**AT39-03 R/V Atlantis**

Pre-Cruise Meeting: Wednesday 7/19/17

Port Office

Agenda Items

**Mission Objectives:**

1) Recover the Argentine Basin Surface Mooring, GA01SUMO-00003

2) Recover the Argentine Basin Profiler Mooring, GA02HYPM-00003

3) Recover the Argentine Basin Profiler Mooring, GA02HYPM-00002

4) Recover the Argentine Basin Flanking Mooring A, GA03FLMA-00003

5) Recover the Argentine Basin Flanking Mooring B, GA03FLMB-00003

6) Recover glider (#364) that is adrift

7) Conduct ship vs buoy meteorological comparisons at the Surface Mooring sites.

8) Conduct CTD casts with water sampling at the recovery sites, including glider (except GA02HYPM-00002 to avoid entanglement with broken mooring).

9) Ancillary projects include the deployments of 8 Argo floats and 2 drifters. Launch locations are TBD at the time of this writing, but are not to impact the work for OOI.

**Science Activities**

Five mooring ops (4 subsurface, one surface). Moorings are full depth (~5,200 m). One subsurface mooring has failed and dragging ops may be needed.

Acoustic communications will be important to establish status of moorings by talking to acoustic releases and to instruments on the mooring line at each mooring.

CTD casts with water samples will be done at each mooring (except failed one) to establish validation/calibration of subsurface instruments prior to recovery. One CTD cast will go down to ~5000m.

Comparison between meteorological and oceanographic (ADCP, TSG, CO2, fluorometer, etc) measurements from the ship and the surface buoy (SUMO 3). Will require ship to hove to 1/2 nm downwind of buoy for ~ 24 hours.

Recovery of glider that drifted away from OOI mooring array. CTD cast prior to recovery is desired.

Launching 8 Argo floats during transit.

Launching 2 surface drifters during transit.

**Agenda Items:**

* 1. Chief Scientist:

Sebastien Bigorre: Chief Scientist

Woods Hole Oceanographic Institution Clark 210A, MS#29 Woods Hole, Ma. USA 02543 +1 508 289 2686 sbigorre@whoi.edu

* 1. Identify operating area:

Argentine Basin

Lat/Lon: 42° 0.0′ S / 42° 0.0′ W

Depth Range: 3000 / 5200

1. Voyage Info:

Nov21 22 - 23: Mobe onto RV Atlantis

 Nov 24 - Dec 11: Arg. Basin cruise

 Dec 12 - 13: Demobe RV Atlantis

1. Schedule Notes:

Science Personnel can move into their rooms Nov 23

1. Science party (size) : 8-11

**Pre-cruise and Administrative:**

1. Financial responsibility: WHOI Project Number

1. Personnel forms due: to kray@whoi.edu

\*Forms should be kept confidential, and sent only to the address specified

New forms not needed if participant has been to sea on WHOI ships recently

1. Berthing Plan: Complete and remit to ecaporelli@whoi.edu

1. Any Special Food Requirements? (Kosher, Allergy, Vegetarian, etc)

**Scientific Support**

* 1. **General Duties of Marine Technician :**

SSSG Technicians (WHOI SSSG) Alison Heater, Catie Graver

**Please Note:** WHOI sssg techs are not watch standers, and are not part of the science party. If specialized/dedicated techs are required to run operations or equipment, they must be added to your science party.

* 1. **WHOI general use equipment required for cruise:**

**Shipboard Equipment**

12 kHz Pinger for Wire Use

ADCP 75 kHz

Bathymetry System 12 kHz

Bathymetry System 3.5 kHz

Deionized Water System

Multibeam

Navigation - Heading

Navigation - Position

Science Underway Seawater System

Sippican XBT System (Mark 21)

**Shipboard Communication**

Basic Internet access via HiSeasNet

**CTD/Water Sampling**

911+ Rosette 24-position, 10-liter bottle Rosette with dual T/C sensors

Biospherical underwater PAR (1000m depth limit) with reference Surface PAR

SBE43 oxygen sensor

Wet Labs C\*Star transmissometer (660nm wavelength)

Wet Labs ECO-AFL fluorometer

Wet Labs FLNTURTD Combination Flourometer and Turbidity Sensor

Science Party will work with D. Wellwood to bring Titrator and Salinometer

**MET Sensors**

Barometric Pressure

Air temperature

Relative Humidity

Wind speed and direction

Short Wave Solar Radiation

**Sample Storage**

Climate Controlled Walk-in Freezer -70°C 3.2 cu. ft. ea.

Freezer -70°C 25 cu. ft.

**Winches**

CTD Winch with .322" Electro-mechanical wire

Mooring / TSE winch

Other Portable Winch

Trawl Winch with 9/16th trawl wire

Winch Notes: Other portable winch is OOI LEBUS winch. This has been on Atlantis before.

TSE is back up winch.

**Wire use and application**

CTD Winch with .322" Electro-mechanical wire

Trawl Winch with 9/16th trawl wire

Winch Notes: 9/16" wire for dragging only. - IF needed

**Shipboard Administrative Items*:***

1. Science/Ship Operations ***:***
	1. Instrument Deployment / Recovery Procedures:
	2. Over boarding Equipment (ISM)
	3. Vans: 3 – Rigging van, Ragtop, Storage
	4. Night Operations: Yes
	5. Small Boat Operations: no only if needed for Glider recovery or issues

1. Deck Safety – Safety Shoes

1. Lab Safety – PPE

1. Hazardous Material**:** Yes
	* Radiological: No

Please Submit MSDS electronically to R/V Atlantis Chief Mate. chmate@atlantis.whoi.edu

1. Policies: (speed, departure/arrival times, moving aboard, etc.)

11kts Ship Departs in the morning on day of departure and arrives in the morning on day of arrival.

1. Communication (voice, fax, e-mail, Blog)

**Logistics *[Notes]***

**1.** Shipping gear to and from vessel

Load list

1. Customs 4455 Forms

1. Is this cruise or any equipment on board Classified, Secret or considered sensitive by the Federal Government?

1. Berthing plan:

24 bunks available

**Shipping:**

Ample time should be scheduled for shipping to Uruguay and clearing gear to be loaded onto the ship. The following should be considered when shipping:

* Avoid shipping hazmat if possible and load in US port
* Check with the agent if there are restrictions with shipping household items, clothing or publications before shipping.
* Ensure your gear arrives 2 weeks prior to the mobilization date with additional time needed for holiday periods.
* Properly fill out all customs paperwork and work with your shipping department/shipper to confirm all manifests and documents are completed.
* Work with a professional shipping department or freight forwarder

Address in Montevideo and Barbados:

-Please confirm shipping address with Port Office and local agent before shipping containers and airshipments.

Master R/V Atlantis

Attn: Sebastien Bigorre

IN TRANSIT

**Post-Cruise**:

1. Actions departing ship (Clean rooms, remove items from chemical van)

1. UNOLS cruise evaluation [Chief Scientist & Master]

1. Reports to foreign government/State Department [required for work in EEZs]

1. Data delivery [shipboard] USB Hard drive.

1. 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](http://www.sssg.whoi.edu/sssg/pdf/cruiseData_v3.pdf)

[Assignment of Data Access Protection](http://www.sssg.whoi.edu/sssg/pdf/cruiseData_v3.pdf)

As of January 1, 2011, the default treatment for underway data from Woods Hole Oceanographic Institution (WHOI) research vessels is:

1. Cruise data files are copied by a WHOI SSSG Technician to the distribution media. One copy is delivered to the cruise Chief Scientist, the other is delivered to WHOI's Data Library and Archives. Please note that the distribution of cruise data to other scientist is the responsibility of the Chief Scientist.
2. The **default** access status for the cruise instrument datasets is that they will be immediately accessible by the public. If something other than this default protection is desired, the Chief Scientist must assign alternate protection as indicated below. For cruises funded by the National Science Foundation ,the maximum protection is two years, for non-NFS cruises, other guidelines may apply.
3. WHOI maintains a local copy of the cruise shipboard data distribution at its Data Library and Archives, which also honors access moratorium periods. If the cruise Chief Scientist wishes to modify the data protection assignments made in this pre-cruise document upon cruise completion, they should contact the

WHOI Data Library and Archives at dla@whoi.edu, or the SSSG Data Manager at sssgdatamgr@whoi.edu