EGO - Action ES0904

GROOM
Gliders for Research, Ocean Observation &Management

JERICO

# Technology: future directions, operations, sensors, platforms and support

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LOCEAN-IPSL, CNRS, Paris, France

*Joint EGO/GROOM/JERICO Glider Workshop,*
*22-23 May 2012, Palma de Mallorca, Spain*

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EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

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SEVENTH FRAMEWORK
PROGRAMME

# future directions, operations, sensors, platforms and support

## Summary of yesterday/today discussions

There are general and strong needs:

1) Have a better visibility for gliders activity

2) Show our EU group can function as a distributed architecture (www) – at the same level as IMOS, IOOS,…

3) Have a common framework for legal issues

4) Better share technical information (forum, questionnaires, reports collection…)

5) Better analyze the technical data

6) Better share tools/procedures used for glider setup, deployment, piloting, recovery, calibration.

# future directions, visibility

Have a better visibility for gliders activity:

1) Need for a common scientific objective (MFSD/cross slope exchanges? …) and better advertise the initiatives.

2) Shame for gliders on European/global maps!!!

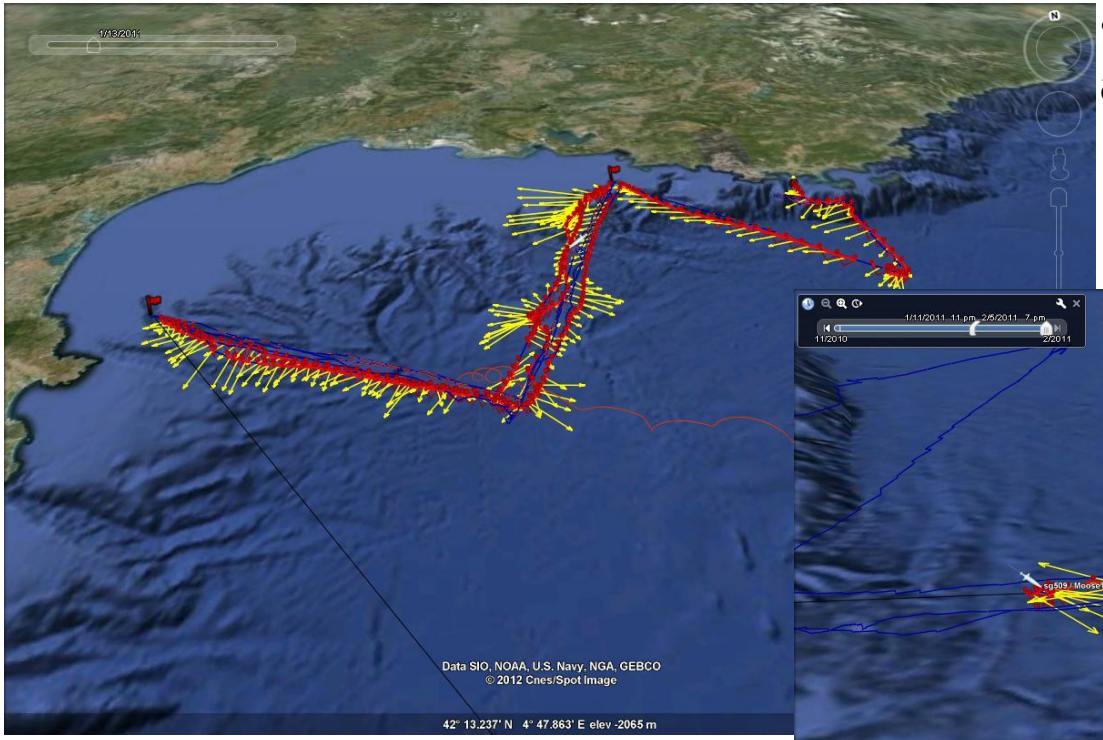
How to achieve that:

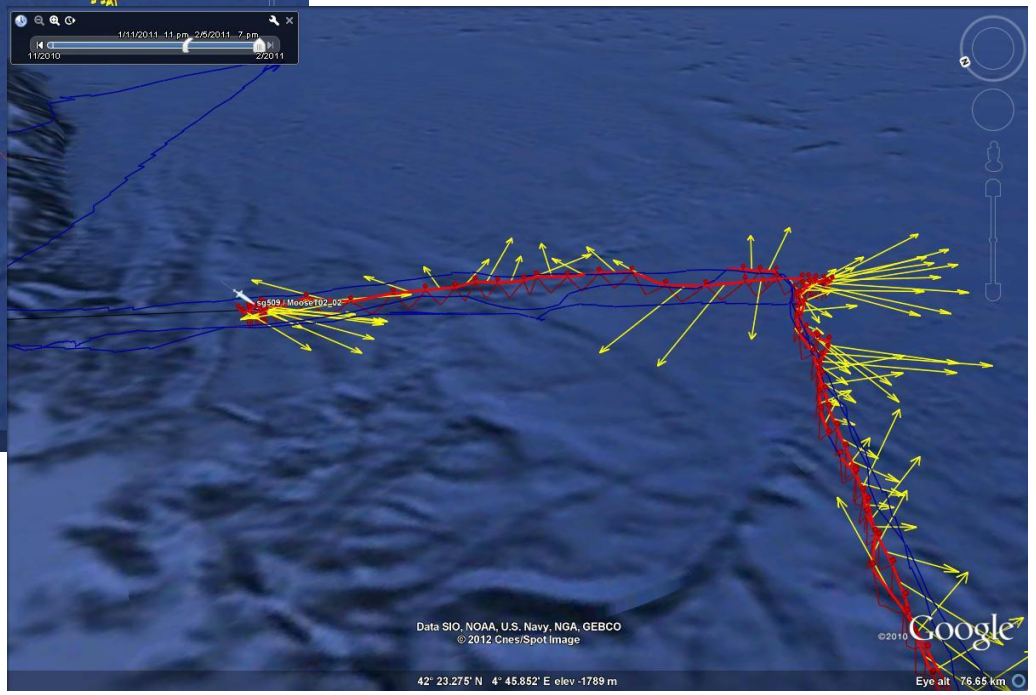
- Show/advertise a common scientific objective (improve “outreach, dissemination, www” and the elaboration of a joint proposal in 2-3 years)

- Make publicly available at least the positions/trajectories of the gliders with some meta information.

- Make publicly available (raw/ascii) real-time data. Different platforms/format but ‘only’ need to setup a single EU repository (or several) and use existing scripts.

# future directions, visibility

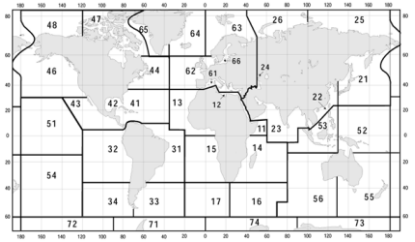



- single kml/mkz format (what about the currents?)

- Problem of the data ownership... There are tools for permission to be asked to the PI before the use of the scientific data. That could be set up through meta information specifications.

# future directions, legal framework



Only possible with a clear (global, Argo-like) data policy.
Build on what already exists.

If data (T/S profiles) are pushed to the GTS (Coriolis,…), gliders/deployments get WMO numbers.
http://www.wmo.int/pages/prog/amp/mmop/wmo-number-rules.html (gliders!)

It is then considered as any of the other 'not-that-dangerous' platforms but providing great benefits to the world community through NWP. Umbrella.

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*The **IOC***
***Considering that** (…) **Considering further** that the Argo project shall be fully consistent with UNCLOS,*
***Noting** the absence of a specific international legal instrument regulating profiling floats, drifting buoys, and other similar objects deployed in the oceans,*
***Recognizing that:** i. just as with existing surface drifting buoys, some of these new instruments may drift into waters under national jurisdiction,*
*(…)*
***Accepts** the Argo project as an important contribution to the operational ocean observing system of GOOS and GCOS, as well as a major contribution to CLIVAR and other scientific research programmes;*
*(…)*
***Concludes** that **concerned coastal states must be informed in advance, through appropriate channels, of all deployments of profiling floats which might drift into waters under their jurisdiction, indicating the exact locations of such deployments**,*

http://argo.jcommops.org/IOC_Resolution_XX-6.html
http://www.jcommops.org/FTPRoot/Argo/Doc/XLI-4.pdf (…)

need for lights?

# future directions, operations and support

## Better share technical information (forum, questionnaires, reports collection…)

need incident reports to upload date-hour-unit author 2 keywords max. but more for inte
read access but posting only for users. pb of the main authority pb of duplication. urgen
public on the web. pressure on the manufacturer
Last year (maybe 2): Technical reports to provide and made available on the web.
use english anyway
Deadline, piles of report
to be organized: 1 post on a forum with report attached and 3 keywords.
1) lab problem
2) mission problems

WG glider loss form
WG mission end form
WG lab trouble form Laurent, Carlos, Marc, David.

2 levels of information
answers of forms not publicly available.
everything public.

Note pour dire au gens ou uploader les reports.

# future directions, sensors, platforms

## Better analyse the technical data

High level indicators (questionnaires)

Technical data must be available for GROOM studies on a large variety of deployments (reliable conclusions). A waste to develop a specific format and data flow for that (decimated scientific data?). Likely, we will have to re-do it again if only a limited number of variables are considered for storage.

Again, the prefered solution is a Gentle(wo)man Agreement (or a MoU?) about the exploitation of the data.

Better define best practise. Final products are comparable.

Goal would also be to ‘publish’ a paper on our glider database (hamornization, QC, studies,…)

# future directions, operations and support

Better share tools/procedures used for
glider setup, deployment, piloting, recovery, calibration.

Setup: mission planning (satellite/model data) – configuration, sampling plans, risks/costs (time spent at surface), AIS

Deployment: from large vessels/rough conditions. There are already some tools that have been developed.

Recovery: from large vessels/rough conditions.
a BUGS system providing directions/maps to the ship (including information sent from land and radiowave devices) is needed for recovery by third parties (emergencies). Integrated iridium phone and/or ship mail system ?

# future directions, operations and support

Piloting: daily ops vs night coverage

- unattended, real on alert, regular control
- Log of all interventions

Communications:

- need for backup land stations (basestation/dockserver/groundstation) shared by EU partners? (pain to setup and has to be delocalized for safety)
- Why not primary ones?
- recover NRT files that were not correctly transmitted... or not.

Processing/calibration, visualization, operationnal routines:

- path planning
- visualization scripts
- matlab toolbox - Sunke Schmidt in 3 weeks. ask the time stamps for the measurements. 30% reduction for lifetime. different processors for seagliders.
- igloo
- bugs
- www
- matlab scripts etc…

We need for at least a common repository for scripts.

# future directions, www visibility

| | |
|---|---|
| www.ego-network.org | international user group started in 2005 (EGO-0, Palma), includes EU, USA, Canada, South Africa, Australia,… |
| www.ego-cost.eu | 3-year networking project EU and international |
| www.groom-fp7.eu | 3-year EU design study |

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| | |
|---|---|
| www.jerico-fp7.eu | 4-year EU RI project |
| www.xyz.eu/abcr/.../org | different eu/national science/outreach projects with gliders |

(…)

# EGO

Everyone's Gliding Observatories

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*Developing a new observational capacity for process studies and operational monitoring of the ocean physics and biogeochemistry with gliders.*

## Welcome to the EGO website

This site is dedicated to the **promotion of the glider technology and its applications**.

The EGO group promotes glider applications through coordination, training, liaison between providers and users, advocacy, and provision of expert advice.

We intend to favor oceanographic experiments and the operational monitoring of the oceans with gliders through scientific and international collaboration. We provide news, support, information about glider projects and glider data management, as well as resources related to gliders.

If you use the glider technology (or plan to use it), please first register to have full access to this website and contact us if you want to contribute.

talking with a glider 15nm away through radio waves from a 300m-height cliff

Edit

## News

- **Second EU-Australia workshop on research infrastructure, 26-27 June 2012, Brussels**
  Following last year's very successful EU-AUS Research Infrastructure workshop, a further one on 26-27 June is organ ...
  (Edited on 28.04.12 ... Read all)
- **Glider Swarm Experiment in the Mediterranean - coordination meeting, 30 May 2012, Brussels**
  Starting in autumn 2012, there will be several experiments with gliders in the northwestern Mediterranean Sea, conducted ...
  (Edited on 28.04.12 ... Read all)
- **EGO/GROOM article published in the Mercator/Coriolis newsletter N.8**
  Towards a global glider infrastructure for the benefit of marine research and operational oceanography. Download at htt ...
  (Edited on 13.04.12 ... Read all)


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Since 2012-04-23, every visitor leaves an eternal dot on the globe

685 visits in 1 month

Recent visitors are tagged by the labels showing flag, city and state

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# Selected documents

## Stommel's vision in 1989

Edit

The concept of underwater gliders just emerged in the late 80's and Henry Stommel anticipated their development and their use. He wrote a very nice "science fiction" article which was published in Oceanography, April 1989, see Stommel H. (1989) The Slocum Mission . In looking back on Stommel's 1989 article anticipating autonomous gliders, we marvel at how much of what followed he had predicted.

## OceanObs'99 vision for gliders

Edit

While gliders were being developed and successfully passing first tests, their potential use for ocean research started to be discussed in international conferences. See the OceanObs99 Conference Statement - UNESCO:

*"(…) In terms of specific need, the Conference noted that gliders (self-steered profiling floats) offered a potential effective solution for repeated sampling through narrow, swift boundary currents. (…)"*

*" (…) Technological advances help us improve cost-effectiveness, sampling, and distribution. For example, the expected maturity of autonomous underwater vehicles either through passive techniques, such as gliders, or active systems will change the abilities or plans for Argo. (…)"*

## The development of underwater gliders

Edit

After the prototype phase, the three different operational gliders were presented by their designers in Davis et al (2003) and applications to ocean research in Rudnick et al. (2004) .

## OceanObs'09 Community White Paper

Edit

First results of glider experiments span several subjects. Since flying gliders allows to resolve a wide range of spatial and temporal scales, one is generally amazed by the oceanic features they (and various sensors on-board) reveal. Glider data help us to better understand and characterize the oceanic variability and this concerns many physical and biogeochemical processes at large scale, mesoscale, and even submesoscale (from *~1000km horiz. and ~1month* to *~1km horiz. and ~1hour*). In addition, the assimilation of glider data in global or regional/coastal numerical models can significantly reduce the uncertainties of our ocean state estimates (physical and biogeochemical) and there is now a general agreement that gliders can make us enter into a new era in oceanography

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# References

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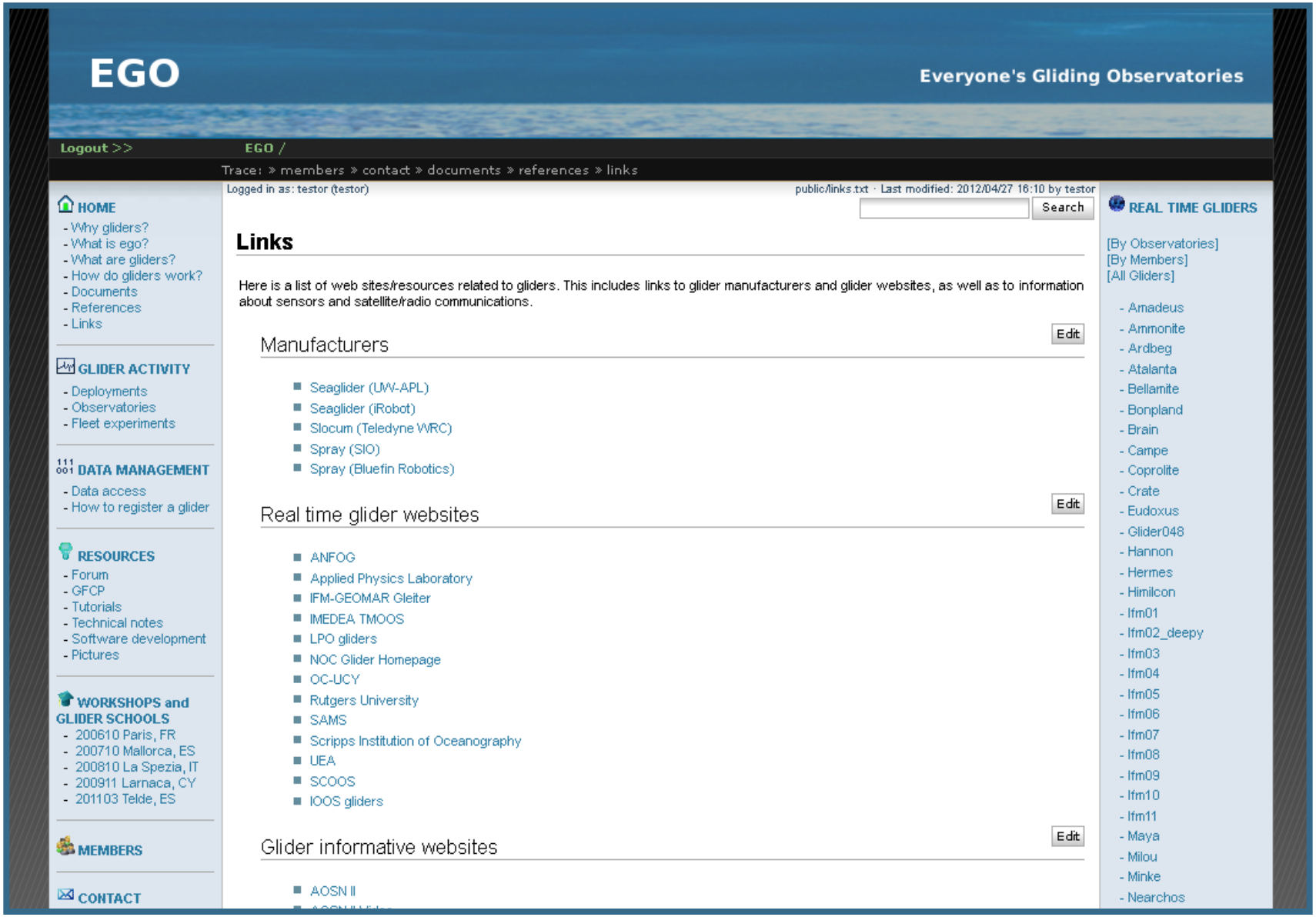
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Here is a list of web sites/resources related to gliders. This includes links to glider manufacturers and glider websites, as well as to information about sensors and satellite/radio communications.
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Seaglider (UW-APL)
Seaglider (iRobot)
Slocum (Teledyne WRC)
Spray (SIO)
Spray (Bluefin Robotics)
Edit
Real time glider websites
ANFOG
Applied Physics Laboratory
IFM-GEOMAR Gleiter
IMEDEA TMOOS
LPO gliders
NOC Glider Homepage
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Search

## Glider activity

### Gliders at sea

Edit

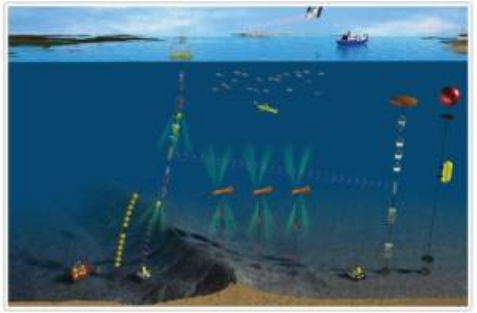
The glider activity at sea is here monitored at the global scale thanks to information provided by the glider operators (see How to register a glider). One can search through all the deployments registered in EGO and sort them according to dates, regions, glider types or names. In addition, we highlight some areas (observatories) where gliders are regularly deployed as well as, fleet ("swarm") experiments with several gliders operating simultaneously in the same area with a common scientific objective.

- Table of 'EGO' deployments
- Observatories
- Fleet experiments

### Research projects

Edit

One could only witness the growing glider activity throughout the world since the pioneer deployments in the late 1990s. Worth mentioning are an impressive glider fleet demonstration which was carried out in 2003 in the framework of the experiment Autonomous Ocean Sampling Network (AOSN) II and several endurance lines that started to be maintained on both the West and East coasts of the USA. This activity has been growing in the USA since then, and in particular recently in the framework of the Integrated Ocean Observing System (IOOS). In 2004, in parallel to the development of the glider activity in the USA, the first European glider experiments were carried out in the framework of the European project MFSTEP of the Fifth Framework Programme (FP5). Later, the European FP6 p



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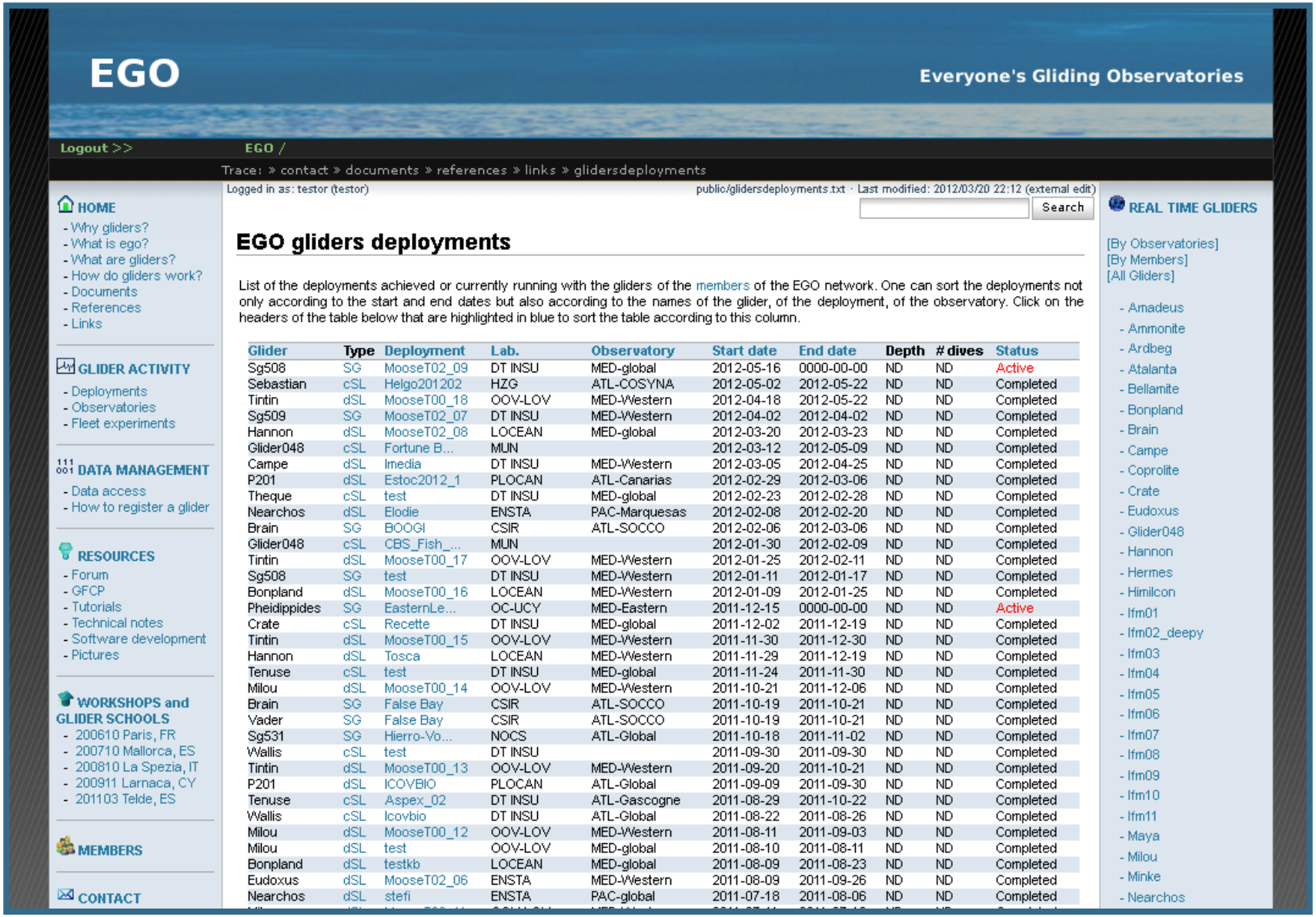
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EGO gliders deployments
List of the deployments achieved or currently running with the gliders of the members of the EGO network. One can sort the deployments not only according to the start and end dates but also according to the names of the glider, of the deployment, of the observatory. Click on the headers of the table below that are highlighted in blue to sort the table according to this column.
Glider Type Deployment Lab. Observatory Start date End date Depth # dives Status
Sg508 SG MooseT02_09 DT INSU MED-global 2012-05-16 0000-00-00 ND ND Active
Sebastian cSL Helgo201202 HZG ATL-COSYNA 2012-05-02 2012-05-22 ND ND Completed
Tintin dSL MooseT00_18 OOV-LOV MED-Western 2012-04-18 2012-05-22 ND ND Completed
Sg509 SG MooseT02_07 DT INSU MED-Western 2012-04-02 2012-04-02 ND ND Completed
Hannon dSL MooseT02_08 LOCEAN MED-global 2012-03-20 2012-03-23 ND ND Completed
Glider048 cSL Fortune B... MUN 2012-03-12 2012-05-09 ND ND Completed
Campe dSL Imedia DT INSU MED-Western 2012-03-05 2012-04-25 ND ND Completed
P201 dSL Estoc2012_1 PLOCAN ATL-Canarias 2012-02-29 2012-03-06 ND ND Completed
Theque cSL test DT INSU MED-global 2012-02-23 2012-02-28 ND ND Completed
Nearchos dSL Elodie ENSTA PAC-Marquesas 2012-02-08 2012-02-20 ND ND Completed
Brain SG BOOGI CSIR ATL-SOCCO 2012-02-06 2012-03-06 ND ND Completed
Glider048 cSL CBS_Fish_... MUN 2012-01-30 2012-02-09 ND ND Completed
Tintin dSL MooseT00_17 OOV-LOV MED-Western 2012-01-25 2012-02-11 ND ND Completed
Sg508 SG test DT INSU MED-Western 2012-01-11 2012-01-17 ND ND Completed
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Pheidippides SG EasternLe... OC-UCY MED-Eastern 2011-12-15 0000-00-00 ND ND Active
Crate cSL Recette DT INSU MED-global 2011-12-02 2011-12-19 ND ND Completed
Tintin dSL MooseT00_15 OOV-LOV MED-Western 2011-11-30 2011-12-30 ND ND Completed
Hannon dSL Tosca LOCEAN MED-Western 2011-11-29 2011-12-19 ND ND Completed
Tenuse cSL test DT INSU MED-global 2011-11-24 2011-11-30 ND ND Completed
Milou dSL MooseT00_14 OOV-LOV MED-Western 2011-10-21 2011-12-06 ND ND Completed
Brain SG False Bay CSIR ATL-SOCCO 2011-10-19 2011-10-21 ND ND Completed
Vader SG False Bay CSIR ATL-SOCCO 2011-10-19 2011-10-21 ND ND Completed
Sg531 SG Hierro-Vo... NOCS ATL-Global 2011-10-18 2011-11-02 ND ND Completed
Wallis cSL test DT INSU 2011-09-30 2011-09-30 ND ND Completed
Tintin dSL MooseT00_13 OOV-LOV MED-Western 2011-09-20 2011-10-21 ND ND Completed
P201 dSL ICOVBIO PLOCAN ATL-Global 2011-09-09 2011-09-30 ND ND Completed
Tenuse cSL Aspex_02 DT INSU ATL-Gascogne 2011-08-29 2011-10-22 ND ND Completed
Wallis cSL Icovbio DT INSU ATL-Global 2011-08-22 2011-08-26 ND ND Completed
Milou dSL MooseT00_12 OOV-LOV MED-Western 2011-08-11 2011-09-03 ND ND Completed
Milou dSL test OOV-LOV MED-global 2011-08-10 2011-08-11 ND ND Completed
Bonpland dSL testkb LOCEAN MED-global 2011-08-09 2011-08-23 ND ND Completed
Eudoxus dSL MooseT02_06 ENSTA MED-Western 2011-08-09 2011-09-26 ND ND Completed
Nearchos dSL stefi ENSTA PAC-global 2011-07-18 2011-08-06 ND ND Completed
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Trace: » documents » references » links » glidersdeployments » observatories

Logged in as: testor (testor) public/observatories.txt · Last modified: 2012/03/19 15:50 (external edit)

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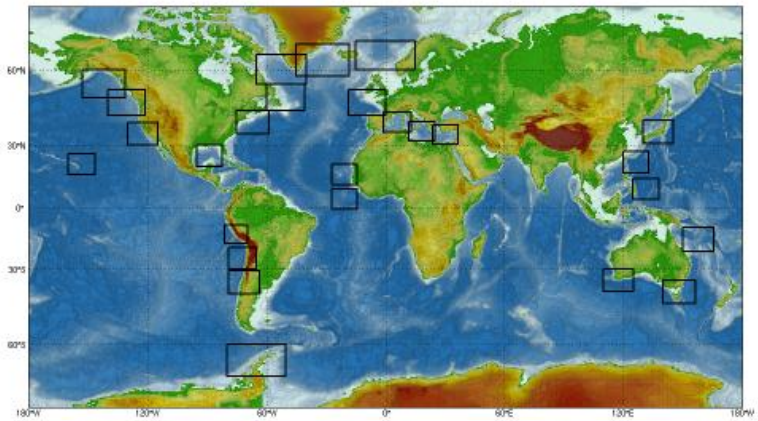
## Observatories

Here, we present short descriptions of glider experiments sorted by regions and provide links to glider projects. Boxes below are about 1000kmx1000km and show where gliders projects have been carried out. They show areas where gliders have been already deployed at least once but they can also correspond to more sustained glider actions which are carried out in the framework of "observatories" or long-term time series acquisition projects that are so important for oceanographic research.

Please, choose your region of interest to get more information:



or follow the links below:

**ANT-Global**
- ANT-GENTOO
- ANT-Rutgers
- ANT-SOCCO

**ATL-Global**
- ATL-Biscaye
- ATL-Canarias
- ATL-COSYNA
- ATL-DBOMZ
- ATL-FSO

**ATL-Tropical**
- ATL-CaboVerde
- ATL-Equator

**IND-Global**
- IND-Australia
- IND-CINDY

**MED-global**
- MED-Central
- MED-Eastern
- MED-Western

**PAC-global**
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- PAC-Chile
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- PAC-Kuroshio
- PAC-Marquesas

Ot

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public/experiments.txt · Last modified: 2011/12/15 04:02 by testor

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## Fleet experiments

EGO2007 in the Western Mediterranean Sea.

EGO2008 in the Western Mediterranean Sea.

EYE EXPERIMENT in the Eastern Mediterranean Sea.

SWARM01 near the Cabo Verde islands.

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public/data.txt · Last modified: 2012/01/22 18:04 by mortier

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## Data management

The EGO gliders can now appear at the Global Data Assembly Center Coriolis (see EGO-gliders) like the other components of the Global Ocean Observing System (GOOS). A draft of a glider data management is available (see EGO-Glider-data-management) based on what has been designed for the Argo data management and the data quality control is now being extended from Temperature and Salinity to Fluorescence (ChlA) and Oxygen profiles as well (see PABIM: status of the biogeochemical oceanic observations performed with autonomous platforms)

- data access and download
- How to register a glider

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## Glider data in the GOOS: last 30 days

automatic update of a global map showing the locations of the EGO gliders profiles of the last month:


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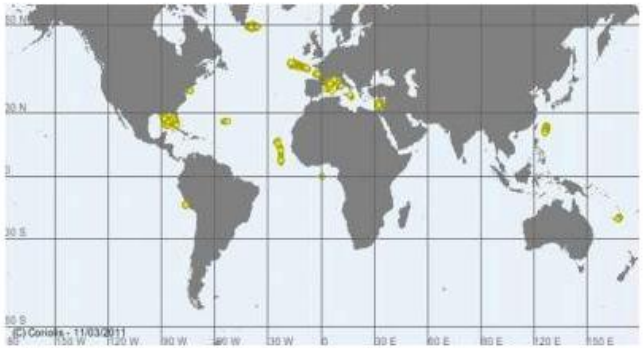
## Data access and download

Glider data can be visualized by browsing the right column of this site or through the section Glider Activity.

Glider data can be downloaded thanks to the Coriolis Data Centre through a data selection interface or directly via ftp or http. Kmz files for glider profiles geolocalisation are also available there:

- All available profiles
- 2010 profiles
- 2009 profiles

Edit

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## Glider registration

The EGO website can help with the outreach of your deployments by simply advertising your glider activity here, display your glider data or even help you piloting your glider over the www. There are 3 options, depending on how you register your glider deployments :

1. A relatively simple form to add a glider/deployment would have to be filled for your deployment to be advertised in our EGO website. Basic elements such as the glider name, deployment name, (planned) start/end dates, region of the deployment, are the minimum metadata for a convenient management of the information and advertisement of your glider activity. Note, once a deployment is 'started', your glider will blink red (until it is 'stopped') in the right column of this web site.
2. Further information would have to be provided in case you want to use the EGO servers to display your gliders data (seaglider, slocum, or spray) in real-time or in delayed mode. This option makes use of the Glider Fleet Control Panel (GFCP). The raw data would have to be available via ftp, email, or ssh to our EGO servers. This could also be done through the Coriolis glider ftp site where you can regularly upload your glider data (see 'data delivery' below).
3. A more advanced configuration would be required in case you would like to use the EGO website not only to display your seaglider, slocum, or spray data in real time but also to pilot your gliders. This option makes also use of the Glider Fleet Control Panel (GFCP) . For the piloting tools to be operational, we would need to establish a link (via email, ssh, or ftp) between the computer you have set up to communicate with your gliders (your basestation, dockserver or groundstation respectively) and the EGO web server.

Do not hesitate to contact us if you need any assistance with option 1.

You will have to contact us if you consider the options 2 or 3.

Edit

## Data delivery

We advocate the delivery of the glider data in real time to global data centers. This is very important to maximize the visibility of your glider deployments and the scientific impact of the data collected, in particular in the context of ocean analysis and forecasts with numerical models which assimilate near real time data to improve their skill. In addition, this is a remote backup solution which guarantees data are never lost.

This page at Coriolis describes the procedure on how to provide your glider data in the GDAC Coriolis. The procedure is summarized below and concerns glider raw ascii data and logs. Data can be pushed to Coriolis ftp server.

FTP server address

- ftp eftp.ifremer.fr
- Contact codac@ifremer.fr or us for user name and password.

Glider data submission directory structure


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[By Observatories]
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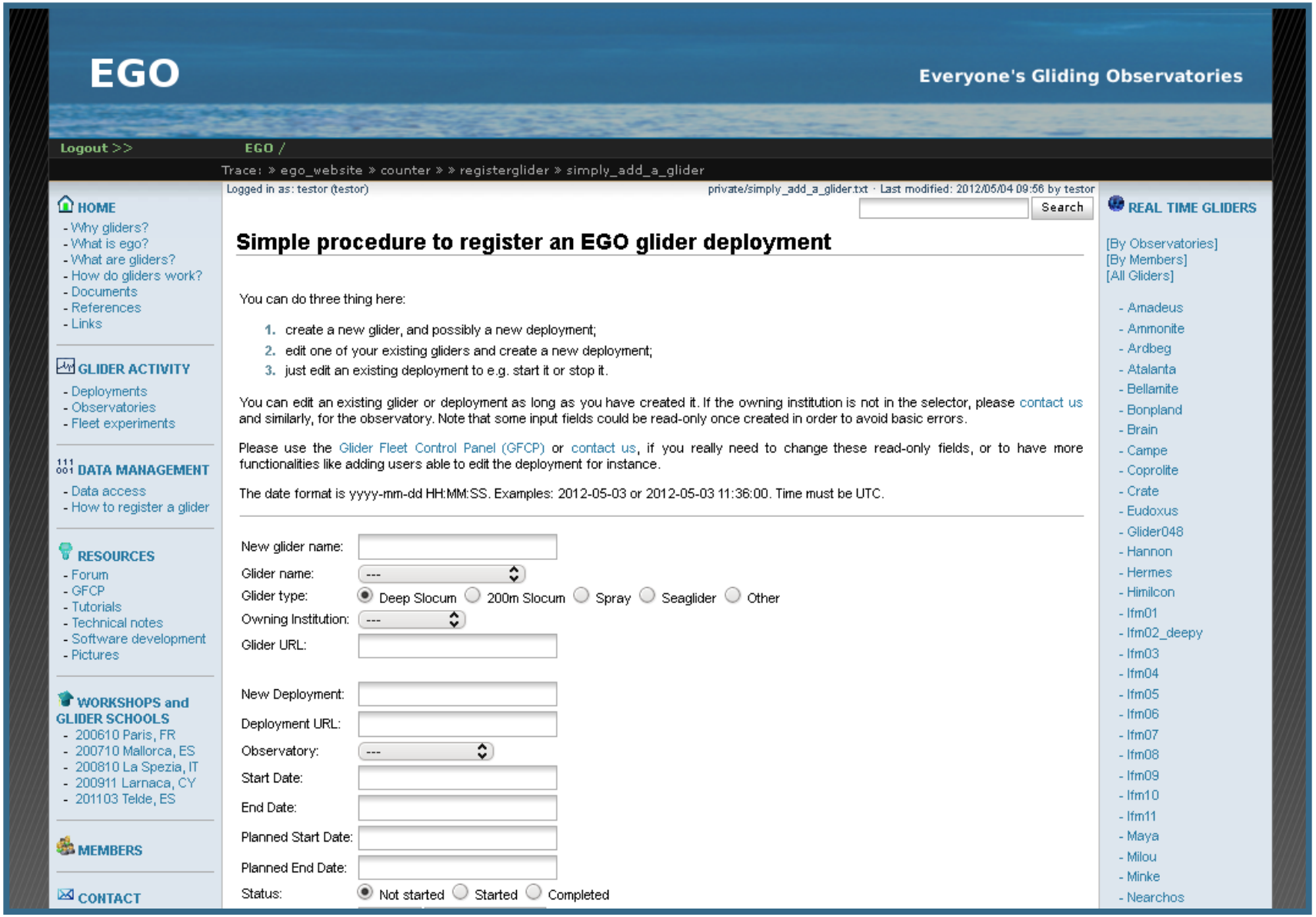
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Trace: » ego_website » counter » » registerglider » simply_add_a_glider
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private/simply_add_a_glider.txt · Last modified: 2012/05/04 09:56 by testor
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Simple procedure to register an EGO glider deployment
You can do three thing here:
1. create a new glider, and possibly a new deployment;
2. edit one of your existing gliders and create a new deployment;
3. just edit an existing deployment to e.g. start it or stop it.
You can edit an existing glider or deployment as long as you have created it. If the owning institution is not in the selector, please contact us and similarly, for the observatory. Note that some input fields could be read-only once created in order to avoid basic errors.
Please use the Glider Fleet Control Panel (GFCP) or contact us, if you really need to change these read-only fields, or to have more functionalities like adding users able to edit the deployment for instance.
The date format is yyyy-mm-dd HH:MM:SS. Examples: 2012-05-03 or 2012-05-03 11:36:00. Time must be UTC.
New glider name:
Glider name: ---
Glider type: Deep Slocum 200m Slocum Spray Seaglider Other
Owning Institution: ---
Glider URL:
New Deployment:
Deployment URL:
Observatory: ---
Start Date:
End Date:
Planned Start Date:
Planned End Date:
Status: Not started Started Completed
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# Resources

Here one can find information about the glider technology with details on both hardware and software (note that a login/password may be required to access to some resources), useful links and some references on glider technology, sensors, and networks and experiments. This database has to be often upgraded. Please, browse this information and send us comments/updates/add-ons via email.

## EGO Community

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- Forum
- Glider Fleet Control Panel (GFCP)
- Tutorials
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- Job announcements
- Yahoo Group "autonomousgliders"
- (Phone directory N/A)


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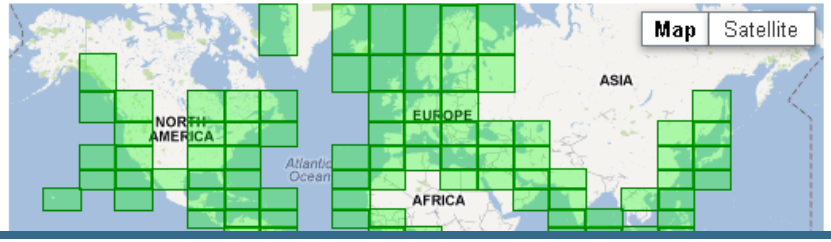
- Weather and wave forecasts
- Maritime traffic - AIS. Click on the map below to zoom into your favorite area and see real time maritime traffic (one can get a .kmz file from marinetraffic.com, but is is sometimes not available...).





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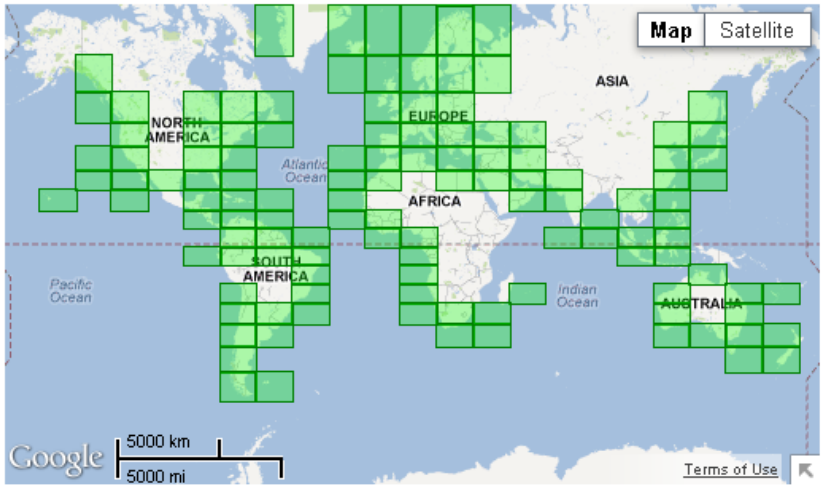


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## Gliderports

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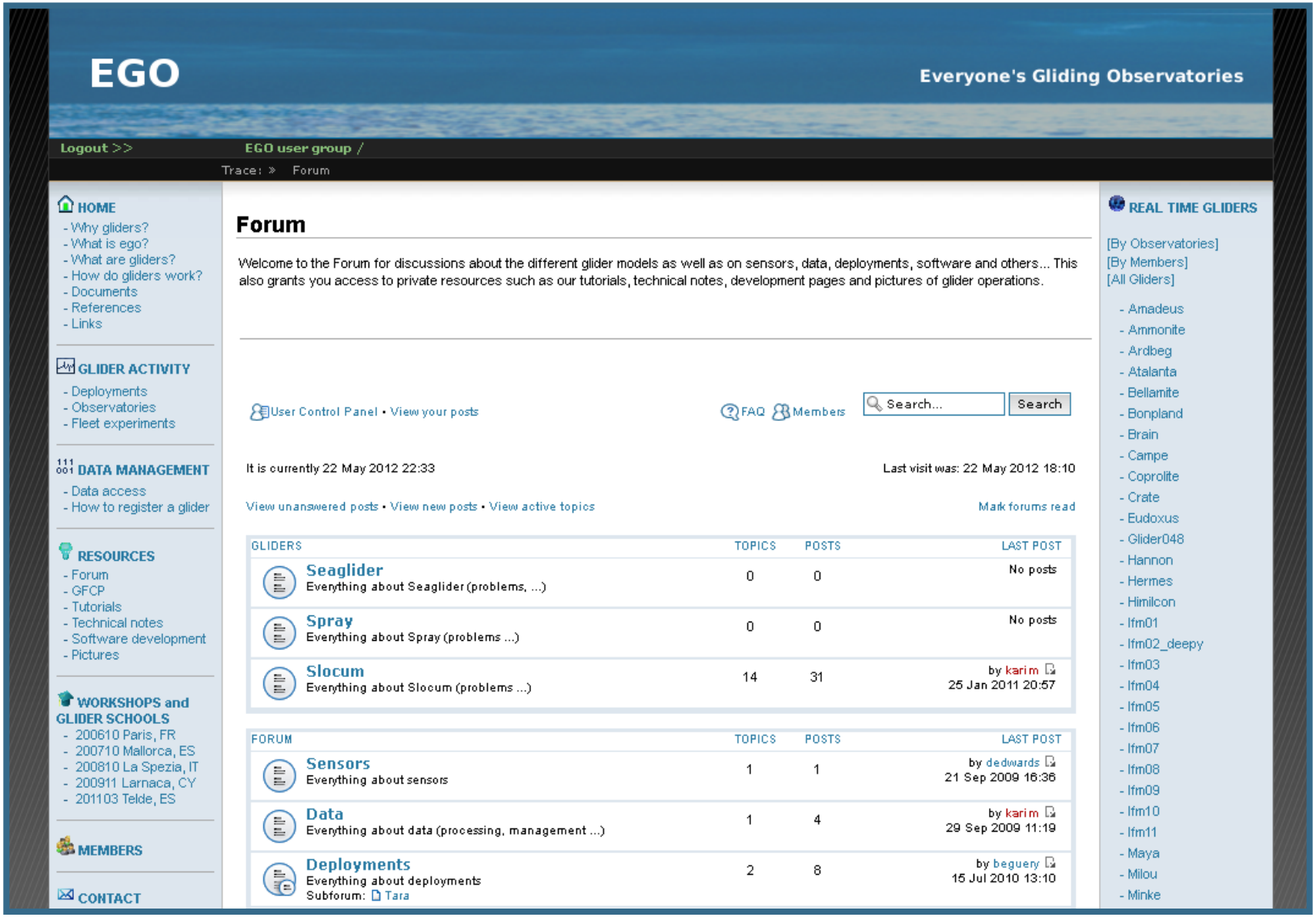
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Everything about Seaglider (problems, ...)
0 0 No posts
Spray
Everything about Spray (problems ...)
0 0 No posts
Slocum
Everything about Slocum (problems ...)
14 31 by karim 25 Jan 2011 20:57
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Everything about sensors
1 1 by dedwards 21 Sep 2009 16:36
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1 4 by karim 29 Sep 2009 11:19
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Everything about deployments
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2 8 by beguery 15 Jul 2010 13:10
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| GLIDERS | TOPICS | POSTS | LAST POST |
|---|---|---|---|
| **Seaglider**<br>Everything about Seaglider (problems, ...) | 0 | 0 | No posts |
| **Spray**<br>Everything about Spray (problems ...) | 0 | 0 | No posts |
| **Slocum**<br>Everything about Slocum (problems ...) | 14 | 31 | by karim<br>25 Jan 2011 20:57 |

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|---|---|---|---|
| **Sensors**<br>Everything about sensors | 1 | 1 | by dedwards<br>21 Sep 2009 16:36 |
| **Data**<br>Everything about data (processing, management ...) | 1 | 4 | by karim<br>29 Sep 2009 11:19 |
| **Deployments**<br>Everything about deployments<br>Subforum: Tara | 2 | 8 | by beguery<br>15 Jul 2010 13:10 |
| **Software**<br>Everything about software | 2 | 5 | by lucas<br>27 Sep 2010 10:20 |
| **Miscellaneous**<br>Everything which does not fit above | 1 | 3 | by testor<br>07 Mar 2012 12:50 |
| **REI** | 5 | 8 | by karim<br>12 Jan 2010 14:55 |

## STATISTICS

Total posts 60 • Total topics 26 • Total members 128 • Our newest member mei

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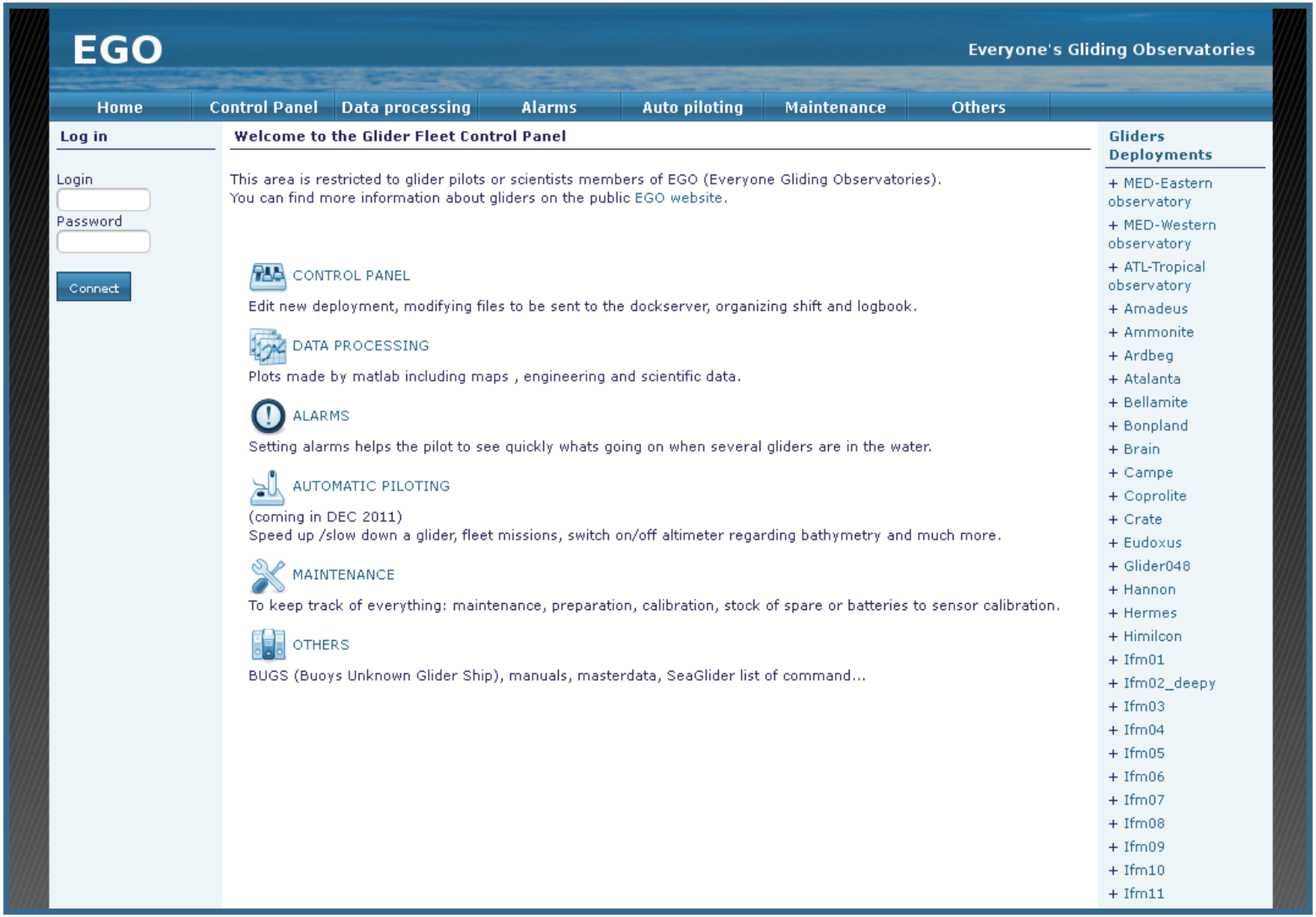
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Welcome to the Glider Fleet Control Panel
This area is restricted to glider pilots or scientists members of EGO (Everyone Gliding Observatories).
You can find more information about gliders on the public EGO website.
CONTROL PANEL
Edit new deployment, modifying files to be sent to the dockserver, organizing shift and logbook.
DATA PROCESSING
Plots made by matlab including maps , engineering and scientific data.
ALARMS
Setting alarms helps the pilot to see quickly whats going on when several gliders are in the water.
AUTOMATIC PILOTING
(coming in DEC 2011)
Speed up /slow down a glider, fleet missions, switch on/off altimeter regarding bathymetry and much more.
MAINTENANCE
To keep track of everything: maintenance, preparation, calibration, stock of spare or batteries to sensor calibration.
OTHERS
BUGS (Buoys Unknown Glider Ship), manuals, masterdata, SeaGlider list of command...
Gliders Deployments
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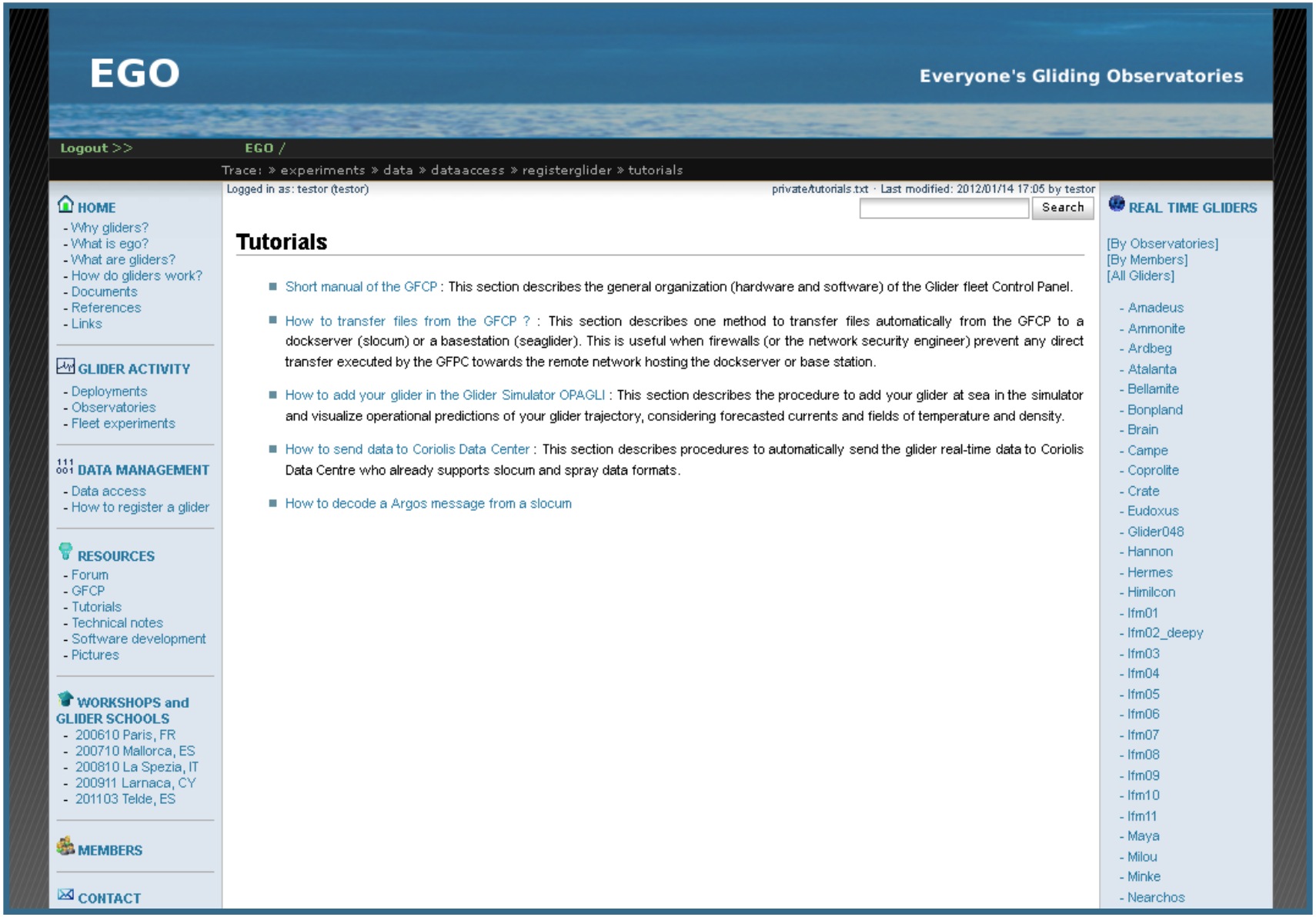
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private/tutorials.txt · Last modified: 2012/01/14 17:05 by testor
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How to transfer files from the GFCP ? : This section describes one method to transfer files automatically from the GFCP to a dockserver (slocum) or a basestation (seaglider). This is useful when firewalls (or the network security engineer) prevent any direct transfer executed by the GFPC towards the remote network hosting the dockserver or base station.
How to add your glider in the Glider Simulator OPAGLI : This section describes the procedure to add your glider at sea in the simulator and visualize operational predictions of your glider trajectory, considering forecasted currents and fields of temperature and density.
How to send data to Coriolis Data Center : This section describes procedures to automatically send the glider real-time data to Coriolis Data Centre who already supports slocum and spray data formats.
How to decode a Argos message from a slocum
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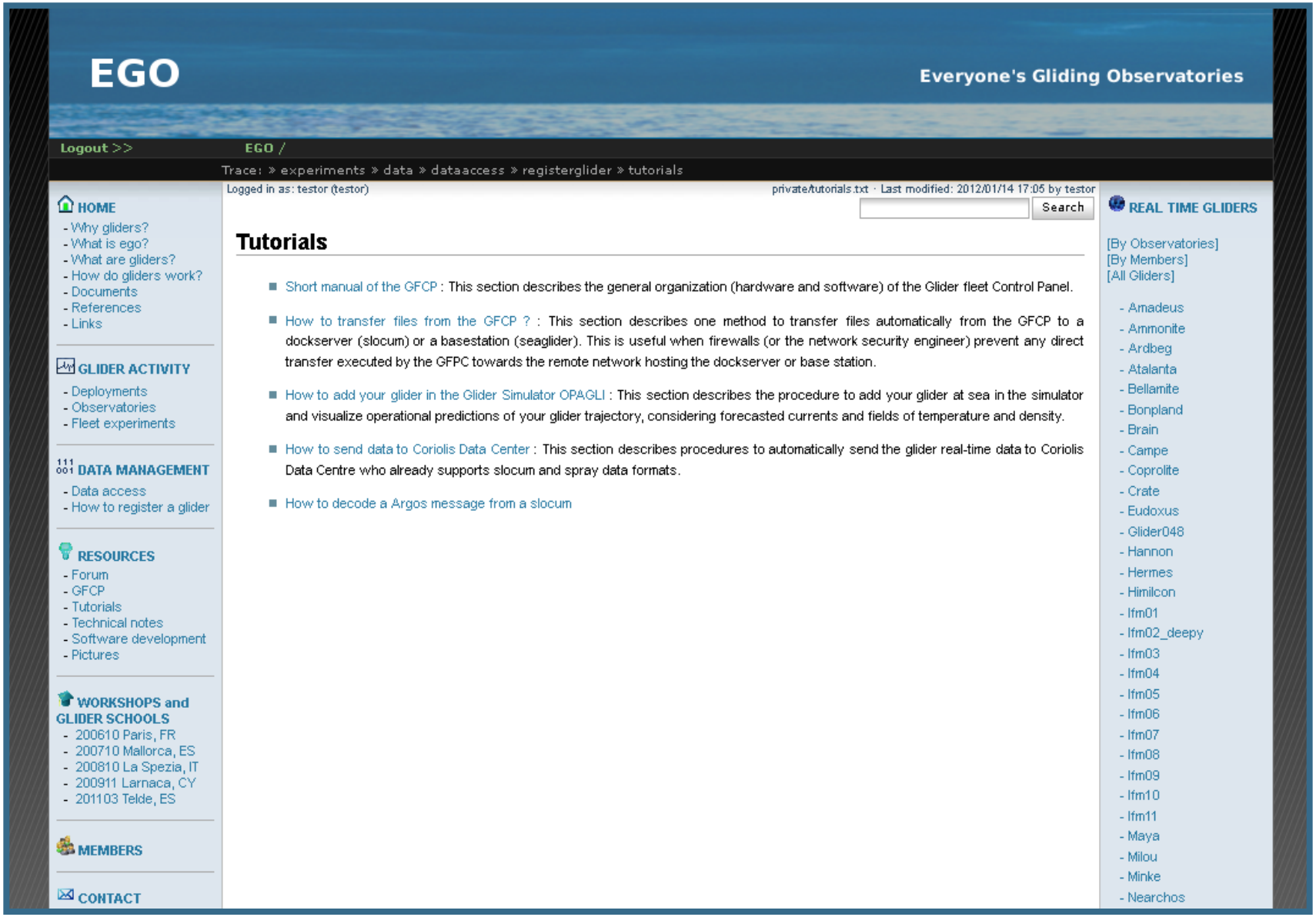
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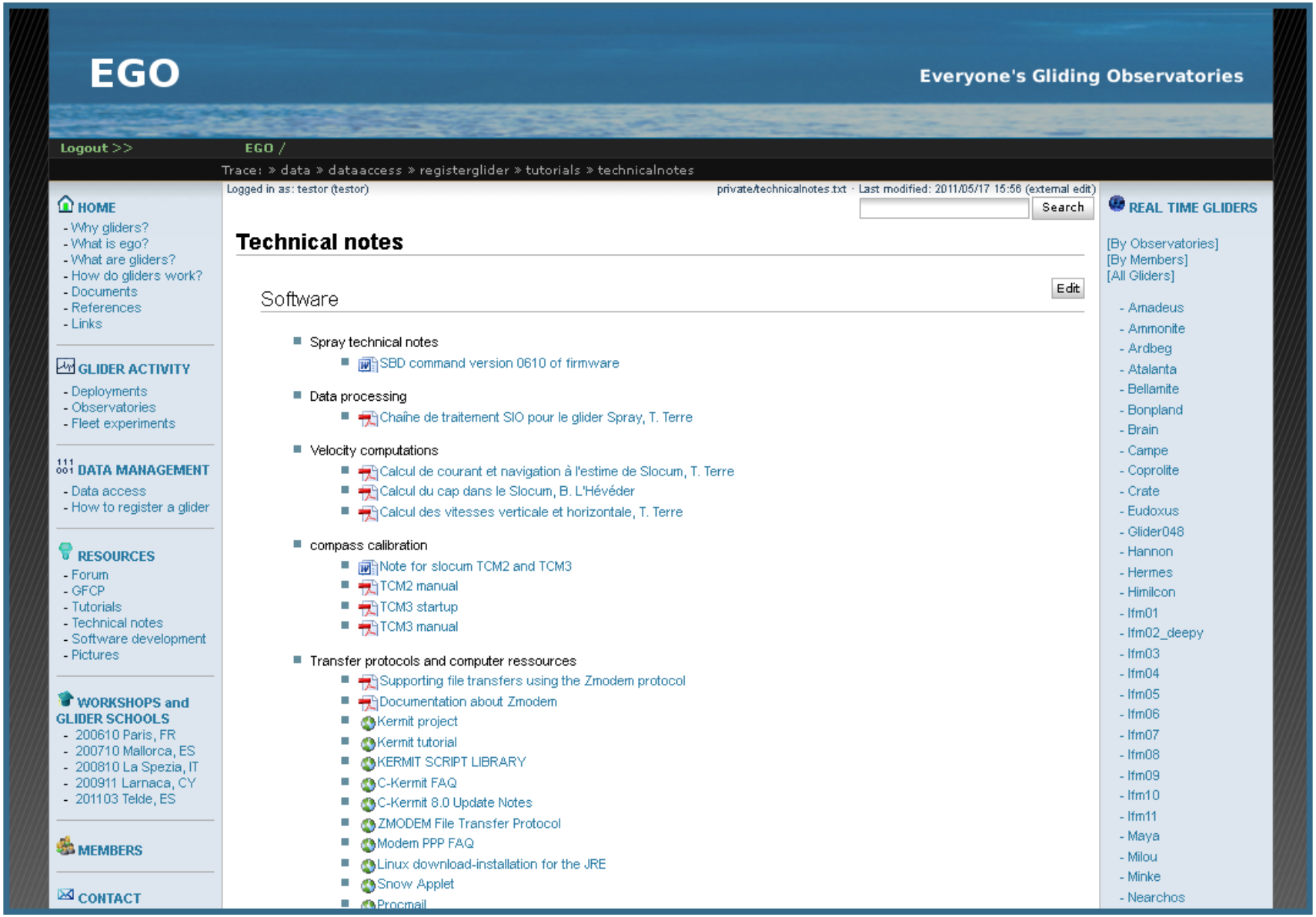
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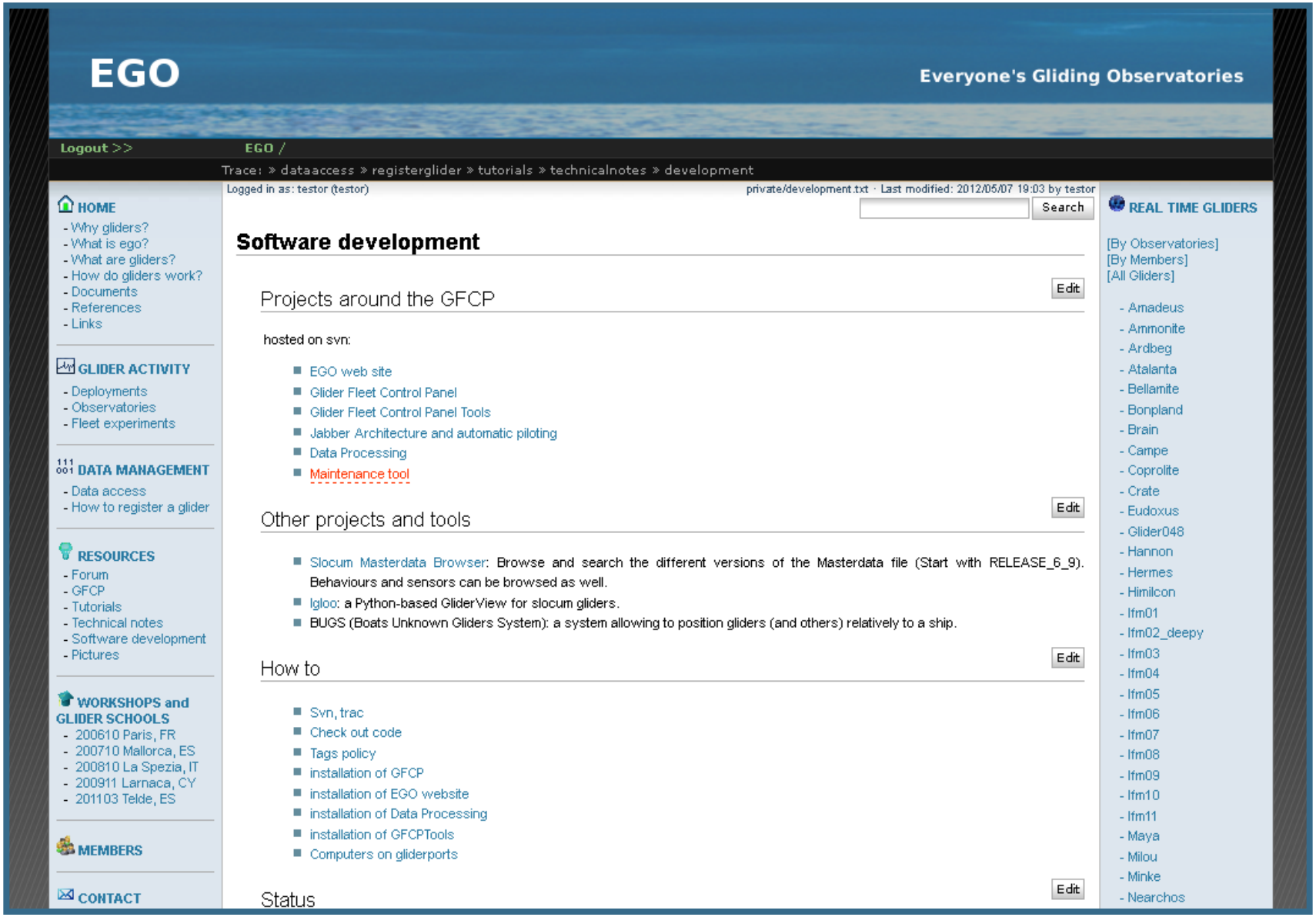
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Igloo: a Python-based GliderView for slocum gliders.
BUGS (Boats Unknown Gliders System): a system allowing to position gliders (and others) relatively to a ship.
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# EGO Workshops and Glider Schools

EGO Workshops (including "Glider Schools") are organized every 1-1.5 year to present and discuss both scientific and technological issues. **Location and dates for the next (6th) EGO meeting are still to be defined but it will likely be organized in Summer 2013.**

Below a summary of past events:

- 5th EGO Workshop and Glider School, PLOCAN, Gran Canaria, March 2011. Restricted, organization area
- 4th EGO Workshop and Glider School, Larnaca, Cyprus, November 2009. Restricted, organization area
- 3rd EGO Workshop and Glider School, La Spezia, Italy, October 2008.
- 2nd EGO Workshop and Glider School, Palma de Mallorca, Spain, October 2007.
- 1st EGO Workshop, Paris, France, October 2006.


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## Members

List of EGO members (institutions, contacts, and adresses):

| | | |
|---|---|---|
| AWI | AWI<br>(A. Beszczynska-Möller et al.) | Stiftung Alfred-Wegener-Institut für Polar und Meeresforschung<br>Fachbereich KlimasystemPostfach 120161, D-27515 Bremerhaven |
| | BCCR<br>(Svein Østerhus et al.) | Bjerknes Centre for Climate Research<br>Allegt. 55<br>N-5007 Bergen, Norway |
| CSIR | CSIR<br>(Council for Scientific and Industrial Research in South Africa) | CSIR Natural Resources and the Environment<br>P.O. Box 320<br>Stellenbosch 7599<br>South Africa |
| | DISAM<br>(E. Zambianchi et al.) | Università degli Studi di Napoli Parthenope<br>Dipartimento di Scienze per l'Ambiente<br>Centro Direzionale di Napoli - Isola C4<br>80143 - Napoli<br>Italy |
| INSU | DT INSU<br>(Laurent Beguery et al.) | Division Technique de l'INSU<br>Zone du Brégaillon<br>La Seyne sur Mer |
| ENSTA | ENSTA<br>(Laurent Mortier et al.) | Ecole Nationale Supérieure de techniques Avancées<br>Unité de Mécanique<br>32 Bd Victor, 75015 Paris, France |
| Helmholtz-Zentrum Geesthacht | HZG<br>(Institute of Coastal Research) | Helmholtz-Zentrum Geesthacht<br>Max-Planck-Straße 1<br>21502 Geesthacht |
| logo_ifm-geomar.gif | IFM-GEOMAR<br>(Martin Visbeck et al.) | Leibniz-Institut für Meereswissenschaften<br>FB 1: Ozeanzirkulation und Klimadynamik, Physikalische Ozeanographie<br>Düsternbrooker Weg 20, 24105 Kiel, Germany |
| | IMEDEA<br>(Joaquim Tintoré et al.) | Instituto Mediterraneo de Estudios Avanzados<br>C/ Miquel Marques 21, |


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## Contact


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**Email: testor@locean-ipsl.upmc.fr**

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Phone: +49 431 600-4154 ; Fax: +49 431 600-4102

**Email: gkrahmann@ifm-geomar.de**


Please, make CC the webmaster for any email with questions regarding the EGO website.

**Email: webmaster@ego-network.org** .

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# EGO - Action ES0904

cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

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EUROPEAN SCIENCE FOUNDATION

SEVENTH FRAMEWORK PROGRAMME

*Building international cooperation and capacities at the scientific, technological, and organizational levels, for sustained observations of the oceans with gliders*

## Welcome to the COST Action ES0904 website

The COST Action ES0904 is a 'networking' project starting in October 2010 for 3 (4) years. It aims at strengthening the EGO community, and support cooperation between the parties who have signed our Memorandum of Understanding (MoU). It provides the opportunity **to grant student exchanges, travels, meetings, training, and publications** that are related to our glider community activity, here organized in 5 Working Groups.


COST Action ES0904 partner countries

**Official links:**

- COST

**HIGHLIGTHS:**

*Article presenting the COST Action ES0904, to be published in International Innovation*

*Poster presenting the COST Action ES0904*

GROOM

Gliders for Research, Ocean Observation &Management

SEVENTH FRAMEWORK PROGRAMME

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Partner area

Research Infrastructures

Design Study

*A Design Study on a Glider European Research Infrastructure for the benefit of marine research and operational oceanography*

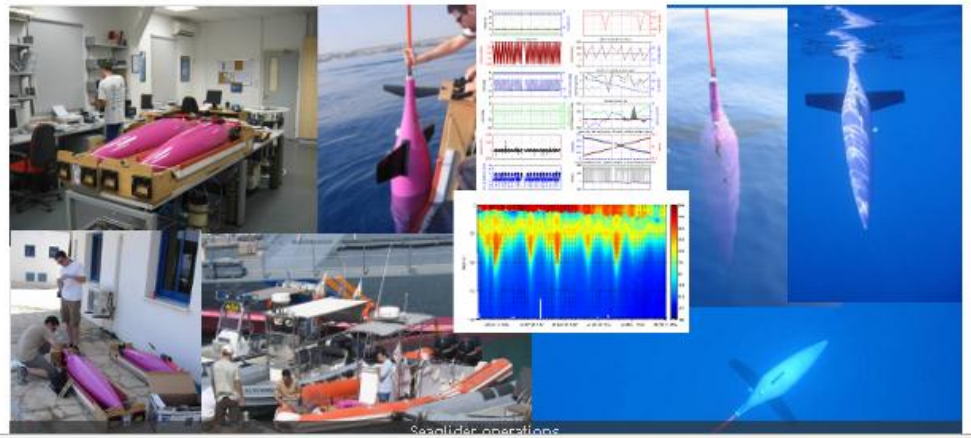
## Welcome to the GROOM website

The objective of the GROOM project is to design a new European Research Infrastructure that uses underwater gliders for collecting oceanographic data. This new infrastructure shall be beneficial for a large number of marine activities and societal applications, which can be related to climate change, marine ecosystems, resources, or security and which rely on academic oceanographic research and/or operational oceanography systems.

GROOM will define the scientific, technological, and legal framework of this European glider capacity.

GROOM is a key project for building the required observatory network that would allow the Marine Strategy Framework Directive to be implemented.

GROOM will develop in line with other European and international initiatives supporting marine in-situ observations, like in particular Euro-Argo, JERICO, and GOOS.



Seaglider operations

### » News

### » GROOM Events

### » Latest articles

GES with repeat-sections -> variability around the mean climatogoly? In each EEZ?
Error bar on the permanent alteration of hydrographic conditions.

Glider european data base -> science (above and other) and technology (discharge curve, better define best practise) -> papers

So many details. Too bad to realize afterwards we were wrong.