

# EuroGOOS Coastal Working Group Overview

EuroGOOS GA, 24<sup>th</sup> May 2018

Presented by Joanna Staneva on behalf of WG

**EuroGOOS** is a member association promoting and implementing **Operational Oceanography**.  
 Ensure **sustained observations** and **models** are made in European seas underpinning a suite  
 of fit-for-purpose **products** and **services** for marine and maritime end-users.



- 42 EuroGOOS members
- 19 european countries
- 48 additional ROOS members
- Secretariat Office in Brussels



- **EuroGOOS identifies priorities, enhances cooperation and promotes the benefits of operational oceanography to ensure sustained observations are made in Europe's seas**
- **EuroGOOS is the European component of the Global Ocean Observing System of the Intergovernmental Oceanographic Commission of UNESCO (IOC GOOS).**
- **EuroGOOS is registered as an international non-profit association under Belgian law (EuroGOOS AISBL) and its Secretariat is located in Brussels.**



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Leading European ocean observing network  
EuroGOOS members, regional systems, task teams, working groups, and guests at the 2018 Assembly

Regional Systems  
Members

View fullsize map

# EuroGOOS Structure

BOOS  
(Baltic)

ARCTIC  
ROOS

MONGOOS  
(Mediterranean)

NOOS  
(Northwest  
shelf)

IBI-ROOS  
(Iberia-Biscay-  
Ireland)

## Working Groups

Data-MEQ

Technology Planning

Science Advisory

**Coastal**

## Task teams

Tide Gauge

Ferrybox

HF radar

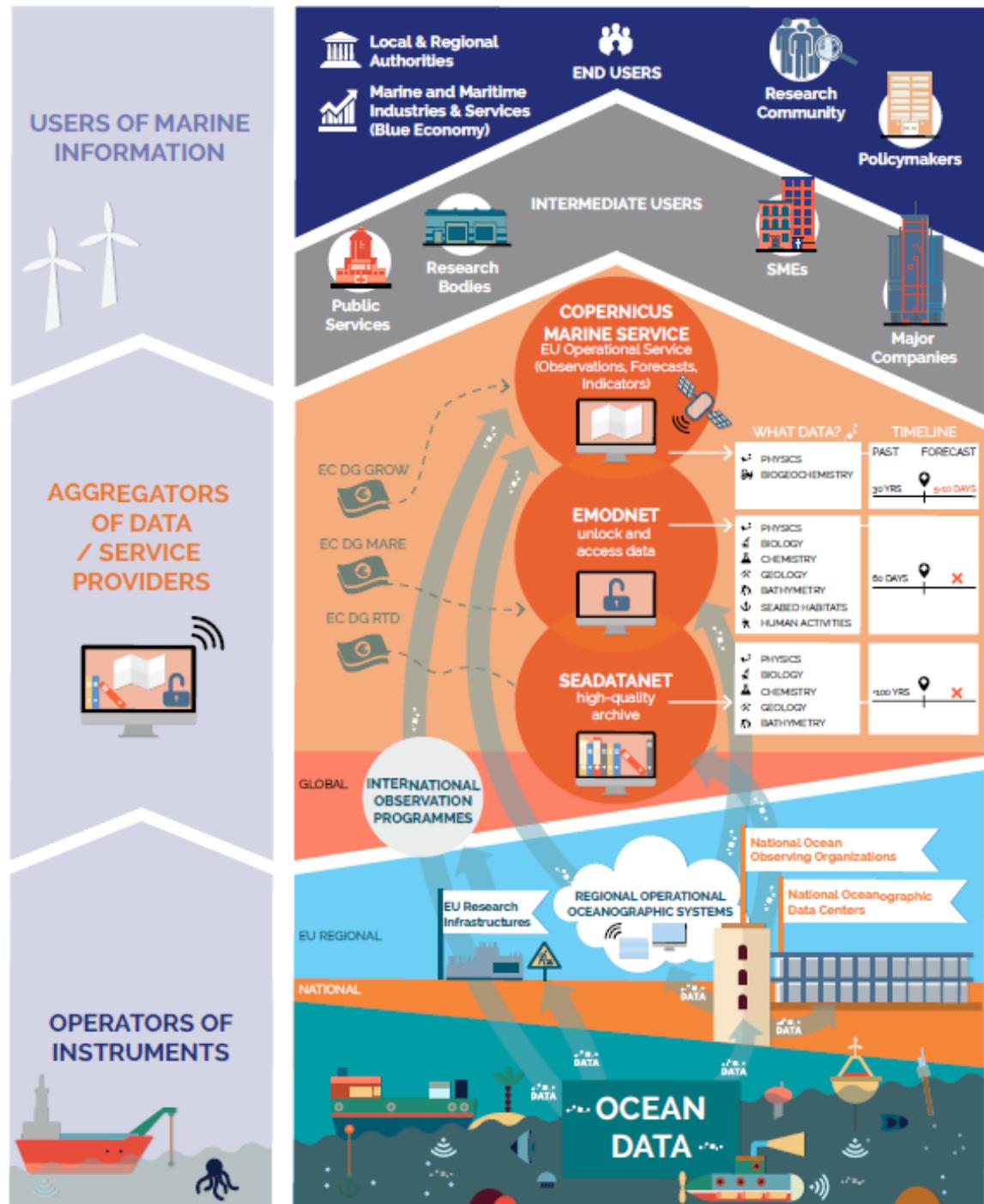
Glider

**Euro-ARGO**

**(EMS0 Fixed Platforms)**

Animal-Borne TT

# Cooperation and collaboration



Centralised  
Copernicus

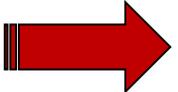
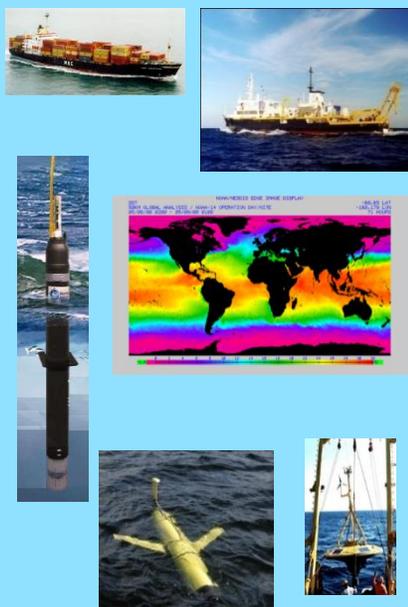
De-centralised  
EU Countries

De-centralised  
EU Countries

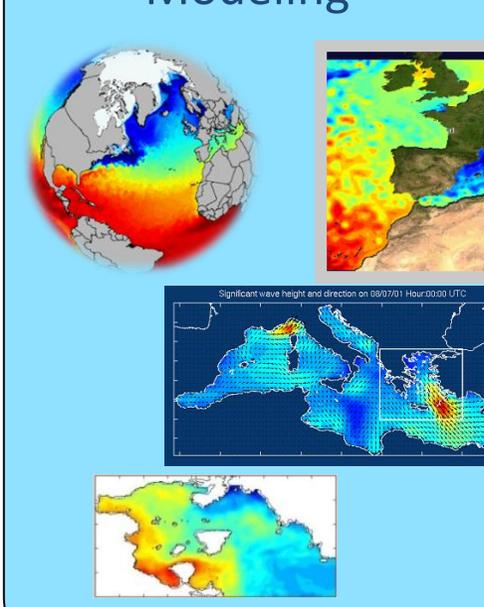
Copernicus  
Marine  
Service

Downstream  
Services

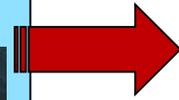
Observations



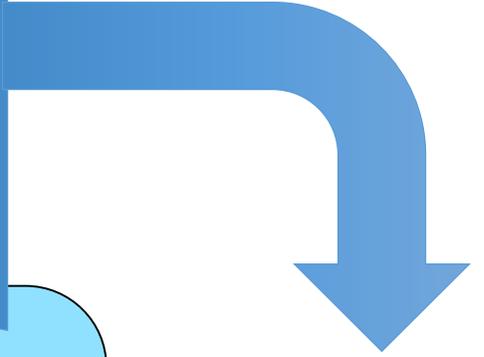
Processing & Modeling



Services



End Users



## Coastal Working Group

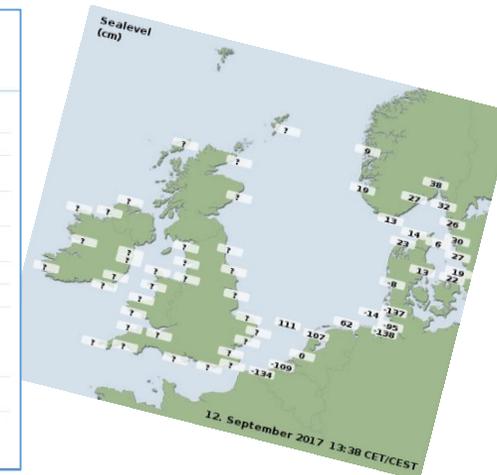
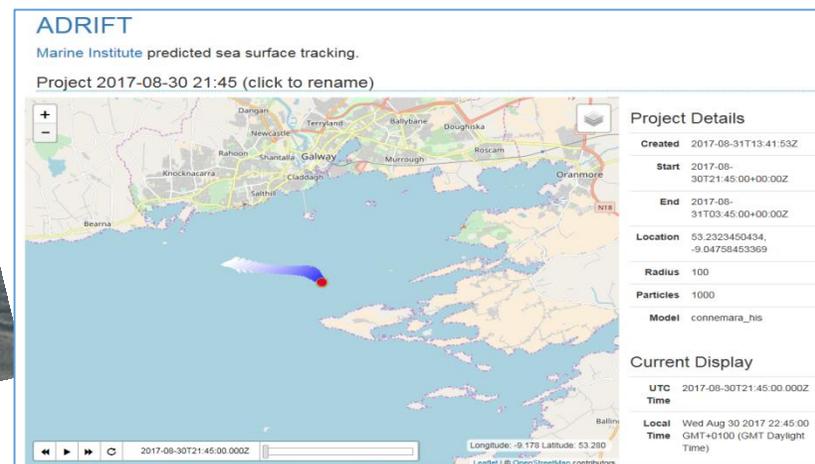
- The EuroGOOS Coastal working group will examine the entire value chain from coastal observations, satellite data, ocean forecasts and analysis, to products and services for coastal users.
- The working group will examine sustainability and fitness for purpose of the existing system and identify future steps needed to secure and improve all elements of the coastal value chain.
- The working group started its work with a kick-off meeting in Brussels on 9 May 2018.

# Coastal WG Objective

- The Group aims to provide recommendations and facilitate the creation of products and services by groups around Europe.
- The Group will also help to provide information of potential coastal data sources and users requirements.



Implemented by



# Coastal Working Group Members



*Coastal WG Kick Off Meeting, 9<sup>th</sup> May 2018, Brussels*

**Chair:** Ghada El Serafy (Deltares, Netherlands)

**Co-chair:** Anna Rubio (AZTI, Spain)

## **Members**

Joaquin Tintore (SOCIB, Spain)

Laura Ursella (OGS, Italy)

Federico Falcini (CNR, Italy)

Arthur Capet (Uni Liege, Belgium)

Joanna Staneva (HZG, Germany)

Eleanor O'Rourke (Marine Institute, Ireland)

Francisco Campuzano (IST, Portugal)

Jun She (DMI, Denmark)

Paloma de la Valee and Sebastien Legrand (RBINS, BE)

Bruce Hackett & Oyvind Saetra (Met Norway)

Veronique Creach (Cefas, UK)

Ivane Pairaud (Ifremer, France)

Marina Tonani (UK MetOffice)

Angelique Melet (Mercator Ocean, FR)

Sonja Wanke (Deltares, Netherlands)

EuroGOOS Office

# Coastal WG Actions

**Action 1:** Identify the most prominent or target users (existing or potential) for the working group products and services. → **Action in progress**

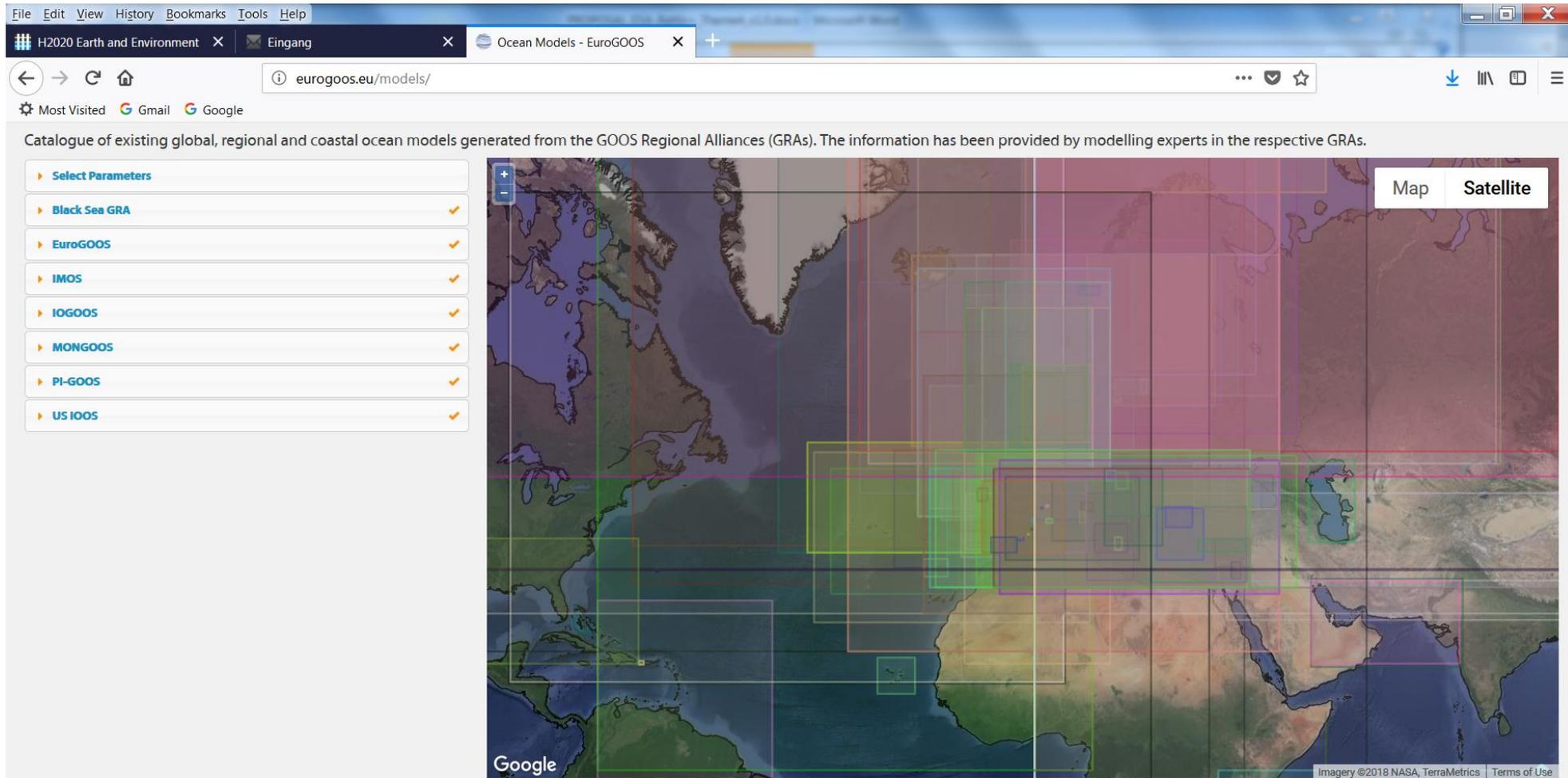
**Action 2:** Make an inventory of all existing coastal data available and identify potential sources of coastal data. (EMODnet portals, Checkpoints, JERICO-NEXT and data ingestion can be used as a first step) → **Action in progress**

All Coastal Working Group members can introduce here the existing or potential most prominent users of their products and services (please use blue for existing and red for potential users). The users can be listed under the following general categories/sectors but more can be added										
	Maritime safety	Water pollution	Offshore Energy	Tourism & Recreational Activities	Coastal protection	Ports & Shipping	Sustainable Marine living Resources	Weather & Climate	Basic and applied research in coastal oceanography	Other (Please Specify)
	e.g: SAR operators, coastguard, oil spill response managers, maritime emergency managers, Navy, national and local security agencies ...	e.g: Local authorities; European Marine Strategy Framework Directive (MSFD) ...	e.g: energy company managers; Environmental Impact Assessments...	e.g: recreational sailing, sports sailing/regattas, surfing, diving, citizens, NGOs	e.g. government environmental managers, beach and coastal planners ...	e.g: port managers, port pilots, ferry companies/captains, shipping companies/captains, cruise companies/captains	e.g: fisheries managers, fisheries scientists, commercial fishermen, recreational fishermen, sustainability	eg: Weather Forecast Centers (data for model validation, assimilation)	e.g: Academia, private research organizations, ONGs	
Deltares, Netherlands		Rijkswaterstaat (part of the Ministry of Infrastructure and Water Management of the Netherlands); WFD, MSFD, Bathing water directive, OSPAR and HELCOM			Rijkswaterstaat (part of the Ministry of Infrastructure and Water Management of the Netherlands)	Port authorities		KNMI	Imares	
Marine Institute, Ireland	Galway Bay search & rescue, Gardai/Police				Office of Public Works (coastal flooding responsibility) <b>Businesses in coastal zones</b>	Port authorities	Bantry Bay mussel farmers	Met Éireann (weather forecasting)		
IST, Portugal	EMSA - European Maritime Safety Agency Lisbon Municipality Civil Protection	OSPAR DRGM, DROTA, DRAM (national and regional competent authorities for MSFD)	Enondas (wave forecast for Portuguese Pilot Zone)			Local ferry company	Aquaculture managers in Sines (mainland Portugal) and Madeira through european and national projects HABs authorities through european projects			
Ifremer, France	CEDRE (oil spill), SNSM (association for search and rescue)					Corsica Linea (private company ferries)		Meteo-France (weather forecasting)	CNRS, IRD (academia)	
DMI, Denmark	Royal Arctic Line, DMA, SMA, FCOO MRCG (SAD), DC	DCE, HELCOM, SYKE, SMHI	Energinet.dk, Dan Fluves	VESAB	KDI, Coastal age	Danish ports	DTU-Aqua, Danish Fish	DMI, SMHI, FMI, I	IOW, IOUG, MIG, IOPAS, KU, MSI, FMI, UL	

# Coastal WG Actions (continued)

**Action 3:** Review and improve the model inventory already existing in EuroGOOS webpage : (<https://eurogoos.eu/models>).

→ Action in progress



The screenshot shows a web browser window displaying the EuroGOOS models webpage. The browser's address bar shows the URL [eurogoos.eu/models/](https://eurogoos.eu/models/). The page content includes a navigation menu with the following items: **Select Parameters**, **Black Sea GRA**, **EuroGOOS**, **IMOS**, **IOGOOS**, **MONGOOS**, **PI-GOOS**, and **US IOOS**. Below the menu is a map of the Mediterranean region with several overlapping colored rectangles representing model domains. The map includes a zoom control on the left and a 'Map/Satellite' toggle on the right. The Google logo is visible in the bottom left corner of the map area.

## Coastal WG Actions (continued)

**Action 4:** Define a framework for integration and data assimilation of in-situ data into models to better define the observation points. → **Action in progress**

### **Task 4.1 A review on coastal sea characterization**

4.1.1 Baltic Sea

4.1.2 North Sea

4.1.3 Shelf Sea

4.1.4 Med. Sea

4.1.5 Black Sea

**Task 4.2 A review on observing efficiency and capacity**

**Task 4.3 A review on model errors and major challenges**

**Task 4.4 A review on coastal sea data assimilation (DA)**

**Task 4.5 A framework for optimizing European coastal sea monitoring and forecasting systems**

## Coastal WG Actions (continued)

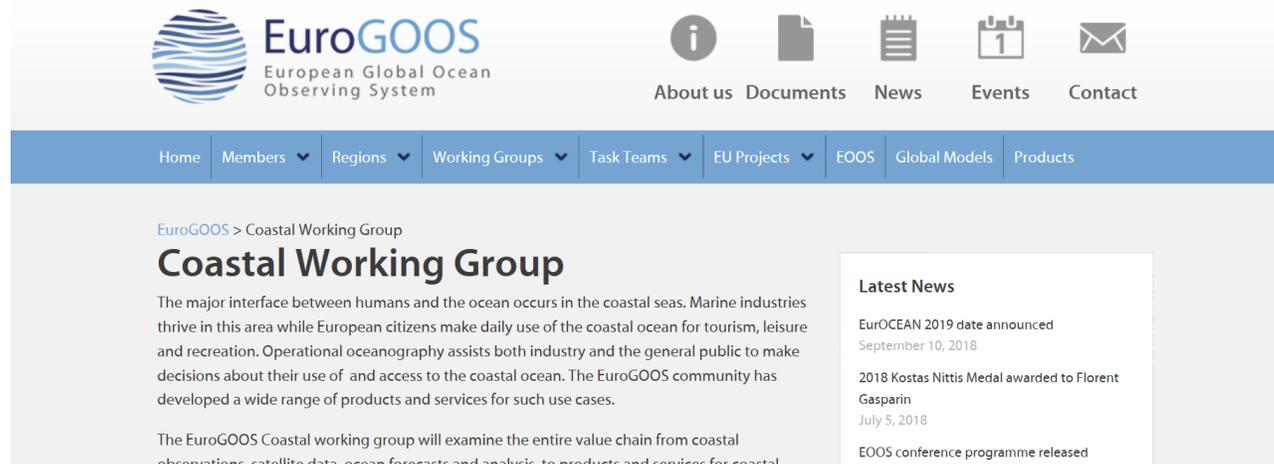
**Action 5:** Make an inventory of integrated coastal oceanographic - products using combination models, satellite and in-situ observations (broader one than the coastal oceanographic products at EuroGOOS)

→ Action in progress – outcome from A1-4

**Action 6:** Jointly assess the fitness for purpose of the current product portfolio and suggest future produced that could be co/developed for users (which will also help to identify the users)

# Coastal WG Actions (continued)

**Action 7:** Update and populate the Working Group website → Action in progress



<http://eurogoos.eu/coastal-wg/>

**Action 8:** Prepare a White Paper (recommendations) → Action in progress

**Action 9:** Collect information on campaigns based in citizen science (explore information from the Marine Board)

**Action 10:** Gather ideas from the members on how to collect user requirements – web questionnaire? 1-2 suggestion of ways to be integrated with Action 1. Each of the members to send a way to collect requirements to the users.

## Organization of work

- ✓ Regular Monthly Web-conferences (incl. minutes, recommendation)
- ✓ Next presential meeting planned for around EOOS conference in November 2018 (Brussels)
- ✓ Data/documents transfer via Dropbox
- ✓ Defining time frames/deadlines/milestones

## Some discussion points....

- Importance of cooperation with other initiatives and programmes
- Not ‘reinventing the wheel’ and using the output from other projects, programmes and the work of former COSMO coastal modelling WG
- Difference between a product and a service.
- Importance of defining the users and therefore targeting products to their specific needs.
- Not just looking at fitness for purpose of existing products but looking to future needs.
- What, to who and how will the WG communicate its message?