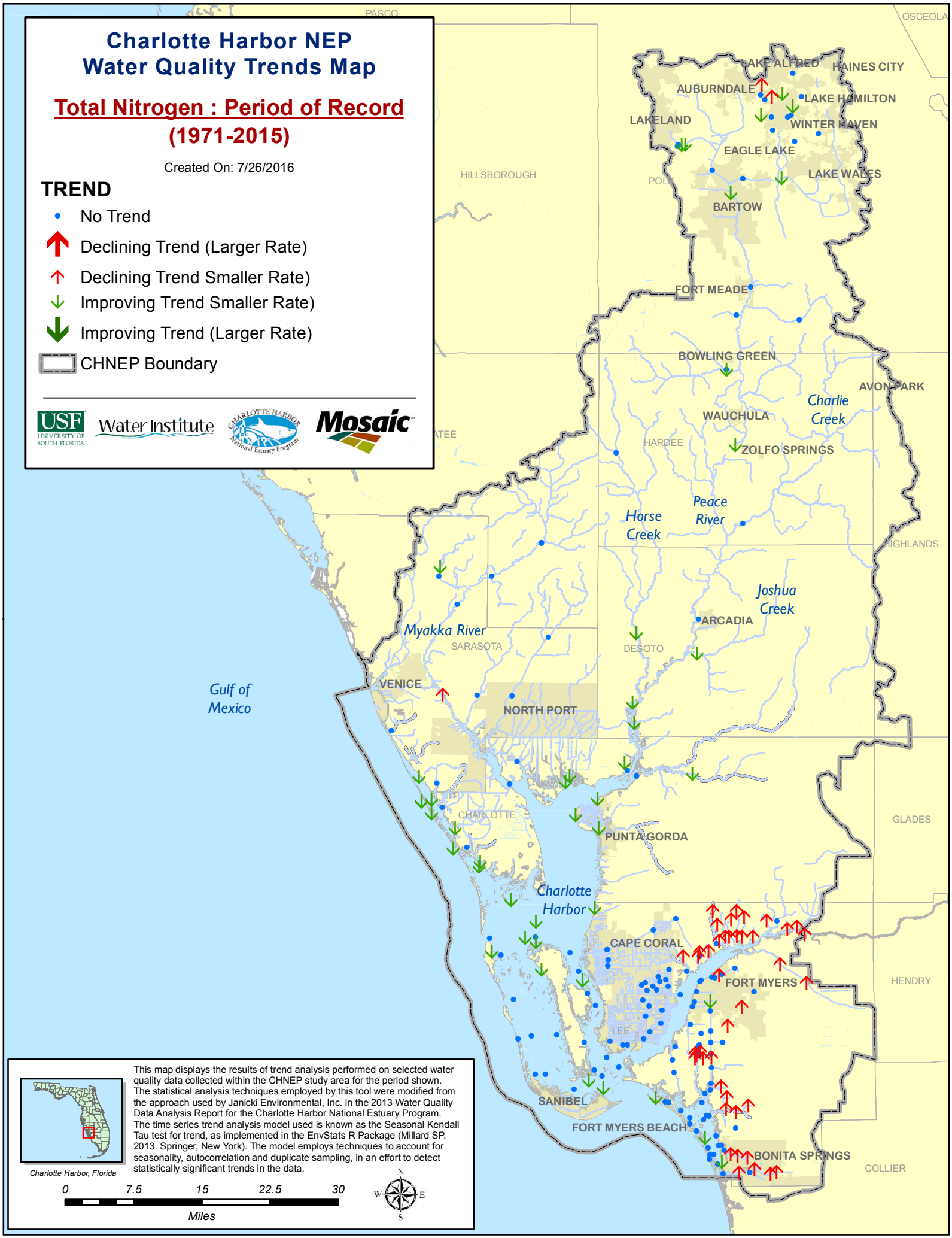
Charlotte Harbor NEP Water Quality Trends Map

Total Nitrogen : Period of Record (1971-2015)

Created On: 7/26/2016

TREND

- No Trend
- Declining Trend (Larger Rate)
- Declining Trend Smaller Rate)
- Improving Trend Smaller Rate)
- Improving Trend (Larger Rate)
- CHNEP Boundary



This map displays the results of trend analysis performed on selected water quality data collected within the CHNEP study area for the period shown. The statistical analysis techniques employed by this tool were modified from the approach used by Janicki Environmental, Inc. in the 2013 Water Quality Data Analysis Report for the Charlotte Harbor National Estuary Program. The time series trend analysis model used is known as the Seasonal Kendall Tau test for trend, as implemented in the EnvStats R Package (Millard SP. 2013. Springer, New York). The model employs techniques to account for seasonality, autocorrelation and duplicate sampling, in an effort to detect statistically significant trends in the data.

Charlotte Harbor, Florida

0 7.5 15 22.5 30

Miles

N W E S