



MyOcean2 RDAC

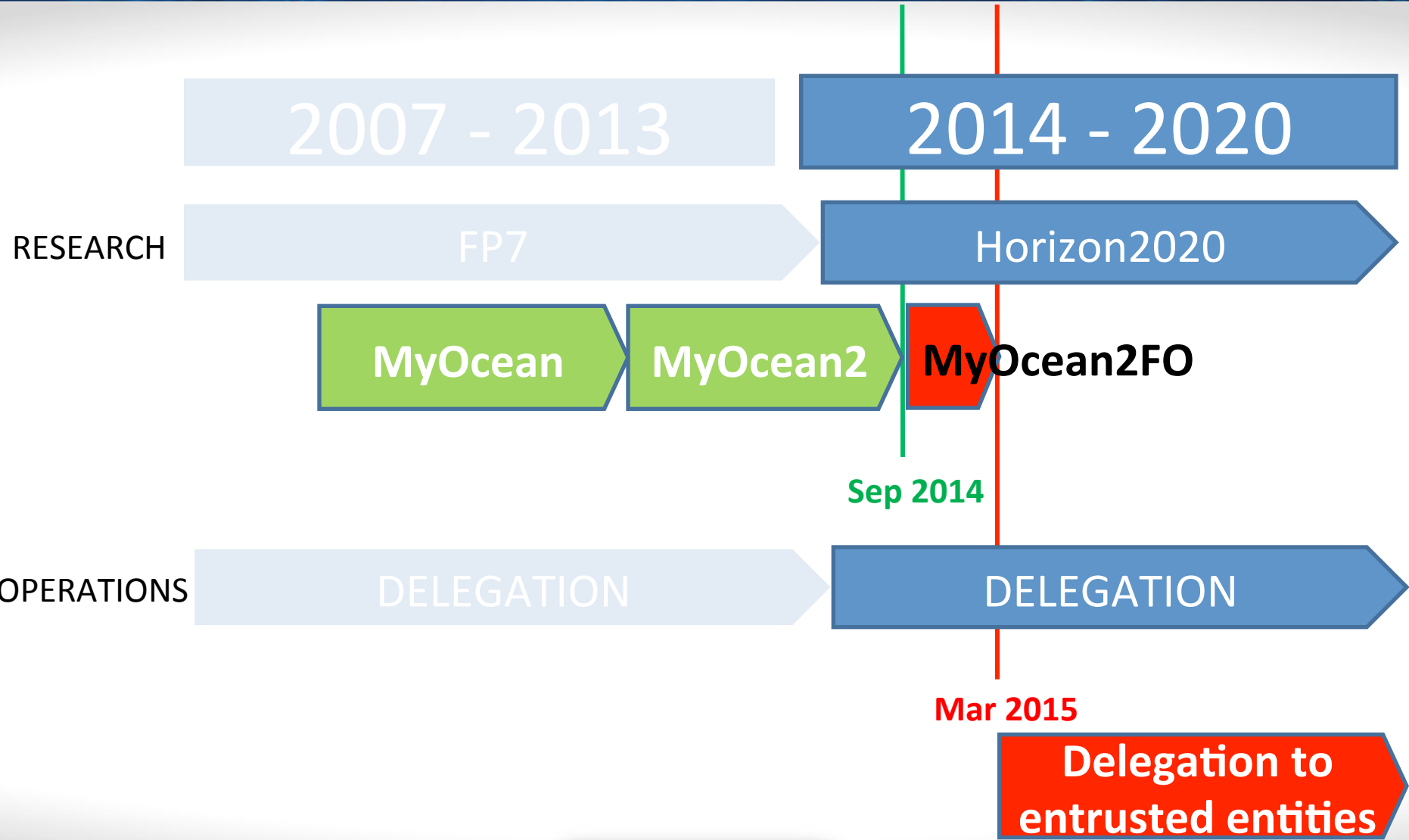
Progress Report



- Programmatic framework :
 - Transition towards the operational phase of Copernicus
- MyOcean2 project progress :
 - Main service evolutions : V3.1 (December 2013) and V4 (April 2014)
- OSI TAC :
 - New and future MyOcean2 SST products



Operational phase : new contractual framework



Selection of Copernicus service operators

■ Different processes for

- Land, emergency & security services, with direct management by EC – through EC services or EU agencies
- Atmosphere, marine & climate services with “competitive approach” – Delegation Agreement targeted by EC

■ For Atmosphere, Marine & Climate services

- Request for Expression of Interest (RFEI): “market testing” – February 2014
- Selection of the potential operators after RFEI evaluation – March 2014
- Direct negotiation with these potential operators – From April to October (or before) 2014
- Contract with selected operators – Before end November 2014
- Selection of contractors: competitive process – From November 2014 to March 2015
- Ramp-up phase – From January to June 2015 (TBC)



DG ENTR (European Commission) decision

Decision to open negotiations with

Atmosphere Service: ECMWF

Climate Service: ECMWF

Marine Service : Mercator Ocean

About Marine, EC asks Mercator Ocean

Service continuity with MyOcean

Open competition for implementing

Preparation of a **European entity** ('europeanize' Mercator Ocean)



- V3.1:
 - 4 new products:
 - NRT Sea Level for data assimilation – Med Sea
 - L4 High Resolution SST reprocessing – Baltic
 - L4 High Resolution SAR Sea Ice edge product – Arctic
 - NRT L4 wind product (METOP A,B, OceanSat3 1/4 deg.) – Global
 - Main updates:
 - New versions of reanalysis products (1993-2011) - global
 - OC L3 products with (MODIS+NPPVIIRS) - Global and Baltic
 - Aggregation of analysis and hindcast to forecast, Bio model – Med Sea
 - Other updates:
 - OC L3 and L4 products, new algorithms – Black Sea
 - Monthly/seasonal means for Ocean OSTIA SST products – Global
 - Assimilation of EuroArgo floats in the model product - Black Sea
 - Model tuning - Arctic
 - Hourly resolution for the model product - North-West Shelf

V4 : 124 products (instead of 111):

30 NEW products: 6 models, 23 satellite observations, 1 in situ

38 UPDATED products: 13 models, 25 satellite and insitu observations

Main improvements:

- **Models:**

- NRT ocean-atmosphere coupled physical product with 7 days forecasts for the **Global Ocean**
- New NRT and reanalysis biogeochemistry products and new release of Physics reanalysis - **Mediterranean Sea**
- New reanalysis for physics - **North West Shelves**
- New NRT product with wave induced currents and new biogeochemistry reanalysis - **Black Sea**

- **Satellite Observations:**

- 20-year reference period (rather than 7-year) for Sea level products
- All OC NRT now use NPP/VIIRS and new reprocessing using input CCI products

- Longer time period for **In Situ products**

Name	PU	DU
SST-METOFFICE-EXETER-UK	X	X
SST-IFREMER-BREST-FR	X	X
SST-CNR-ROMA-IT	X	X
SST-DMI-COPENHAGEN-DK	X	
SST-METNO-OSLO-NO	X	
SST-METFR-LANNION-FR	X	



V3.1 : Baltic SST re-analysis 1983 – 2009 (DMI)

-





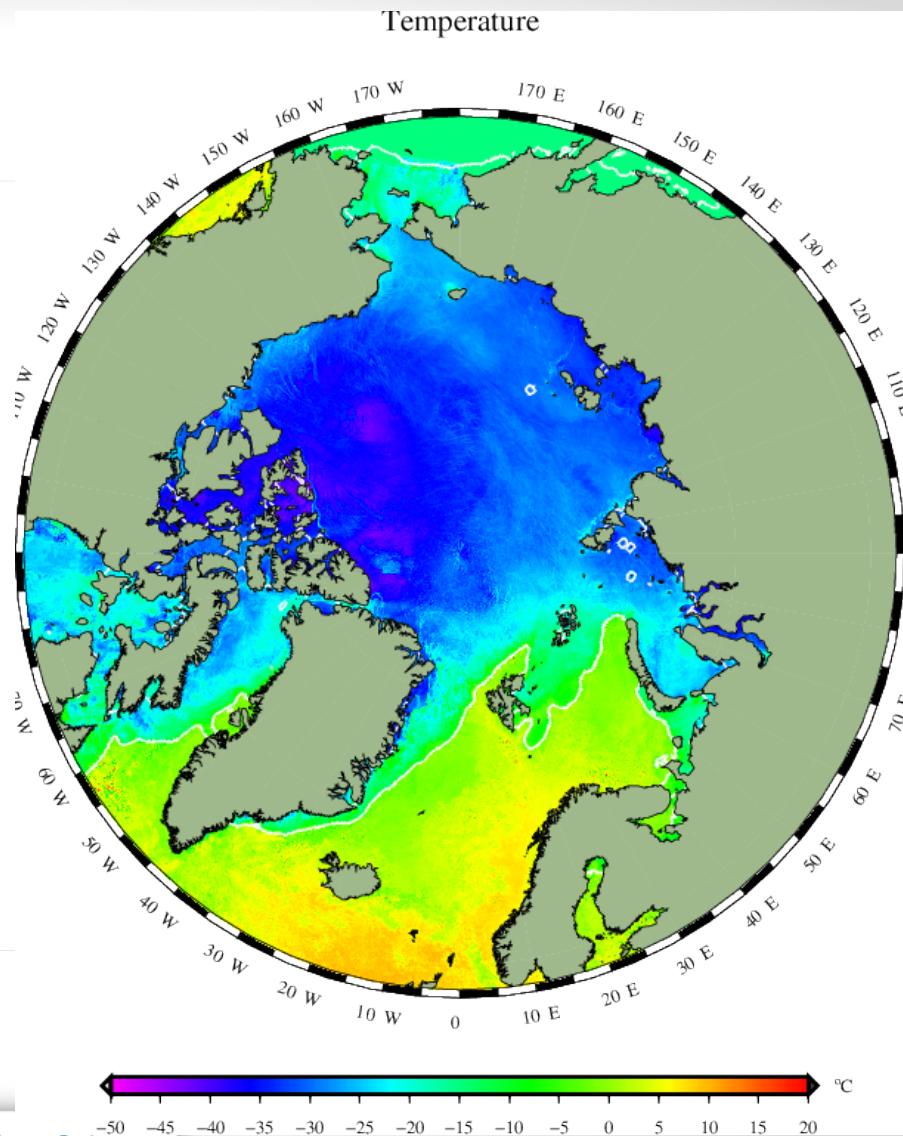
V4 : regional diurnal SST analysis (M-F/CMS)

3-hourly SST analysis, using available observations in 3 hour time window



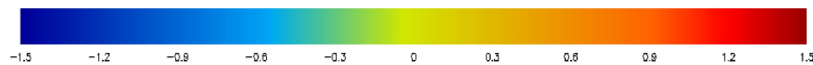
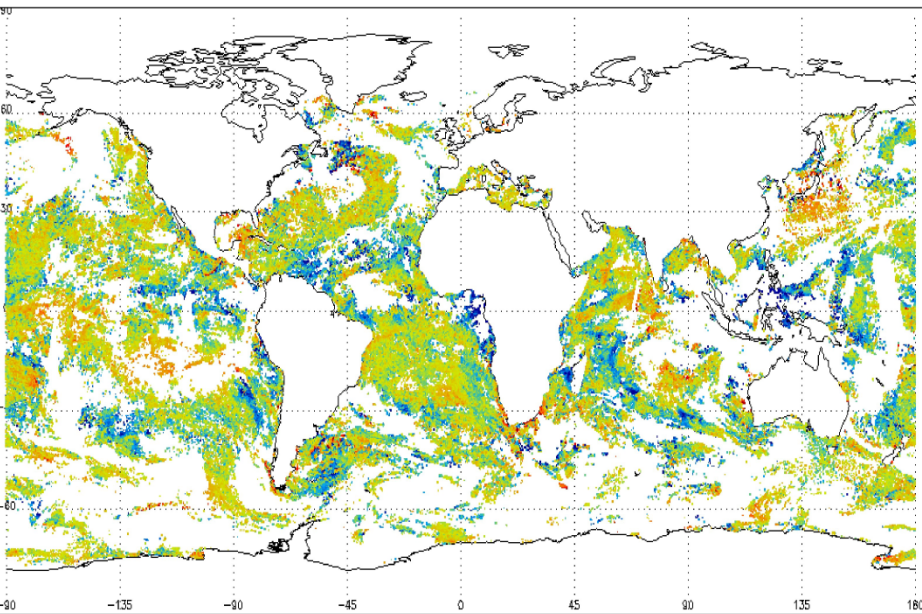
V4.1 : Sea & Ice Surface Temperature (DMI)

Example



- Global diurnal SST analysis implemented in OSTIA framework
- Observations assimilated into diurnal model forced with NWP fields
- System will start running operationally in summer 2014

Observations minus control (RMS: 0.4188K)



Observations minus analysis (RMS: 0.3824)

