

**11TH WEND COMMITTEE MEETING
Tokyo, 2-5 September 2008**

Paper for consideration by WEND

[Guidelines for the preparation and maintenance of small/medium scale ENC schemes]

<i>Submitted by:</i>	France
<i>Executive Summary:</i>	It is proposed to develop guidelines concerning the preparation and maintenance of small/medium scale ENC schemes (navigation purposes 1 and 2, and possibly 3).
<i>Related Documents:</i>	Wend Principles (TR K2.19); IHB File N° S3/8152/CHRIS dated 21 November 2007 (see Annex C); IHO Publication S-65.
<i>Related Projects:</i>	IHO online catalogue. Role of RENCs and RHC Chairs.

Summary

In recent years, some Regional Hydrographic Commissions (RHC) have been successfully coordinating the establishment of regional ENC schemes with the implicit support of INT chart coordinators. IHB letter in reference also requests “the cooperation of the chairs of RHCs and the INT chart coordinators” regarding the planning, production and maintenance of small scale ENC schemes.

There is now a good opportunity and a need for developing the appropriate guidelines in order to:

- provide guidance to RHCs and accelerate the preparation and maintenance of these ENC schemes;
- monitor progress in the development of regional ENC schemes;
- make available and record details of agreed regional ENC schemes.

These guidelines should clarify the respective roles of the RENC(s), RHC Chairs, regional chart coordinators, and encompass the implementation of the WEND principles, and the interface with the IHO online catalogue.

Two options might be considered:

- the revision of publication S-65 “ELECTRONIC NAVIGATIONAL CHARTS (ENCs) PRODUCTION GUIDANCE” in order to include an additional section on the preparation and maintenance of ENC chart schemes;
- the preparation of a dedicated publication (M-10?) “GUIDANCE FOR THE PREPARATION AND MAINTENANCE OF ENC CHART SCHEMES AND CATALOGUE OF ENCs” which would be the equivalent of M-11 for INT paper charts;

Analysis

Publication M-11 is recognised as a very useful and detailed reference for INT paper chart schemes which have been schemed in the IHO regional international charting regions. The relevance of having a similar publication for small/medium scale ENCs has become obvious. The IHB letter in reference also demonstrates the need for the cooperation of INT chart coordinators.

Some documents currently exist, which contain guidelines for the preparation and the consistency of ENC schemes. However, they are diverse, even sometimes redundant and need to be compiled in a single document for better availability and understanding. They could form a new section of S-65

providing “Guidance for the preparation and maintenance of small/medium scale ENC schemes” or be compiled into a new dedicated publication.

Recommendations

1. Coordination of small/medium scale ENC schemes

It is proposed that, in line with the intention of IHB letter in reference, INT chart coordinators be assigned the responsibility for preparing and maintaining regional ENC schemes, in addition to INT schemes, in their respective and relevant INT regions. The main reason is that it is probably the better and easiest way to provide consistency and to establish a quality assessment of nautical information in the region. This solution should be easy to implement as it provides a comprehensive overview of the charts available in the region (from a S-55 perspective). These ENC schemes should be established for navigational purposes 1 (Overview) and 2 (General), and optionally 3 (Coastal). The agreed schemes should then be included in a “Catalogue of small/medium scale ENCs” with the same frame as the current part B of publication M-11 for INT paper charts. A model of lay-out is shown at Annex A.

2. Guidance for the preparation and maintenance of small/medium scale ENC schemes

It is also proposed to consider developing a reference IHO document dealing with “Guidance for the preparation and maintenance of small/medium scale ENC schemes”. This document should take into account:

- The annex to the WEND principles “Guidance for the establishment of ENC production boundaries”; and
- The recommendations for ensuring ENC consistency between neighbouring producing countries, as in Annex A of Publication S-65
- and other main principles such as those outlined at Annex B.

It is suggested that the responsibility for the development and maintenance of this document be assigned to CHRIS (CHRIS to be replaced by HSSC when HSSC is established) and that this item be included in the revision of S-65 or as an alternative, in a new IHO (M-10?) dedicated publication in order to limit the numerous and redundant cross-references.

Action required by WEND

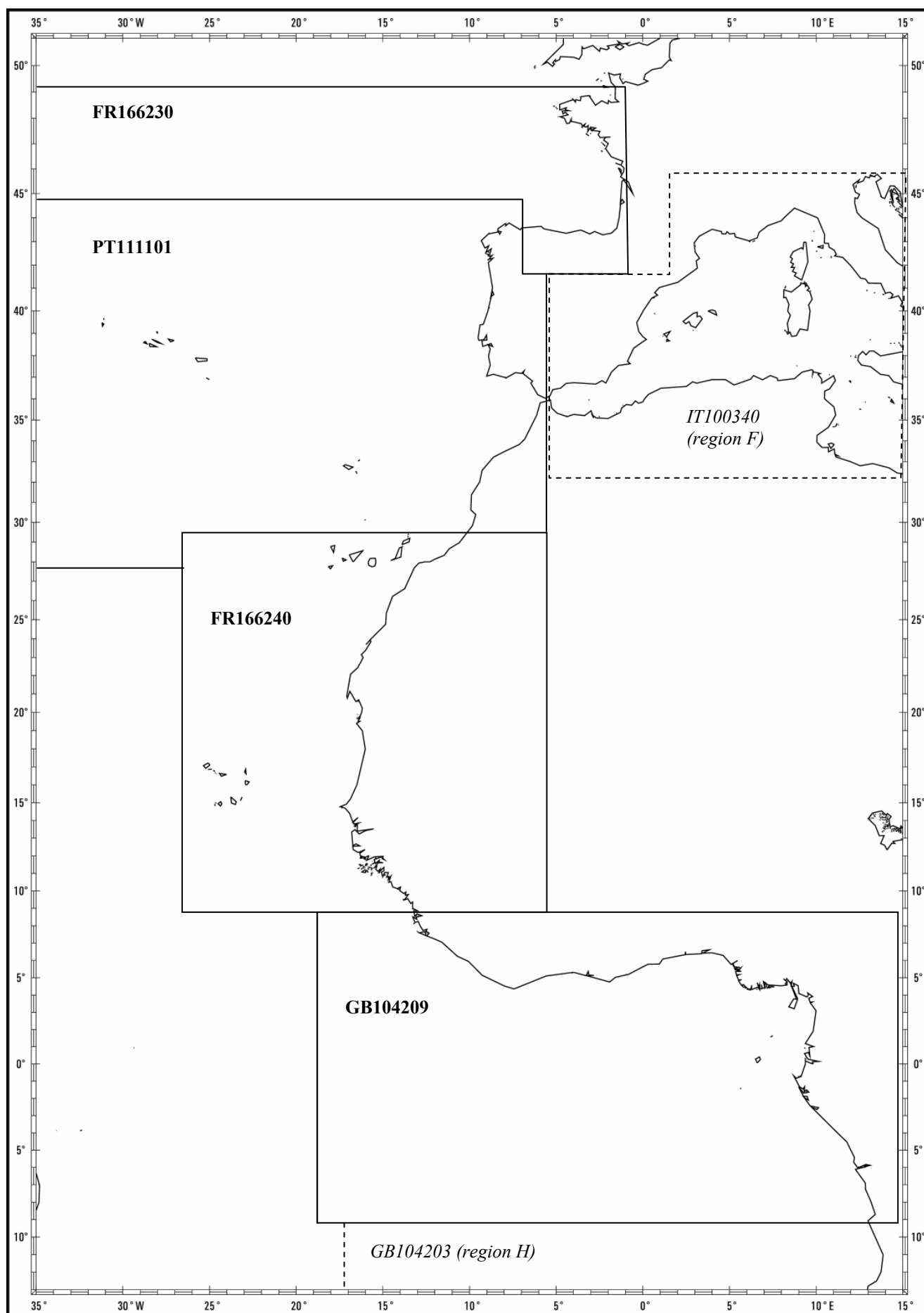
The WEND committee is invited to:

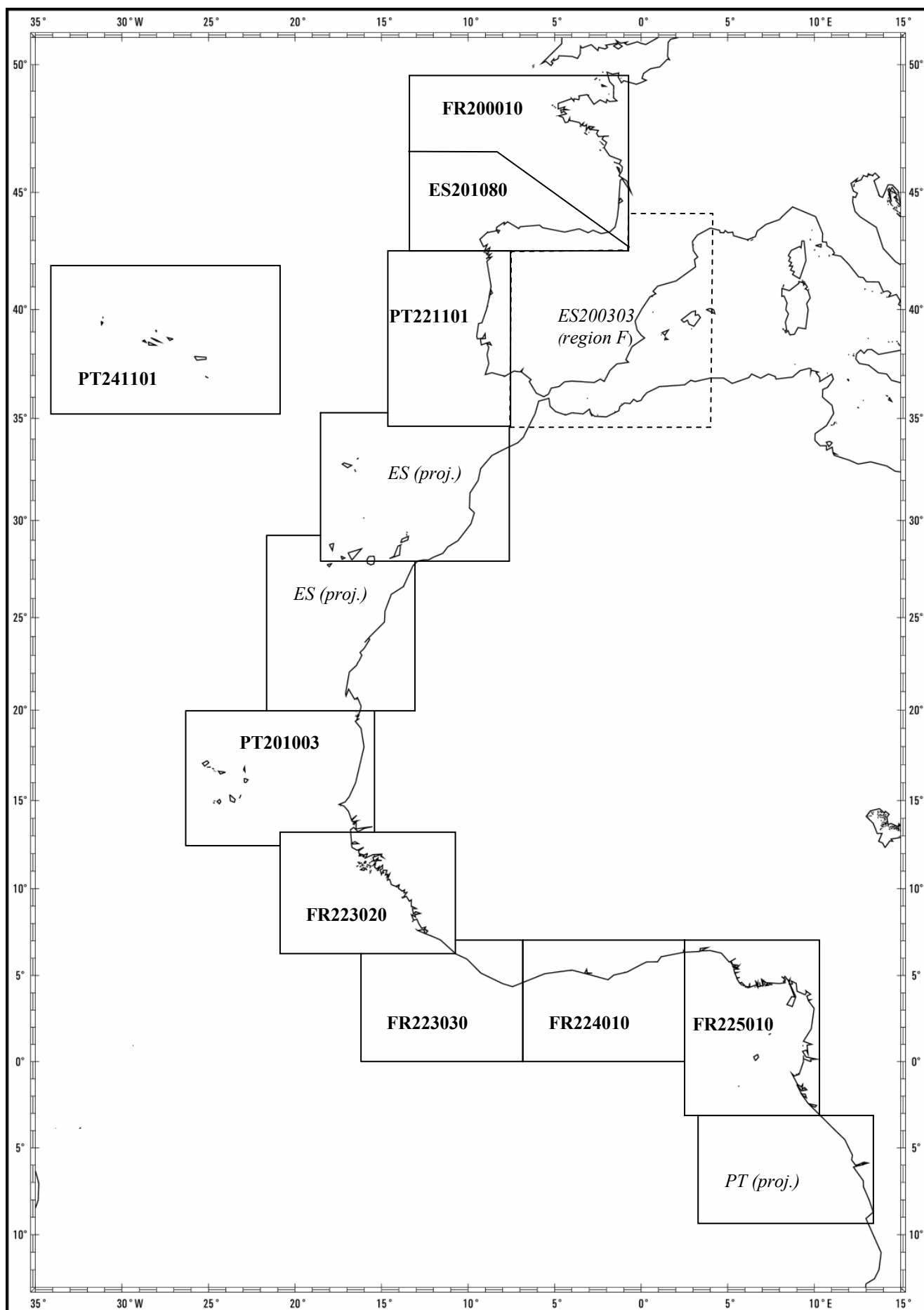
- a. consider recommendation 1 and, if agreed, invite IHB to prepare an appropriate letter to RHCs and INT chart coordinators.
- b. consider recommendation 2 and, if agreed, invite CHRIS to define the best of the two options (S-65 or M-10) and include the development of the guidelines based on Annex B in its work programme item related with the revision of S-65.
- c. invite IHB to consider the interface with the development of IHO Chart Catalogue on the web.

Annex A – Example of the EAtHC small scale ENC schemes in INT region G

ENC in navigational purpose “Overview”
Standard scale : 1:3 000 000

ENC de catégorie « Vue d’ensemble »
Échelle standard : 1:3 000 000





ENC No.	Producer	Corresponding paper chart (if applicable) INT No.	ENC available?	Publication		Scale
				Year	Edition number	1:
FR166230	FR	103	yes	2007	1	3 000 000
PT111101	PT	<i>N/A</i>	yes	2007	4	1 500 000
FR166240	FR	104	yes	2007	1	3 000 000
GB104209	GB	209	yes	2007	4	3 000 000
FR200010	FR	1080	yes	2006	1	700 000
ES201080	ES	1080	yes	2005	1	700 000
PT241101	PT	1089	yes	2004	1	700 000
	<i>ES</i>	<i>1082</i>	<i>no</i>	<i>Proj.</i>		<i>700 000</i>
	<i>ES</i>	<i>1083</i>	<i>no</i>	<i>Proj.</i>		<i>700 000</i>
PT201003	PT	1084	yes	2007	1	700 000
FR223020	FR	1085	yes	2005	1	700 000
FR223030	FR	2086	yes	2005	1	700 000
FR224010	FR	2087	yes	2005	1	700 000
FR225010	FR	2088	yes	2005	1	700 000
	<i>PT</i>	<i>2089</i>	<i>no</i>	<i>Proj.</i>		<i>700 000</i>

Annex B - Outline of additional guidelines for the preparation and maintenance of regional ENC schemes

Regional ENC schemes for usage bands 1, 2 and 3 should be drafted in accordance with the following guidelines:

- the preparation and maintenance of regional ENC scheme should be a standing item on the agenda of RHC Conference;
- the preparation and maintenance of regional ENC schemes be assigned to the INT chart coordinator in the region;
- production responsibilities should be consistent with the WEND principles and guidance (see annex to TR K2.19);
- INT paper chart scheme should be used as a first basis;
- mechanisms to avoid discrepancies and overlaps between adjacent ENC cells should be developed in consultation between the producers and the appropriate RENC if applicable;
- mechanisms to ensure consistency with the adjacent regions should be developed in consultation with adjacent RHCs where applicable;
- formal approval of the schemes should be sought in a plenary session of RHC Conferences.
- agreed schemes should be made publicly available to RHCs (incl. adjacent RHCs), IHB and RENCs through an official IHO publication.

Annex C - IHB File N° S3/8152/CHRIS dated 21 November 2007 (without Annexes)

Letter distributed to RHC Chairpersons and INT Chart Coordinators

(Distribution list attached)

IHB File N° S3/8152/CHRIS

21 November 2007

Dear Colleagues,

The most recent extraordinary meeting of the WEND¹ (X-WEND) and the 19th meeting of CHRIS² which followed shortly afterwards, considered a paper by the IHB drawing attention to the inconsistent allocation of Navigation Purpose (NavPurpose) codes to so-called "small scale ENC's". In particular, there are significant conflicts in certain areas of the World, where NavPurpose 2 ENC's have been produced using smaller compilation scale values than NavPurpose code 1 ENC's of the same area. This is illustrated and explained in the accompanying CHRIS paper at Annex A to this letter.

Both the X-WEND and CHRIS/19 considered that this situation needs to be addressed and that would be best coordinated on a regional basis. Furthermore, the committees agreed that such coordination would be best managed through either the INT Chart Coordinators and/or through the Regional Hydrographic Commissions.

As a result, CHRIS/19 invited the IHB to seek the cooperation of the chairs of RHCs and the INT chart coordinators. You are therefore asked to consider this matter and to take appropriate action, keeping the IHB informed, so that the CHRIS and WEND are able to monitor the situation.

On behalf of the Directing Committee
Yours sincerely,



Captain Robert WARD
Director

Annex A: CHRIS paper
Annex B: Distribution List

¹ IHO Committee on the worldwide ENC Database

² IHO Committee on Hydrographic Requirements for Information Systems