Using Copernicus Marine Service spatial data into EwE Modelling approach

7 June 2024, 9-17 CEST

Speakers: Valentina Giunta (MOi), Simone Libralato (OGS), Igor Celic (OGS), Stefano Piani (OGS), Gianpiero Cossarini (OGS)

Objective of the workshop: getting started with geospatial LTL data from the Copernicus Marine Service (CMS) and use it in EwE modelling

https://github.com/inogs/CMEMS4EwE

Morning session 9.00-12.45

Welcome and Registration to Marine Copernicus Service (9.00-9.20) *G. Cossarini*

Introduction to Copernicus Marine Service (9.20-9.50) *V. Giunta*

Tools (Conda, Jupyter and Python) for download and manipulate datasets (9.50-10.30) *S. Piani*

Select, visualize and download datasets through the MyOcean online Copernicus tool (10.30-11.00) *G. Cossarini*

Coffee break (15')

Jupyter Notebook on downloading datasets using Copernicus MarineDataStore (11.15-12.00) *S.Piani*

Jupyter Notebook on manipulate and visualize variables and datasets (12.00-12.45) *S.Piani and G. Cossarini*

Lunch break 12.45- 14.00

Afternoon Session 14.00-17.00

Embedding CMS products into EwE: intro (14.00-14.10) *S. Libralato*

Transform netcdf data into vector data and processing of data (14.10-14.40) *I. Celic*

Visualization of geospatial data in R (14.40-15.10) *I. Celic*

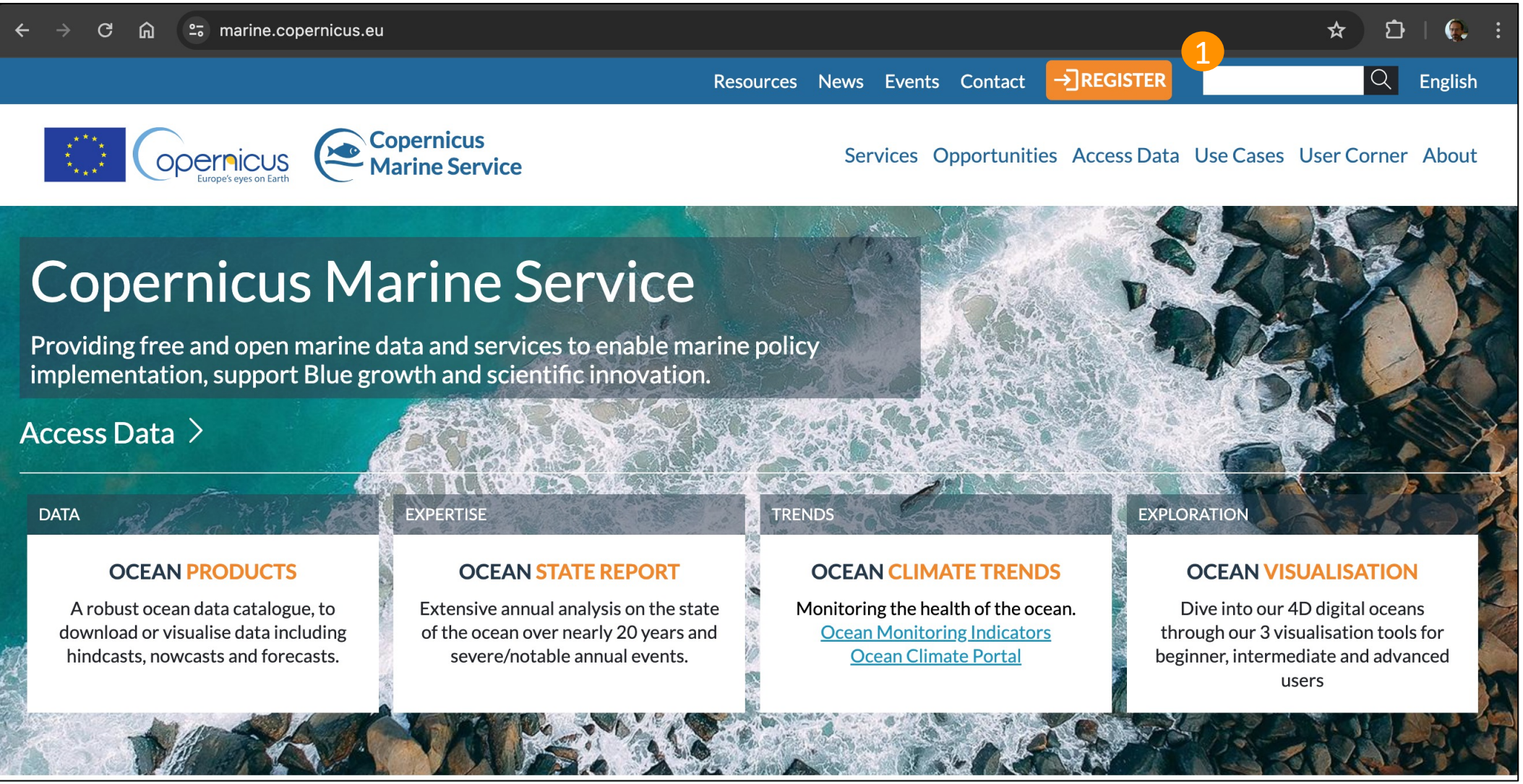
Coffee break (20')

From CMS inputs for Ecopath and Ecosim: use of a case study in the Med (15.30-16.00) *I. Celic*

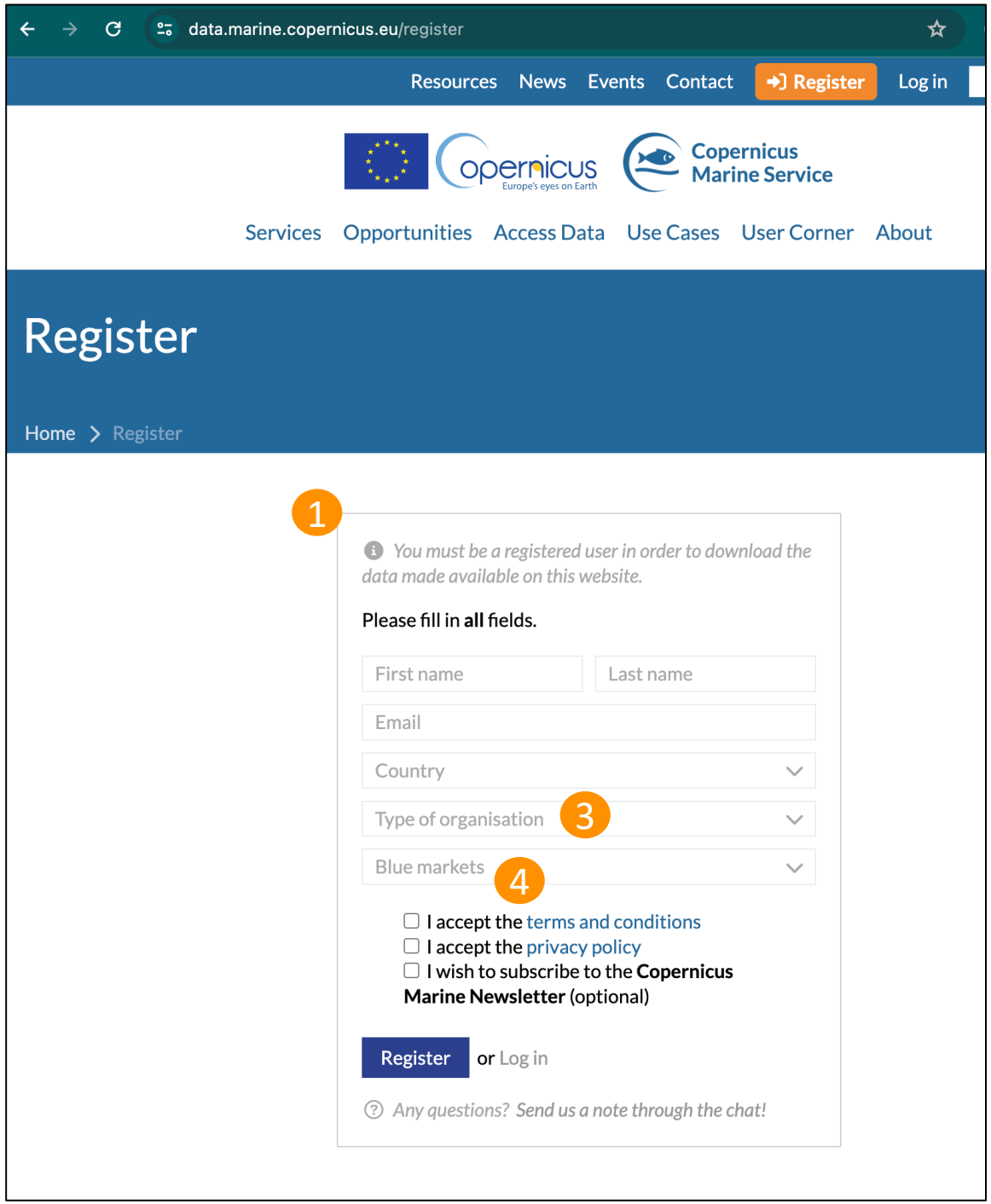
Processing data to be used in Ecospace: use of a case study in the Med (16.00-16.30) *I. Celic*

Wrap up of the workshop (16.30-17.00) *S.Libralato and V. Giunta*

Getting started with Marine Copernicus Service: single point of access (marine.copernicus.eu) and registration



(1) You must be a registered user in order to download the data made available on this website.



(2) Few requested details on personal information

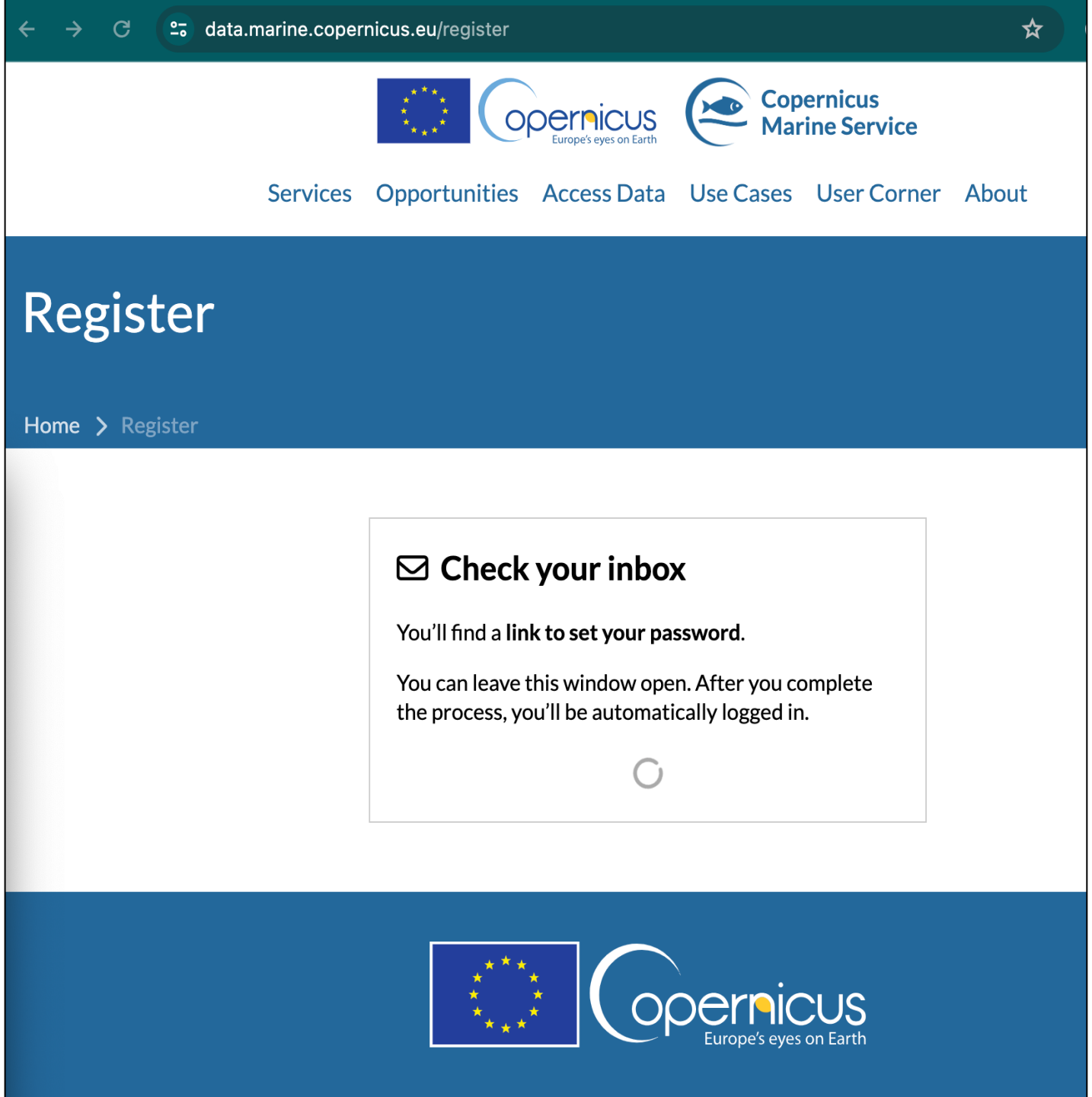
(3) type of organization:

Select your type of organisation:

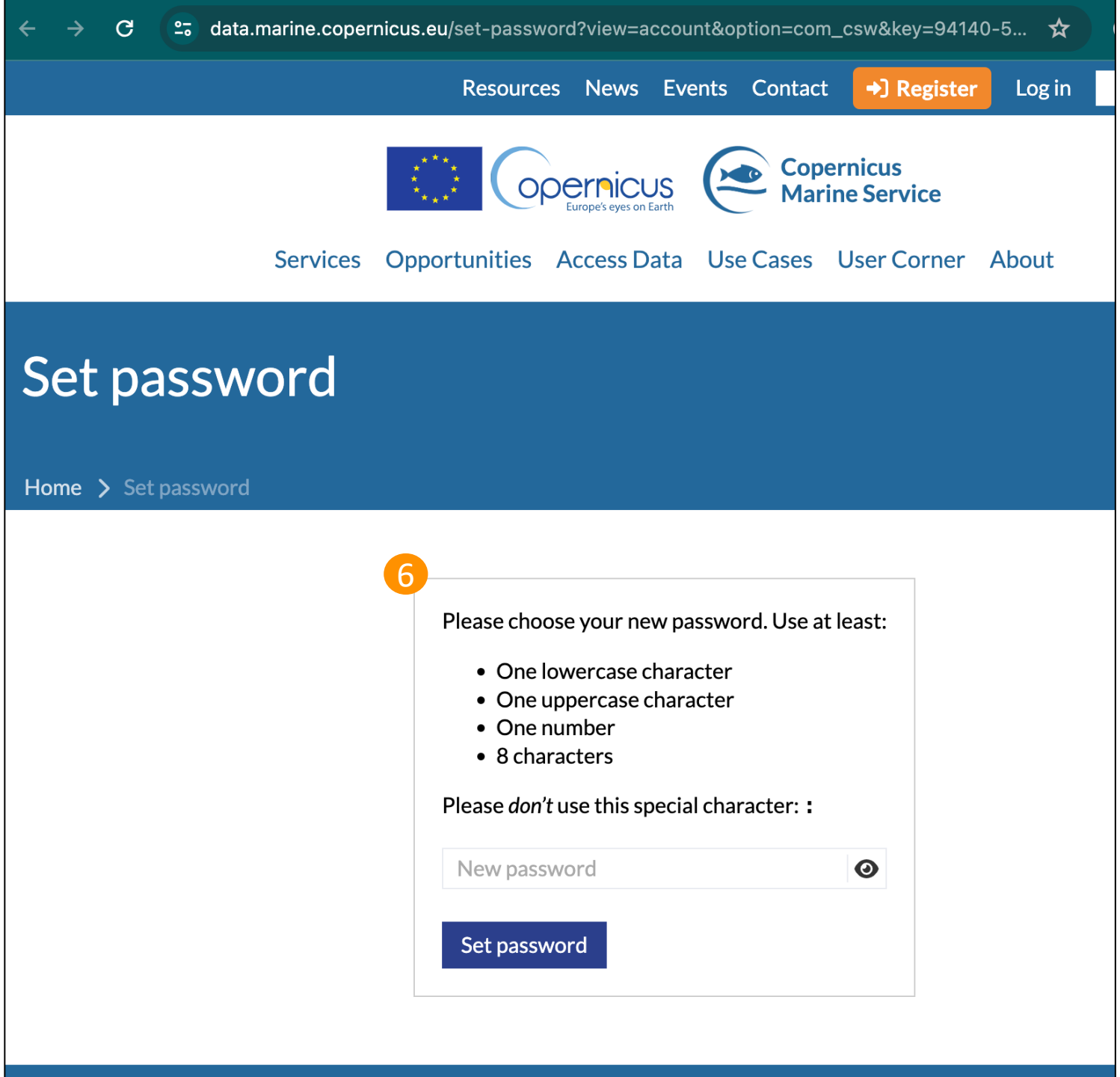
- Business and Private Company
- Public sector/Governmental (except University)
- University/Academic/Research
- Foundation Association (non-profit organisation)
- Others (no organisation)

(4) blue markets:

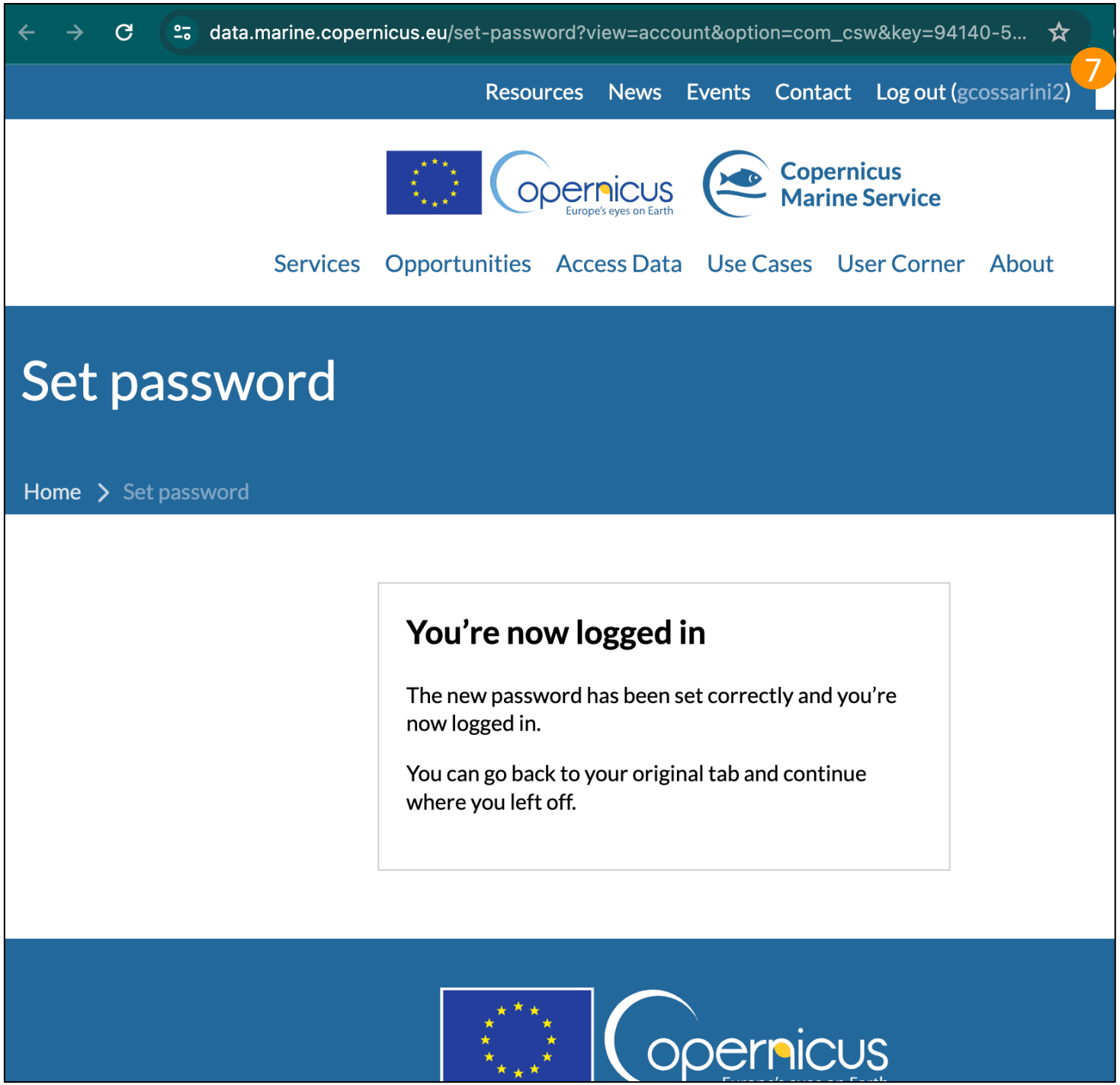
- Polar Environment Monitoring
- Climate & Adaptation
- Ocean Health
- Marine Conservation & Biodiversity
- Science & Innovation
- Policies & Ocean Governance & Mitigation
- Education & Public Health & Recreation
- Extremes & Hazards & Safety
- Marine Food
- Coastal Services
- Trade & Marine Navigation
- Natural Resources & Energy



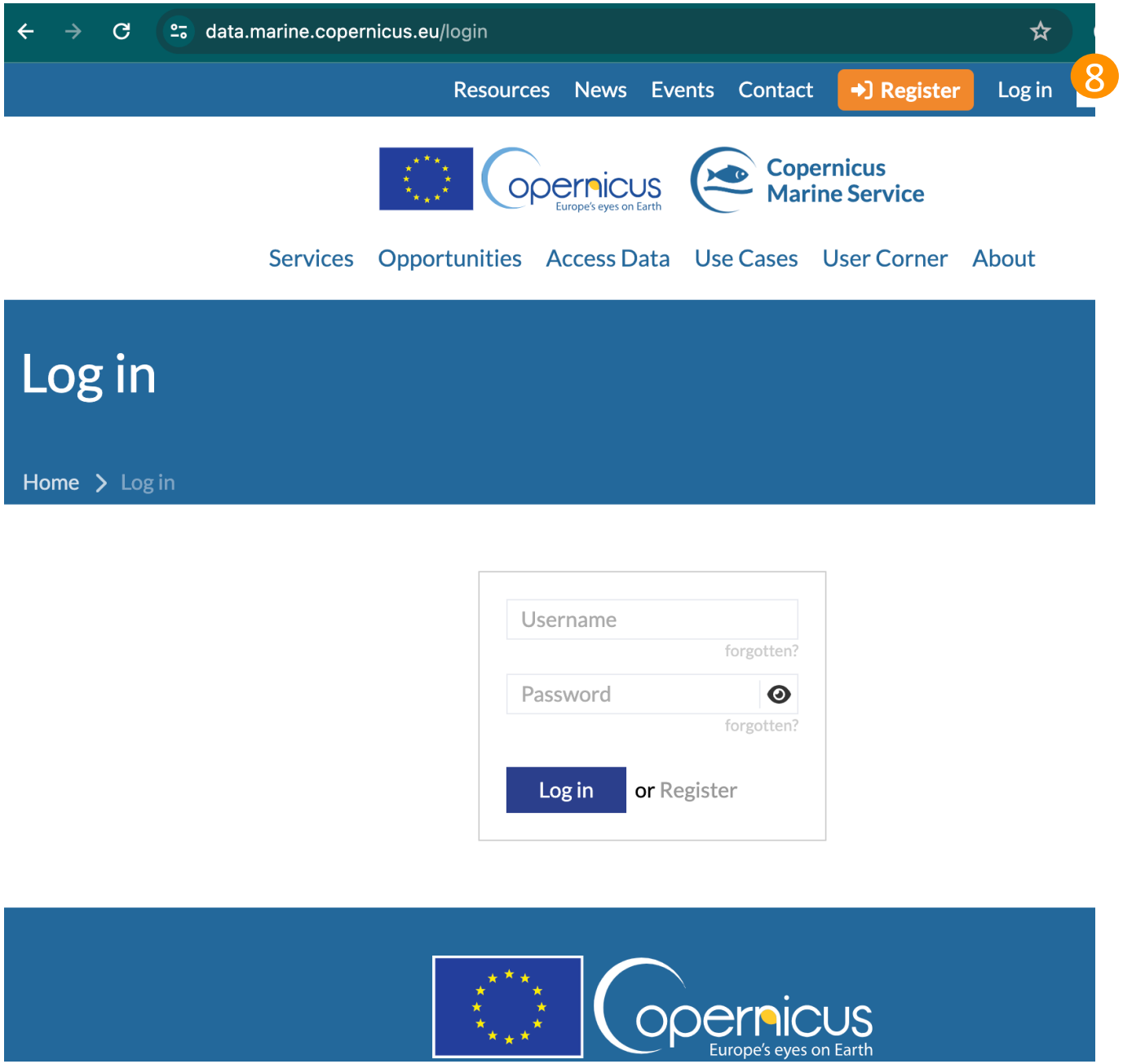
(5) You will receive an email with an username and a link to set your password



(6) after clicking the link in the email your received you can set your password



your username appears here (7)



before starting a new session on the Copernicus Marine Service webpage for downloading datasets, you can log in from **(8)**