Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

SOCIB_ENG-TRIAL_MAR2012 (GR-MR-0007)

SOCIB
Balearic Islands
Coastal Observing
and Forecasting
System

GOBIERNO DE ESPAÑA
MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

Govern de les Illes Balears

IMEDEA

CSIC
UIB Universitat de les Illes Balears

Mission Name	SOCIB_ENG-TRIAL_MAR2012 (GR-MR-0007)
Platform Model	Slocum 1000m G1
Platform ID / Name / WMO Code	U132 / IDEEP02 / 68966
Related Platforms / Missions	(none)
Start Date	23/Mar/2012
End Date	04/Apr/2012

Total Days	12	Total distance (Km / Nm)	162 / 88

Survey Area (NODC or SDN region)	Western Med. (North coast of Mallorca Island, SPAIN)
Objective(s)	Comprehensive engineering trial to test: • Mechanical components • Scientific sensors • Hull resistance to pressure • Navigation and Autonomous Mission Execution

Scientific Sensors (name & model / serial_number / calibration date)	CTD-SBE / sn 0129 / 29-Sep-2008 FLNTUSLK -WetLabs- / sn0988 / 13-Jun-2008 OPTODE_5013 -Aandera- / sn 0994 / 23-Oct-2009
Number of Profiles	144 (CTD) , 137 (FLNTU) , 137 (OXY)
Significant Events	Trial mission executed in front of 'Port de Sòller' coast (Mallorca). Triangular route to limit distance from home-port. No mission ABORTS, overall execution was very successful
Mission Summary	This mission was the first one in 2012 for IMEDEA's glider IDEEP02 (Unit 132). Previous U132 mission was also a test (Oct-2011) that concluded in ABORT. Launching was performed by a 2-member field-team on board IMEDEA's 7m RIB at location N39.9413° E2.5559° During the time the glider remained deployed IDEEP02 flew inside a 5Km-side triangular route track. Overall performance of mechanical and sampling devices was reasonably good. Only some devices exhibited a quite high number of oddities, which did not implied adverse situations. There were no water-leak issues and communication devices worked well and as expected. Recovery was performed by the same team and vessel in the test area in front of 'Port de Sòller' (N39.9106° E2.5437°) Upon completion, IDEEP02 was received at IMEDEA's glider-lab, put on the bench, revised and properly stored. The gathered dataset was fully backed-up and uploaded to SOCIB's FTP for subsequent processing.

Principal Investigator (e-mail or contact phone/address)	*(No PI. This was a technical mission serving as engineering trial)*
Institute	*IMEDEA in collaboration of SOCIB*
Project Affiliation (web-site)	*http://www.socib.eu*
Partnership / Participation	*SOCIB (sustained Glider Fleet Maintenance & Management internal program)* *IMEDEA (in-kind contribution of material and infrastructures)*
Glider Software Version	*v7.3 Ice House*
Data Retrieval (real-time [RT] / delayed-mode [DM])	*Under-test near-real-time sub-set sending via Iridium link.*
Compass Calibration (specify procedure)	*(n/a)*
Battery Type	*Manufacturer's original Alkaline batt.pack (143Ah-nominal cap.)*
Battery Consumption (Ah)	*59,917 Ah (from 4,17Ah to 64,08Ah)*
Data Available From	*http://thredds.socib.es/thredds/dodsC/auv/glider/ideep02-ime_sldeep002/L1/2012/dep0002_ideep02_ime-sldeep002_L1_2012-03-23_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)	