



GROOM

Gliders for Research, Ocean Observation and Management

FP7-Infra-2011-2.1.1 “Design Studies”

Deliverable D6.4

Kick-off meeting minutes

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Temporary project website address <http://hermes.dt.insu.cnrs.fr/groom/KOM>

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WELCOME ADDRESS AND AGENDA

The coordinator, Dr. Laurent Mortier, Dr. Pierre Testor and the project manager Dr. Ahlem Abbaci (Université Pierre et Marie Curie), greeted all the participants who attended the Kick-off Meeting of the project. Attendees are members of the partner Institutions or invited experts. A round table allowed each partner attendee to describe to the rest of the consortium his/her team, laboratory, equipment and research expertise in the field of glider science and technology. The list of attendees is in annex 1.

The meeting was organised in three sessions which allowed the detailed presentation of the six Work Packages (WP), their deliverables and related milestones. A discussion followed each WP presentation. A final discussion concluded the Kick-off Meeting. The agenda of the Meeting is in annex 2. A first meeting of the Steering Committee was then held at the end of the second day.

Since all the members of the Core Group of the EGO ESSEM-COST Action ES0904 are also GROOM partners, two Core Group meetings were held during these two days in Paris.

Dr. Pierre Testor chaired the three sessions of the Kick-off Meeting.

All the presentations were collected and made available on the temporary website of the project: <http://hermes.dt.insu.cnrs.fr/groom/KOM> (*userid* and *password* are provided by the coordinator on request).

GLOBAL PRESENTATION OF GROOM PROJECT OBJECTIVES - WP1: PROJECT SCIENTIFIC AND TECHNOLOGICAL COORDINATION

The coordinator presented the overall objectives of the project to all the participants (presentation GROOM_KOM_WP1.pdf available on the website). This presentation included some excerpts of Hervé Pero's presentation during the ESFRI meeting in Brest, which allowed the description of the European marine Research Infrastructures (RIs) context.

The discussion focused on the following points:

- Design study versus Preparatory Phase. The difference between a Design Study project and a Preparatory Phase project was made more clear thanks to H. Pero's presentation. The general European and global agendas in the field of Research Infrastructure and marine observing systems shows that 2015 is a first and important milestone. It was stressed that these agendas impose a tight external timing to the project but also that there are already existing parts of the foreseen infrastructure which are made available by some partners. So, GROOM as a DS has to propose a detailed design of the RI consistent with the partners' existing structures in order to be ready for implementation at the end of the project.
- One of the global objectives of the project is to foster the formation of a global glider program similar to what exists for other marine platforms. The role of the so-called "Essential Climate/Ocean variables" was also discussed in this context and reference was made to the relevant reports of the Integrated Framework for Sustained Ocean Observations Task Team IFSOO-TT (available on the website).

- The possible degrees of integration of the foreseen distributed infrastructure of glider facilities were discussed: Complementarities/integration with existing infrastructure such as Euro-ARGO, JERICO ... but also complementarities/integration between the existing and future national or regional glider facilities.
- The “website” issue was extensively discussed. As glider websites concern the GROOM project, the EGO COST network, the global EGO network and to some extent all the partners websites, a policy is needed to avoid too much duplication of efforts and above all a weakening of the communication potential of these websites. A working group (UPMC, SAMS) has been formed to help on this issue since the corresponding deliverable is for month 6.
- The website (or the temporary website) must include as soon as possible a platform to exchange documents between partners. As the project will do an extensive use of “questionnaires” inside the project but also outside, a standard questionnaire resource will be worked out for that by the scientific coordinator.

PRESENTATION OF WORKPACKAGE 2 TO 6

WP6: PROJECT MANAGEMENT

Dr. Ahlem Abbaci (Project manager) presented the administrative management of the project (GROOM_KOM_WP6.pdf). This included in particular the Grant Agreement and its annexes, the Consortium Agreement which is presently under discussion between the legal officers of the partners institutions, definitions of the consortium bodies (committees and boards), and management structure and tools. The following points were discussed:

- For all financial matters the rules of the individual partner countries apply. For equipment purchase, the partners should immediately contact the individual financial administration to determine what rules apply. Typically, instrumentation is in general depreciated over five years and consequently, for a three years project, a maximum (if purchased in month 0) of 60% can be claimed. As most equipments within GROOM are prototype sensors, different regulations may apply. The partners were encouraged to check into detail the status of these equipments, to start as soon as possible the purchase process and to report any difficulty to the project manager.
- Each partner will designate a responsible person (scientific or administrative personnel) for using the Vitamib management tool.
- UPMC as coordinating institution applied a withhold of 10% on the pre-financing payment which will be paid at the end of the project. Thus, as the project is collaborative, and in addition to the guarantee fund applied by the European Commission for financial defaults of partners, the coordinating institution is authorized to apply this procedure as a scientific and technical guarantee.
- The partner IFM-GEOMAR will change its name to GEOMAR on January 1st 2012. The president of UPMC will also change in early 2012. The project manager will check for possible GA amendments.
- Standard posters and presentations should be generated and shared.

- The external boards' composition will be worked out. As the composition of these boards must be approved by a General Assembly, an e-vote will be used for that.
- Deliverables that are due will be announced 1-2 month in advance to the responsible person for that deliverable.
- A deliverable template will be provided by the coordinator.

WP2: INTEGRATION IN THE GOOS

Dr Johannes Karstensen presented WP2 (GROOM_KOM_WP2.pdf) which concerns the “operational oceanography” perspective of the project and the legal/financial aspects. This WP deals with “strategic” issues for which the inputs from stakeholders are essential. These issues were discussed into details and are summarized below.

- The approach for Task 2.1 (Assessment of a glider component in the GOOS) was discussed extensively. It was proposed to analyse the use of the gliders as a part of the Global Ocean Observing System in reference to some relevant examples that are related to possible standard applications (e.g. determine the oceans CO₂ uptake, sampling submesoscale for multidisciplinary research, targeted sampling of a region to improve ocean prediction e.g. for SAR applications). A second suggestion was to deal with a more standard ‘ROOS’ approach which attempts to quantify the reduction in error when including glider observations in operational forecasting systems. A synthesis should be made between these 2 approaches.
- The deliverable D2.2 (Report on data assimilation, model validation and OSSE requirements) was also discussed to know if it should include results from model experiments to be carried within GROOM – which would impose a tight timing – or mainly based on existing results and simple quantitative approaches. The second is more likely but this point should be elaborated with the NERSC (Laurent Bertino) and NURC (Alberto Alvarez), the responsible partner for this deliverable. A connection with task 5.3 is envisioned.
- The list of additional participants for deliverable D2.4 (The legal framework for joint management of a European glider component) must be elaborated, so far only Univ. of Trier (Alexander Proelß) is involved at the moment. Marine safety issues (IMO) should be considered.
- The financial model that shall be developed in WP2.3 must also consider a partition in national and European/global tasks. This is because although it is expected that the funding for the basic infrastructure will come from the member states, overarching European applications of the infrastructure (scientific as well as service oriented) require support from additional sources. This clearly came out from the final declaration made during the Marine Research Infrastructures Symposium in July 2011 (Brest, Fr). It was also suggested to consider for the assessment recent European infrastructure operations schemes such as “Service Activities (SA)” and “trans national access (TNA)”. The financial evaluation may also include an evaluation of the role SMEs can play when operating the infrastructure. The cost estimate will benefit from input from task 5.4. The actual cost estimate should get input from task 5.4.

- This workpackage requires visibility to foster the integration with the outside of GROOM. Standard posters and presentations should be generated and shared between partners. Please present GROOM when ever possible.

WP3: SCIENTIFIC INNOVATION

Dr Elena Mauri presented WP3 (GROOM_KOM_WP3.pdf) which concerns “research and innovation”. Several issues were debated:

- Clarifications about the “acoustics” in GROOM are required. Several tasks deal with acoustic sensors and acoustics for scientific data transfer or for positioning. This issue will be a new activity and expertise within most of the GROOM consortium. A working group should be established on these topics.
- The deliverable date for D3.2 (Optical and salinity algorithms designed, test of NRTQC) at month 12 must be checked for the “optical” part. The contributors of the relevant tasks (3.1 and 3.2) must agree on a new date if needed. The list of contributors must also be extended to UPMC (optics) and HCMR (NRTQC as defined by MyOcean for biogeochemical data). It was also stressed that this task should emphasize the difference between the NRTQC for Argo profiling floats and for gliders and design the development of new algorithms if needed.
- It was emphasized that the public outreach must consider several type of public. In particular the “regional stakeholders” public should be the focus as potential users of services provided by a glider infrastructure as well as for its financing. Again, standard presentations (and posters) are of use here – maybe in different complexity to satisfy the requirements for different groups (pupils, students, other scientists, politicians,...).
- Outreach is a strategic activity in the sense that it can provide a tremendous “image” benefit to the institution which communicates. The question of whether the outreach must be collective or individual in GROOM has been debated. A possible solution could be a connection to the COSEE network (www.cosee.net, presently mainly US institutions) or a similar European program or we may even think of mimic “COSEE type practices” within GROOM. GROOM could even promote a more global approach to this outreach problem in Europe, by using the good “communication” potential of marine platforms in general for that.

WP4: TARGETED EXPERIMENTS

Prof. Karen Heywood presented WP4 (GROOM_KOM_WP4.pdf) which concerns fields tests.

- CSIC (IMEDEA) must be added to the list of contributors of task 4.1 (Endurance lines).
- GROOM should promote an efficient tracking (and back tracking) mechanisms for glider operation (wiki, yahoo groups ...). This activity should be common to the EGO COST network and open to US and Australia groups.

- It was debated whether a field test for “glider as messenger” should be considered. Clarification will be made by NURC which proposed this topic.
- It was pointed out that sensor implementation in a glider is a difficult task. So, specific attention must be paid by the partners involved in task 5.2 (Glider payload assessment) on the date of delivery of the relevant deliverables which may impact task 4.3 schedule.
- As part of GROOM best practices, there was suggestion that a “cruise/mission report” template could be used for all GROOM glider missions. It is also likely that such a template will be recommended and worked out in task 5.1. One or 2 pages with summary information could be archived on the web site.
- An important outcome of a European Infrastructure is the easy and free accessibility of data. Given the mixed (national/European) use of the infrastructure, certain limitations may exist (e.g. commercial interests, military applications), but in general the Real Time data from GROOM glider missions run in WP4 should ideally be provided to DACs or GDACs (such as Coriolis). Software for the data transfer exists and shall be implemented by all partners.
- A GROOM specific data policy should be formulated based on the recommended practices that are now being worked out by several groups in Europe, in particular in the context of the INSPIRE and MFSD directives (e.g. EMODnet).

WP5: OBSERVATORY INFRASTRUCTURE

Dr. Dan Hayes presented WP5 (GROOM_KOM_WP5.pdf) which concerns the “gliderport” organization.

- A group of “experts” for sensor implementation must be formed and rely whenever possible to the EGO COST network to avoid any time shift for task 5.2 (Glider payload assessment) since task 4.3 (Synergies with other platforms) relies on task 5.2 activity.
- It was decided that all partners will receive a questionnaire regarding their facilities and capabilities, in order to form a “booklet” of available resources. Besides being useful to researchers' everyday work, this provides the foundation for the ground segment description (task 5.1). A template will be designed as soon as possible by a group of partners led by HZG (L. Merckelbach).
- It was suggested that for task 5.2, an artificial standard could be used to inter-compare optical sensors in a repeatable way (for example fluorimeters). In respect to the artificial sensor calibration, a concerted “GROOM sensor intercomparison experiment” was suggested. As the field of miniaturized optical sensor is rapidly evolving in Europe and in the USA, GROOM partners should avoid any duplication of effort here and try to reach the relevant groups of expertise (such as e.g. the International Ocean-Colour Coordinating Group, IOCCG) whenever possible.
- It was suggested that one page (at best) “How to...” documentation (sensor calibration, best practices) shall be formulated to establish the GROOM standards (expected to be a major outcome of the project).

JERICO PROJECT

Patrick Farcy, coordinator of the FP7-I3 JERICO project (Joint European Research Infrastructure Network for Coastal Observatories) gave a presentation of the project with emphasis on the glider component and the overlap with GROOM (JERICO_presentation_GROOM.pdf).

- A joint meeting GROOM-JERICO is needed to better defined the overlap between the 2 projects. As both projects have the same project officer at DGRI, the coordinators will inform the DGRI on the join efforts for synergy and improvement of the quality of the deliverable of both projects.
- JERICO could provide several inputs to GROOM in particular for Baltic Sea and North Sea OSSEs.

CONCLUDING REMARKS

The coordinator gave a short summary of the meeting and sketched the next important forthcoming dates.

- A more detailed work flow will be elaborated by the coordinator to allow better coordination between tasks and partners.
- A joint meeting GROOM-JERICO will be schedule in May 2012 in Palma de Mallorca.
- A second SC meeting scheduled by end January/February by teleconference.
- A list of stakes and general recommendation to be considered by all partners.

ANNEX 1. LIST OF ATTENDEES

| Name of participant | Organisation |
|------------------------------|---------------------|
| Karen Heywood | UEA |
| Agnieszka Beszczynska-Möller | AWI |
| Angelos Hannides | UCY |
| Svein Østerhus | UIB |
| Peter M Haugan | UIB |
| Carlos Barrera | PLOCAN |
| Paula Pacheco | PLOCAN |
| Lucas Merckelbach | HZG |
| Francois Counillon | NERSC |
| Simon Ruiz | CSIC |
| Emma Heslop | NERC/IMEDEA |
| Johannes Karstensen | IFM-GEOMAR |
| Michael Schlundt | IFM-GEOMAR |
| Alberto Alvarez | NURC |
| Pekka Alenius | FMI |
| Reiner Onken | NURC |
| Laurent Beguery | CNRS |
| Elena Mauri | OGS |
| Fabrizio D'Ortenzio | CNRS |
| Dimitris Kasis | HCMR |
| Rolf Riethmüller | HZG |
| David Smeed | NERC |
| Ahlem Abbaci | UPMC |
| Pierre Testor | UPMC |
| Laurent Mortier | UPMC |
| Patrick Farcy | IFREMER |
| Daniel Hayes | OC-UCY |
| Gerd Krahnemann | IFM-GEOMAR |
| Estelle Dumont | SAMS |
| Chrysostomos Eleftheriou | OC-UCY |
| Stanisław Ryszard Massel | IOPAN |

ANNEX 2. GROOM KICK-OFF MEETING AGENDA

Monday 14th November

| | |
|---------------|---|
| 10:30 – 10:45 | Welcome, short round table presentation of project partners |
| 10:45 – 11:30 | WP1 Project S/T coordination, <i>Laurent Mortier</i> |
| 11:30 – 11:45 | WP1 Discussion |
| 11:45 – 12:30 | WP6 Project management, <i>Ahlem Abbaci</i> |
| | <i>lunch</i> |
| 13:30 – 14:30 | WP2 Integration with GOOS, <i>Johannes Karstensen</i> |
| 14:30 – 15:00 | WP2 Discussion |
| | <i>coffee break</i> |
| 15:30 – 16:30 | WP3 Scientific Innovation, <i>Elena Mauri</i> |
| 16:30 – 17:00 | WP3 Discussion |
| | <i>coffee break</i> |
| 17:30 – 18:30 | WP4 Targeted Experiments, <i>Karen Heywood</i> |
| 18:30 – 19:00 | WP4 Discussion |
| 19:00 – 19:30 | “EGO COST Action” Core Group meeting (1/2) |
| | <i>dinner 20h30</i> |

Tuesday 15th November

| | |
|---------------|--|
| 09:00 – 10:00 | WP5 Observatory Infrastructure, <i>Dan Hayes</i> |
| 10:00 – 10:30 | WP5 Discussion |
| | <i>coffee break</i> |
| 11:00 – 12:00 | GROOM concluding remarks |
| | <i>lunch</i> |
| 13:30 – 16:00 | “EGO COST Action” Core Group meeting |
| | <i>coffee break</i> |
| 16:30 – 18:00 | GROOM Steering Committee meeting |