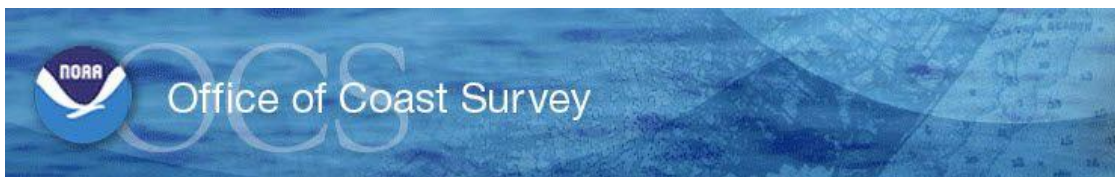


For the Week of September 30, 2018



## 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*

- *Rainier celebrates her 50-year anniversary of commissioning.*
- *Oceaneering's R/V Sea Scout begins offshore data acquisition on the OPR-J317-KR-18, Approaches to Tampa Bay Project.*
- *Gulf of Mexico survey contractors keep a watchful eye on Hurricane Michael.*



On October 3rd, the crew of NOAA Ship *Rainier* held a celebratory barbecue on the ship's fantail and assembled for a crew picture on the bow to celebrate 50 years since her commissioning by the United States Coast and Geodetic Survey in 1968. Congratulations *Rainier*! (Photo: Jonathan Witmer)

## NOAA Ships

### **BAY HYDRO II**

Surveys in Chesapeake Bay

No report submitted.



### **FAIRWEATHER**

OPR-N305-FA-18, Puget Sound, WA

Project diagram and bathymetric surface can be found in [Google Drive](#).

#### **Recap**

- No report submitted

#### **Looking Forward**

- No report submitted



### **FERDINAND HASSLER**

## OPR-G343-FH-18, Approaches To Jacksonville, FL

Progress coverage and sketches can be found in [Google Drive](#).

### Recap

- The *Hassler* transited to OPR-G343-FH-18 on October 1st and was collecting data on H12979 by 08:00 October 2nd.
- H12979 bottom samples, crosslines, and holidays were collected on October 5th. It was discovered that there are a few additional gaps in coverage, which will be surveyed as soon as practical.
- H12980 was started on October 6th.
- Due to generator and NETAPP issues (both Cat 2 CASREPS) the ship transited back to Charleston, SC on October 6th and was moored by 08:00 October 7th.



### Looking Forward

- The *Hassler* will continue troubleshooting our generator and NETAPP CASREPs with the assistance of a technical representative schedule to arrive at some point this week.
- H13131 and H12979 processing will be main focus while pierside.
- The ship will be getting U/W for our last Jacksonville leg on October 15th.

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## RAINIER

### OPR-L397-RA-18, Channel Islands National Marine Sanctuary, CA

Progress coverage and sketches can be found in [Google Drive](#).

### Recap

- *Rainier* conducted launch-based multi-beam data acquisition using four boats daily for nearly all days this past week as part of the CINMS project off of Santa Rosa and Santa Barbara Islands (OPR-L397-RA-18).
- Tuesday, October 2, marked the 50th anniversary of *Rainier's* commissioning. The ship celebrated the day with a barbecue on the fantail and a photo with the ship's crew on the bow.
- Mappers-in-Training Program (MiTP) Interns Kwanza Johnson, Skye Smith, and George Snyder, along with Bryan Costa and LTJG Jennifer Kraus from NOAA's NCCOS, joined the ship on Thursday, October 4. To date, the three interns have learned about launch data acquisition, ship-board processing, anchoring, and general shipboard life.
- Deteriorating weather conditions caused the ship to transit to Santa Barbara to anchor on Friday, October 5. The ship embarked the Acting Assistant Administrator for the National Ocean Service, Nicole LeBoeuf, along with Nicole Fernandes, on Saturday, October 6, following their meetings with the CINMS program staff.
- The ship got underway again Saturday evening to transit to working grounds south of Santa Rosa Island.



### Looking Forward

- *Rainier* will say farewell to Nicole LeBoeuf and Nicole Fernandes at noon on Sunday, October 8.
- The ship will continue acquisition on the CINMS project (OPR-L397-RA-18) through Thursday, October 11 and then begin the transit to San Diego for a scheduled weekend in-port.
- *Rainier* will arrive in port on Friday, October 12, at which point we will say goodbye to the MiTP Interns, LTJG Jennifer Kraus, and Bryan Costa.

- *Rainier* crew will begin the weekend in-port with an outreach event for grade-school students with the Ocean Discovery Institute in San Diego.

## THOMAS JEFFERSON

### OPR-I369-TJ-18, San Juan and Ponce and vicinities, Puerto Rico

Progress coverage and sketch can be found in [Google Drive](#).



#### Recap

- Ship remained moored while launch surveys H13140 (San Juan Harbor).
- HSL 2903 remains unable to conduct survey operations due to broken generator.
- HSL 2904 suffered acquisition computer breakdown due to under-performing UPS; lost acquisition day on 08 OCT for repairs. The ship has one remaining launch UPS to allow HSL 2904 to continue operations.
- Transmitted H13044 to AHB on October 3rd.
- We are grateful for the outstanding support from PS Christina Belton (HSD Ops), PS Eric Younkin (HSTB), and PS Rita Bowker (AHB).

#### Looking Forward

- The ship plans to remain moored while launches survey H13140 (San Juan Harbor).
- The ship's next inport is San Juan, PR from 12 - 15 October.

## Contractors



### OPR-J347-KR-18, Mississippi River

Progress sketch and GeoTiff, can be found in [Google Drive](#).

#### Recap

- We had another productive week last week and with the exception of a few days of fill and investigations feel that we have completed most of sheets 1, 2, and 3 (H13188, H13189, and H13190).
- We identified a few potential dangers to navigation which area currently under review in our office. In addition, we've come across multiple public floating aids within our survey area which are uncharted and also omitted from the USCG Light List. We contacted the USCG AtoNs group last week to inquire about these aids and were informed that the USCG uses the floating aids to mark shoals located during USACE surveys. The aids are permanently deployed but not permanently positioned so they aren't included in the Light List or meant to be charted. We will follow up with guidance on how to handle these aids in our Final Feature File.

#### Looking Forward

- This coming week we plan to wrap up fill and investigations on Sheets 1, 2 and 3 and start mainscheme acquisition on Sheet 4.

## OPR-K376-KR-18, Approaches to Port Lavaca, TX

Weekly progress GeoTiff and project progress sketch will be available in [Google Drive](#).

### Recap

- *Bella Marie* performing SSS and MBES ops, focusing on nearshore areas outside of Matagorda Bay when weather allows (primarily Sheet 13182), and inside Matagorda Bay when marginal. Some weather downtime experienced this week and minor sidescan issues.
- *Bunny Bordelon* surveyed through 10/4, primarily in sheet 13182. Multibeam-only operations to date due to sidescan issues.
- *Bunny Bordelon* returned to Port Aransas early, on 10/5, for a complete changeout of the multibeam pole due to it shaking during survey and therefore limiting survey speeds. MB pole changed out and tested successfully on 10/5. Also addressed sidescan issues so that sensor should now be operational. However, the *Bunny Bordelon* then went down on weather from 10/6 through 10/7.
- All vessels: LNM collected to date: 1,765 of 7,869.

### Looking Forward

- *Bella Marie* will continue SSS/MBES survey, favoring shallower portions of the assigned survey sheets outside the bay whenever possible with focus on Sheet 4 (H13182).
- *Bunny Bordelon* working primarily in Sheet 4 (H13182) and then move into Sheet 3 (H13181).



## OPR-J317-KR-18, Approaches to Tampa Bay, FL

The weekly progress GeoTiff and progress sketch are available on [Google Drive](#).

### Recap

- *C-Wolf*: Survey operations (100% side scan sonar with concurrent multibeam data acquisition) continued to be planned in Sheet 1 (H13170). Generator issues on the *C-Wolf* have caused the small boat to be shut down all last week.
- *Sea-Scout*: The *R/V Sea Scout* arrived in Tampa on September 28 and began survey operations on September 29th. Survey operations (100% side scan sonar with concurrent multibeam data acquisition) commenced and carried through the week in Sheet 2 (H13171).
- Note that the bathymetry data is preliminary from the field and has preliminary tides from the Port Manatee (8726384) tide station applied. Final ellipsoid processing via VDATUM and the separation model will occur during post-processing. Preliminary data indicate potential shoaling near the mouth of Bunces Pass, as well as between Egmont Channel and Bunces Pass. These areas will be evaluated during post-processing.

### Looking Forward

- *C-Wolf*: Repairs to the generator, complete Sheet 1 survey acquisition.
- *R/V Sea Scout*: Continued surveying in Sheet 2.
- Special Note: Continuing to monitor TS Michael and will plan accordingly.



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

The Weekly Progress GeoTiff and progress sketch are available on [Google Drive](#).

### Recap

- *M/V Atlantic Surveyor* resumed survey operations October 1, 2018.
- *R/V Pathfinder* remained in port due to adverse sea states for the smaller autonomous vessel.
- *M/V Atlantic Surveyor* conducted holiday surveys and commenced survey operations on H13134\_Ext and returned to Gulfport, MS October 7, 2018 due to deteriorating sea conditions.
- LNM completed to date 1887 of a total target 2816 LNM.

### Looking Forward

- The *M/V Atlantic Surveyor* and *R/V Pathfinder* will conclude data acquisition after the passage of the currently forecast Hurricane Michael in the northern Gulf region.
  - Re-commencement of survey may be possible by October 13, 2018 if weather allows.
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## OPR-J359-KR-18, Apalachicola, FL

The weekly progress GeoTiff and progress sketch are available in [Google Drive](#).

### Recap

- The *R/V Acadiana* continued to conduct survey operations in H13156; working on Blocks 05, 04 03, 02, & 01.
- The port call was conducted on October 2nd, vessel took on fuel, water, provisions, and conducted a crew change.
- No significant downtime to report.
- Total Linear Nautical Miles conducted to date: 4129.48.

### Looking Forward

- The *Acadiana* will continue operations in H13156 (Priority 4), until the next port call for fuel, water and provisions; which is anticipated to be October 8th.
  - Extended weather forecast has Hurricane Michael heading for our location, emergency plans are in place and will be executed when deemed necessary.
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## OPR-H355-KR-18, Florida Keys National Marine Sanctuary, FL

The weekly progress GeoTiff and progress sketch are available in [Google Drive](#).

### Recap

- *R/V Benthos* was down due to weather all days except 10/4, when it did a partial survey day on H13168.
- *R/V Taku* did not survey the past week due to weather.
- *R/V Marcelle* acquired mainscheme data in H13161 and conducted a crew change.

### Looking Forward

- *R/V Benthos* will continue data acquisition in H13165.
- *R/V Taku* will continue data acquisition in H13165.
- *R/V Marcelle* will continue data acquisition in H13161.

[Link to Survey Figures](#)

[Link to Story Map](#)