

## SWPHC18 – IHO Strategic Plan 2021-2026: GAP Analysis

(Ref: IHO Strategic Plan 2021-2026)



Members, Associate Members and Observer States

### Coastal State: United States of America

GOAL 1	Target	Current State	Gap	Actions
<b>Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation</b>	<ul style="list-style-type: none"> <li>Deliver standards for hydrographic data and specifications of hydrographic products; support their regular production; and coordinate regional and global services for their provision</li> <li>Develop standards, specifications and guidelines in the areas of data assurance, including cyber security and data quality assessment</li> <li>Use capacity building and training to develop and increase the ability of Member States to support safety and efficiency of maritime navigation</li> </ul>			<p><b>Actions towards achieving Goal 1:</b></p> <p>The United States works regionally and cooperatively via many mechanisms to provision hydrographic services.</p> <p>Many products and services are global in nature and freely available for use by all. Examples include the WGS 84 framework, the World Magnetic Model and Gravity, Specific surveys are conducted as assets are within region, and funding allow.</p>
<b>Strategic Performance Indicators</b> <b>SPI 1.1</b>	Percentage of Member States having operationalized production and distribution of hydrographic data products and services based on IHO Universal Hydrographic Data Model (S-100), under an implementation framework of coordination and agreed timelines <b>(2026: 100%)</b>	<b>0%</b>	<b>100%</b>	The US has plans to build S-100 based products as the standards are approved for use. Various agencies are involved in the development and testing of the new product specifications.
<b>SPI 1.2</b>	Number of hydrographic data products and services based on the Universal Hydrographic Data Model that cater for the new requirements: autonomous shipping, reduction of emissions	<b>Nil</b>	S-101, S-104 & others to be determined	Monitoring discussions
<b>SPI 1.3</b>	Percentage of hydrographic data products and services based on the S-100 model that are covered by IHO standards, specifications	<b>0%</b>	<b>100%</b>	

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	and guidelines on cyber security <b>(2026: 100%)</b>			
<b>SPI 1.4</b>	Percentage of navigationally significant areas (e.g. charted traffic separation schemes, anchorages, channels) for which the adequacy of the hydrographic knowledge is assessed through the use of appropriate quality indicators <b>(2026: 100%)</b>	<b>100%</b>	<b>0%</b>	The US has implemented all standards to meet international requirements
<b>SPI 1.5</b>	Ability and capability of Member States to meet the requirements and delivery phases of the S-100 implementation plan <b>(2026: 50%)</b>	<b>Yes</b>		Monitoring the timeline, budgeting outyear activities accordingly.

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GOAL 2	Target	Current State	Gap	Actions
<b>Goal 2: Increasing the use of hydrographic data for the benefit of society</b>	<ul style="list-style-type: none"> <li>● Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI)</li> <li>● Promote new tools and methods to accelerate and increase coverage, consistency, quality of surveys in poorly surveyed areas</li> <li>● Apply <a href="#">UN shared guiding principles for geospatial information management</a> in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data</li> </ul>			<p><b>Actions towards achieving Goal 2:</b></p> <ul style="list-style-type: none"> <li>- US Open Data provides for many access points to freely available data. Below are some examples.</li> <li>- US Marine Cadastre, <a href="https://marinecadastre.gov/">https://marinecadastre.gov/</a></li> <li>- Online service to translate data from ENC to GIS friendly formats, <a href="https://nauticalcharts.noaa.gov/data/gis-data-and-services.html#enc-direct-to-gis">https://nauticalcharts.noaa.gov/data/gis-data-and-services.html#enc-direct-to-gis</a></li> <li>- Hydrographic data is shared on US bathymetric data viewer, <a href="https://maps.ngdc.noaa.gov/viewers/bathymetry/">https://maps.ngdc.noaa.gov/viewers/bathymetry/</a></li> </ul>
<b>Strategic Performance Indicators SPI 2.1</b>	Number of hits downloading data/information from the portal			As there are many download points, this number is difficult to determine.
<b>SPI 2.2</b>	Percentage of adequately surveyed area per coastal state	Percentage of adequately surveyed area (ref C-55): <ul style="list-style-type: none"> <li>● Samoa: 4%</li> <li>● Guam - 0%</li> <li>● Howland - 4%</li> <li>● Jarvis - 4%</li> <li>● Kingman - 4%</li> </ul>		Continue to pursue nontraditional and outside government sources for survey data including SDB, autonomous technology, shared platforms, etc.  See C-55 for latest figures within region: Samoa, Guam and Wake Isl, Howland and Baker, Jarvis Island, and Kingman Reef & Palmyra

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<b>SPI 2.3</b>	Number of new applications of the new version of Standards for Hydrographic Surveys (S-44)	NOAA Hydrographic Surveys Specifications and Deliverables		Based on IHO S-44 <a href="https://nauticalcharts.noaa.gov/publications/standards-and-requirements.html">https://nauticalcharts.noaa.gov/publications/standards-and-requirements.html</a>
<b>SPI 2.4</b>	Number of HOs reporting success applying the principles in their national contexts <b>(2026: 70%)</b>	See above	<b>70%</b>	US Agency approach is documented via published or developing Data Strategies.  High focus on data principles supporting discoverability, accessibility, interoperability and usability of data.

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GOAL 3	Target	Current State	Gap	Actions
<b>Goal 3: Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean</b>	<ul style="list-style-type: none"> <li>Collaborate with other bodies who deliver capacity-building and training to improve effectiveness of capacity-building activities and programmes</li> <li>Improve knowledge of the world's seafloors</li> <li>Implement a comprehensive IHO digital communication strategy in order to enhance its visibility and accessibility to its work</li> </ul>			<p><b>Actions towards achieving Goal 3:</b></p> <p>The US participants within most International Governmental Organizations (IGO) that deal with maritime data.</p> <p>Contribution towards IHO funded SWPHC CB activities, primarily by providing instructors and curriculum for training activities.</p>
<b>Strategic Performance Indicators</b> <b>SPI 3.1</b>	Percentage of Coastal States that are capable to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI ( <b>2026: 90%</b> )	US is capable of providing MSI according to joint IMO/IHO/WMO manual on MSI	Nil	<p>Create and implement an on-line MSI training capability with IHO for MS use.</p> <p>Support the delivery of MSI training in SWPHC to achieve IHO CB Strategy Phase 1.</p>
<b>SPI 3.2</b>	Percentage of Coastal States that are able to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI ( <b>2026: 90%</b> )	US is able to provide MSI according to joint IMO/IHO/WMO manual on MSI	Nil	Support the delivery of MSI training in SWPHC to achieve IHO CB Strategy Phase 1
<b>SPI 3.3</b>	Number of contributors to DCDB who are not hydrographic offices	Ukn	Ukn	US to enhance the DCDB CSB implementation at NCEI.
<b>SPI 3.4</b>	Percentage of total sea area that is Seabed 2030 compliant for incorporation into the GEBCO dataset and services	Seabed 2030 Project to advise		Seabed 2030 Project to advise
<b>SPI 3.5</b>	Number of visits, likes, re-postings, etc. associated with the IHO social media sites	IHO Secretariat to advise		IHO Secretariat to advise
<b>SPI 3.6</b>	Volume downloaded from the IHO website and Geographical Information System (GIS)	IHO Secretariat to advise		IHO Secretariat to advise