



SeaTube V3 Help

Register for an Oceans 2.0 account & get more features: You can view SeaTube without logging in, but you need an account to access and use SeaTube V3.

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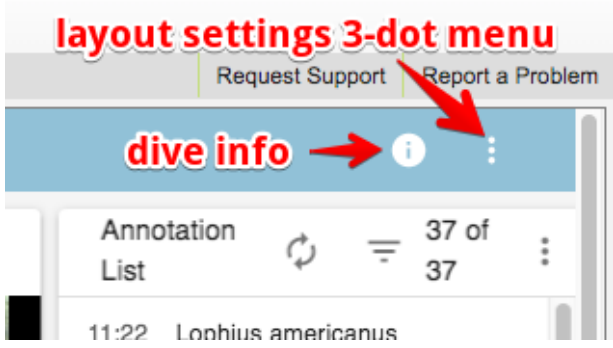

What is SeaTube V3?

SeaTube V3 is our 3rd generation viewer and annotation tool for underwater dive videos. There are currently 3 versions of SeaTube, SeaTube Pro, SeaTube V2 and SeaTube V3. The latest version includes these features:

- Changeable base maps
- Configurable layout
- Configurable ROV sensor display
- Quick annotation entry
- Powerful filtering and search tools
- Annotation taxonomy support + CMECS annotations one should I choose?

If you simply want to view underwater videos, use [SeaTube Pro](#) or [SeaTube V2](#). If you are helping annotate dives from the NOAA ship Okeanos Explorer, you should use [SeaTube V3](#), which is accessed from the [Expedition Management](#) page. In the future, ONC will merge all three versions to create a single multi-purpose SeaTube.

How to use SeaTube V3

1. Choose a Layout	Customize your Layout
<p>Step 1: Configure the Layout</p> <p>Use the Layout Settings 3-dot menu to choose a predefined layout</p>  <p>layout settings 3-dot menu</p> <p>dive info</p> <p>Annotation List 37 of 37</p> <p>11:22 Lophius americanus</p> <p>(Watch demo video)</p>	<p>Optional: Customize your Layout</p> <p>In addition to the predefined layout, you can drag, resize and remove individual panels. You can also revert to predefined layouts with a single click.</p>  <p>grab handle</p> <p>19:56 Teuthida (squids) ID: 11716 [WORM] shortfin</p> <p>19:57 specimen 1, rock sample in canister 1, very crumbly</p> <p>20:02 ROV ascending</p> <p>(Watch demo video)</p>

2. Get to Know the Widgets

Step 1: Get to Know the Widgets

A number of different widgets and panels are available within SeaTube:

- **Video:** Video display and control window.
- **Map:** shows the location where the video was recorded. For ROV dives, vehicle's track and annotation locations are also shown.
- **Dive Details:** ROV dive location, expedition, dates & times, goals.
- **Annotation List:** List of annotations already created for the current video.
- **Annotation Entry:** Tools for creating new video annotations.
- **Sensor Readings:** Environmental measurements recorded by sensors on the ROV or nearby the camera during the video.

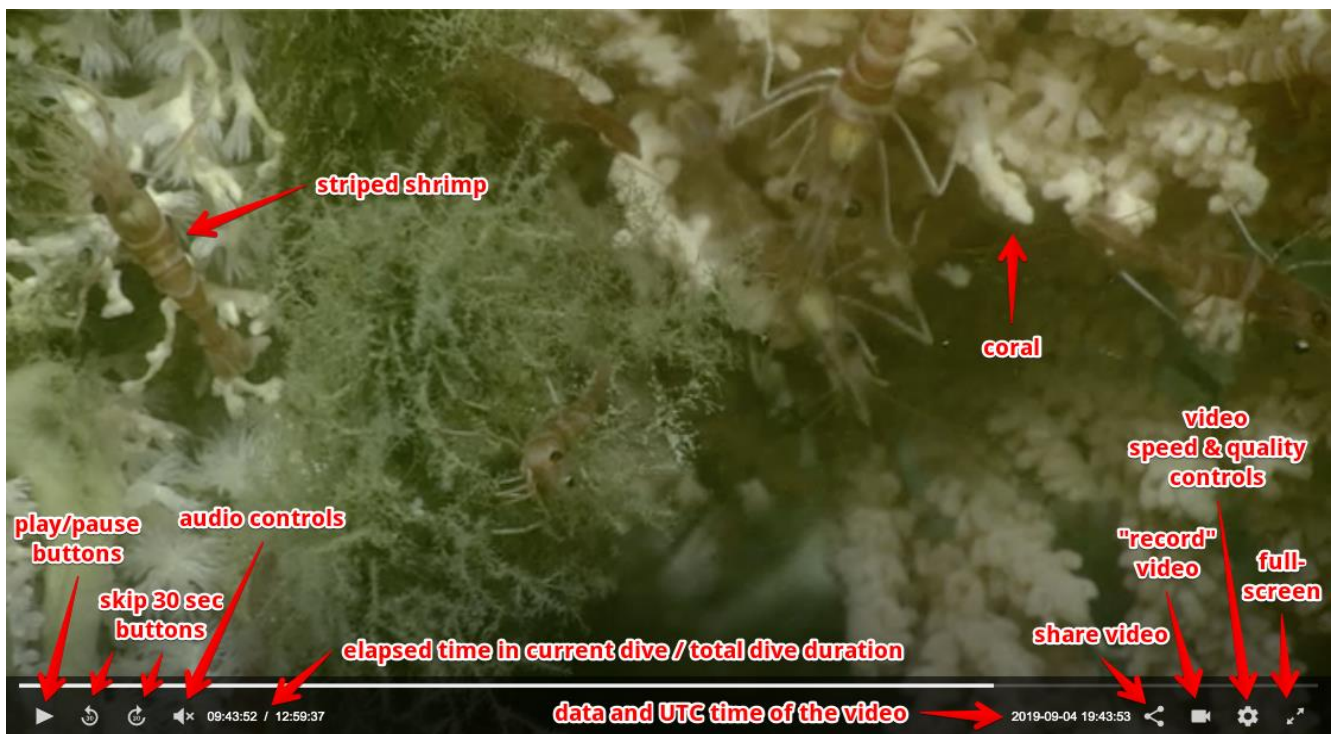
The screenshot displays the SeaTube interface for a dive titled "EX1905L2-Dive07 - North Atlantic Ocean". The interface is divided into several panels:

- Map:** Shows a map of the North Atlantic Ocean with a red track and a blue circle labeled "37".
- Video:** Displays a video of a fish swimming over a green seabed. The video player shows a timestamp of 08:54:03 / 12:59:37.
- Annotation List:** Lists annotations with timestamps and taxonomic information. The list includes:
 - 18:41 Asteroidea (starfish; sea stars) | ID: 123080 [WORM]
 - 18:46 Asteroidea (starfish; sea stars) | ID: 123080 [WORM] tiny white seastar near large purple one
 - 18:46 Polyplocophora (chitons) | ID: 55 [WORM]
 - 18:48 Peranaster | ID: 255076 [WORM]
 - 18:54 Macrouridae (grenadiers; rattails) | ID: 125471 [WORM]
 - 18:56 Macrouridae (grenadiers; rattails) | ID: 125471 [WORM]
- Dive Details:** Provides information about the dive, including the NOAA OER (EX1905L2) expedition, Dive Chief Wagner, Daniel, and the Area North Atlantic Ocean.
- Annotation Entry:** A form for creating new annotations, including fields for Taxonomy, Taxon, Comment, Resource Type (Device Data), and Resource (Insite Pacific Zeus Plus Ca...). Buttons for "To Be Reviewed", "CLEAR", "SAVE & KEEP TIME", and "SAVE" are visible.
- Sensor Readings:** Displays environmental measurements recorded during the dive, including Latitude, Longitude, Heading, Depth, Air Temperature, Altitude, Heave, Oxygen Concentration, Pitch, and Practical Salinity.

Video Widget

The video widget lets you:

- play and pause
- control audio volume and mute
- watch video at half speed, normal speed, 1.5x speed and 2x speed
- skip forward and backward 30 seconds in the video
- see the video date and time
- save video clips in your personal library
- take snapshots
- choose video quality
- share a link to the video via Facebook, Twitter or URL
- expand to full screen

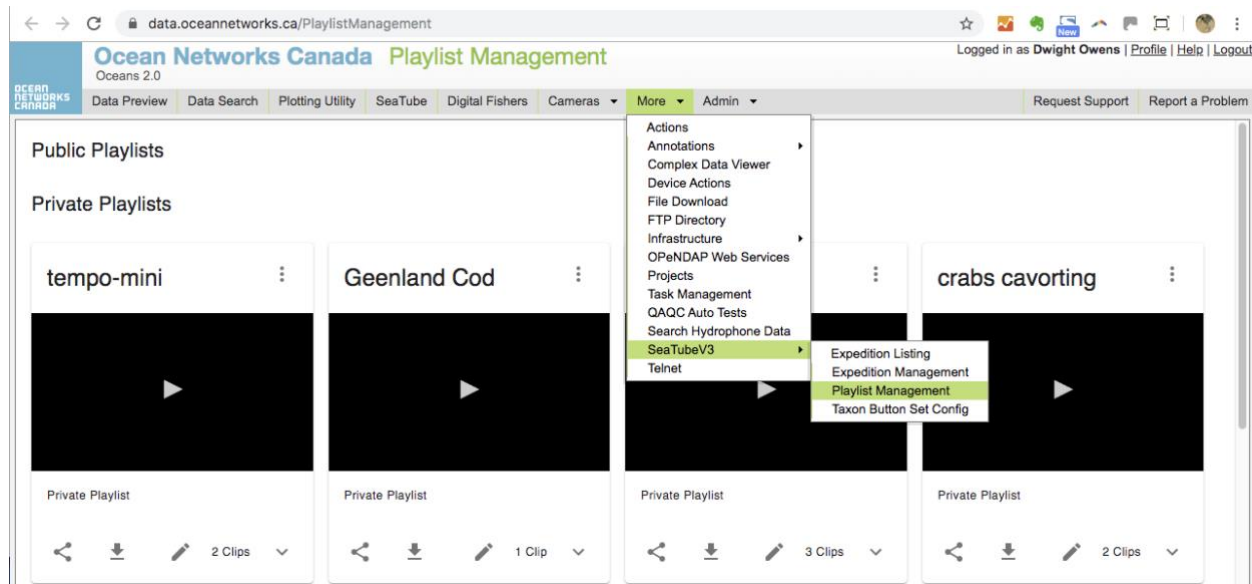


[\(Watch demo video\)](#)

Recording Video Clips

You can save video segments to your personal playlist. Use the camera icon to start and stop recording for your segment. When you stop recording, you will be asked to add your video to a new or existing playlist. ([Watch demo video](#)).

After recording your video clip segments, you can view them from the Playlist Management screen:



Viewing Video Clips

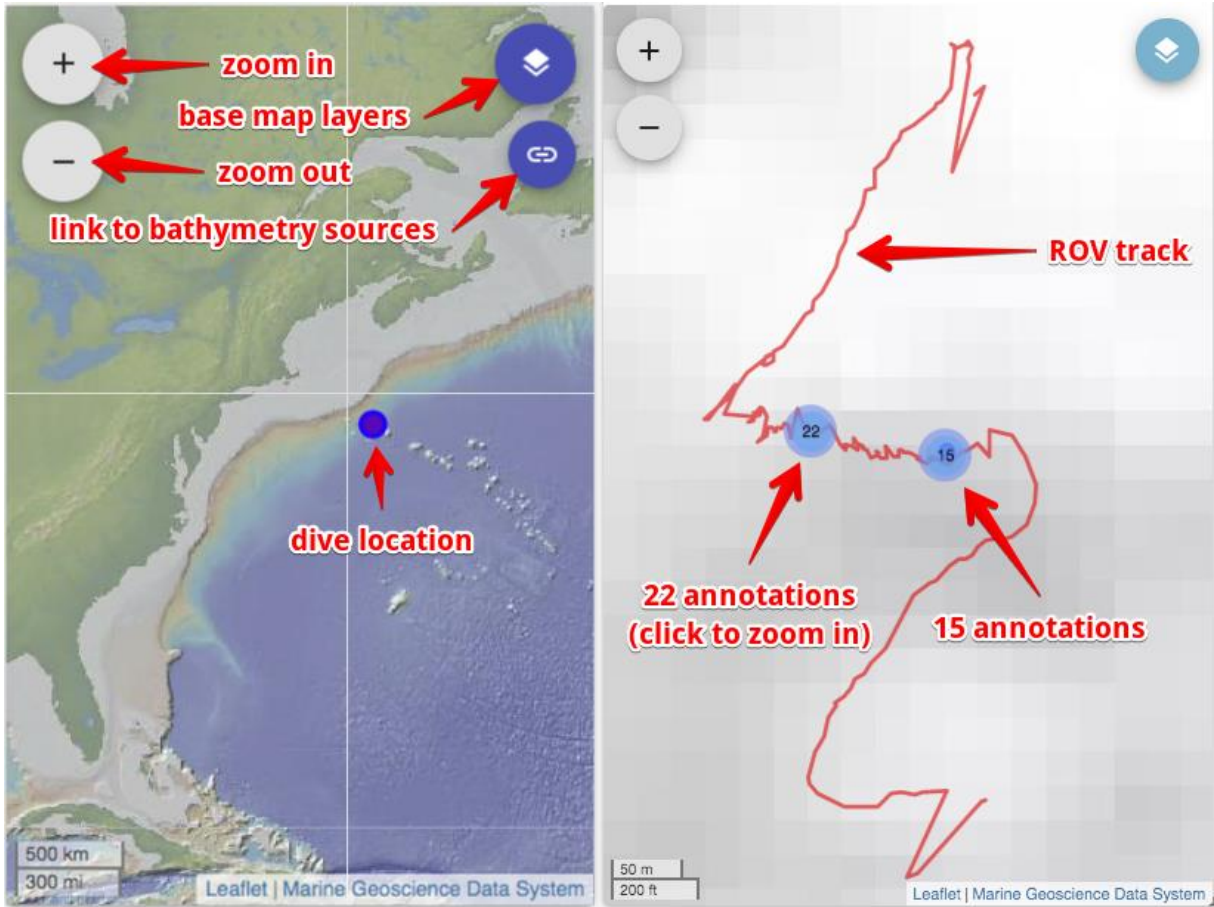
You can view, describe and share recorded clips on your personal playlist via the Playlist Management screen. ([Watch demo video](#))

Downloading Video Clips

You can also download your playlists as video clips! ([Watch demo video](#))

Map Widget

When you open a dive in SeaTube V3, a map is displayed. This zoomable map shows seafloor bathymetry along with the track along which the Remotely Operated Vehicle (ROV) followed during the dive. Clicking a dot on the track line takes you to that point in the video.




([Watch demo video](#))

Dive Details Widget

Here you can find information about the currently selected expedition and Remotely Operated Vehicle (ROV) dive. The Oceans 2.0 video archives hold video recordings from numerous expeditions and dives by many different ROVs.

Dive Details



Dive
EX1905L2-Dive07

Expedition
NOAA OER (EX1905L2)

Dive Chief
Wagner, Daniel

Area
North Atlantic Ocean

Start Date
2019-Sep-04 10:00:00

End Date
2019-Sep-04 23:00:00

Dive Plan
This site was located within the canyons unit of the Northeast Canyons and Seamounts Marine National Monument. Previous dives within Oceanographer Canyon documented dense deep sea coral communities, and the dive location was predicted to be highly suitable for coral habitat. The purpose of the dive was to explore benthic communities at 500-400 m within an previously unexplored portion of the canyon.

Annotation List Widget

This widget lets you browse and filter annotations on the video. Use filtering to show only the annotations containing a certain word or created by a certain individual. You can also filter by additional options such as date, depth, temperature range, oxygen levels, etc.

After you choose filtering options, don't forget to click Apply Filters. You can remove filtering by clicking Clear Filter.

The screenshot shows the 'Annotation List' widget interface. At the top, there is a title 'Annotation List', a refresh icon, a filter icon, and the text '3 of 72'. Below this are three filterable dropdown menus: 'Text' (containing 'graneledon'), 'Creators', and 'Modifiers'. A checkbox labeled 'To Be Reviewed' is present. Below these is a 'Select a Filter' dropdown menu. At the bottom of the filter section are three buttons: 'ADD FILTER OPTION', 'CLEAR FILTER', and 'APPLY FILTER'. The main list area contains three entries, each with a timestamp, a title, an ID, and a link labeled '[WORM]'. Red arrows and text annotations point to various parts of the interface: 'filter by the word "graneledon"' points to the 'Text' dropdown; 'open/close filtering options' points to the filter icon; 'filter by names of people who created or modified annotations' points to the 'Creators' and 'Modifiers' dropdowns; 'choose additional filter options' points to the 'Select a Filter' dropdown; and 'after choosing filter options, click Apply Filter' points to the 'APPLY FILTER' button.

Annotation List

filter by the word "graneledon"

open/close filtering options

filter by names of people who created or modified annotations

choose additional filter options

after choosing filter options, click Apply Filter

Text
graneledon

Creators

Modifiers

To Be Reviewed

Select a Filter

ADD FILTER OPTION CLEAR FILTER APPLY FILTER

16:35 Graneledone I ID: 157018 [WORM]

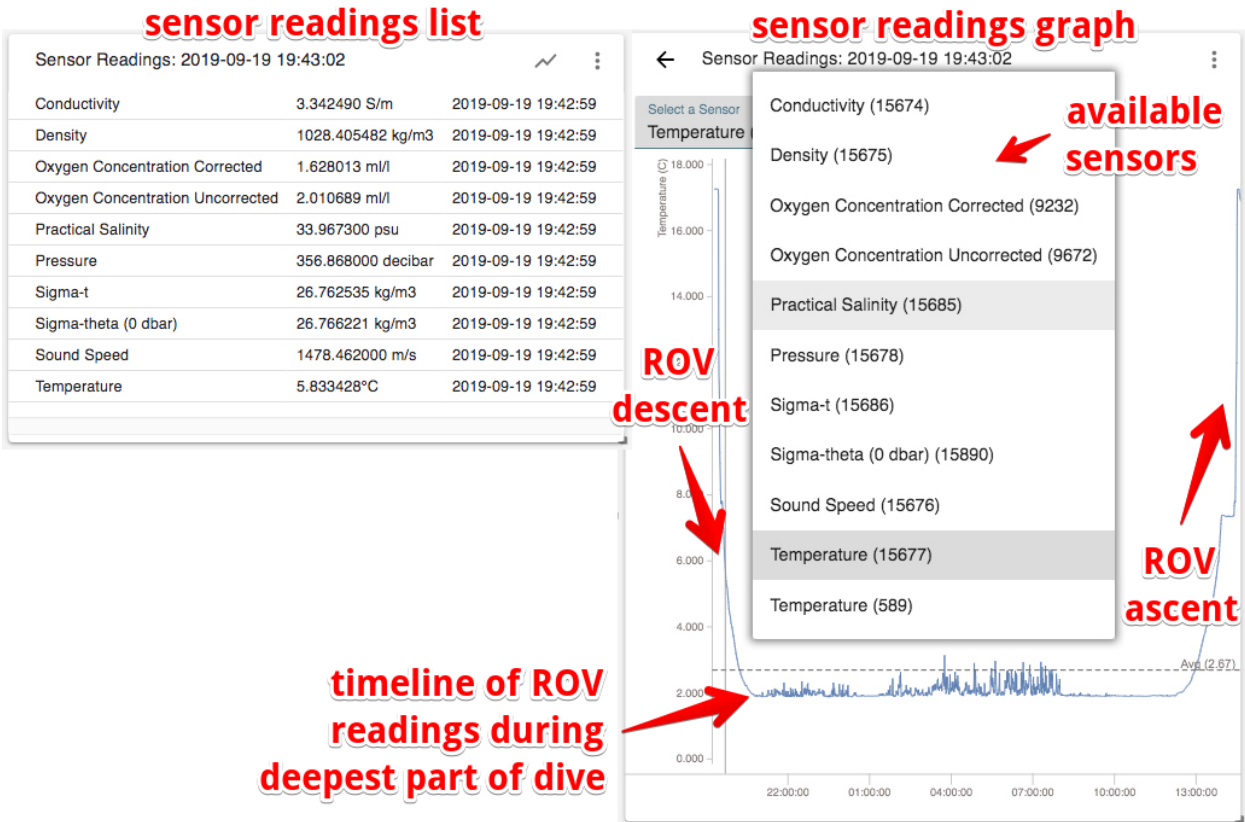
18:04 Graneledone I ID: 157018 [WORM]
Under small ledge

18:10 Graneledone I ID: 157018 [WORM]

([Watch demo video](#))

Sensor Readings Widget

You can view readings from instruments attached to the Remotely Operated Vehicle during a dive. When first displayed, they are shown in numerical form, updated for each annotation. You can switch to graphical display sensor readings over time.



[\(Watch demo video\)](#)

Making Annotations

Annotation Entry Widget

Basic Annotation Entry

The annotation entry widget is both powerful and customizable.

The screenshot shows the 'Annotation Entry' widget with the following fields and buttons:

- CAPTURE TIME**: A label with a red arrow pointing to the time selection area. Red text says: "click Capture Time to get the current UTC time (on your server) for your annotation".
- Time Selection**: Two input fields for date (YYYY-MM-DD) and time (HH:mm:ss).
- Taxonomy**: A dropdown menu with a red arrow pointing to it. Red text says: "choose the taxonomy and specific taxon to be attached to your annotation".
- Taxon**: A dropdown menu with a red arrow pointing to it. Red text says: "usually, you will annotate Device Data".
- Resource Type**: A dropdown menu with "Device Data" selected. Red text says: "usually, you will annotate Device Data".
- Resource**: A dropdown menu with "Sony Camera on HROV Ariane (...)" selected.
- Comment**: A text input field with red text: "enter your annotation here".
- To Be Reviewed**: A checkbox with a red arrow pointing to it. Red text says: "check To Be Reviewed if your annotation needs to be reviewed later".
- CLEAR**: A button with a red arrow pointing to it. Red text says: "click clear to start over".
- SAVE & KEEP TIME**: A button with a red arrow pointing to it. Red text says: "use Save & Keep Time when you want to make more annotations for the same time stamp".
- SAVE**: A button with a red arrow pointing to it. Red text says: "click Save to enter and clear the time stamp".

You can use taxonomies to standardize annotation entries. This makes them easier to find by filtering as well.

([Watch demo video](#))

Quick Entry

Quick Entry: Buttons

You can use button presets to enter annotations quickly—at a single click.

The screenshot shows the 'Annotation Entry' form for 'Dive04 - Nice'. A red box highlights a grid of 40 buttons, each with a number and a taxonomic name. Red arrows point to the 'DCEL Buttons' dropdown menu, the 'Auto Save' checkbox, and the 'quick entry buttons' label. A red arrow also points to the 'Quick Entry' checkbox in the right-hand sidebar.

1 Gorgonian	2 Isididae	3 Paramu...	4 Callogor...	5 Iridogor...	6 Swiftia sp.	7 Plumare...	8 Chrysog...	9 Paragor...	10 Prim
11 Black ...	12 Leiopa...	13 Sticho...	14 Bathyp...	15 Tanace...	16 Antipat...	17 Stylop...	18 Paraca...	19 Nicella...	20 Plex
21 Sclera...	22 Lophelia	23 Madre...	24 Oculina	25 Enallo...	26 Dendr...	27 Madra...	28 Soleno...	29 Schizo...	30 Acar
31 Sylast...	32 SoftCoral	33 SeaPen	34 Unknown	35 +Count			38 Porifera	39 Hexact...	40 Dem

[\(Watch demo video\)](#)

You can choose from button sets that have already been prepared, or you can make your own custom button sets (explained below).

Quick Entry: Keystrokes

You can also use keystrokes for quick entry.

[\(Watch demo video\)](#)

Attributes

Attributes

In addition to taxonomies and taxons, you can add attributes, such as count, material or morphotype to your annotations.

click to add new attribute types

select to show attributes section

ADD AN ATTRIBUTE

Select an Attribute
Count Enter Value
If adding an attribute, this is required

Select an Attribute
Material Enter Value
If adding an attribute, this is required

Select an Attribute
Material Enter Value
If adding an attribute, this is required

attributes section

Attributes

Quick Entry

Capture Time

Button Set Management

Taxonomy Management

Remove

To Be Reviewed CLEAR SAVE & KEEP TIME SAVE

[\(Watch demo video\)](#)

Button Set Management

Custom Quick-entry Buttons

You can create your own custom button sets using the [Taxon Button Set Configuration](#) screen.

Ocean Networks Canada Taxon Button Set Configuration

Logged in as Dwight Owens | Profile | Help | Log

Taxon Button Sets

- Brian Kennedy
- Common NE Pacific Organisms** ← **currently selected button set name**
- DCEL
- DCEL Buttons
- demo
- EX1811_Select Taxonomy
- Gina
- Jessica's Buttons
- Mashkoor
- Matt
- Meg
- Midwater Fauna
- New Button Set
- New Button Set (1)
- New Button Set (3)
- New Button Set (4)
- ONC
- ROVstage
- Simplified CMECS
- Tina
- V3 Demonstration - November 20, 2019

Taxon Button Set

Name: Common NE Pacific Organisms

Active:

Buttons

1. Hagfish 2. Sablefish 3. Halibut 4. Rockfish 5. Deep Oct... 6. Giant Oct...

Button Configuration

Button Type: Taxonomy

Index: 7

Label: Rattail Enter 15 characters or less

Taxonomy: WoRDSS

Taxon: Coryphaenidae/Corypha... x

Colour: Submit

Comment:

Cancel Save

already configured buttons

new button being configured

Add Taxon Button Set

[\(Watch demo video\)](#)

Searching Annotations

SeaTube Search

SeaTube Search

You can search through all video annotations to find video segments of interest. SeaTube Search allows you to scope your search by expedition(s), dive(s) and many other filter parameters.

The screenshot shows the SeaTube Search interface with several red annotations and arrows pointing to specific features:

- filter by expedition**: Points to the Expedition filter dropdown.
- choose specific dives**: Points to the Dives filter dropdown.
- search for specific keywords**: Points to the Text filter dropdown.
- filter by people who created annotations**: Points to the Creators filter dropdown.
- filter by people who modified annotations**: Points to the Modifiers filter dropdown.
- choose many additional filter options**: Points to the "ADD FILTER OPTION" and "CLEAR FILTER" buttons.
- preview annotations before exporting them**: Points to the Search Results table.
- add annotated segments to a video playlist**: Points to the "ADD TO EXISTING PLAYLIST" button.
- export video stillframes along with the annotations**: Points to the "Include Video Snapshots" checkbox.

The Search Results table contains the following data:

Date	Text Comment	Dive
2019-11-18T15:10:26.000Z	Candidella imbricata (shingled tree coral) ID: 125406 [WORM]	E1907_DIV
2019-11-18T16:08:33.000Z	Lophelia pertusa (spider hazards; white stony coral) ID: 135161 [WORM] standing dead	E1907_DIV
2019-11-18T17:17:55.000Z	Alcyonacea (gorgonians; gorgonians, sea fans, and sea feathers; horny corals; soft corals) ID: 1365 [WORM] 10 cm wide 15-20 cm tall	E1907_DIV
2019-11-18T19:54:17.000Z	Antipatharia (black corals; thorny corals) ID: 22549 [WORM] Parantapathes	E1907_DIV
2019-11-18T20:23:59.000Z	bamboo coral	E1907_DIV

(Watch demo video)

Managing Expeditions & Dives

Full Expedition List

Expedition Listing

This [Expedition Listing](#) page shows all expeditions catalogued within Oceans 2.0 since 2006. Not all expeditions had ROV dives with video recordings.

- Click a column header to sort the list by that column in ascending order; click it a second time to sort in descending order.
- Click the Expedition ID for details about it; this takes you to its Expedition Maintenance page.
- Click View Dives for an expedition to open its Dive Listing page, where you can see a list of all catalogued dives from that expedition.

Ocean Networks Canada Expedition Listing Logged in as Dwight Owens | Profile | Help | Logout

Oceans 2.0

Data Preview Data Search Plotting Utility SeaTube Digital Fishers Cameras More Admin Request Support Report a Problem

sortable columns

Expedition Id	Logs	Name	Organization	Current	Start Date	End Date	Platform	Description
1	View Dives	VENUS Cable Installation 2006-02	Ocean Networks Canada	N	05-Feb-2006 00:00:00	07-Feb-2006 00:00:00	CS Wave Venture	Deployed Node (SI) Deployed backbone cable (SI) Tested system Deployed VIP (SI)
3	View Dives	VENUS Maintenance Cruise #2 2006-07/08	Ocean Networks Canada	N	31-Jul-2006 00:00:00	07-Aug-2006 00:00:00	CCGS John P. Tully	Recovered VIP (SI) Recovered Camera Platform (SI) Deployed Camera Platform (SI)
5	View Dives	VENUS Maintenance Cruise #3B 2006-11	Ocean Networks Canada	N	06-Nov-2006 00:00:00	10-Nov-2006 00:00:00	CCGS Vector	Deployed VIP (SI) Deployed Camera Platform (SI, SIIM Failure) Recovered Camera Platform (SI) Recovered Hydrophone Array
6	View Dives	VENUS Maintenance Cruise #4 2007-01/02	Ocean Networks Canada	N	30-Jan-2007 00:00:00	05-Feb-2007 00:00:00	CCGS John P. Tully	Deployed Hydrophone Array (SI, new design) Recovered VIP (SI) Deployed Camera Platform (SI)
8	View Dives	VENUS Maintenance Cruise #5 2007-09	Ocean Networks Canada	N	10-Sep-2007 08:00:00	16-Sep-2007 08:00:00	CCGS Vector	
9	View Dives	VENUS Maintenance Cruise #6 2007-10	Ocean Networks Canada	N	15-Oct-2007 08:00:00	20-Oct-2007 08:00:00	CCGS Vector	SOG Junction Can capping and SOG East Node Pod, VIP and Hydrophone Array deployment
10	View Dives	VENUS Maintenance Cruise #7 2008-02/03	Ocean Networks Canada	N	24-Feb-2008 08:00:00	01-Mar-2008 08:00:00	CCGS John P. Tully	Service SI instruments Service SoG instruments Deploy extended Deploy Delta Platform
11	View Dives	VENUS Maintenance Cruise #8 2008-09	Ocean Networks Canada	N	22-Sep-2008 08:00:00	30-Sep-2008 08:00:00	CCGS John P. Tully	Service SI instruments Service SoG instruments Install Central Install Central VIP Recover Delta Platform
	View Dives	VENUS Maintenance Cruise #9 2008-11	Ocean Networks Canada	N	10-Feb-2009 08:00:00	17-Feb-2009 08:00:00	CCGS John P. Tully	Service SI instruments Service SoG instruments Deploy SI IP

([Watch demo video](#))