

**DEPARTMENT OF NAVIGATION AND OCEANOGRAPHY
MINISTRY OF DEFENSE OF THE RUSSIAN FEDERATION**

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



19-th MEETING of BALTIC SEA HYDROGRAPHIC COMMISSION
Latvia, Riga, 10-12 June, 2014

The present report reflects activity results of the Hydrographic Office of the Russian Federation since the last submission of the national report at the 18th meeting of BSHC, September 2013, Tallinn.

1. Hydrographic Office

In accordance with the legislation of the Russian Federation, matters of navigational and hydrographic support of navigation in marine waters under national jurisdiction, except for the tracks of the Northern Sea Route, have been attributed to the competence of the Ministry of Defense of the Russian Federation.

Functions of planning and organization of navigational and hydrographic support of navigation in marine waters under national jurisdiction and in the high seas is entrusted to the Department of Navigation and Oceanography of the Russian Federation Ministry of Defense (abbreviated DNO of the RF MD).

Department of Navigation and Oceanography is an organization authorized by the Ministry of Defense of the Russian Federation, and it represents the State in civil legal relations arising in the field of navigational and hydrographic support of navigation. It is in charge of the Hydrographic Office of the Navy.

The basic directions of activity of the Hydrographic Office of the Navy are:

- oceanographic, hydrographic and marine geophysical researches in maritime waters under national jurisdiction and in the high sea;
- edition of nautical charts, manuals and publications for all parts of the World Ocean and corresponding supply of mentioned products to Russian and foreign mariners;
- collecting and making available for mariners information on changes in sailing conditions and regime of navigation in maritime waters under national jurisdiction and in the high seas;
- maintenance, improvement and development of aids to navigation in the seas along the coast and in marine waters under national jurisdiction of the Russian Federation, with the exception of the tracks of the Northern Sea Route.

Hydrographic Office of the Navy consists of units based in St. Petersburg, and regional hydrographic services for the Northern, Pacific, Baltic, Black Sea and Caspian Sea Regions.

Subdivisions of regional hydrographic services: expeditions, hydrographic groups and parties directly carry out totality of oceanographic, hydrographic and

geophysical works, produce processing and transmitting of the materials to the Charts Division of the Navy.

Hydrographic Office of the Navy participates in joint, including international, oceanographic and hydrographic expeditions.

Department of Navigation and Oceanography directs preparation and edition of new navigational charts, manuals and publications and reissue of existing ones.

Direct preparation and edition of charts, manuals and publications are realized in the Charts Division of the Navy. Materials of hydrographic research carried out by regional hydrographic services, as well as contributions from interagency cooperation to hydrographic researches, serve as a base for edition of charts and books.

2. Surveys

2.1. Areas of Coverage by New Surveys

Table 1

No	Area of activity	Kind of activity	Scale	Year of activity
1	<u>Vyborgskiy Zaliv</u> Fairway № 6, Deep-water Route - 2, Anchorages № 18a,18b,18v, 19 and 20	Area survey	1:2 000	2013
2	Sankt-Peterburgskiy Maritime Canal	Area survey	1:2 000	2013
3	Water Area and Coast of the Harbour of Litke Base	Area survey, sounding and topographic survey	1:2 000	2013
4	<u>Sections of Approach Canal to Unloading-Loading Complex – Vysotsk “Lukoil – II”:</u> - Approach to Vyborgskiy Zaliv - Fairways № 4 and 6	Area survey	1:1 000	2013
5	Water Area of LNG Transshipment Complex and Ust'-Luzhskiy Container Terminal of the Seaport of Ust'-Luga	Area survey	1:2 000 1: 500	2013
6	<u>Luzhskaya Guba</u> Water Area “Anchorage 11-A and Sanitary Roads”	Area survey	1:5 000	2013
7	- Luzhskiy Zapadnyy Canal - Novaya Gavan' Ruch'i - Approach Canals (Severnnyy and Yuzhnyy) and the Seaport of Ust'- Luga - Approach Canal to the Mouth of Reka Luga - Section of Bol'shoy Korabel'nyy Fairway - Operation Basin at the Water Area of Automobile-Railway-Ferry Complex in the village of Ust'-Luga	Area survey, sounding and topographic survey	1:5 000 1:2 000 1: 500	2013
8	Water Area of Bol'shoy Kronshtadtskiy Roads	Area survey	1:2 000	2013
9	<u>Kaliningradskiy Maritime Canal</u> Section of Pickets № 209-222 (newly formed Water Area of Production Terminal Complex for deep processing of oil crops)	Area survey and sounding Topographic survey of Berths and Coastline	1:2 000 1:5 000	2013

2.2. New Technologies and/or Equipment

For period since the last meeting of the Commission, new technologies and the equipment have not been used.

2.3. New Vessels

For period since the last meeting of the Commission, new vessels have not been put into service.

3. New Charts and Updates

3.1. Electronic Navigational Charts

List of New Electronic Navigational Charts, 2013-2014

Table 2

No	Cell No	Chart Title	Scale 1:	Year of publishing
1	RU3NCJP9	Baltic Sea S Part. Russian-Lithuanian Boundary to Russian-Polish Boundary	90 000	2013
2	RU4NEK11	Baltic Sea S Part. Rybachiy Lighthouse to Zelenogradsk	45 000	2013
3	RU5NTKP2	Baltic Sea. Gulf of Finland. Luzhskaya Inlet. Approaches to Port Ust'-Luga	8 000	2013
4	RU5NTKP3	Baltic Sea. Gulf of Finland. Luzhskaya Inlet. Port Ust'-Luga	8 000	2013
5	RU501KO0	Baltic Sea Gulf of Finland. Dal'nyaya Bay	8 000	2013
6	RU4NEJT0	Baltic Sea S Part. Gvardeyskiy Point to Mys Taran.	45 000	2013

List of New Editions of Electronic Navigational Charts, 2013 -2014

Table 3

No	Cell No	Chart Title	Scale 1:	Year	Edition No
1	RU4NSKO0	Baltic Sea. Gulf of Finland. Luzhskaya Inlet	22 000	2013	5 th
2	RU4NTKO9	Baltic Sea. Gulf of Finland. Luzhskaya Inlet to Ustinsky Point	45 000	2013	3 rd
3	RU5NEK00	Baltic Sea S Part. Port Pionerskiy	4 000	2013	3 rd
4	RU5NSKO0	Baltic Sea. Gulf of Finland. Luzhskaya Inlet. Approaches to Luga River Mouth	8 000	2013	3 rd

3.2. Method of ENC Distribution

Merchandising of electronic navigational charts is carried out through the official distributor of cartographic products of Hydrographic Office of the Russian Federation in frames of the standard S-63.

ENCs, May 2014

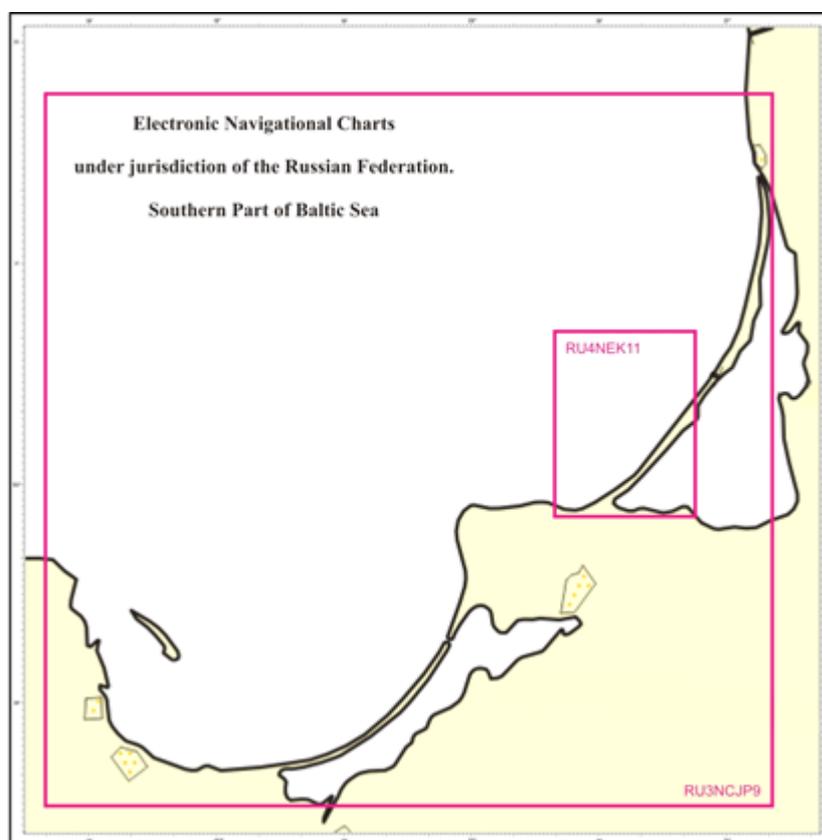


Fig. 1

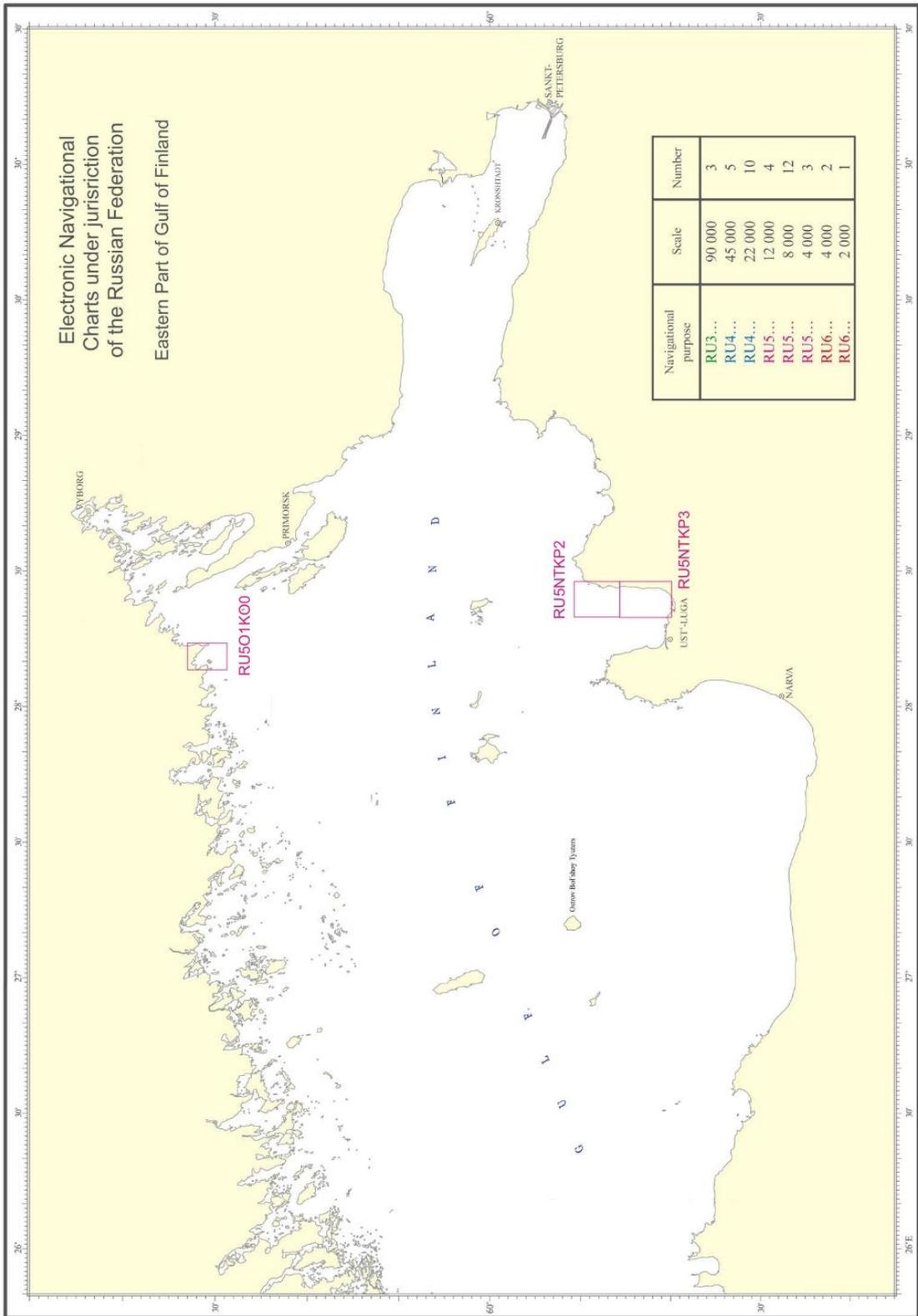


Fig. 3

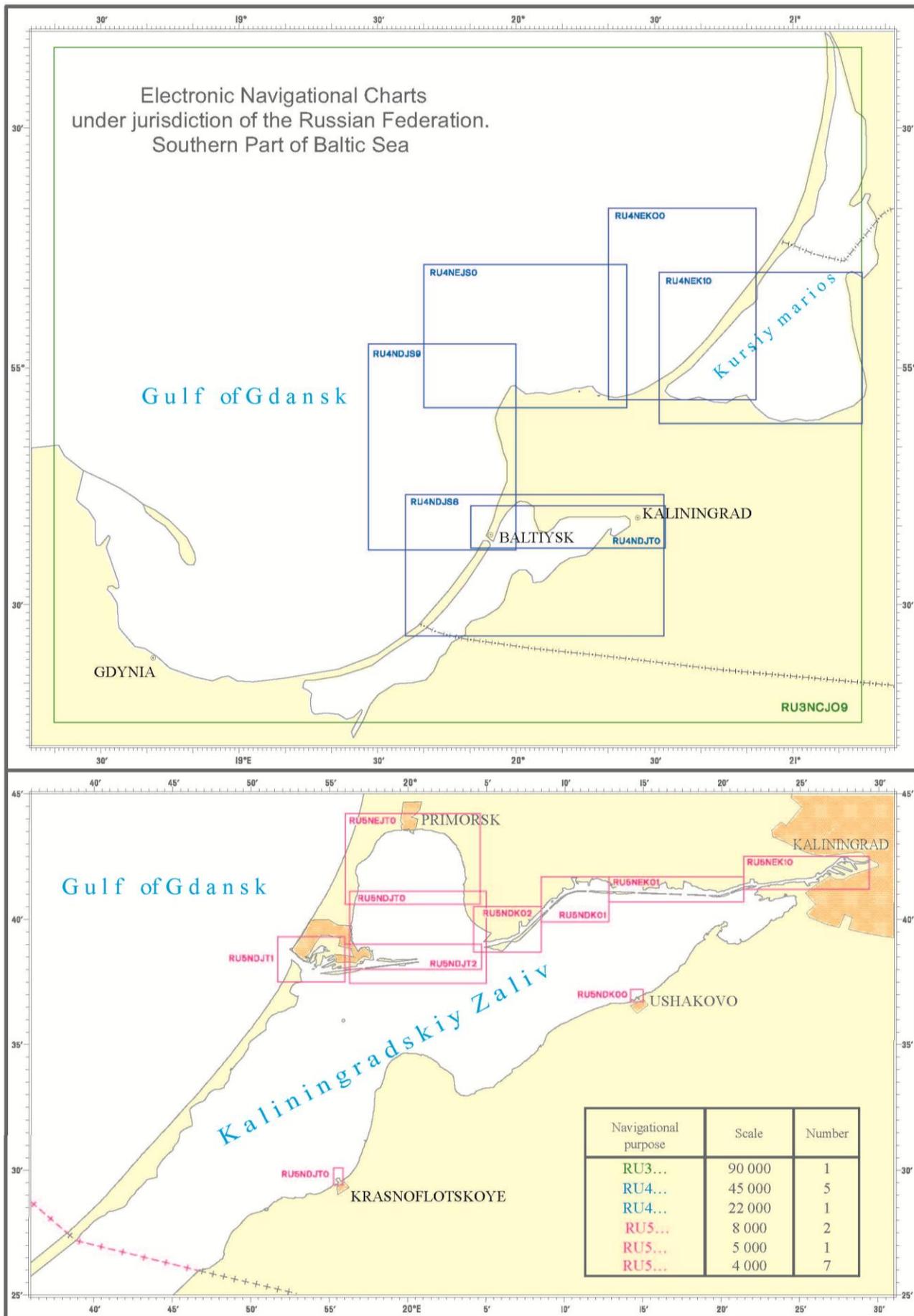


Fig. 4

3.3. Raster Navigational Charts (RNCs)

DNO of the RF MD does not distribute RNCs.

3.4. International Charts

The following is a complete list of International Charts on the area of responsibility of Russia as of May, 2014.

List of International Charts Published under the Frames of Baltic Sea Hydrographic Commission

Table 4

No.	Chart INT No.	Chart Russian No.	Chart Name	Scale 1:	Date of Publication	Date of Printing	Adopted Date of New Edition
1	1023	21001	Baltic Sea. Gulf of Finland	500 000	2007	2007	
2	1213	22060	Western Part of Gulf of Finland	250 000	2011	2011	
3	1214	22061	Eastern Part of Gulf of Finland	250 000	2013	2013	
4	1255	25006	Baltic Sea. Gulf of Finland. Ostrov Rondo to Ostrov Sommers	50 000	2007	2007	
5	1256	27060	Bukhta Dal'nyaya	10 000	2012	2012	
6	1257	28007	Approaches to Vysotsk and Vyborg	25 000	2008	2008	.
7	1258	28008	Baltic Sea. Gulf of Finland. Povorotnyy Lighthouse to Ostrov Malyy Vysotskiy. Inset A. Approach Channel to Oil Terminal Lukoyl-II	10 000 5 000	2013	2013	

8	1259	28010	Baltic Sea. Vyborgskiy Zaliv. Approaches to Saymenskiy Kanal. Dubovyy Light-beacon to Ostrov Lavola.	12 500	2008	2008	
9	1260	28011	Baltic Sea. Vyborgskiy Zaliv. Approaches to Saymenskiy Kanal. Bukhta Zashchitnaya to Brusnichnoye Shluz	5 000	2008	2008	
10	1261	25004	Baltic Sea. Gulf of Finland. Kronshtadt to Krasnaya Gorka	25 000	2010	2011	
11	1262	25002	Baltic Sea. Gulf of Finland. Sankt-Petersburg to Kronshtadt.	25 000 10 000	2011	2011	
12	1263	27047	Maritime Port Sankt-Peterburg	10 000	2009	2009	
13	1280	25052	Baltic Sea. South Part. Approaches to Kaliningradskiy Morskoy Kanal	50 000	2010	2010	
14	1281	27000	Kaliningradskiy Morskoy Kanal	25 000	2006	2007	
15	1282	27001	Baltic Sea. South Part. Port Baltiysk. Entrance to Kaliningradskiy Morskoy Kanal	5 000	2009	2009	
16	1283	27002	Baltic Sea. South Part. Kaliningradskiy Morskoy Kanal. Picket No.24 to Povорот Komsomol'skiy	5 000	2009	2009	
17	1284	27003	Baltic sea. Southern Part. Kaliningradskiy Maritime Canal. Povорот Komsomol'skiy	5 000	2006	2007	
18	1285	27004	Baltic Sea. South Part. Kaliningradskiy Morskoy Kanal. Povорот Izhevskiy.	5 000	2012	2012	

19	1286	27005	Baltic Sea. Southern Part. Kaliningradskiy Morskoy Kanal. Gavan' Vzmor'ye to Reka Pregolya Mouth	5 000	2006	2006	
20	1287	27006	Baltic Sea. South Part. Kaliningradskiy Morskoy Kanal. Mouth of Reka Pregolya to Port Kaliningrad	5 000	2007	2008	

3.5. National Paper Charts

DNO of the RF MD issued 79 nautical charts on waters of the Baltic Sea under jurisdiction of Russia: Gulf of Finland, Vyborgskiy Zaliv and Kaliningradskiy Zaliv. Scale row is shown in table 5. The collection is maintained up-to-date using correction and re-publishing of charts as new hydrographic data become available.

Table 5

Scale	National	INT	Σ
1:2 000 000	1		1
1:500 000	1	1	2
1:200 000	2	1	3
1:100 000	9		9
1:50 000	13	2	15
1:25 000 and larger	35	14	49
Σ	61	18	79

List of New National Paper Charts Published in 2013-2014.

Table 6

№ П/П	Российский номер карты	Название карты	Масштаб 1:	Год нового издания
1	28001	Baltic Sea. Gulf of Finland. Eastern Section of the Northern Route of Flood-Defence	10 000	2013
2	28004	Baltic Sea. Gulf of Finland. Bol'shoy Kronshtadtskiy Reyd	5 000	2013
3	28008	Baltic Sea. Gulf of Finland. Bukhta Rybach'ya, New Gavan' Ruch'I and Harbour of Ostrov Bol'shoy Tyuters	10 000 5 000	2013
4	25004	Baltic Sea. Gulf of Finland. Kronshtadt to Krasnaya Gorka	25 000	2013
5	25005	Baltic Sea. Gulf of Finland. Proliv B'yorkyozund to Ostrov Vysotskiy with Bukhta Klyuchevskaya	25 000	2013
6	25053	Baltic Sea. Gulf of Finland. Mys Kolganpya to Stirsudden Lighthouse	50 000	2013
7	20100	Baltic Sea.	2 000 000	2013

3.6 Printing System of On-demand Charts

Beginning from 2011, published nautical charts are distributed only by way of printing on- demand charts. At present, the base of on- demand charts contains more than 900 nautical charts.

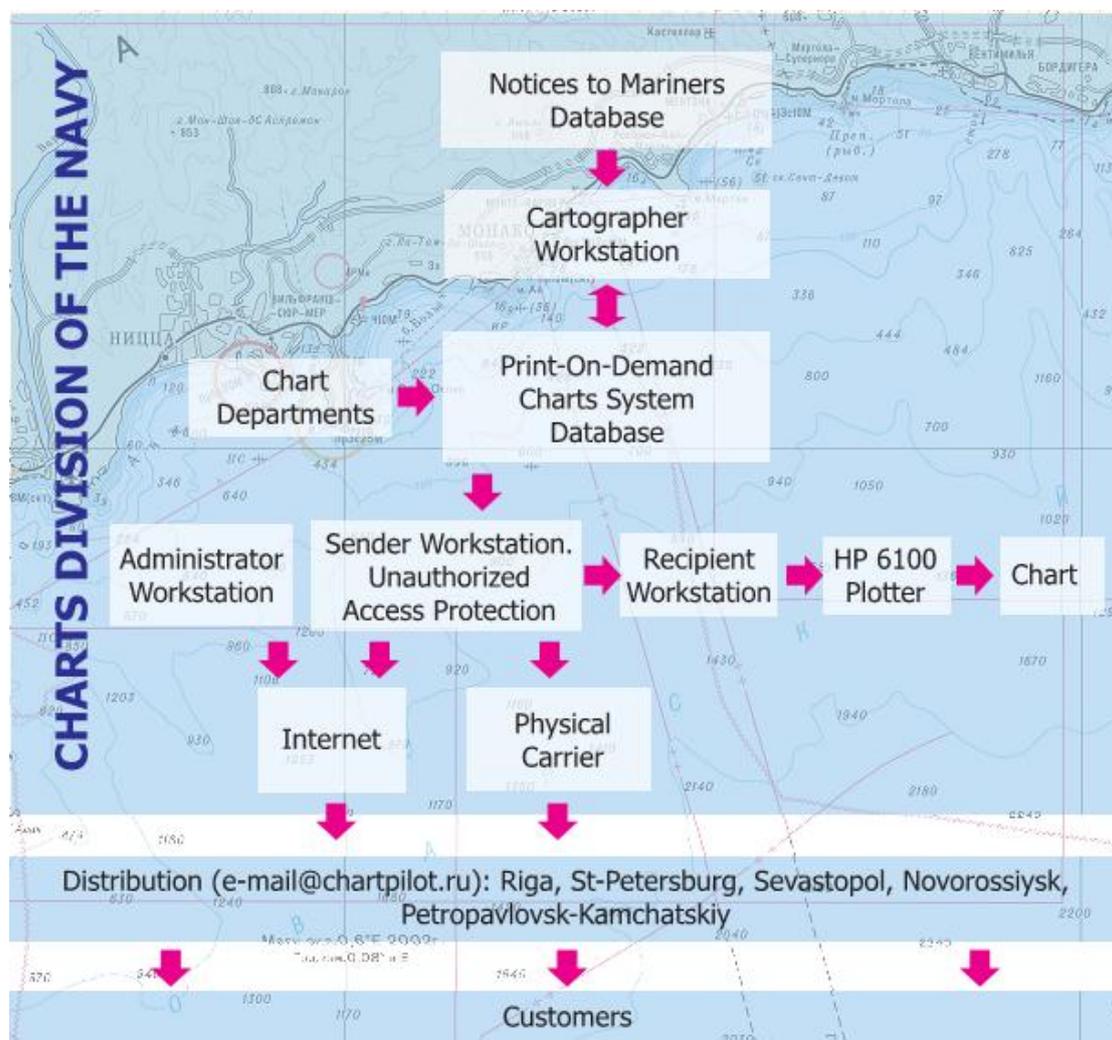


Fig. 5

4. New publications and updates

4.1. New Publications

For period since the last meeting of the Commission, new publications have not been issued.

4.2. Updated Publications

Issued publications are updated from NtMs of DNO of the RF MD.

4.3. Means of Supply (e.g. paper, digital)

All publications are supplied on a paper basis.

5. Maritime Safety Information (MSI)

5.1. Existing Infrastructure for Transmission

Within the framework of the World-Wide Navigational Warning Service (WWNWS), the Russian Federation collects and makes available to mariners information on changes in sailing conditions and regime of navigation, including:

- for WWNWS Area 13 in the form of warnings, NAVAREA XIII;
- for WWNWS Areas 20 and 21 in the form of warnings, NAVAREAs XX and XXI;
- for broadcasting areas of coastal warnings in the form of Coastal Warnings for Areas of ARKHANGEL'SK, ASTRAKHAN', VLADIVOSTOK, KALININGRAD, MURMANSK, NOVOROSSIYSK, PETERBURG, PETROPAVLOVSK, EAST (Eastern Part of the Northern Sea Route), WEST (Western Part of the Northern Sea Route).

5.2. Promulgation of Navigational Warnings in the Baltic Region

The Russian Federation, along with Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Germany and Denmark, is one of the nine Coastal States of the Baltic Sea serving as national coordinators with promulgation of maritime safety information in the Baltic Sea Area (Co-ordinator of the Sub-Area within the NAVAREA I is Sweden).

MSI broadcasting is carried out by National Hydrographic Service for two areas of coastal warnings:

- CW PETERBURG Area (Eastern Part of the Gulf of Finland);
- CW KALININGRAD Area (South-Eastern Part of the Baltic Sea).

Russia has no NAVTEX stations in the Baltic Sea. Transmission of Russian CWs within NAVTEX System is performed by Tallinn Station (Estonia) and Gislövshammar Station (Sweden). Interaction of the process is carried out by Sub-Area Co-ordinator within the NAVAREA I (Sweden).

In perspective it is planned to provide a NAVTEX station in Saint-Petersburg.

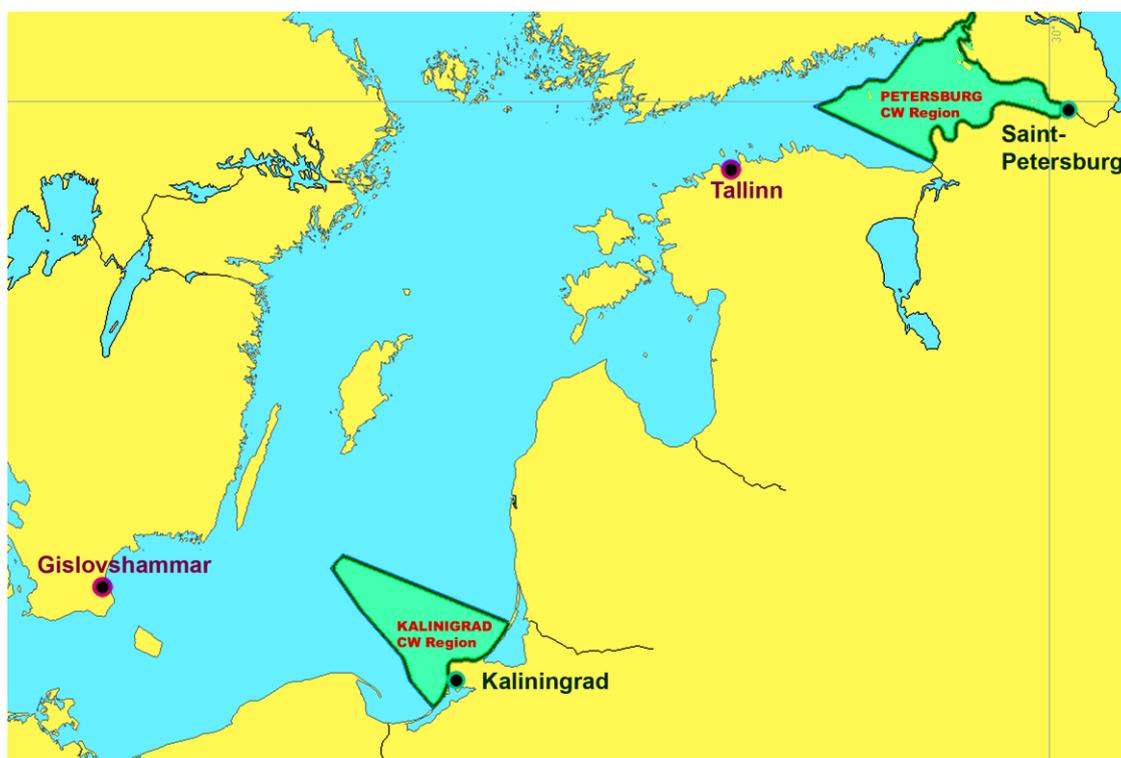


Fig. 6

Number of Announced Coastal Warnings for Three Years

Table 7

CW Area	2011	2012	2013
CW PETERBURG	362	416	480
CW KALININGRAD	183	165	155

There are electronic versions of Notices to Mariners and NAVAREA Warning Bulletins at the official website of the Ministry of Defense of the Russian Federation in pdf format:

<http://structure.mil.ru/structure/forces/hydrographic/info/notices.htm>

6. Standard S-55

The latest updates (Tables)

Water Area of Russia – 23 460 km²

Area with depth <200m - 23 460 km²

Water Area of Gulf of Finland – 11 990 km²

Water Area of Southern Part of Baltic Sea – 11 470 km²

Table 8

Depth range	Adequate survey %	Repeated survey is needed %	No systematic survey %
Depths < 200 m	99.7	0.3	-
Depths > 200 m	-	-	-

7. Capacity-building

No information to include in the report.

8. Oceanographic Activities

No information to include in the report.

9. Other Activities

No information to include in the report.

10. Conclusion

The present report reflects activity results of the Hydrographic Service of the Russian Federation for the period since the last meeting of the Commission.

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