

**5TH MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE
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Information Paper

Status of Temporary and Preliminary ENC Updates

Submitted by:	IHB
Executive Summary:	This paper reports on the current status of promulgation of temporary and preliminary notices in ENC ER Updates.
Related Documents:	IHO circular letters 09/2011, 30/2011 and 34/2013 Final minutes of HSSC2 (section 5.10) Final minutes of HSSC3 (section 5.10 and action HSSC3/20) Final minutes of HSSC4 (section 3.B and action HSSC4/01) Doc. HSSC3-05.10A rev1 Publication S-57 Appendix B.1 Annex A - <i>Use of the Object Catalogue for ENC - Clause 2.6.2 - Guidelines for encoding Temporary and Preliminary ENC Updates</i>
Related Projects:	None

Background

1. At the request of HSSC (action HSSC2/17), a survey was conducted in 2011 to assess the status of production and publication of Temporary (T) and Preliminary (P) ENC updates, and also the status of the implementation of the *IHO Guidelines for encoding Temporary and Preliminary ENC Updates*. The results were presented to HSSC-3 in 2011 (Doc. HSSC3-05.10A rev1).
2. HSSC-3 requested the IHB to survey Member States again in 2013 on this matter (action HSSC3/20). The request was confirmed at HSSC-4 (action HSSC4/01). Accordingly, a new survey was conducted in 2013 (CL 34/2013). This report presents the consolidated results of both 2011 and 2013 surveys.

Analysis

3. The consolidated results of both 2011 and 2013 surveys are detailed in Annex A. Some Member States reported in 2013 that they were not yet producing T and P updates for ENC although they had reported in 2011 that they were producing such updates. In such cases, the 2011 reports have been aligned with the 2013 reports. The scope of the revised analysis is limited to the 53 Member States that are currently issuing ENCs under their producer code, for themselves or on behalf of other States, according to the information collated at the IHB.
4. The revised outcome of the 2011 survey are as follows:
 - 40 Member States were publishing T and P notices to mariners (NM) for paper charts, and of those, 25 Member States indicated that they were also producing ENC (ER) equivalent updates;
 - of the 15 Member States that were producing (T) and (P) NM for paper charts but did not yet produce equivalent ENC updates, 10 expected to do so by the end of 2012.

5. The 2013 survey reveals that of the **10** Member States that had expressed their intention to soon move to the production of T&P ENC updates, in addition to producing NM (T) and (P) for paper charts, **5** Member States are now producing T&P updates for ENC via ER application profiles as recommended in clause 2.6.2 of S-57 Appendix B.1 Annex A (China, Japan, Malaysia, Norway and Romania – highlighted in yellow in Annex A). **4** other Member States have indicated that they intend to do so in the period 2013-2015 (Iceland, Italy, Rep. of Korea and Ukraine – highlighted in blue in Annex A). The last MS concerned has not yet responded to CL 34/2013 (New Zealand). Mexico which did not indicate its intention in 2011 indicates now that it intends to produce T&P updates for ENC in 2014. Greece which indicated in 2011 that it was not producing T&P updates for paper charts indicates now that it does and is studying the production of T&P updates for ENC.

6. The current situation can be summarized as follows:

- 53 Member States are currently issuing ENCs under their producer code, for themselves or on behalf of other States, according to the information collated at the IHB.
- 46 of them had responded to CL 09/2011, of which 39 have responded to CL 34/2013 (as of 29 October¹).
- Among the 46 which had responded in 2011, 41 Member States publish (T) and (P) NM for paper charts, and of those, at least 30 Member States also produce equivalent ENC (ER) updates.
- of the 11 Member States known to produce (T) and (P) NM for paper charts but that do not yet produce equivalent ENC updates, at least 5 expect to do so in the period 2013-2015.

7. Member States generally agreed that the *Guidelines for Encoding T&P ENC Updates* (Clause 2.6.2 of S-57 Appendix B.1 Annex A) provide sufficient guidance on how to encode T&P NMs via ENC updates. However some suggestions for improvement of the guidelines have been made as part of Member States' responses to CL 34/2013 (see Appendix to Annex A), which need to be taken into consideration.

Recommendations

8. Based on the above analysis, it is recommended to:

- 8.1. consider that the current status of promulgation of T&P ENC updates [at least 30 MS (at least 35 by 2015) out of 41 Member States publishing (T) and (P) NM for paper charts] leaves further room for improvement;
- 8.2. invite MS who do not plan to align their ENC and paper chart (T) and (P) update regimes to reconsider their position and report on any need for assistance;
- 8.3. take into consideration the suggestions in the Appendix to Annex A, for improvement of the *Guidelines for Encoding T&P ENC Updates* (Clause 2.6.2 of S-57 Appendix B.1 Annex A - UOC), on the occasion of the next edition of the UOC.

Action required of HSSC

9. The HSSC is invited to:

- a. **note** this report;
- b. **consider** the recommendations in paragraph 8, and
- c. **take** any other action as appropriate.

¹ The IHB has sent reminders to the Member States which have not yet responded.

Annex A

Status of T&P ENC Updates Summary of MS' responses to IHO CL 34/2013

- (1) Do you produce Temporary and Preliminary (T&P) Notices to Mariners (NMs) for paper Charts?
- (2) If you answer "Yes" to question 1, do you promulgate the equivalent of the T&P NMs for paper charts via ENC updates (via ER application profile)?
- (3) If you answer "No" to question 2, please indicate when you plan to produce T&P updates for ENC via ER application profiles as recommended in clause 2.6.2 of S-57 Appendix B.1 Annex A?
- (4) Do you think that the *Guidelines for Encoding T&P ENC Updates* (Clause 2.6.2 of S-57 Appendix B.1 Annex A) provide sufficient guidance on how to encode T&P NMs via ENC updates?

-- = no response NA = Not Applicable * = comments provided (2013)

(Yes) expected status in the absence of a response to CL 34/2013

Member State	ENC Produced (2013)	(1)		(2)		(3)		(4)	
		2011	2013	2011	2013	2011	2013	2011	2013
Algeria	--		Yes		Yes		NA		Yes
Argentina	Yes	Yes	Yes	Yes	Yes	NA	NA	No opinion	Yes
Australia	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Bahrain	Yes	No	No	No	No	--	--	Yes	--
Belgium	Yes	Yes	Yes	Yes	Yes*	NA	NA	Yes	Yes
Brazil	Yes	Yes	(Yes)	Yes	(Yes)	NA	(NA)	Yes	(Yes)
Canada	Yes	No	No	NA	NA	Not planned	Not planned*	No opinion	No opinion
Chile	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
China	Yes	Yes	Yes	No	Yes	2012	NA	No opinion	No opinion
Colombia	Yes	Yes	(Yes)	No		--		Yes	
Croatia	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes*
Cuba	Yes								
Denmark	Yes	Yes	Yes	No	No*	Not defined	Not defined	Yes	Yes
Ecuador	--	Yes	Yes	No ³	No	--	2014	Yes	No opinion
Egypt	Yes								
Estonia	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Finland	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
France	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes*
Germany	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Greece	Yes	No	Yes	NA	No	NA	Under study	Yes	Yes
Iceland	Yes	Yes	Yes	No	No	2012	2013	No opinion	Yes
India	Yes	Yes	Yes	No	No	Not defined	Under study	No opinion	--
Indonesia	Yes								
Iran	Yes								
Ireland	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ^{1*}	NA	NA	No opinion	No opinion

¹ Through arrangement with another State.

Italy	Yes	Yes ²	Yes ²	No	--	2012	2015*	Yes	Yes*
Japan	Yes	Yes	Yes	No	Yes	2012	NA	No opinion	Yes
Korea (DPR of)	Yes								
Korea (Rep. of)	Yes	Yes	Yes	No	No	2012	2014	Yes	Yes
Latvia	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Malaysia	Yes	Yes	Yes	No	Yes	2012	NA	Yes	Yes
Mexico	Yes	Yes	Yes	No ³	No	--	2014	--	Yes*
Morocco	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ¹	--	NA	No opinion	No opinion
Netherlands	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
New Zealand	Yes	Yes	(Yes)	No		2012		Yes	
Norway	Yes	Yes	Yes	No	Yes	2011	NA	Yes	Yes
Pakistan	Yes								
Papua New Guinea		Yes	(Yes)	Yes	(Yes)	NA	(NA)	No opinion	
Peru	Yes	Yes	Yes	Yes	Yes	NA	NA	--	Yes
Philippines	Yes	Yes	(Yes)	Yes	(Yes)	NA	(NA)	Yes	(Yes)
Poland	Yes	Yes	Yes	Yes	Yes*	NA	NA	Yes	Yes
Portugal	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Romania	Yes	Yes	Yes	No	Yes*	2011	NA	Yes	Yes
Russian Federation	Yes	No		NA		NA		Yes	
Singapore	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Slovenia	Yes	No	No	NA	NA	NA	NA	Yes	No opinion
South Africa	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Spain	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Sri Lanka	Yes								
Suriname	Yes	Yes	(Yes)	Yes	(Yes)	NA	(NA)	Yes	(Yes)
Sweden	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Thailand	Yes	Yes	Yes	No ³	No	NA	--*	No opinion	Yes*
Turkey	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes
Ukraine	Yes	Yes	Yes	No ³	No	2011	2014	Yes	Yes
UK	Yes	Yes	Yes	Yes	Yes*	NA	NA	Yes	Yes*
USA	Yes	No	No	NA	NA*	NA	NA	No opinion	No opinion
Uruguay	Yes	Yes	Yes	Yes	Yes	NA	NA	Yes	Yes*
Venezuela	Yes	Yes	(Yes)	Yes	(Yes)	NA	(NA)	Yes	(Yes)

² Although its answer was No, Italy has been counted as Yes, since this information appears in an Italian NMs Booklet.

³ Response aligned with the 2013 response.

Appendix to Annex A

Status of T&P ENC Updates Responses to CL 34/2013 – MS' comments

- (1) Do you produce Temporary and Preliminary (T&P) Notices to Mariners (NMs) for paper Charts?

BAHRAIN (answer = “No”): HSD does not issue Temporary and/or Preliminary Updates as we only very seldom receive this information prior to implementation. So neither paper nor ENC's P&T are issued.

- (2) If you answer “Yes” to question 1, do you promulgate the equivalent of the T&P NMs for paper charts via ENC updates (via ER application profile)?

BELGIUM (answer = “Yes”): The T&P NMs for paper charts which contain important navigational information will be equivalent promulgated.

ECUADOR (answer = “No”): The Hydrographic Institute of the Ecuadorian Navy has ENC's but they are not on sale.

IRELAND (answer = “Yes”): All paper charts and ENC's for Irish waters are produced by the UKHO.

POLAND (answer = “Yes”): P&T notices are included if necessary, but they are considered on a case by case basis.

UK (answer = “Yes”): The promulgation of ENC Updates are synchronised to agree with those of the equivalent paper chart.

USA (answer = “No”): USA (NOAA) does not intend to produce T&P updates to ENC's in the foreseeable future.

Uruguay (answer = “Yes”): The only attributes which are not being completed in the production of T & P Notices to Mariners are DATSTA and DATEND. According to our management policy for the Notices to Mariners, such Notices enter into force from the publication of a Brochure or Bulletin of Notices to Mariners and are valid till they are cancelled.

- (3) If you answer “No” to question 2, please indicate when you plan to produce T&P updates for ENC via ER application profiles as recommended in clause 2.6.2 of S-57 Appendix B.1 Annex A?

CANADA (answer = “not planned”): CHS does not use the T&P Notice process. However, when a Notice is deemed necessary for critical safety information of a short duration, CHS disseminates this information through a broadcast Notice to Shipping (Radio Navigational Warning) and through the full Notice to Mariners process (paper and ENC) when these critical items are of an extended duration.

ECUADOR (answer = “2014”): We have application software for the T&P Notices to Mariners for ENC's.

ITALY (answer = “2015”): We do not produce T and P NMs for our paper charts; however in the Italian NMs Booklet there is the section C1 “Nautical Information” where the mariners can find also Temporary and Preliminary notices (not compliant with IHO publication S-4 Part B-600 “*Chart maintenance*”). Anyway, every notice is pertinent to different paper charts covering the same geographic area. Currently, we are not still able to manage properly T&P information, neither for Paper Chart nor for ENC. However, we are changing our work flow implementing new software and a geographic database. We are planning to produce T&P updates for Paper Chart and for ENC in a coherent way and at the same time.

THAILAND (no answer): At present, HDRTN (Cartographic Division) has no plan to produce T&P update for ENC via ER application. Moreover HDRTN has never brought T&P NMs, to be updating information for paper charts’ amendment. T&P NMs are issued for warning via website and RNW.

- (4) Do you think that the *Guidelines for Encoding T&P ENC Updates* (Clause 2.6.2 of S-57 Appendix B.1 Annex A) provide sufficient guidance on how to encode T&P NMs via ENC updates?

FRANCE: Suggests dealing with the case of those zones involving several producer nations: in zones involving several producer nations, Hydrographic Services should consult the T&P Notices of other Hydrographic Services and encode these T&P Notices on their own ENCs, if the information to be entered is compatible with the scale and content of these ENCs.

ITALY: Reading the clause 2.6.2, it appears clear and sufficiently detailed, anyway we do not have enough practical knowledge in order to provide any suggestions.

MEXICO: A scale could be created, perhaps of a quantitative type, in which a limit is defined to produce a Temporary (T) or Preliminary (P) update and a new edition of the chart.

The above implies that a change in the ENC can be within the permitted limit of an update and, at the same time, substantially modify the topological structure of the chart. Hence the mandatory question would be: to produce a temporary update through Notices to Mariners or the same update in a new edition?

We suggest extending this clause with some other examples: such as the DMPGRD Dumping Ground.

THAILAND: The guidelines for encoding T&P ENC updates provide enough examples to generate T&P NMs via ENC updates. The guidelines would be clearer if it provided potential problems with each example in clause 2.6.2 of S-57 Appendix B.1 Annex A.

UK: Whilst the referenced Guidelines are clear on the requirements for the encoding of traffic routing changes (2.6.1.1 and 2.6.2), including the statement ‘*At least one month before the changes*’, there needs to be an emphasis on ensuring that the details of such important safety information are promulgated with sufficient lead time to meet all users’ needs.

Uruguay: We have presently a doubt about which is the correct action to be taken when a Temporary Notice affects the light of a buoy or beacon and also whether with this Notice we have to assign attributes to the buoy/beacon itself and to the topmark, if any. Up to now, when these situations occur, we correct the light only, and we have received by now no observations from the corresponding RENC.