ONC Oceans 2.0 Data Portal (De Leo, Scherwath, Jenkyns)

Step-by-step 'script'

LOG-IN

- Log-in Page (Privacy statement - what is this? explain briefly Data Policy)
- Mention that this system only displays NEPTUNE and Arctic Observatory data. VENUS has its own data portal since it was developed way earlier; but we are in the process of merging/ incorporating VENUS data into the Oceans 2.0 portal.

1. Plotting Utility (explore the data) - M. Scherwath

Brief talk about data QA/QC process before having data available on Oceans 2.0

* Have your 'installation' detailed map at hand (Example: Barkley Canyon)
* Show examples of list of instruments and devices (also from installation tab)

Explain whole Upper horizontal menu

(Data Search* > Code Runner**> Plotting Utility> Seatube* >Digital Fishers*** > Cameras* > Projects > More > Tools)

* Fabio is going to cover

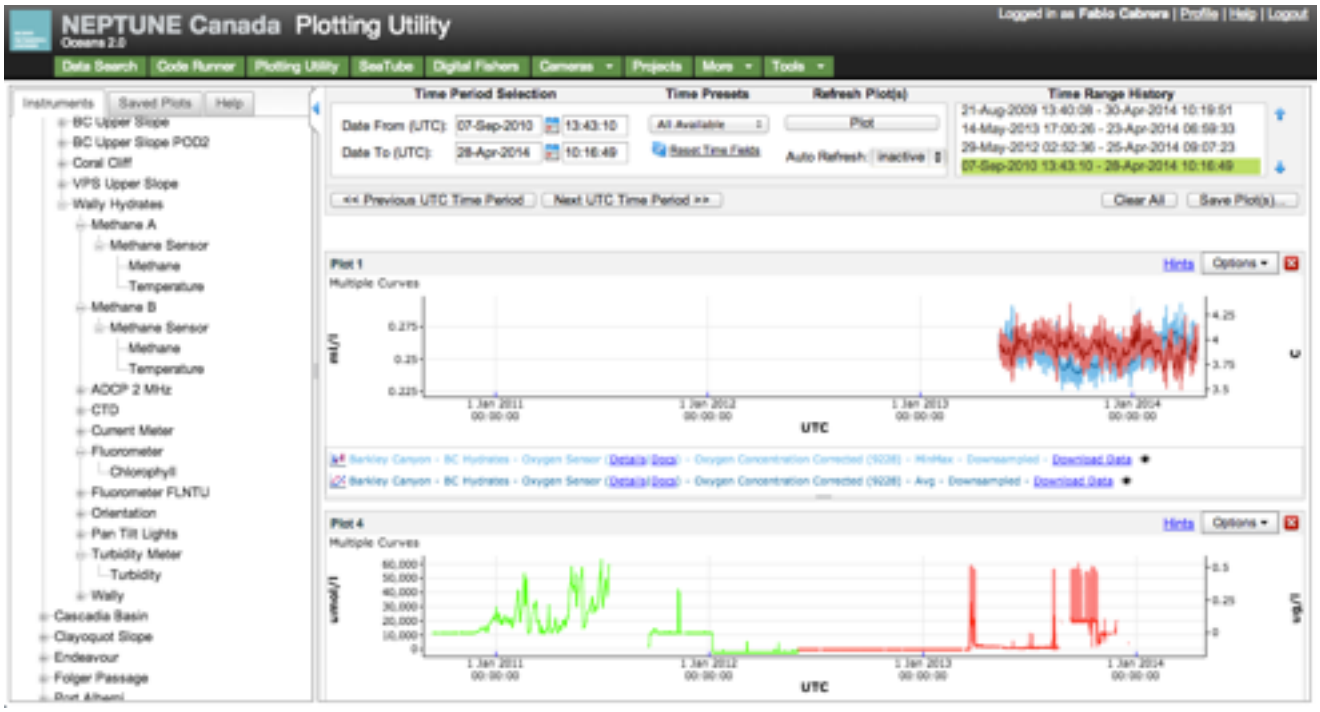
** Reyna is going to cover

** Natasha is going to cover

1.1. Example1 (Barkley Hydrates/Wally hydrates/Wally)

- Plot **O2** and **Temperature** in the same chart (both plots from Barkley Hydrates). *Show how to right-click on the drop-down 'sensor' menu to plot two parameters in the same chart.

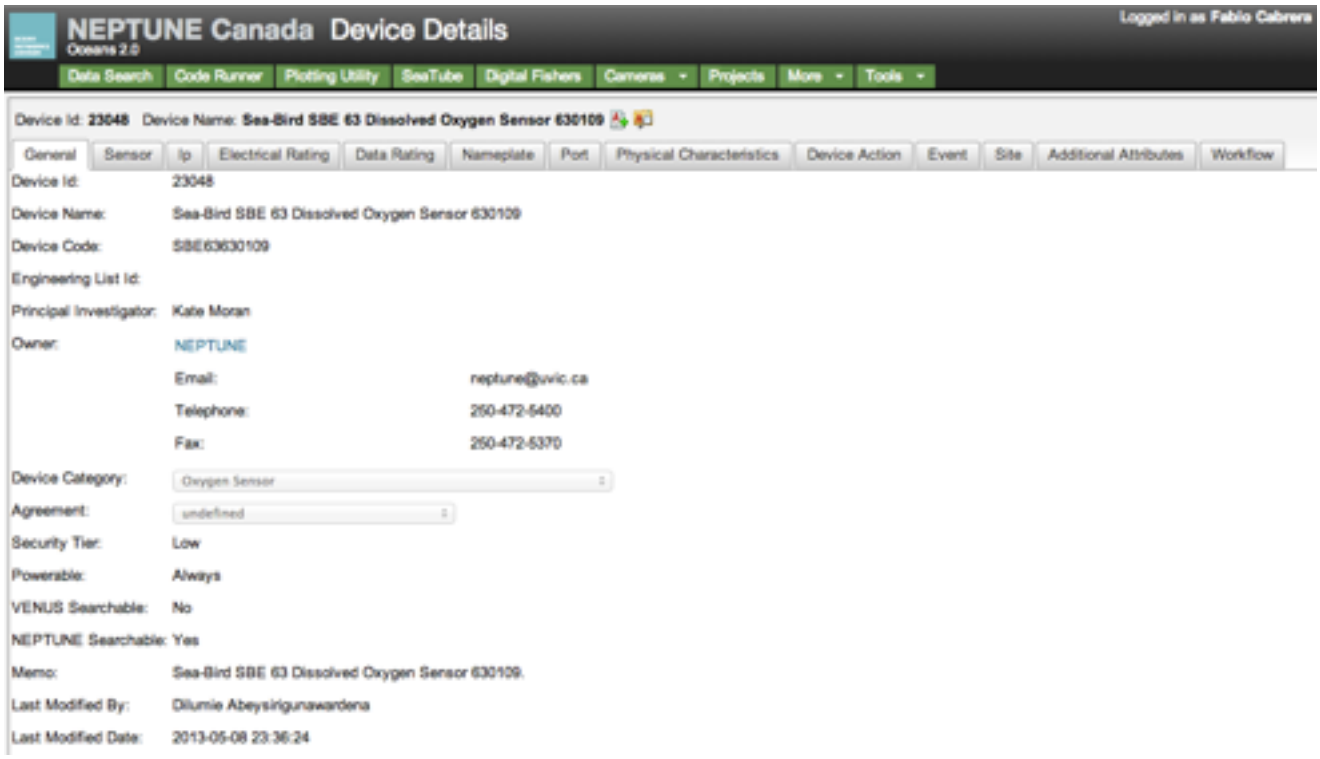
- Plot **Turbidity** and **Chlorophyll** in the same chart (from Wally Hydrates)



* Explain how the data displayed is constrained by data availably. If the plot below has more data available, it will constrain the data displayed in the top two charts (as in Figure above).
* Explain how to dive in the data (either dragging and dropping the + cursor, or selecting the exact time period or time presets from the menus/tabs above). To go back to the whole data set just click on 'all available' and hit 'refresh' plot.

Links for Device Details page (go over briefly into the main tabs - **R. Jenkyns**):

- General (PI, contact info, etc)
- Sensor (which sensors, IDs, units)
- Device Action (chronology, deployment, pre-deployment tests/calibration)
- Events
- Site (current destination)



Link for Documentation page (from bottom of chart)

- List of documents available (Calibration coefficients, User Manual). Very briefly go over this section.

- Also in the tabs below the charts you have links to download the data (both the **min/max** or the **Avg. data.** What those mean? Does it vary according to interment type, etc)

Options tab (to the right of the charts) - Cosmetics - Back to Scherwath

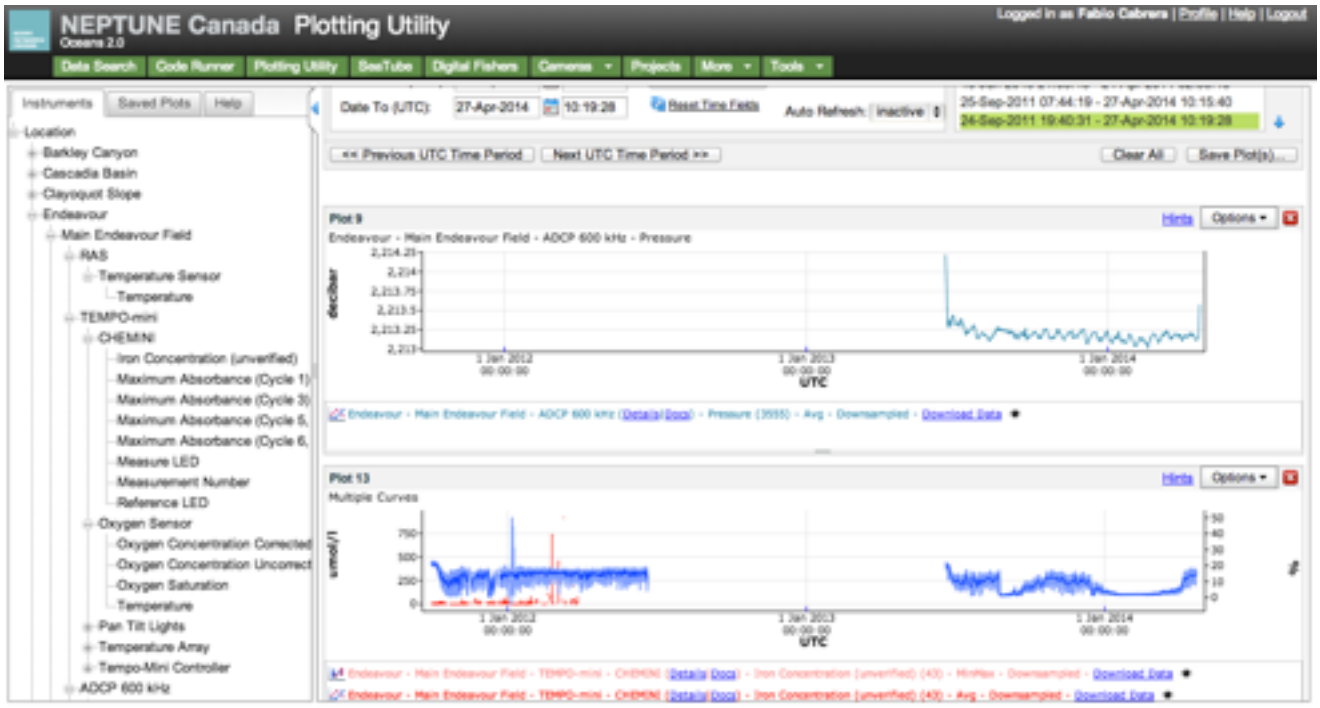
- 'Image of the plot'
- 'Plotted values' (quick look at the data) - Explain why they differ from real data on data search
- 'Plot properties' (briefly overview of 'Plot', 'Axis' and 'Curve' tabs)

1.2. Example 2 - Endeavour (MEF)

- Plot **ADCP 600 KHz Pressure** data in one plot. Go in 'Options' > 'Plot properties' and select the option 'line'.

- Plot **Tempo-MINI Chemini Iron Concentration** and Oxygem from Oxygen Sensor both in the same plot

* Again just point to the links about all the metadata, device details, etc at the bottom of the charts.

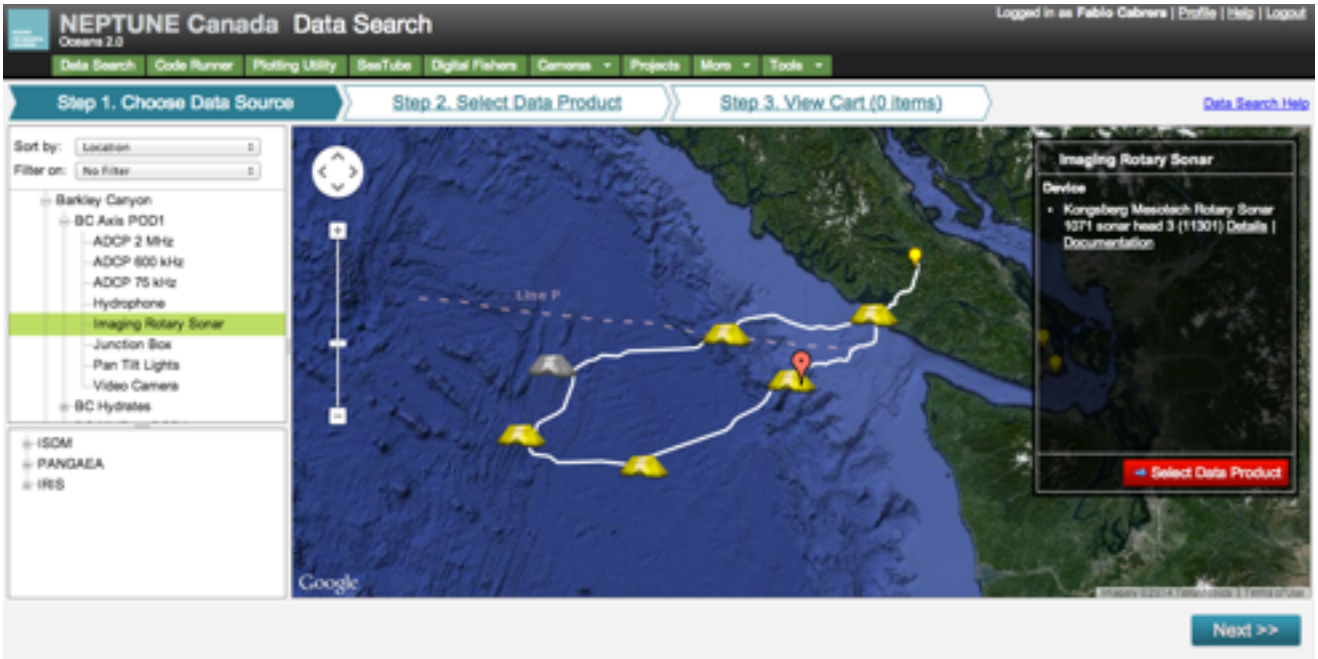


2. Data Search (Tool to Download Data) - F. De Leo

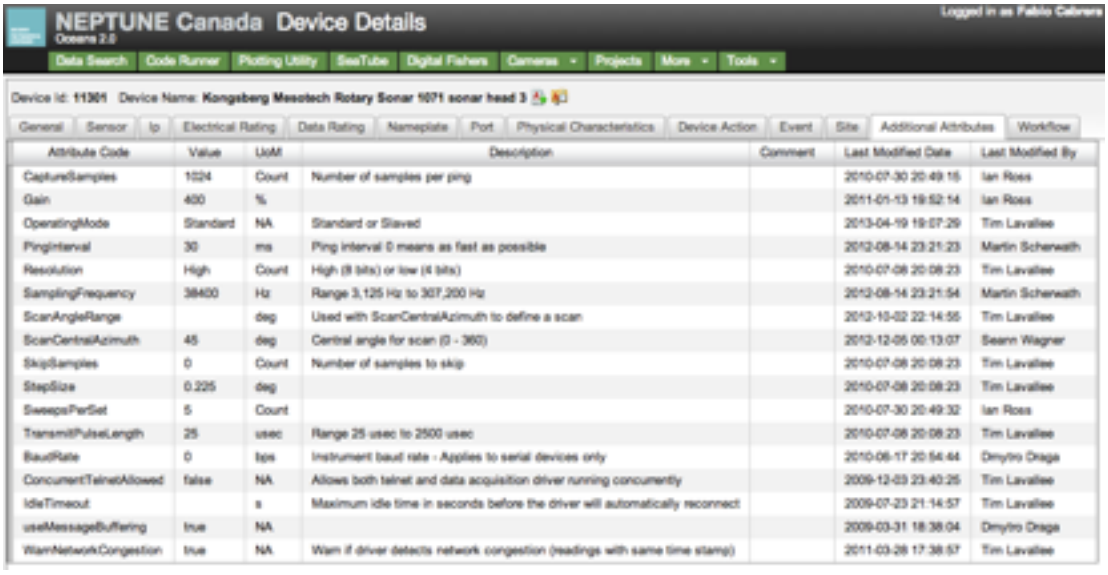
* Briefly explain concept of shopping cart (like Amazon for example), with Steps 1,2,3
* Explain left-panel hierarchical tree where data products can be sorted by ‘Instrument type (alphabetical), ‘location’, ‘topology’ or ‘project. Explain also ‘Filter on’ option

2.1. Example 1 - Barkley Canyon

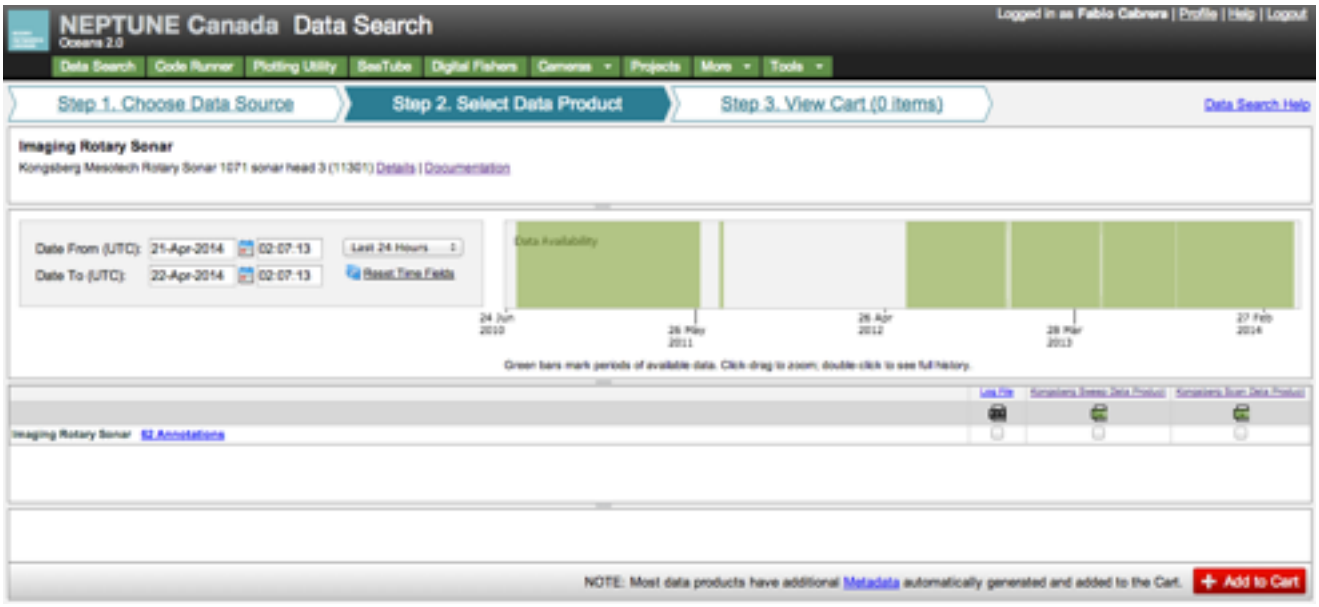
- In BC Axis POD1 Select **Imaging Rotary Sonar**
- At ***STEP 1*** (select device/instrument).

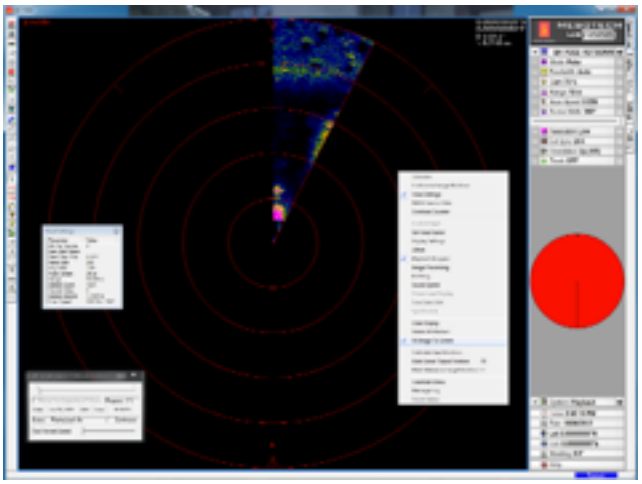


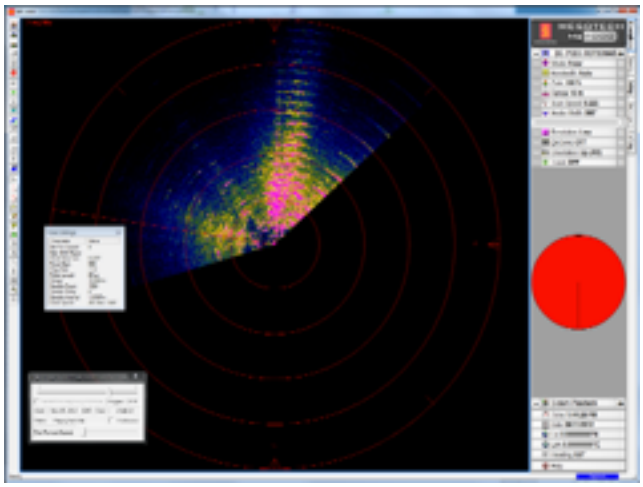
- Open the '*Documentation'* page and briefly explain contents and show photo.
- Open *Device Details* page (just mention this was already covered by Reyna, only cover the tabs '*Data Rating*' (once per hour) and '*Additional attributes*' and explain:
  - Sweeps per set (5) , 'Step size', 'Scan Central Azimut'.



- At ***STEP 2*** (select/click data products)
  - see/explain data availability (dive into specific time range either by selecting a window inside the green box or manually imputing the date/time range)
  - click data products boxes (click the log file to briefly explain what contains)
  - Click on links for explanations about data product (*SWEEP* X *SCAN* mode). Click and zoom in the images.







* Is it worth mentioning about the ***annotations*** tab?
- Select data products and click **ADD to Cart** and **Next**

- At ***STEP 3*** (check the status of the data product loading)
  - download files and metadata by clicking the selecting the items in the cart and pressing ***download.***

- *Troubleshooting* - **File Download** tool (staff scientists can double check all the files available for that instrument)
- Click on file Download just show how it looks like (select the last day of any Kongsberg sonar and point to the file naming with time stamps on it, file size, etc on the resulting file listings)

2.2. Example 2 - Endeavour (see how we are doing with time…we can skip it if we think they had a good sample in Example 1)

- Main Endeavour Field (MEF)
- At **STEP 1** (select device/instrument)
- Select **TEMPO-MINI Video Camera**

> Click on *Documentation* page (brief description, show documents available and show pictures)

> Point to *Device Details* page (do not need to go over again…)

- At **STEP 2** select the time range (last 2 hours)
- click in the **MP4 file** data product box as well as in the l**og file** data product
- download the files (show a sample video).

3. SeaTube PRO (View, Query and Annotate Videos) - F. De Leo

* Mention the all our data portal tools are in constant improvements based on user requirements. Mention example of Dhungal at the Marine Imaging Workshop, who gave input on how to improve the annotation interface.
* Videos are stored from our ROV video/visual surveys and also from the fixed cameras.

3.1 ROV Videos - Examples

OE0059 (Search 'INDEEP': RESULT 'Moving the INDEEP to the camera tripod)

R1555 (Clayoquot Slope: 'crab' for crab faming methane bubbles)

R1555 (Clayquot Slope: 'Corals' (3:05), 'Whale Bones" (5:29), 'Tubeworms' (8:05), bacterial mat).

* Show the query tool ('Search Comments - Within a video).
* 'Add annotations' tool
* 'Take a snaphot' tool
* 'Search All Videos' tool (Search all the video library)
* 'Make a short video for
* Explain play lists (show my playlist)
* MAP > PROFILE > DETAIL tabs (explain briefly)

Fixed Camera Videos - Examples

Barkley Canyon POD1

2013 > July 15 > 10:05:31 (kelp blade)

2013 > August 25 > 22:00:16 (Copepod rain)

* Add Annotation (Shared?, Flagged?)

Barkley Canyon POD3

2013 > October 15 > 22:05:41 (Copepod rain)

Wally Hydrates

2014 > April 14 > 9:20:49

* Show how the number of videos depends on the scientist controlling the Crawler

Camera control pages (try to match when light schedule will go on). If not turn the lights on Tempo-Mini on)

* Tabs MAP > INFO > USERS > MESSAGES

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