



GLIDER MISSION BLOG

Reference: 20121023-GMB-538



Platform: GLIDER SEAGLIDER

Platform ID: sdeep02 (Unit538)

Mission: JERICO TNA SARDINIA OCT12

Dates: October, the 23st, 2012 **to** October, the 30st, 2012

Issue: Glider Mission Blog

Description: This document contains deployment, recovery and relevant information

on the events that took place while the glider was in the mission

JERICO TNA SARDINIA OCT12

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Deployment

The glider was deployed with no issues from IMEDEA's Valiant vessel. The mission started on 23/10/2012 at 11:14:23 UTC at N39 49.669 E4 27.876.

A CTD cast was performed with SBE-25 at the launch point.

Recovery

The glider was emergency recovered using SASEMAR's vessel on 30/10/2012 at 10:16:58 UTC at N39 50.787 E5 14.415.

Daily Control

23/10/2012: Launch and trimming. 350 m depth achieved.

<u>24/10/2012</u>: Glider increases depth following bathymetry. 1000 m depth achieved on dive 13. 2 VBD pump retries are registered on this dive and 4 on the following one (dive 14).

<u>25/10/2012:</u> 3, 5 and 3 VBD retries are registered on dives 16, 17 and 18, all of them to 1000 m depth. iRobot is contacted and informed about the issue.

<u>26/10/2012</u>: Dives 19 and 20 give 17 and 16 VBD pump retries respectively. Depth is lowered on dive 21 to 750 m to see if retries halt. iRobot is informed about the increase of retries and shown a plot where it is clear that the pump is taking longer to pump the same amount of oil. iRobot suggests issuing 'capvec HVBD DEBUG BOTH' to gather more information about the VBD.

<u>27/10/2012</u>: Dive 21, at 750 m depth, reports 15 VBD retries and the first Pitch motor retry. Dive 22, also to 750 m, produces a VOLTAGE_CUTOFF_24V abort as the 19,0V threshold is passed (18,9 V). It is decided to dive back to WP1. To do that, on dive 23, depth is lowered to 500 m and the voltage threshold is lowered to 18 V to avoid aborts. Glider finishes dive 23 with 9 VBD retries and 18,9 V. Another dive is launched (24), now at 350 m depth. Before the surfacing, iRobot emails recommending not diving anymore. The glider is set drifting and calling every 4 hours.

30/10/2012: The glider was recovered.