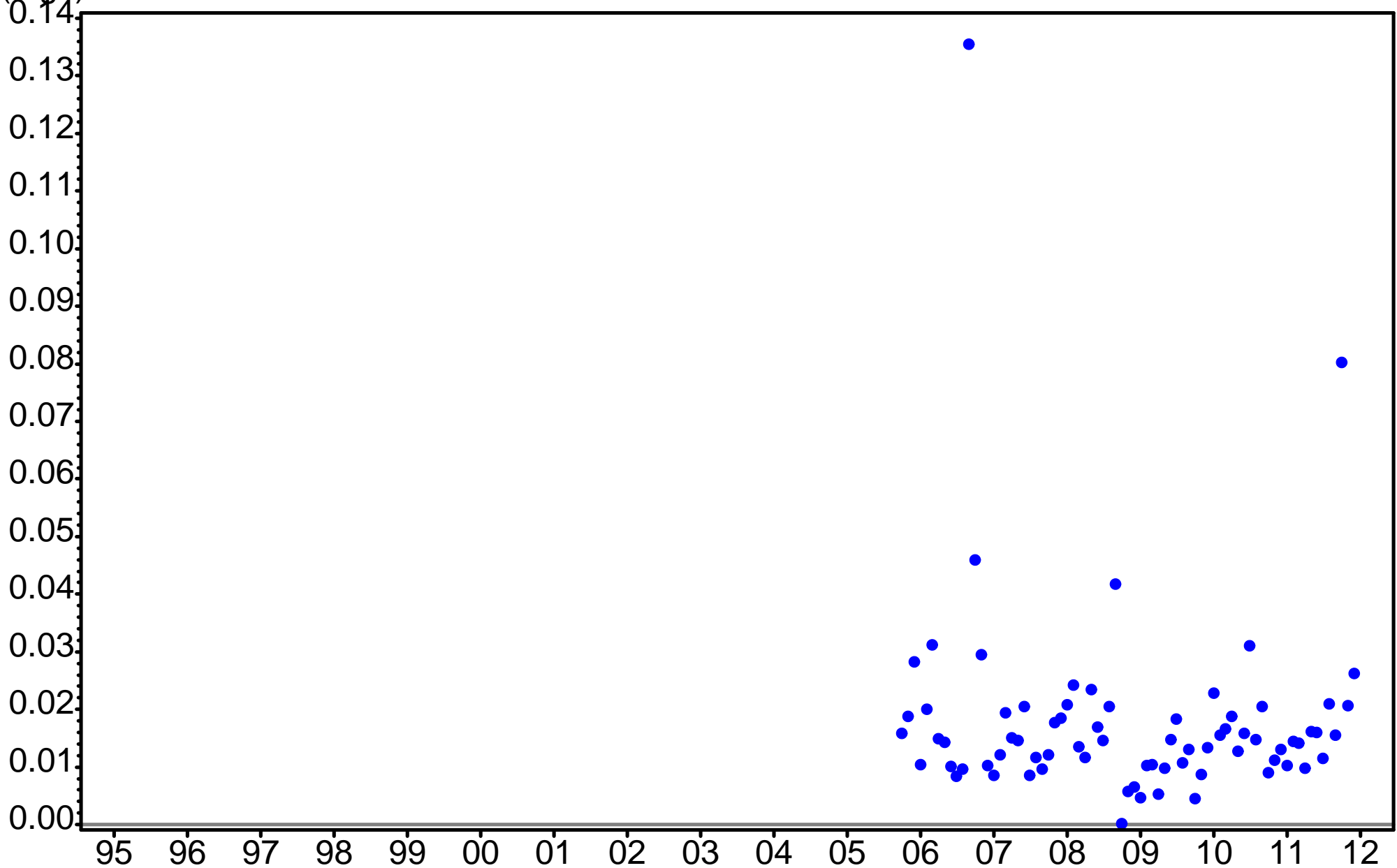
West Wall Trends Appendix - Display 2407
Seasonal Kendall Tau Trend Test Statistics
for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.35354	.00041522	0.058932	-.0021

West Wall Trends Appendix - Display 2408

Time Series Plot of Surface Nitrate+Nitrite (TOTAL AS N) Data Adjusted for Season and Detrended
Adjusted
West Wall

(mg/l)



Zero Reference Line Shown

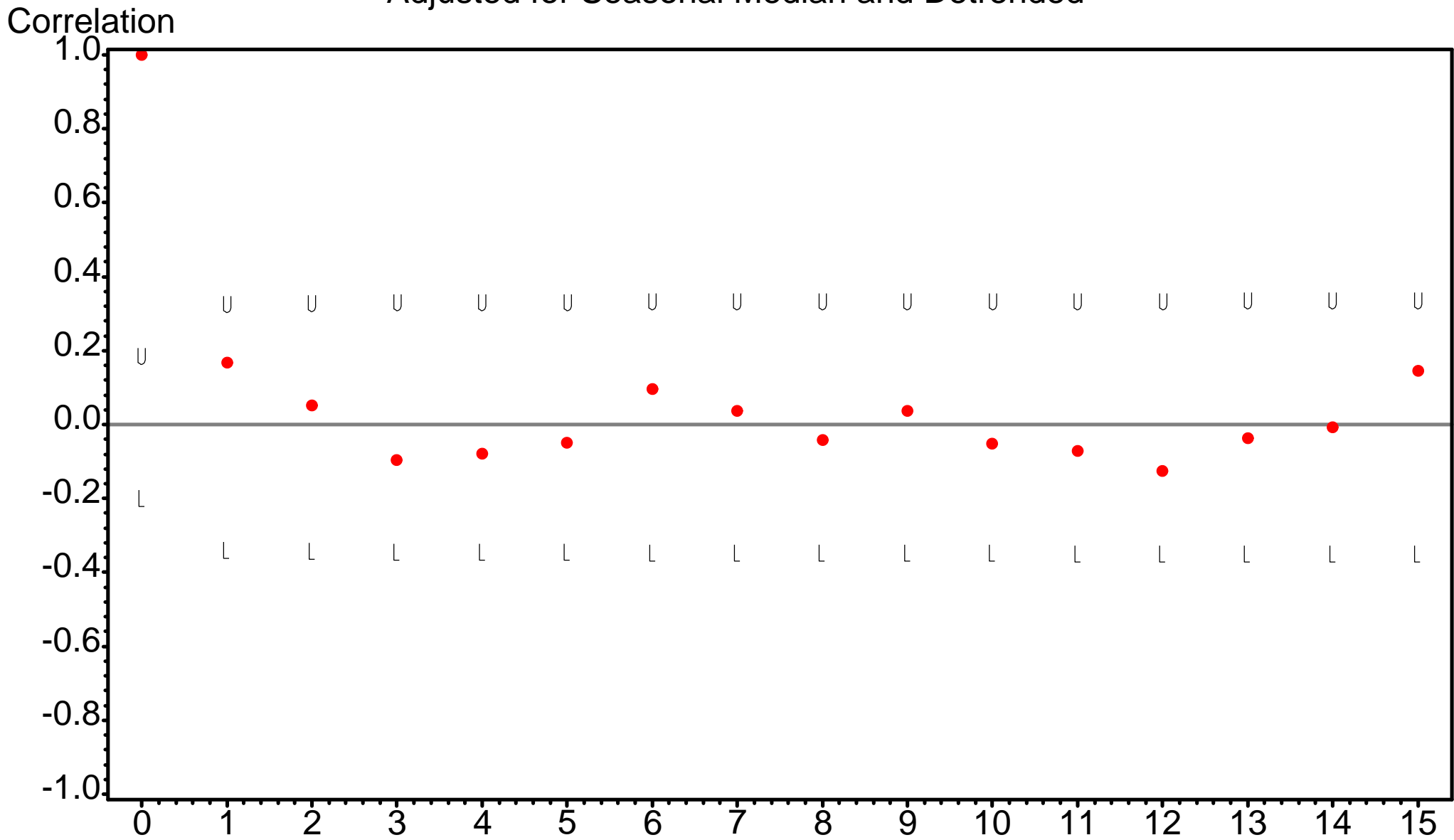
West Wall Trends Appendix - Display 2409

Autocorrelation Statistics for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Nitrate+Nitrite (TOTAL AS N)	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.168	0.167	0.333	-0.333
2	0.051	0.168	0.336	-0.336
3	-0.096	0.168	0.337	-0.337
4	-0.079	0.169	0.338	-0.338
5	-0.048	0.169	0.338	-0.338
6	0.097	0.169	0.339	-0.339
7	0.036	0.170	0.340	-0.340
8	-0.043	0.170	0.340	-0.340
9	0.037	0.170	0.340	-0.340
10	-0.051	0.170	0.340	-0.340
11	-0.071	0.170	0.341	-0.341
12	-0.125	0.171	0.341	-0.341
13	-0.036	0.171	0.343	-0.343
14	-0.008	0.171	0.343	-0.343
15	0.145	0.171	0.343	-0.343

West Wall Trends Appendix - Display 2410

Correlogram for Surface Nitrate+Nitrite (TOTAL AS N) in West Wall Adjusted for Seasonal Median and Detrended

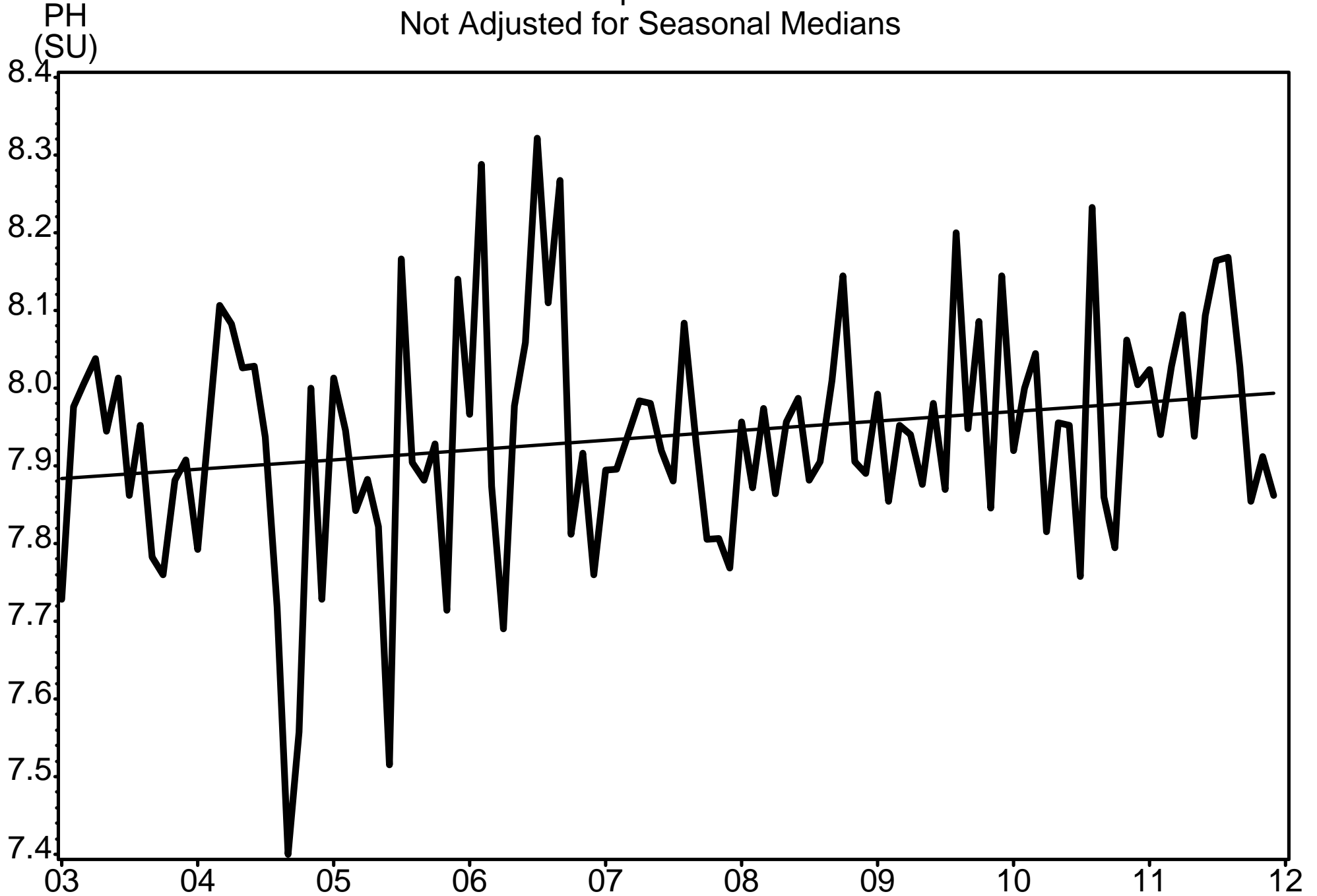


Lagged Nitrate+Nitrite (TOTAL AS N)

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2411

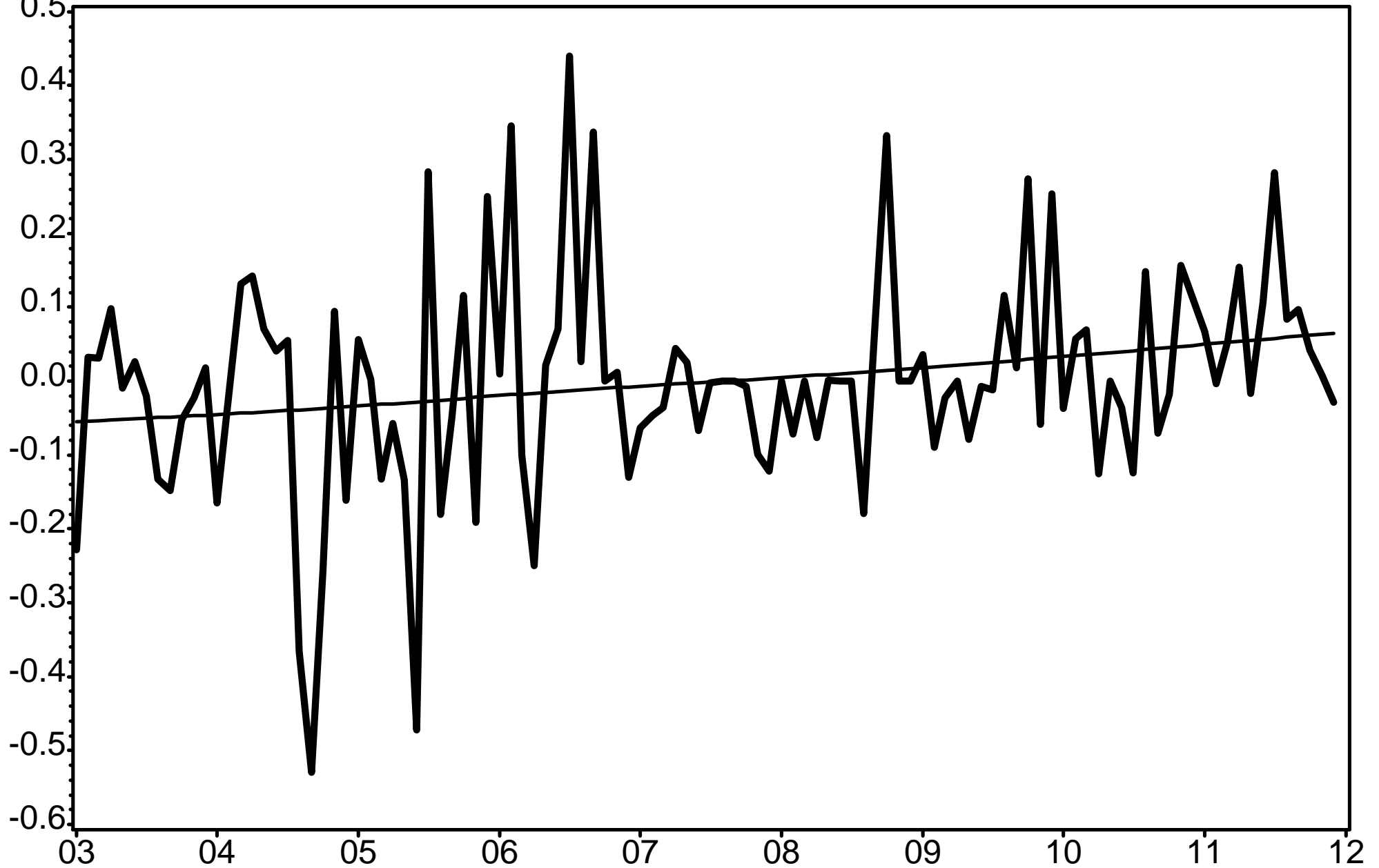
Monthly Data Time Series
for Surface pH in West Wall
Not Adjusted for Seasonal Medians



West Wall Trends Appendix - Display 2412

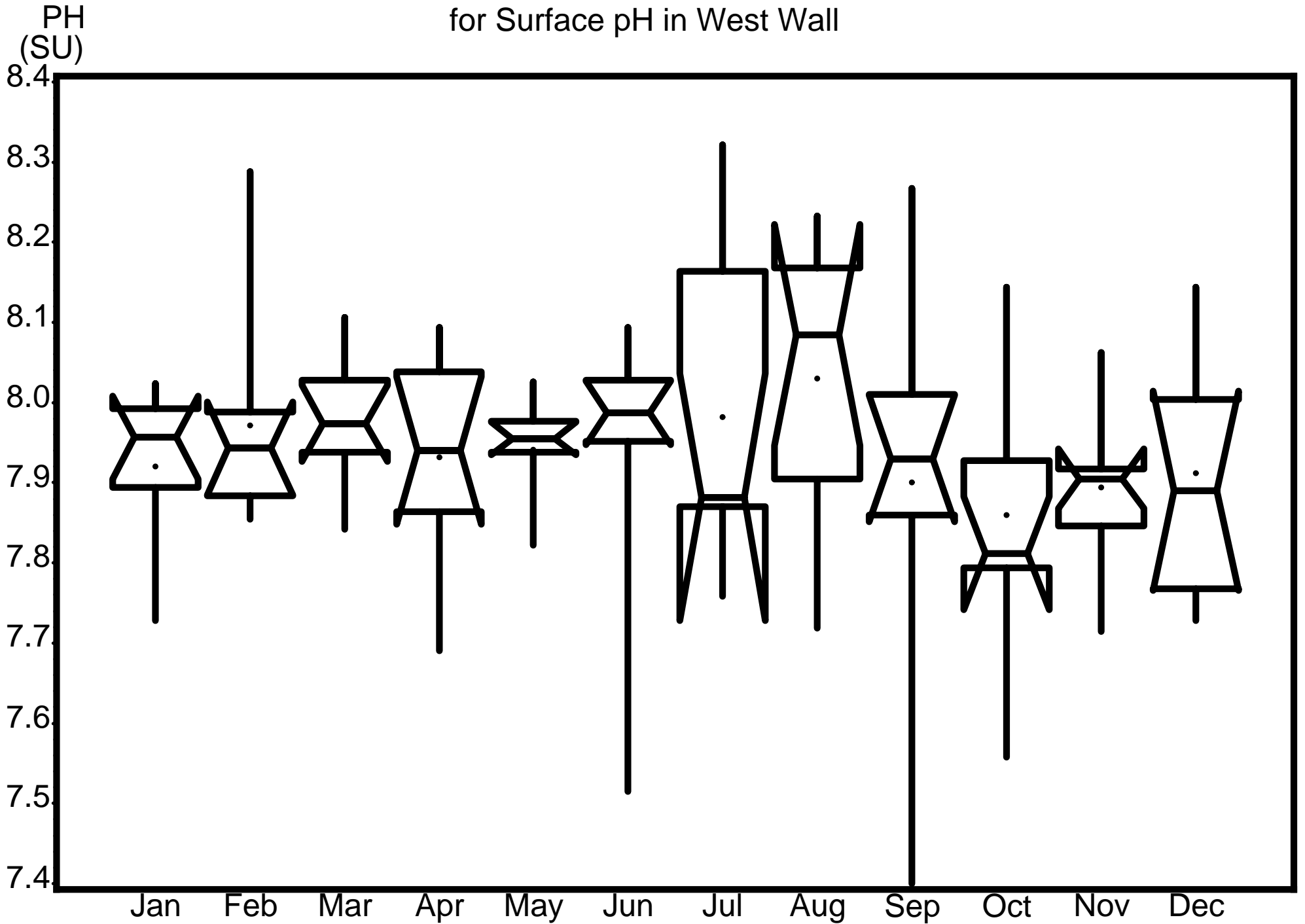
Monthly Data Time Series
for Surface pH in West Wall
Adjusted for Seasonal Medians

Adjusted
PH
(SU)



West Wall Trends Appendix - Display 2413

Seasonal Univariate Statistics for Surface pH in West Wall

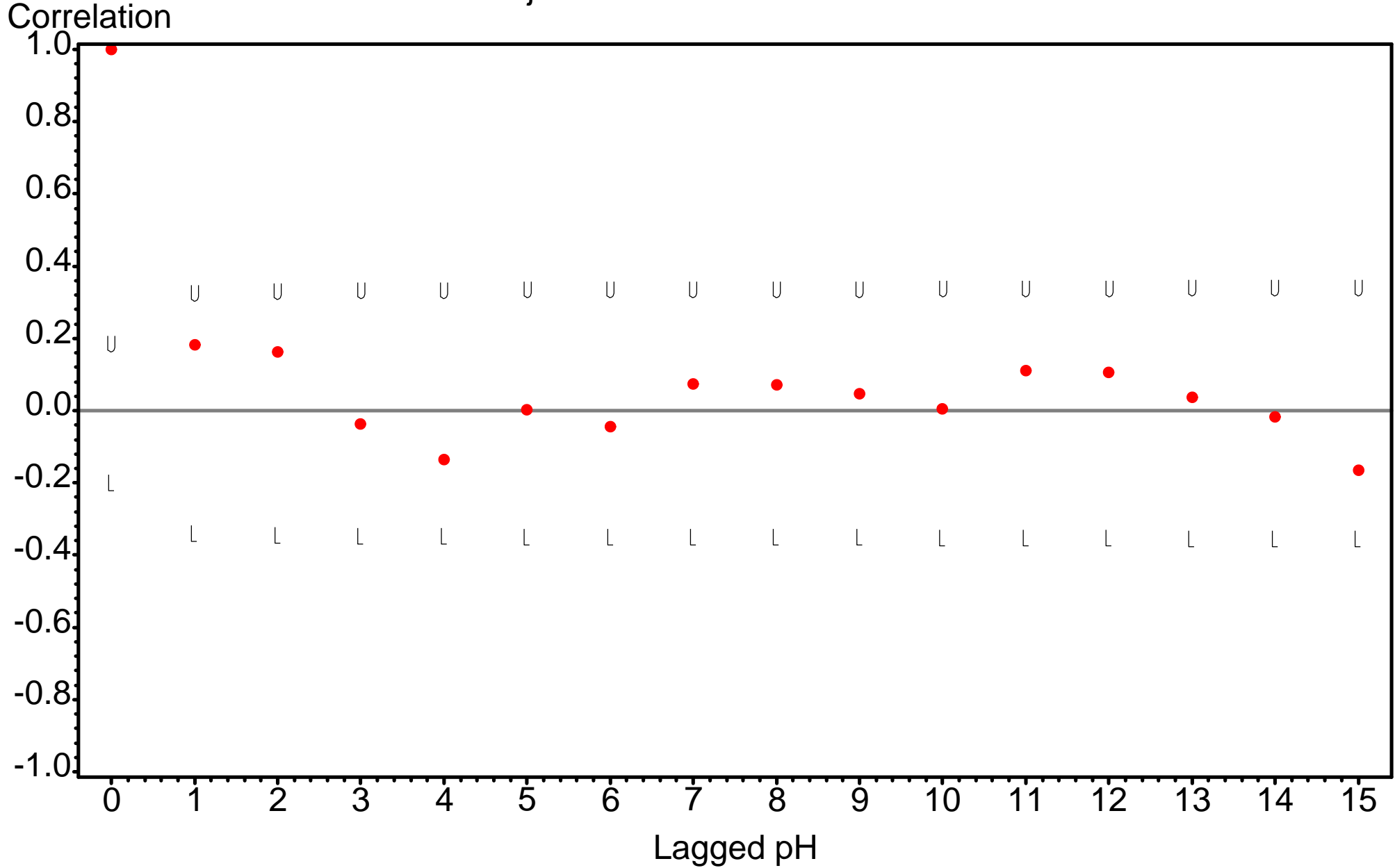


West Wall Trends Appendix - Display 2414
Autocorrelation Statistics for Surface pH in West Wall

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.182	0.167	0.333	-0.333
2	0.162	0.168	0.337	-0.337
3	-0.037	0.170	0.340	-0.340
4	-0.136	0.170	0.340	-0.340
5	0.002	0.171	0.342	-0.342
6	-0.045	0.171	0.342	-0.342
7	0.073	0.171	0.342	-0.342
8	0.071	0.171	0.343	-0.343
9	0.048	0.172	0.343	-0.343
10	0.006	0.172	0.344	-0.344
11	0.110	0.172	0.344	-0.344
12	0.106	0.172	0.345	-0.345
13	0.037	0.173	0.346	-0.346
14	-0.018	0.173	0.346	-0.346
15	-0.165	0.173	0.346	-0.346

West Wall Trends Appendix - Display 2415

Correlogram for Surface pH in West Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2416
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.124	0.059	0.059	0.01

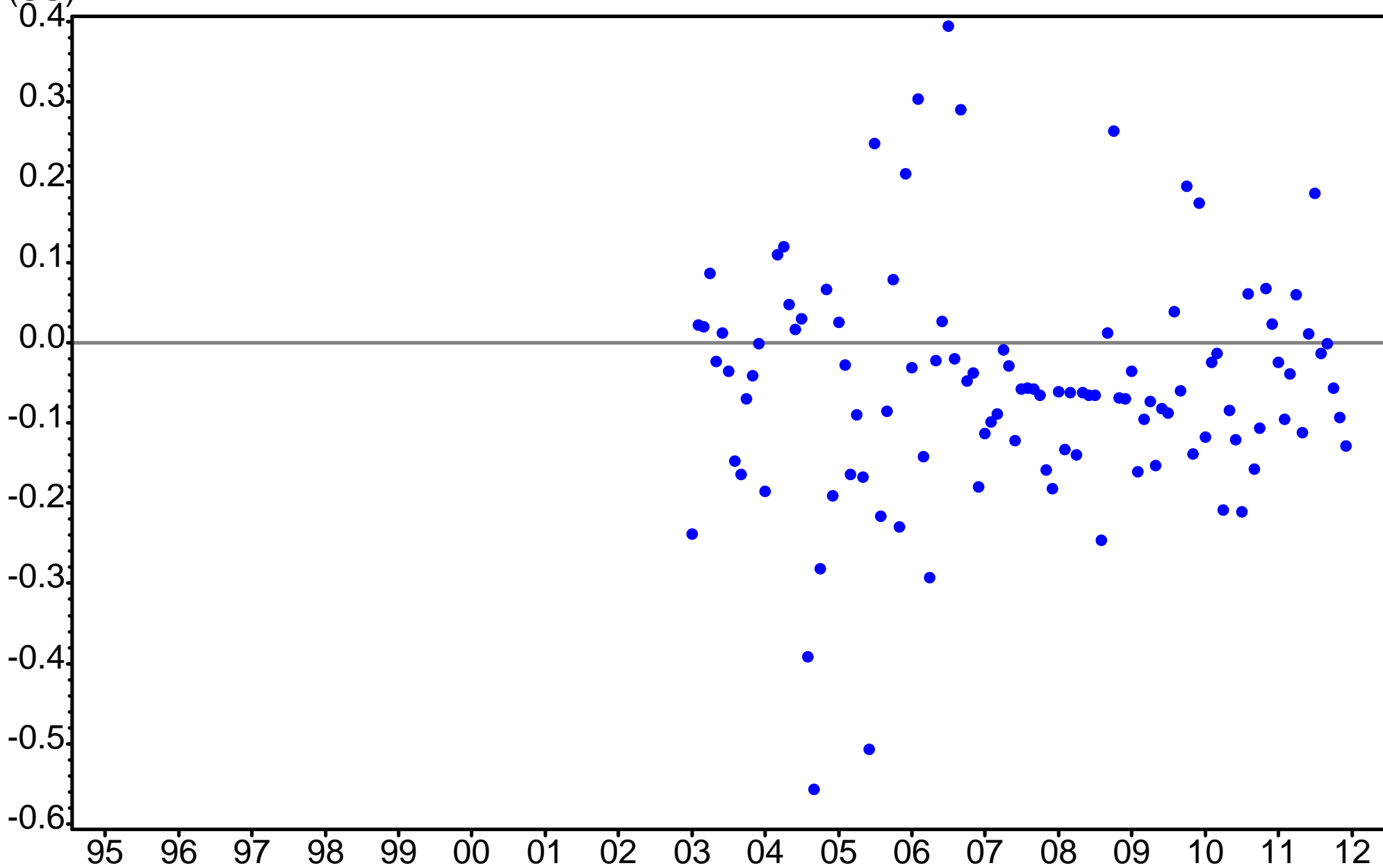
West Wall Trends Appendix - Display 2417
Seasonal Kendall Tau Trend Test Statistics
for Surface pH in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.14151	0.072251	0.095074	0.010167

West Wall Trends Appendix - Display 2418

Time Series Plot of Surface pH Data Adjusted for Season and Detrended
West Wall

Adjusted
(SU)



Zero Reference Line Shown

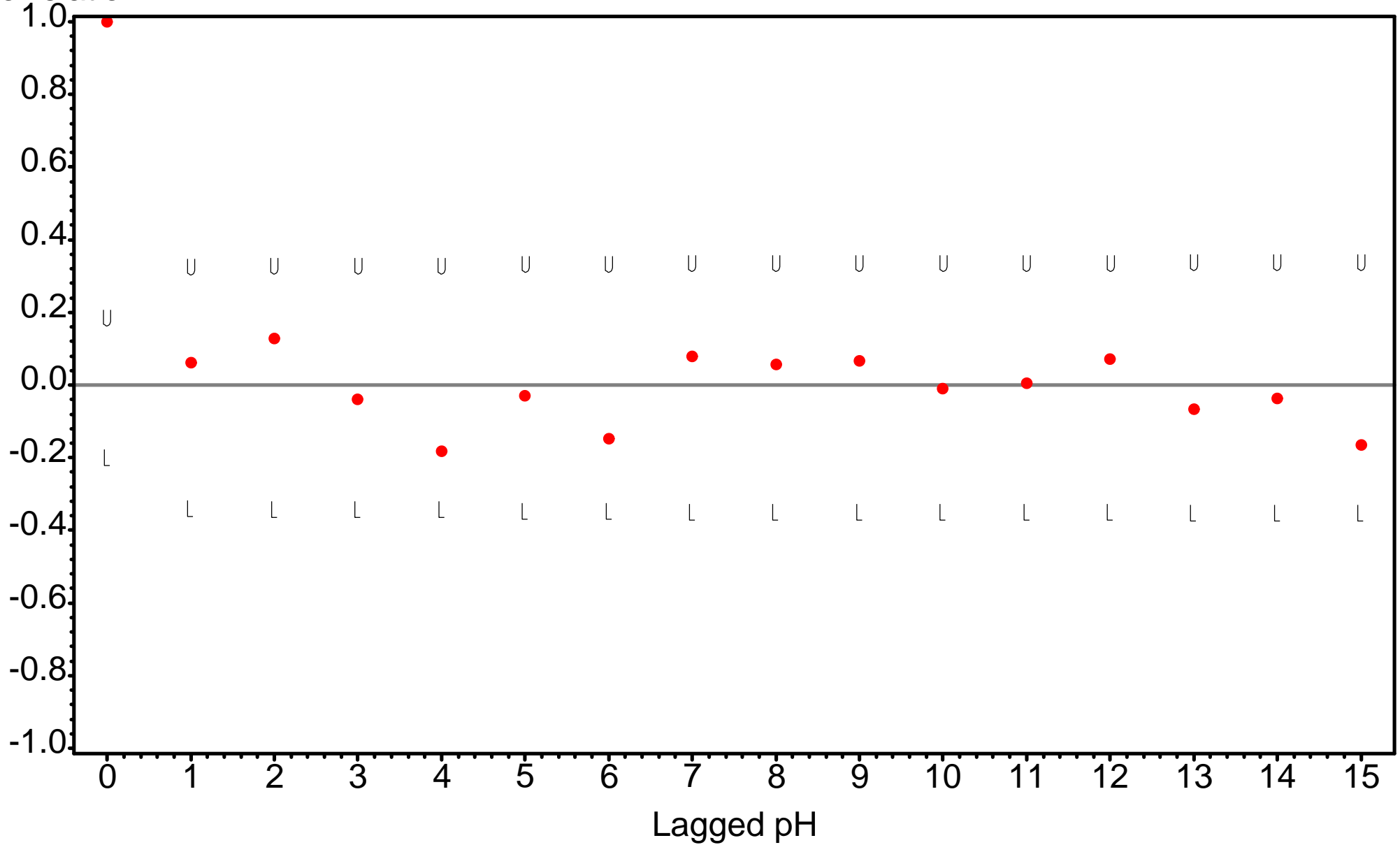
West Wall Trends Appendix - Display 2419
 Autocorrelation Statistics for Surface pH in West Wall
 Adjusted for Seasonal Median and Detrended

Lagged pH	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.061	0.167	0.333	-0.333
2	0.128	0.167	0.334	-0.334
3	-0.040	0.168	0.336	-0.336
4	-0.181	0.168	0.336	-0.336
5	-0.029	0.170	0.339	-0.339
6	-0.148	0.170	0.339	-0.339
7	0.078	0.171	0.342	-0.342
8	0.056	0.171	0.342	-0.342
9	0.066	0.171	0.343	-0.343
10	-0.009	0.172	0.343	-0.343
11	0.006	0.172	0.343	-0.343
12	0.072	0.172	0.343	-0.343
13	-0.067	0.172	0.344	-0.344
14	-0.037	0.172	0.344	-0.344
15	-0.166	0.172	0.345	-0.345

West Wall Trends Appendix - Display 2420

Correlogram for Surface pH in West Wall
Adjusted for Seasonal Median and Detrended

Correlation

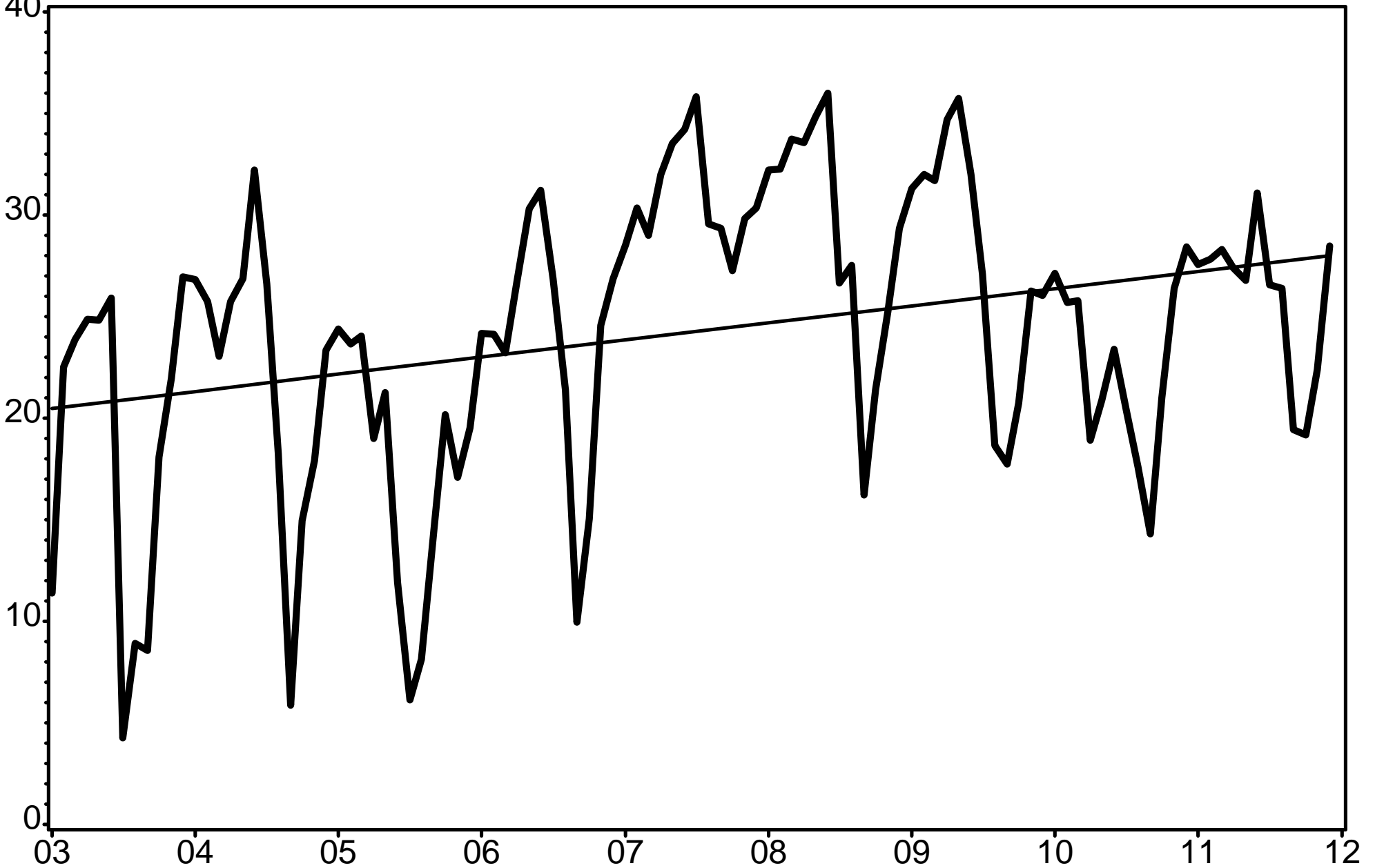


U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2421

Monthly Data Time Series
for Surface Salinity in West Wall
Not Adjusted for Seasonal Medians

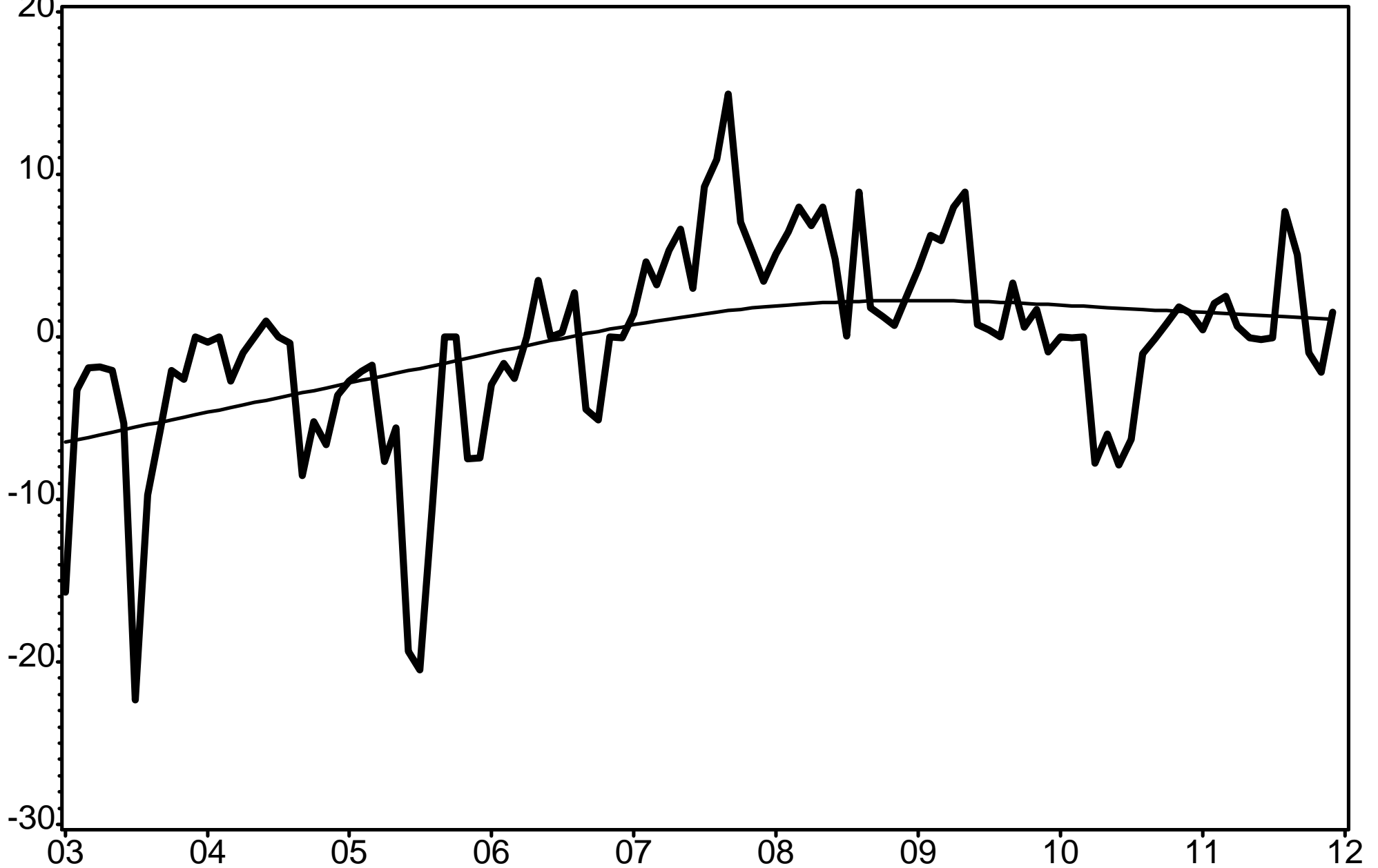
Salinity
(ppt)



West Wall Trends Appendix - Display 2422

Monthly Data Time Series
for Surface Salinity in West Wall
Adjusted for Seasonal Medians

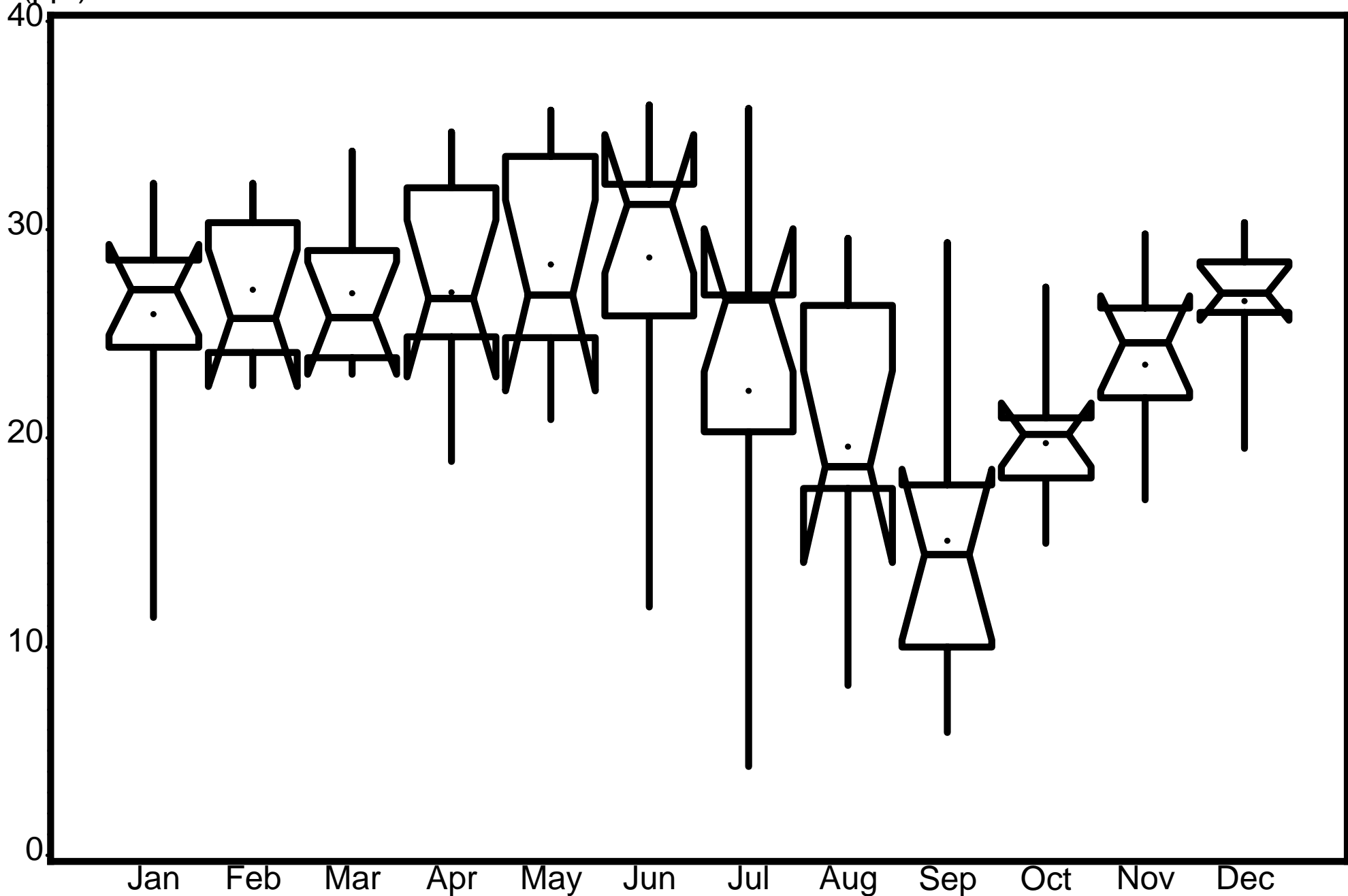
Adjusted
Salinity
(ppt)



West Wall Trends Appendix - Display 2423

Seasonal Univariate Statistics for Surface Salinity in West Wall

Salinity
(ppt)

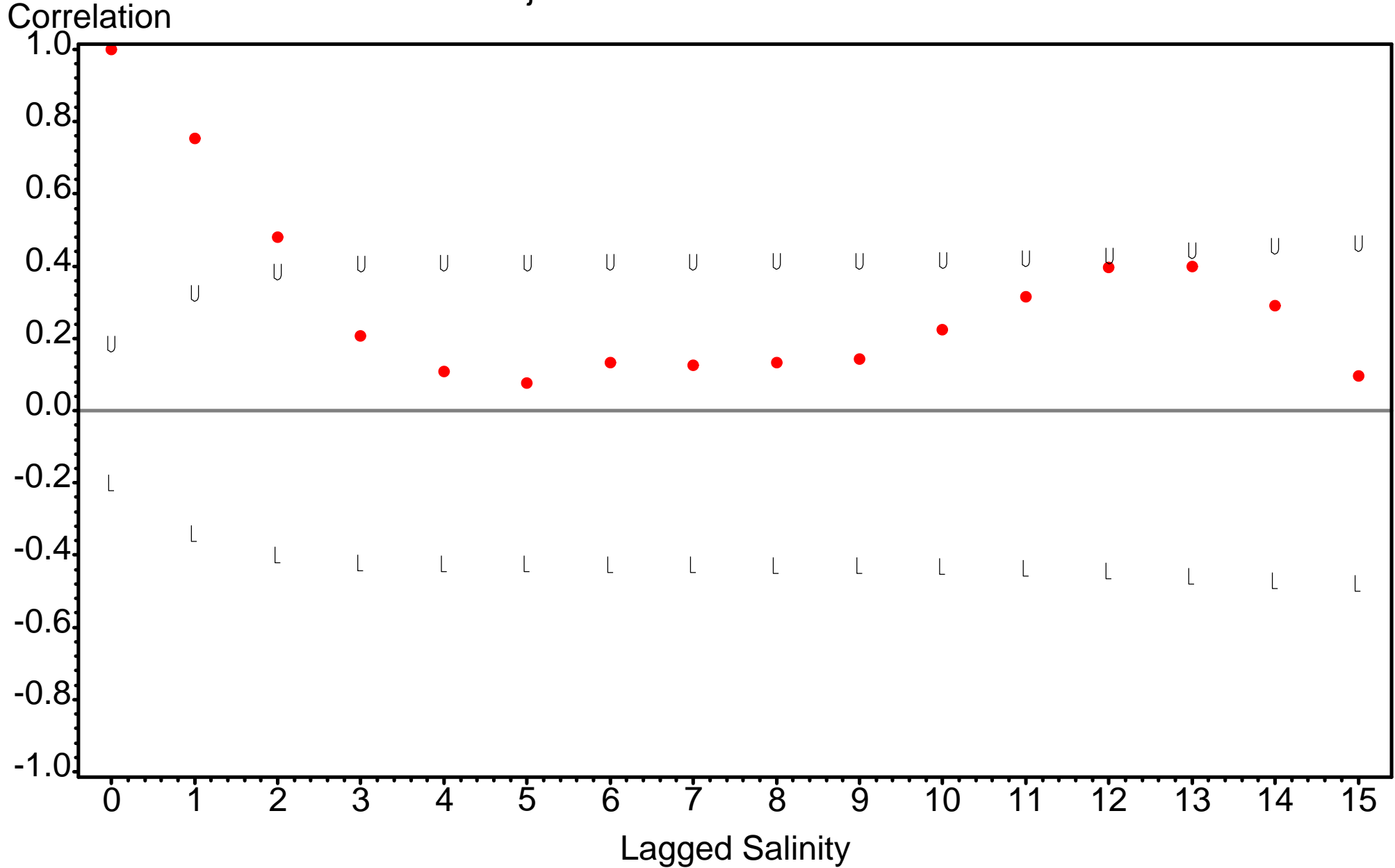


West Wall Trends Appendix - Display 2424
Autocorrelation Statistics for Surface Salinity in West Wall

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.753	0.167	0.333	-0.333
2	0.480	0.196	0.391	-0.391
3	0.206	0.206	0.413	-0.413
4	0.108	0.208	0.416	-0.416
5	0.077	0.209	0.417	-0.417
6	0.134	0.209	0.418	-0.418
7	0.125	0.210	0.419	-0.419
8	0.132	0.210	0.421	-0.421
9	0.143	0.211	0.422	-0.422
10	0.223	0.212	0.424	-0.424
11	0.315	0.214	0.428	-0.428
12	0.396	0.218	0.437	-0.437
13	0.399	0.225	0.450	-0.450
14	0.291	0.231	0.463	-0.463
15	0.095	0.235	0.470	-0.470

West Wall Trends Appendix - Display 2425

Correlogram for Surface Salinity in West Wall Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2426
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.193	.003	.003	0.673

West Wall Trends Appendix - Display 2427
Seasonal Kendall Tau Trend Test Statistics
for Surface Salinity in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
0.32407	.000028849	0.12760	0.74205

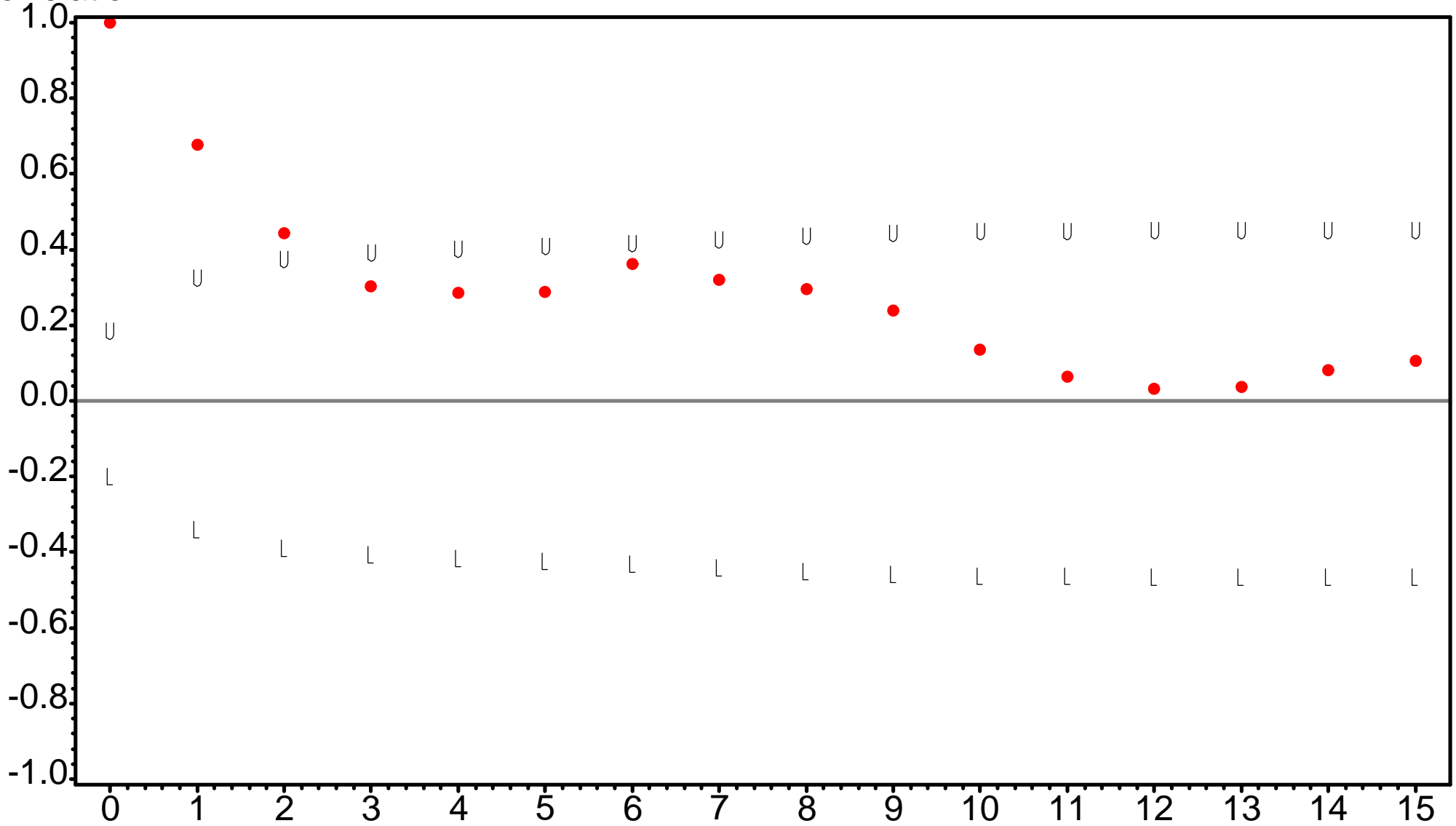
West Wall Trends Appendix - Display 2429
Autocorrelation Statistics for Surface Salinity in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Salinity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.677	0.167	0.333	-0.333
2	0.442	0.190	0.381	-0.381
3	0.304	0.200	0.399	-0.399
4	0.286	0.204	0.408	-0.408
5	0.289	0.208	0.415	-0.415
6	0.363	0.211	0.423	-0.423
7	0.321	0.217	0.434	-0.434
8	0.295	0.221	0.443	-0.443
9	0.240	0.225	0.450	-0.450
10	0.136	0.227	0.455	-0.455
11	0.064	0.228	0.456	-0.456
12	0.031	0.228	0.457	-0.457
13	0.038	0.228	0.457	-0.457
14	0.082	0.228	0.457	-0.457
15	0.107	0.229	0.457	-0.457

West Wall Trends Appendix - Display 2430

Correlogram for Surface Salinity in West Wall
Adjusted for Seasonal Median and Detrended

Correlation



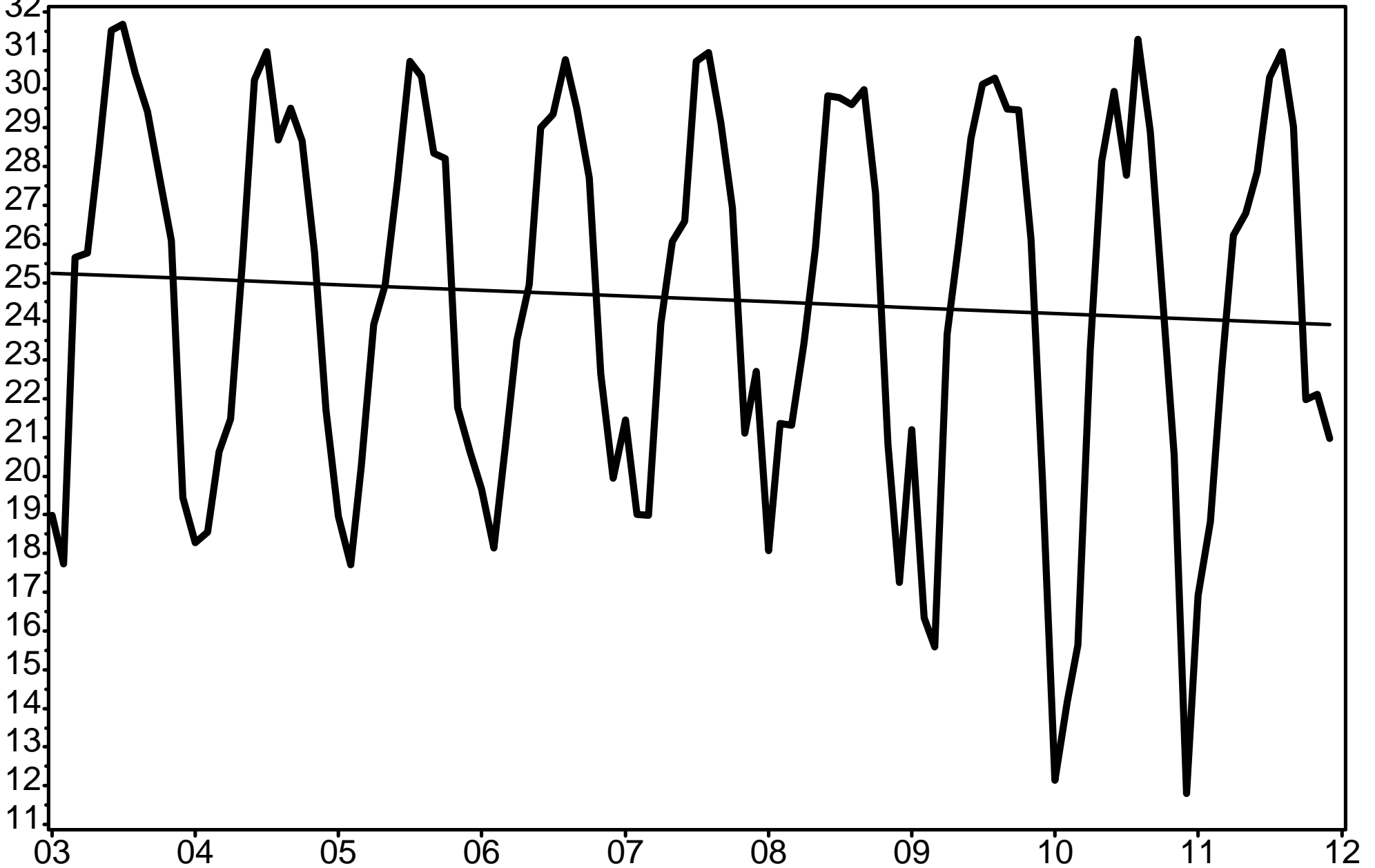
Lagged Salinity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2431

Monthly Data Time Series
for Surface Temperature in West Wall
Not Adjusted for Seasonal Medians

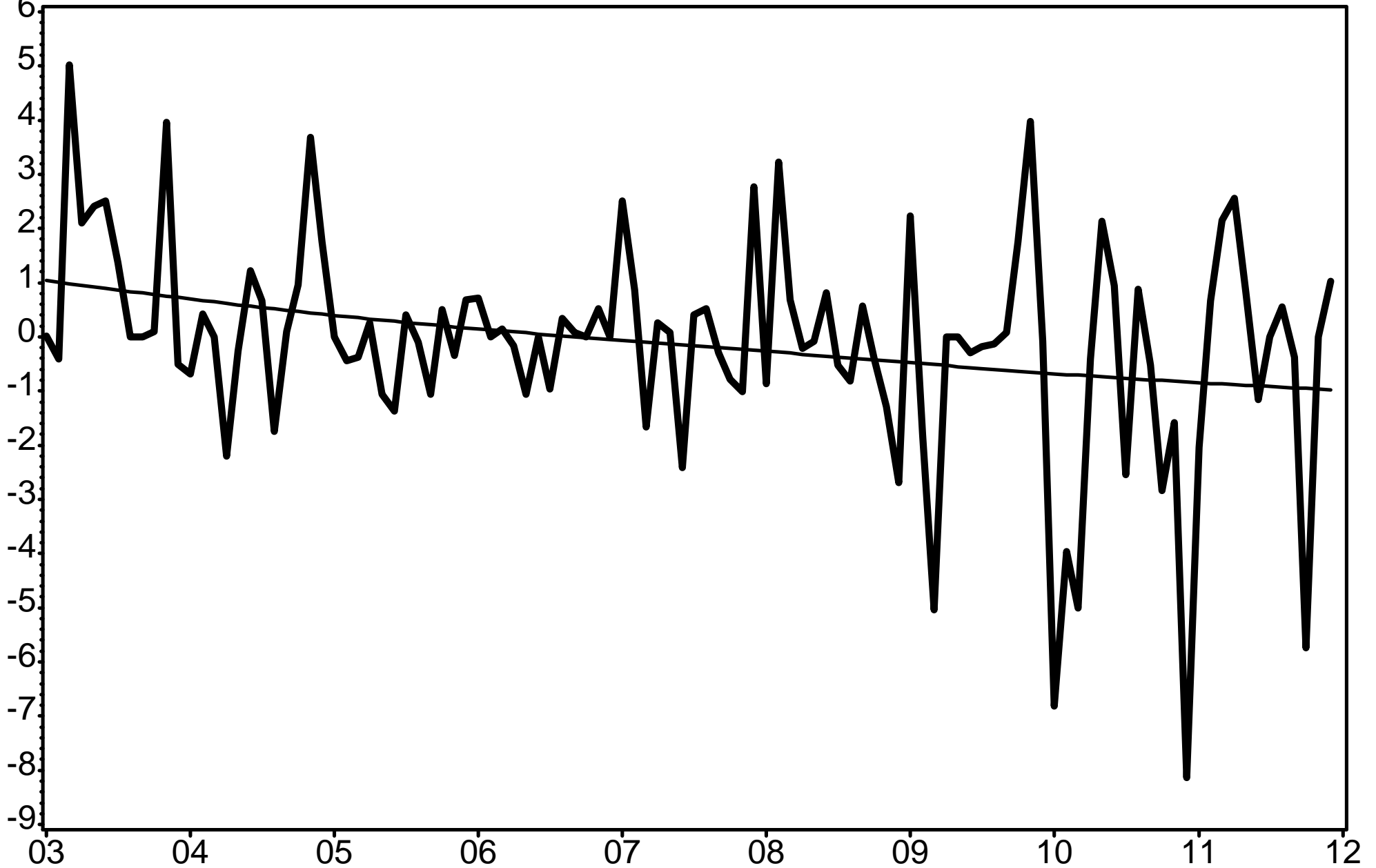
TEMP_C
(Degree C)



West Wall Trends Appendix - Display 2432

Monthly Data Time Series
for Surface Temperature in West Wall
Adjusted for Seasonal Medians

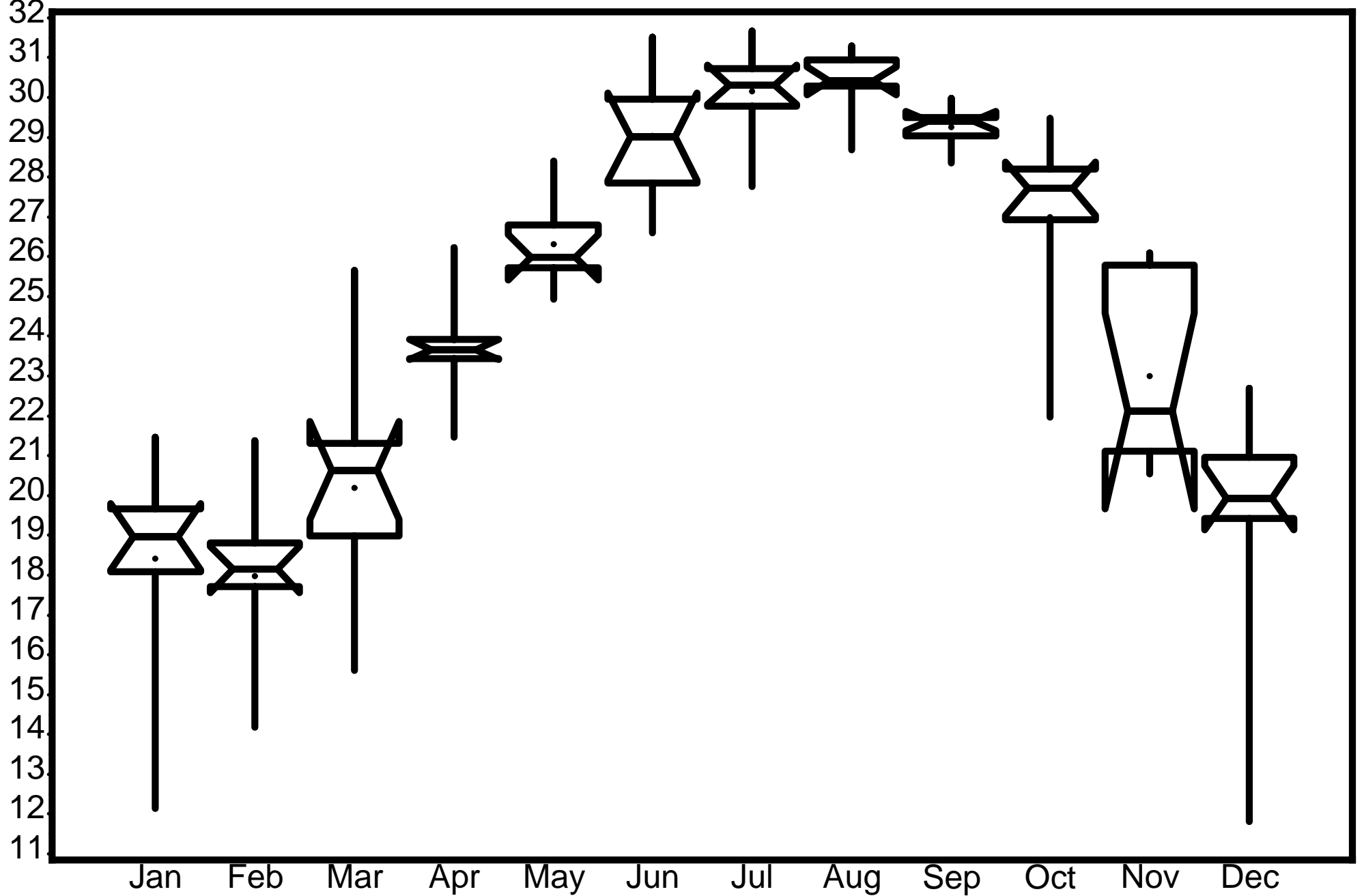
Adjusted
TEMP_C
(Degree C)



West Wall Trends Appendix - Display 2433

Seasonal Univariate Statistics
for Surface Temperature in West Wall

TEMP_C
(Degree C)



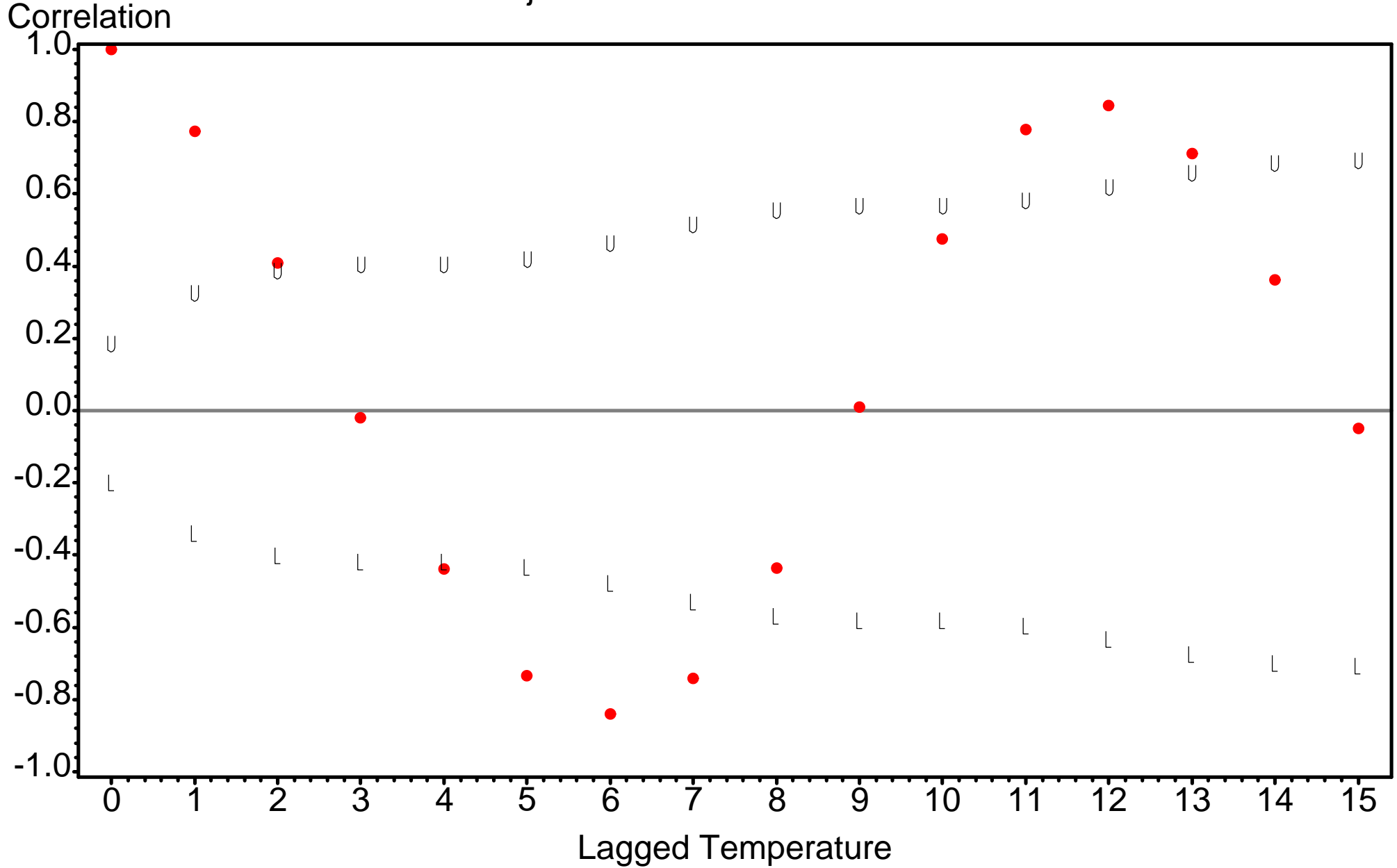
West Wall Trends Appendix - Display 2434
Autocorrelation Statistics for Surface Temperature in West Wall

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.774	0.167	0.333	-0.333
2	0.408	0.197	0.394	-0.394
3	-0.020	0.205	0.410	-0.410
4	-0.437	0.205	0.410	-0.410
5	-0.734	0.213	0.427	-0.427
6	-0.839	0.236	0.471	-0.471
7	-0.740	0.262	0.523	-0.523
8	-0.435	0.280	0.561	-0.561
9	0.010	0.287	0.573	-0.573
10	0.476	0.287	0.573	-0.573
11	0.778	0.294	0.588	-0.588
12	0.844	0.312	0.625	-0.625
13	0.711	0.333	0.666	-0.666
14	0.361	0.347	0.693	-0.693
15	-0.050	0.350	0.700	-0.700

West Wall Trends Appendix - Display 2435

Correlogram for Surface Temperature in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2436
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.027	0.677	0.677	-0.086

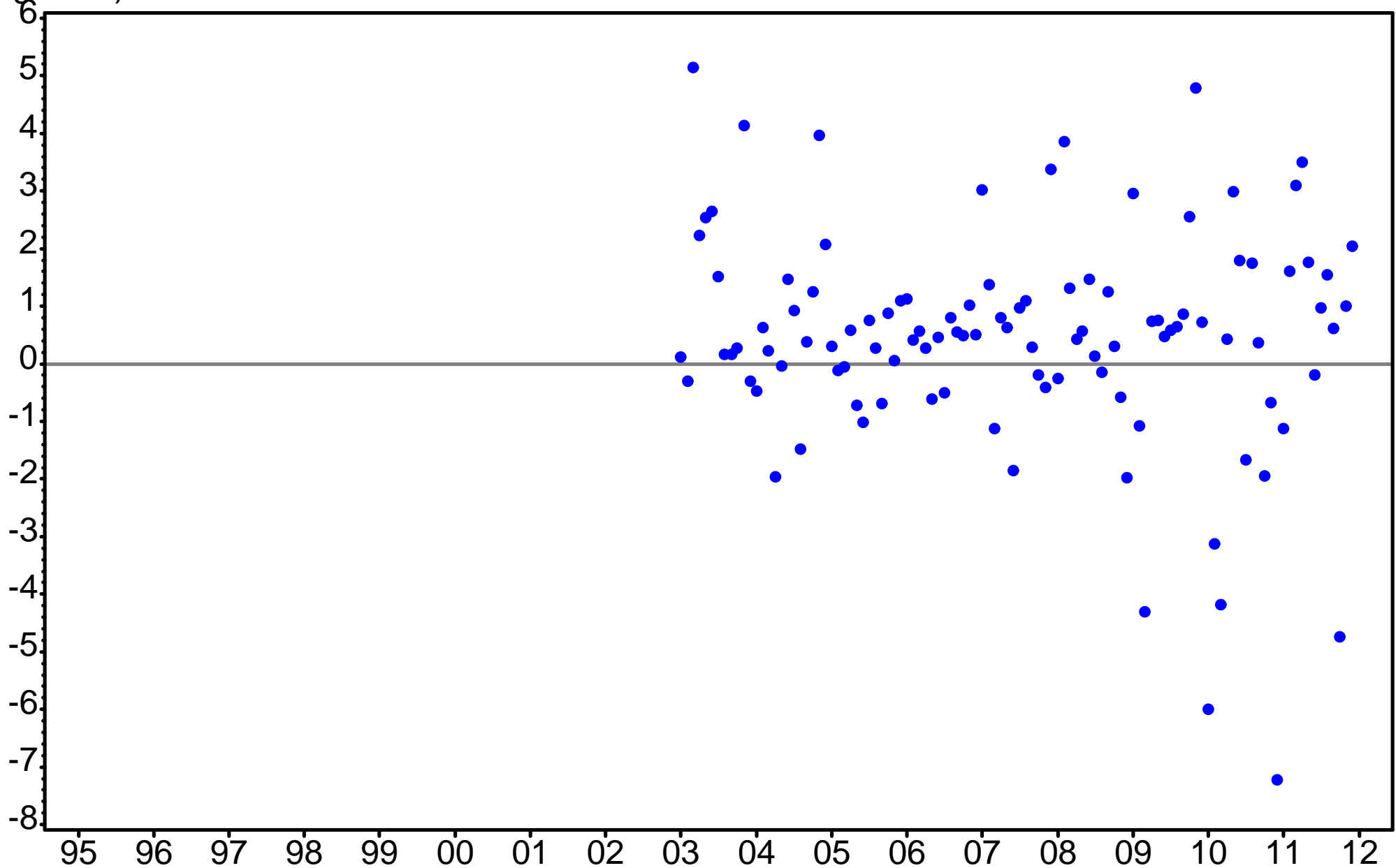
West Wall Trends Appendix - Display 2437
Seasonal Kendall Tau Trend Test Statistics
for Surface Temperature in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.14352	0.066375	0.16050	-0.10238

West Wall Trends Appendix - Display 2438

Time Series Plot of Surface Temperature Data Adjusted for Season and Detrended
West Wall

Adjusted
(Degree C)



Zero Reference Line Shown

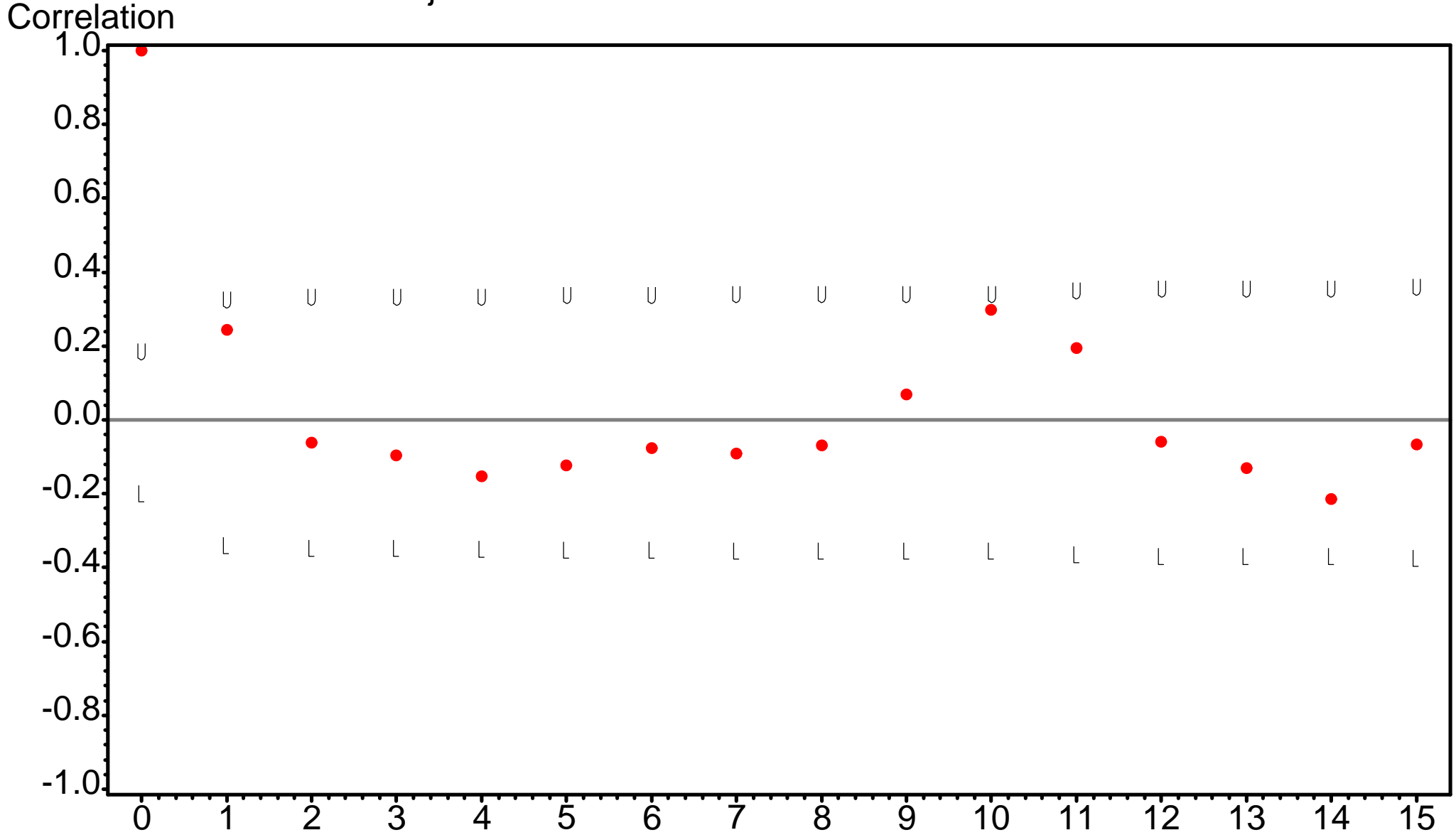
West Wall Trends Appendix - Display 2439
Autocorrelation Statistics for Surface Temperature in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Temperature	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.244	0.167	0.333	-0.333
2	-0.062	0.170	0.340	-0.340
3	-0.096	0.170	0.340	-0.340
4	-0.153	0.171	0.341	-0.341
5	-0.123	0.172	0.344	-0.344
6	-0.077	0.173	0.345	-0.345
7	-0.090	0.173	0.346	-0.346
8	-0.068	0.173	0.347	-0.347
9	0.068	0.174	0.347	-0.347
10	0.297	0.174	0.348	-0.348
11	0.194	0.179	0.357	-0.357
12	-0.060	0.181	0.361	-0.361
13	-0.130	0.181	0.361	-0.361
14	-0.213	0.182	0.363	-0.363
15	-0.067	0.184	0.368	-0.368

West Wall Trends Appendix - Display 2440

Correlogram for Surface Temperature in West Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

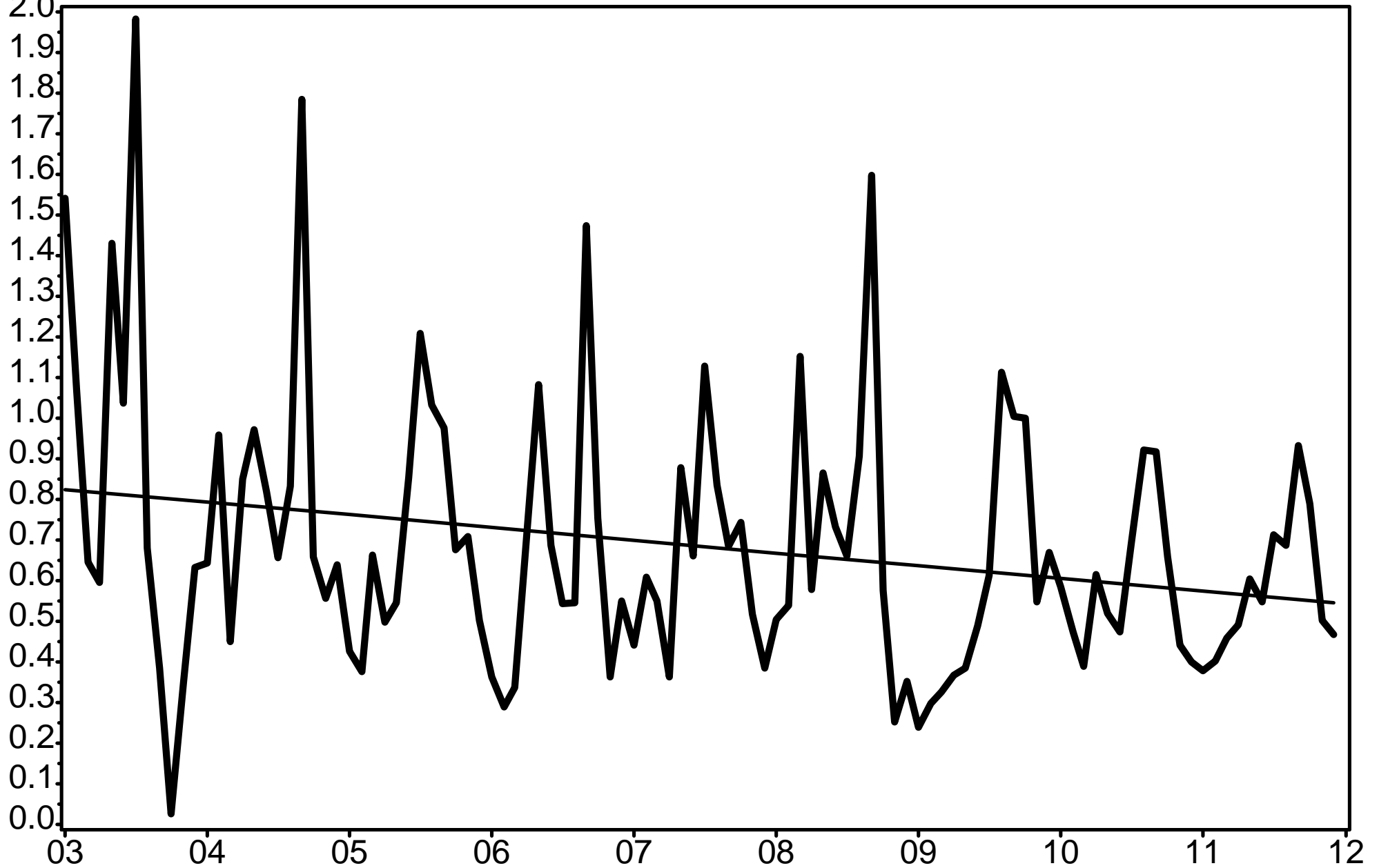
West Wall Trends Appendix - Display 2441

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in West Wall

Not Adjusted for Seasonal Medians

TKN_mgl
(mg/l)



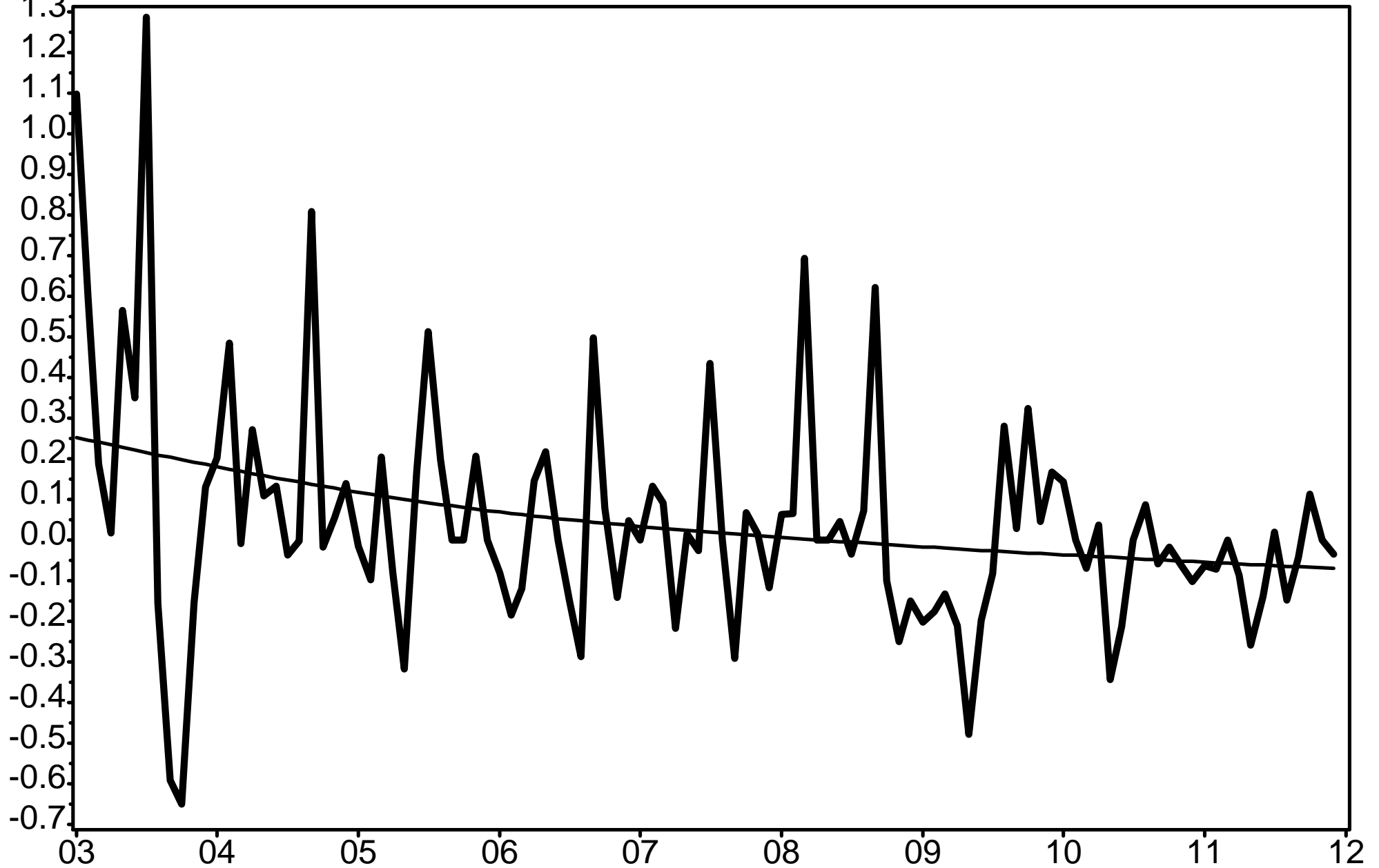
West Wall Trends Appendix - Display 2442

Monthly Data Time Series

for Surface Total Kjeldahl Nitrogen in West Wall

Adjusted for Seasonal Medians

Adjusted
TKN_mgl
(mg/l)

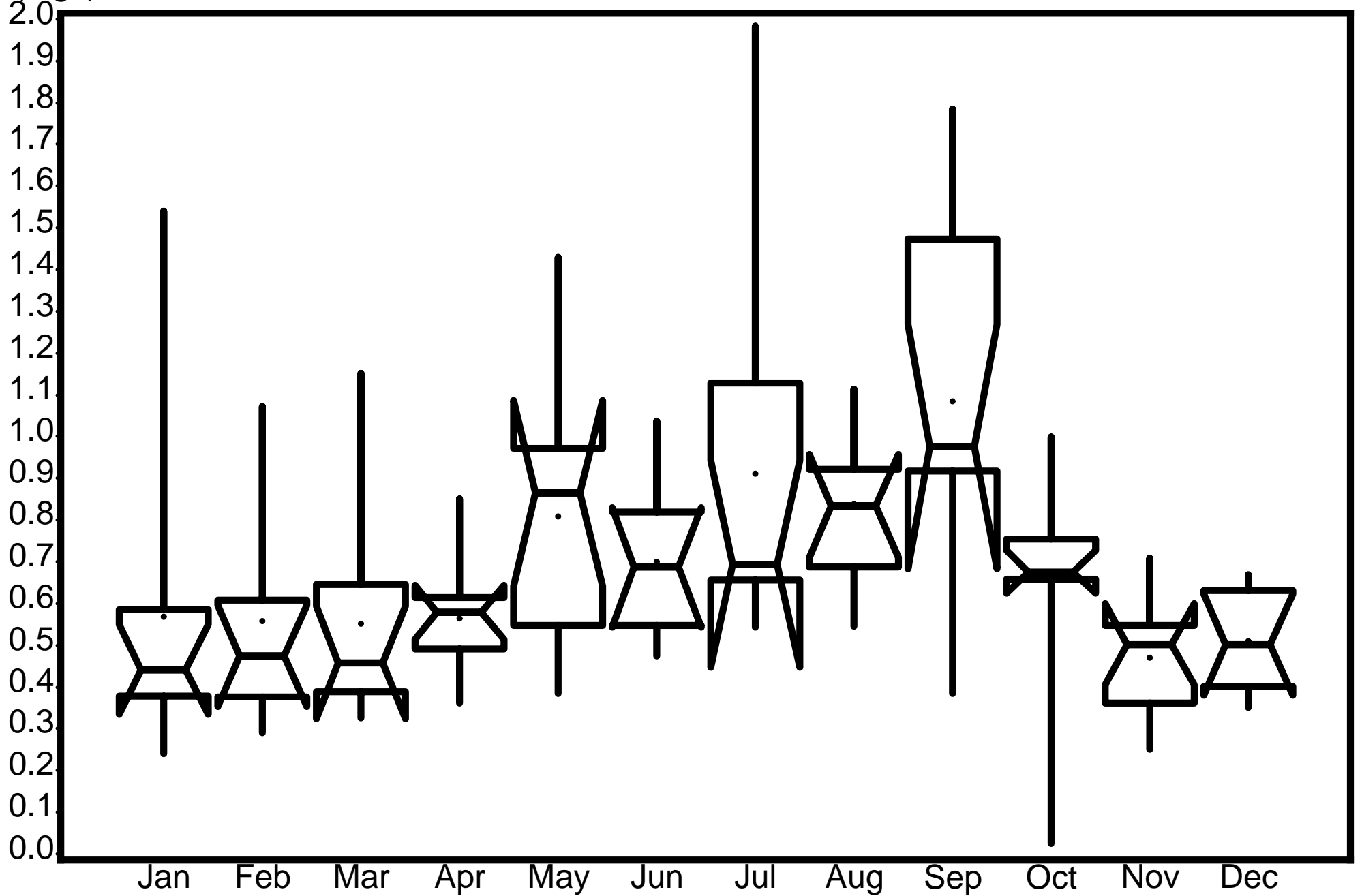


West Wall Trends Appendix - Display 2443

Seasonal Univariate Statistics

for Surface Total Kjeldahl Nitrogen in West Wall

TKN_mgl
(mg/l)



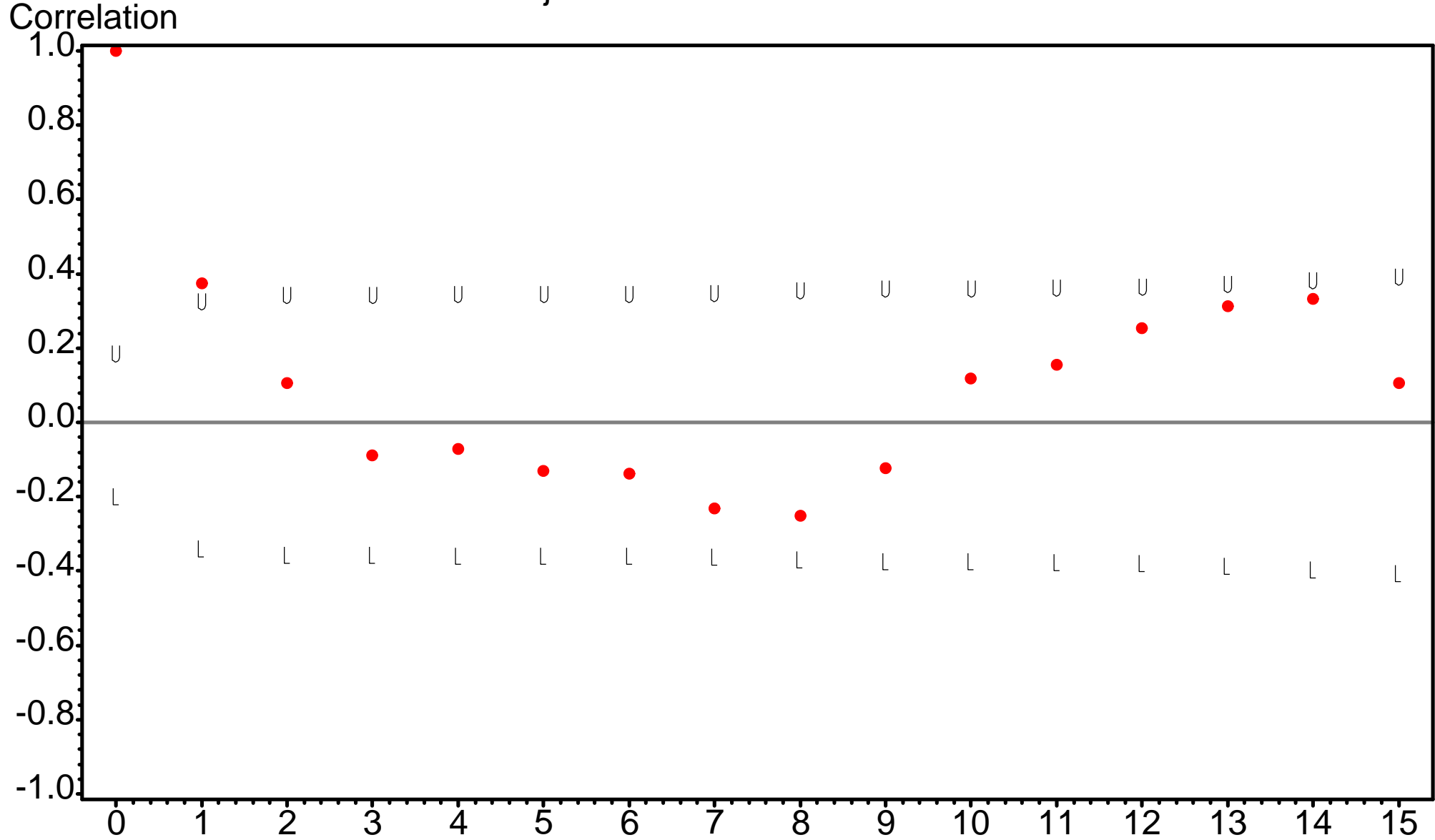
West Wall Trends Appendix - Display 2444
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in West Wall

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.375	0.167	0.333	-0.333
2	0.107	0.174	0.349	-0.349
3	-0.089	0.175	0.350	-0.350
4	-0.072	0.175	0.351	-0.351
5	-0.130	0.176	0.351	-0.351
6	-0.139	0.177	0.353	-0.353
7	-0.232	0.178	0.355	-0.355
8	-0.250	0.180	0.361	-0.361
9	-0.122	0.183	0.367	-0.367
10	0.117	0.184	0.368	-0.368
11	0.154	0.185	0.370	-0.370
12	0.253	0.186	0.372	-0.372
13	0.312	0.189	0.379	-0.379
14	0.333	0.194	0.388	-0.388
15	0.105	0.199	0.398	-0.398

West Wall Trends Appendix - Display 2445

Correlogram for Surface Total Kjeldahl Nitrogen in West Wall

Unadjusted for Seasonal Median



Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2446
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.13	0.046	0.046	-0.021

West Wall Trends Appendix - Display 2447
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Kjeldahl Nitrogen in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.19213	0.013548	0.025868	-0.027167

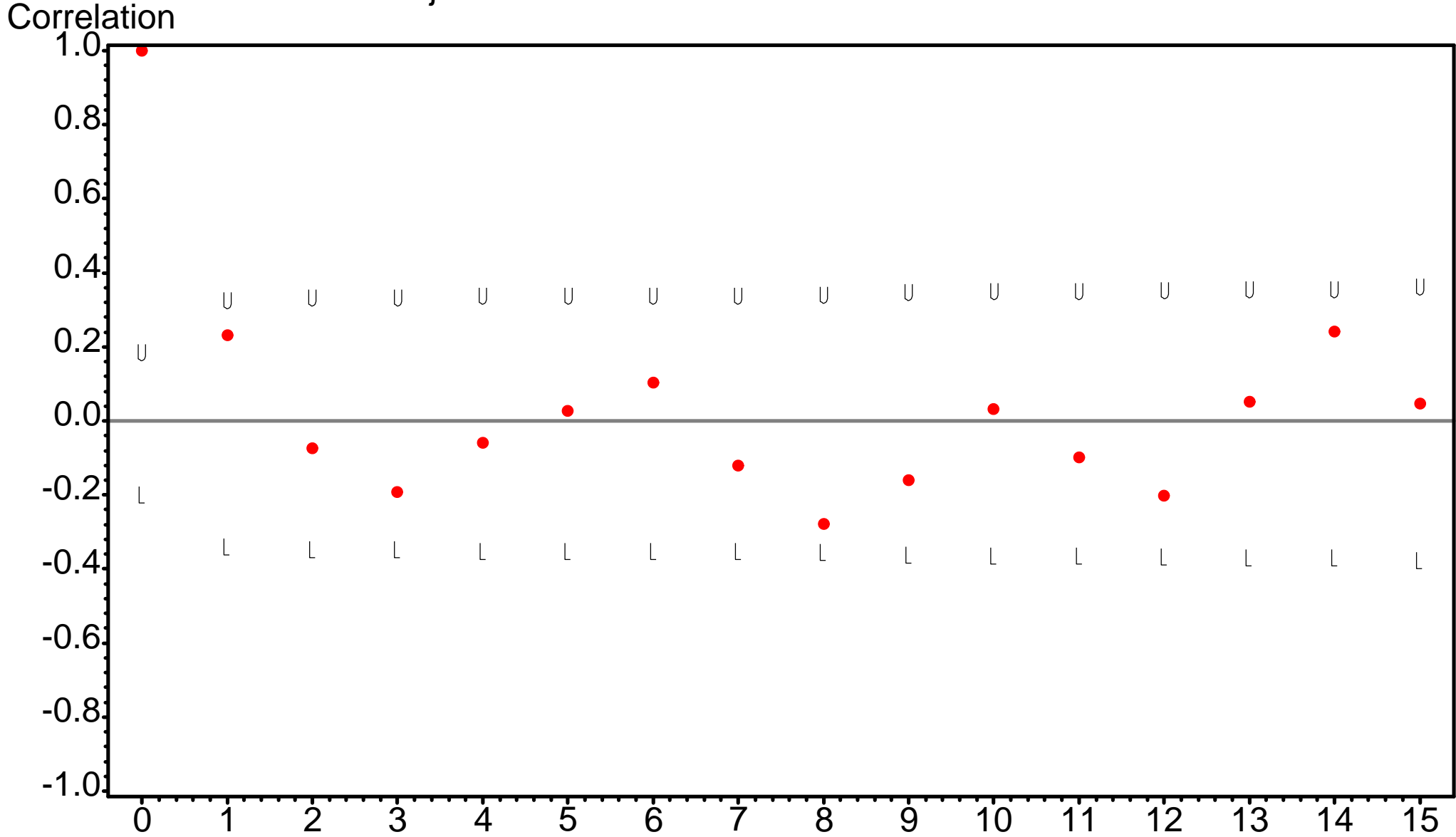
West Wall Trends Appendix - Display 2449
Autocorrelation Statistics for Surface Total Kjeldahl Nitrogen in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Kjeldahl Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.231	0.167	0.333	-0.333
2	-0.075	0.170	0.339	-0.339
3	-0.191	0.170	0.340	-0.340
4	-0.059	0.172	0.344	-0.344
5	0.027	0.172	0.344	-0.344
6	0.103	0.172	0.344	-0.344
7	-0.121	0.173	0.345	-0.345
8	-0.278	0.173	0.347	-0.347
9	-0.159	0.178	0.355	-0.355
10	0.032	0.179	0.358	-0.358
11	-0.098	0.179	0.358	-0.358
12	-0.201	0.179	0.359	-0.359
13	0.051	0.181	0.363	-0.363
14	0.242	0.182	0.363	-0.363
15	0.048	0.185	0.369	-0.369

West Wall Trends Appendix - Display 2450

Correlogram for Surface Total Kjeldahl Nitrogen in West Wall

Adjusted for Seasonal Median and Detrended



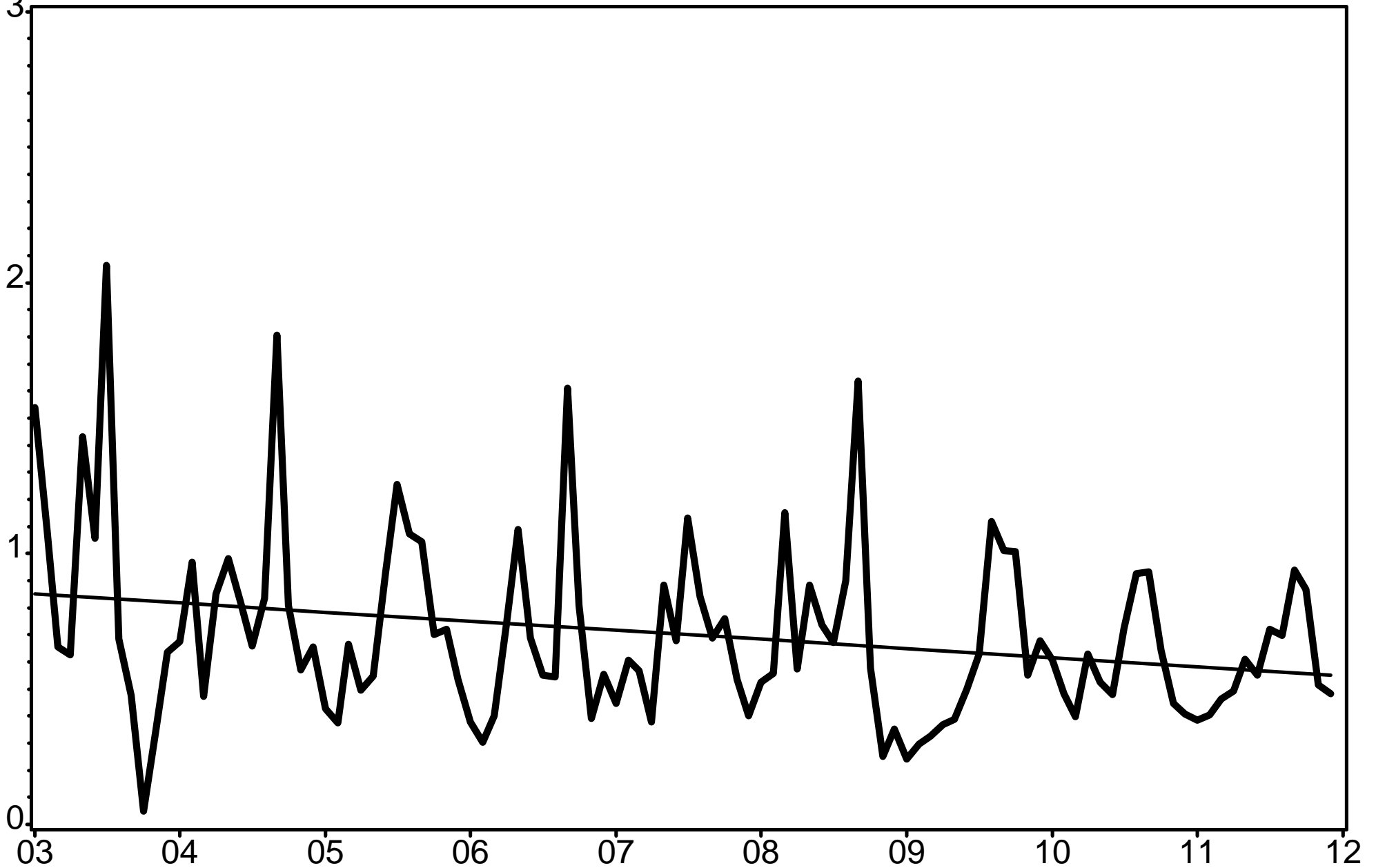
Lagged Total Kjeldahl Nitrogen

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2451

Monthly Data Time Series
for Surface Total Nitrogen in West Wall
Not Adjusted for Seasonal Medians

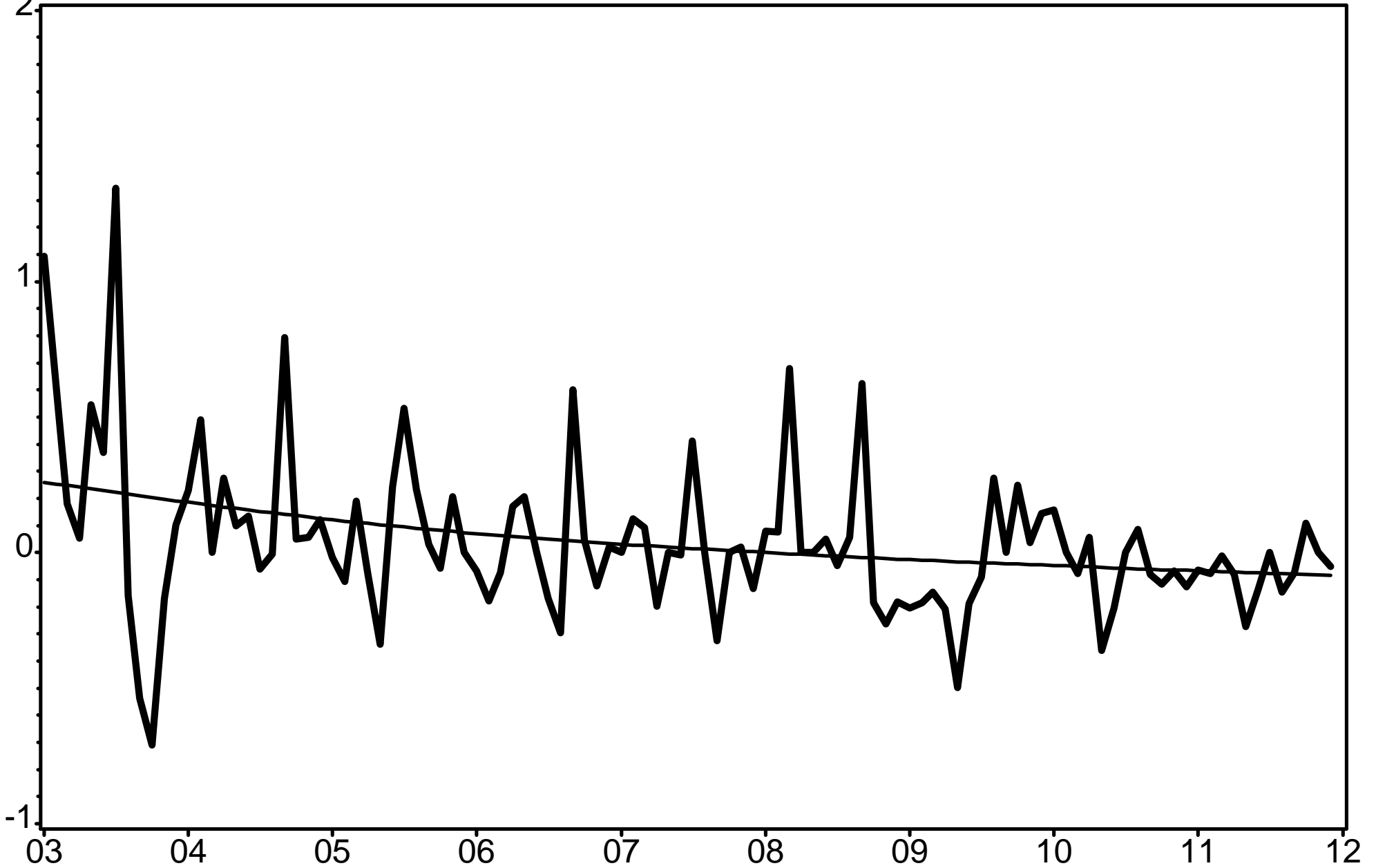
TN_mgl
(mg/l)



West Wall Trends Appendix - Display 2452

Monthly Data Time Series
for Surface Total Nitrogen in West Wall
Adjusted for Seasonal Medians

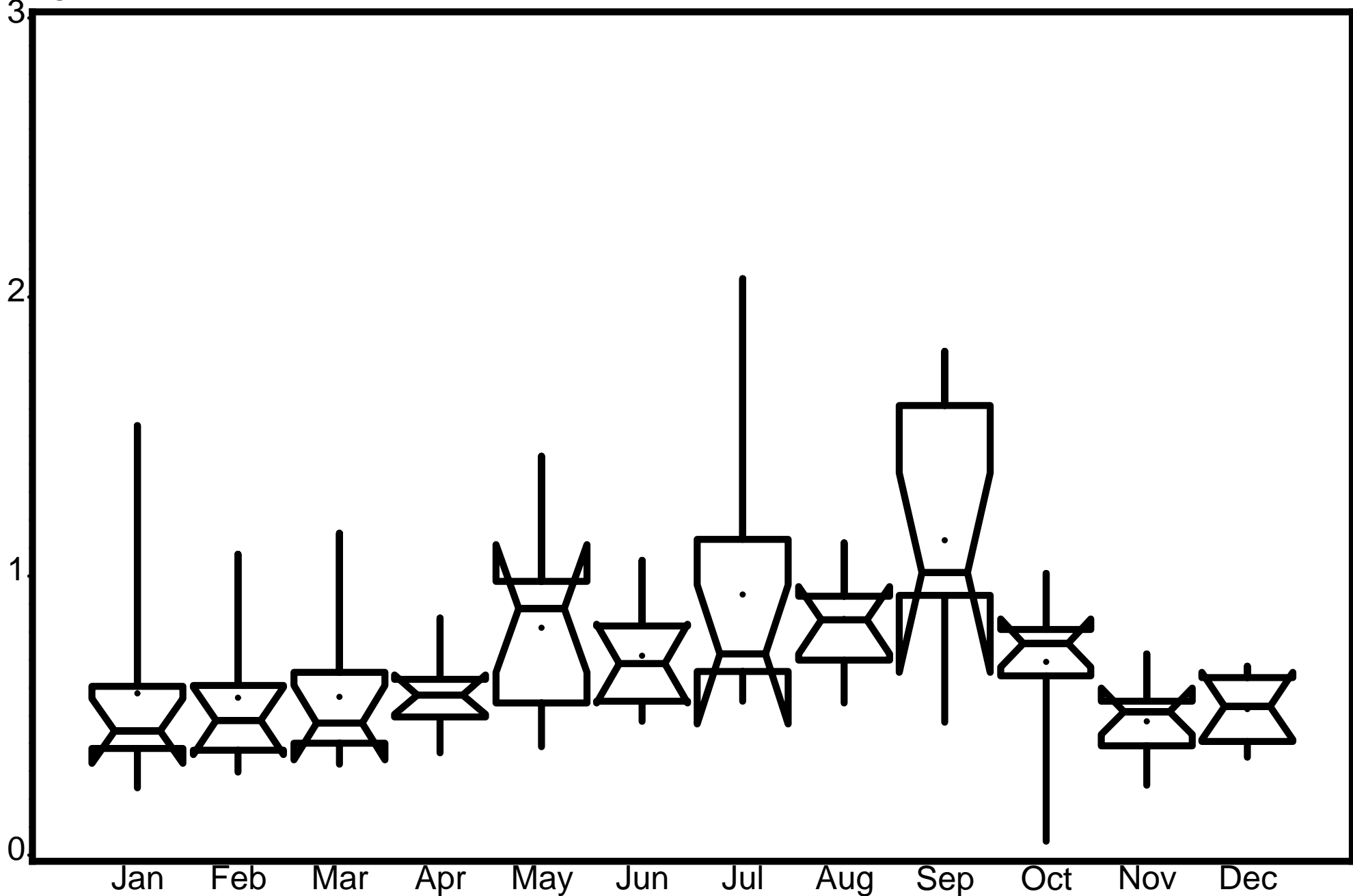
Adjusted
TN_mgl
(mg/l)



West Wall Trends Appendix - Display 2453

Seasonal Univariate Statistics
for Surface Total Nitrogen in West Wall

TN_mgl
(mg/l)



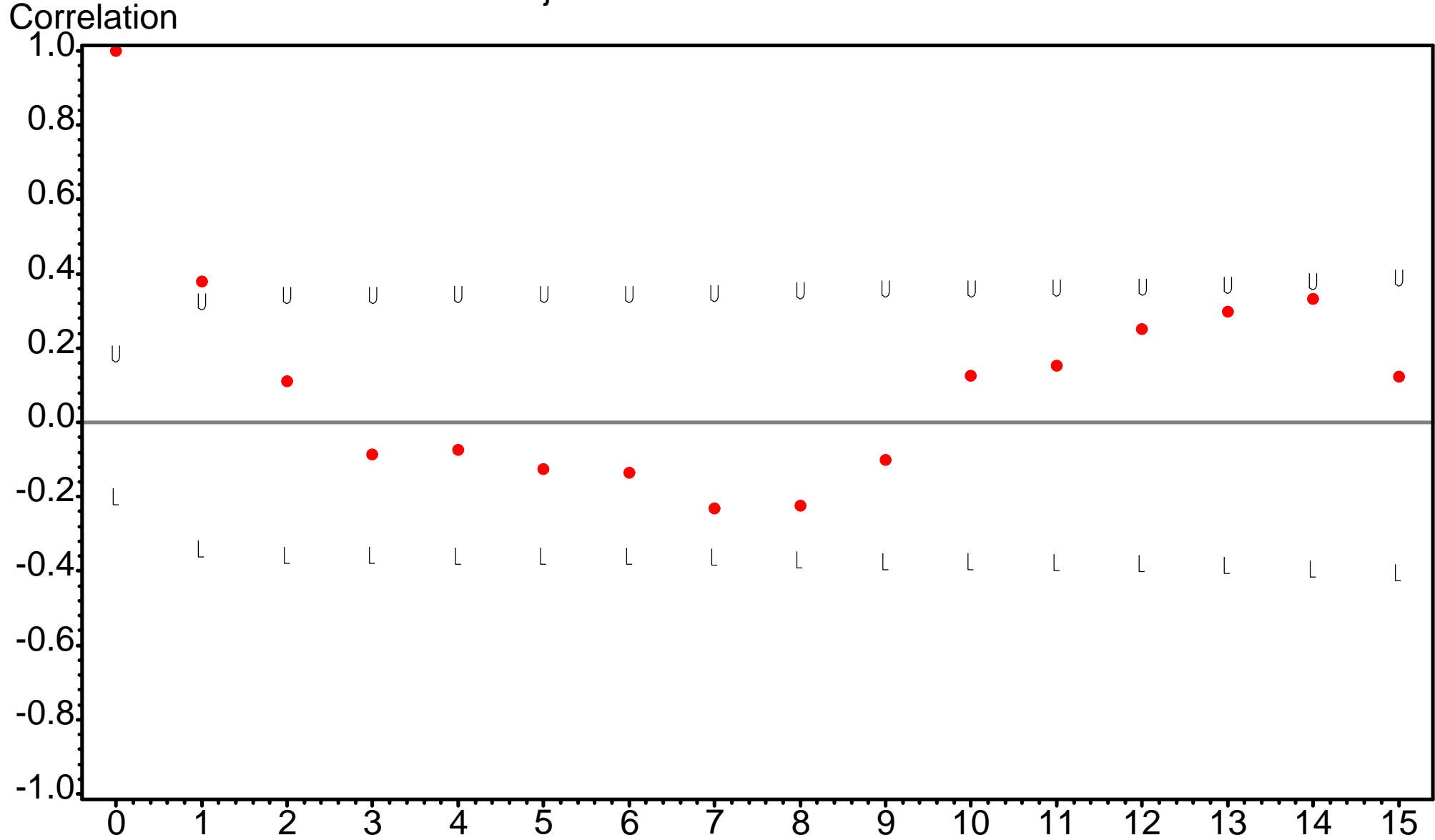
West Wall Trends Appendix - Display 2454
Autocorrelation Statistics for Surface Total Nitrogen in West Wall

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.379	0.167	0.333	-0.333
2	0.112	0.174	0.349	-0.349
3	-0.087	0.175	0.350	-0.350
4	-0.073	0.176	0.351	-0.351
5	-0.126	0.176	0.352	-0.352
6	-0.135	0.177	0.353	-0.353
7	-0.232	0.178	0.355	-0.355
8	-0.224	0.180	0.361	-0.361
9	-0.101	0.183	0.366	-0.366
10	0.126	0.183	0.367	-0.367
11	0.152	0.184	0.369	-0.369
12	0.251	0.185	0.371	-0.371
13	0.299	0.189	0.377	-0.377
14	0.332	0.193	0.386	-0.386
15	0.122	0.198	0.396	-0.396

West Wall Trends Appendix - Display 2455

Correlogram for Surface Total Nitrogen in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2456
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.144	0.027	0.027	-0.022

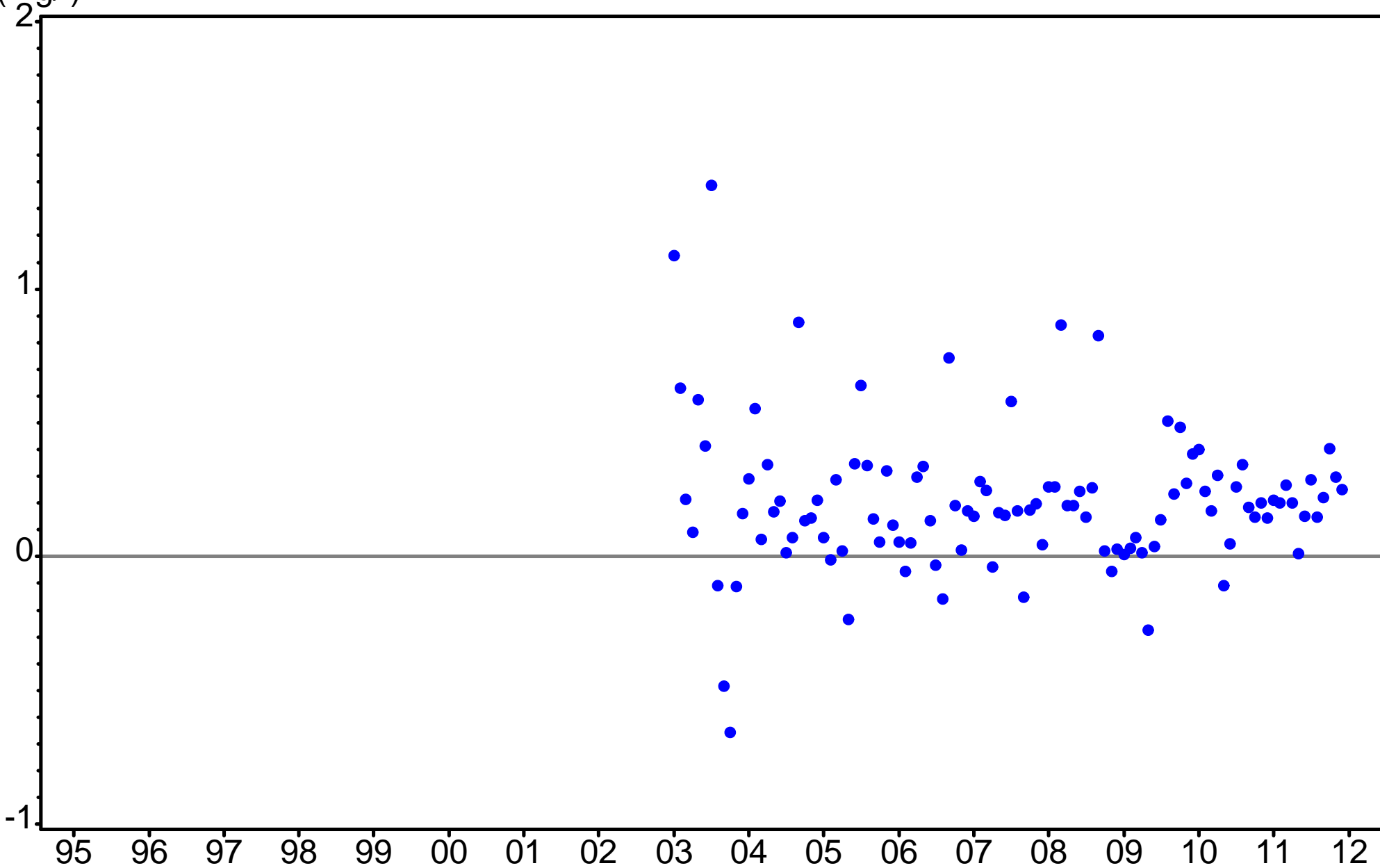
West Wall Trends Appendix - Display 2457
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Nitrogen in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.23611	.00236766	0.016264	-0.030325

West Wall Trends Appendix - Display 2458

Time Series Plot of Surface Total Nitrogen Data Adjusted for Season and Detrended
West Wall

Adjusted
(mg/l)



Zero Reference Line Shown

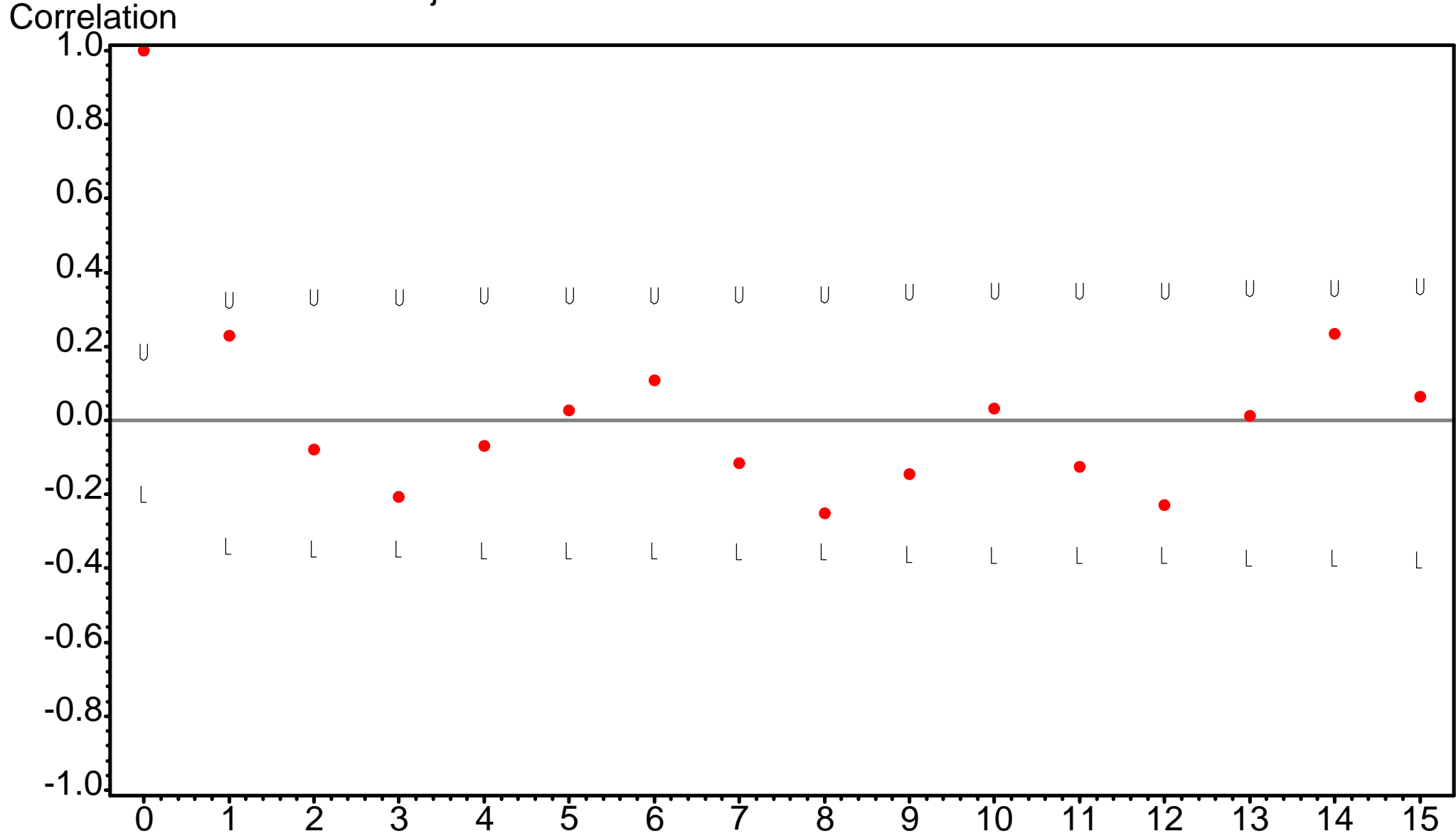
West Wall Trends Appendix - Display 2459
Autocorrelation Statistics for Surface Total Nitrogen in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Nitrogen	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.229	0.167	0.333	-0.333
2	-0.079	0.170	0.339	-0.339
3	-0.206	0.170	0.340	-0.340
4	-0.069	0.172	0.344	-0.344
5	0.027	0.172	0.345	-0.345
6	0.108	0.173	0.345	-0.345
7	-0.116	0.173	0.346	-0.346
8	-0.252	0.174	0.348	-0.348
9	-0.144	0.177	0.354	-0.354
10	0.032	0.178	0.357	-0.357
11	-0.125	0.178	0.357	-0.357
12	-0.228	0.179	0.358	-0.358
13	0.013	0.182	0.364	-0.364
14	0.235	0.182	0.364	-0.364
15	0.063	0.185	0.369	-0.369

West Wall Trends Appendix - Display 2460

Correlogram for Surface Total Nitrogen in West Wall

Adjusted for Seasonal Median and Detrended



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

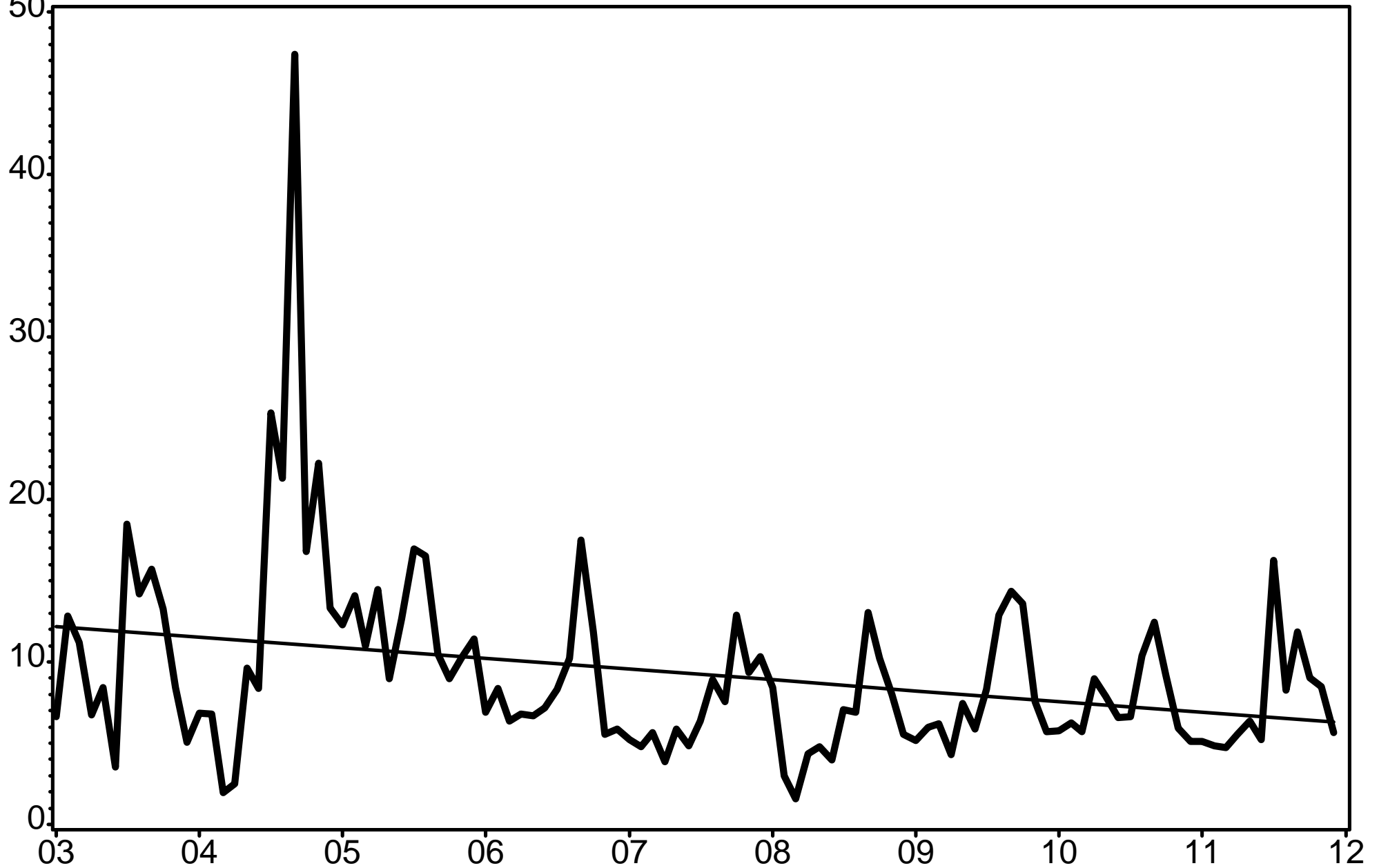
West Wall Trends Appendix - Display 2461

Monthly Data Time Series

for Surface Total Organic Carbon in West Wall

Not Adjusted for Seasonal Medians

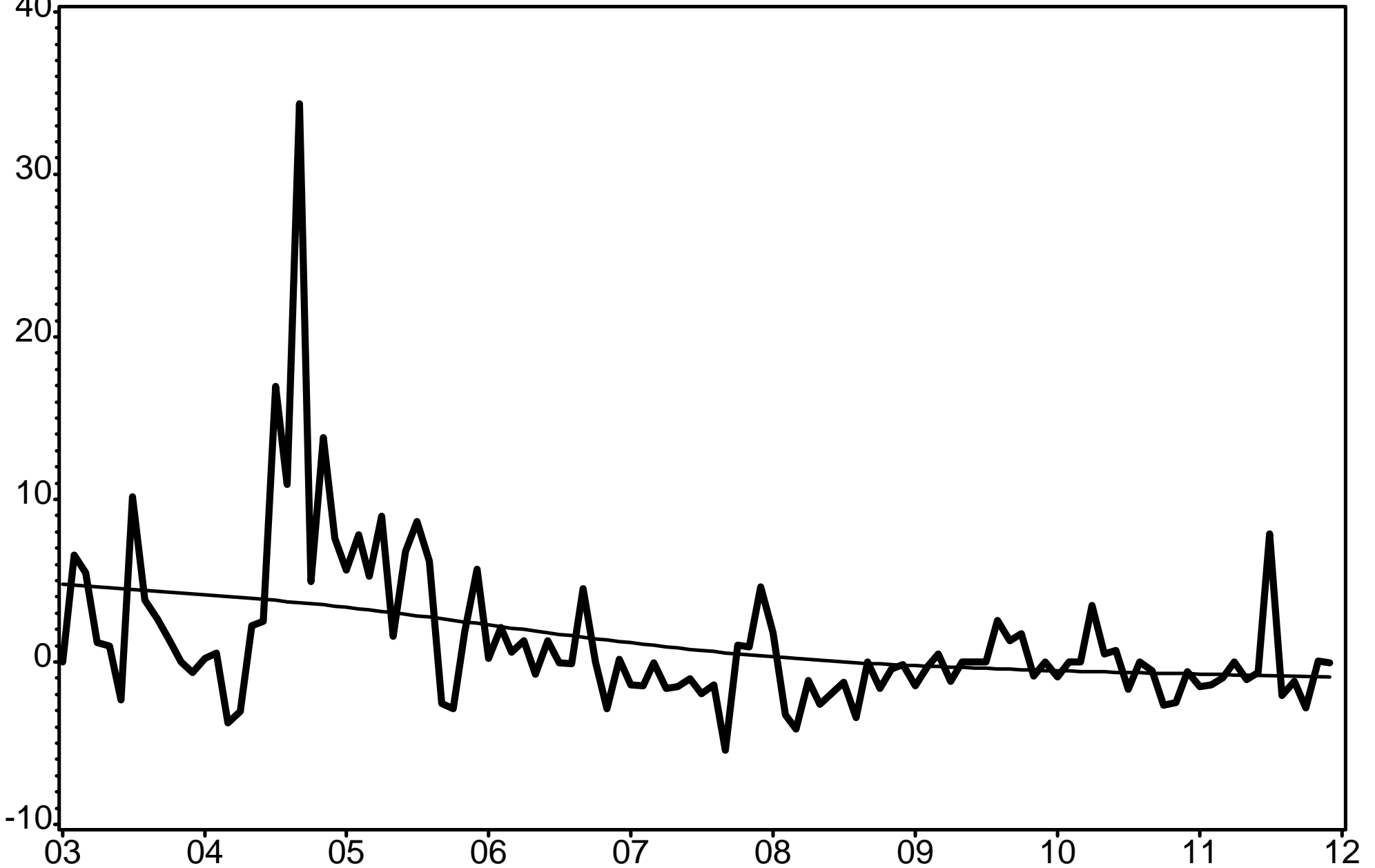
TOC_mgl
(mg/l)



West Wall Trends Appendix - Display 2462

Monthly Data Time Series
for Surface Total Organic Carbon in West Wall
Adjusted for Seasonal Medians

Adjusted
TOC_mgl
(mg/l)

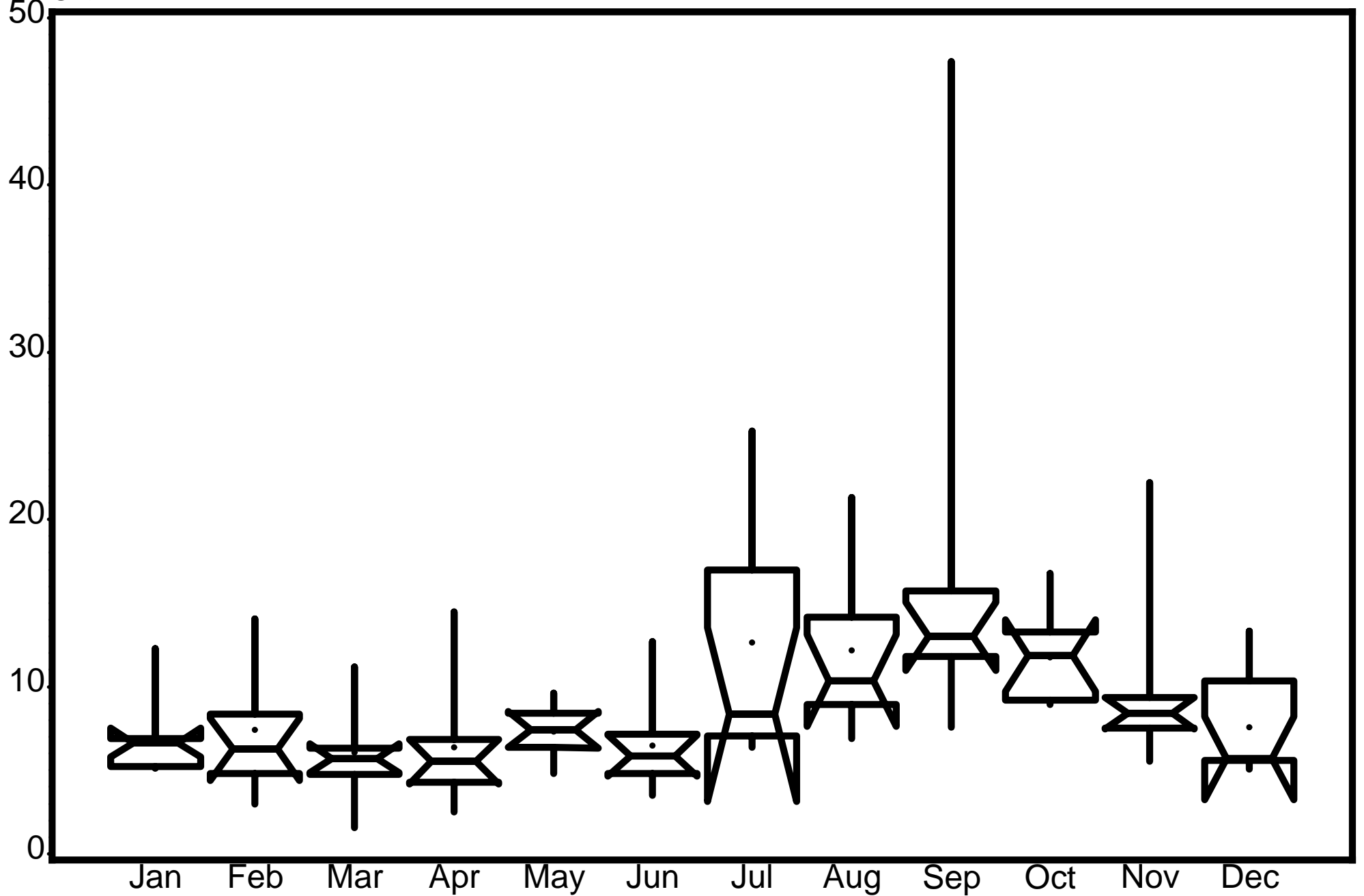


West Wall Trends Appendix - Display 2463

Seasonal Univariate Statistics

for Surface Total Organic Carbon in West Wall

TOC_mgl
(mg/l)
50



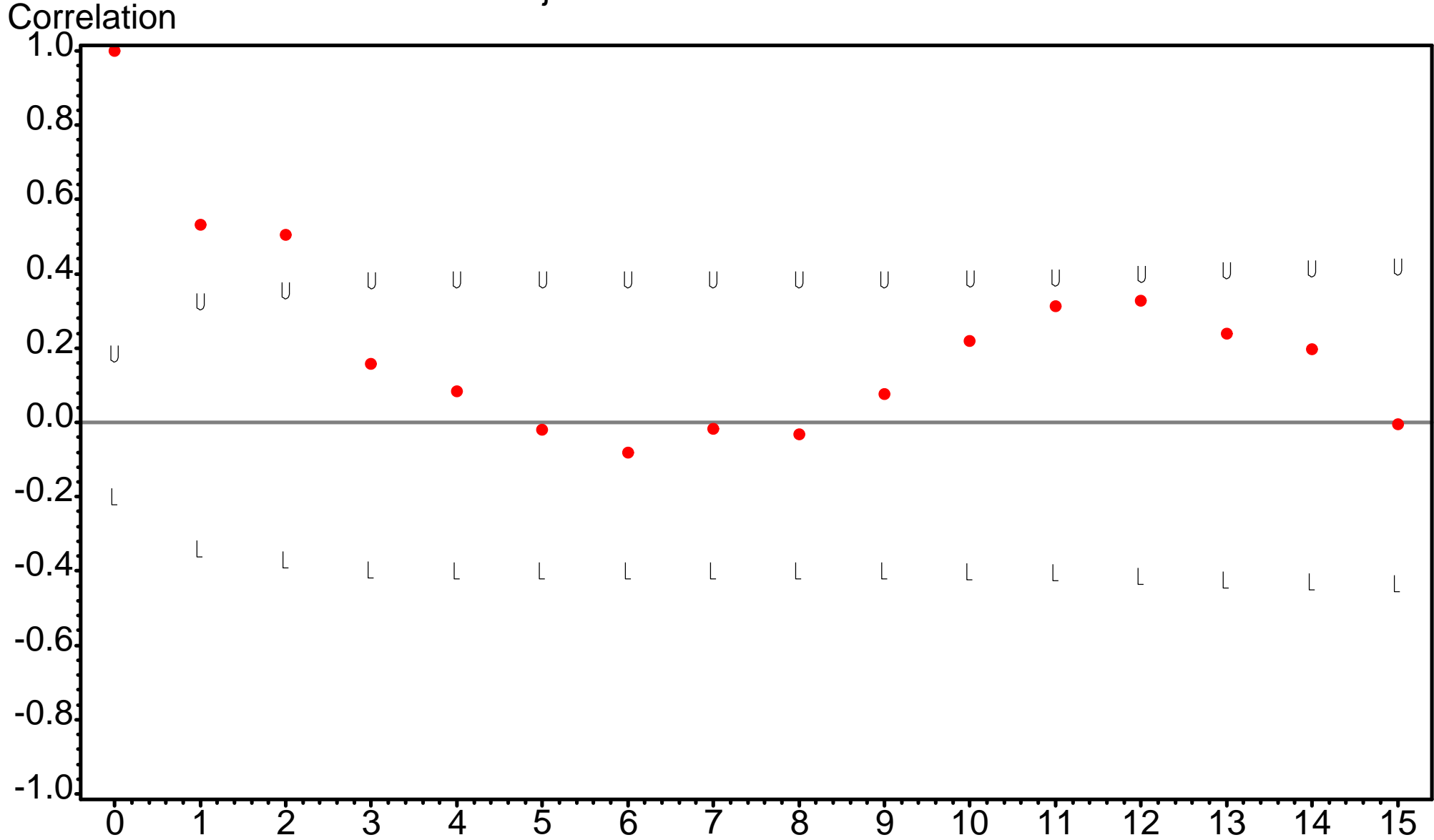
West Wall Trends Appendix - Display 2464
 Autocorrelation Statistics for Surface Total Organic Carbon in West Wall

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.533	0.167	0.333	-0.333
2	0.505	0.182	0.363	-0.363
3	0.157	0.194	0.389	-0.389
4	0.083	0.195	0.391	-0.391
5	-0.019	0.196	0.392	-0.392
6	-0.080	0.196	0.392	-0.392
7	-0.018	0.196	0.392	-0.392
8	-0.033	0.196	0.392	-0.392
9	0.076	0.196	0.392	-0.392
10	0.219	0.196	0.393	-0.393
11	0.313	0.199	0.397	-0.397
12	0.328	0.203	0.406	-0.406
13	0.238	0.208	0.416	-0.416
14	0.196	0.211	0.421	-0.421
15	-0.004	0.212	0.425	-0.425

West Wall Trends Appendix - Display 2465

Correlogram for Surface Total Organic Carbon in West Wall

Unadjusted for Seasonal Median



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2466
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.207	.001	.001	-0.446

West Wall Trends Appendix - Display 2467
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Organic Carbon in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.32407	.000028907	0.032186	-0.48169

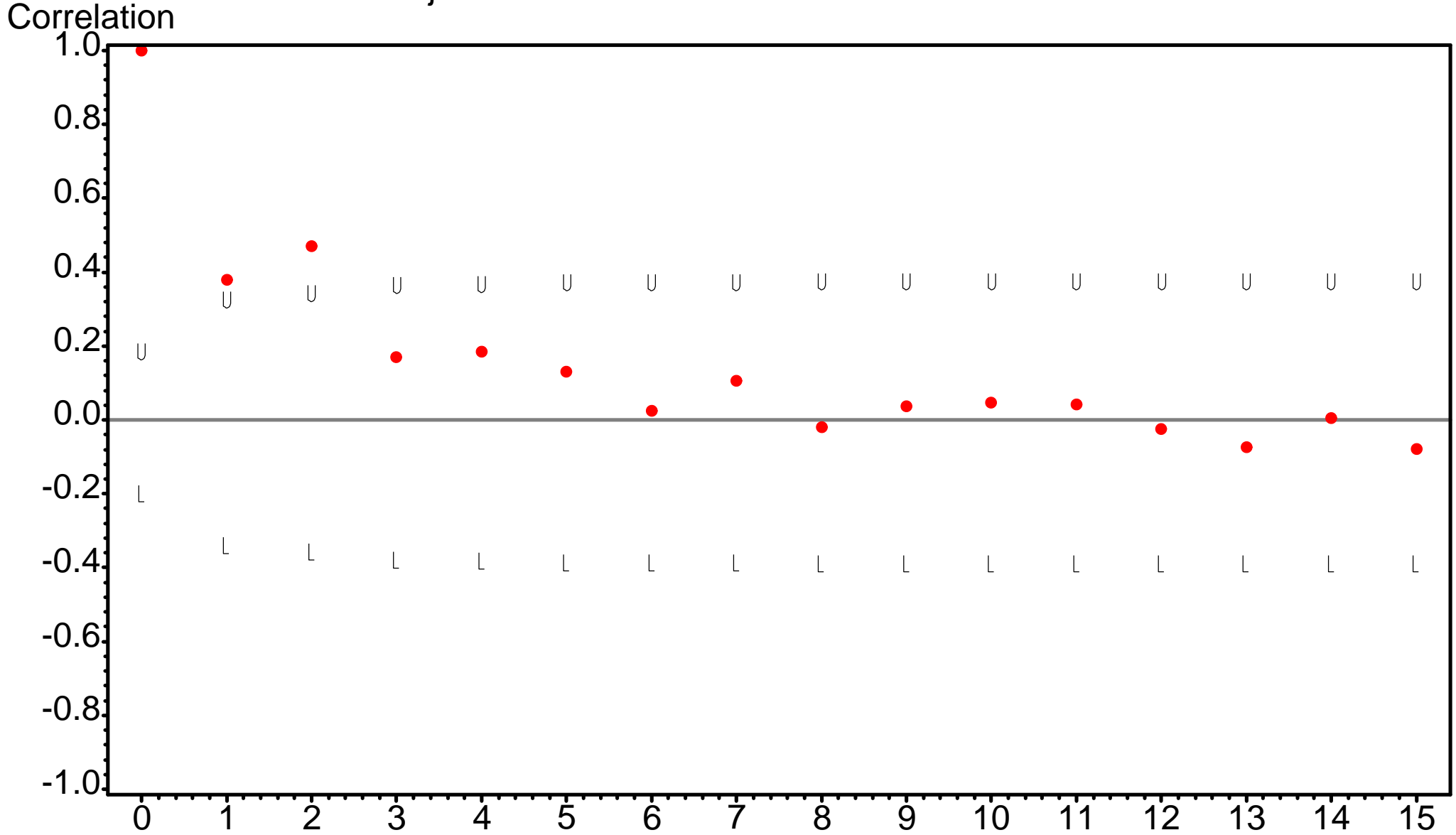
West Wall Trends Appendix - Display 2469
Autocorrelation Statistics for Surface Total Organic Carbon in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Organic Carbon	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.380	0.167	0.333	-0.333
2	0.471	0.174	0.349	-0.349
3	0.170	0.186	0.372	-0.372
4	0.185	0.187	0.375	-0.375
5	0.130	0.189	0.378	-0.378
6	0.024	0.190	0.380	-0.380
7	0.106	0.190	0.380	-0.380
8	-0.020	0.190	0.381	-0.381
9	0.038	0.190	0.381	-0.381
10	0.046	0.190	0.381	-0.381
11	0.043	0.191	0.381	-0.381
12	-0.025	0.191	0.381	-0.381
13	-0.074	0.191	0.381	-0.381
14	0.005	0.191	0.382	-0.382
15	-0.079	0.191	0.382	-0.382

West Wall Trends Appendix - Display 2470

Correlogram for Surface Total Organic Carbon in West Wall

Adjusted for Seasonal Median and Detrended



Lagged Total Organic Carbon

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

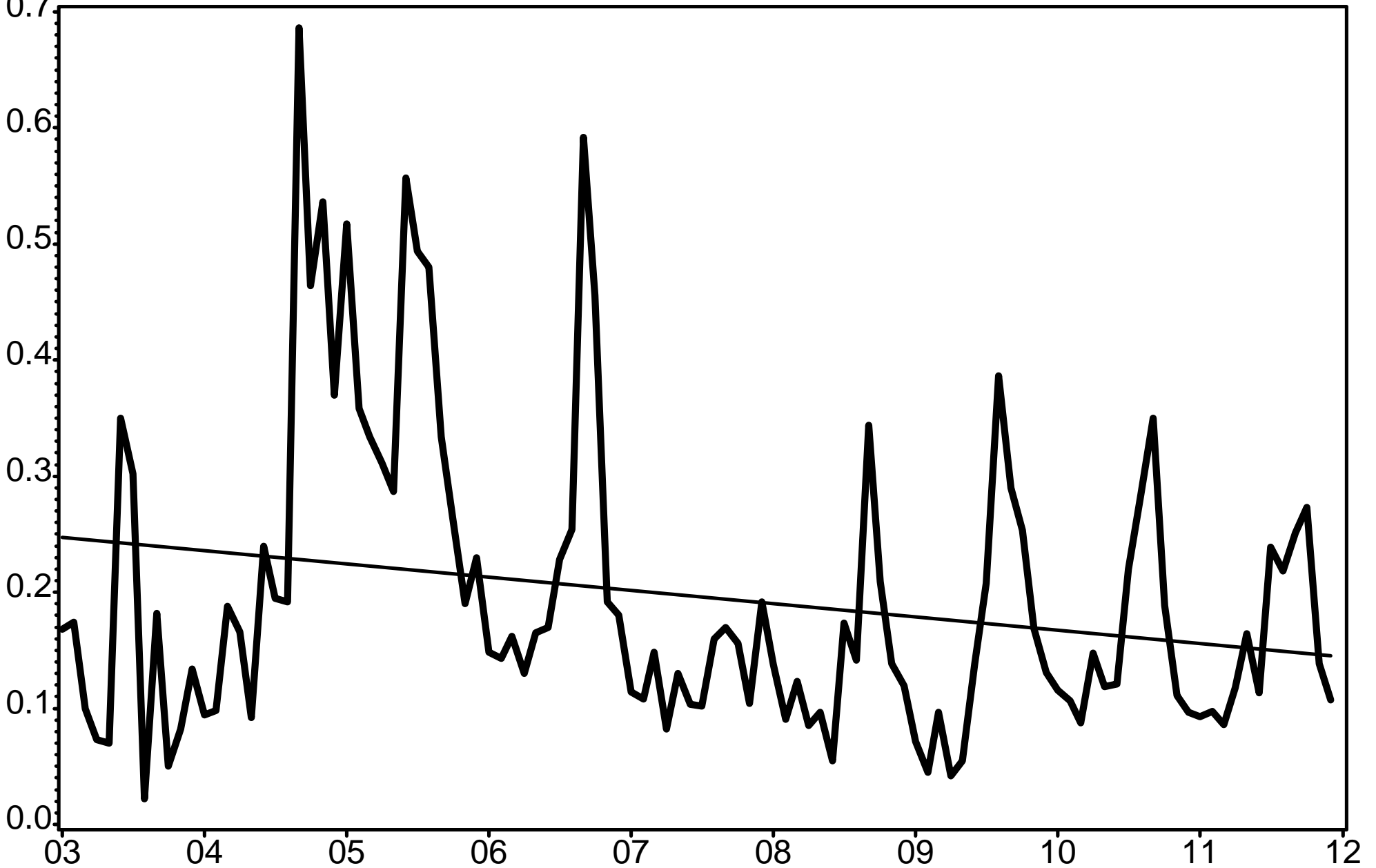
West Wall Trends Appendix - Display 2471

Monthly Data Time Series

for Surface Total Phosphorous in West Wall

Not Adjusted for Seasonal Medians

TP_mgl
(mg/l)



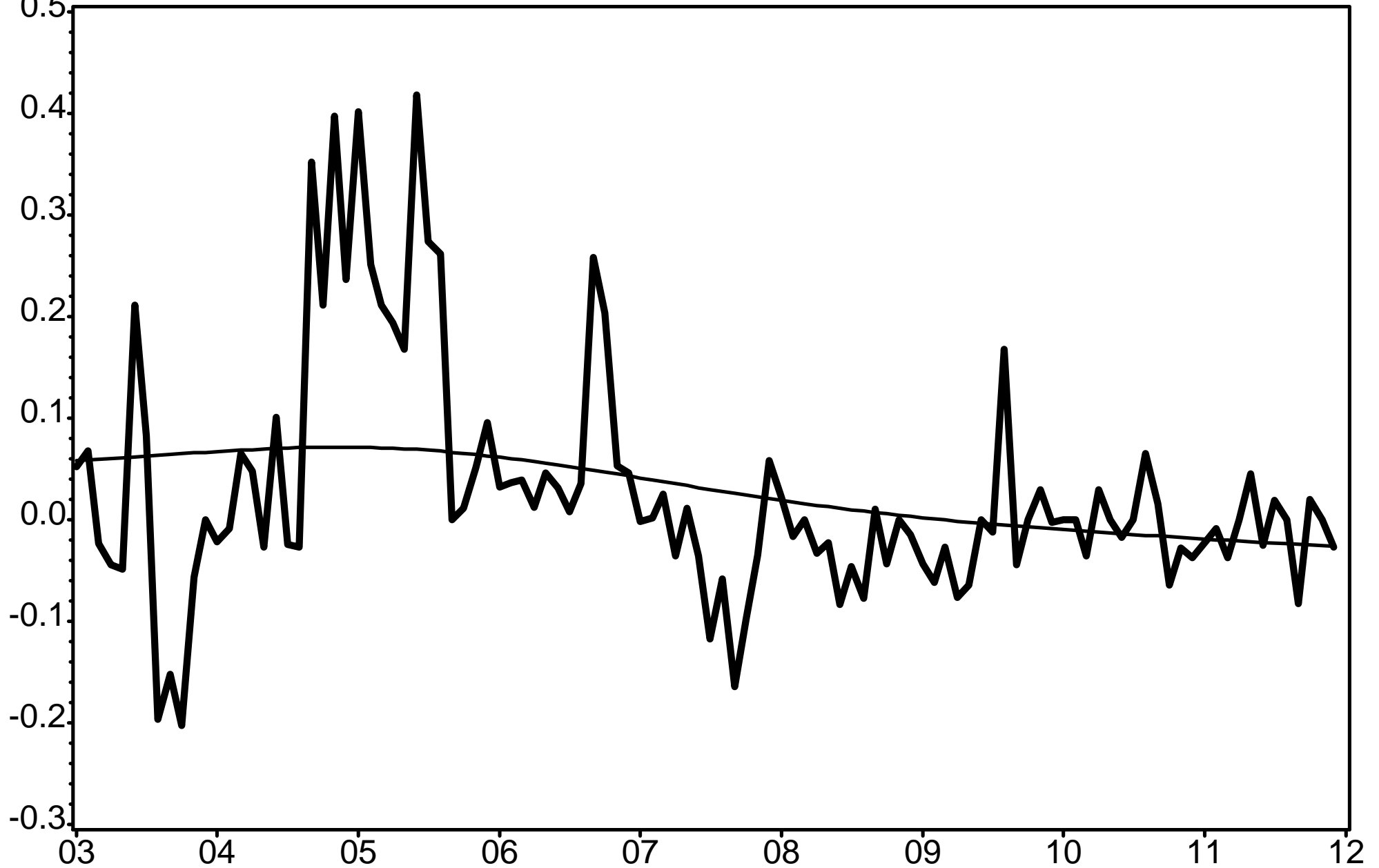
West Wall Trends Appendix - Display 2472

Monthly Data Time Series

for Surface Total Phosphorous in West Wall

Adjusted for Seasonal Medians

Adjusted
TP_mgl
(mg/l)

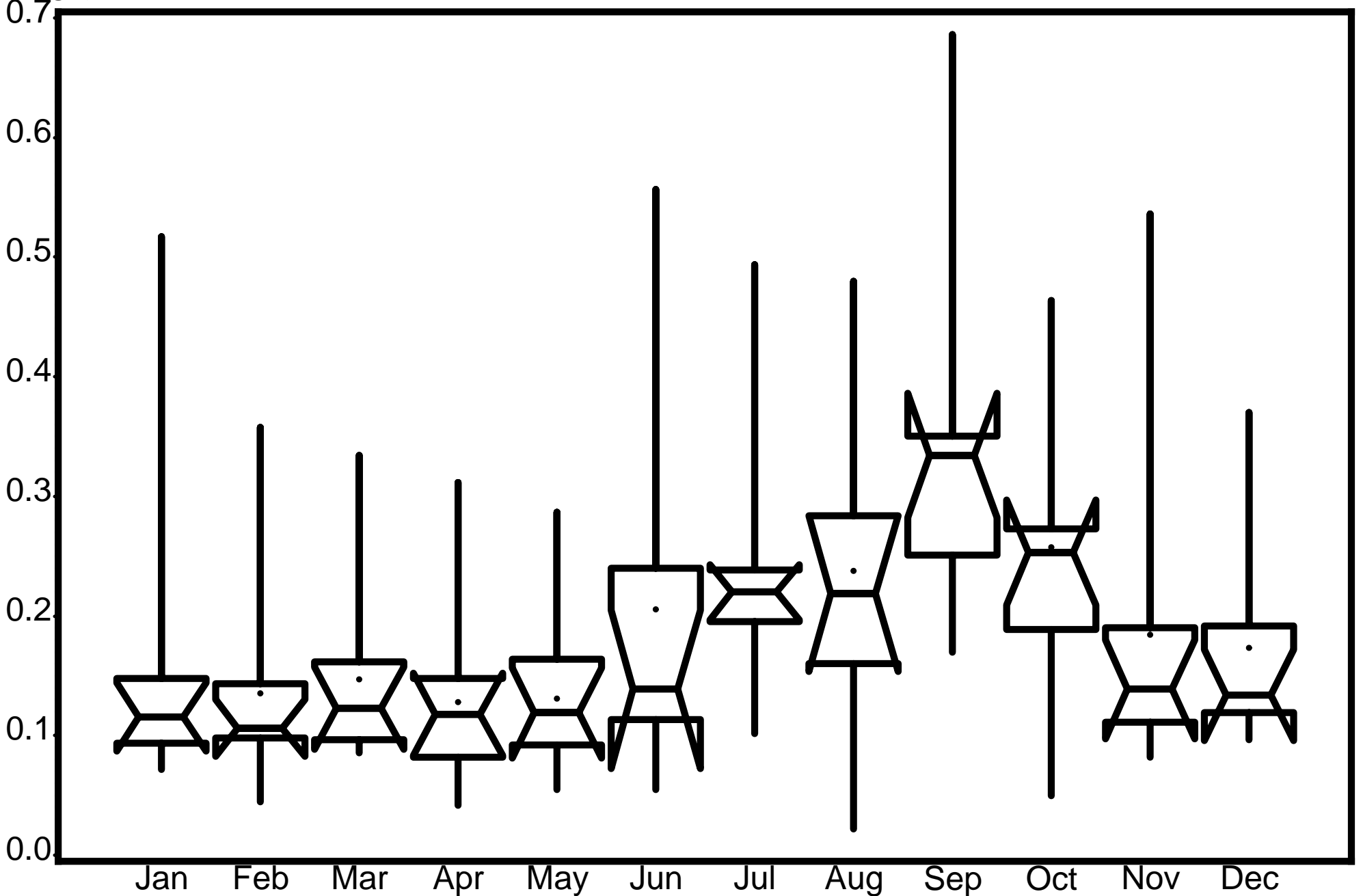


West Wall Trends Appendix - Display 2473

Seasonal Univariate Statistics

for Surface Total Phosphorous in West Wall

TP_mgl
(mg/l)



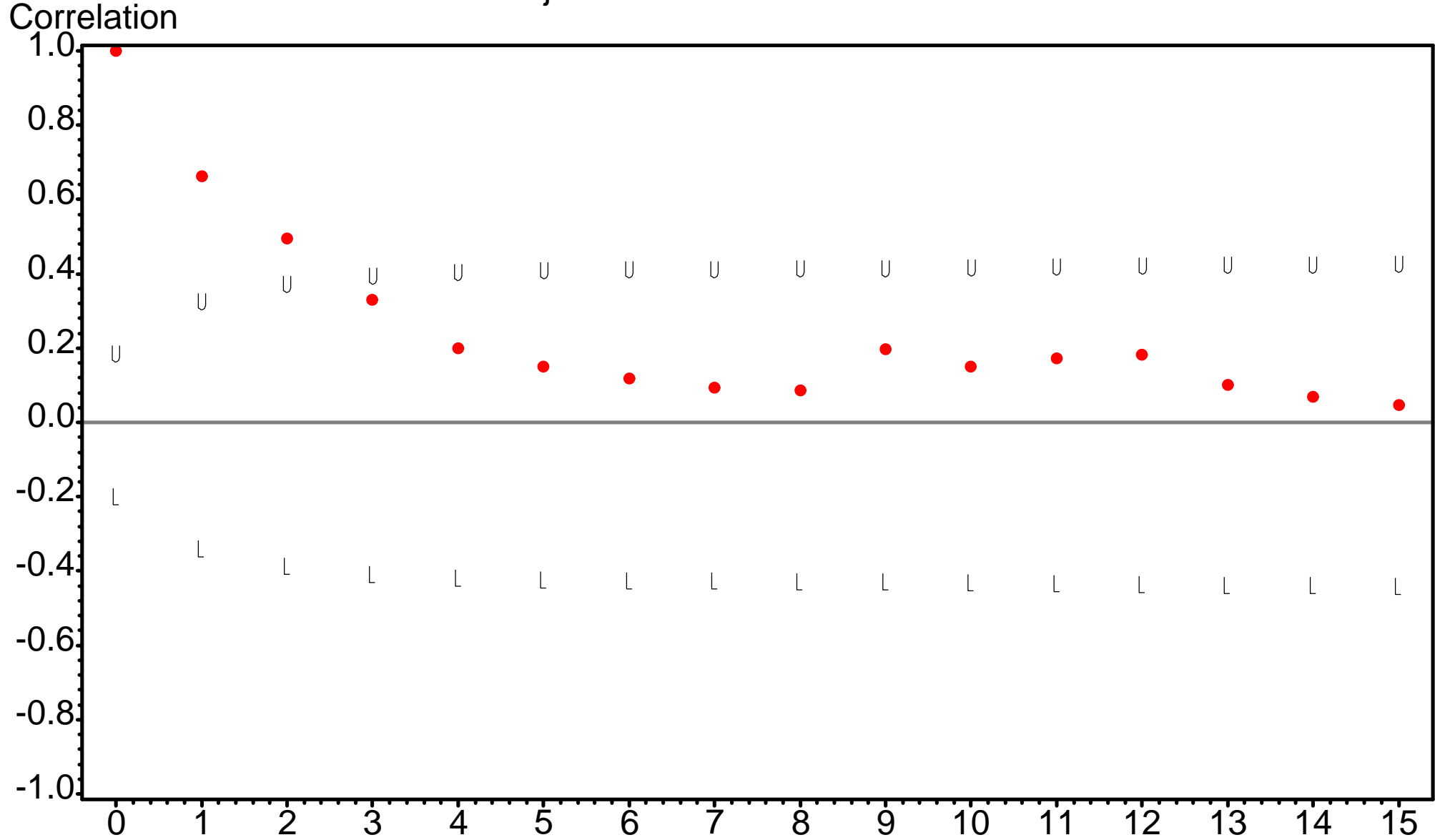
West Wall Trends Appendix - Display 2474
Autocorrelation Statistics for Surface Total Phosphorous in West Wall

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.662	0.167	0.333	-0.333
2	0.495	0.189	0.379	-0.379
3	0.331	0.201	0.402	-0.402
4	0.199	0.206	0.412	-0.412
5	0.150	0.208	0.416	-0.416
6	0.118	0.209	0.418	-0.418
7	0.094	0.209	0.419	-0.419
8	0.086	0.210	0.420	-0.420
9	0.197	0.210	0.420	-0.420
10	0.151	0.212	0.424	-0.424
11	0.172	0.213	0.426	-0.426
12	0.183	0.214	0.428	-0.428
13	0.102	0.216	0.431	-0.431
14	0.070	0.216	0.432	-0.432
15	0.048	0.216	0.433	-0.433

West Wall Trends Appendix - Display 2475

Correlogram for Surface Total Phosphorous in West Wall

Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2476
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.131	0.045	0.045	-.007

West Wall Trends Appendix - Display 2477
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Phosphorous in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.24769	.0014145	0.13265	-0.010633

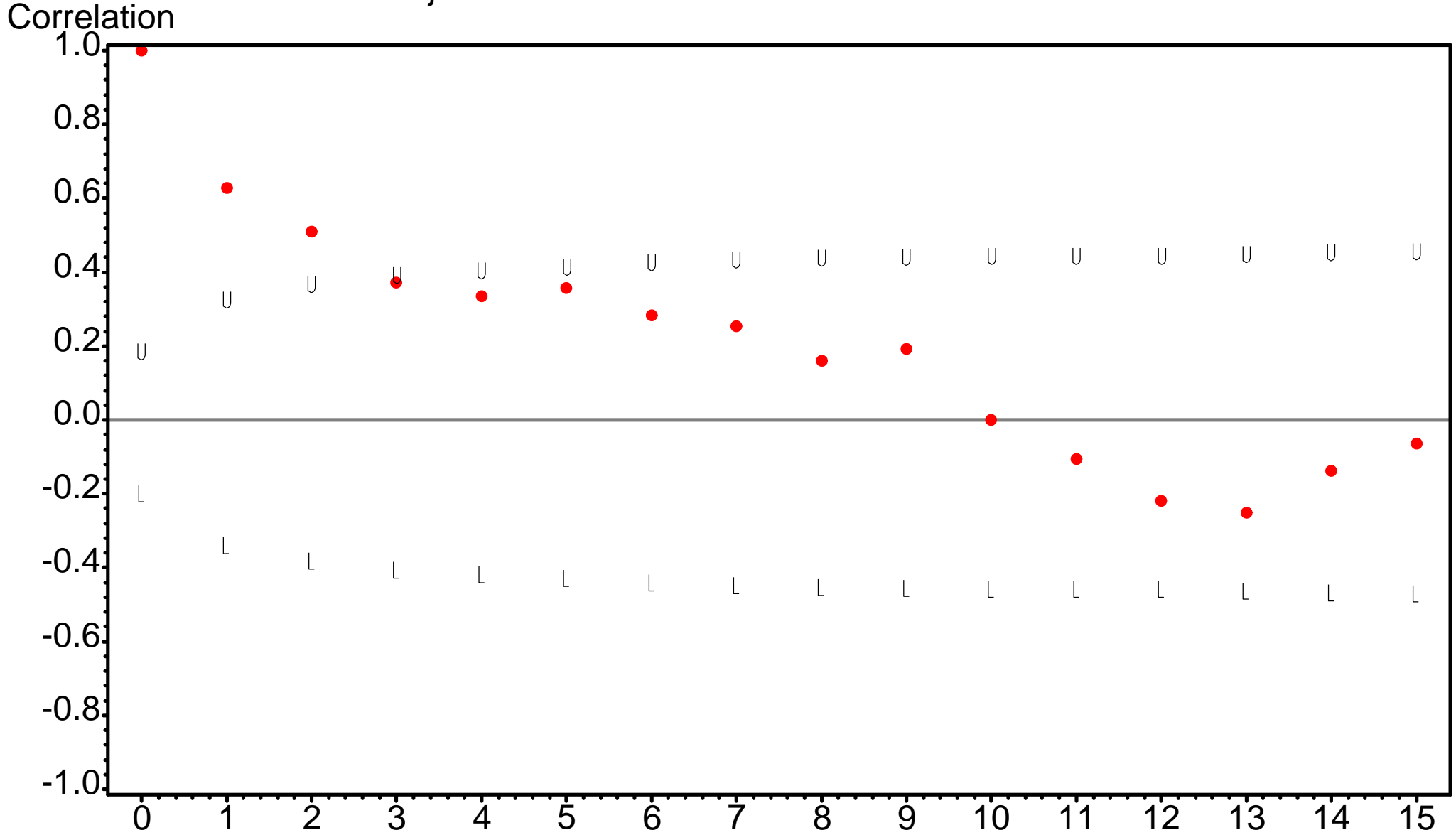
West Wall Trends Appendix - Display 2479
Autocorrelation Statistics for Surface Total Phosphorous in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Phosphorous	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.628	0.167	0.333	-0.333
2	0.510	0.187	0.375	-0.375
3	0.371	0.200	0.399	-0.399
4	0.335	0.206	0.412	-0.412
5	0.357	0.211	0.422	-0.422
6	0.282	0.217	0.433	-0.433
7	0.254	0.220	0.440	-0.440
8	0.159	0.223	0.445	-0.445
9	0.193	0.224	0.447	-0.447
10	0.000	0.225	0.450	-0.450
11	-0.106	0.225	0.450	-0.450
12	-0.219	0.226	0.451	-0.451
13	-0.250	0.228	0.455	-0.455
14	-0.139	0.230	0.460	-0.460
15	-0.065	0.231	0.462	-0.462

West Wall Trends Appendix - Display 2480

Correlogram for Surface Total Phosphorous in West Wall

Adjusted for Seasonal Median and Detrended



Lagged Total Phosphorous

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

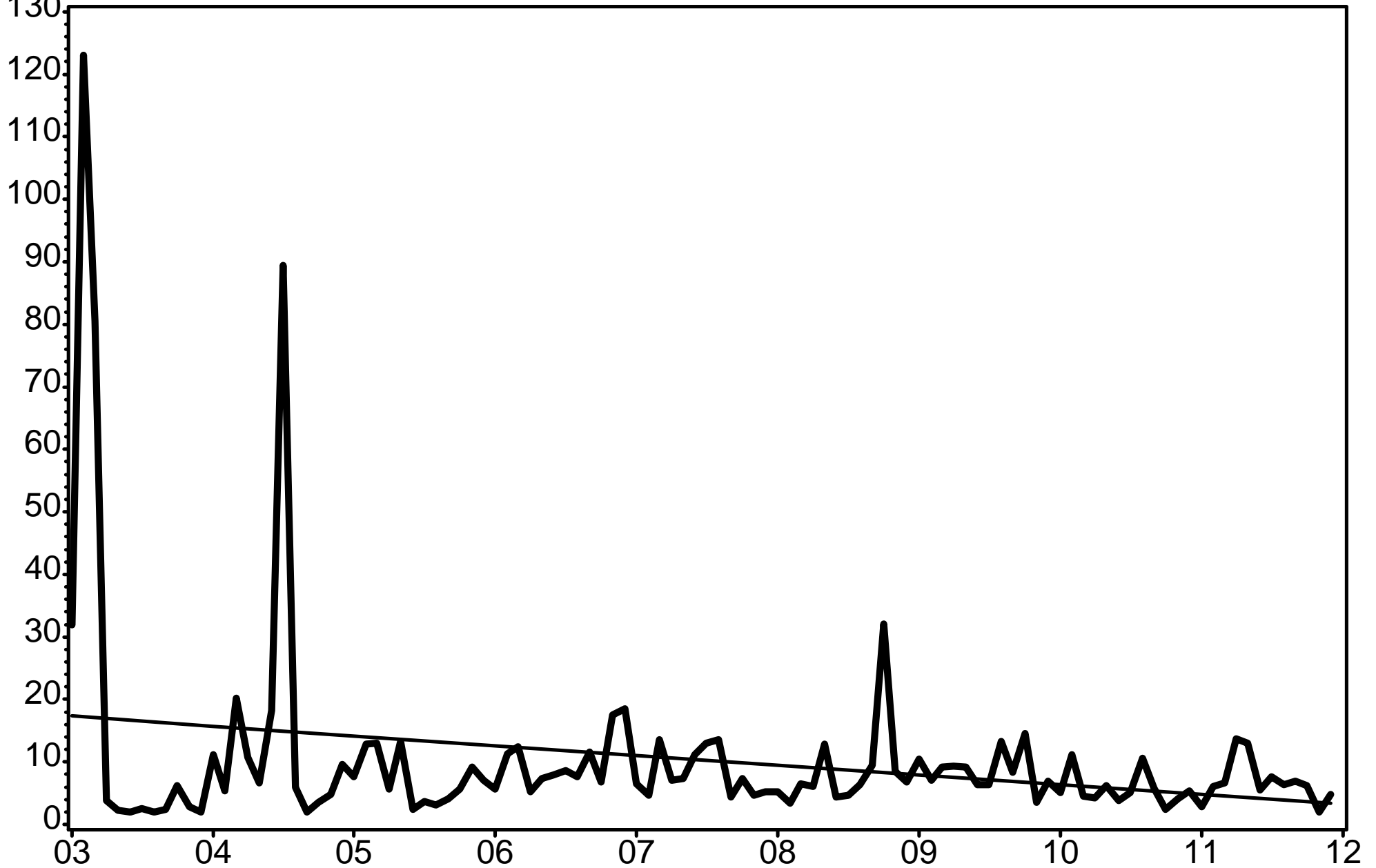
West Wall Trends Appendix - Display 2481

Monthly Data Time Series

for Surface Total Suspended Solids in West Wall

Not Adjusted for Seasonal Medians

TSS_mgl
(mg/l)



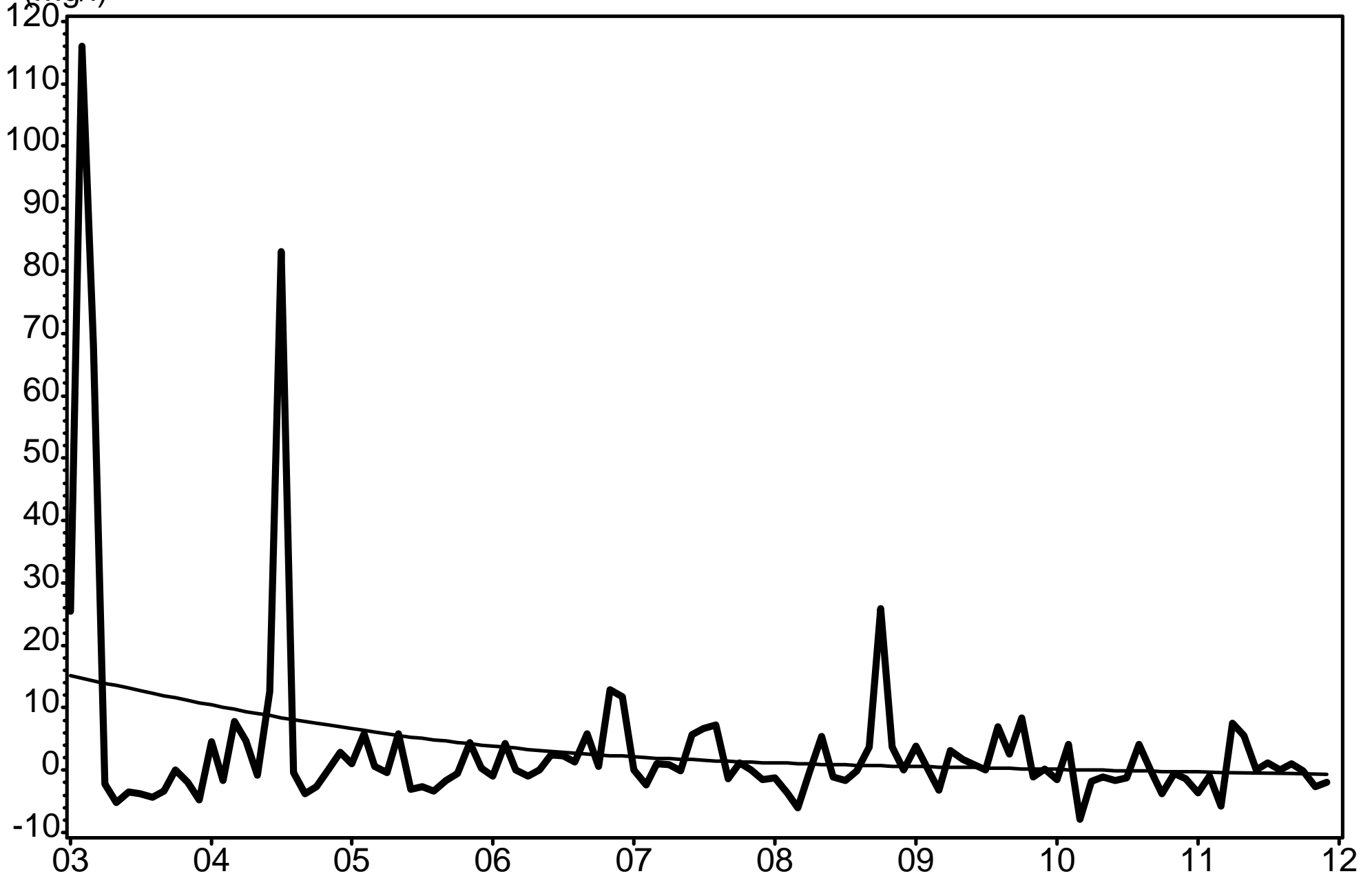
West Wall Trends Appendix - Display 2482

Monthly Data Time Series

for Surface Total Suspended Solids in West Wall

Adjusted for Seasonal Medians

Adjusted
TSS_mgl
(mg/l)

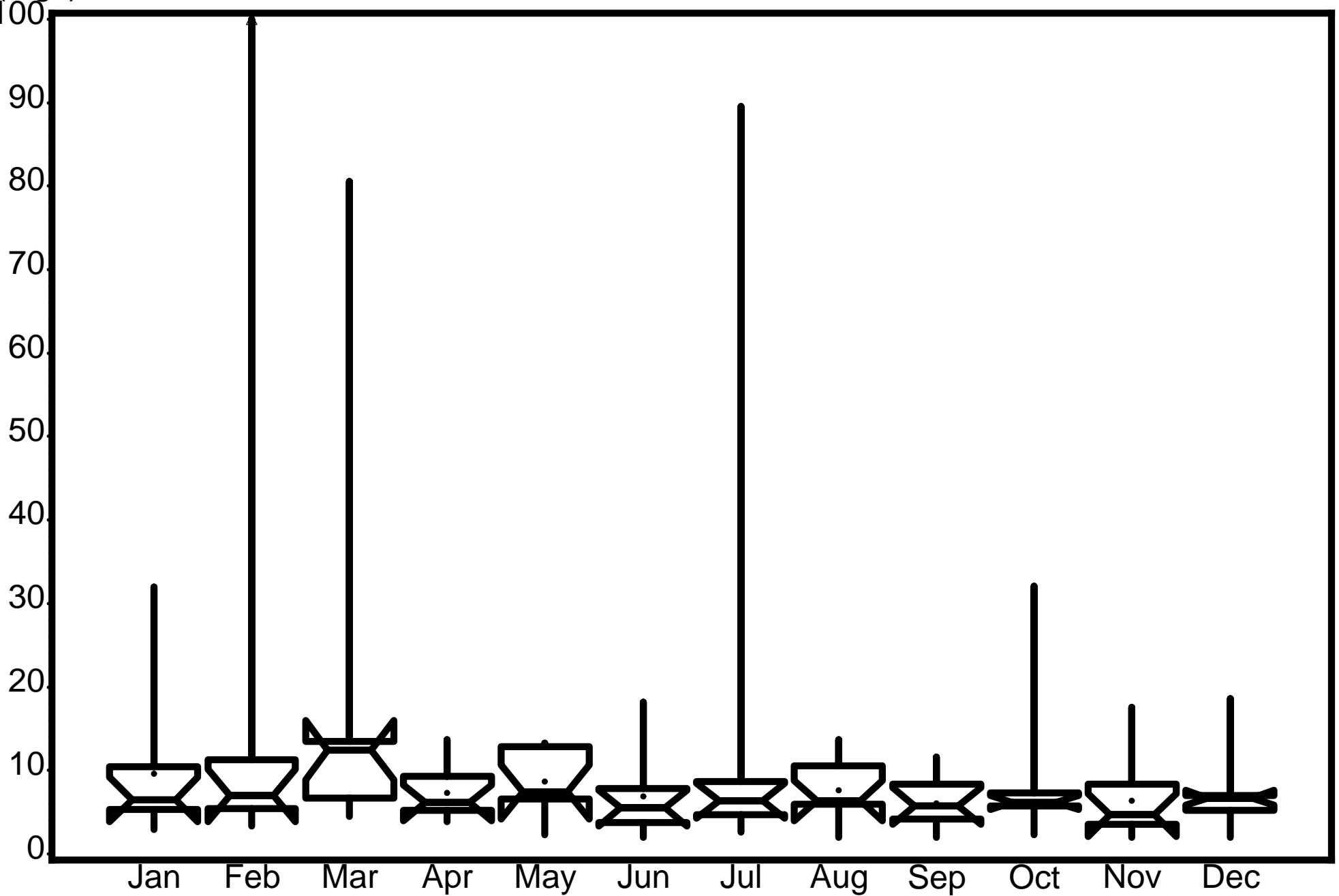


West Wall Trends Appendix - Display 2483

Seasonal Univariate Statistics

for Surface Total Suspended Solids in West Wall

TSS_mgl
(mg/l)



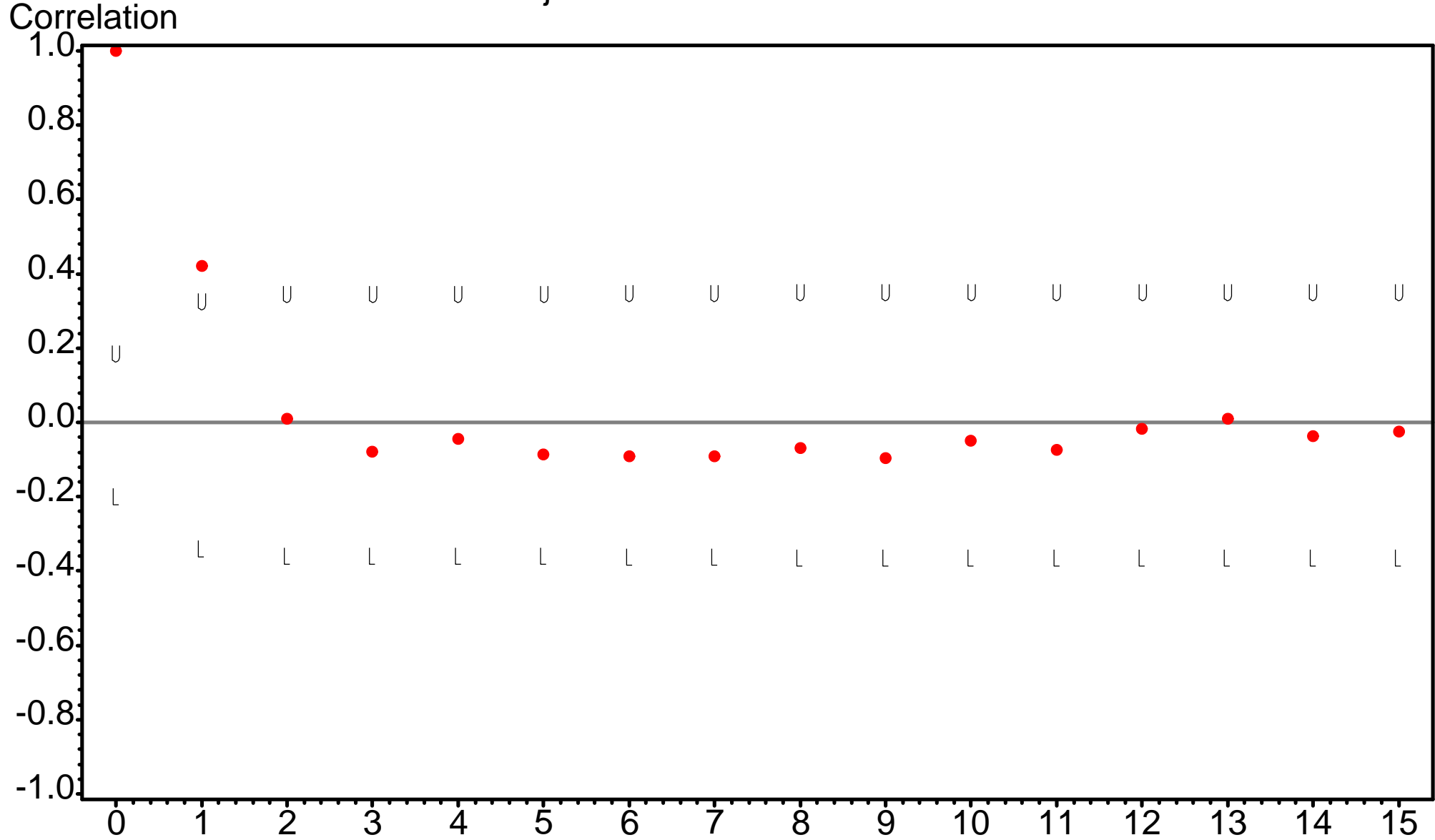
West Wall Trends Appendix - Display 2484
Autocorrelation Statistics for Surface Total Suspended Solids in West Wall

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.421	0.167	0.333	-0.333
2	0.011	0.176	0.352	-0.352
3	-0.078	0.176	0.352	-0.352
4	-0.045	0.177	0.353	-0.353
5	-0.087	0.177	0.353	-0.353
6	-0.090	0.177	0.354	-0.354
7	-0.090	0.177	0.355	-0.355
8	-0.070	0.178	0.356	-0.356
9	-0.097	0.178	0.356	-0.356
10	-0.048	0.179	0.357	-0.357
11	-0.075	0.179	0.358	-0.358
12	-0.016	0.179	0.358	-0.358
13	0.009	0.179	0.358	-0.358
14	-0.037	0.179	0.358	-0.358
15	-0.025	0.179	0.358	-0.358

West Wall Trends Appendix - Display 2485

Correlogram for Surface Total Suspended Solids in West Wall

Unadjusted for Seasonal Median



Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit

Zero Reference Line Shown

West Wall Trends Appendix - Display 2486
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in West Wall
Unadjusted for Seasonal Medians

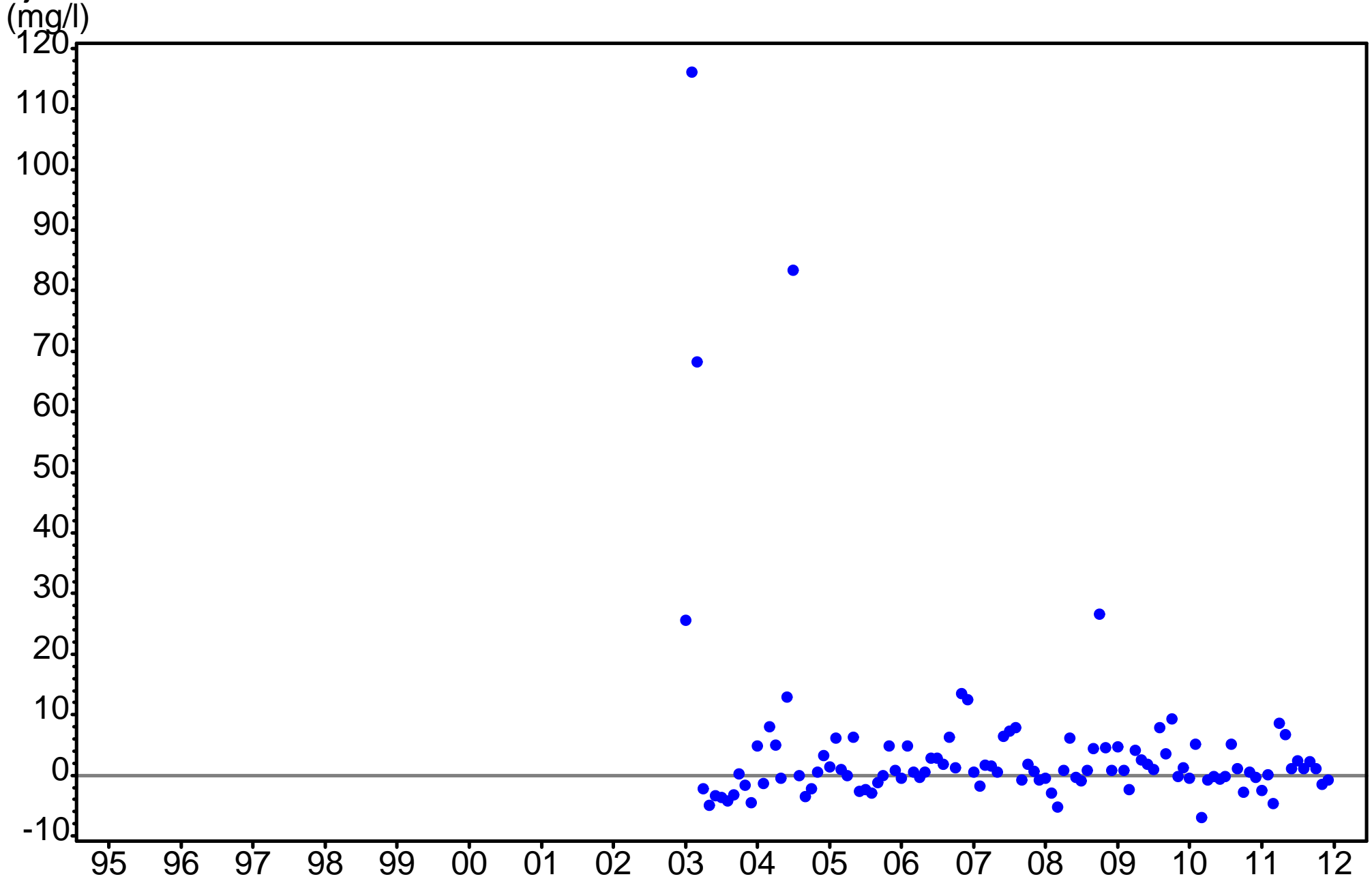
Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.023	0.726	0.726	-0.053

West Wall Trends Appendix - Display 2487
Seasonal Kendall Tau Trend Test Statistics
for Surface Total Suspended Solids in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.050926	0.52737	0.63445	-0.12075

West Wall Trends Appendix - Display 2488

Time Series Plot of Surface Total Suspended Solids Data Adjusted for Season and Detrended
Adjusted West Wall



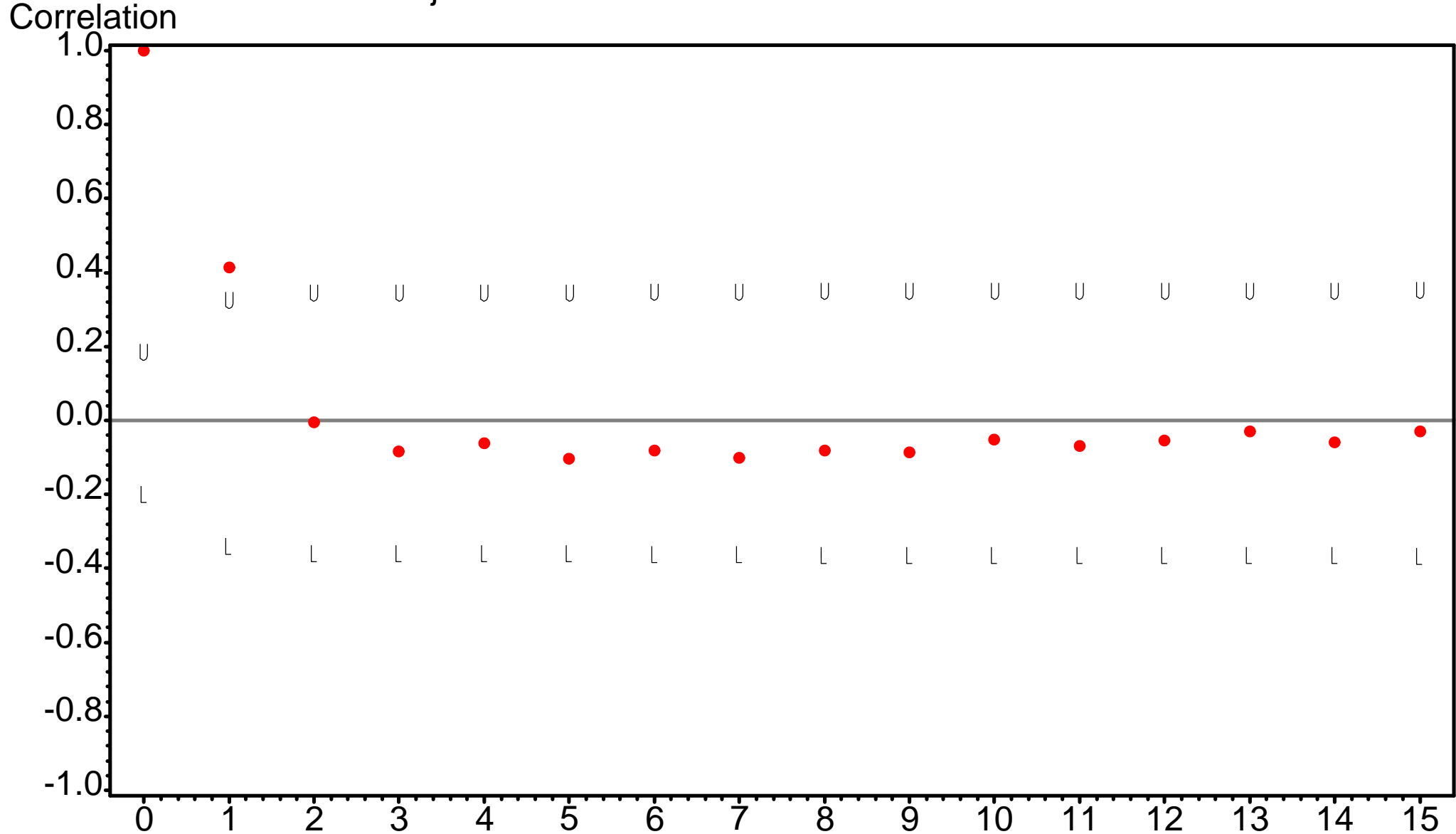
Zero Reference Line Shown

West Wall Trends Appendix - Display 2489
Autocorrelation Statistics for Surface Total Suspended Solids in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Total Suspended Solids	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.413	0.167	0.333	-0.333
2	-0.004	0.176	0.352	-0.352
3	-0.083	0.176	0.352	-0.352
4	-0.062	0.176	0.352	-0.352
5	-0.103	0.176	0.353	-0.353
6	-0.081	0.177	0.354	-0.354
7	-0.101	0.177	0.355	-0.355
8	-0.080	0.178	0.356	-0.356
9	-0.085	0.178	0.356	-0.356
10	-0.051	0.179	0.357	-0.357
11	-0.070	0.179	0.357	-0.357
12	-0.054	0.179	0.358	-0.358
13	-0.030	0.179	0.358	-0.358
14	-0.060	0.179	0.358	-0.358
15	-0.029	0.179	0.359	-0.359

West Wall Trends Appendix - Display 2490

Correlogram for Surface Total Suspended Solids in West Wall Adjusted for Seasonal Median and Detrended

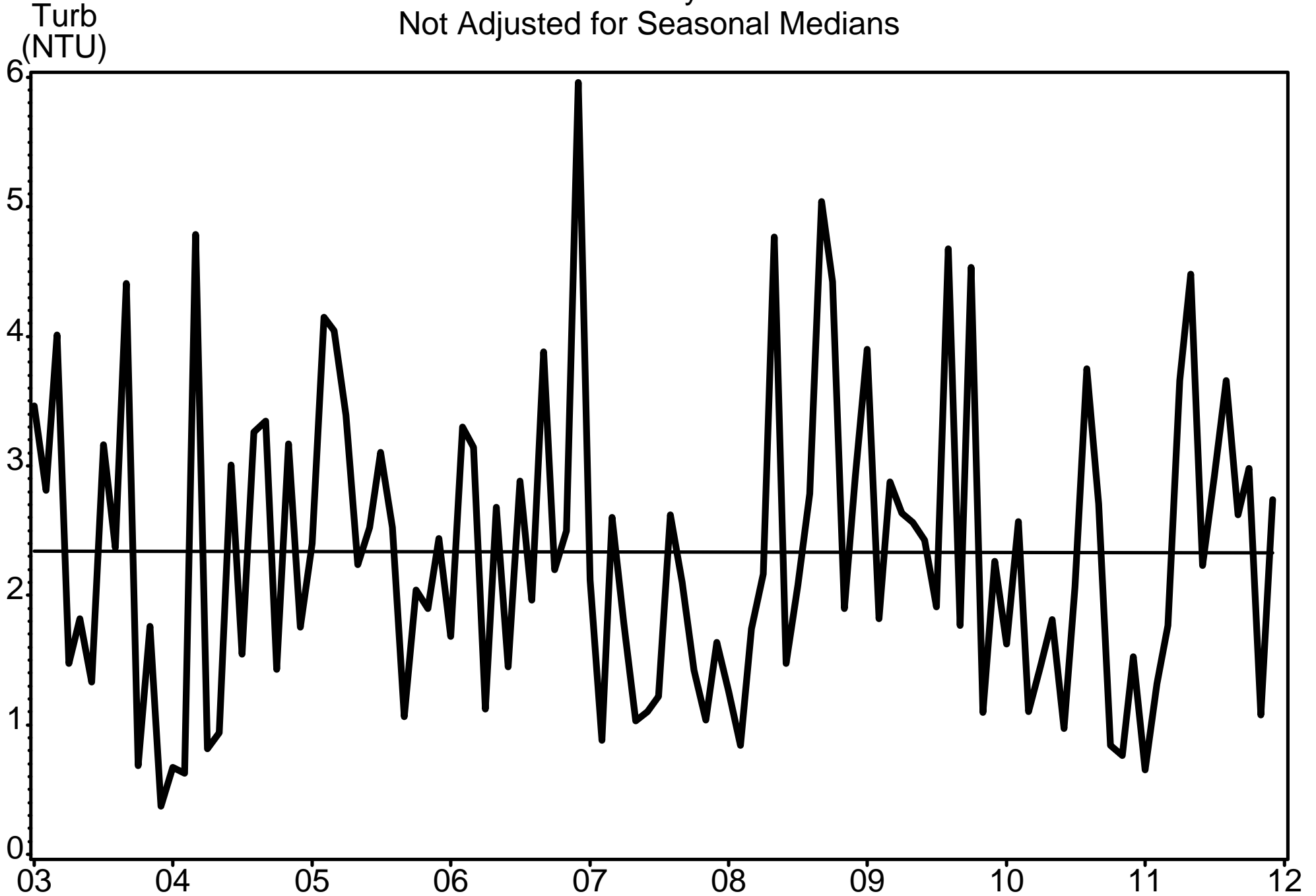


Lagged Total Suspended Solids

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2491

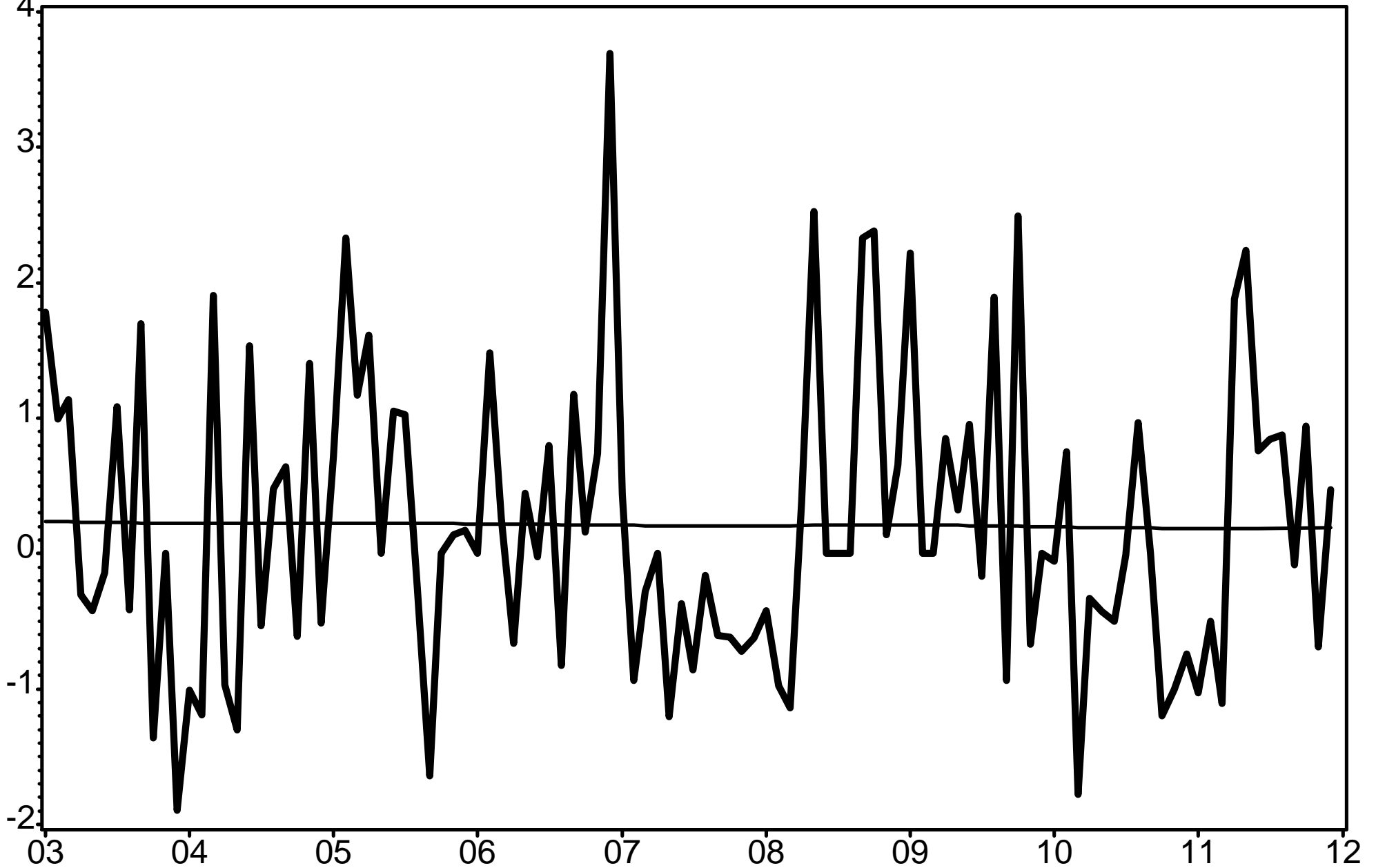
Monthly Data Time Series
for Surface Turbidity in West Wall
Not Adjusted for Seasonal Medians



West Wall Trends Appendix - Display 2492

Monthly Data Time Series
for Surface Turbidity in West Wall
Adjusted for Seasonal Medians

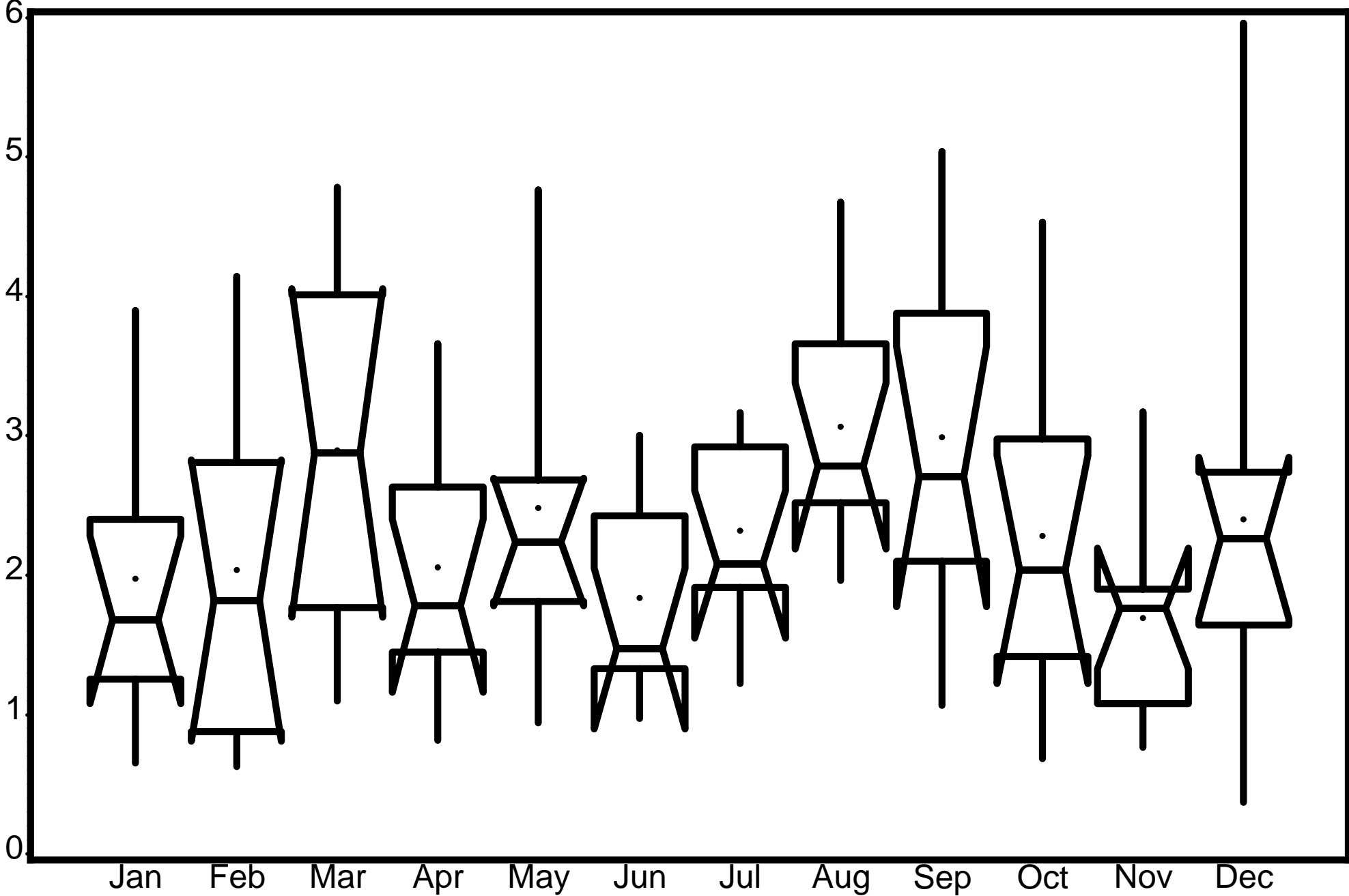
Adjusted
Turb
(NTU)



West Wall Trends Appendix - Display 2493

Seasonal Univariate Statistics for Surface Turbidity in West Wall

Turb
(NTU)

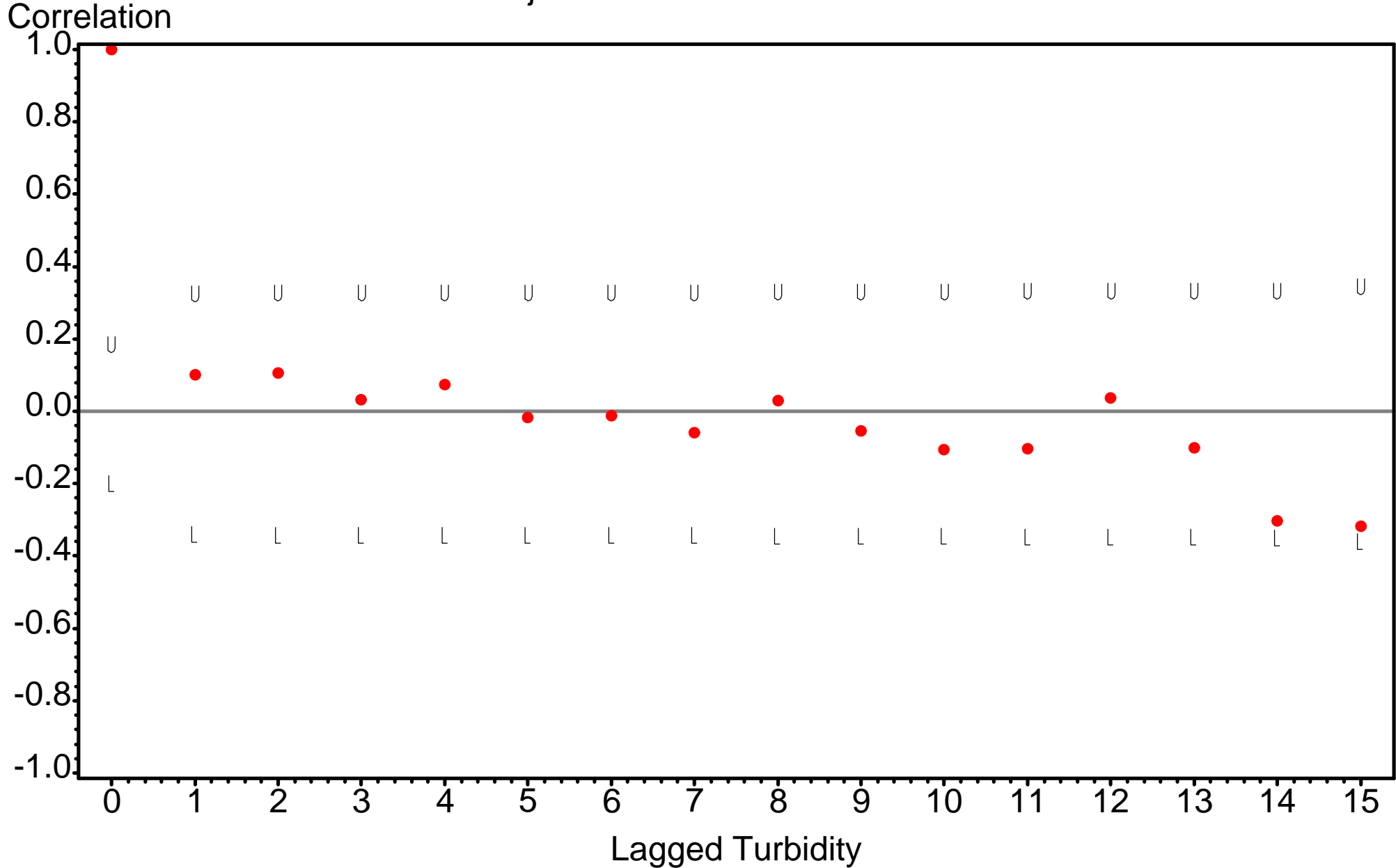


West Wall Trends Appendix - Display 2494
Autocorrelation Statistics for Surface Turbidity in West Wall

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.100	0.167	0.333	-0.333
2	0.105	0.167	0.334	-0.334
3	0.033	0.168	0.336	-0.336
4	0.075	0.168	0.336	-0.336
5	-0.016	0.168	0.336	-0.336
6	-0.012	0.168	0.336	-0.336
7	-0.058	0.168	0.336	-0.336
8	0.030	0.168	0.337	-0.337
9	-0.055	0.168	0.337	-0.337
10	-0.107	0.169	0.337	-0.337
11	-0.104	0.169	0.339	-0.339
12	0.037	0.170	0.340	-0.340
13	-0.100	0.170	0.340	-0.340
14	-0.303	0.170	0.341	-0.341
15	-0.318	0.175	0.351	-0.351

West Wall Trends Appendix - Display 2495

Correlogram for Surface Turbidity in West Wall
Unadjusted for Seasonal Median



U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown

West Wall Trends Appendix - Display 2496
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in West Wall
Unadjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.01	0.876	0.876	-.007

West Wall Trends Appendix - Display 2497
Seasonal Kendall Tau Trend Test Statistics
for Surface Turbidity in West Wall
Adjusted for Seasonal Medians

Tau Statistic	P-Value Without Serial Correlation	P-Value With Serial Correlation	Slope Statistic
-0.020833	0.80965	0.86341	-.00528571

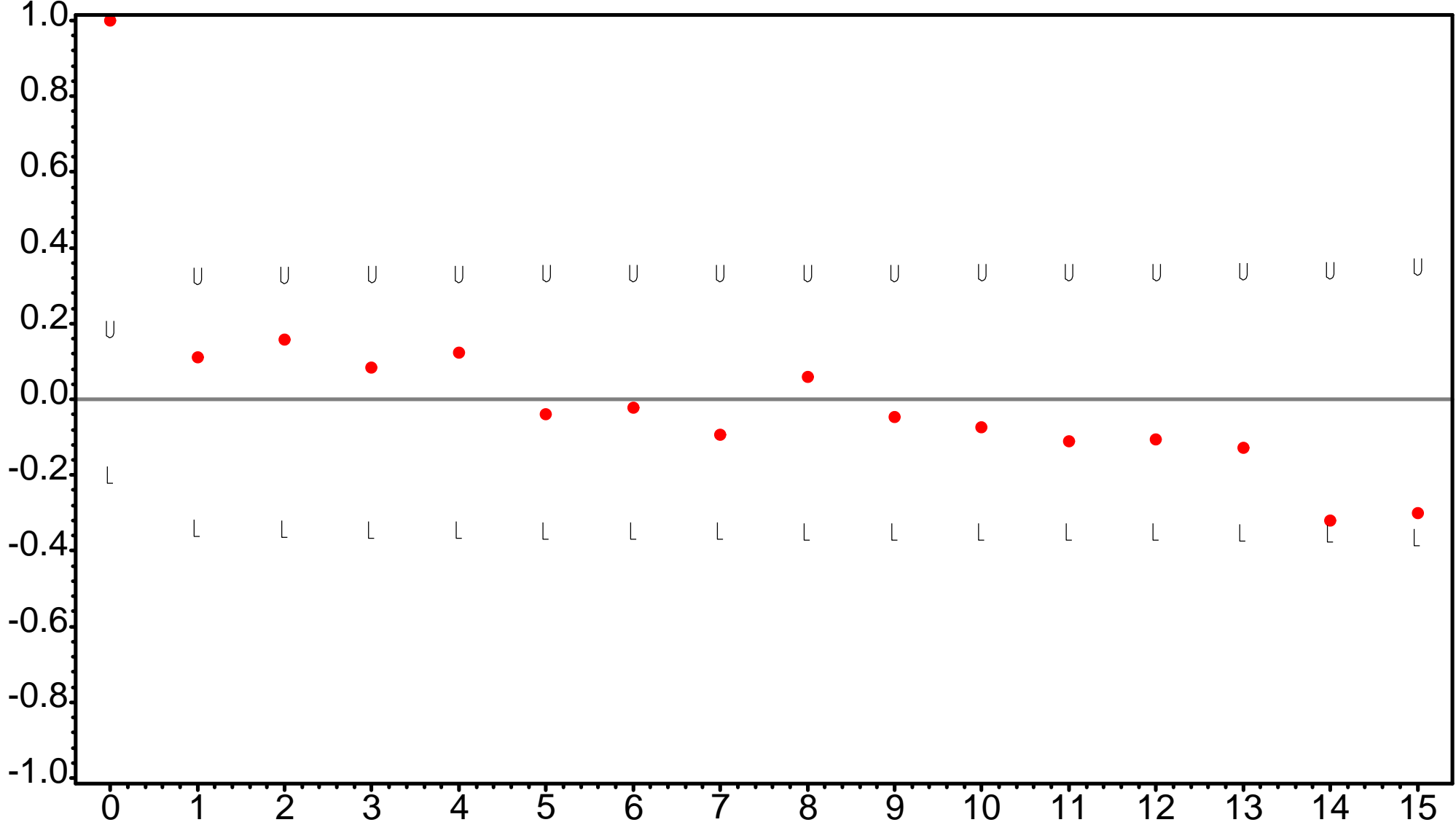
West Wall Trends Appendix - Display 2499
Autocorrelation Statistics for Surface Turbidity in West Wall
Adjusted for Seasonal Median and Detrended

Lagged Turbidity	Correlation	Standard Error	Upper Limit	Lower Limit
0	1.000	0.096	0.192	-0.192
1	0.112	0.167	0.333	-0.333
2	0.157	0.167	0.335	-0.335
3	0.083	0.169	0.337	-0.337
4	0.122	0.169	0.338	-0.338
5	-0.039	0.170	0.340	-0.340
6	-0.023	0.170	0.340	-0.340
7	-0.093	0.170	0.340	-0.340
8	0.058	0.170	0.341	-0.341
9	-0.047	0.171	0.341	-0.341
10	-0.074	0.171	0.342	-0.342
11	-0.110	0.171	0.342	-0.342
12	-0.106	0.172	0.343	-0.343
13	-0.129	0.172	0.345	-0.345
14	-0.321	0.173	0.346	-0.346
15	-0.301	0.179	0.357	-0.357

West Wall Trends Appendix - Display 2500

Correlogram for Surface Turbidity in West Wall
Adjusted for Seasonal Median and Detrended

Correlation



Lagged Turbidity

U=Upper 95% Confidence Limit L=Lower 95% Confidence Limit
Zero Reference Line Shown