NOAA West Watch Update
25 August 2026

NANOOS Update

Jan Newton on behalf of many

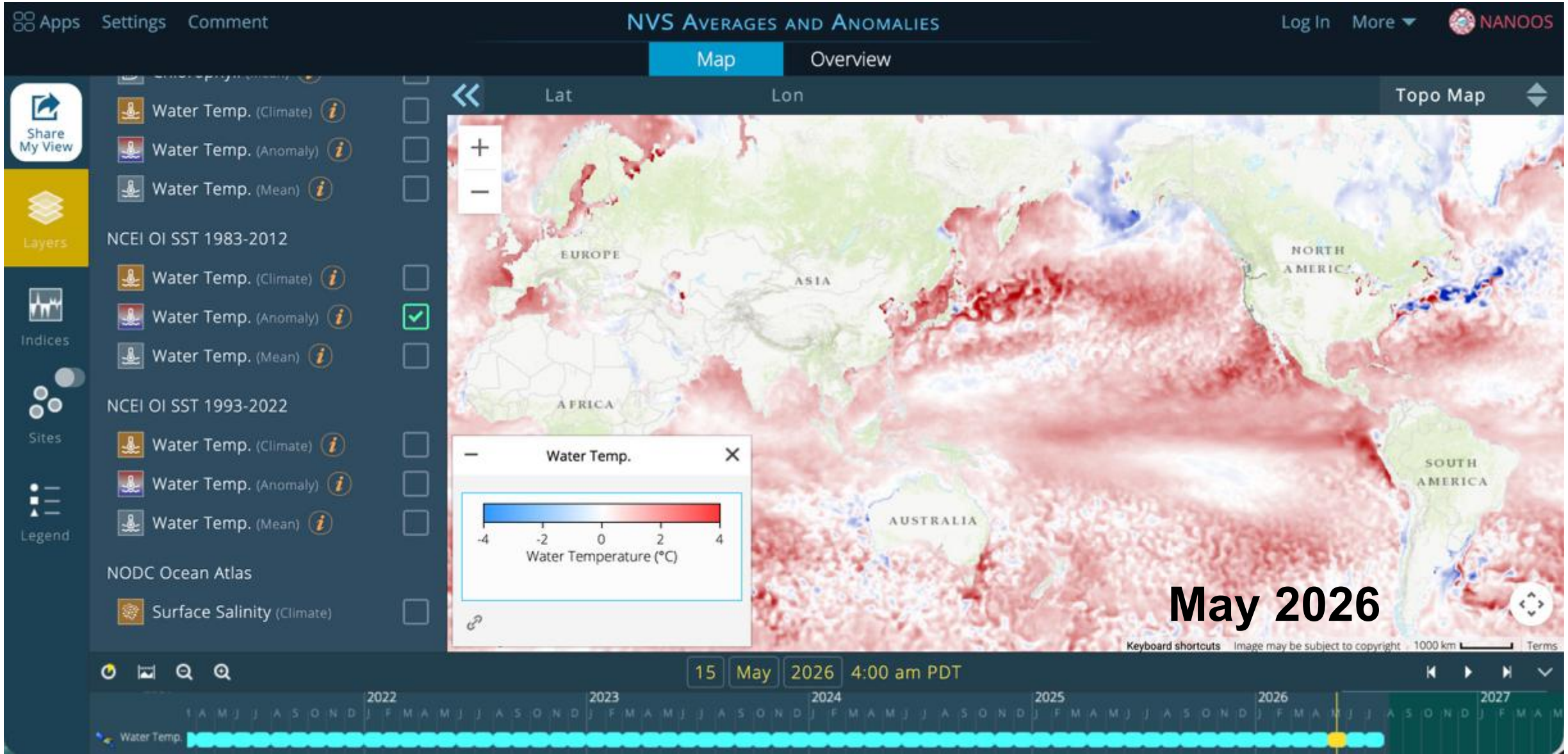
www.nanoos.org

NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

Climatology app:

Sea Surface Temperature Anomaly
NCEI Optimum Interpolation SST

NCEI OI SST vs. 1983-2012



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Climatology app:

Sea Surface Temperature Anomaly
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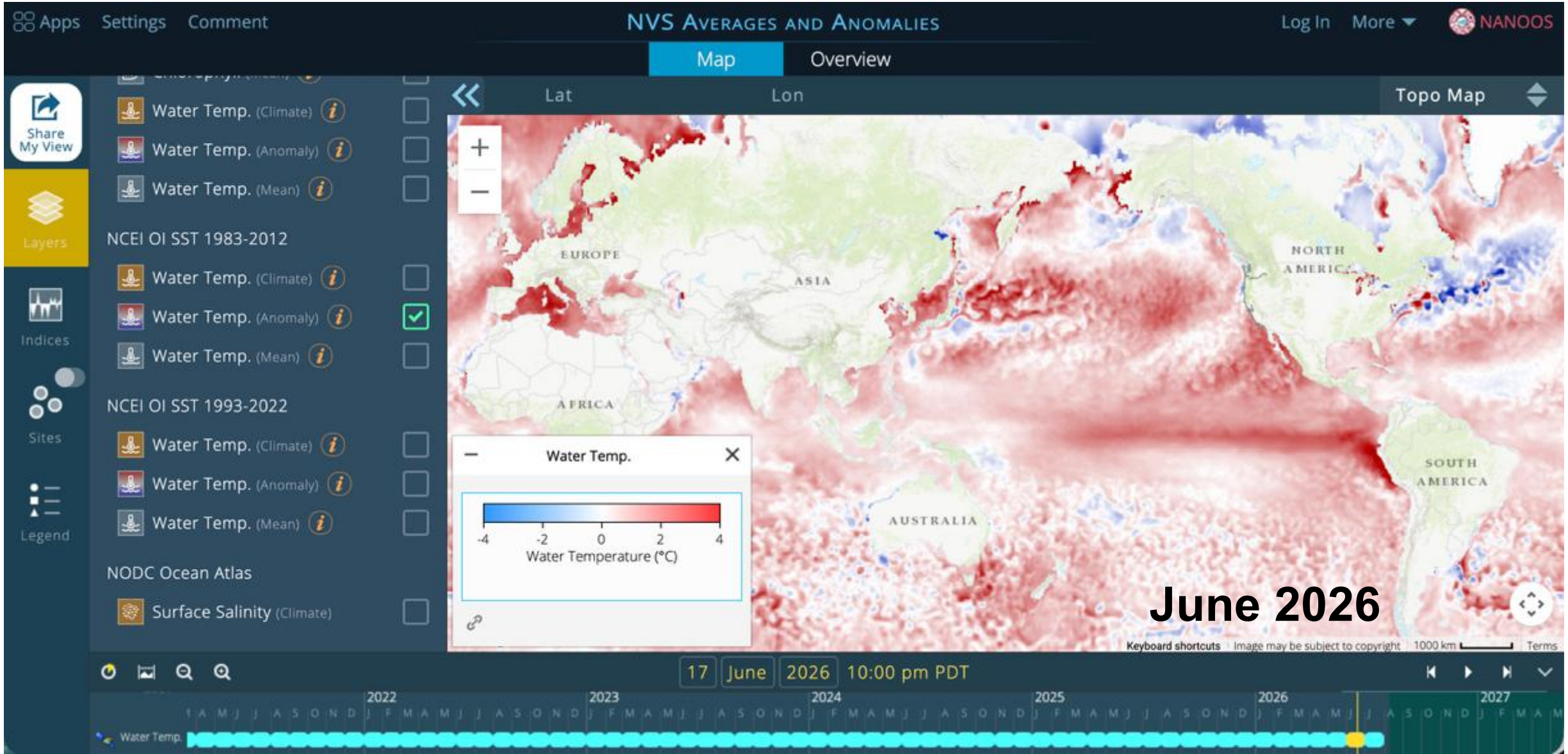
NCEI OI SST vs. 1983-2012



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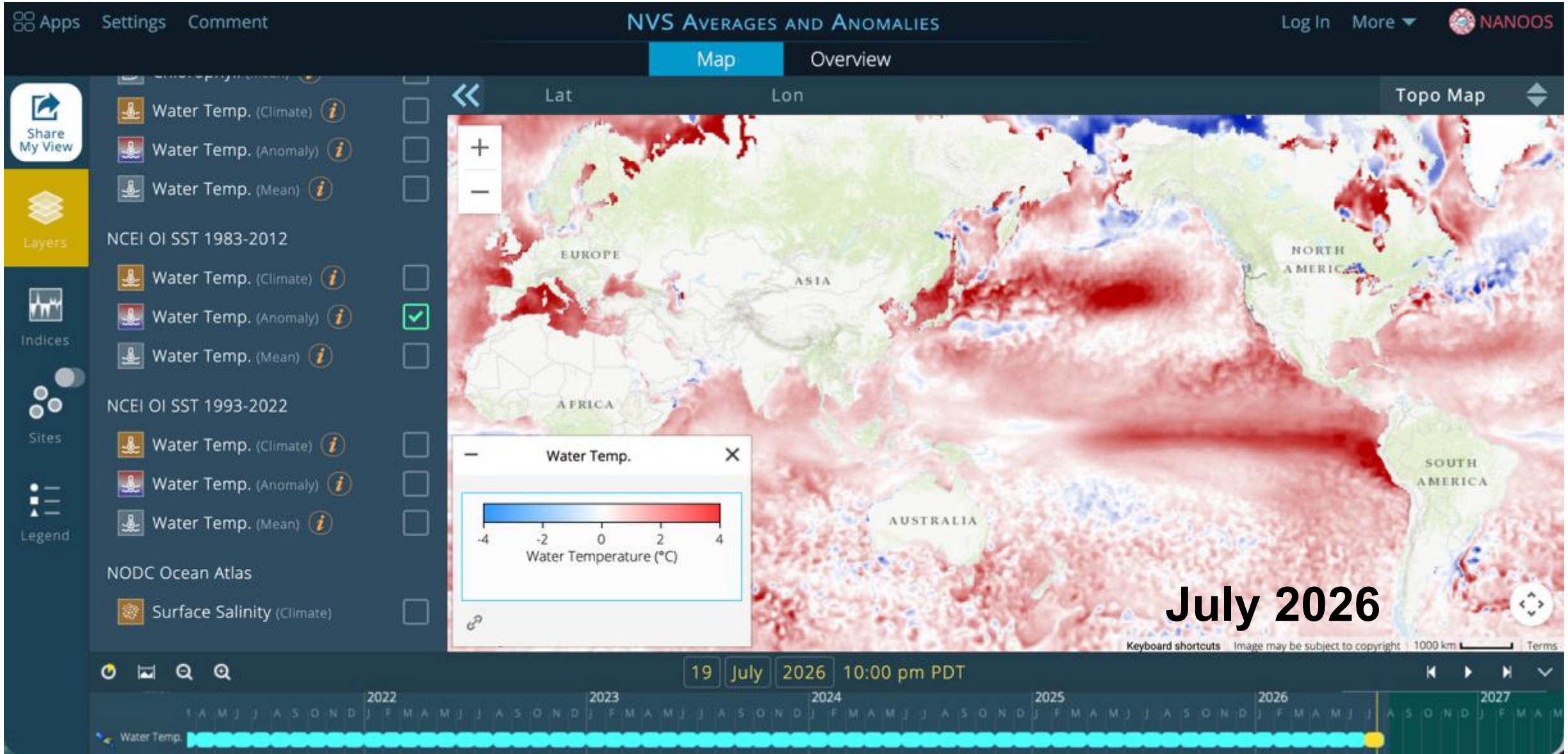
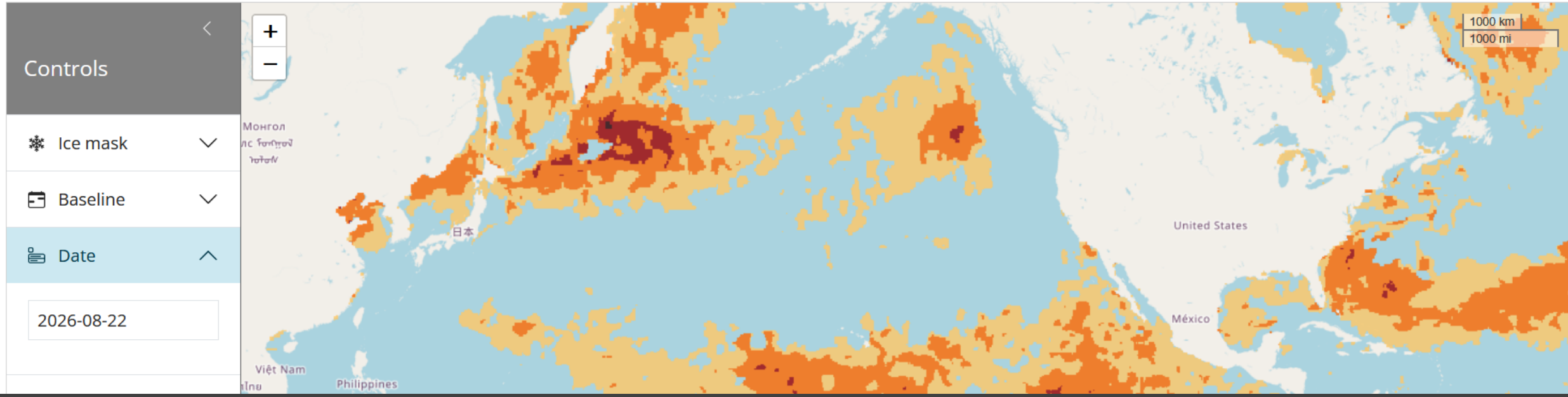


MARINE HEATWAVES International Working Group

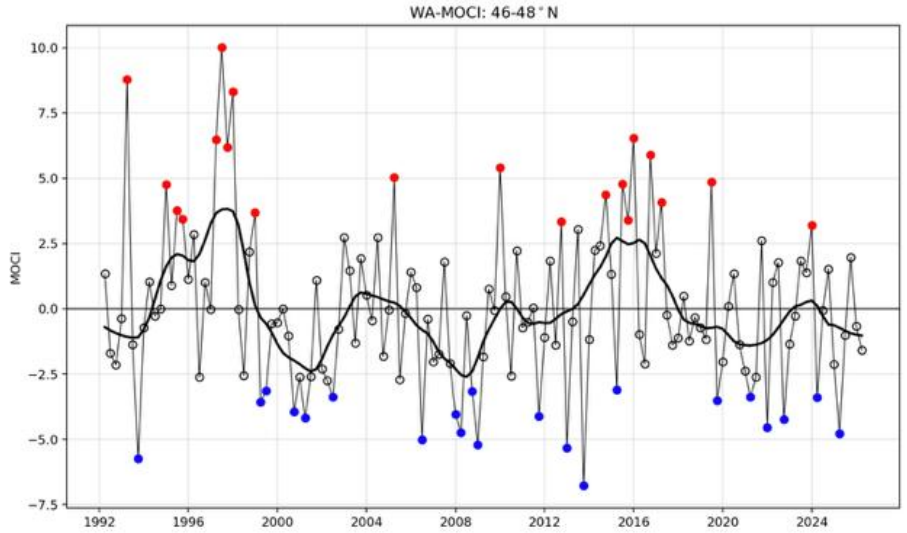
HOME | MHW OVERVIEW | MHW IMPACTS | REPORT MHW IMPACT | TRACKER | WORKSHOPS AND CONFERENCES | PUBLICATIONS | LITERATURE BROWSER | MEMBERS | CODE

Total cover	I Moderate	II Strong	III Severe	IV Extreme
%	%	%	%	%
34.77	22.53	10.66	1.45	0.13



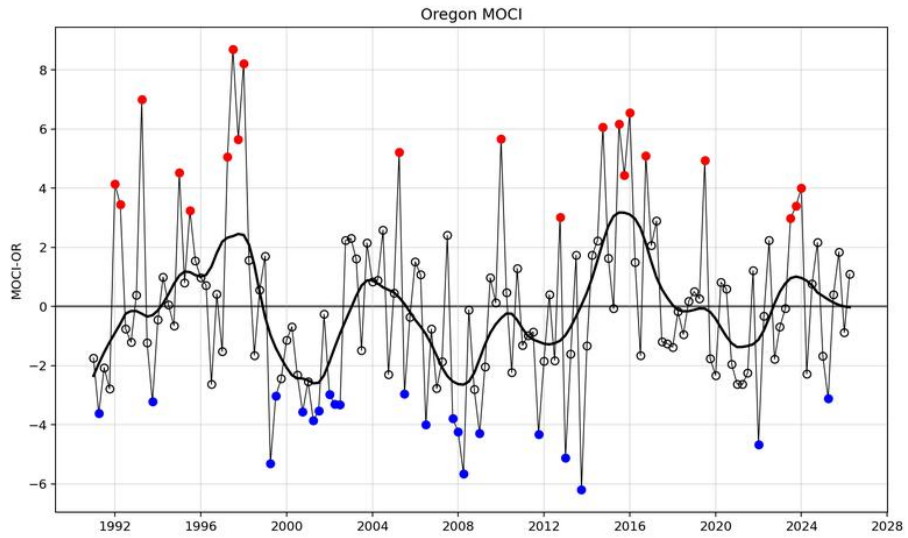
http://www.marineheatwaves.org/tracker.html

WA-MOCI: WASHINGTON MULTIVARIATE OCEAN CLIMATE INDICATOR



Please cite this dataset as:
García-Reyes, M., Koval, G., and Sydeman, W.J. (2025). Quinault Multivariate Ocean Climate Indicator (MOCI) [Data set, V2]. Farallon Institute website, http://www.faralloninstitute.org/moci-wa. Accessed [Date].

OR-MOCI: OREGON MULTIVARIATE OCEAN CLIMATE INDICATOR



Please cite this dataset as:
García-Reyes, M., Koval, G., and Sydeman, W.J. (2025). Oregon Multivariate Ocean Climate Indicator (MOCI) [Data set, V2]. Farallon Institute website, http://www.faralloninstitute.org/moci-or. Accessed [Date].

MOCI encompasses over 30 years, capturing warming events impacting the Northeast Pacific across decades, like El Niño and marine heatwaves. It also captures changes in timing and magnitude of the shift from downwelling to coastal upwelling, which impact temperature conditions. These conditions and their variability affect the marine ecosystem, therefore MOCI could be useful in ecosystem-based fisheries and wildlife management.

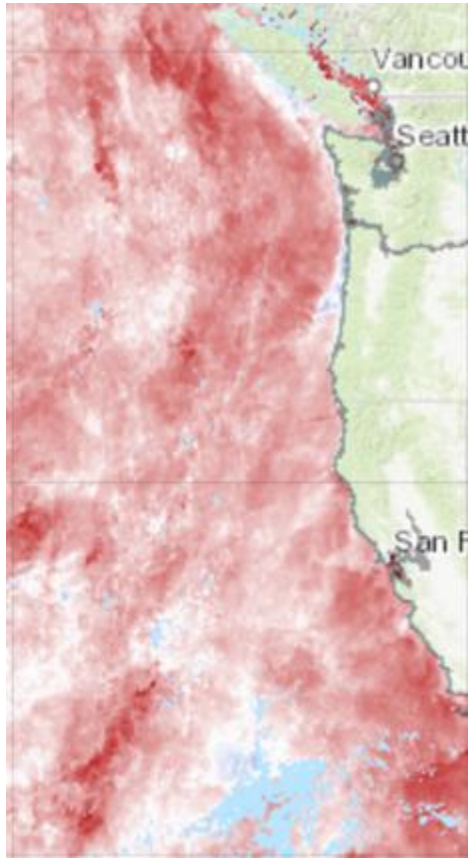
NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

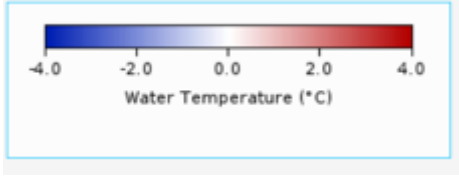
Climatology app:

Sea Surface Temperature Anomaly
OSU Modis

May 2026

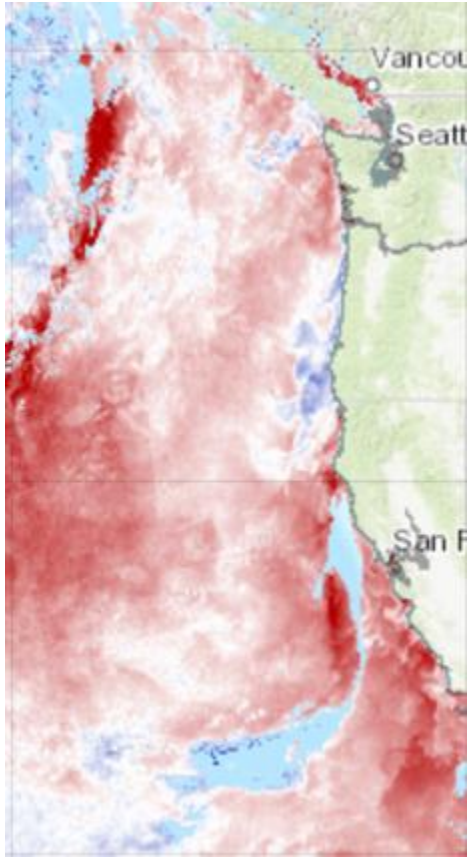
OSU MODIS vs. 2002-2012





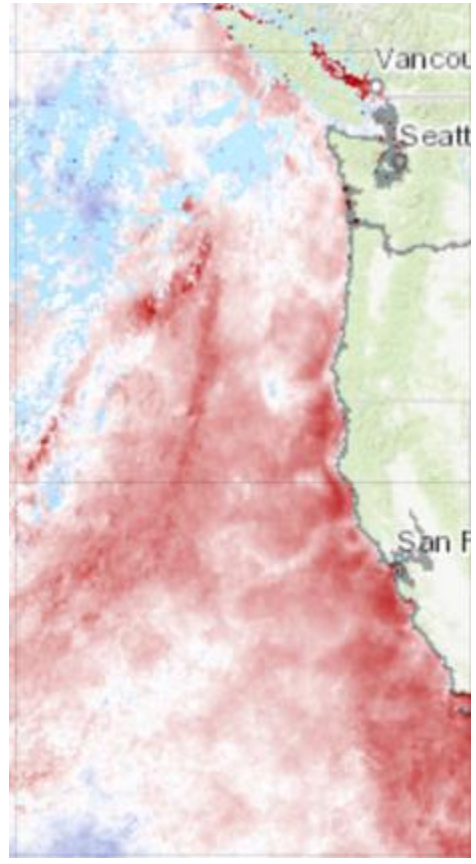
June 2026

OSU MODIS vs. 2002-2012



July 2026

OSU MODIS vs. 2002-2012

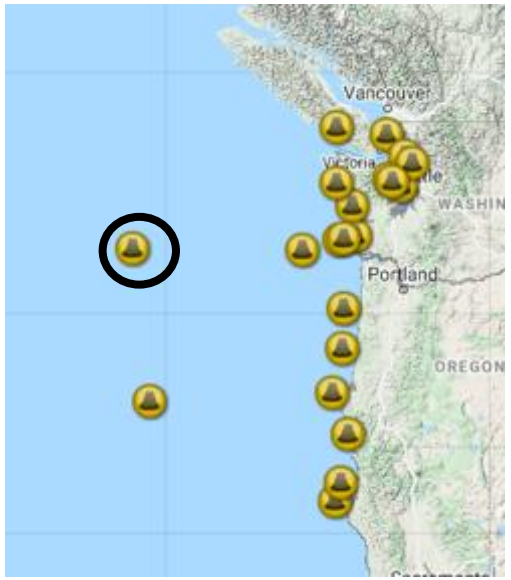


NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

Climatology app:

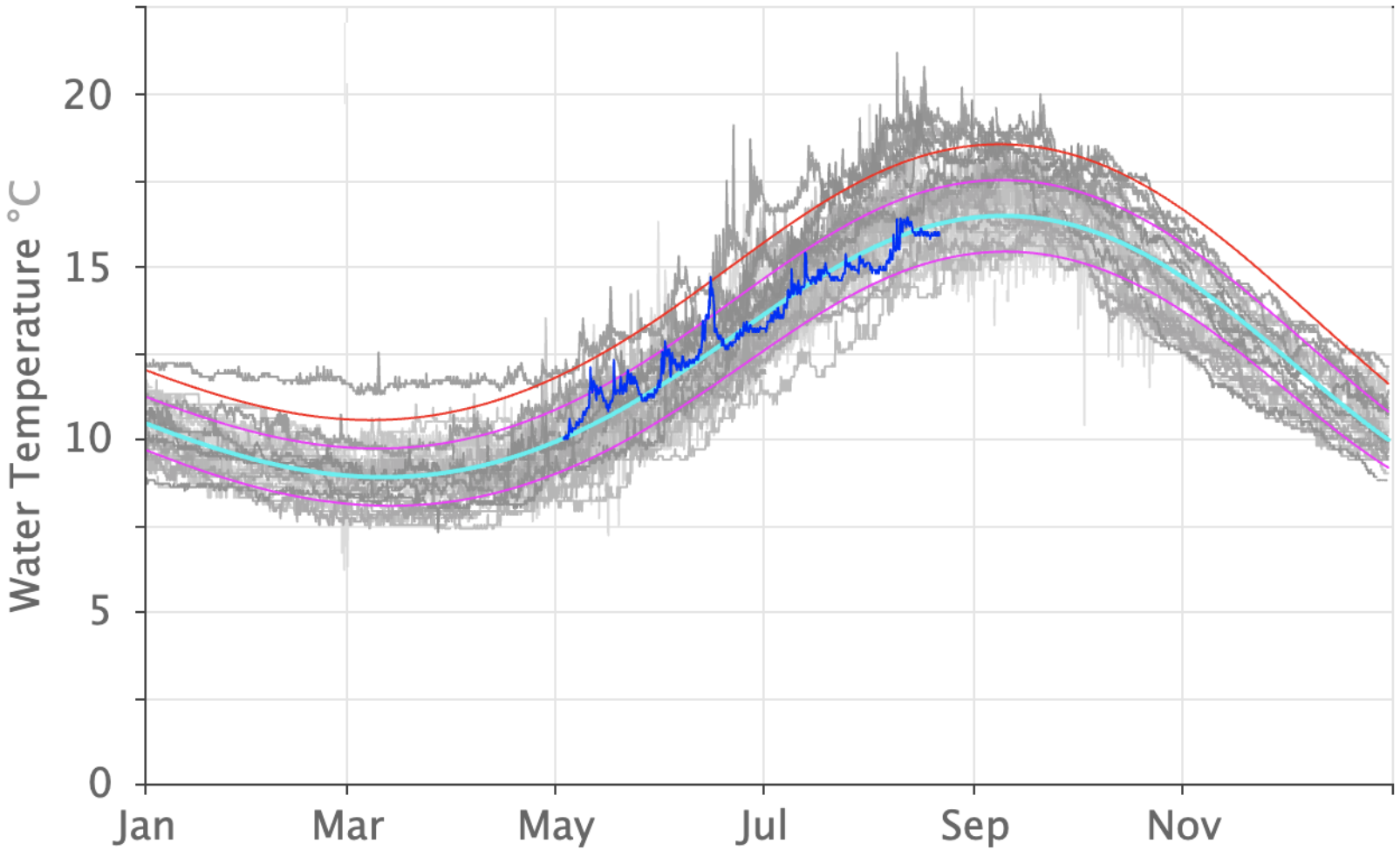
Sea Surface Temperature

~500 km



- Average 1976 - 2020
- -1 STD
- +1 STD
- +2 STD
- 2026

NDBC Washington



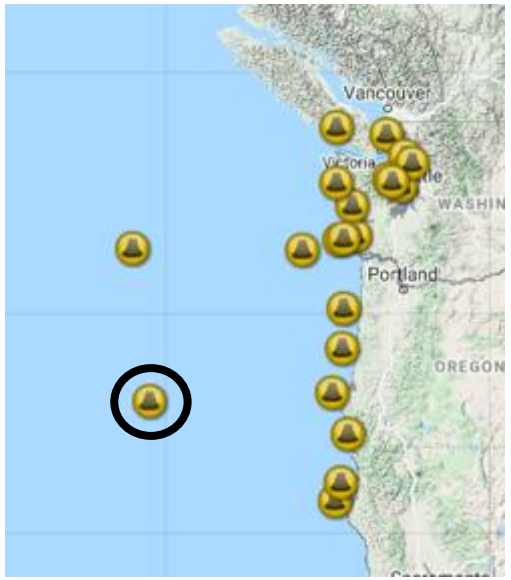
IOOS

NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

Climatology app:

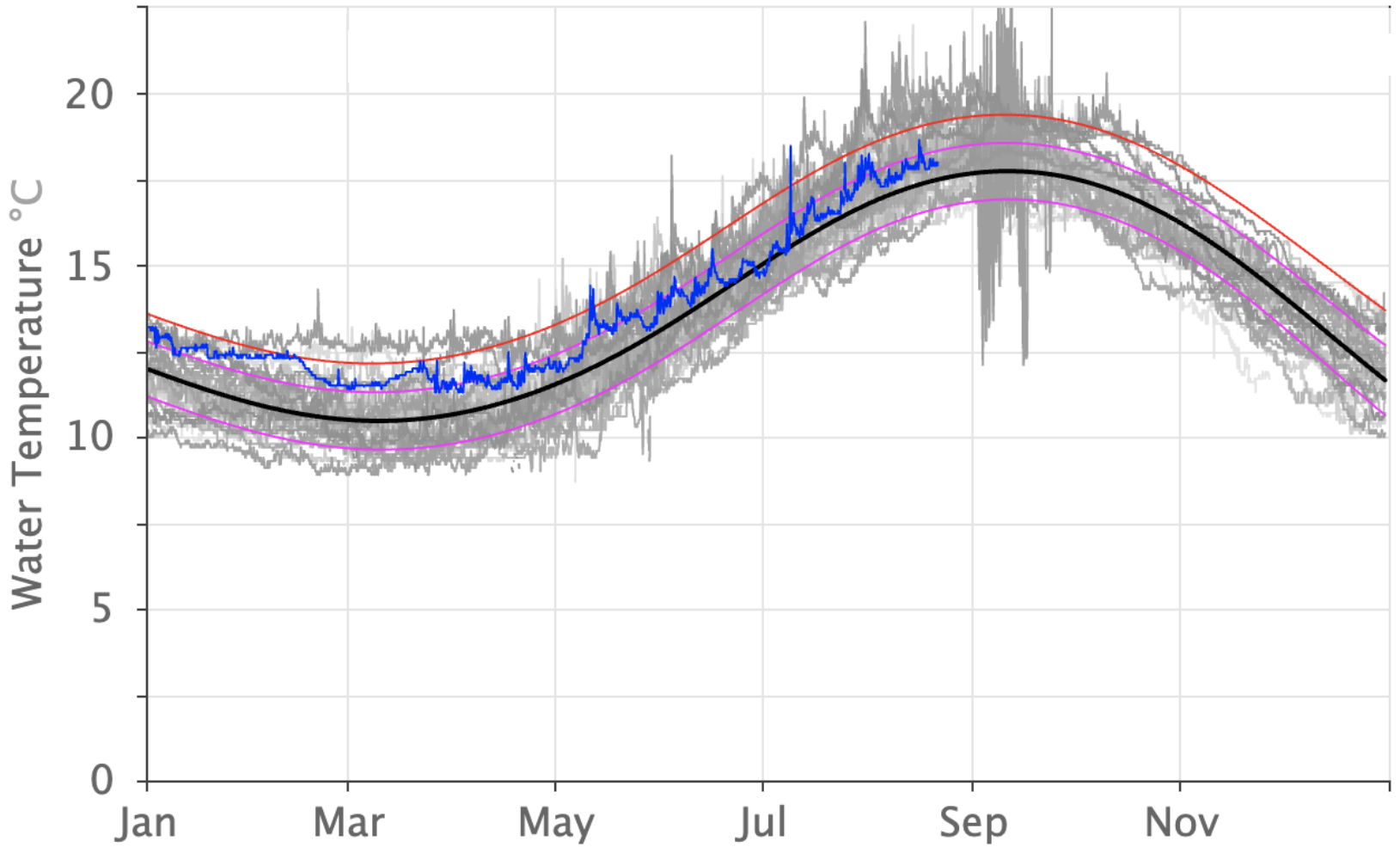
Sea Surface Temperature

~400 km



- Average 1975 - 2019
- -1 STD
- +1 STD
- +2 STD
- 2026

NDBC Oregon



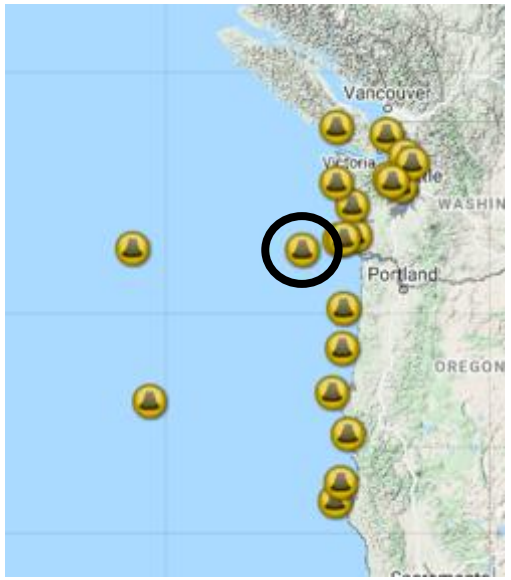
IOOS

NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

Climatology app:

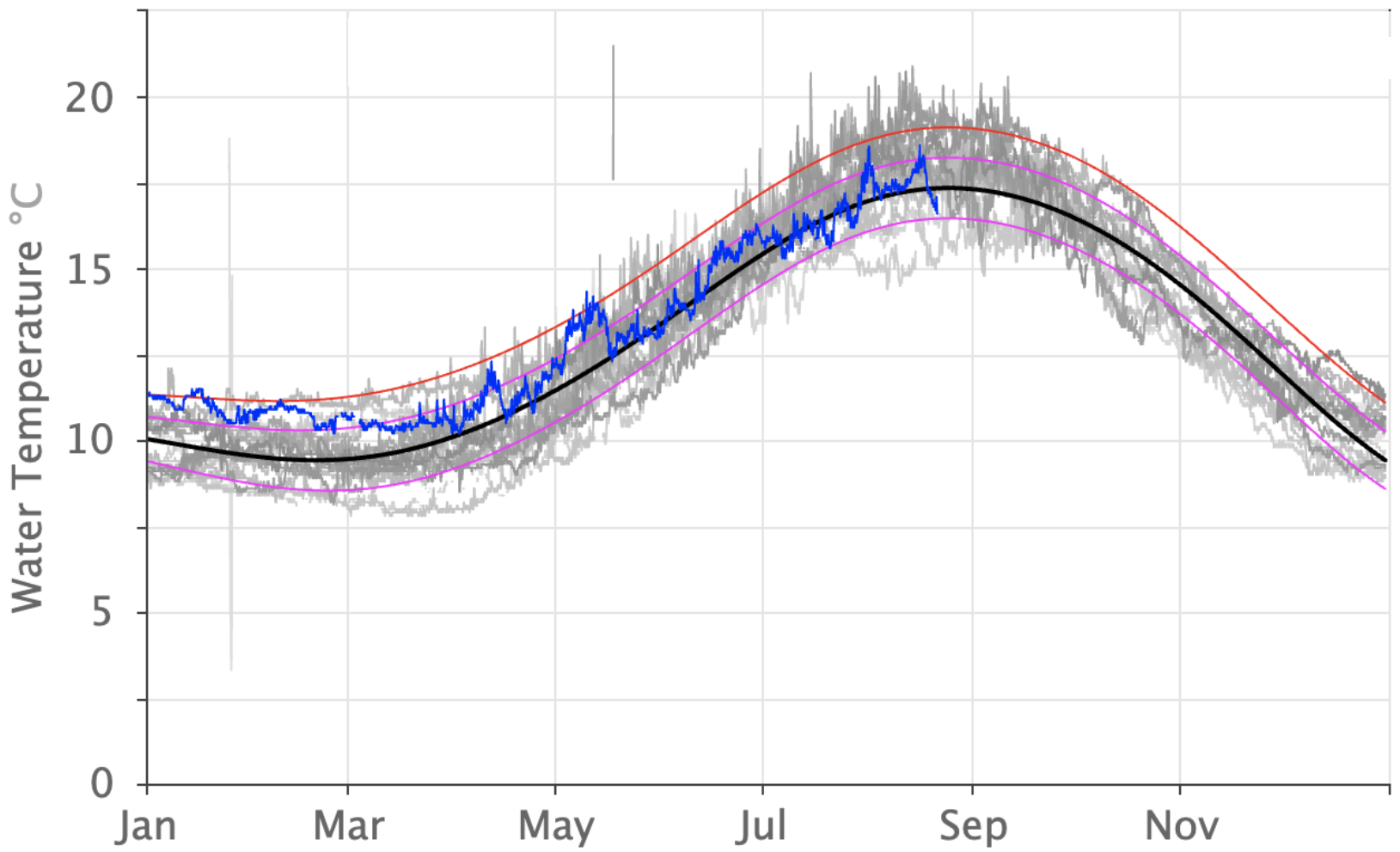
Sea Surface Temperature

~115 km



- Average 2004 - 2020
- -1 STD
- +1 STD
- +2 STD
- 2026
- 2025

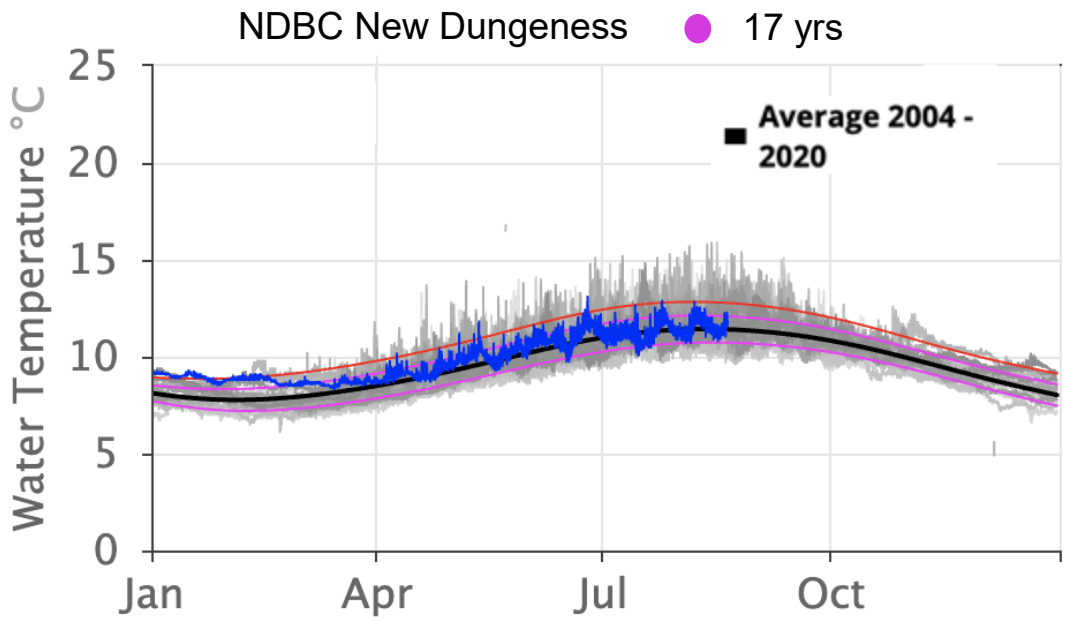
NDBC Tillamook

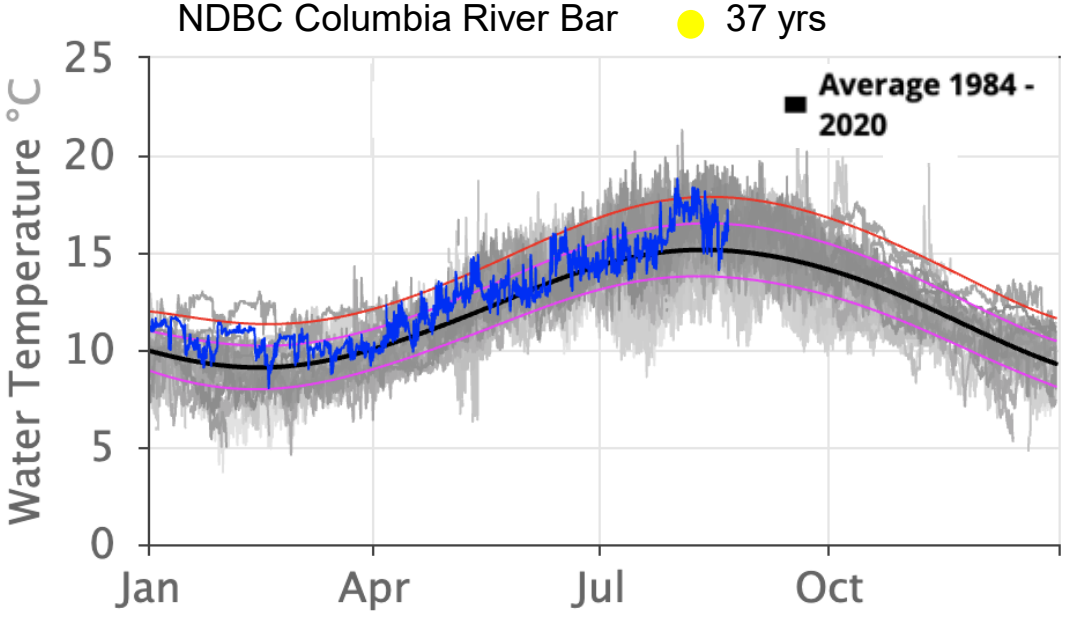


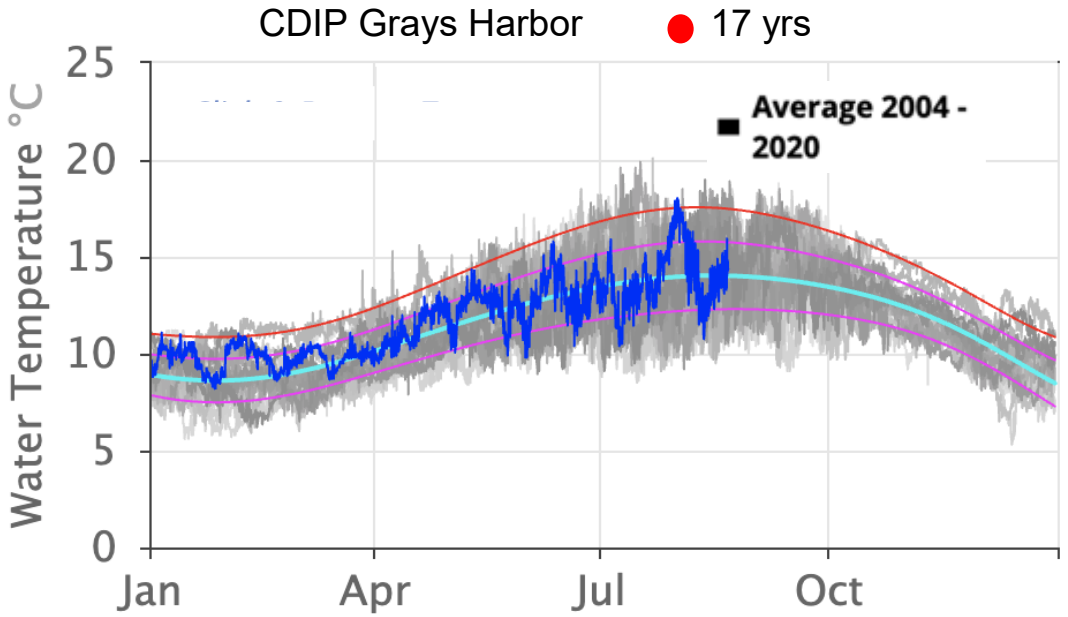
IOOS

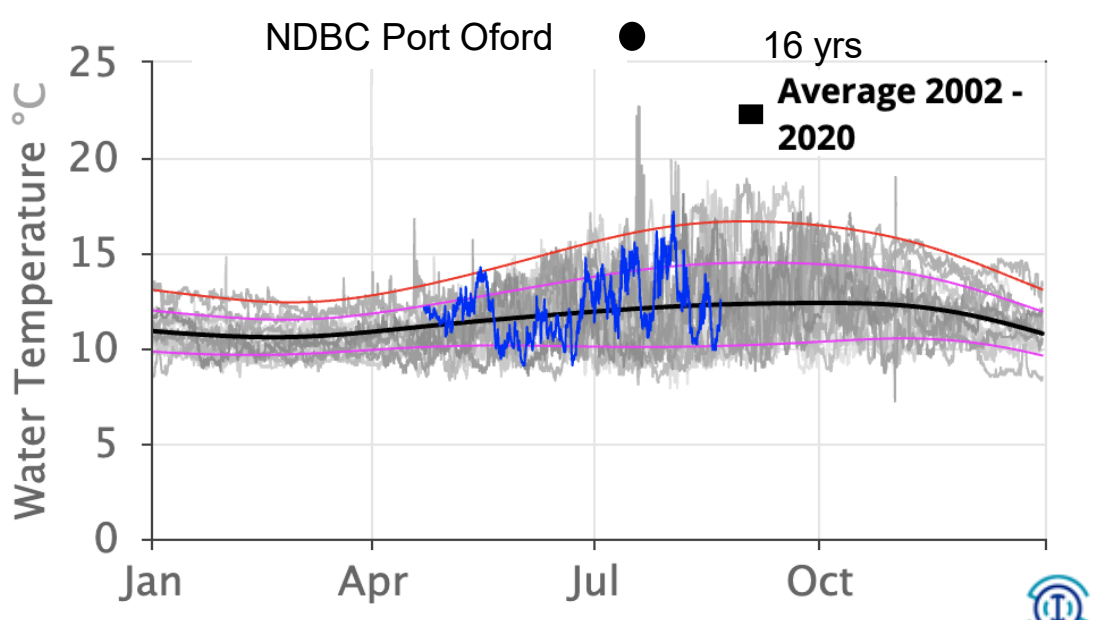
NANOOS: www.nanoos.org *Climatology app:* https://nvs.nanoos.org/Climatology

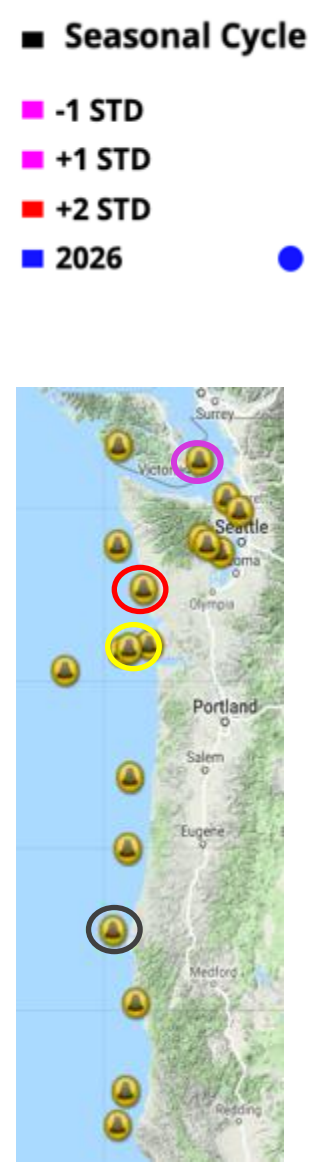
Sea Surface Temperature





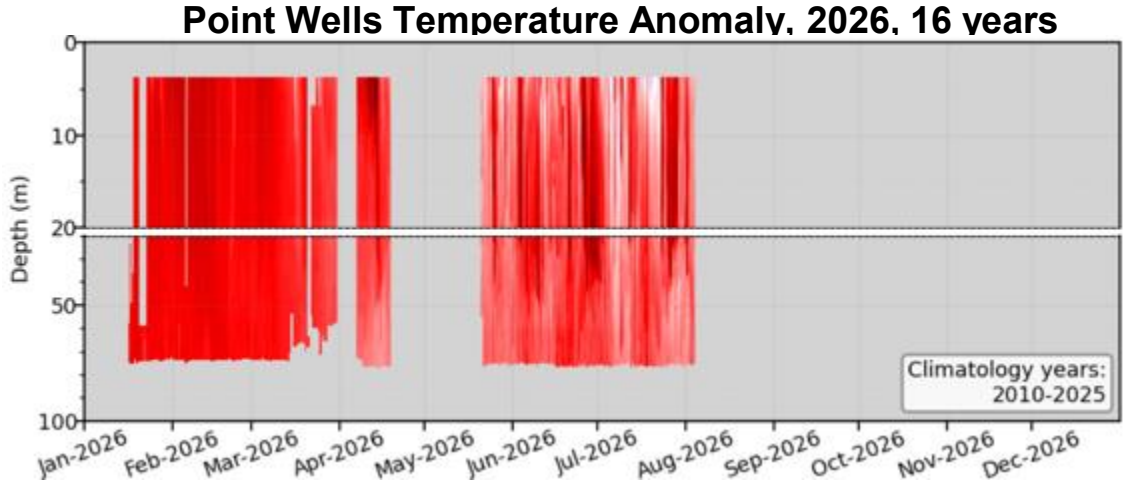


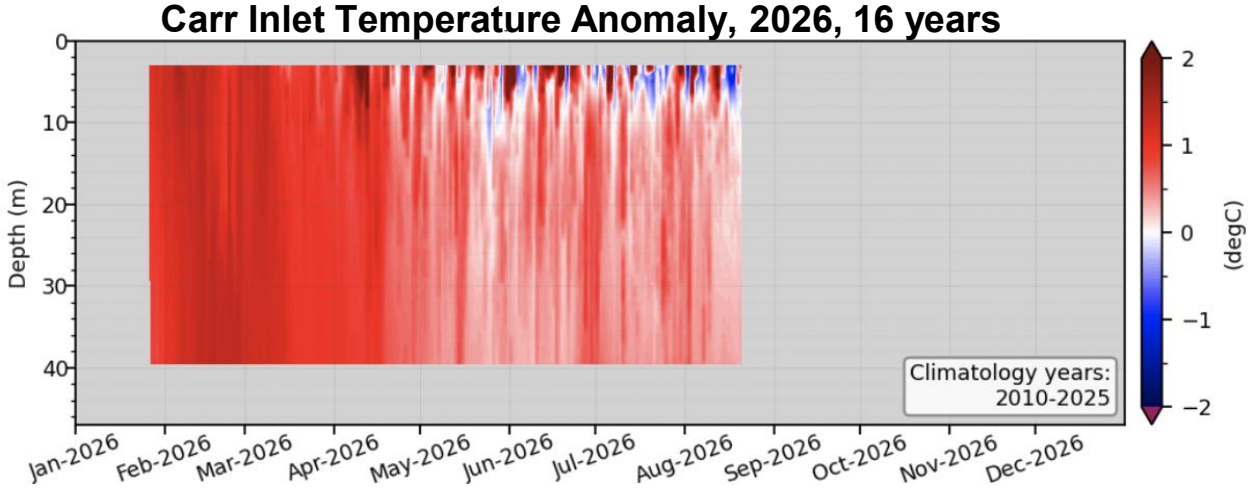


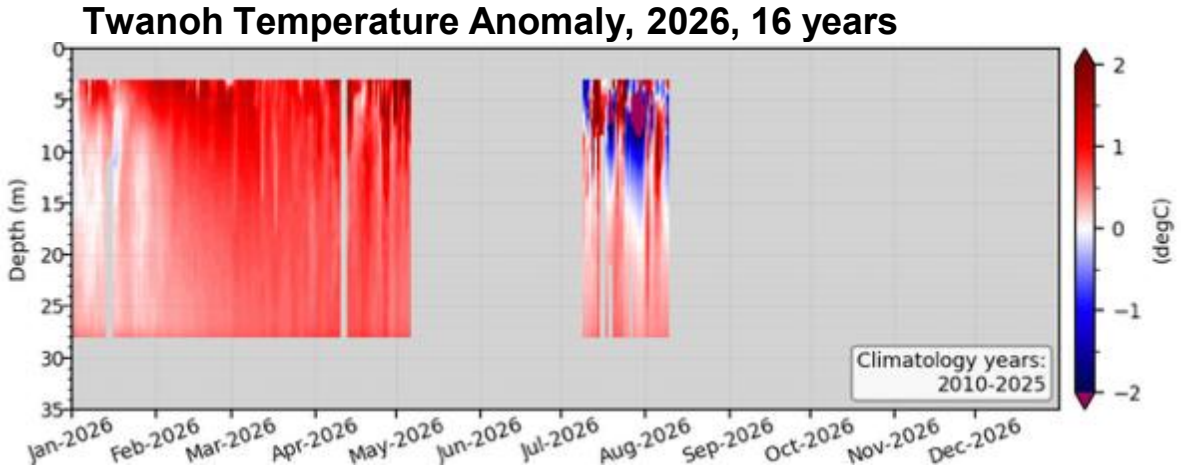


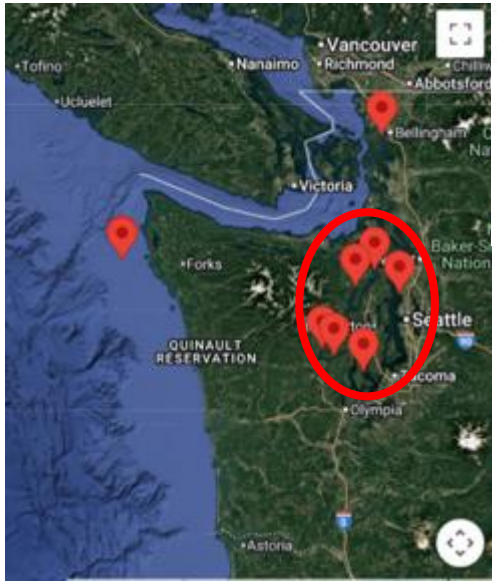
Temperature Anomalies

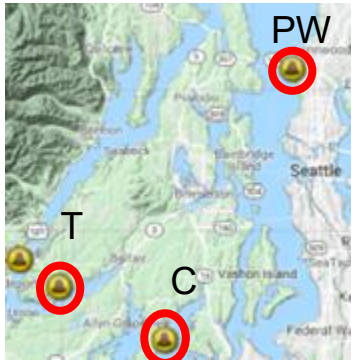
Puget Sound Profiling Buoys



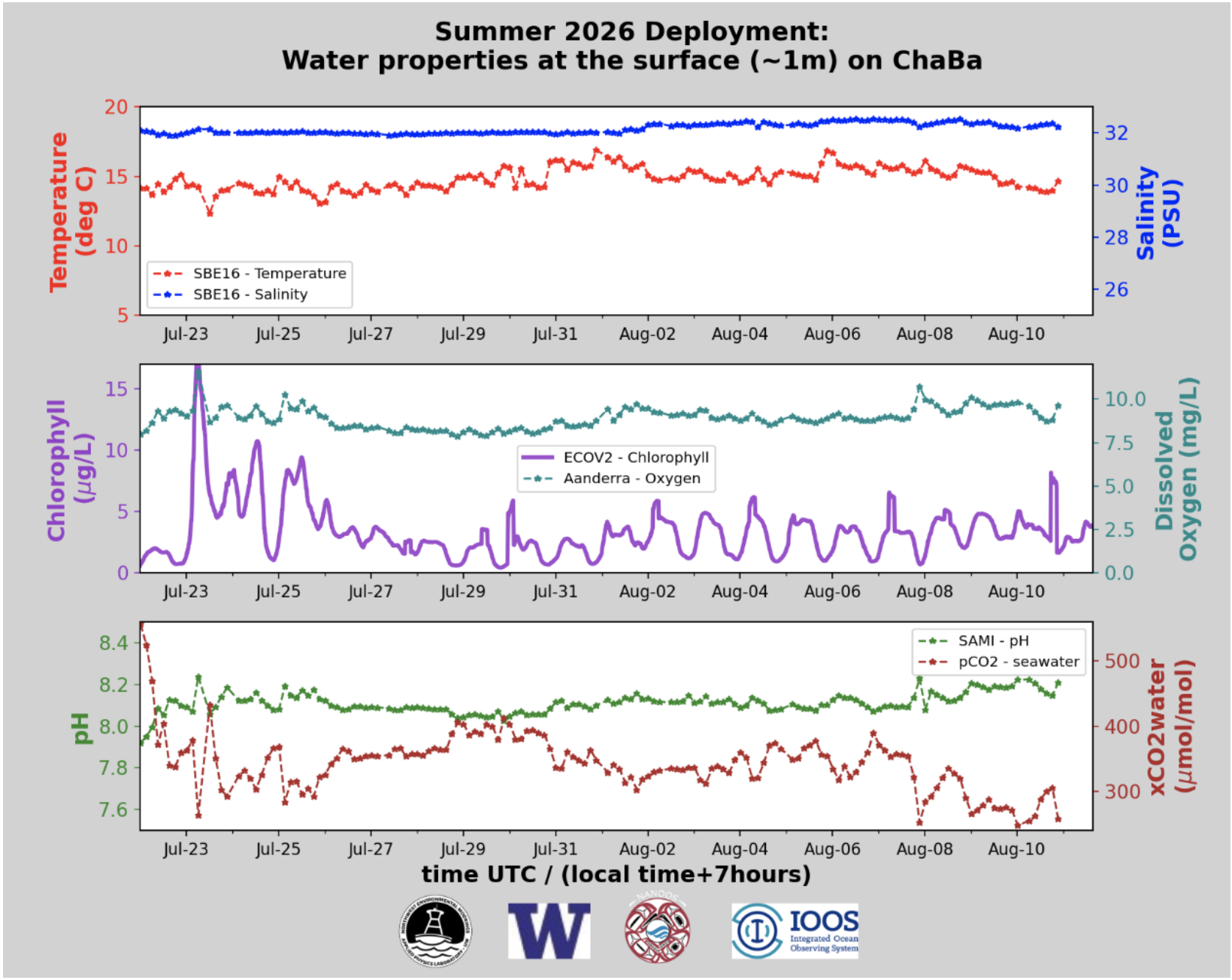


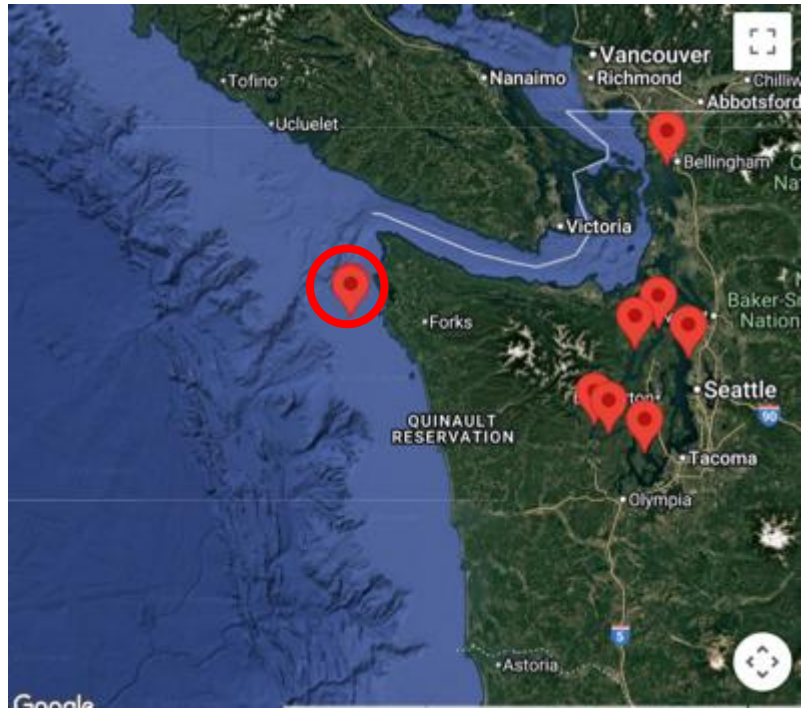






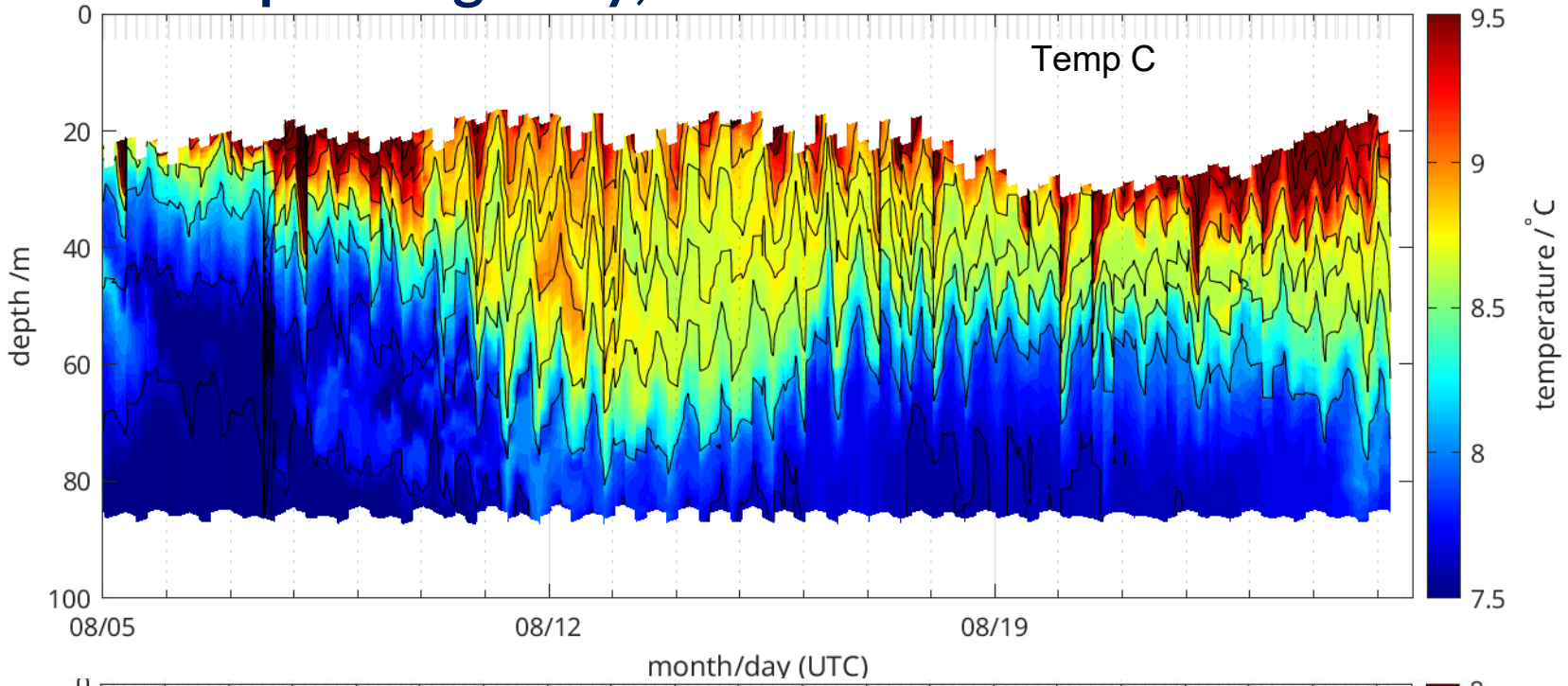
Cha'ba buoy, NANOOS and NOAA OAP support

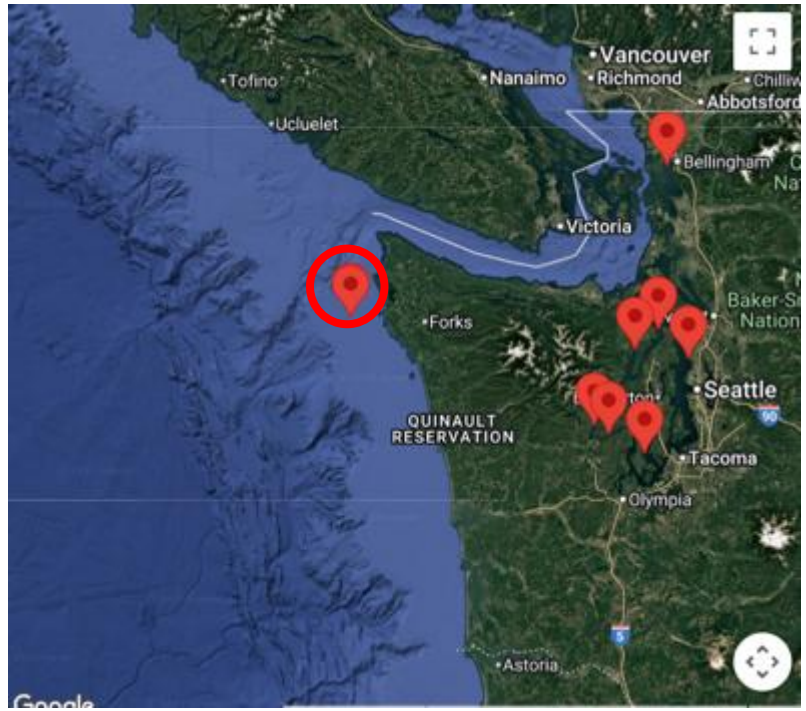


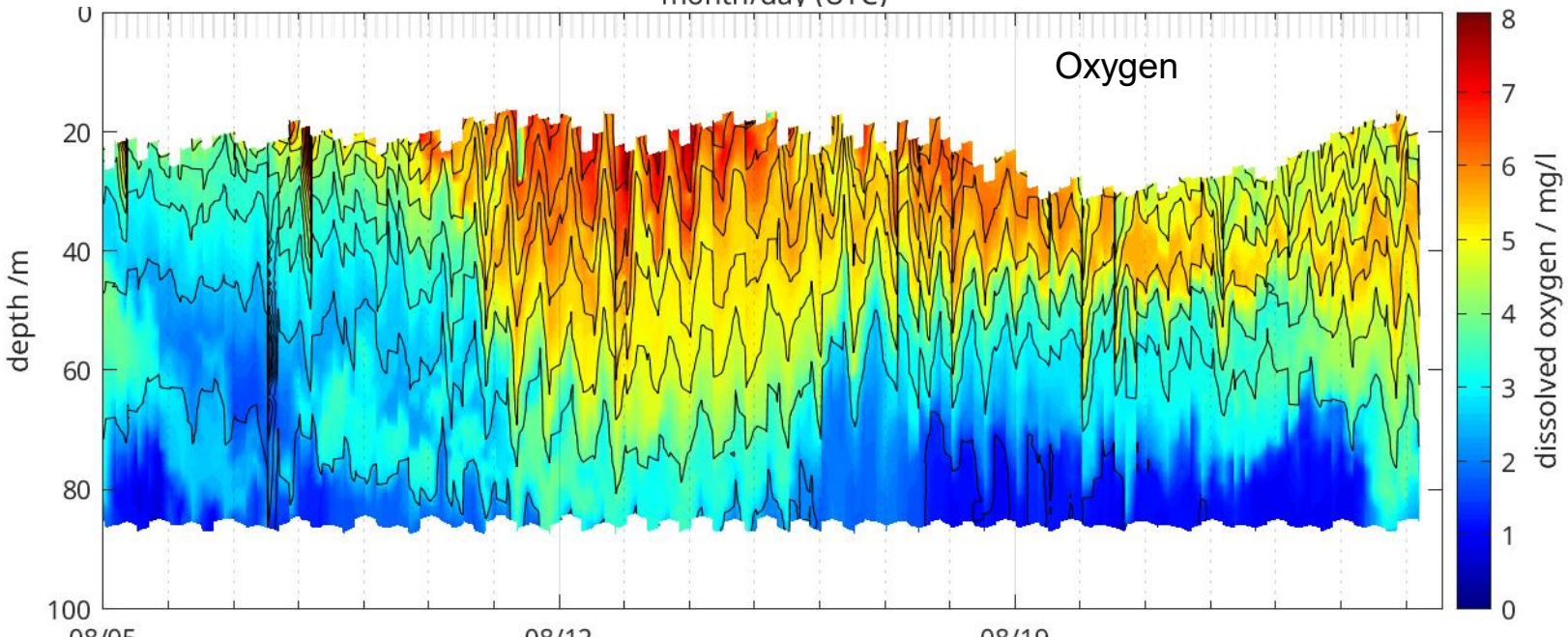


UW & PMEL

NEMO profiling buoy, NANOOS

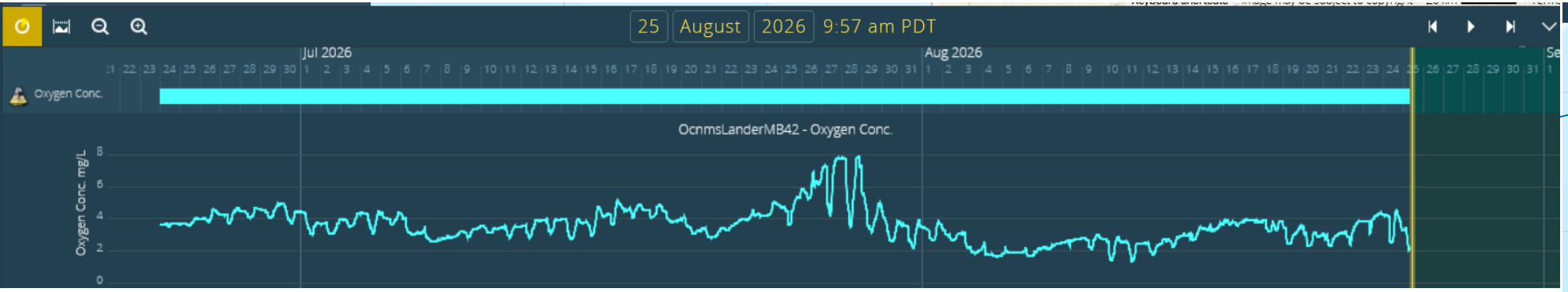


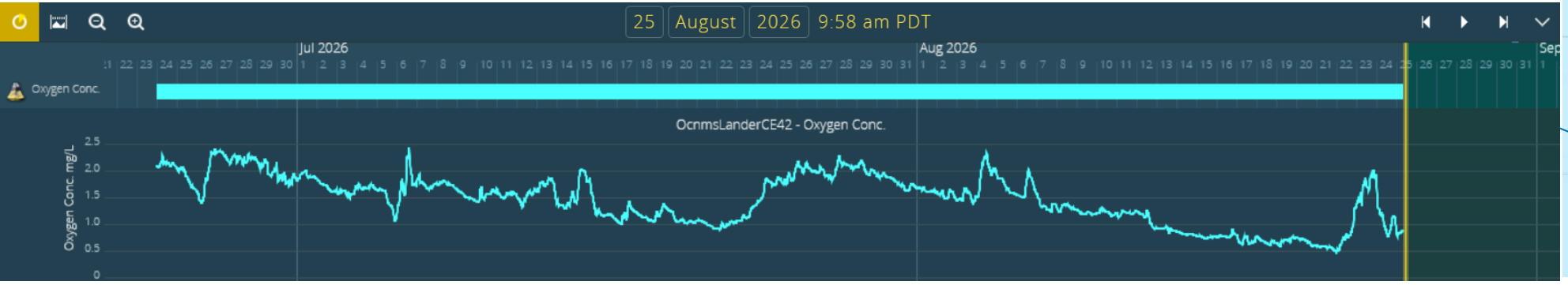


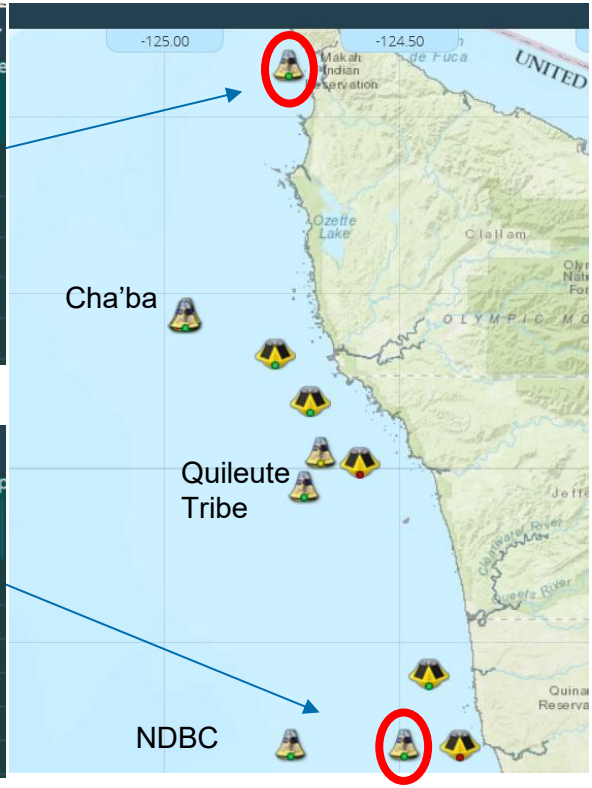


UW

NOAA Olympic Coast National Marine Sanctuary seasonal moorings deployed with near real-time capability





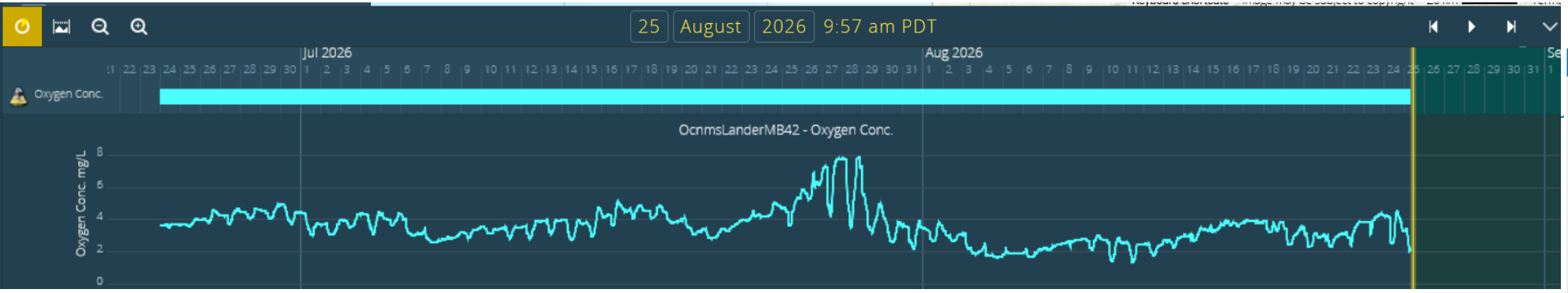


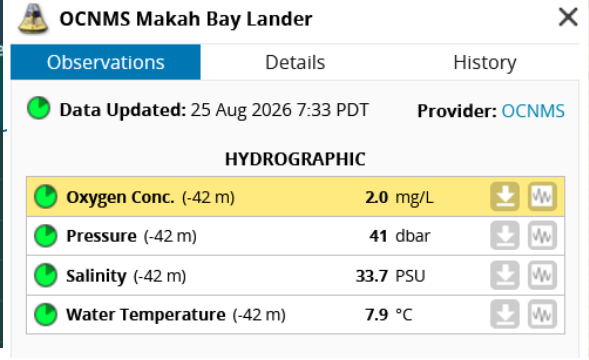
CLIMATE PROGRAM OFFICE
ADVANCING SCIENTIFIC UNDERSTANDING OF CLIMATE, IMPROVING SOCIETY'S ABILITY TO PLAN AND RESPOND

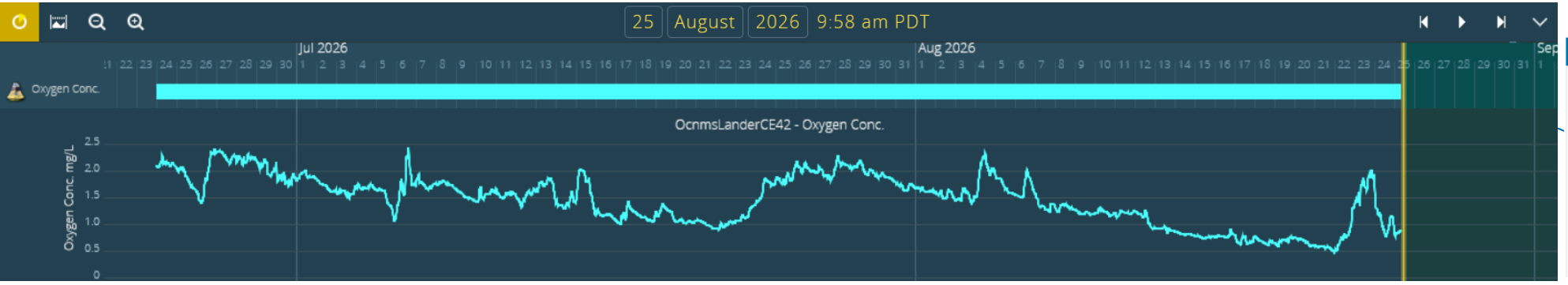
WOAC
WASHINGTON OCEAN ACIDIFICATION CENTER

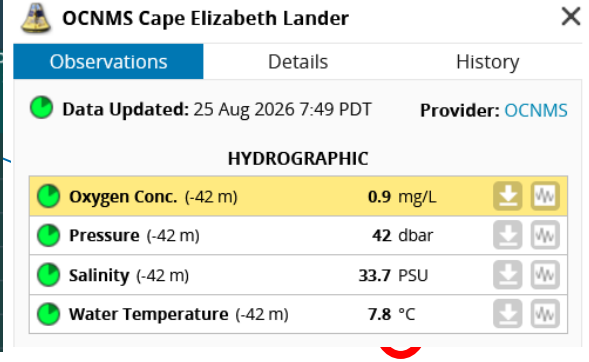
OLYMPIC COAST NATIONAL MARINE SANCTUARY

NOAA Olympic Coast National Marine Sanctuary seasonal moorings deployed with near real-time capability









CLIMATE PROGRAM OFFICE
ADVANCING SCIENTIFIC UNDERSTANDING OF CLIMATE, IMPROVING SOCIETY'S ABILITY TO PLAN AND RESPOND

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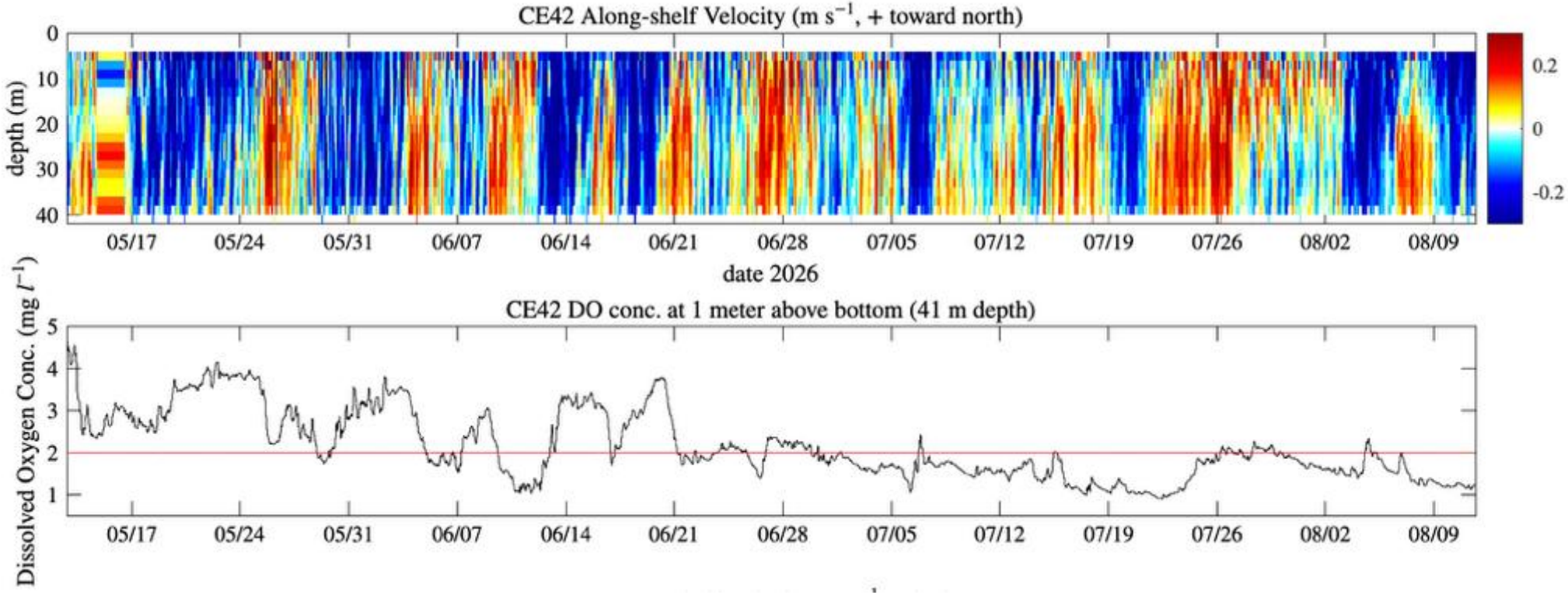
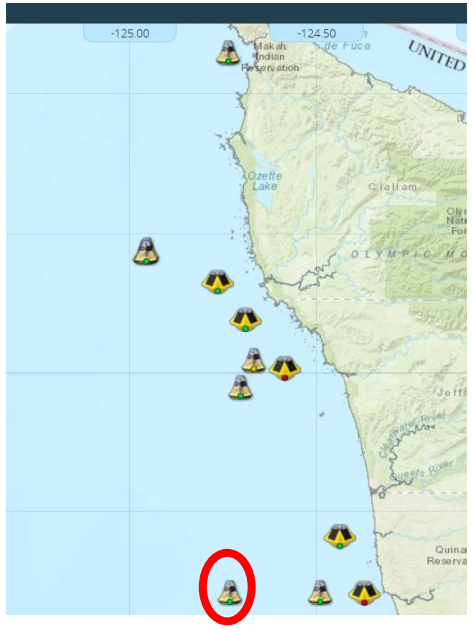
NOAA Olympic Coast National Marine Sanctuary seasonal moorings deployed with near real-time capability





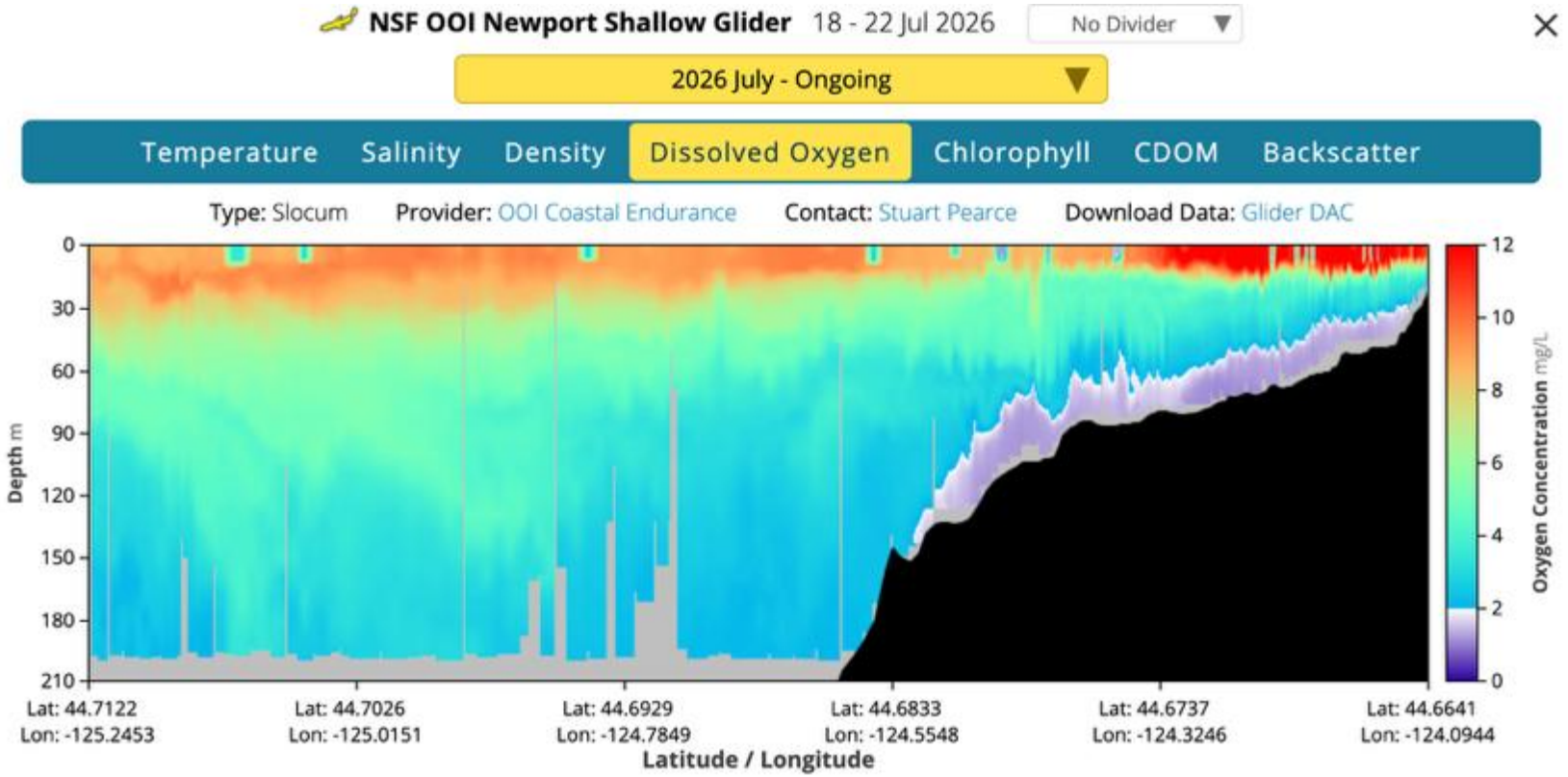
CLIMATE PROGRAM OFFICE
ADVANCING SCIENTIFIC UNDERSTANDING OF CLIMATE, IMPROVING SOCIETY'S ABILITY TO PLAN AND RESPOND

WOAC
WASHINGTON OCEAN ACIDIFICATION CENTER

OLYMPIC COAST NATIONAL MARINE SANCTUARY

Autonomous Vehicles App: https://nvs.nanoos.org/AutonomousVehicles

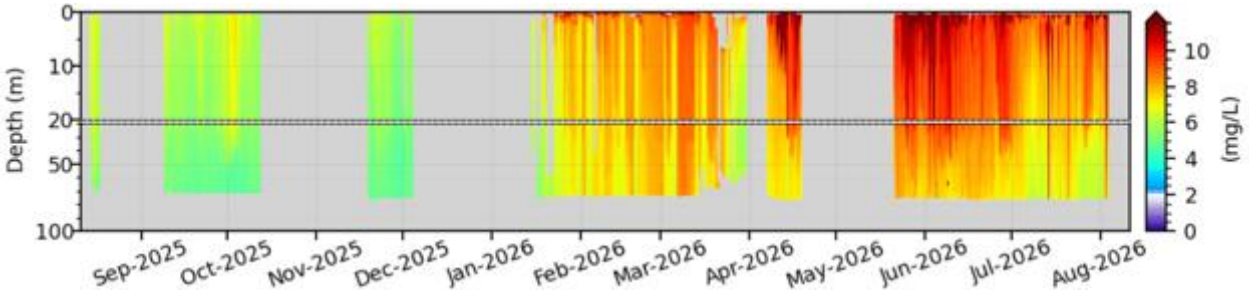
Dissolved Oxygen from Newport Shallow Glider



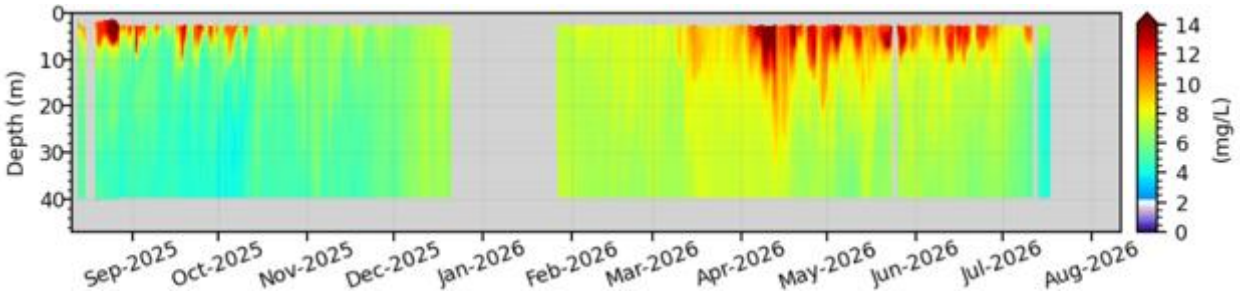
Dissolved Oxygen Concentration

Puget Sound Profiling Buoys

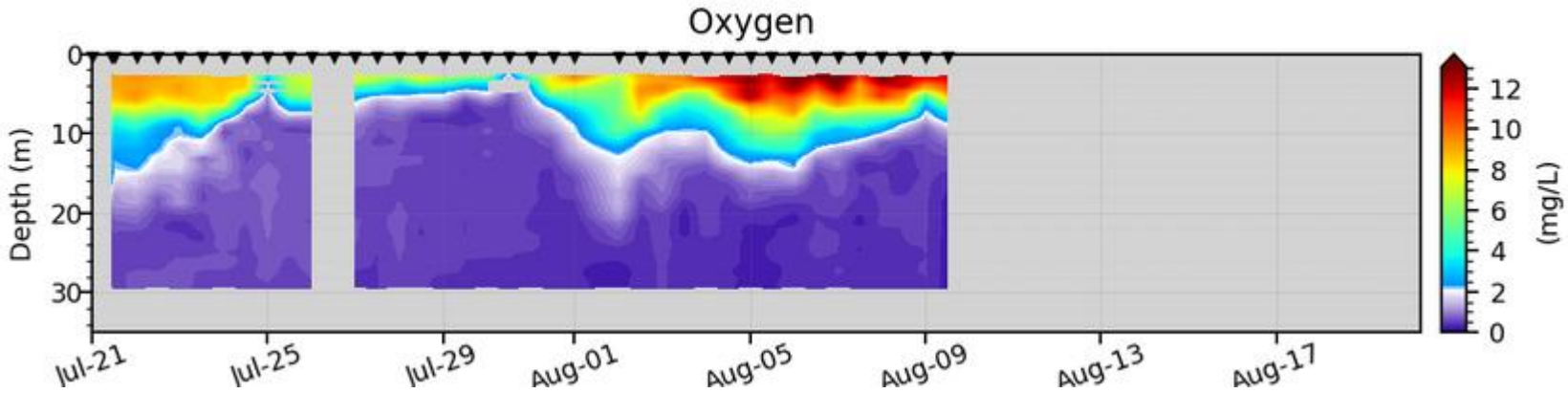
Point Wells Dissolved Oxygen Concentration, 2025-2026

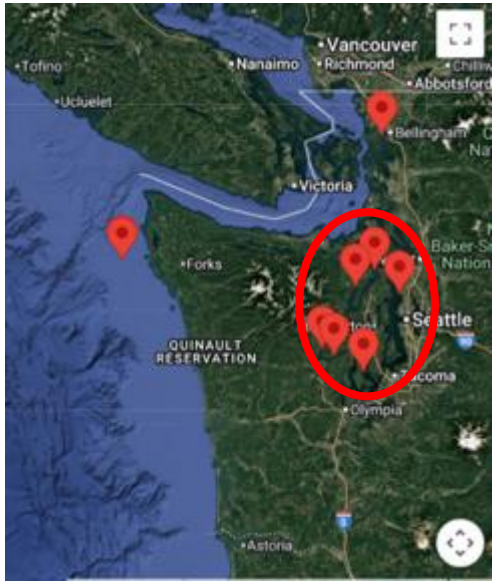


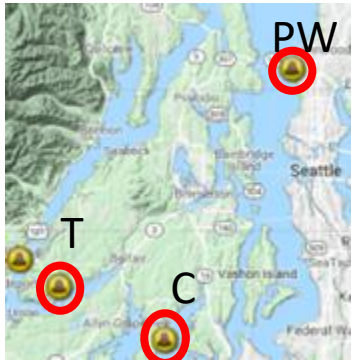
Carr Inlet Dissolved Oxygen Concentration, 2025-2026



Twanoh: Last 30 days







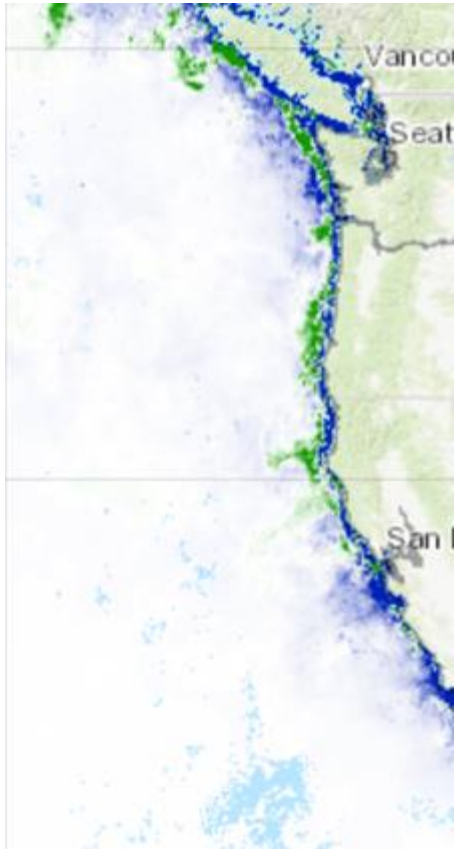
NANOOS: www.nanoos.org
https://nvs.nanoos.org/Climatology

Climatology app:

Chlorophyll Anomaly
OSU Modis

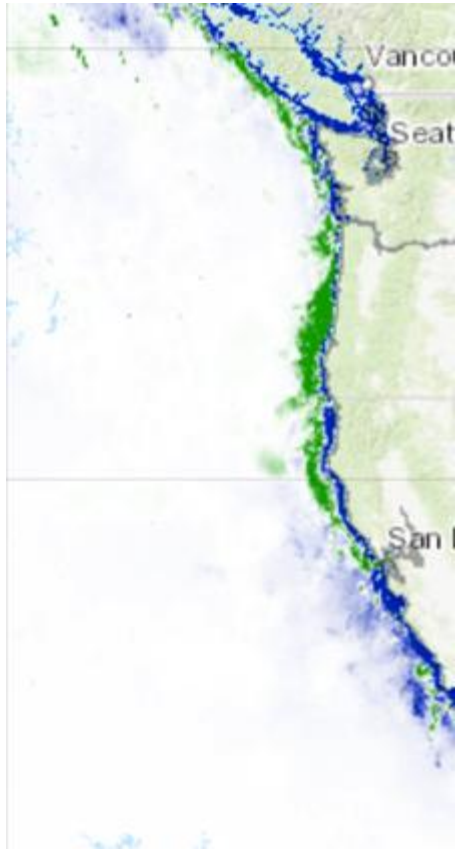
May 2026

OSU MODIS 2002-2012



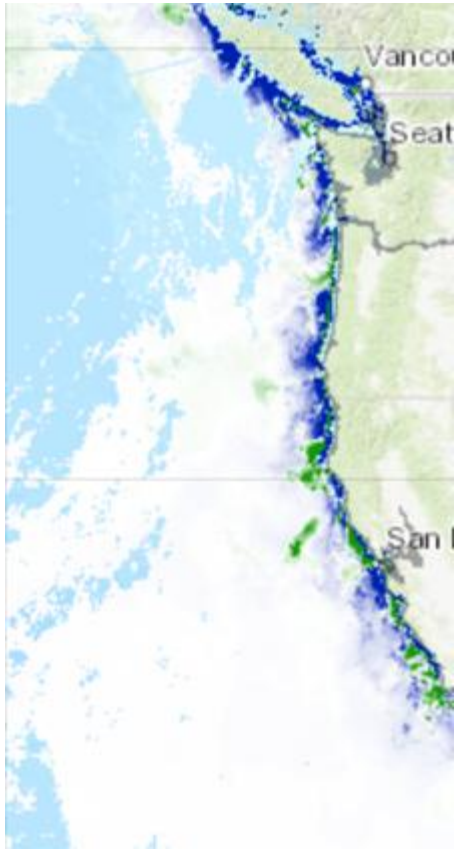
June 2026

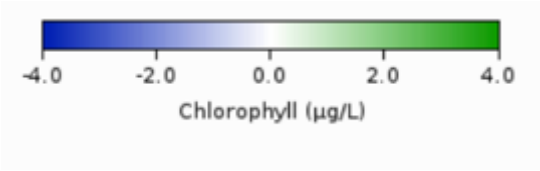
OSU MODIS 2002-2012



July 2026

OSU MODIS 2002-2012





HAB reports from ORHAB partners

IOOS NHABON, NCCOS MERHAB, ORHAB partners

- In Oregon, pDA was up to over 200 (action limit) in some places during late June. In July, *Pseudo-nitzschia* numbers were still high but pDA went down below 200. *Pseudo-nitzschia* decreased a little bit later in the month. Similar trend in August.
- For much of the summer, *Pseudo-nitzschia* were the dominant taxa.
- Currently, the Oregon Department of Agriculture website states: "The sport harvest of razor clams is **CLOSED** from Cape Blanco to the California border for high levels of the marine biotoxin domoic acid."

- In Washington, *Pseudo-nitzschia was* been present and above the action limit off and on, and producing pDA, but in low concentrations in May. *Pseudo-nitzschia* increased throughout June, producing more pDA but never very high. *Dinophysis* and *Alexandrium* increased; Willapa Bay closed in late July for recreational shellfish harvest due to record high DSP toxin in mussels from Tokeland Marina. *Pseudo-nitzschia* went down at the end of July but up in August.
- The whole Washington coast is closed to shellfish right now because of biotoxins according to the DOH biotoxin map.

		DA ng/L	PN total per L
S	TH042	267.84	346,000
	TH015	244.26	622,000
	MB015	94.44	166,000
	MB042	83.51	69,000
	KL015	219.13	172,000
	KL027	360.52	156,000
	CE042	354.22	196,000
	CE015	400.47	242,000
	CA015		39,000
N	CA042		9,000

To summarize:

Concern for:

- **Heat**
- **Hypoxia**
- **HABs**

To summarize:

Heat: Temperature & MHWs

- No MHW offshore PNW coast, weakly positive heat anomalies. Offshore buoy temperatures around average in Washington, between average and 1 SD in Oregon.
- Closer to shore, temperature variable depending on location. Positive temperature anomaly spike at the end of July/beginning of August went up to 2 SD at all locations.
- Puget Sound temperatures mostly warmer than average throughout water column, weaker than at beginning of year.

Hypoxia: Oxygen

- Hypoxia on the shelf and in Hood Canal. All shelf moorings show hypoxia, worst to south. Hood

HABs: Blooms & HAB Toxins

- Satellite ocean color below average in July.
- In both Washington and Oregon, there have been HAB species present and in high abundances throughout the summer.
- The Washington coast is currently closed to most shellfish harvesting.
- The Southern Oregon coast is currently closed to razor clam harvesting.

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