

COPERNICUS MARINE SERVICE ONLINE TRAINING WORKSHOP FOR ARCTIC REGION

April 5th and 6th 2022

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Sub-Theme 3: Data Sharing

Introduction

Copernicus Marine Service provides key data for the arctic environment monitoring sector to assess safety, economic, societal and environmental impacts. These data consist in products available for six regions including European side of Arctic, Baltic Sea and global products. The catalogue is made of three types of products: **model, satellite observations and In-Situ observations**. For example, data provided for the whole arctic area are sea level, sea ice concentration, sea ice extent, sea ice drift, sea ice thickness, sea ice temperature, iceberg density, wave height period, frequency and spectra, ocean colour and temperature, chlorophyll-a and salinity. The main users are national ice services, arctic policy makers, maritime shipping companies, oil&gaz manufacturers, insurance companies and research institutes. New users are trained through workshops and one will be organized especially for the Arctic region.

Copernicus Marine Service is not just a data provider. It publishes regular Ocean State Reports and provides Ocean Monitoring Indicators that are essential variables monitoring the health of the ocean over the past quarter of a century. It also allows users to visualize the catalogue through MyOcean and its versions for beginners to experts. For all these services, Copernicus Marine Service provides training, user support and e-learning material.

Shared data and User Experience

European Union Arctic Policy is designed to help Europe lead the way in meeting the challenges alongside the international community. The Copernicus Marine Service supports the EU Arctic Policy by providing free and open data as well as services that contribute to: sustainable development, combating and adapting to climate change, environmental protection, as well as supporting international cooperation.

The Copernicus Marine Service gives a complete answer to the following statement: *“the IASC-SAON Arctic Data Committee, and the broader Polar Data Community are advancing priorities such as enhancing data findability, access and usability”*. In fact, by providing open-source and free data with e-learning material and a strong user support, Copernicus Marine Service is a key actor for Ocean Data sharing. In order to provide a tailored support for new users, Mercator Ocean international (MOi) leads the Copernicus Marine Service training program. After two seasons of training workshops organized in the six European regions (Baltic Sea, North West Shelf, Black Sea, Iberia-Biscay-Ireland, Arctic and Mediterranean Sea) in 2018 and 2019, MOi has switched to a remote training workshops cycle in 2020 due to the pandemic. This change enabled these training sessions to be more followed and to have up to 500 participants for a training when this number was capped at 50 for logistical reasons during in-person events. For 2021, MERCATOR OCEAN chose to dedicate a cycle of three workshops to the rest of the world. Over a thousand people attended the Asian, American or African sessions.

The 2022 season will be dedicated to the six enlarged European regions. **The tailored session for Arctic Sea is planned on April 5th and 6th.**

Training Program content

This training sessions aims at teaching participants to browse the **catalogue, view and extract data, and use these data** in their own applications at a basic level. They will be familiar with the Service Desk if have any questions. Arctic use cases of Copernicus Marine Service data will be introduced as examples of application. After an overview of the wide portfolio of products available (model, satellite, in-situ), the participants will be trained with e-learning material such as Jupyter Notebooks designed by experts or QGIS tutorials. Some free talk with the experts will be allowed. More than what can be explained in a training session, being part of Copernicus Marine Service community opens the gate to a large pool of E-learning material and videos from previous trainings.

Training Agenda

<i>Workshop Day 1 – April 5th – PRODUCTS AND USER TESTIMONIES – duration: 1h30</i>
Welcome & Program
Copernicus Marine Service video presentation
Satellite Products overview + Q&A
In-Situ Products overview + Q&A
Model Products overview + Q&A
User Testimonies + Q&A
User Corner & E-learning material available
Workshop 2 program

<i>Workshop Day 2 – April 6th – PRACTICAL SESSIONS – duration: 3h</i>
<i>Workshop Day 2 – Jupyter Notebooks</i>
Jupyter Notebooks detailed presentation
Notebooks Q&A
Break
<i>Workshop Day 2 - MyOcean</i>
MyOcean overview
MyOcean Q&A
<i>Workshop Day 2 – QGIS</i>
QGIS detailed presentation
QGIS Q&A

To register to this training session, please follow the link to the event page of Copernicus Marine Service : [Events | CMEMS \(copernicus.eu\)](#)