

UNIVERSITY OF WASHINGTON



SCHOOL OF OCEANOGRAPHY

STATUS OF COASTAL / LOCAL VESSELS

R/V RACHEL CARSON

ROBERT KAMPHAUS

MANAGER OF MARINE OPERATIONS

UNOLS – FIC - 20 NOV 2019

IN 2018, SCHOOL OF OCEANOGRAPHY REPLACED 50 YEAR OLD
R/V CLIFFORD A. BARNES WITH *R/V RACHEL CARSON*



THE NEW AND THE OLD

TIMELINE - MILESTONES

- ✓ Vessel Purchased – 8 Aug 2017 - \$1.07M
- ✓ Shipyard Contract – major maintenance, some mods – complete 5 Oct 2017
- ✓ Load *Rachel Carson* in Rotterdam for transport to US – 28 Oct 2017
- ✓ *Rachel Carson* arrived at UW - 28 Dec 2017
- ✓ Jan-Apr 2018 – prep for science, develop processes /procedures
- ✓ USCG Letter of Designation as R/V – 5 Apr 2018
- ✓ Apr 2018 – enter service, retire R/V *Clifford A. Barnes*
 - ✓ First cruise – 7-11 April 2018
- ✓ NSF Inspection 10-11 July 2018
- ✓ UNOLS application approved – 24 July 2018

R/V RACHEL CARSON



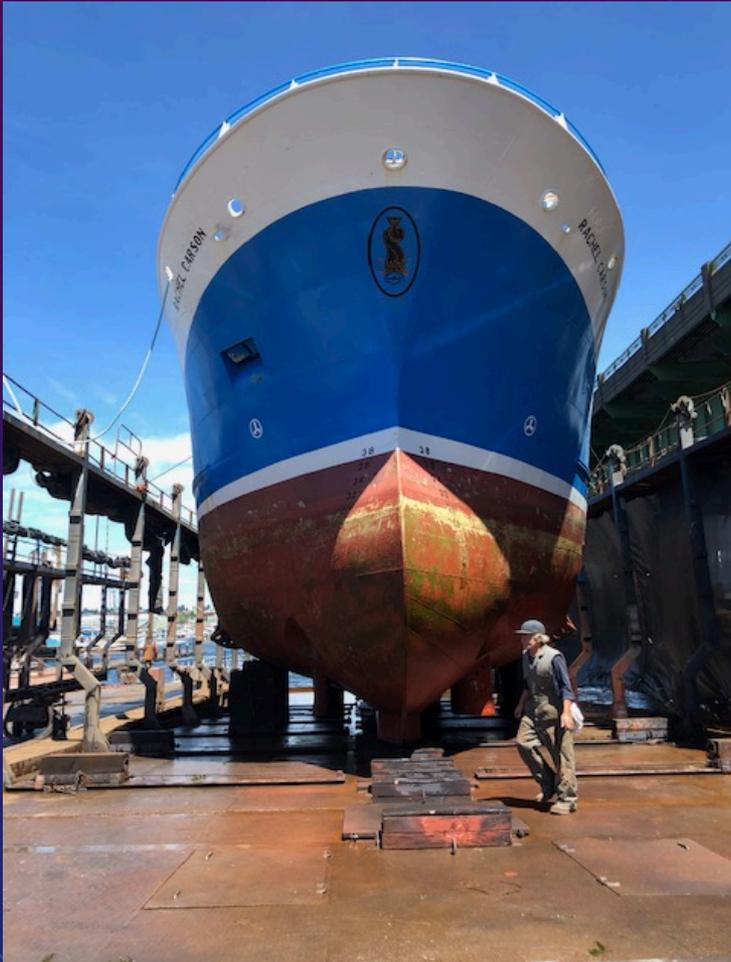
- Owned by UW; possible through a generous donation by Booth Family
- LOA: 72-ft Beam: 26 ft Draft: 14 ft 168 ton Local Class research vessel
- Built in 2003 = 16 years old; started service for UW in 2018
- Crew: 4-5 Science Party: 8-9 Total Bunks: 13 (for overnight)
- Up to 28 (including crew) for day trip. Cruises: Typically 1-5 days

BRIDGE, GALLEY, LABS, & ACCOMMODATIONS



Photos from JMS Inspection Report

FIRST SEATTLE HAUL OUT PERIOD – JUNE 2019



No big surprises!

CAPABILITIES

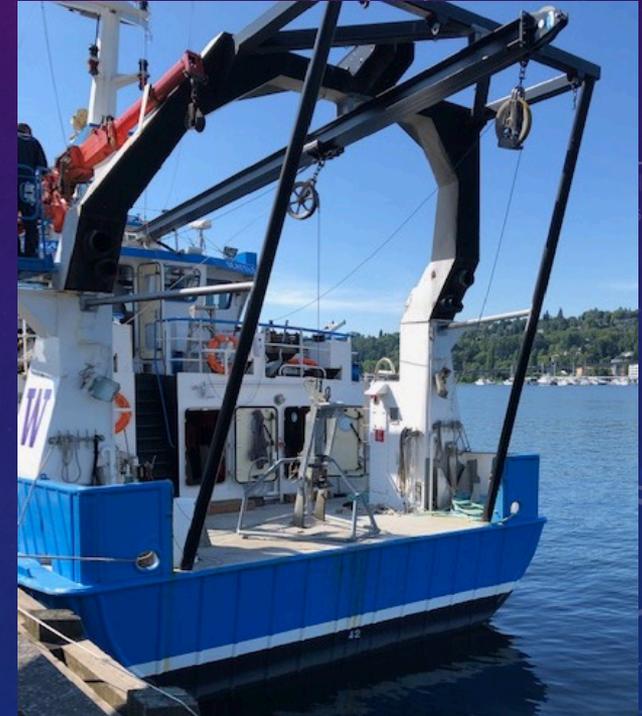
- Standard over the side: CTD, Net tows, Bottom grabs
- Hull-mounted xducers (ES-60, EK-80), Pole mounted ADCP



- Moorings from gantry extension
- Fishing? A few small mid-water and Otter trawls

ADDITIONAL CAPABILITIES

Overhead Traveler Added in June 2019



- + Increased capability and safety for handling moorings, etc = 2500 lb SWL
- + Moorings from gantry extension

NUMBERS

As of Nov 2018 - Thirty seven (37) science cruises and 158 funded days completed

- ✓ 49 days in CY18 109 days at sea for science (so far) in CY19
- ✓ Demonstrated 12 days at sea endurance with 13 people aboard
- ✓ 45 days deployed away from homeport (Summer 2019)

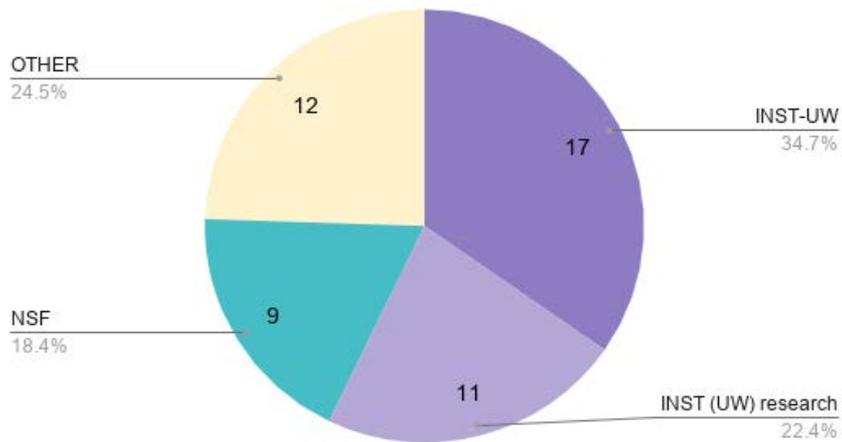


Over 3000 nm of seismic work
off WA/OR/N CA coast during
joint USGS / UW project

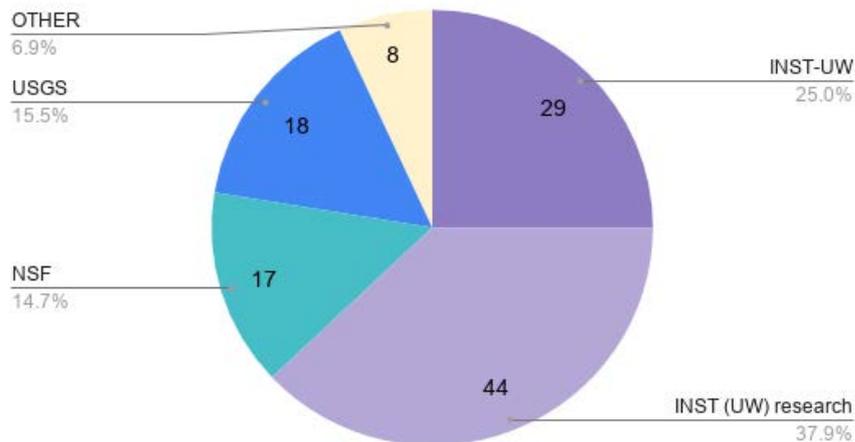


FUNDED DAYS AND DAY TYPES

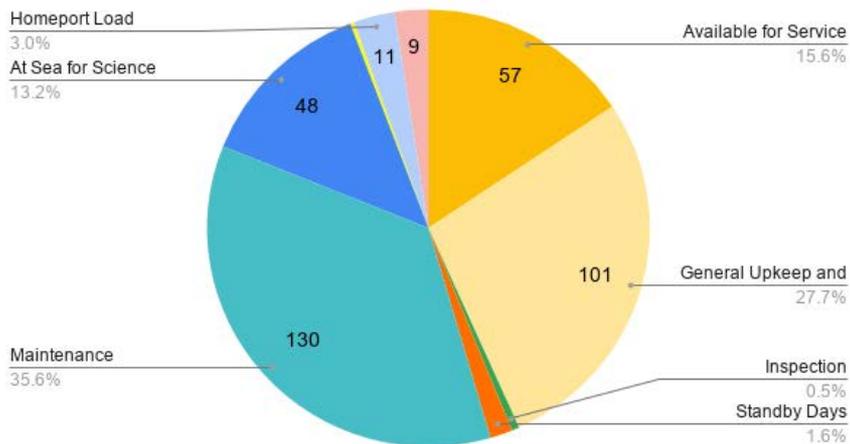
2018 Carson days by Funding (49 days funded)



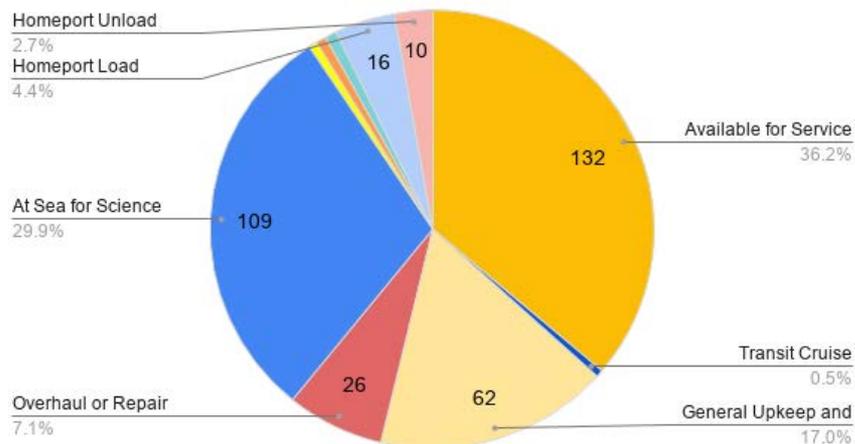
2019 Carson days by Funding (116 days funded)



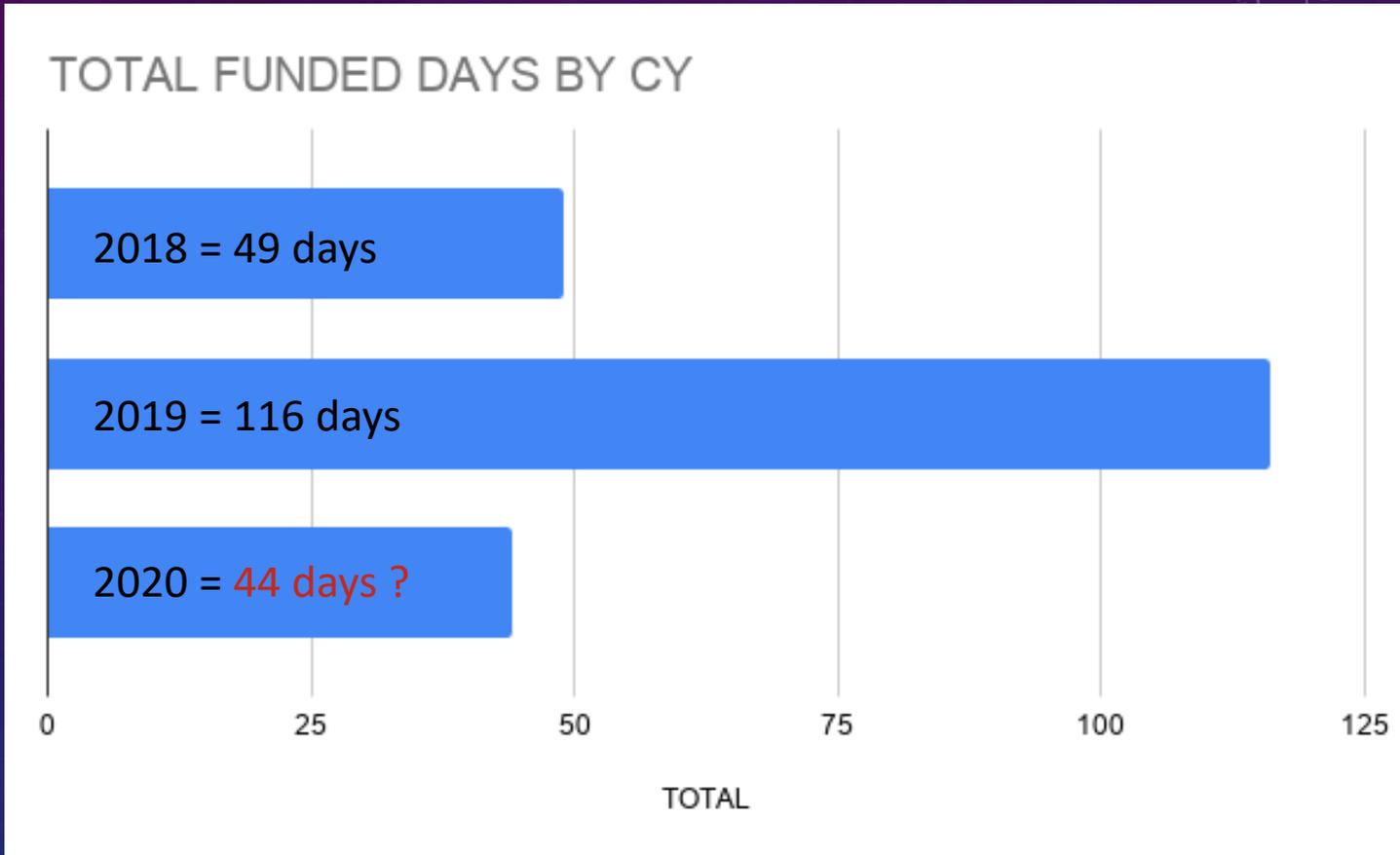
2018 Carson Days by Day Type



2019 Carson Days by Day Type



OPPORTUNITIES



Need to find additional users and sustain 100 – 120 days per year

FUTURE IMPROVEMENTS

[As Funding Allows]

- Scientific Seawater System
(in progress)
- Crane replacement
- Small boat davit (on bow)
- Improve winch setup
- A-frame with possible deck extension



R/V RACHEL CARSON

Dedicated to Beatrice and Bill Booth

February 6, 2018

May the many generations of students and researchers who travel aboard the RV Carson carry forth the legacy of the Booth family and their deep love of the ocean and all its undiscovered wonders.

QUESTIONS ?



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