

|                                    |   |   |
|------------------------------------|---|---|
| <b>Infrastructure (short name)</b> | National Glider facility  |  |
| <b>Installation (short name)</b>   | National Glider facility (CETSM)  |   |
| <b>Location</b>                    | Western Mediterranean   |   |
| <b>Legal name of organization</b>  | Institut National des Sciences de l'Univers/ Centre National de la Recherche Scientifique INSU/CNRS   |   |
| <b>Location of organization</b>    | La Seyne sur mer, France  |   |
| <b>Contact</b>                     | Pierre Testor, testor@locean-ipsl.upmc.fr<br>Laboratoire d'Océanographie et de Climatologie :<br>Expérimentation et Approches Numériques (LOCEAN, ex LODYC)<br>Institut Pierre Simon Laplace, Université Pierre et Marie Curie,<br>aile 45-55, 4ème étage, case 100<br>4 Place Jussieu, 75252 Paris cedex 05, France<br>Phone: +33 1 44 27 72 75 Fax: +33 1 44 27 38 05 |   |
| <b>Web site address</b>            | <a href="http://www.ego-network.org">http://www.ego-network.org</a>   |   |

|   |
|---|
| <b>Description</b>  |
| <p>The French National Glider facility is held by DT-INSU in La Seyne sur mer. It is part of and supports a larger group so-called EGO (Everyone's Glider Observatories ).</p> <p>This glider facility started in September 2008, and is now composed of 5 engineers and technicians operating, by the end of 2011, 14 operational gliders, 4 of them being shallow gliders rated to 200m depth maximum but ideal for operations on the shelf.</p> <p>The facility is fully equipped to prepare, operate and maintain gliders:</p> <ul style="list-style-type: none"> <li>- A glider ballasting tank in order to prepare the glider,</li> <li>- An electronic lab for battery change and maintenance</li> <li>- Servers and modems for communications with the gliders</li> <li>- The ego-network.org web server which allows the real-time display of the collected data and containstools for piloting gliders (monitoring and mission changes) through the web, in a collaborative way</li> </ul> <p>The glider staff is fully trained (preparation and piloting) and is working on shift for continuous service.</p> <p>Among the gliders one can find the following available sensors:</p> <ul style="list-style-type: none"> <li>- CTD</li> <li>- Oxygen Optode</li> <li>- Fluorimeters (ChlA, CDOM, Phycoerythrine,)</li> <li>- Back scattering (from 470 to 880 nm), turbidity</li> </ul> |
| <b>Service offered</b>  |
| INSU can provide access to users to the DT-INSU gliders facilities, including the use of one or   |

more glider units (after a carefully peer-review of proposed missions – feasibility, mission definition, benefits, etc...)

The proposed services can consist of:

- Preparation of a fleet of gliders (1 to 3 gliders) and its sensors for a specific task and for the area to operate, including new sensors to integrate and test
- Logistics from the operator facilities to the operation site and return as well as launch/recovery operations of the gliders, if the operation site is in the vicinity of DT-INSU gliders facilities (NW Mediterranean, otherwise only assistance will be provided).
- Remote control and programming of the gliders
- Data recovery and delivery to the user.

As long as the iridium link between the gliders and land make it possible, real-time data will be available in real-time. There is a dedicated team composed of technicians who prepare and operate the gliders, program and supervise the cruise, format and distribute the data at the end of the cruise.

### Instruments/Sensors

| Instrument | Measured Parameter(s)                 | Elevation/Depth                                     | Sampling frequency | Frequency of data recovery |
|------------|---------------------------------------|---|--------------------|----------------------------|
| glider1    | T, S, O2+other biogeochemical sensors | 0-200m<br>or<br>0-1000m<br>(min of ~50m waterdepth) | 4-8s               | ~5h                        |
| glider2    | T, S, O2+other biogeochemical sensors | 0-200m<br>or<br>0-1000m<br>(min of ~50m waterdepth) | 4-8s               | ~5h                        |
| glider3    | T, S, O2+other biogeochemical sensors | 0-200m<br>or<br>0-1000m<br>(min of ~50m waterdepth) | 4-8s               | ~5h                        |

### Special owner rules

Carefully peer-review of proposed missions – study area, feasibility, mission definition, benefits.