

Glider Mission Summary Report

2012 - 2015 SOCIB (CSIC)

SOCIB_CANALES_NOV2014 (GR-MR-0032)



Balearic Islands Coastal Observing and Forecasting System







Mission Name		SOCIB_CANALES_NOV2014 (GR-MR-0032)		
Platform Model		Slocum 1000 G2		
Platform ID / Name / WMO Code		U184 / IDEEP00 / 68452		
Related Platforms / Missions				
Start Date		2014-11-25		
	End Date	2014-12-19		
Total Days	25	Total distance (Km / Nm)	518/280	
_	Survey Area	Mallorca and Eïvissa Channels (Western Medit	terranean sea)	
(NODC or SDN region)				
Objective(s)		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. The Mallorca Channel is also sampled when operationally practical.		
Scientific Sensors (name & model / serial_number / calibration date)		CTD -SBE- / sn 0195 / 23-Dec-2009 FLNTU -WetLabs- / sn 2128 / 01-Feb-2011 OPTODE -Aandera- / sn 0841 / 01-May-2013		
Number of Profiles		884 (CTD), 168 (FLNTU), 168 (OXY)		
Significan Event:	Super-currents prevented Eivi Second attemp	Deployment directly into Eïvissa-Valencia channel (SOCIB-R/V). Important dynamics affecting Glider's deviation from commanded track. Super-currents (never observed since 2010), in front of Valencia's coast, prevented Eïvissa-Valencia transect completion not even once. Second attempted transect ended with a 43Km drift to South in only 6 hours. Dual recovery of this Gliders along with ABACUS's U244.		
Mission Summary	carried out by S TNA mission. Deployment was E1.1039° (Eïviss During the executation of the presence of fine. Special maneuw worked only that IDEEP00 ended Considering this to Mallorca when IDEEP00 was the N39.3045° E2.3 Upon completion revised and propertions.	Deployment was executed on board SOCIB-R/V. Chosen location was N38.9841° E1.1039° (Eïvissa's N-W) to accommodate to SOCIB-R/V's cruise plan. During the execution of this mission 4 Eïvissa-Valencia transects were attempted although not 100% completed due to extraordinary N-to-W currents in front of Valencia's coast blocking que advancement of the glider for the last 16Km of the transect. 1 Eïvissa-Mallorca channel was sampled successfully during the return trip. Overall performance of mechanical and sampling devices was acceptable. There were some oddities coming from DIGIFIN, SCIENCE_SUPER, IRIDIUM and GPS. Additionally, Communications were stable (but with some call-drops) allowing proper near-real-time data sending and ARGOS messaging. Navigation was totally affected by the presence of very strong currents, for the rest, all navionic systems seemed to work		

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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		v7.13 Acomms	
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 Alkaline batt.pack (143Ah-nominal cap.)	
Battery Consumption (Ah)		107.47Ah (reading from 0.702Ah to 108.172Ah)	
Data Available From		http://thredds.socib.es/thredds/dodsC/auv/glider/ideep00- ime_sldeep000/L1/2014/dep0014_ideep00_ime-sldeep000_L1_2014- 11-25_data_dt.nc	
Full Mission Report From		glidertech@socib.es	
Technical Contact		glidertech@socib.es	
. Sommour Somaot			
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) mallo eïvissa			