

CRUISE PLAN R/V OCEANUS

FILING DATE:	10/2/2012
CRUISE NUMBER:	OC1210B
TITLE:	CMOP mooring and baseline cruise
CONTRACT/GRANT NUMBER:	U0766B
PRINCIPAL INVESTIGATOR(S):	Murray Levine / Antonio Baptista

PURPOSE: (Short, non-technical statement on how cruise relates to overall project)
Continue the sampling of the Oregon and Washington coastal ocean with moored sensors and CTD observations.

ITINERARY: (Include station positions and route waypoints.)
<p>Sunrise: 0730; Sunset: 1830 PDT Perfect weather scenario...</p> <p>CTD stations: water samples with rosette will be taken at some of the stations.</p> <p>Thu Oct 18 -- Load ship</p> <p>Fri Oct 19</p> <p>1000 -- Transit to NH-10 site (Chart name: <i>OSU Yaquina Research Lighted Buoy</i>, Light #652; 44° 38.00'N, 124° 18.20'W)</p> <p>1230 -- Deploy NH-10 Lodgepole mooring (80m water depth) (3' diam x 16' long buoy 1000#, 70 m 3/8" wire rope + 45 m 1/2" chain + 3-wheel anchor 2500#)</p> <p>1400 -- Recover NH-10 Alder mooring a few miles north of the official NH-10 site (44° 41.05'N, 124° 17.09'W) (6' diam buoy 1200#, 70 m 3/8" wire rope + 45 m 1/2" chain + 3-wheel anchor 2500#)</p> <p>1600 -- Deploy Hales bottom frame #1 (NH-10)</p> <p>1700 -- NH Line CTDs at NH-10, 15, 20 (take water at some of these stations)</p> <p>2000 -- Deploy Hales bottom frame #2 (NH-20)</p> <p>2100 -- NH Line CTDs at NH-25, 35, 45 (if time) (take water at some of these stations)</p> <p>2350 -- Transit to site known as "Seaside Data Buoy" charted position 46° 02.13N 124° 14.63W (about 85 nmiles). Currently there is no buoy on station.</p> <p>Sat Oct 20</p> <p>0800 -- Deploy a "winter" buoy with minimal instrumentation: 5' foam buoy with tower (800#), 1/2" chain (750#), clump weight (500#)</p> <p>0900 -- Transit to buoy known as "CMOP Research Lighted Buoy" at charted position 46° 10.40N 124° 07.60W. (9.5 nmiles)</p> <p>1000 -- Recover mooring: 5' foam buoy with tower (800#) and instrumented mooring string down to 135'; remainder of mooring is 1/2" chain (750#) and clump weight (1000#).</p> <p>1130 -- At the same location deploy "winter" buoy with minimal instrumentation: 5' foam buoy with tower</p>

(800#), ½” chain (750#), clump weight (500#)

1200 – Columbia River line CTDs (CR-4,7,10,15,20,25,30,35,40) (water at some of these stations)

Sun Oct 21

0300 -- Transit to GH-41 (51 nmiles)

0800 -- Gray’s Harbor line CTDs (GH-41,36,31,26,21,16,10,6,3) (water at some of these stations)

1800 -- transit to Newport

Mon Oct 22

0800 -- Arrive Newport (143 nmiles)

WILL RADIOACTIVE METHODS BE USED?

NO

SAMPLING PLAN:

See itinerary above

EQUIPMENT REQUIRED: (Should be included on Shared-Use Equipment request form)

-80 deg freezer

Winch that can be “over-wrapped” with mooring line and hardware during recovery

Gifford wide mouth mooring block (or equivalent) on A frame for mooring work.

Crane (buoy deployment/recovery, moving anchors at sea, loading/unloading).

Flow-through DAS system

ADCPs

CTD with Chlorophyl fluorometer, transmissometer, DO, Rosette

Capstan and deck turning block, ½” long link vertical “stopper” chain

SCIENTIFIC PERSONNEL TO BE ONBOARD: (Provide full legal name & affiliation)

Scientist in Charge:	Murray Levine (OSU)
Scientist(s):	Michael Wilkin (OHSU), Steve Pierce(OSU), Todd Mitchell (UW)
Party Chief:	
Technicians:	David Langner (OSU), Jo Goodman (OHSU), Katie Rathmell (OHSU), Danny Lockett (OHSU), someone from Burke Hales’ group (TBD)
Grad Students:	Colin Duncan (OSU)
Undergraduate Students:	
Observers:	

OSU Marine Technician(s) Assigned to Cruise: David O’Gorman

USER SUPPLIED EQUIPMENT:

Estimated Weight:	
Location:	

OTHER BULKY HEAVY ITEMS:

Moorings to recover: Buoy “Alder” (1200#) and anchor (2500#); 5’ foam buoy (800#); clump weight (1000#); chain (750#)

Moorings to deploy: Buoy “Lodgepole” (1000#) and anchor (2500#); 2 ea 5’ foam buoys(800#); 2 ea clump weights (500#); chain (1500#)

BILLING INFORMATION:	
Name:	CEOAS
Address:	
City, State, Zip	
Phone:	
Account Number (or number to reference):	U0766B

DO YOU WANT CELLULAR/INMARSAT PHONE ACCESS:	NO
(Chief Scientist will be responsible for all charges – dedicated science phone.)	

Contact info:

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