



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

OPST-7

14-16 February, 2023



CoastPredict

with The Global Ocean Observing System

CoastPredict: Observing and Predicting the Global Coastal Ocean

Co-chairs:

Nadia Pinardi, *University of Bologna*

Villy Kourafalou, *University of Miami*

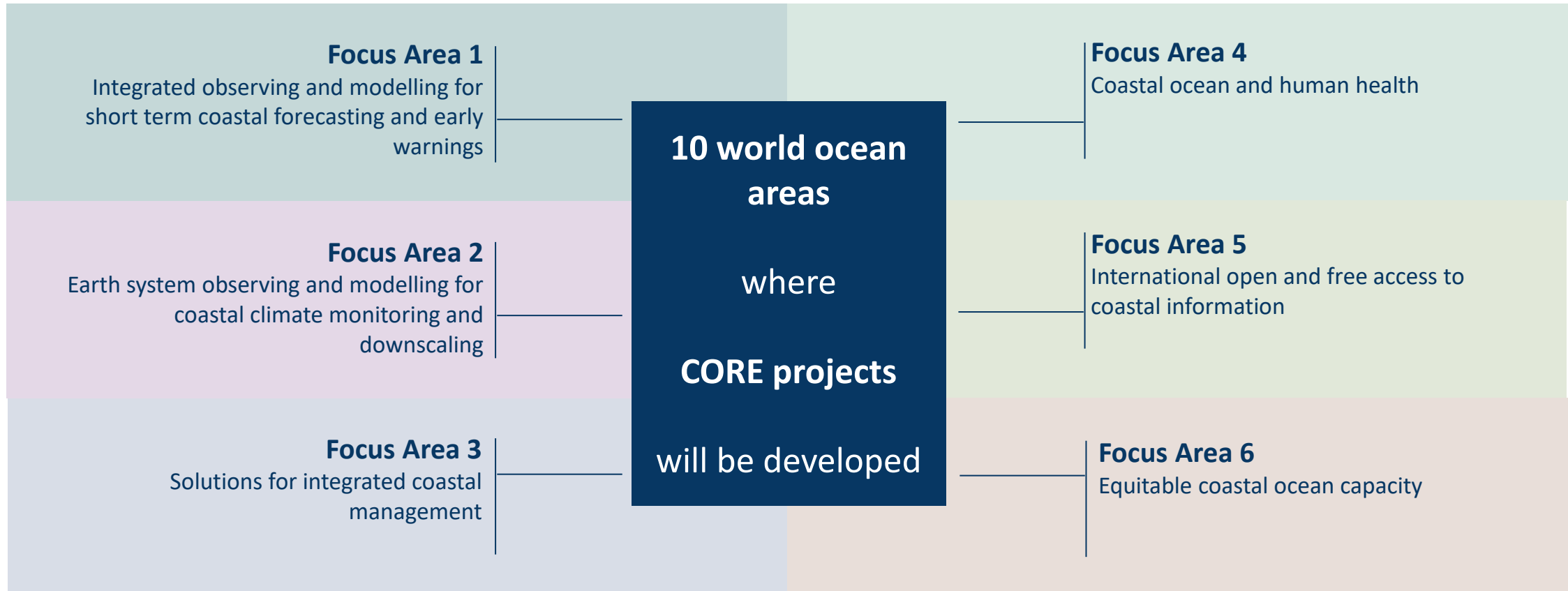
Joaquín Tintoré, *Balearic Islands Coastal Observing & Forecasting System*

GOOS liaison: **Emma Heslop**, *UNESCO-IOC*





CoastPredict strategic planning and groups



- 3 Core projects and 4 affiliated projects already endorsed that plan the strategy for each focus area



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CoastPredict

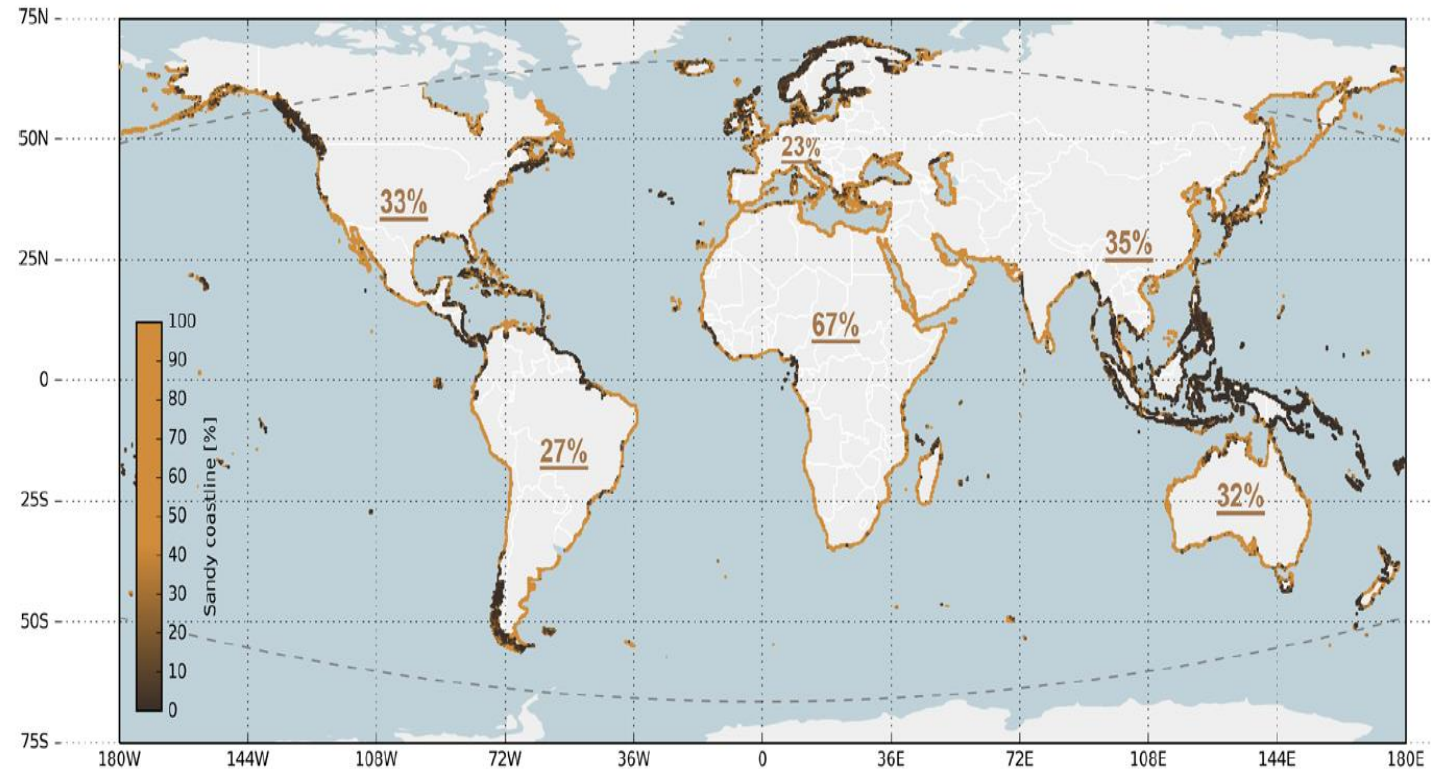
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Update on Recent Developments

CoastPredict annual General Assembly: GlobalCoast action

The Coastal resilience DCC

www.coastpredict.org
info@coastpredict.org



Sandy coastlines from optical satellite images since 1984
Arjen Luijendijk et al., Sc. Rep., 2018

Global Coast: *The Global Coastal Ocean Experiment*

Establish and implement the **CoastPredict Projects** and guidance principles in several world ocean coastal areas to demonstrate and test fit-for-purpose coastal observing and prediction systems for **contrasting and comparing coastal processes**, aiming to the design of innovative products and services for coastal resilience.





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CoastPredict potential contributions to OceanPredict / ForeSea

- ❖ Collaborative actions with COSS-TT and SynObs;
- ❖ Assess the fit-for-purpose of the service for coastal downscaling (*w/ DCC-OP*);
- ❖ Assess the fit-for-use of the global analysis and forecast data for coastal applications (*w/ DCC-OP*);
- ❖ Contribute to the Global Coastal Ocean Value Chain



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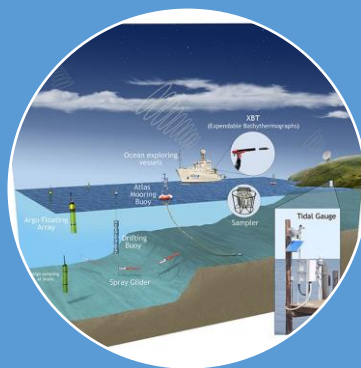


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Global Coast will contribute to the whole Global Coastal Ocean Value Chain

Global and regional observing and prediction Infrastructure



Coastal observation and prediction products/information



Digital Platform for on-demand data analytics and user-oriented transformation



End-user tailored products and decision support systems for coastal resilience



Training and outreach

Global Coast Platforms





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DCC-CR

Coastal Resilience

- Based in Department of Physics and Astronomy, UNIBO
- Funded by Emilia-Romagna Region
- Managed by dedicated personnel:
 - Director
 - Senior Programme Specialist/Chief Scientist
 - Junior Programme Specialist
 - Senior Communication Officer
 - Information System Officer
 - Administrator
- Thematic focus on **Decade Challenge 6: Increase community resilience to ocean hazards**

Ocean Cities Network (OC-NET)

Institut de Ciències del Mar -
CSIC (Spain)

Global Estuaries Monitoring
(GEM)

City University of Hong Kong

Mega-Delta

East China Normal University

