



NATO  
+  
OTAN

***NURC** - Partnering for Maritime Innovation*

NURC



# Thinking about glider missions



# NURC Glider Missions



Fleet of 8 Teledyne Webb Research Slocums

- 6 shallow
- 2 deep (1 G2)

8 deployments in support of scientific experiments

- 4 fleet deployments with 3 – 6 vehicles
- 6 engineering trials (1 major, 5 minor)

**Glider days at sea**

~ 297

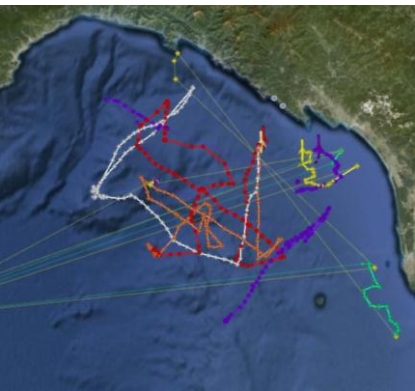
**Path length**

~ 7500 km

**Profiles**

> 20000

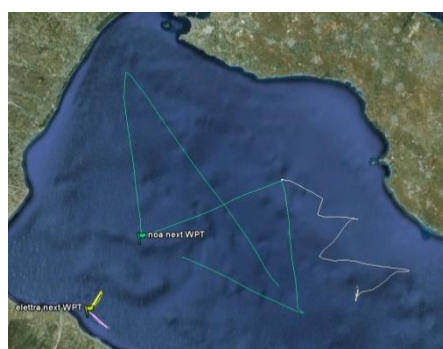
REP10 (Ligurian Sea)



REP11A (Gulf of Taranto)



REP11B (Gulf of Taranto)



POMA11 (East of Sicily)

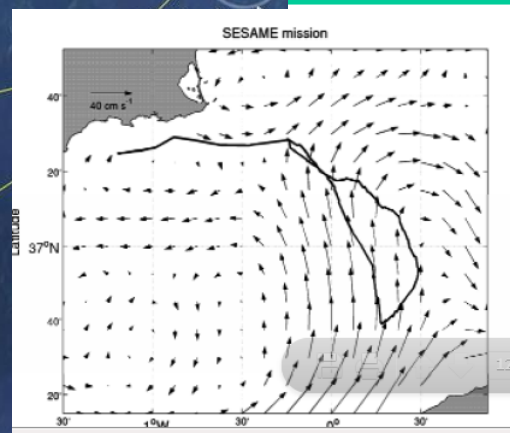
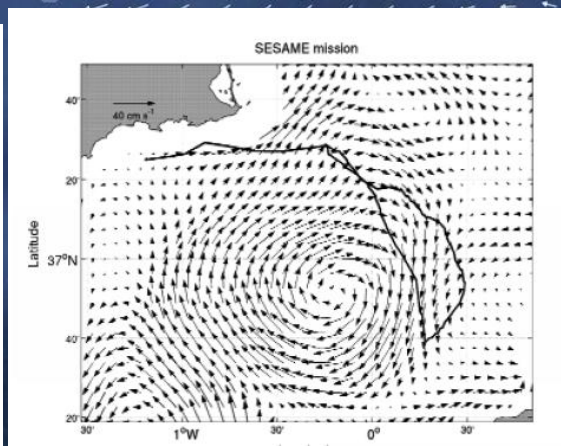
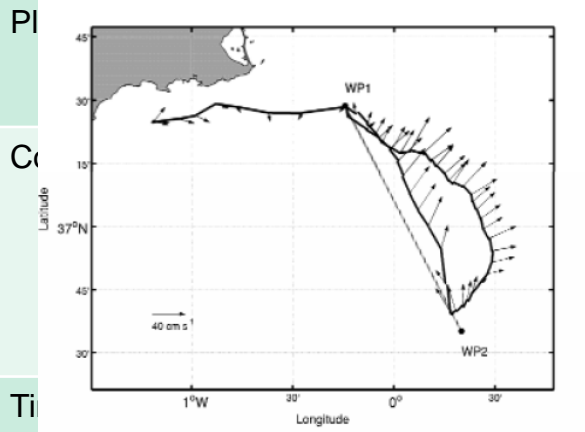


# Mission Preparation: Definition



**Objective:** To define the adequate mission parameters to accomplish scientific/operational requests

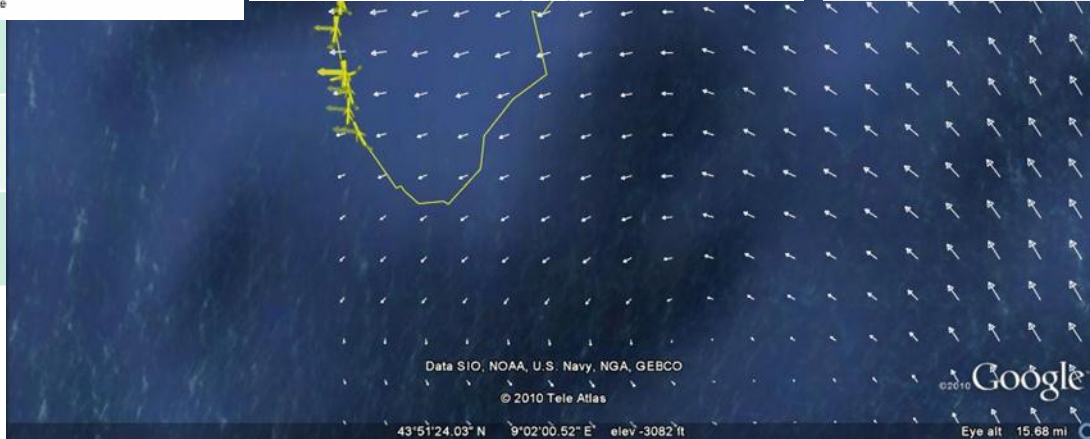
## Parameter/Action



Time

Behavior at waypoint

Mission simulation



er)

rs)

o)

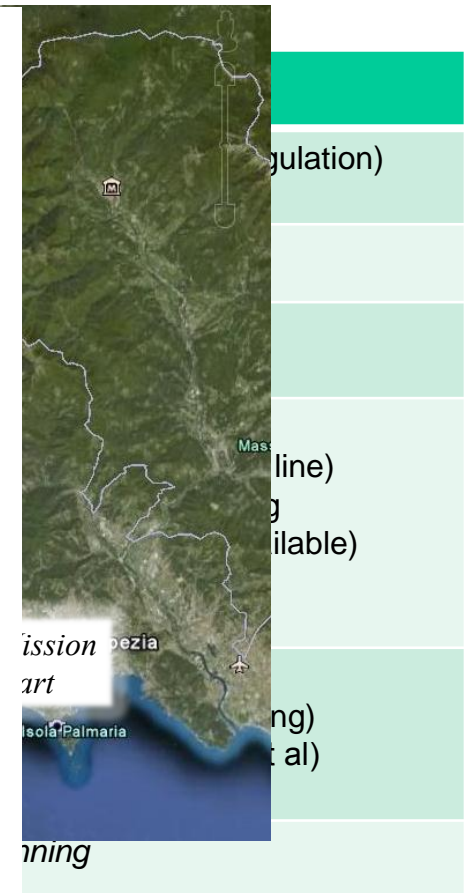
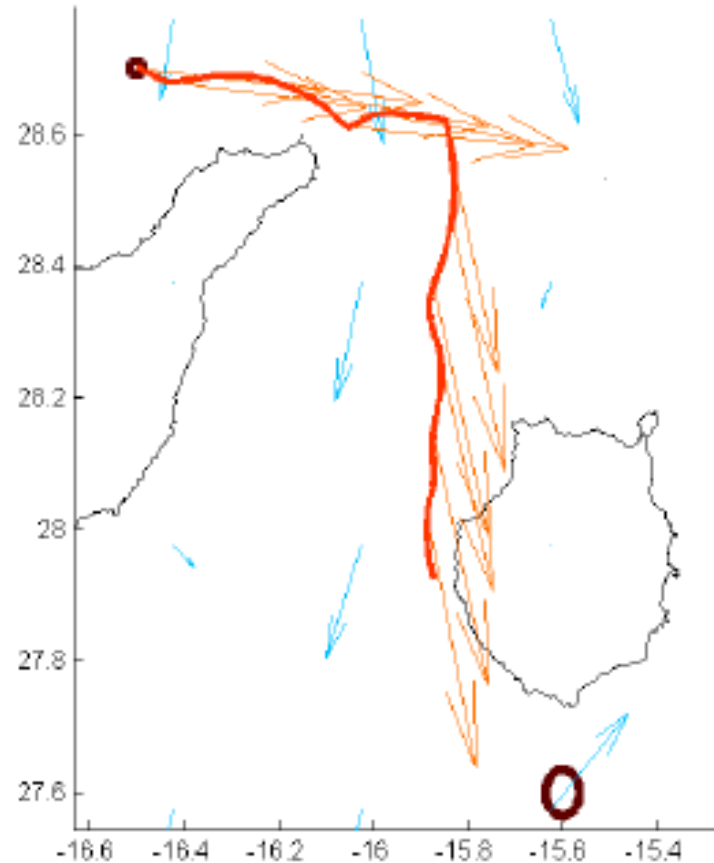
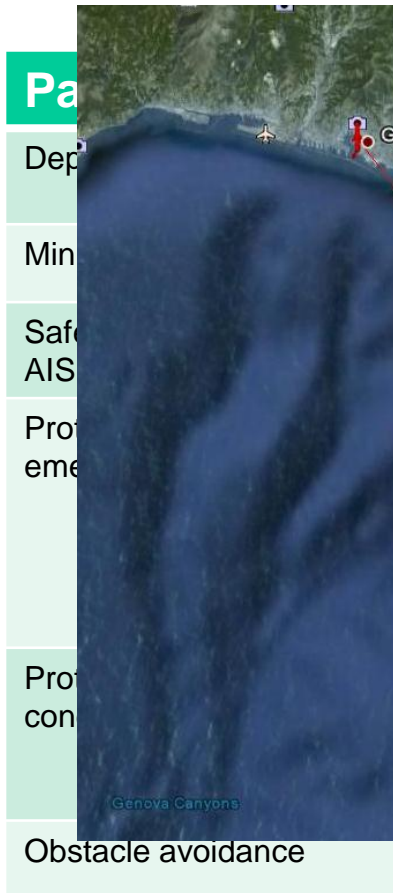
av. error)

SST, altimetry (Garau et

# Mission Preparation: Safety



**Objective:** To determine the conditions to minimize risks to the platform and third parties during the mission



# Mission start/end: Launching



**Objective:** To define the procedures for correct glider deployment and mission starting

## Parameters

Deployment plan

Control and coordination during deployment

Deployment test



(depending on developments)

(depending on sea

with phone or radio

ed set up)

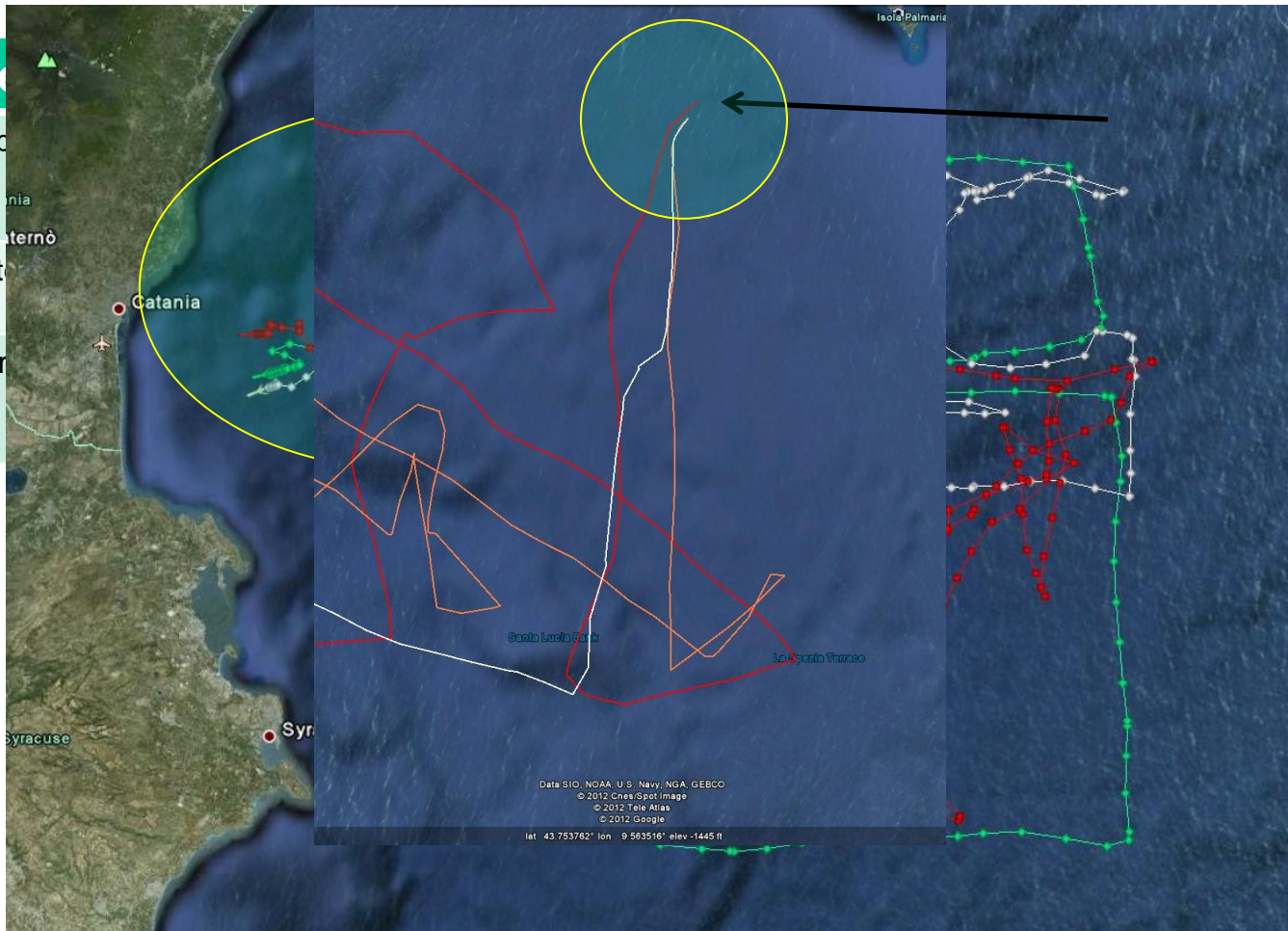
rom a test yo-yo  
ailable)

# Mission start/end: Recovery



**Objective:** To define the procedures for correct glider deployment and mission starting

Param  
Recovery p  
Recovery t  
Multiplatform



(development)  
(on sea state)  
(available)  
area

# Mission Control: Piloting



Global and regional views

The latest 30 days of data

Observing system networks

MOOSE

Argo

Argo Network description

Atlantic Argo Deployment coordination

European Contribution to Argo

French Contribution to Argo

Provor Float Developments

French Float Deployment

Data Management activities

Argo -France

Support to Data Mgt

GOSUD

OceanSITES

SOOP

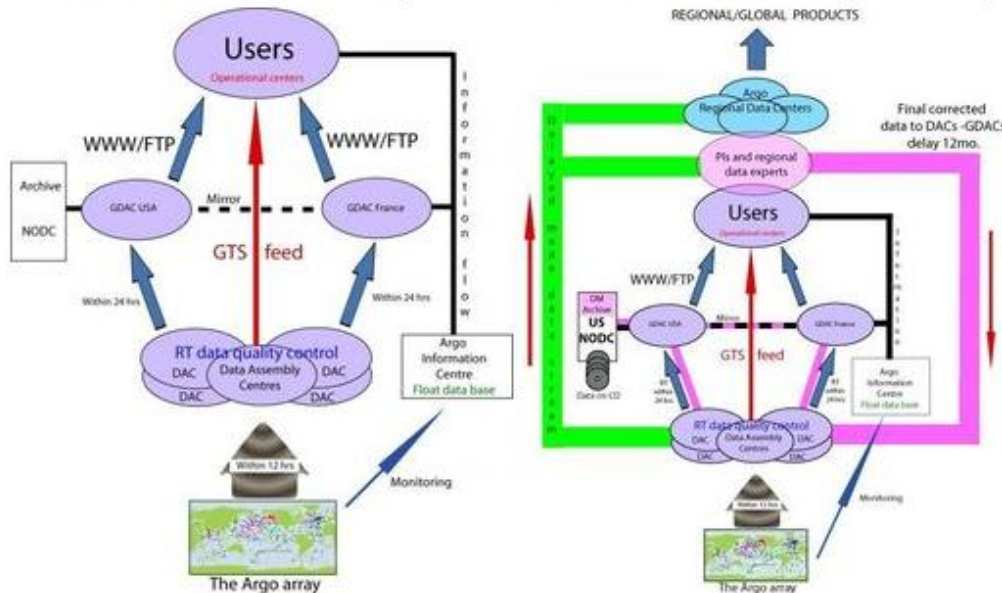
GTSPP

DBCp

EGO gliders

## Data Management activities

Coriolis is involved in the Argo Data Management activities at different level within the ARgo Data Management network.



Coriolis operates one of the two **GDAC** (Global Data Center) for Argo that provide access to the whole official Argo dataset. Profiles from eleven national Argo data centres are received, format and mandatory metadata are verified according to Argo agreements and data are made available on the Argo FTP site. Daily synchronisation with US Gdac is performed. Weekly temperature and salinity analysis. It's also consolidating the reference CDT database for ARGO in collaboration with CCHDO, US-NODC and Argo Arcs. [FTP GDAC site](#)

It acts as a **DAC** and processes float data deployed by France, float data and in addition data from different European (Germany, Spain, Netherlands, Norway, Italy) and non European countries (Chili, Costa Rica, Mexico). New floats are added into the system as they are deployed. Within Argo data

# Discussion Synthesis and Conclusion



*Mission Preparation: Definition and Safety*

*Mission start/end: launching and recovery*

*Mission control: piloting*