



#### IHO File No S3/8152 & S3/8151/S-65

CIRCULAR LETTER 26/2021 01 July 2021

# SURVEY ON THE PRODUCTION OF HIGH DENSITY ENCs (HD ENCs)

References:

- A. Action IRCC11/04.
- B. S-65, Annex A, Edition 1.0.0, January 2020 *HD ENC Production and Maintenance Guidance*.
- C. Doc. IRCC13-07D1 and Annex B WENDWG Report to IRCC and Proposed Questionnaire.
- D. Decision IRCC13/15.

#### Dear Hydrographer,

- 1. The 11<sup>th</sup> meeting of the Inter-Regional Coordination Committee (IRCC-11) tasked the Worldwide ENC Database Working Group (WENDWG) to prepare a questionnaire to capture the status and plans of users/producers of High Density ENCs and report back to IRCC (Reference A).
- 2. Following IRCC-11, the WENDWG noted that an approved definition and other specifics of HD ENCs were not available yet and this task was postponed.
- 3. In January 2020, Edition 1.0.0 of HD ENC Production and Maintenance Guidance was issued as Annex A to S-65 *ENCs: Production, Maintenance and Distribution Guidance* (Reference B).
- 4. At WENDWG-11 (February 2021), the WENDWG noted the report of IC-ENC on HD ENCs and agreed on the value to conduct a Member States survey on their respective HD ENCs Production Plans. The WENDWG developed a questionnaire intended for ENC producers to report their production plans of HD ENCs. The Working Group also noted that the impending release of S-102 data from hydrographic offices makes it increasingly important to understand global plans regarding HD ENCs. The proposed WENDWG questionnaire (Reference C) was approved by IRCC-13 and it was decided to commence the survey. (Reference D).
- 5. The general objectives of the survey are as follows:
  - To gather IHO Member States' intentions on the production plans of HD ENCs in their areas of responsibilities (national level, or as primary charting authority).
  - To collate the production techniques, timeliness dataflow and arrangements with port authorities.
  - To identify challenges faced by the current and prospective HD ENC producers namely, production and distribution chain, quality control and consistency with other nautical products (ENCs, ENC coverage, nautical publications, etc).

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- To share harmonization/best practices insights and know-how.
- To interview HD ENCs Producers on their intentions once S-102 becomes operational.
- Survey target: IHO Member States<sup>1</sup>. Information: RENCs/RECC.
- 6. The outcome of the survey is planned to be made available on the WENDWG webpage (<a href="https://iho.int/en/wendwg">https://iho.int/en/wendwg</a>). The consolidated report will be finalized at the WENDWG-12 meeting planned for February 2022 with conclusions and recommendations to be reported at IRCC-14 (May/June 2022).
- 7. As requested by the IRCC (Reference D), the IHO Secretariat now invites Member States to participate in the survey, by email (cl-lc@iho.int) when using the form in Annex A), but preferably using the IHO Online Form System by accessing the following link:

### https://IHO.formstack.com/forms/cl\_26\_2021

8. Responses should reach the IHO Secretariat not later than 30 September 2021.

On behalf of the Secretary-General Yours sincerely,

Luigi SINAPI Director

Annex: HD ENCs Questionnaire

<sup>&</sup>lt;sup>1</sup> In accordance with P-5 contact details.

## **HD ENCs QUESTIONNAIRE**

(to be returned to the IHO cl-lc@iho.int by 30 September 2021)

Memi	ber Sta	ate				
Note: o	circle th	e correct answe	er.			
	Q1	Are you aware	of the publi	cation of Editio	n 1.0.0 of Annex A to S-65 (H	D ENCs)?
	Comm	<u>nent</u> :		Yes	No	
	-	•	duce specif		Annex A to S-65 (HD ENCs or did you produce HD-like E	
	If ves	nlease explain	production	Yes	No  / in few words and use case	es vou are
	aware	•			, in row words and doe odes	o you are
	Q2.1 is inco	If you don't pro			does it mean that HD-type ir	nformation
	Comm	<u>nent</u> :				
	Q2.2	Do you plan to	adopt a sy	stematic cover Yes	age of specific areas? No	
	What	are these speci	fic areas?			
		ain ports nannels and wat hers	terways			
	Comm	<u>nent</u> :				

b. c.	customer feedback port recommendation analysis of traffic patterns and other	depth constra	ints
<b>Q3</b> ENC		e organization	responsible for the production of HD
Q3.	1 The Hydrographic Office?		
		Yes	No
Q3.	2 Port authority(ies) (or equiv	/alent)?	
Con	<u>nment</u> :	Yes	No
Q3.	3 Both		
<u>Con</u>	<u>nment</u> :	Yes	No
<b>Q4</b> ther	e any delegation of production		e official producer of the HD ENCs, is es to the port authority (or equivalent)? No
Con	nment:		
Q4.	1 do you use the national S-62	? producer cod Yes	e for these HD ENCs? No
Con	nment:	103	TVO
Q4.:	2 or does the port authority use	e its own agen Yes	cy S-62 producer code? No
Con	nment:	103	TVO
		control? Impa	NCs? Is it driven by the update regimentate act on the distribution chain? (RENC
Con	nment:		
		Yes	No
Con	nment:		
Q5.	• • •	new survey da Yes	ta No
Con	<u>nment</u> :		

**Q2.3** How do you determine where HD ENCs will add value to users?

Q5.3 Average time between two HD ENCs editions						
Comment:						
Q5.3.1 Depend on the variability of the area?						
Comment:	Yes	No				
Q5.3.2 Depend on the last survey	/ order? Yes	No				
Comment:						
Q5.3.3 Do you maintain other ENCs (usage band 5 for instance, produced by HOs) using data from new HD ENCs? Even when the production chain is shared with other authorities?						
Comment:	Yes	No				
Q6 In critical areas where HD	In critical areas where HD ENCs are produced					
Q6.1 what is the average time b	oetween two su	urveys?				
1 week? 2 weeks? Comment:		2 months?				
Q6.2 how are the survey aiming to provide data to HD ENCs processed/validated?						
automatically? Semi-automated? Manual?  Comment:						
Q6.3 what is the average time between the outcome of a new survey and the availability on the bridge of your HD ENC?						
1 week? 2 weeks? Comment:		2 months?				
<b>Q7</b> Are you aware of the availability of Edition 2.0.0 of S-102 Product Specification - Bathymetric Surface?						
Comment:	Yes	No				
<b>Q8</b> Are you aware of specific	Are you aware of specific requirements by Port State Control authorities?					
Q8.1 for these HD ENCs?	Yes	No				
Comment:						
Q8.2 or for S-102 products whe	or for S-102 products when they start to become available?  Yes No					
Comment:		INU				

<b>Q8.3</b> In your opinion, what are the advantages and drawbacks if any, of a HD ENC compared to a non HD S-101 ENC coupled with S-102 product?						
Comment:						
<b>Q9</b> Is it your intention to start the regular production of S-102 products in some areas in your country?						
Comment:	Yes	No				
<b>Q10</b> If you intend to produce S-102 products, do you intend to adapt or withdraw your HD ENCs, if you are producing them?						
Comment:	Yes	No				
<b>Q11</b> Once S-101 becomes operational and S-100 ECDIS become available, do you envisage to "convert" your existing HD ENCs						
<b>Q11.1</b> to new S-101 [HD-like] EN	Yes	No				
Comment:						
Q11.2 to S-102 products only?	Yes	No				
Comment:						
Q11.3 or do you envisage to maintain both HD ENCs and S-102 products?  Yes  No						
Comment:						
Q12 Based on your experience (HD ENCs, S-102 test data sets), what are the top 3 recommendations you would like to share with the IHO Member States willing to start their production of HD ENCs?						
Comment:						
Q13 Based on your experience (HD ENCs, S-102 test data sets), what are the top 3 recommendations you would like to share with the IHO Member States willing to start their production of S-102 products?						
Comment:						