



# Glider Mission Summary Report

2012 - 2015  
SOCIB (CSIC)

*SOCIB\_CANALES\_MAR2013 (GR-MR-0016)*



Balearic Islands  
Coastal Observing  
and Forecasting  
System



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD



Govern de les Illes Balears

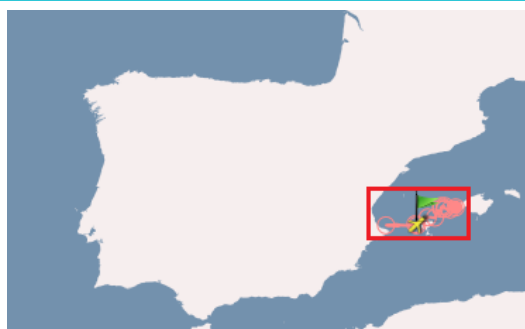


<b>Mission Name</b>		SOCIB_CANALES_MAR2013 (GR-MR-0016)	
<b>Platform Model</b>		Slocum 1000 G2	
<b>Platform ID / Name / WMO Code</b>		U244 / SDEEP01 / 68967	
<b>Related Platforms / Missions</b>			
<b>Start Date</b>		2013-03-22	
<b>End Date</b>		2013-04-15	
<b>Total Days</b>	24	<b>Total distance (Km / Nm)</b>	544 / 294
<b>Survey Area</b> (NODC or SDN region)		Mallorca and Eivissa Channels (Western Mediterranean sea)	
<b>Objective(s)</b>		<p>Engineering trials in the first days of deployment for comprehensive test during 1<sup>st</sup> ever deployment of U244.</p> <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>	
<b>Scientific Sensors</b> (name & model / serial_number / calibration date)		<p>GPCTD -SBE- / sn 0064 / 19-May-2011</p> <p>FLNTU -WetLabs- / sn2280 / 15-Jul-2011</p> <p>OPTODE -Aandera- / sn 1410 / 11-Feb-2011</p>	
<b>Number of Profiles</b>		846 (CTD), 383 (FLNTU), 384 (OXY)	
<b>Significant Events</b>		<p>First deployment &amp; mission performed by SDEEP01 (Slocum G2)</p> <p>Engineering trials during the first 5 days of deployment (butterfly track in 1000m-deep area at NW of Dragonera Island.</p> <p>Unusual recovery in location at North of St.Antoni's port (Eivissa island) on board SOCIB-I RIB taking advantage of the presence of this field team due to independent maintenance works in the area</p>	
<b>Mission Summary</b>		<p>This mission stands for the 2nd iteration of the Canales Campaign 2013, carried out by SOCIB's glider SDEEP01 (Unit 244).</p> <p>Launching was performed by a 2-member field-team on board SOCIB-I professional RIB at location N39.5439° E2.3012°.</p> <p>In order to test the overall performance, this Glider was commanded to follow a butterfly pattern diving at max. depth (975m) in a region of easy access in case of emergency. The results of this test were excellent and therefore the vehicle was put in execution mode of a Canales scientific mission.</p> <p>During the time the glider remained deployed 1 Mallorca-Eivissa and 4 Eivissa-Valencia channels were surveyed.</p> <p>Overall performance of mechanical and sampling devices was excellent. Only quite a few oddities coming from DIGIFIN and IRIDIUM devices. Navigation and traced route were successful and, in general terms, the Glider behaved as commanded and expected.</p> <p>The initial plan of recovery was altered availing the coincidence of the Glider and SOCIB-I in the same area at North of St.Antoni's town (Eivissa). SOCIB-I, in coordination with Glider pilots, waited for SDEEP01 to surface and executed the extraction operation.</p> <p>Upon completion, SDEEP01 was received at IMEDEA's glider-lab, put on the bench, revised and properly stored. Gathered dataset was fully backed-up and uploaded to SOCIB's FTP for subsequent processing and diffusion via SOCIB's public repository.</p>	

<b>Principal Investigator</b> (e-mail or contact phone/address)	Prof. Joaquim Tintoré <a href="mailto:jtintore@socib.es">jtintore@socib.es</a> (+34 971439821)
<b>Institute</b>	SOCIB in collaboration with IMEDEA
<b>Project Affiliation</b> (web-site)	<a href="http://www.socib.eu">http://www.socib.eu</a>
<b>Partnership / Participation</b>	SOCIB (internal long-term project of sustained monitoring line) IMEDEA (in-kind contribution of material and infrastructures)
<b>Glider Software Version</b>	v7.7 GAMMA_RAD5
<b>Data Retrieval</b> (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
<b>Compass Calibration</b> (specify procedure)	Not considered necessary as it was the first ever mission of this Glider
<b>Battery Type</b>	Manufacturer's original Alkaline batt.pack (143Ah-nominal cap.)
<b>Battery Consumption (Ah)</b>	106,658Ah (reading from 3,226Ah to 109,884Ah)
<b>Data Available From</b>	<a href="http://thredds.socib.es/thredds/dodsC/auv/glider/sdeep01-scb_sldeep001/L1/2013/dep0001_sdeep01_scb-sldeep001_L1_2013-03-22_data_dt.nc">http://thredds.socib.es/thredds/dodsC/auv/glider/sdeep01-scb_sldeep001/L1/2013/dep0001_sdeep01_scb-sldeep001_L1_2013-03-22_data_dt.nc</a>
<b>Full Mission Report From</b>	<a href="mailto:glidertech@socib.es">glidertech@socib.es</a>
<b>Technical Contact</b>	<a href="mailto:glidertech@socib.es">glidertech@socib.es</a>

**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)

