

- Data accessible easily from a unique point
- Data coherent in term of :
 - ⇒Data format
 - ⇒Data Quality
 - ⇒Processing chain (clearly documented)
- Additional requirements for Monitoring and forecasting users
 - ⇒Data are available in near real time (within less than 24 hours)
 - ⇒Data are available in delayed mode after calibration and /or validation

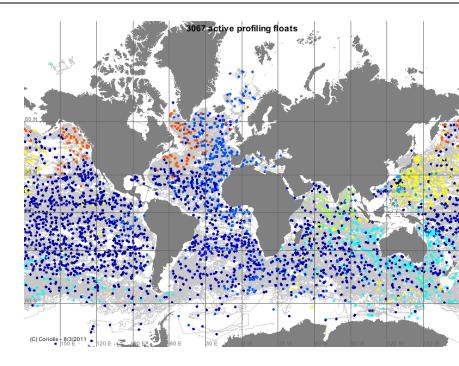
- Get more observations than they could afford alone
- Operate jointly part of the network
- Benefit from the other partners' experience from design to implementation to data management and user uptake

A key sentence for payers:

Acquire once Use multiple?

Some success stories in the marine domain

 Argo: more than 3000 floats sampling T &S on the global ocean from surface to 2000m on a 3°x3° grid



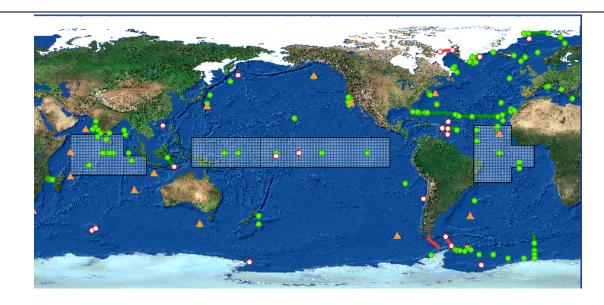
- •Both Information, Scientific and Data management activities organized since the start of Argo
- Coordination of the deployments at international level
- •Two single portals (GDACS), synchronizing themselves, to get best copy of the Argo data in a unique format
- Common methods for Quality control in real-time AND Delayed mode
- •Organising sustainability in Europe through Euro-Argo ERIC (European Research Infrastructure Consortium)



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Some success stories in the marine domain

OceanSites: 60 reference multiparameter sites for the global ocean from surface to bottom providing long time-series



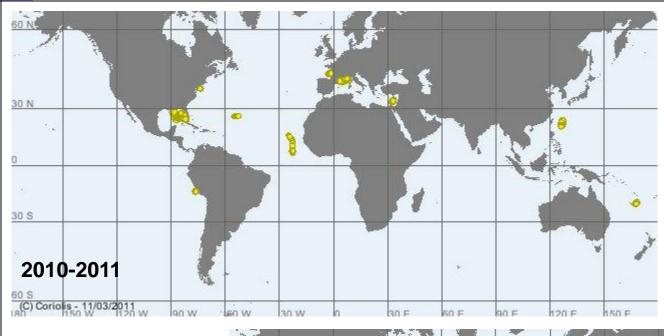
- •Starting long time ago as independent research sites
- •Recently set up 2 single **portals** (GDAC) to get best copy of the OceanSites data in a unique format
- •Working on Common methods for Quality control in real-time first but also in Delayed mode
- Organising sustainability in Europe through Euro-Sites consortium

What About Gliders

- As for OceanSites, Glider activities are presently driven by individual research drivers
- As for Argo and some OceanSites Sites, Gliders can deliver realtime data for core parameters (T, S Current, Chl, O2) that are useful for both research an operational users
- Commonality with these two networks should be used for
 - ⇒ Developing integrated Data Management system
 - ⇒ Common Data format to users
 - ⇒ Real –time QC of core parameters
- Gliders are complementary to other platforms and synergy should be developed
 - ⇒ Developing a deployment strategy for other needs than pure research (ie. GMES Marine Core Service in Europe)

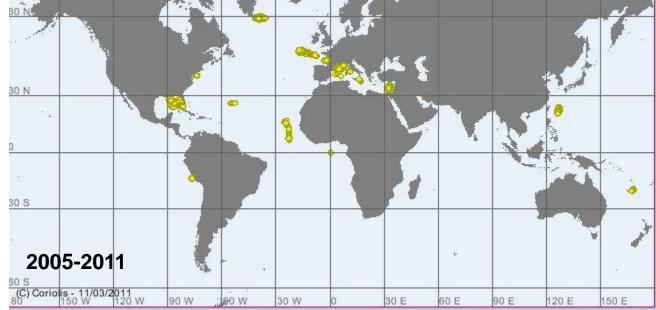
- Set up a prototype GDAC FTP with the Glider data available at Coriolis
- Use the OceanSites NetCDF format
- First integrate as much Metadata (Who, What, When, Where, How) as possible in the global attributes of the NetCDF files
- Second study with OceanSites SensorML a more complete platform description (still progressing)

A first prototype of Glider GDAC exists





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A first prototype of Glider GDAC exists

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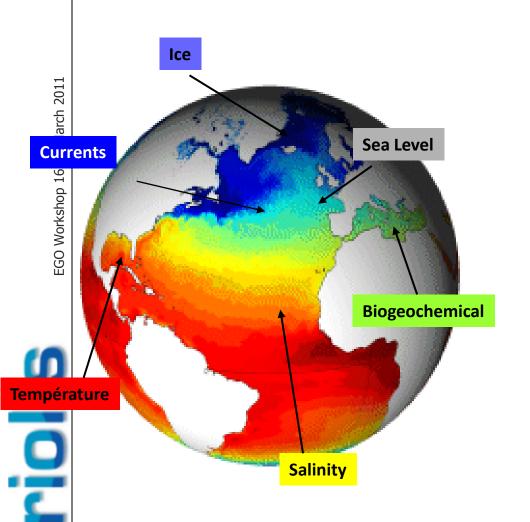
- 25 different Gliders (mainly EU) Very few compared with the number deployed ...But a lot on a best effort basis already
- About 10 Institutes
- Updated daily (Real Time data)
- Argo RTQC applied on T& S

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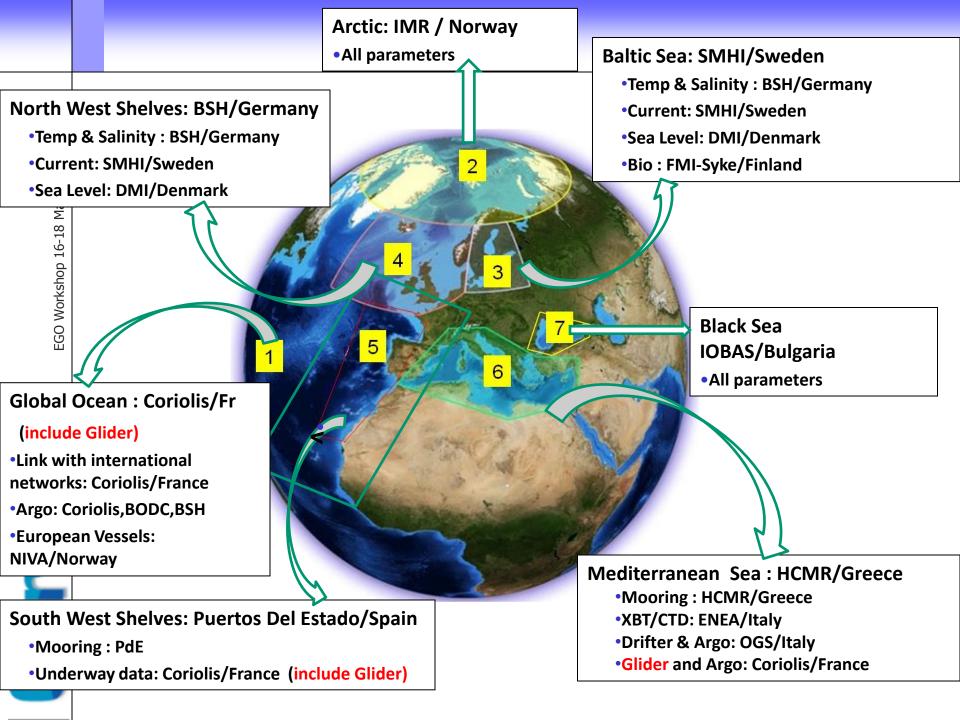
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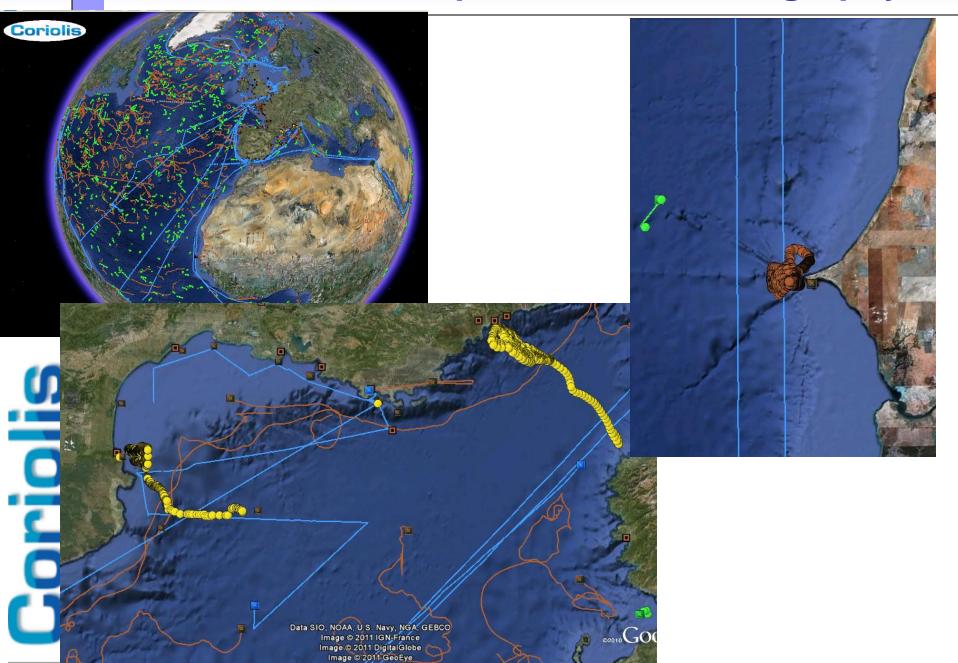




A 3D and dynamic vision of the ocean



Glider data for Operational Oceanography



Next Steps for Integrated Data Managem ent of aGlobal Glider network

- Organize the data management activities both
 - ⇒at international level including the link to JCOMM
 - ⇒at regional level (ie EU level within GROOM FP7 project if funded)
 - ⇒With link with a Glider steering/science team that would provide the priorities for the network and develop the scientific procedure that need to be implemented by the Data management system
- Set up a Glider Data Management team that would involve the Glider data managers of the Institutes operating gliders that want to be part a global Glider network

Next Steps for Integrated Data Management of a Glabal Glider network

- Define terms of reference for this group that could contain
 - ⇒Definition of the data management elements and their role
 - ⇒Definition common parameters that would be delivered by all members to be part of the network
 - ⇒Define dissemination services
 - ⇒Define Real-Time data stream and Real Time Quality Control procedures
 - ⇒Define how to deliver delay mode data at least for the data delivered in Real Time
 - ⇒Define Delayed mode data stream and common procedures for core parameters
 - ⇒Organize the links with the Argo and OceanSites data management teams to guaranty interoperability
 - ⇒???