

**9th WENDWG Meeting**

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**IC-ENC's Overlapping Data Reporting and Analysis**

<b>Submitted by:</b>	IC-ENC General Manager
<b>Executive Summary:</b>	<ol style="list-style-type: none"> <li>1. This paper provides an update on IC-ENC activity regarding overlapping ENCs.</li> <li>2. IC-ENC has provided national overlap reports to each RHC, and each of its affected members.</li> <li>3. WENDWG9 may wish to consider the benefits of the range of reports it considers, versus the potential ambiguity caused by not having a single definitive source/report.</li> </ol>
<b>Related Documents:</b>	IC-ENC Overlapping Data policy IC-ENC Overlap reports to RHCs IC-ENC Overlap reports to members
<b>Related Projects:</b>	

**Introduction / Background**

WENDWG7 endorsed the IC-ENC overlapping policy as a first step to identifying *navigationally significant* overlaps.

IC-ENC has provided each of its members with a national overlap report in February 2018 and February 2019, to seek comments and/or assist resolution of overlaps. This has been partly successful and improvement action, and further work by HOs continues, as a result of these reports.

The WENDWG8 Minutes record: *The meeting also considered that it was useful to get different and complementary views from several sources (from the RENCs, from the VARs, from the RHCs, from the ENC Producers themselves) to make an objective assessment, once a year, on ENC coverage and on the risk significance of overlapping ENC data in general.*

Therefore, each RHC has been provided with an updated overlap report in the first week of February 2019, for consideration ahead of WENDWG9.

Furthermore, since WENDWG8, the following RHC overlap reports have been provided to the RHS by IC-ENC, ahead of their scheduled meeting:

RHC	Report sent	RHC	Report sent
US/Canada	06/07/2018	East Asia	05/09/2018
North Sea	26/01/2018	Mediterranean & Black Sea	11/09/2018
MACHC	10/04/2018	MACHC	09/10/2018
MACHC	06/07/2018	MACHC	15/11/2018
S. Africa & Islands	26/07/2018	South West Pacific	05/02/2019
Baltic Sea	26/07/2018	ROPME Sea Area	12/02/2019
Arctic	20/08/2018		

## Analysis/Discussion

IC-ENC's Overlap tracking describes the following changes in number of overlaps between WENDWG7, WENDWG8 and WENDWG9:

Status	Definition	WENDWG7	WENDWG8	WENDWG9
Live	Overlap exists	187	231	261
Accept	Overlap exists, but is Acceptable (very insignificant)	13	23	53
Potential	Overlap identified at IC-ENC validation stage, activity is underway to try to prevent issuing an overlap.	15	68	86
Resolved	An overlap, or potential overlap, that has been successfully resolved.	31	114	199
Unassessed	Live Overlap not yet assessed	44	0	0

The following summary statistics are provided to assist discussion. These should therefore be considered in conjunction with other reports to WENDWG9 which are likely to be based on a larger set of ENC's (e.g. global).

Status of overlap	Overall Severity of Risk: 10 <sup>th</sup> January 2017							TOTAL
	ACCEPT	LOW	MEDIUM	HIGH	POTENTIAL	RESOLVED	UNASSESSED	
ACCEPT	13							13
LIVE		117	26	0			44	187
POTENTIAL					15			15
RESOLVED						31		31

Status of overlap	Overall Severity of Risk: 1 <sup>st</sup> March 2018							TOTAL
	ACCEPT	LOW	MEDIUM	HIGH	POTENTIAL	RESOLVED	UNASSESSED	
ACCEPT	23							23
LIVE		173	58	0			0	231
POTENTIAL					68			68
RESOLVED						114		114

Status of overlap	Overall Severity of Risk: 11 <sup>th</sup> February 2019							TOTAL
	ACCEPT	LOW	MEDIUM	HIGH	POTENTIAL	RESOLVED	UNASSESSED	
ACCEPT	55							53
LIVE *		182	79	0			0	261
POTENTIAL					86			86
RESOLVED						199		199

\*See Annex A for the breakdown of these live overlaps by RHC region, including the risk assessment level.

Of the POTENTIAL overlaps currently in progress, the majority are expected to be solved through agreement of technical data coverage limits before the new ENC is released – i.e. will not result in a new overlap to users.

As reported to WENDWG8, comments have been received from some IC-ENC members regarding the status of overlaps, following receipt of their national reports. These have

identified that for Live overlaps there are several possible outcomes to the resolution (or not) of the overlap:

1. Overlap is unlikely to resolved (e.g. due to political issues) and no technical alignment is being conducted.
2. Overlap is unlikely to resolved (e.g. due to political issues) but technical alignment is being conducted – e.g. alignment of content etc
3. Resolution is in discussion/progress with both Producers agreeing in principle, but timescale unknown.
4. Firm plan to resolve overlap has been agreed by both Producers, resolution expected at a known date.

As reported to WENCWG8, there continues to be known challenges to the IC-ENC overlap process and report:

- This work only applies to ENCs from IC-ENC members. It must be remembered that these refer to the IC-ENC members' ENCs only (<http://www.ic-enc.org/membership>), not to the full WEND Database overlaps.
- The resource required to keep up to date with the assessments – the assessment is intensive.
- There have been differences of opinion between HOs with their comments on the same overlap.
- There are several sources of information regarding ENC overlaps, which differ. For example, the IC-ENC report, the PRIMAR Overlap Checker tool, UKHO's GIS-generated reports to WENDWG. WENDWG9 may wish to consider the benefits of the range of reports, versus the potential ambiguity caused by not having a single definitive source/report.

## **Conclusions**

Progress is being made, and since IC-ENC recording in this way began, 199 overlaps involving IC-ENC members have been resolved (some of these were resolved before the data as released to users). RENC support regarding overlaps is appreciated by RENC members and RHCs.

However, overlaps remain present in the WEND Database. 261 of these overlaps involve IC-ENC members. Other reports to WENDWG regarding overlaps indicate different figures – there are a range of data sets and reporting tolerances on which different reports are based.

## **Action Required of WENDWG**

The WENDWG is invited to:

- Note this report.
- Assess progress made between WENDWG7, WENDWG8 and WENDWG9.
- WENDWG9 may wish to consider the benefits of the range of reports it considers, versus the potential ambiguity caused by not having a single definitive source/report.

## Annex A

Number of Live overlaps, separated by RHC, as at 11<sup>th</sup> February 2019.

RHC	"Live Overlaps" - Overall Severity of Risk				TOTAL
	LOW	MEDIUM	HIGH	UNASSESSED	
ARHC/EAHC	3				3
BSHC	6				6
EAHC	46	34			80
EAtHC	2				2
HCA	1				1
MACHC	1				1
MBSHC	80	24			104
NIOHC	3	1			4
NSHC	14				14
RSAHC	5	17			22
SAIHC	1	2			3
USCHC	3				3
RSAHC/NIOHC	4	1			5
SAIHC/HCA	1				1
SWPHC/HCA	3				3
SWAtHC	3				3
BSHC/NHC	2				2
EAHC/SWPHC	4				4
<b>Total</b>	<b>182</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>261</b>