



# Ocean Data & Information Sharing Efforts

## Regional Capacity Development (OIH, CMA, SPINCAM)



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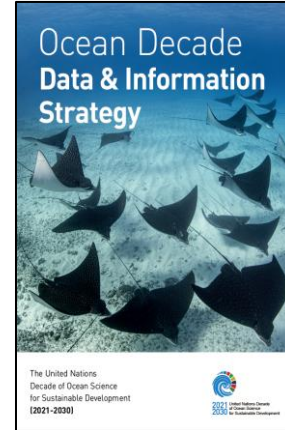
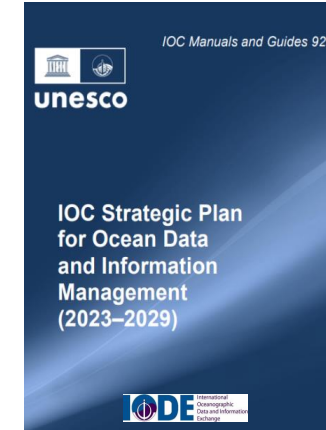


2021 United Nations Decade  
2030 of Ocean Science  
for Sustainable Development

*“Our knowledge of the ocean remains fragmented, but prospects of a more comprehensive and accurate understanding have never been more promising.*

*Digital twins, once created to operate independently, are increasingly designed to work together, or to interoperate” Tom Redd (<https://www.huboccean.earth/blog/interoperability>).*

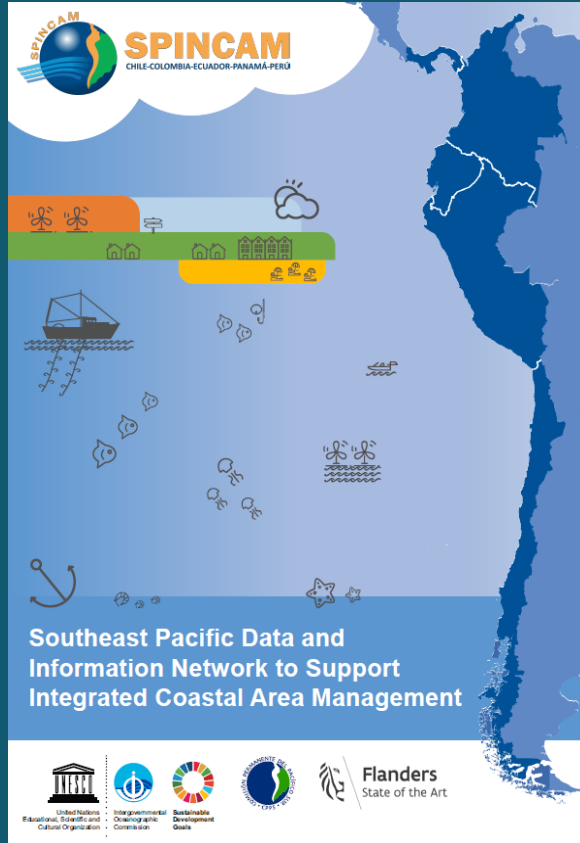
1. Interoperable, quality-controlled data on a diverse range of variables: (i) generated according to scientifically and operationally sound methods; and (ii) persistently archived in well-documented, globally applicable standards and formats;
2. Timely dissemination of data on a diverse range of variables (generated from observations and model outputs) both in real-time and delayed modes depending on the needs of user groups and their technical capabilities ("on demand" as well as automatically scheduled);
3. Easy discovery and access to data and information about a diverse range of variables and derived products (including forecasts, alerts and warnings) in a way that is user friendly for a wide variety of users.



**Capacity Development Strategy 2023 - 2030**



Bringing the voice of ECOPs into the ongoing global dialogue on Digital Twins of the Ocean is crucial, as **future Ocean Leaders**.



Southeast Pacific data and information network (Panama, Colombia, Ecuador, Peru and Chile):

- ✓ Improve the transboundary coordination and cooperation for coastal and marine management and planning.
- ✓ Establishing an Integrated Coastal Area Management (ICAM) indicator framework at national and regional level focused on the state of coasts and ocean & socio-economic conditions, to provide stakeholders with information and atlases.
- ✓ Regional strategic recommendations on MSP, monitoring systems and decision support tools;
- ✓ Reduction of national technical disparities on capacity development;
- ✓ Improved communication and participatory processes.



# Share lessons learnt and best practices on regional atlas implementation, data management and indicators



## Caribbean Marine Atlas

Works on the access to spatial data and information by creating an online digital platform to ICAM and Ecosystem-based Management (EbM) for the Caribbean Large Marine Ecosystem.

The atlas contain is represented by **879** layers, a collection of base maps, a catalog of documents/maps and **10** indicators.

Provide **information for decision makers**.

This experience has been **shared in a south-south cooperation** with African Coastal and Marine Atlas – **ACMA**

<http://www.caribbeanmarineatlas.net>

## ABOUT THE OCEAN INFOHUB PROJECT

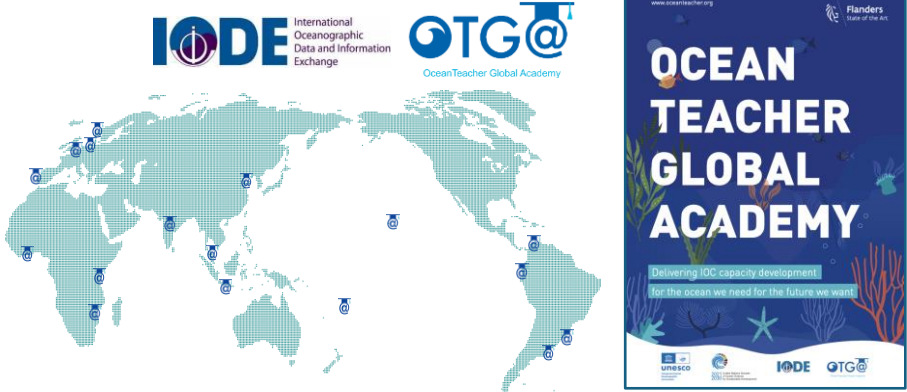
The Ocean InfoHub aims to build a sustainable, interoperable, and inclusive digital ecosystem for all ocean stakeholders. Existing and emerging data systems are linked, with the ultimate goal of coordinating action and capacity to improve access to ocean data and knowledge. The Project is funded by the Government of Flanders, Kingdom of Belgium and implemented by IODE, project office of the IOC of UNESCO. It is a contribution to the OceanData 2030 Programme of the UN Decade of Ocean Science for Sustainable Development.



<https://oceaninfohub.org/>



# INVEMAR Regional Training Centre 2015-2024



**Target audience:** Oceanic data and marine information managers and marine environment researchers with training requirements in data management and/or information management

Countries

39

Courses

54

Topics

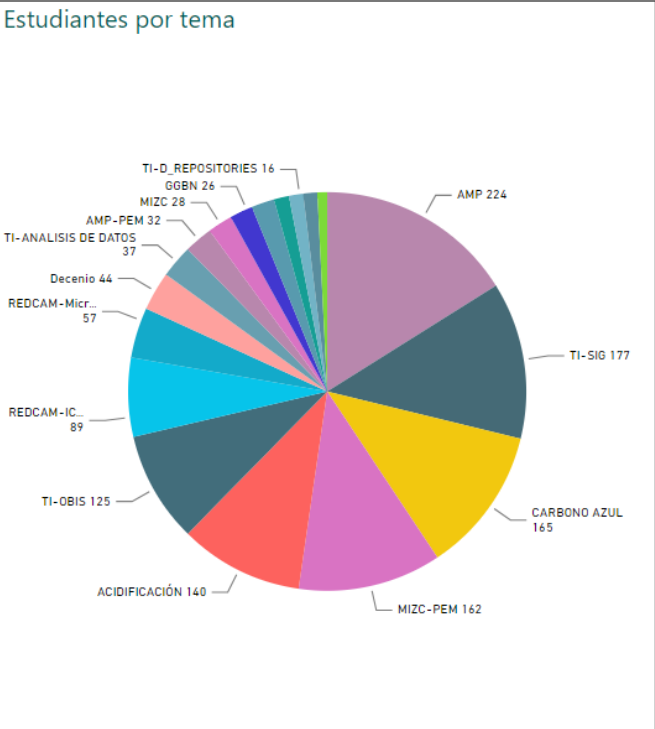
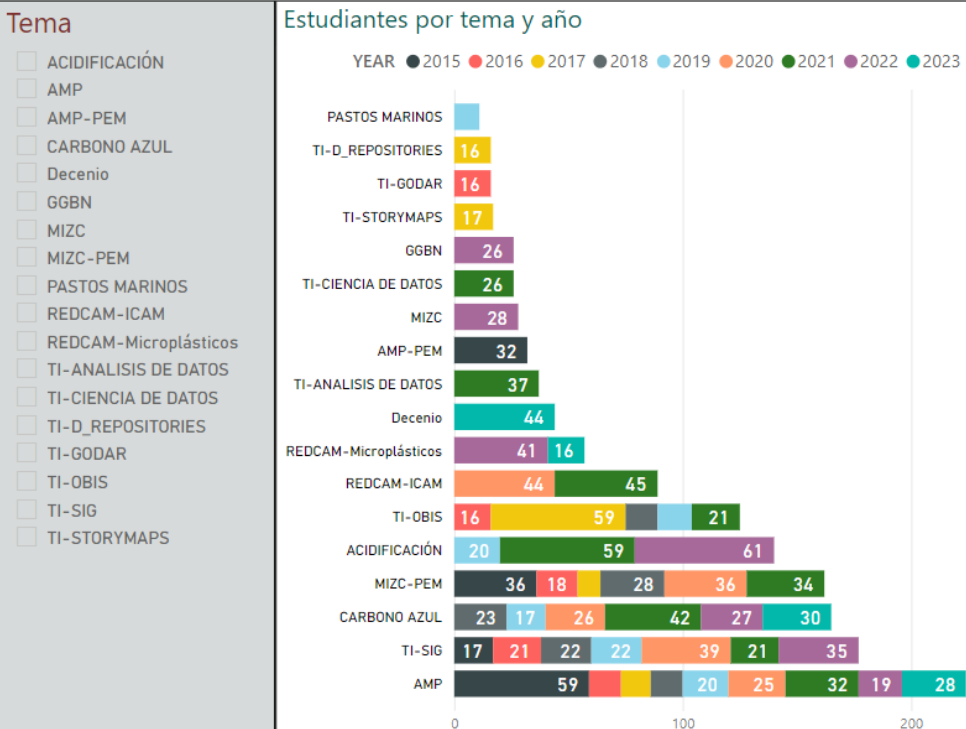
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Participants

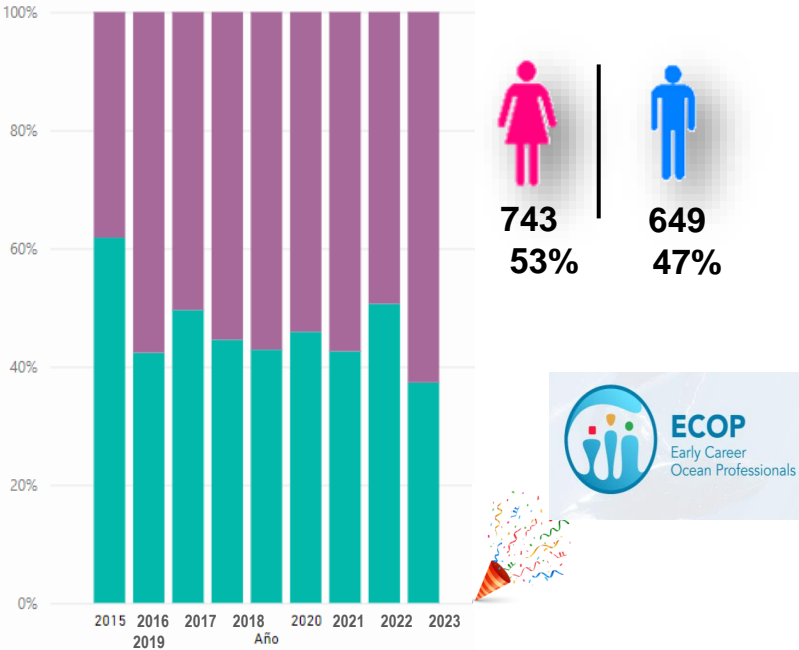
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Delivering capacity development for the Region contribute to digital twins that can be used to monitor, model, and manage ocean and coast and their resources and ecosystems.

Participants by topic /



Participants by gender per year





**Thank You! Merci! Grazie! ¡Gracias! Obrigado!**  
**Takk! Terima kasih! धन्यवाद! Bedankt!**  
**Medaase! 谢谢! Asante! Vinaka! Fa'afetai!**  
**Nouari! شكراً لك! תודה! ধন্যবাদ! Дякую!**  
**Спасибо! Danke! Salamat! ありがとう !**  
**Hvala! 감사합니다! Whakawhetai koe!**