

MYOCEAN2 catalogue of products

L. Crosnier (MyOcean Central Product Manager), MyOcean CIS team, MyOcean WP leaders, MyOcean Product Managers

IMDIS 2013





- MyOcean in general: organisation in TACs and MFCs.
- Overview of MyOcean Service and catalogue of products: 107 Ocean Observations and Ocean Models Products.
- Focus on catalogue management: tools, various roles with release and change management, product dependency management
- Conclusion.



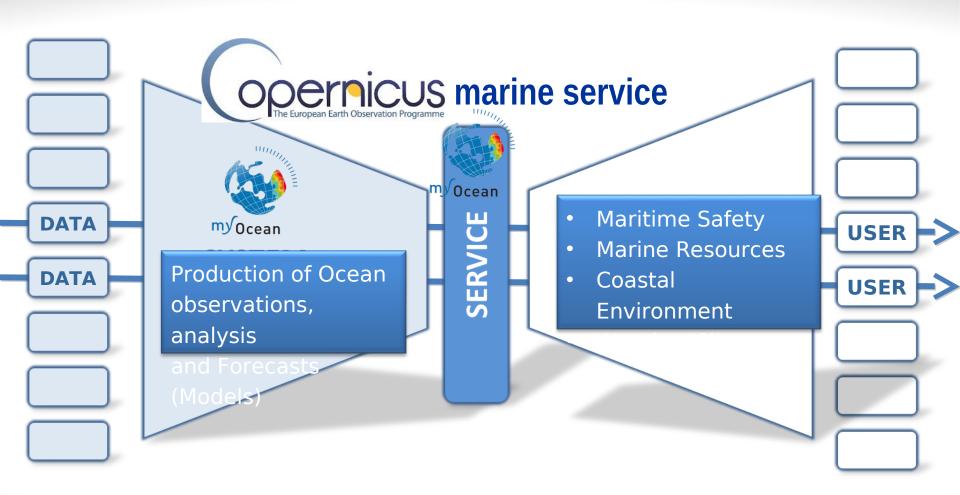
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A Core Service

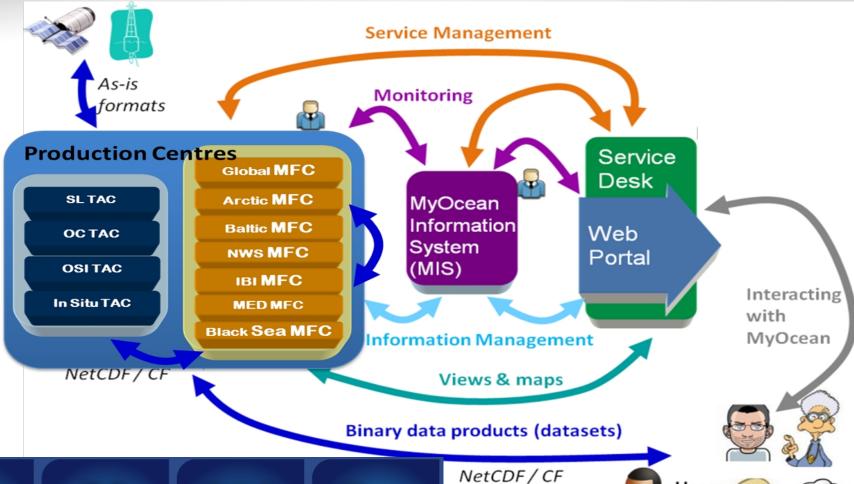








An integrated System and Service



28

European Countries in the consortium **59**

public and private partners **350**

European Experts Areas covered

Global Ocean and All European Maritime Regions



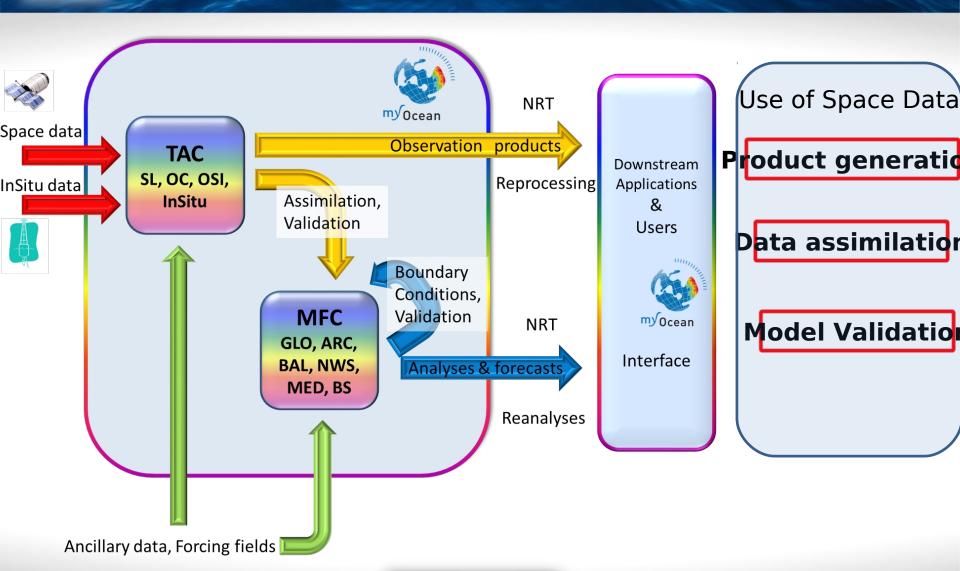
Users







The MyOcean Production Function





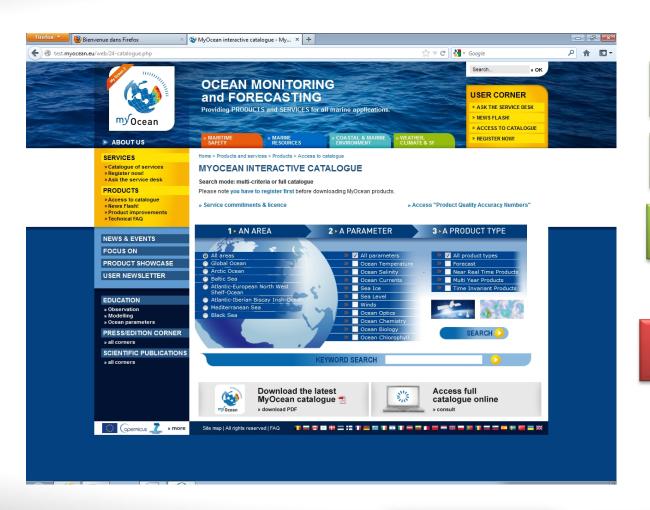


44 Production Units producing the products 25 <u>Dissemination Units</u> distributing the products NERSCO Att **SMHI** University of Reading Helmholtz-Zentrur Geesthacht Marine Institute KNMI KNMI **ECMWF** -Cefas BROCKMANN A NETWORK OF PROVIDERS <u>Ifremer</u> Mercator **Ocean** of SCIENCES CLS ACRI ENE! Puertos del Estado INGV CSIC SOFT hcmr

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A single and easy access point for users www.myocean.eu



DISCOVER

VIEW

DOWNLOAD

Open & Free







ABOUT US

NEWS & EVENTS

Costa Concordia: MyOcean on alert to help control potential oil



When the cruiser Costa Concordia ran aground off the Italian coast in January 2012, MyOcean started to provide the Italian Coast Guard Operational Centre with daily valuable information on currents in the

» more

EuroG00S

Systems an

Provid

MARII

SAFE1

Come and discover how MyOcean monitors and forecasts oceans.

» Observation

EDUCATION

- » Modelling
- » Ocean parameters

PRESS/EDITION CORNER

» all corners

SCIENTIFIC PUBLICATIONS

» all corners



Site map | All right

KEY-PARTNER.

» Learn more

OCEAN MONITORING ΑN

MyOcean Catalogue of products



USER CORNER

» ASK THE SERVICE DESK

» NEWS FLASH!



PRODUCT **IMPROVEMENTS**

» TECHNICAL FAQ

FIRST VISIT?

» DISCOVER MYOCEAN PRODUCTS & SERVICES

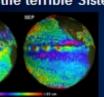
» REGISTER NOW!

PRODUCT SHOWCASE

the terrible Sister

VEATHER,

CLIMATE & SF



Following its elder brother (El Niño) from mid-2010, La Niña has in turn wreaked havoc on Pacific coasts (and more). Catastrophic flooding in Australia, in particular, occurred in December 2010-January 2011. A new La Niña episode is

than last year one. It is expected to continue up till March-April-May 2012.

» Learn more

ongoing, even if less intensive

April 2013



Copernicus I



107 products : 31 from Models/76 from observations



Analysis and Forecast

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

Observations

- ·Sea Level
- Ocean Colour
- Sea Surface Temperature
- ·Sea Ice
- •Wind
- ·In-Situ









Model products

- From 6000 m to surface
- Source: 7 MFCS, 31 different systems



REANALYSES
Non Assi. HINDCAST
~20 years



REAL-TIMEDaily hourly



FORECAST 2 to 10 days

In Situ Observation products

- From 1500 m to surface
- Source: 1 TAC, different platforms (ARGO, FerryBox Vessels, XBT, GTS....) SEADATANET

Satellite Observation products

- Surface
- Source: several TACs, several different satellites

Wind
Chemistry
Biology
Optics
Chlorophy

~20 years



REAL-TIME Daily









What's in Myocean Catalogue: view by parameters

	All Geographical area		
	Models (Forecast, Monitoring and Reanalysis)	Satellite Observations (Monitoring and Reprocessing)	In Situ Observations (Monitoring and Reprocessing)
Vertical coverage	Full water column	Ocean surface	0-1500m
Ocean Temperature	L4 (20)	L3 L4 (13)	L2-INS (15)
Ocean Salinity	L4 (20)		L2-INS (15)
Ocean Currents	L4 (19)		L2-INS (7)
Sea Ice	L4 (10)	L3 L4 (14)	
Sea Level	L4 (19)	L3 (11)	L2-INS (7)
Winds		L3 L4 (3)	
Ocean Optics	L4 (5)	L3 L4 (10)	
Ocean Chemistry	L4 (10)		L2-INS (7)
Ocean Biology	L4 (5)		
Ocean Chlorophyll	L4 (10)	L3 L4 (14)	L2-INS (7)









What's in Myocean Catalogue: view by product type

	All Geographical area		
	Models	Satellite Observations	In Situ Observations
Forecast Products	L4 (12)		
Monitoring Products (Delayed and Near Real Time)	L4 (14)	L3 or L4 (45)	L2-INS (8)
Multi Year Time Series Products (Hindcast, Reanalysis, Reprocessing)	L4 (16)	L3 or L4 (13)	L2-INS (7)
Time Invariant Products		L3 or L4 (3)	







Online Catalogue of products: 107 products DISCOVER

🛕 MyOcean_catalogue.wmv - Lecteur multimédia VLC Média Lecture Audio Vidéo Outils Vue Aide » Catalogue of services Once your product search is performed, SCHOBAL OCEAN » Register now! » Ask the service desk you get a list of one or several products. PRODUCTS GLOBAL OCEAN PHYSICS ANALYSIS AND FORECAST UPDATED WEEKLY GLOBAL-ANALYSIS-FORECAST-PHYS-001-002 » Access to catalogue » News Flash! 3 buttons to go forward: » Product improvements The Operational Mercator global analysis and foreca. » Technical FAQ • DATA dir A @ @ SSSs running **NEWS & EVENTS** Ly yocean forecast as well as 14 of ocean analysis. This product **FOCUS ON** salinity, currents, sea level and ice PRODUCT SHOWCASE parameters from the top to the bottom of the Ocean over various **USER NEWSLETTER** areas covering the Global Ocean. GLOBAL OBSERVED OCEAN PHYSICS GLOBAL-REP-PHYS-001-012 TEMPERATURE SALINITY AND CURRENT'S REPROCESSING (1993-**EDUCATION** ONGOING) » Observation INFO » Modelling You can find here the Global » Ocean parameters T,S,U,V,H Armor-3D L4 DATA ACCESS Reprocessing: Combined products PRESS/EDITION CORNER from satellite observations (Sea **O**VIEW Level Anomalies, Geostrophic Surface » all corners Currents, Sea Surface Temperature) and in-situ (Temperature and SCIENTIFIC PUBLICATIONS Salinity profiles) on a 1/3 degree mercator grid over the time period » all corners 1993-ongoing. GLOBAL-REANALYSIS-PHYS-001-009 GLOBAL OCEAN PHYSICS REANALYSIS (1993-2010) You can find here 3 Reanalysis of the Global Ocean and Sea Ice INFO Dhysics (monthly manns of

cean2 project - www.myocean.eu

Média Lecture <u>A</u>udio <u>V</u>idéo <u>O</u>utils V<u>u</u>e Aide

» Ask the service desk

PRODUCTS

- » Access to catalogue
- » News Flash!
- » Product improvements
- » Technical FAQ

NEWS & EVENTS

FOCUS ON

PRODUCT SHOWCASE

USER NEWSLETTER

EDUCATION

- » Observation
- » Modelling
- » Ocean parameters

PRESS/EDITION CORNER

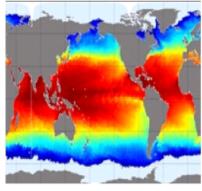
» all corners

SCIENTIFIC PUBLICATIONS

» all corners

DATA ACCESS

DOWNLOAD



Global Ocean Physics Analysis and Forecast updated Weekly

GLOBAL_ANALYSIS_FORECAST_PHYS_001_002

Information on how to download MyOcean Products can be found here

The "Subset download" allows you to subset the data, and should be used if you download a small part of the total dataset.



The "Direct download" directly transfers the file as stored on the server. It is able to deliver compressed data and should be used if you wish to download larger datasets.



The "FTP download" allows to download an entire dataset directly from the FTP server at the supply center



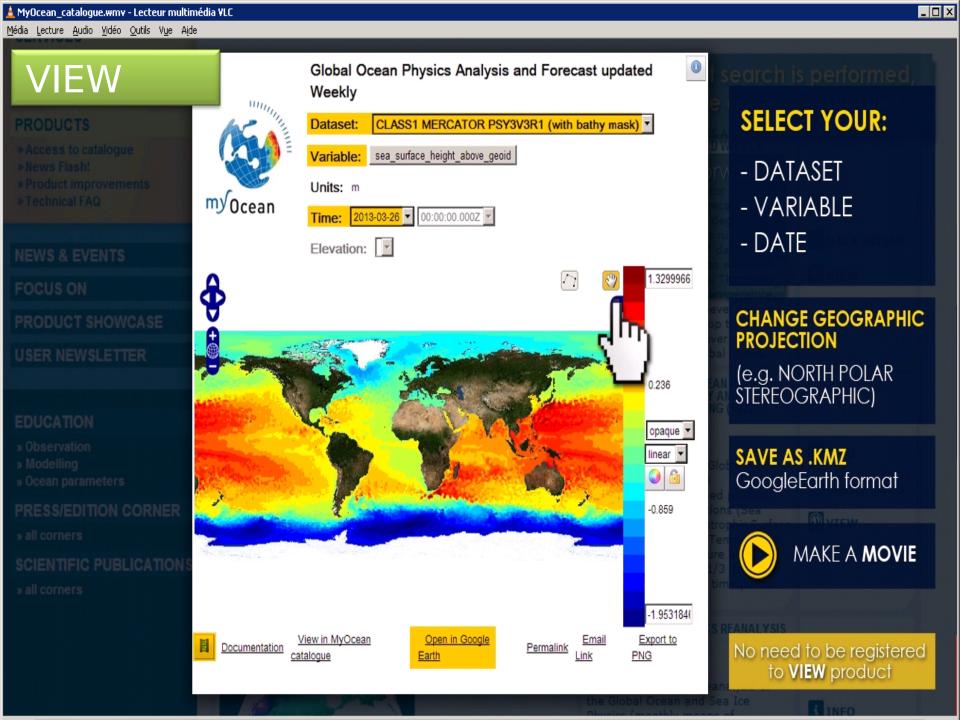
3 DOWNLOAD POSSIBILITIES:

- SUBSET DOWNLOAD - DIRECT DOWNLOAD
 - MYOCEAN FTP DOWNLOAD



YOU NEED A LOGIN/PASSWORD
TO DOWNLOAD AND ACCESS DATA
(SEE MYOCEAN REGISTRATION TUTORIAL)

2:33



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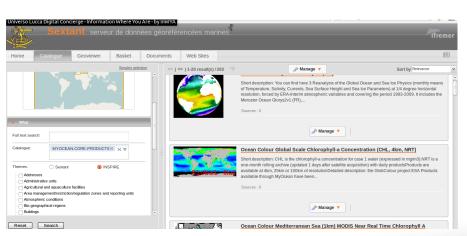




MyOcean Product Metadata Information System

- MyOcean Information System uses GEONETWORK (within SEXTANT) in order to manage product metadata information -> up to date information about products:
- 1- providing <u>USE'S</u> with a tool storing accurate product information and documentations.
- 2- providing MyOcean project with a tool for monitoring capability (system monitoring, transaction accounting, product dependency monitoring)











Geonetwork: a key repository for product information What do we use Geonetwork Metadata for?_____

 Catalogue of Product Editing: information and documentation about products

WebPortal: search engine criteria

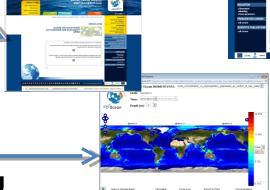
Download services(URL for download mechanism)

Viewing services: (URL for WMS)

System and Production monitoring (Is product on time on delivery mechanism?)

Transaction accounting (statistics about users behaviour)

Product Dependency Monitoring (Manage future Satellite Data requirements...)









Main Roles associated to technical/product/service

<u>Central roles associated to technical/product/service</u> <u>tasks</u>

- → Central Change Manager and Release Manager
- → Central Product Manager
- → CIS Technical Manager
- → Central Service Transition Manager
- → Test Integration/Verification/Validation
- Database administrator

Local roles associated to technical/product/service tasks

- → Release Manager
- Change Manager
- Product Manager [35 local product experts disseminated all over Europe]
- → Technical Support
- → Quality Expert

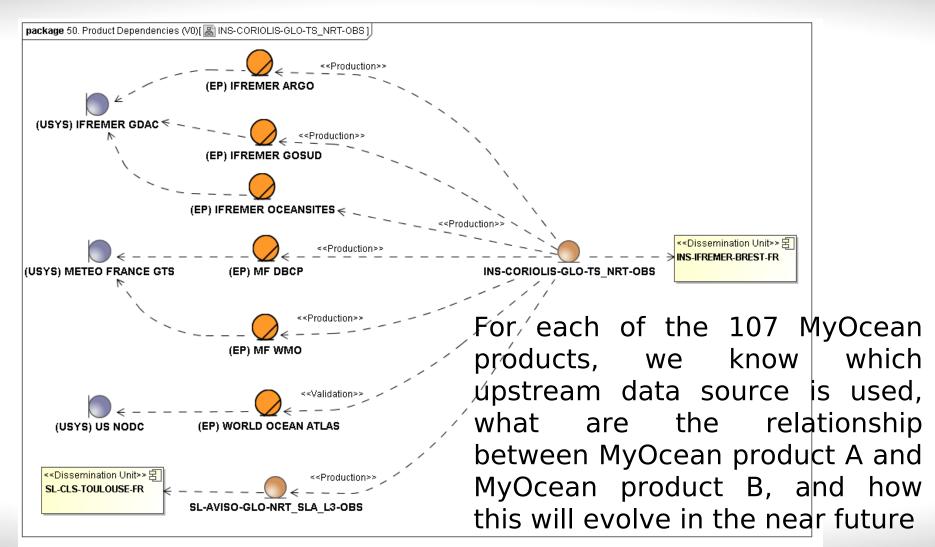
Moreover, Geonetwork provides with a Validation Workflow in order to validate each metadata change







Dependencies Dataflow Graphs

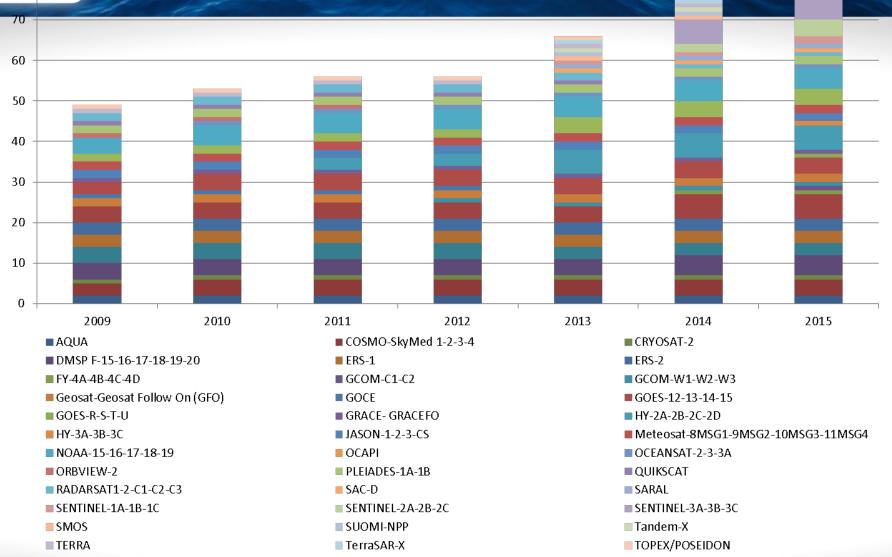








Management of the MyOcean Satellite Data Upstream Requirements: Number of satellite/sensor products used to build MyOcean products



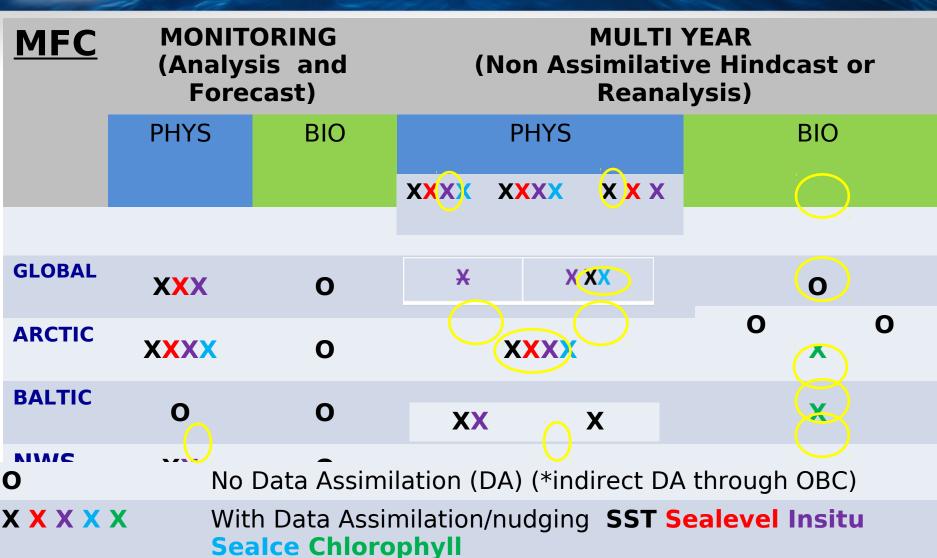








MFC model products: which data is assimilated? New After V3.0



Not done yet but will be done before the end of Myo2

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 MyOcean Service and Catalogue of products: 107 Ocean Observations and Ocean Models Products.

- <u>Catalogue management</u> is achieved thanks to:
- Choice of Ergonomic Tools
- Experts who fill in the tool with accurate information

THANK YOU!





