

GMES MARINE MONITORING SERVICE

PRODUCT / SERVICE PORTFOLIO

FEBRUARY 2010

Preamble

The GMES Services being developed by the five projects partly funded by the European Commission provide geo-spatial products and services. These products and services can be exploited either directly by end-users or by providers offering value-added services which build on the basic services. These value-added services are generally referred to as "downstream services".

This document provides both end-users and value-added service providers with a description of the products and services developed by the MyOcean project (www.myocean.eu), as well as with indicative timescales for their delivery.

The products and services described in this document may undergo revisions during the lifetime of MyOcean. Hence the information provided should be considered being of an indicative nature only.

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1 Contribution to GMES Services

MyOcean is the EU FP7 Research Project responsible for the development and pre-operational validation of the Ocean Monitoring and Forecasting component of the GMES Marine Core Services.

MyOcean develops monitoring and forecasting services which address both the global oceans and the European seas.

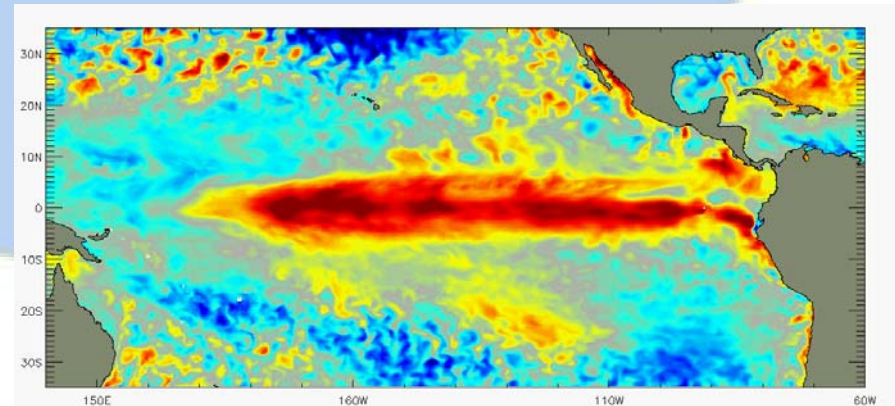
The project addresses four main themes:

- Marine & coastal environment
- Climate & seasonal forecasting
- Marine resource management
- Marine safety

Monitoring services are based on the assimilation of data collected through space-borne and in-situ sensors into 3D models. They provide information about the physical state, ice and ecosystems of the ocean in real time as well as for past periods (up to 25 years back) and the close future (1-2 weeks).

The products and services developed by MyOcean are open to anyone (e.g. value-added service providers, end users) and for any kind of use, including commercial use.

Users can access the products via a central web desk, a central reactive manned service desk and thematic experts distributed across Europe.



Example of product: El Nino sea surface temperature anomaly

The proposed services include routine/bulk delivery, response to specific queries through viewing tools and helpdesk service and self-training.

Operational commitments are defined through service level agreements (SLA) to be signed between the MyOcean consortium and users.



MyOcean is a Collaborative Project partly funded under the Seventh Framework Programme of the European Union.

2 Products and Services

The products delivered by MyOcean are elaborated by Monitoring and Forecasting Centres (MFC) and Thematic Assembly Centres (TAC).

Seven Monitoring and Forecasting Centres (MFC) serve the following areas:

- Global Ocean
- Arctic
- Baltic Sea
- Atlantic North- West shelves
- Atlantic Iberian-Biscay-Ireland
- Mediterranean Sea
- Black sea

For each MFC the following parameters are addressed: salinity, temperature, current, sea level, biogeochemistry and sea ice (from the surface to the bottom). Please refer to the annexes for more detailed specifications.

Each Thematic Assembly Centre (TAC) deals with one of the following sets of observation data:

- Sea Level
- Ocean Colour
- Sea Surface Temperature
- Sea Ice & Wind
- In Situ Data

More detailed specifications are provided as annexes.

3 Indicative Time Scale

The current version of the MyOcean Catalogue (v0) includes 129 products. The MyOcean service will evolve during the project's life towards a comprehensive and fully operational service.

Current version (V0 Service):

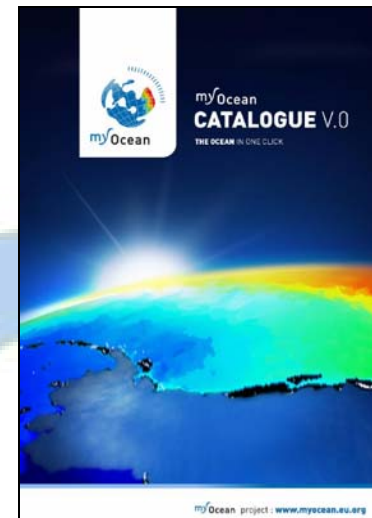
The MyOcean service allows all users to access a catalogue of worldwide and European regional Ocean products (real time observations, analysis and forecast) that have been developed and made available under previous projects such as MERSEA, MARCOAST, POLARVIEW, ECOOP, GLOBECOLOR.

All products (see MyOcean catalogue in the annex) have been gathered and made accessible through a single "[Online Queryable Catalogue](#)". In this version, the products are still hosted on their respective web portals (thus, by clicking on "access to products" you will be conducted to other web portals).

Products and services are open and free (but subject to restriction in re-distribution: see the [Licence](#) on the web site) to any user and for any application, including commercial activities.

Next release (V1 Service):

At the end of 2010, MyOcean pan-European full fledged service will offer a single and reliable entry point to users and a direct access to all products. The web portal will be directly connected to production units all over Europe in order to ensure homogeneity, traceability and full operability. Service will include "INSPIRE" functionalities (discovering, visualisation, downloading, tools, ...) and a 24/7 helpdesk.



Annex 1 MyOcean Catalogue V.0

The product portfolio is summarised in the table below. The detailed catalogue is available on the next pages. It is also available at www.myocean.eu

Service Description	Product Description		
Area of Benefits	MFC Product Package	TAC Product Package	Coverage
Area 1: Marine Safety (marine operations, oil spill combat, ship routing, weather forecasting, defence, search & rescue, ...)	<ul style="list-style-type: none"> ○ baseline and standard ocean state products ○ daily / hourly fields 	<ul style="list-style-type: none"> ○ SST ○ sea level ○ sea ice ○ wind ○ in situ ○ daily fields 	Global Ocean European Basins
Area 2: Marine Resources (fish stock management)	<ul style="list-style-type: none"> ○ baseline and standard ocean state products ○ daily fields 	<ul style="list-style-type: none"> ○ ocean colour ○ sea ice ○ wind ○ in situ ○ SST ○ daily fields 	Global Ocean European Basins
Area 3: Marine and Coastal Environment (water quality, pollution, coastal activities, ...)	<ul style="list-style-type: none"> ○ baseline and standard ocean state products ○ boundary and initial ocean state conditions ○ re-analysis ○ daily / hourly fields 	<ul style="list-style-type: none"> ○ ocean colour ○ in situ ○ sea ice ○ wind ○ sea level ○ SST ○ reprocessing ○ daily fields 	Global Ocean European Basins
Area 4: Climate & Seasonal Forecasting (climate monitoring, ice, seasonal forecasting, ...)	<ul style="list-style-type: none"> ○ baseline and standard ocean state products ○ surface to bottom ○ re-analysis ○ seasonal forecasting ○ initial conditions ○ daily / weekly / monthly / yearly fields 	<ul style="list-style-type: none"> ○ sea level ○ ocean colour ○ in situ ○ sea ice ○ wind ○ SST ○ re-processed data sets ○ daily / weekly / monthly / yearly fields 	Global Ocean European Basins