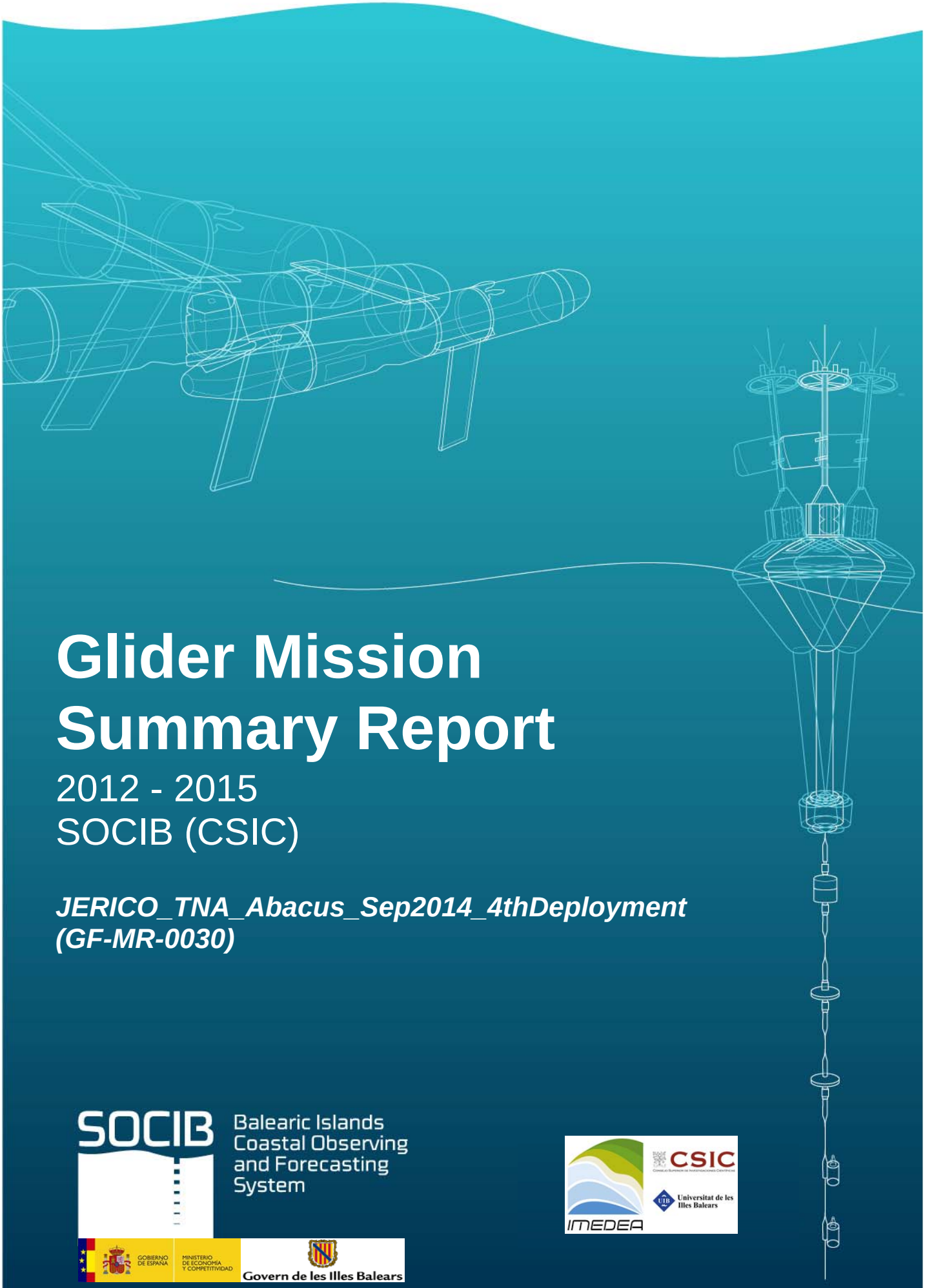


Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

JERICO_TNA_Abacus_Sep2014_4thDeployment (GF-MR-0030)

SOCIB Balearic Islands Coastal Observing and Forecasting System

GOBIERNO DE ESPAÑA · MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD · Govern de les Illes Balears

IMEDEA · CSIC · Universitat de les Illes Balears

Mission Name	*JERICO_TNA_Abacus_Sep2014_4thDeployment (GF-MR-0030)*
Platform Model	*Slocum 1000m G2*
Platform ID / Name / WMO Code	*U244 / SDEEP01 / 68967*
Related Platforms / Missions	*R/V-Tethys-II, EUDOXUS & IDEEP02 / SOMBA, MUSICS & CANALES*
Start Date	*2014-11-18*
End Date	*2014-12-19*
Total Days *32*	**Total distance (Km / Nm)** *712.3 / 385.1*
Survey Area (NODC or SDN region)	*Algerian BASIN (Western Med.)*
Objective(s)	*1.To identify the physical and biological properties of the surface and intermediate water masses between Balearic islands and Algerian coasts;* *2.To understand sub-basins dynamics and the complex interactions due to eddies;* *3.To assess the ocean description capabilities of several satellite products when approaching coastal areas, also comparing them to glider and ship collected in situ data.*
Scientific Sensors (name & model / serial_number / calibration date)	*GPCTD -S.B.E.- / sn 0107 / 04-Jan-2012* *FLNTUSLK -WetLabs- / sn2279 / 15-Jul-2015* *OPTODE_5013 -Aandera- / sn 1410 / 10-Feb-2011*
Number of Profiles	*425 (CTD), 425 (FLNTU), 425 (OXY)* *(majority of the profiles at full depth range - 20m to 975m-)*
Significant Events	*- W-shaped track planed to accomplish Saral/Altika swath sampling* *- Launching location: same as 1st and 2nd deployments* *- Altimeter false hits occurring again* *- Successful glider-sampling of 2 Saral/Altika satellite swaths #773 and #329* *- Abacus glider joined IMEDEA's IDEEP02 while waiting for a dual recovery that was finally executed without a problem*
Mission Summary	*Fourth/Last deployment attempt within ABACUS mission (in the frame of the JERICO-TNA program).* *Deployment location: North-West of 'Cabrera' island (N39° 14.062' E2° 26.756').* *The first leg was executed without adverse issues. The altimeter detected false bottom hits at the beginning but it was not a problem once the glider entered deep-diving mode. On Nov-26th the first Saral-Altika over-flight occurred near N39° 35.760' E3° 07.770'. At the end of this leg, no influence of Algerian Current was noticed and a 'W' intermediate transect executed to move from current Saral/Altika track #773 to the next one (#329).* *The second leg coincided with Saral/Altika trace #329 and a second over-flight of this satellite (over the glider) occurred near location N39° 54.462' E3° 23.328' on Dec-12th.* *Upon completion of the second leg, SDEEP01 was commanded to navigate to the launching waypoint and to navigate in-line with a 'Canales glider', IDEEP02, while waiting for a double recovery that took place on Dec-19th.* *That extraction marked the end of the water-works of ABACUS-2014 and, after the in-lab mission conclusion, all data was uploaded to SOCIB's FTP to be processed and publicly diffused for further scientific analysis.*

Parc Bit. Ctra. Valldemossa, Km 7,4 · Edifici Naorte, Bloc A, Planta 2ª, Porta 3 · 07121 Palma (Illes Balears, Espanya) · Tel. +34 971 43 99 98 · Fax +34 971 43 99 79

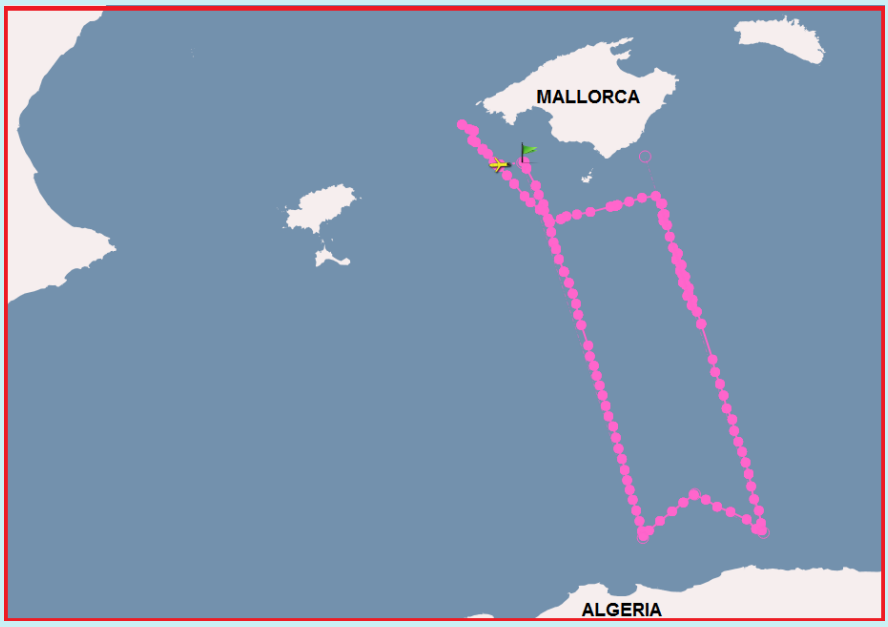
Principal Investigator (e-mail or contact phone/address)	*Prof. Giorgio Budillon* *giorgio.budillon@uniparthenope.it*
Institute	*PARTHENOPE (Univ. of Napoli, Italy)*
Project Affiliation (web-site)	*http://www.jerico-fp7.eu/tna*
Partnership / Participation	*PARTHENOPE (JERICO-TNA call solicitor&granted institution)* *CSIC-IMEDEA (accessed infrastructure and service provider)* *SOCIB (in-kind contribution of material and infrastructures)*
Glider Software Version	*v7.13 (Navigation), v3.17 (Science)*
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)	*Heading error measurement. Coefficient re-calibration not needed*
Battery Type	*Manufacturer's original Lithium batt.pack (720Ah-nominal cap.)*
Battery Consumption (Ah)	*134.975Ah (187.643Ah up to 322.618Ah of battery consumption)*
Data Available From	*http://thredds.socib.es/thredds/catalog/auv/glider/sdeep01-scb_sldeep001/L2/2014/catalog.html*
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)



Parc Bit. Ctra. Valldemossa, Km 7,4 · Edifici Naorte, Bloc A, Planta 2ª, Porta 3 · 07121 Palma (Illes Balears, Espanya) · Tel. +34 971 43 99 98 · Fax +34 971 43 99 79