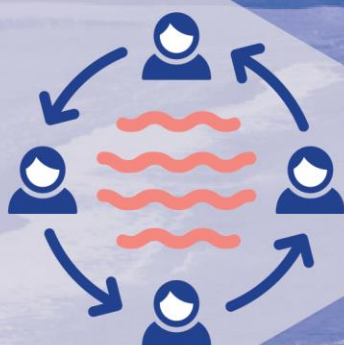


# COPERNICUS MARINE SERVICE ONLINE TRAINING WORKSHOP

for Iberia-Biscay-Ireland REGION



## PARTICIPANT MANUAL

#CMEMS4IBI



Copernicus  
Marine Service



Implemented by  
**MERCATOR  
OCEAN**  
INTERNATIONAL



CLUSTER MARÍTIMO DE CANARIAS

**PLOCAN**

PLATAFORMA OCEÁNICA DE CANARIAS



GOBIERNO  
DE ESPAÑA



Gobierno  
de Canarias





Dear participant,

The Copernicus Marine Service Online Training Workshop 2020 dedicated to the Iberia-Biscay-Ireland Region is organized by Mercator Ocean international, the implementer of the Copernicus Marine Service, PLOCAN and the Maritime Cluster of the Canary Islands.

This document will provide the necessary information to attend this meeting.

In case of any issues or questions, please contact the organizers at [training.cmems@mercator-ocean.fr](mailto:training.cmems@mercator-ocean.fr)

We wish you a pleasant workshop.

The Copernicus Marine Training Team

## Summary

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# 1.Co-organizers of the event



## The Oceanic Platform of the Canary Islands (PLOCAN)

### Consortium

The Oceanic Platform of the Canary Islands (PLOCAN) is a Research Infrastructure (RI) labeled by the ICTS (Unique Scientific and Technological Infrastructure) Spanish National Roadmap, co-funded by the Ministry of Science, Innovation and Universities of the Spanish government and the Canary Islands government and by the European Regional Development Fund (ERDF) under the Operational Programme of the Canary Islands.

### Multipurpose technical-scientific service infrastructure

PLOCAN is a multipurpose technical-scientific service infrastructure that provides support for research, technological development and innovation in the marine and maritime sectors, available to public and private users. PLOCAN offers both onshore and offshore experimental facilities and laboratories, operational throughout the whole year thanks to the Canary Islands excellent climatic conditions. PLOCAN also brings a broad experience in large national and EU marine/maritime projects.



## The Maritime Cluster of the Canary Islands (CMC)

### Key actor in the maritime sector of the Canary Islands

The Maritime Cluster of the Canary Islands is a non-profit association with a regional scope whose main objective is to promote the development and international competitiveness of the Maritime Sector of the Canary Islands, in turn raising the business, economic and social fabric of the Canary Islands. This is done through the integration, creation, strengthening and sustainability of the companies and institutions that are within the value chain of the maritime marine sector, promoting its international presence and raising the technological and innovative standards of all the agents involved, aligned with policy development and social demands.

The strategy to achieve this goal is based on values such as cooperation, commitment, communication and competitiveness.



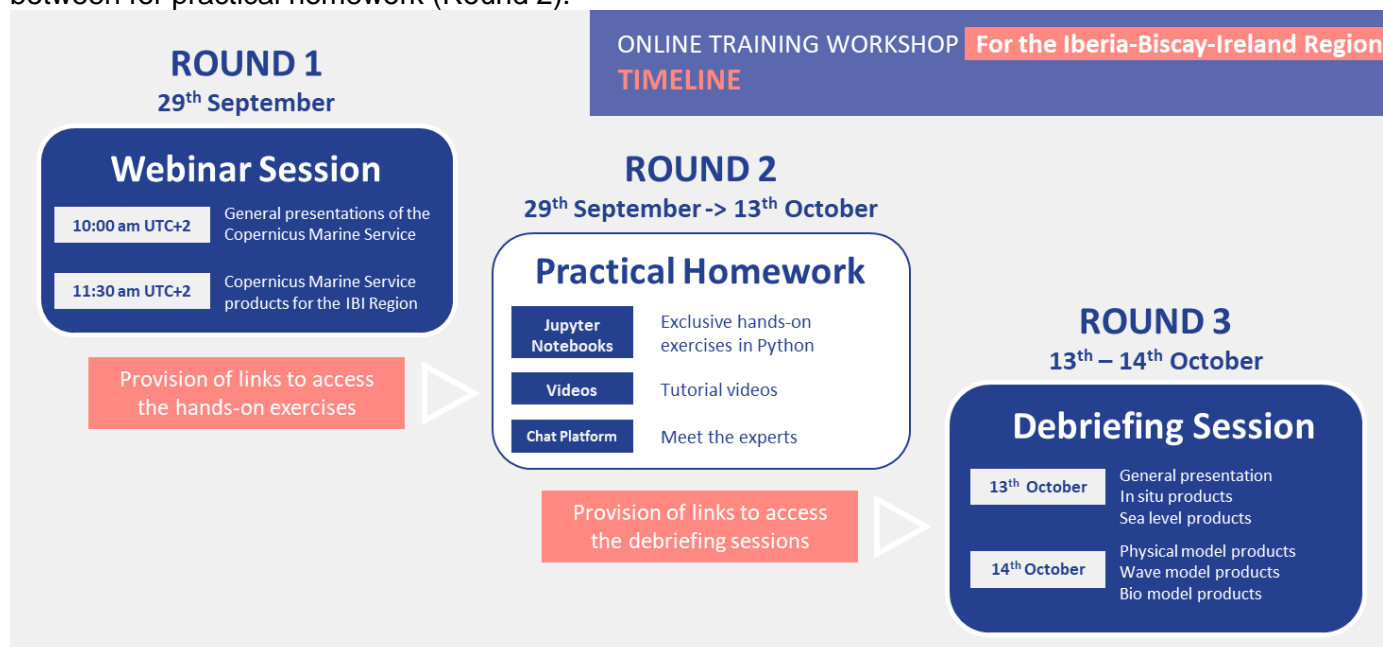
## 2. The workshop

- The workshop will be held online and involve self-directed and interactive learning
- The workshop aims to bring together experts with users of marine products
- It will consist of a mixture of plenary expert talks, discussions and hands-on practical exercises to explore the Copernicus marine product catalogue
- The target audience is mainly beginners and new users

By the end of this training event you will be able to:

- describe the potential value of using Copernicus marine products
- identify relevant Copernicus marine products that would be appropriate for you to use
- navigate the Copernicus marine product catalogue
- confidently use appropriate tools and products from the catalogue
- input into the future design and development of Copernicus marine service tools and products

The Copernicus Marine Service training workshop for the Iberia-Biscay-Ireland region will now be conducted online comprising 3 appointments (Rounds 1, 3-A & 3-B) with an interval of 1 & 2 weeks in between for practical homework (Round 2).



### Your Hosts and Moderators



#### Josefina Loustau

Josefina is a biologist at PLOCAN. She gives technical support to the general management department (CEO) and manages projects related to R&D in the Macaronesian region. She is responsible for quality assurance in the organization and also for data protection.



#### Elba Bueno

Elba is an Industrial engineer and the manager of the Maritime Cluster of the Canary Islands. She is responsible for the organizational structures and the commercial, marketing and external actions of the cluster as well as the public relations with the regional, national and international administration.



#### Fabrice Messal

Fabrice is a scientific engineer at Mercator Ocean international with a background in science & applications, numerical imagery and extensive experience in visualization software development & scientific mediation.



#### Vincent Legros

Vincent is a marketing officer at Mercator Ocean international. He manages the operational marketing for the WEKEO and the Copernicus Marine Service events through communication campaigns, surveys, impact studies and analyses.

# 3. Agenda

## ROUND 1 – WEBINAR SESSION

LIVE SESSION – Webinar – Tuesday, September 29<sup>th</sup>, 2020

Moderation by J. Loustau, F. Messal & V. Legros

Start Time (UTC+2)	Part 1 - General Presentations & Users testimonies	Duration	Speaker
10:00 am	Welcome & Intro	5'	Josefina L & Fabrice Messal
	Copernicus Marine Service – General Presentation (10') + Q&A (5')	15'	Fabrice Messal
	Copernicus Marine Service - Service Desk (10') + Q&A (5')	15'	Cédric Giordan
	Downstream user testimony #1: (10') + Q&A (5') Ocean currents in support to gliders piloting Integrated Marine Advanced Technology System – ULPGC	15'	Antonio Gonzalez Ramos
	Downstream user testimony #2 (10') + Q&A (5') Oleg Naydenov accident, monitoring oil spills Institute of Mathematical Sciences (ICMAT)	15'	Ana Maria Mancho
Virtual Coffee break			
Start Time (UTC+2)	Part 2 - Regional Products & Practical sessions	Duration	Speaker
11:30 am	IBI Model Regional products (Physical, Wave & Bio) (20') + Intro Jupyter Notebook (5') + Q&A (5')	30'	Arancha Amo Álvaro de Pascual Collar
	Ocean Colour products (10') + Intro Jupyter Notebook (5') + Q&A (5')	20'	Silvia Pardo
	In Situ Observation products (10') + Intro Jupyter Notebook (5') + Q&A (5')	20'	Fernando Manzano
End 12:40 pm			

## Your Experts:



### Cédric Giordan

Cédric is the Service Desk Manager at Mercator Ocean international. Previously, he was an ocean & weather

forecaster in the French Navy. He will be your user support expert.



### Antonio G. Ramos

Antonio is a marine senior scientist at the Robotic & Computational Oceanography division of the University of Las Palmas Gran Canaria. He

has participated in more than 40 marine investigation projects.



### Ana Maria Mancho

Ana is a senior scientist in the Spanish National Research Council (CSIC) at the Instituto de Ciencias Matemáticas (ICMAT) where she leads the

Geophysical Fluid Dynamics Group.



### Arancha Amo

Arancha has 7 years of experience in operational suite monitoring and Service Desk duties and is currently responsible

for the maintenance and monitoring of the IBI-MFC in the framework of the Copernicus Marine Service.



### Álvaro de Pascual Collar

Álvaro is a member of the IBI-MFC since 2015, currently hired in the frame of the Copernicus Marine Service as a

developer of climatic products and researcher of model sensitivity tests associated with the transition into operations of operational systems.



### Silvia Pardo

Silvia is an ocean colour scientist at the Plymouth Marine Laboratory (PML) Earth Observation group, whose research interests include the development

of satellite chlorophyll algorithms and the assessment of climate change effects on ocean surface chlorophyll trends and anomalies.



### Fernando Manzano

Fernando is a technical leader of the Copernicus In Situ TAC - IBI region with 15 years of

experience in a multidisciplinary approach, always related to data treatment. He has been engaged in physical oceanography projects during the last 10 years.



### Elena Di Medio

Elena is a Copernicus Marine User Support Expert for Mercator Ocean international. She deals with all kinds of daily user requests and

helps Copernicus Marine users solve problems in data processing.



### Paz Rotllan Garcia

Paz is a programmer and web developer at the SOCIB Data Centre team with a background in physical oceanography and geophysical fluids and

is currently enrolled in the MSC Big Data and Business Analytics (UPO).

## ROUND 2 – Practical Homework

### HANDS-ON SESSIONS – From September 29th to October 13th

- Registered people will have access to the following:
- Online tutorial videos to introduce important concepts (NetCDF format, Jupyter Notebook environment...), which can help beginners understand and run the hands-on sessions
- Practical sessions (Jupyter Notebook) created by Copernicus Marine Service experts
- Dedicated tutorial videos presented by the Jupyter Notebook authors who demonstrate how to run the corresponding Jupyter Notebooks
- A chat/forum platform to collect questions/blocking points and discuss with experts (following their availability)

After Round 1, registrants will receive a login/password to access the JupyterHub platform. These credentials are personal and dedicated to this platform. Your Copernicus Marine Service credentials will not work on this platform. Find [more information on the platform here](#).

#### List of the Online Sessions Available for the IBI Region:

Format	Topic
Jupyter Notebook + Tutorial Video	Practical session on in-situ observation products
Jupyter Notebook + Tutorial Video	Practical session on ocean colour products
Jupyter Notebook + Tutorial Video	Practical session on physical model products
Jupyter Notebook + Tutorial Video	Practical session on biogeochemical products
Jupyter Notebook + Tutorial Video	Practical session on wave model products

#### Optimize your experience! Be registered!

To optimize your experience, be able to run the sessions on your own and access products, you need Copernicus Marine Service credentials. If you are not yet registered, please visit the [registration page](#).

## ROUND 3 – Debriefing sessions

These live sessions are designed to allow products experts and trainers to:

- answer the frequently asked questions from the forum platform
- demonstrate how to solve problems due to blocking points on the practical exercises
- exchange directly with participants

### LIVE SESSION 3-A – Online Meeting - Tuesday, October 13<sup>th</sup> 2020

Moderation by J. Loustau, F. Messal & V. Legros

Start Time (UTC+2)	Topics	Duration	Speaker
10:00 am	Website: registration, extraction, visualization...	30'	Elena Di Medio
	Practical session on in situ observation products	30'	Paz Rotllan García, Fernando Manzano
	Practical session on Ocean Colour products	30'	Silvia Pardo

### LIVE SESSION 3-B – Online Meeting - Wednesday, October 14th 2020





Moderation by J. Loustau, F. Messal & V. Legros

Start Time (UTC+2)	Topics	Duration	Speaker
10:00 am	Practical session on physical model products	30'	Àlvaro de Pascual Collar
	Practical session on bio model products	30'	Àlvaro de Pascual Collar
	Practical session on wave model products	30'	Àlvaro de Pascual Collar

## 4. Tools and Platforms

Several tools and platforms are used during the workshop.

Attendees will receive information (links, logins...) **on the day of Round 1** to access the training material (tutorial videos, presentations...) and platforms (chat, JupyterHub...).

<b>Storage</b>  To share presentations, Jupyter Notebooks, videos...	<b>Webinar platform</b>  For online sessions (Rounds 1 & 3), live presentations, live Q&A chat with experts...
<b>Chat Platform</b>  Access created with the participants list of Round 1 webinar session (29 Sept. 2020)	<b>Practical sessions</b>  Access created with the participants list of Round 1 webinar session (29 Sept. 2020)

### 4.1 Webinar platform: ClickMeeting

We would like to share with you a list of simple rules, or an “online meeting etiquette,” for everyone to follow in order to make this event efficient, productive and successful.

#### Online Meeting rules

1. The meeting will be recorded and published on the YouTube channel of the Copernicus Marine Service.
2. When joining the meeting, participants should enter their first and last names.
3. Participants must mute their microphones and disable the cameras.
4. Josefina Loustau, Fabrice Messal & Vincent Legros will chair the meeting and give the floor to presenters and experts to lecture, provide inputs or give answers.
5. When asking questions, participants should use the Chat (send to "Everyone"). The chairs will choose and display questions to the presenters after their presentation.

More information here: <https://knowledge.clickmeeting.com/infographic/how-to-join-an-event-instruction-for-an-attendee/>



Before the event



Open the webinar in the updated version of one of supported browsers.

**SUPPORTED**

CHROME

FIREFOX

OPERA

SAFARI

EDGE

**NOT SUPPORTED**

INTERNET EXPLORER

YANDEX

Mobile access? We do support Chrome and Safari on smartphones as well as a dedicated mobile app.

**BROWSER**

CHROME

SAFARI

**MOBILE APP**

In the webinar room

Not seeing or hearing anything?

Can't hear anything? Reload the page and check if the tab is not muted.

RELOAD THE PAGE

UNMUTE

EXAMPLE SHOWN IN CHROME

The sound was muted.

☒ Allow sound

☐ Keep muted

Done

EXAMPLE SHOWN IN CHROME

Audio or video are not smooth enough? Release some bandwidth. Close unnecessary programs on the device and additional browser tabs.

Is video pod in the way? Click on the icon to dock the window to the right corner.

Monthly Statistic

oil gas rope

Month	oil	gas	rope
0	50	80	30
1	40	70	20
2	60	90	40
3	50	80	30
4	70	100	50
5	60	90	40
6	80	100	60
7	70	90	50
8	90	100	70
9	80	90	60
10	60	70	40
11	70	80	50
12	90	100	70
13	80	90	60
14	60	70	40
15	70	80	50
16	90	100	70
17	80	90	60
18	60	70	40
19	70	80	50
20	90	100	70

Danielle Bryant

Presenter

AV POD

ATTENDEES (32/100)

PRESENTERS

CHAT

Jasmine Ambler (presenter)

Vanessa Jefferson (moderator)

Welcome to the Getting Started webinar! My name is John and I'll be your moderator today. Please feel free to ask questions during the event.

John Smith | 12:30 PM

Hi John!

Greg Mint | 12:30 PM

Canada



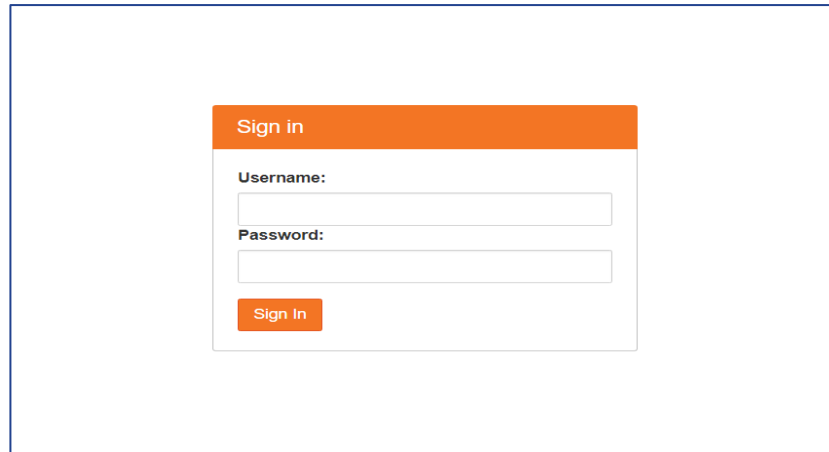


## 4.2 Practical Environment:

**On the day of Round 1**, the participants will receive an email from [jupyter.cmems@mercator-ocean.fr](mailto:jupyter.cmems@mercator-ocean.fr) with a personal login and password to access the JupyterHub platform.

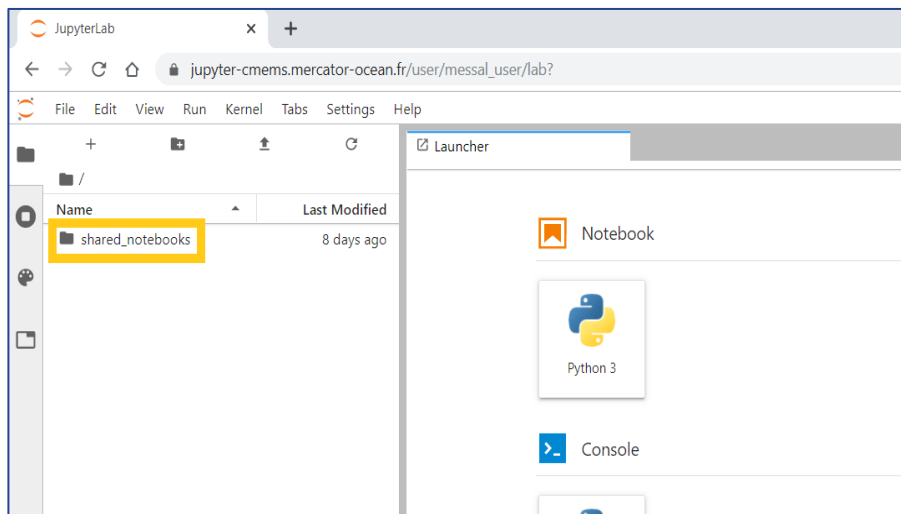
On your browser, go to the URL: <https://jupyter-cmems.mercator-ocean.fr/>

### 1-Login page: Enter your login and password

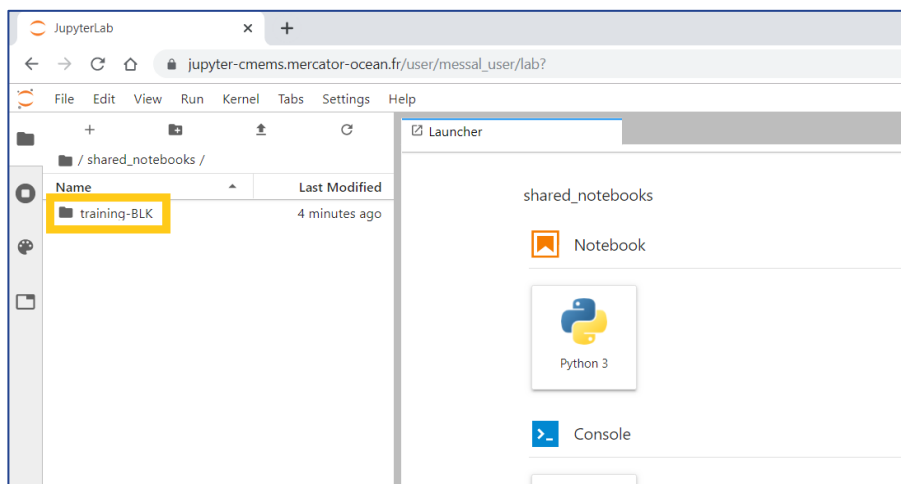


The image shows a 'Sign in' form with an orange header. It contains two input fields: 'Username:' and 'Password:'. Below the fields is an orange 'Sign In' button.

### 2- Visit the “shared\_notebooks”, the public folder

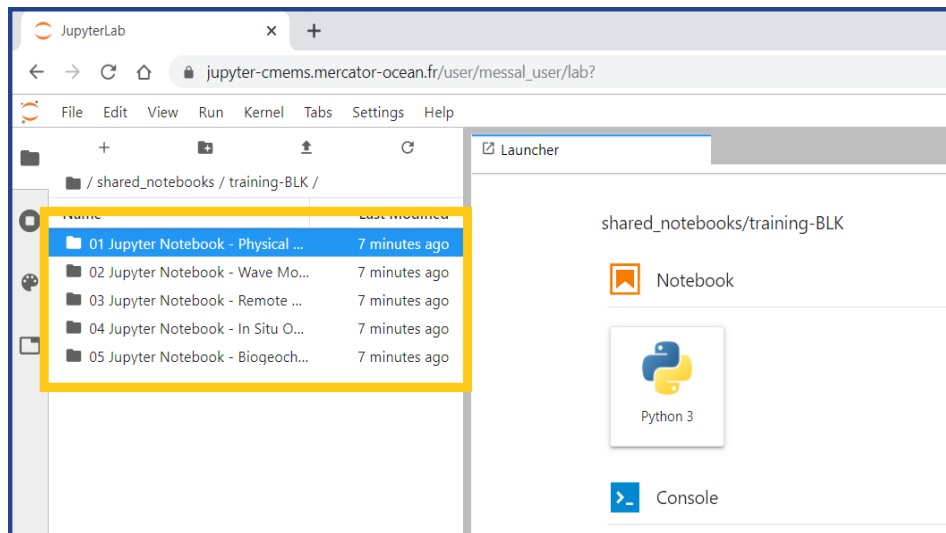


### 3- Visit the « training- IBI » folder (\*)



(\* note: the picture refers to the training-BLK notebooks list)

#### 4- You will see the list of the notebooks but...(\*)



(\* note: the picture refers to the training-BLK notebooks list)

Before you start working, you must copy the folder of the notebooks on your “home directory.”

#### You cannot work directly in the public folder!

To do that, you will have to launch a terminal and copy/paste the command line corresponding to the notebook you want to practice (see steps 5 and 6).

Below, you will find the list of the command lines. Respect the spaces and the character case. Don't forget the final dot!

For the 01 Jupyter Notebook – In Situ Products

```
cp -r /DATA/shared_notebooks/training-IBI/01\ Jupyter\ Notebook\ -\ In\ Situ\ Products .
```

For the 02 Jupyter Notebook – Physical Model Products

```
cp -r /DATA/shared_notebooks/training-IBI/02\ Jupyter\ Notebook\ -\ Phy\ model\ Products .
```

For the 03 Jupyter Notebook – Bio Model Products

```
cp -r /DATA/shared_notebooks/training-IBI/03\ Jupyter\ Notebook\ -\ Bio\ model\ Products .
```

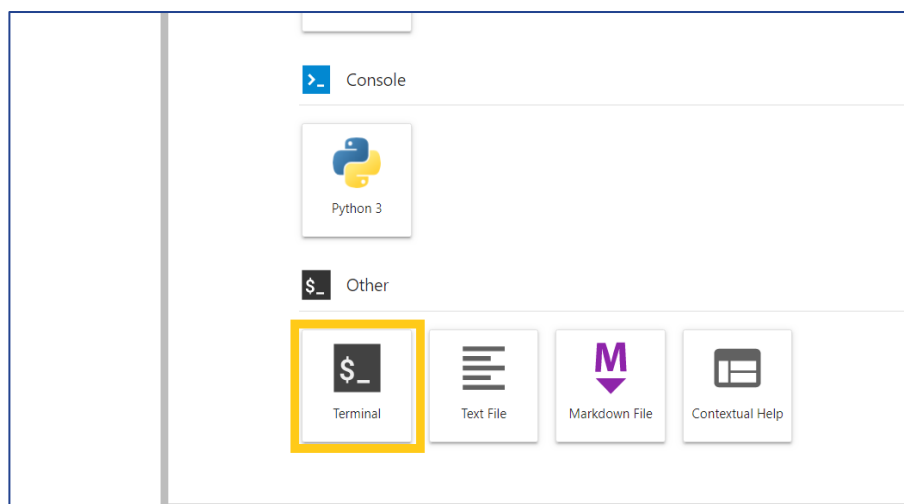
For the 04 Jupyter Notebook – Wave Model Products

```
cp -r /DATA/shared_notebooks/training-IBI/04\ Jupyter\ Notebook\ -\ Wave\ model\ Products .
```

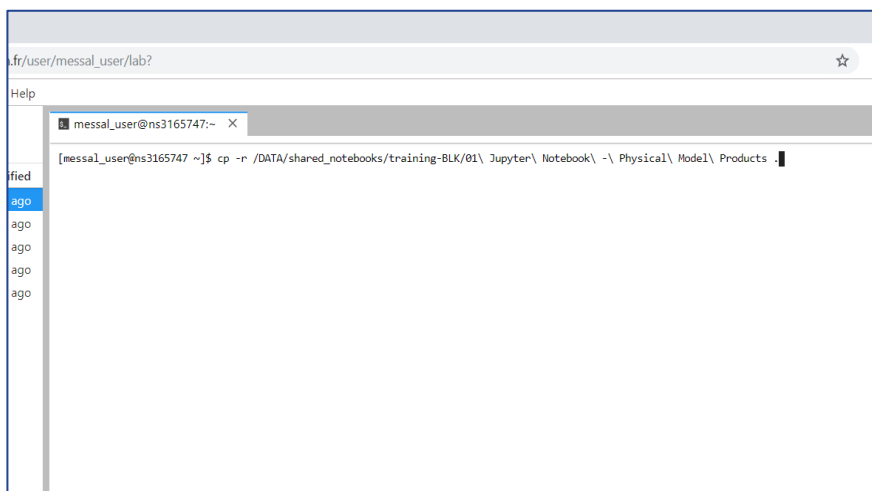
For the 05 Jupyter Notebook – Ocean Colour Products

```
cp -r /DATA/shared_notebooks/training-IBI/05\ Jupyter\ Notebook\ -\ Ocean\ Colour\ Products .
```

#### 5- To launch a terminal, click on the button Terminal

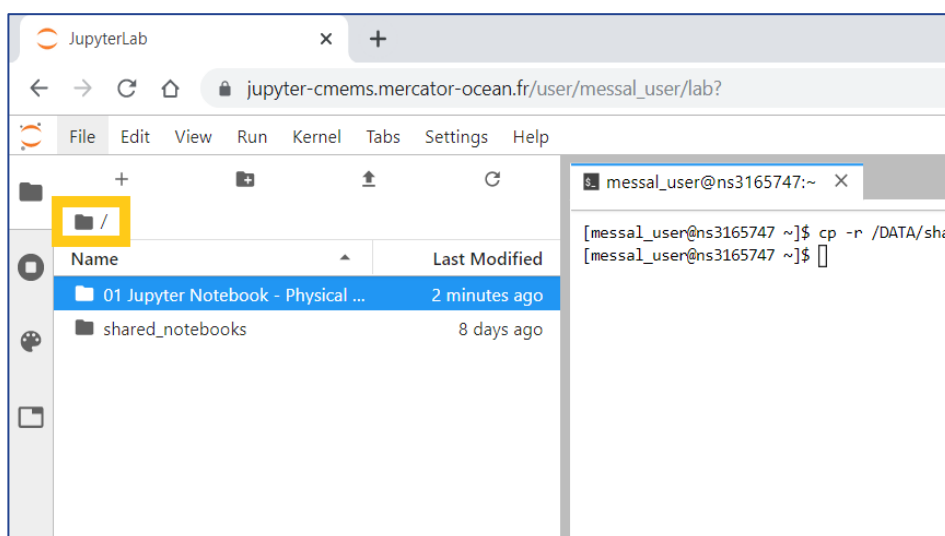


**6- Copy and run the command line corresponding to the notebook you want (\*). Enter.**



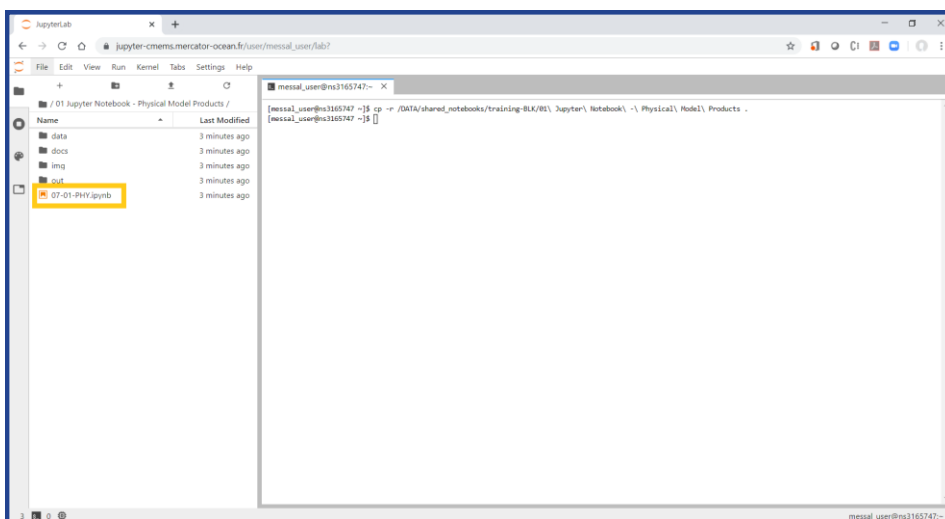
(\* note: the picture refers to the training-BLK notebooks list. Please, refer to the orange tab with the command lines for IBI folder)

**7- Back to your Home Directory (click on the folder icon), you will see your copy. (\*)**



(\* note: the picture refers to a training-BLK notebook)

**8- Launch your notebook and start to practice (\*)**



(\* note: the picture refers to a training-BLK notebook)

If you have any problem, contact the team on [jupyter.cmems@mercator-ocean.fr](mailto:jupyter.cmems@mercator-ocean.fr)



## 4.3 Chat platform:



**Mattermost**

### 4.3.1 Connect and Browse

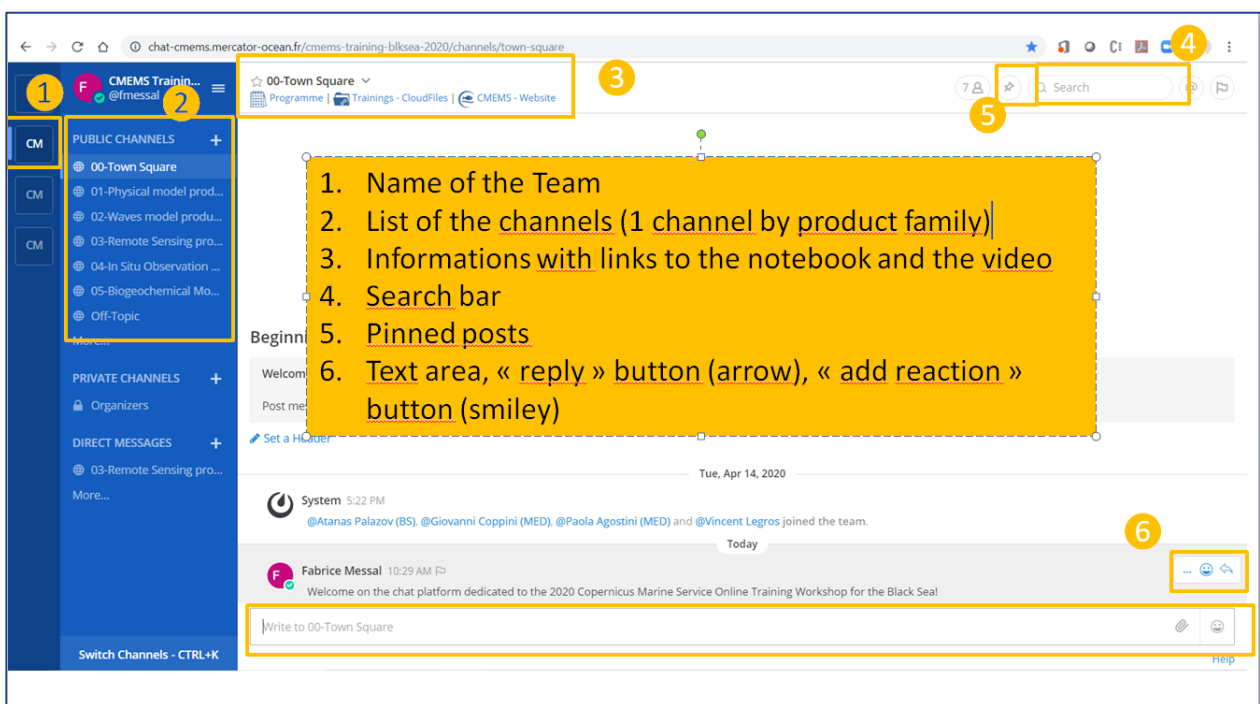
**On the day of Round 1**, an account for each participant will be generated with their email address used for registration.

To access the Chat, the participant must reset the password with their email address here:

[https://chat-cmems.mercator-ocean.fr/reset\\_password](https://chat-cmems.mercator-ocean.fr/reset_password)

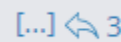
And then go to <https://chat-cmems.mercator-ocean.fr/>

### 4.3.2 The basics



Screenshot of chat platform.

- Write messages using the text input box at the bottom of the screen. Press ENTER to send a message. Use SHIFT+ENTER to create a new line without sending a message. To send messages on CTRL+ENTER and use ENTER to insert new lines go to Main Menu > Account Settings > Advanced > Send messages on CTRL+ENTER.
- Reply to messages by clicking the reply arrow next to the message text.
- Notify teammates when they are needed by typing @username.
- Format your messages using Markdown that supports text styling, headings, links, emojis, code blocks, block quotes, tables, lists and in-line images.
- More information: <https://docs.mattermost.com/guides/user.html>



### 4.3.3 Rules and guideline

## Chat Rules and Guidelines

We assume good faith when dealing with violations; we will only warn or ban users who repeatedly or blatantly violate the rules.

Administrators have the final say in modifying, interpreting and enforcing these rules.

If you observe someone breaking a rule or behaving in a questionable fashion, do not try to deal with it yourself. Alert a chat moderator or administrator.

### Subjects covered in the Chat

Posts in the chat must be either be questions about the use of products and services or answers to those questions.

Users who post about subjects that do not support requests for the use of Copernicus Marine Service products or the Jupyter Notebooks practice will be directed to an alternative discussion chat or to another resource, if appropriate, and the question will be tagged "off-topic."

### Posting Support Requests

Ask your question using existing public channels, even if a similar question has been already posted.

The chat is a way for us to collect frequently asked questions. The Copernicus Marine Experts reserve the right to directly answer questions on the chat or keep their answer for the debriefing live session.

### Spam

Users who post spam will have their posts removed. If a post that is otherwise appropriate includes links considered to be spam, those links will be removed.

### Images and other media

You can add images, such as a "screenshot" of your computer screen.

Images or other media added to a support question must help explain a problem with a Copernicus Marine Service product in the scope of the online training workshop content or a solution to the problem.

Inappropriate media will be removed.

### Sensitive information

Don't post any sensitive information.

### Language and Conduct

Respect each other.

Respect the experts.

Use respectful language.

Do not indulge in toxic behavior.

Be friendly.

Do not spread misinformation.

Do not share inappropriate content.

Last version updated: 07/09/2020

For your questions related to the training workshop  
(agenda, platform access, material...) please contact  
**[training.cmems@mercator-ocean.eu](mailto:training.cmems@mercator-ocean.eu)**

For any further information,  
please contact  
**[servicedesk.cmems@mercator-ocean.eu](mailto:servicedesk.cmems@mercator-ocean.eu)**