OceanPredict.US
Coalescing the Nation's Operational Oceanography Enterprise

Eric Chassignet[1], Eric Bayler[2], & Paul DiGiacomo[2]
1: Florida State University
2: NOAA/NESDIS Center for Satellite Applications & Research (STAR)
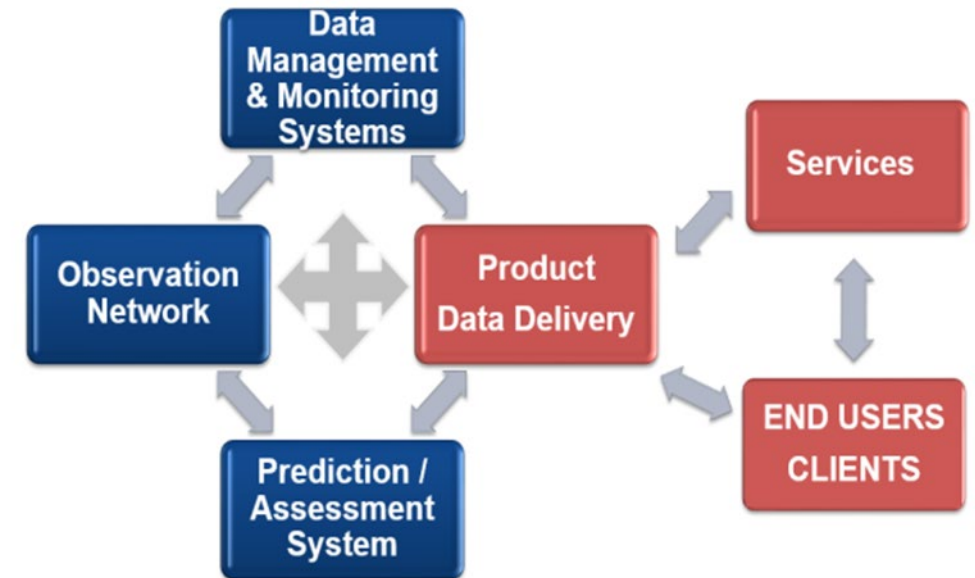
Overview

Gulf of Mexico; CDR Jeremy Adams, NOAA Corp

VISION: Establish a framework for the U.S. operational oceanography enterprise, enabling the earth system science value chain from observation to decision-making and societal benefit.

TRANSFORMATIVE IMPACT: OceanPredict.US aims coalesce the nation's operational oceanography components into a coherent national framework to integrate activities, inform decision-making, and provide greater return on ocean-observing investments.

SOCIETAL BENEFIT: OceanPredict.US directly supports the Nation's contributions to addressing the United Nation's Sustainable Development Goals and provides the foundation for the Nation's Blue Economy and Blue Environment sectors.

Ocean information value chain for Operational Oceanography
OceanPredict Strategic Plan 2021-2030

Objectives

- **Coalesce** existing U.S. operational oceanography components into a coherent national enterprise

- **Establish** a transformative framework for sustained interdisciplinary operations, comparable to the Nation's weather enterprise, spanning the blue (physical), white (sea ice), and green (ecological) ocean components.

- **Enable** informed decision-making for societal benefit, greater return on ocean-related investments, and integration of activities contributing to the ocean observation value chain, spanning observations, analyses, predictions, products, and services.

- **Evolve** beyond the existing collection of ocean-related research activities and operational endeavors to a sufficient network of infrastructure and robust sustained operations at national, regional, and local levels.

- **Provide** a national operational oceanography enterprise locus for transitioning governmental, non-governmental, and private sector research to operations for value-added products and services supporting informed decision-making.

Catalyst

❖ OceanPredict.US aims to serve as a catalyst for evolving the Nation's oceanographic capabilities and capacities into a coalesced operational oceanography enterprise, enabling national, regional, and local efforts to address the needed ocean technologies, services, and knowledge.

❖ OceanPredict.US aims to establish connectivity between national, regional, and local efforts, spanning governmental, academic, and private sectors, through better and more partnerships and establishing new structures to address gaps.

❖ OceanPredict.US encompasses:

- Operational oceanography stakeholders and users

- Members representing U.S. entities participating in the international OceanPredict collaboration network

- Interested public and private entities and individuals

Drivers

❖ National need for a clear structure of roles and responsibilities within a national operational oceanography enterprise

❖ National need for increased operational oceanography capacity for informed decision-making

❖ National need for sustained and robust operational oceanography products and services

❖ National need to leverage national, regional, local resources, spanning government, non-government, private, and academic sectors, to enable a coherent operational oceanography enterprise

❖ Need for a coherent vision for contributions of the Nation's operational oceanography enterprise to global collaborations and efforts, such as those enunciated in the UN Decade of Ocean Science for Sustainable Development

GLOBAL OCEAN OBSERVING SYSTEM

Courtesy of GOOS

Capacity Building

❖ OceanPredict.US efforts build capacity through developing a coherent national operational oceanography sector that augments/enhances domestic and international Blue Economy sectors, as well as efforts supporting ocean and coastal safety and sustainability.

❖ A national operational oceanography enterprise will provide foci and non-academic operational careers in routine implementation and application of science, creating and broadening opportunities for enhanced representation in the oceanography work force and ocean-related technical fields.

❖ OceanPredict.US aims to develop global capacity through organizational coherency and infrastructure supporting existing Blue Economy and Blue Planet sectors, and is extensible to future foci and capabilities.

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Contact

https://oceanpredict.us

info@oceanpredict.us

The Science We Need for the Ocean We Want

The United Nations
Decade of Ocean Science
for Sustainable Development
(2021-2030)

2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development