



Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

SOCIB_CANALES_JAN2013 (GR-MR-0015)



Balearic Islands
Coastal Observing
and Forecasting
System



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Govern de les Illes Balears



Mission Name		SOCIB_CANALES_JAN2013 (GR-MR-0015)	
Platform Model		Slocum 1000 G2	
Platform ID / Name / WMO Code		U243 / SDEEP00 / 68457	
Related Platforms / Missions			
Start Date		2013-01-30	
End Date		2013-02-21	
Total Days	27	Total distance (Km / Nm)	556,5 / 300,8
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>GPCTD -SBE- / sn 0107 / 04-Jan-2012</p> <p>FLNTU -WetLabs- / sn2279 / 15-Jul-2011</p> <p>OPTODE -Aandera- / sn 1409 / 15-Feb-2011</p>	
Number of Profiles		744 (CTD), 354 (FLNTU), 353 (OXY)	
Significant Events		<p>Second operational mission performed by SDEEP00 (Slocum G2)</p> <p>Glider navigated not as adjusted to the commanded route as desired, although it was good enough to meet the mission's objectives.</p> <p>Recovery was premature (in the middle of the Eivissa-Mallorca channel) due to low battery (UNDERVOLTS ABORT)</p>	
Mission Summary		<p>This mission stands for the 1st iteration of the Canales Campaign 2013, carried out by SOCIB's glider SDEEP00 (Unit 243).</p> <p>Launching was performed by a 2-member field-team on board SOCIB-I professional RIB at location N39.5089 ° E02.1863°.</p> <p>3 Iridium calls were missing during the first 72hrs. of mission.</p> <p>During the time the glider remained deployed 1 Mallorca-Eivissa and 4 Eivissa-Valencia channels were surveyed. The second Mallorca-Eivissa was not completed successfully.</p> <p>Overall performance of mechanical and sampling devices was excellent. Only quite a few oddities coming from DIGIFIN and IRIDIUM devices. During one of the segments, the Oxygen sensor raised an error that prevented completing the current profile.</p> <p>While returning back to port, in the middle of the Eivissa-Mallorca transect, SDEEP00 called in reporting low battery.</p> <p>After that, the glider was configured to perform shallow dives until next morning when an emergency recovery took place near N39.3214° E01.9043° waypoint.</p> <p>Upon completion, SDEEP00 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)	112,825Ah (reading from 0,735Ah to 113,56Ah)
Data Available From	http://thredds.socib.es/thredds/dodsC/auv/glider/sdeep00-scb_sldeep000/L1/2013/dep0003_sdeep00_scb-sldeep000_L1_2013-01-30_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)

