



Apr 4th, 1:30 PM - 1:30 PM

Comprehensive data management for an ocean observatory: ONC's Oceans 2.0

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Dewey, Richard; Pirene, Benoit; and Jenkyns, Reyna, "Comprehensive data management for an ocean observatory: ONC's Oceans 2.0" (2018). *Salish Sea Ecosystem Conference*. 8.
<https://cedar.wvu.edu/ssec/2018ssec/allsessions/8>

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OCEAN
NETWORKS
CANADA

Comprehensive data management

For an ocean observatory

ONC's Oceans 2.0

Richard Dewey, Benoit Pirenne, Reyna Jenkyns

Ocean Networks Canada

SSEC 2018 - Seattle

NORTHEAST PACIFIC MAJOR OBSERVING SYSTEMS

- Government of Canada
- NOMA-DOCS-MANOCs
- Ocean Networks Canada

SOUTHERN BRITISH COLUMBIA INFRASTRUCTURE



PACIFIC OCEAN

Endeavour 2300 m

Pacific Plate

North American Plate

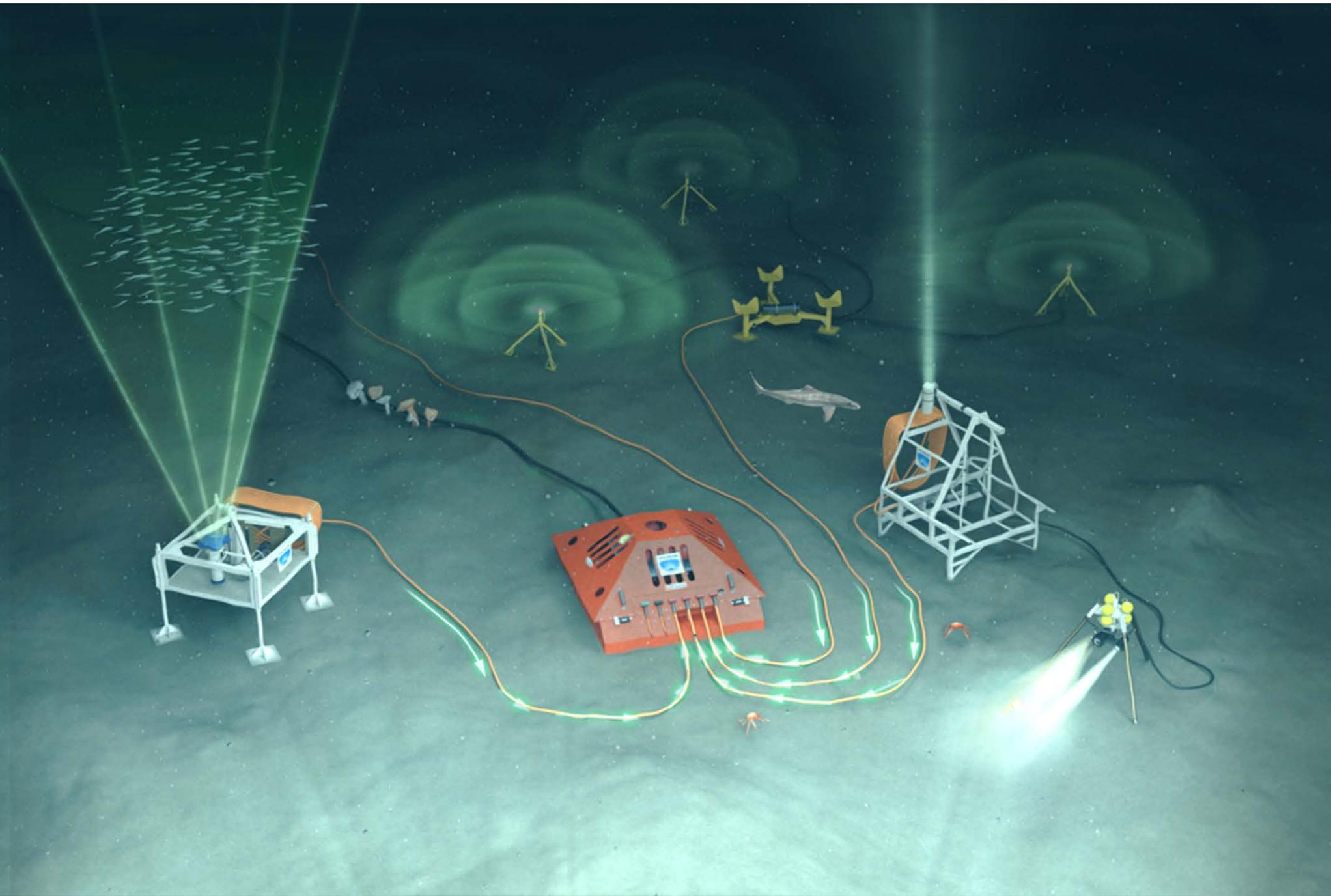
STATION PAPA 100° 00' N, 140° 00' W

oceannetworks.ca Canada INNOVATION.CA

IOOS, UBC, OCEAN, University of Victoria

Explorers Plate

Middle Valley 2400 m



Ocean Networks Canada Plotting Utility

Oceans 2.0

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Instruments | Saved Plots | Help

- Saved Plots
- Public Plots
- 2014 North East Pacific Warming Come
- Alaska 23 January 2018 EQ and Tsunar
- Alaska 23 January 2018 Tsunami - BPR
- Alaska Jan 23 Tsunami CS BPR
- Alaska Jan 23 Tsunami CS BPR 9:35 U
- Barkley Hydrates_IOV dataSept 2010_J
- Barkley_titan_camera_interference_test
- BARS 02 Deployment
- BC Earthquake 2014-04-24
- Boundary Pass Mooring Winter 2014
- BPR_Data_Gaps_30Jan-21-Jan-2018
- Cambridge Bay Observatory: Main Para
- CBO Principle Variables
- Chile 8.3 20150916 with the Titans
- Chile Earthquake and Tsunami 2015-09-
- Delta_Slide_5_June_2015
- Delta_Slides_June_2015
- EEW P&S 8.0 Solomon Jan22_17
- FlowMeter vs CTD (Crawler)
- Folger Passage Bottom Pressure - Oct
- Folger Storm 2011-03
- Follow VPS
- Japan Tsunami 2011-03-11
- JMA from underwater Titans
- Martin's Re-order Problem
- Multiple
- P1_March_21_2015
- PSF - Baynes Sound Raw and Correcte
- PSF - Baynes Sound Raw and Correcte
- PSF - Baynes Sound Raw Data Plots
- PSF - Baynes Sound Raw Data Plots (p
- PSF - Campbell River Raw and Correcte
- PSF - Campbell River Raw Data Plots
- PSF - Cowichan Bay Raw and Correcte
- PSF - Cowichan Bay Raw Data Plots
- PSF - Irvine's/Sechelt Raw and Correcte

Time Period Selection **Time Presets** **Refresh Plot(s)** **Time Range History**

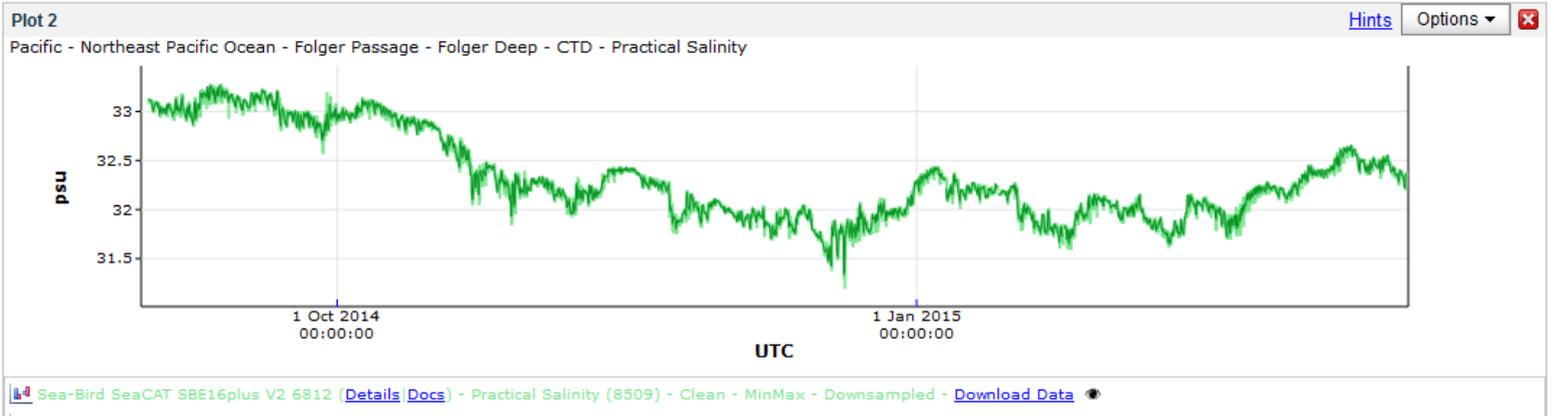
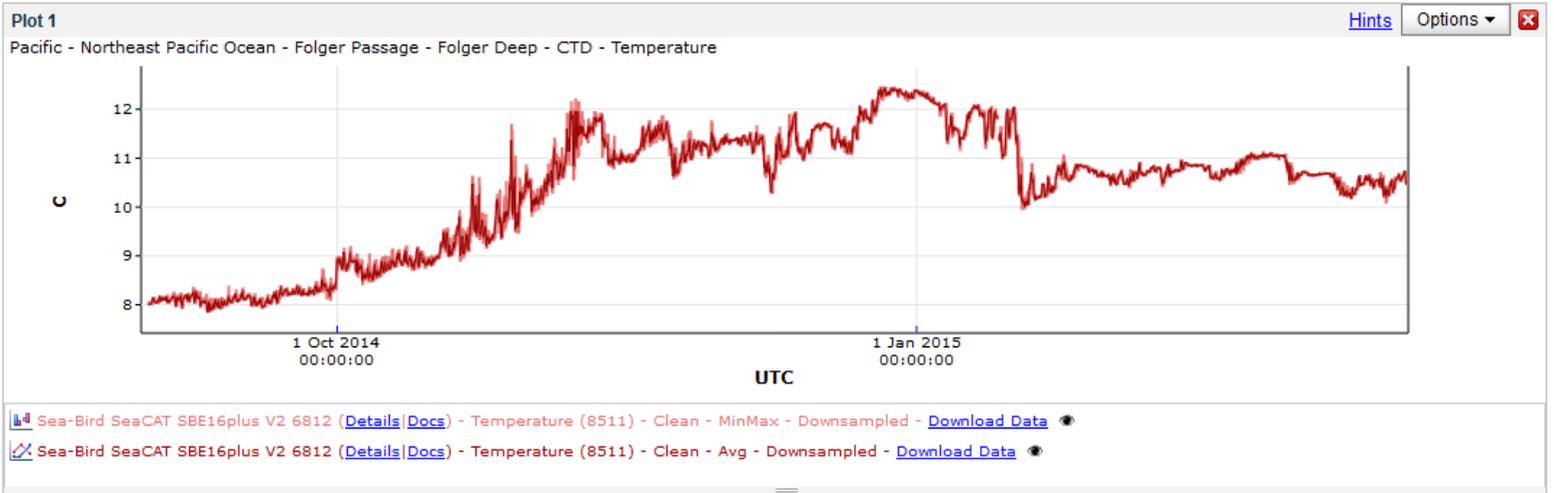
Date From (UTC): 01-Sep-2014 00:00:00 Custom Plot

Date To (UTC): 19-Mar-2015 20:20:37 [Reset Time Fields](#) Auto Refresh: Inactive

<< Previous UTC Time Period Next UTC Time Period >> Clear All Save Plot(s)...

Time Range History:

- 01-Jan-2001 00:00:00 - 19-Mar-2015 20:20:07
- 28-Aug-2009 01:30:41 - 19-Mar-2015 20:20:37
- 01-Nov-2014 00:00:00 - 19-Mar-2015 20:20:37
- 01-Sep-2014 00:00:00 - 19-Mar-2015 20:20:37



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2014 North East Pacific Warming Come

Alaska 23 January 2018 EQ and Tsunar

Alaska 23 January 2018 Tsunami - BPR

Alaska Jan 23 Tsunami CS BPR

Alaska Jan 23 Tsunami CS BPR 9:35 U

Barkley Hydrates_IOV dataSept 2010_J

Barkley_titan_camera_interference_test

BARS 02 Deployment

BC Earthquake 2014 04 24

Time Period Selection

Date From (UTC): 01-Sep-2014 00:00:00

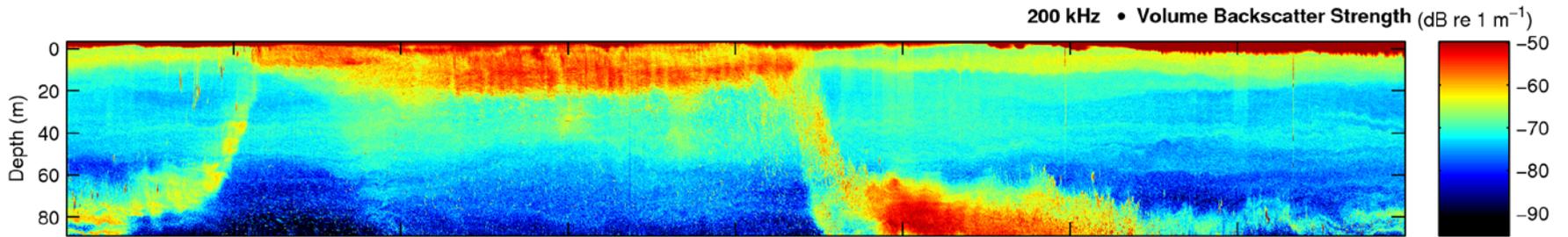
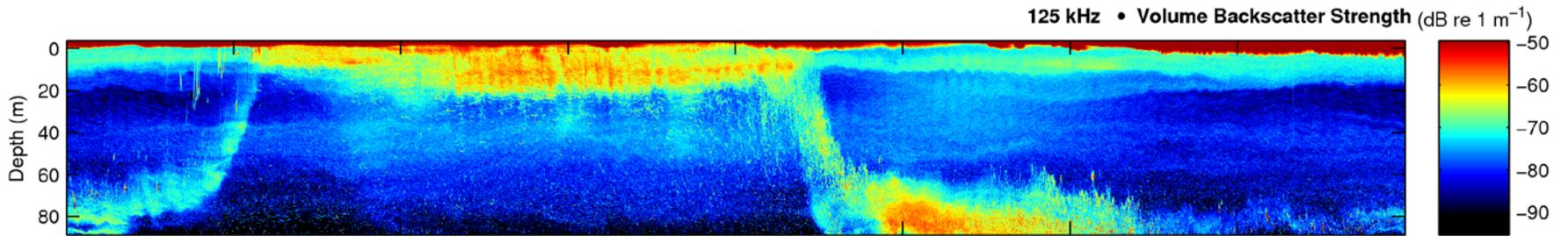
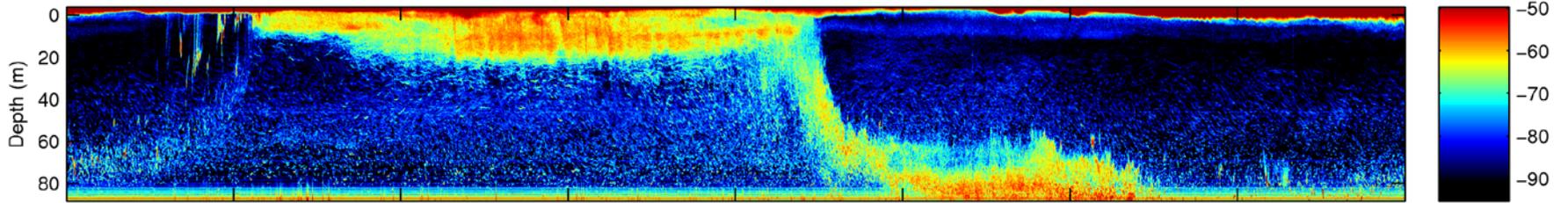
Date To (UTC): 19-Mar-2015 20:20:37

<< Previous UTC Time Period

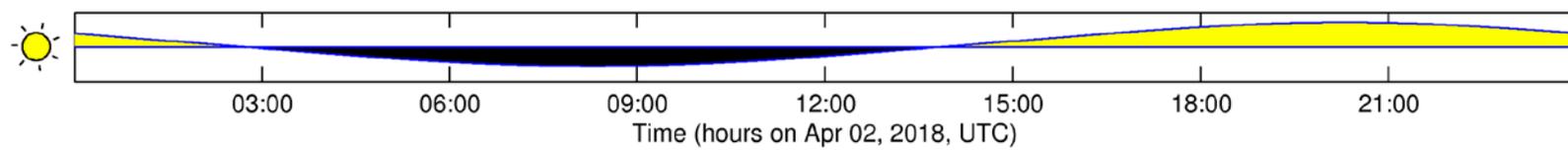
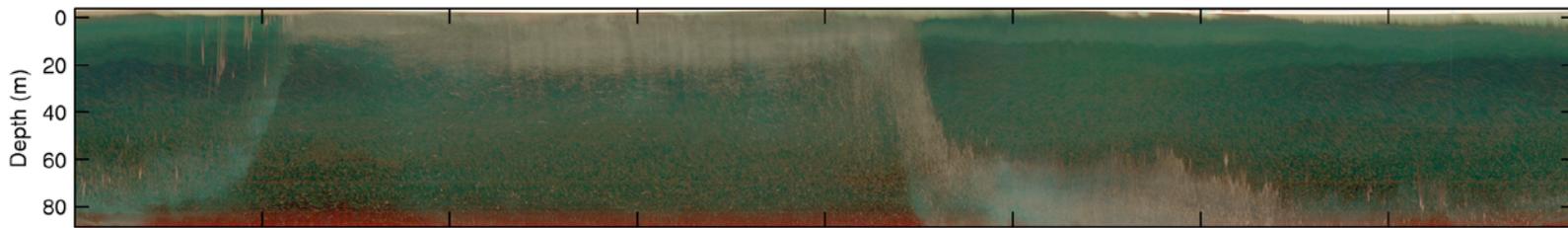
Next UTC Time Period >>

Plot 1

Pacific - Northeast Pacific Ocean - Folger Passag



RGB Composite: 38 kHz – Red, 125 kHz – Blue, 200 kHz – Green



- CTD**
- Sea-Bird SeaCAT SBE16plus 4998 (26) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE16plus 5270 (62) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE16plus 6935 (52) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE16plus 4997 (33) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE16plus 6936 (1305) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE19plus V2 4686 (23832) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE19plus V2 7791 (24120) [Details](#) | [Documentation](#)
 - Sea-Bird SeaCAT SBE19plus V2 4998 (23605) [Details](#) | [Documentation](#)

Date From (UTC): Last 24 Hours

Date To (UTC): [Reset Time Fields](#)

	Time Series Scalar Data				Time Series Scalar Plot		Log File	Sea-Bird CTD Raw Files
	OSW 333	MRT 7	TX1	0204	PLG	PPF	TX1	HEB
CTD 396 Annotations	<input type="checkbox"/>							
Conductivity (3361, 10, 112, 3011, 7740, 16628, 22219, 15831) 3 Annotations	<input type="checkbox"/>							
Density (630, 11, 113, 3012, 7744, 16630, 22221, 15832) 3 Annotations	<input type="checkbox"/>							
Practical Salinity (3371, 12, 115, 3013, 7742, 16626, 22217, 15842) 3 Annotations	<input type="checkbox"/>							
Pressure (3366, 3, 103, 3002, 7741, 16633, 22210, 15835)	<input type="checkbox"/>							
Sigma-t (635, 13, 116, 3014, 7745, 16627, 22218, 15843) 3 Annotations	<input type="checkbox"/>							
Sigma-theta (0 dbar) (15728, 15726, 15734, 15729, 15733, 16629, 22220, 15895)	<input type="checkbox"/>							
Sound Speed (3914, 4, 104, 3003, 7743, 16631, 22222, 15833) 1 Annotation	<input type="checkbox"/>							
Temperature (3356, 5, 105, 3004, 7739, 16632, 22209, 15834)	<input type="checkbox"/>							

NOTE: Most data products have additional [Metadata](#) automatically generated and added to the Cart. + Add to Cart

Marine Data Management

- Establish and Maintain Systems
- Provide Preliminary Data QA/QC
- Manage the Metadata
- Provide tools for exploration and download

Works In Progress:

- How to make large complex archives “discoverable”?
- Can we leave data centralized, and upload code?
- We can cross-link data/sources, but are the tools and formats transferable/interoperable?
- What features do you want?

Visit and Explore Salish Sea Data Oceans 2.0

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