



2015 Activity

Euro-Argo ERIC



Euro-Argo: A new European Research Infrastructure





- ERIC C-RI worked in 2015 along six main activities:
 - Set up and management of the Euro-Argo ERIC
 - Enhance communication and outreach (incl. scientific community)
 - Coordination of Euro-Argo float deployment and float monitoring activities
 - Development of a long term roadmap for Euro-Argo incl. implementation issues
 - Organize the work of the ERIC for new EU projects
 - Continue seeking for additional funding with EC





- The ERIC set up was **finalized** and especially **administrative procedures** related to the installation so that we fulfil the obligation of any legal entity in France.
- **Interaction with DG-Research** within the ERIC Network group:
- The Program manager **worked with the Council and Management Board chairs** to prepare the Council and Management Board meetings and the associated documents including reports on activities.
2 Council and 3 Mgt board meetings were organized





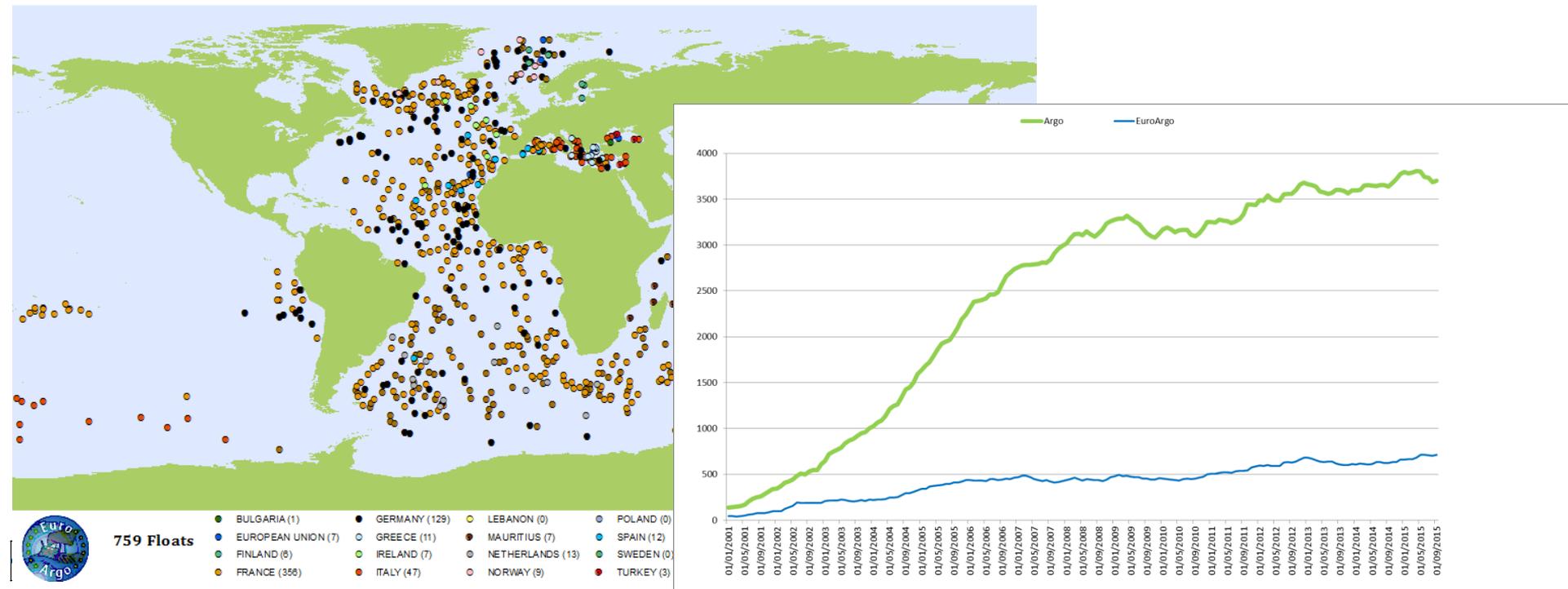
- **The Euro-Argo WWW** site was updated to take into account the progress made by the Euro-Argo members and observers. **Still in progress with Management Board**
- The **educational WWW** site maintained by NOC was updated under FP7 E-Aims project with Deep and Bio-Argo float stories
- **The 5th Euro-Argo user workshop was organised** mid March 2015 side to the Argo International Steering team meeting . More than 100 persons attended, 18 talks 16 posters were presented , 2 round tables on the extension of Argo and Service to Users were organized.
- Scientific Conferences: The Euro-Argo ERIC had a booth and made a presentation at the Galway meeting on “Sustained ocean observing for the next decade” organised jointly by Argo, GOSHIP and IOCCP. An action on going at MGT board to organise more contribution in 2016





Coordination of Euro-Argo float deployment and float monitoring activities

- The C-RI coordinated Euro-Argo float deployment within the Argo context.
 - At each MGT board the amount of floats purchase by each country is reviewed and the European contribution to the network is monitored .





Coordination of float Deployment

	2011 <i>deployed</i>	2011 Argo <i>extension</i>	2012 <i>deployed</i>	2012 Argo <i>extension</i>	2013 <i>deployed</i>	2013 Argo <i>extension</i>	2014 <i>deployed</i>	2014 Argo <i>extension</i>	2015 <i>estimated</i>	2015 Argo <i>extension</i>	2016-2020 <i>plans (per year)</i>
Bulgaria		3				1	0	0		3	3
European Union					2	2		9	40	14	80
Finland		2		3		4		5		3	3
France	53		82		65	16	85	15	65	15	80
Germany	48		72		31	7	48	18	40	12	40
Greece						2		5		5	5
Ireland	3		2		1		2		3		3
Italy		4	2	17		12		22		30	25
Netherlands	7		7		4		8		7		7
Norway						1	2	4	3		3
Poland			1			2			3		3
Spain	17		6		4		2		3		3
Turkey						4		2			
UK (Mauritius)	41 (4)		25	13	30 (2)	2	45(2)	2	50		40
Total	173	9	197	33	139	53	194	82	214	82	
	182		230		192		276		296		295

- Number of floats deployed for 2011 to 2014
- Number of floats procured for 2015 and after . Part of these floats may be deployed the following year
- EU contribution is increasing





Contribution from members & observers 240K€ from 240K€ received

Country	FEE	date
Bulgaria	0	Not possible as Candidate Member working on being a Member in 2015
Finland	30000	26/03/2015
France	30000	26/03/2015
Germany	30000	11/03/2015
Greece	30000	17/09/2015
Ireland	10000	03/03/2015
Italy	30000	13/04/2015
Netherlands	30000	24/03/2015
Norway	10000	24/03/2015
Poland	10000	31/03/2015
Spain	0	not possible as Candidate Working on being a Member in 2015
UK	30000	19/06/2015





Development of a long term roadmap for Euro-Argo incl. implementation issues

- Within the SIDERI FP7 project a roadmap for the extension of Argo in Europe has been prepared and this document has evolved as part of Euro-Argo ERIC activities.
- The SIDERI document , renamed “Strategy for the evolution of Argo “ was updated by Mgt Board
 - to **specify common objectives** taking into account and contributing to similar discussions that are taking place at International level within Argo.
 - This concerns in particular the design of **Deep Argo and Bio-Argo** components.
- Discussion started at MGT Board on the implementation plan and will be developed in the coming year





Euro-Argo
European Research Infrastructure
Consortium



Strategy for evolution of Argo in Europe

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Organize the work of the ERIC for new EU projects



- the AtlantOS H2020 project (Apr 2015-Mar 2019):
 - The tender for 7 bio-Argo and 7 deep float purchase was issued on the 12th November
 - Offers will be received second half December.
 - The ad-hoc committee will be set up to examine the offers as mentionned in the Financial Rules
 - coordination of the data management activities :
Started at KO in June
 - development with Euro-Argo partners of actions related to the future sustainability of the Bio-Argo and Deep-Argo components of the Argo.





Continue seeking for additional funding with EC

- MOCCA proposal was accepted and signed 18th June by Program Manager
- Final meeting E-AIMS is organized with the participation of DG-MARE, DG Research, Copernicus, EEA, EuroGOOS, Mercator and ECMWF on the extensions of Euro-Argo
- Euro-Argo recognized as a Task Team of EuroGOOS
- Euro-Argo work in close collaboration with EuroGOOS in the preparation of discussions with EEA in charge of in situ coordination for Copernicus. An MoU was signed at EuroGOOS annual meeting in May





EuroArgo ERIC is participating in:

- AtlantOS: Optimizing and Enhancing the Integrated Atlantic Ocean Observing System (62 partners from 18 countries)

H2020 BG - Duration 51 months - Budget: 20,7 ME (0,8 ME for E-A)

- ENVRI+: Environmental Research Infrastructures Providing Shared Solutions for Science and Society - H2020 INFRADEV - Duration 48 months – Budget 14,6 ME (0,27 ME for E-A)

ENVRIPLUS is a cluster of research infrastructures (RIs) for Environmental and Earth System sciences, built around ESFRI roadmap and associating leading e-infrastructure and Integrating Activities together with technical specialist partners. ENVRIPLUS is driven by 3 overarching goals: 1) favoring cross-fertilization between infrastructures, 2) implementing innovative concepts and devices across RIs, and 3) facilitating research and innovation in the field of environment to an increasing number of users outside the RIs.





MOCCA project

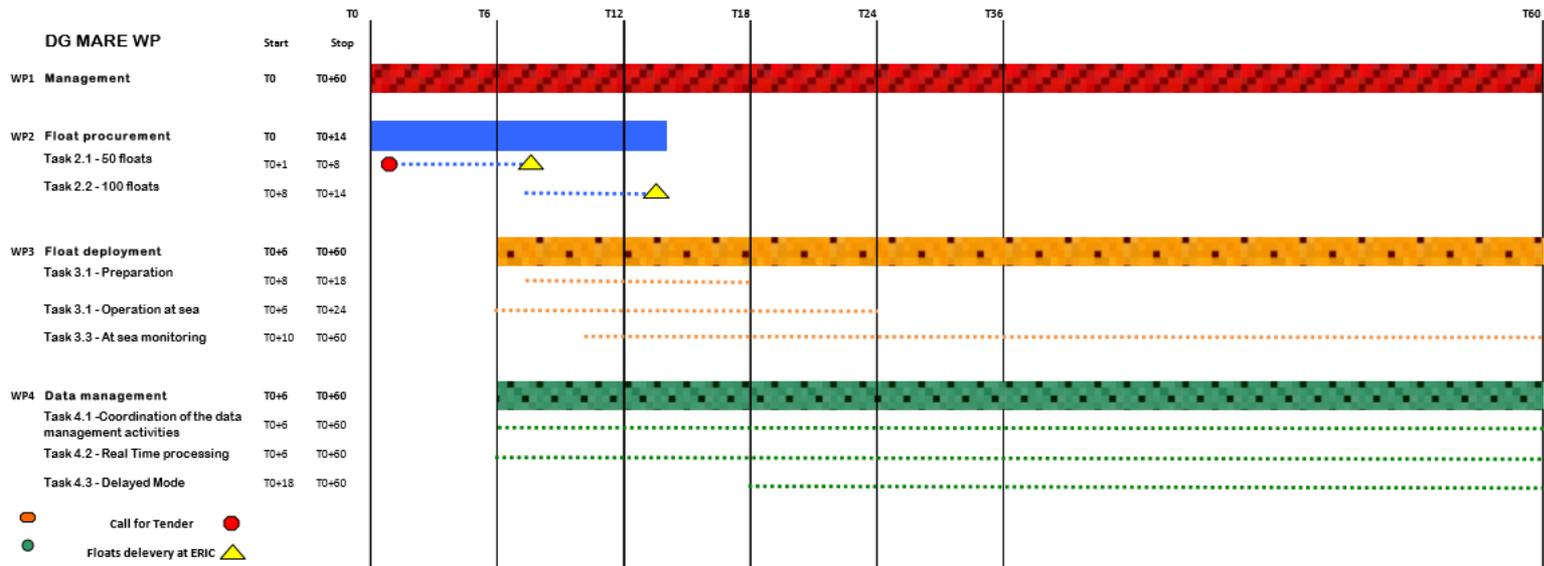
Monitoring the Oceans and Climate Change with Argo

2015 -2020 4ME DG MARE

- Call for Tender was released the 30th of July 2015 for the supply of 150 hydrological profiling floats.
 - This call was split into two lots, one for ARGOS communications floats, one for Iridium floats.
 - Both technical scoring and financial one set NKE as the awarded competitor
 - Decision to procure
 - 20 Argos floats with at sea warranty
 - 130 Iridium without additional at sea warranty (still guaranteed for 36 cycles)
 - Total : 1 884 600,00 €
 - Estimation of the cost of the transmission
 - Budget : 220k
 - Argos $30\text{€} * 12\text{months} * 4\text{years} * 20\text{floats} = 28\ 800$
 - Iridium
 - Argos resolution $(15\text{€} + 3\text{€}) * 12\text{months} * 4\text{years} * 130\text{floats} = 112\ 320\ \text{€}$
 - Up to 1000 pts $(15\text{€} + 15\text{€}) * 12\ \text{months} * 4\text{years} * 130\text{floats} = 187\ 200\ \text{€}$

ERIC EuroARGO
IFREMER
BODC
BSH
OGS
MetOffice

MOCCA project Time table





2016 Work Plan



Euro-Argo: A new European Research Infrastructure



- ERIC C-RI plans to work in 2016 along six main activities:
 - Coordination of Euro-Argo float deployment and float monitoring activities
 - Perform the work of the ERIC within the EU projects (MOCCA AtlantOS and Envri+)
 - Implementation plan for the Euro-Argo including the extensions
 - Enhance communication and outreach (incl. scientific community)
 - Continue seeking for additional funding with EC





- **Update the Euro-Argo WWW** site to take into account the progress made by the Euro-Argo members and observers. <http://www.euro-argo.eu/>
- Take the appropriate actions to facilitate the update of **the educational WWW** site. <http://www.euroargo-edu.org/>
- Organize material for training workshop and plan at least one linked with MOCCA activities
- Organized Events related to MOCCA and AtlantOS to advertise EU support to the ERIC
- With the help of the Management Board will **participate to scientific conferences** to highlight Euro-Argo activities to a wider community.





Coordination of Euro-Argo float deployment and float monitoring activities

- The C-RI will coordinate Euro-Argo float deployment within the Argo International context.
 - **review the amount of floats** that each country will purchase and monitor the European contribution to the network. **At Mgt Board**
 - **consolidate** with Euro-Argo partners **the deployment plans** to contribute the more efficiently to the grid completion.
 - **interact with the Argo Information Centre and the JCOMMOPS Ship coordinator** to improve information on deployment opportunities.
 - Work with Euro-Argo partners on the **improvement of at-sea monitoring** of the Euro-Argo fleet (**MOCCA funds**)
 - better monitor the performances and the deficiencies of the Euro-Argo fleet
 - be able to take actions rapidly in case of failure
 - interact with manufacturers for improvement or anomalies corrections.





Development of a long term roadmap for Euro-Argo incl. implementation issues

- The ERIC C-RI will work with the Management Board to finalize the Euro-Argo Strategy in link with Argo International and Euro-Argo STAG
 - to **specify common objectives** taking into account and contributing to similar discussions that are taking place at International level within Argo.
 - Specific highlight on the design of **Deep Argo and Bio-Argo** components within AtlantOS .





- Continue **seeking for long term EU funding** in particular with **DG-MARE** and **EMODnet** to get sustained funding for Euro-Argo for both the core mission and its extensions with deep Argo and bio-Argo.
- Euro Argo **under the EUROGOOS umbrella** will continue to interact with the other components of the in situ obs system to promote **the development of an EOOS**

