PEACE: Predicting ocEAn Cascading Extremes

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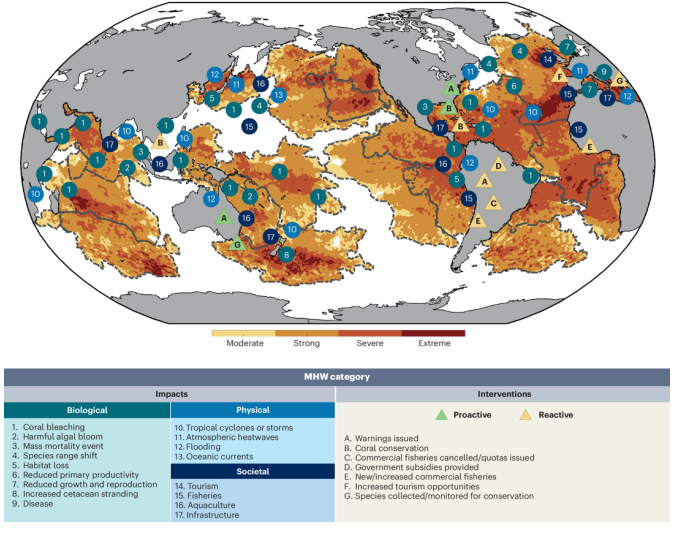
Topic: HORIZON-CL5-2027-01-D1-07 Advancing understanding, modelling and prediction of extreme events in a changing climate

Project description: Building on multiple Earth system model predictions with an interactive carbon cycle together with observational evidences and AI/ML, we aim to enhance our understanding of the mechanisms driving ocean extreme events, and establish a seamless prediction and early warning system for ocean compound extremes, and cascading ecosystem risks.

Current consortium: Earth system modeling, ecosystem and fisheries modeling, Earth observation, AI and machine learning

Profile of the partners sought: Impact assessment; environmental services; dissemination, exploitation and communication

Impacts of Marine Heat Waves 2023-2024



from Smith et al. 2025