

Space Details

Key:	FOCESW
Name:	900900 Ocean Chemistry of the Greenhouse Gases Software
Description:	
Creator (Creation Date):	kgomes (Oct 19, 2010)
Last Modifier (Mod. Date):	dcline (Nov 08, 2010)

Available Pages

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Home

This page last changed on Jan 25, 2011 by [dcline](#).

This is the home page for the 900900 Greenhouse Gases Software space.

For users

Releases available for download

- Windows exe [newPHProbeWorkbenchv3.0.1.zip](#)
- Mac app [newPHProbeWorkbenchv3.0.1.zip](#)
- [User Guide](#)

For users and developers

The original concept drawing for adding support for pH sensor data

- [newPHProbeWorkbench GUI Concepts](#) Mockup

Task list

Tasks: newPHProbeWorkbench	
• 	Add Vector Velocimeter driver (del)
• 	Add min/max scaling features (del)
• 	Stop button not working in SSDS query (del)

Add Task:

Ed - please feel free to add things to this list. I'm hoping that we can capture what needs to be done here for simplicity, instead of adding it to a bug tracker.

User Guide

This page last changed on Jan 25, 2011 by [dcline](#).

Introduction

The newPHProbeWorkbench is a modified version of the original pHProbeWorkbench created by Rich Schramm. It is written in REALBasic and can be easily compiled with the REAL Studio IDE.

This guide is not meant to be a comprehensive user guide, but should describe some of the new features.

In this modified version, some, but not all FOCE data, can be queried from SSDS, plotted, and saved. Functionally, it is very similar to the pHProbeWorkbench; some extra functions have been added per discussions with Ed Peltzer like exporting to a file and multiple tabs.

Data Averaging and Corrections

pH Sensor data is averaged around a 1 minute window of CTD readings. ADCP data is left as-is. Corrections are applied to the pH sensor data by applying a 1D spline-fit over pH corrections stored in SSDS as metadata.

Adding Tabs and "Show All" Table Data

The user can add plots by selecting the "+" tab. Tabs can be renamed or deleted by selecting the appropriate menu option with a right-click. Not all data is plotted in new pHProbeWorkbench, but it can be displayed in the table view by selecting the "Show all" box.



(click to enlarge)

SSDS Query

[SSDS Query](#)

File Export

[File Export](#)

File Export

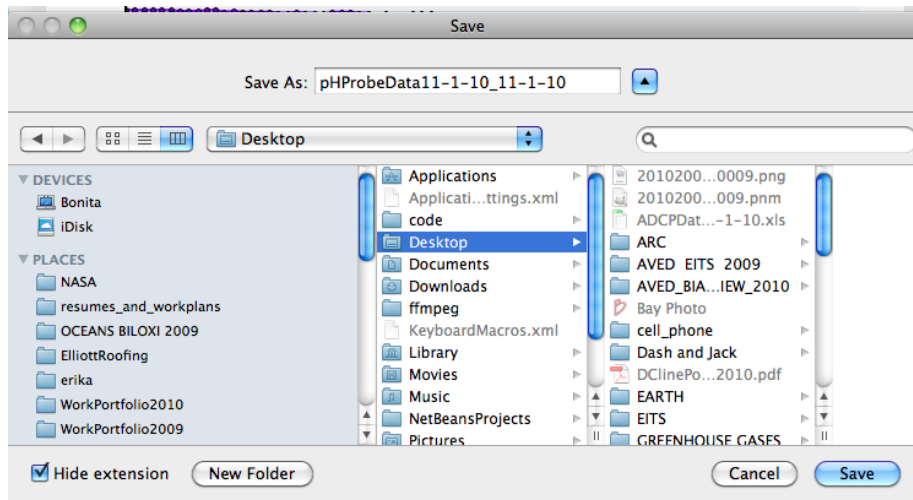
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Data can be exported to an Excel file for further analysis.

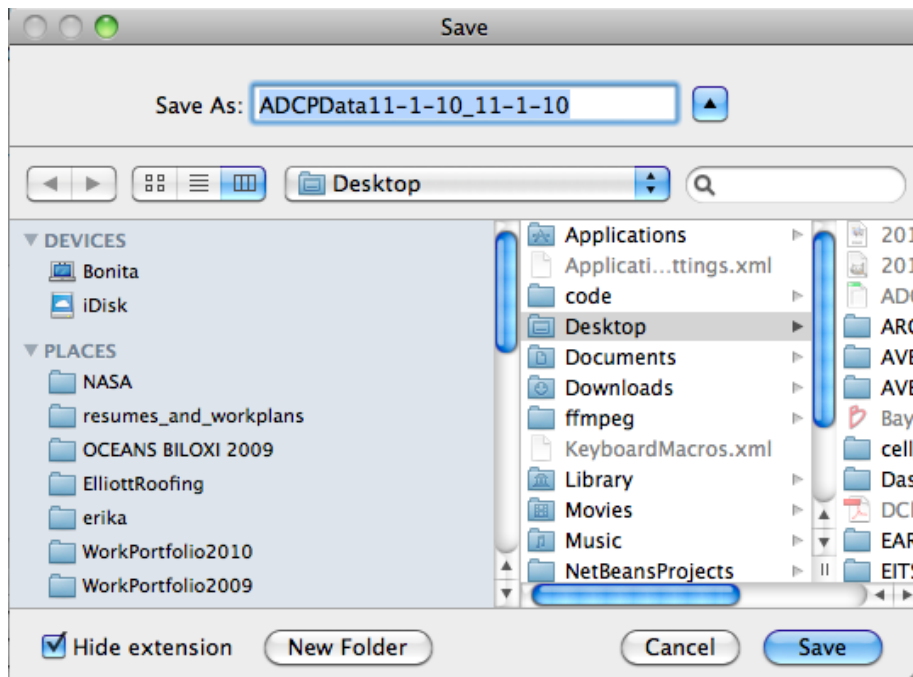
Useful Information

The files are saved with the .xls file extension, although they are actually in tab-delimited format which will automatically import correctly into Excel. The data saved in the .xls file is whatever is displayed on the visible plot.

1. Select the **File** menu, then **Save**
2. pH sensor data and ADCP data are saved in separate files because they have different sampling rates. You will be prompted for a file name to save each data set to. First you will be prompted for the pH file name



3. then the ADCP data



SSDS Query



Warning

SSDS queries can take a very long time to load, depending on your internet connection speed and time span you are querying. This requires an internet connection to the internal MBARI server new-ssds.shore.mbari.org.

1. To query SSDS for a particular date and time range, select the **SSDS** menu, then the **Query** submenu
2. This will open the following dialog. Select Start and End Dates in the calendar, or enter them manually in the text boxes, then select **OK**

Select date range for SSDS query

OCTOBER 2010 Year: 2010 Month: 10

Start Date: 2010-10-12 00:00:00 GMT

End Date: 2010-10-16 00:16:40 GMT

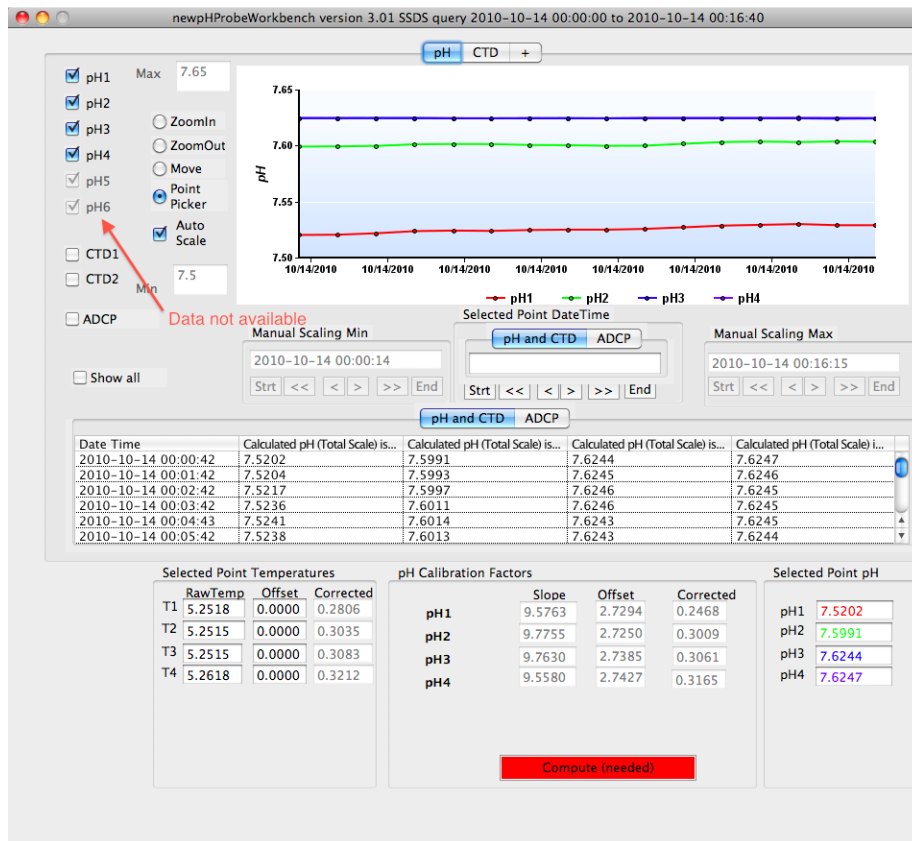
Cancel OK

3. Data will then be requested from SSDS. If data in the requested range exists, it will be displayed. While SSDS is queried, the status will display on the bottom of the window similar to the following:

Getting 100 records for MBARI HRpH sensor ISI-ID 1724

Stop

4. Data that is not available is disabled.



newPHProbeWorkbench GUI Concepts

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[edit this mockup](#)

Mockup image file mockup_GUI main.png (version 3) not found. Did someone delete it?