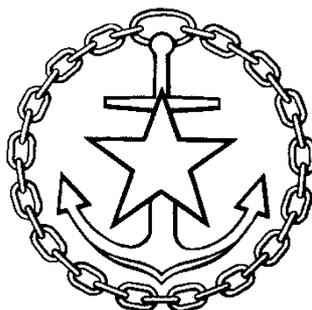


**DEPARTMENT OF NAVIGATION AND OCEANOGRAPHY,
RUSSIAN FEDERATION MINISTRY OF DEFENCE**

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



**21TH MEETING OF BALTIC SEA
HYDROGRAPHIC COMMISSION**

Republic of Lithuania, Klaipeda on September 27-29, 2016

1. Hydrographic Office.

In accordance with the legislation of the Russian Federation, matters of navigationally-hydrographic ensuring of navigation in marine waters of national jurisdiction of Russia, except for water area of the Northern Sea Route, are attributed to competence of the Ministry of Defence of the Russian Federation.

Functions of planning and of organization of conducting measures over navigationally-hydrographic ensuring of navigation in marine waters of national jurisdiction of Russia and in the high sea are entrusted to Department of Navigation and Oceanography, Russian Federation Ministry of Defence (farther-DNO RF MD)

Department of Navigation and Oceanography is the organization, authorized by the Ministry of Defense of the Russian Federation, and represents the state in the civil relations arising in the sphere of navigationally hydrographic ensuring of navigation, and implements guidance of the Hydrographic Office of the Navy.

Basic directions of activity of the Hydrographic Office of the Navy:

- performance of oceanographic, hydrographic and marine geophysical researches in marine waters of national jurisdiction of the Russian Federation and in the high sea;
- edition of navigation marine charts, the manuals and publications for swimming at all parts of the World Ocean, bringing of the Russian and foreign seafarers by them;
- collecting and bringing of seafarers by information on changes of a navigation situation and the regime of swimming in marine waters of national jurisdiction of the Russian Federation and in the high sea;
- maintenance, improvement and development of means of navigation equipment of the seas on the coast and in sea waters of national jurisdiction of the Russian Federation, except for water area of the Northern Sea Route.

The Hydrographic Office of Navy consists of the divisions, which are based in St. Petersburg, and of the regional Hydrographic Offices – of the Northern, Pacific, Baltic, Black and of Caspian regions.

Divisions of regional Hydrographic Offices: expeditions, hydrographic groups and parties directly carry out a complex of oceanographic, hydrographic and marine geophysical works, make processing and transfer of the received materials to the Central cartographical production of Navy.

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

Department of Navigation and Oceanography implements guidance of the preparation and of the edition of new and reissue of the existing navigation marine charts, manuals and publications for swimming.

Directly the Central Cartographical Production of Navy is engaged in

preparation and the edition of charts, the manuals and publications. By basis for the edition of charts and books are materials of the hydrographic researches executed by divisions of regional Hydrographic Offices, and also materials of hydrographic researches received within interdepartmental interaction.

2. Surveys.

2.1. Areas of coverage by new surveys.

Table №1

The list of hydrographic survey for 2015-2016

| Item № | Area of works | Kind of works | Term of execution | Scale | Volume of works | |
|-------------------|--|----------------------|-------------------|---------|-----------------|-------|
| | | | | | sq. km | l. km |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Baltic Sea | | | | | | |
| 1 | Multipurpose Maritime Transshipment Complex «Bronka» | Topographical survey | 2015 | 1:500 | 0.016 | |
| 2 | Water Area of Sankt-Peterburgskiy Maritime Canal Surveyed depth 12m | Area survey | 2015 | 1:2 000 | 0.11 | |
| 3 | Approach Canal and Water Area of «Bronka» Multipurpose Maritime Transshipment Complex | Area survey | 2015 | 1:2 000 | 3.69 | |
| 4 | Vyborgskiy Zaliv Water Area along the Berth №3 Joint-stock Company «DTC-Vysotsk» «Lukoil-II» | Area survey | 2015 | 1:500 | 0.00489 | |

| | | | | | | |
|---|--|-------------|------|--------------------|-------|--|
| 5 | <ul style="list-style-type: none"> - Vyborg-Vysotsk Canal - Shipping Route with Anchorages: №№18A,18B,18C, 18D, 19 and 20 - Maneuvering Water Area - Approach Canal - Northern Operation Water Area - Southern Operation Water Area - Berth №3 Water Area -Water Area of Berthing Dolphin and Portoflot Berth - Anchorage 18E | Area survey | 2015 | 1:2 000 1:5 000 | 69.78 | |
| 6 | Water Areas and Canals of Seaports Vyborg and Vysotsk | Area survey | 2016 | 1:2 000 | 47 | |
| 7 | Approach Fairway of Saymenskiy Canal from Mariankivi Beacon to Brusnichnoye Lock | Area survey | 2016 | 1:1 000 | 1.48 | |

The scheme of hydrographic survey for 2015-2016

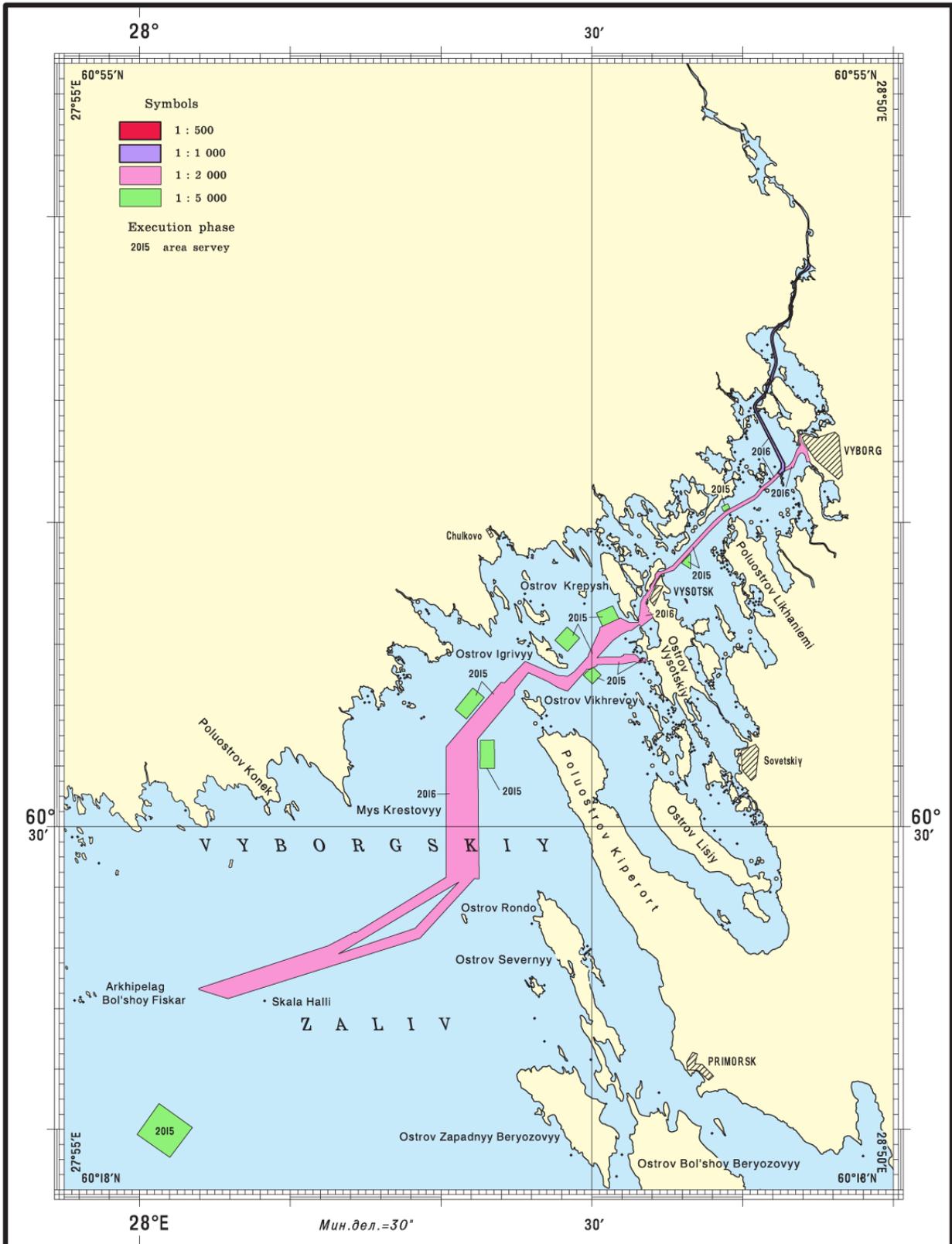


Fig. №1

The scheme of hydrographic survey for 2015-2016

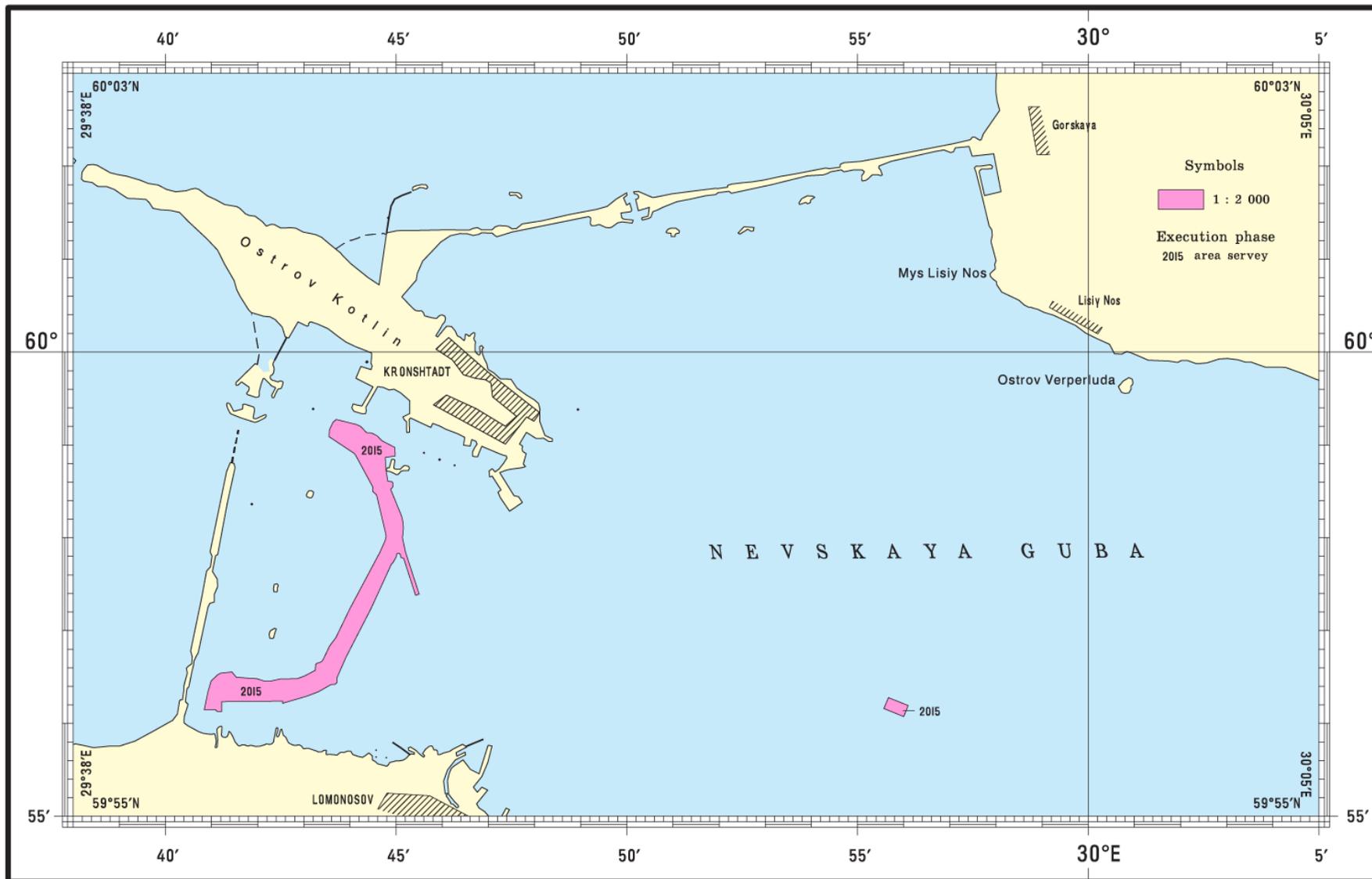


Fig. №2

2.2 New technologies and/or equipment.

For the period, which passed from last meeting of the commission, new technologies and the equipment, have not been used.

2.3 New vessels.

For the period, which passed from last meeting of the commission, new vessels have not been entered.

3. New charts and updates.

3.1. Electronic navigational charts.

Table №2

The list of electronic navigation charts for 2015 - 2016

| Item № | № Cell | Name of the area | Scale | Date of new edition |
|---------------|---------------|---|--------------|----------------------------|
| 1. | RU3NTKQ0 | Gulf of Finland. 29°37'E to Shepelevskiy Lighthouse. | 1: 90 000 | 2015 |
| 2. | RU4NSKO0 | Gulf of Finland. Luzhskaya Guba. | 1:22 000 | 2015 |
| 3. | RU4NTKK9 | Gulf of Finland. Gogland Island to Malyy Island. | 1:45 000 | 2015 |
| 4. | RU4O0KS9 | East Part of Gulf of Finland. Area of Zelenogorsk – Sestroretsk – Fort Krasnoarmeyski. | 1:22 000 | 2015 |
| 5. | RU5NTKK9 | Gulf of Finland. Gogland Island. | 1:22 000 | 2015 |
| 6. | RU5NTKN0 | Gulf of Finland. Moshchnyy and Malyy Islands. | 1:22 000 | 2015 |
| 7. | RU5NTKO0 | Gulf of Finland. Seskar Island to Malyy Island. | 1:22 000 | 2015 |
| 8. | RU5NTKP2 | Gulf of Finland. Luzhskaya Inlet. Approaches to Port Ust'-Luga. | 1:8 000 | 2015 |
| 9. | RU5NTKP3 | Gulf of Finland. Luzhskaya Inlet. Port Ust'-Luga. | 1:8 000 | 2015 |
| 10. | RU5NTLO0 | Gulf of Finland. Nevskaya Inlet. Northern Part of Neva River Delta. | 1:12 000 | 2015 |
| 11. | RU5NTLO1 | Gulf of Finland. Nevskaya Inlet. Bol'shoy Port Sankt-Peterburg. | 1:8 000 | 2015 |

| | | | | |
|-----|----------|---|----------|------|
| 12. | RU6O0KK0 | Gulf of Finland. Gogland Island. Suurkyulan-Lakhti Bay. | 1:4 000 | 2015 |
| 13. | RU6O0KK1 | Gulf of Finland. Gogland Island. Limonnikov Bay. | 1:4 000 | 2015 |
| 14. | RU6O0KL0 | Gulf of Finland. Gogland Island. Kiyskinkyulya Bay. | 1:4 000 | 2015 |
| 15. | RU3NSKI9 | Gulf of Finland. Vaindloo Lighthouse to Moshchnyy Island. | 1:90 000 | 2016 |
| 16. | RU3NSKO9 | Gulf of Finland. Seskar Island to Primorsk. | 1:90 000 | 2016 |
| 17. | RU4NTKO9 | Gulf of Finland. Luzhskaya Inlet to Ustinsky Point. | 1:45 000 | 2016 |
| 18. | RU4NTKQ0 | Gulf of Finland. Shepelevskiy Lighthouse to Pesochnyy Light-Beacon. | 1:45 000 | 2016 |
| 19. | RU4NTKS0 | Gulf of Finland. Krasnaya Gorka Lighthouse to Tolbukhin Lighthouse. | 1:22 000 | 2016 |
| 20. | RU4NTKS9 | Gulf of Finland. Kotlin Island and Approaches. | 1:22 000 | 2016 |
| 21. | RU4O1KP0 | Vyborgskiy Gulf. Approaches to Vysotsk and Vyborg. | 1:22 000 | 2016 |
| 22. | RU5NTKT4 | Gulf of Finland. Petrodvortsovaya Harbor. | 1:8 000 | 2016 |
| 23. | RU5O1KP0 | Gulf of Finland. Bol'shoy Tranzundskiy Roads. | 1:8 000 | 2016 |

The scheme of electronic navigational charts for 2015-2016

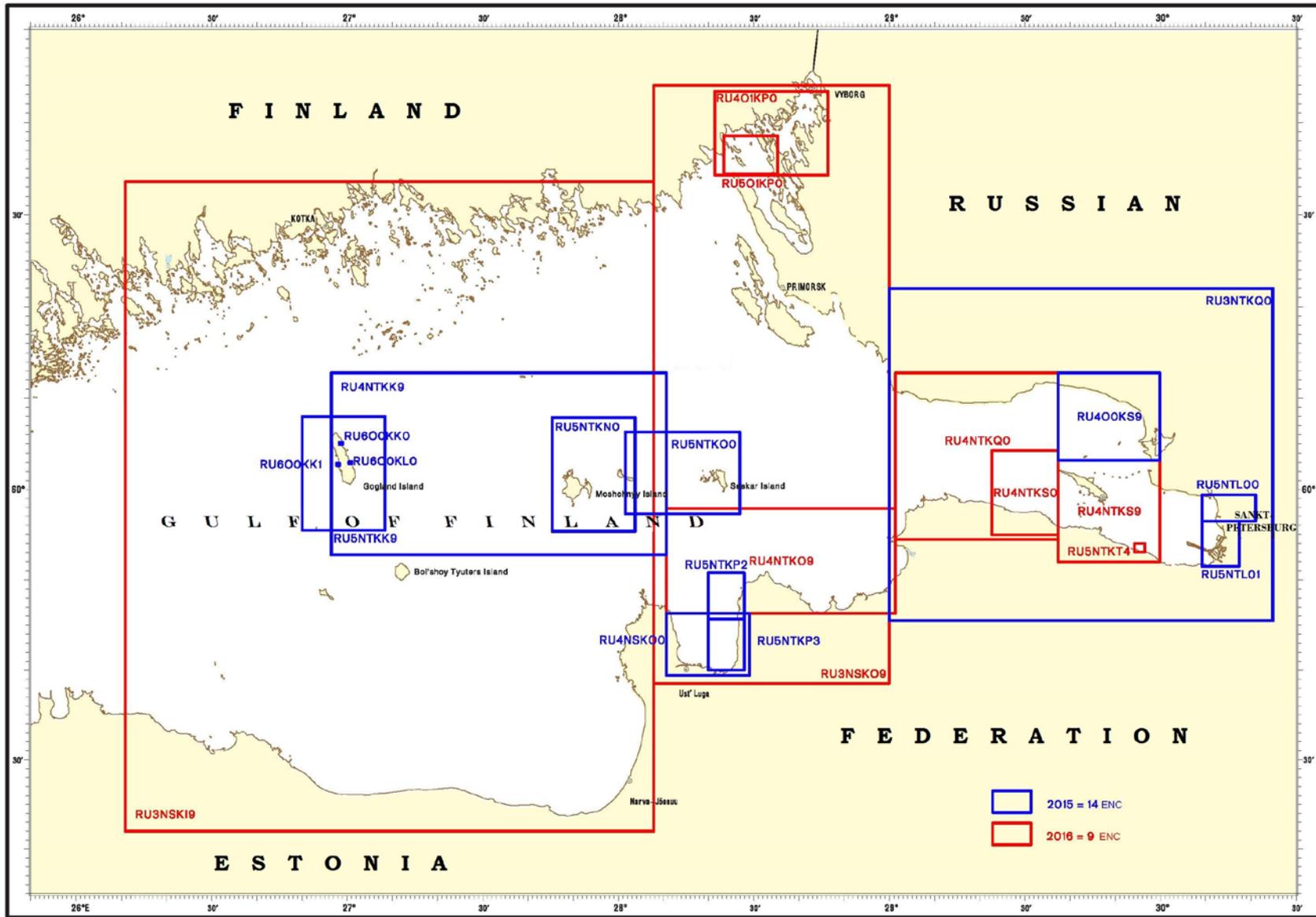


Fig. №3

3.2. Method of electronic navigational charts distribution.

Distribution of electronic navigational charts is carried out through the official distributor of cartographical products of Hydrographic Office of the Russian Federation with use of the S-63 standard.

3.3. Raster navigational charts (RNCs).

DNO RF MD does not distribute RNCs.

3.4. International charts (INT).

DNO RF MD within the Baltic Sea Hydrographic Commission publishes charts with a letter of «INT».

Table №3

The list of the international charts, published in 2015-2016

| Item № | № INT-charts | № RF-charts | Chart name | Scale | Date of new edition |
|---------------|---------------------|--------------------|--|----------------------|----------------------------|
| 1. | 1257 | 28007 | Baltic Sea. Vyborgskiy Zaliv. Approaches to Ports Vysotsk and Vyborg. | 1:25 000 | 2015 |
| 2. | 1258 | 28008 | Baltic Sea. Gulf of Finland. Povorotnyy Lighthouse to Ostrov Malyy Vysotskiy. Approach Channel to complex Vysotsk «Lukoil-II». | 1:10 000 1:5 000 | 2015 |
| 3. | 1261 | 25004 | Baltic Sea. Gulf of Finland. Kronshtadt to Krasnaya Gorka. | 1:25 000 | 2015 |
| 4. | 1262 | 25002 | Baltic Sea. Gulf of Finland. Sankt-Peterburg to Kronshtadt. Petrodvortsovaya Gavan'. | 1:25 000 1:10 000 | 2015 |
| 5. | 1263 | 27047 | Gulf of Finland. Nevskaya Guba. Bol'shoy Port Sankt-Peterburg. | 1:10 000 | 2015 |

The scheme of the international charts, published in 2015-2016

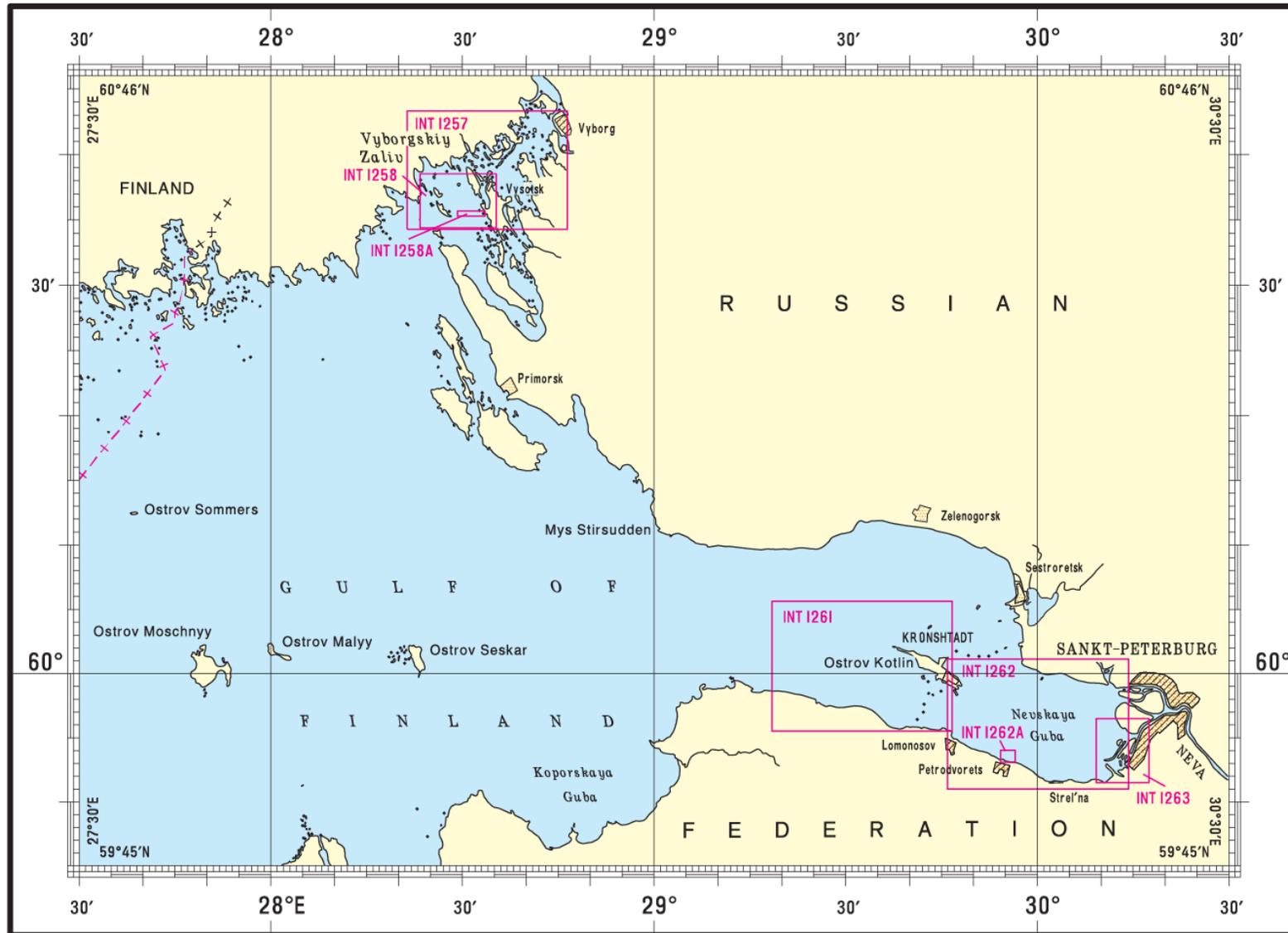


Fig. №4

3.5. National paper charts.

DNO RF MD is published the collection consisting of 16 paper charts on the water area of the Baltic Sea, which are under jurisdiction of the Russian Federation. The collection is supported at the level up-to-date by means of updates and re-publishing in process of obtaining of new hydrographic data.

Electronic versions of releases of Notices to mariners and Bulletins of navigation warnings in a format pdf are published on the official website of the Ministry of Defence of the Russian Federation:

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

Table №4

The list of the national navigation paper charts, published in 2015-2016

| Item № | Adm. № | Name of the area | Scale | Date of new edition |
|---------------|---------------|---|--------------|----------------------------|
| 1. | 22055 | Baltic Sea. South Part. Pape Lighthouse to Gulf of Gdańsk. | 1:200 000 | 2015 |
| 2. | 23001 | Baltic Sea. Gulf of Finland. Port Primorsk to Ostrov Sommers. | 1:100 000 | 2015 |
| 3. | 23020 | Baltic Sea. Gulf of Finland. Mys Kolganpya to Ostrov Gogland. | 1:100 000 | 2015 |
| 4. | 25007 | Baltic Sea. Gulf of Finland. Ostrov Kotlin and Approaches. | 1:25 000 | 2015 |
| 5. | 25012 | Baltic Sea. Gulf of Finland. Luzhskay Guba. | 1:25 000 | 2015 |
| 6. | 27052 | Baltic Sea. Gulf of Finland. Luzhskay Guba. Approaches to Port Ust'-Luga. | 1:10 000 | 2015 |
| 7. | 27053 | Baltic Sea. Gulf of Finland. Luzhskay Guba. Port Ust'-Luga. | 1:10 000 | 2015 |
| 8. | 28030 | Gulf of Finland. Nevskaya Guba. Reka Neva Delta. | 1:12 500 | 2015 |
| 9. | 25010 | Baltic Sea. Gulf of Finland. Poluoostrov Kiperort to Mys Krestovyy. | 1:25 000 | 2016 |
| 10. | 28004 | Baltic Sea. Gulf of Finland. Bol'shoy Kronshtadtskiy Reyd. | 1:5 000 | 2016 |
| 11. | 28006 | Baltic Sea. Gulf of Finland. Lomonosovskaya Gavan' to Kronshtadt. | 1:12 500 | 2016 |

Table №5

| Scale | National charts | International charts | Σ |
|--------------|------------------------|-----------------------------|----------------------------|
| 1:200 000 | 1 | - | 1 |
| 1:100 000 | 2 | - | 2 |
| 1:25 000 | 3 | 3 | 6 |
| 1:12 500 | 3 | - | 3 |
| 1:10 000 | 2 | 2 | 4 |
| Σ | 11 | 5 | 16 |

The scheme of the national navigation paper charts, published in 2015-2016

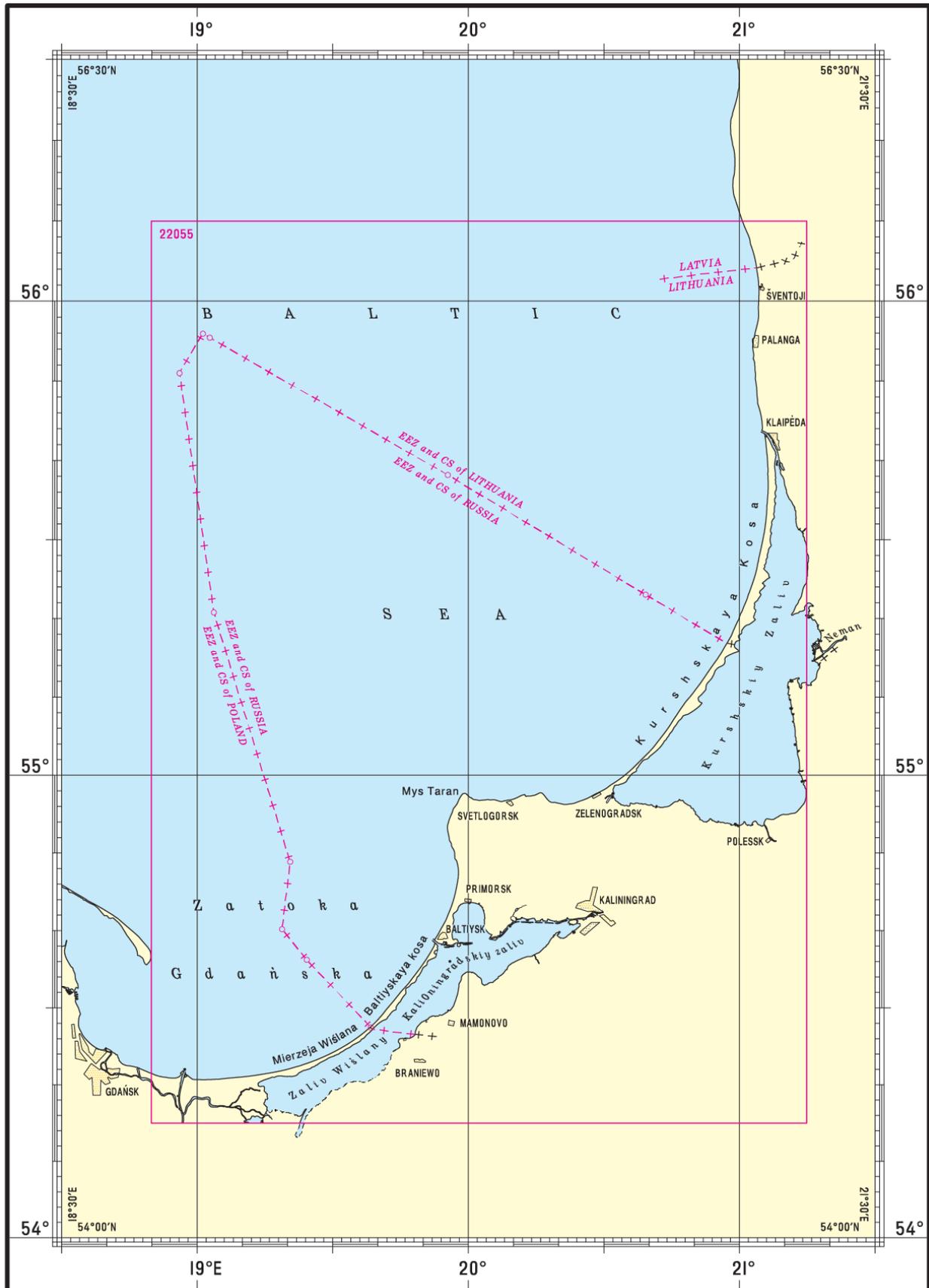


Fig. №5

The scheme of the national navigation paper charts, published in 2015-2016

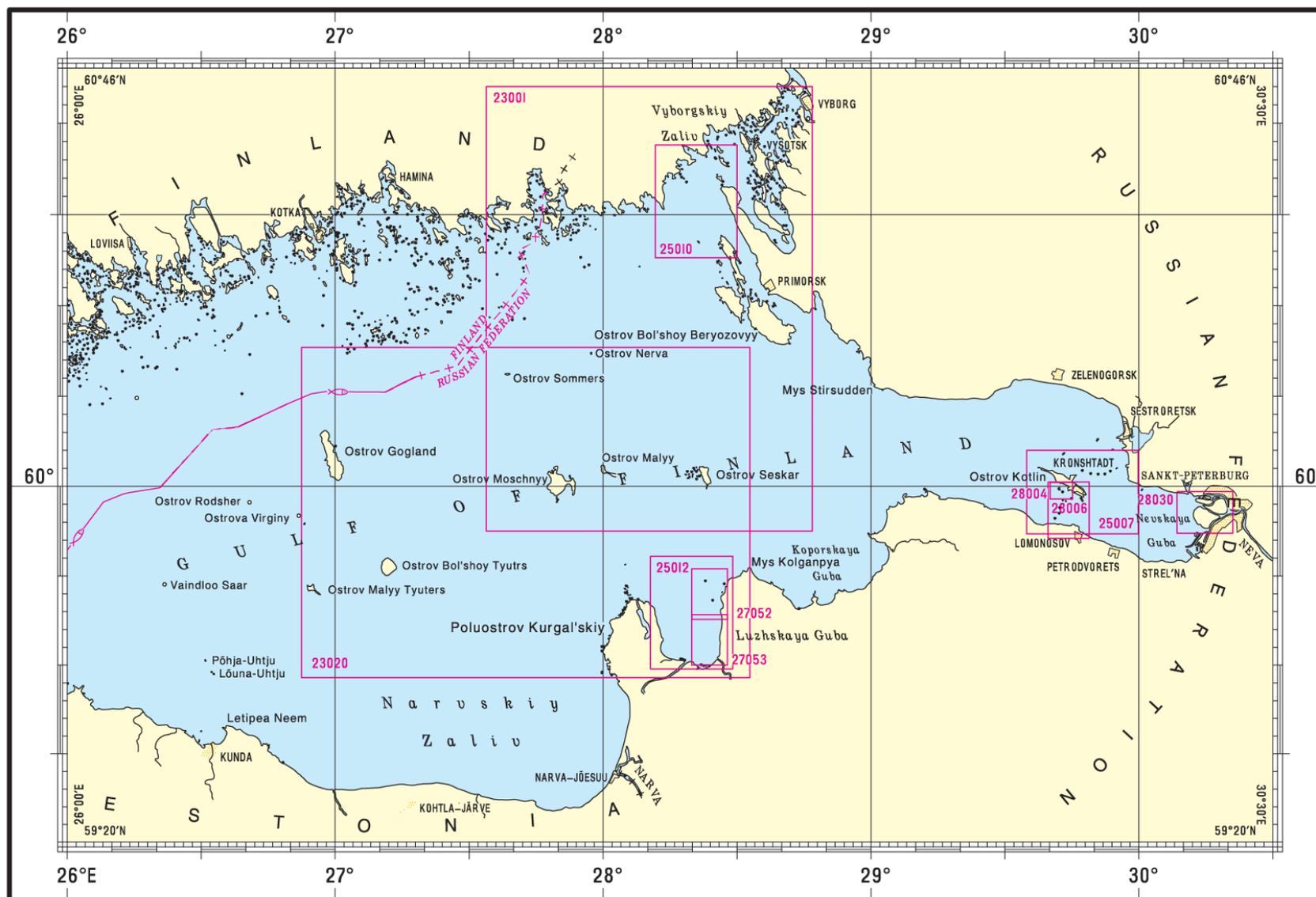


Fig. №6

3.6. System of the printing the charts on-demand.

Since 2011 the published nautical charts are replicated by method of the printing of charts on-demand. Currently the base of the printing of charts on demand contains more than 3430 nautical charts.

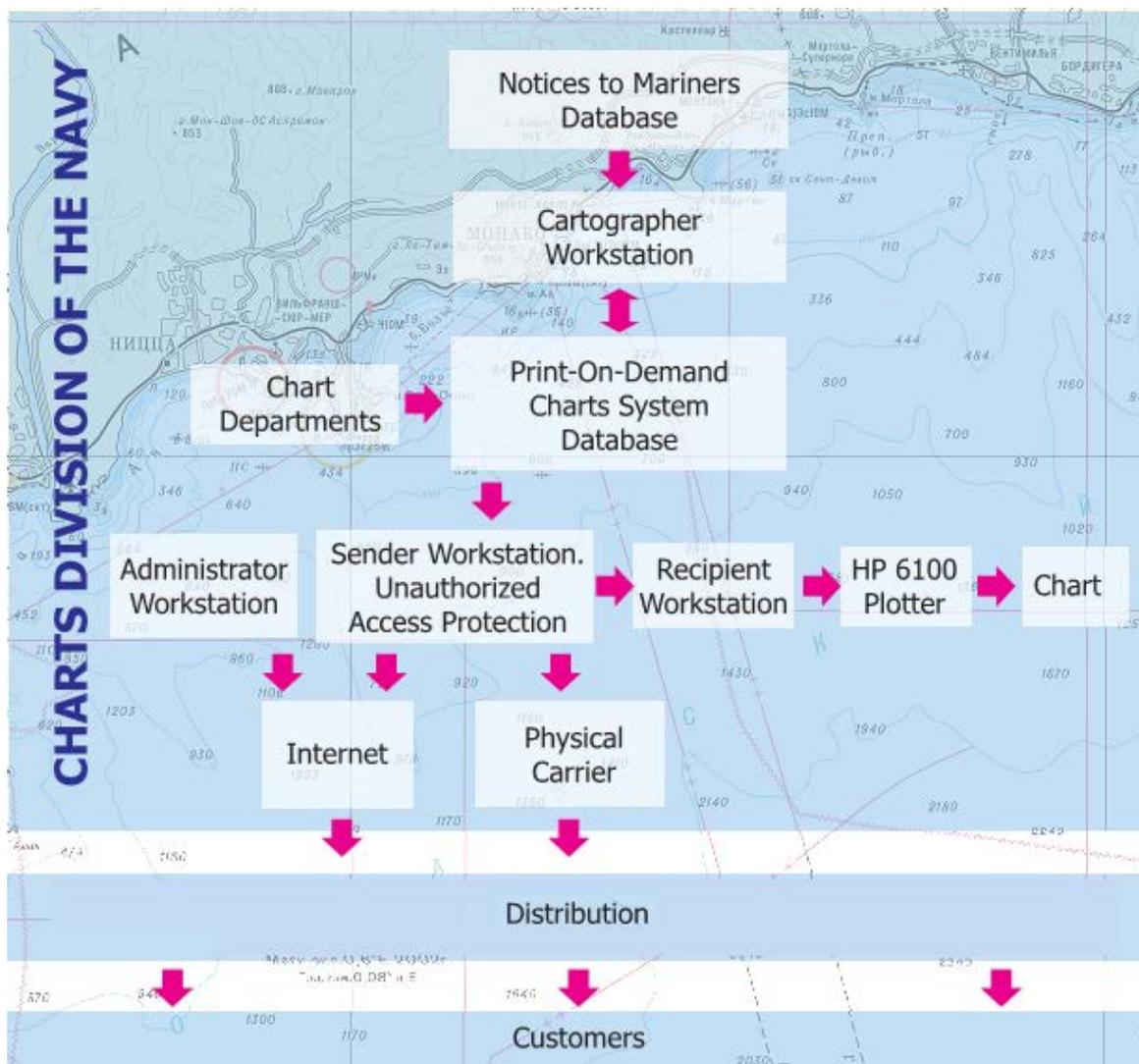


Fig. №7

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.

The updates of the published publications were carried out by means of Notices to mariners of DNO 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 World Wide Navigational Warning Service (WWNWS) Maritime Safety Information (MSI) in the Russian Federation, extends:

- on the region of the XIII WWNWS in the form of warnings of NAVAREA XIII;
- on region of XX and XXI - in the form of warnings of NAVAREA XX and XXI;
- on region of the Russian national zone of responsibility in the form of coastal warnings (COASTAL WARNINGS – in English, PRIP – in Russian) over regions.

In the Baltic region:

- Kaliningrad (Southeast part of the Baltic Sea);
- Petersburg (East part of the Gulf of Finland).

The Russian Federation is one of nine coastal states, along with Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Germany and Denmark, which is carrying out functions of national coordinators in system Maritime Safety Information in the Baltic region (the coordinator of a sub district «Sub-Area» within NAVAREA I - Sweden).

Transfer of MSI of national Hydrographic Office is carried out on two regions of coastal preventions:

- the region of Coastal Warnings St. Petersburg (east part of the Gulf of Finland) - a zone of responsibility of Hydrographic Office of the Baltic Fleet;
- the region of Coastal Warnings Kaliningrad (southeast part of the Baltic Sea) - a zone of responsibility of Hydrographic Office of the Baltic Fleet.

The region of the announcement Coastal Warnings in the Baltic Sea



Fig. №8

Table №6

Number of the announced Coastal Warnings in the Baltic Sea

| Region | 2013 | 2014 | 2015 |
|----------------|------|------|------|
| CW Petersburg | 416 | 480 | 352 |
| CW Kaliningrad | 165 | 155 | 216 |

5.2. New infrastructure according to the Master plan of the Global Maritime Distress and Safety System (GMDSS).

Control, over the implementation of obligations for creation and functioning of GMDSS and informing International Hydrographic Organization on the means of a radio communication providing GMDSS it is assigned to the Ministry of Transport of the Russian Federation.

5.3. The arisen problems.

Absence of own Russian stations NAVTEX on the Baltic Sea. Transfer of the Russian Coastal Warnings in NAVTEX system is made by stations Tallinn (Estonia) and Gislövshammar (Sweden). Coordinating of process is carried out by the coordinator of a sub district within NAVAREA I (Sweden).

Construction of NAVTEX station in St. Petersburg is provided in long-term plans.

6. S-55.

6.1. Latest updates.

IHO publication S-55 «The status of hydrographical surveys and nautical cartography around the world».

The Russian Federation Water Area in Baltic Sea – 23 460 sq. km

Depths < 200 m - 23 460 sq. km

East Part of the Gulf of Finland – 11 990 sq. km

South-East Part of the Baltic Sea – 11 470 sq. km

Table №7

Survey coverage

| Depths Range | Sufficiently surveyed areas | Areas requiring re-survey | Areas which were never investigated systematically |
|---------------------|------------------------------------|----------------------------------|---|
| Depths < 200 m | 99,7% | 0,3% | - |
| Depths > 200 m | - | - | - |

7. Capacity-building.

No information to include in the report. The question is out of competence of «280 Navy CCP».

8. Oceanographic Activities.

No information to include in the report.

9. Other Activities.

9.1. Participation in the IHO working groups.

The national Hydrographic Office in the person of DNO RF MD officially is the member and takes active part in work of the following commissions and the working groups IHO: Baltic Sea Hydrographic Commission, Mediterranean and Black Seas Hydrographic Commission, Arctic Regional Hydrographic Commission, Hydrographic Commission on Antarctica, Helsinki Commission, Sub-Committee World-Wide Navigational Warning Service, Enc Standards Maintenance Working Group, Nautical Information Provision Working Group, Transfer Standard Maintenance and Application Development Working Group.

10. Conclusion.

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

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