

# 2012 Release Notes

## 6 December 2012

### NEPTUNE Improvements:

- Improved the way Plotting Utility averages data to reduce the number of data points when there are too many to plot. The data is now averaged in fixed time duration cells of 1,5,10,15,30 seconds, 1,5,10,15,30 minutes, or 1,6,12, or 24 hours, or 1 week, whichever is closest to the actual cell width. When averaging is performed, this is noted in the Plotted Values table and also in the information bubble in Plot Settings.
- Plotting Utility now handles Location searches better, especially if multiple instruments have been deployed at the same location at different times.
- Cancelling a running task in Data Search now stops the job from running.

### VENUS Improvements:

- Added drivers and parsers for MacArtney winch and RM Young meteorological station, to support the upcoming BPS (profiling system).
- Added a BPS View page under [More >> Infrastructure](#) in order to display the readings from all sensors on the BPS at the same time.

## 15 November 2012

### Arctic Network Improvements:

- Added live cameras for Cambridge Bay.
- Improved accuracy of ice thickness sensor calibration, as well as all weather station barometric pressure calibrations (pending reprocessing).

### NEPTUNE Improvements:

- Added popup description panels for most instruments and locations on Data Search.
- Added PDF versions of time series scalar, time series scalar profile, AGO, BHT, COVIS, RDI and Nortek data products. The PDFs use vector graphics so they can be magnified without pixelization.
- Improved appearance of all PNG data products by increasing the resolution to 300 DPI (letter-size paper) among other PNG improvements.
- Applied human-perception based colour-maps to many data products. These colour-maps are also compatible with most forms of colour-blindness.
- Changed the SMB file names for the Kongsberg sonar data product to indicate whether the file corresponds to a sweep or a scan.
- New "Ocean Dynamics Falcon ROV camera" for showing diver video
- In Annotation Search, the Modified Date column has been moved well away from the Start Date and End Date columns. This will help put focus on the dates corresponding to the data that were annotated, rather than the dates the annotation were made.
- Renamed CSV files to include "NaN" in the filename if the NaN (Not a Number) version of the CSV data product was produced. This allows you to download both NaN and non-NaN to the same folder.

### Other:

- Deployed a new Digital Fishers campaign to map the seafloor geology at Endeavour (actually deployed before the software update, on November 5)

## 25 October 2012

### Arctic Network Improvements:

- Made the ASL SWIPS ice profiler available for data searches and plots

### NEPTUNE Improvements:

- Added 15 MIN AVG Matlab and netCDF data products for Nortek ADCPs.
- Added ability to delete items from Completed Data Search carts.
- Added ability to select several completed Data Search products and download together in a zip file including metadata.
- Separated Imagenex .837 files into Scan and Sweep files.
- Created first set of data products for 3D camera (raw.zip and bmp.zip).
- Added 3D camera post process job for generating bmp file.
- Added Ice Profiler and data products for Cambridge Bay.
- Added 6 new Sea-Bird SBE37SMP-ODO CTDs
- Added Moxa driver and control page for Cambridge Bay.
- Added driver for Pro-Oceanus Mini-Pro CO2
- Added driver for Satlantic pH Sensor
- Sea Tube can now display "satellite" quality videos (with text overlaid). Defaults to "low" resolution unless only satellite quality is available, in which case that is displayed instead. Satellite quality is lower than "low" quality.
- Added admin page for new Coastbuster mobile phone application.
- Added a dashed line to represent the ISDM Line P sensors on the Data Search map.
- New webservice to extract QAQC results by sensorID
- Added "type of search" to e-mails for failed searches
- New CSV data product for VPS (Vertical Profiler System) Casts
- Can now use sensor values from other devices in calibration formulas.
- Reference links for Plotting Utility will now automatically switch the receiving browser into the correct network if it isn't already. For example save a plot for the Arctic network and send its reference link to someone who usually uses Oceans 2.0 in the NEPTUNE network. When the link is

pasted to the NEPTUNE browser's URL box, it will bring up the plot in the Arctic network. Note that all subsequent work in this browser will be in the Arctic network until you switch back to NEPTUNE using Tools >> Network Preference.

- Improved e-mails that are automatically generated when searches failed. E-mail now states which sensors were selected in the search, and which ones failed. They will also make it clear whether it was a Location or an Instrument search.
- Search failure e-mails are now sent regardless of the network used (NEPTUNE, Arctic, etc.).
- The way subsampling can be selected in Data Search has been improved so that you can browse the subsample types without actually selecting one.
- When selecting an instrument in Data Search using Sort by Instrument Type, all present and previous locations of that instrument are shown with pins on the map. The improvement was to colour the current location with a green pin.
- In Data Search when sorting by Location, if you click on a yellow instrument node, the "tree" on the left that shows the locations and instruments will be expanded at the location corresponding to the node you selected.
- Added CTD, light sensor, Fluorometer, and oxygen sensor at Folger Pinnacle
- Added Ocean Presence OceanCam colour video camera at Folger Pinnacle. Note that the video can be viewed during all daylight hours, although the lights are turned on each day from 0800 to 0845 and 1200 to 1245 Pacific Time (1500 to 1545 and 1700 to 1745 UTC). The videos for any previous period can be found in SeaTube under Locations >> Folger Passage.

### VENUS Improvements:

- Added metadata reports for VENUS images, video, and hydrophone recordings.
- Oxygen data is now available in a choice of three units - micromole/L, micromole/kg, as well as the original ml/L

## 02 October 2012

### NEPTUNE Improvements:

- Added metadata reports when data searches are made for audio and video data products.
- Added a UI page under Sensor Maintenance (a child page under Device Details) where you can define the sensor calibration formula.
- Task Monitor now shows the task history details.
- In Data Search, the location of the pins showing where instruments have been deployed or are currently deployed is now more accurately placed. As well, the map centers more accurately when an instrument or a location is selected.
- IT now has the ability to place a warning message on the screens of all users who are using Oceans 2.0. This may be used to warn of upcoming outages, etc.
- SeaTube can now display "satellite" resolution in addition to low and high resolution, where available. This is usually the same as "low res" except that text is overlaid over the video indicating the exact time, position, heading, and depth. It gets updated every 5 seconds. In many cases the video will start playing as soon as the video is selected, as opposed to low and high res where you sometimes need to select a point further down in the dive log before you start to see video.
- Scan mode was enabled for the Kongsberg and Imagenex sonars.
- The Electrical Rating tab in Device Details now shows the "Power-on inrush current" value (may not be visible to all users yet).
- More improvements added to the new Workflow tab added to Device Details in the last release.
- Device documentation was added for Sea-Bird SBE 63 Dissolved Oxygen Sensor.
- Device documentation was added for the arctic ice buoys.
- Added support for a new Ocean Presence OceanCam camera that will be deployed at Folger later this month.
- Improved the headings in the data availability plot linked to the metadata reports.
- Changed the weather station rainfall rate units to mm/hr, wind speed units to km/hr, and barometric pressure to kPa, which are the standard meteorological units in Canada.
- Added a new data product for profiling instruments, such as those on the VPS: Time Series Scalar Profile Plot.
- Added instrument documentation for hydrophones 23112, 23113, and 1230.
- Automatic annotations are now created when device drivers are started or stopped using Device Console.

### Other Improvements:

- A device driver was written to support the ice profiler instrument being deployed at Cambridge Bay, Nunavut.
- The final pieces were put into place to support the new Cambridge Bay observatory, which is part of the Arctic network.

## 05 September 2012

### VENUS Improvements:

- The SensorDataService web service has been improved to allow you to specify how many rows of data you want returned. The maximum is 100,000 rows per sensor.
- Added MAT V7, raw text file, and CSV data formats for the Sequoia LISST-100x device.
- Modified the SearchInfoService to indicate whether the device is a piggyback sensor or not.
- Modified the type of data that is parsed into the hourlyScalarSample table, depending on the QAQCResult value.
- CODAR data is now available from the Download Data / By Instrument page.

### NEPTUNE Improvements:

- The videos taken during the May/June NEPTUNE maintenance cruise are now available in SeaTube in high definition format.
- In order to make it more clear how to use the Data Search feature, the "carts" that you use to fill and process your data products have been renamed to "Open Cart", "Processing Cart", and "Completed Cart". This model should be more familiar to users.
- We now allow driver JVM startup with no database connection. This will allow Cambridge Bay to continue to collect data even at times when the network connection to the servers at the University of Victoria is down.
- A new "Workflow" tab was added on the Device Details page. This new feature will allow us to track the steps involved in adding a new instrument, from procurement through to commissioning. Only certain users have permission to edit the workflow.
- In order to make it more clear for our users, the following buttons in Plotting Utility have been renamed:\*\* "Update Plots" was changed to "Plot" since it also applies to the initial plots.\*\* "New Session" was changed to "Clear All"\*\*\* "Save Plots" was changed to "Save Plot(s)"

- Added support for new instruments to be deployed in the September cruise, including Kongsberg rotary sonars, Ocean Sonics hydrophone, Nortek Aquadopp Profiler.

#### Other Improvements:

- A device driver was added for the new ASL Shallow Water Ice Profiler, which will soon be installed in Cambridge Bay, Nunavut, Canada.
- Created data products for the soon-to-be-deployed Cambridge Bay observatory instruments, including WETLabs Water Quality Monitor, Davis Vantage weather station, and OceanCam camera.

## 02 August 2012

#### VENUS Improvements:

- Added support for RDI 300 kHz ADCP, serial 17955, to be deployed at Bottom Boundary Layer platform
- Added driver for WetLabs FLNTUS 1042 for SoG Central
- Changed calibration for SeaBird 63 0202
- Added support for SeaBird 16+ CTD, serial 7128, to be deployed at Saanich Inlet
- Changed calibration for Aanderaa Optode 1684 and 0579
- Add new data products (animated GIF and AVI) for Imagenex devices.

#### NEPTUNE Improvements:

- The metadata report, which accompanies most scalar data search results, now has a link in the Data Quality section that will open a data completeness graph. This bar chart shows the number of data samples that were received in each 15 minute block as a percentage of the number that were expected. Drag-selecting allows you to zoom in on a selected date range.
- The seismometer state of health data is now being archived.
- FTP passwords are now encrypted
- Some UI improvements were made in the Topology View page

#### Arctic Region Improvements:

- Added a number of devices to the database to prepare for deployment of mini observatory at Cambridge Bay, including ASL Shallow Water Ice Profiler, and Nortek Aquadopp Current Meters and Current Profiler. These are not yet available in Data Search.

## 11 July 2012

#### VENUS Improvements:

- SeaKeeper Ferry data is now being transferred into the database.
- Added additional data products to the Nortek Vectrino Current Meter 0463
- Added device and sensor details for new SeaBird 69788 oxygen sensor.
- Improved the PrimarySensor page, mainly for internal users.
- Changed the calibration for Wetlabs FLNTU 060901 and 1325.
- Added RDI ADCP 150 kHz 17457 as a slave to ASL ZAP 1008.
- Added device and sensor details for Nortek Vector MicroSquid 4868.
- Added enhancements to the SeaKeeper Ferry FTP processes.
- Added improvements to Device Console to save an annotation when a driver is stopped or started.

#### NEPTUNE Improvements:

- If a data search fails for a reason other than no data for that date range, a ticket will be automatically generated in our Jira bug tracking database. This also applies in the Brentwood and Arctic networks.
- Improved the frequency of processing progress reporting and the overall reliability of the data searches for scalar data.
- When you do a Data Search by Location, MATLAB data products no longer create separate files if a different instrument was deployed during the search period.
- In the metadata report that accompanies data search data products, data gaps had previously been listed for every gap of greater than 15 minutes, regardless of the number of gaps or the sample period (data rating). Now the report will list only the ten largest gaps. A gap is now defined as expected data that is missing for at least one minute and at least 2 times the sample period or subsample period. So for a one second sample period the gap must exceed one minute. For a one hour sample period the gap must be at least two hours. In any case only the top 10 gaps will be reported in the metadata report (although the CSV NaN data product will show ALL gaps as NaN values).
- A bar chart has been added to show the percentage of expected data available for a given search in 15 minute blocks; ie. to graphically show the data gaps. Only after it has been fully developed will we add a link to it from the metadata report.
- Created a Wiki page to describe the contents of the metadata report (<http://wiki.neptunecanada.ca/display/DP/Metadata>).
- Added more "VPS Cast" data products and improved existing data products for all instruments on the Vertical Profile System ("POGO"). An "up cast" is the entire period of time that the VPS is traveling towards the surface, and includes any time that it spends paused at a certain depth. It ends only when the VPS starts to go down. A "down cast" ends when the VPS is either docked at the sea floor or starts to go back up. Hysteresis has been applied so if the VPS temporarily changes direction (less than 20m cable length each time), these are not considered casts. If the date range you choose starts or ends in the middle of a cast, the data product will automatically include the entire cast. The cast data products include .mat files, .png plots and device-specific non-scalar products such as the radiometer .raw files. The cast plots pressure (depth) versus sensor data rather sensor data versus time. Because some instruments contain many sensors, the cast data products, which are device level products, automatically use a fixed subset of interesting sensors; you cannot choose the sensors.
- VPS cast plots are also available for Engineering data, such as cable length, cable tension, the amount of drift etc. - see the Adapter instrument.
- VPS cast data products automatically include the pressure data from the CTD on the VPS as a reference for depth. If there are data gaps in the pressure, the cast data products will linearly interpolate the missing points up to 1.5 times the sensor sample rate.

- Added a new feature called Task Monitor to the Tools menu. This feature lets you follow the progress of scheduled jobs, data searches, etc. It is mainly intended for NEPTUNE staff.
- Junction boxes (JB) no longer appear in Data Search when you filter on Temperature.
- RDI ADCP netcdf data products now include vertical velocity.
- Added documentation for the Kongsberg rotary sonar data products (<http://wiki.neptunecanada.ca/display/DP/48>).
- Cleaned up the list of cameras in the Cameras menu.
- The frequency of resetting the CO2 sensor on the VPS is now a variable that can be changed. It used to be fixed at 3 hours.
- Recalibrated some of the sensors on Wally.
- Fixed pan and tilt problems on new DragonFish camera at Barkley Upper Slope and started an automatic schedule for the lights.
- Set up an automatic schedule for the plankton pump to take a sample every two weeks.

#### Other Improvements:

- When you select the Brentwood College network in Data Search and sort by Location, the locations are now relevant for that network.
- When you select the Arctic network in Data Search, the map now centers in the arctic region of Canada. A node appears at Peel Sound. When you sort by Location, the locations are now relevant for that network.
- Data being received from ice buoys in Peel Sound (via e-mail) is now being transferred into the database as it arrives and may be seen using Plotting Utility. Two types of e-mail format are supported.

## 20 June 2012

#### VENUS Improvements:

- Added the ability to upload meteorological, ocean, and navigation data from instruments located on British Columbia ferries into the VENUS database.
- Developed a visualization tool for monitoring the ferry data.

#### Arctic Improvements:

- Added infrastructure for the new Arctic network to allow data from ice buoys in Peel Sound, Nunavut (northern Canada) to be ingested into the NEPTUNE database. Data is sent via e-mail over satellite automatically.

#### NEPTUNE Improvements:

- Added an SMB data product for the Kongsberg rotary sonars (in Data Search).
- Added a new data product for Radiometers on the VPS (vertical profiler system).
- Improvements made to Task Monitor, which is now available on the Tools menu.
- Added new DragonFish camera which has been deployed at Barkley Canyon.

## 24 May 2012

#### GENERAL:

- Added new Arctic network. See Tools -> Network Preference. Note that not all web pages have fully implemented this new network yet.
- Created a series of web pages for the public to monitor the upcoming maintenance cruise. See [www.neptunecanada.ca](http://www.neptunecanada.ca). These pages are also compatible with the Apple (TM) iPad.

#### VENUS:

- Added web pages for internal VENUS users to create and modify QA/QC tests.
- Added support for new instruments collecting data from British Columbia ferries (ships).
- Added web plots for Imagenex SONAR.
- Added new instruments including SeaBird CTD 6938 and 6937, SeaBird 43 oxygen sensor, Alec Electronics Rinko-III 0085, Wetlabs FLNTUSB 2474, Nortek Aquadopp Current Profiler 5281, Aanderaa Optode 4175, Sequoia LISST 100X.
- Added many devices for the Seakeeper Ferry platform.

#### NEPTUNE:

- Added new data product for VPS (Vertical Profile System) to display data throughout a "cast" - ie. one up-down deployment cycle.
- Added new instruments including Naxys Ethernet Hydrophone 02345 (for VPS), Seapoint Fluorometer TMP1 and Panasonic Webcam WV-SC384 and Nortek Aquadopp Current Profiler AQD9917 (all for Wally the Crawler), Nikon D700 camera (for Endeavour), RDI ADCP 600 kHz (for Folger), Ocean Presence OceanCam TMP2

## 3 May 2012

#### VENUS:

#### Improvements

- Improvements in the way VENUS data searches are done. Should result in better performance.
- Warning now appears if you attempt to search for more than one hour of SciFish data at one time, due to the very long download time.
- Added a PNG/PDF option for plotting some data collected from ferries.
- Added PNG, PDF, and Matlab 7 data formats for vector data products.

## NEPTUNE:

### Improvements

There has been a lot of work done on the Data Search page:

- Clearly marked three step workflow.
- Sort by Location now takes care of the case where more than one similar instrument was deployed at that site over time. It will automatically list all relevant instruments and sensors, and the data search will stitch together the data from all relevant instruments in that time range. The new metadata report will list all instruments that were involved in the search and the date range that each was deployed.
- Sort by Location now shows a simplified list of sites. All searches made when sorted by location will only show data collected at the selected site, even if the instrument was deployed at multiple sites within the search period.
- Large map that shows all NEPTUNE nodes. Clicking on a node gives information about what is interesting at that location.
- When an instrument is selected, red pins appear on the map showing all locations where that instrument has been deployed. Hovering over the pin gives lat, long, and depth
- A new step was added to allow you to add items to the "shopping cart", then review them before you run any of them.
- Data product results are shown in a new tab rather than on the search page.
- Details about each data product are more clearly displayed in tables.
- Note that completed data products cannot be deleted from the table but will automatically disappear after one week.
- Link beside each data product (Action column) allows user to send e-mail to NEPTUNE Canada requesting assistance for that particular search.
- Links to FTP folder beside each data product have been removed, as has the Download button. Now only obvious way to download your results is by clicking on the download link. However the FTP folder is still available in the More menu for anyone who still wants to use it.
- A metadata report is now automatically produced for most scalar sensor data products. Excluded at this time are the COVIS multi-beam sonar, and Davis weather station.
- Added instructions beside the Data Availability chart to explain what the green bars mean, and how to zoom in and out.

Other improvements:

- The BioSonics Echosounder now has a .dt4 data product.
- Digital Fishers now displays a popup at startup describing the current mission - ie. why the scientists selected the current set of videos to be analyzed and what they are asking the public to help them study. The mission statement can be reviewed at any time using the Current Mission "button". All annotations made will now contain the name of the mission (campaign) to help with sorting later.
- In Digital Fishers, added "Trawl Marks" to the Objects choices at all levels to support the next campaign.
- The Annotations Search page now displays the Campaign name (only applicable for Digital Fishers annotations) and allows you to specify the campaign in your search.
- On the Annotations Search page, when annotations are exported, the resulting CSV (Excel) file will separate the Digital Fishers sealife, objects, water, and seafloor comments into separate columns to help with analysis.
- In Plotting Utility, Sort by Location now works the same way as the new Data Search. If more than one instrument was deployed at that location during the search period, all the data will be stitched together and all instruments will be listed in the legend and in the plot settings. You are able to change the colour or chart type to distinguish between different instruments if you wish but by default it will be plotted as a line of one colour.
- In SeaTube, the Playlist button now changes colour when recording. Playlists now show the corresponding dive log from the original video, and you may make annotations on your playlist videos.
- Improved video workflow so that ROPOS videos from maintenance cruises will require less post-cruise processing and will be available in SeaTube sooner. All dives videos will now be stored in 11 minute segments, although in SeaTube they will appear and will play as one continuous video.
- For CSV (Excel) data product files containing columns for multiple sensors, the sensors are now grouped by sensor type rather than sensor ID number.
- Updated the CSV (Excel) data product to support Location searches where more than one instrument was deployed at that site within the search range.
- All CSV data products now give you the option to select a "NaN" version of the CSV file (separate checkbox). This version will fill in all data gaps and insert interpolated clock times and NaN as the data value (Not a Number).

## 27 March 2012

## VENUS:

### Improvements

- Changed the FiledownloadService to support JPG images for the DSC01 camera.
- Modified the way task virtual machines are used so that VENUS and NEPTUNE searches can share all the task machines in a common pool. This should provide more even resource loading.

## NEPTUNE:

## Improvements

- Added a "Playlist" feature in SeaTube. Click the + icon to mark the beginning of an interesting video. Click + again to mark the end. This video segment will be added to your playlist under a name you choose.
- Added a new metadata data product that is automatically generated when you generate any other data product for a given device. This is a PDF that explains all the details of the data search, the location of the instrument at that time, how to cite the data, lists any gaps in the data, etc. It also includes a link to display any relevant data annotations. Only enabled for ADCPs with device IDs 12002 and 11206 at this time.
- Added Digital Fishers to the main menu bar.
- In Digital Fishers tutorials, added text to remind users to click on the buttons in the tutorials to see graphic illustrations for each annotation category.
- In Digital Fishers, added a popup message at startup to announce the mission of the current data analysis campaign (only has a default message for now). Also added a button to recall this mission at any time.
- In Digital Fishers, greatly improved the performance of loading the cards earned and status on startup.
- In Annotation Search, greatly improved the performance of doing very large searches. Now the results are displayed in pages of fixed sizes and you can navigate between pages. You can also sort most columns by clicking on the column heading (the entire search results are sorted, not just the page currently being displayed).
- Added support for Station searches where different instruments were deployed at that Station over the date range of the search. Only deployed internally at this time.
- Added additional improvements to a new version of Data Search being developed, but which is only available internally at this time.
- Plotting Utility now handles the case where different instruments were deployed at the same Station over the date range of the search. Each instrument portion is independently configurable (eg. colour, chart type, etc). This feature IS available to everyone.
- Made more improvements to new Task Monitor page (only available internally at this time).

## 7 March 2012

### NEPTUNE:

#### Improvements

- Added a video copyright notice on the Digital Fishers page.
- Significantly improved performance when loading the Digital Fishers page (cards, My Status, Leader status)
- Added button on the Device Details / Additional Attributes page for the Water Sampler to allow water samples to be taken on request. Button is only visible if you have permission to operate it.

## 5 March 2012

### VENUS:

#### Improvements

- Added a data parser for WetLabs FLNTU 2472, NTU 2472, and FLNTU 2473.
- Added QAQC results for PIEZ-01 peizometer
- Added WAV format files for IC Listen Hydrophone 203
- Created new calibration formulas for SeaBird 6936 density and sigmat.

### NEPTUNE:

#### Improvements

- In Plotting Utility, added the ability to find data for a given location, regardless of whether different but similar instruments were deployed there at different times. This is called "Sort by Station". If you request a plot where this situation occurred and the time range is large enough to show data from different instruments, all corresponding instrument data will be displayed on the plot at the same time. The Legend and the Plot Settings will indicate all the applicable instruments. If you wish, you can independently change the plot settings for each instrument - for example you may wish to use a different plot colour for each one. For the time being, Sort by Location is still available but it will be placed by Sort by Station in a future release. This feature will also be added to Data Search in a future release.
- Added DT4 data product to Data Search for Biosonics devices. Also added RDI data products and data products to support Imagenex devices.
- Created a Davis Weather Station (device 13124) to prepare for eventually collecting data at Port Alberni.
- Time to produce the Nortek data product in Data Search has been reduced to about 1/3 of it's former time.
- Added documentation on the Wiki for new Biosonics data products.
- Renamed "published" to "public" when referring to saved data searches, to make it consistent across all pages.
- Significant improvements to Data Search have been added, but only on an orphaned page for now until all features are ready and tested. When the public Data Search page is ready, this will be noted in a future Release Notes section.
- Plotting Utility plots can now be saved using names that contain accents and other special characters.
- When selecting a date and time using Data Search and Plotting Utility, it is now more obvious that the time must be specified in UTC time.
- "837" type files are now available for Imagenex devices on Data Search

## 9 February 2012

### VENUS:

#### Improvements

- Removed "Data does not exist before..." message on VENUS Data Download page because there will be data before Feb 28, 2008

- Added QAQC pressure tests for VIP study areas 1, 8, and 12.
- Added instrument level QAQC tests for the new Seabird SBECTD16p6935

## NEPTUNE:

### Improvements

- Tar files now have an icon on Data Search page.
- Added log files for Imagenex sonar devices to Data Search.
- When annotations are created now in SeaTube, the DateTo will automatically be set equal to the DateFrom.
- Personal annotations can now be seen in SeaTube in a separate tab from Dive Log annotations.
- Screen shots can now be obtained from individual frames of a SeaTube video. Just click on the new icon beside the annotation icons at the top right of the video and 9 consecutive frames will appear. You can then right click on the one you want and save to a file.
- The Registration (creating a new account) and Profile pages have been changed to present similar choices as the VENUS web site.
- In the Registration and Profile pages you now are able to share specific attributes with others, while keeping the rest private.
- In the Registration and Profile pages, the occupation choice "Policy Maker" has been removed.
- In the Registration and Profile pages, the Discipline choice list has changed to make it similar to VENUS. Also, you are now able to select more than choice if you want to.
- Videos taken by Wally the Crawler at Barkley Canyon Hydrate are now available in SeaTube under "Locations". Video is only recorded on days when the lights are turned on.
- Contour plot data products have been added for the Nortek ADCPs that are on fixed position platforms.