

An Initial Review of 100 U.S. Ocean Decade Actions- Highlighting Projects with Relevance to the Hydrographic Community

INFORMATIONAL

100 Actions for the Ocean Decade are listed in an [airtable](#).¹ In this exercise, NOAA staff reviewed the actions and identified those that were directly or possibly indirectly related to hydrography. This summary is for awareness purposes and potential connections that could be explored. Not all actions contained summaries, as indicated below. Lead agency is noted. The number corresponds to the entry tracking number in the airtable.

This summary also notes the IGIF-Hydro action which is independent of the airtable.

IGIF-Hydro

The goal of the UN WG-MGI produced Operational Framework for Integrated Marine Geospatial Information (IGIF-H) is the efficient use of geospatial information by all countries to facilitate decision-making in support of sustainable oceans and seas, coastal zones, deltas and tributaries, and inland water bodies and waterways.

Lead Agencies: United Nations Working Group on Marine Geospatial Information (UNWG-MGI), UN Committee of Experts on Global Geospatial Information Management (UN-GGIM) - United States of America (USA) (including NOAA)

Endorsement Date: January 2021

(11) Building a Great Lakes Basemap to Serve the Blue Economy

The Great Lakes are an invaluable national and international natural resource, upon which millions rely on for drinking water, employment, and recreation. Despite this, one of the most fundamental datasets -- a complete bathymetric lakebed map-- has not been coherently and deliberately collected. Our ocean-shot project will create and deliver a high-resolution digital representation of the Great Lakes lakebed for the benefit of everyone, from scientists to decision-makers to the general public. This project with leverage technical innovations with emerging methodologies and can serve as a testbed of technologies and data processing techniques for the global Seabed 2030 effort.

Endorsement date: June 2021

¹ <https://airtable.com/shrSh0fbfd1cRAUBu/tblcl5LRCuoao0D7g>

Lead Agency: non-USG

(15) Coast Predict

Digital twin

Endorsement date: June 2021

Lead agency: Non USG but with NOAA involvement

(17) Committee on Earth Observation Satellites – Coastal Observations, Applications, Services, and Tools

No description

Endorsement date: June 2021

Lead Agency: NOAA

(26) Digital Twin of the Ocean

No description

Endorsement Date: June 2021

Lead Agency: Non USG but with NOAA involvement

(27) Early Career Ocean Professionals

No description

Endorsement date: June 2021

Lead Agency: non USG

(57) Navigating the New Arctic

No description

Endorsement date: June 2021

Lead Agency: National Science Foundation

(74) Promote Seabed 2030 and Ocean Mapping

No description

Endorsement date: June 2021

Lead Agency: NOAA

(84) SMART Ocean-SMART Industries (SO-SI): Science/Industry Partnerships for Data Collection and Sharing

No description

Endorsement date: October 2021

Lead Agency: non USG

(89) Sustained Data for a Changing Ocean

The Ocean Observatories Initiative (OOI) provides sustained ocean observations and data delivery that researchers around the globe are using to identify, quantify, and ultimately assess ongoing changes in the global ocean. Commissioned in 2016, OOI is a long-term project to collect ocean data for 25 years or more. This longevity makes it possible to measure and observe short-lived episodic events and longer-term changes in the ocean. OOI currently consists of five instrumented arrays that continually measure more than 200 different parameters. The arrays gather physical, chemical, geological, and biological data from the air-sea interface to the seafloor. These data are freely available to anyone with an Internet connection. The arrays also function as test beds for new sensor technology to help advance the state of the art in ocean observation. Endorsing OOI as a UN Ocean Decade Program will ensure these data.

Endorsement date: June 2022

Lead Agency: non USG

(90) The Open Access to GTS Project

The Open Access to GTS (Open-GTS) project aims to ease the exchange of marine data and increase the amount of data available for real-time forecasts. The ability of Open-GTS to accept multiple data format types is significant and promising. The application of the Open-GTS workflow will increase the exchange of marine data while retaining data quality and integrity, and its framework will increase transparency and encourage participation from other marine interests, including the commercial shipping industry.

Endorsement date: March 2023

Lead Agency: NOAA

(100) World Ocean Database Program

No description

Endorsement date: June 2021

Lead Agency: NOAA

The following are under consideration and have not been formally endorsed
as of March 2023

**(2) US Tsunami Program Contributions in Support of IOC Tsunami Ocean Decade Programme: Part 1
(Science and Technology)**

Currently under consideration

(8) An Uncrewed Surface Vehicle (USV) network for the Global Ocean Observing System (GOOS)

Currently under consideration

**(18) Concurrent access to historical and near-real time data through the World Ocean Database Cloud
(WODc) and OpenGTS**

Currently under consideration

(83) Seascape Alaska, a regional coastal and ocean mapping campaign

Currently under consideration

**(97) US Tsunami Program Contributions in Support of IOC Tsunami Ocean Decade Programme: Part 2
(Preparedness and Mitigation)**

Currently under consideration