



Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

SOCIB_CANALES_AUG2012 (GR-MR-0011b)



Balearic Islands
Coastal Observing
and Forecasting
System



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Govern de les Illes Balears



Mission Name		SOCIB_CANALES_AUG2012 (GR-MR-0011b)	
Platform Model		Slocum 1000 G1	
Platform ID / Name / WMO Code		U184 / IDEEP00 / 68452	
Related Platforms / Missions			
Start Date		2012-08-22	
End Date		2012-09-16	
Total Days	27	Total distance (Km / Nm)	589,5 / 318,7
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 0195 / (n/a)</p> <p>FLNTUSLK -WetLabs- / sn2128 / 01-Feb-2011</p> <p>OPTODE -Aandera- / sn 0841 / 14-Sep-2010</p>	
Number of Profiles		881 (CTD), 352 (FLNTU), 352 (OXY)	
Significant Events		<p>Launching: overtime mission executed twice</p> <p>3 on-mission aborts: same_depth_for(x2) & ms_undervolts</p> <p>Premature recovery due to low battery level at the end of mission</p> <p>Currents pushing North in middle Eivissa-Valencia channel</p> <p>Multiple oddities from devices: IRIDIUM, OCEAN_PRESSURE, PITCH_MOTOR & DIGIFIN</p>	
Mission Summary		<p>This mission stands for the 4th iteration of the Canales Campaign 2012, carried out by IMEDEA's glider IDEEP00 (Unit 184).</p> <p>Launching was performed by a 2-member field-team on board SOCIB-I professional RIB at location N39.5043° E02.1894°</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>However, 15Km. before the end of the mission (second Eivissa-Mallorca channel) battery voltage dropped below the minimum causing the glider to abort the mission. After that, IDEEP00 was put back into mission reducing target diving depth to 350m to save energy and avoid aborts while waiting for the precipitate recovery.</p> <p>Recovery was performed by the same team and vessel in the middle of the Mallorca-Eivissa channel (N39.4757° E02.109°)</p> <p>Upon completion, IDEEP00 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	v7.7 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)	128,298Ah (reading from 0,033Ah to 128,331Ah)
Data Available From	http://thredds.socib.es/thredds/dodsC/auv/glider/ideep00-ime_sldeep000/L1/2012/dep0009_ideep00_ime-sldeep000_L1_2012-08-22_data_dt.nc
Full Mission Report From	glidertech@socib.es
Technical Contact	glidertech@socib.es

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)

