

**3RD SEAS-ERA STRATEGIC
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WP2 Common programme

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Key outputs of the work package

For the Atlantic region : The alignment of the national programmes converges to address the long term evolution monitoring.

Title: INTERNATIONAL LONG TERM MONITORING OF THE NORTH EAST ATLANTIC to follow impacts of climate change

- **A pilot action proposed to JPI OCEANS** for sharing vessels facilities to achieve of long term commitment for common programmes on impact of climate change on physical circulation, geochemical and biological consequences in North Atlantic Ocean. The final goal is to build :

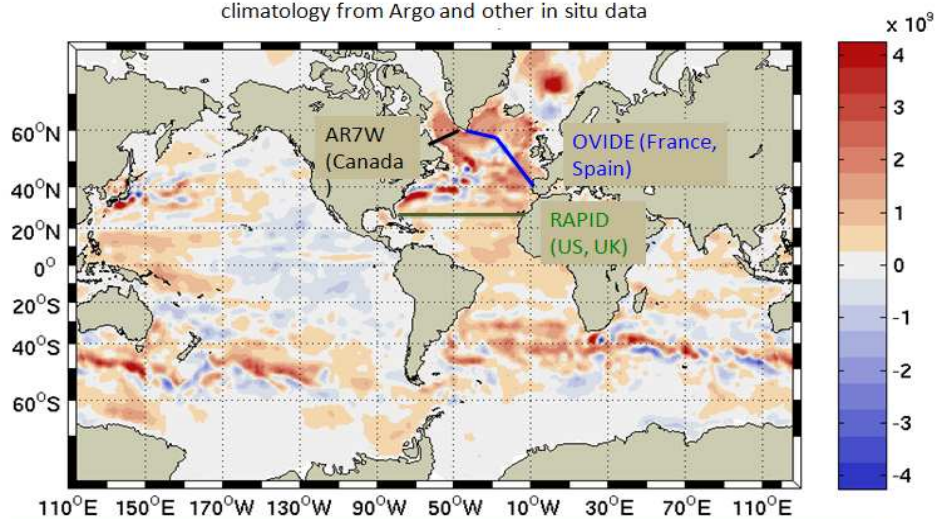
- 1) a scientific programme
- 2) an agreement between fleet managers for trans-Atlantic international campaign with scientists of all the interested countries

- **Involvement in the Atlantic Ocean Research Alliance (EU, US, Canada) and its Galway declaration (May 2013)** → long-term ocean observations, such as are proposed under the GEO and Copernicus initiatives, are critical for implementation an ecosystem-based approach to resource management – and that it is the responsibility of the EU and the Member States to find appropriate ways, including Public-Private partnerships, to finance the operational aspects of these observations

- **Galway H2020 outputs: BG-8-2014** “Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources“
The BG8 topic can be used as a **demonstration case for optimized transects**, to replicate for other in situ ocean observations.

North-Atlantic repeated transects

Heat content anomaly 0-1500 m (2002-2012) compared to a reference climatology from Argo and other in situ data



Monitor and understand heat content changes and anthropogenic carbon storage in the North-Atlantic in combining :
repeated transects + Argo + altimetry + air-sea heat fluxes + other observing system

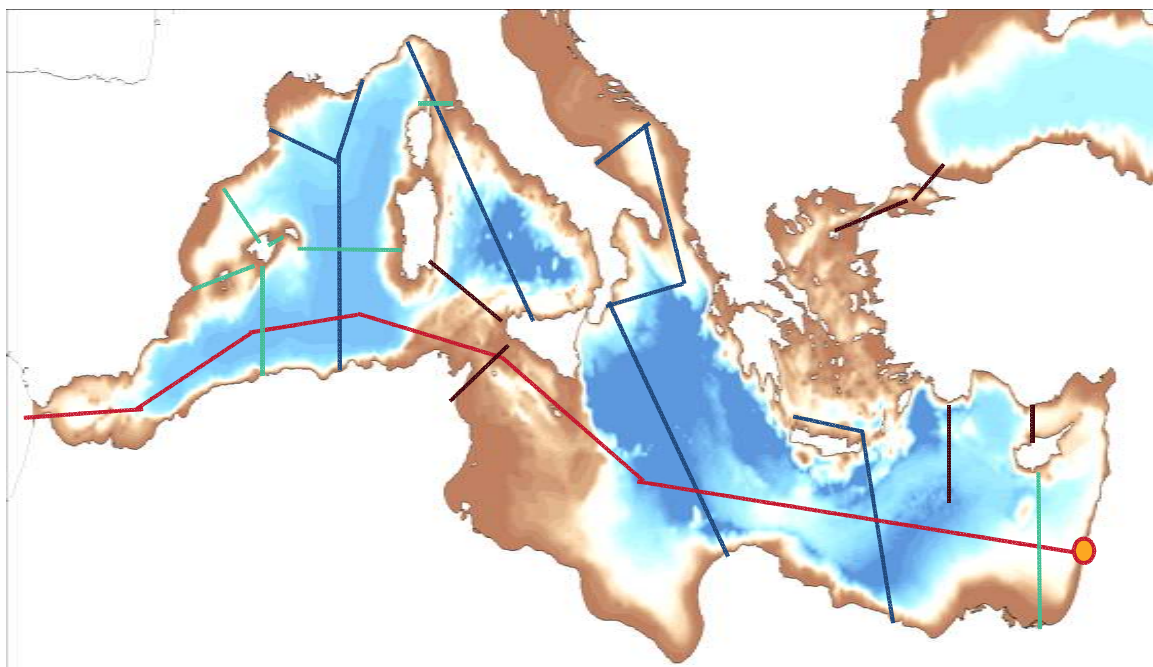
Key outputs of the work package

For the Mediterranean Sea :

INTERNATIONAL LONG TERM MONITORING to follow impacts of climate change as that there is an urgent need to sustain cross-Mediterranean surveys, incl. to share vessels between the countries that are interested.

- The scientific community of the Mediterranean region have **large difficulties in establishing long term monitoring activities** to follow the physical impacts and biogeochemical changes in relation with climate change. These actions are not supported by grants and proposals of the EU and the national budgets are declining
- **A proposed case study MedSHIP through an Expression of Interest (Eoi)** : the Mediterranean component of the Global Ocean Ship-based Hydrographic Investigations Programme (GO-SHIP) has been proposed to the Eurofleet 2 super integration call and is selected for the step 2 (Scientific Review Panel) → results soon in 2014
- **Common actions for H2020 next programming (2016-2017) focusing on the Med** can be proposed, some of them for the optimization of observing systems including coordination and sharing infrastructures such as vessels, and within an ALLIANCE for Mediterranean countries including the non EU partners to implement new way of cooperation between North and South (eq. "BG-8 and BG-14" for Med Sea)

MedGO-SHIP initiative



→ MedSHIP proposal to the EuroFLEET2 super integration call (PI: K. Schroeder / ISMAR-CNR)

Future perspectives of the work package

- For both regions : elaborating international detailed scientific programmes with a multi-annual perspective, with the major partners for alignment of national existing programmes in Atlantic and for establishing a new one for the Med
- Establishing a network of fleet managers to examine concrete solutions for sharing vessels for the international programme
- Following the 2 cases studies: success and failures for the BG8 project and EUROFLEETS call

Conclusions

- Alignment of common programmes is a step by step approach.
- WP2 “common programme” in connection with WP4 “infrastructure” initiated the processes since 3 years with 4 workshops
- Some positive results: Galway declaration and H2020 topics: BG8 case study and BG14 Transatlantic alliance with a specific request for “shared use of Atlantic research infrastructures”
- JPI OCEAN : a tentative action with a specific case study on these issues under CSA WP on infrastructure
- A proposed alliance for the Med to continue to address these issues

For more information (Seasera Website)



Programme implementation

