



2021 United Nations Decade  
of Ocean Science  
2030 for Sustainable Development

# Sustainability, Predictability and Resilience of Marine Ecosystems (SUPREME) Decade Programme



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## Lead Institution

**US National Oceanic and Atmospheric Administration (NOAA)**

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## KEY PARTNERS

- International Council for the Exploration of the Sea (ICES)
- North Pacific Marine Science Organization (PICES)

## DECADE CHALLENGES ADDRESSED

**CHALLENGE 2:** Protect and restore ecosystems and biodiversity

**CHALLENGE 3:** Sustainably feed the global population

**CHALLENGE 4:** Develop a sustainable and equitable ocean economy

**CHALLENGE 5:** Unlock ocean-based solutions to climate change

**CHALLENGE 9:** Skills, knowledge and technology for all

**CHALLENGE 10:** Change humanity's relationship with the ocean

## OCEAN BASINS

North Atlantic	Indian
South Atlantic	Arctic
North Pacific	Southern
South Pacific	

## Summary

Changing oceans are significantly impacting valuable marine species and the many people, communities, and economies that depend upon them. Warming oceans, rising seas, decreasing ocean ice, increasing ocean acidification, and extreme events (e.g., marine heat waves) are affecting the distribution and abundance of marine species in many regions. These changes are expected to increase with continued climate change and there is much at risk. The SUPREME Decade Programme seeks to globally implement an infrastructure to support robust climate- and ocean-related forecasts, predictions, and projections to guide marine ecosystem management and adaptation strategies that reduce risks and increase resilience of marine/coastal resources and the people who depend on them.

Duration: 01/01/2021 - 31/12/2030

## Priority Activities (first 2 years)

- Develop program governance structure, international steering committee and implementation plan.
- Establish regional teams to fuel innovation and co-development of applications and fisheries management tools.
- Hold workshop on strategic planning and capacity sharing to develop common modeling frameworks and advance regional modeling systems.
- Hold workshop to facilitate stakeholder engagement.
- Participate in UNDOS Communities of Practice and Decade Laboratories.

***"SUPREME aims to facilitate capacity sharing in marine ecosystem predictability to effectively manage and sustain resilient marine ecosystems."***

***SUPREME Steering Committee***