



The GMES Marine Service and its MyOcean project: a user and provider of surface current data.

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MyOcean

Marine
Core
Servic
e





- n What is MyOcean ?
- n MyOcean in the world (GODAE OceanView)
- n MyOcean and the ocean currents

1

Core Service



What is MyOcean ?

MyOcean

Marine
Core
Servic
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ESA DUE Globcurrent users consultation meeting - 7-9 March 2012 -

MyOcean in a nutshell

n MyOcean is a **PROJECT**

- An FP7 project, the GMES « Marine Fast Track » project
- 3 years ; has started on 1st April 2009, will end 31 March 2012
- Cost 20 M€/year, with 11 M€/year EC funding
 - **2009 – 2010 – 2011 – (2012)**

n MyOcean is a **SERVICE**

- The main component of the « **GMES** » Marine Core Service
- Global & regional Ocean monitoring and forecasting
 - **Marine Core Service**

n MyOcean is a **TEAM** of European partners

- 61 partners, out of 29 countries ; an effort of ~150 person/year
- 20 core partners committed for operations; european best monitoring and forecasting systems
 - **Pan-European team**

The Mission

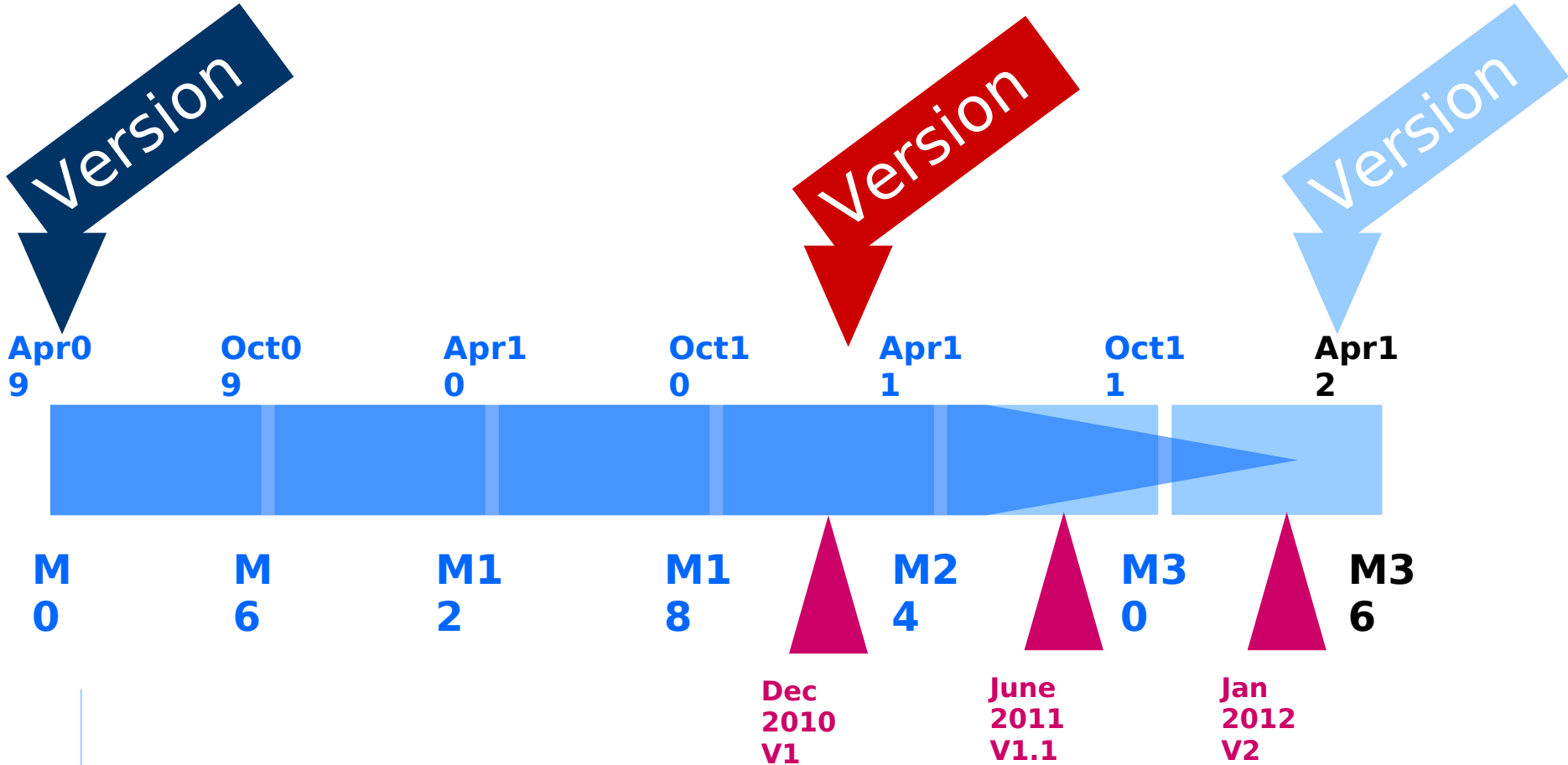
OBSERVATION

ANALYSE AND FORECAST

END-USER

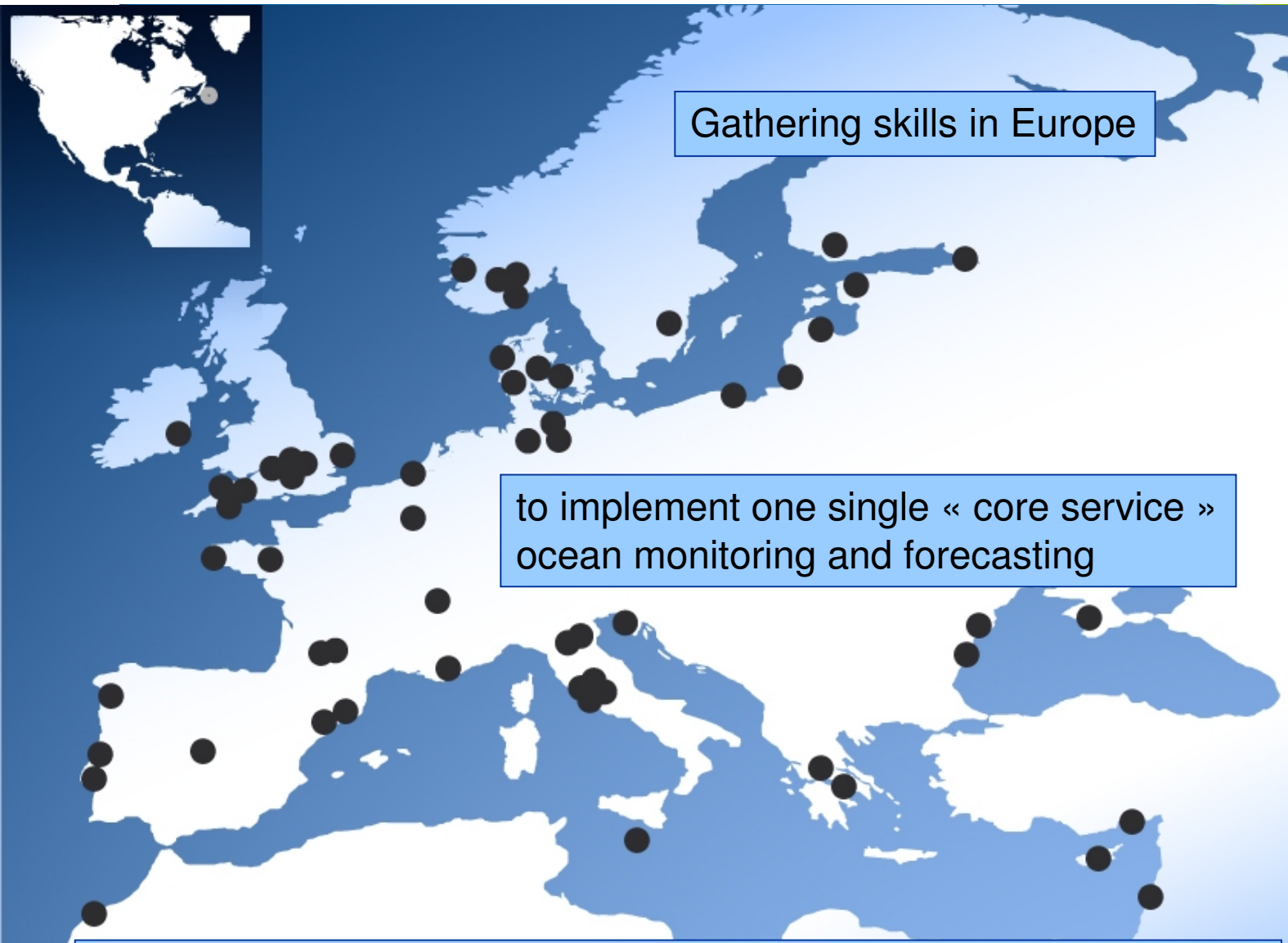











- ▶ Marine safety
- ▶ Marine resources
- ▶ Climate and seasonal forecasting
- ▶ Marine and coastal environment





Gathering skills in Europe to implement an *integrated* **Marine Core Service**



-  Belgium
-  Bulgaria
-  Canada
-  Cyprus
-  Denmark
-  Estonia
-  Finland
-  France
-  Germany
-  Greece
-  Ireland
-  Israel
-  Italy
-  Latvia
-  Lithuania
-  Malta
-  Morocco
-  Netherlands
-  Norway
-  Poland
-  Portugal
-  Romania
-  Russian
-  Slovenia
-  Spain
-  Sweden
-  Turkey
-  Ukraine
-  United Kingdom

**61 PARTNERS
FROM 29 COUNTRIES**
are involved in the project

« MyOcean » is a GMES EC/FP7 project committed to implement the European Marine Core Service

Organization in Production Centres

5 Thematic Assembly Centres

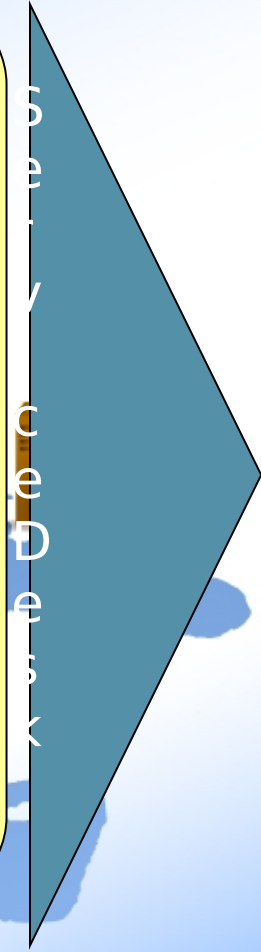
7 Monitoring and Forecasting Centres

Observations

- Sea Level
- Ocean Color
- Sea Surface Temp
- Sea Ice & Wind
- In Situ

Models

- Global Ocean
- Arctic Ocean
- Baltic Sea
- Atlantic NWS
- Atlantic IBI
- Mediterranean Sea
- Black Sea



TAC

- Sea Level
- Ocean Color
- Sea Ice & Wind
- In situ
- Sea Surface Temperature

MFC

- MFC Global
- Arctic
- Baltic
- NW Shelves
- IBI
- Med Sea
- Black Sea

MyOcean System maturity growth

**More capabilities:
functionalities, features, services**



**More
Products**

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Core Service



MyOcean in the world: GODAE OceanView

MyOcean

Marine
Core
Servic
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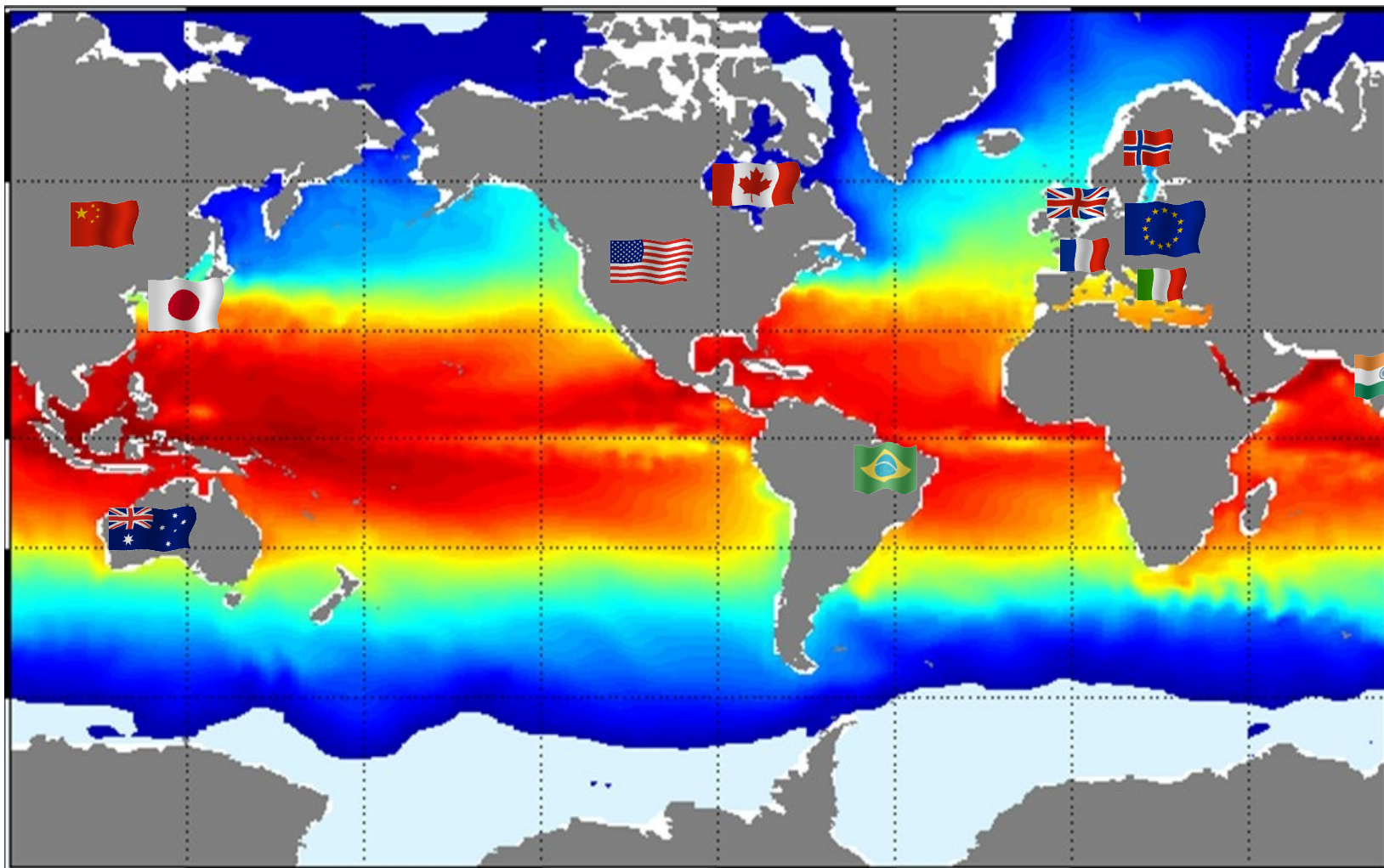


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Ocean Monitoring and Forecasting **Services** in the world

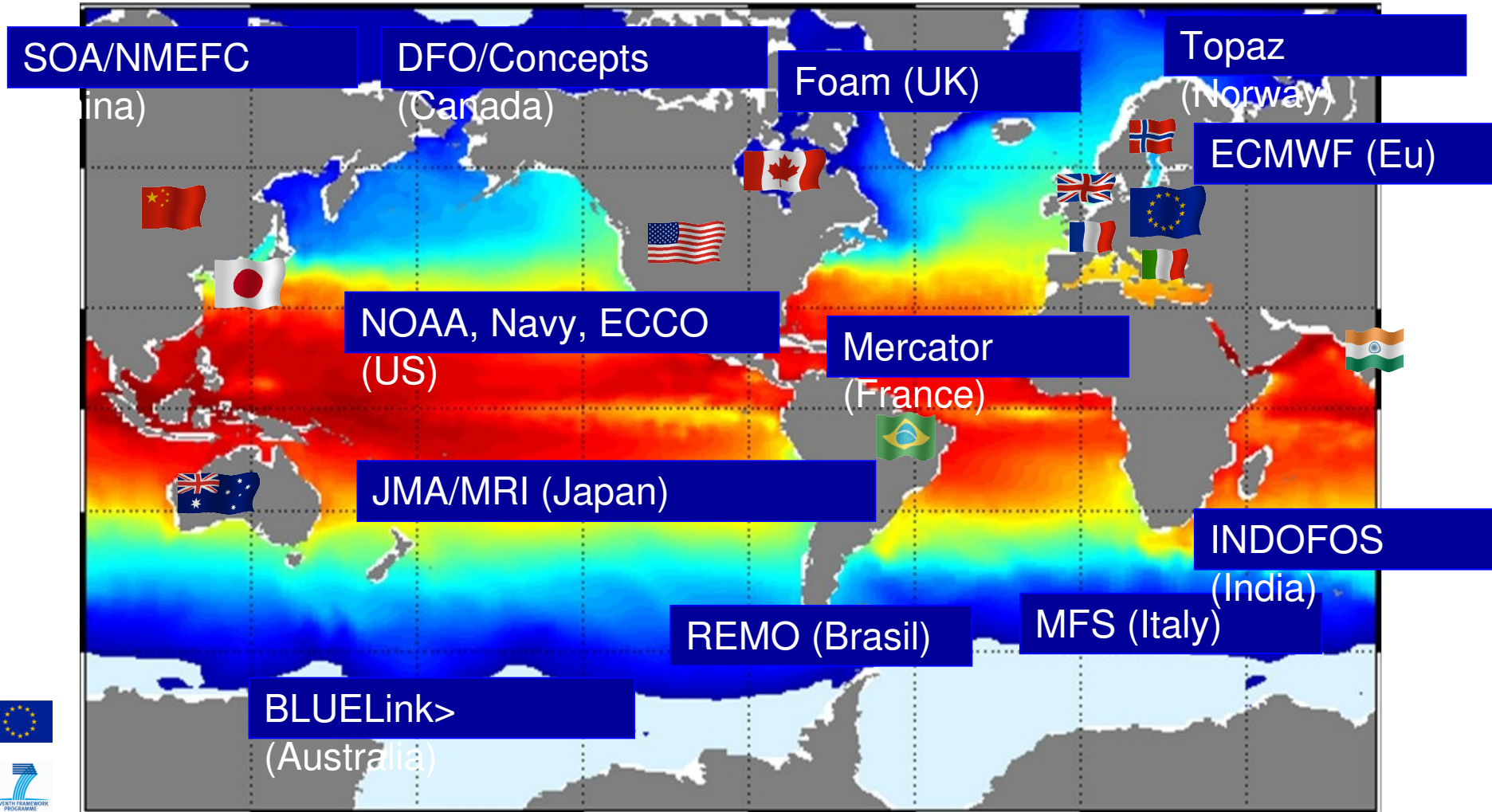
Marine Core Service





Ocean Monitoring and Forecasting **Services** in the world

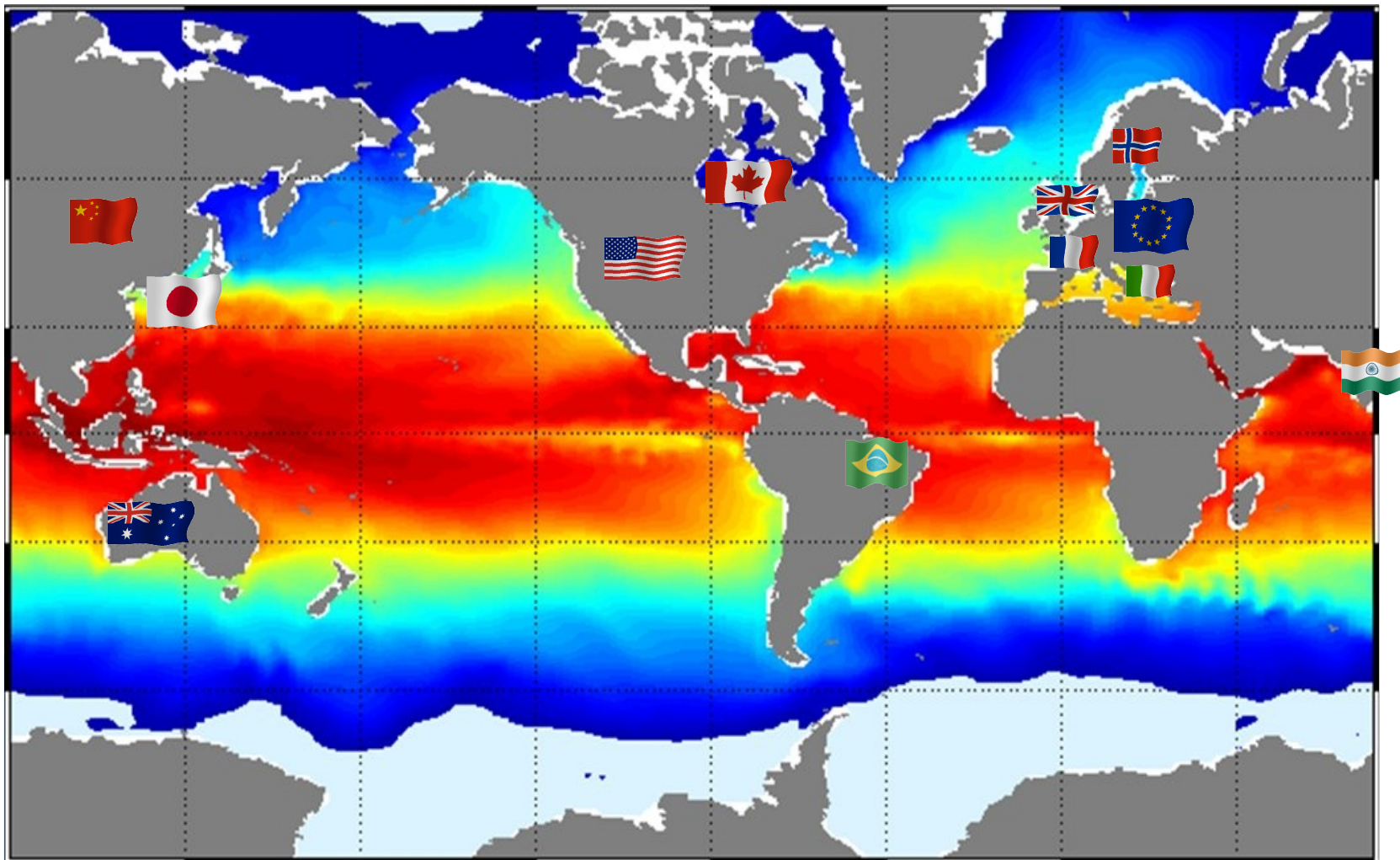
Marine Core Service





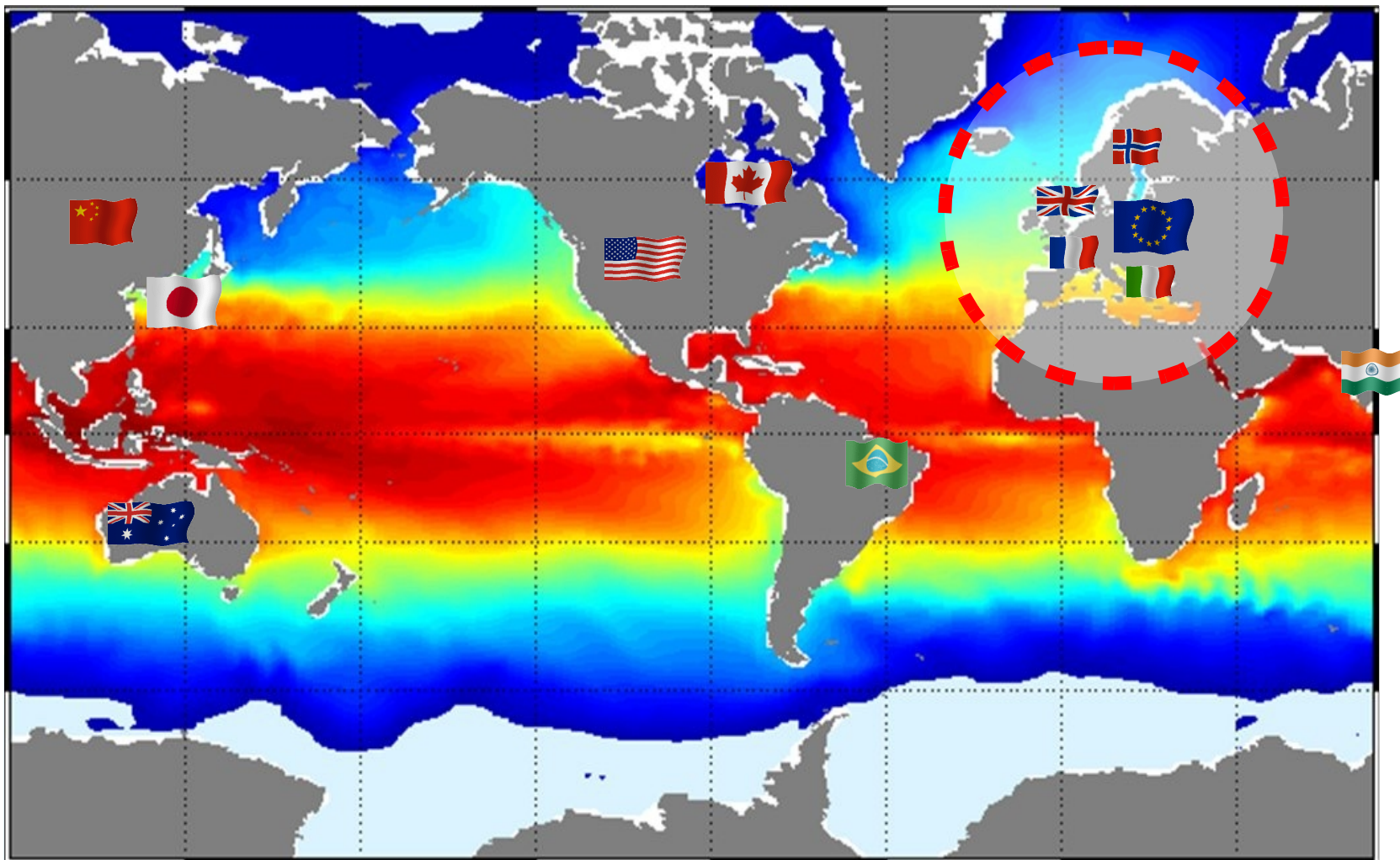
An international team: GODAE OceanView

Marine Core Service

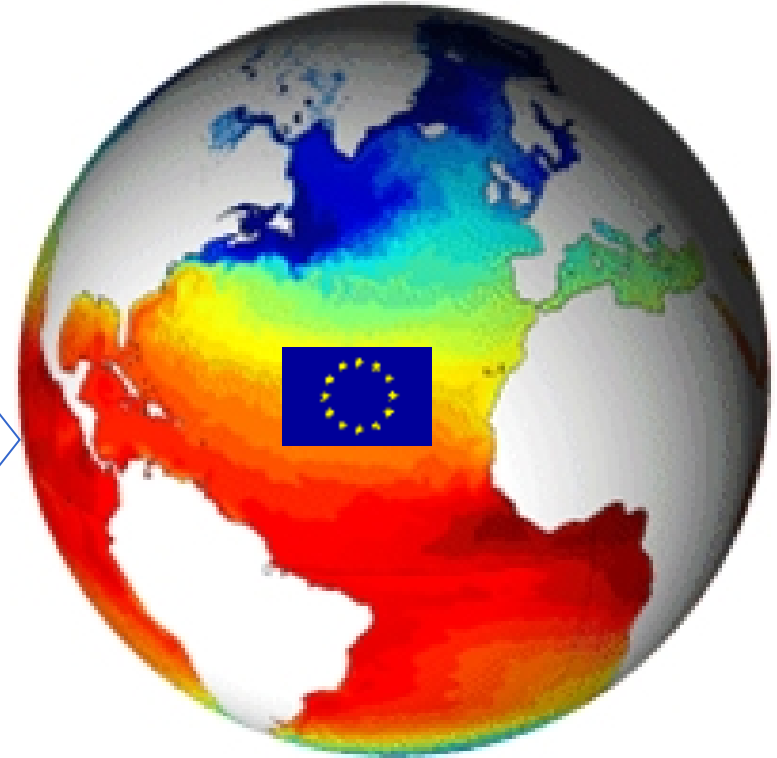
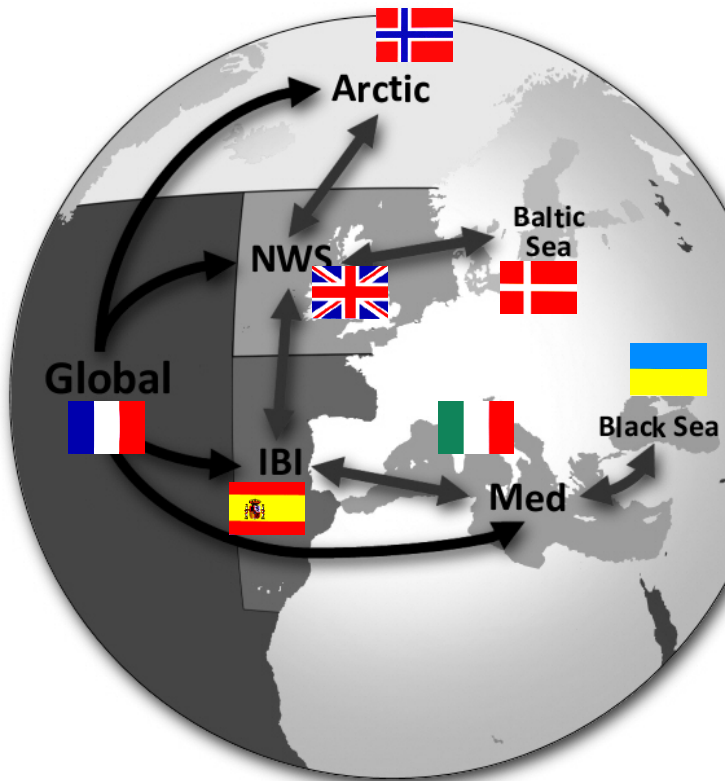




An international team: GODAE OceanView



The MyOcean project in Europe



Europe/GMES (Global Monitoring for Environment and Security)

the monitoring and forecasting component of the

European Marine Service (the core service)



MyOcean and the ocean currents

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The online MyOcean catalogue

Marine Core Service



OCEAN MONITORING and FORECASTING
Providing PRODUCTS and SERVICES for all marine applications.

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- » Modelling
- » Ocean parameters

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- » all corners

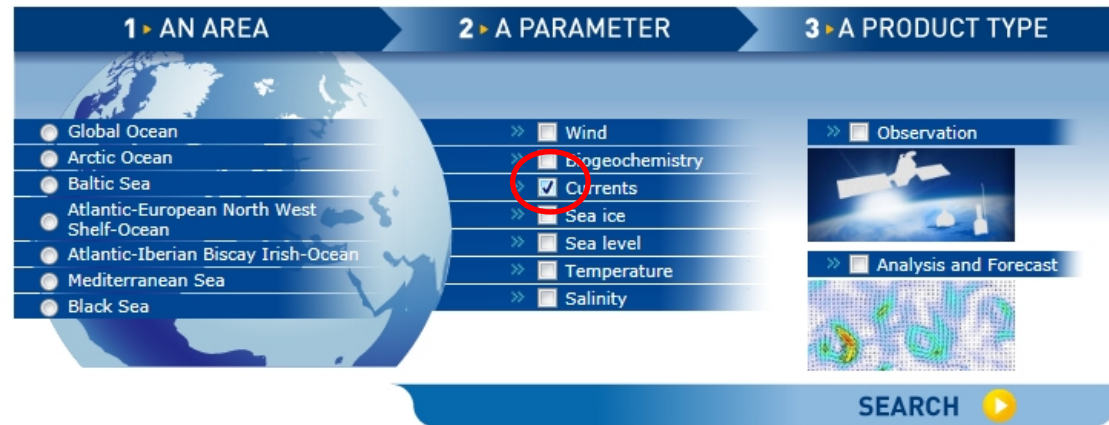
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MYOCEAN INTERACTIVE CATALOGUE

Search mode: multi-criteria or full catalogue

Please note you have to register first before downloading MyOcean products.

» Service commitments & licence



1 > AN AREA 2 > A PARAMETER 3 > A PRODUCT TYPE

- Global Ocean
- Arctic Ocean
- Baltic Sea
- Atlantic-European North West Shelf-Ocean
- Atlantic-Iberian Biscay Irish-Ocean
- Mediterranean Sea
- Black Sea

- » Wind
- » Biogeochemistry
- » Currents
- » Sea ice
- » Sea level
- » Temperature
- » Salinity

- » Observation
- » Analysis and Forecast

SEARCH ▶



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» download PDF



Access full catalogue online

» consult

Ocean current products available through the MyOcean catalogue

Marine Core Service



- n DBCP R/T *in situ* drifter data (global)
- n Regional datasets (*in situ*) Baltic, North West Shelves, Mediterranean
- n Global forecast products
- n Regional forecast products (in all regions)
- n Global reanalysis (17 year, $1/4^\circ$, 3 datasets) and a corresponding reference forced simulation (Drakkar)
- n Reanalysis or long hindcasts in the regions: Arctic, North Western Shelves, Mediterranean, Black sea

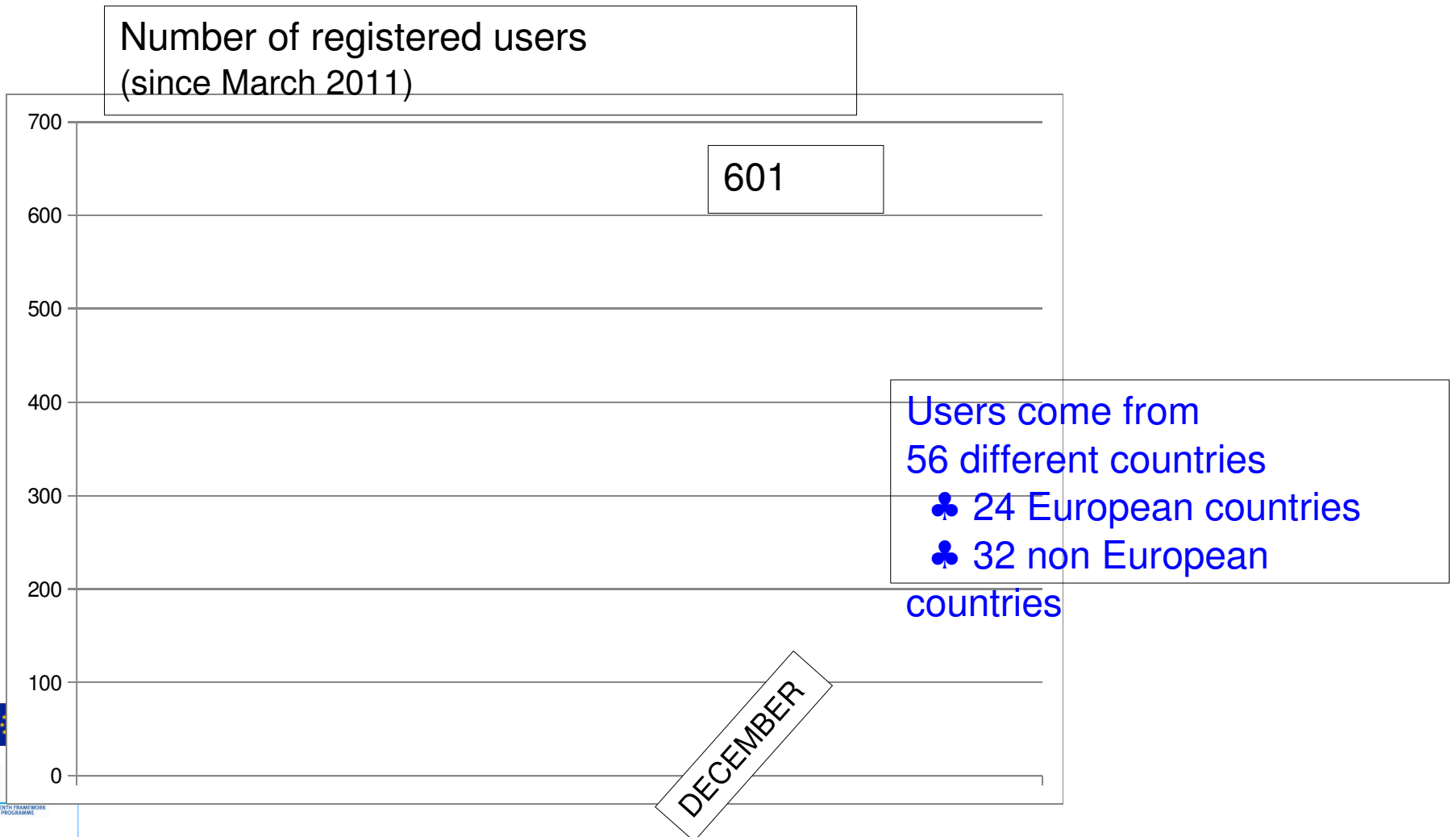
The monitoring and forecasting centers

7 EU Ocean Modeling Centers committed to Operations

- Mercator Océan (GLO)
- Met.no/NERSC (ARC)
- DMI (BAL)
- The Met Office (NWS)
- Puertos Del Estado (IBI)
- INGV (MED)
- MHI (BS)



The MyOcean users: how many are they ?



The MyOcean users: who are they ?

Users by type of organisations



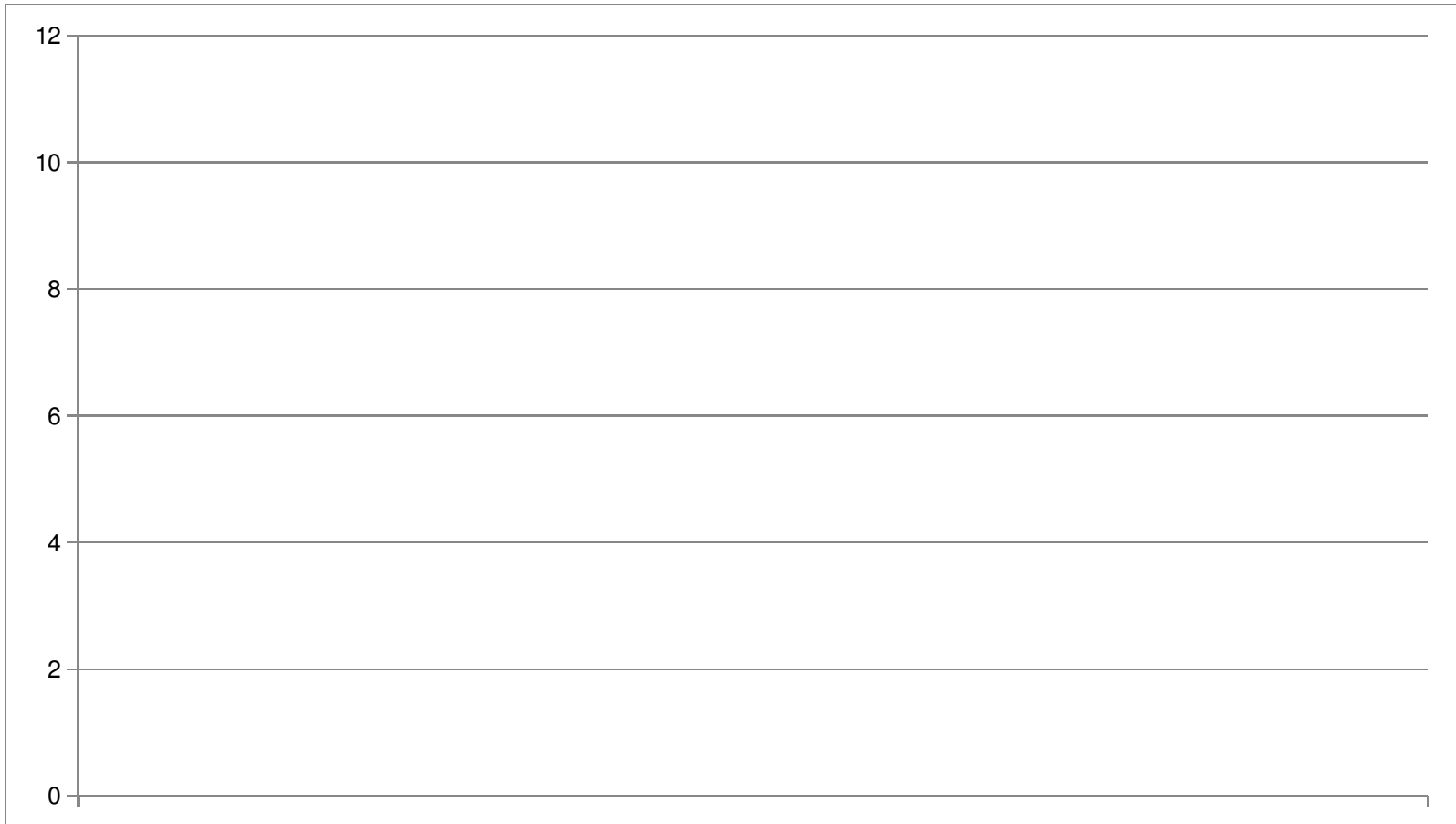
355 different organisations in December

The MyOcean users:

What are they doing with MyOcean services ?

Marine Core Service

Type of users



The MyOcean users: Which area of benefit is concerned ?

users by area of benefits

The MyOcean users

They ask for ocean currents

- n Example december 2011

- n Number of users requesting ocean current products
 - 39 different users (for one month)
 - This number does not take into account those who have requested ocean current in addition to other products (e.g. T, S, ...)

- n They mostly requested model products
 - From the Global MFC (Monitoring and Forecasting Centers):
 - 24 users
 - global products
 - products in the North+Tropical Atlantic and the Mediterranean
 - Products from the regional MFCs:
 - 1 for the Baltic, 4 for IBI, 4 for NWS and 8 for the Med.



To conclude

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Conclusions

- n MyOcean needs observed currents
 - Surface products, but also deep currents
 - Validation/assimilation/service
- n MyOcean is providing currents to users
 - Service is global
 - With a focus on the European seas
 - Service is mainly based on currents from models
- n MyOcean has the capability to help designing current products and to assess their utility
 - Impact studies through assimilation
 - Dissemination of products, feedback of users, ...