



Let's talk about sea level rise

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📍 Inspire Area – European Digital Ocean Pavilion

🌐 United Nations Ocean Conference 2025

Abstract

From sea level monitoring to coastal flood risk warning

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Among the several effects of climate change, the rise of oceans level and the occurrence of extreme meteorological events will inevitably result in more and more coastal flooding episodes, affecting temporarily or permanently the low-lying coastal zones.

Identify areas potentially exposed to coastal flood hazards due to extreme events and mean sea level rise is essential for prioritizing and deciding where to deploy local actions like in-depth risk impact studies, engineering expertise, investments, financial support, insurance solutions, urban planning, etc.

Satellite altimetry provides sea level measurements continuously since 1993 all over the globe. This long-term monitoring allows the scientific community to estimate sea level rise at global and regional scales.

To assess its impact on coastal vulnerable regions, and support awareness and more efficiency in local collaboration with practitioners and other stakeholders, this operational sea level monitoring needs to be translated into actionable early warning mapping tools.

Such tools for both short-term and a long-term coastal flood hazards and risks assessment will be introduced.

