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Future priorities: perspectives from the IOC

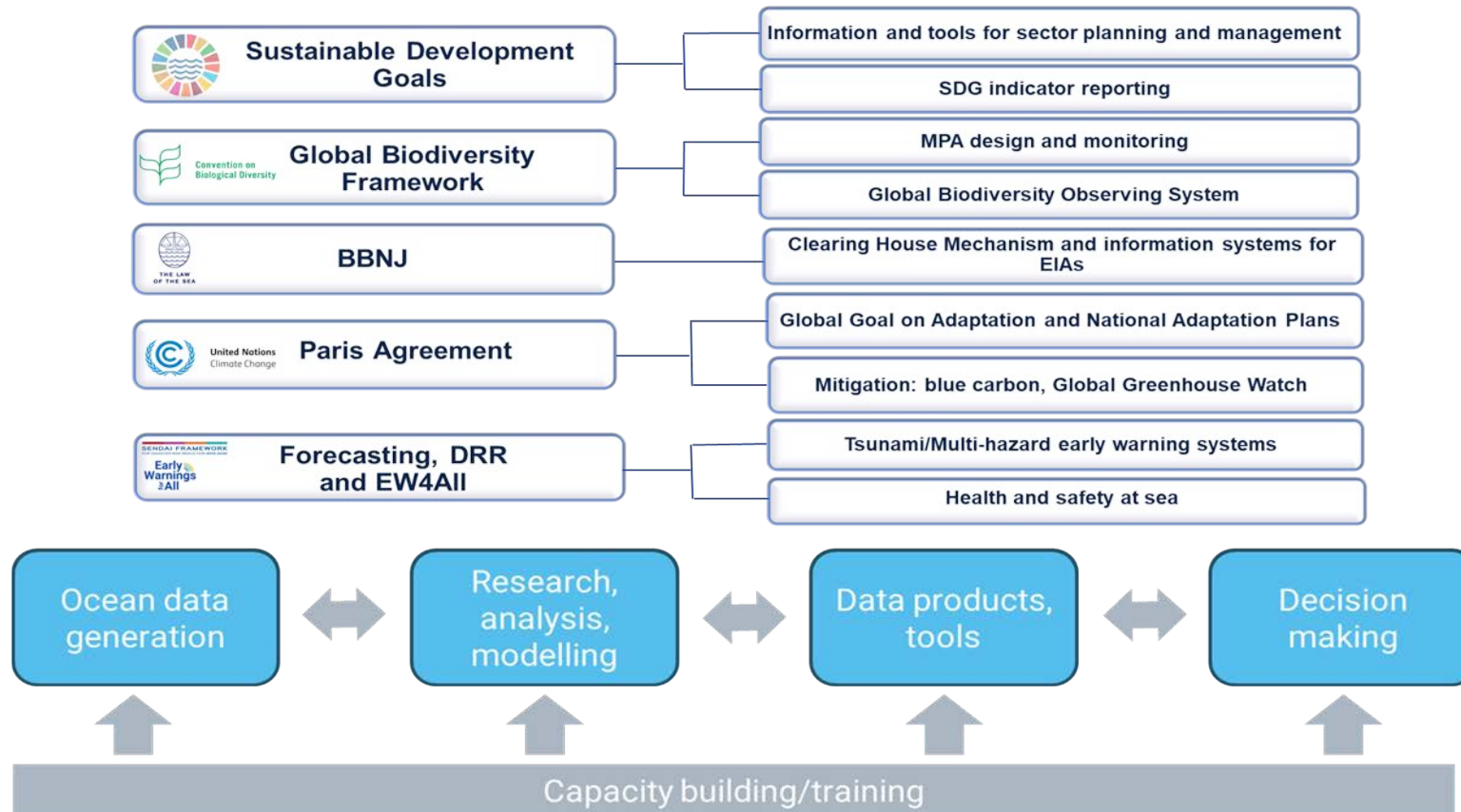
Karen Evans Ocean Science Section

Context for identifying priorities



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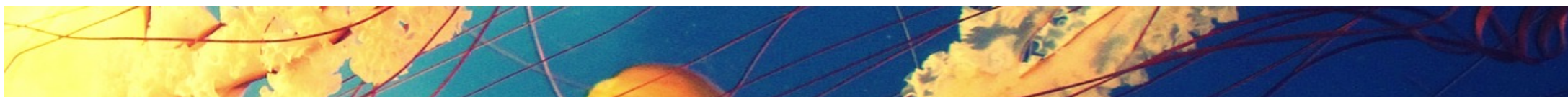
IOC priorities of relevance: strengthening partnerships



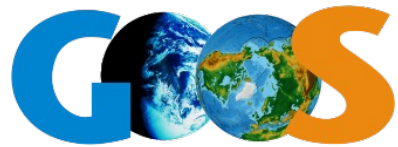
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- 1. Ocean observations**
 - facilitating data sharing and exchange
 - gaps and priorities
- 2. Scientific assessments**
 - producing information on status and trends for informing decisions
- 3. Expanding and sharing capacity**
 - observing
 - meeting international obligations
- 4. Products and resources for use by Member States**
 - understanding, mitigation of impacts
 - sustainable decision making
 - building resilience



1. Observations



Defining and responding to observing system needs

Standards and best practices

Data management and exchange

Metrics/Indicators

Capacity Development



Target
14.3

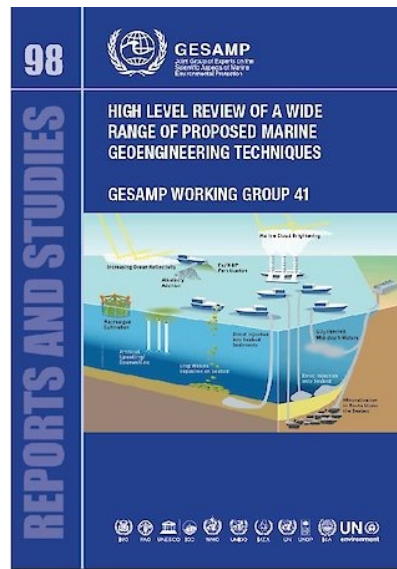
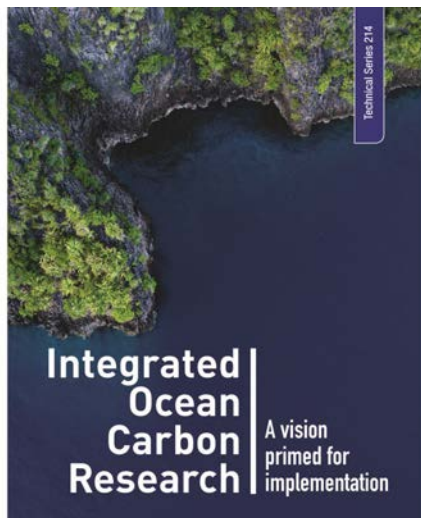
Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels

2. Scientific assessments



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Provision of metrics/indicators

Contributing expertise/information

Responding to gaps and priorities

Capacity sharing/development



2026: three storylines –
Ocean warming
Climate modelling
SLR







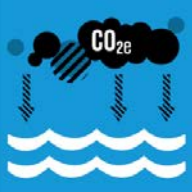



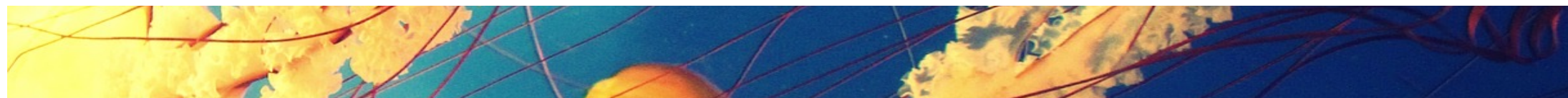
3. Expanding and sharing capacity



IOC Traineeships

Summer schools

 <p>Scientific Knowledge and Research Course topics include Research data management, OBIS, HAB</p>	 <p>Sustainable Use of Marine Resources Course topics include Marine Biodiversity Data Management</p>	 <p>Marine Spatial Planning Course topics include Marine spatial planning, GIS applications for ICZM.</p>	 <p>Marine and Coastal Ecosystems Course topics include Marine GIS applications, Coastal mapping & monitoring.</p>
 <p>Disaster Risk Reduction Course topics include Tsunami awareness, Storm surge forecasting.</p>	 <p>Implement and Enforce International Sea Law Course topics include Marine Scientific Research under the UNCLOS.</p>	 <p>Ocean Acidification Course topics include Impacts of ocean acidification.</p>	 <p>Marine Pollution Course topics include Prevention and reduction of marine pollution.</p>



4. Science-based tools and products

Science/Research to action

Data-based platforms for decision making

- Identification of hypoxic zones

Early warning systems for community resilience

- Harmful algal blooms
- Marine heatwaves
- Coastal inundation

Support for submission of National Determined Contributions

- Carbon cycling/fluxes - accounting for blue carbon



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GO₂NE

Global Ocean Oxygen NETwork



WCRP white paper

Delivery of actionable information that is usable and used through co-design, co-production, collaboration and partnerships.

Training and development priorities and needs

Digital infrastructure

Regional equity and justice

Responding to the needs of co-sponsor stakeholders

- Consultation
- Partnerships
- Collaborations

