

Glider Mission Summary Report

2012 - 2015 SOCIB (CSIC)

SOCIB_CANALES_MAY2013 (GR-MR-0017)



Balearic Islands Coastal Observing and Forecasting System





Mission Name		SOCIB_CANALES_MAY2013 (GR-MR-0017)
Platform Model		Slocum 1000 G2
Platform ID / Name / WMO Code		U243 / SDEEP00 / 68457
Related Platforms / Missions		
Start Date		2013-05-20
	End Date	2013-06-14
Total Days	26	Total distance (Km / Nm) 587/317
	Survey Area (NODC or SDN region)	Mallorca and Eïvissa Channels (Western Mediterranean sea)
Objective(s)		Testing the first Lithium-Primary pack (factory part) used by SOCIB gliders. Establishing the variability of the N/S exchange of water masses that occur through the Ibiza Channel. Sampling a standard transect across the Ibiza Channel several times using physical and biogeochemical sensors. No greater than 1 month gap in between consecutive iterations.
Scientific Sensors (name & model / serial_number / calibration date)		GPCTD -SBE- / sn 0107 / 04-Jan-2012 FLNTU -WetLabs- / sn2279 / 15-Jul-2011 OPTODE -Aandera- / sn 1409 / 15-Feb-2011
Number of Profiles		777 (CTD), 252 (FLNTU), 249 (OXY)
Significant Events		First Lithium powered Glider deployed by SOCIB During the first transect in the Mallorca-Eïvisa channel, the Glider was commanded to repeat a 8Km transect in the middle of the channel in order to complete a second deep dive to max. depth This execution of the Canales mission was, in tactical terms, perfect. The programmed route, the official for Canales-2013, was 100% completed.
Mis	ssion Summary	This mission stands for the 3rd iteration of the Canales Campaign 2013, carried out by SOCIB's glider SDEEP00 (Unit 243). Launching was performed by a 2-member field-team on board 7m RIB at location N39.5303° E2.2698°. The segment in between N39.3614° E1.924° and N39.338° E1.8837° was repeated in the deepest area of the 1 st Mallorca-Eïvissa channel to perform a second deep-dive to max. depth (975m). During the time the glider remained deployed 2 Mallorca-Eïvissa and 4 Eïvissa-Valencia channels were surveyed. All of them fully completed. 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 optimal and adjusted to what was commanded and expected. 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.

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Dringing! Investigates		Prof. Joaquim Tintoré
Principal Investigator (e-mail or contact phone/address)		·
· · · · · · · · · · · · · · · · · · ·		SOCIB in collaboration with IMEDEA
Institute		
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)		Error measurement revealed no necessity to perform a compass calibration
Battery Type		Manufacturer's original Lithium batt.pack (700Ah-nominal cap.)
Battery Consumption (Ah)		113,858Ah (reading from 0,123Ah to 113,981Ah)
Data Available From		http://thredds.socib.es/thredds/dodsC/auv/glider/sdeep00-scb_sldeep000/L1/2013/dep0004_sdeep00_scb-sldeep000_L1_2013-05-20_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)	/ALENCIA	MALLORCA