

Outline

- Staffing
- 2024 Turn Cruises
- Platform status
- **Community Engagement**





- Stuart Pearce identified as EA cybersecurity contact.
- Raelynn Heinitz took over as WFP lead.
- Currently recruiting 1 platform technician (down one FTE since 1 April)

Electronics Lead

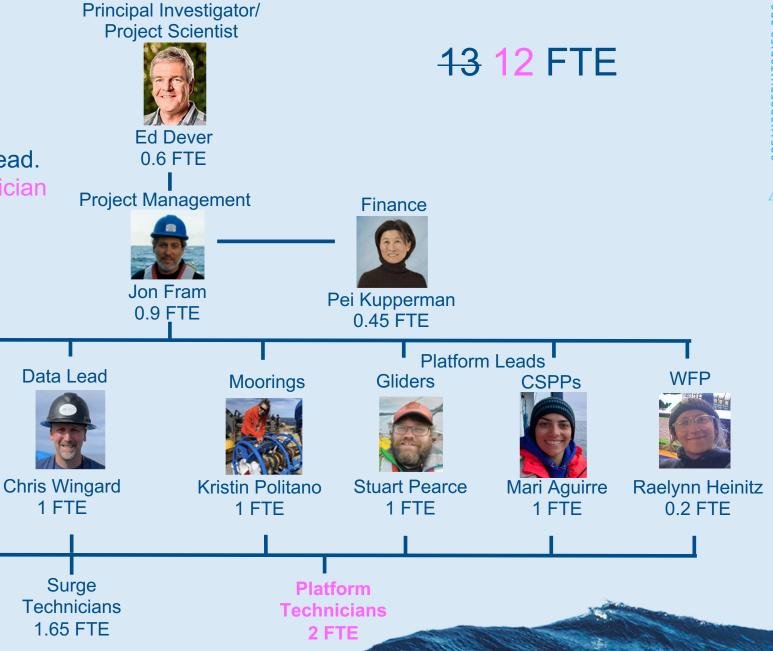
Steve Lambert

1 FTE

Undergraduate Student

Research Assistants

0.2 FTE







Field Ops And

Mechanical Lead

Alex Wick

1 FTE

Endurance Array Turn Cruises

Endurance 20 Spring 2024

- R/V Sikuliaq
- 29 March 11 April 2024
- Newport Newport, 2 legs
- Cruise was early, some replanning needed due to weather
- 9/16" heavy lift winch line with regrooved sheave UNOLS App A Exemption process

Endurance 21 Fall 2024

- R/V Sikuliaq
- 5 20 October 2024
- Newport Newport, 2 legs
- Scheduled late in the season, weather could be a challenge
- 9/16" heavy lift winch line plus new sheave UNOLS App A exemption process

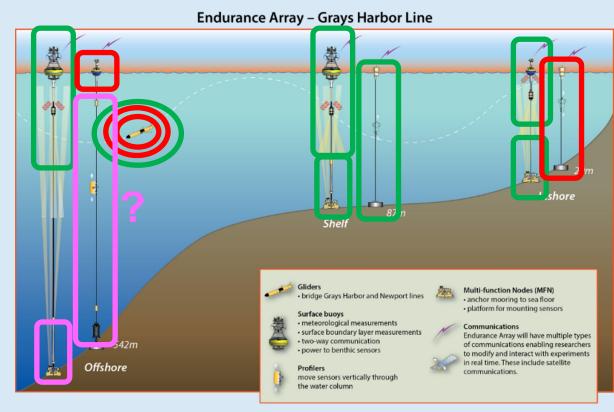


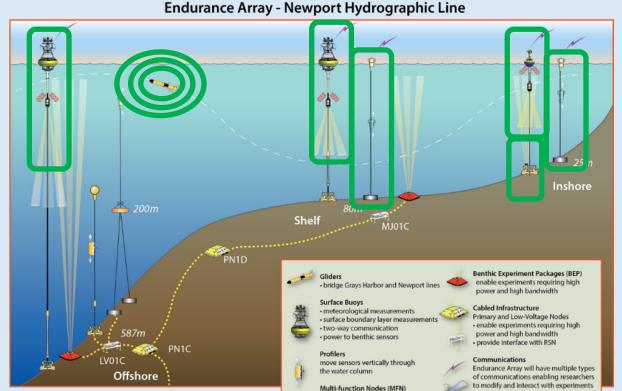
in real time. These include satellite

cabled connections.

communications and high bandwidth

Endurance Array platform status





anchor mooring to sea floor

platform for mounting sensors

To PN1B of

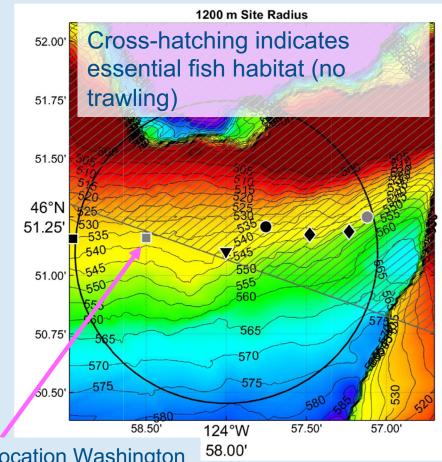
the RSN cable

Array status updates are posted weekly to OOI Discourse
Inshore Washington CSPP deployment scheduled for 2024-06-17.
Washington Offshore MFN communications lost within 24 hours of deployment.
Washington Offshore Profiling Mooring struck by ship on 2024-04-19. More on next slide.



Wire Following Profiler Buoy Parting

- No data from WFP after 2024-04-19.
- Received report of buoy on beach in Warrenton, OR 2024-04-27.
- Buoy recovered 2024-04-27.
- Damage strongly suggests ship strike
- Quite possible that WFP is still operating (this happened once before).
- Incident report in preparation.



Deployment location Washington Offshore Profiler Mooring – constrained by design depth of

533 m



Endurance 20 Mooring Status

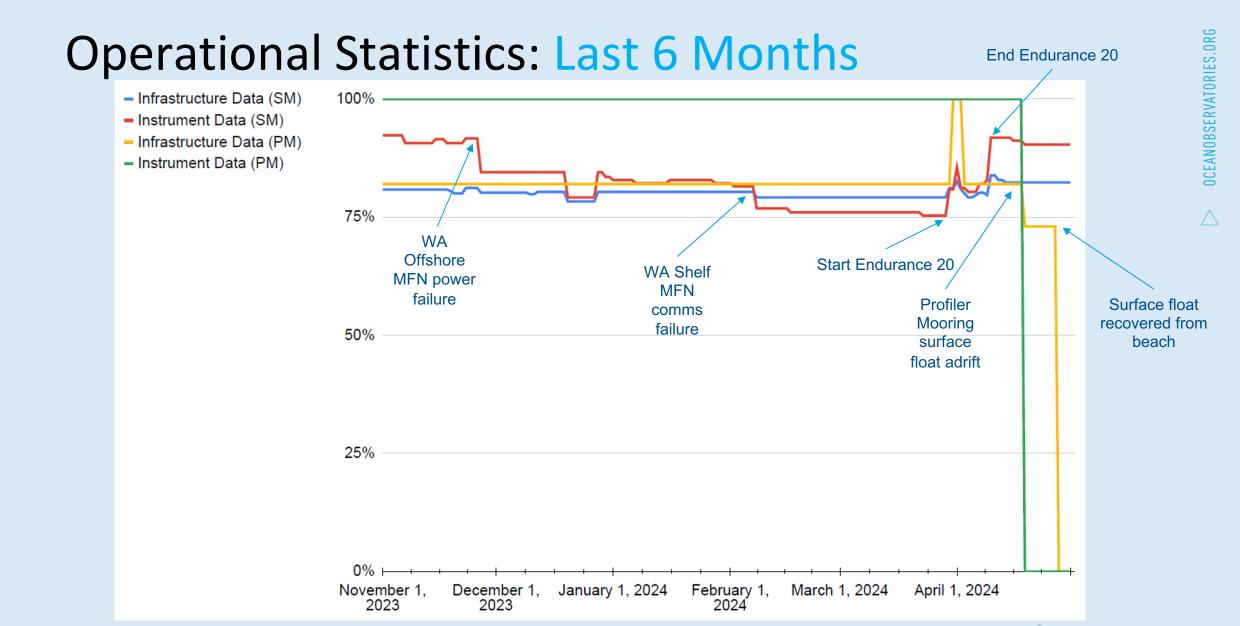
Platform	Infrastructure %	Instruments Deployed %	Near Real Time Delivered %	Data Collected %
Oregon inshore	94%	100%	95%	95%
Oregon shelf	79%	100%	100%	100%
Oregon offshore	76%	100%	100%	100%
Washington inshore	88%	95%	95%	95%
Washington shelf	86%	100%	86%	89%
Washington offshore	71%	100%	66%	97%
Washington offshore profiler	0%	100%	0%	100%

% takes into account electronics intentionally turned off (e.g., acoustic modems, FreeWave etc.)







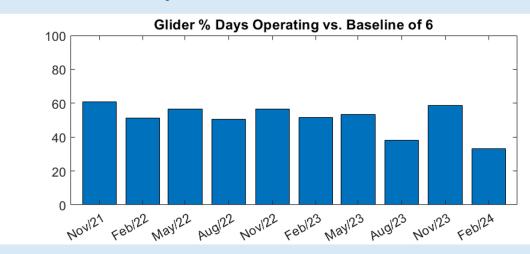


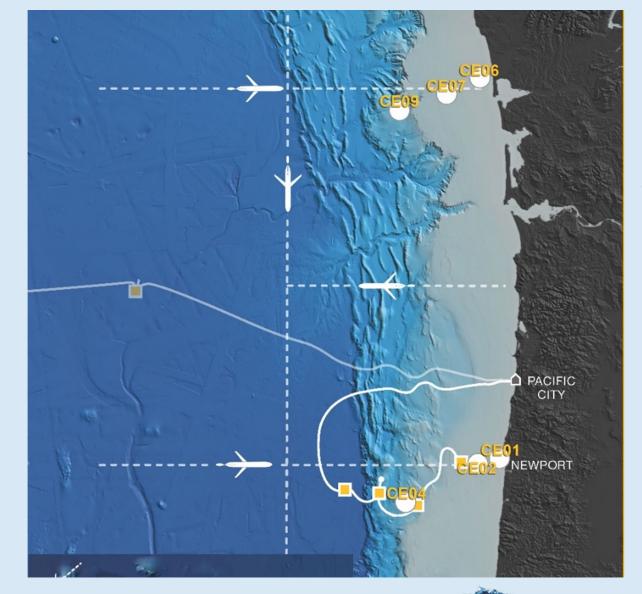




Endurance Array Glider Coverage

- Have been cycling G2 gliders through trade in to G3 gliders (sensors reused, otherwise new vehicle)
- Several G3 glider issues being worked through (build quality and firmware)
- Drop in Feb 2024 due to G3 glider issues being addressed under warranty and weather

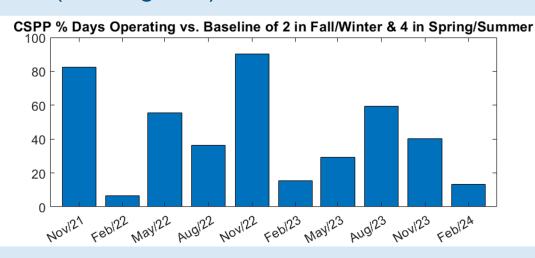


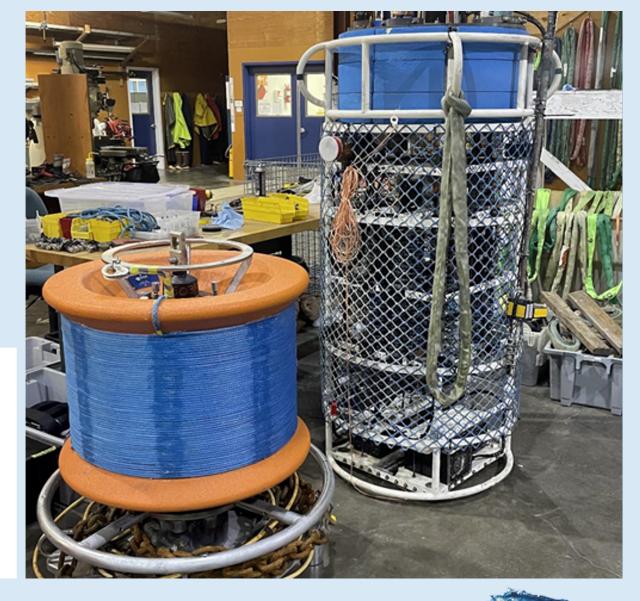




Endurance Array CSPP Deployment Summary

- No Grays Harbor deployment over winter 2023-2024 due to weather.
- Replaced all battery plate adaptors over winter 2023-2034 (i.e. main failure source)
- New CSPP technician since fall 2023 (Mari Aguirre)







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Community Engagement Highlights (see quarterly reports)

- Coordination with external PI (Prof. J. Fehrenbacher, CEOAS, OSU) on sediment trap turn in spring 2024.
- Julie Fouquet (3newable LLC) wave energy conversion test and prototype UV antifouling device deployed fall 2023 and recovered spring 2024. Next test spring 2025.
- Added external PI (Prof. T. Chapple, AgSci, OSU) VEMCO fish tag receiver with telemetry to Washington Shelf mooring. Plan to add 3 more in fall 2024.
- Four UNOLS cruise volunteers in spring 2024 (3 OSU, 1 UW)
- Contributed talks to February 2024 Ocean Sciences Meeting and staffed OOI Booth.
- Science session at February 2024 Ocean Sciences meeting one of the talks contributed by a former UNOLS cruise volunteer now a post-doc modeler at NRL working off the Grays Harbor region of the Endurance Array.
- Ocean Sciences Town Hall meetings







Questions?

