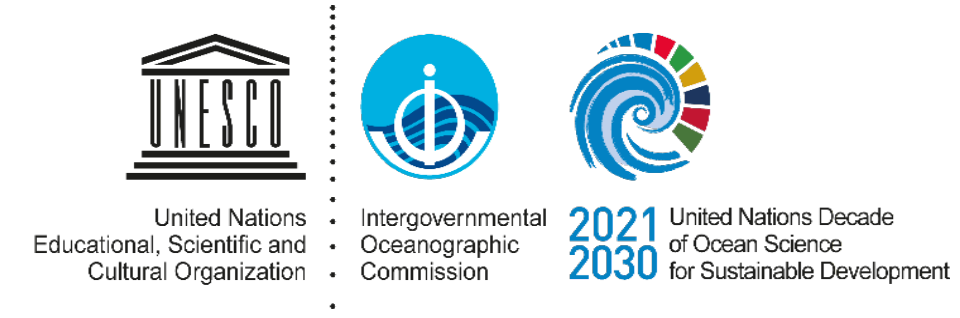# 16th EMODnet Steering Committee
# EMODnet for Global

16th EMODnet Steering Committee
27-28 April 2022

ZOOM
&
InnovOcean site, Ostend

EMODnet Secretariat
emodnet.ec.europa.eu

# EMODnet: Strengthening Partnerships for International Interoperability and Impact



**EMODnet is:**

- **A key partner for open data, open science, data diplomacy and digital data stewardship** in Europe, and beyond;

- **Interoperable data discovery and access,** in collaboration with other key data services

- **Further diversifying data parameters and sources** (e.g. industry, citizen science)
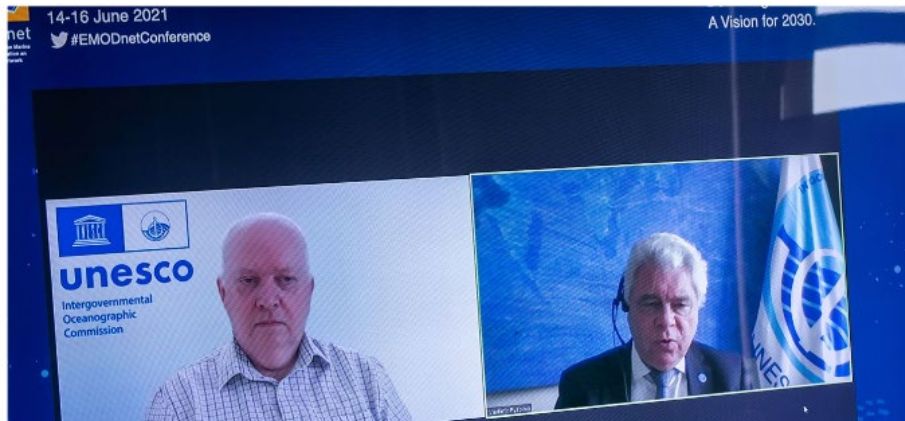
- **Extending FAIR** to FAIR, CARE and TRUST



**T**ransparency,
**R**esponsibility,
**U**ser focus,
**S**ustainability and
**T**echnology

**emodnet.ec.europa.eu**

# EMODnet: A regional marine data, information and knowledge service directly contributing in diverse ways to the UN Ocean Decade



"We want global data and information systems and EMODnet's guidelines are great for community of practice. The network is also a role model for other regions."
Peter Pissierssens, IOC-IODE UNESCO
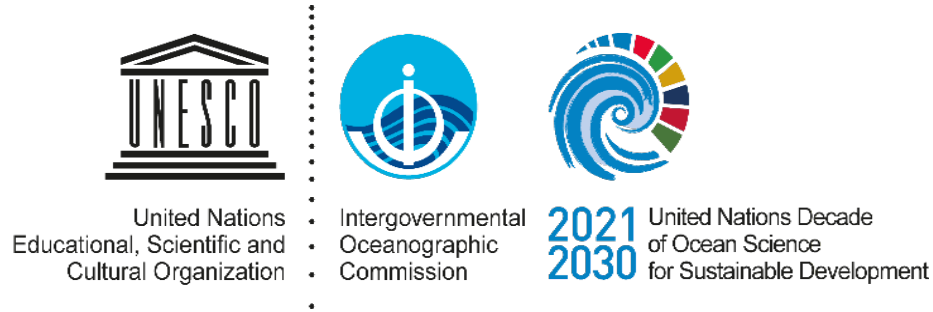
**emodnet.ec.europa.eu**

- Co-Chair of the UN Ocean Decade (OD) Data Coordination Group (Jan-Bart Calewaert, EMODnet Secretariat);

- Nominated membership for UN Ocean Decade (OD) Technical Data Group *(VLIZ, other to be confirmed)*

- Contributor and expert to the IWG-SODIS Intersessional Working Group Strategy on Ocean Data and Information Stewardship for the UN Decade (EMODnet Coordinators);

- Multiple inputs to UN OD Actions:
  - DITTO (Digital Twins of the Ocean, Steering partner)
  - COAST PREDICT (Advisor role)
  - Ocean Best Practices (EMODnet referenced)

# EMODnet: A regional marine data, information and knowledge service directly contributing in diverse ways to the UN Ocean Decade

UNESCO
United Nations
Educational, Scientific and
Cultural Organization

Intergovernmental
Oceanographic
Commission

2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development

16th EMODnet Steering Committee Meeting, 27-28 April 2022

EMODnet for the Ocean Decade
Coordination Group
(E4OD-CG)
Draft Terms of Reference (ToR)

- First version in February 2022

## Contents

- **Ocean Data and Information System (ODIS):** All EMODnet thematic portals/central portal are registered on ODIS catalogue. Additional records will be added from the EU-China EMOD-PACE marine data project;

- **IOC Ocean InfoHub Project (OIH):** EMODnet is a European focal point & technical advisor to the development of ODIS architecture & interoperability with EMODnet;

- EMODnet is setting up an EMODnet4OceanDecade Coordination Group to facilitate, coordinate and create greater impact for EMODnet contributions to the UN Ocean Decade. Terms of Reference (*16th SC meeting document 8*) and ongoing call for members from the EMOD-network (Coordinators and partners).

# EMODnet: Strategic partnerships and collaborative activities with EU marine data services e.g., Copernicus Marine Service for UN Ocean Decade



*Programme release & promotion coming soon*
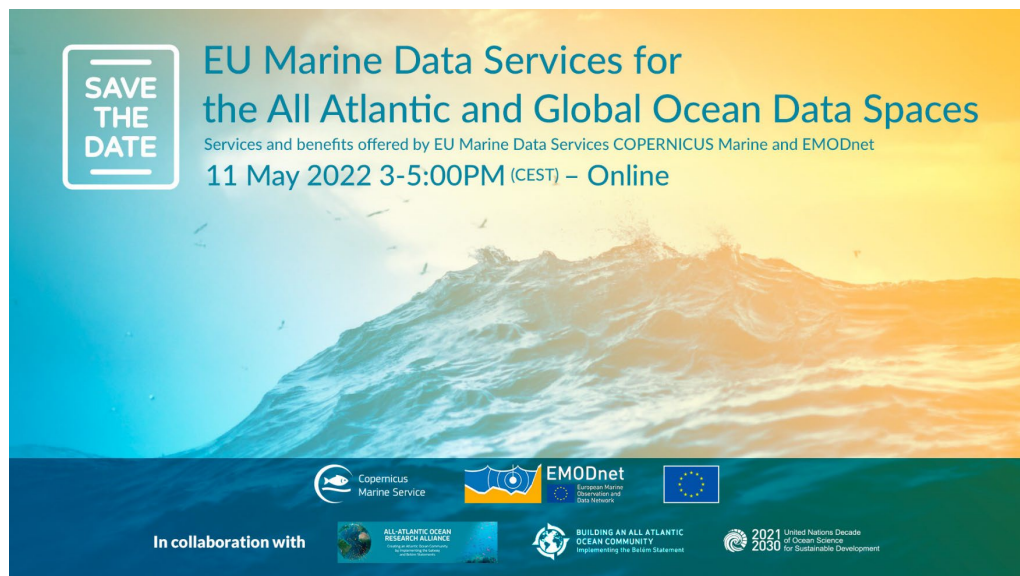
- **EMODnet and Copernicus Marine Service** are hosting a **joint webinar** on **11 May 15:0-17:00 CEST** on **"EU marine data services for the All Atlantic and Global Ocean Data Spaces";**
- This is an approved satellite activity of the UN Ocean Decade "accessible ocean" laboratory;
- EMODnet will be represented as co-organisers, meeting co-Chair, speakers and panelists e.g., EMODnet Bathymetry, Seabed Habitats and Data Ingestion (to be confirmed);
- Community use cases and testimonials from across the Atlantic Ocean (Brazil, South Africa, Europe, U.S. and international companies);
- This could be the start of more joint events and activities with Copernicus Marine Service, in the context of the UN Ocean Decade, led by the EMODnet4OceanDecade Group.

# EMODnet: Strategic partnerships and collaborative activities with Global Partners – Chinese NMDIS via EMODPACE-CEMDnet

中国-欧盟海洋数据网络伙伴关系 EMODnet PArtnership for China and Europe (EMOD-PACE)

China-EU Marine Data Network Partnership (CEMDnet) 中国-欧盟海洋数据网络伙伴关系

*EMOD-PACE CEMDnet Public Webinar - Ocean Decade Satellite Activity*

*Expanding Ocean data interoperability between Europe and Asia*

**Event**: EMOD-PACE & CEMDnet Webinar

**Date**: 11 May 2022

**Time**:
- 11:00-12:30 CEST (GMT+2 / Brussels, Belgium)
- 17:00-18:30 UTC (GMT+8 / Tianjin, China)

**Meeting connection link**: https://emodnetsec.my.webex.com/meet/EMODnet

**Outline Agenda**:
- Welcome
- Introduction to EMODPACE & CEMDnet projects – EMODPACE-CEMDnet Project & Scientific Coordinators, WP1 leads (15')
  - Approach & methods
  - Current status and main results
  - Ocean data interoperability and product development across countries and regions – lessons learned so far
- Benefits and Opportunities for other organisations, networks and institutes to participate (5')
- International Ocean Data interoperability: EMODPACE-CEMDnet in the wider global marine data landscape and developments – Peter Pissierssens (IODE) TBD (10')
- Case studies towards extending the partnership – invited guest speakers and experts – 25'
  - Introduction and setting the scene: NMDIS Data exchange and sharing cooperation in China and wider region – Dr. Sun Miao (NMDIS)
  - Marine Big Data Cooperative Research project China-Malaysia: Ocean Data Management for Researchers (TBC)-- Professor Dr. Aidy M MUSLIM, Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu
  - TBC
- Questions and Answers & Open discussion on possible further collaboration & common areas of interest of participants (15')
- Forward look and next steps: possible actions on short-medium & long term (10')
- Summary and Closure (5')

- **EMODnet and Chinese NMDIS** are hosting a **joint webinar** on **11th May 11:00-12:30 CEST** on **"Expanding Ocean Data interoperability between Europe and Asia"**;
- This is an approved satellite activity of the UN Ocean Decade "accessible ocean" laboratory;

- *The Webinar aims to inform interested marine knowledge providers, users and stakeholders about the EMOD-PACE and CEMDnet projects with the specific objective to work to 'extend the EMODnet-NMDIS partnership and EMODPACE-CEMDnet interoperable data services, to allow users to discover and view data with common formats held by other Asian data centres, not yet provided by NMDIS and/or EMODnet and explore options to co-develop relevant data products based on open data resources'.*

# EMODnet: Strategic partnerships and collaborative activities with the international community on marine data interoperability for the UN Ocean Conference 2022



https://www.un.org/en/conferences/ocean2022/events/side

- EMODnet is an instigator and co-organiser of a **UN Ocean Conference side event** on **"Marine Data Interoperability"**;
- Co-organisers include EMODnet, IOC-UNESCO and the UN Ocean Decade Data Coordination Group, IODE, EC, Fugro, VLIZ;
- The application will be submitted by 8 May 2022;
- This is planned as a hybrid event;
- EMODnet will be represented on the programme (still in finalization) and active participation from the EMODnet Steering Committee and wider EMOD-network is welcomed;

If you are attending the UN Ocean Conference and/or organizing a side event let the EMODnet Secretariat know to help coordination.

中国-欧盟海洋数据网络伙伴关系 EMODnet PArtnership for China and Europe (EMOD-PACE)

China-EU Marine Data Network Partnership (CEMDnet) 中国-欧盟海洋数据网络伙伴关系

# EMOD-PACE

**E**uropean **M**arine **O**bservation and **D**ata Network **Pa**rtnership
for **C**hina and **E**urope

# CEMDnet

**C**hina-**E**uropean **U**nion **M**arine **D**ata **N**etwork **P**artnership

中国-欧盟海洋数据网络伙伴关系 - 中国-欧盟海洋数据网络伙伴关系

Strengthening International Ocean Data through the European Union's Ocean Diplomacy with China

Contact details: *eu-chinapco@emodnet.eu*

# EMODPACE-CEMDNET
# Objectives

**Facilitate** European and Chinese engineers and scientists to build up a picture of the marine environment using data from both sources.

**Promote** international ocean governance and support the implementation of global commitments by **making ocean marine data and data products more easily accessible and by providing better data and data products**.

# EMOD-PACE Work Packages

**Work Package 0** - Project Coordination, Management and Communication

**Work Package 1** - EU-China Web Portal, creation of **interoperable information system** linking EMODnet & NMDIS

**Work Package 2** - Establishing **data interoperability** between EMODnet and NMDIS
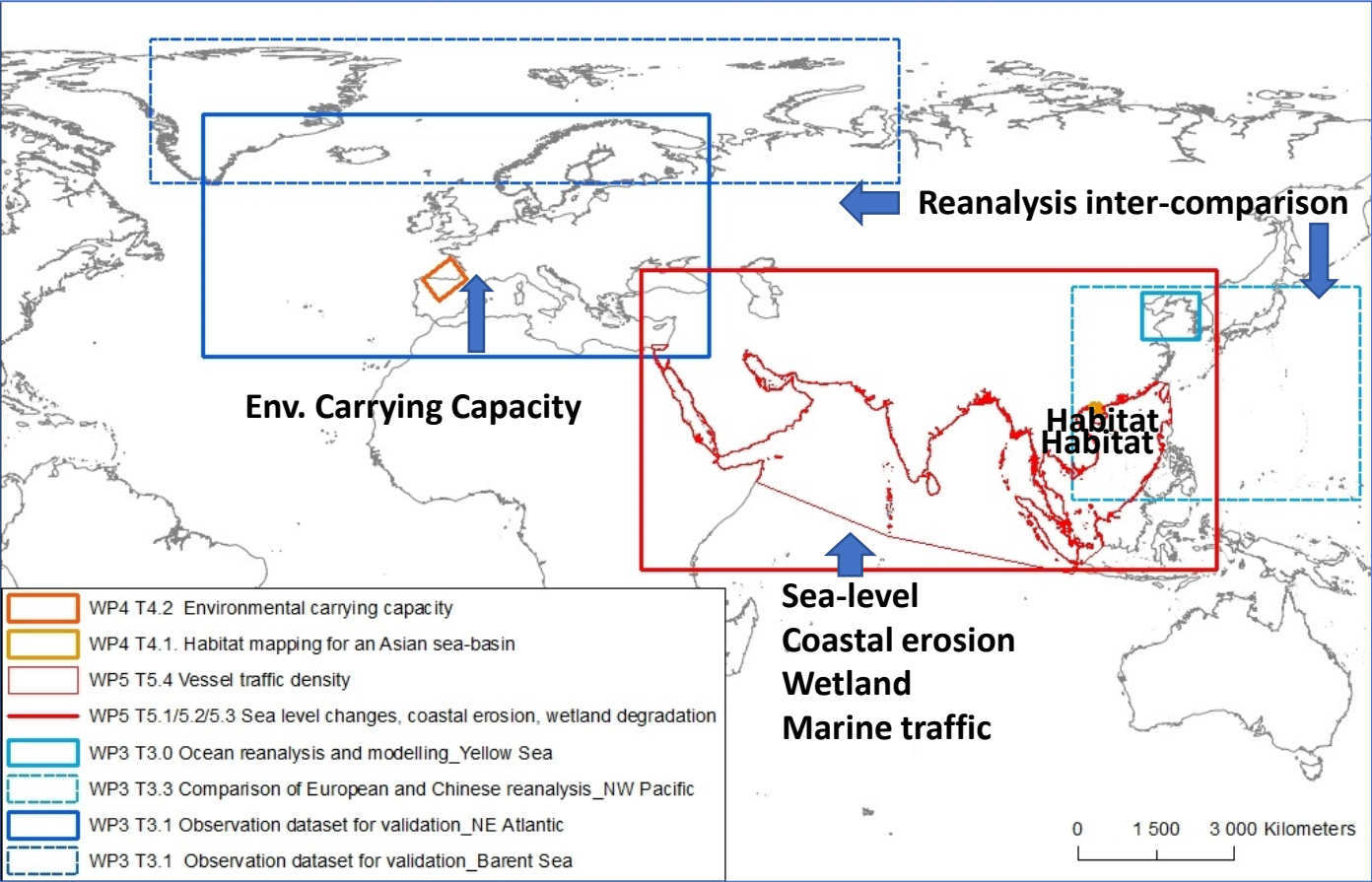
**Work Package 3** - Comparison of European and Chinese **models for regional sea reanalysis**

**Work Package 4** - Comparison of European and Chinese **models for seabed habitat and ecosystem vulnerability**

**Work Package 5** - **Coastal Adaptation**

- Relative sea level changes & Absolute sea level changes
- Coastal erosion
- Wetland degradation
- Vessel traffic density

# Areas of Interest for the EMOD-PACE CEMDnet Collaboration



Reanalysis inter-comparison

Env. Carrying Capacity

Habitat
Habitat

Sea-level
Coastal erosion
Wetland
Marine traffic

| | |
|---|---|
| WP4 T4.2 Environmental carrying capacity | |
| WP4 T4.1. Habitat mapping for an Asian sea-basin | |
| WP5 T5.4 Vessel traffic density | |
| WP5 T5.1/5.2/5.3 Sea level changes, coastal erosion, wetland degradation | |
| WP3 T3.0 Ocean reanalysis and modelling_Yellow Sea | |
| WP3 T3.3 Comparison of European and Chinese reanalysis_NW Pacific | |
| WP3 T3.1 Observation dataset for validation_NE Atlantic | |
| WP3 T3.1 Observation dataset for validation_Barent Sea | |

0     1 500     3 000 Kilometers



September 2019, all ships

# Roadmap for 2022

Inter Services Steering
Committee meeting
advice &
Request for project
extension
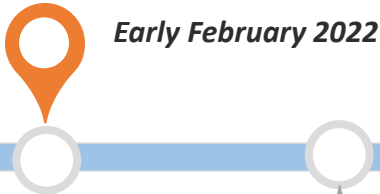
*Early February 2022*

Project Management
Board focus on
1. High level meeting
2. Common Work Plans
3.Dissemination

*March 2022*

Partnership
meeting in
Brussels, *in situ*

*September 2022*

Proposed
consortium in-
situ final meeting
in Brussels
*December 2022*

**M K E G**

*May-December 2022*
*Dedicated Dissemination
& Communication Activities*

**M K E G**

*Mid February 2022*

1. M24 Milestones and Deliverables
2. Interim Report

*May 2022*

Joint High Level
Meeting
EMODPACE-
CEMDnet (remote)

*Nov/Dec 2022*

Final Conference,
China Tianjin, in
situ

# Key messages

**In coming decade, EMODnet by 2030** will:

- Strengthen the **implementation of the Digital Commons** within Europe and beyond;

- **Forge new collaborations worldwide** (at regional and global levels) to move towards a fully interoperability data sharing framework at Ocean Basin level e.g., the All Atlantic Data Space, and across the Global Ocean Data Ecosystem;

- **Expand its contribution to the UN Ocean Decade and its partnership with IOC-UNESCO, IODE and other actors**, including:

  - *A EMODnet UN Ocean Decade Coordination Group;*
  - *EMODnet key recommendations and principles for supporting the Data Vision Under the UN Ocean Decade;*
  - *EMODnet input (and where relevant joint with Copernicus etc) to UN Ocean Decade Actions, Collaborative Centres (e.g., for Ocean Prediction), Webinars (e.g., UN OD Laboratories);*
  - *EMODnet leadership in Ocean Best Practices;*
  - *Enhance EMODnet contribution to demonstrations and training in ocean data and information stewardship;*
  - *Alignment and optimized tagging of EMODnet data for UN 2030 Sustainable Development Goals, Essential Ocean Variables etc. And much more!*
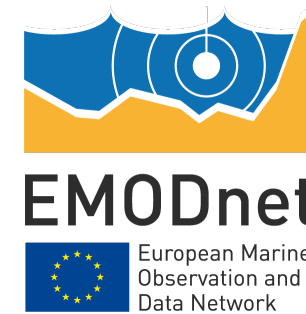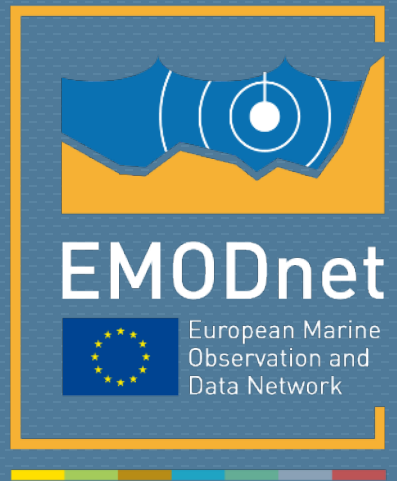


**emodnet.ec.europa.eu**
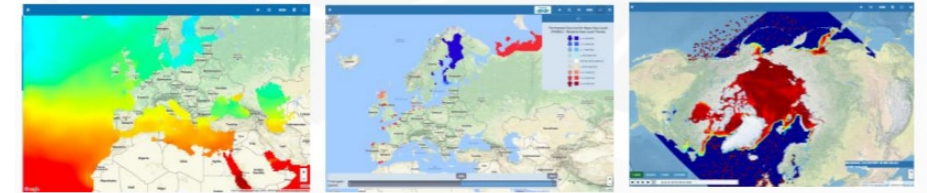
EMODnet

European Marine
Observation and
Data Network

emodnet.ec.europa.eu

*Your gateway to marine data in Europe*

# EMODnet Global Partnerships:

**UN Ocean Decade Data Coordination Group & strategy development (slide for closed session discussion)**

# EMODnet Global Partnerships

## 16th SC Closed Session extra slides

## Agenda Item 17

- **UN Ocean Decade Data Coordination Group** & **EMODnet 4 UN Ocean Decade Coordination Group:** Operational discussion on Terms of Reference, membership and roles, activities (Secretariat, ALL) – 15'

- **UN Ocean Conference side event** (Secretariat, ALL) - 10'