Baltic Sea International Charting Coordination Working Group (BSICCWG)

BSICCWG Report to the BSHC 24th 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:

Denmark	*Mr Peter Ladegaard Sørensen*
Denmark	*Mr Kell Torp Jensen*
Estonia	*Ms Gabriela Kotsulim*
Estonia	*Ms Maris Akkerman*
Finland	*Mr Jarmo Mäkinen*
Finland	*Mr Jukka Helminen*
Germany	*Ms Sylvia Spohn*
Latvia	*Ms Linda Purina*
Latvia	*Ms Ilze Driksne*
Lithuania	*Ms Alla Bira*
Poland	*Mr Jacek Kijakowski,*
Poland	*Mr Adam Klosinski*
Russia	*Capt Sergey Egorov*
Sweden	*Ms Anita Bodin*
Sweden	*Mr Hans Engberg*

Last meeting (BSICCWG6) took place in Riga, Latvia 3-4 April 2019.

BSICCWG TOR's and ROPs have been adopted in BSHC23 and are now in line with the IHO generic IHO TOR and ROP for ICCWGs

Membership; Maris Akkerman and Gabriela Kotsulim from Estonia will be members of the group for at least the next two years. Adam Klosinski will replace Stanislaw Pietrzak as a Polish member and Kell Torp Jensen will replace Suzanne Karlsson as a Danish representative.

2. BSICCWG6- meeting 3-4 April 2019, Riga Latvia.

The agenda of the BSICCWG6 meeting was divided into two parts; paper chart issues (first day) and ENC related items (second day).

INT Chart Web Catalogue; Updating of S-11 Part B, Region E
INToGIS Web Tool is in use in every Baltic member state (except Russia). Member states reported experiences of using the tool. The updating process is working well, even though the approval process was seen as a bit lengthy, because changes need to be approved in three different steps.

There was a discussion about who should update the printer nation status (new edition date) and how does the producing nation know when the printer nation prints the new chart. Some members have not updated the printer nation status since they have not had the information.
However, it was recommended by the WG, that the producer nation will also update printer nation information (to prevent locking issues, for example). It was also provided a link to an updated list of UKHO new editions.

Latest edition of the Baltic Sea database is now from June 2019.

S-11, Part B, Region E, Ed. 3.0.13., June 2019, English
- link to **INT Chart Web Catalogue**

Project INToGIS Phase II
Development phase II of INT Chart Web tool was seen very welcome and promising. Baltic Sea has been one the testing areas. Feedback was collected from BSICCWG members and sent to IHO. Development phase II will contain:
- ENC scheme management procedures (S-11)
- Base map for Polar regions (Artic & Antarctic)
- Additional layers for world ports (based on Us publication P150)
- AIS traffic information
- Connection between IHO ENC catalogue and INToGIS
- User Feedbacks from HOs, regional coordinators (experimentation phase; late 2018), EAtHC&MBSHC (France), ARHC (Norway), BSHC (Finland)
- Improve the chart display functions

The Project is slightly late from the original schedule but will be use during Autumn 2019. The Workshop for Charting Regions Coordinators will take place in Stockholm, Sweden, on Monday 4 November afternoon, back-to-back with the 5th meeting of the NCWG (5-8 November 2019, Sweden).

Baltic Sea INT Scheme- Status of New INT Charts/Numbers
Since the last report (BSICCWG report to BSHC23) there were no significant changes in the Baltic Sea INT chart Scheme. Several new editions of existing charts have published by all member states. Some of last reported new INT charts have been published.

In order to prepare for the new Routeing System in Kattegat and Skagerrak (July 1st 2020) Denmark has shift the Coordinates of the Danish Chart 101, INT 1301. DK will also make a couple of new charts but have already reserved INT chart numbers.

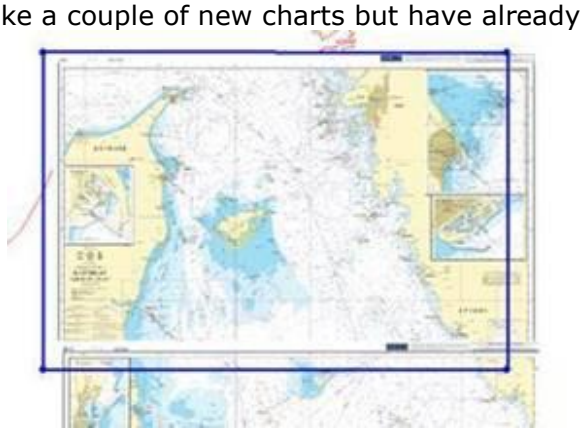


Fig 1. INT 1301 (1:200 000).

Germany is continuing the renewal of INT scheme. Seventeen new INT-numbers have been allocated to Germany; INT1211, INT13420, INT13421, INT13430, INT13431, INT13440, INT13450, INT13510, INT13520, INT13560, INT13561, INT13562, INT13590, INT13591, INT13600, INT13601, INT13610.

Poland has published 4 new charts: INT12901, INT12902, INT12991 and INT12992. Previous numbers (1290, 1299) are frozen.

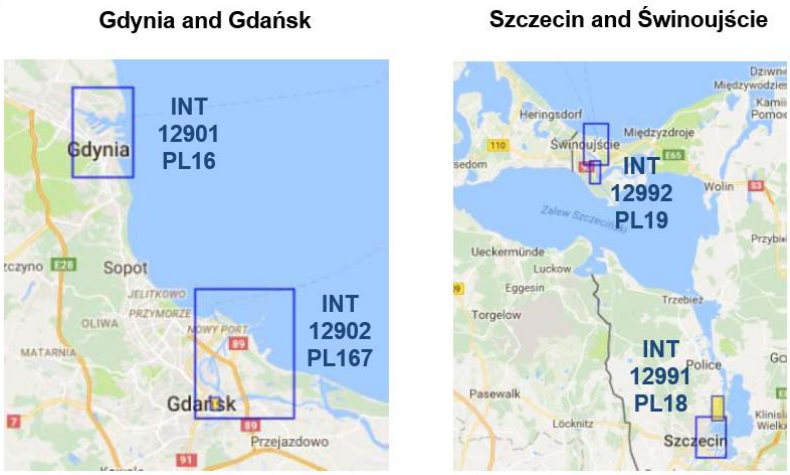


Fig 2. INT12901, INT12902, INT12991, INT12992).

Sweden has published new INT chart INT1220 (1:250 000) to better service New Routeing System in Kattegat.

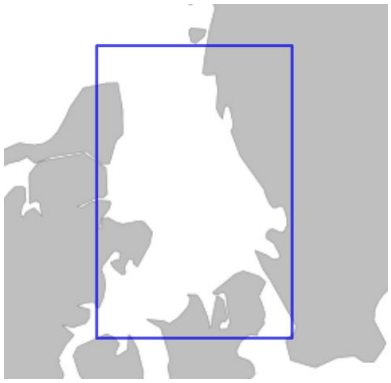


Fig 3. INT1220 (1:250 000).

Baltic Sea sub-ares-coordinates
See chapter 4.

Revised Management, Review and Monitoring of New INT Charts *(IHO CL64/2015).*
Process is continuing in the Baltic Sea**.**

AOB
Status of INT1
Germany presented the issue about giving up producing official English-version of INT1. Latest version of INT1 was produced 2018. Germany has informed that it will update it until the Assembly 2. There were no immediate volunteering members in the group to take the responsibility of producing INT1, but it was proposed, that all members should consider the issue at their offices.

Status of ENC Coverage in Baltic Sea. Baltic Sea ENC –scheme
The new version of IHO ENC Catalogue and new RENC data flow diagram was presented by chair.

Baltic Sea ENC coverage was reviewed by member states. As soon as INToGIS II is commissioned, RHCs are asked to define and adopt ENC Schemes as it is done for INT Charts Schemes (WENDWG9 action 16).

ENC Scheme status reports;

Latvia: *Latvia will first finish the implementation of Caris HPD first and after that come back to this issue*.
Estonia: *No planned coverage changes*
Sweden: *No plans to extend to coverage. Sweden improves their ENCs by adding maritime boundaries to all new ENC editions and they are also improving the description of CATZOC.*
Poland: *Poland is still planning to extend approach and berthing coverage. On coastal scale, they are waiting new data from surveys*.
Denmark: *Denmark is planning new coastal cells as part of the Kattegat project. These cells are planned to come out within a year. Denmark has also produced many new harbor cells and more are coming 2019*.
Finland: *Finland has plans to extend their coastal coverage but the schedule is not yet clear.*
Germany: *No changes in the Baltic Sea area.*
Russian coverage was briefly reviewed. There is a small gap in the coverage in Kaliningrad area.

Gaps and Overlaps Analysis from WENDWG9
Gaps and overlaps analysis from WENDWG9 was reviewed. Many of reported overlaps were seen as technical issues and not navigationally significant. It was agreed that every member-state will report the BSICCWG chair about the overlap cells reported in this list and what they will do with those overlaps (overlap by overlap) and consider if reported overlaps are a risk or not.

There will be some practical reasons to increase existing overlap buffer-limit (5 m), especially in scale bands 1, 2 and 3. It has been agreed in NHC63, to make a proposal to next WENDWG (WENDWG10) to extent the buffer limit.

NHC 63 action 26: To make a proposal to WENDWG about extended buffer limit for ENC overlaps (5 m), especially in smaller scale bands (1, 2 and 3) (SE-WENDWG10).

List of Ports

The IHO ENC Catalogue's list of ports and WENDWG report of ports not covered by ENCs was reviewed. According the WENDWG9 (action 6) RHCs/HOs are invited to report to NGA about inconsistencies need to be corrected in the List of Ports (based on the NGA P 150). It was agreed, that BSICWG members will review the existing list and send feedback to BSICCWG chair, who will forward information to NGA.

Baltic Sea ENC Harmonisation Recommendations
Two updates for Status of the ENC harmonization recommendations was done;
The recommendation number nine was marked green (done) for Poland and recommendation number 13 was marked green from Denmark.

It was seen, that this list is today coming as a historical check list, which is not worth to modify more detailed now.

S-100 products- publication plans

There was a discussion about the plans of the member states with the S-100 products in the future. It not just an issue about conversion from S-57 to S-101. The need for a regional concept with timeline and focus was discussed. It would be good to have a strategic vision on what should be done and in what schedule in the Baltic Sea.

It should be considered in the BSHC, what kind of working groups could be used for harmonization and coordination of S-100 production in the Baltic Sea area.

3. BSHC 23 Actions

24.	17.	D.2	to further **work** on the proposal to change the limit between Baltic Sea and North Sea	BSICCWG	BSHC 24

The charting limit between the Charting Region D (North Sea) and the Charting Region E (Baltic Sea) has been defined very imprecisely. There are some strong arguments to adjust a limit between Kattegat and Skagerrak (see Annex 1);

1. The new proposed limit will follow the weather forecast areas in the region. See https://www.smhi.se/en/weather/sweden-weather/sea-weather-forecast#ws=wpt-a,proxy=wpt-a,lang=en,area=none
2. The new proposed limit will follow the Notice to Mariners and Navigational warnings areas. See http://www.sjofartsverket.se/en/Maritime-services/Hydrographic-Information/NtM---Notices-to-mariners/
3. The new proposed limit will follow the limit defined in the existing IHO version of S-23.

   2.—Kattegat, Sound and Belts.

   On the North.

   A line joining Skagen (The Skaw, North Point of Denmark) and Paternoster Skær (57°54' N, 11°27' E) and thence Northeastward through the shoals to Tjörn Island.
4. The new proposed limit has been used for defining which INT-chart belongs to Region D respective Region E in the IHO INT chart regime.

Coordinates proposed are N57° 45.0′ and E10° 36.0′ to N57° 57.0′ and E11° 47.5′.

Any chart product between Region D and E will not change. It is not changing the boundary between charting Region E and D in practice, but merely refines current

coordinates to follow other limits of areas, which are in use (S-23, Notices to Mariners, Meteorological limits etc).

The matter has been dealt with as follows (after BSHC23):

- Discussion In BSICCWG6 meeting (Apr 2019)
- More detailed arguments from Sweden (Apr 2019)
- Feeback from NSICCWG members (July 2019)
- Feedback from IHO (July 2019)
- Feedback for the NCWG chair (Aug 2019)

There were no objections for to the change/modify the charting limit between charting Region D and E.
When/if approved in BSHC;
->formal proposal (with benefits) to NCWG
->modifications for limits to S-4 (A.204), S-11, ENC Catalogue.

25.	18.	D.2	to further **develop** the proposal for adjustment of coordinates level 3	BSICCWG	BSHC 24

Proposal to adjust a limit between Central Baltic and South-Eastern Baltic

The limit between Central Baltic and South-Eastern Baltic/Southern Baltic is proposed to shift (move) a little bit up to North (**from 56°30'N** -> to **56°35'N**. As a result it is not 'dividing' Liepaja harbour anymore. See Annex 2.

6. Future work of BSICCWG

The future work of BSICCWG will consist:

- ✓ To take into use INToGIS development phase II tools..
- ✓ 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 Maintain and adopts ENC schemes in Baltic.
- ✓ To update List of Ports.
- ✓ 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

Germany has kindly offered to host the BSICCWG7 (11-12.11.2020) meeting in Rostock.

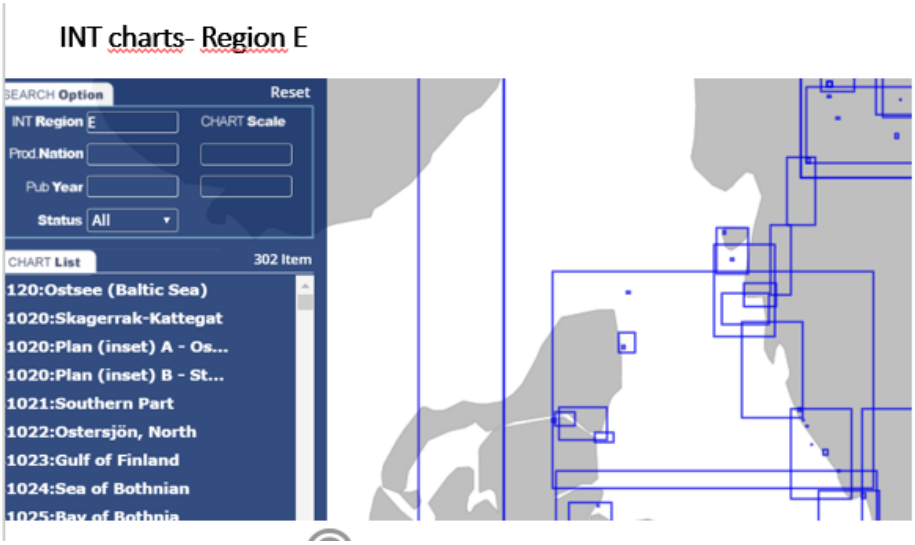
8. Actions for the BSHC 24th Conference

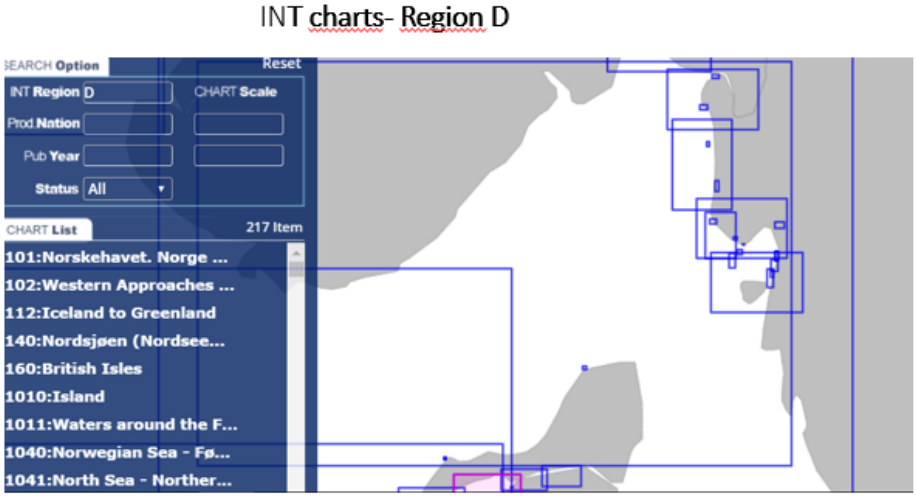
- Note this report.
- Endorse/approve proposal to change charting limit between Charting Region D (North Sea) and Charting Region E (Baltic Sea)
- Approve the proposal to adjust a limit between Central Baltic and South-Eastern Baltic.
- Approve proposed coordinates for level 3 (Annex 3 and 4).
- To discuss whether there is a need for a regional concept with timeline and focus for S-100 production in Baltic Sea.
- Give further guidance on future work of WG.

Annexes

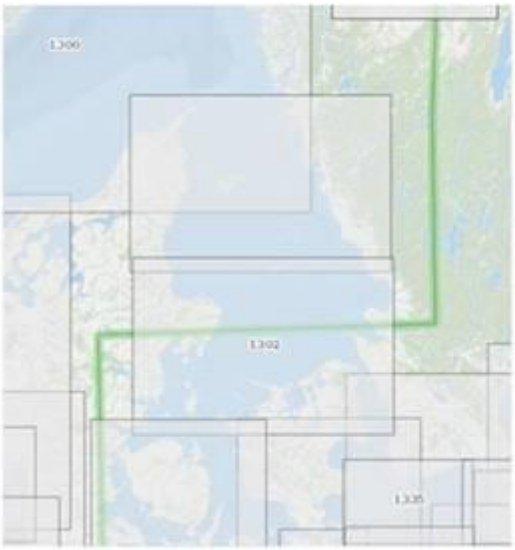
Annex 1 Charting limit between Region D and Region E
Annex 2 Limit between Central Baltic/South-Eastern Baltic (Southern Baltic).
Annex 3 Baltic Sea Sub-areas.
Annex 4 List of coordinates for the Baltic Sea sub areas, level 3
Annex 5 Status of ENC harmonisation recommendations.

Annex 1 Charting limit between Region D and Region E



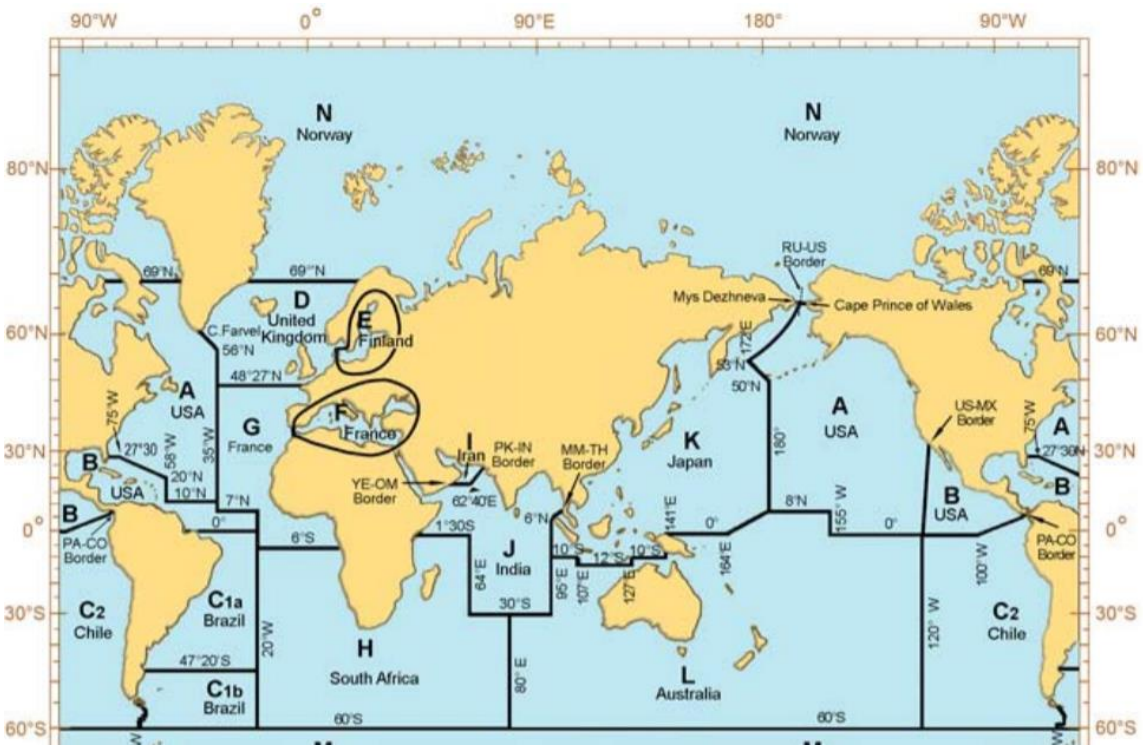


IHO S-11



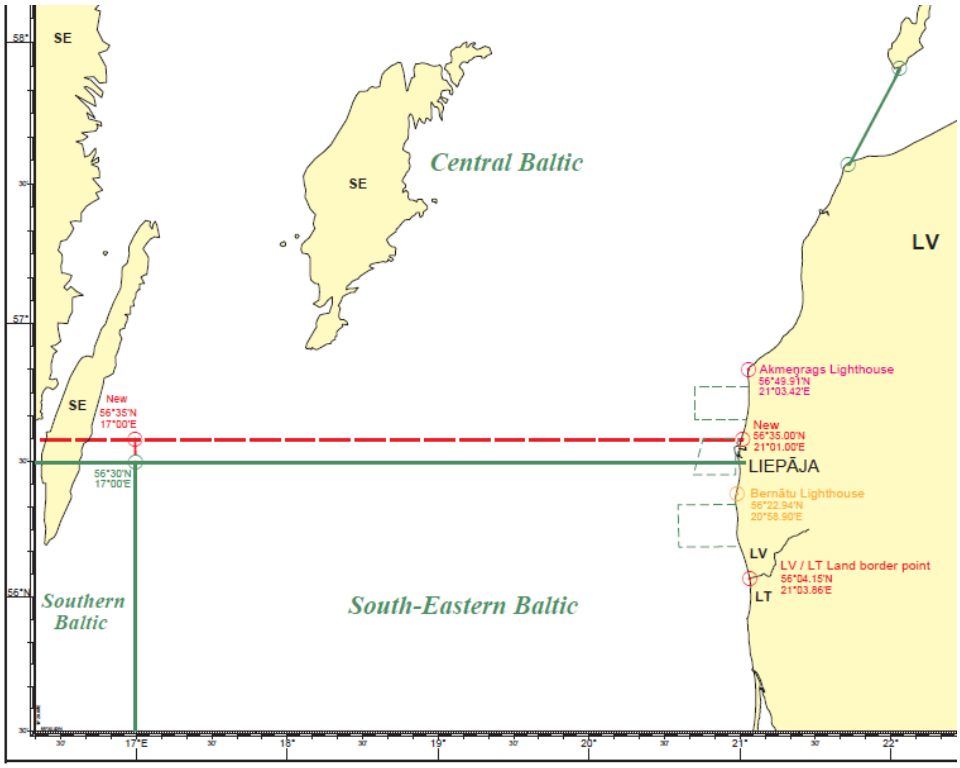
IHO ENC Catalogue

S-4

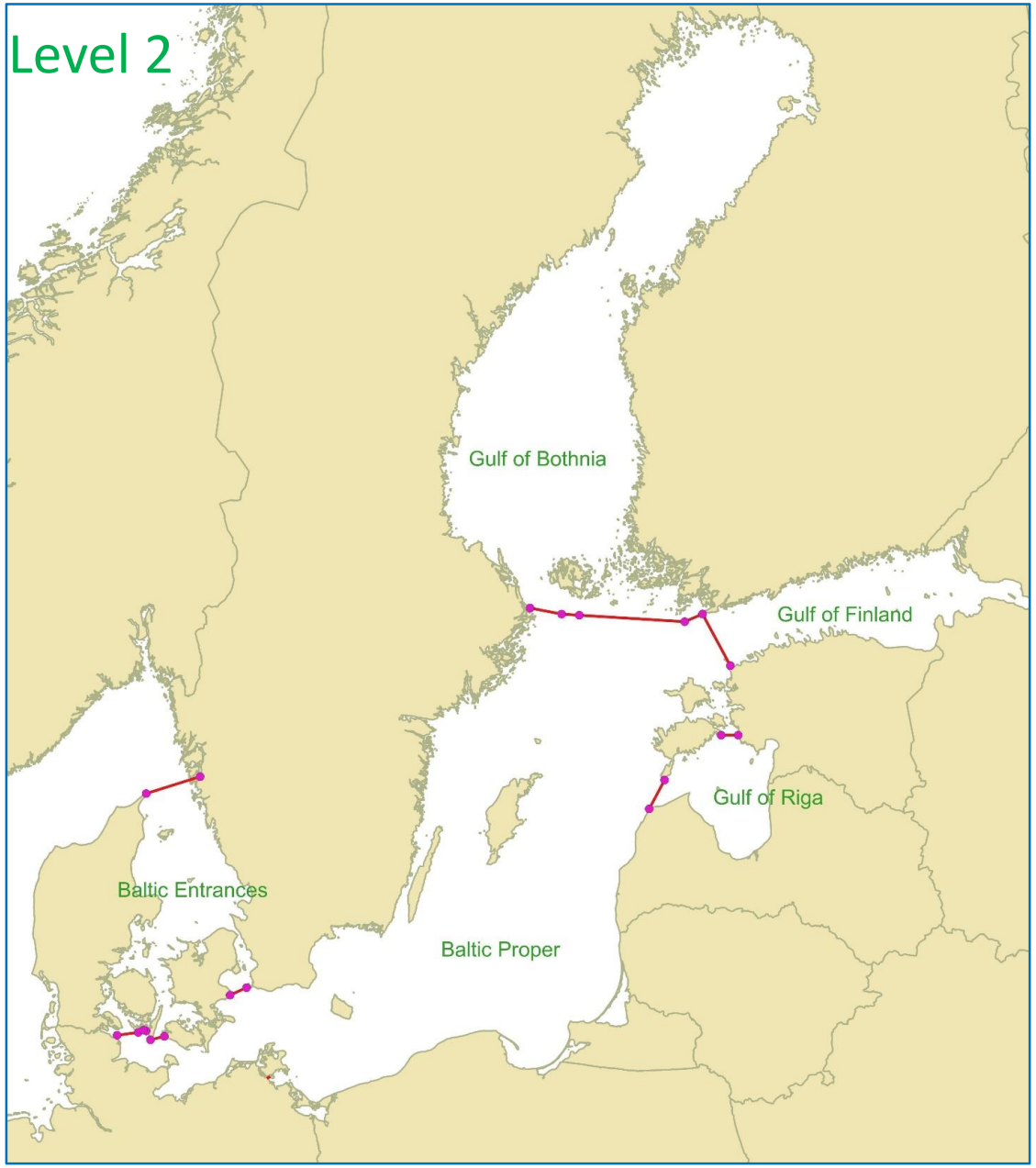


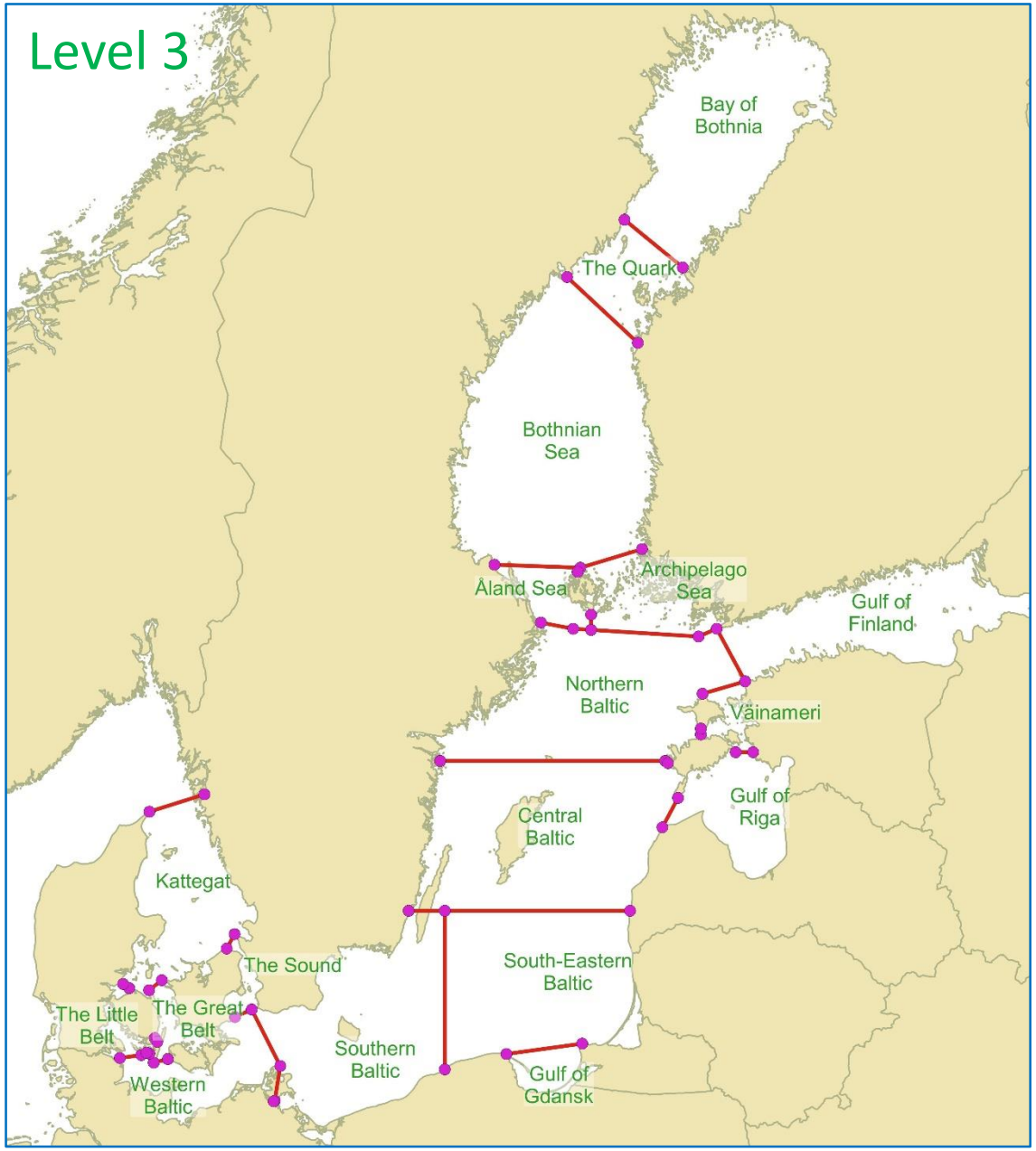
ANNEX 2

Limit between Central Baltic/South-Eastern Baltic/ Southern Baltic



Annex 3. Baltic Sea sub-areas.

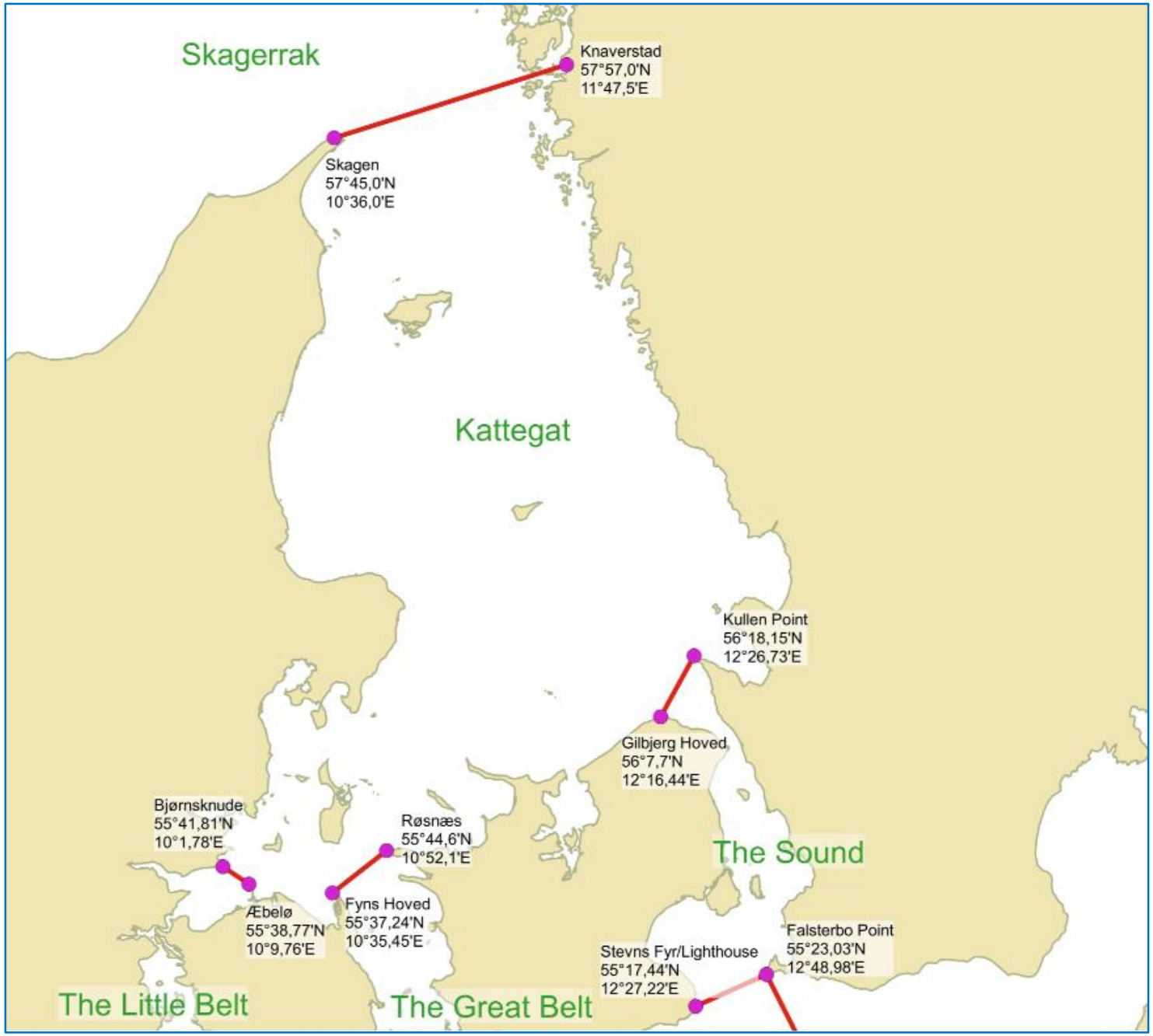




Level 3

Kattegat

	Name	Lat	Lon	The border point	Country
1	Skagen	57°45.0'N	10°36.0'E	Kattegat, North Sea	DK
2	Knaverstad	57°57.0'N	11°47.5'E	Kattegat, North Sea	SE
3	Gilbjerg Hoved	56°7.7'N	12°16.44'E	Kattegat, The Sound	DK
4	Kullen Point	56°18.15'N	12°26.73'E	Kattegat, The Sound	SE
5	Røsnæs	55°44.6'N	10°52.1'E	Kattegat, The Great Belt	DK
6	Fyns Hoved	55°37.24'N	10°35.45'E	Kattegat, The Great Belt	DK
7	Æbelø	55°38.77'N	10°9.76'E	Kattegat, The Little Belt	DK
8	Bjørnsknude	55°41.81'N	10°1.78'E	Kattegat, The Little Belt	DK



Level 3

The Great Belt, The Sound,

The Little Belt,

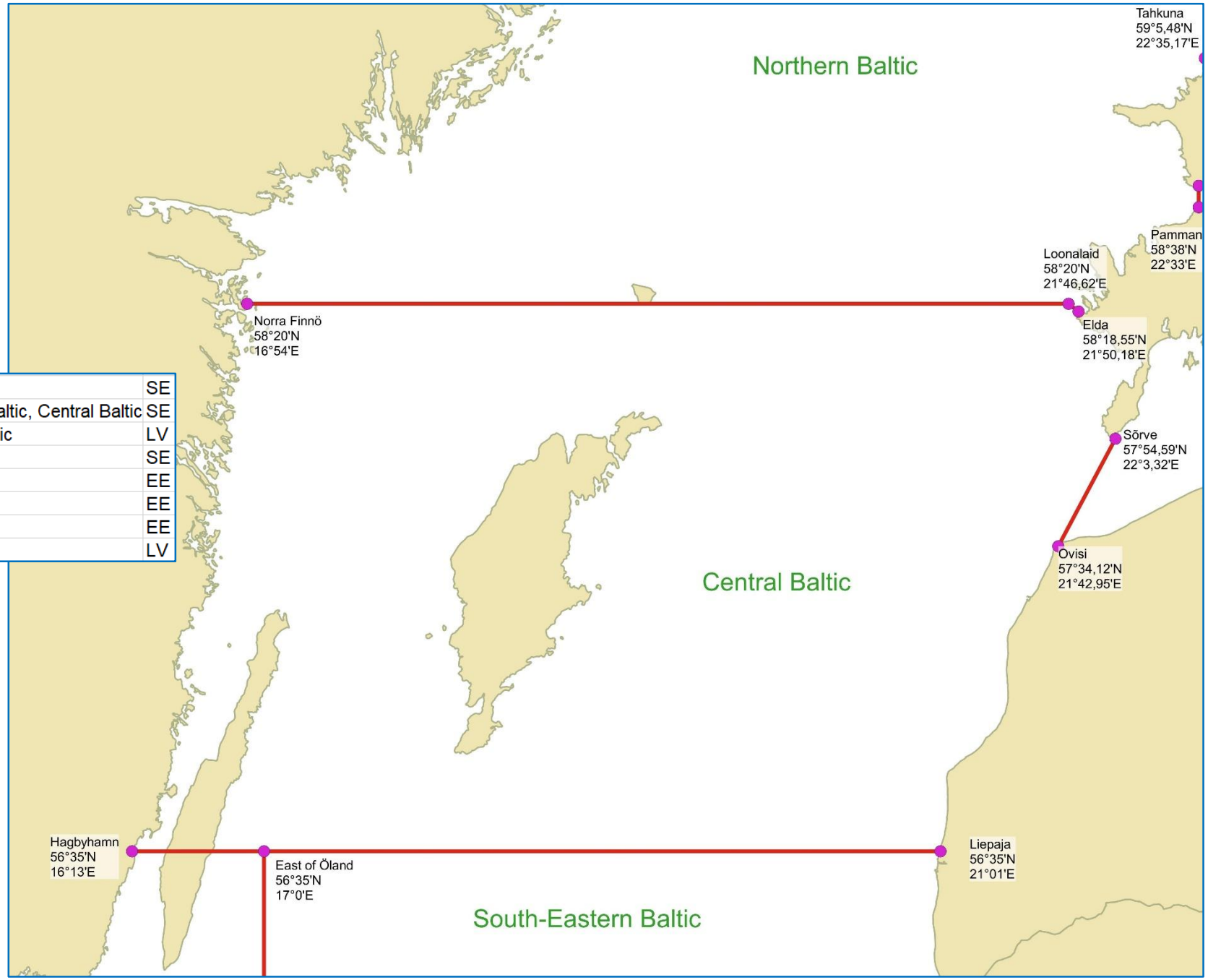
Western Baltic

3	Gilbjerg Hoved	56°7.7'N	12°16.44'E	Kattegat, The Sound	DK
4	Kullen Point	56°18.15'N	12°26.73'E	Kattegat, The Sound	SE
5	Røsnæs	55°44.6'N	10°52.1'E	Kattegat, The Great Belt	DK
6	Fyns Hoved	55°37.24'N	10°35.45'E	Kattegat, The Great Belt	DK
7	Æbelø	55°38.77'N	10°9.76'E	Kattegat, The Little Belt	DK
8	Bjørnsknude	55°41.81'N	10°1.78'E	Kattegat, The Little Belt	DK
9	Falsthöft	54°46.79'N	9°57.42'E	The Little Belt, Western Baltic	DE
10	Vejsnæs Nakke	54°49.03'N	10°25.39'E	The Little Belt, Western Baltic	DK
11	Dovns Klint	54°43.33'N	10°41.62'E	The Great Belt, Western Baltic	DK
12	Kappel	54°46'N	11°0'E	The Great Belt, Western Baltic	DK
13	Thurø Rev	55°1.8'N	10°43'E	The Little Belt, The Great Belt	DK
14	Næshoved	54°58.95'N	10°46.17'E	The Little Belt, The Great Belt	DK
15	Stevns Fyr/Lighthouse	55°17.44'N	12°27.22'E	The Sound, Western Baltic	DK
16	Falsterbo Point	55°23.03'N	12°48.98'E	The Sound, Western Baltic	SE
17	Kap Arkona	54°40.82'N	13°26.10'E	Western Baltic, Southern Baltic	DE
18	Glewitzer Fähre	54°14.46'N	13°18.91'E	Western Baltic, Southern Baltic	DE
19	Stahlbrode	54°14.01'N	13°17.52'E	Western Baltic, Southern Baltic	DE

Level 3

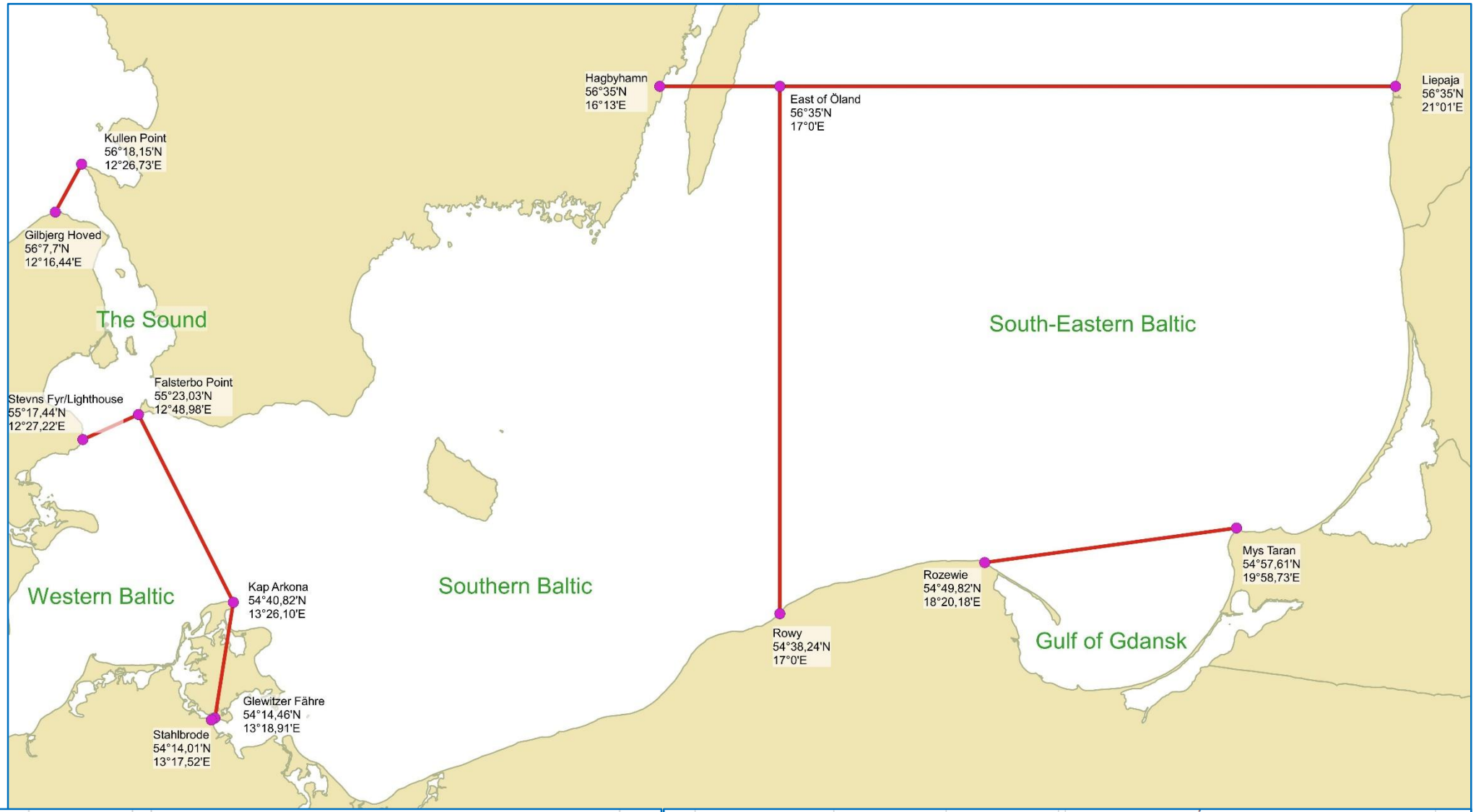
Central Baltic

20	Hagbyhamn	56°35'N	16°13'E	Southern Baltic, Central Baltic	SE
21	East of Öland	56°35'N	17°0'E	South-Eastern Baltic, Southern Baltic, Central Baltic	SE
22	Liepaja	56°35'N	21°01'E	South-Eastern Baltic, Central Baltic	LV
23	Norra Finnö	58°20'N	16°54'E	Central Baltic, Northern Baltic	SE
24	Loonalaid	58°20'N	21°46.62'E	Central Baltic, Northern Baltic	EE
25	Elda	58°18.55'N	21°50.18'E	Central Baltic, Northern Baltic	EE
26	Sõrve	57°54.59'N	22°3.32'E	Gulf of Riga, Central Baltic	EE
27	Ovisi	57°34.12'N	21°42.95'E	Gulf of Riga, Central Baltic	LV



Level 3

Southern Baltic, Gulf of Gdansk, South –Eastern Baltic



15	Stevns Fyr/Lighthouse	55°17.44'N	12°27.22'E	The Sound, Western Baltic	DK
16	Falsterbo Point	55°23.03'N	12°48.98'E	The Sound, Western Baltic	SE
17	Kap Arkona	54°40.82'N	13°26.10'E	Western Baltic, Southern Baltic	DE
18	Glewitzer Fähre	54°14.46'N	13°18.91'E	Western Baltic, Southern Baltic	DE
19	Stahlbrode	54°14.01'N	13°17.52'E	Western Baltic, Southern Baltic	DE
20	Hagbyhamn	56°35'N	16°13'E	Southern Baltic, Central Baltic	SE
21	East of Öland	56°35'N	17°0'E	South-Eastern Baltic, Southern Baltic, Central Baltic	SE
22	Liepaja	56°35'N	21°01'E	South-Eastern Baltic, Central Baltic	LV

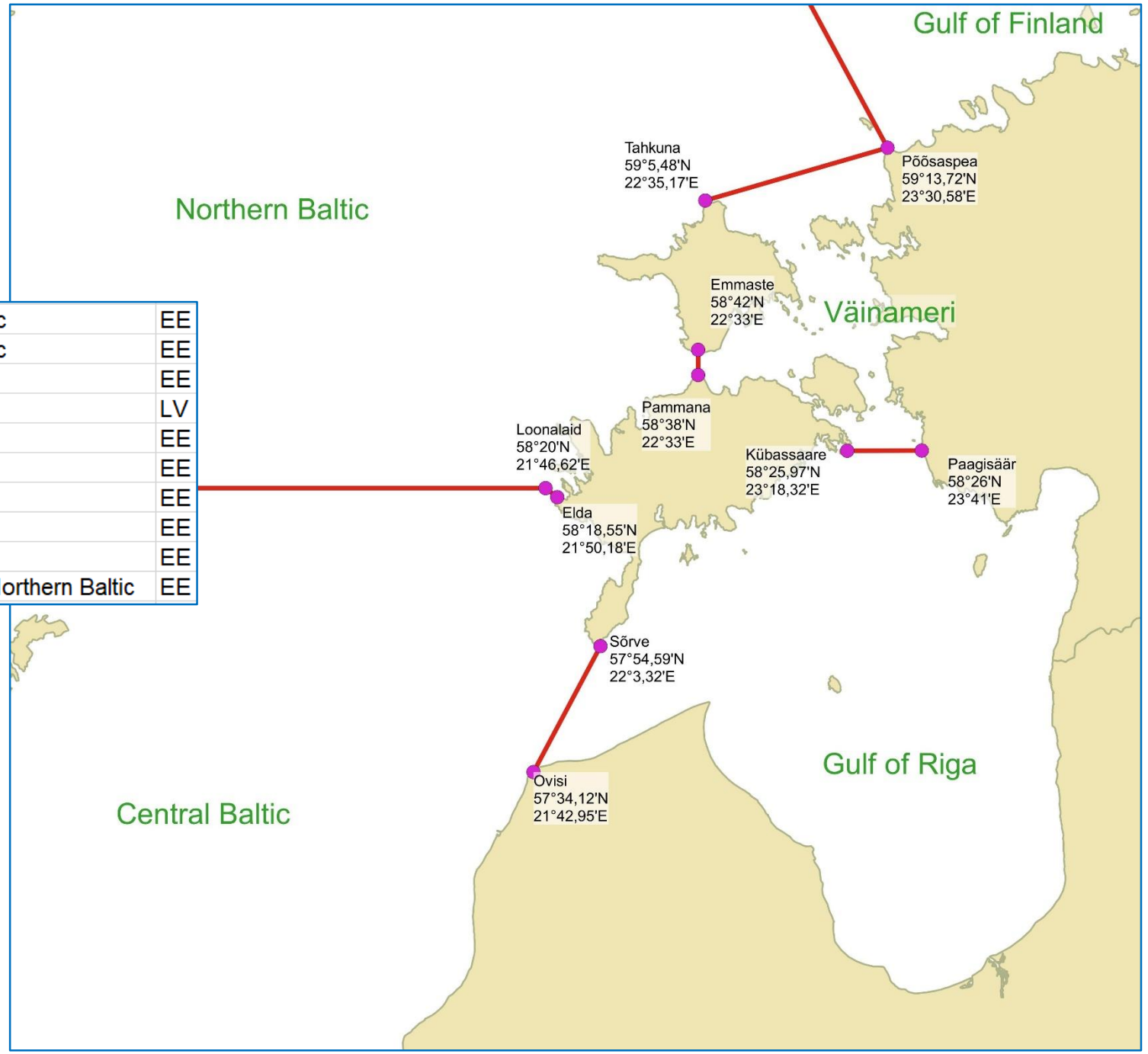
50	Mys Taran	54°57.61'N	19°58.73'E	Gulf of Gdansk, South Eastern Baltic	PL
51	Rozewie	54°49.82'N	18°20.18'E	Gulf of Gdansk, South Eastern Baltic	PL
52	Rowy	54°38.24'N	17°00.00'E	South-Eastern Baltic, Southern Baltic	PL

Level 3

Gulf of Riga,

Väinameri

24	Loonalaid	58°20'N	21°46.62'E	Central Baltic, Northern Baltic	EE
25	Elda	58°18.55'N	21°50.18'E	Central Baltic, Northern Baltic	EE
26	Sõrve	57°54.59'N	22°3.32'E	Gulf of Riga, Central Baltic	EE
27	Ovisi	57°34.12'N	21°42.95'E	Gulf of Riga, Central Baltic	LV
28	Kübassaare	58°25.97'N	23°18.32'E	Gulf of Riga, Väinameri	EE
29	Paagisäär	58°26'N	23°41'E	Gulf of Riga, Väinameri	EE
30	Pammana	58°38'N	22°33'E	Väinameri, Northern Baltic	EE
31	Emmaste	58°42'N	22°33'E	Väinameri, Northern Baltic	EE
32	Tahkuna	59°5.48'N	22°35.17'E	Väinameri, Northern Baltic	EE
33	Põõsaspea	59°13.72'N	23°30.58'E	Väinameri, Gulf of Finland, Northern Baltic	EE



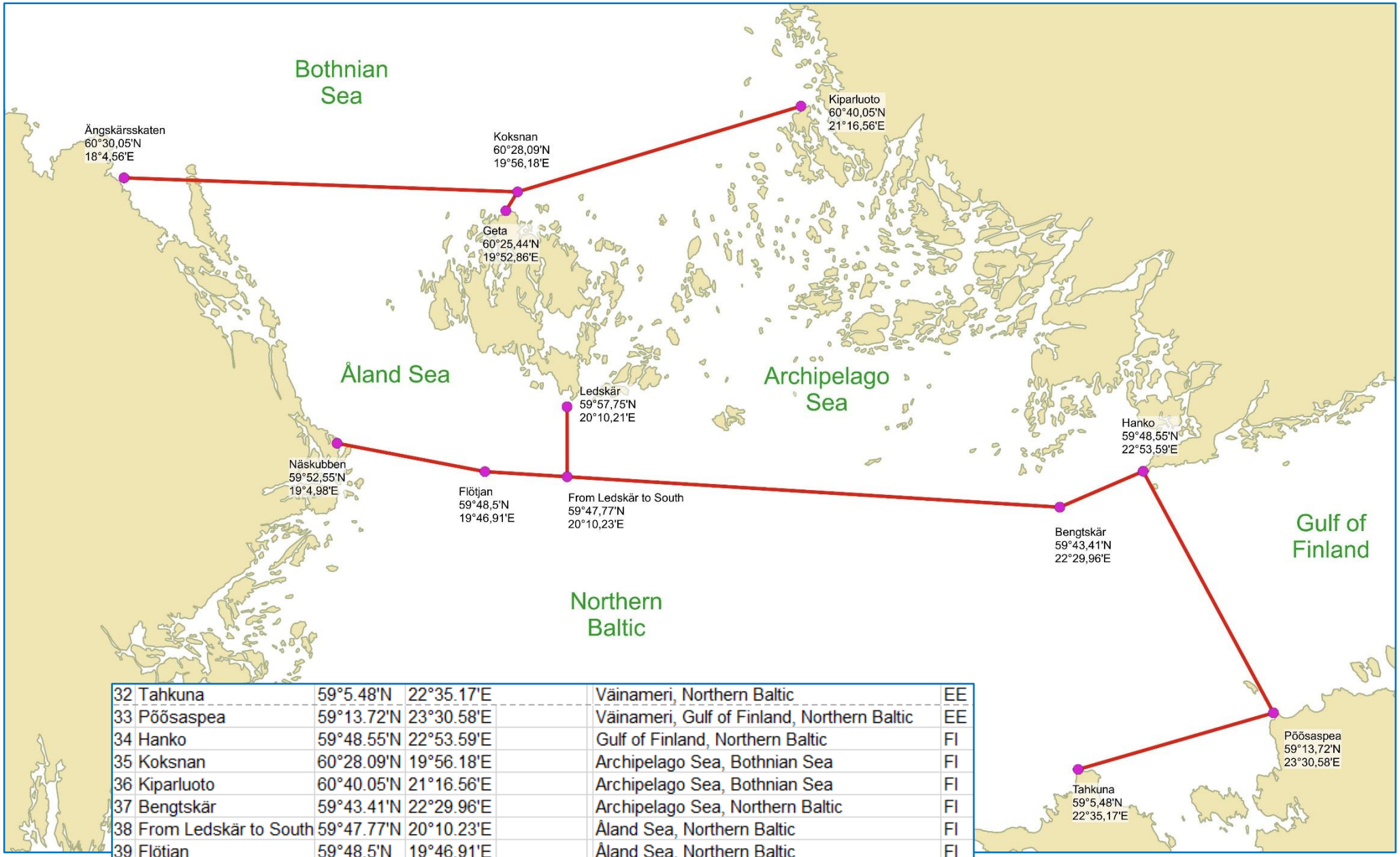
Level 3

Northern Baltic

Gulf of Finland

Archipelago Sea

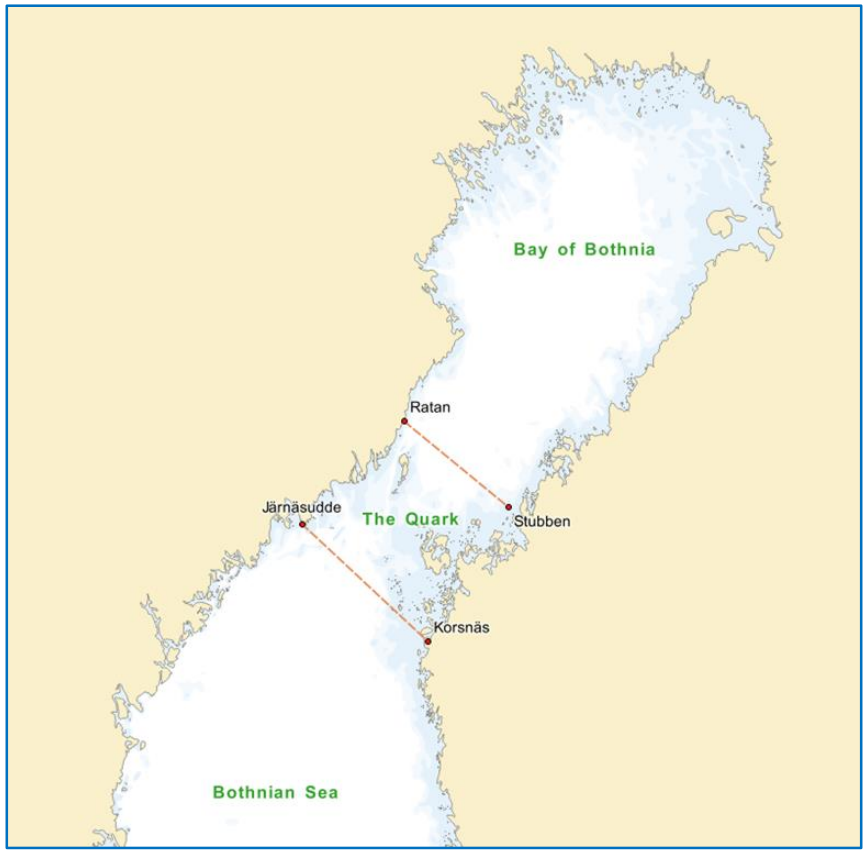
Åland Sea

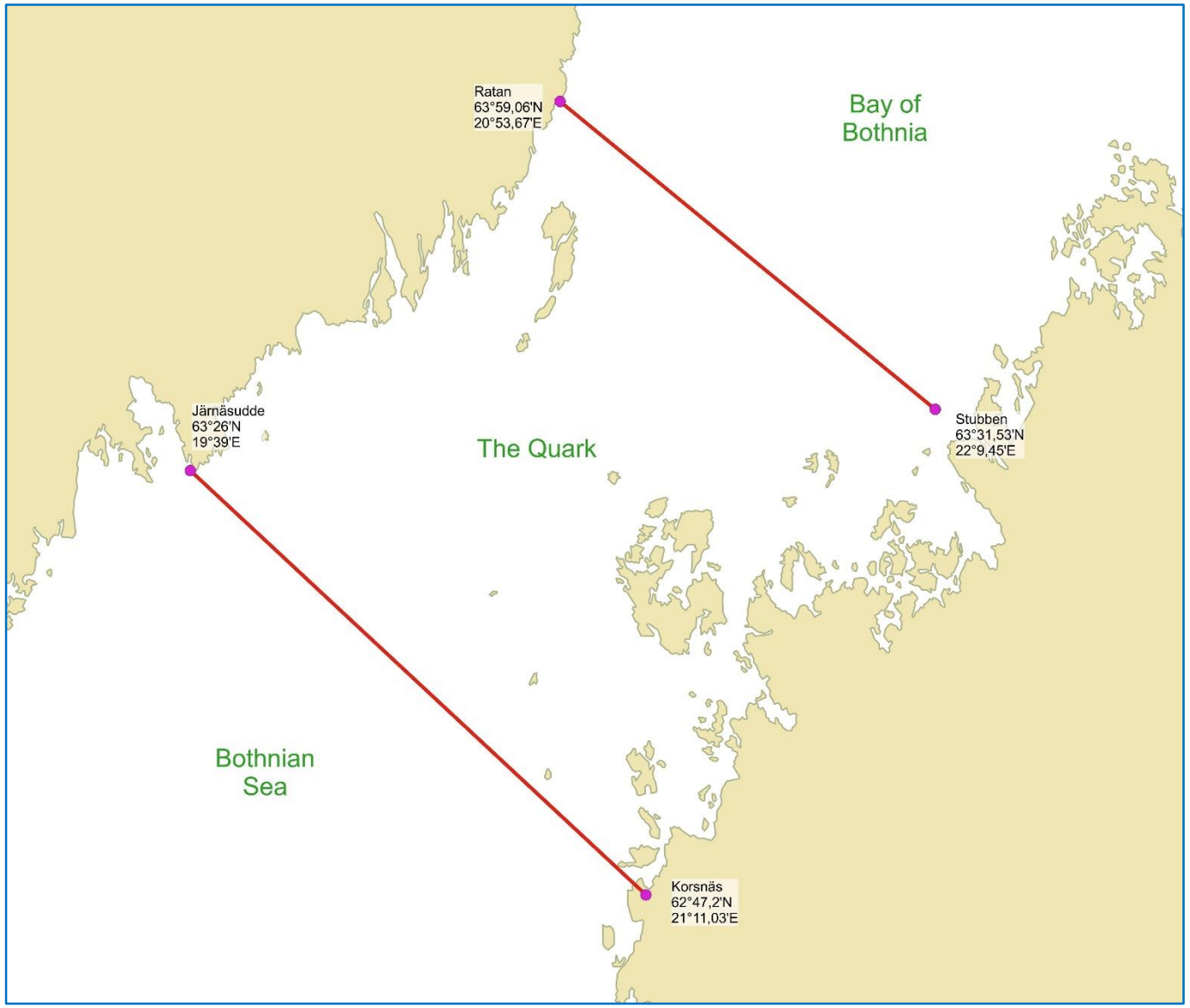


32	Tahkuna	59°5.48'N	22°35.17'E	Väinameri, Northern Baltic	EE
33	Põõsaspea	59°13.72'N	23°30.58'E	Väinameri, Gulf of Finland, Northern Baltic	EE
34	Hanko	59°48.55'N	22°53.59'E	Gulf of Finland, Northern Baltic	FI
35	Koksnan	60°28.09'N	19°56.18'E	Archipelago Sea, Bothnian Sea	FI
36	Kiparluoto	60°40.05'N	21°16.56'E	Archipelago Sea, Bothnian Sea	FI
37	Bengtskär	59°43.41'N	22°29.96'E	Archipelago Sea, Northern Baltic	FI
38	From Ledskär to South	59°47.77'N	20°10.23'E	Åland Sea, Northern Baltic	FI
39	Flötjan	59°48.5'N	19°46.91'E	Åland Sea, Northern Baltic	FI
40	Ledskär	59°57.75'N	20°10.21'E	Archipelago Sea, Åland Sea	FI
41	Geta	60°25.44'N	19°52.86'E	Archipelago Sea, Åland Sea	FI
42	Näskubben	59°52.55'N	19°4.98'E	Åland Sea, Northern Baltic	SE
43	Ängskärsskaten	60°30.05'N	18°4.56'E	Åland Sea, Bothnian Sea	SE

Level 3

Bothnian Bay
The Quark
Bay of Bothnia





44	Korsnäs	62°47.2'N	21°11.03'E		The Quark, Bothnian Sea	FI
45	Järnäsudde	63°26'N	19°39'E		The Quark, Bothnian Sea	SE
46	Ratan	63°59.06'N	20°53.67'E		The Quark, Bay of Bothnia	SE
46	Stubben	63°31.53'N	22°9.45'E		The Quark, Bay of Bothnia	FI

Annex 4. Baltic Sea Sub-areas, Level 3, coordinate points

	Name	Lat	Lon	The border point	Country
1	Skagen	57°45.0'N	10°36.0'E	Kattegat, North Sea	DK
2	Knaverstad	57°57.0'N	11°47.5'E	Kattegat, North Sea	SE
3	Gilbjerg Hoved	56°7.7'N	12°16.44'E	Kattegat, The Sound	DK
4	Kullen Point	56°18.15'N	12°26.73'E	Kattegat, The Sound	SE
5	Røsnæs	55°44.6'N	10°52.1'E	Kattegat, The Great Belt	DK
6	Fyns Hoved	55°37.24'N	10°35.45'E	Kattegat, The Great Belt	DK
7	Æbelø	55°38.77'N	10°9.76'E	Kattegat, The Little Belt	DK
8	Bjørnsknude	55°41.81'N	10°1.78'E	Kattegat, The Little Belt	DK
9	Falsthöft	54°46.79'N	9°57.42'E	The Little Belt, Western Baltic	DE
10	Vejsnæs Nakke	54°49.03'N	10°25.39'E	The Little Belt, Western Baltic	DK
11	Dovns Klint	54°43.33'N	10°41.62'E	The Great Belt, Western Baltic	DK
12	Kappel	54°46'N	11°0'E	The Great Belt, Western Baltic	DK
13	Thurø Rev	55°1.8'N	10°43'E	The Little Belt, The Great Belt	DK
14	Næshoved	54°58.95'N	10°46.17'E	The Little Belt, The Great Belt	DK
15	Stevns Fyr/Lighthouse	55°17.44'N	12°27.22'E	The Sound, Western Baltic	DK
16	Falsterbo Point	55°23.03'N	12°48.98'E	The Sound, Western Baltic	SE
17	Kap Arkona	54°40.82'N	13°26.10'E	Western Baltic, Southern Baltic	DE
18	Glewitzer Fähre	54°14.46'N	13°18.91'E	Western Baltic, Southern Baltic	DE
19	Stahlbrode	54°14.01'N	13°17.52'E	Western Baltic, Southern Baltic	DE
20	Hagbyhamn	56°35'N	16°13'E	Southern Baltic, Central Baltic	SE
21	East of Öland	56°35'N	17°0'E	South-Eastern Baltic, Southern Baltic, Central Baltic	SE
22	Liepaja	56°35'N	21°01'E	South-Eastern Baltic, Central Baltic	LV
23	Norra Finnö	58°20'N	16°54'E	Central Baltic, Northern Baltic	SE
24	Loonalaid	58°20'N	21°46.62'E	Central Baltic, Northern Baltic	EE
25	Elda	58°18.55'N	21°50.18'E	Central Baltic, Northern Baltic	EE
26	Sõrve	57°54.59'N	22°3.32'E	Gulf of Riga, Central Baltic	EE
27	Ovisi	57°34.12'N	21°42.95'E	Gulf of Riga, Central Baltic	LV
28	Kübassaare	58°25.97'N	23°18.32'E	Gulf of Riga, Väinameri	EE
29	Paagisäär	58°26'N	23°41'E	Gulf of Riga, Väinameri	EE
30	Pammana	58°38'N	22°33'E	Väinameri, Northern Baltic	EE
31	Emmaste	58°42'N	22°33'E	Väinameri, Northern Baltic	EE

32	Tahkuna	59°5.48'N	22°35.17'E	Väinameri, Northern Baltic	EE
33	Põõsaspea	59°13.72'N	23°30.58'E	Väinameri, Gulf of Finland, Northern Baltic	EE
34	Hanko	59°48.55'N	22°53.59'E	Gulf of Finland, Northern Baltic	FI
35	Koksnan	60°28.09'N	19°56.18'E	Archipelago Sea, Bothnian Sea	FI
36	Kiparluoto	60°40.05'N	21°16.56'E	Archipelago Sea, Bothnian Sea	FI
37	Bengtskär	59°43.41'N	22°29.96'E	Archipelago Sea, Northern Baltic	FI
38	From Ledskär to South	59°47.77'N	20°10.23'E	Åland Sea, Northern Baltic	FI
39	Flötjan	59°48.5'N	19°46.91'E	Åland Sea, Northern Baltic	FI
40	Ledskär	59°57.75'N	20°10.21'E	Archipelago Sea, Åland Sea	FI
41	Geta	60°25.44'N	19°52.86'E	Archipelago Sea, Åland Sea	FI
42	Näskubben	59°52.55'N	19°4.98'E	Åland Sea, Northern Baltic	SE
43	Ängskärsskaten	60°30.05'N	18°4.56'E	Åland Sea, Bothnian Sea	SE
44	Korsnäs	62°47.2'N	21°11.03'E	The Quark, Bothnian Sea	FI
45	Järnäsudde	63°26'N	19°39'E	The Quark, Bothnian Sea	SE
46	Ratan	63°59.06'N	20°53.67'E	The Quark, Bay of Bothnia	SE
46	Stubben	63°31.53'N	22°9.45'E	The Quark, Bay of Bothnia	FI
48	Ristinge Hale	54°50.16'N	10°35.92'E	The Little Belt, Western Baltic	DK
49	Ærøs Hale	54°50.82'N	10°32.19'E	The Little Belt, Western Baltic	DK
50	Mys Taran	54°57.61'N	19°58.73'E	Gulf of Gdansk, South Eastern Baltic	PL
51	Rozewie	54°49.82'N	18°20.18'E	Gulf of Gdansk, South Eastern Baltic	PL
52	Rowy	54°38.24'N	17°00.00'E	South-Eastern Baltic, Southern Baltic	PL

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.									

	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 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 ENCs.									
#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 ENCs 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 ENCs.									

#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
Completed	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.
Adopted	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)
Partially Adopted	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.
Not applicable now	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
Unclear	No information available or information not clear.	No or unclear status information received from a MS.