



FOCCUS: advancing ocean prediction with improvements to European coastal monitoring and forecasting

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INTRODUCTION

Forecasting and Observing the Open-to-Coastal Ocean for Copernicus Users



GOALS:

- Improve & advance the coastal dimension of CMEMS¹
- Develop novel, advanced, & seamless coastal monitoring & forecasting systems
- Address societal needs & advance marine knowledge

OBSERVATIONS

- High-resolution coastal data via:
 - Multi-sensor satellite fusion
 - Al-enhanced image analysis
 - Fused multi-platform data
 - Coastal and river inventory
- Improved coastal monitoring and decision-making



HYDROLOGY

- Pan-European integrated land-ocean continuum modeling systems
- Improved freshwater inflows at a continental scale
- Improved estuary box systems



7 key pilot areas

COASTAL SYSTEMS



IMPACT

Address specific **Environmental and Societal Challenges**, including:

- Coastal erosion
- Pollution mapping
- Harmful algal blooms
- Co-use of offshore resources
- Mediterranean heat waves
- Ecosystem restoration
- Storm surge
- Extreme waves



¹ Copernicus Marine Environment and Monitoring Service



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