

Tasks 3.4 – Enhancement of the Glider network

AtlantOS GA – Side meeting

Partners : BRUNCIN, CNRS, GEOMAR, NERC, PLOCAN, SAMS, UiB

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Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination

Objectives of task 3.4

Enhance the glider community and the glider contribution to the Atlantic Observing system.

Improve/Demonstrate sustainability of the network

Better organize the data flow and data dissemination

Highlighting our capacity to maintain sustainable observatories and contribute to high quality science

Objectives of this meeting

Report on the AtlantOS deliverables progress

update on Atlantic glider groups activities

Report and open discussions on important topics (deliverables, data management, international coordination).

Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination



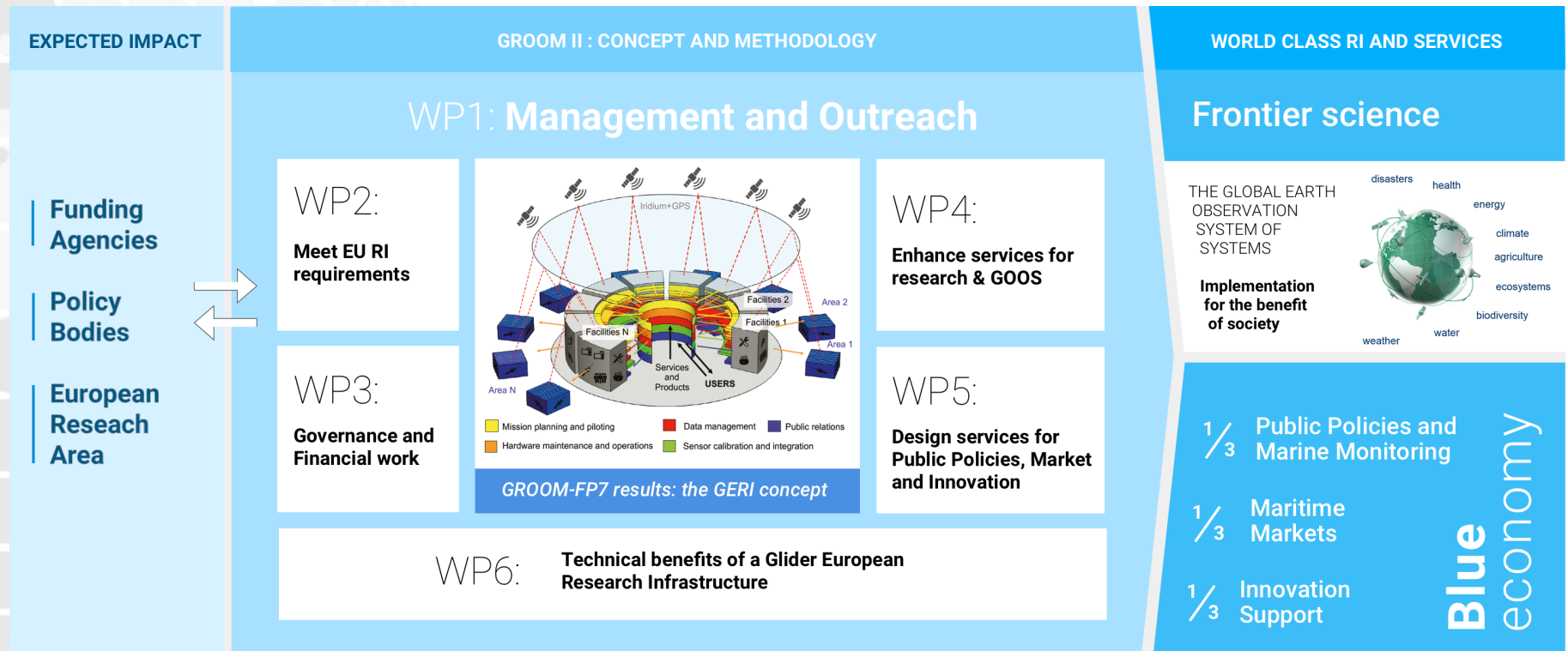
Update on International Coordination

current status of GROOM II :

Project submitted in April 2017 (3M€, 13 partners) – Ranked at 13/15 - 1st on the reserve list

On Going “political” discussions to try to have it funded. Position paper signed by stakeholders.

Main objectives of the project :



Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination



EuroGOOS glider TT

Promotion of the glider group (ToR 1)

Action	Term	Status
ToR and roadmap	IP	
Core group definition, adding strategic members	IP	
Draft an implementation plan for a glider component in the GOOS at the global scale, a common scientific international program for sustained glider observations	ST	
Seek funding for joint/coordination activities	ST	
Interact with existing initiatives in other countries (USA, Australia, South Africa, Mexico, Chile, Peru...)	IP	

Development of standards (ToR 2)

Action	Term	Status
Publish and promote the results of the FP7 GROOM design study (website)	IP	
Promote best practise with gliders, the usage of GROOM standards and formats (website)	ST	
Develop tools for better monitoring the glider data flow	MT	





IP = In Progress ; ST = Short Term < 2 years ; MT = Medium Term > 2years

Tasks 3.4 : « Gliders »





Opening, meeting objectives and quick update on international coordination

EuroGOOS glider TT

Towards providing a framework to glider users (ToR 3)

Action	Term	Status
Create website for the group in the EuroGOOS framework. Organization of the information (topics) in the website (news, links, ...?)	ST	
Repositories for software	ST	
ResearchGate group/topic?	ST	
Organization of the next (7 th) EGO meeting and Glider School in 2016 (and every two years)	ST MT	

Towards the EOOS (Tor 4)

Action	Term	Status
Reporting on existing European and national glider initiatives (work plan, results...)	ST	
Strengthen the network of “gliderports”	IP	
Assess the sustainability of the glider activity. Help partners to join the ESFRI roadmap.	MT	
Identify specific added value products of gliders that can be useful for specific stakeholders	ST	

Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination

EuroGOOS glider TT

We have reached about 80% of our objectives (ToR)

- The two years loop of the Glider Task Team implementation plan



Need for membership and ToR renewals : « Find our place in the middle between « Bottom-Up » and « Top-Down » approaches »

Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination

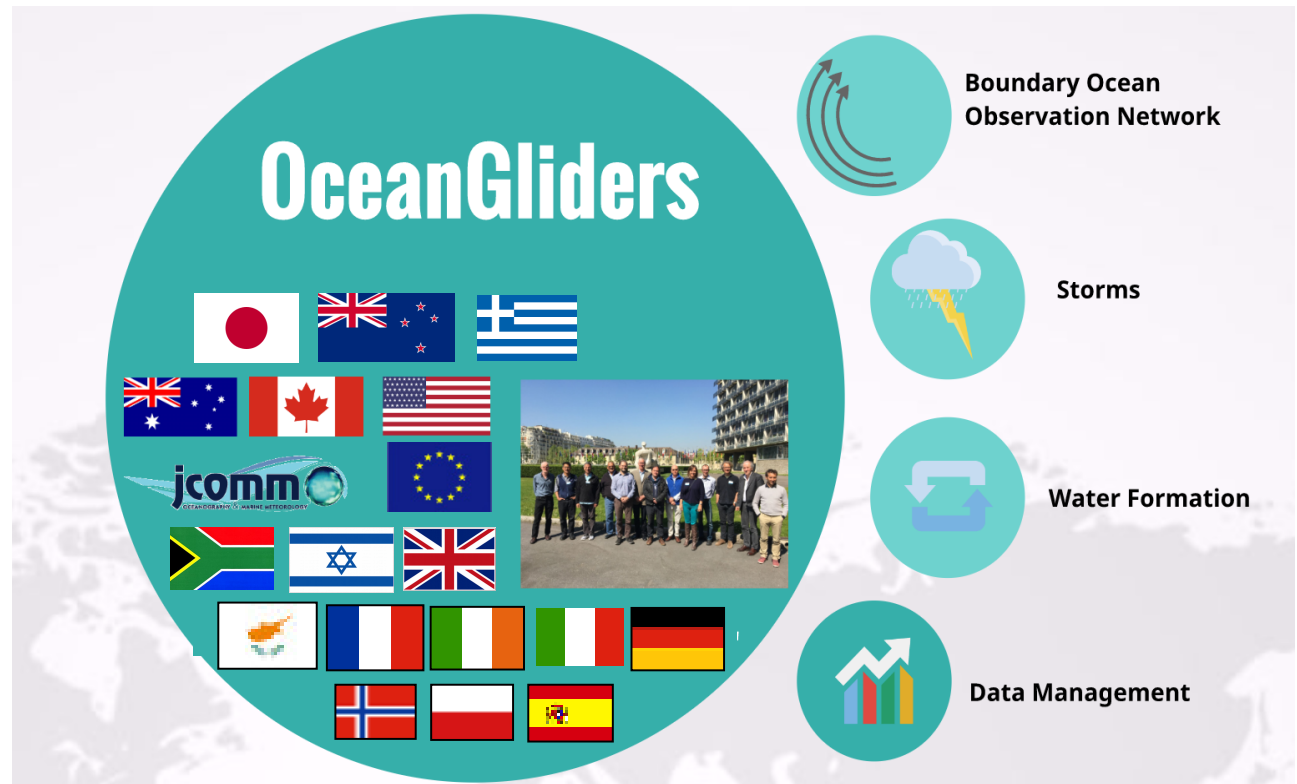
OceanGliders Programme

What is it ?

project approval by JCOMM-V : associated program to the GOOS/GCOS like Argo/OceanSITES/....



Organisation and membership



+ New Task Team proposal : Polar regions

OceanGliders Steering Team

A steering team for the glider component of the GOOS/GCOS has been created with the objectives to:

- strengthen the glider community and facilitate the sustained use of gliders globally
- launch and maintain an international glider program as a component of the GOOS/GCOS
- summarize and report on global glider sustained activities to WMO/IOC JCOMM-OCG

1st meeting of the Glider Steering Team at the 7th EGO conference at NOC, Southampton, UK, 26-29 September 2016

- ToRs agreed
- 'OceanGliders' program name agreed
- G7 discussion
- Formation of 4 Task Teams (TTs)

**Launch of the
OceanGliders program!**



OceanGliders Steering Team

Steering Team:

Pierre Testor, CNRS, France (Chair, Water Transformation TT Leader)

Bradley de Young, Memorial University of Newfoundland, Canada (Co-Chair)

Katherine Hill, WMO (GOOS advisor)

Daniel Rudnick, Scripps Institution of Oceanography, USA (Boundary Currents TT Leader)

Craig Lee, Univ. Washington, USA (Boundary Currents TT Co-Leader)

Scott Glen, Univ. Rutgers, USA (Storms TT Leader)

Charita Pattiaratchi, IMOS, Australia (Storms TT Co-Leader)

Daniel Hayes, Univ. of Cyprus, Cyprus (Data Management TT Leader)

Victor Turpin, CNRS, France (Technical coordinator, Data Management TT Co-Leader)

Mark Inall, SAMS, United Kingdom

Johannes Karstensen, GEOMAR, Germany

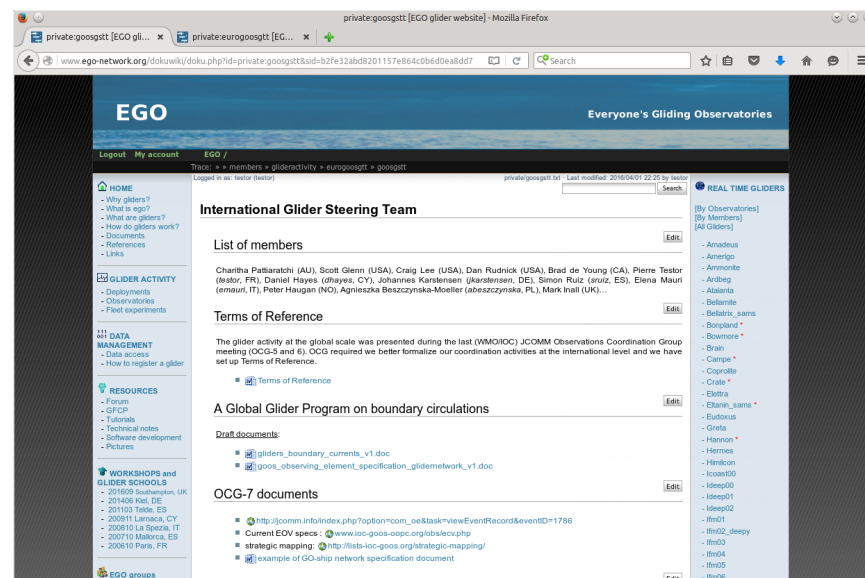
Peter Haugan, Univ. Bergen, Norway

Laurent Mortier, ENSTA-ParisTech, France

David Smeed, NOC, United Kingdom

...

Need to engage !



The screenshot shows a web browser displaying the EGO (Everyone's Gliding Observatories) website. The page is titled "International Glider Steering Team" and lists the following members: Charitha Pattiaratchi (AU), Scott Glenn (USA), Craig Lee (USA), Dan Rudnick (USA), Brad de Young (CA), Pierre Testor (Fr), Daniel Hayes (Cy), Johannes Karstensen (DE), Simon Ruiz (ES), Elena Mauri (I), Peter Haugan (NO), Agnieszka Beszczynska-Moeller (PL), and Mark Inall (UK). The page also includes sections for "Terms of Reference", "A Global Glider Program on boundary circulations", "Draft documents", and "OCG-7 documents". The website header includes the EGO logo and navigation links like "HOME", "GLIDER ACTIVITY", "DATA MANAGEMENT", "RESOURCES", and "WORKSHOPS and GLIDER SCHOOLS".

More info (reports/minutes, documents, presentations) on:
<http://www.ego-network.org/dokuwiki/doku.php?id=public:goosgst>

OceanGliders Steering Team

Based on 2-years mandates, the Steering Team will nominate the Executive Committee (composed of the Chair, the co-Chair, the TT Leaders and the GOOS advisor) and new Steering Team members, based on a limited number of rules related to required expertise and representativeness (in terms of task teams, gender balance and geography).

Executive Committee:

Chair : Pierre Testor

Co-Chair : Bradley De Young

Task Team Leaders : Dan Rudnick, Scott Glenn, Pierre Testor, Dan Hayes, Craig Lee

GOOS advisor : Katherine Hill

OceanGliders TaskTeams

- Boundary Currents (D. Rudnick) Develop a global-scale program for ocean boundary currents
- Storms (S. Glenn/C. Pattiaratchi) Develop a global-scale program for enhanced ocean observations to support forecasts of storms/hurricanes, air-sea interactions
- Water formation (P. Testor) Develop a global-scale program for convective zones
- Data management (D. Hayes) Develop policies and procedures for the collection, processing and management of glider data

Other ideas/suggestions welcome (e.g. Polar regions)

OceanGliders Task Team principles

- Require a proposal approved by OGST
- Include international in membership
- Meet regularly (both virtually and in person)
- Report to the Steering Committee annually
- Present at EGO meetings
- Normally operate within two years (OceanObs'19 = important milestone)
- No money only prestige

OceanGliders last Steering Team meeting

2nd meeting of the OceanGliders Steering Team at UNESCO, Paris, France, 20-21 April 2017

- Governance rules adopted
- Plans for the international/regional communities
- Water Formation TT → Water Transformation TT
- Hurricanes, Storms TT → Storms TT
- A new proposed TT: Polar regions (C. Lee)
- Need for harmonizing TT documents
- G7 discussion continued
- Plans/strategies for engagement in multiplatform design;
- Short Term Action plan agreed → Actions/recommendations



Presentations at:

- US Glider Workshop, Infinity Science Center, MS, 18-19 Jan 2017,
- Canadian Glider Data Management Workshop, Victoria 7-8 Feb 2017,
- EuroGOOS Executive Board meeting, Brussels, Belgium, 7-8 Mar 2017
- Eighth GOOS Regional Forum Meeting, Singapore, Singapore, 5-7 September 2017
- Application of glider technology for sustained oceanographic observations under climate variability and climate change, Lima, Peru, 12-14 November,

Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination



The screenshot shows the website oceangliders.org. At the top, there is a navigation menu with links for OceanGliders, Activities, Task Team, Bibliography, Documents, Events, and Contact. Below the menu is a world map with several red and green markers indicating glider locations. A section titled "Active Gliders" lists several units and their deployment dates. The main content area features a "Welcome to the project OceanGliders" section, followed by a list of objectives and news articles. The "Lastest News" section contains three articles, each with a "Top News picture" and a "See all News" link. The "Next events" section also contains three articles with "Top News picture" and "See all events" links. At the bottom, there is a "Our Partners" section with logos for the Global Ocean Observing System and JCOMM. A newsletter sign-up form and a Twitter follow button are also present.

www.oceangliders.org

Website publicly released by the end of the year

- Real Time glider map
- Task Teams
- Main achievements (outreach)
- bibliography
- event and news advertisement

Tasks 3.4 : « Gliders »

Opening, meeting objectives and quick update on international coordination

Plans for 2018

AtlantOS : Deliverable « report on eastern boundary region » - GEOMAR (August 2018)

AtlantOS : Deliverable « enhancement of the glider network » - CNRS (August 2018)

Engagement of the Northwest Atlantic Contribution

Entry of Canadian glider program in the EGO network (DFO)

Preliminary discussions with OOI. Good link with IOOS.

Engagement of the southern hemisphere contribution to EGO

South Africa, Brazil...

(Australia, New-Zealand, Peru and Chile)

EGO meeting ?

OO19'

Best practices review / update

Abstract opens by the end of the year / close in March 2018

QA/QC white paper

Meetings where Glider Network should be represented ?

Coming calls ?

Tasks 3.4 : « Gliders »
Glider Activity and Data Management (D3.11 - August 2018) - Lead CNRS

Glider teams report on activities / plans / scientific production

SAMS

MARS/NOCS

PLOCAN

GEOMAR

UiB/NACO

CNRS

Tasks 3.4 : « Gliders »

Glider Activity and Data Management (D3.11 - August 2018) - Lead CNRS

EGO contributors agreed on a common NetCDF-CF file format to manage glider metadata and data.

- › *EGO gliders NetCDF format reference manual version 1.2.*
<http://doi.org/10.13155/34980>
- › *EGO gliders Quality Control on time series and profiles data*
<http://doi.org/10.13155/51485>
 - Real-time quality control
 - 14 quality controls derived from Argo real-time QC
- › *Delayed mode quality control*
 - A long work underway
 - Physical parameters
 - BGC parameters
- › *EGO gliders data processing chain* <http://doi.org/10.17882/45402>
- › *EGO gliders NetCDF file format checker* <http://doi.org/10.17882/45538>
- › *EGO gliders DOI services on demand* <http://doi.org/10.17882/51432>

Development of a full chain of Real Time data management services for all gliders in the network to feed all data integrators systems :

GTS, Copernicus Marine Services, EMODNET, SeaDataNet, EGO, OceanGliders

These documents are evolving under the request of glider groups, thanks to the support of Coriolis GDAC

Tasks 3.4 : « Gliders »

Glider Activity and Data Management (D3.11 - August 2018) - Lead CNRS

18 month meeting in Kiel

	registration	DAC	JSON production	EGO format	Diffusion to GDAC	action to take
GEOMAR	not always	Coriolis	???	ok	ok	Make sure we gather all the deployments
PLOCAN	ok	Coriolis	no	no	ok	make data and Json file up to date available to the DAC
SAMS	ok	BODC	ok	no	no	keep pushing to make UK data available
NERC/MARS	no	BODC	no	no	no	keep pushing to make UK data available
UIB	no	UIB	not yet	not yet	no	make sure the UIB is supporting his DAC rôle in the community
CNRS	ok	Coriolis	ok	ok	ok	improve automatisisation of Json production

30 month meeting in PLOCAN

	registration	DAC	metadata management	EGO format	diffusion du DAC	DOI	action to take
GEOMAR	ok	Coriolis	ok	ok	ok	PANGEA	get past deployment / Manage DOI
PLOCAN	ok	Coriolis	ok	ok	ok	?	DOI ?
SAMS	ok	BODC	to be check	not yet	not yet	?	Keep pushing to make UK data available - deadline ? End of the year ? Set up RT data transfer ?
NERC/MARS	recently	BODC	to be check	not yet	not yet	?	
UIB	recently	NMDC	to be check	to be check	to be checked	?	Validate the datasets - Set up RT data transfer
CNRS	ok	Coriolis	ok	ok	ok	SEANOE	real time data from upgraded SeaGlider and Spray

Tasks 3.4 : « Gliders »

Glider Activity and Data Management (D3.11 - August 2018) - Lead CNRS

Glider DOI Strategy

- How does it works ?
How's interested.
- Traceability, compatibility with PANGEA
- Staying tuned with your dataset ?

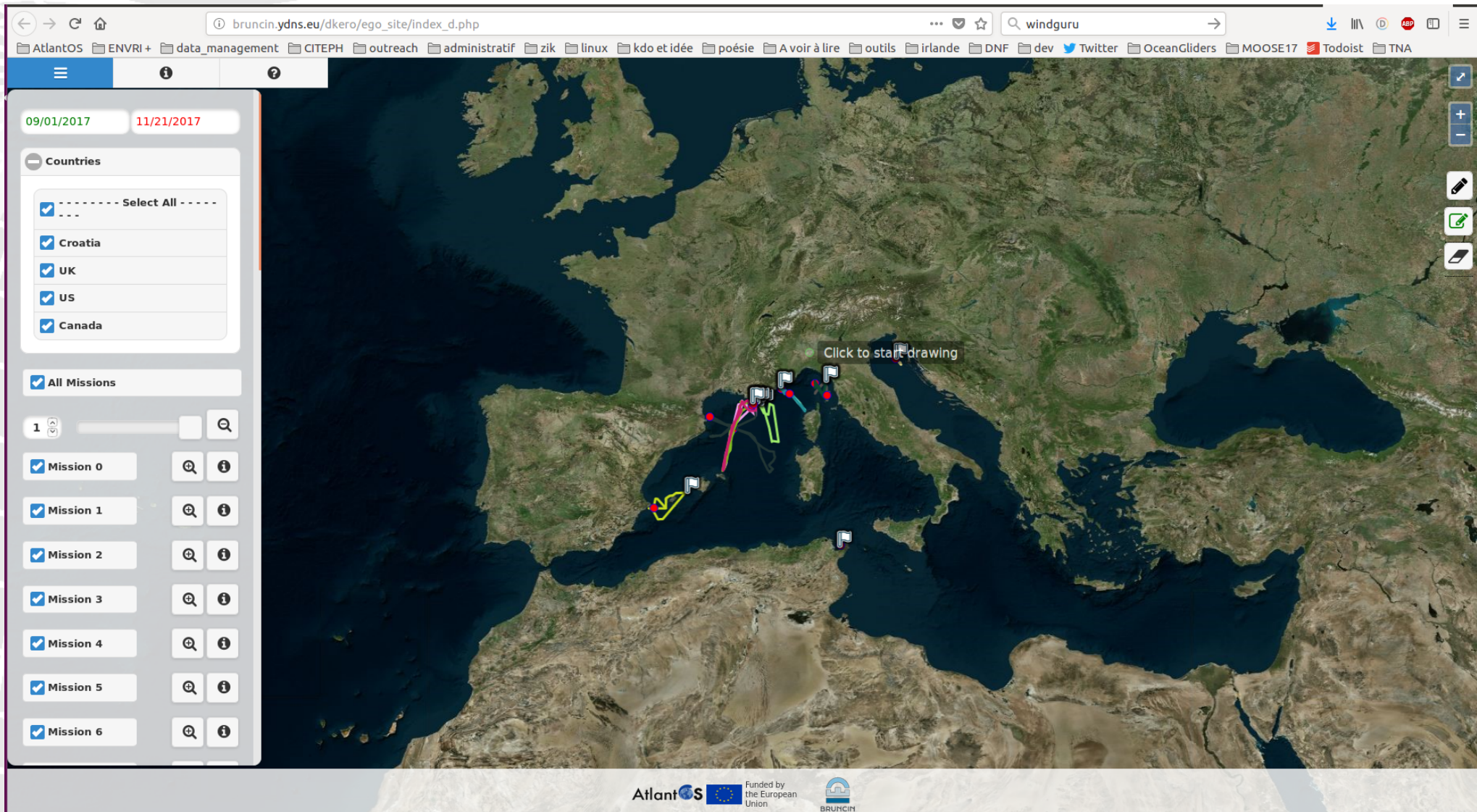
Delayed Mode : Need for a strategy at the network level ?

EGO format V1.3

Tasks 3.4 : « Gliders »

The glider App' - D3.6 August 2017 - Lead BRUNCIN

Glider App' : http://bruncin.ydns.eu/dkero/ego_site/index_d.php



The screenshot shows a web browser displaying the Glider App' interface. The browser's address bar shows the URL `bruncin.ydns.eu/dkero/ego_site/index_d.php`. The interface features a sidebar on the left with the following elements:

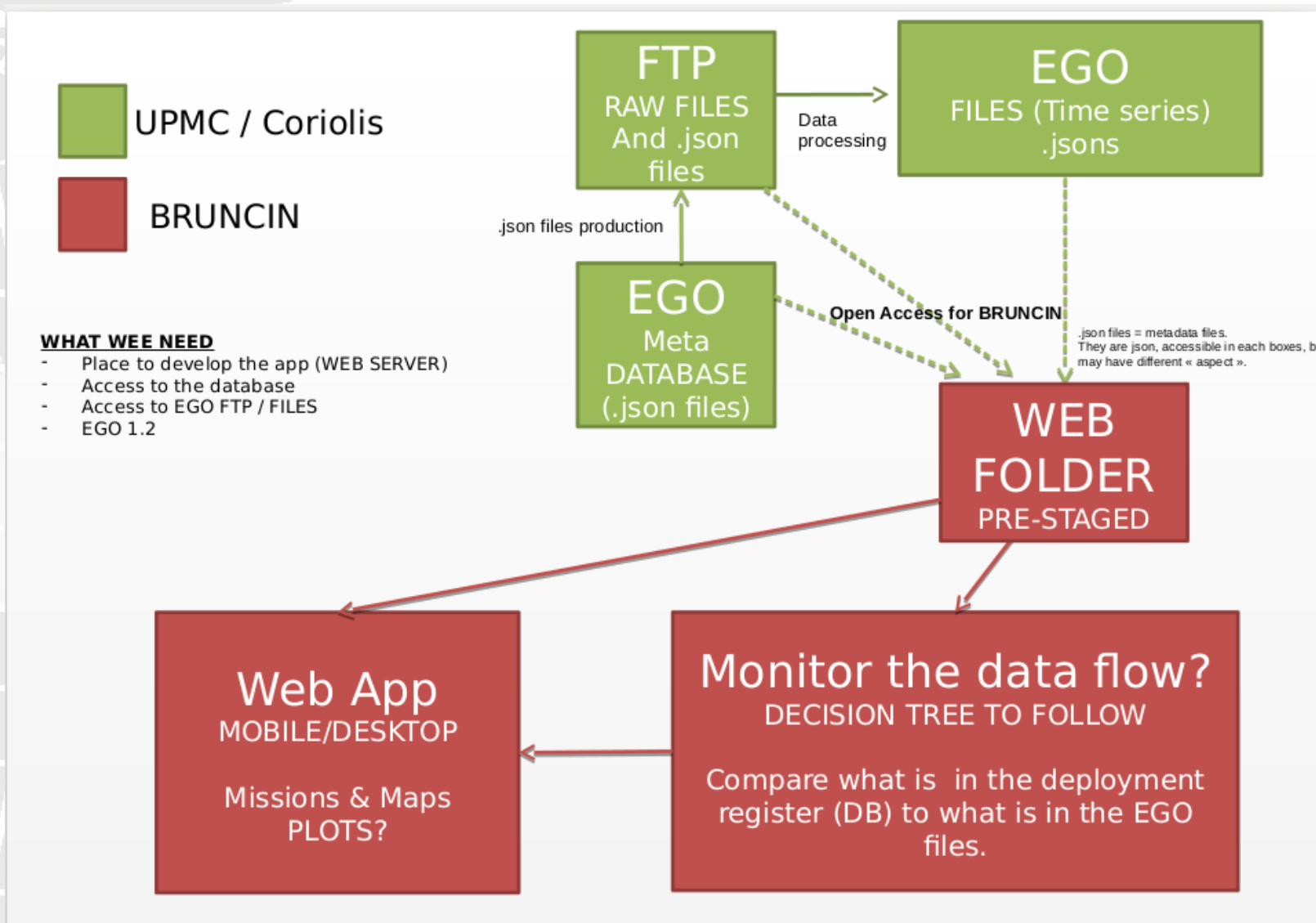
- Date range: 09/01/2017 to 11/21/2017
- Countries filter:
 - Select All
 - Croatia
 - UK
 - US
 - Canada
- All Missions
- Mission list:
 - Mission 0
 - Mission 1
 - Mission 2
 - Mission 3
 - Mission 4
 - Mission 5
 - Mission 6

The main area displays a satellite map of Europe with several colored paths (yellow, pink, green, blue) representing glider missions. A tooltip over the map says "Click to start drawing". The bottom of the interface contains logos for AtlantOS, the European Union, and BRUNCIN.

Tasks 3.4 : « Gliders »

The glider App' - D3.6 August 2017 - Lead BRUNCIN

How the community should benefit form this development ?



Tasks 3.4 : « Gliders »
Eastern Boundary Survey (D3.12 - August 2018) - GEOMAR Lead

2nd GA in Kiel report:

A post-doc will start soon on that subject (advised by Gerd). An option is to demonstrate how endurance lines are can be useful for monitoring Eastern boundary areas. In that context, some “endurance lines” like Senegal studies (some repeat-sections during few months) could be added to the study.

Update ?



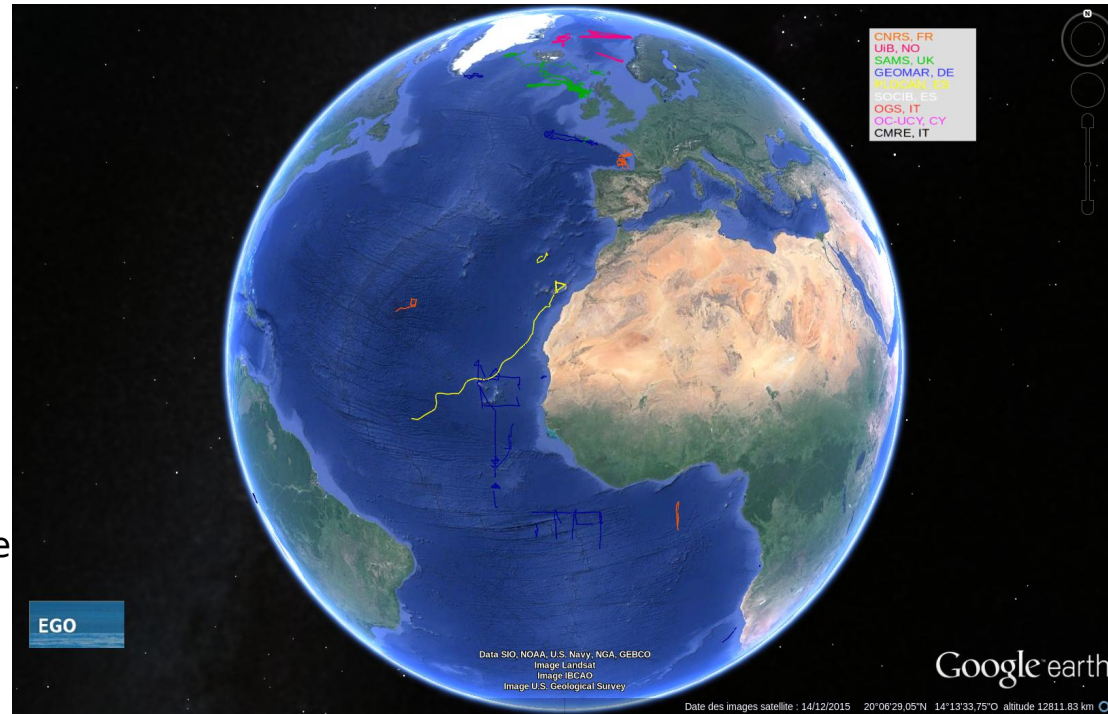
(i) Data Management

- **Data and Monitoring :**
 - monitoring glider deployments in RT :
 - Map of the « official array »
→ improving the data flow.
 - Glider registration differences between EGO data base and GDAC.
 - Priority on endurance lines.
 - Catalogue and monitoring tools available from GDAC / JCOMMOPS

Tasks 3.4 : « Gliders » Tasks advances

(i) Enhancing the glider network

- Data and Monitoring :
 - monitoring glider deployments in RT :
 - Map of the « official array »
→ improving the data flow.
 - Glider registration differences between EGO data base and GDAC.
 - Priority on endurance lines.
 - Catalogue and monitoring tools available from GDAC / JCOMMOPS / Emodnet
 - International linkages...



	<u>registration</u>	<u>DAC</u>	<u>JSON production</u>	<u>EGO format</u>	<u>Diffusion to GDAC</u>	<u>action to take</u>
GEOMAR	not always	Coriolis	???	ok	ok	<u>Make sure we gather all the deployments</u>
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UIB	no	UIB	not yet	not yet	no	<u>make sure the UIB is supporting his DAC rôle in the community</u>
CNRS	ok	Coriolis	ok	ok	ok	<u>improve automatization of Json production</u>

→ Some lack of information at the coordination level...

(i) Enhancing the glider network

- Tools availability :
 - Make the different glider tools available...
 - ✓ Registration tools
 - MARS system
 - EGO web page
 - ✓ EGO format tools
 - Coriolis processing chain
 - EGO format checker
 - ✓ QC
 - Toolbox QC visuel (SAMS)
 - DMQC
 - ✓ Piloting and visualisation tools
 - GFCP (CNRS)
 - SOCIB Toolbox
 - IGLOO (HZG)
 - Norwegian piloting tools
 - UEA piloting tools (coming)
 - ✓ OSSE
 - glider data simulator
 - piloting optimisation (SEEK)...
 - ✓ Reporting deployment tools (CNRS)
 - Makesome of them open source ?
Knowledge base web page on EGO website
 - Github Vs SVN ?
- New EGO groups
 - Brazil / PROOCEANO
 - Canadian / Takuvik
 - CMRE (data dissemination issue solved ?)
- Toward biology :
 - OTN/EATN ; Canadian Hydrophone

Tasks 3.4 : « Gliders »

Tasks advances

(i) Enhancing the glider network - registration tool

The screenshot shows the EGO website registration tool. The main heading is "Simple procedure to register an EGO glider or a deployment". The form includes fields for "New glider name", "Glider name", "Glider type" (with radio buttons for "Deep Slocum", "200m Slocum", "Spray", "Seaglider", and "SeaExplorer"), "Owning EGO Institution", "Glider URL", "New Deployment", "Deployment URL", "Observatory", "Status" (with radio buttons for "Not started", "Started", and "Completed"), "Planned Start Date", and "Planned End Date". There are "Create" and "Reset formular" buttons at the bottom of the form.

Below the form, there is a section titled "Your registered gliders/deployments" with an "Edit" button. Underneath, a table lists "Registered gliders/deployment at OOV-LOV".

Glider	Owner	Deployment	(planned) Starting date	(planned) End date	Status	Edit
Milou	OOV-LOV	Boussole20	2009-08-06	2009-08-10	Completed	Edit
Milou	OOV-LOV	Boussole21	2009-09-09	2009-09-21	Completed	Edit
Milou	OOV-LOV	MooseT00 01	2009-10-12	2009-10-24	Completed	Edit

Tasks 3.4 : « Gliders » Tasks advances

(i) Enhancing the glider network - registration tool

The screenshot displays the EGO web interface in a Mozilla Firefox browser. The main page is titled "Glider characteristics - Mozilla Firefox" and shows the "Glider detailed characteristics" for a card named "Bonpland".

Active deployments section:

- Opened sessions: Save session

Glider/Deployment section:

- Glider: Bonpland
- Deployment: -deployer-

Info/Plot section:

- Info: -Info-
- Cfg: -Cfg-
- To-glider: -To-glider-

Utility section:

- Reset
- Command
- SetMis

Glider detailed characteristics:

- Card no 97, added on 2009-09-01 16:33:37 by begary
- You can edit this card as webmaster
- Glider Name: Bonpland
- Owning institution: LOCEAN
- Details on owner: Parc National DT INSU
- Main user (define rights): Beguery Laurent
- Type: Deep Slocum
- Serial number: 142
- Firmware version: 6_34
- Argos Id: 27351
- Default landstation (Slocum and Seaglider): helios02.locean-ipsl.upmc.fr
- Default landstationuser (Slocum and Seaglider): dockserveruser
- Default to_glider_dir (Slocum and Seaglider): /var/opt/gmc/gliders/bonpland/to-glider/
- Default data server: thot.locean-ipsl.upmc.fr
- Default email: gliderman@locean-ipsl.upmc.fr
- Glider URL:
- Default datacenter:
- Description: Aimé Jacques Alexandre Bonpland (22 August 1773 - 4 May 1858) was a French explorer and botanist. He participate to a five years exploration with A. Von
- Comment:
- Public/private: Public Private Template
- To be displayed: Yes No
- Update this card

(ii) Eastern boundary Survey

- Study based on endurance lines
 - Report on how gliders can sample eastern boundary region
 - Lofoten / Svinoy
 - OSNAP / Extended Ellett Line
 - ESTOC / Macaronesian Ocean-Observing program
- Scientific papers
GEOMAR ... ?
- Description of Work on that task ; Month 40 - sept 2018 : have to figure that out in the next months !

(iii) Glider App'

Meeting with BRUNCIN in january 2016

- Outreach App :

It will be a responsive web app with a database back-end which will use the EGO data repository as the source for visualization.

EGO file parsers and possibly the initial database itself may come from CORIOLIS

- Visualization & Piloting :

A selection of best software components from each partner system (NOC, SAMS, CNRS, UIB, PLOCAN, GEOMAR) will be identified, cleaned-up and documented for a shared knowledge-base via the existing EGO web/wiki.

If possible, a demo visualization/piloting tool will be constructed using these selected components

Tasks 3.4 : « Gliders » AtlantOS WP7

(iv) resume of WP7 requests

Contribute to the AtlantOS Catalogues :

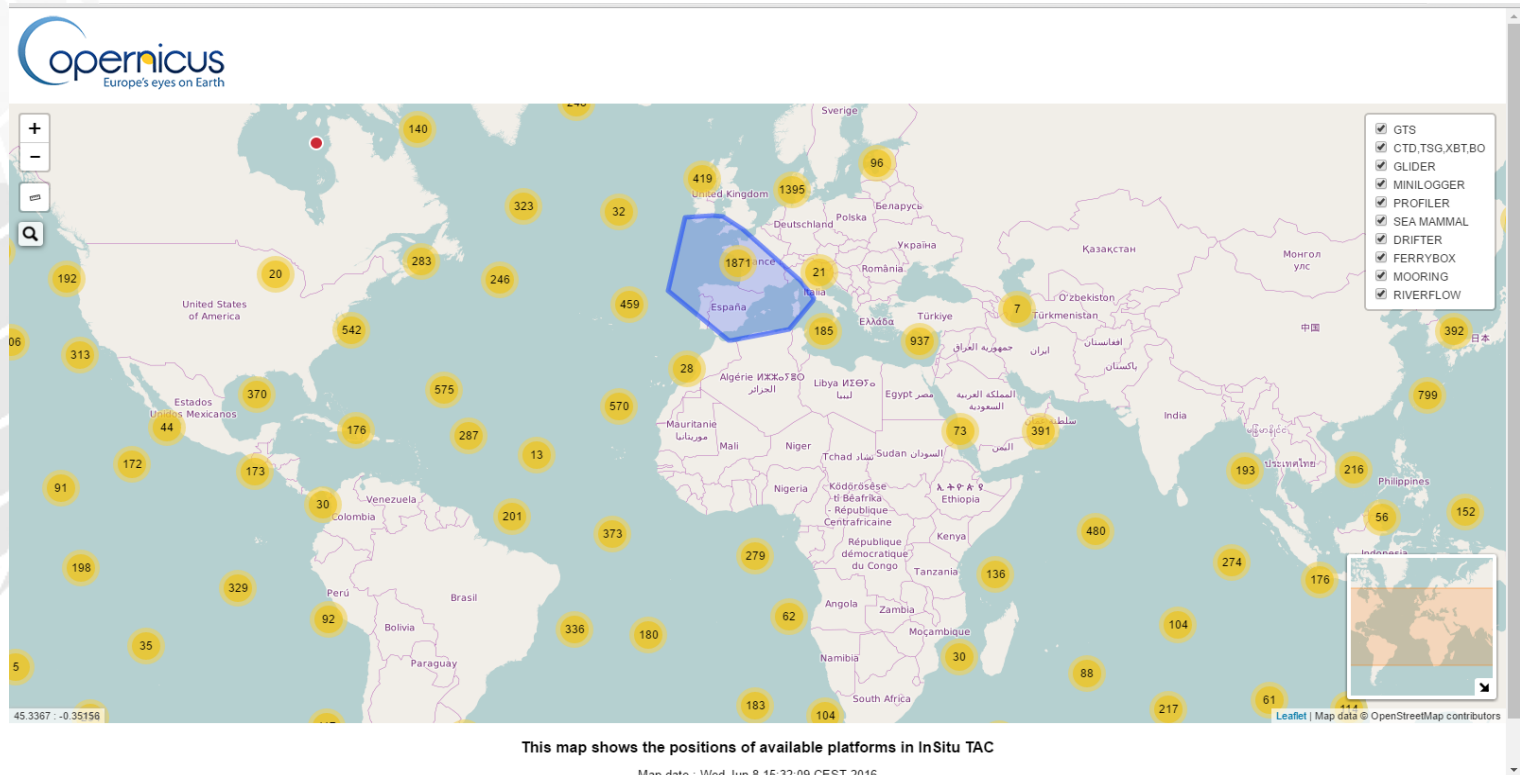
- Index files for deployment
- Datasets files for observatories
- Datasets for endurance lines

« pipe » and tools developed at the GDAC level.

proposition can be done to GDAC to produce such « product »

Catalogue applications :

- Maps
- KPI



(iv) resume of WP7 requests

Contribute to the AtlantOS Catalogues :

- Index files for deployment
- Datasets files for observatories
- Datasets for endurance lines

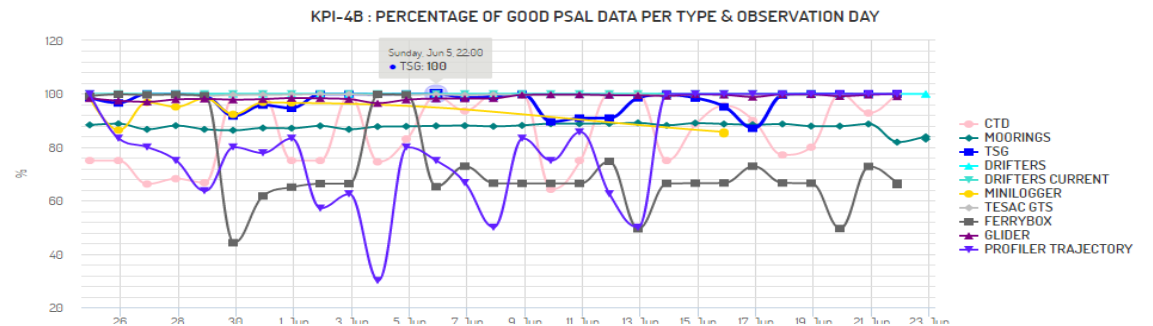
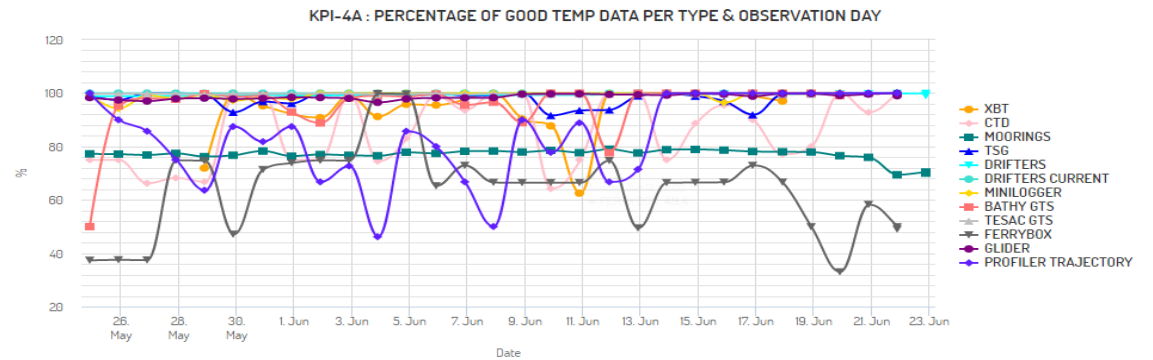
→ pipe and tools developed at the GDAC level.

→ proposition can be done to GDAC to produce such « product »

Catalogue applications :

- Maps
- KPI (definition for the glider network)

www.ifremer.fr/co/co05010507/KPI/



(iv) resume of WP7 requests

- DOI – Digital Object Identifier - a unique identification number system

Identification: enable reliable and durable citation of a data set

Access: provide data access means (direct link, form, email ...)

Traceability: simple and reliable monitoring of the use of data to develop infrastructure

Reproducibility: if the data set is changing, provides the reproducibility of an experiment to enhance the credibility of the study

(iv) resume of WP7 requests

DOI – Digital Object Identifier

Argo part of the integrated global observation strategy



Near-real-time quality-controlled radiometric profiles acquired by Bio-Argo floats

Publication date 2016-04
 Temporal extent 2012-2014
 Author(s) Organelli Emanuele¹, Claustre Hervé¹, Bricaud Annick¹, Schmechtig Catherine², Poteau Antoine¹, Xing Xiaogang^{3,4}, Prieur Louis¹, D'Ortenzio Fabrizio¹, Dall'Omo Giorgio^{5,6}, Vellucci Vincenzo¹
 Contributor(s) Loisel Hubert, Mork Kjell-Arne, Poulain Pierre-Marie, Slabakova Violeta, Stanev Emil, Thierry Virginie, Conan Pascal, Coppola Laurent, Speich Sabrina
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 3 : Key Laboratory of Physical Oceanography, Ocean University of China, Qingdao, China
 4 : Takuvik Joint International Laboratory, CNRS, Université Laval, UMI 3376, Québec City, Canada
 5 : Plymouth Marine Laboratory, Plymouth, United Kingdom
 6 : National Centre for Earth Observation, Plymouth Marine Laboratory, Plymouth, United Kingdom

DOI 10.17882/43499
 Publisher SEANOE

Keyword(s) radiometry, real-time, quality-control, Bio-Argo floats

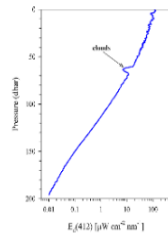
Abstract Vertical profiles of *Photosynthetically Available Radiation* (PAR) and downward irradiance (Ed) at 3 wavelengths (380, 412 and 490 nm) are routinely acquired by autonomous Bio-Argo floats. The database here presented includes radiometric profiles that have been quality-controlled using a specifically developed procedure for real-time distribution of data. The procedure is aimed at verifying only the shape of profiles. In each profile, dark signal, atmospheric clouds, spikes and wave focusing are flagged in a way compliant with the Argo real-time data management system. These data are therefore totally adapted to derive optical quantities such as the diffuse light attenuation coefficients. No quality control on the measured irradiance quantity is performed, which would require development of delayed-mode quality-control procedures.

Licence

Utilisation Data are published without any warranty, express or implied. The user assumes all risk arising from his/her use of data. Data are intended to be research-quality and include estimates of data quality and accuracy, but it is possible that these estimates or the data themselves contain errors. It is the sole responsibility of the user to assess if the data are appropriate for his/her use, and to interpret the data, data quality, and data accuracy accordingly. Authors welcome users to ask questions and report problems.

Acknowledgments This database is a contribution to several projects: remOcean (funded by the European Research Council, grant agreement 246777), NAOS (funded by the Agence Nationale de la Recherche in the

Click to download the data



Download metadata

TXT, RIS, XLS

References

Organelli Emanuele, Claustre Hervé, Bricaud Annick, Schmechtig Catherine, Poteau Antoine, Xing Xiaogang, Prieur Louis, D'Ortenzio Fabrizio, Dall'Omo Giorgio, Vellucci Vincenzo (2016). A novel near real-time quality-control

Abstract Vertical profiles of *Photosynthetically Available Radiation* (PAR) and downward irradiance (Ed) at 3 wavelengths (380, 412 and 490 nm) are routinely acquired by autonomous Bio-Argo floats. The database here presented includes radiometric profiles that have been quality-controlled using a specifically developed procedure for real-time distribution of data. The procedure is aimed at verifying only the shape of profiles. In each profile, dark signal, atmospheric clouds, spikes and wave focusing are flagged in a way compliant with the Argo real-time data management system. These data are therefore totally adapted to derive optical quantities such as the diffuse light attenuation coefficients. No quality control on the measured irradiance quantity is performed, which would require development of delayed-mode quality-control procedures.

Licence

Utilisation Data are published without any warranty, express or implied. The user assumes all risk arising from his/her use of data. Data are intended to be research-quality and include estimates of data quality and accuracy, but it is possible that these estimates or the data themselves contain errors. It is the sole responsibility of the user to assess if the data are appropriate for his/her use, and to interpret the data, data quality, and data accuracy accordingly. Authors welcome users to ask questions and report problems.

Acknowledgments This database is a contribution to several projects: remOcean (funded by the European Research Council, grant agreement 246777), NAOS (funded by the Agence Nationale de la Recherche in the frame of the French "Equipement d'avenir" program, grant agreement ANR J11R107-F), UK Bio-Argo (funded by the Natural Environment Research Council-NERC), Argo-Italy (funded by the Italian Ministry of Education, University and Research-MIUR), E-AIMS (funded by European Commission-FP7 project), AtlantOS (funded by European Commission-H2020 program, grant agreement 2014-633211), and the French Bio-Argo program (Bio-Argo France; funded by CNES-TOSCA, LEFE Cyber and GMMC).

User's manual <http://doi.org/10.1175/JTECH-D-15-0193.1>

Data	File	Size	Format	Processing	Access
	43047.zip	55 MB	NC, NetCDF		



How to cite

Organelli Emanuele, Claustre Hervé, Bricaud Annick, Schmechtig Catherine, Poteau Antoine, Xing Xiaogang, Prieur Louis, D'Ortenzio Fabrizio, Dall'Omo Giorgio, Vellucci Vincenzo (2016). Near-real-time quality-controlled radiometric profiles acquired by Bio-Argo floats. SEANOE. <http://doi.org/10.17882/43499>



Download metadata

TXT, RIS, XLS

References

Organelli Emanuele, Claustre Hervé, Bricaud Annick, Schmechtig Catherine, Poteau Antoine, Xing Xiaogang, Prieur Louis, D'Ortenzio Fabrizio, Dall'Omo Giorgio, Vellucci Vincenzo (2016). A novel near real-time quality-control procedure for radiometric profiles measured by Bio-Argo floats: protocols and performances. American Meteorological Society.

Related datasets

Argo (2000). Argo float data and metadata from Global Data Assembly Centre (Argo GDAC). SEANOE.

Share



(iv) resume of WP7 requests

DOI – Digital Object Identifier from the network point of view

- Need to set up a policy on glider data DOI at the network level (multiple PIs/EDMO code in .json file)
- Proposition : 2 levels of DOI
- DOI for deployment with a key related to data processing (RT,DM)
- Top level DOI that gather deployments of a « program » (project, endurance line, area...)

(iv) resume of WP7 requests

Network objectives : need for rigorous metadata management

Better management of the .json files

Discuss and define this in a larger specification document on the evolution of the registration system

.json template available

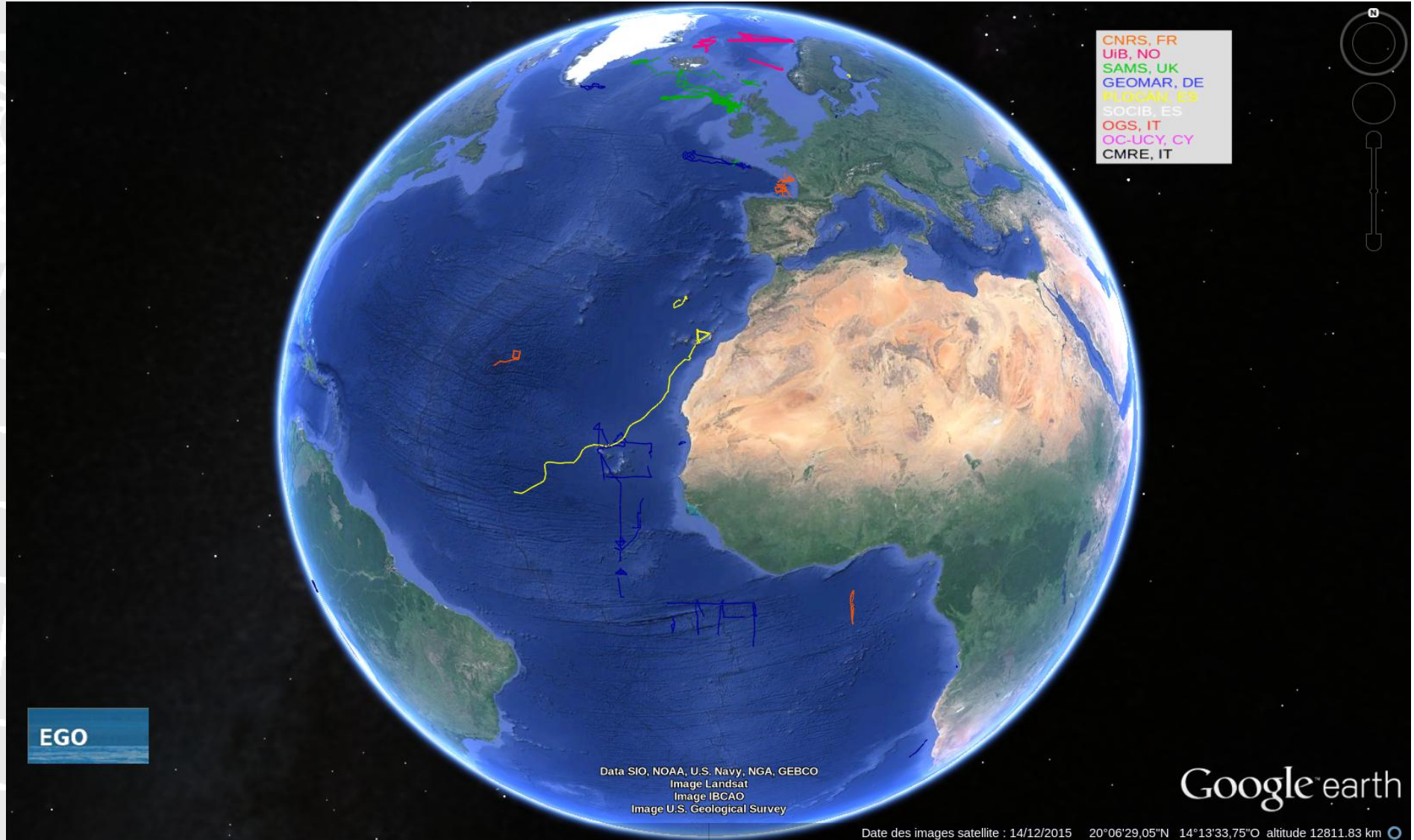
Highlighting the benefit of this approach through AtlantOS

→ Sensor Web Enhancement objectives

- Related to .json sensor files.
- Usefull/necessary for structuring our network, improving metadata management (registration, DM)
- Toward a metadatabase of .json files → collaboration with WP7 to convert .json to sensorML... Esonet Yellow pages (FixO3), Sensor Nanny Tools (IFREMER)...

Tasks 3.4 : « Gliders » AtlantOS WP7

(iv) connexion with WP4 - OSSE



(v) Data format discussion

- Data management package V1.2
 - Processing chain → ok, (Slocum, Seaglider, Spray ?, SeaExplorer ?)
 - EGO format checker → ok
 - data policy document, → nok
 - data format document, → ok (draft V1.2 ready to be discussed)
 - data management best practices, → ok (draft V1.0 ready to be discussed)
 - .json template → ok
- Which process to release a new or updated format ?
The exemple of ongoing work through Bridges.
- Need to find a volunteer to manage such discussion.

Tasks 3.4 : « Gliders » EGO network

(vi) EGO : How to involve non european partners.

« Gathering » new Ego Groups :
US / Canada / Brazil / Mexico / South Africa ? / ...

Data-sharing with non European

Data management steering team through JCOMM framework ? Need to organize first meeting.

OSMC : <http://osmc.noaa.gov/Monitor/OSMC/OSMC.html...>

Date: 03-Jun-2015 00:00:00 to 05-Apr-2016 23:59:59

Platforms: 86

Observations: 12781642



(vi) EGO communication, meetings and strategy...

- + Bibliography
- + Need for a Newsletter
 - Which format ?
 - Headings suggestions : new project, publications, deployment, activities, report, publications... ?
 - Input process : We need to be more aware of what you are all doing.
- + Social network
 - Twitter ?
- + EGO groups : What is a group ? « Manager » of the groups

Tasks 3.4 : « Gliders » EGO network

(vi) EGO communication, meetings and strategy...

+ EGO groups : What is a group ? « Manager » of the groups

The screenshot shows the EGO network website in a Mozilla Firefox browser. The page title is "publicmembers [EGO glider website] - Mozilla Firefox". The URL is "www.ego-network.org/dokuwiki/doku.php?id=public:members". The page content includes a navigation menu on the left, a main content area with a "Members" section, and a "REAL TIME GLIDERS" sidebar on the right.

Members

Application form to join an EGO Group (private access)

List of EGO groups (institution, EGO group members and address):

	AWI (Resp. Agnieszka Beszczynska-Moeller)	Stiftung Alfred-Wegener-Institut für Polar und Meeresforschung Fachbereich Klimasystem Postfach 120161, D-27515 Bremerhaven
	BCCR (Resp. Peter Haugan)	Alleg. 55 N-5007 Bergen, Norway
	CETSM (Resp. Michel Perrier)	Centre Européen de Technologies Sous-Marines Zone Portuaire de Brégaillon BP 330 83507 La Seyne/Mer Cedex
	CMRE	Centre for Maritime Research and Experimentation (ex NURC) Viale San Bartolomeo 400 19126 La Spezia, Italy
	CSIR (Resp. Seb Swart)	CSIR Natural Resources and the Environment P.O. Box 320 Stellenbosch 7599 South Africa
	DISAM	Università degli Studi di Napoli Parthenope Dipartimento di Scienze per l'Ambiente Centro Direzionale di Napoli - Isola C4 80143 - Napoli Italy
	DT INSU (Resp. Jean-Luc Fuda)	Division Technique de l'INSU Zone du Brégaillon La Seyne sur Mer
	ENSTA (Resp. Laurent Mortier)	Ecole Nationale Supérieure de Techniques Avancées Unité de Mécanique 32 Bd Victor, 75015 Paris, France
	GEOMAR (Resp. Gerd Krahnmann)	Leibniz-Institut für Meereswissenschaften FB 1: Ozeanzirkulation und Klimadynamik, Physikalische Ozeanographie Düstembrooker Weg 20, 24105 Kiel, Germany
	HCMR	Hellenic Centre for Marine Research 46.7 km Athens - Sounio ave., P.O. Box 712, GR190 13 Anavassnes Attica

REAL TIME GLIDERS

[By Observatories]
[By EGO groups]
[All Gliders]

[AWI]
[BCCR]
[CETSM]
[CMRE]
[CSIR]
[DISAM]
[DT INSU]
[ENSTA]
[GEOMAR]
[HCMR]
[HZG]
[IFREMER]
[IMEDEA]
[IMR]
[LEGOS]
[LOCEAN]
[LPO]
[MIO]
[MUN]
[NCCS]
[OC-UCY]
[OGS]
[OOV-LOV]
[PLOCAN]
[POL]
[SAMS]
[SOCIB]
[TAKUVIK]
[UEA]

Tasks 3.4 : « Gliders » EGO network

(vi) EGO communication, meetings and strategy...

+ EGO groups : What is a group ? « Manager » of the groups

The screenshot shows the EGO network forum page for the PLOCAN group. The page is viewed in Mozilla Firefox. The browser's address bar shows the URL: www.ego-network.org/forum/phpBB3/memberlist.php?mode=group&g=29. The page title is "EGO Everyone's Gliding Observatories". The forum post is titled "Forum" and contains a welcome message: "Welcome to the Forum for discussions about the different glider models as well as on sensors, data, deployments, software and others... This also grants you access to private resources such as our tutorials, technical notes, development pages and pictures of glider operations." Below the welcome message, there is a search bar and a "User Control Panel" link. The main content area displays the "PLOCAN" group details, including a table of group members and their join dates.

GROUP LEADER	RANK	POSTS	WEBSITE	LOCATION	JOINED
gliderman		0			Mon Apr 06, 2009 11:52 am
CarlosBarrera		0			Thu Jul 08, 2010 9:50 am
GROUP MEMBERS					
jhdez32		0			Sun Jun 13, 2010 8:20 am
elvaro.lorenzo		0			Tue Aug 30, 2011 9:42 am
angela.demanzanos		0			Wed Aug 31, 2011 8:52 am
RaycoMc		0			Wed Aug 31, 2011 8:56 am
taniam		0			Tue Aug 28, 2012 8:44 am
dulce		0			Wed Aug 06, 2014 10:41 am
nestor.rodriguez		0			Mon Aug 31, 2015 10:56 am
Du@Santana		0			Thu Oct 29, 2015

(vi) EGO communication, meetings and strategy...

+ Bibliography

+ Need for a Newsletter

Which format ?

Headings suggestions : new project, publications, deployment, activities, report, publications... ?

Input process : We need to be more aware of what you are all doing.

+ Social network

Tweeter ?

+ EGO groups : What is a group ? « Manager » of the groups

+ EGO Strategy about software tools ?

+ EGO meeting. Abstract submission deadline extension

+ After AtlantOS... We need to find a way to fund a position for coordination and data management... Opinion ? Strategy ?