



# Glider Mission Summary Report

2012 - 2015  
SOCIB (CSIC)

*JERICO\_TNA\_Abacus\_Sep2014\_2ndDeployment  
(GF-MR-0030)*



Balearic Islands  
Coastal Observing  
and Forecasting  
System



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD



Govern de les Illes Balears



<b>Mission Name</b>		JERICO_TNA_Abacus_Sep2014_2ndDeployment (GF-MR-0030)	
<b>Platform Model</b>		Slocum 1000m G2	
<b>Platform ID / Name / WMO Code</b>		U244 / SDEEP01 / 68967	
<b>Related Platforms / Missions</b>		R/V-Tethys-II & Eudoxus(dt-insu glider) / SOMBA & MUSICS	
<b>Start Date</b>		2014-09-15	
<b>End Date</b>		2014-10-20	
<b>Total Days</b>	36	<b>Total distance (Km / Nm)</b>	830 / 449
<b>Survey Area</b> (NODC or SDN region)		Algerian BASIN (Western Med.)	
<b>Objective(s)</b>		<p>1.To identify the physical and biological properties of the surface and intermediate water masses between Balearic islands and Algerian coasts;</p> <p>2.To understand sub-basins dynamics and the complex interactions due to eddies;</p> <p>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.</p>	
<b>Scientific Sensors</b> (name & model / serial_number / calibration date)		<p>GPCTD -S.B.E.- / sn 0107 / 04-Jan-2012</p> <p>FLNTUSLK -WetLabs- / sn2279 / 15-Jul-2015</p> <p>OPTODE_5013 -Aandera- / sn 1410 / 10-Feb-2011</p>	
<b>Number of Profiles</b>		<p>338 (CTD), 338 (FLNTU), 338 (OXY)</p> <p>(mostly all are 20-975m profiles)</p>	
<b>Significant Events</b>		<ul style="list-style-type: none"> <li>- altimeter exhibiting false bottom hits (glider ending dives prematurely)</li> <li>- EDDY sampling (not programmed, on the fly)</li> <li>- No issues when entering the Algerian Current</li> <li>- Service-Intervention (glider recovered for check and data backup)</li> </ul>	
<b>Mission Summary</b>		<p>Second deployment attempt within ABACUS mission (in the frame of the JERICO-TNA program).</p> <p>Deployment location: North-West of 'Cabrera' island (39°15.232' N 02°33.590' E).</p> <p>The first leg and interception of the Algerian Current occurred without relevant issues and with fluid and stable communications and near-real-time data transferring.</p> <p>The return leg was interrupted after 2 days of its start by modifying the route in order to cross-sample an Eddy detected using satellite imagery and 2 IMEDEA/SOCIB drifters. This sampling concluded after 12 days without significant route deviation.</p> <p>Finally, the glider was recovered in the vicinity of the launching waypoint. Precisely, it was extracted from the water in location N39°15.131' E02°34.278'.</p> <p>This recovery marked the beginning of a Service-Intervention which included general checkout, full dataset backup and preparation for next deployment. This period of time also provided rest to the piloting team.</p>	

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<b>Institute</b>	PARTHENOPE (Univ. of Napoli, Italy)
<b>Project Affiliation</b> (web-site)	<a href="http://www.jerico-fp7.eu/tna">http://www.jerico-fp7.eu/tna</a>
<b>Partnership / Participation</b>	PARTHENOPE (JERICO-TNA call solicitor&granted institution) CSIC-IMEDEA (accessed infrastructure and service provider) SOCIB (in-kind contribution of material and infrastructures)
<b>Glider Software Version</b>	v7.13 (Navigation), v3.17 (Science)
<b>Data Retrieval</b> (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
<b>Compass Calibration</b> (specify procedure)	Heading error measurement. Coefficient re-calibration not needed
<b>Battery Type</b>	Manufacturer's original Lithium batt.pack (720Ah-nominal cap.)
<b>Battery Consumption (Ah)</b>	147,194Ah (19,063Ah up to 166,257Ah of battery consumption)
<b>Data Available From</b>	<a href="http://thredds.socib.es/thredds/catalog/auv/glider/sdeep01-scb_sldeep001/L2/2014/catalog.html">http://thredds.socib.es/thredds/catalog/auv/glider/sdeep01-scb_sldeep001/L2/2014/catalog.html</a>
<b>Full Mission Report From</b>	<a href="mailto:glidertech@socib.es">glidertech@socib.es</a>
<b>Technical Contact</b>	<a href="mailto:glidertech@socib.es">glidertech@socib.es</a>

**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)

