

### Post Cruise Assessment Report Information

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### Cruise Information

**Ship:** Oceanus

**Area of Operations:** NP09

**Cruise Dates:** 12/6/2016 - 12/7/2016

**Chief Scientist:** Miguel A. Goni, OSU-CEOAS

**Cruise Number:** OC1612A

### PIs and Funding Agencies:

**PI:** Miguel A. Goni, OSU-CEOAS

**Funding Agency:** NSF/OCE/CO

**Type of Work:** Winter Carbon Cycle

**Grant #:** 1459480

### Ship Personnel

**Master:** Ron Short

**Marine Technician:** Andrew Woogen

### Completer's Information:

**Person's Name:** Prof. Miguel A Goni

**Position on this cruise:** PI/Chief Scientist

**Institution:** College of Earth, Ocean, and  
Atmospheric Sciences

### Assessment:

1. To what extent were the planned science objectives of this cruise met?

**rating:** 71%-80%

**comment:**

Cruise objectives were to complete CTD casts, microscale profiling, hyperpro profiling and surface underway data and sample collection along two transects off Newport and Umpqua River. Because of weather we were unable to sail down to the Umpqua and complete the work along that transect. However, we were % successful in completing the work off the Newport Hydrographic transect. The only item we did not accomplish was to download data from one of the OOI moorings located south of the Newport transect. Again, we were unable to do that because of weather.

2. Rate how well the science party contributed to achieving the scientific objectives of this cruise (pre-cruise planning, communication, adequate personnel, equipment, attention to safety, organization, etc.).

**rating:** Excellent

**comment:**

As with previous cruises, we had a great science party who were able to work under challenging weather conditions safely.

3. Rate how well ship operator pre-cruise activities (planning, coordination, and logistics) and shore support contributed to achieving the scientific objectives of this cruise.

**rating:** Excellent

**comment:**

As with previous cruises, shipops was outstanding in working with us to prepare and load all the required equipment and gear, check ship instruments and provide the communications and flexibility required to work under challenging weather conditions in the winter.

4. Rate how well the ship operator supplied scientific equipment and marine technicians supported this cruise (appropriate equipment, equipment operational and ready for cruise, calibrations, documentation, technicians trained and familiar with equipment).

**rating:** Excellent

**comment:**

see comment above

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5. Rate how well the scheduling of this cruise supported achieving the scientific objectives of this cruise (appropriate ship, year, season & dates, communications regarding schedules, online systems and scheduling process).

**rating:** Excellent

**ship requested:** Oceanus

**comment:**

see comments above

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6. Rate the level of safety in shipboard and science operations (safety briefing and instructions, procedures & equipment).

**rating:** Excellent

**comment:**

As usual, shipboard operations were discussed ahead of conducting them. Ship personnel discussed and trained students in deployment and recovery of equipment.

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7. Rate how well the officers and crew and the manner in which the research vessel was operated contributed to achieving the scientific objectives of this cruise (communications, ship handling, deck procedures, attitude towards the science objectives, training, adequate number of crew, shipboard routine, etc.).

**rating:** Excellent

**comment:**

Captain and crew of the Oceanus were outstanding - a usual - in working with science crew to achieve the objectives of the cruise under challenging weather conditions.

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8. Rate how well the research vessel and its installed equipment contributed to achieving the scientific objectives of this cruise (material condition, readiness, living conditions and habitability, condition of lab spaces, design, layout, deck equipment, winches, cranes, frames, propulsion, power, etc.).

**rating:** Very Good

**comment:**

Although showing her age, the Oceanus is a great vessel that is well maintained and allows us to achieve our objectives. Martechs and crew are outstanding at keeping all parts of the vessel in top working condition and will be working during the following weeks to re-desing and re-fit the interior lab - benches, cabinets, etc, which work well but are showing their age.

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**9. Number of science days lost:**

due to weather: 3.00

due to ship equipment:

due to ship science equipment:

due to user science equipment:

**comment:**

After completing the Newport Hydrographic transect on first two days, weather conditions and forecast showed increasingly inclement weather that compromised the transit and work in the Umpqua transect south of Newport. Upon consultation with the captain, we decided to come back into port and scrap the Umpqua work. Consultations with Stewart Lamerdin indicate we will be able to make up those lost days in the next cruise in January.

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