

**7<sup>TH</sup> MEETING OF THE WORLDWIDE ENC DATABASE (WEND) WORKING GROUP  
(WENDWG-7)**

**Washington DC, USA, 31 January-2 February 2017**

**FINAL MINUTES**

- Notes:**
- 1) *The numbering of sections is the same as in the agenda, even if the order of the items was not exactly followed in the discussions.*
  - 2) *The actions are listed in Annex C only. When reading the text in the main part of the report, click on the hyperlink to view the associated action if any. Then, when in Annex C, press **ALT+ left arrow** to get back to the original section in the main part of the minutes.*
  - 3) *All documents and related presentations referred to in these minutes are available from the WENDWG page of the IHO website ([www.iho.int](http://www.iho.int) > Committees & WGs > IRCC > WENDWG > WENDWG7).*

**Annexes:**

- [Annex A](#) *List of Participants*
- [Annex B](#) *Final draft IHO Resolution “Elimination of overlapping ENC data in areas of demonstrable risk to the safety of navigation”*
- [Annex C](#) *List of Actions&Decisions arising from WENDWG-7*

**1. Opening and Administrative Arrangements**

<i>Docs:</i>	<a href="#">WENDWG7-01A</a>	<a href="#">List of Documents</a> (IHO Sec.)
	<a href="#">WENDWG7-01B</a>	<a href="#">List of Participants</a> (IHO Sec.)
	<a href="#">WENDWG7-01C</a>	<a href="#">WENDWG Membership</a> (IHO Sec.)
	<a href="#">WENDWG7-01D</a>	<a href="#">Terms of Reference for WENDWG</a> (IHO Sec.)

Jamie McMichael-Phillips (UK), Chair of the WENDWG, opened the meeting and welcomed the participants. On behalf of all the delegates, he expressed his thanks to John Nyberg and his staff from the Office of Coast Survey of the National Oceanic and Atmospheric Administration (NOAA), for hosting this meeting.

Twenty-one delegates from 12 Member States (Argentina, Brazil, Canada, China, Finland, France, Italy, Japan, Norway, Turkey, United Kingdom, United States) representing eleven Regional Hydrographic Commissions (ARHC, BSHC, EAHC, EAHC, MACHC, MBSHC, NHC, NSHC, SAIHC, SWAtHC, USHC), the Chairs of the IC ENC Steering Committee and PRIMAR Advisory Committee and the directors of both RENCs attended the meeting. Director Mustafa Iptes and Assistant Director Yves Guillam (Secretary) represented the IHO Secretariat.

In his opening address, the Chair gave a general overview of the positive achievements since the 1<sup>st</sup> meeting of the WENDWG in Wollongong, Australia, in 2011. He informed the participants that the meeting was the last opportunity before the 1<sup>st</sup> Session of the IHO Assembly (IHO-A1) in April 2017 to deliver key messages. Director Mustafa Iptes highlighted again the importance of the activities of the WENDWG for the IHO and took as an example the important actions assigned to the WENDWG by the Inter-Regional Coordination Committee (IRCC) at its 8<sup>th</sup> meeting in 2016. He also commended the RENCs for their efficient and continuing support to the IHO in general, and to the IHO Secretariat in particular. All participants agreed though, that this 7<sup>th</sup> meeting was the right time to look at the future of this working group so recommendations for its continued existence could be reviewed at the next meeting of the IRCC.

The Secretary indicated that some Regional Hydrographic Commissions still needed to provide their updates to the WENDWG Membership List. Following the entry into force of the amendments to the IHO Convention, it was noted that editorial changes to the Terms of Reference of the WENDWG will need to be submitted to IRCC for endorsement.

**Outcome:**

The WENDWG noted the need to keep the list of WENDWG Members updated (Representatives of RHCs in particular) and to update the WENDWG TORs.

→ Actions [WENDWG7/01](#), [WENDWG7/02](#)

## 2. Approval of Agenda and Timetable

Doc: WENDWG7-02A [Agenda and Timetable](#) (IHO Sec.)

**Outcome:**

- The WENDWG approved the agenda and agreed to reconsider the issue of the continuity of its activities, in accordance with Art. 4.4. of the TORs, at the end of the meeting.

## 3. Matters Arising from Minutes of 6<sup>th</sup> WENDWG Meeting

Docs: WENDWG7-03A [Minutes of WENDWG6](#) (IHO Sec.)  
WENDWG7-03B [Status of Actions List from WENDWG6](#) (IHO Sec.)

The IHO Sec. listed the actions and decisions from the last meeting and provided short comments on their status. Most of them had been, either implemented or completed.

**Outcome:**

The WENDWG noted the status of actions and agreed to consider some pending actions under the relevant agenda items.

## 4. Review of progress made on the work items of the WENDWG 2016-17 Programme of Work

### 4.1 Overlapping Issues and ENC Coverage

Docs: WENDWG7-04.1A1 [Report on a pilot project using OEM tools \(SG\)](#)  
WENDWG7-04.1A3 [Impact of overlapping ENCs in ECDIS - Presentation](#)  
WENDWG7-04.1B1 [IC-ENC's Overlapping Data Policy & Reporting: Overlapping Data Policy – Sample Tracker Sheet Extract – SAIHC Overlap Report – Presentation](#)  
WENDWG7-04.1B2 [New \(draft\) Ed. 3.0.0 of S-11 Part A \(Guidance for the Preparation and Maintenance of INT Chart and ENC Schemes\)](#)  
WENDWG7-04.1F1 [Global ENC Coverage Report \(UK\) – Presentation](#)  
WENDWG7-04.1F2 [Risk Assessment Methodologies and Existing Gaps](#)  
WENDWG7-04.1F3 [List of Ports and Mooring Database: US NGA Pub. 150 \(\[small\]\(#\), \[medium\]\(#\), \[large\]\(#\) ports\) used on the IHO ENC Catalogue.](#)

One of the main objectives of the WENDWG is to monitor the application of the WEND Principles by the Hydrographic Offices and the Regional Hydrographic Commissions (RHCs). This encompasses the monitoring of ENC coverage and the efforts made to progress with the elimination of overlapping ENCs.

Under this agenda item, IC-ENC reported on the actions undertaken since the last WENDWG meeting and presented the analysis supported by a CIRM's survey on ECDIS behaviours when facing overlapping ENCs (same usage bands ENCs covering the same area, or same compilation scale with two different usage bands). As already reported by the IHO for the 4th Session of the IMO Sub-Committee on Navigation, Communications and Search and Rescue (Doc. [NCSR 4/25/5](#) refers), it was also noted by IC-ENC that the entry into force of Edition 4.0 of the Presentation Library might increase user feedbacks on this important issue. IC-ENC also reminded that ECDIS were designed on the WEND Principles so that ENC Producers would not release overlapping ENCs. In other words, the problem had to be solved at source... and this statement was taken for grant as the outcome of the pilot project led by Singapore (using OEM tools) is not known yet<sup>1</sup>.

IC-ENC also reported on the improvements of its overlapping data policy as approved in December 2016 by its Steering Committee. The new set of actions developed by IC-ENC, such as including the RHC ENC Coordinators in the distribution list of IC-ENC's risk assessment reports for instance, was welcome. Turkey even suggested that this new policy should be presented to the IRCC. It was decided to experiment the new policy for the forthcoming conference of the MBSHC and its Region F ICCWG meetings.

The Secretary reported on the new Edition of the S-11 Part A which, now, includes a specific section on the preparation and maintenance of *ENC schemes*. If and where applied by Regional Hydrographic Commissions, this should also participate in the reduction even elimination of overlapping ENCs. He also reported on the improvements made to the IHO ENC Catalogue with the addition of ports layers derived from the US NGA Publication 150. With regard to ENC coverage, participants were invited to seek feedback on the list of ports from their RHCs.

The participants were informed on the ENC coverage and the list of existing overlapping ENCs, by charting region/RHC, thanks to the composite report provided by UK. Representatives of the RHCs were invited to consider this report at their respective meetings.

**Outcome:**

- The WENDWG commended the presentations made by IC-ENC and noted the report provided by UK.
- Several actions were agreed to improve ENC coverage and reduce overlapping ENCs.  
→ Actions [WENDWG7/04](#), [WENDWG7/05](#), [WENDWG7/06](#),  
[WENDWG7/07](#), [WENDWG7/08](#)

**4.2 IHO Performance Indicators, IHO ENC Catalogue – Preparation of 1st Session of IHO Assembly, Support to IRCC Report**

- Docs:* WENDWG7-04.2F4 *Performance Indicators for 2018-20 (IHO Sec.)*  
WENDWG7-04.2H1 *Development of the IHO ENC Catalogue (IHO Sec.)*  
WENDWG7-04.2 INF1 [WENDWG Report to IHO-A1](#) (WENDWG Chair)

Since the discussion on the Performance Indicators (PIs) related to the WENDWG activities held at the WENDWG6 (Doc. WENDWG6-04.4F4 refers), IRCC had decided to put on hold their revision, waiting for the outcome of the forthcoming IHO-A1 on the proposal for a Revised IHO Strategic Plan. Director Mustafa Iptes gave a short brief on the proposal that will be considered by the IHO Assembly

<sup>1</sup> No report available at the date of the WENDWG-7 meeting.

and introduced the indicators related to the WENDWG activities that are suggested to be kept in the future.

The meeting agreed on the simplification of the number of indicators as proposed, and also recommended to focus them on ENC usage bands 1 to 3 in future, since bands 4 to 6 are usually confined to national rather than regional ENC coverage.

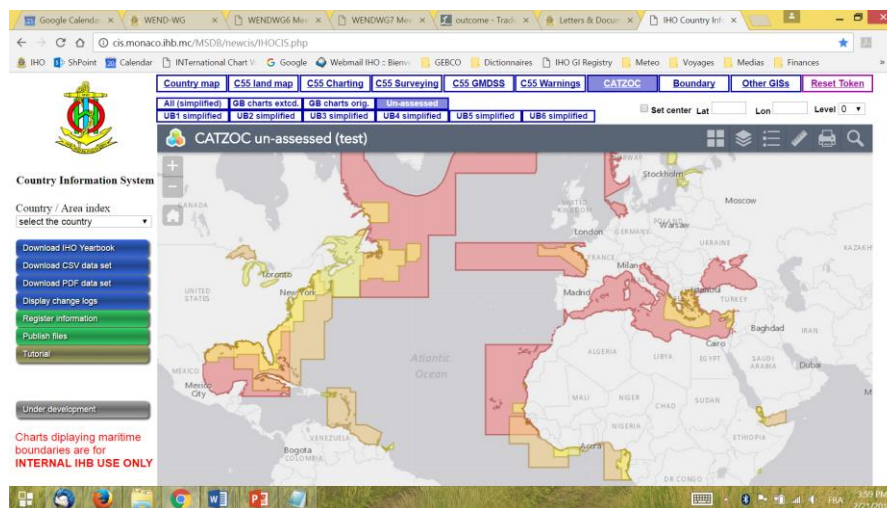
The Chair provided a summary of his draft report to be considered by the IRCC Chair for the IHO-A1.

**Outcome:**

- The WENDWG prepared some recommendations for IRCC on the proposed Strategic Performance Indicators related to WENDWG activities that will be considered by the IHO-A1.

→ Action [WENDWG7/11](#)

The Secretary gave a live demo of the improvements on the IHO ENC Catalogue made by the IHO Secretariat since 2016. Following the provision of CATZOC data by the RENCs, with the approval of ENC Producers, he also briefed the participants on the experimentation in progress at the IHO Secretariat for making composite geospatial reports of the areas around the world where “un-assessed” CATZOC values are encoded in ENCs. This presentation was well received as a potential useful additional tool to be used by RHCs for making risk assessment analysis.



*Experimentation at the IHO Secretariat for displaying “un-assessed” CATZOC values in a composite report (here for ENCs, usage band 1 to 3 only)*

**Outcome:**

- The presentation of the IHO Secretariat on the experimental development of composite CATZOC reports (of “un-assessed” values) was considered to be very promising by RHCs representatives.

→ Action [WENDWG7/09](#)

In order to draw the attention of the IHO-A1 to some important issues, an ad hoc drafting group (France, Italy, Norway) prepared the key messages (see below) that could be included in the oral presentation of the Chair of the IRCC.

## Overlapping ENC

- + Raising concern over slow progress (see table)
- + More than ever an issue for IHO (as raised at IMO level –NCSR-4)
  - ECDIS presentation library 4.0 : permanent and persisting indication "overlap"
  - Unpredictability of ECDIS behaviour
  - If IHO does not handle, others will (OEM, VARs...)
- + Proposed way forward:
  - RENCs to consider supporting RHCs, where possible, in the provision of overlap overview and initial risk assessment
  - RHCs to identify overlaps that are navigationally significant and report back annually to IRCC
  - RHCs and IHO MS to implement new draft IHO Resolution on the "Elimination of navigationally significant ENC overlapping issues" (when endorsed by IRCC/Council)

*The WENDWG's proposed key messages to the IHO-A1*

**Outcome:**

- The WENDWG drafted a proposal for some key messages to be delivered at the IHO-A1 by the IRCC Chair.

→ Actions [WENDWG7/03](#), [WENDWG7/10](#)

### 4.3 RENC Harmonization and Distribution

Docs: WENDWG7-04.3C2 Report on Harmonization Issues ([PRIMAR Report 2016](#), [IC-ENC Report 2016](#))  
 WENDWG7-04.3D1 [RENC Update of the Data Flow Diagram](#)

In addition to their annual reports, the two RENCs provided a short summary of the outcome of the Joint RENC meeting that was held in Washington DC, during a morning session, prior to the WENDWG-7 meeting.

After five years of fruitful co-operation and harmonization, it is considered that the two RENCs have now entered a period of maturity and stability. They welcomed the RENC description documents, the joint presentations made at RHCs' meetings, the annual face-to-face meeting, as well as regular communications on management, technical and distribution issues. Director Mustafa Iptes commended the RENCs for their support to hydrographic offices ensuring data quality control and capacity building, and also in relation with end-user service providers. He also highlighted the fact that the RENCs are a major component of the IHO toolbox in particular for WEND activities.

The RENCs suggested that a 6-month cycle for updating the diagram of ENC data flow producers-RENCs-distributors would be more suitable than the one-year periodicity. Welcoming the information provided by the RENCs to establish procedures and guidelines for RENCs to assess the "significance" of any particular instance of overlapping ENC coverage, and to develop further the possibility of exchanging ENC data between RENCs for harmonization purposes, and quality control in general, the WENDWG raised some concerns for the ENC that are not distributed through a RENC yet (black box).

**Outcome:**

- The WENDWG welcomed the proposals made by the RENCs to develop further the possibility of exchanging ENC *data* exchange for ensuring quality control in general (overlapping risk assessment in particular).
- All ENC data (incl. “exclusive” ENCs) should be made available to the RENC for ensuring quality control.

→ Actions [WENDWG7/12](#), [WENDWG7/13](#),  
[WENDWG7/14](#)

**4.4 The Full Implementation of the WEND Principles – Report by RHCs’ Reps on the implementation of ENC Schemes (in accordance with Action IRCC8/13)**

Docs: WENDWG7-04.4J1 Report by RHCs: [ARHC](#), [BSHC](#), [EAHC](#) & [MBSHC](#), [MACHC](#),  
[NSHC](#), [SAIHC](#), [SWAHC](#)

Action IRCC8/13 states “RHC Chairs to work to reduce overlaps by applying the WEND Principles in defining approved ENC schemes.”

As a consequence, some representatives of the RHCs reported on the progress made on the implementation of ENC schemes in their charting region. They were also informed by the IHO Secretariat that IHO Member States will soon be requested to approve<sup>2</sup> a new Edition of S-11 Part A - *Guidance for the Preparation and the Maintenance of International (INT) Charts and ENC Schemes* (See §4.1 above). The inclusion of ENC schemes in the guidance is intended to reinforce the need to implement ENC scheming at the regional level. The situation varies significantly from one region to another and it is currently unclear if there is a common understanding on this matter, notwithstanding the fact that the establishment of regional ENC schemes has been designated by the IRCC and monitored over the last five years through the IHO performance indicators associated with the IHO Strategic Plan. Most of the RHCs have a pragmatic approach to address this issue.

Based on the existing coverage for ENC at usage bands 1 to 3, the status of the indicator (WPI 21) for the percentage of agreed/available ENC schemes at the end of Dec. 2016 is 82% for all the charting regions.

The WENDWG will continue to monitor the progress made on the establishment of approved ENC schemes. The Secretary also indicated that it would be useful for the RHCs to anticipate the possible impact of the development of S-101 ENCs in the future, for instance if and where some ENC producers intend to take this opportunity to move their former S-57 ENC schemes (derived from INT charts) to grid schemes.

**4.5 IRCC-8 Decisions and Actions that impact WENDWG (IRCC8/14: draft an IHO Resolution to address the overlapping issues and report to the IRCC)**

Docs: WENDWG7-04.5A [List of IRCC-8 Decisions and Actions in relation to WENDWG](#) (IHO Sec.)

WENDWG7-04.5B [Draft IHO Resolution to address ENC overlapping issues](#) (IHO Sec.)

Director Mustafa Iptes and the Secretary gave a short summary of the decisions and actions from IRCC-8 affecting the WENDWG.

Some ENC producer countries, who already include Temporary & Preliminary Notices to Mariners (T&P NtMs) in their ENC updates, argued that decisions made at IRCC-8 relating to the Admiralty Information Overlay service provided by the UKHO as part of its AVCS service, had not been implemented yet. As a follow-up of Decision IRCC8/14, the UK representative agreed to report on this bilateral issue.

<sup>2</sup> Post-meeting note: IHO CL 19/2017 refers.

Based on a preliminary proposal drafted by the IHO Secretariat (Doc. WENDWG7-04.5B), an ad hoc drafting group was established during the meeting to finalize the draft of a new IHO Resolution seeking to limit overlapping ENC coverage issues when safety of navigation is at stake. This new proposed IHO Resolution aims to clarify and consolidate the procedure which already exists in the *Guidelines for the Implementation of the WEND Principles*. It will be submitted to IRCC9 in June 2017 for endorsement. The final draft of this Resolution is provided in [Annex B](#).

**Outcome:**

- The WENDWG considered the decisions and actions arising from IRCC-8 and prepared the follow-up actions.

→ Actions [WENDWG7/15](#), [WENDWG7/16](#), [WENDWG7/17](#)

## 5. Review of Information Papers

Docs: WENDWG7-05A *List of HSSC-8 Decisions and Actions in relation to WENDWG Activities (IHO Sec.)*  
WENDWG7-05B *Report on monitoring of ECDIS issues by the IHO (Doc. NCSR 4/27/5) (IHO Sec.)*

The Secretary gave a short summary of the decisions and actions from HSSC-8 of interest to the WENDWG.

## 6. Drafting Session

The outcome of the ad hoc drafting groups (key messages to IHO-A1, data exchange between RENCs, draft IHO Resolution for eliminating overlapping ENCs) were reviewed during the final morning session of the WENDWG-7 meeting as reported in the previous sections of this report.

## 7. Review and update of the WENDWG Programme of Work for 2017-18

Doc: WENDWG7-08A [WENDWG Programme of Work 2016-17 as approved at IRCC-8](#)  
(Chair/Sec)

**Outcome:**

- The update of the WENDWG Programme of Work for 2017-18 was agreed and the work items updated in accordance with the actions raised during the meeting.

- Decision was made to recommend to the IRCC that the WENDWG continues its activities.

→ Action [WENDWG7/18](#)

## 8. Review of the WENDWG7 Action List

**Outcome:**

- The participants agreed on the list of decisions & actions during the review made at the end of the meeting.

## 9. Any other business

### Outcome:

- The participants agreed that the WENDWG Chair, in accordance with Art. 4.2 of the TORs and the decision made at the WENDWG-6 meeting, should consider the possibility of inviting expert contributors at the next meeting in 2018.

→ Action [WENDWG7/19](#)

## 10. Next Meeting Dates and Venue

### Outcome:

- The WENDWG welcomed the offer made by Argentina to host the next meeting (WENDWG-8) back-to-back with the 3<sup>rd</sup> Joint RENC-IHO Sec. meeting, from 20 to 22 March 2018.

→ Action [WENDWG7/20](#)

The Chair, on behalf of the participants, expressed his sincere gratitude to the Office of Coast Survey of NOAA and its staff for the great support provided to the meeting. He thanked the participants for their active participation and the progress made by the WENDWG in general as shown in the review of former actions and work items.



**List of Participants**  
(Based on the WENDWG Membership List)

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<sup>3</sup> RHC : Regional Hydrographic Commission

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**Final Draft IHO Resolution as agreed at WENDWG-7**  
***Elimination of overlapping ENC data in areas of demonstrable risk to the safety of navigation***

[Draft] IHO Resolution xx/2017 – *Elimination of overlapping ENC data in areas of demonstrable risk to the safety of navigation*

Elimination of overlapping ENC data in areas of demonstrable risk to the safety of navigation	xx/2017	IHO CL xx/2017 (after endorsement at IRCC-9 and IHO Council 1)	
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1. It has been reported that overlapping ENC data, when used in ECDIS equipment, may lead to unpredictable behaviors in at least the following cases:
  - overlapping data occurring in the same usage band (navigational purpose code);
  - overlapping data occurring in ENC cells in different usage bands (navigational purpose codes) but using the same compilation scale.
2. Hydrographic Offices, ENC Producers, and Regional Hydrographic Commissions should take appropriate measures to eliminate all overlapping ENC data, particularly in areas of demonstrable risk to the safety of navigation.
3. While RENCs and End-User Service Providers may develop certain distribution policies to help prevent such overlapping data from passing through the ENC distribution chain, the safety of mariners at sea should not rely on these mechanisms alone, as if they were the primary solution.
4. In addition to the existing procedures related to overlapping ENC data described in:
  - IHO Resolution 1/1997 as amended (*WEND Principles*) and its Annex (*Guidance for the Establishment of ENC Production Boundaries*);
  - the *Guidelines for the Implementation of the WEND Principles*, as endorsed by the 11<sup>th</sup> WEND Committee Meeting in 2008 and amended in 2014;
  - S-11 Ed. 3.0.0 - *Guidance for the Preparation and Maintenance of International (INT) Chart and ENC Schemes and Catalogues of INT Charts and ENCs*;
 and

- S-57 - *IHO Transfer Standard for Digital Hydrographic Data* -, Appendix B.1, Annex A - *Use of the Object Catalogue for ENC* (Ed. 4.0.0, June 2014) - clause 2.1.8;

Hydrographic Offices, ENC Producers, and Regional Hydrographic Commissions should seek to:

- identify overlapping ENC data in all areas of significance to navigational safety within their areas of production or control;
- prevent the increase of any such cases;
- resolve all of those cases where a demonstrable risk to the safety of navigation exists, through discussion and negotiation between the relevant ENC producers, as soon as possible, and at least within one year of any such overlapping ENC data being reported or identified.

5. Notwithstanding the responsibilities of concerned ENC Producer Member States to take early action to notify the mariner of possible risks to the safety of navigation, in any case where the elimination of overlapping ENC data cannot be resolved and its continued existence presents a demonstrable risk to the safety of navigation, the procedures described in section 1.7 of the *Guidelines for the Implementation of the WEND Principles* should be applied. The timescale to resolve should be within one year of the matter coming to the attention of the concerned ENC Producer Member States. Section 1.7 states:

*“1.7. The S-57 Standard allows minimal overlap of ENC data within usage bands. ECDIS systems will operate unpredictably in areas where significant overlapping ENC coverage is present, raising a potential navigational risk to end-users. Where overlapping coverage exists the Producer Member States should recognize their responsibility and take the necessary steps to resolve the situation. To ensure that overlapping ENC data coverage is resolved to the satisfaction of the Regional Hydrographic Commission (RHC), the following procedures should be undertaken in sequence until there is satisfactory resolution:*

*1.7.1 The RHC will identify and assess ENC coverage within their area of responsibility and highlight those areas where there are navigationally significant differences between the overlapping ENCs. The assessment of what may be navigationally significant should be guided by the best practices in this regard, acknowledged and approved by the IRCC. The RHC may seek the assistance of a Regional ENC Coordination Centre (RENC) to assist in development of this assessment and should take a proactive approach with the ENC Producer Member States, to resolve overlap issues within the region.*

*1.7.2 The RHC will keep the IRCC Chair and the IHB informed, through the annual reporting process, about overlaps in ENC coverage, their associated risks and related action(s) taken by the coastal States and/or the Producer Member State. Appropriate action by the IHB should be initiated to inform the International Maritime Organization of the situation with details of the desired actions to be taken by the Government(s) of the involved coastal State(s) and the risks associated with inaction.*

*1.7.3 Where urgent action is required to alert mariners to navigationally significant overlap issues then the RHC, through the concerned Producer Member States, should initiate promulgation of appropriate warnings directly with the regional NAVAREA coordinator and other local navigational warning protocols, while keeping the IRCC Chair and IHB informed.”*

## LIST OF ACTIONS&amp;DECISIONS FROM WENDWG-7

AGENDA ITEM/WORK IEM	SUBJECT	ACTION No.	ACTIONS&DECISIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 2 Feb. 2017)
<b>1. Opening and Administrative Arrangements</b>					
	WENDWG Membership	WENDWG7/01	<b>IHO Sec.</b> to update the WENDWG Membership List.	<b>End of March 2017</b>	
	TORs	WENDWG7/02	<b>IHO Sec.</b> to update the WENDWG TORs to align with the new IHO Convention for being endorsed at IRCC-9.	<b>15 April 2017</b>	
<b>4. Review of progress made on the work items of the WENDWG Programme of Work 2016-17</b>					
<b>4.1 Overlapping Issues and ENC Coverage</b>					
	IRCC Report to IHO-A1	WENDWG7/03	<b>WENDWG Chair</b> to amplify to the IRCC Chair that overlapping ENC issues should be highlighted in his verbal presentation to the IHO-A1 (using extracts from the IHO Report to NCSR4).	<b>End of February 2017</b>	See WENDWG7/10
	RENCs Overlapping Policy	WENDWG7/04	<b>WENDWG</b> endorsed the IC-ENC overlapping policy as a first step to identify navigationally significant overlaps and <b>IHO Sec</b> to make this policy available on the WENDWG Repository to be considered <b>by RHCs</b>	<b>WENDWG-8</b>	
	MBSHC Overlaps	WENDWG7/05	<b>IC-ENC</b> in liaison with Region F Coord invited to prepare a report on overlapping issues for the MBSHC as a trial.	<b>End of March 2017</b>	
	Overlaps Statistics	WENDWG7/06	<b>RHCs</b> invited to consider the report made by the UK representative to the WENDWG-7 on ENC coverage	<b>When RHCs meet</b>	

AGENDA ITEM/WORK IEM	SUBJECT	ACTION No.	ACTIONS&DECISIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 2 Feb. 2017)
	List of Ports	WENDWG7/07	<b>WENDWG Chair</b> to report to IRCC that the List of Ports is now available on the IHO ENC Catalogue (based on the NGA NP 150). <b>HOs</b> invited to report to NGA (Gerald Walter) if inconsistencies need to be corrected	<b>Permanent</b>	
	ENC Schemes	WENDWG7/08 (former WENDWG6/06)	<b>RHCs</b> invited to define and adopt ENC Schemes (as it is done for INT Charts Schemes) and provide basic metadata to the IHO SEC. and <b>IHO Sec.</b> to consider including a layer of “Approved” ENC Schemes to the IHO ENC Catalogue or as an extension of the INT Web Chart Catalogue.	<b>IRCC-9</b>	
<b>4.2 IHO Performance Indicators, IHO ENC Catalogue – Preparation of 1<sup>st</sup> Session of IHO Assembly, Support to IRCC</b>					
	CATZOC	WENDWG7/09	<b>RENCs</b> invited to seek the approval of their members for the IHO Secretariat to brief with composite CATZOC reports at RHCs meetings <b>WENDWG Chair</b> to report at IRCC-9 on this issue seeking further endorsement	<b>End of March 2017</b>  <b>15 April 2017</b>	
	IRCC Report to IHO-A1	WENDWG7/10	<b>WENDWG Chair/Sec</b> to send the input on overlapping ENCs to the IRCC Chair/Sec for the IRCC presentation at IHO-A1	<b>End of February 2017</b>	Action WENDWG7/03 refers
	Performance Indicators	WENDWG7/11	<b>WENDWG Chair</b> to recommend in his report to IRCC that the Strategic PI (SPI 9, if retained by the IHO-A1) related to ENC Schemes is limited to UB1, UB2 and UB3 and to delete SPI 2 (as growth in ENC coverage is not relevant anymore)	<b>15 April 2017</b>	
<b>4.3 RENC Harmonization and Distribution</b>					

AGENDA ITEM/WORK IEM	SUBJECT	ACTION No.	ACTIONS&DECISIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at <b>2 Feb.</b> <b>2017</b> )
	ENCs not distributed through a RENC yet	WENDWG7/12	In order to make “exclusive” ENCs accessible through the RENC system for distribution, <b>UKHO</b> invited to give a timeline on when that will happen.  <b>WENDWG</b> to monitor the progress made on an annual basis (ENC Data Flow diagram).	<b>1 March 2017</b>  <b>WENDWG-8</b>	
	Quality control, risk assessment	WENDWG7/13	<b>WENDWG Chair</b> to report to IRCC that all Produced ENC <u>data</u> (incl. “exclusive”) must be made available to every RENC for them to ensure quality control (overlapping checks, risk assessment, etc).	<b>IRCC-9</b>	
	Quality control, risk assessment	WENDWG7/14	<b>IC-ENC</b> and <b>PRIMAR</b> invited to develop further the possibility of exchanging ENC <u>data</u> for harmonization purposes, improving overlapping risk assessment and quality control in general.	<b>WENDWG-8</b>	
<b>4.5 IRCC-8 Decisions and Actions that impact WENDWG (IRCC8-14: draft an IHO Resolution to address the overlapping issues and report to the IRCC)</b>					
	AIO	WENDWG7/15	<b>UKHO</b> invited to report to France, Norway, Sweden and Finland on why AIO still exist on their ENCs and has not been resolved bilaterally iaw Decision IRCC8/14	<b>1 March 2017</b>	
	Overlapping Issues	WENDWG7/16	<b>WENDWG Chair</b> to submit the draft IHO Resolution on overlapping issues, in his report to IRCC-9 for endorsement	<b>15 April 2017 (IRCC9 submission deadline)</b>	
	Overlapping Issues	WENDWG7/17	<b>IHO Sec</b> to withdraw the List of HO Contact Person Regarding ENC Overlap Issues from the IHO website >...> ENC Availability.	<b>End of February</b>	Decision
<b>7. Review and update of the WENDWG Programme of Work</b>					

<b>AGENDA ITEM/WORK ITEM</b>	<b>SUBJECT</b>	<b>ACTION No.</b>	<b>ACTIONS&amp;DECISIONS (in bold, action by)</b>	<b>TARGET DATE/EVENT</b>	<b>STATUS (at 2 Feb. 2017)</b>
	IRCC-9 Preparation	WENDWG7/18	<b>WENDWG Chair</b> to submit the WENDWG report to IRCC-9, including the WENDWG 2017-18 Programme of Work and recommend to IRCC-9 in accordance with Article 4.4 of WENDWG TORs, that the WENDWG is kept <b>active</b> .	<b>By 15 April (IRCC9 submission deadline)</b>	
<b>9. Any other business</b>					
	Participation of Stakeholders	WENDWG7/19	<b>WENDWG Chair</b> to consider inviting stakeholders for the meeting in 2018	<b>End of November 2017</b>	
<b>10. Next meeting dates and venue</b>					
	WENDWG-8 and RENCs Co- operation	WENDWG7/20	<b>WENDWG-8</b> and the Joint RENCs meeting will be held in Buenos Aires (tbc), Argentina	<b>20-22 March 2018</b>	