



Balearic Islands Coastal Observing and Forecasting System





Mission Name		SOCIB_CANALES_JAN2017 (GF-MR-0053)	
Platform Model		Slocum 1000 G2	
Platform ID / Name / WMO Code		U244 / SDEEP01 / 68967	
Related Platforms / Missions		Socib R/V canales winter 2017	
	Start Date	2016-12-30	
End Date		2017-02-15	
Total Days	47.3	Total distance (Km / Nm)	986/ 532
	Survey Area (NODC or SDN region)	Mallorca and Eïvissa Channels (Western Medit	terranean Sea)
Objective(s)	Establishing the variability of the N/S exchange of water masses that occur through the Ibiza Channel(IC). Sampling standard transects across the Ibiza Channel several times using physical and biogeochemical sensors. No greater		

Establishing the variability of the N/S exchange of water masses that occur through the Ibiza Channel(IC). Sampling standard transects 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 0107 / 15/mar/2016
- FLNTU -WetLabs- / sn 4124 / 08/oct/2015
- OPTODE -Aandera- / sn 994 / 21/11/2014

(calibration sheets available upon request to glidertech@socib.es)

Number of Profiles

1516 (CTD), 1191 (FLNTU), 1191 (OXY)

Significant Events

- Premature recovery due bottom hitting (malfunction on altimeter)
- Some hard currents during Eivissa channel
- Glider extracted using the Socib R/V's auxiliary rib
- First inter-calibration test with rossette

Mission Summary

Preparation phases were executed between 26/12/2016 to 29/12/2016

The first thought was to not open the glider, just download data threw RF, re-ballast, and deploy it. But a problem with RF modem, forced us to open it.

Then a basic procedure was done. Data backup, final sealing, re-ballasting and pressure test. All other tests were avoided.

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Launching operation

(30/12/2016) was executed by 1 ETD and 1 GF facility members on board SOCIB I. Glider was released in N 39°29.6082' E 02°11.1111' at 11:06:25-utc. The deployment was an operative and tactical success (environmental conditions were very good). Pilot was onshore. Glider executed successful test dives prior to the first survey dive.

<u>During Mission:</u> The were some bottom hitting during this mission:

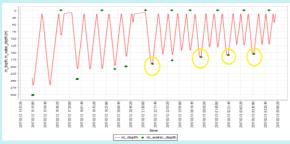


Fig 1.1. Bottom hitting

<u>Sampling</u>: Science-payload was correctly turned-on and off accordingly to the behavior of the glider executed at all moments during the mission.

Recovery operation

(15/02/2017) was executed by 1 Socib R/V's crew and 1 GF facility members on board SOCIB R/V. Glider was recovered in N 38°53.8564' E 00°21.4804' at 17:09:50 -utc.



After recovery operation, an intercalibration test with rossette was performed.

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Principal Investigator e-mail or contact phone/address) Institute ect Affiliation (web-site) ership / Participation der Software Version	SOCIB in collabora http://www.socib.ee SOCIB IMEDEA (in-kind Nav : v7.13 Acomm RT: sub-set via sa DM: direct downloa Compass error wa calibration is not ma a consequence of Teledyne lithium ba	ration with IMEDEA But d contribution of infrastructures) and service of full gathered data sets (flash-cards backup) as measured. Observed error suggests represeded. Deviation in Navigation is considered for strong currents though (See Figure 1.1) boatteries (702Ah-nominal capacity) and from 244,792 to 512,884Ah) be besthredds/catalog/auv/glider/sdeep01- atalog.html
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Further Details	glidertech@socib.e	es
Commanded	d Waypoints	Surface locations
40°N 39.5°N 38.5°N 38°N 0 1 2 3 4 5 6 7 8	910111713141516	39.5°N 39°N 38.5°N 0° 0.5°E 1°E 1.5°E 2°E
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