

For the Week of October 1, 2017



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 concludes work in Puerto Rico and the US Virgin Islands supporting Hurricane Maria recovery efforts.*
- *Rainier commences their OPR-L397-RA-17 survey of Channel Islands National Marine Sanctuary!*
- *Fugro completes OPR-A366-KR-17, East Penobscot Bay, ME.*



NOAA Ships

BAY HYDRO II

Recap

BHII is not currently surveying.

Looking Forward

BHII is not currently surveying.



FAIRWEATHER

OPR-O346-FA-17 - Yakutat Bay, AK

Recap

- Worked on bottom samples and crosslines for H13070 and mainscheme for H13073 on Oct 2 before halting operations due to swell.
- No operations Oct 3-4 due to swell conditions.
- Reviewed data and DRs from OPR-O190, West of Prince of Wales Island; continued processing and analysis for Yakutat Bay sheets, focusing on identifying holidays and additional acquisition areas.
- Commenced transit to Juneau early morning of Oct 5 to take advantage of a lower swell window in the Gulf of Alaska.
- Arrived to Juneau for scheduled inport on Oct 6. Bid farewell to Annie Raymond, who provided support as a launch HIC and survey reviewer.

Looking Forward

- Depart Juneau on Oct 10, transit to Yakutat Bay, arriving the morning of Oct 11.
- Focus data acquisition on H13072 and H13073 as permitted by weather.
- Continue final DR and data reviews for OPR-O190 West of Prince of Wales surveys.
- Continue DR writing for OPR-R365 Port Clarence surveys following final ellipsoidal referencing.



FERDINAND HASSLER

OPR-G343-FH-17 - Approaches to Jacksonville, FL

Recap

- *Hassler* spent the week of 10/2 alongside in Charleston, SC, owing to weather in the working grounds.

Looking Forward

- *Hassler* got underway on 10/9 to continue work on project G343, Approaches to Jacksonville, FL. Upon arrival on the morning of 10/10, the ship will begin crossline and mainscheme acquisition on H12984.



RAINIER

OPR-L397-RA-17 - Channel Islands National Marine Sanctuary, CA

Recap

- *Rainier* continued its transit south from the Western Regional Center in Seattle, WA towards its next project at the Channel Islands National Marine Sanctuary (CINMS).
- On the way south, *Rainier* collected an additional line of MBES data on project M-N-908-RA-17 (OCNMS) off the coast of Grays Harbor, WA.
- On the evening of October 3rd, *Rainier* arrived at the first sheet (H13089) on project OPR-L397-RA-17, CINMS. The ship began acquisition on multibeam echo sounder (MBES) bathymetry and backscatter data. Data was acquired by the ship for approximately 24 hours.
- On October 4th, *Rainier* held a command review for sheet H12997, of OPR-P136-RA-17 (Kodiak).
- On the evening of October 4th, *Rainier* completed data acquisition on H13089 and transited towards Santa Barbara, CA.
- On the morning of October 5th, *Rainier* arrived in Santa Barbara, CA and conducted a crew transfer via small boat. Bryan Costa, a representative from the Channel Islands National Marine Sanctuary and Kristen Crossett, a communications specialist from the Office of Coast Survey joined the ship's company.
- *Rainier* then transited to San Miguel Island, Channel Islands, CA and deployed two boats to begin work on sheet H13083. One skiff conducted shoreline feature verification and one survey launch collected MBES data for backscatter calibration and ship's anchorage area reconnaissance.
- *Rainier* remained anchored for the rest of the week while conducting MBES and shoreline acquisition from the ship's survey launches and skiffs. On both days, three survey launches collected MBES data and two shoreline skiffs verified shoreline around San Miguel Island. Data was acquired on sheets H13082 and H13083.



Looking Forward

- *Rainier* will continue to operate survey launches each day, prioritizing the completion of sheets around San Miguel Island: H13082, H13083 and H13084.
- *Rainier* will likely get underway to change anchorages based on the direction of the weather and proximity to the survey launch working locations.
- *Rainier* will continue to conduct shoreline verification around San Miguel Island and Santa Rosa Island as tide windows and weather conditions allow.
- The ship may acquire MBES data on several offshore crosslines to be sent to IOCM for comparison analysis to existing *R/V Nautilus* data.
- On October 10th, *Rainier* will conduct a crew transfer via the NOAA vessel Shearwater. ENS Card will rejoin the ship's company while ENS Jennifer Kraus, Bryan Costa, and Kristen Crossett will depart.
- On October 13th, *Rainier* will pull in to San Diego, CA for a scheduled in-port.

THOMAS JEFFERSON

S-1950-TJ-17 - Hurricane Maria Response Effort

Recap

- *Thomas Jefferson* completed hurricane response surveys in the following ports last week:



- Limetree Bay and Krause Lagoon Channel, St. Croix USVI
- East and West Gregorie Channels / Charlotte Amalie, St. Thomas USVI
- Redhook Bay, St. Thomas USVI
- Cruz Bay, St. John USVI
- Bahia de Mulas, Isla de Vieques, Puerto Rico
- Bahia de Sardinias, Isla de Culebra, Puerto Rico
- Fajardo, Puerto Rico
- San Juan cruise ship piers, Puerto Rico
- Bahia de Guanica, Puerto Rico
- In addition, shore parties provided emergency maintenance to tide stations at Limetree Bay, St. Croix, Isabel Segunda, Vieques, and San Juan, Puerto Rico.
- *Thomas Jefferson* completed all assigned hurricane response surveys on 7 October 2017, and took a slight detour from transiting to Naval Station Mayport to recover an adrift CARICOOS wave buoy near Grand Turk Island, broken free during Hurricane Maria.

Looking Forward

- *Thomas Jefferson* will reprovision in Naval Station Mayport, FL on October 13 in preparation for survey operations in the approaches to Savannah River OPR-G329-TJ-17.

Contractors



DAVID EVANS
AND ASSOCIATES INC.
MARINE SERVICES

OPR-J348-KR-17 - Mississippi Sound and Vicinity, MS

Recap

S/V Blake and R/V Preston

- Due to weather (including Hurricane Nate), we weren't able to acquire much data last week. The *S/V Blake* got in two survey days and the *R/V Preston* did not operate at all.
- The *Blake* acquired 59 nm of MS and ran 106 sounding disprovals earlier in the week.
- We also submitted one Danger to Navigation (H13061 DtoN 01) to AHB.
- We continually monitored the forecast for Nate and positioned staff and resources out of harm's way well ahead of the storm making landfall. We appreciate the NOAA NWS NOLA Storm Updates provided by Tim Osborn.

Looking Forward

- This week we plan to restart operations and continue mainscheme acquisition in Sheets 9 and 10 and sounding disprovals for the set line spacing sheets.
 - We're also planning to follow upon the inshore contour development requirements for the set line spacing sheets.
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OPR-H358-KR-17 - Sarasota to Naples, FL

Recap

R/V Benthos, R/V Taku, R/V 505

- All vessels performed surveys in H13079 and 13080.

Looking Forward

R/V Taku

- Resolve mechanical issues and continue survey in H13079 and H13080 out of Fort Meyers.

R/V Benthos

- Continue survey in H13079 and H13080 out of Fort Meyers, FL.

R/V 505

- Continue survey in H13081 and H13080 out of Naples, holiday and investigation fill out of Naples and Fort Meyers.
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OPR-A366-KR-17 - East Penobscot Bay, ME

Fugro has now completed the OPR-A366-KR-17, East Penobscot Bay, ME project. This is the final weekly report on the project.

Recap

R/V Theory

- Vessel has been demobilized.

R/V Westerly

- The *Westerly* completed the remaining infills in Priority 1, 2, 3 and 4. The field operations for the project have been completed and the *Westerly* was demobilized in Stonington.

Looking Forward

R/V Theory

- None, Vessel has been demobilized.

R/V Westerly

- None, Vessel has been demobilized.
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OPR-K371-KR-17 - Sabine, LA

Recap

R/V Atlantic Surveyor

- The *R/V Atlantic Surveyor* was entirely on weather standby for the past week, but departed port (Galveston, TX) yesterday after passage of Hurricane Nate and is now back on the survey of Sheet 2 (H13055).
- As of last night we are "complete" on Sheet 1, and 34.66% complete on Sheet 2, which combined represents 29.73% of the total project.

Looking Forward

- No future plans were submitted by Leidos.



OPR-K371-KR2-17 - Approaches to Galveston, TX

Sea Scout continued working in H13090 completing almost all of Sub 1 and 2. Due to water quality affecting the MB data during collection, it was decided to move to Sheet 2 (H13091). Oct 3rd and 4th the *Sea Scout* was waiting on weather at the dock.

Recap

R/V Sea Scout

- Monday 2nd to Saturday 7th~ multibeam only survey operations in the northeast portion of H13090 (West of the fairway).
- Saturday 7th to Sunday 8th ~ multibeam only survey operations in the eastern portion of H13091.
- Completed 21.69 square nautical miles in Sheet 1, and completed 2.984 square nautical miles in Sheet 2. Sheet 2 (H13090) is approximately 93% complete and Sheet 1 (H13091) is approximately 23% complete. The overall project is approximately 66% complete.
- Almost 2 days of delays were experienced due to poor weather. Difficulty collecting good quality data on the west side of the jetties caused *Sea Scout* to break off location and move to Sheet 2.

Looking Forward

- The *Sea Scout* will continue to survey H13091 and when complete will return to H13090 to complete as much of the remaining subareas.



OCEAN SURVEYS, INC.

OPR-K354-KR-17 - Louisiana Coast, LA

Recap

R/V Ocean Explorer and R/V Osprey

- For the period between October 2 through October 8, 2017 (DN 275 - DN 281), both vessels were standing by awaiting favorable on-site weather conditions.
- The R/V OCEAN EXPLORER field crew has been on weather standby since September 30.
- All R/V OCEAN EXPLORER data through September 30 have been converted and are in the data processing queue.
- The R/V OCEAN EXPLORER field crew returned to port on September 30 for weather and shipped a hard drive with all acquired data to the OSI home office for data processing.
- All R/V OCEAN EXPLORER data through September 30 has been converted and is in the data processing queue.
- The R/V OSPREY remained in port on weather standby since September 29.
- All R/V OSPREY data through September 28th have been converted and are in the data processing queue.
- Total approximate LNW through DN281: 6228.

Looking Forward

- Based on the forecast, weather and site conditions should be workable again during the week of October 9.
- Once the weather moderates, both vessels will return to the project area to complete remaining gap fills, item investigations and grab samples.

[Link to Survey Figures](#)

[Link to Story Map](#)

Thomas Jefferson contributing to recovery

Thomas Jefferson created a wonderful poster to describe her efforts in Hurricane Maria response. A high-resolution version is available for download in [this week's download site](#).

