



Glider Mission Summary Report

2012 - 2015
SOCIB (CSIC)

ALBOREX-TNA(FRIPP)-2014 (gf-mr-0027)



Balearic Islands
Coastal Observing
and Forecasting
System



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Govern de les Illes Balears



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| Mission Name | | ALBOREX-TNA(FRIPP)-2014 (gf-mr-0027) | |
| Platform Model | | Slocum 200m G1 | |
| Platform ID / Name / WMO Code | | U050 / ICOAST00 / (n/a) | |
| Related Platforms / Missions | | IDEEP00 and the rest of platforms involved in ALBOREX | |
| Start Date | | 2014-05-25 | |
| End Date | | 2014-05-30 | |
| Total Days | 6 | Total distance (Km / Nm) | 118,0 / 63,8 |
| Survey Area (NODC or SDN region) | | Alboran Sea (Western Med.) | |
| Objective(s) | | The project aims to study the impact of frontal dynamics on the Phytoplankton production and distribution as inferred from fluorometric measurements. Further, the mission will be accomplished in concomitance to another multi-platform (Ship-based ctd, model, bottles analysis) experiment (ALBOREX) that will contribute to have a wider and more complete data-base to study the processes of interest. | |
| Scientific Sensors (name & model / serial_number / calibration date) | | CTD -S.B.E.- / sn 0041 / 02-Aug-2011 FLNTUSLO -WetLabs- / sn0696 / 02-Feb-2011 OPTODE_3835 -Aandera- / sn 0429 / 20-Jan-2011 | |
| Number of Profiles | | 392 (CTD), 392 (FLNTU), 392 (OXY) (all of these profiles at max. depth range: 0 to 200 m) | |
| Significant Events | | High number of Buoyancy-pump and Digifin oddities Strong currents Multiple route changes No mission aborts nor system failures Some dropped calls | |
| Mission Summary | | <p>ICOAST00 underwent through long enough preparation and water-testing to be loaded on-board R/V-SOCIB considered to be in optimal conditions.</p> <p>The launching, at N37° 08.935' W00° 48.663' , 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.</p> <p>During the execution of the mission mechanical systems worked as expected although with more oddities than during test trials. Scientific sensors were on and sampling as configured and no relevant communications issues (including GPS positioning) occurred once the mission was running. ICOAST00 was never in danger nor trapped in strong currents. Nevertheless, these currents forced to perform multiple on-the-fly waypoints which contributed to ending up with a traced-route being quite dissimilar to the initially commanded waypoint track.</p> <p>The recovery was performed using the RIB boat of R/V-SOCIB, at N37° 08.935' W00° 48.663', during a quick and perfectly executed action.</p> <p>After that, mission conclusion was carried out and data uploaded to SOCIB's FTP servers.</p> | |

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| Principal Investigator (e-mail or contact phone/address) | <i>Dr. Antonio Olita</i> <i>+39 0783 229015 / antonio.olita@iamc.cnr.it</i> |
| Institute | <i>C.N.R. IAMC (Unità Operativa di Oristano, Italia)</i> |
| Project Affiliation (web-site) | <i>http://www.jerico-fp7.eu/tna (CALL_3-1: Project FRIPP)</i> |
| Partnership / Participation | <i>CNR-IAMC</i> <i>PERSEUS-ALBOREX-Plan: CSIC(ES), SOCIB(ES), OGS(IT),</i> <i>IEO(ES), CNR(IT), SASEMAR(ES), WHOI(USA), UCLA(USA),</i> <i>UMA(ES)</i> |
| Glider Software Version | <i>v7.13 (navigation), v3.17 (science)</i> |
| Data Retrieval (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> |
| Compass Calibration (specify procedure) | <i>This mission was the first one after ICOAST00 refurbishment</i> <i>(in 2013) during which compass was factory calibrated</i> |
| Battery Type | <i>Manufacturer's original Alkaline batt.pack (145Ah-nominal cap.)</i> |
| Battery Consumption (Ah) | <i>26.737Ah (18.345Ah up to 45.082Ah of battery consumption)</i> |
| Data Available From | <i>http://thredds.socib.es/thredds/dodsC/auv/glider/icoast00-ime_slcost000/L2/2014/dep0005_icoast00_ime_slcost000_L2_2014-05-25_data_dt.nc</i> |
| Full Mission Report From | <i>glidertech@socib.es</i> |
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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)

