Oregon State University, College of Oceanic and Atmospheric Sciences
Common-Use Equipment Request

Date:	
Cruise/Project:	**Chief Scientist:**
Cruise/Use Dates:	**Phone Number(s):**
Marine Technician:	**Person Filing Form:**
Funding Source:	**email address for contact:**

Address Questions to: Marc Willis, Marine Technician Superintendent,
phone: 503/737-4622; FAX: 503/737-2064; email: willis@oce.orst.edu **12/93**

ITEM	ANTICIPATED USE	COMMENTS
Hydrographic Grouping		
* SeaBird CTD system Options 25 cm transmissometer Seatech fluorometer Can handle other analog inputs	No. casts _____ max depth _____ transmiss? _____ fluorometer? _____ other channels? _____	requires Marine Tech onboard indicate special needs:
GO Rosette samplers - 12 bottle with frames/deck units	check if wanted _____ size bottles to be used	requires Marine Tech
† 5-liter, 10-liter and 1.7 liter Niskin bottles (15 each size available)	Size(s) needed _____ No. needed _____ therm.racks? _____	indicate special needs:
Reversing Thermometers and digital reversing thermometers (2)	No. therms _____ (un)protected _____ temp. ranges _____	Contact Marine Techs for details on ranges, etc. Please let us know ASAP if you need thermometers

NOTES:

* Neil Brown MKIIIB CTD system available with 6 months' notice. This is not a primary capability.
† 20L Go-Flo and 30L Niskin bottles also available with some notice. This is not a primary capability. These bottles not compatible with rosettes.

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Underway Measurements Grouping*

ITEM	ANTICIPATED USE	COMMENTS
RDInstruments shipboard Doppler current profilers (150 kHz and 300 kHz systems available, can run simultaneously)	Frequency_____ Dual system?_____	Provided with IBM-AT logging, call for details - ARRANGEMENTS FOR DUAL USE, OR UNUSUAL REQUESTS SHOULD BE MADE WELL IN ADVANCE.
XMIDAS shipboard data logging/display system Routinely logged	Desired data medium and format:	Indicate special needs:
Auxilliary Shipboard sensors Logged in Shipboard data systems	Flow-thru C&T _____ Met Parameters _____ Light Meters _____	Many Options for sensor types and locations on the ship. Call for details.

NOTES:
Please provide a list of any user-supplied sensors to be integrated into the data streams. WECOMA's XMIDAS system can provide logging of user-supplied sensors.

* These measurements can be made routinely while underway. Use charges are incurred for ADCP and Met measurements. XMIDAS is operated at no cost to users.

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Seawater Analysis Grouping

ITEM	ANTICIPATED USE	COMMENTS
* Guildline 8400 Autosal	Check if wanted _____ [operated by user]	OSU can supply bottles and standard water at cost
Turner Designs field model 10 fluorometer	check if wanted _____ flow-thru mode?_____ interface to shipboard data systems? _____ indicate filter needs	indicate any other special needs:
Pellicon ultra-filtration system	indicate filter needs	call for details
B&L Spectrophotometer	No. days use _____	requires 6 mo. notice
Dissolved oxygen titration system	Administered by Joe Jennings 503/737-4365	Call for info and availability

Nutrient Autoanalysis Facility

Nutrient AA services are available within the College of Oceanography. A Rapid Flow Analysis system is available under the direction of Dr. Lou Gordon (503/737-2161). Please call Dr. Gordon for details of the system, availability and cost information.

NOTES:

* One Autosal can be made available for use at sea. Beware that Autosals do not travel well, and it may not be possible to run all salts at sea. Please plan accordingly.

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Shipboard Services Grouping

ITEM	ANTICIPATED USE	COMMENTS
Shipboard Networking Services	See Below	
Electromechanical swivels-stainless steel - single conductor - fit all WECOMA conducting cables (2 avail)	check if needed _____ wire size(s)	required for CTD and/or rosette
Winch slip rings - 4-conductor - 4 available	check if needed_____	required for CTD and/or rosette
12 kHz pingers - Benthos model 2216 (2 available)	check if needed_____ estimate hours of operation	
*Shipboard bathymetric systems 12 kHz and 3.5 kHz can run simultaneously	indicate any special needs:	
Low Temperature freezers (2 available) -85C, 5 cu. ft.	check if needed_____	
Dry Lab tables and cabinets in various heights and sizes:	Please FAX us a copy	of your preferred arrangment at 503/737-2064
Portable refrigerator (15 cu. ft.)	check if needed_____	
Portable chest freezer (15 cu. ft.)	check if needed_____	NO RADIOACTIVE STORAGE IN THESE REEFERS!
*Plain paper copier	please indicate if a large	amount of use anticipated

COMMENTS:

NETWORKING: If you have need for shipboard network capabilities, or if you desire more information on shipboard networking on WECOMA, please contact Tim Holt, Data Systems Specialist, 503/737-4447, email: holtt@oce.orst.edu. We will need to assign shipboard network addresses to your systems, and give you information about WECOMA shipboard computing. Internet connections are available on WECOMA at dockside in Newport, and batch email service is available onboard at sea. Please contact Tim for details.

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Seafloor Sampling Grouping

ITEM	ANTICIPATED USE	COMMENTS
* Piston Coring Facility	Number of Stations_____	

There are other seafloor sampling capabilities available within the Geological Oceanography faculty group at OSU. These are not part of the shared-use pool, and may be subject to restrictions. For information on equipment and capabilities, contact Pete Kalk, 503/737-2704.

NOTES:

*Piston coring services provided through the NORCOR Coring Facility. Call Pete Kalk (502/737-2704) for details of the system, capabilities and scheduling.

********** WARNING **********

The Marine Technician assigned to your cruise will have a general knowledge of the Piston coring system and its operation. He is available to assist with setup and initial basic training. However, you should expect to bring sufficient personnel and expertise with you to perform the coring program you intend. Training can be arranged in Corvallis, and is strongly encouraged. Additionally, there is a coring technician available within the college who may be available to participate in your program, at your expense. Call for details. Basically, we will provide the equipment, you will provide the personnel and coring expertise. Piston Coring on WECOMA is not a primary capability, and difficulties may arise. Please contact Pete Kalk well in advance to discuss the operations you intend.

Be aware that this is a heavy and awkward system. Shipping costs and any staging/forklift/crane costs incurred will be borne by the user. On a typical cruise from a port other than Newport, these may run into several thousands of dollars.

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Ship's Deck Equipment

Winch And Wire Rope Requirements: Please indicate type of wire/cable required for each winch. Also state purpose for use of wire rope and EM cables, weight of instrument(s), depth of cast(s) and length of wire required. See R/V WECOMA Cruise Planning Manual.

Hydro Winch: (Typically used for CTD/bottle casts. CTD wire=5/16" 3-conductor EM)
Trawl Winch: (Available with bare drum 5/16" conducting wire or 3/8" trawl wire):
Coring Winch: (Available only with 1/2" wire rope, normally used for towing, box coring, etc.):
*Portable CTD Winch (with 1/4" EM Cable, 2000 m):

Cranes/Frames:

*Articulating crane:	Main Ship's Crane:
Hydro A-Frame:	*Stern A-Frame: perm
Capstan:	*Portable Air tuggers/air winches (2 avail):
*Portable storage racks for compressed gas cylinders:	Specify number, size of cylinders, type of gas:

* indicates equipment carried only on request.

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Please give a brief summary of operations for your cruise, any special requirements of needs you may have which are not mentioned above, and any information which will help us to plan technical support for your cruise. (e.g., Diving, any unusually large, heavy or delicate equipment, storage before or after the cruise, unusual requirements for power, hydraulics or air, pre and post-cruise shipping, etc.).

Please Indicate Ports Of Call, Particularly Loading/Offloading Ports Other Than Newport.

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Notes on Common-Use Equipment

1) AVAILABILITY: The equipment listed on this form is part of an NSF-sponsored shared-use pool. As such, it is available for use by WECOMA projects as well as projects at OSU (and sometimes elsewhere). Scheduling is done on a first-come, first-served basis, with priority given to NSF-sponsored, WECOMA projects.

2) PERSONNEL REQUIREMENTS: The equipment is provided with the understanding that the user will provide for his/her own personnel needs. It is not the job of the Marine Technician to perform your research work. The Marine Technician may be free to assist with your field work, but his other duties have priority.

3) EQUIPMENT STAGING: We can provide most of your staging needs at Newport and elsewhere. Any additional lifting equipment you may require will be recharged to your project. You are advised to contact the Marine Operations Coordinator (Dave McWilliams, Ship Operations, Newport 503/867-0215, Telemail OSU.SHIPS), regarding ports other than Newport, dealings with agents, etc.

4) COSTS AND CHARGES: Most of the items and systems listed on the checkoff sheet have costs associated with their use. In addition, your project is responsible for two-way transportation costs between Corvallis and the ship as necessary and staging costs. User fees are set by OSU yearly, and are available on request. An outline of costs can be found in the WECOMA Cruise Planning Manual.

5) LIABILITY FOR DAMAGE: Damage to instrumentation and equipment beyond normal wear-and-tear, or due to negligence on the part of the user will be the responsibility of the user. Users from outside OSU may be required to show proof of adequate insurance before equipment can be released to them for use.

6) RADIOACTIVE WASTE AND RAD MONITORING: WECOMA has very specific guidelines for the onboard use and subsequent disposal of radioactive materials. You must consult with the Marine Operations Coordinator about this well in advance. Disposal of radioactive waste is the responsibility of the user, regardless of where done. In the vast majority of cases, disposal of radioactive wastes at sea is prohibited. Disposal of most waste can be arranged through the Radiation Safety Office at OSU, and will be at your expense. These costs and procedures are available on request from the Radiation Safety Officer at OSU (Rainier Farmer, 503/737-2227). Be advised that you will be required to continuously monitor your work areas, and that your work areas are subject to a radiation sweep test following your cruise. In ports of call other than Newport, this will be your responsibility. You are strongly advised to contact the Marine Operations Coordinator and Radiation Safety Officer well in advance of your cruise, to head off any problems. NOTE: Refrigerated/Frozen storage of isotopes and radioactive materials is your responsiblity. Radioactive storage is not allowed in any of WECOMA's reefers.