

# COST Action ES0904: European Gliding Observatories Network (EGO)

## Objective:

- Coordination of ongoing and future research using gliders (single & fleets)
  - cost-effective methods
  - Research & operational/monitoring applications (global, regional, coastal)

## Action Duration:

01. September 2010 – 31. August 2014

# Working groups COST Action ES0904

- WG 1: Support for glider deployments and data dissemination
- WG 2: Gliders, sensors, and “gliderports”
- WG 3: Piloting gliders and artificial intelligence
- WG 4: Networks, links with the other observing systems and OSSEs
- WG 5: High resolution 4D oceanic measurements by gliders and process studies

# Working groups COST Action ES0904

- WG 1: Support for glider deployments and data dissemination
- WG 2: Gliders, sensors, and “gliderports”
- WG 3: Piloting gliders and artificial intelligence
- WG 4: Networks, links with the other observing systems and OSSEs
- WG 5: High resolution 4D oceanic measurements by gliders and process studies

# **WG 4: Networks, links with the other observing systems and OSSEs (Observing Systems simulation experiments)**

## **Deliverables:**

### **1) Observatory (moorings) synthesis**

Optimal missions, distribution, location of glider sections in respect to regional/deep sea observatories

### **2) Argo (float) synthesis**

Optimal missions, distribution, location of glider sections in the ARGO array at global scale and for regional/marginal seas

### **3) Optimization**

Developments of OSSEs & “network design” methodologies for assessment of the aimed network topologies

# Call for participation in WP4

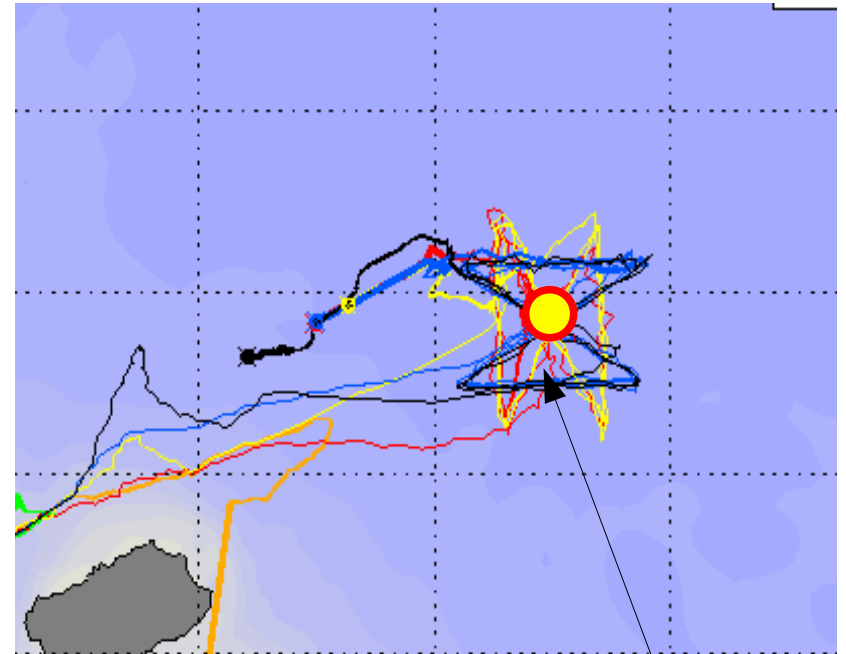
## 1) Observatory (moorings) synthesis

- Who is interested?

# Call for participation in WP4

## 1) Observatory synthesis

- Who is interested?
- Which missions/analysis exists?

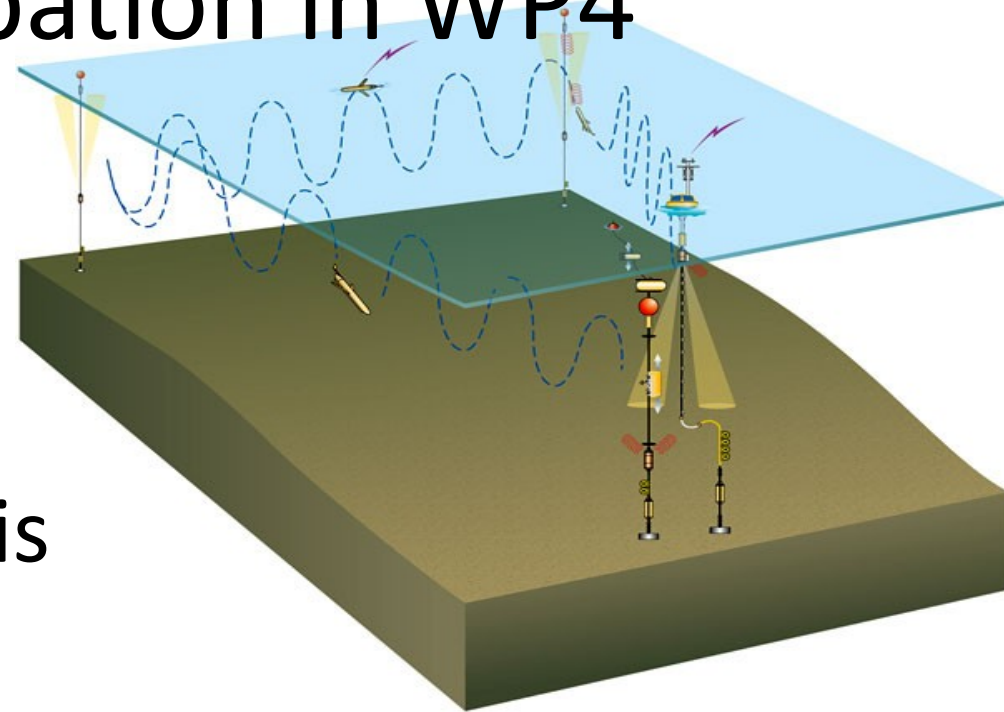


OceanSITES  
mooring

# Call for participation in WP4

## 1) Observatory synthesis

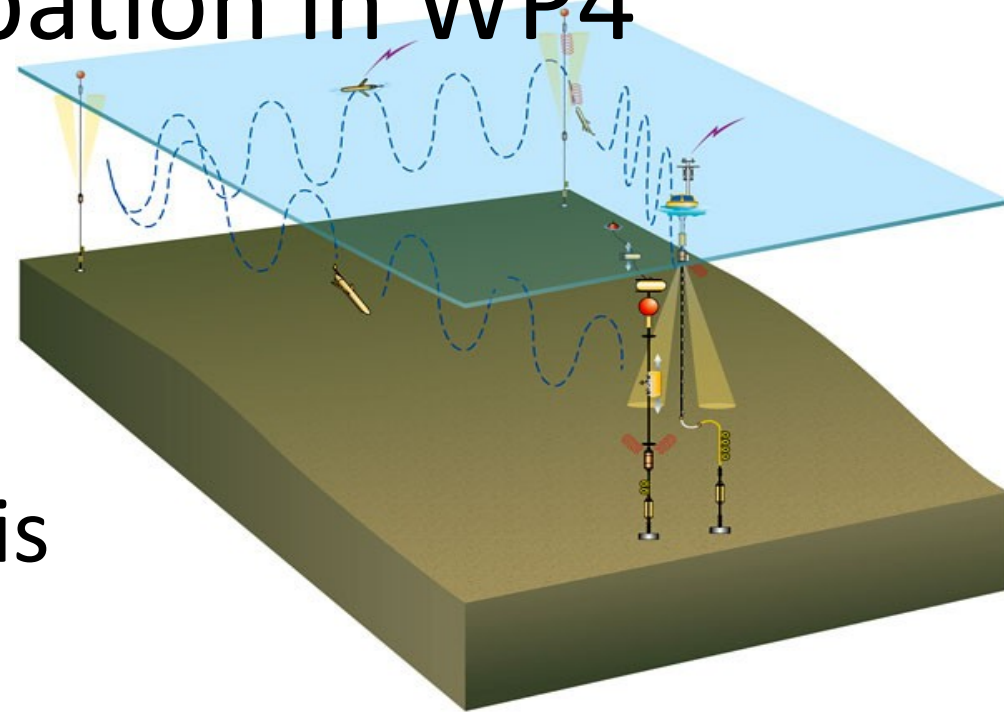
- Who is interested?
- Which missions/analysis exists?
- Ad-hoc/sustained plans? (as in U.S. OOI)



# Call for participation in WP4

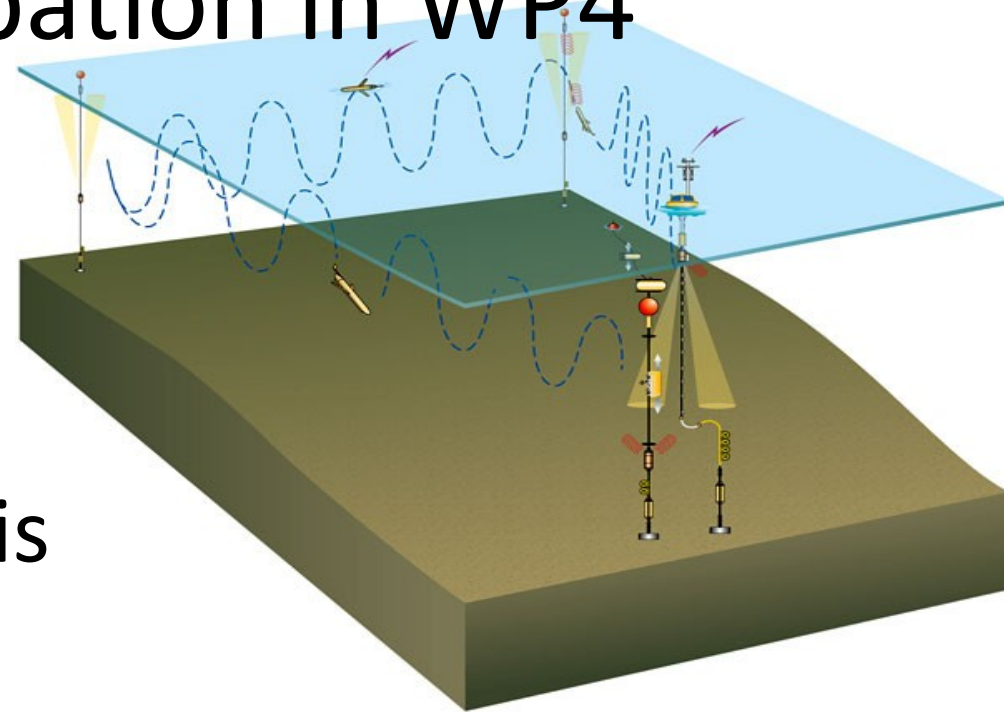
## 1) Observatory synthesis

- Who is interested?
- Which missions/analysis exists?
- Ad-hoc/sustained plans? (as in U.S. OOI)
- Possible funding? (e.g. GROOM)





# Call for participation in WP4



## 1) Observatory synthesis

- Who is interested?
- Which missions/analysis exists?
- Ad-hoc/sustained plans? (as in U.S. OOI)
- Possible funding? (e.g. GROOM)
- Monitoring aspects (national/EU funding)

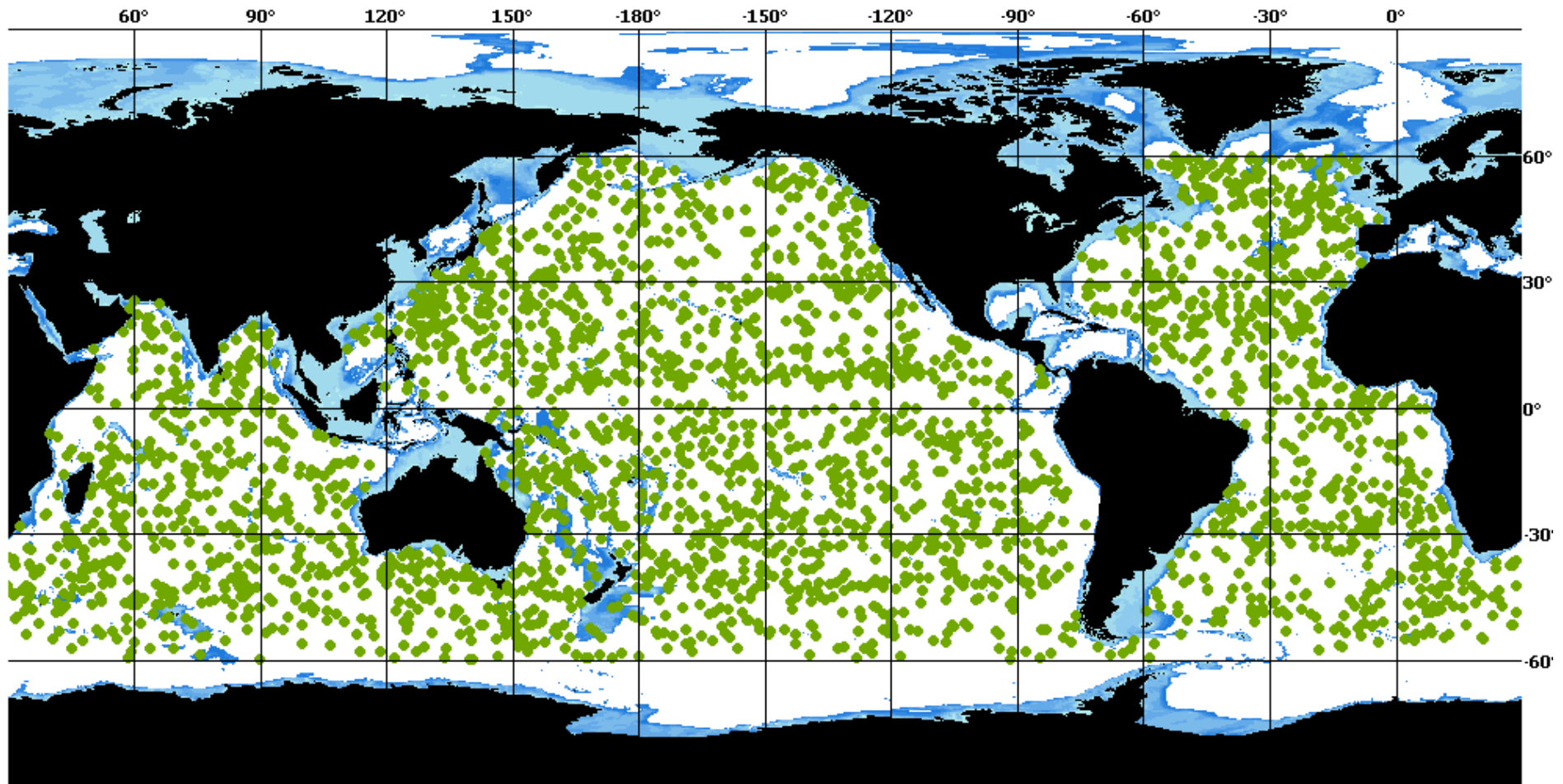
# Call for participation in WP4

## 2) Argo (floats) synthesis

- Who is interested?



# Call for participation in WP4



Argo Core Mission

*60°N - 60°S, no marginal sea, data available, no greylist, no beaching*

February 2011

*Target 3200*

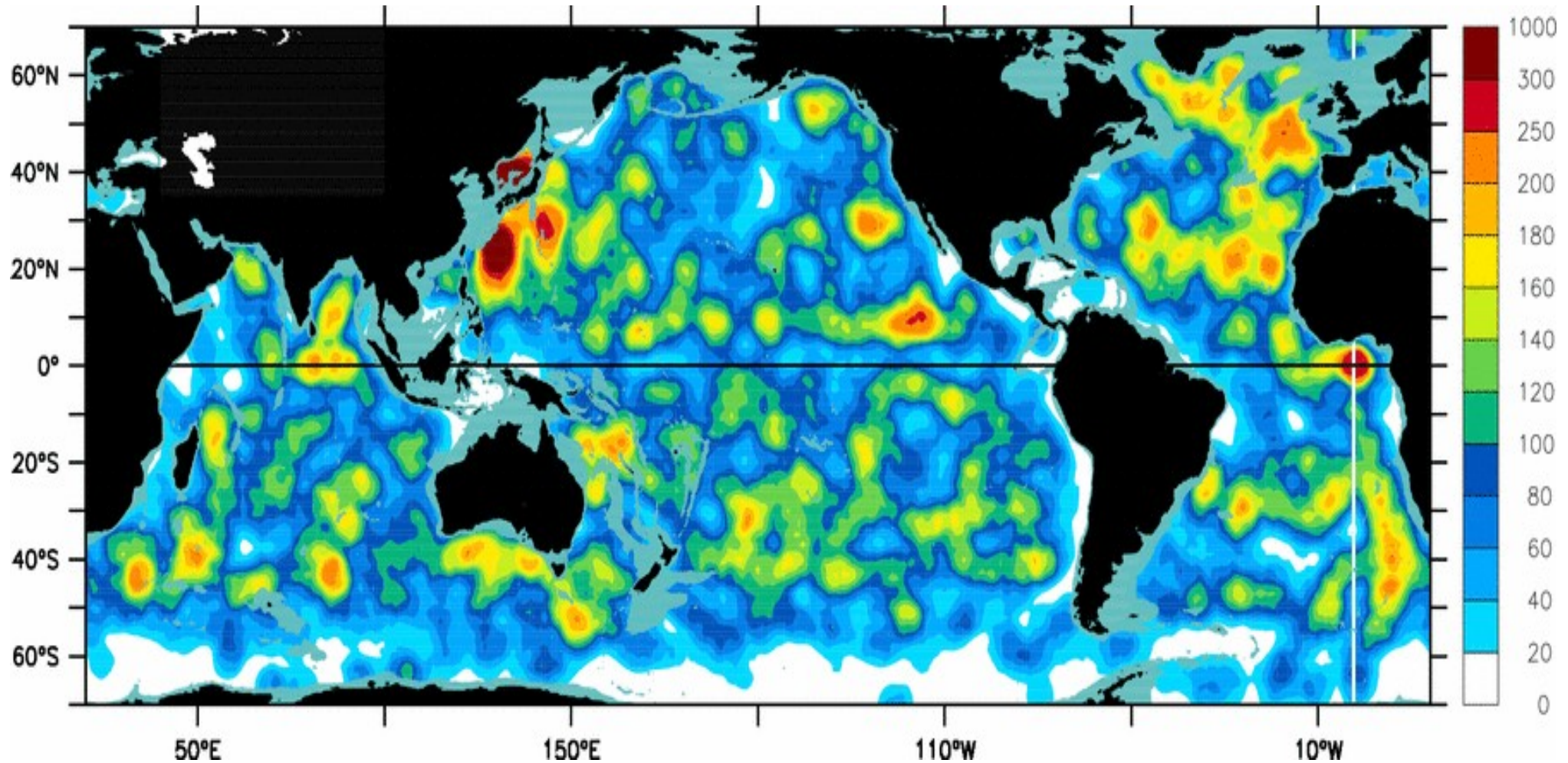
*Operational 2900*



1<sup>st</sup> COST ES0904MC meeting  
Telde, Canary Islands, Spain

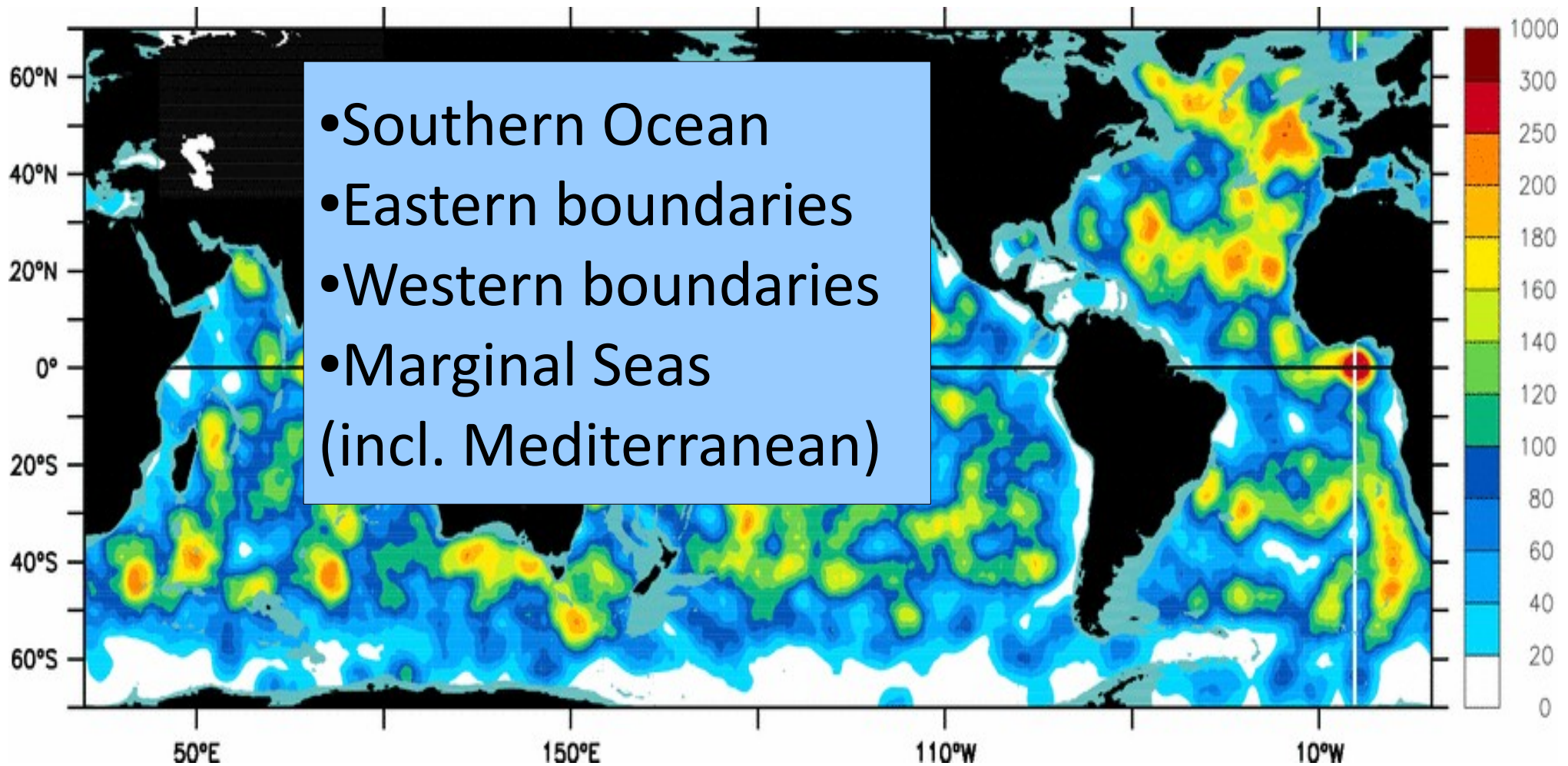


# ARGO worldwide density (28. Feb. 2011)



1<sup>st</sup> COST ES0904MC meeting  
Telde, Canary Islands, Spain

# ARGO worldwide density (28. Feb. 2011)



# Call for participation in WP4

## 2) Argo synthesis

- Who is interested?
- Contact with Argo community:
  - What level?
  - EGO has to fill gaps of Argo (not vice-versa)

# Call for participation in WP4

## 2) Argo synthesis

- Who is interested?
- Contact with Argo community:
  - Glider exist already for Argo

**March 2011 Argo Steering Team meeting:**

***“Glider data – Argo Steering Team (AST) encourages a small international working group to form. It is currently not clear that the Argo data format is ideal for glider data.***

**→ probably more important for WP1**



# Call for participation in WP4

## 3) Developments of Oobserving System Simulation Experiments (OSSE) & “network design”

- Who is interested?



# Call for participation in WP4

## 3) Developments of Observing System Simulation Experiments (OSSE) & “network design”

- Who is interested?
- Activities?  
Large scale/small scale?

# Call for participation in WP4

## 3) Developments of Observing System Simulation Experiments (OSSE) & “network design”

*Press release*

FOR IMMEDIATE RELEASE 17th February 2011

**Gliders successfully used for the first time during  
an anti-submarine warfare exercise, Proud Manta 11**

*Test conducted by NURC, a NATO Research Centre in La Spezia*