



Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

SOCIB_CANALES_OCT2012 (GR-MR-0012)



Balearic Islands
Coastal Observing
and Forecasting
System



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Govern de les Illes Balears



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| Mission Name | | SOCIB_CANALES_OCT2012 (GR-MR-0012) | |
| Platform Model | | Slocum 1000 G1 | |
| Platform ID / Name / WMO Code | | U132 / IDEEP02 / 68966 | |
| Related Platforms / Missions | | | |
| Start Date | | 2012-10-24 | |
| End Date | | 2012-11-03 | |
| Total Days | 11 | Total distance (Km / Nm) | 177,5 / 95,9 |
| Survey Area (NODC or SDN region) | | Mallorca and Eivissa Channels (Western Mediterranean sea) | |
| Objective(s) | | <p>Establishing the variability of the N/S exchange of water masses that occur through the Ibiza Channel.</p> <p>Sampling a standard transect across the Ibiza Channel several times using physical and biogeochemical sensors.</p> <p>No greater than 1 month gap in between consecutive iterations.</p> <p>The Mallorca Channel is also sampled when operationally practical.</p> | |
| Scientific Sensors (name & model / serial_number / calibration date) | | <p>CTD- SBE / sn 0129 / 29-Sep-2008</p> <p>FLNTUSLK -WetLabs- / sn0988 / 13-Jun-2008</p> <p>OPTODE_5013 -Aandera- / sn 0994 / 23-Oct-2009</p> | |
| Number of Profiles | | 397 (CTD), 304 (FLNTU), 304 (OXY) | |
| Significant Events | | <p>ABORTED MISSION</p> <p>Missed calls during initial 72 hours of mission</p> <p>Strong currents pushing South while navigating around Eivissa and during the first half of the first Eivissa to Valencia transect</p> <p>Critical WATER LEAK in the middle of the Eivissa-Valencia channel</p> <p>Glider left drifting at the surface while waiting for emergency recovery</p> <p>Harsh recovery due to very severe sea-state and weather</p> | |
| Mission Summary | | <p>This mission stands for the 5th iteration of the Canales Campaign 2012, carried out by IMEDEA's glider IDEEP02 (Unit 132). Unit 184 went out of service in need for repair.</p> <p>Launching was performed by a 2-member field-team on board SOCIB-I professional RIB at location N39.5044° E02.1878°</p> <p>During the time the glider remained deployed 1 Mallorca-Eivissa and 1/2 Eivissa-Valencia channels were surveyed.</p> <p>Overall performance of mechanical and sampling devices was reasonably good. Comms were stable but during the first days of mission (time gaps in between calls of 12hrs).</p> <p>IDEEP02 called in on Friday, Nov-2nd at 01:02am,utc, reporting having aborted the mission due to WATER LEAK detected. It was left drifting at the surface and an emergency recovery was immediately prepared. 2 field-techs flew to Eivissa and hired a charter boat to perform the extraction operation. Weather conditions were very adverse during that weekend.</p> <p>Having drifter for 30 hrs (and covered a non-linear 10km track), IDEEP02 was recovered on Saturday Nov-3rd near N38.8905° E00.5521° waypoint. This operation was very difficult due to local waves and wind.</p> <p>Once received at IMEDEA, IDEEP02 was analyzed and the leak entrance detected. A defective o-ring was considered the cause and the glider prepared for a new attempt. Gathered data was backed up and uploaded to SOCIB's FTP.</p> | |

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| Principal Investigator (e-mail or contact phone/address) | Prof. Joaquim Tintoré jtintore@socib.es (+34 971439821) |
| Institute | SOCIB in collaboration with IMEDEA |
| Project Affiliation (web-site) | http://www.socib.eu |
| Partnership / Participation | SOCIB (internal long-term project of sustained monitoring line) IMEDEA (in-kind contribution of material and infrastructures) |
| Glider Software Version | v7.7 GAMMA_RAD5 |
| Data Retrieval (real-time [RT] / delayed-mode [DM]) | Real-time sub-set via satellite link every 6 hours every day Delayed-mode direct download of full gathered data sets |
| Compass Calibration (specify procedure) | (n/a) |
| Battery Type | Manufacturer's original Alkaline batt.pack (143Ah-nominal cap.) |
| Battery Consumption (Ah) | 61,074Ah (reading from 2,566Ah to 63,640Ah) |
| Data Available From | http://thredds.socib.es/thredds/dodsC/auv/glider/ideep02-ime_sldeep002/L1/2012/dep0004_ideep02_ime-sldeep002_L1_2012-10-24_data_dt.nc |
| Full Mission Report From | glidertech@socib.es |
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Figure 1

(Map providing general overview of Survey Area)



Mission Summary

(Map providing detailed overview of Survey Area and traced Flight Path with surface points if possible)

