

Pre-Cruise Meeting 1100 Eastern Time, June 26, 2015

Cruise:

AT30-01 / Robert Weller, OOI IRMINGER SEA. August 5 to Sept 1, 2015.

Vessel: RV Atlantis

### **General Program Overview:**

1. Scientific Objectives:

To carry out the recovery and redeployment of the NSF Ocean Observatories Initiative (OOI) Irminger Sea Array, servicing four moorings and up to five gliders. The platforms will carry multidisciplinary instrumentation and provide the capability for real time communication of data and control of sampling. A surface mooring will instrument the sea surface and upper ocean, capturing the surface forcing and upper ocean variability. A profiling mooring will measure through the water column. Two additional taut subsurface moorings and the gliders will complete the capabilities to obtain vertical profiles and sample the mesoscale (10s to 100 km) variability at the site.

Activities:

The following activities are planned:

- 1) Validate the bathymetry of the site to check the planned positions for the four moorings of the second deployment;
- 2) Deploy the four new moorings;
- 3) Recover the four moorings deployed in 2014;
- 4) Deploy up to three gliders in support of horizontal and vertical sampling in and around the array;
- 5) Recover the glider deployed in 2014; and
- 6) Carry out shipboard sampling in support of calibration and validation of the deployed sensors on the moorings and gliders and to add to knowledge of the site.

2. Identify other PIs associated with the cruise:

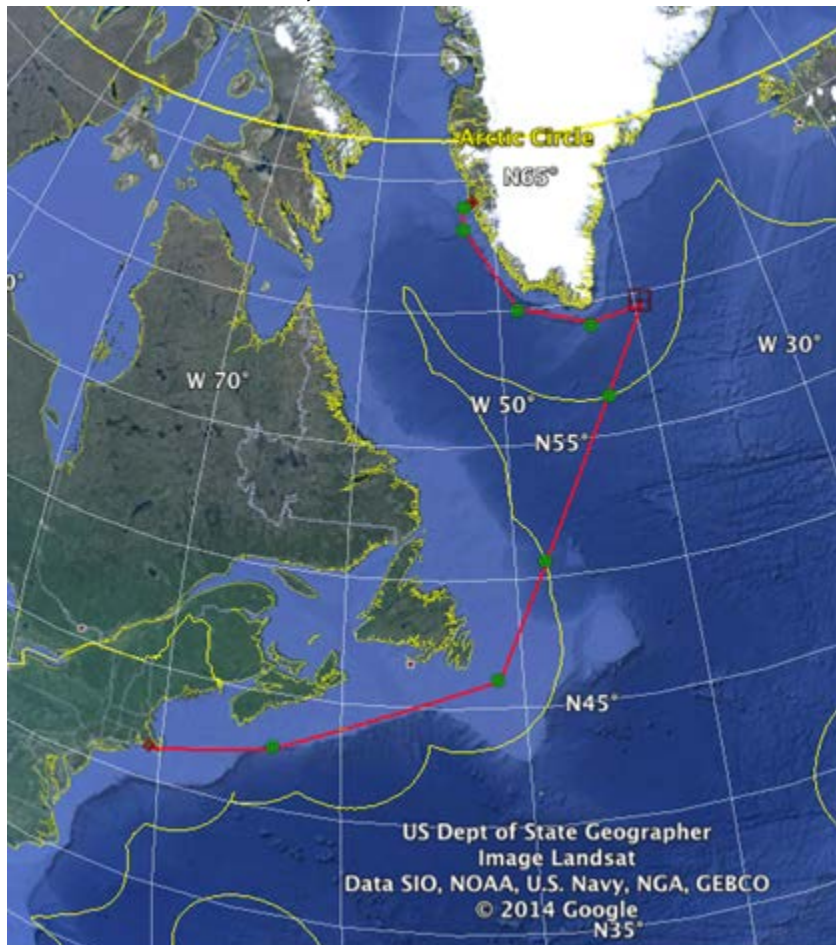
Bob Weller

3. Identify the at-sea Chief Scientist:

Bob Weller

4. Identify operating area (See cruise synopsis for details):

59° 52' North, 39° 30' West



Depth range; 2600 - 2800 meters

5. Voyage Dates and Leg #: **Aug 5 to Sept 1 2015 / AT30-01**

- Start Port: WHOI
- End Port: Nuuk
- Mobe: Aug 3 & 4
- Move aboard date Aug 4
- Demobe Nuuk: Sept 1 and 2 (shift OOI equip. off main deck)

- Science moves off Sept 1.
- REMOVE NUUK Sept 25 & 26
- WHOI demobe: Oct 4 & 5 (ETA Oct 4).
- Shore crane req. for mobes and demobes.
- US Customs forms due to Eric by Aug 3rd.

6. Science party (size) –  
(32 bunks available for science party)

**Pre-cruise and Administrative:**

1. **Diplomatic clearance** requirements for operations in EEZs:  
Greenland (Denmark) – applied 2/20/15
2. **Financial responsibility:** PN#  
(For port / loading & logistical expenses)
3. **Personnel forms** (Passports, Drivers License, Visas, Entry Fees)
  - Personnel forms req. 1 month prior to cruise.
  - We will need list for foreign collaborators if any.
4. Any Special Food Requirements (Gluten Free, Vegetarian, Kosher, etc.)
5. **Berthing Plan** - 1 week prior to mobilization;  
<http://www.who.edu/page.do?pid=822>
6. Lab Layout plan:  
<http://www.who.edu/main/ships/atlantis/lab-science-spaces>

**RV ATLANTIS Instrumentation & Technician Support**  
**[Installed Scientific Equipment]**

1. General Duties of Marine Technicians (SSSG techs). Each tech works a 12 hr shift. Techs will train science team w/ CTD deployments & recoveries.
2. SSSG Technicians on cruise: **Dave Sims, Tina Thomas**
3. WHOI general use equipment required for cruise [***Installed Scientific Equipment***]:
  - A. CTD rosette w/ dual T/C Sensors
    - Underwater Par 1000m, SBE O2 sensor, Wet Labs Fluorometer, Wet Labs FLNTURTD. ECO-AFL Fluorometer, STM Turbidity sensor.
  - B. Di H2O – how much / day?
  - C. 3.5 & 12 kHz Bathy
  - D. ADCP 75kHz
  - E. ADCP 300kHz
  - F. Sippican XBT Sys
  - G. Multibeam EM 122 - generate maps?
  - H. 12 kHz Pinger for wire use
  - I. O2 Titration – Dave Wellwood tech w/ sample bottles
  - J. Salinometer – Dave Wellwood tech (w/ 2 cases bottles).
  - K. Fume Hood
  - L. High Seas Net – normal activity
  - M. Navigation position / heading readouts.
  - N. Met Sensors – **all**.
  - O. Sample storage - 3.2 c/ft 070 freezers.
  - P. Stern plate guard
  - Q. Effer Crane (port qtr)

**Science Party Supplied Equipment:**

- A. TSE mooring winch (Winch Pool back up winch)
- B. Lebus traction winch & spooler (primary winch)
- C. 1 - 20 foot rag top van (16,000 lbs) – 01 deck
- D. 1 - 20 foot Van (21,000 lbs) – 01 deck

- E. Tip Plate
- F. Gliders – 3
- G. Anchor stacks - #

**Ship [Other Requirements] [Shipboard Equipment/Nav]**

1. Science / Ship Operations
  - a. Instrument Deployment / Recovery Procedures:  
CTD ops, Mooring Ops, Glider Ops
  - b. Overboarding Equipment: (ISM)
  - c. Vans: **2 vans to 01 deck**
  - d. **(Craig Lee gear 02 deck?)**
  - e. Hazards: [weight, bulk, chemical, pres.] Types?  
Lithium batteries  
Compressed nitrogen  
Small amounts solvents, cleaners, paints  
Gasoline {?}
  - f. Night Operations: **YES. Glider & CTD ops at night.**
2. Deck Safety – Safety Shoes ( X ), Experience ( X )
  - a. Science personnel have Training/Experience to operate/deploy gear
3. Lab Safety – PPE ( X ), Lab Training ( X )
4. Hazardous Material- Please Fill out HAZMAT INVENTORY FORM

<http://www.whoi.edu/sbl/liteSite.do?litesiteid=7092&articleid=10875>

- a. Chemicals & Compressed Gases?
  - i. Inventory Form
  - ii. Spill Kit
  - iii. Loading and waste removal logistics
- b. Isotope Use **[Isotope Use Approval]** – none req.

<http://ehs.whoi.edu/ehs/DesktopDefault.aspx?tabindex=2&tabid=5&itemID=543>

5. Policies: (speed, departure/arrival times, moving aboard, etc
6. Ship Navigation
7. Communication (voice, fax, e-mail)
8. Equipment
  - a. Cranes ( X )
  - b. Oceanographic winches: Hydro ( ), Trawl (X),
  - c. CTD ( X )
  - d. Electrical power (X)

**Logistics:**

PLEASE COPY ERIC BENWAY ON ALL COMMUNICATIONS WITH OUR  
AGENTS

**WHOI Agent:**

Master R/V *ATLANTIS*

Attn: *Scientist's Name* – Voy: AT30-01

c/o WHOI

266 Woods Hole Rd.

Woods Hole, MA 02543

Contact: Eric Benway

Phone: (508) 289-3770

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Email: [ebenway@whoi.edu](mailto:ebenway@whoi.edu)

**Greenland (Nuuk)**

Master R/V *ATLANTIS*

Attn: Scientist Name; Voy: AT30-01

c/o Royal Arctic Logistics

Aqqusinersauq 52, PO Box 1629

3900 Nuuk

Greenland

Contact: Gorm Diernisse

Contact: John Kjaer

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Cell: 299 523818, 24/h cell 299 555650  
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Note: Agent and WHOI contacts should be copied on all communications. It is requested that shipment information of any equipment be communicated to the Agent and WHOI contacts

**Post-Cruise:**

1. Actions departing ship. **LABELING** all items left behind and properly packed. Please make arrangements with Eric Benway prior to leaving items on board.
2. UNOLS cruise evaluation [Chief Scientist & Master] – UNOLS PCA.
3. Reports to foreign government/State Department [required for work in EEZs]- Preliminary Report for Denmark.
4. Data delivery [shipboard underway data].
5. Data archiving policy:

All data on a WHOI Cruise Data Distribution (which includes all underway data) will, by default be considered publicly available once a copy of it has been delivered to the chief scientist at the end of the cruise. Please review the [Cruise Assignment of Data Access Protection](#)