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HCA Letter No. 1/2007

To: Members and Observers of the IHO Hydrographic Committee on Antarctica (HCA)
(see list in *Annex A*)
Subject: ENC Schemes for Region M
References:

Dear Sir or Madam,

Action No. 5 from the 6th HCA Meeting (Punta Arenas, Chile, 6-8 November 2006) was for the IHB, as INT coordinator for Region M, to:

Draft and circulate for comments an ENC draft scheme for Region 'M', taking into consideration the approaches adopted by other RHCs. Initial focus should be on navigational purposes 1 (overview) and 2 (general). Then prepare Final version for decision at HCA7.

As a result, draft ENC schemes have been prepared at the IHB, as follows:

- ENC scheme for Navigational Purpose 1 (Overview), based on:
 1. The IHO INT chart scheme at scale 1: 10M.
 2. The IHO INT chart scheme for Region 'M' (1: 2M scale series).
- ENC scheme for Navigational Purpose 2 (General), based on the IHO INT chart scheme for Region 'M' (1: 500K scale series).

They are presented in Annexes C and D, respectively. In preparing these drafts, the followings were taken into consideration:

1. WEND Principle 2.4, which reads: *"The INT chart system is a useful basis for initial area selection for producing ENCs"* (see IHO TR K2.19).
2. The approaches adopted in MBSHC and EAHC areas to develop ENC schemes for Regions 'F' and 'G', under France's coordination.
3. The recommended assignment of navigational purposes to scale ranges, as contained in IHO CL 47/2004, Annex A, § 3 (reproduced in Annex B).
4. Section 2.2 (Cells) of the ENC Product Specification (Appendix B.1 of S-57 Ed. 3.1), where it is said: *"Cells with the same navigational purpose may overlap. However, data within the cells must not overlap. Therefore, in the area of overlap only one cell may contain data, all other cells must have a meta object M_COVR with CATCOV = 2¹ covering the overlap area. This rule applies even if several producers are involved"*.

¹ no coverage available

5. Priorities to resolve ENC cell overlaps, as given below by decreasing order:
- ENC cell already published, e.g. GB10464 by UK.
 - ENC cell which publication is planned for the coming year(s), e.g. ENC based on INT 9172 to be published by Russia in 2007.
 - ENC cell based on the larger scale INT chart within same navigational purpose, i.e. a 1: 2M ENC takes priority over a 1: 10M ENC. For example, when the 1: 2M ENC GB104907 is published, the existing 1: 10M ENC GB104024 will need to have a meta object M_COVR with CATCOV attribute value = 2 (no ENC coverage) for the area covered by the former ENC.
 - INT chart already published (latest edition date determines overlapping priority), e.g. INT 901 published by SHOM in 2006 takes priority over INT 902 published by Russia in 2000.
 - INT chart not yet published, e.g. INT 63 (Chile producer).
 - INT chart with no assigned producing HO yet, e.g. INT 909 (identification of producer in progress).

As a general note, it is proposed that the producer of an ENC be the same as that of the corresponding INT chart. Also, limits of the proposed ENC cells are the same as those for the corresponding INT charts, as shown in Publication M-11 (see www.ihb.int > Publications > Catalogue).

You are kindly requested to examine the draft ENC schemes at Annexes C and D, and provide your comments / approval to the IHB **by 15 April 2007**. As necessary revised schemes will then be prepared at the IHB for future consideration by HCA members and observers. NO response will be understood as approval of the proposed ENC schemes.

Also, please report to the HCA Secretary (mhuet@ihb.mc) any changes to the membership list at Annex A.

Thank you for your attention.



Captain Hugo M. GORZIGLIA
IHB Director and Chairman of HCA

Enclosures: Annex A – Members and Observers of HCA
 Annex B – Recommended Assignment of Navigational Purposes to Scale Ranges
 Annex C – Draft ENC Scheme for Navigational Purpose 1
 Annex D – Draft ENC Scheme for Navigational Purpose 2

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(January 2007)

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RECOMMENDATIONS FOR CONSISTENT ENC DATA ENCODING

(Taken from IHO CL 47/2004 - Annex A)

3. HO's may assign each ENC to a navigational purpose based on the ENC's compilation scale. This should be done in consultation with neighbouring HO's or with all nations within a RENC, or with all nations within a Regional Hydrographic Commission, in order to maintain consistency across national or regional boundaries. For instance, the following ranges may be applied:

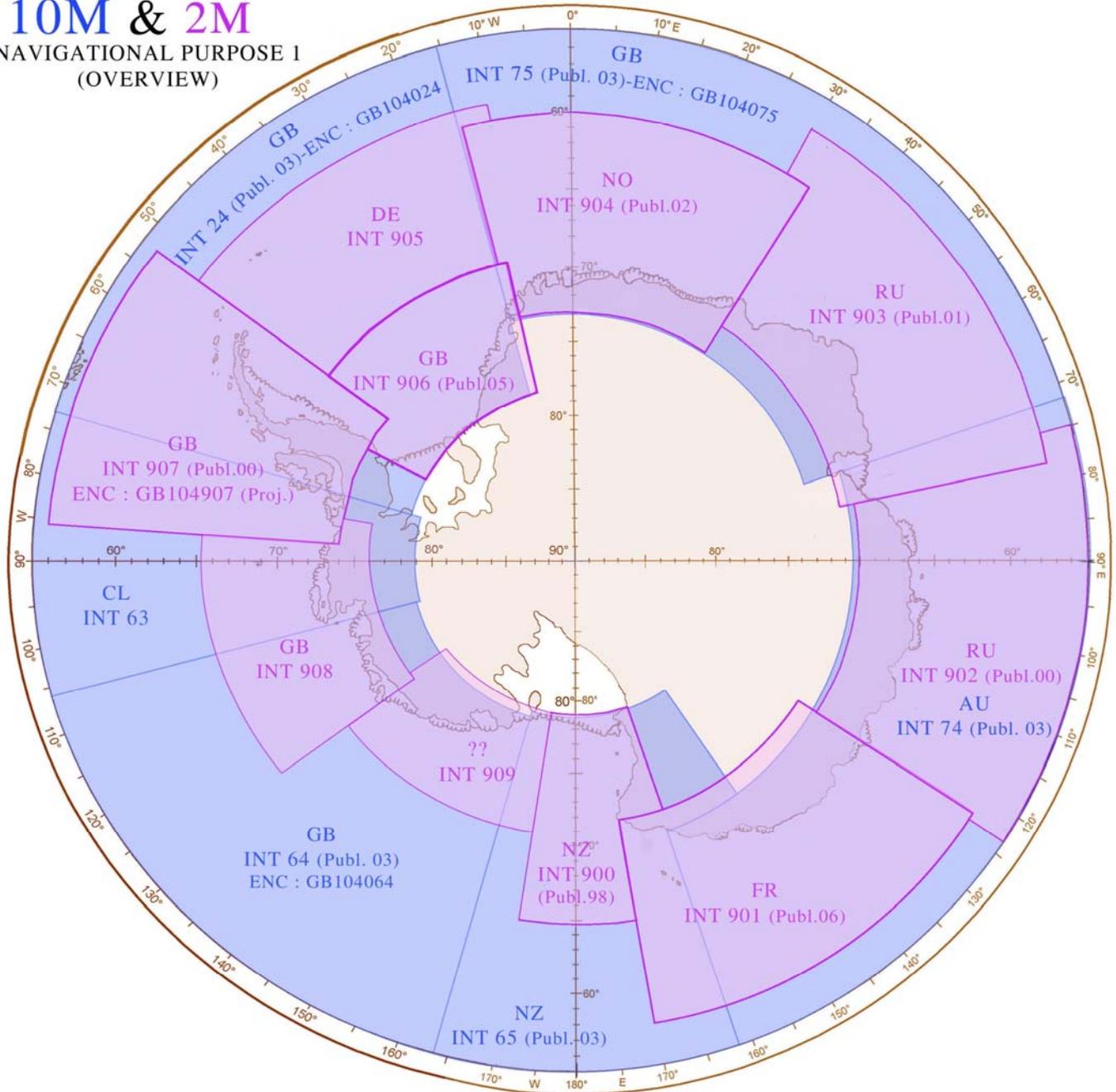
Navigational Purpose	Name	Scale Range	Available Compilation Scales	Matching Scale Ranges
1	Overview	<1:1,499,999	3,000,000 and smaller 1,500,000	200 NM 96 NM
2	General	1:350,000 - 1:1,499,999	700,000 350,000	48 NM 24 NM
3	Coastal	1:90,000 - 1:349,999	180,000 90,000	12 NM 6 NM
4	Approach	1:22,000 - 1:89,999	45,000 22,000	3 NM 1.5 NM
5	Harbour	1:4000 - 1:21,999	12,000 8000 4000	0.75 NM 0.5 NM 0.25 NM
6	Berthing	> 1:4000	3999 and larger	< 0.25 NM

Table 2 Possible assignment of navigational purposes to scale ranges

Note that this correlation of navigational purposes to compilation scale is intended to give guidance to those HO's about to start ENC production or to those who wish to rescheme their ENC cells.

REGION M
DRAFT ENC SCHEME FOR NAVIGATIONAL PURPOSE 1 (OVERVIEW)
Based on the 1: 10M and 1: 2M (Region M) INT Chart Series

10M & 2M
NAVIGATIONAL PURPOSE 1
(OVERVIEW)



REGION M
DRAFT ENC SCHEME FOR NAVIGATIONAL PURPOSE 2 (GENERAL)
Based on the 1: 500K INT Chart Series

1 : 500 000
NAVIGATIONAL PURPOSE 2
(GENERAL)

