



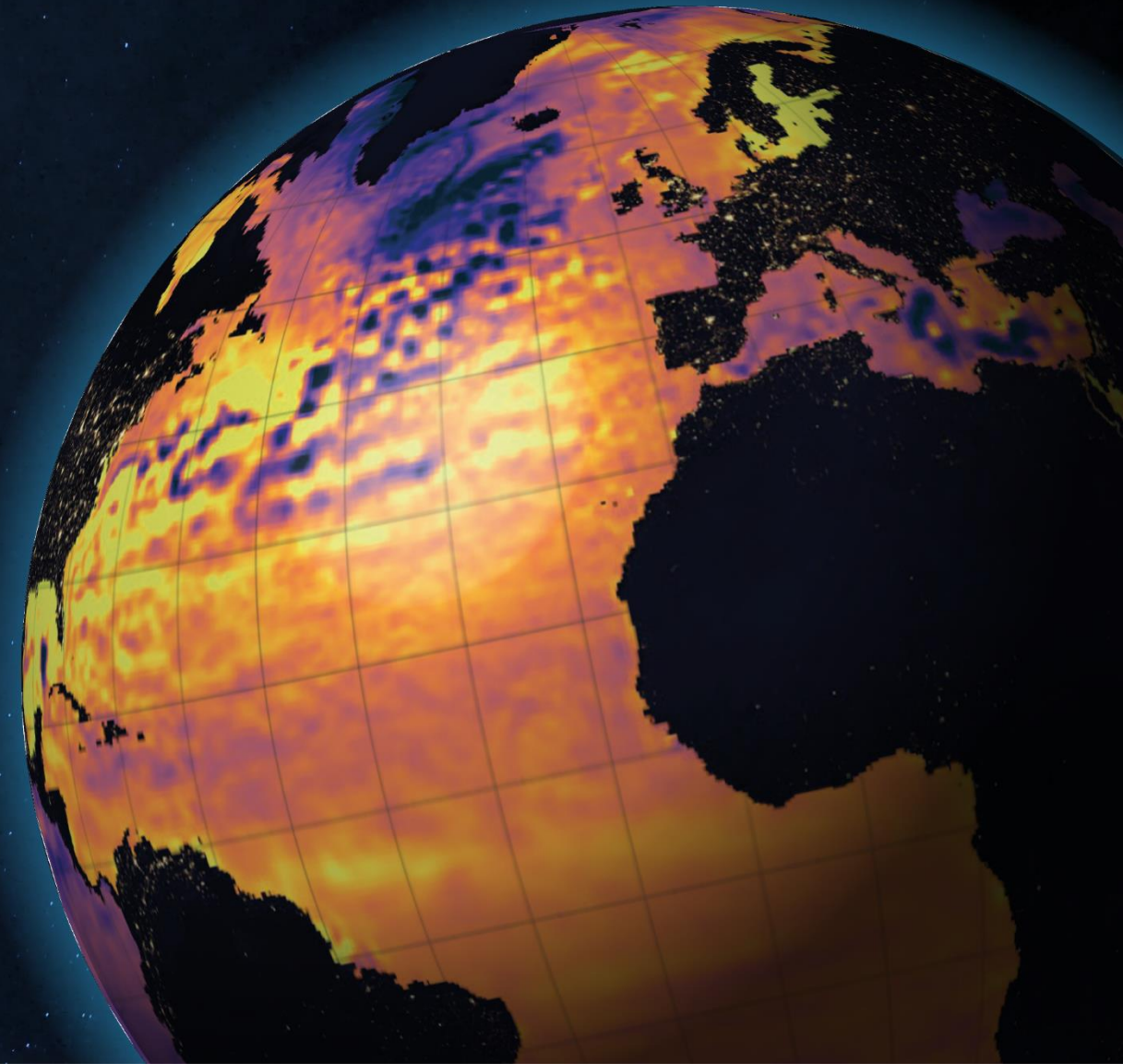
Brest-Plouzané, France

17-20 June 2025

Coastal Ocean and Shelf Seas Task Team - International Coordination Meeting (COSS-TT ICM)

Breakout Session

J Staneva A. Kurapov



Agenda

I. Procedure

II. Stations

III. Persons

COSS-TT Working Groups – Brainstorming Format for Future Developments

Each participant will rotate through **three Working Groups**, engaging in **brainstorming-style discussions** on future directions in coastal ocean forecasting and observing.

- **Moderators/Rapporteurs remain fixed at each group.**
- **Participants will be split spontaneously using a simple counting method (e.g., 1–2–3 rotation).**
- **Early-career scientists are encouraged to speak first at each group.**

WG1 – Integrated Observation– Modeling Frameworks

Main Question:

What are the key innovations and synergies needed to advance next-generation observation–modeling systems for coastal zones?

- • Prompts:
 - • • What observational data are most critical for high-resolution coupled models?
 - • • How can we better align observations and model design?
 - • • What partnerships can support bridging observational gaps?

WG2 – AI, Data Assimilation & Digital Twins

Main Question:

How can AI/ML and data assimilation enhance adaptive, resilient coastal forecasting systems, contributing to Digital Twins?

- • Prompts:
- • • What hybrid DA/AI or physics-informed approaches are most promising?
- • • What are the main barriers (data, skills, compute resources)?
- • • How to ensure transparency and uncertainty quantification in AI-enhanced systems?

WG3 – Designing Coastal Services for Societal Transformation

Main Question:

- What service concepts, engagement models, or co-design strategies should drive future coastal forecasting systems ?
- • Prompts:
 - • • How can communication with stakeholders and ocean literacy be improved?
 - • • What use cases (e.g., adaptation, coastal risks) should guide service evolution?
 - • • What role can citizen science and participatory approaches play?



Masters of the sessions
Joanna/Alex

**Convener: Guillaume (logistics,
managements)**

Moderators

WG1: Huijie/Bruno

WG2: Jianping/Mauro

WG3: Villy/Isabel/Tomasz



Discussions aim to identify:

future developments

research needs

collaborative opportunities

**that support innovation in
coastal ocean services.**



Thank you!