

UNOLS Pooled Technical Resources and Planning Required for Their Use

Chief Scientist Training Cruise

10 June 2014

Bermuda Institute of Ocean Sciences

UNOLS

Pooled Technical Resources

- Info on the UNOLS Equipment Inventory and Equipment Pools can be found straight from the UNOLS homepage:

www.unols.org

The image shows a screenshot of the UNOLS homepage. At the top left is a photograph of a research vessel. In the center is a logo featuring a globe with a ship and the text "University-National Oceanographic Laboratory System". On the right side, contact information for the UNOLS Office is provided. Below the main content area is a navigation bar with several links: "Research Vessel & Facility Information", "About UNOLS", "Committees", "Meeting Calendar & Information", and "Publications & Reports". The "Research Vessel & Facility Information" link is circled in red. Below the navigation bar is a search box labeled "UNOLS quick navigator" with a "Go" button. A red arrow points from the word "OR" to the search box, and another red arrow points from the search box to the "Research Vessel & Facility Information" link.

UNOLS Office
Graduate School of Oceanography/URI - Box 32
Ocean Science and Exploration Center
215 South Ferry Road
Narragansett, RI 02882
Phone: (401) 874-6825
Fax: (401) 874-6167

Research Vessel & Facility Information

About UNOLS

Committees

Meeting Calendar & Information

Publications & Reports

OR

--- UNOLS quick navigator --- Go



University-National Oceanographic Laboratory System

**UNOLS
Homepage**

**Research Vessel &
Facility Information**

**UNOLS Public
Outreach Resources**

**About
UNOLS**

Jobs/Personnel

**UNOLS
Committees**

**UNOLS Office
Feedback Form**

**Meeting Calendar
& Information**

**Site Map &
Search**

**Publications &
Reports**

**UNOLS Office
Contact Information**

Go to the [Shiptime Request System](#)

FOR SHIP SCHEDULERS	FOR SHIP USERS	FOR AIRCRAFT USERS	PUBLIC INFORMATION
Log on to ship scheduling system	Cruise Planning Permit and Permissions Resource	Aircraft Request Form	Index of Research Vessels, Schedules, Facilities, & Other Information
Oceanic Worldwide Research Ships Schedules	Shiptime Request System	Aircraft Information	ALVIN & ROV scheduling at WHOI
Foreign Clearance Information	Post Cruise Assessment Report	CIRPAS Website	HiSeasNet - Internet for Oceanographic Ships at Sea
	UNOLS Equipment Pools - new! and UNOLS Equipment Inventory - new!		Schedules for Non-UNOLS Research Vessels (EPA, OMAO, USAP, USCG)
	Guidelines for Use of Non-UNOLS Facilities and Equipment		
	Rolling Deck to Repository (R2R)		

UNOLS

Online Equipment Inventory

UNOLS Equipment Inventory Search

Institution:

Vessel/Facility:

Group:

Device Type:

Manufacturer:

[Export Current Page](#) | [Export All](#) | Page Size:

	Institution	Vessel/Facility	Group	Device type	Manufacturer	Model	Description	Number	Component of
View/Edit	URI_GSO	Portable	nets & trawls	mocness	BESS	MOC-1		1	
View/Edit	RSMAS	Portable	nets & trawls	mocness	BESS	MOC-1		1	
View/Edit	RSMAS	Portable	nets & trawls	mocness	BESS	MOC-1 double		1	
View/Edit	RSMAS	Portable	nets & trawls	mocness	BESS	MOC-10		1	
View/Edit	OSU_COAS	Portable	nets & trawls	mocness	BESS	MOC-1	1m2	1	
View/Edit	OSU_COAS	Portable	nets & trawls	mocness	BESS	MOC-0.25	0.25m2	1	
View/Edit	SIO	Portable	nets & trawls	mocness	BESS	MOC-1		1	
View/Edit	SIO	Portable	nets & trawls	mocness	BESS	MOC-1 double		1	
View/Edit	SIO	Portable	nets & trawls	mocness	BESS	MOC-10		1	
View/Edit	UH_SOEST	Kilo Moana	nets & trawls	MOCNESS	BESS	MOC-1		1	
View/Edit	UAF	SIKULIAQ	nets & trawls	mocness	BESS	MOC-1			mocness



UNOLS

Pooled Equipment/Services

Portable Lab (Van) Pools

- Operated by: UDelaware (East Coast) and OSU (West Coast)
- Portable labs including dry lab, isotope lab, cold lab, clean labs
- Requested early in the planning phase
- More info:
 - <http://marops.cms.udel.edu/uecvp/>
 - <http://www.shipops.oregonstate.edu/ops/vans/>
- NOTE: Some institutions have their own lab vans so consult with the host institution prior to requesting a van



Winch Pool

- Operated by: WHOI
- Heavy, Medium, Light and Ultra-light duty winches available
- Requested early in the planning phase
- More info:
 - <http://winchpool.whoi.edu/>
- NOTE: Institutions have their own installed and portable winches so consult with the host institution prior to requesting a winch



Photo from whoi.edu

Long Core



- Operated by: WHOI
- Capable of recovering up to a 50m core
- Currently only available on KNORR but design study underway to move to LANGSETH
- More info:
<http://www.whoi.edu/page.do?pid=19095>

NORCOR

- Operated by: OSU
- Jumbo Piston Core (JPC)
- Multi core, box core, gravity core, Kasten core
- Maintains the core repository at OSU
- Contact:

Nick Pisias:

npisias@coas.oregonstate.edu

541-737-5213



MISO & PFPE

- Operated by: WHOI
- PFPE: Magnetometers and gravimeters
- Towcam, MC-800 w/ RT camera, Deep-Sea cameras, strobes, High-Temperature Loggers, Acoustic Transponders and more!
- More info:

<http://www.whoi.edu/website/miso/miso-instrumentation>



Operation SWAB

- Operated by the UMiami Tritium Lab (UMTL)
- 3rd party testing for low levels of ^3H and ^{14}C contamination of ships and associated laboratory vans
- Visit ships at least 1x per year, sometimes more often
- Can be requested (through the ship operator) prior to natural abundance cruises
- SWAB results are posted online through UNOLS website:

<http://www.unols.org/info/RadioisotopeUse/UseLog/UseLog.html>

Ship/Shore Communications

- Generally 2 systems available, HiSeasNet & FBB
- HiSeasNet
 - Primary System.
 - Always on.
 - Fixed rate paid through day-rate (\$150/\$250)
- FBB
 - Back-up to HiSeasNet
 - Pay as you go system
 - Paid through CGI with WHOI
- Anything beyond basic communications (e.g. video outreach) must be discussed approved by the funding agencies. Discuss with the host institution EARLY.
- If you are not sure whether your needs are “normal”, ask.



Multibeam Advisory Committee

- Operated by L-DEO and UNH
- Support for the multibeam systems to help ensure consistent high-quality multibeam data
- More Info:
<http://mac.unols.org/>



- Operated by UH/Julia Hummons
- Developed a suite of collection & processing software for ADCP data
- Provides near real-time data monitoring to participating institution

Chemistry Services

ODF

- Operated by SIO
- Reference Quality Hydrographic Support
- CTD data acquisition and processing to WOCE standards
- More Info:
<http://odf.ucsd.edu/>



Other

- Data Collection and/or sample analysis services may be available from a lab at the host institution
- Ask your cruise Technical Support POC to find out what might be available
- If the host institution cannot help, ask around for other possibilities

Tech Pool and Tech Sharing

- Each ship supplies a baseline level of technical support
- Baseline level of support varies a bit from ship to ship so be sure to discuss your tech support needs early
- If necessary, additional tech support may be available through the Tech Pool or through Tech Exchanges
- Additional funding is needed for additional support so contact your Science Program Manager and have the ship's Technical POC contact his/her Program Manager

Planning



- Equipment/Services should be requested EARLY in the planning process. Discuss with the cruise Technical POC
- Requests can come from either the Chief Scientists or the Ship operator.
- Do your research and understand what equipment you need. Don't be afraid to ask questions.
- Last minute requests can be frustrating for all parties. Sometimes they are unavoidable but try to make them the exception and not the norm

Use



- Pooled Resources are for the *entire* community
- They should be treated as if it is your own so it will be available for others in the future:
 - Understand the equipment and its limitations prior to the cruise. Ask questions.
 - Read any literature that arrives with the pooled equipment. It is there for a reason!
 - Return it in as good or better shape than when it arrived
 - Abuse will not be tolerated

UNOLS

Radioisotope Resources

- UNOLS are multi-use vessels that support both natural abundance and enhanced isotope research
- Miniscule amounts of enhanced isotope will ruin natural abundance work
- Increasing concerns of contamination from enhanced isotope users



Rad Awareness Program

<http://www.unols.org/info/RadAwareness.html> (go to this link)

- Outlines the problem and the program with tools on the bottom of page
- Presentations to make folks aware the issues and how to avoid them
- Links to Radioisotope Use Logs for each ship
 - Who has used radioisotopes
 - SWAB test results
- Checklists to help everyone understand the roles and responsibilities onboard.

Great way to help new users understand radioisotopes use on ships in general and especially on multi-purpose ships.