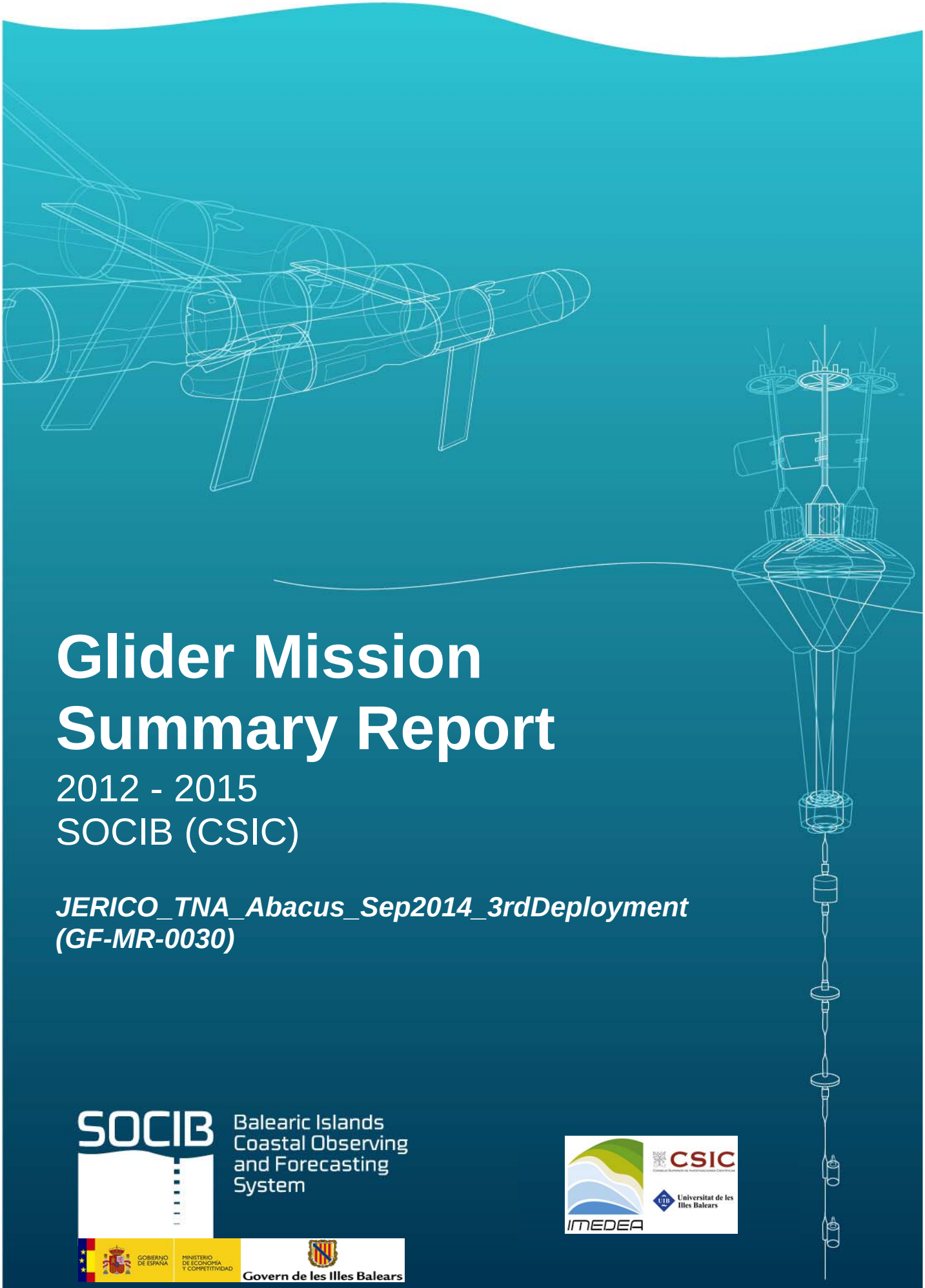

Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

JERICO_TNA_Abacus_Sep2014_3rdDeployment (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_3rdDeployment (GF-MR-0030)*
Platform Model	*Slocum 1000m G2*
Platform ID / Name / WMO Code	*U244 / SDEEP01 / 68967*
Related Platforms / Missions	*R/V-Tethys-II & Eudoxus(dt-insu glider) / SOMBA & MUSICS*
Start Date	*2014-11-03*
End Date	*2014-11-05*
Total Days *3*	**Total distance (Km / Nm)** *(n/a)*
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	*0 (CTD), 0 (FLNTU), 0 (OXY)* *(scientific survey was never effective during this 3rd attempt)*
Significant Events	*- Launching performed from a different location (with respect to 1st and 2nd deployments) driven by a Saral/Altika passage expected by Nov-7th.* *- Plans for glider-sampling of Saral/Altika satellite swath* *- Aborts and Mission-Cancelation due to spurious power resets (glider restarting without being commanded so)*
Mission Summary	*Third deployment attempt within ABACUS mission (in the frame of the JERICO-TNA program).* *Deployment location: South of Mallorca island (N39° 17.054' E3° 16.019'), departing from Porto-Colom port.* *Having 6 hours elapsed only, since the launching, SDEEP01 reported being executing the 'Last-gasp' mission. The cause of such behavior was that an spontaneous general-power reset had occurred with the platform being underwater. Although all systems seemed to be working properly, more resets occurred during the following 12 hrs. Under this circumstances, it was decided to leave the glider drifting at the surface while waiting for an emergency recovery.* *Finally, extraction took place in the vicinity of the launching waypoint. Precisely, in location N39º10.380' E03º26.178'.* *Following on-bench inspection revealed that the problem was due to two factors concerning the ON/OFF master plug: (1) metallic terminals of the connector's socket were dirty and (2) non-appropriate synthetic lube was applied to the terminals of the connector's plug (Green Plug) by on-field technicians minutes before the launching (according to the technical specifications of this synthetic grease, it is not a suitable product for such a purpose). Once the connector male/female components were properly cleaned and lubed, the incident was considered as 100% solved.*

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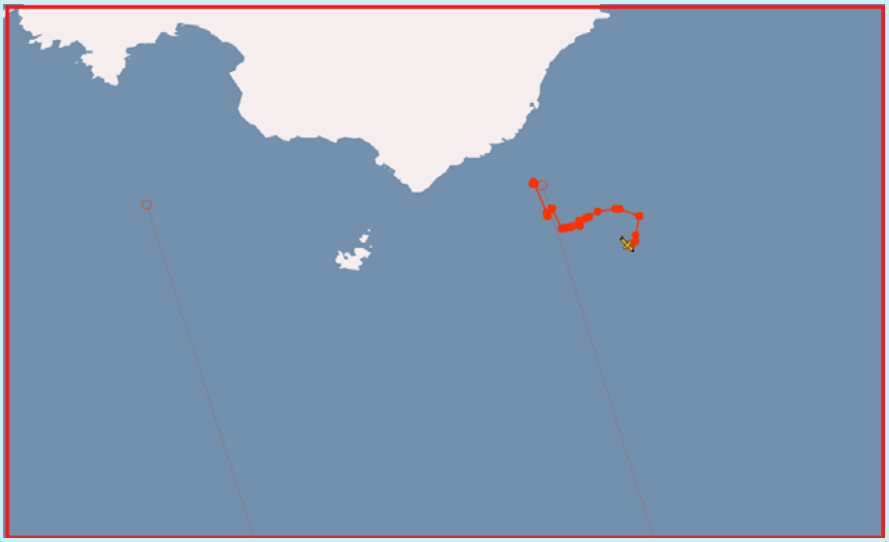
Principal Investigator (e-mail or contact phone/address)	*Prof. Giorgio Budillon* *giorgio.budillon@uniparthenope.it*
Institute	*PARTHENOPE (Univ. of Napoli, Italy)*
Project Affiliation (web-site)	*http://www.jerico-fp7.eu/tna*
Partnership / Participation	*PARTHENOPE (JERICO-TNA call solicitor&granted 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])	*(n/a)* *(scientific survey was never effective during this 3rd attempt)*
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)	*Undetermined (consumption record lost due to resets)*
Data Available From	*(n/a)* *(scientific survey was never effective during this 3rd attempt)*
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)



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