

**GLIDER OPERATIONS IN EUROPE: SCIENTIFIC, TECHNICAL AND OPERATIONAL CHALLENGES**  
**JERICO/GROOM - EGO Glider Workshop**  
**22nd – 23rd May 2012, Mallorca**

**Objectives:**

- 1) To review the current status of the existing glider fleet and glider facilities in operational use in European seas
- 2) To identify best technical practices for operation of a fleet of gliders
- 3) To identify the needs for a Coastal European glider observing system
- 4) To coordinate European glider activities (mainly JERICO and GROOM projects, within the framework of EGO activities, ES0904 COST action)

<b>DAY 1: Tuesday 22nd May 2012</b>	
<b>8:45</b>	<b>Workshop opens - welcome and meeting objectives</b> <b>P. Farcy / P. Testor / J. Tintoré</b>
<b>Session 1. Review of present/future needs for gliders in Europe</b> <b>Chair: R. Onken / E. Mauri</b>	
9:00	P. Testor - Review <ul style="list-style-type: none"> <li>1.1 Scientific challenges: key hot topics, long term monitoring</li> <li>1.2 Environmental challenges: MSFD/ GES, emergency response</li> <li>1.3 Gliders as a new component of a European Ocean Observing System</li> </ul>
9:30	Discussion, synthesis, conclusions → Identifying gaps and needs
10:30	<b>Coffee</b>
<b>Session 2: Review of existing glider facilities and technology</b> <b>Chair: A. Alvarez / L. Merckelbach</b>	
10:45	T. Eleftheriou - Review Cyprus
11:00	L. Beguery / P. Testor - Review France
11:15	G. Krahmann / L. Merckelbach / A. Beszczynska-Moeller / Andeas Funk - Review Germany
11:30	R. Onken / A. Alvarez / E. Mauri - Review Italy
11:45	S. Osterhus - Review Norway
12:00	S. Ruiz / J. Tintoré / C. Barrera - Review Spain
12:15	P. Knight / D. Smeed / B. Queste / E. Dumont - Review UK
12:30	G. Petihakis - Review Greece
12:45	W. Walczowski – Review Poland <ul style="list-style-type: none"> <li>2.1 Gliders: existing platforms and sensors</li> <li>2.2 Workshops: ballasting, repairing, pressure testing</li> <li>2.3 Ground segments: computer infrastructures (glider communications, data processing,...)</li> <li>2.4 Calibration facilities</li> <li>2.5 Coastal Ships</li> </ul>
13:00	<b>Lunch</b>
14:00	Discussion, synthesis, conclusion across Europe
<b>Session 3. Review best practices in glider operations (one glider/fleet)</b> <b>Chair: L. Beguery / C. Barrera</b>	
15:30	3.1 L. Lucas Merckelbach and others - Glider platforms in the lab <ul style="list-style-type: none"> <li>i. Platform maintenance</li> <li>ii. Sensor maintenance (CTD, optical,...)</li> <li>iii. Sensor calibration and inter-calibration for glider fleets</li> </ul>
16:30	<b>Coffee</b>
16:50	Discussion, synthesis, conclusions
17:50	3.2 A. Alvarez and others - Glider Mission <ul style="list-style-type: none"> <li>i. Mission preparation: definition and safety.</li> <li>ii. Mission start/end: launching and recovering</li> </ul>

iii. Mission control: piloting (24h/7d monitoring, interactions with scientists)	
iv. Procedures used by different teams	
18:30	<b>Close</b>
20:45	<b>Dinner in the hotel</b>

<b>DAY 2: Wednesday 23rd May 2012</b>	
<b>9:00</b>	Questionnaires (D.Smeed)
9:20	3.2 A. Alvarez and others - Glider Mission Summary from previous day then discussion, synthesis, conclusions
10:20	3.3 S. Pouliquen and others - Glider Data Management i. State of the art in glider data management ii. Definition of a glider data management strategy - How to define a glider (metadata, scientific and technical definitions) - Real-time data (data streams during operations, how to share) - Delayed-mode (data streams after recovery) iii. Quality control and validation
10:30	<b>Coffee</b>
<b>10:45</b>	Discussion, synthesis, conclusions
12:00	3.4 L. Beguery and others - Glider cost analysis
13:00	<b>Lunch</b>
<b>14:00</b>	Discussion, synthesis, conclusions
<b>Session 4. Recommendations for glider contributions to a European Coastal Observatories Strategy</b>	
<b>Chair: D. Smeed / R. Riethmuller</b>	
15:00	4.1 D. Smeed - Science: key topics to be addressed using gliders
15:20	4.2 P. Testor - Technology: future directions, operations, sensors, platforms and support
15:40	4.3 J. Tintoré - Society: contributions to: European Marine Policy, emergency response, etc.
16:00	4.4 P. Farcy - Coordination: glider contribution to a European Coastal Observatory Strategy
<b>16:20</b>	<b>Coffee</b>
<b>16:40</b>	Discussion, synthesis, conclusions
17:40	Wrap up
<b>18:00</b>	<b>Workshop Closes</b>