

MARS Gliders Control

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Off Shore Operated Vehicles



The Problem



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Multiple Control Interfaces

The image displays a collage of software interfaces used for glider control and data analysis:

- Data Visualizer - glider 7.14 PureJavaComm Serial:** A window showing sensor comparison plots for glider sensor plots.
- Figure 1: Dissipat:** A MATLAB plot showing sensor data over time (0 to 360 minutes).
- Figure 2: Pitch:** A MATLAB plot showing pitch control data over time (0 to 360 minutes).
- Remote Control Workstation:** A control interface with various gauges (Heading, Altitude, Boat Speed, S.O.G, Tide Speed, Roll S.D) and control buttons (HOLD OK, GPS OK, STOP, etc.).
- h-scientific Top Level:** A window showing a map of the study area with a red track and various data points.
- Seaglider Dive Data Analyzer:** A software interface for analyzing dive data, including plot selection, sensor data, and analysis parameters.
- Microsoft Word 2010:** A window showing a table of data, likely related to the dive analysis.
- File Explorer:** A window showing the file system structure, including folders like 'massmo_prof_new_Data', 'MATLAB', 'My Music', 'My Pictures', 'My Safes', 'My Shapes', 'My Videos', and 'ODV'.
- WAZNEA Communications:** A window showing a list of communication logs with columns for Time, Page, Size, and Status.
- SFTP-3:** A window showing the SFTP connection status and the current time (4:23:59).

The Solution?



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The Website

Missions Pilot Log Inventory Calendar Tools all

Day 72 | Fri March 13th 2015
Map: ON Refresh: ON

Mission Status: All | Glider List: N/A | Date Period: Start Date - End Date | Full Search: Search ID, Name, Proj | Per Page: 20 | Search | Clear

MISSIONS MANAGER - ALL MISSIONS					
Name	Project	Date Start	End Date	Comments	Mission status
DY021	SSB-2015-1	11 days ago 2015-03-02	-	-	Inactive
DY018	SSB-2014-2	124 days ago 2014-11-09	Ongoing	-Shelf Seas Biogeochemistry long term gliders	Active
MASSMO	MASSMO	131 days ago 2014-11-02	123 days ago 2014-11-10	Phase 2: Field trials of USV vehicles for the study of tagged fish.	Inactive
Massmo	Massmo	164 days ago 2014-09-30	132 days ago 2014-11-01	Phase 1: Field trials of AUV and USV vehicles, Cross-shelf transect from the Isl	Inactive

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The Website

Missions Pilot Log Inventory Calendar Tools all

Day 72 | Fri March 13th 2015
Map: ON Refresh: ON

Mission DY018
-Shelf Seas Biogeochemistry long term gliders
Thursday, March 12, 2015 @ 14:32 UTC - Friday, March 13, 2015 @ 14:32 UTC

Map ToolBox

- WIND
- PRESSURE
- WAVES
- BATHYMETRY
- AIS DENSITY
- MISSION PLAN
- TIDES
- BOATS (Waveglider AIS)
- MAP GRID

Date Start:
Date End: **NOW**

Keep map position on reload

Lat: +/-dd.mmm Lng: +/-dd.mmm

Right-click on the map to turn the measuring tool on or off

Name & ID	Last Dive	Last Lat	Last Lng	Last Update	Last Comm	Status
= SLOCUMS =						
Ammonite unit_304	SSB_MI unit_304-2014-321-0-32	48 21.97 48.36620	-9 36.99 -9.61650	112 day(s) ago 2014-11-21 02:25:26	Surface Log	OK
Bellamite unit_330	- -	46 49.86 46.83100	-7 17.56 -7.29262	19 day(s) ago 2015-02-22 08:22:04	Surface Log	OK
Cabot unit_345	- -	49 23.18 49.38630	-8 35.08 -8.58462	01:16 hours ago 2015-03-13 14:32:27	Surface Log	OK
OMG-3 unit_424	- -	50 53.56 50.89260	-1 23.71 -1.39512	02 day(s) ago 2015-03-11 14:38:36	Surface Log	OK
= SEAGLIDERS =						
Denebola sg534	160 (5)	49 25.15 49.41920	-8 25.05 -8.41747	107 day(s) ago 2014-11-26 09:30:00	Comm :: pLog	n/a

The Website

Missions Pilot Log Inventory Calendar Tools all

Day 72 | Fri March 13th 2015
Map: ON Refresh: ON

Mission DY018 :: Glider Cabot (unit_345) :: SLOCUMS

Thursday, March 12, 2015 @ 14:32 UTC - Friday, March 13, 2015 @ 14:32 UTC

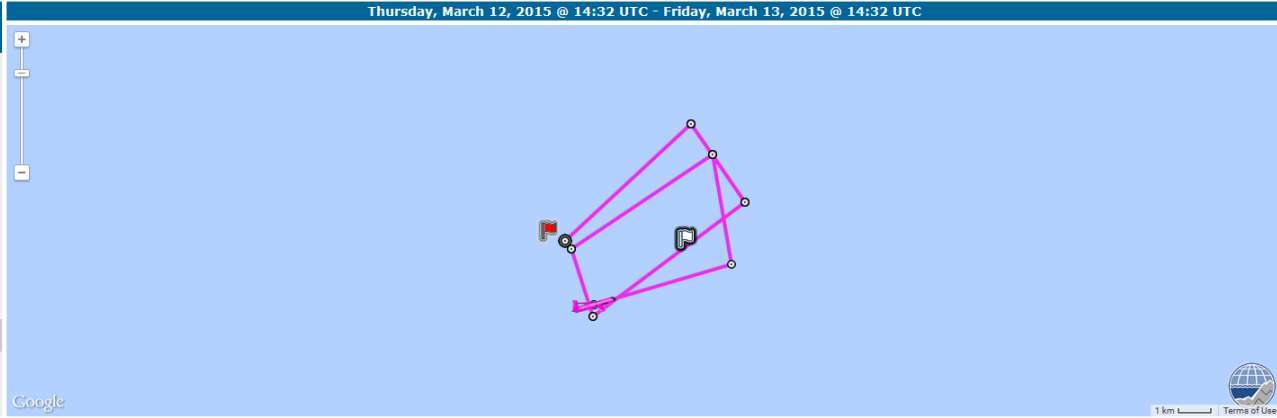
Map ToolBox

- WIND
- PRESSURE
- WAVES
- BATHYMETRY
- AIS DENSITY
- MISSION PLAN
- TIDES
- BOATS (W aveglider AIS)
- MAP GRID


Date Start:
Date End: **NOW**

Keep map position on reload


Lat: -dd.mmm Lng: -dd.mmm



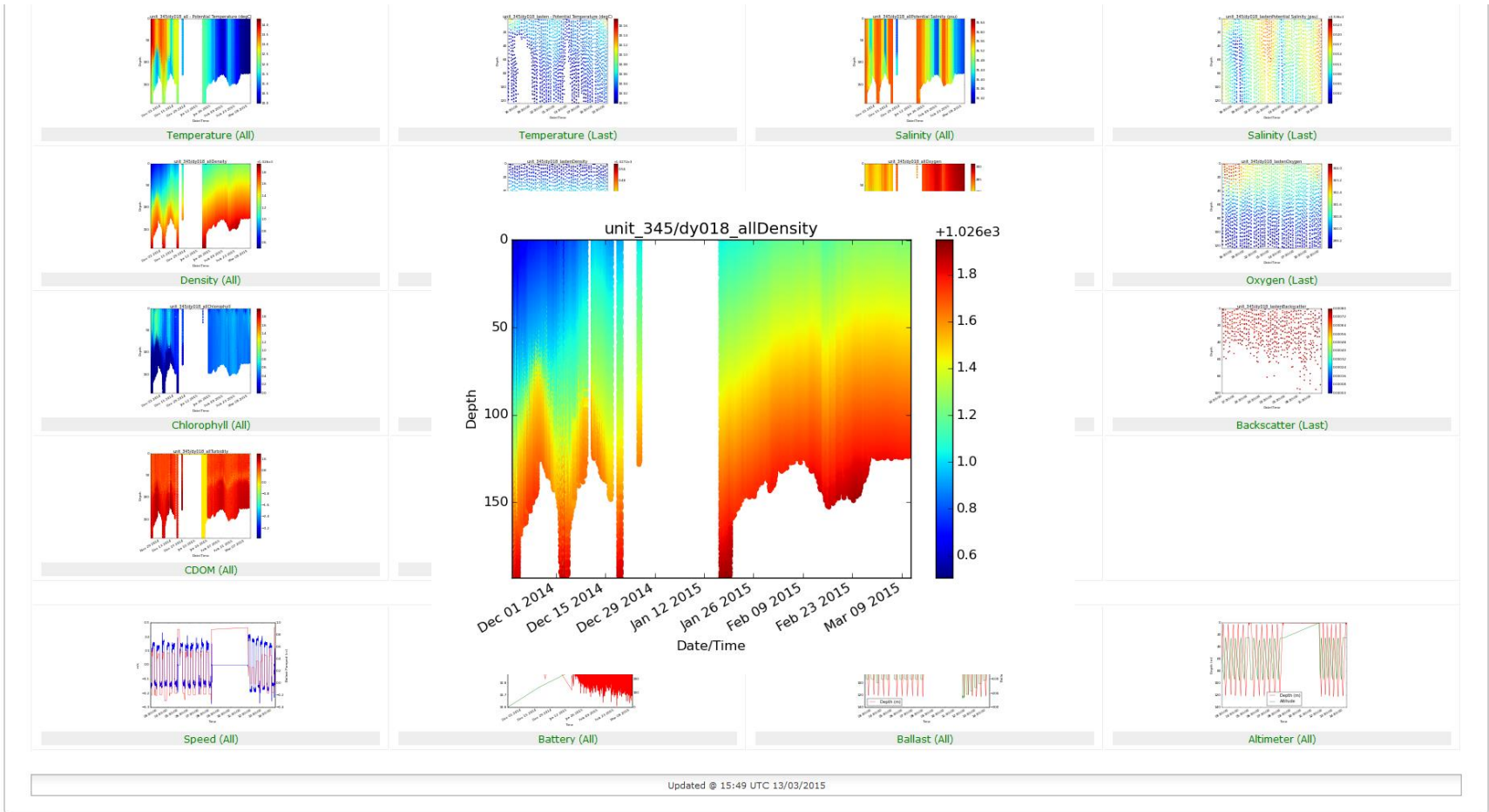
Right-click on the map to turn the measuring tool on or off

Name & ID	Last Dive	Last Lat	Last Lng	Last Update	Last Comm	Status
 Cabot unit_345	-	49 23.18 49.38630	-8 35.08 -8.58462	01:17 hours ago 2015-03-13 14:32:27	Surface Log	OK

Dive plots



The Website




The Website

User List: Glider List: Date Period: Start Date - End Date Full Search: Per Page:

« previous 1 2 3 4 5 6 7 8 9 ... 34 35 next »

PILOT LOG - ALL RECORDS					
Glider	User	File Changes	Changes	Comments	Entered
Cabot	sjw	-sample10.ma	created new sample file	-	07:27 hours ago 2015-03-13 08:23:02
Cabot	sjw	-sample10.ma	b_arg: state_to_sample(enum) 1 #diving b_arg: intersample_time(s) 4 # if < 0 then off, if = 0 then # as fast as possible, and if # > 0 then that many seconds # between measurements	-sampling on the down cast every four seconds, will check log later to see if tbd list still has errors, will email Mathew	22:45 hours ago 2015-03-12 17:05:47
Fomalhaut	dwh	-	Glider reappeared on ARGOS. Records show 1st transmission 20th Jan but no positions until 5th March	-Position 48 55.66N 6 38.83W 9th March.	02 days ago 2015-03-11 12:15:35
Cabot	sjw	-yo15.ma and sample10.ma	yo15.ma: b_arg: d_target_depth(m) 120 sensor: c_alt_time -1 sample10.ma: b_arg: state_to_sample(enum) 0 # 0 none	- turned altimeter off as well as science to save battery for cross calibration on recovery, i will email Matt P	02 days ago 2015-03-11 12:06:52
Fomalhaut	sjw	-pagers	added nocs_mars_glanders@noc.ac.uk for all messages....	- going to keep an eye on the argos page for new positions	02 days ago 2015-03-11 11:27:29
Ammonite	dwh	-	none	Still no Argos transmissions	10 days ago 2015-03-03 10:56:53
Cabot	scaw	goto_10.ma	-836.250 4924.132 -839.413 4923.995 -833.099 4924.015 b(arg): num_waypoints, 3	calibration transect across mooring site	13 days ago 2015-02-28 07:50:38
Cabot	scaw	yo15.ma surfac01.ma	12 half cycles 19800sec overtime	back to normal operation	15 days ago 2015-02-25 15:53:18
Cabot	all	yo15.ma	b_arg: num_half_cycles_to_do(nodim) 4 b_arg: d_target_depth(m) 190	Going back to "full depth" and 2 yos. The glider seems to be recording depth properly	16 days ago 2015-02-25 12:52:43
Cabot	all	surfac01.ma	b_arg: when_secs(sec) 3600 overtime 600 secs	Increasing no-comms to an hour	16 days ago 2015-02-25 12:52:13

The Public Website

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Marine Autonomous and Robotic Systems

HOME **DASHBOARD** ASK A PILOT CONTACT US

lxv LOGIN

Missions Dashboard

Friday, March 28, 2014 @ 14:06 UTC - Monday, October 06, 2014 @ 19:48 UTC Map: ON Refresh: ON

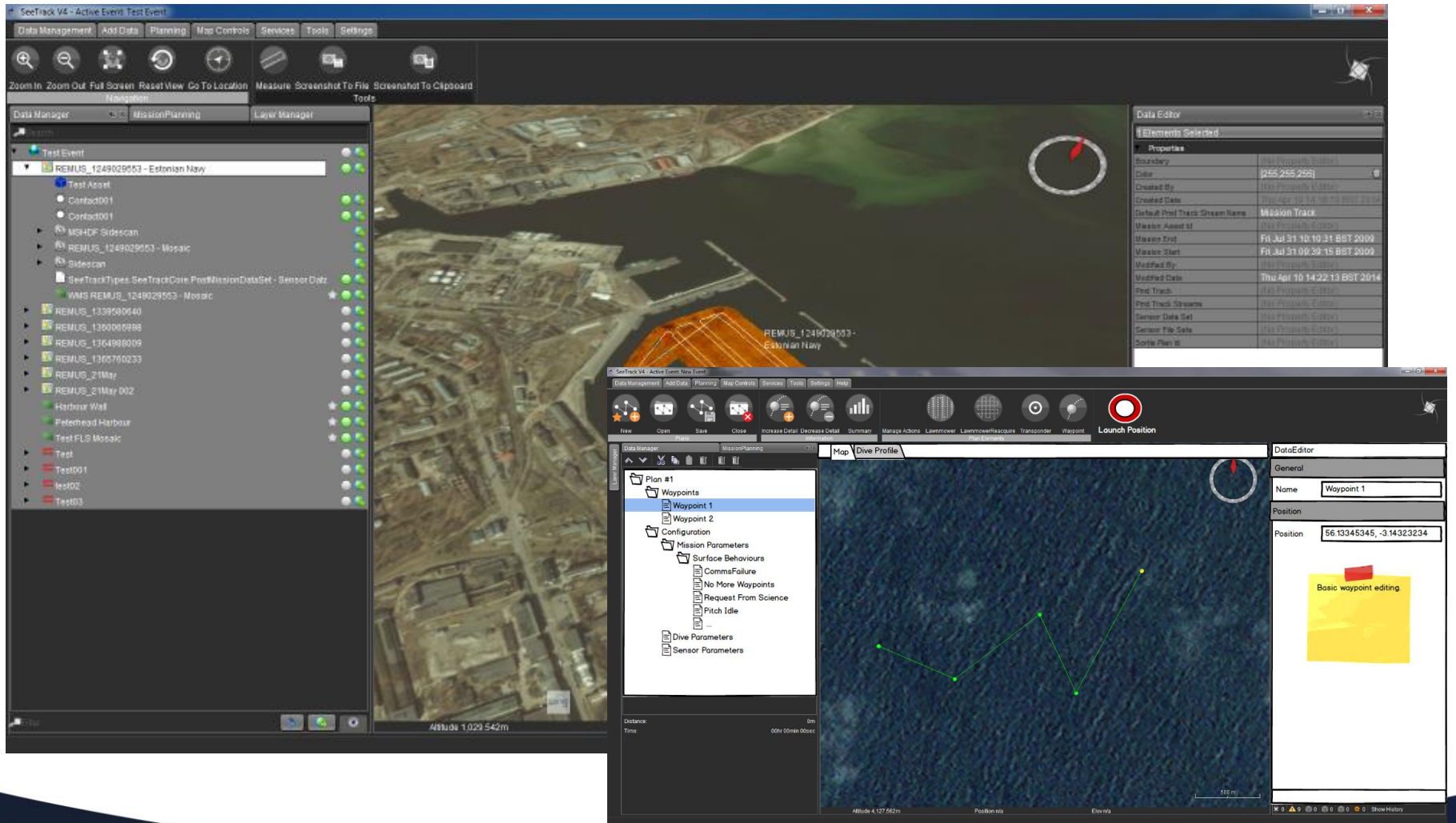


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Mission Name	Start Date	Number of Vehicles	Last Activity	Status
Massmo	2014-09-30	5	157 day(s) ago Churchill @ 2014-10-06 19:48:35 UTC	Active
Test	2014-11-05	12	161 day(s) ago Waimea @ 2014-10-03 16:34:57 UTC	Active

Updated @ 17:16 UTC 13/03/2015

Seetrack – A Common Piloting Tool



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