

\*\*\*\*\* STS/ODF-/SEG CRUISE REQUEST \*\*\*\*02MVthurber\*\*\*\*\*

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DATES: 24 February 2010 - 17 March 2010  
PORTS: Puerto Montt, Chile- Bahia de Valparaiso, Chile  
SHIP: MELVILLE  
SIO CRUISE DESIGNATION: MV1003  
POC(CTD): Robert Thombley

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STS/ODF-/RT PERSONNEL REQUIRED: No: 2 Research Technician

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Casts: "25-30 casts to a maximum depth of ~6500m, coming as close to the bottom as possible. In addition we are bringing a LSS and ORP sensors to add to the CTD which plug into one of the aux ports."

Instruments with a depth rating of 6000m will be removed at the two sites and sampling will be ~100m off 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

CTD SBE system with acquisition computers:

2 each	CTD, Sea-Bird	911plus	09P39801-0796	OB
	w/Pressure sensor	401K-105	98627	OB
	CTD, Sea-Bird	911plus	09P39801-0830	OB
	w/Pressure sensor	401K-105	99676	OB
	sensors included:			
3 each	Temperature Sensor, Sea-Bird	SBE3Plus	34209	
	Temperature Sensor, Sea-Bird	SBE3Plus	34213	
	Temperature Sensor, Sea-Bird	SBE3Plus	34226	
3 each	Conductivity Sensor, Sea-Bird	SBE4C	41879	
	Conductivity Sensor, Sea-Bird	SBE4C	41919	
	Conductivity Sensor, Sea-Bird	SBE4C	42659	
3 each	Pump, Sea-Bird	SBE5T	52567	
	Pump, Sea-Bird	SBE5T	52788	
	Pump, Sea-Bird	SBE5T	53342	
2 each	Oxygen sensor, Sea-Bird	SBE43	431136	
	Oxygen sensor, Sea-Bird	SBE43	431508	
2 each	Deck Unit, Sea-Bird, V.2	SBE11	11P31807-0654	OB
	Deck Unit, Sea-Bird, V.2	SBE11	11P9852-0366	OB
2 each	Altimeter, Benthos 6km	PSA-916D	41832	
	Altimeter, Benthos 6km	PSA-916D	43696	
2 each	Carousel, Sea-Bird 24-place	SBE32	3252161-0699	
	Carousel, Sea-Bird 24-place	SBE32	3241717-0564	
2 each	Fluorometer, Seapoint, 6km	Chlorophyll	SCF2964	
	Fluorometer, Seapoint, 6km	Chlorophyll	SCF2775	
2 each	Transmissometer, Wetlabs	CSTAR	CST-1115DR	OB
	Transmissometer, Wetlabs	CSTAR	CST-493DR	
2 each	Adaptors for MCIL cable (Fluorometer and Altimeter)			
	Spare kit, including not limited to cables, dummy plugs			

ROSETTE:

1 each 24-place rosette, orange, 10-liter bottles  
26 each 10 liter bottle, includes 2 spares OB  
lanyard material, hose clamps, o-rings  
Lead weights & hardware for rosette

Nitrile (Buna-n) o-rings are installed on the bottles.

CTD Station Sheets

Other Equipment for the package:

In addition we are bringing a LSS and ORP sensors to add to the CTD which plug into one of the aux ports.

Science party has made contact with restechs@ucsd.edu that includes John Calderwood, 9/18/2009.

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Additional Information:

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

Be advised sensor serial numbers may differ.

A complete manifest will be provided to Research Technicians, Ship's Captain, and Captain Kelety

OB=On board from previous expedition

Shipping Details (Approx.Dates,etc.): ~6 January 2010 (SEE S. Hiller, J. Dorrance)

Shipping to Valpariso, Chile-will combine with Restech container

AIR: ~26 January 2010 (If needed)

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Taken by: email, 18 Sep 2009 Request by: K. Sanborn, 2 Dec 2009

Copies to: Sutherland/Durkin/Joyce/Lockhart/Files(Administration);  
Oceanographic Data Facility (all-at-odf@sts.ucsd.edu);  
Swift; Requestor/PI;  
Research Technicians-Marine & Electronics (restech@ucsd.edu);  
Ship Scheduling (shipsked@ucsd.edu);  
MELVILLE Captain (master@rv-melville.ucsd.edu)  
Captain Zolton Kelety (zkelety@ucsd.edu)

\*\* Notify Robert Thombley or Kristin Sanborn of additions or changes.

All other requests should be directed to Research Technicians.

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