For the Week of July 8, 2018

Office of Coast Survey

Weekly Hydro Ship Activity Report

Welcome to NOAA's Weekly Hydrographic Ship Activity Report! We hope you enjoy this reader-friendly layout for our weekly report as we update you on the progress of our NOAA-ship and contractor-run surveys.

Highlights of this edition of Weekly Ship Report

- *Thomas Jefferson successfully completes sonar acceptance testing for the two EM2040s on its survey launches.*
- *Fairweather works on Arctic surveys.*
- *Rainier hosts a USGS participant of the CalDIG project in preparation for the upcoming work.*
- *Terrasond anticipates the finish of the SW Alaska Peninsula project.*

NOAA Ships

BAY HYDRO II

Surveys in Chesapeake Bay

No report submitted.

FAIRWEATHER

OPR-S347-FA-18, Point Hope and Vicinity, AK

Fairweather was delayed in Nome, AK for four days to complete repairs to an engine exhaust manifold. This was used as an opportunity for alongside training for launch crews. After repairs were complete, survey work commenced on the first priority sheet in OPR-S347 Point Hope & Vicinity. Progress coverage and sketch can be found in Google Drive.

Recap

- *Fairweather* remained alongside in Nome, AK until July 12 to complete engine exhaust manifold repairs.
- Departed Nome on July 13, commenced approximately 22 hr transit to working grounds.
- Anchored SW of Point Hope on July 14 and deployed launches for survey work.
- Processing continues on D00245 and H13007, including final statistics after application of NSPMVD model.

Looking Forward

- Ship acquisition will be conducted on July 16 and possible tide buoy deployment.
- To avoid a building storm, Fairweather may transit to Kotzebue Sound on July 17, continuing south when possible with the intention of collecting data on the D00247 corridor sheet.

FERDINAND HASSLER

Ferdinand Hassler is alongside for scheduled repair period at the Curtis Bay Coast Guard Base south of Baltimore, MD.

RAINIER

Newport, OR

Progress coverage and sketch can be found in Google Drive.

Recap

- *Rainier* completed its transit to Newport, OR for scheduled repairs to the A/C system.
- While in Newport, personnel continued to focus on coxswain and hydrographer training.
- Also on Wednesday, July 11th, a visitor from the USGS was aboard to discuss logistics for the upcoming CalDIG project. *Rainier* will tow an assortment of gear provided by the USGS for this project.
- Processing continued on H12991 (Port of Everett, WA), H13006 and F00728 (Tracy Arm, AK), and H13008 and H13009 (Lisianski Inlet, AK).

Looking Forward

- *Rainier* will continue to focus on training of coxswains and hydrographers as well as data processing for the surveys collected earlier this year.
- ECDIS training will also take place this week for deck watch officers.

THOMAS JEFFERSON

OPR-K371-TJ-18, Approaches to Houston, TX

Progress coverage and sketch can be found in Google Drive.

Recap

- Completed new sonar acceptance activities with the assistance of LCDR Sam Greenaway, LTJG Matt Sharr and a technical representative from Kongsberg; the EM2040 units on both TJ launches were officially accepted.
- Completed intro and advanced training on the EM2040 with TJ Survey Department personnel during sonar acceptance activities.
- Transferred LCDR Greenaway and Kongsberg representative to shore at Galveston, TX on 12 JUL; LTJG Sharr stayed aboard to augment in the Wardroom and assist with survey projects.
- Acquisition work continued on sheet H13045; completed bottom samples on H13048 and closed initial data acquisition on that sheet; post-acquisition processing work continued on sheets H13047 and H13044.
- Deployed launches for multiple days to acquire data on H13045 while concurrently exercising systems and conducting crew training in preparation for upcoming launch work in Puerto Rico.
- Particular recognition is owed to HSTB for supporting sonar acceptance activities and to TJ Engineering and Electronic Technician personnel for exhibiting great resourcefulness in repairing the ship's MVP system.
- Congratulations to CDR Chris van Westendorp, LCDR Sam Greenaway, ENS Garrison Grant, and ENS Sydney Catoire on being selected for promotion.

Looking Forward

- Work on H13045 will continue until the ship departs the area for the next scheduled inport (Pascagoula, MS, from 26-30 JUL 2018).
- Personnel shortages will continue to inhibit concurrent HSL and ship survey operations.

Contractors

OPR-K354-KR-18 - Louisiana Coast, LA

The weekly coverage figure (OPR_K354-KR-18_Jul_16.pdf) and GeoTIFF (OPR_K354-KR-18_Jul_16.tif) display all MBES coverage through July 7. The weekly progress image is available on Google Drive.

Recap

- From July 9 through July 15, 2018 (DN 190-196), OSI continued acquisition of mainscheme and investigation survey data for project OPR-K354-KR-18.
- The field crew conducted 24-hour operations aboard the survey vessel R/V OCEAN EXPLORER within Surveys H13100, H13101, H13102, and H13103.
- Total approximate linear nautical miles through DN196: 4855.
- The field crew returned to port July 13 to reprovision and shipped a hard drive with all acquired data to the OSI home office for data processing. All data through July 13 has been received and is in the processing queue.
- During the return to port the R/V OCEAN EXPLORER was boarded and inspected by the U.S. Coast Guard and found to be fully compliant.

Looking Forward

- For the upcoming week, the field crew will continue mainscheme acquisition in Survey H13102 and H13103. They will also work on investigations during daylight hours in H13100 and H13102.

OPR-P377-KR-18, SW Alaska Peninsula

Progress coverage and sketch can be found in Google Drive.

Recap

- Marginal weather experienced for a large portion of this week, including downtime for ASV-CW5 vessel on 7/8 and 7/13. Weather downtime for both vessels on 7/12.
- Finished mainscheme multbeam collection in H13116 (Ikatan Bay) and in H13114 (NW of Sanak Island) this week. Also completed shoreline verification in H13113 (Otter Cove).
- Mainscheme multibeam collection is also nearly complete in H13113 (Otter Cove).
- Also worked in H13116 (extended area) this week during periods of SW weather as it's evident there will be sufficient LNM to survey at least part of this area
- Retrieved Cape Lutke zoning tide station (two BMPG moorings) on 7/15.
- Total linear nautical miles (LNM) collected to date = 5,018 LNM (of 5,715 LNM estimated).

Looking Forward

- Rotation in Sand Point scheduled for 7/16.
- Pull Ikatan Bay and Dora Harbor zoning tide stations.
- Finish mainscheme in all remaining sheets.
- Finish shoreline verification.

- Perform bottom samples, infills, and remaining crosslines.
- May complete field acquisition this week.

OPR-J311-KR-18, Offshore Chandeleur, LA

- No report submitted.

Link to Survey Figures **Link to Story Map**