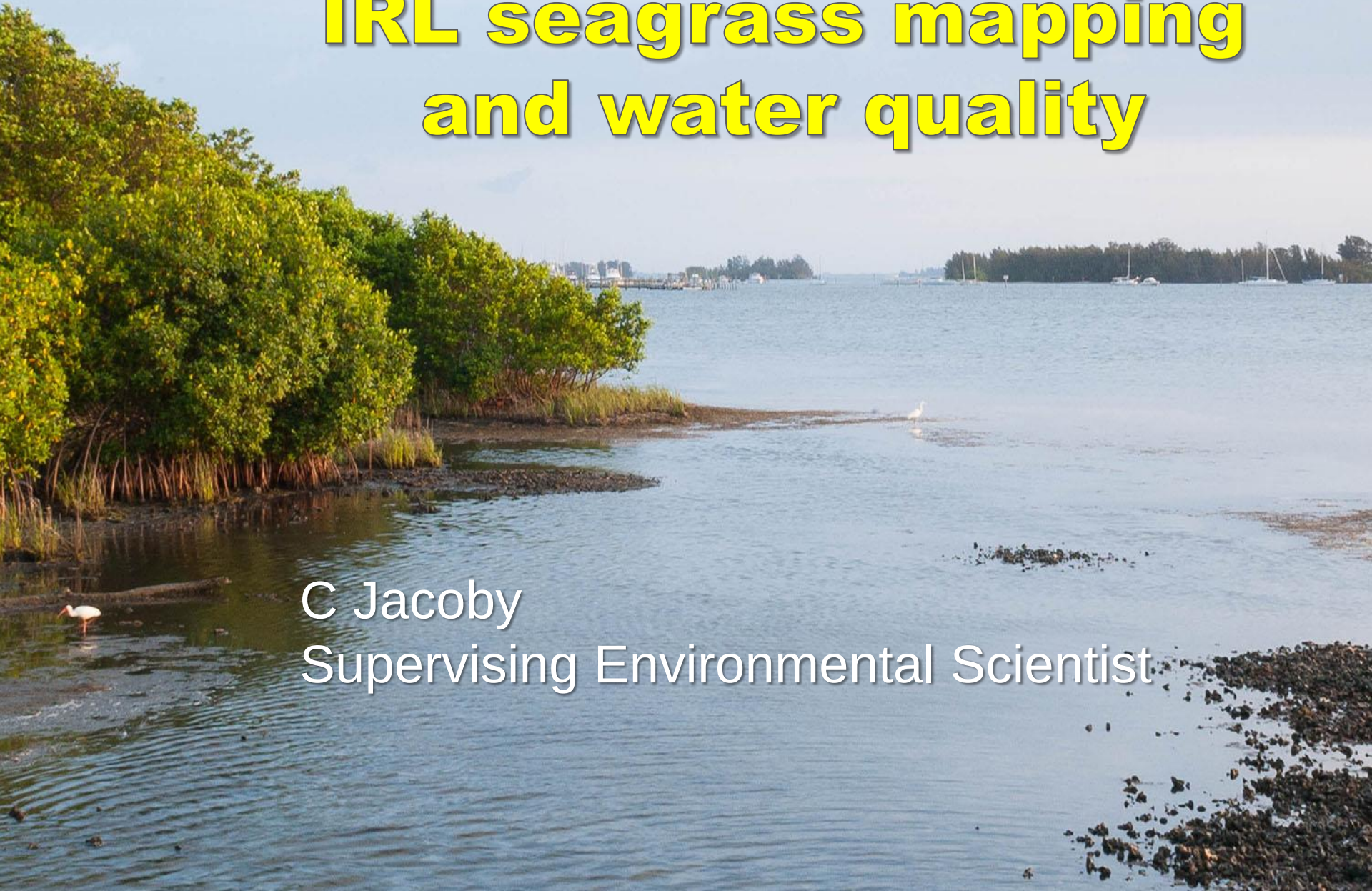


IRL seagrass mapping and water quality

C Jacoby
Supervising Environmental Scientist



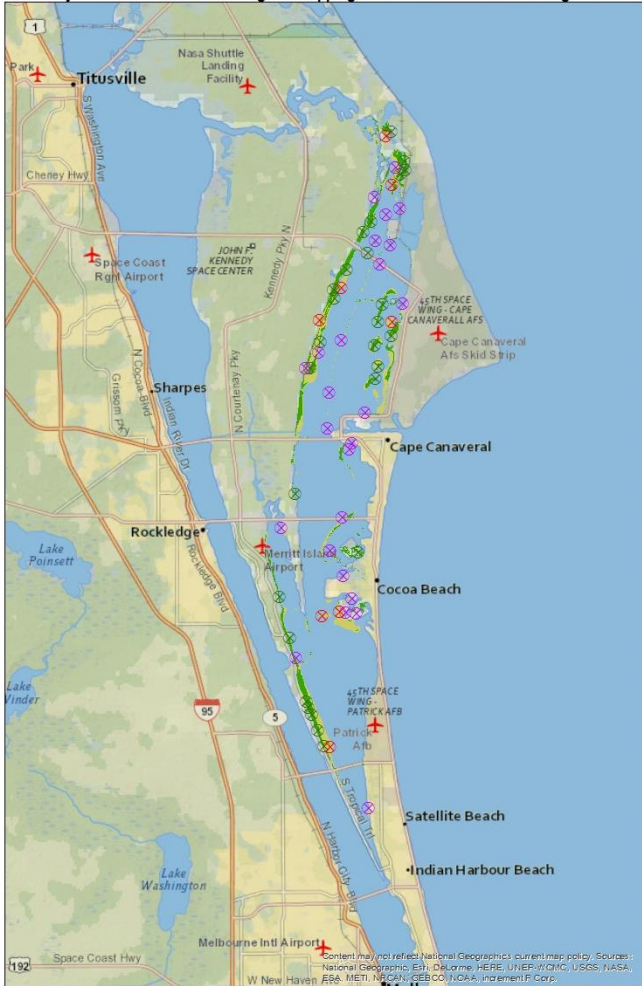
Seagrass mapping

- Images captured and approved
- Accuracy assessment to begin
 - 260 points (53 in SFWMD)
 - 110 in 2011 seagrass footprint
 - 77 in 50 m buffer around 2011 footprint
 - 33 in 2013 footprint beyond buffer
 - 40 additional points in 6 segments

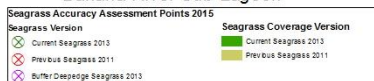


Seagrass mapping

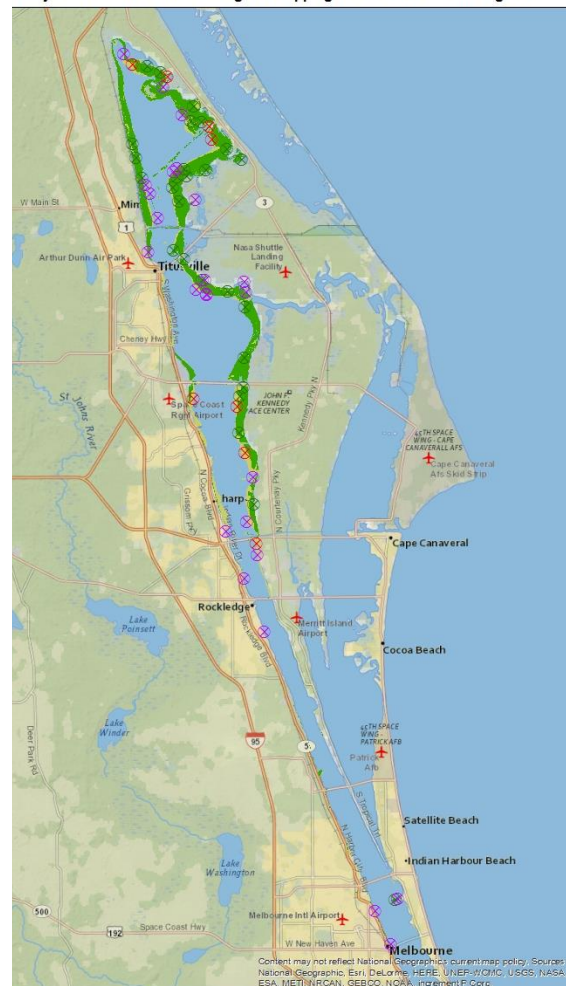
Accuracy Assessment Points for Seagrass Mapping 2015 - Banana River Sub-Lagoon



Banana River Sub-Lagoon



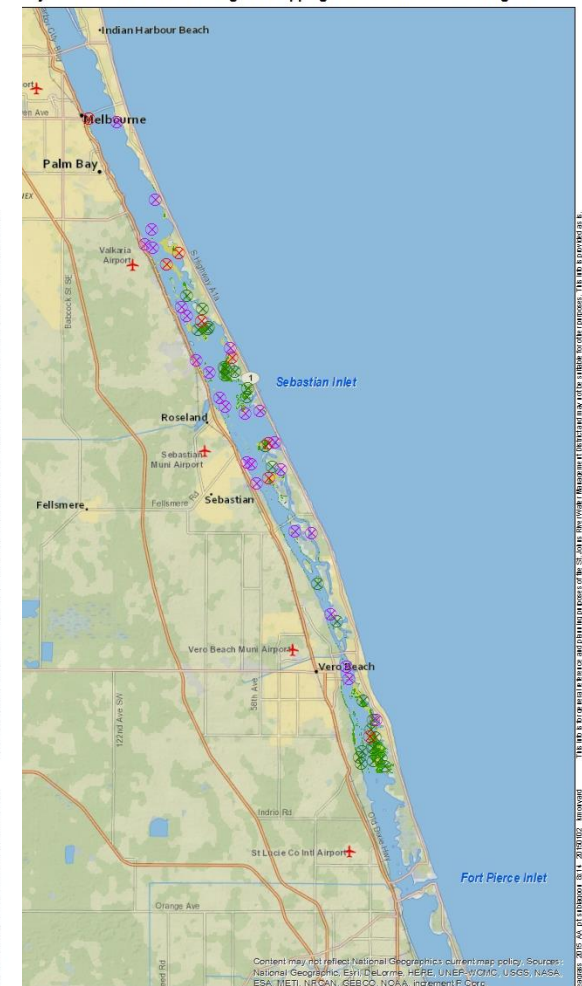
Accuracy Assessment Points for Seagrass Mapping 2015 - North IRL Sub-Lagoon



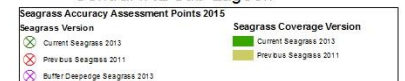
North IRL Sub-Lagoon



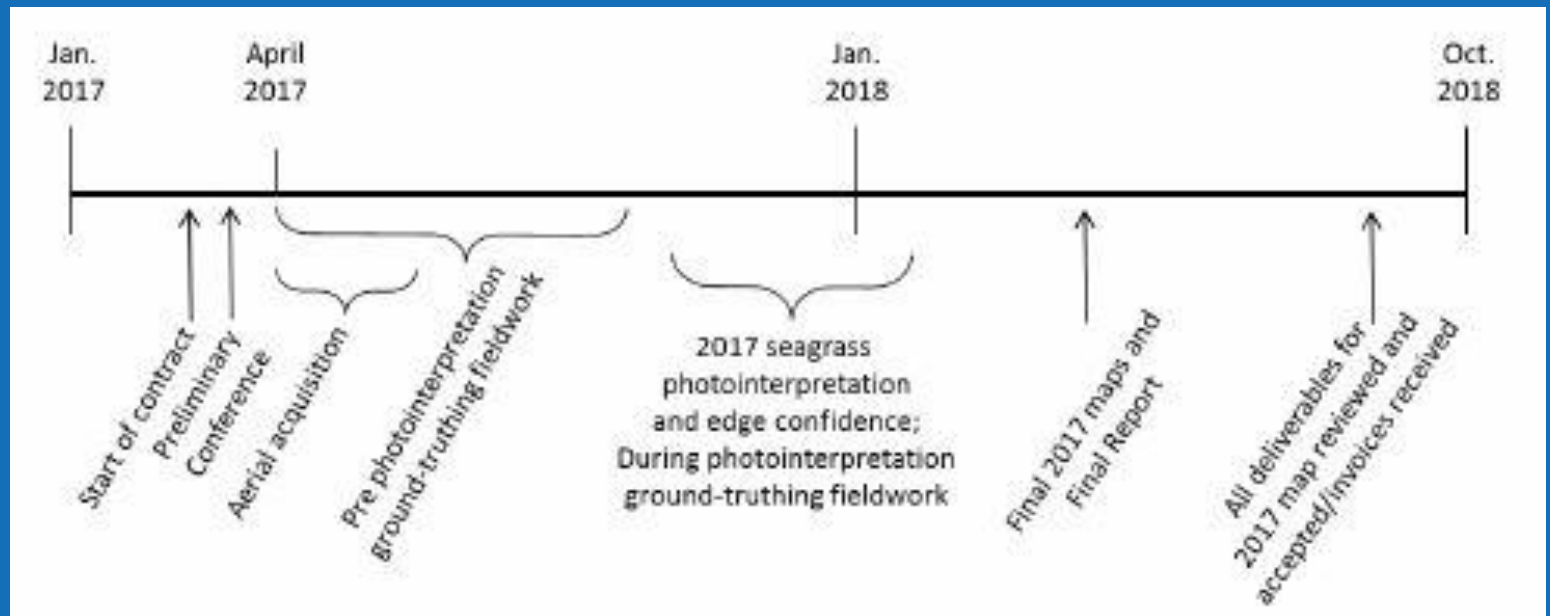
Accuracy Assessment Points for Seagrass Mapping 2015 - Central IRL Sub-Lagoon



Central IRL Sub-Lagoon



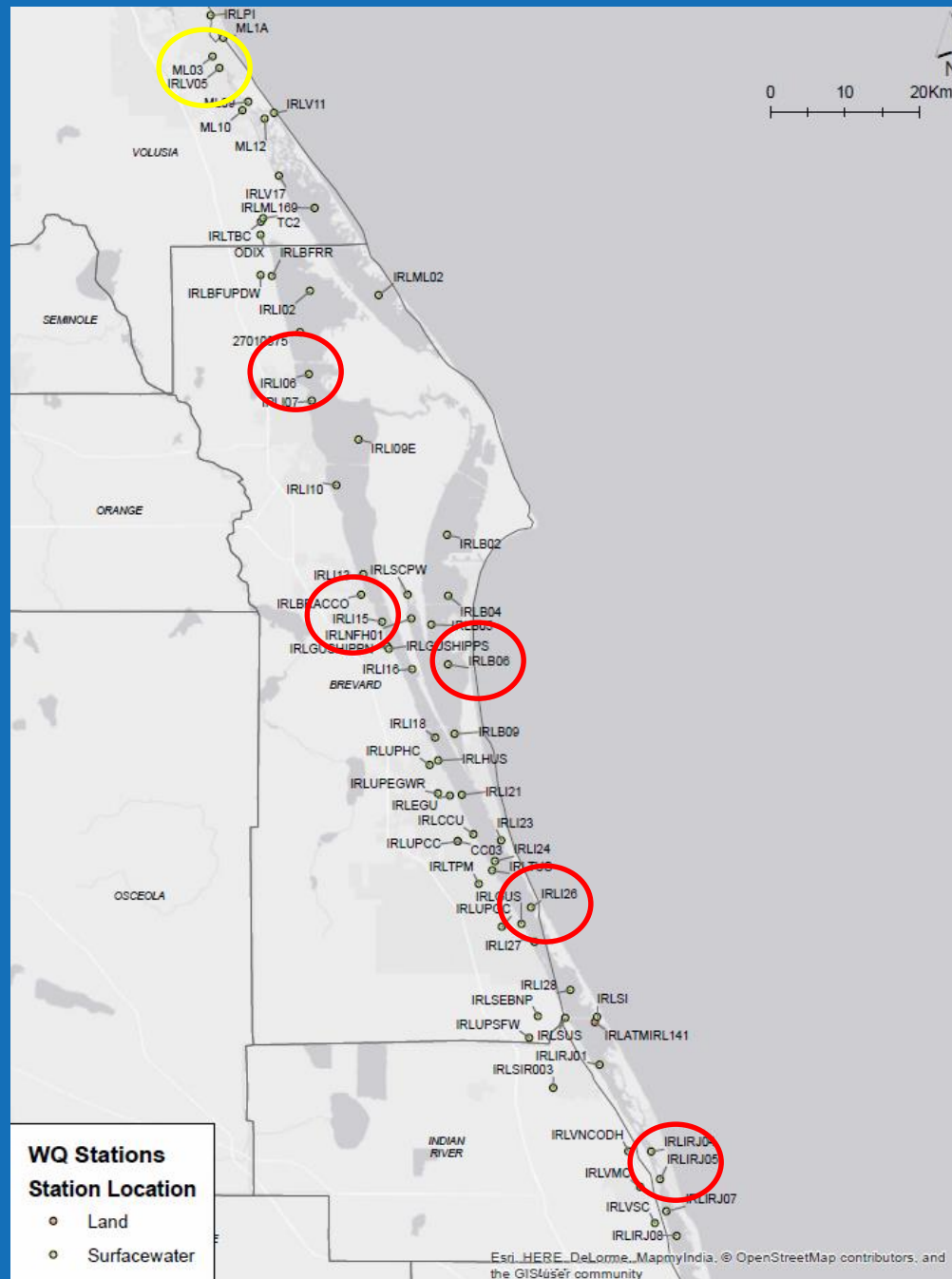
Seagrass mapping



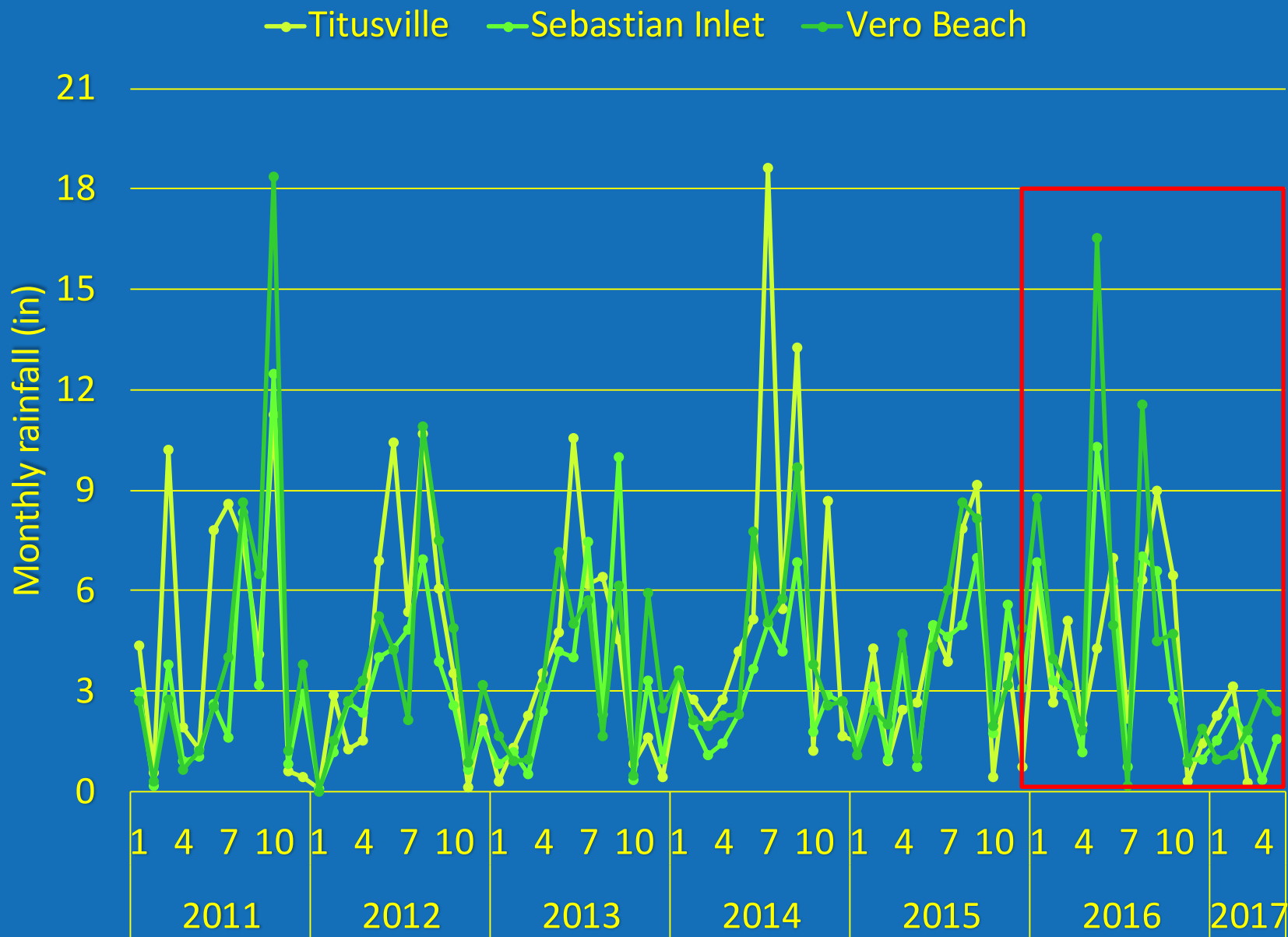
Water quality



St. Johns River Water Management District

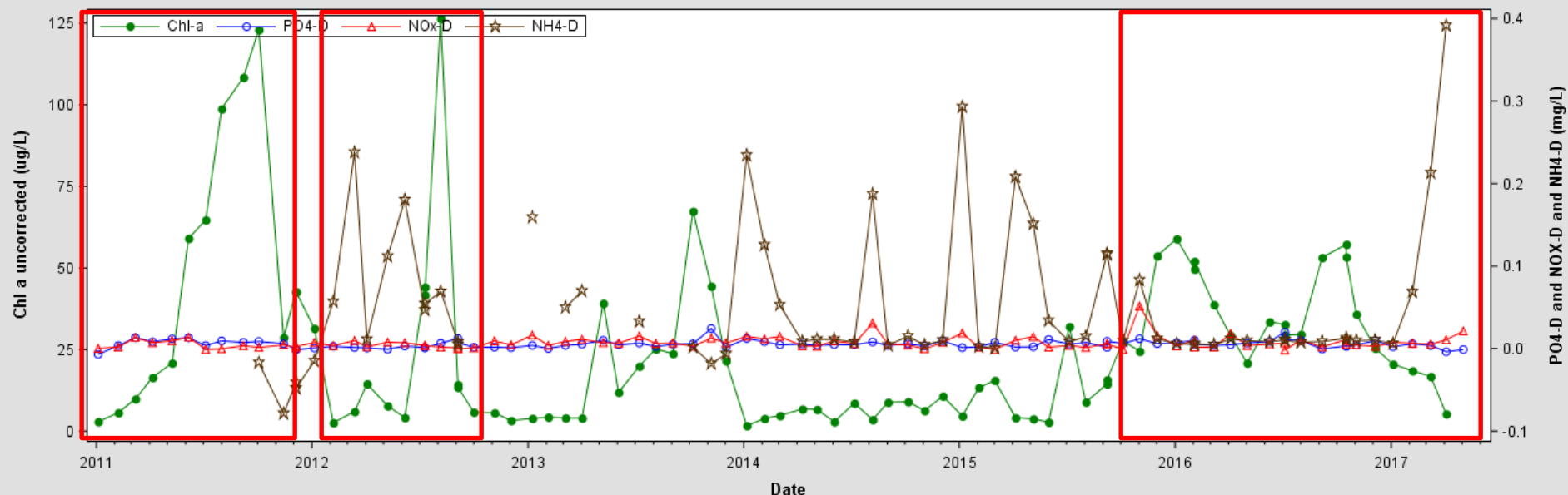


St. Johns River Water Management District

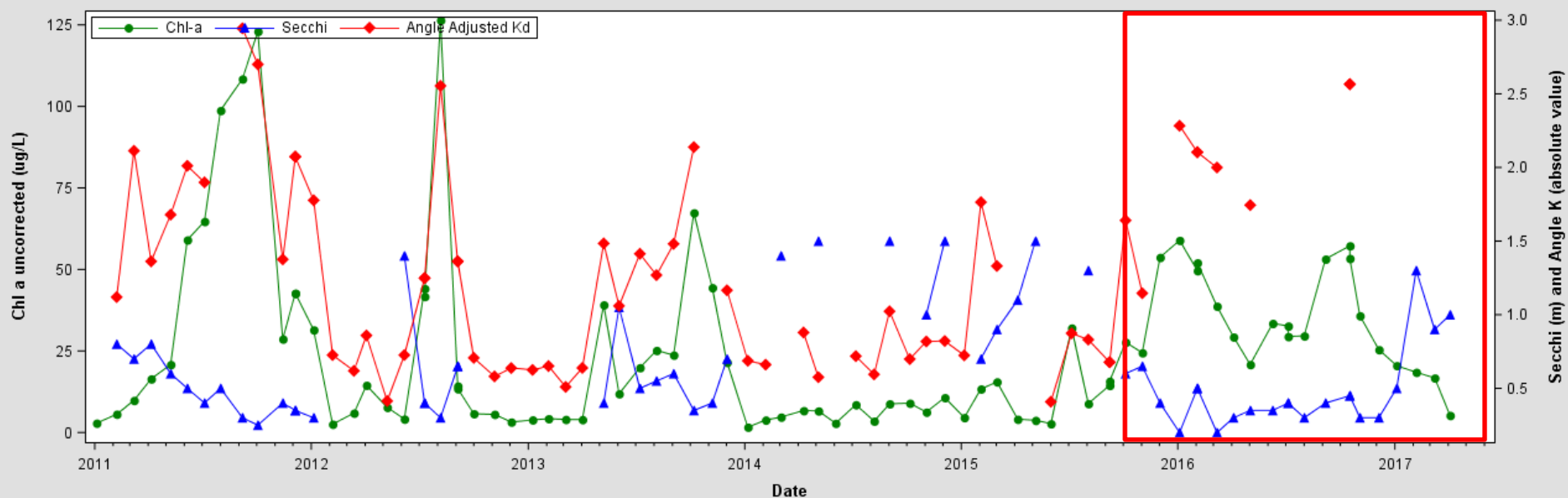


St. Johns River Water Management District

Station IRLI06



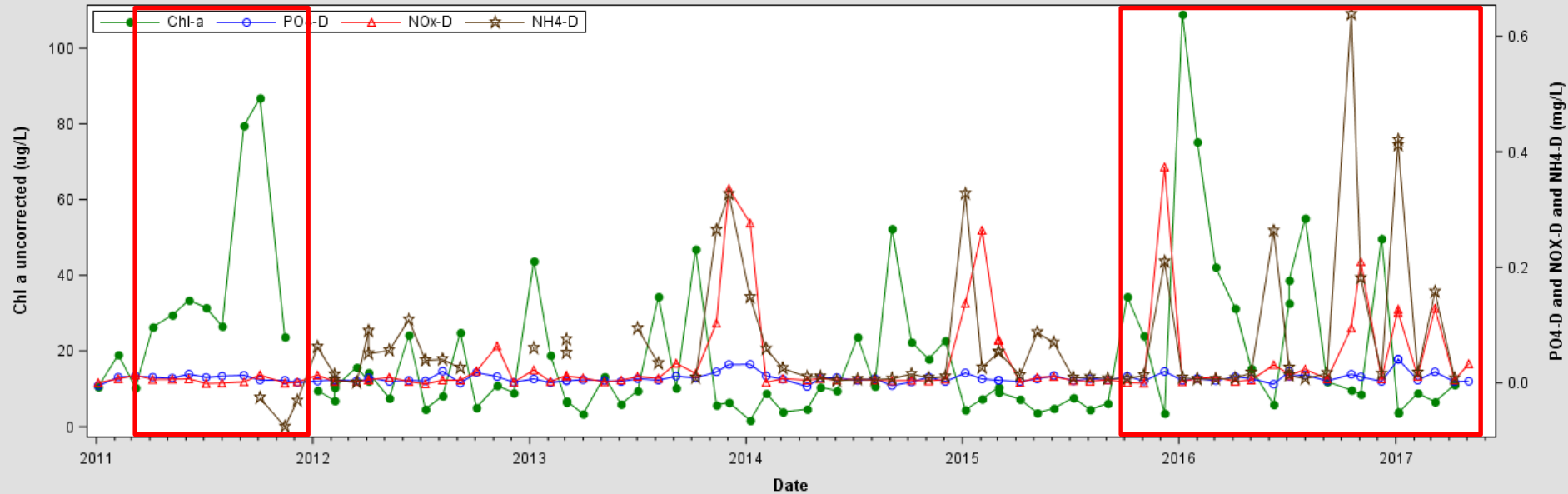
Station IRLI06



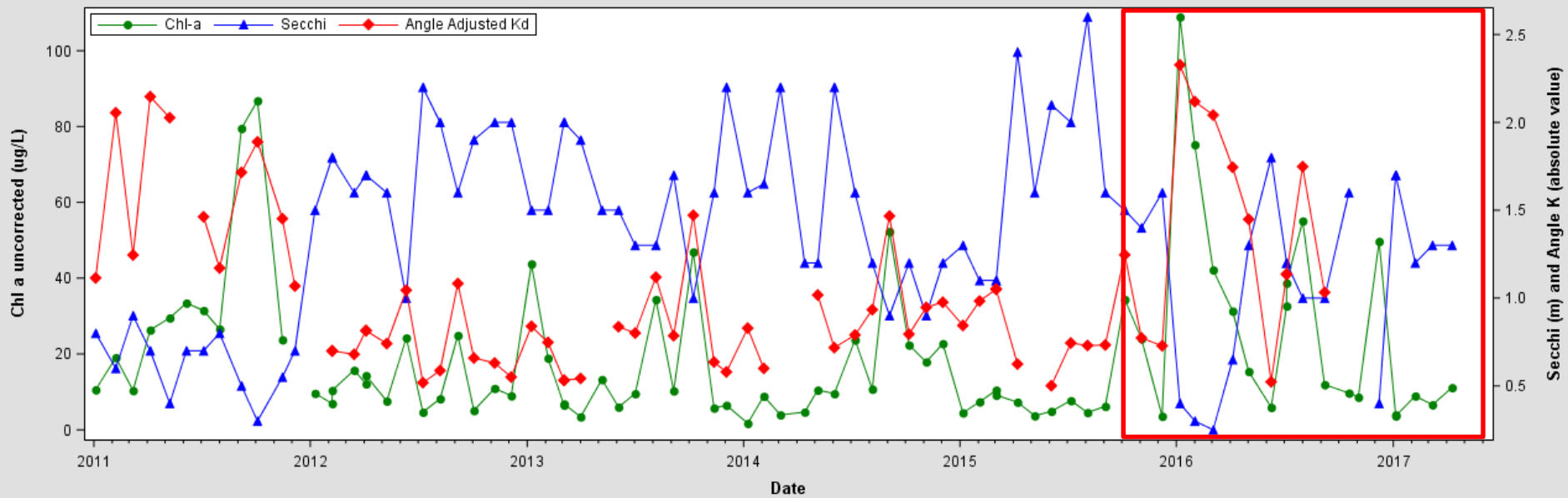
Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
 Stations selected where LAST_SAMPLE > '01SEP2016'D

St. Johns River Water Management District

Station IRL15



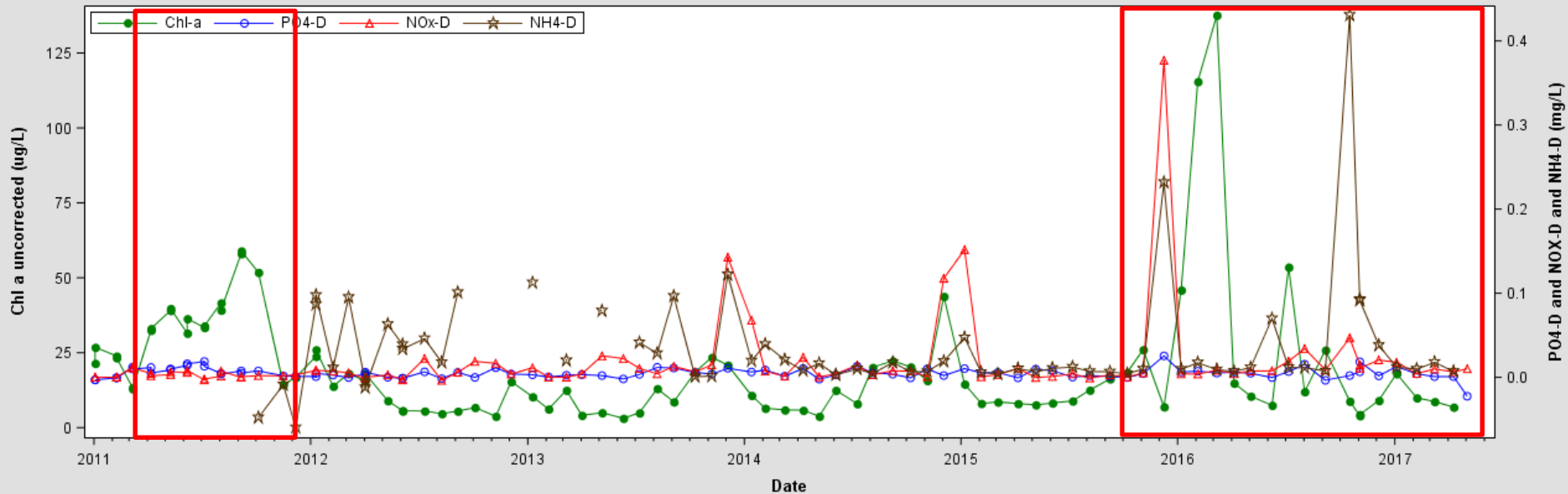
Station IRL15



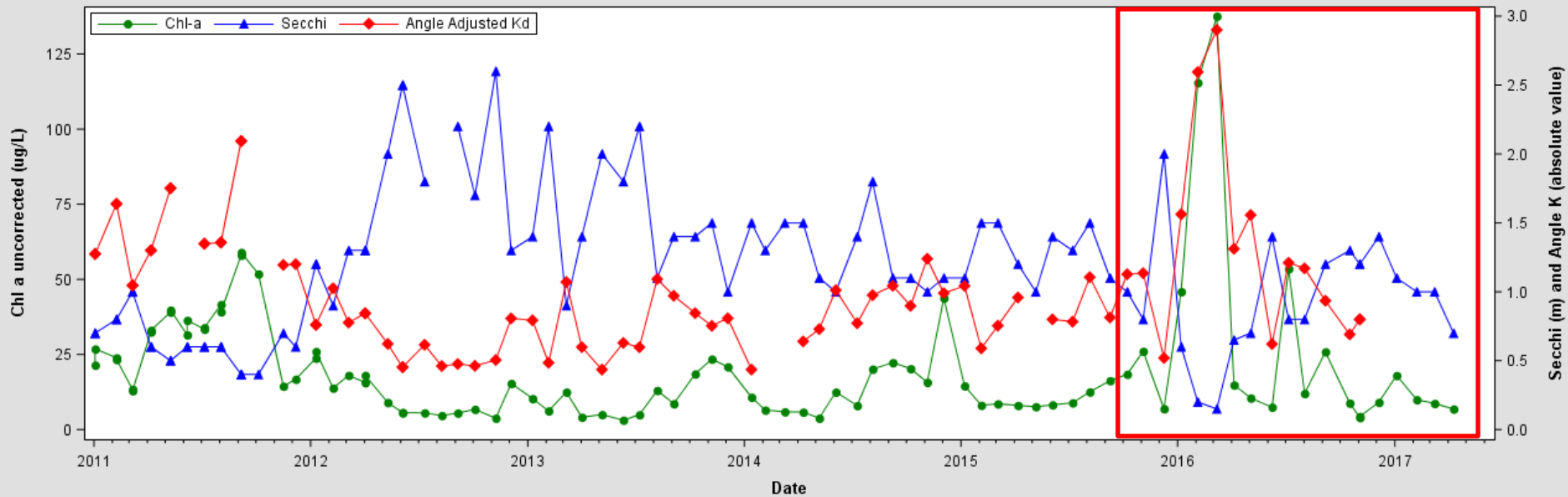
Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
 Stations selected where LAST_SAMPLE > 01SEP2016'D

St. Johns River Water Management District

Station IRLB06



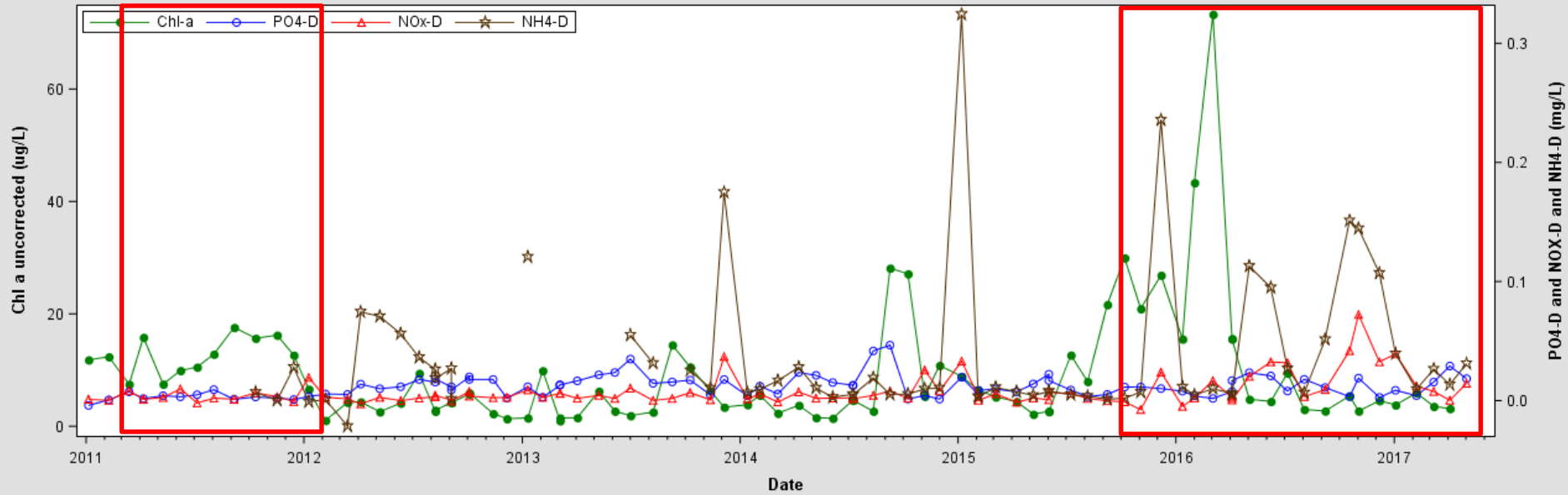
Station IRLB06



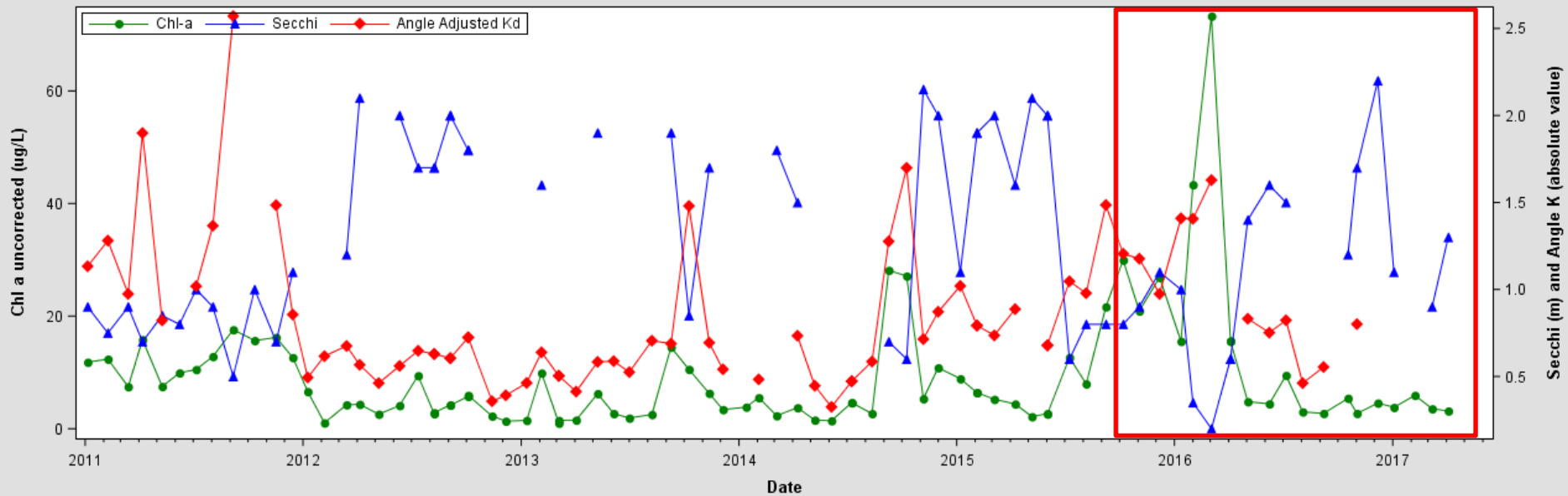
Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
 Stations selected where LAST_SAMPLE > 01SEP2016'D

St. Johns River Water Management District

Station IRLI26



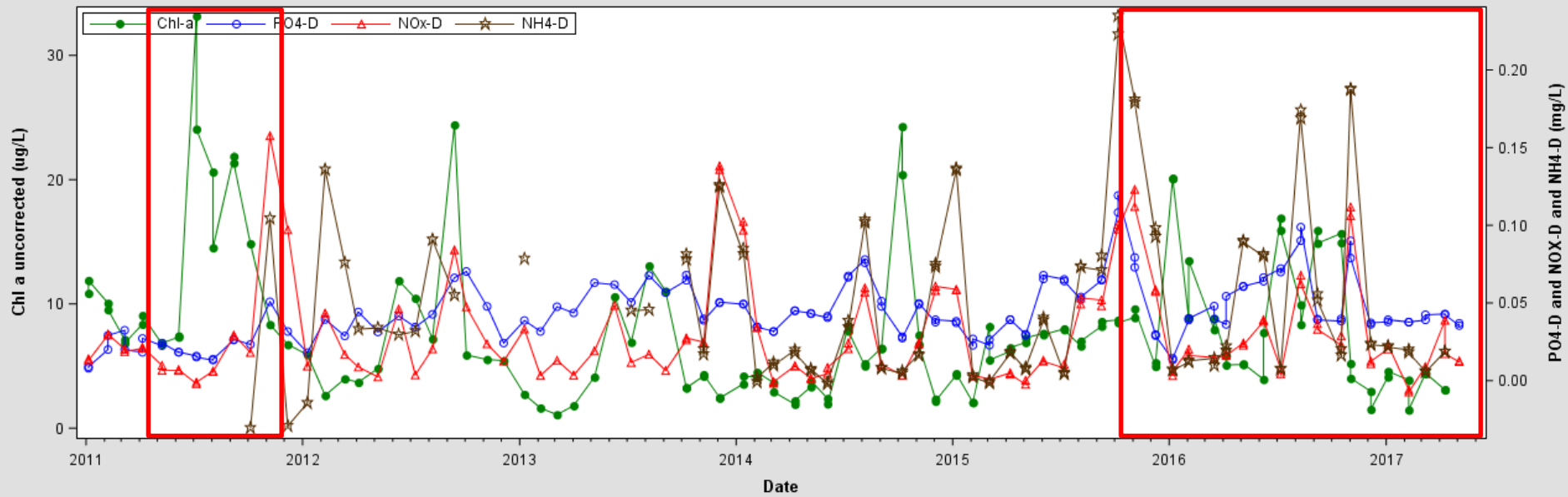
Station IRLI26



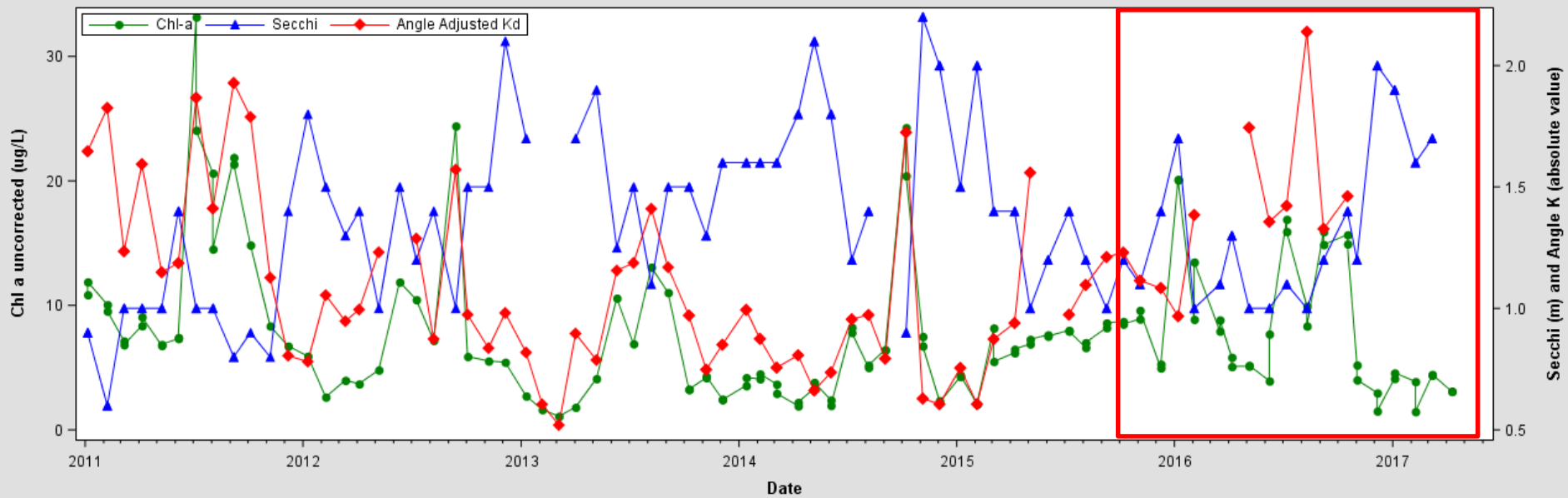
Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
 Stations selected where LAST_SAMPLE > 01SEP2016'D

St. Johns River Water Management District

Station IRLIRJ05



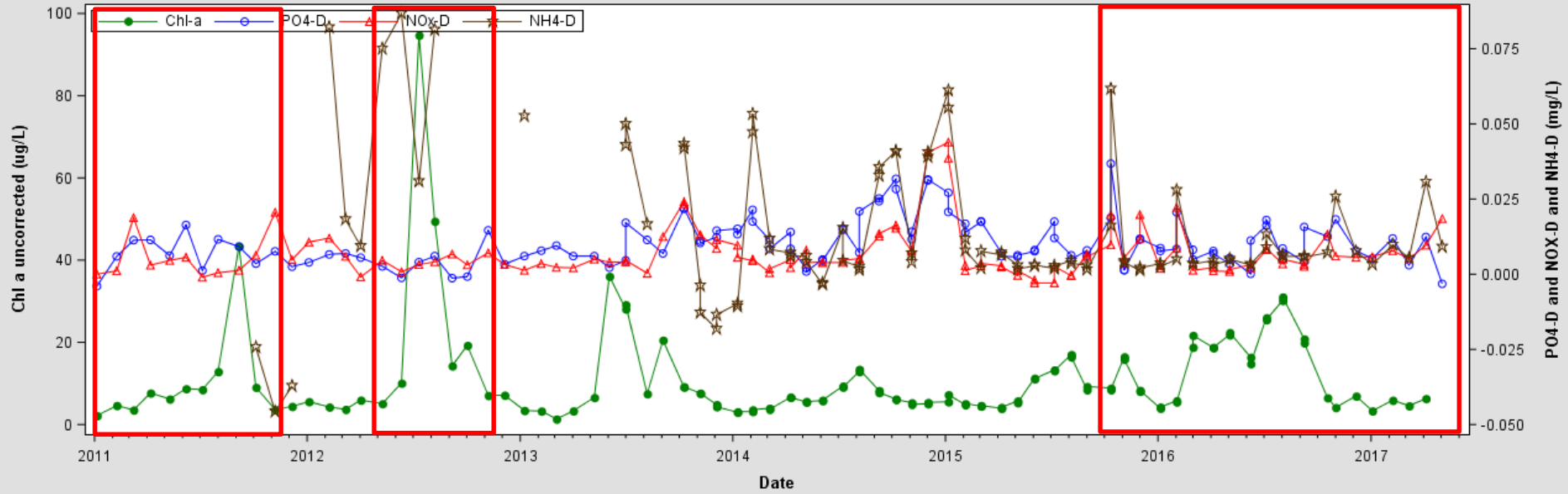
Station IRLIRJ05



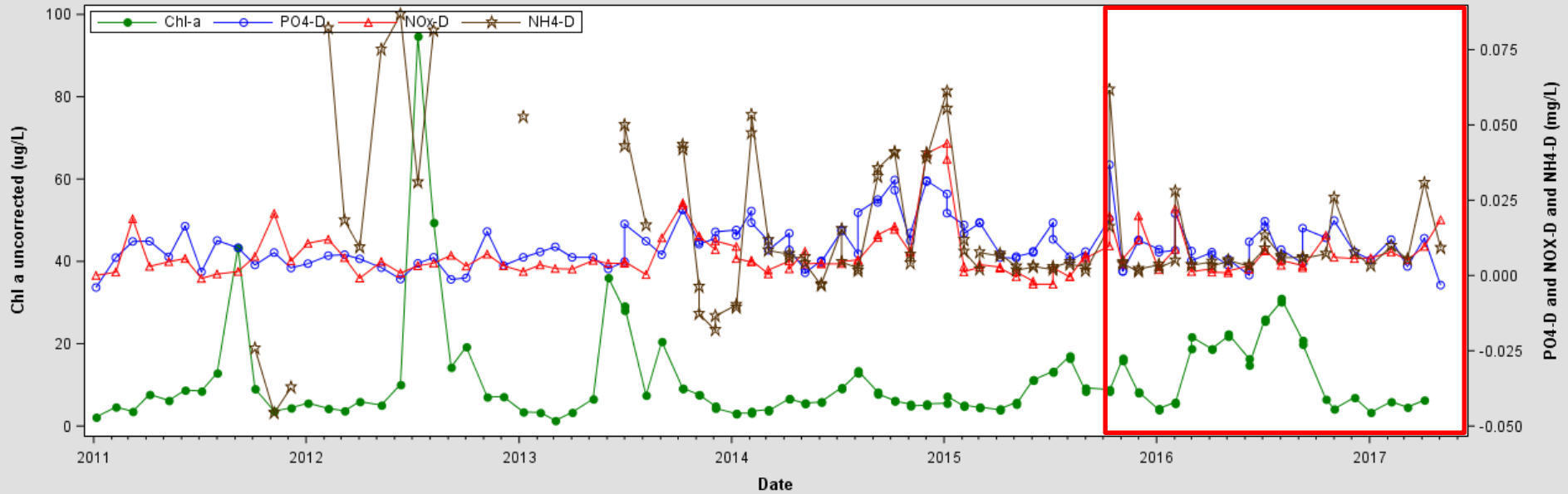
Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
 Stations selected where LAST_SAMPLE > 01SEP2016'D

St. Johns River Water Management District

Station IRLV05



Station IRLV05



Provisional and Final Surface data from 01JAN2011 to 01JUN2017 run on 15MAY17
Stations selected where LAST_SAMPLE > 01SEP2016'D

Information needs



6.5 RESEARCH PRIORITIES

During the BMAP process, the stakeholders identified several research priorities they would like to pursue, if funding becomes available. The Indian River Lagoon 2011 Superbloom Plan of Investigation addresses or complements a number of the listed priorities. These research topics include:

- *Collecting data to update the bathymetry for the IRL Basin, which would be used in the seagrass depth limit evaluations.*
- *Continuing and increasing the frequency of the monitoring along the existing seagrass transects to track seagrass composition, density, and extent.*
- *Implementing phytoplankton, drift algae, and macroalgae monitoring in the basin.*
- *Tracking watershed loads by monitoring inflow and outflow nutrient concentrations for each jurisdiction.*
- *Verifying the BMP effectiveness values used in the BMAP, as needed.*
- *Testing/verifying the TN, TP, and seagrass depth regression equations using the seagrass data collected since 1999.*
- *Collecting ground water load contribution data and conducting ground water modeling.*

During the first iteration of the BMAP, the stakeholders will work with FDEP and IRL NEP to identify other research needs, prioritize the efforts, and develop scopes of work to address each research priority. This information will be organized in a more detailed research plan that would be used to guide future efforts, as funding becomes available. These research projects are not BMAP requirements, but would provide valuable information for future assessments of the health of the BRL.