



Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

SOCIB_CANALES_MAY2012 (GR-MR-0008)



Balearic Islands
Coastal Observing
and Forecasting
System



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Govern de les Illes Balears



Mission Name		SOCIB_CANALES_MAY2012 (GR-MR-0008)	
Platform Model		Slocum 1000 G1	
Platform ID / Name / WMO Code		U132 / IDEEP02 / (n/a)	
Related Platforms / Missions			
Start Date		2012-05-09	
End Date		2012-06-01	
Total Days	24	Total distance (Km / Nm)	564,9 / 305,4
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		819 (CTD), 346 (FLNTU), 346 (OXY)	
Significant Events		<p>2 on-mission aborts: wpt-too-far & undervolts</p> <p>Mission was re-run 5 times during the water survey</p> <p>Multiple oddities from devices: IRIDIUM, OCEAN_PRESSURE & DIGIFIN</p> <p>Surface drifting prior to recovery</p> <p>Emergency recovery due to low battery level</p>	
Mission Summary		<p>This mission stands for the 2nd iteration of the Canales Campaign 2012 carried out by IMEDEA's glider IDEEP02 (Unit 132).</p> <p>Launching was performed by a 2-member field-team on board SOCIB-I professional RIB at location N39.5172° E02.1785°</p> <p>During the time the glider remained deployed 2 Mallorca-Eivissa and 4 Eivissa-Valencia channels were surveyed.</p> <p>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.</p> <p>Only the battery level was a problem, at the end of the mission, while the glider was 1 day away from the end of the programmed track, when dropping too low and thus forcing an emergency recovery after leaving the glider in low-power drifting mode.</p> <p>Recovery was performed by the same team and vessel in the middle of the Mallorca-Eivissa channel (N39.3883° E01.9395°)</p> <p>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 and diffusion via SOCIB's public repository.</p>	

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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	v7.3 Ice House
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)	136.3Ah
Data Available From	http://thredds.socib.es/thredds/dodsC/auv/glider/ideep02-ime_sldeep002/L2/2012/dep0003_ideep02_ime-sldeep002_L2_2012-05-09_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)

