**OOSC Recommendation to NSF**
**October 15, 2014**

**Summary**
- Need assessment of data quality and availability in January 2015 to plan 2015 user workshops
- Create ad-hoc expert group to help Rutgers CI group address issues of certain sensors and help with data assessment.
- Organize a January 2015 mini-workshop addressing certain sensors, and data availability for future user workshops

**Background**

The Ocean Observing Initiative (OOI) is in the final stages of construction and data is starting to flow. As with any large project with hundreds of sensors at locations all over the global ocean there are emerging issues with data quality and availability. OOSC has identified a need to assess the overall data flow from OOI and several sensor systems that require immediate attention.

The Ocean Observing Science Committee (OOSC) recommends the Cyber Infrastructure (CI) group at Rutgers University form an interim/ad hoc expert group and organize a mini-workshop to provide guidance to the OOI CI group at Rutgers University, the UNOLS Ocean Observing Science Committee and the National Science Foundation on data availability, data quality and data assurance of the OOI system in general and some specific sensors.

The OOSC would like to work with NSF and Rutgers to facilitate user workshops during the late spring/summer of 2015 but this can only be done if data are available to attendees. The recommended January 2015 mini-workshop and the ad-hoc expert group would help determine when a user workshop can be scheduled and identify any critical areas needing attention.

**The ad-hoc expert group** – OOSC recommends that the adhoc expert group be formed as soon as possible.

The expert group would have the following tasks
- Assist in data reviews
- Assist determining when data flow will be adequate for a user workshop
- Share Standard Operating Practices
- Provide advice to OOI Builders
- Contribute to and review training documents
- Come to Rutgers to provide training (1-2 days) to OOI data evaluators

The sensors systems they would assess are:
- ECO puck
- Oxygen Optodes
- Velocity Profiler for mobile assets, short range (ADCPA)
- Photosynthetically Available Radiation (PARAD)

<u>Time Commitment of Expert Group</u> – Six to 12 months.  Most interactions will be by phone, email, and web-conference. More importantly the experts must be willing to provide comments for review on a five-day turn around. A small workshop for this group to meet with OOI data evaluators, the CI team and OOSC should be held in January 2015.

**Mini-Workshop**

We recommend that Rutgers CI team host a mini-workshop with the expert team and OOSC members. The goals of the mini-workshop are
- One on one interaction of the expert group and CI team including data evaluators
- Assessment of the critical sensors identified
- Determination of when user workshops can be held