

OOI Data Explorer Demonstration

dataexplorer.oceanobservatories.org



OCEAN
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Brian Stone



OOI Data Explorer

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[Interactive Data Views](#)

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Welcome to the Ocean Observatories Initiative Data Explorer, where you can:

- [Search and download cabled, uncabled, and recovered data for physical, chemical, geological, and biological observations from the field](#)
- [Compare datasets across regions and disciplines](#)
- [Generate and share custom data views](#)
- [Download full datasets using ERDDAP](#)



<https://dataexplorer.oceanobservatories.org/#go-to-data-access>

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OOI Data Explorer

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Select a global array and one or more filters. Press the 'Go' button to see results.

Oregon Coast: Regional Cabled Array

Oregon and Washington Coast: Coastal Endurance

Gulf of Alaska: Global Station Papa

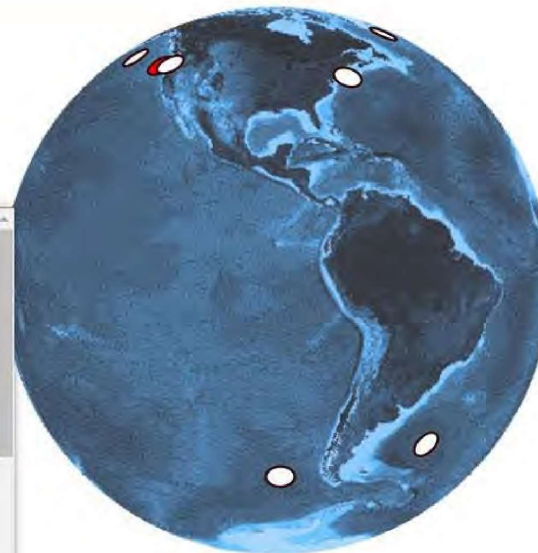
East Coast: Coastal Pioneer

North Atlantic: Global Irminger Sea

South Atlantic: Global Argentine Basin
Discontinued in 2018

South Pacific: Global Southern Ocean
Discontinued in 2020

- All instrument types
- 3-D Single Point Velocity Meter
- ADCP
- Benthic Fluid Flow
- Bottom Pressure and Tilt
- Broadband Acoustic Receiver (Hydrophone)
- Broadband Ocean Bottom Seismometer
- CTD
- Diffuse Vent Fluid 3-D Temperature Array
- Digital Still Camera
- Dissolved Oxygen
- Fluorometer
- HD Digital Video Camera
- Horizontal Electric Field, Pressure and Inverted Echo Sounder
- Hydrothermal Vent Fluid In-situ Chemistry
- Hydrothermal Vent Fluid Interactive Sampler
- Hydrothermal Vent Fluid Temperature and Resistivity
- Low Frequency Acoustic Receiver (Hydrophone)
- Mass Spectrometer
- Nitrate



Select area(s) of interest

All platform types 5 All instrument types 29 All parameters 65

Go

Advanced: All data in searchable interface

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Select a global array and one or more filters. Press the 'Go' button to see results.

- Oregon Coast: Regional Cabled Array
- Oregon and Washington Coast: Coastal Endurance
- Gulf of Alaska: Global Station Papa
- East Coast: Coastal Pioneer
- North Atlantic: Global Irminger Sea
- South Atlantic: Global Argentine Basin
- South Pacific: Global Southern Ocean



Select area(s) of interest

All platform types 7 All instrument types 35 All parameters 112

Go

Advanced: All data in searchable interface

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Regional Cabled Array

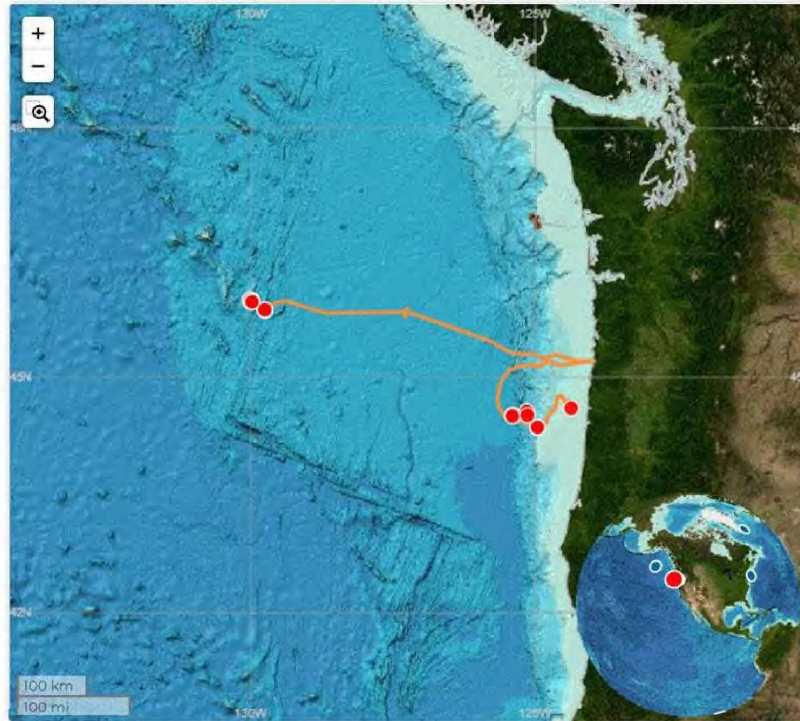
Overview | More information | Nodes | Instrument types | Parameters | Platform types

Sites and Platforms

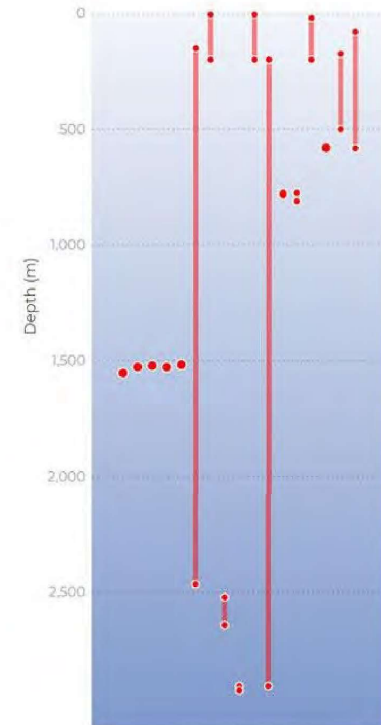
- ASHES Vent Field
- Axial Base Deep Profiler Mooring
- Axial Base Seafloor
- Axial Base Shallow Profiler Mooring
- Central Caldera
- Eastern Caldera
- International District Vent Field 1
- International District Vent Field 2
- Oregon Slope Base Deep Profiler Mooring
- Oregon Slope Base Seafloor
- Oregon Slope Base Shallow Profiler Mooring
- Southern Hydrate Summit 1 Seafloor
- Southern Hydrate Summit 2 Seafloor

Other Regional Cabled Array Platforms

- Oregon Offshore Cabled Benthic Experiment Package
- Oregon Offshore Cabled Deep Profiler Mooring
- Oregon Offshore Cabled Shallow Profiler Mooring
- Oregon Shelf Cabled Benthic Experiment Package



Location and depth ranges of platforms



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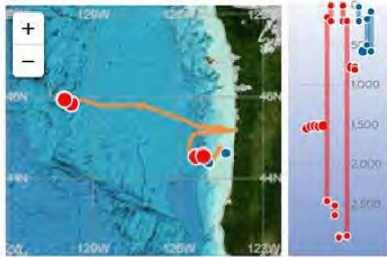
Share

Help



Regional Cabled Array

Overview More information Nodes Instrument types Parameters Platform types



Platform location and depth ranges

- Cabled
- Fixed-depth assets
- Moorings
- Profiling Assets
- Seafloor Platforms

Cabled

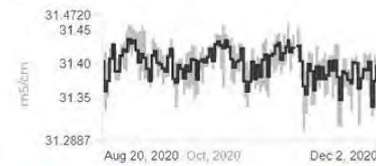
All instrument type 29 All parameters 65 Sort on 5

Data Inventory Downloads Annotations Deployments

Eastern Caldera > Medium-Power JBox (M303E)

Conductivity: CTD

1,516 (m)

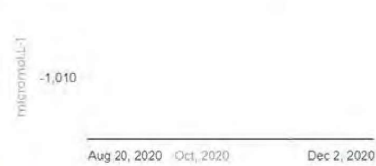


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M303E)

Oxygen: Dissolved Oxygen Molar...

1,516 (m)

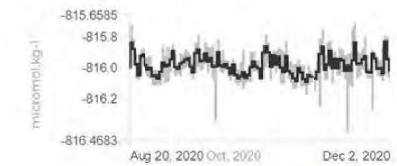


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M303E)

Oxygen: Mole Concentration Of...

1,516 (m)



Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M303E)

Salinity: CTD

1,516 (m)

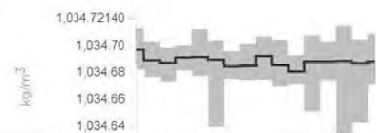


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M303E)

Sea Water Density: CTD

1,516 (m)



Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M303E)

Sea Water Pressure: CTD

1,516 (m)



Metadata Annotations Downloads

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Downloads 0



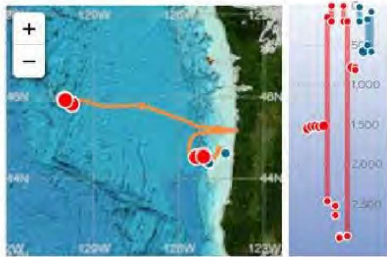
Share

Help



Regional Cabled Array

Overview More information Nodes Instrument types Parameters Platform types



- Cabled 25
- Fixed-depth assets 247
- Moorings 118
- Profiling Assets 78
- Seafloor Platforms 196

Cabled

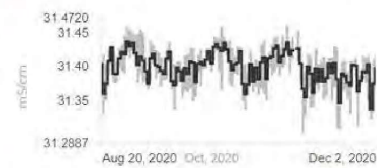
All instrument type 29 All parameters 65 Search Sort on 5

Data Inventory Downloads Annotations Deployments

Eastern Caldera > Medium-Power JBox (M003E)

Conductivity: CTD

17 1516 (m)



Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M003E)

Oxygen: Dissolved Oxygen Molar...

17 1516 (m)

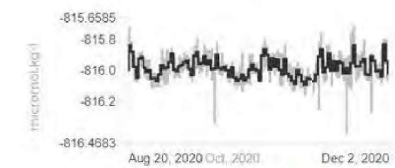


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M003E)

Oxygen: Mole Concentration Of...

17 1516 (m)



Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M003E)

Salinity: CTD

17 1516 (m)

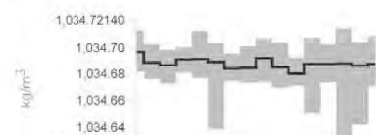


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M003E)

Sea Water Density: CTD

17 1516 (m)

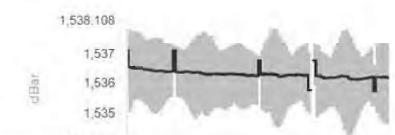


Metadata Annotations Downloads

Eastern Caldera > Medium-Power JBox (M003E)

Sea Water Pressure: CTD

17 1516 (m)



Metadata Annotations Downloads

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Regional Cabled Array

Overview More information Nodes Instrument types Parameters **Platform types**



Platform location and depth ranges

- Cabled 125
- Fixed-depth assets 247
- Moorings 115
- Profiling Assets 19
- Seafloor Platforms 194

Profiling Assets

All instrument type 1 Nitrogen: Nitrate 22 Search Sort on 5

Data Inventory Downloads Annotations Deployments

Axial Base Shallow Profiler Mooring > Shallow Profiler (SF03A)

Nitrogen: Nitrate: Nitrate

If 5 to 200 (m)

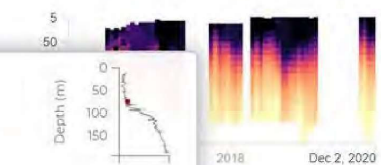


December 2015
Depth: 73 (m)
Mean: 7.464 · Min: 6.616
· Max: 8.312 · (µmol/L)

Oregon Slope Base Shallow Profiler Mooring > Shallow Profiler (SF01A)

Nitrogen: Nitrate: Nitrate

If 5 to 200 (m)



Downloads

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Regional Cabled Array

Overview More information Nodes Instrument types Parameters Platform types

Platform location and depth ranges

- Cabled 320
- Fixed-depth assets 247
- Moorings 100
- Profiling Assets 19
- Seafloor Platforms 140

Platform types

ERDDAP Dataset Charts Metadata

CSV Download

NetCDF Download

Queue for download

Calculated data

Binned months
Too much data for tabular display. Please use services listed above, or select a different bin level.

Metadata Annotations Downloads

Metadata Annotations Downloads

Data Access

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Help/Feedback

Merged time series
maximum 1 minute resolution

Per deployment/method
full resolution

ERDDAP > tabledap > Data Access Form

Dataset Title: Regional Cabled Array: Axial Base Shallow Profiler Mooring: Shallow Profiler (SF03A): Nitrate

Information: Summary | License | FGDC | ISO 19115 | Metadata | Background | Files | Make a graph

Variable	Optional Constraint #1	Optional Constraint #2	Minimum	Maximum
time (UTC)			2014-10-07T21:55:00Z	2020-08-29T22:08:00Z
latitude (degrees_north)			45.83049	45.83049
longitude (degrees_east)			-120.75326	-120.75326
2 (AblDepth, m)			-100.0	0.0
nitrate_concentration_of_nitrate_in_sea_water_profiler_depth_enabled (micromol.L-1)			-10.8703208022	36.5774305309
sea_water_practical_salinity_profiler_depth_enabled (te-3)			21.3184221375	35.43522991
sea_water_pressure_profiler_depth_enabled (decibars)			40.3300025708	184.3874405579
sea_water_temperature_profiler_depth_enabled (degree_Celsius)			6.8849995499	19.3494411761
station				

Server-side Functions: distinct

File type: HTML table - View a UTF-8 HTML web page with the data in a table. Times are ISO 8601 strings.

Submit: (Please be patient. It may take a while to get the data.)

ERDDAP > tabledap > Data Access Form

Dataset Title: Data produced by Stream Engine version 1.16.0 for RS03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample

Information: Summary | License | Metadata | Background | Make a graph

Variable	Optional Constraint #1	Optional Constraint #2	Minimum	Maximum
time			0	12718
nutr_spectrum_average (1)			20727	20727
nutr_sl_base_2 (FF Base 2, 1)			-7.590627	33.25711
nutr_sl_base_1 (FF Base 1, 1)			-78.2853	22.0079
salin_number (1)				
nutr_current_main (Main Current, mA)			483.0	587.0
salinrange			0	265
...diver_timestamp (Diver Timestamp, UTC, UTC)			2015-11-10T20:20:00Z	2015-11-10T20:37:00Z

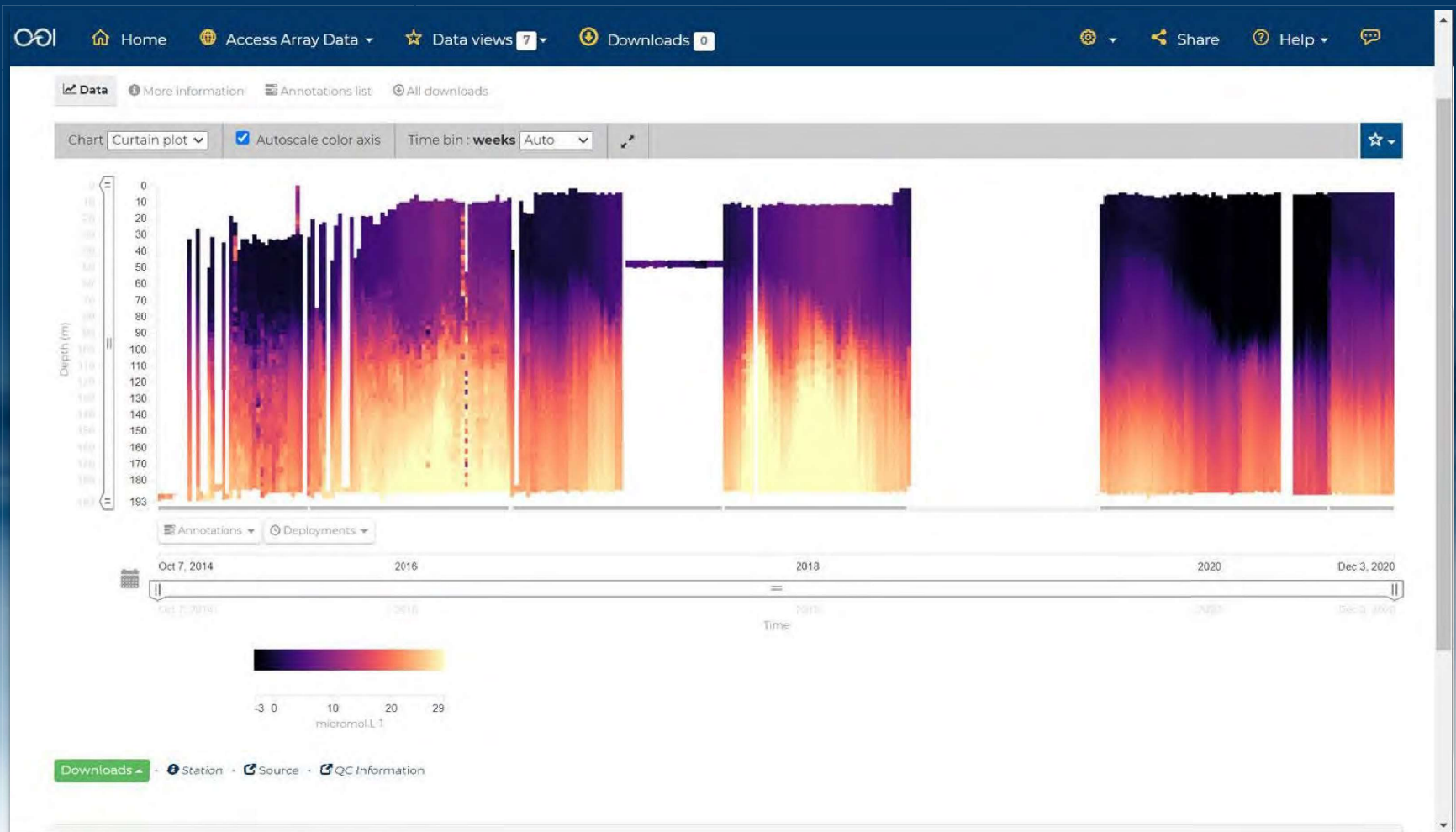
Dataset Table:

Dataset	Size	Last Modified
ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample	9.8 Kbytes	2020-11-04T06:04:09Z
deployment001_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	1.746 Kbytes	2020-11-04T06:04:11Z
deployment002_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	309.1 Kbytes	2020-11-04T06:04:11Z
deployment003_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	829.7 Kbytes	2020-11-04T06:04:11Z
deployment004_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	348.8 Kbytes	2020-11-04T06:04:11Z
deployment005_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	338.9 Kbytes	2020-11-04T06:04:11Z
deployment006_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	583.8 Kbytes	2020-11-04T06:04:11Z
deployment007_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	327.9 Kbytes	2020-11-04T06:04:11Z
deployment008_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	511.2 Kbytes	2020-11-04T06:04:11Z
deployment009_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	268.1 Kbytes	2020-11-04T06:04:11Z
deployment010_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	612.8 Kbytes	2020-11-04T06:04:11Z
deployment011_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	336.6 Kbytes	2020-11-04T06:04:11Z
deployment012_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	255.7 Kbytes	2020-11-04T06:04:11Z
deployment013_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	325.4 Kbytes	2020-11-04T06:04:11Z
deployment014_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	348.8 Kbytes	2020-11-04T06:04:11Z
deployment015_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	607.1 Kbytes	2020-11-04T06:04:11Z
deployment016_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	267.7 Kbytes	2020-11-04T06:04:11Z
deployment017_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	268.7 Kbytes	2020-11-04T06:04:11Z
deployment018_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	324.9 Kbytes	2020-11-04T06:04:11Z
deployment019_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	1.929 Kbytes	2020-11-04T06:04:11Z
deployment020_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	1.149 Kbytes	2020-11-04T06:04:11Z
deployment021_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	309.8 Kbytes	2020-11-04T06:04:11Z
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deployment023_ES03AXPS-SF03A-4A-NUTRA301-streamed-nutritr_a_sample_20141007215500Z_20141007215500Z_000000.nc	272.8 Kbytes	2020-11-04T06:04:11Z

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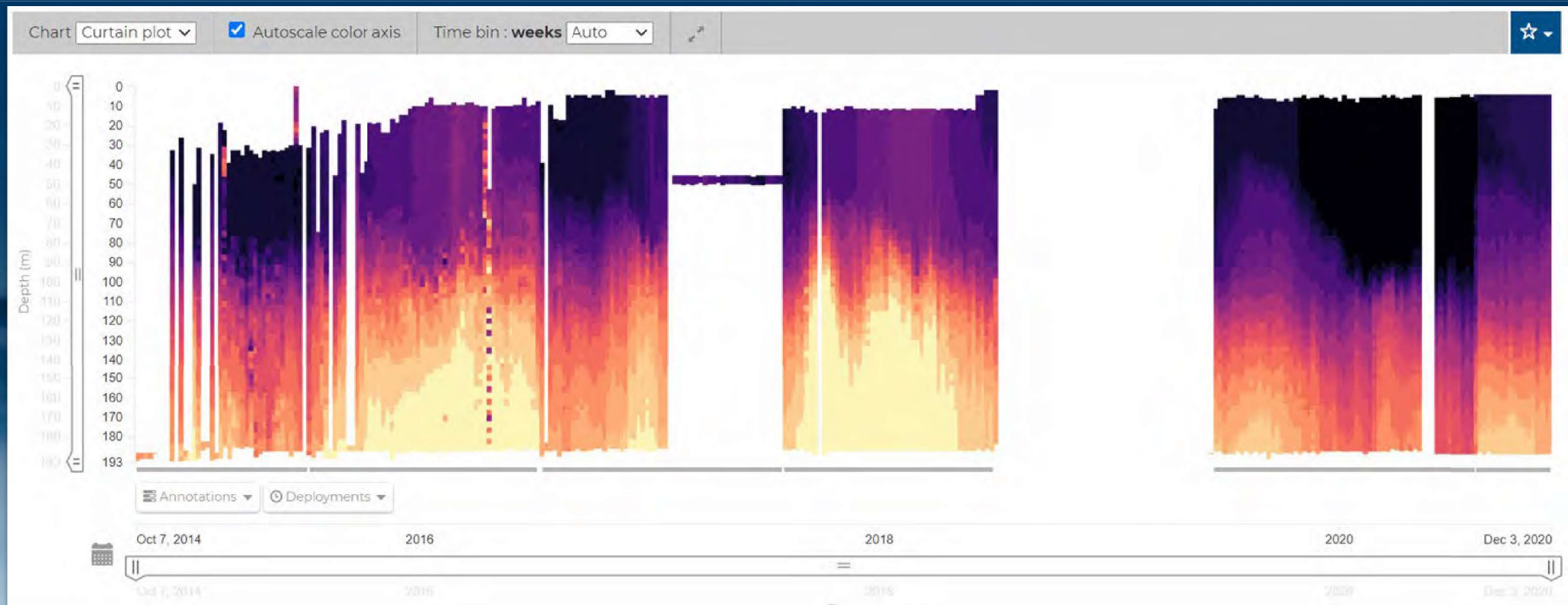
Help/Feedback



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Data Views

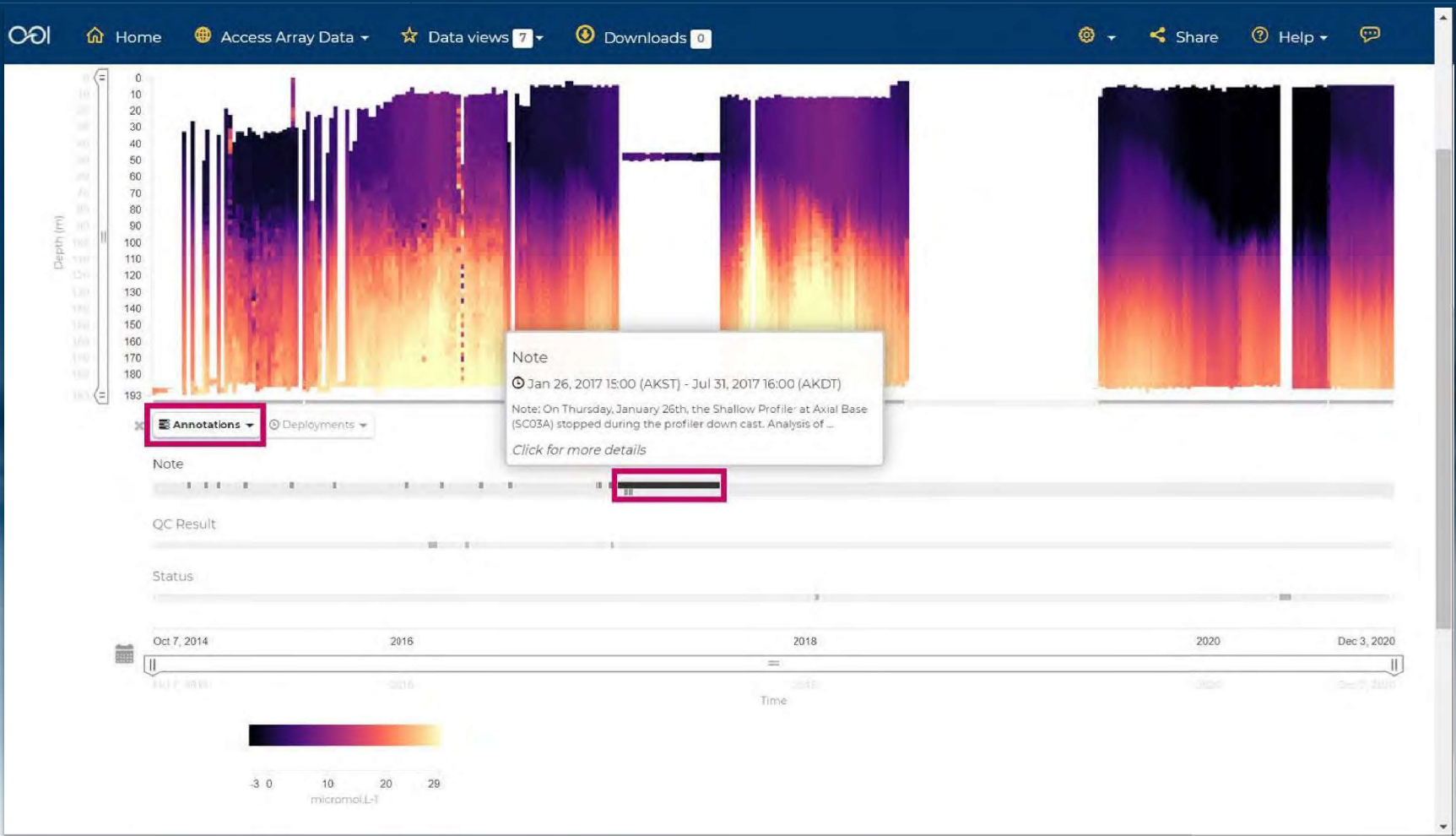
Help/Feedback



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Regional Cabled Array > Axial Base Shallow Profiler Mooring > Shallow Profiler (SF03A): Nitrate

Nitrogen: Nitrate

Data **More information** Annotations list All downloads

Site Location: 45.83049°N, -129.75326°E

Water Depth: 5 to 200 meters

Instrumentation:

- Nitrate
 - Class: NUTNR
 - Class/Series: NUTNRA
 - Make: Satlantic
 - Model: Deep SUNA
 - Discipline: Chemical
 - Category: Water Column
 - Note: *instruments are calibrated before each deployment, so for latest calibration date, see Deployment annotations.*

Data Products:

Note: For information on calibration, algorithms, processing steps, etc, see the Data Product Specification (DPS) document for each data product.

- Nitrate Concentration (NITROPT)
 - Nitrate Concentration is the amount of the nitrate ion (NO₃⁻) dissolved in seawater.

Processing Steps:

To enable 2D visualizations of profiler data, depth is calculated from pressure using `z_from_p` in the `coici/ion_functions` library. If you have questions about this, please use the Feedback button above.

Reference Designator (?): RS03AXPS-SF03A-4A-NUTNRA301

More Information

- [OOI/NET Data Access](#)



Nitrate

Data Access

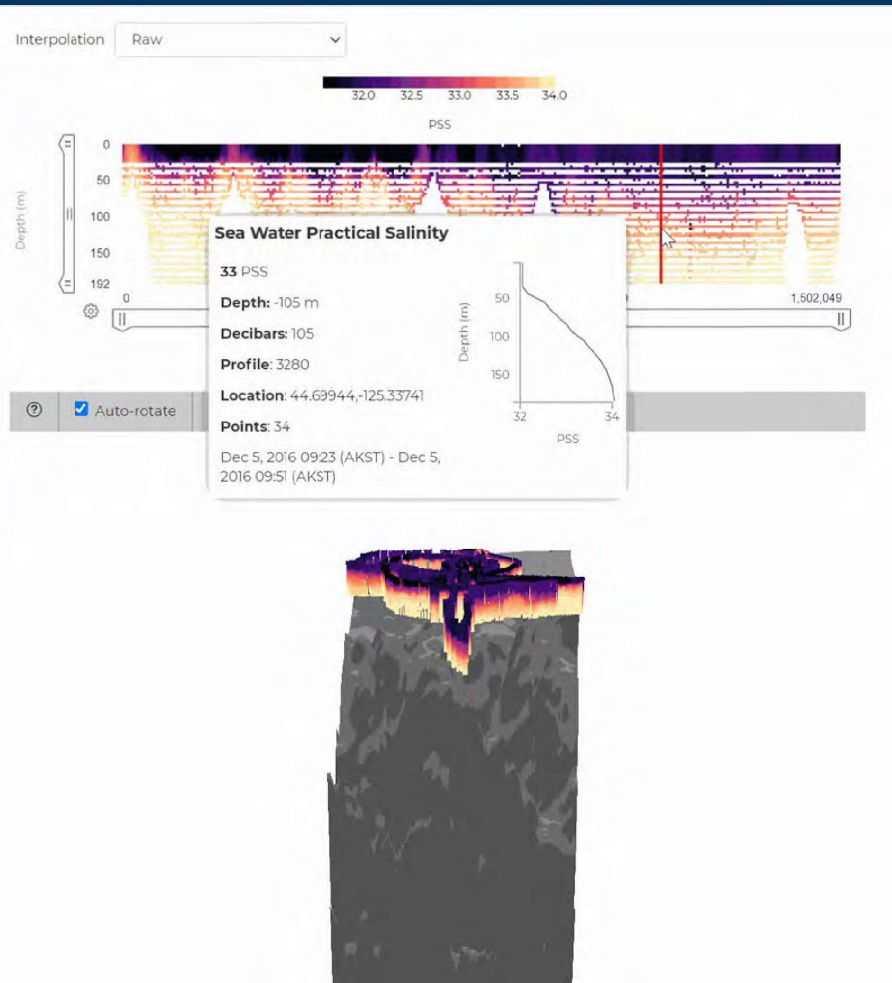
Data Views

Help/Feedback



Coastal Endurance - Coastal Glider 247 Deployment 5

Date range	Sep 28, 2016 14:10 (AKDT) - Jan 6, 2017 08:31 (AKST)
Metadata	https://gliders.ioos.us/erddap/info/ce_247-20160928T2157-delayed/index.html
Animal ID	None
Depth range	-0.15870599448680878 (m) - 192.40550231933594 (m)
Points	3,660,556
Institution	OOI Coastal Endurance
Authority	org.oceanobservatories



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<https://dataexplorer.oceanobservatories.org/#go-to-data-views>

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Interact with Data Views

Explore highlighted views below. Or, create, save, and share your own custom views.



Photo Credit: Tina Thomas, © Woods Hole Oceanographic Institution

Global Argentine Basin: Eddies



Photo Credit: WHOI

Coastal Endurance: Seasonal Upwelling



Photo Credit: NOAA

Coastal Pioneer: Spring 2018 Storms



Photo Credit: UW/OOI-NSF/CSSF

Regional Cabled Array: Axial Volcano Eruption Forecasting

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The Argentine Basin Surface Mooring (GAOISUMO) / Credit: Scripps Institution of Oceanography

Subsurface flotation sphere post blow-down event / Credit: Tina Thomas, © Woods Hole Oceanographic Institution

Enlarge plots (pdf)

AVISO sea level anomaly data are available at <https://marine.copernicus.eu/>.

Related data:

- Global Argentine Basin Array overview
- Global Argentine Basin: Flanking Subsurface Mooring A
- Global Argentine Basin: Flanking Subsurface Mooring B

Saved charts

1 Currents: Eastward Sea Water Velocity IF 500 (m) Global Argentine Basin: Flanking Subsurface Mooring A Mooring Riser: Velocity Profiler (75 KHz)

05-Jun-2016 06-Jun-2016 07-Jun-2016

Enlarge surface plots (pdf)

Chart: Curtain plot Autoscale color axis Time bin: days Auto

Downloads Station Sensor QC/QARTOD Data Source Information Legend

1 Currents: Northward Sea Water Velocity IF 500 (m) Global Argentine Basin: Flanking Subsurface Mooring A

Comparison chart

Autoscale Group axes on: Parameter

Sea Water Pressure (dBar) IF 39 (m) Global Argentine Basin: Flanking Subsurface Mooring A

Time bin: days Auto

[files.oceans.copernicus.eu/portal/132/dataviews/AVISO_SSHA_Vel_Argentine_Basin_Mar_Jul_2016.pdf](https://oceans.copernicus.eu/portal/132/dataviews/AVISO_SSHA_Vel_Argentine_Basin_Mar_Jul_2016.pdf)

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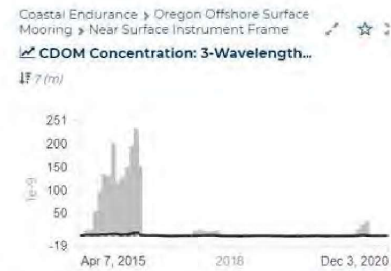
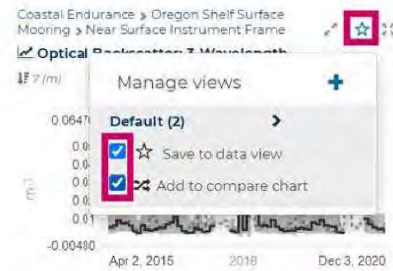
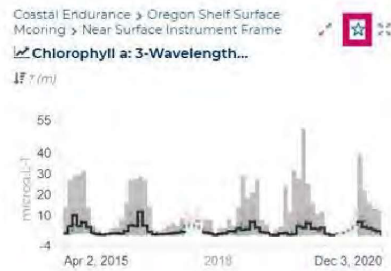
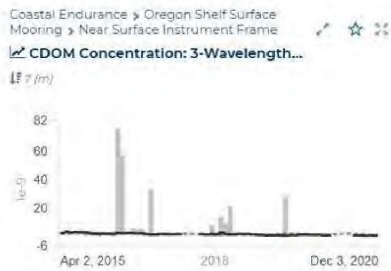
OOI: All

Overview Nodes Ciders Instrument types Parameters Platform types Search

Coastal Endu 7 Moorings 5 Fluorometer 18 All paramete 3 Search Sort on

Data Inventory Downloads Annotations Deployments

Time series added to data view: Default



Manage views +

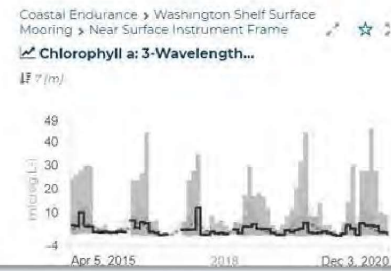
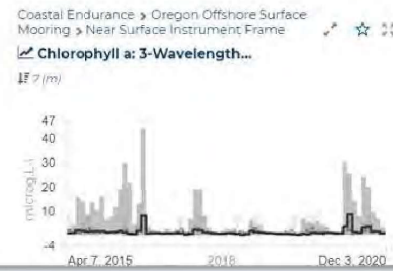
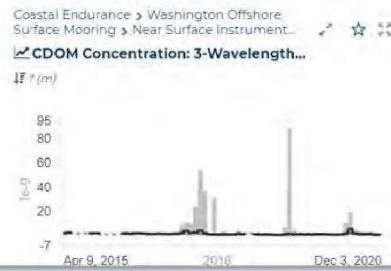
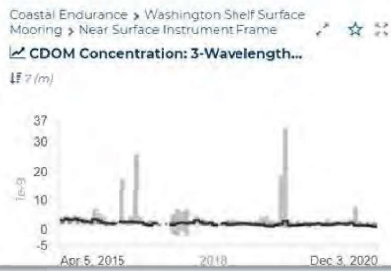
- Default (2) >
- Save to data view
- Add to compare chart

Metadata Annotations Downloads

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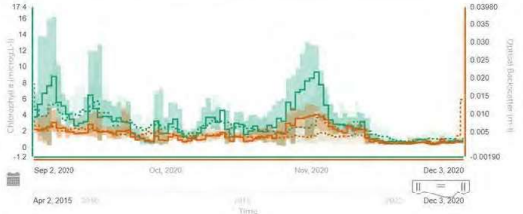
Home Access Array Data Data views Downloads Settings **Share** Help Feedback

☆ Default



Comparison chart

Autoscale Group axes on: Parameter



Chlorophyll a (microg.L-1) 17.4 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8 -10 -12

Optical Backscatter (m-1) 0.03980 0.035 0.030 0.025 0.020 0.015 0.010 0.005 0.000 -0.005 -0.010

Chlorophyll a (microg.L-1) 17.4 (m) Coastal Endurance: Oregon Shelf Surface Mooring Near Surface Instrument Frame: 3-Wavelength Fluorometer Time bin: days Auto

Optical Backscatter (m-1) 17.4 (m) Coastal Endurance: Oregon Shelf Surface Mooring Near Surface Instrument Frame: 3-Wavelength Fluorometer Time bin: days Auto

Saved charts

Optical Backscatter 17.4 (m) Coastal Endurance: Oregon Shelf Surface Mooring Near Surface Instrument Frame: 3-Wavelength Fluorometer

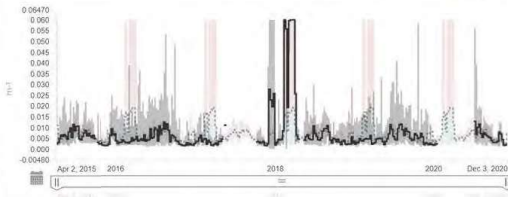


Chart Time series Autoscale Time bin: weeks Auto

Downloads Station Sensor QC/QARTOD Data Source QC Information Legend

Chlorophyll a 17.4 (m) Coastal Endurance: Oregon Shelf Surface Mooring Near Surface Instrument Frame: 3-Wavelength Fluorometer

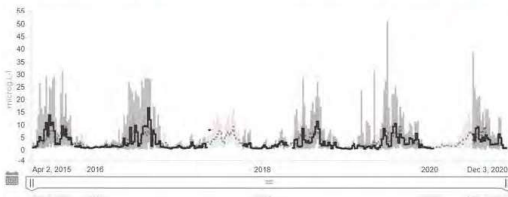


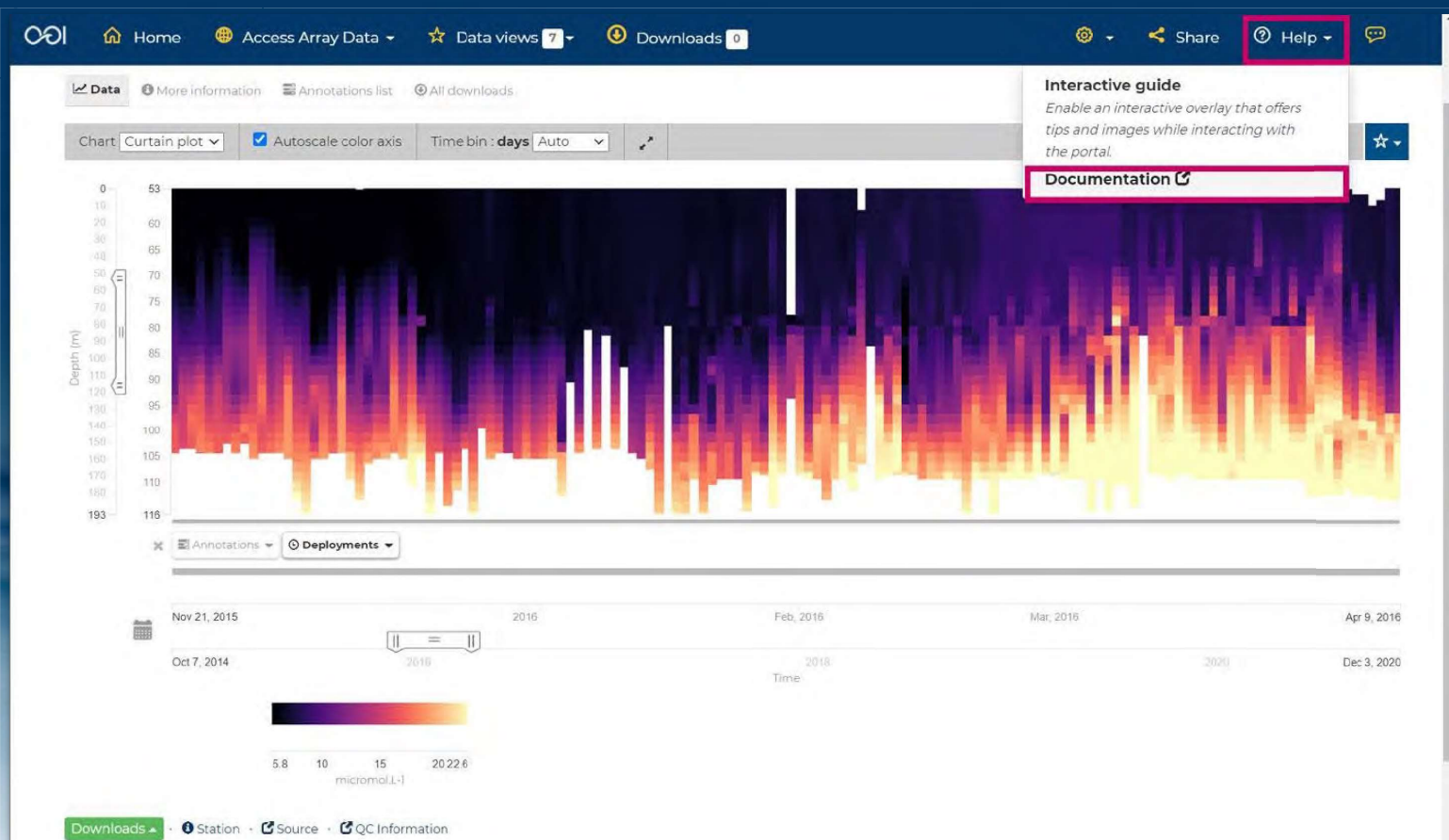
Chart Time series Autoscale Time bin: weeks Auto

Downloads Station Sensor QC/QARTOD Data Source QC Information Legend

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 Ocean Observatories Initiative Data Explorer Documentation

Search docs

OVERVIEW

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- Map Overview
- Data Views Overview

HOW-TO

- Catalog
- Data Charts


Data Views

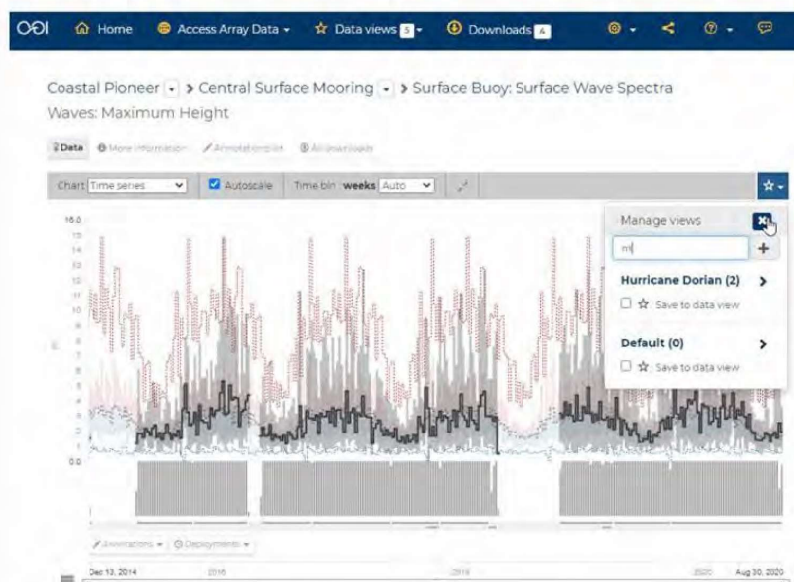
- Access Highlighted Data Views
- Create Custom Data View
- Comparison Charts**
 - Within the data chart
 - Within the data view
- Create Data View Narrative
- Annotate and Reorder Data View Charts
- Share Data View
- Delete a Data View

Downloading

There are 2 ways to compare more than one dataset on a comparison chart.

Within the data chart

1. Click the  in the data display window.
2. Click in the `Save to data view box` under your view's name.
3. Click the `Add to compare chart box`.
4. The new data will appear in the comparison chart in a contrasting color, and the name of the data layer will also be added to a list below the comparison chart.



Data Access

Data Views

Help/Feedback



Data Access

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Help/Feedback

The image shows a screenshot of a web application interface. A modal window titled "Submit feedback" is centered on the screen. The modal contains the following elements:

- A text input field with the placeholder text "Comment or suggestion (required)". The user has entered "How do I change the color palette?".
- A text input field for "Your name" with the value "Brian Stone".
- A text input field for "Your e-mail address" with the value "brian@axiomdatascience.com".
- A reCAPTCHA widget with a green checkmark and the text "I'm not a robot".
- A blue "Submit" button.

The background of the application shows a data visualization titled "Regional Cabled Array" and "Nitrogen: Nitrate". It features a heatmap where the vertical axis is "Depth (m)" ranging from 0 to 116, and the horizontal axis is "Time" with markers for Nov 21, 2015, Feb, 2016, Mar, 2016, and Apr 9, 2016. A color scale at the bottom indicates values from 5.8 to 20.226 micromol/L.

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More of the Data Explorer at AGU

Thursday December 10th - 11 am-noon Eastern

Participate in a data challenge

Two members of OOI's data team, Mike Vardaro, RCA and University of Washington, and Andrew Reed, CGSN and Woods Hole Oceanographic Institution, will lead participants through a series of three data challenges to demonstrate the capabilities of the Data Explorer.

Friday December 11th - 11 am-noon Eastern

Learn how to create data views using the new Data Explorer

OOI Data Team and Coastal Endurance team member Craig Risien will guide us through the steps of creating a data view using Coastal Endurance array data to demonstrate this feature of OOI's new data discovery tool, Data Explorer.

Thank you!

Brian Stone

Axiom Data Science

brian@axiomdatascience.com

axiomdatascience.com