5th Meeting **Of the IHO Council IRCC Report 13 Annex B: SPI allocation**



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SPI allocated for HSSC and IRCC

Targets	Strategic Performance Indicator (SPI)-measurement for successProposed Leadgraphic support for safety and efficiency of maritime navigation, undergoing profound transformationHSSCecifications ; support and tlobal n.1.1.1 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 (2026: 100%).60 % of MS distribute at least one product based on S-100.1.1.2 Number of hydrographic data products and services based on Universal Hydrographic Data Model that cater for the new requirements: autonomous shipping, reduction of emission.By 2026, 7* Product Specifications should be operational (ed 2.0.0.)[S-124]								
Goal 1: Evolving the hydrographic supp	ort for safety and efficiency of maritime navigation, undergoing profound	d transformation							
1.1 Deliver standards for		HSSC							
hydrographic data and specifications of hydrographic products; support their regular production; and coordinate regional and global services for their provision.	1.1.1 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 (2026: 100%).	60 % of MS distribute at least one product based on S-100.							
	1.1.2 Number of hydrographic data products and services based on Universal Hydrographic Data Model that cater for the new requirements: autonomous shipping, reduction of emission.	By 2026, 7* Product Specifications should be operational (ed 2.0.0.) [S-124]							
Based on that 62 of 94 IHO MS produce S-57 ENCs (March 2021)									



SPI allocated for HSSC and IRCC

Targets	Strategic Performance Indicator (SPI)-measurement for success	Proposed Lead							
Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation									
1.3 Use capacity building and training	1.3.1 Ability and capability of Member States to meet the	CBSC							
to develop and increase the ability of	requirements and delivery phases of the S100 implementation plan	RHCs							
Member States to support safety and	(2026: 50%).								
efficiency of maritime navigation.									



SPI allocated for HSSC and IRCC

Strategic Performance Indicator (SPI)-measurement for success	Proposed Lead								
Goal 3: Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean									
3.1.1 Percentage of Coastal States that are capable to provide marine WWNWS									
safety information (MSI) according to the joint IMO/IHO/WMO manual	CBSC (Phase 1)								
on MSI (2026 90%).									
	Strategic Performance Indicator (SPI)-measurement for success ional initiatives related to the knowledge and the sustainable use of the 3.1.1 Percentage of Coastal States that are capable to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI (2026 90%).								



National Coordinator MSI Support 2020





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S-100 Product Specifications developments and Timeline

	2021	2022		20	23	>	2024	>	2025	\geq	2026
S-100	Finalize Edition 5.0.0		Edition 5.0.0 Published					Work begins on future editions of S-100			
ENC S-101	Development and Finalization 1.1.0	n Edition Pre Imple	eliminary ementatio n	Development & Finalization Edition Imp 2.0.0			nplementation	Operational Data			
Testbed Activities	Development of S	hore based ECDIS	5 systems	s Development of Full ECDIS Implementation						Operation al ECDIS	
Bathymetry S-102	Development and Testing ar 3.0.0	d Finalization of E	Edition	Implementation Operational Data							
Water Levels S-104	Edition 1.0.0 Preliminary n	Develop Finalization o	velopment and Implementation					Operational Data			
Surface Currents S-111	Development and Testing and Finalization of Edition 2.0.0 Implementation					Operational Data					
Nav Warnings S-124	Development and Finalizat Edition 1.0.0	Preliminary Implementation Edition 1.0.0				Fi	Development and nalization of Edition 2	.0.0 II	mplementation	Operat	ional Data
Catalog of Catalogs S-128	Development and Testing and Finalization of Edition 1.0.0 Imple			mentation		Operational Data					
UKC Management S-129	Development and Testing and Finalization of Edition 2.0.0				ementation Operational Data						
HO International Hydrographic This timetable should be restructured as a Gantt diagram in the S-100 Implementation Strateg											

Annex 2 and also include S-98, S-164 and the Route Monitoring S-1xx PS.

S-100 Product Specifications developments and Timeline

	2021	20)22	20	23	2024		2025	\rightarrow	2026	
S-100	Finalize Edition 5.0.0)	Edition 5.0.0 Put			lished	d Work begins on fur			ure editions of S-100	
ENC S-101	Development and Finalizatio 1.1.0	n Edition	Preliminary Implementation	Develo Finalization	oment & Edition 2.0.0	Implementa	ation	Ope	Operational Data		
IMO	IMO update ECDIS Performance Standards						IMO Performance Standards Phase In				
IEC						IEC updates IEC 61174				IEC 61174	
Testbed Activities	Development of Shore based ECDIS systems					Development of Full ECDIS Impler			mplementation	Operational ECDIS	
					HOs to Opera S-101	Produce ational LENCs					



Total Navigational Warnings by year





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NAVAREA warnings promulgated by each NAVAREA for 2020





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NAVAREA warnings promulgated by each NAVAREA for 2019





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NAVAREA warnings promulgated by each NAVAREA for 2018





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Display anomalies in ECDIS

- In the beginning of May 2021 the ENCWG was informed by one of the major ECDIS kernel manufacturer that they have identified a display problem in their software, affecting a large amount of type approved ECDIS being used, possibly endangering safety of navigation.
- As a consequence, and due to the challenging existing updating mechanisms in existing S-57 based ECDIS, HOs have been requested to always issue New Editions of ENCs when so called Skin-of-the-Earth features are changed and not issue these updates as ERs. Some ENCs, where updates have been provided as ER, must also be re-issued as New Editions.
- An ENC Encoding Bulletin is under development by the ENCWG, but all HOs have already been informed by ENCWG Letters and information from the RENCs. At present this new routine is to considered temporary, but understanding the difficulties to update possibly affected ECDIS, HOs should understand that it could stay for a longer period.



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ENC STANDARDS MAINTENANCE WORKING GROUP (ENCWG)

[A Working Group of the Hydrographic Services and Standards Committee (HSSC)]

Distribution: IHO Member States

07 May 2021

Ref: SevenCs ECDIS Kernel EC2007, ENC updates causing ECDIS display issues.



As ENCWG chair I have held a meeting with SevenCs and the IHO Secretariat to discuss the issue. SevenCs have assured us that the ECDIS still alarms and indicates in route planning and monitoring mode and all objects are visible in IMO display mode ALL OTHER. SevenCs internal investigation has resulted in a small number of ENC s cells in a database of over 17,000 ENCs that may be impacted by this issue. They have informed the IHO Secretariat that the problem can be fixed by issuing an ENC new edition. The RENCs have been informed and will contact any MS who has affected cells.