CMOP Cruise Report – 26-28 March – on RV Oceanus (OC1203A)

(submitted March 31, 2012 by Murray Levine)
(CMOP-cruise-report-Mar-2012-v1.doc)

Science Personnel
Murray Levine (OSU) Chief Scientist, Michael Wilkin (OHSU), Jo Goodman (OHSU), David Langner (OSU), Rachel Golda (OHSU), Michael Garcia (OHSU), Carolyn Sheehan (OHSU), Kristina Remple (OHSU), Clara Llebot (OHSU)

Mar Techs
Since inaugural voyage of Oceanus under OSU operation, 3 Mar Techs sailed with us: Daryl Swensen, Erik Arnesen, David O’Gorman

List of tasks completed
Hooked up ISUS to CTD (O’Gorman)
CTDs at NH-10, 15, 20, 25 – minimal sampling of water from NH-10 and 25.
Deployed NH-10 mooring (buoy Alder)
Recovered buoy at SATURN-02

Daily Log
All times are given in local PDT unless otherwise noted.

26 Mar – Loading day
Langner and Craig Risien (OSU) drove flat bed truck to ship in morning. Equipment loaded on deck. Sensors were then attached to mooring wire.
Wilkin and Goodman arrived from Astoria with 1 buoy with instruments.
Colleen Wahl (OSU) checked instruments mounted on the bridle.
Meeting on bridge with Captain Jeff Crews, Levine, Langner, Wilkin, Beck, Swensen, Tony Monocandilos (2nd mate), John Forgione (1st mate). We went over the schedule in the cruise plan. Weather and sea state was a major topic of discussion; marine forecast not encouraging for the whole week. Delay departure to after noon: high tide. Schedule: 0730 breakfast, 1000 safety lecture followed by CTD briefing by Daryl, 1130 lunch.
Joe Needoba helped CTD team from OHSU set up filtering operations. Needoba helped check ISUS which appeared to be working; had O’Gorman mount on SBE.
Dinner at the Rogue for many – busy place—spring break

27 Mar -- Tuesday
0730  Breakfast as planned.
Conditions not great: waves 15’. Capt Jeff goes over forecast—“bad stuff coming tomorrow Weds” (through Sat!)
1000  Safety lecture and orientation. All tried on survival suites. “Safety is our number one priority.”
After lecture CTD team was given orientation. Daryl went through the entire procedure from start to finish. The launching of the CTD seemed particularly challenging, much more complicated than the Wecoma. Two tag lines are needed for launching and recovery. This
requires some experience in line handling. Under the best of weather circumstances this will be
difficult for inexperienced crew to participate safely.
Left dock at 1230pm. Deployment of NH-10 mooring went well, except the ship speed was a bit
too fast for hand-held deployment of sensors on wire. Need to make sure we have a backup
stopper capability. Also, need to coordinate better with the bridge.
Deployment: day 87, 23:17 UTC, 44 deg 38.00’N, 124 deg 18.20’W. Water depth 82-83m

At 1630 local transit to NH-10 to do CTD. Cast taken but by the end, 3 of the CTD team is
below not feeling well. It is clear that need Mar Tech help to do CTDs. Water for chemistry was
drained into containers and put in lab without processing. Water for DNA/RNA was put into wet
lab until filtered by Michael Garcia the next day.

Mar Techs Daryl and Erik agreed to do CTDs at NH-15, 20, 25 before heading north to
SATURN-02 site. Water was taken at NH-25 at 4 depths specified by Murray. The water was
left in the rosette for the remainder of the cruise. It was emptied at the end and some taken back
to OHSU.

28 March -- Wednesday

Traveling north was fairly comfortable despite growing seas. Found SATURN-02 on station
where expected with flashing light. After 0630 there was a meeting on bridge to discuss action
plan. Decided to recover buoy before breakfast, so that could make it back to Newport at high
tide.

Buoy was snagged with hook on pole and attached to deep-sea winch. Buoy was lifted through
A-frame. Wire broke because ship pulling too hard on line. This made recovery easier with no
wire or anchor to bring aboard. Buoy aboard by 0740.

Decided too rough to deploy new mooring at this spot. Frustrating.

Went to OGI-1 and found it to be in its expected position. Decided too rough to recover.

Headed for Newport to catch high tide to cross the bar. Forecast indicates condition will worsen
significantly. At 1920 local crossed bar. Calm waters at last! Sick scientists emerged from
bunks feeling much better. It has been a very long 31 hour cruise.

Off to Nana’s in Nye beach for dinner/refreshments as many missed the steak and lobster served
for dinner on the bouncing ship.

29 March --Thursday

0730 Breakfast. Packing goes quickly. All left Newport before noon.
CTD Summary

All time UTC.

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Note: Cast#1 had technical problems.