



# Glider Mission Summary Report

2012 - 2015  
SOCIB (CSIC)

*ALBOREX-PERSEUS-2014 (gf-mr-0027)*



Balearic Islands  
Coastal Observing  
and Forecasting  
System



MINISTERIO  
DE ECONOMÍA  
Y COMPETITIVIDAD



Govern de les Illes Balears



<b>Mission Name</b>		ALBOREX-PERSEUS-2014 (gf-mr-0027)	
<b>Platform Model</b>		Slocum 1000m G1	
<b>Platform ID / Name / WMO Code</b>		U184 / IDEEP00 / (n/a)	
<b>Related Platforms / Missions</b>		ICOAST00 / ALBOREX(Perseus) & FRIPP (Jerico-tna)	
<b>Start Date</b>		2014-05-25	
<b>End Date</b>		2014-05-30	
<b>Total Days</b>	6	<b>Total distance (Km / Nm)</b>	127,0 / 69,0
<b>Survey Area</b> (NODC or SDN region)		Alboran Sea (Western Med.)	
<b>Objective(s)</b>		<i>(Within Subtask 3.3.4 of PERSEUS) to design and conduct a multi-platform synoptic experiment (ALBOREX) in the eastern Alboran Sea, an area characterized by sharp gradients that lead to the appearance of intense mesoscale and sub-mesoscale features. The final goal is to monitor and establish the vertical exchanges associated with mesoscale and sub-mesoscale and their contribution to upper-ocean interior exchanges.</i>	
<b>Scientific Sensors</b> (name & model / serial_number / calibration date)		CTD A4468-S.B.E. - / sn 0195 / 10-Apr-2013 FLNTUSLK -WetLabs- / sn2128 / 01-Feb-2011 OPTODE_3830 -Aandera- / sn 0841 / 14-Sep-2010	
<b>Number of Profiles</b>		136 (CTD), 136 (FLNTU), 136 (OXY) <i>(all of these profiles at max. depth range: 0 to 500 m)</i>	
<b>Significant Events</b>		<i>Poor comms. during launching Payload error during the first night which prevented from taking samples during 8 hours Strong currents Pressure-sensor oddities Mission interrupted due to GPS acquiring improper fixes</i>	
<b>Mission Summary</b>		<i>IDEEP00 underwent through long enough preparation and water-testing to be loaded on-board R/V-SOCIB considered to be in optimal conditions. The launching, at N37° 09.141' W00° 41.630' , from R/V-SOCIB, was entirely commanded from IMEDEA and was conditioned by poor Iridium communications that caused the whole mission-start operation to be longer than expected. During the execution phase, mechanical systems operated as expected. On the contrary, there were significant issues with the sensor Payload (turned off during the first night) and GPS (mission stop due to fixes not being updated properly). Additionally, a second mission abort occurred due to a spurious behavior error. In spite of all that, the execution was, in general terms, successful and adjusted to the plans. With respect to the traced route, IDEEP00 was seriously pushed by currents which forced pilots to modify the commanded route a few times and resulted in an overall different track than initially planned. The recovery was performed using the RIB boat of R/V-SOCIB, at N36° 48.113 W00° 16.084', during a quick and perfectly executed action. After that, mission conclusion was carried out and data uploaded to SOCIB's FTP servers.</i>	

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<b>Institute</b>	<i>IMEDEA (<a href="https://imedea.uib-csic.es">https://imedea.uib-csic.es</a>)</i>
<b>Project Affiliation</b> (web-site)	<i><a href="http://www.perseus.net.eu">http://www.perseus.net.eu</a></i>
<b>Partnership / Participation</b>	<i>PERSEUS-ALBOREX-Plan: CSIC(ES), SOCIB(ES), OGS(IT), IEO(ES), CNR(IT), SASEMAR(ES), WHOI(USA), UCLA(USA), UMA(ES)</i>
<b>Glider Software Version</b>	<i>v7.13 (navigation), v3.17 (science)</i>
<b>Data Retrieval</b> (real-time [ RT ] / delayed-mode [ DM ] )	<i>Real-time sub-set via satellite link every 6 hours every day</i> <i>Delayed-mode direct download of full gathered data sets</i>
<b>Compass Calibration</b> (specify procedure)	<i>This mission was the first one after IDEEP00 refurbishment (in 2013) during which compass was factory calibrated</i>
<b>Battery Type</b>	<i>Manufacturer's original Alkaline batt.pack (145Ah-nominal cap.)</i>
<b>Battery Consumption (Ah)</b>	<i>25.553Ah (11.533Ah up to 37.086Ah of battery consumption)</i>
<b>Data Available From</b>	<i><a href="http://thredds.socib.es/thredds/dodsC/auv/glider/ideep00-ime_sldeep000/L2/2014/dep0012_ideep00_ime-sldeep000_L2_2014-05-25_data_dt.nc">http://thredds.socib.es/thredds/dodsC/auv/glider/ideep00-ime_sldeep000/L2/2014/dep0012_ideep00_ime-sldeep000_L2_2014-05-25_data_dt.nc</a></i>
<b>Full Mission Report From</b>	<i><a href="mailto:glidertech@socib.es">glidertech@socib.es</a></i>
<b>Technical Contact</b>	<i><a href="mailto:glidertech@socib.es">glidertech@socib.es</a></i>

**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)

