



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

Observing Air-Sea Interactions Strategy (OASIS)

Decade Programme



Recovery of the NOAA Ocean Climate Station Papa mooring © Keith Rønneholm

Lead Institution

SCOR Working Group #162 for developing OASIS

Contact

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KEY PARTNERS

- Global Ocean Observing System (GOOS)
- Capacity Development through Surface Ocean and Lower Atmosphere Study (SOLAS) Summer Schools, Ocean Corp and EquiSea
- OceanPredict and Marine Life 2030
- Consortium for Ocean Leadership

DECADE CHALLENGES ADDRESSED

CHALLENGE 7: Expand the Global Ocean Observing System

CHALLENGE 8: Create a digital representation of the Ocean

CHALLENGE 9: Skills, knowledge and technology for all

OCEAN BASINS

North Atlantic	Indian
South Atlantic	Arctic
North Pacific	Southern
South Pacific	



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Summary

Air-sea exchanges of energy, moisture, and gases drive and modulate the Earth's weather and climate, influencing life, including our own. Air-sea interactions affect the distribution of carbon dioxide between the atmosphere and ocean, how seawater flows and winds blow, and how pollutants floating on the ocean surface move – information critical to policymakers, industry, and civil society. The Observing Air-Sea Interactions Strategy (OASIS) Programme brings together the vast community of researchers, stakeholders, and experts on air-sea interactions to harmonize observational strategies and develop a practical, integrated approach to observing air-sea interactions through capacity development, and leveraging of multi-disciplinary activities. OASIS will work with partners around the world to build a truly global air-sea interactions observing system that will provide transformative observational-based knowledge to fundamentally improve weather, climate, and ocean predictions, and promote healthy oceans, the blue economy, and sustainable food and energy.

Duration: 01/11/2021 - 31/12/2030

Priority Activities (first 2 years)

OASIS Priority Activities are organized within 5 Theme Teams:

- 1) Observing Network Design and Model Improvement
- 2) Capacity and Partnership Building
- 3) Ocean Shots and UN Decade
- 4) Best Practices and Interoperability Experiments
- 5) Findable-Accessible-Interoperable-and Reusable (FAIR) Data, Models & OASIS Products

To join one or more of these Theme Teams, please go to airseaobs.org/get-involved

"Earth is a water world and through the OASIS Programme we will work together to better understand, observe and predict how the ocean and atmosphere interact. OASIS will not only improve forecasts of weather and climate fueled by ocean heat and moisture, but also make it possible to track how much carbon dioxide is absorbed by the oceans."

Dr. Meghan Cronin, Oceanographer at NOAA and Co-chair of the Scientific Committee on Ocean Research (SCOR) Working Group #162 for developing an OASIS