

IHO-A1

REPORT OF THE WORLDWIDE ENC DATABASE WORKING GROUP (WENDWG)

1. **Chair:** Jamie MCMICHAEL-PHILLIPS (UK), since May 2010
Vice-Chair: John NYBERG (US), since March 2016
Secretary: Yves GUILLAM (IHO Secretariat), since July 2014
2. **Membership:** (*as of 21 November 2016*)

Member State	RHC¹	
Argentina	SWAtHC	Capt. Fabian VETERE
Australia	SWPHC	Mr. Mike PRINCE
Australia		Mr. Nick LIGACS
Brazil		Capt Nickolas ROSCHER
Canada	ARHC, USCHC	Mr. Laurent TARDIF
Denmark		Mr. Jens Peter HARTMANN
Finland	BSHC	Mr. Jarmo MÄKINEN
France	EAtHC, MBSHC	Ing en chef Laurent KERLEGUER
Germany	-	Dr. Mathias JONAS
Hong Kong, China	EAHC	Mr. Michael CM CHAU
India	NIOHC	RAdm Vinay BADHWAR
Italy	-	Cdr. Carlo MARCHI
Japan	-	Dr Yukihiro KATO
Norway	NHC	Mr. Evert FLIER
Oman	RSAHC	Commander Thani AL MAHOKI
Poland		Mr. Stanislaw PIETRZAK
Singapore		Dr. Parry OEI
Turkey	-	Lcdr. Eşref GÜNSAY
United Kingdom		Mr. Jamie MCMICHAEL-PHILLIPS (Chair)
United Kingdom	NSHC	Mr Nigel SUTTON
South Africa	SAIHC	Capt Abri KAMPFER
United States	MACHC	Mr. John NYBERG
United States		Mr. John LOWELL
RENCs	RENCs	
PRIMAR	PAC Chair	Mr. Stanislaw PIETRZAK
PRIMAR	Operator	Ms. Birte Noer BORREVIK
PRIMAR	Manager	Mr. Hans Christoffer LAURITZEN
IC-ENC	SC Chair	Captain Marc van der DONCK

¹ RHC : Regional Hydrographic Commission

IC-ENC	Operator	
IC-ENC	Manager	Mr. James HARPER
IHO Secretariat	IHO Secretariat	
Director	Director	Mr. Mustafa IPTES
Assistant Director	Assistant Director	Mr. Yves GUILLAM (Secretary)

3. Meetings:

- WENDWG7 - Washington DC, USA (31 Jan.-2 Feb. 2017)
- WENDWG6 - Stavanger, Norway (8-10 March 2016)
- WENDWG5 - Singapore (3- 5 March 2015)
- WENDWG4 - Niteroi, Brazil (18-20 May 2014)
- WENDWG3 - Monaco (13-14 May 2013)
- WENDWG2 - London, UK (21-22 September 2012)

4. Agenda Items:

- Meeting IMO ECDIS Carriage Requirements
- ENC Coverage, Gaps, Risk Assessment
- Overlapping ENCs and associated Policy and Procedures
- Quality, Consistency, Updating Issues, Consistency with Paper Charts, Marine Information Overlays
- ENC Scheming in Regional Hydrographic Commissions
- RENC Distribution and Harmonization
- WEND Principles and Governance, Guidelines, Cartographic Boundaries/Limits
- ECDIS Display Issues (IHC XVIII, PRO-3 refers)
- IHO Strategic and Work Programme Performance Indicators
- IHO ENC Catalogue
- Impact of S-101 ENCs

5. Difficulties encountered and challenges yet to be addressed:

- Various ways of understanding of the WEND Principles and Guidelines for the allocation of ENC production responsibilities → Need for RHCs to adopt ENC schemes.
- Need for more systematic risk assessment studies to assess ENC coverage and data quality, based on user requirements (AIS tracks, etc.).
- Consistency between paper charts and ENCs, and subsequent updates → need for a better scrutiny by RHCs eventually supported by RENCs.
- Impact of the development of a possible gridded S-101 ENCs worldwide scheming still need to be addressed.
- Some available ENCs are not yet distributed though RENCs.
- Some ENC overlaps are navigationally-significant.
- Lack of guidance and possible training for Port State Control ECDIS inspectors (S-66 Ed.2.0.0?).

6. Achievements/outputs/conclusions:

- No serious concerns reported by end-users, mariners. ENC coverage is considered as satisfactory as the existing paper charts coverage when IMO made mandatory ECDIS carriage → the IHO has met the IMO requirements!

- Improvement of the IHO ENC Catalogue and ENC associated services, thanks to the RENCs.
- Clarification and improvement of the WEND Principles and Guidelines.
- Better harmonization, technical and marketing coordination between RENCs.
- Improvement and increasing implementation of risk assessment methodologies.
- Best practices sharing with the creation of the WENDWG Repository.

7. Proposals for the consideration of the Assembly, if any:

- Note the report.
- Note the following information (*IRCC8 Decision 15 refers*): further progress on delivering global ENC coverage is now largely dependent upon new surveys or re-surveys of areas where there is no satisfactory coverage.
- Note the following information (*IRCC8 Action 14 and WENDWG6 Action 5 refer*): IRCC has tasked the WENDWG to draft an IHO Resolution to address the overlapping issues and report to the next IRCC meeting, the objectives being:
 - to identify the most “navigationally-significant” overlapping issues,
 - to prevent the increase of such cases;
 - to address and solve all of those cases, as soon as possible and at least within 3-years.
- Note that although it is the Coastal State Responsibility to decide on the ENC distribution mechanisms, one of the best way to ensure a consistent and high quality level within the IHO is to adopt a distribution of all ENCs through the RENCs.