



## Baltic Sea International Charting Coordination Working Group (BSICCWG)

# BSICCWG Report to the BSHC 23<sup>rd</sup> Conference

### 1. Status of the work of BSICCWG

Main tasks for the BSICCWG are to coordinate development and maintenance of paper and electronic charts (INT charts and ENC) in Baltic Sea, that support ships engaged on international voyages. Maintain S-11 Part B: INTernational Chart Web Catalogue and monitor ENC coverage, gaps and overlaps in Baltic Sea area.

*Mr Jarmo Mäkinen* has acted as the Chair of the BSICCWG. There is no permanent secretary for the WG. *Mr Jukka Helminen* has acted as a secretary in the BSICCWG.

The membership of the WG:

<i>Denmark</i>	<i>Mr Peter Ladegaard Sørensen</i>
<i>Denmark</i>	<i>Ms Susanne Carlsen</i>
<i>Estonia</i>	<i>Ms Nele Savi</i>
<i>Estonia</i>	<i>Ms Dana Kuznetsova</i>
<i>Finland</i>	<i>Mr Jarmo Mäkinen</i>
<i>Finland</i>	<i>Mr Jukka Helminen</i>
<i>Germany</i>	<i>Ms Sylvia Spohn</i>
<i>Latvia</i>	<i>Ms Linda Purina</i>
<i>Latvia</i>	<i>Ms Ilze Driksne</i>
<i>Lithuania</i>	<i>Ms Alla Bira</i>
<i>Poland</i>	<i>Mr Jacek Kijakowski,</i>
<i>Poland</i>	<i>Mr Stanislaw Pietrzak</i>
<i>Russia</i>	<i>Capt Sergey Egorov</i>
<i>Sweden</i>	<i>Ms Anita Bodin</i>
<i>Sweden</i>	<i>Mr Hans Engberg</i>

Last meeting (BSICCWG5) took place in Gdansk, Poland 21-22 November 2017.





## 2. BSICCWG5- meeting 21-22 Nov 2017, Gdansk Poland.

The agenda of the BSICCWG5 meeting was once again divided into two parts; paper chart issues (first day) and ENC related items (second day).

### Paper charts+general (first day)

#### **Status of BSICCWG and its work**

- BSICCWG TOR's and ROPs were studied and discussed. The document is now updated according with the generic Terms of Reference and Rules of Procedure for International Charting Coordinating working groups (S-11, Part A). [See Annex 1.](#)
- Membership; Susanne Carlsen (DK) and Dana Kuznetsova (EE) were confirmed as members of the group. Jukka Helminen (FI) was also added as a member.

#### **BSICCWG4 actions**

- Status of the list of actions was reviewed. Some of them are permanent tasks. List of actions will be found from BSHC webpage [www.bshc.pro/](http://www.bshc.pro/)

#### **INT Chart Web Catalogue; Updating of S-11 Part B, Region E**

- Updating process and the use of INT Chart Web Tool were reviewed. Tool is working quite well from the coordinator's point of view. Feedback from the member states was mainly positive. Some additional help is needed, e.g. when adding plans to main chart.
- Remark was made, that when taking out PDF file from the WebChart Tool, e.g. Polish and Latvian letters (ā, ī, ē), are not visible anymore. To be fixed on development phase II.

*Development phase II* of INT Chart Web tool has started (KHOA/IHO Sec.) Baltic Sea will be one the testing areas (Summer/Autumn 2018). Development phase II will contain:

- ENC scheme management procedures (S-11)
  - Base map for Polar regions (Arctic & Antarctic)
  - Additional layers for 500 world ports and AIS traffic information
  - Connection between IHO ENC catalogue and INTOGIS systems
  - Improve the chart display functions
  - User feedbacks from HO, regional coordinator
- link to [INT Chart Web Catalogue](#)

#### **Status of Updates in Region E**

##### *BSHC22 action:*

**Action № 7: provide continuous updates to S-11 Part B for INT Region E through the INTOGIS tool and implement the procedure depicted in IHO CL 64/2015 for the review and monitoring of INT charts and define Approved ENC Schemes.**

- Web Catalogue and Tool are successfully used in EE, DE, LV, FI, SE. Updates from DK, RU have not received yet. Denmark has evaluated the Web Tool. Russia has got username and password from IHO.
- INT Chart Producer and Printer Nations and INT Chart Coordinators/ICCWGs are now expected to maintain regional databases using INTOGIS. Without that, catalogue will have old information of new editions etc.
- It has agreed that updating the S-11 by Web Chart Catalogue Tool should be a continuous part of the chart publishing process in every member state.

##### *BSICCWG5 action:*

- All member states to adopt S-11 updating by INTOGIS tool as a part of chart publishing process. Updating of database will be made on quarterly basis.
- latest version of database is: S-11, Part B, Region E, Ed. 3.0.8., December 2017



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### **Baltic Sea INT Scheme- Status of New INT Charts/Numbers**

- The need for the numbers for new INT charts was reviewed.
- Estonia: 3 new numbers, Finland 2-3, Germany: 17, Latvia: in near future none, Poland: 4, Denmark 3-5, Sweden 1
- See more detailed information in chapter 3

### **Baltic Sea sub-areas Defining Exact Limits for Sub-areas**

- The limits between sub-areas have been originally defined very roughly. There is a need to have more accurate (detailed) coordinates for the limits between sub-areas. BSICCWG tasked to define exact coordinates for limits. Comments from member states were studied and some members were tasked to provide comments. See more detailed information in chapter 4.

### **Revised Management, Review and Monitoring of New INT Charts (IHO CL 64/2015)**

- The procedure has been standardized (IRCC9-11B). All **new** INT charts should be sent to the area coordinator for evaluation. This basic check list is part of the document S-11, Part A, Annex 2. This is now a permanent process/action.

### **Transition to the harmonized vertical reference (BSCD 2000)**

- The item was in agenda by request of some member states. Every member state will go to the new chart datum in the next few years. Difference between old and new datum varies country by country. Transition will take many years. There was also discussion how to inform this change in products to mariners. Specially in ENC's it was seen challenging,

### ENC issues (second day)

#### **Changing compilation scales in ENC approach cells, members experiences**

- There was a brief discussion about harmonizing depth contours between different scale layers. Different usage bands are generalized differently and they will never match exactly, even according recommendations they should.
- Estonia made a presentation of their ongoing project of changing compilation scales.
- There was a discussion about the density of soundings. Every country has its own system on how to choose soundings. The sea bottom varies a much and harmonizing will be challenging. In future (and already today), we have to think more ENC's than paper charts, when selecting depth information.

#### **Status of ENC Coverage in Baltic Sea. Review of Baltic Sea ENC –scheme**

- Baltic Sea ENC coverage was analysed by member states.
- Denmark will produce 5 new coastal cells in Kattegat area to harmonize the data with Sweden. Denmark is also planning to release many new harbour cells within a couple of years.
- Finland will extend coastal coverage in the future. Finland will also extend ENC coverage to lake areas.
- Latvia will have in the future all coastline areas covered with approach cells in scale 1:22 000.
- Poland is planning to extend approach coverage to cover all the coast.
- Estonia has released new approach cells in the lake areas.
- Sweden has no plans changing the coverage.
- Russian coverage was briefly reviewed. There is a small gap in the coverage in Kaliningrad area.

#### **Gaps and Overlaps Analysis from WENDWG7**

- There was a discussion about gaps and overlaps on ENC's in Baltic Sea and about analyzing the list from WENDWG7. IC-ENC overlapping policy and report were also reviewed. BSICCWG was considering that overlaps are not a big issue in the Baltic Sea area.

#### **Baltic Sea ENC Harmonisation Recommendations**

- Status of the ENC harmonization recommendations was reviewed more detailed and updates were done.
- Recommendation 10 (joint plans and time schedules for the adoption of new versions of ENC's, S-101) is becoming relevant in the near future.

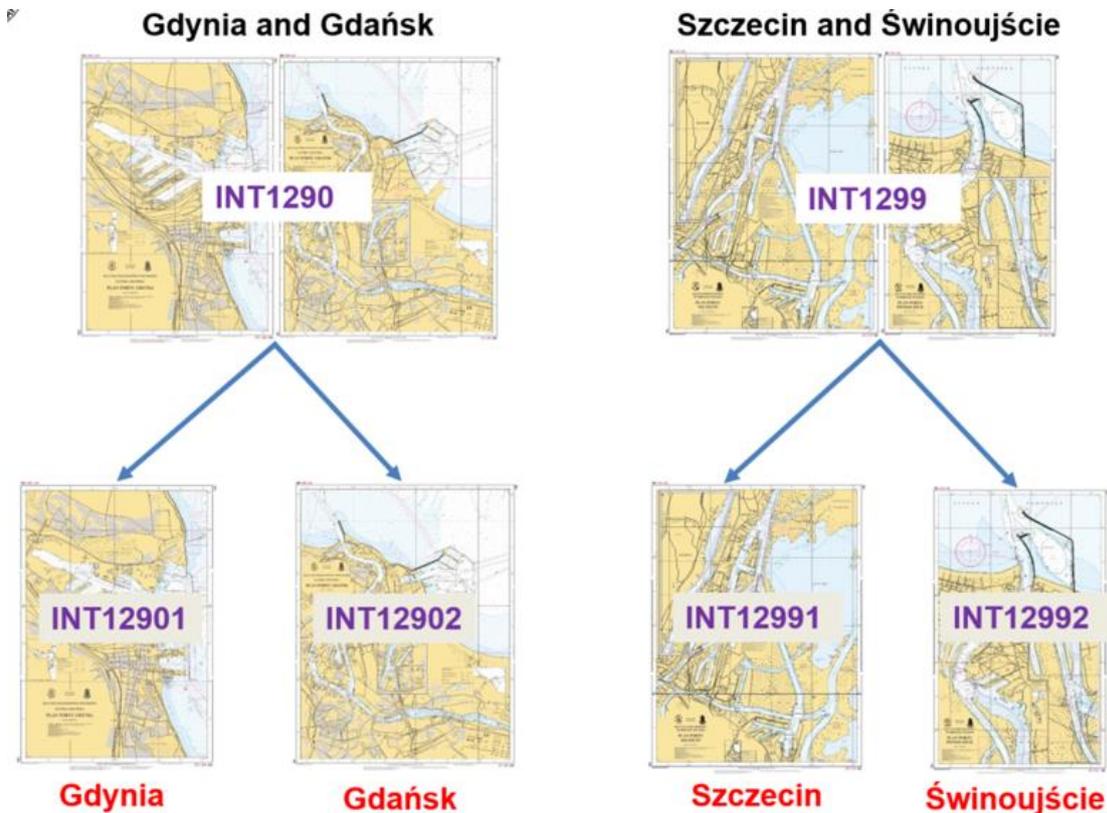


- There was a discussion about the purpose of this list of recommendations in general. It was emphasized that this is a historical check list, which is not worth to modify more detailed now. Creating new list in the future would probably be more useful (when S-100 products are coming etc.). See [Annex 8](#).

### 3. INT Chart Scheme; new charts/-numbers.

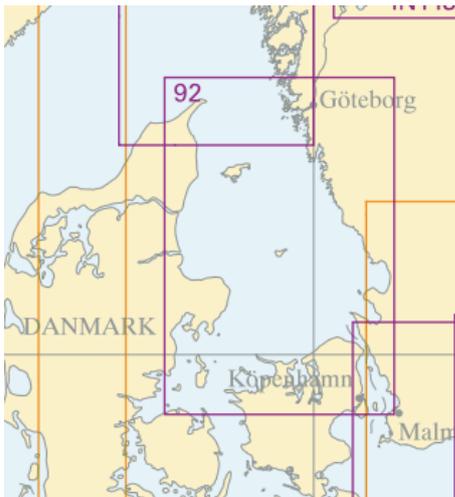
#### Poland:

New INT-numbers for existing Polish charts [INT1290](#) and [INT1299](#). These 2 charts will be divided into 4 new charts. Existing INT- numbers [INT1290](#) and [INT1299](#) will be frozen for 5 years, when the new charts [INT12901](#), [INT12902](#), [INT12991](#) and [INT12992](#) will be published (2018). See more in [Annex 2](#).



#### Sweden:

Existing national Swedish coastal chart SE92 (scale 1:250 000) will be taken as an INT chart. to better service New Routeing System in Skagerrak and Kattegat (implementation July 2020). This has been agreed between Denmark and Sweden (see [Annex 2](#)). New INT-number will be [INT1220](#).



#### Germany:

Germany is planning to change INT chart scheme in Baltic Sea and North Sea area, in conjunction with cooperation with UKHO. Work has started in North Sea area. Germany will need 17 new INT- numbers and give up for 10 numbers.

Following existing 10 INT-numbers will be frozen for 5 years (at least) after new charts will be published INT1342, INT1344, INT1345, INT1351, INT1352, INT1356, INT1359, INT1360, INT1361, INT1364.

New INT numbers are planned to be mostly 5-digit numbers:

INT1211, INT13420, INT13421, INT13430, INT13431, INT13440, INT13450, INT13510, INT13520, INT13560, INT13561, INT13562, INT13590, INT13591, INT13600, INT13601, INT13610.

See detailed in [annex 3](#).

BSH will give up to produce charts DE40 (INT 1201, 1:250 000) and DE64 (INT 1304, 1:200 000) when the new INT chart in scale 1: 375 000 (INT1211) will cover the German waters. Production responsibility of INT1201 is planned/agreed to change to Sweden and production of INT 1304 to Denmark.

#### **4. Coordinates for the Baltic Sea subareas**

##### Accurate coordinates between limits

Definition of coordinates for the limits of the the Baltic Sea sub-areas have been done. Almost all member states have sent comments for the coordinates. Also the names for the coordinate points have been defined. [See Annex 4](#).

BSICCWG Chair has sent a status report to Baltico2018 -meeting. Discussion with the Meteorological organisations in Finland and Sweden has been continued. Feedback so far is, that Meteorological organisations will keep their existing weather report areas and limits .

##### Change level 3 name Middle Baltic to Central Baltic

All member states (who have responded) agrees to **change level 3 name Middle Baltic to Central Baltic** (name taken from level 2 and name will be after that in parallel with the Meteorological areas). See [Annex 5](#).



New name for level 2 should then be Main Baltic or Baltic Proper. There has seen benefits for both proposals. Name Baltic Proper seems to be used more widely. Level 2 is very seldom used in nautical charts (and not existing in the Meteorological areas). **The proposal is to rename level 2 name Central Baltic to Baltic Proper.** See Annex 5.

#### Proposal to move a limit for the Middle Baltic

- Latvia has made first proposal to change level 3 limit between Middle Baltic and South Eastern Baltic/Southern Baltic from 56°30'N to 56°00'N (limit is now between Latvia's main harbor Liepaja)

- Meteorological limit is 56°30'N

- Navtex limit is 56°50'N.

- Latvia made a new proposal to change limit to Navtex limit 56°50'N.

- Chair has sent a question to Baltico Coordinator (Sweden) to clarify why the Navtex limit (56°50'N) differs from the meteorological one (56°30'N).

- One solution could be to shift a limit only little bit and only in Latvian side e.g. to 56°34'N. After that the limit is not dividing port of Liepaja.

Issue is under consideration in WG. See annex 6.

## **5. ENC Coverage, gaps and overlaps analysis**

Gaps and overlaps discussed and analysed in BSICCWG, see report from BSICCWG5 meeting before in this report. Chair has reported to WENDWG8 after BSICCWG meeting.

Many member States have kept ENC coverage unchanged for years and let neighbouring countries cut or extend their coverage to match the border.

It is agreed in BSICCWG, that member states will inform Chart Coordinator of new cells and major changes in coverage.

Russia has made 1<sup>st</sup> draft of Saimaa Canal ENC- cooperation and harmonisation with Finland is going on.

See in annex 7 Overlaps in Baltic sea (analysis made by UKHO for WENDWG8 Mar 2018). In IC-ENC risk analysis no overlaps as classified 'medium risk' is not found anymore (one in 2017). See also new IC-ENC risk analysis report from July 2018 in annex 7B.

## **6. Future work of BSICCWG**

The future work of BSICCWG will consist:

- ✓ To test INTOGIS development phase II tools, and report back.
- ✓ Finalize all the issues concerning limits and coordinates for Baltic Sea subareas.
- ✓ To put updating of INT charts ( by INTOGIS tools) as permanent and continuous process in every member state
- ✓ To review and monitor new INT Charts (IHO CL 64/2015)
- ✓ To develop and maintain INT chart scheme for the Baltic Sea
- ✓ To follow and coordinate all the planned new INT charts and the freezing numbers.
- ✓ To monitor ENC coverage in the Baltic Sea.
- ✓ To analyze gaps and overlaps and report to BSHC and WENDWG.
- ✓ To review ENC harmonization recommendations connected to S-100 products.



## **7. Next BSICCWG-meeting**

Next meeting (BSICCWG6) will be held in Riga, Latvia in 3-4 April 2019. The BSICCWG7 will be arranged in Rostock, Germany.

## **8. Actions for the BSHC 23<sup>rd</sup> Conference**

- Note this report.
- Approve updated TORs and RFPs for the BSICCWG
- Approve accurate coordinates for level 3
- Approve proposal to change name Middle Baltic to name Central Baltic in level 3.
- Approve new name Baltic Proper for level 2.
- Give further guidance on future work of WG.

### Annexes

- Annex 1 BSICCWG Terms of Reference and Rules of Procedure
- Annex 2 New INT Charts Poland, Sweden
- Annex 3 New INT Charts Germany
- Annex 4 Coordinates for the Baltic Sea sub areas- level 3
- Annex 5 New names for the sub areas
- Annex 6 Proposal to move limit between Middle Baltic/Southern Baltic
- Annex 7 ENC overlaps in Baltic
- Annex 7B IC-ENC risk assessment report
- Annex 8 Status of Baltic Sea ENC Harmonisation recommendations 2018



## Baltic Sea Hydrographic Commission/BSICCWG

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### TERMS OF REFERENCE AND RULES OF PROCEDURE for the BALTIC SEA INTERNATIONAL CHARTING COORDINATION WORKING GROUP (REGION E)

#### 1. Background

1.1 The *Baltic Sea* Hydrographic Commission recognizes the need to actively develop and maintain official nautical charts, in both paper and digital formats, that support ships engaged on international voyages in its region. Accordingly, it appoints and directs a working group to undertake this task. The working group shall be named the *Baltic Sea* International Charting Coordination Working Group (BSICCWG).

1.2 The BSICCWG is a subsidiary body of the *Baltic Sea* Hydrographic Commission. It shall conduct its work in accordance with these Terms of Reference and Rules of Procedure. The Baltic Sea Hydrographic Commission may clarify or amend these generic Terms of Reference and Rules of Procedure for the BSICCWG in order for these to be made specifically relevant and applicable to its region. Its work is subject to the Hydrographic Commission's approval.

#### 2. Terms of Reference

2.1 To study issues related to nautical charting of the region, in particular to coordinate the allocation of production responsibilities for paper and electronic charts (INT charts and ENC), that support ships engaged on international voyages.

2.2 To develop and maintain an integrated international chart scheme for the region.

2.3 To reach decisions on the maintenance and updating of the documents for which it is responsible.

2.4 To provide advice on chart schemes to individual Member States, in order to encourage adherence to IHO charting regulations, specifications and standards, and to promote and coordinate the production of international (INT) charts and ENC.

2.5 To develop proposals for new or amended INT chart schemes to meet evolving user needs (for example, the introduction of new or amended routeing measures, the confirmed developments of international ports).

2.6 To coordinate the development and maintenance of ENC schemes, by regional agreement, to ensure consistent parameters are used in the compilation of ENC.

2.7 To act as the custodian and maintainer of official, version-controlled catalogues, depicting the status of published and planned charts, subject to formal review and approval by Member States of the Baltic Sea Hydrographic Commission. However, the ENC catalogues may be maintained by RENCs subject to *Baltic Sea* Hydrographic Commission's approval.

To provide advice to the IHO Secretariat on any amendments required to maintain S-11 Part B: INTERNATIONAL Chart Web Catalogue (for example, scale, limits, numbering) and, as appropriate, any corresponding ENC catalogue

2.8 To provide advice to Chair NCWG and IHO Secretariat on any amendments required to maintain S-11.

2.9 To undertake professional consideration of new information of interest to the BSICCWG which may impact its business and responsibilities.

### **3. Rules of Procedure**

3.1 Membership is open to all members and associate members (Member States) of the Baltic Sea Hydrographic Commission wishing to be represented. Each Member State shall be represented through a single point of contact. Noting the technical nature of the Group's work, participation should be limited to representatives of Hydrographic Offices concerned with nautical charting.

3.2 The Coordinator will monitor membership to encourage active participation by all chart-producing Member States within the Region.

3.3 Non-Governmental International Organizations recognized by the IHO may participate as observers in BSICCWG activities, where matters of special interest to the NGIO concerned are being considered (IHO Resolution 5/1957 as amended, rule 6.c refers).

3.4 The Coordinator role shall be held by a Member State participating in the BSICCWG. The election of the Coordinator, or the reconfirmation of the existing Coordinator, shall be decided by the *Baltic Sea* Hydrographic Commission at an ordinary meeting or, where a meeting is not convened, by correspondence. Election shall be determined by a simple majority of Member States present and voting (or responding, where determined by correspondence).

3.5 Normally, a Vice-Coordinator is not required to be appointed. However, if a Vice-Coordinator is appointed by the Baltic Sea Hydrographic Commission:

- Election to the post will be by the same method as for the Coordinator;
- The Vice-Coordinator shall act as the Coordinator, with the same powers and duties, in the event that the Coordinator is unable to carry out the duties;
- The Coordinator and Vice-Coordinator will decide between them the organization of the work entailed in these posts, or these may be defined by the Baltic Sea Hydrographic Commission.

3.6 Conduct of business will be primarily by correspondence and meetings. If meetings are required, these should be planned with due regard to efficiency and obtaining the fullest membership support (for example, by holding meetings in association with other working group meetings of the Baltic Sea Hydrographic Commission. All members shall inform the Coordinator in advance of their intention to attend meetings of the BSICCWG. The working language shall be English.

3.7 Draft proposals will be circulated for review and comment to:

- All members of the BSICCWG and, where appropriate, all members of the Baltic Sea Hydrographic Commission;

- Coordinators of adjoining regional ICCWG, if the scheme impacts on those regions (for example, to ensure consistency and coherence of coverage across regional boundaries, for the allocation of chart numbers);
- Hydrographic Offices producing or printing charts of the Region;
- Chair NCWG, if independent advice is required.

3.8 Decisions shall be made by consensus.

3.9 Where required, a Work Plan should be developed and maintained. This should include task priorities and the expected time frames for progressing tasks. The Baltic Sea Hydrographic Commission may delegate tasks to the BSICCWG as it sees fit; it is also available to provide guidance on request (for example, in respect of priorities).

3.10 The Coordinator will report progress to meetings of the Baltic Sea Hydrographic Commission and at other reasonable times, on request. Reports shall include but are not limited to:

- An updated Regional INT Chart Catalogue;
- An update of the ENC Catalogue relevant to the Region (if not undertaken by RENCs);
- Changes made to the scheme of INT Charts for the Region, approved by the BSICCWG since the last report, together with a summary of reasons;
- Changes made to the ENC scheme for the Region, approved by the BSICCWG since the last report, together with a summary of reasons;
- An updated Work Plan (if used).

3.11 All participants, including Baltic Sea Hydrographic Commission members and associate members where not directly represented in the BSICCWG, shall keep the Coordinator informed of any information relevant to the BSICCWG. This may include:

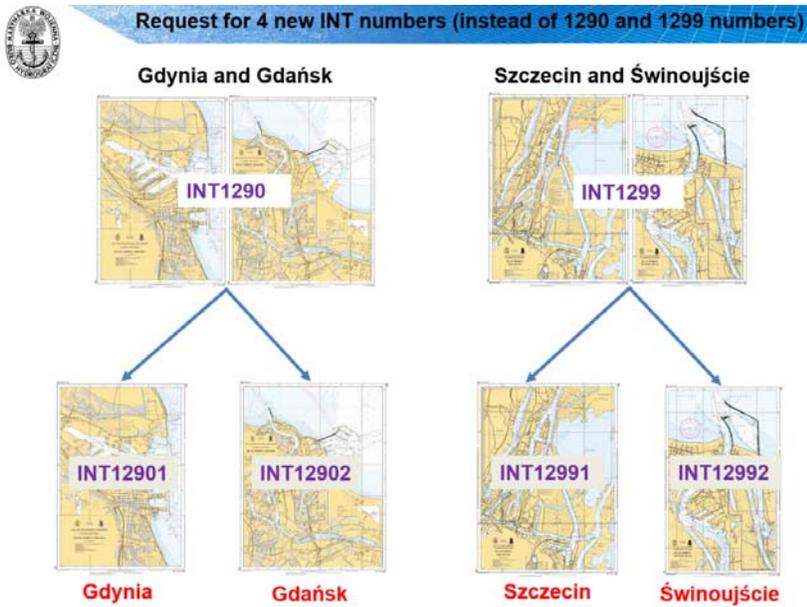
- Submitting proposals for new INT Charts, or amendments (for example, to limits, scale of portrayal) to existing INT Charts, in the Region;
- Requesting new INT Chart numbers for new charts that are planned;
- Reporting the status of production of international charts (INT Charts and ENC).

3.12 BICCWG members shall respond in a timely manner to all reasonable requests for advice from the Coordinator (for example, requests for updating the Catalogue of the INT Charts of the Region, change in points of contact), abiding by all reasonable stated deadlines.

3.13 The work shall be done in accordance with:

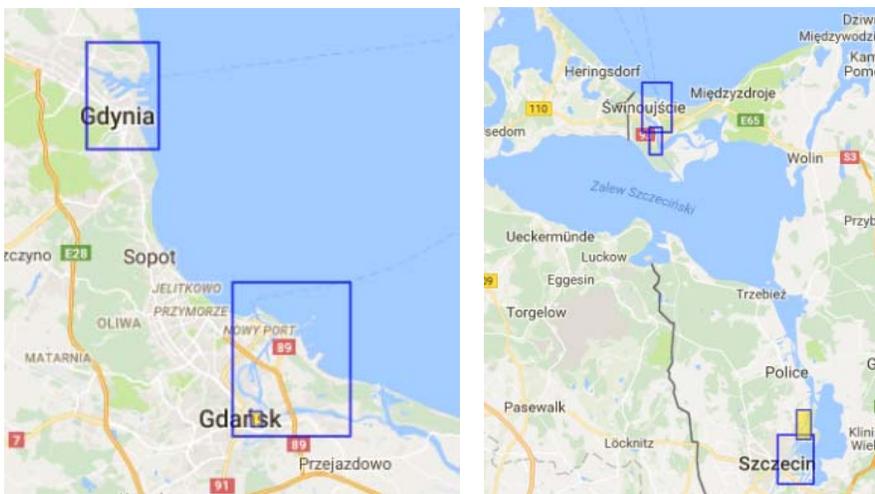
- IHO Resolution 1/1997 as amended: 'Principles of the Worldwide Electronic Navigational Chart Database (WEND)', to ensure a world-wide consistent level of high-quality, updated ENCs;
- S-57: 'IHO Transfer Standard for Digital Hydrographic Data';
- S-11 Part A: 'Guidance for the Preparation and Maintenance of International (INT) Charts and ENC Schemes';
- S-11 Part B- International Chart Web Catalogue.
- S-4: 'Chart Specifications of the IHO and Regulations for International (INT) Charts', which provides the internationally-agreed product specification for both national and international (INT) charts;
- S-65 : 'Electronic Navigational Charts (ENCs) "Production, Maintenance and Distribution Guidance"'.

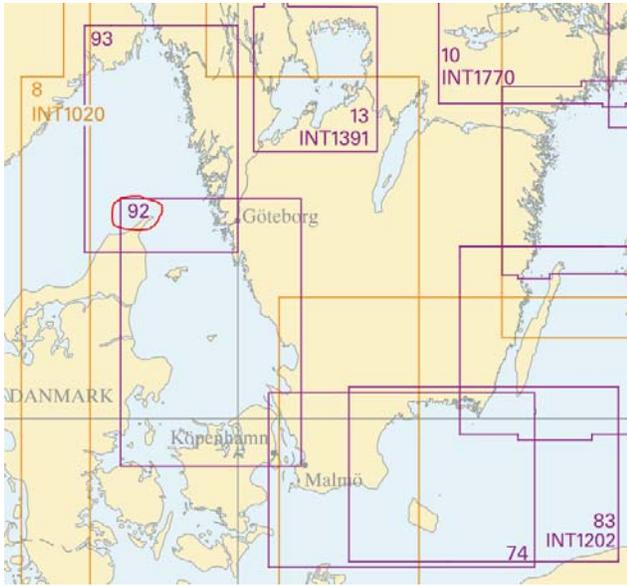
## Poland; new INT-numbers for Polish INT charts 1290 and 1291



Planned new national number	New INT number	Chart Title	Scale	Corners coordinates	current INT number	current national number
16	INT 12901	Port of Gdynia	1:10 000	SW 54°30.00'N, 18°30.00'E NE 54°33.53'N, 18°34.10'E	1290	12
17	INT 12902	Port of Gdańsk	1:12 500	SW 54°20.50'N, 18°38.30'E NE 54°25.60'N, 18°45.00'E	1290	12
		Plan A: Motława - marina	1:5 000	SW 54°20.83'N, 18°39.35'E NE 54°21.31'N, 18°39.95'E		
18	INT 12991	Port of Szczecin	1:10 000	SW 53°24.00'N, 14°33.20'E NE 53°28.00'N, 14°38.10'E	1299	15
		Plan A: continuation of Chart	1:10 000	SW 53°27.65'N, 14°35.80'E NE 53°30.00'N, 14°37.70'E		
19	INT 12992	Port of Świnoujście	1:10 000	SW 53°52.50'N, 14°14.70'E NE 53°56.50'N, 14°18.75'E	1299	15
		Plan A: continuation of Chart	1:10 000	SW 53°50.70'N, 14°15.70'E NE 53°52.90'N, 14°17.42'E		

Four new INT-numbers for Polish charts INT1290 and INT1299. Existing INT- numbers INT1290 and INT1299 will be frozen for 5 years, when the new charts INT12901, INT12902, INT12991 and INT12992 will be published.



Sweden: INT number for national chart in scale 1:250 000

New INT number: **INT1220** (SE 92)

New INT chart **INT1220** (existing SE 92) in scale 1:250 000. Producer nation: Sweden.

Justification:

- New TSS (Traffic Separation Scheme) area in Kattegat (and in Skagerrak)
- to cover new TSS area by one chart in Kattegat
- Agreed between Sweden and Denmark
- Navigational requirements of international shipping
- To get continuous coastal chart series in uniform scale 1:250 000 in Baltic Sea area.



Existing coastal INT charts in scale 1:250 000.



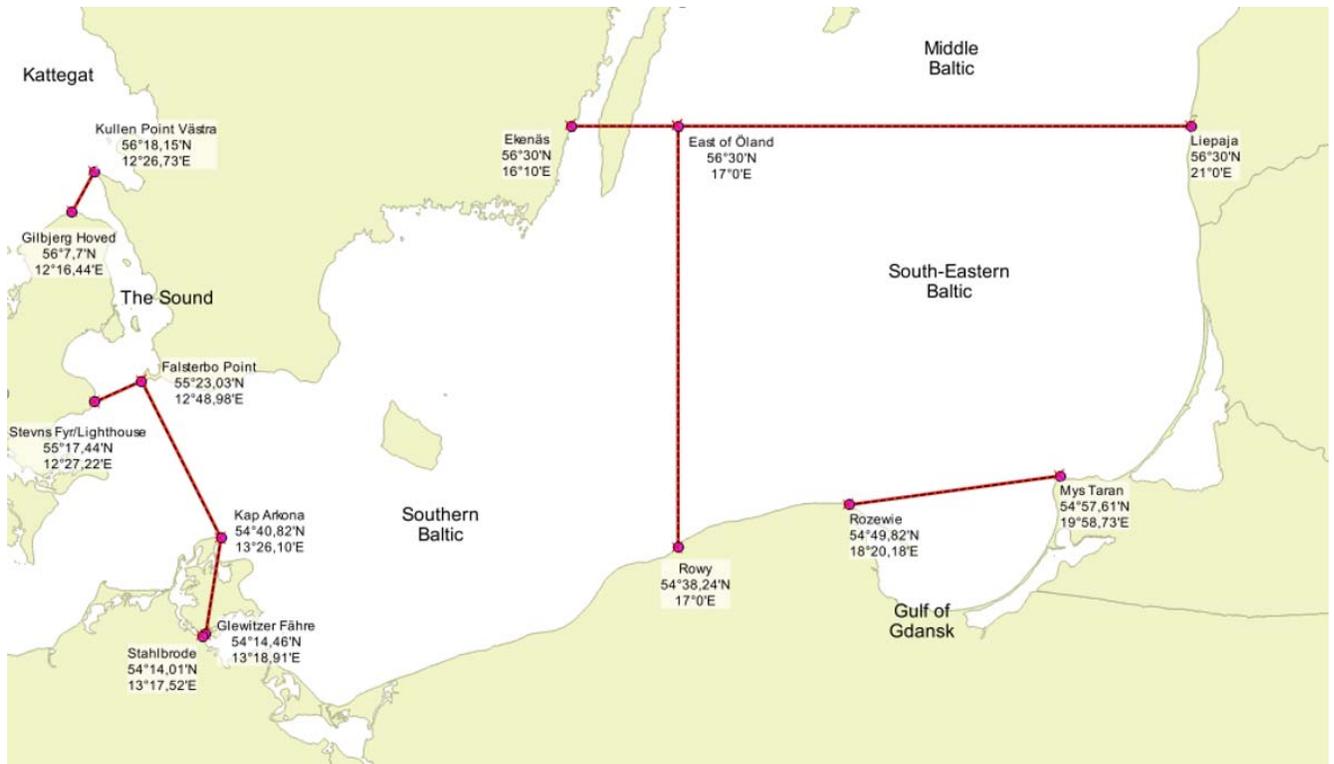
Existing coastal INT charts in scale 1:200 000.

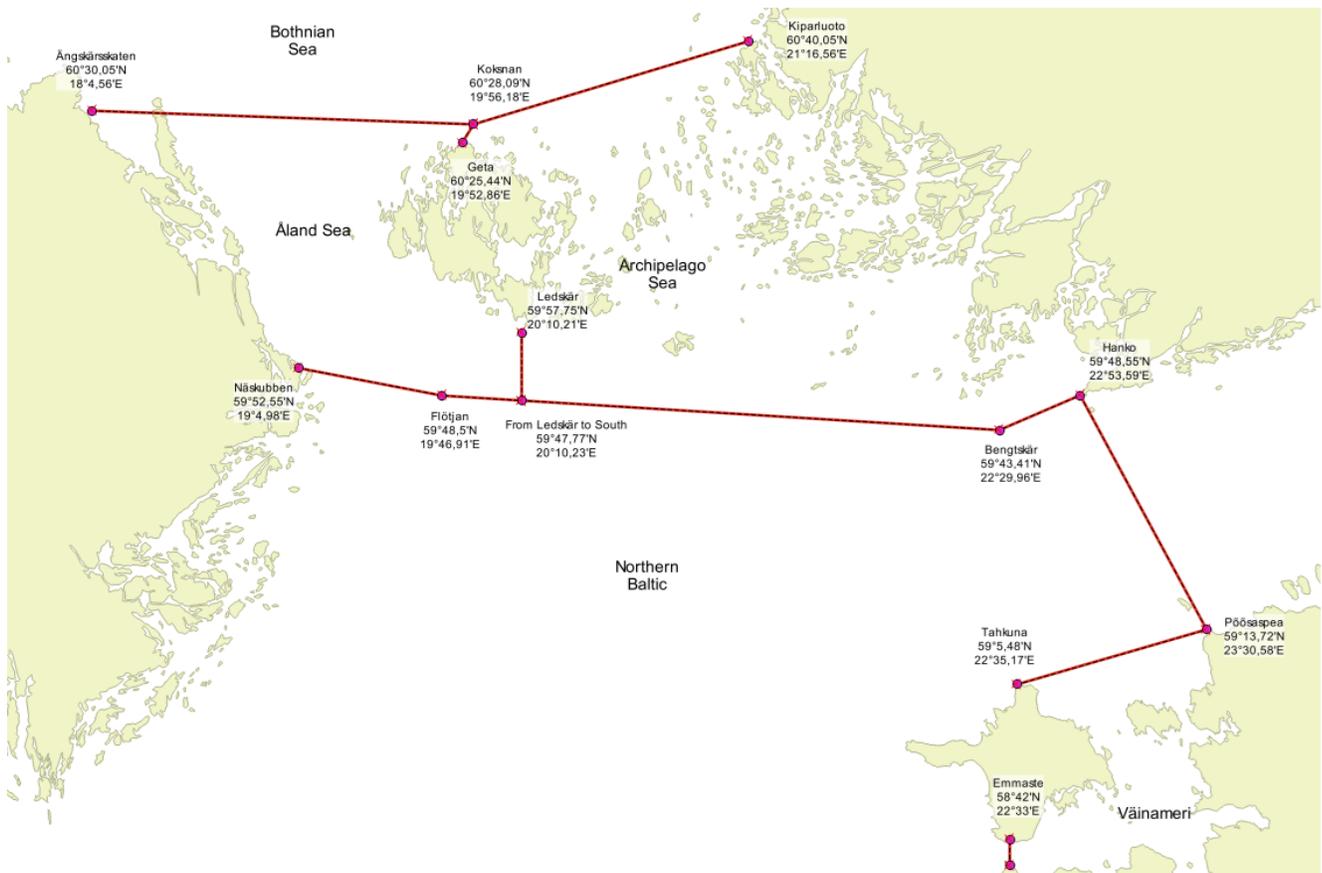
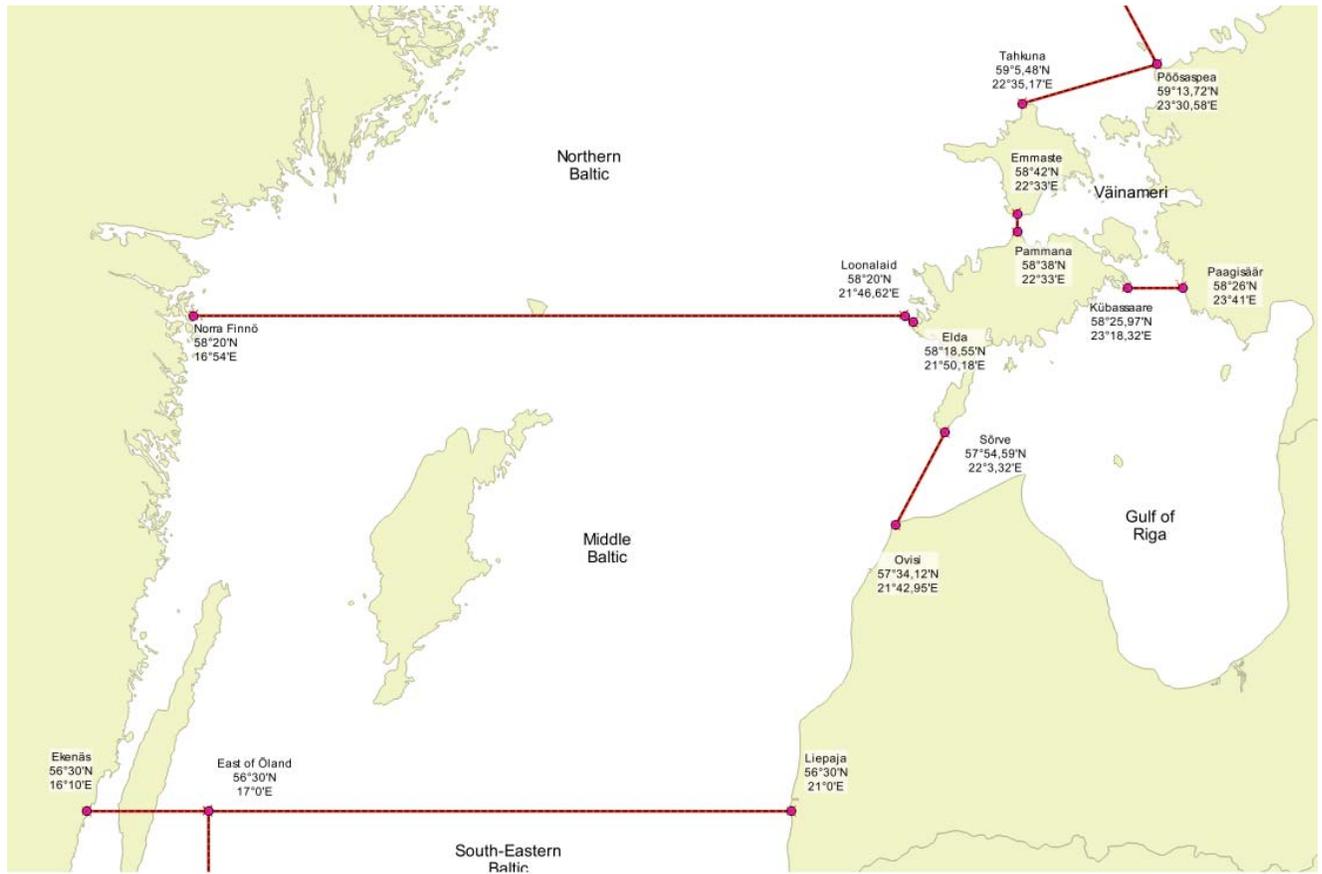
New Chart Scheme German Baltic Sea									date: 23.02.2018; new INT numbers added 02.07.2018
Official A0 Charts									
Chart	new GB Number	INT Number	Scale 1:	Scaling Lat	Lat	Lon	Format	Inner dimensions (mm)	Title
	DE98	120	1 500 000	61°N	51°50,00'	09°24,00'	portrait	749,930 x 1095,327	Baltic Sea
					67°00,00'	30°11,40'			
1/375	NC DE10	1211	375 000	54°N	53°25,0'	09°20,0'	landscape	1098,759 x 749,328	Baltic Sea, Germany, Denmark, Sweden and Poland, Flensburg to Kołobrzeg
					55°54,0'	15°37,0'			
1/150	DE30	1353	150 000	54°N	53°56,6'	09°24,5'	landscape	1096,573 x 748,862	Baltic Sea, Germany and Denmark, Flensburger Förde (Flensburg Fjord)
					54°56,5'	11°55,0'			to Mecklenburger Bucht
2/150	DE36	13520	150 000	54°N	54°05,0'	11°03,5'	landscape	1096,573 x 746,365	Baltic Sea, Germany, Denmark and Sweden, Fehmarn to Rügen
					55°04,5'	13°34,0'			
1/50	DE43	1358	50 000	54°N	54°17,6'	10°16,5'	landscape	1099,487 x 746,625	Baltic Sea, Germany and Denmark, Gabelsflach to Fehmarnsund
					54°37,5'	11°06,8'			(Fehmarn Sound)
1/50 Plan A	DE43 Plan A		6 000	54°N	54°22,20'	10°58,75'		163,939 x 190,327	Heiligenhafen
					54°22,81'	10°59,65'			
1/50 Plan B	DE43 Plan B		12 500	54°N	54°22,00'	10°58,75'		284,162 x 134,786	Entrance to Heiligenhafen
					54°22,90'	11°02,00'			
2/50	DE31	1357	50 000	54°N	54°11,5'	11°00,0'	portrait	743,192 x 1091,138	Baltic Sea, Germany and Denmark, Rødbyhavn to Dahmeshöved
					54°40,6'	11°34,0'			
2/50 Plan	DE31 Plan		30 000	54°N	54°23,20'	11°05,40'		109,293 x 93,659	Fehmarnsundbrücke (Fehmarn Sound Bridge)
					54°24,70'	11°08,40'			
3/50	DE1671	1354	50 000	54°N	54°07,8'	11°30,5'	landscape	1092,930 x 747,399	Baltic Sea, Germany and Denmark, Approaches to Rostock and
					54°27,8'	12°20,5'			Kadetrinne/Kadetrenden
4/50	DE163	13510	50 000	54°N	54°23,0'	11°54,5'	landscape	1092,930 x 748,279	Baltic Sea, Denmark and Germany, Darßer Ort to Gedser and
					54°42,9'	12°44,5'			Kadetrinne/Kadetrenden
4/50 Plan A	DE163 Plan A		25 000	56°N	54°32,55'	11°54,50'		87,350 x 171,784	Approaches to Gedser
					54°34,95'	11°56,60'			
4/50 Plan B	DE163 Plan B		8 000	56°N	54°34,10'	11°55,36'		64,992 x 87,254	Gedser
					54°34,49'	11°55,86'			
5/50	NC DE164	13420	50 000	54°N	54°34,7'	12°24,0'	landscape	1092,930 x 749,997	Baltic Sea, Germany and Denmark, Waters between Møn and Rügen
					54°54,55'	13°14,0'			
6/50	DE162	13421	50 000	54°N	54°33,6'	12°57,0'	landscape	1099,487 x 747,760	Baltic Sea, Germany and Denmark, Waters north of Rügen
					54°53,4'	13°47,3'			
7/50	DE151	13430	50 000	54°N	54°05,0'	13°34,0'	portrait	743,192 x 1095,773	Baltic Sea, Germany, Approaches to Sassnitz and River Peene
					54°34,3'	14°08,0'			
8/50	DE1511	1343	50 000	54°N	54°01,3'	13°06,0'	landscape	1092,930 x 745,431	Baltic Sea, Germany, Greifswalder Bodden
					54°21,3'	13°56,0'			
8/50 Plan A	DE1511 Plan A		12 500	54°N	54°08,70'	13°38,50'		104,921 x 107,244	Lubmin
					54°09,42'	13°39,70'			
8/50 Plan B	DE1511 Plan B		6 000	54°N	54°07,75'	13°34,25'		63,754 x 124,069	Vierow
					54°08,15'	13°34,60'			
8/50 Plan C	DE1511 Plan C		6 000	54°N	54°06,05'	13°26,50'		118,401 x 139,484	Ladebow
					54°06,50'	13°27,15'			
1/30	DE26	13600	30 000	54°N	54°44,7'	09°25,0'	landscape	1092,930 x 744,907	Baltic Sea, Germany and Denmark, Flensburger Förde (Flensburg Fjord)
					54°56,5'	09°55,0'			
1/30 Plan	DE26 Plan		12 500	54°N	54°47,20'	9°25,20'		236,073 x 348,139	Flensburg
					54°49,50'	9°27,90'			
2/30	NC DE28	13601	30 000	54°N	54°39,5'	09°50,0'	landscape	1092,930 x 749,619	Baltic Sea, Germany and Denmark, Kalkgrund to Schleimünde

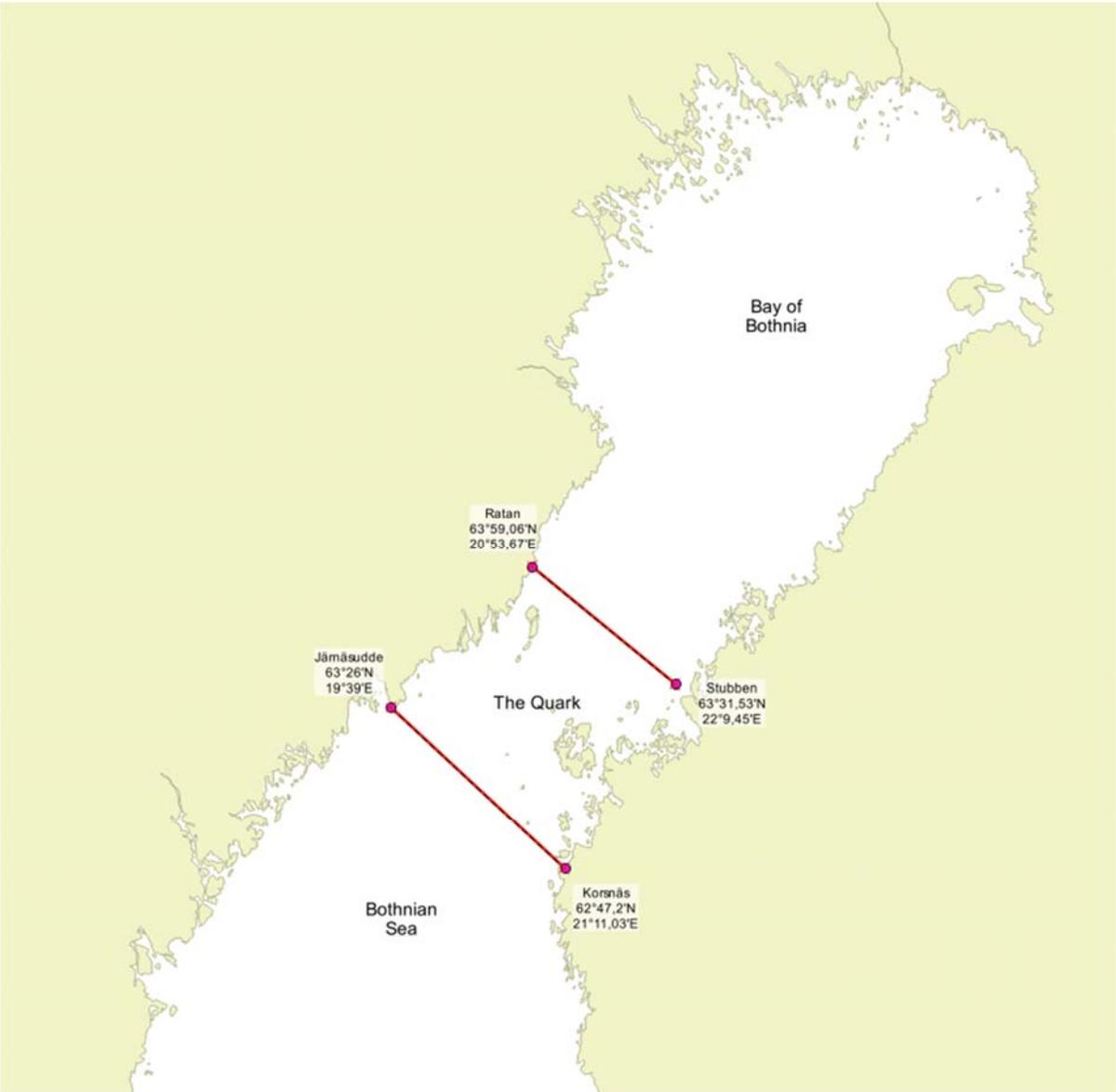
New Chart Scheme German Baltic Sea

3/30	DE32	13590	30 000	54°N	54°51,4'	10°20,0'	portrait	746,835 x 1097.759	Baltic Sea, Germany, Approaches to Eckernförde
					54°26,5'	09°49,5'			
3/30 Plan	DE32 Plan		6 000	54°N	54°44,0'	10°10,0'		413,492 x 175,146	Eckernförde and Kranzfelder Hafen
					54°28,10'	9°49,95'			
4/30	DE33	13591	30 000	54°N	54°28,66'	9°52,22'	portrait	746,835 x 1096,362	Baltic Sea, Germany and Denmark, Approaches to Kiel
					54°23,4'	10°06,6'			
5/30	DE35	13561	30 000	54°N	54°40,9'	10°27,1'	portrait	746,835 x 1096.203	Baltic Sea, Germany, Approaches to Neustadt and Travemünde
					53°55,0'	10°45,0'			
5/30 Plan	DE35 Plan		12 500	54°N	54°12,7'	11°05,5'		122,408 x 185,944	Neustadt
					54°05,20'	10°47,80'			
6/30	NC DE38	13560	30 000	54°N	54°06,45'	10°49,20'	landscape	1092,930 x 744,884	Baltic Sea, Germany, Waters between Dahmeshöved and Wustrow
					54°03,5'	11°03,5'			
7/30	DE37	13562	30 000	54°N	54°15,5'	11°33,5'	landscape	1092,930 x 742,184	Baltic Sea, Germany, Approaches to Wismar
					53°54,5'	11°03,5'			
1/12.5	DE34	1365	12 500	54°N	54°06,5'	11°33,5'	portrait	743,192 x 1092,908	Baltic Sea, Germany, Kieler Förde
					54°18,00'	10°06,1'			
1/12.5 Plan A	DE34 Plan A		6 000	54°N	54°25,30'	10°14,6'		182,155 x 230,938	Plüschowhafen
					54°22,66'	10°09,60'			
1/12.5 Plan B	DE34 Plan B		6 000	54°N	54°23,40'	10°10,60'		136,616 x 162,088	Ostuferhafen
					54°19,85'	10°09,90'			
1/12.5 Plan C	DE34 Plan C		6 000	54°N	54°20,37'	10°10,65'		300,556 x 398,852	Ostseekai to Bahnhofskai
					54°18,65'	10°07,90'			
2/12.5	DE51	1362	12 500	54°N	54°19,93'	10°09,55'	portrait	743,192 x 1097,019	Baltic Sea, Germany, Travemünde and Approaches
					53°53,6'	10°49,9'			
2/12.5 Plan	DE51 Plan		6 000	54°N	54 01,0'	10°58,4'		400,741 x 497,176	Travemünde
					53°56,17'	10°51,30'			
3/12.5	DE52	1363	12 500	54°N	53°57,78'	10°53,50'	landscape	1092,930 x 747,508	Baltic Sea, Germany, River Trave to Lübeck
					53°51,00'	10°40,0'			
4/12.5	DE1641	13610	12 500	54°N	53°56,05'	10°52,5'	portrait	743,192 x 1097,019	Baltic Sea, Germany, Entrance to Wismar
					53°53,6'	11°19,5'			
4/12.5 Plan	DE1641 Plan		6 000	54°N	54°01,0'	11°28,0'		291,448 x 256,006	Wismar
					53°53,62'	11°26,30'			
5/12.5	DE1672	1355	12 500	54°N	53°54,45'	11°27,90'	portrait	743,192 x 1094,746	Baltic Sea, Germany, Rostock
					54°05,3'	12°02,5'			
5/12.5 Plan	DE1672 Plan		6 000	54°N	54°12,65'	12°11,0'		205,835 x 369,509	Warnemünde
					54°10,05'	12°05,12'			
6/12.5	DE1579	13440	12 500	54°N	54°11,24'	12°06,25'	portrait	743,192 x 1091,441	Baltic Sea, Germany, Stralsund
					54°14,7'	13°04,2'			
7/12.5	DE1516	13450	12 500	54°N	54°22,0'	13°12,7'	landscape	1092,930 x 743,759	Baltic Sea, Germany, Sassnitz
					54°28,0'	13°34,0'			
8/12.5	DE1512	13431	12 500	54°N	54°32,95'	13°46,5'	portrait	743,192 x 1093,309	Baltic Sea, Germany, Wolgast
					54°02,05'	13°41,0'			
					54°09,40'	13°49,5'			
Following 10 INT-numbers will be frozen for 5 years (at least)									
INT1342, INT1344, INT1345, INT1351, INT1352, INT1356, INT1359, INT1360, INT1361, INT1364									











## Three different levels



Level 1:



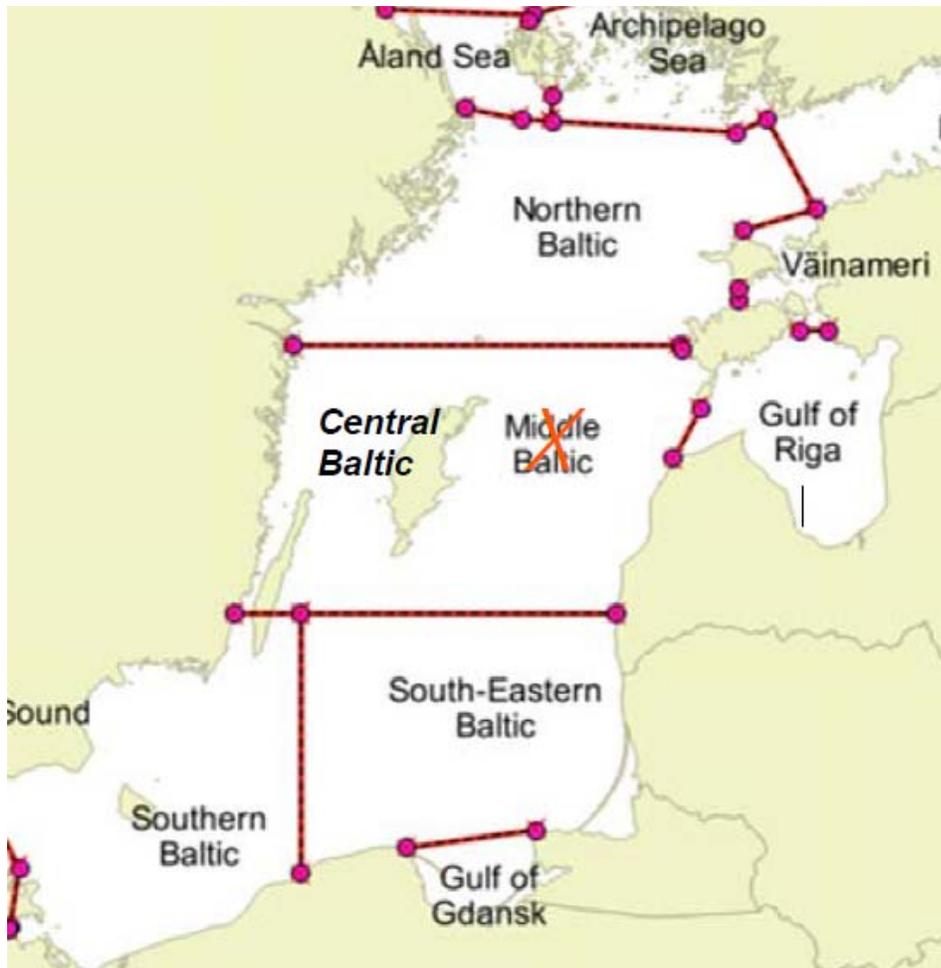
Level 2:



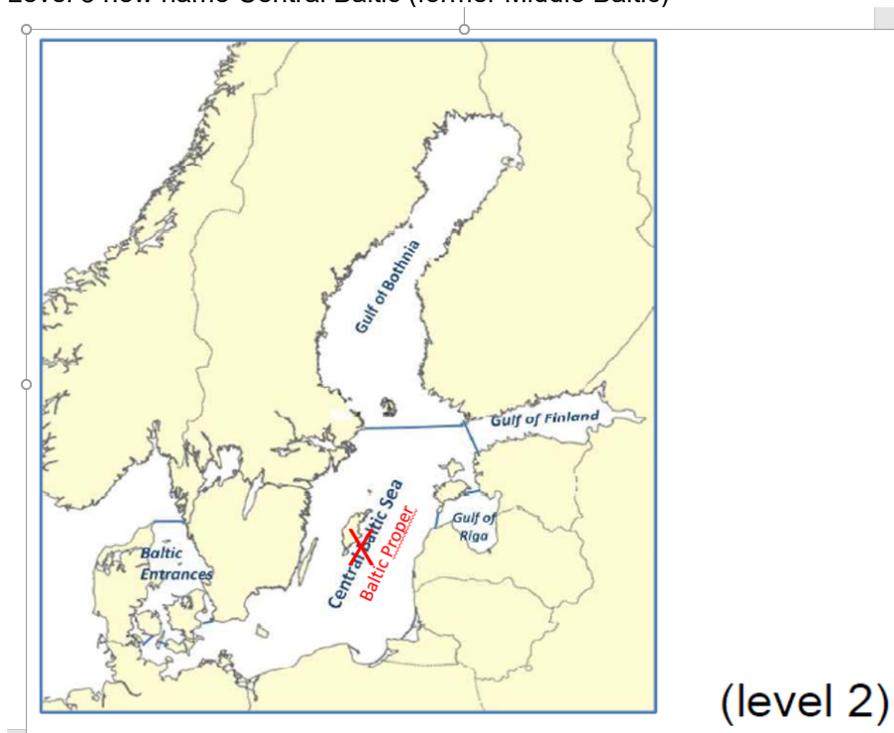
Level 3:

Change for names of the areas:

ANNEX 5



Level 3 new name Central Baltic (former Middle Baltic)

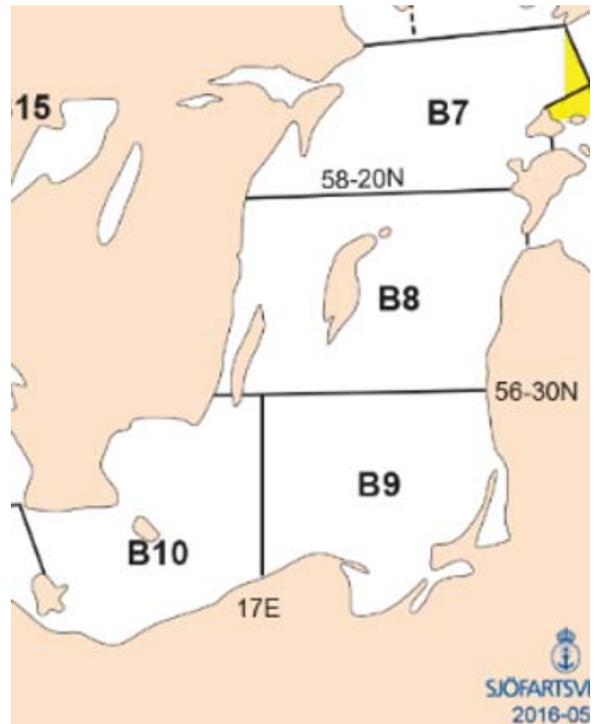
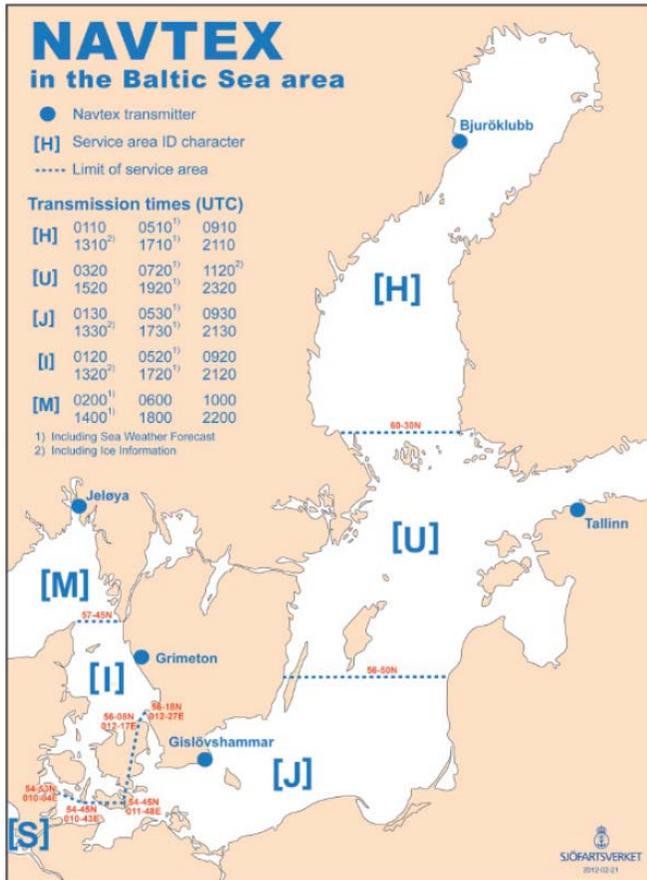
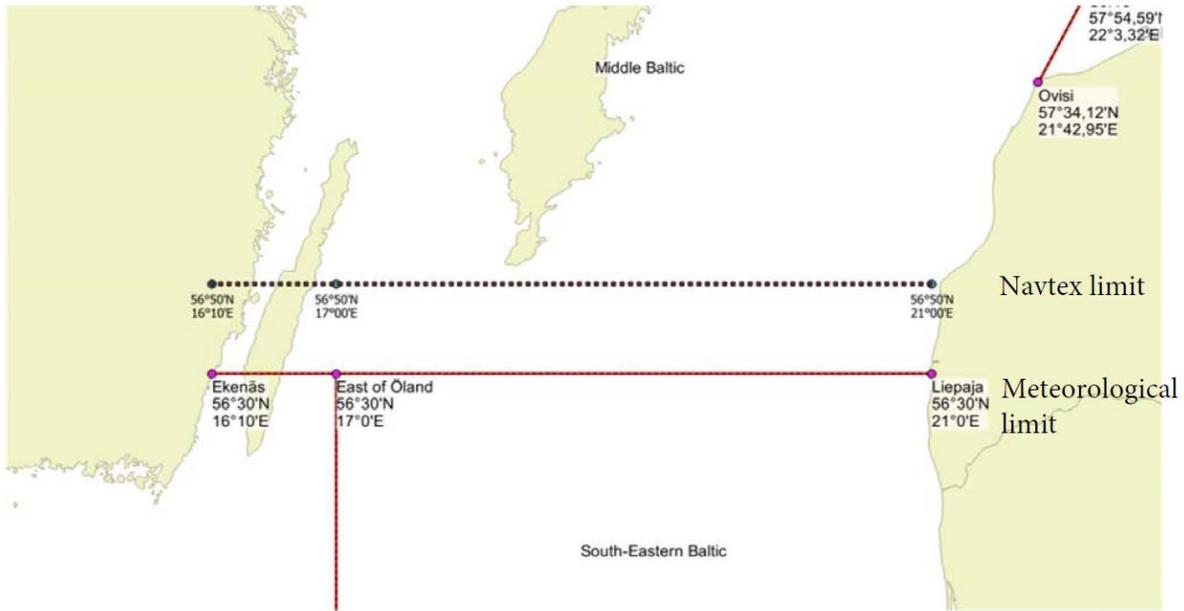


(level 2)

Level 2 new name Baltic Proper (former Central Baltic Sea)



Proposal to move a limit for the Middle Baltic



Annex 7

Overlaps in Baltic sea (analysis made by UKHO for WENDWG8 Mar 2018)

Overlaps 2016				Overlaps 2017			Ports Not Covered (from IHO Ports Ga	
Scale	Cellname	Cellname 1	Usage Band	Cellname	Cellname 1	Usage Band	Port Name	Country
1500000	PL2MP500	DE216000	2	PL2MP500	DE216000	2	BOLSHAYA PIRYU GUBA	RU
180000	PL3MP153	DK3BQRNH	3	PL3B3000	DE316004	3		
180000	RU3NCJP9	LT382001	3	RU3NCJP9	LT382001	3		
90000	RU3NCJP9	PL3K0030	3	RU3NCJP9	PL3K0030	3		
90000	RU3NCJP9	PL3MP151	3	RU3NCJP9	PL3MP151	3		
90000	DK4LGLGS	DE416050	4	RU3NSKI9	EE3D0201	3		
90000	DK4LILBS	DE416012	4	RU3NSKI9	EE3D0403	3		
22000	RU4NDJS8	PL4MAP41	4	DK4GSMON	DE416072	4		
22000	RU400KM9	FI4EJV2	4	DK4LGLGS	DE416050	4		
22000	SE4DHwHE	DK4GSMON	4	RU4NDJS8	PL4MAP41	4		
22000	SE4DHwHE	DK4SUNDT	4	RU400KM9	FI4EJV2	4		
22000	SE4DHwHG	DK4GSMON	4	RU401KN9	FI4EJV2	4		
22000	SE4DHYPE	DK4SUNDT	4	SE4DHwHE	DK4GSMON	4		
22000	SE4DI0XC	DK4KATGS	4	SE4DHwHE	DK4SUNDT	4		
22000	SE4DI0XE	DK4SUNDT	4	SE4DHwHG	DK4GSMON	4		
22000	SE5IHZTE	DK5HLSNS	5	SE4DHYPE	DK4SUNDT	4		
22000				SE4DI0XC	DK4KATGS	4		
22000				SE4DI0XE	DK4SUNDT	4		
22000				SE5IHZTE	DK5HLSNS	5		

RHC	"Live Overlaps" - Overall Severity of Risk				TOTAL
	LOW	MEDIUM	HIGH	UNASSESSED	
ARHC	2 (2)			0(1)	2 (3)
ARHC/EAHC	4 (0)				4 (0)
BSHC	6 (3)	0 (1)			6 (4)
EAHC	45 (20)	27 (1)		0 (24)	72 (45)
EAHC/SWPHC	2 (0)				2 (0)
EAHC/USCHC	0 (2)				0 (2)
HCA	1 (2)				1 (2)
MACHC	1 (1)				1 (1)
MBSHC	81 (72)	24 (20)		0 (16)	105 (108)
NHC	3 (6)				3 (6)
NIOHC	5 (1)	0 (1)			5 (2)
NSHC	9 (2)				9 (2)
ROPME	3 (0)	4 (1)		0 (2)	7 (3)
ROPME/NIOHC	4 (2)	1 (0)			5 (2)
SAIHC	3 (1)	2 (0)		0 (1)	5 (2)
SEPHC	0 (0)	0 (1)			0 (1)
SWPHC	3 (3)				3 (3)
USCHC	1 (0)	0 (1)			1 (1)
<b>Total</b>	<b>173 (117)</b>	<b>58 (26)</b>	<b>0</b>	<b>0 (44)</b>	<b>231 (187)</b>

## IC-ENC REGIONAL HYDROGRAPHIC COMMISSION OVERLAP REPORT - BALTIC SEA RHC - JULY 2018

ID	STATUS	RENC Membership	RHC	ENC 1	ENC 2	Usage Band	ENC 1 Scale	ENC 2 Scale	ENC 1 EN (ER)	ENC 2 EN (ER)	Overlap extent (Kmxkm) (m/square NM)	Content difference	Geog. Location	Shipping density	Size	Scale	Route patterns	ECDIS	Overall Severity of Risk	Justification	Action requested	RHC Comments
450	LIVE	IC-ENC - PRIMAR	BSHC	DK2BORNH	SE2BHS1S	2	180000	180000	38(0)	57(3)	65mx650m	LOW	MEDIUM	LOW	LOW	MEDIUM	LOW	LOW	LOW	Overlap on band 2 coverage, relatively small area. No data other than DEPARRE within area	DK to amend geometry to remove overlap.	
8	LIVE	IC-ENC - PRIMAR	BSHC	DK3BORNH	PL3MP153	3	90 000	90 000	38(0)	7 (38)	130+m at the widest part	LOW	MEDIUM	HIGH	LOW	MEDIUM	MEDIUM	MEDIUM	LOW	Overlap is small and in deep water with no channels. Overlap is too thin to contain any soundings or contradictory information.	HOs to discuss and resolve overlaps	
418	LIVE	IC-ENC	BSHC	DK3BORNH	DE316004	3	90000	90000	38(0)	11(11)	5.2m	LOW	MEDIUM	HIGH	LOW	MEDIUM	MEDIUM	MEDIUM	LOW	Overlap is small, the result of an erroneously captured vertex along national boundary.	HO to delete excess vertex.	
6	LIVE	IC-ENC - PRIMAR	BSHC	DK4GSMON	SE4DHWHE	4	22 000	22 000	44(0)	47 (2)	9m	LOW	MEDIUM	HIGH	LOW	HIGH	HIGH	MEDIUM	LOW	Thin overlap between different producers, mainly within the permitted 5 wide tolerance not exceeding 10m wide. Overlap is middle of the channel.	HOs to discuss and resolve overlaps	
7	LIVE	IC-ENC - PRIMAR	BSHC	DK4GSMON	SE4DHWHG	4	22 000	22 000	44(0)	20 (0)	10m	LOW	MEDIUM	HIGH	LOW	HIGH	HIGH	MEDIUM	LOW	Thin overlap between different producers, mainly within the permitted 5 wide tolerance not exceeding 10m wide. Overlap is middle of the channel.	HOs to discuss and resolve overlaps	
3	LIVE	IC-ENC	BSHC	DK4LGLGS	DE416030	4	22 000	22 000	47 (0)	9 (10)	5mx73km	LOW	MEDIUM	MEDIUM	LOW	HIGH	HIGH	MEDIUM	LOW	Thin overlap between different producers, mainly within the permitted 5 wide tolerance not exceeding 10m wide. Overlap is middle of the channel.	HOs to discuss and resolve overlaps	
4	LIVE	IC-ENC	BSHC	DK4LGLGS	DE416050	4	22 000	22 000	47 (9)	10 (26)	5m x 20km	LOW	MEDIUM	HIGH	LOW	HIGH	HIGH	MEDIUM	LOW	Thin overlap between different producers, mainly within the permitted 5 wide tolerance not exceeding 10m wide. Overlap is middle of the channel.	HOs to discuss and resolve overlaps	
447	ACCEPT	IC-ENC - PRIMAR	BSHC	DK2SUNDT	SE2BHS1C	2	180000	180000	57(0)	31(0)	1m	LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH	MEDIUM	ACCEPT	1m Overlap along the national border.		
5	ACCEPT	IC-ENC	BSHC	DK4LILBS	DE416012	4	22 000	22 000	53 (10)	3 (1)	8.8m x 23Km	LOW	HIGH	LOW	LOW	MEDIUM	HIGH	MEDIUM	ACCEPT	A thin overlap between different producers, just over permitted 5m tolerance. Overlap is in middle of channel. As of 22/03/18, the buoy which sits on the external edge corresponds to both cells coordinates.	HOs to discuss and resolve overlaps	

Rec. #	Recommendation	Denmark	Estonia	Finland	Germany	Latvia	Lithuania	Poland	Russia	Sweden
#1	1a) Overview navigational purpose should be in harmony with other navigational purposes within the producers' portfolios.  1b) The Overview cell should be harmonised with adjacent cells in the North Sea.									
#2	The Harbour and Berthing navigational purposes should be in harmony with other navigational purposes within the producers' portfolios									
#3	On the Baltic Sea, the following values for the compilation scales should be used: General - 180,000; Coastal - 90,000; Approach - 22,000.									
#4	If a Hydrographic Office (HO) wants to use a compilation scale other than those recommended above, it may do so if all the following conditions are met:  i) the value used is in line with the intention of the IHO CL 47/2004  ii) use of it is agreed bilaterally with neighbouring HO(s) concerned, in order to avoid inconsistencies at the border, and  iii) every effort is made to minimise possible inconsistencies due to deviations from the recommended compilation scale.									
#5	BSHC should adopt the guidelines as stated in the Annex J.									
#6	6a) The BSEHWG proposes that the BSHC establishes a Working Group to study possibilities for Harmonisation of the Conveying and Presentation of Depth Information for both ENCs and paper charts.									

Rec. #	Recommendation	Denmark	Estonia	Finland	Germany	Latvia	Lithuania	Poland	Russia	Sweden
	6b) Meanwhile, if the IHO recommended contour intervals are not applicable, or if additional intervals are needed, implementation should be agreed bilaterally/multilaterally so that possible inconsistencies to the mariners could be avoided.									
#7	All BSHC countries should ensure that bilateral <del>agreements</del> arrangements are in place with their neighbouring countries concerning harmonisation of features continuing/extending over national borders.									
#8	All BSHC countries should check and carry out harmonisation before launching updates or new editions of ENC's.									
#9	All BSHC countries should check that there are no gaps between cells at national borders by establishing a buffer zone of up to 5 metres, if necessary.									
#10	The BSHC should agree on joint plans and time schedules for the adoption of new versions of ENC related standards (e.g. S-57 Ed. 3.1.1 or S-101).									
#11	The BSHC should agree on joint plans and a time schedule for the adoption of new object classes on their products.									
#12	12a) BSHC should encourage all countries to make further studies of the use of objects in the Baltic Sea ENC's and report to the following BSHC meeting.  12b) BSHC should decide on proper actions to ensure ENC consistency as far as possible.									
#13	If found necessary it is possible to deviate from the recommendations. When doing so, the relevant HO should make every effort to minimise the effect of any inconsistencies that may occur. This should be done through bilateral/multilateral agreements and through harmonisation of data in order to ensure that no serious disharmony is introduced to the ENC's.									

Rec. #	Recommendation	Denmark	Estonia	Finland	Germany	Latvia	Lithuania	Poland	Russia	Sweden
#14	BSHC should ask the IHO Committee on Hydrographic Requirements for Information Systems (CHRIS) to consider appropriate actions to recommend other Regional Hydrographic Commissions (RHCs) to adopt regional implementations to IHO consistency recommendations within their sea areas.									
#15	All relevant bodies are encouraged to continue the education of mariners regarding 'ECDIS', 'ECS', 'ENC' and 'Electronic chart'.									
#16	All BSHC countries should follow the time schedule for the implementation of all relevant recommendations as stated in Annex L.									
#17	Reporting of the implementation of the recommendations									

**Explanation of the status classes**

Status	Meaning	Example
<b>Completed</b>	Recommendation completed. No actions to BSHC members. No need to follow up any more.	Recommendation #14 has been completely done. Recommendation may be deleted in the Summary Table.
<b>Adopted</b>	Recommendation included in the ENC production process.	Rec. #9: before releasing new cells or editions to check that there are no gaps or overlaps (over 5 m buffer)
<b>Partially Adopted</b>	Recommendation included partially in the ENC production process (e.g. for some scale ranges or some products).	Rec #3 implemented only for some scale ranges.
<b>Not applicable now</b>	Recommendation not relevant to a MS or for the time being.	Rec #10 may be valid e.g. when S-101 is introduced into use
<b>Unclear</b>	No information available or information not clear.	No or unclear status information received from a MS.