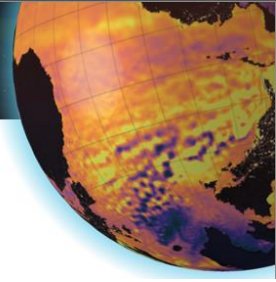


CoastPredict Program: transforming observing and predicting with the GlobalCoast initiative

Since CoastPredict's inception in 2020, the programme members have shared a common ambition—to turn the vision of an integrated observing and prediction system for the global coastal ocean into a tangible reality for coastal communities and researchers worldwide. In July 2023, the CoastPredict programme launched its implementation framework 'GlobalCoast'. This transformative initiative is set to bring CoastPredict's objectives to life, channeling user-driven ingenuity into solutions that will redefine the future of coastal resilience. GlobalCoast aims to demonstrate the value of an integrated and fit-for-purpose coastal observing and prediction system that delivers innovative products and services for coastal resilience in collaboration with local stakeholders. GlobalCoast's ultimate goal is to create globally replicable solutions, standards, and applications that enhance coastal resilience. More than 125 GlobalCoast Pilot Sites were submitted from world-wide partners, highlighting existing coastal gaps in stressors and vulnerabilities, priority impact areas for innovation and research, and specific needs for coastal resilience within the UN Ocean Decade community. This concept was formulated from the realization that we can accelerate innovation for coastal resilience using testbeds in different coastal regions that have similarities and differences in characteristics. This innovation must be based on seamless integration from open ocean to coasts and estuaries, encompassing both natural and built environments (cities, ports). The expected outcome is a closer collaboration between different regions of the world, with methods and solutions that are developed globally and implemented locally, co-designed with appropriate stakeholders. The envisioned platform will allow the acceleration of existing initiatives for coastal resilience, while developing globally relocatable solutions. The GlobalCoast platform provides partners, regardless of the current status of their resources, the opportunity to collaborate with international leading experts and benefit from cutting-edge science and technological advances in observing, modeling, AI and end-user product development. The CoastPredict/GlobalCoast community focuses on transformational science and technology and a shared vision creates a remarkable international network devoted to exchanging ideas and advancing science. An important aspect of resource sharing under GlobalCoast involves creating an innovative digital infrastructure where data and information collected from different Pilot Sites are made available and accessible



to everyone, not just the community of a specific test site. This will facilitate synergy between different Pilot Sites and accelerate progress in different regions, enabling the intercomparison and sharing of new understanding, data and approaches to coastal resilience across the world's coastal marine and urban environments. Find further information on the GlobalCoast webpage.

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