

\*\*\*\*\* STS/ODF-/SEG EQUIPMENT REQUEST \*\*\*\*08RRlee\*\*\*\*\*

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SHIP: REVELLE  
SIO CRUISE ID: RR1011  
DATES: 14 August - 23 October 2010  
PORTS: Kao-hsiung, Taiwan - Kao-hsiung, Taiwan

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STS/ODF-/SEG-RT PERSONNEL REQUIRED: 1 Research Technician

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Casts: One at each mooring deployment  
Max Sampling Depth: 1000m, will not be close to the bottom.  
Equipment Required:  
CTD SBE system with acquisition computer, Sea-Bird programs:  
Sea-Bird SEASAVE for Windows  
Sea-Bird Data Processing programs Windows based.  
Sea-Bird Data Processing Manual  
Sea-Bird Data Acquisition Manual  
Current calibrations entered into the \*.con file.  
Calibration sheets, copy, and pdf files  
Calibrations, temperature and conductivity are performed ~4 months  
Calibrations, pressure performed ~once a year and oxygen ~6 months.  
Computer with keyboard/mouse/color monitor

EQUIPMENT IS ON BOARD THE SHIP:

2 each	CTD, Sea-Bird	911plus	09P11599-0401
	w/Pressure sensor	401K-105	59916
	CTD, Sea-Bird	911plus	09P41717-0831
	w/Pressure sensor	401K-105	9967
	sensors included		
5 each	Temperature Sensor, Sea-Bird	SBE3Plus	32059
	Temperature Sensor, Sea-Bird	SBE3Plus	32165
	Temperature Sensor, Sea-Bird	SBE3Plus	32166
	Temperature Sensor, Sea-Bird	SBE3Plus	32322
	Temperature Sensor, Sea-Bird	SBE3Plus	34138
5 each	Conductivity Sensor, Sea-Bird	SBE4C	42112
	Conductivity Sensor, Sea-Bird	SBE4C	42569
	Conductivity Sensor, Sea-Bird	SBE4C	42766
	Conductivity Sensor, Sea-Bird	SBE4C	42818
	Conductivity Sensor, Sea-Bird	SBE4C	43023
2 each	Oxygen sensor, Sea-Bird	SBE43	430186
	Oxygen sensor, Sea-Bird	SBE43	430275
4 each	Pump, Sea-Bird	SBE5T	54374
	Pump, Sea-Bird	SBE5T	51781
	Pump, Sea-Bird	SBE5T	51864
	Pump, Sea-Bird	SBE5T	53334
2 each	Deck Unit, Sea-Bird, V.2	SBE11	11P41717-727
	Deck Unit, Sea-Bird, V.2	SBE11	384
2 each	Altimeter, Benthos 1-99.9M	PSA-916D	1182
	Altimeter, Benthos 1-99.9M	PSA-916D	1184 AIR
2 each	Fluorometer, Wetlabs	Chlorophyll	FLRT-1156
	Fluorometer, Seapoint, 6km	Chlorophyll	SCF3003

2 each	Adaptors for MCIL cable		
2 each	Carousel, Sea-Bird 24-place	SBE32	3229197-0417
	Carousel, Sea-Bird 24-place	SBE32	3231807-0456
2 each	Transmissometer, 25cm, 6km	WetLabs	CST-1176DR
	Transmissometer, 25cm, 6km	WetLabs	CST-1189DR

ROSETTES ON BOARD

1 each 24 place rosette frame, yellow  
 26 each 10 liter bottles,  
 lanyard material, hose clamps, o-rings  
 Lead weights & hardware for rosette  
 Nitrile (Buna-n) o-rings are installed on the bottles.

BACKUP

1 each 12 place rosette frame, yellow  
 14 each 10 liter bottles includes 2 spares

EMAIL Dated Wed, 28 Apr 2010 Jonathan Nash <nash@coas.oregonstate.edu>  
 2 300 kHz RDInstruments ADCPs (one is Alford's) that we would like to install onto the Revelle's CTD frame.

I was planning on bringing delrin mounts + mounting hardware that we've used in the past (on standard Seabird CTD frames). We generally use our own custom battery pack for power (the grey pressure case in this photo).

One other component on the CTD that I wanted to talk to you about is a fast-Temperature sensor. We intend to mount something we call a chipod (I've also attached a picture of it below) to the CTD cage. The version I will bring consists of a 3.7" diameter pressure case with fast-response thermistors on each end. It would be attached on the outside of one of the CTD's verticals (using rubber + hoseclamps). If possible, we would like to somehow "vane" the entire CTD cage so that it does not spin as it goes down, but instead remains oriented with the flow such that the chipods are on the leading edge (steered into the flow). For this purpose, we thought we might attach a plastic vane (maybe 1 ft long, 3/8" thick and the height of the CTD cage) on the opposite side from the chipods.

We're fairly open to how to go about doing this, but we do need to find a way of keeping part of the CTD cage oriented into the flow during its descent.

NOT REQUESTED-ON BOARD FROM PREVIOUS AND SUBSEQUENT EXPEDITIONS:

2 each	Par Sensor, 1km, Biospherical	QSP-200L	4541
	Par Sensor, 2km, Biospherical	QSP-2300	4643
	Surface Par, Biospherical	QSR-240	20307

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Additional Information:

SEE: <http://shipsked.ucsd.edu>

Second CTD on board as backup from previous and for subsequent expeditions.

Shipping Details (Approx.Dates,etc.): N/A

Be advised serial numbers may differ with actual setup.

SIO/STS CTD has the wet pluggable MCBH-6 connectors

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Taken by: From previous expedition & Pre-Cruise Meeting  
 Request by: K. Sanborn, 07/16/2010  
 Copies to: Sutherland/Durkin/Joyce/Lockhart/Swift/Files(Administration);  
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\*\* Notify Robert Thombley or Kristin Sanborn of additions or changes.

All other requests should be directed to Research Technicians.

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