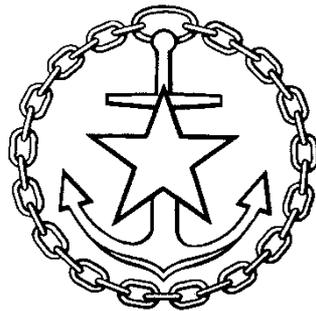


**DEPARTMENT OF NAVIGATION AND OCEANOGRAPHY  
OF THE MINISTRY OF DEFENSE OF THE RUSSIAN FEDERATION**

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**NATIONAL REPORT  
OF THE RUSSIAN FEDERATION**



**20<sup>TH</sup> MEETING OF THE HYDROGRAPHIC COMMISSION  
OF THE BALTIC SEA**

**Russian Federation, St. Petersburg, on September 16-18, 2015**

## **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 routes of the Northern Sea Route, are attributed to competence of the Ministry of Defense 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 of the Ministry of Defense of the Russian Federation (farther - DNO MD RF).

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 routes of the Northern Sea Route.

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

Management 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.

## 1. Surveys

### 2.1. Areas of coverage by new surveys

**Table №1**

**The list of hydrographic coverage on 2014-2015**

Item №	Area of works	Kind of works	Date execution of works	Scale	Quantity of the tablets	Volume of works	
						Sq. km	km
1	2	3	4	5	6	7	8
<b>Baltic Sea</b>							
1	Water area of Yelaginskiy Fairway	Area survey and Sounding	2014	1:1 000	5	0.76	96
2	Water area of Reka Yekateringofka and Malyy Gutuyevskiy Kovsh	Area survey, Sounding and Topographical survey	2014	1:2 000 1:500	3 1	0.51 0.1 - topo	
3	Seaport «Bol'shoy Port Sankt-Peterburg», Water area of Barochnyy Bassein	Area survey	2014	1:2 000	1	0.6	
4	Sankt-Peterburg, Damba Grebyonka (berths №48-52 JSC «Petrolsport»)	Topographical survey	2014	1:2 000	1		1.4

5	Water area of objects Uploading-Loading Complex -Vysotsk «Lukoil-II»: Anchorage №18E navigable path Anchorage №18 Anchorage №18Д Terminal Uploading- Loading Complex Vysotsk «Lukoil -II» and Approaching Kanal	Area survey, Sounding and Topographical survey	2014	1:2 000	64	50.944	32.5- Control sounding
6	Water area of the Kanal Vyborg – Vysotsk	Area survey, Sounding and Topographical survey	2014	1:1 000	43	4.23	11.2- Control sounding
7	Water area of object «Terminal on the production and transshipment of liquefied hydrocarbon gas in Port Vysotsk»	Area survey, Sounding and Topographical survey	2014	1:2 000	1	0.55	21.5 0.6-topo
8	Water area of Luzhskiy Zapadnyy Kanal, Luzhskiy Zapadnyy Fairway and Fairway №1	Area survey	2014	1:1 000 1:2 000	3 3	0.86	

9	Water area of Yelaginskiy Fairway (fairway12a)	Area survey and Sounding	2014	1:2 000	2	0.387	2.8
10	Operational basin on water area of Automobile-Railway-Ferry Complex in Port Ust'- Luga Luzhskiy Zapadnyy Kanal Yuzhnyy Aproaching Kanal and Severnyy Aproaching Kanal and water area Commercial Seaport Ust'- Luga Section Luzhskiy Zapadnyy Fairway Section №3 Bol'shoy Korabel'nyy Fairway Approaching Kanal to Mouth of Reka Luga The dam of the protective structure water area of south region in the Port Ust'- Luga	Area survey and Sounding	2014	1: 500	1	11.65	42.48- Sounding
				1:2 000	19		
11	Water area of Severnyy Approaching Kanal of Seaport Ust'- Luga	Area survey	2014	1: 500	5	1.7	
				1:2 000	4		



The scheme of hydrographic coverage on condition as of 2015

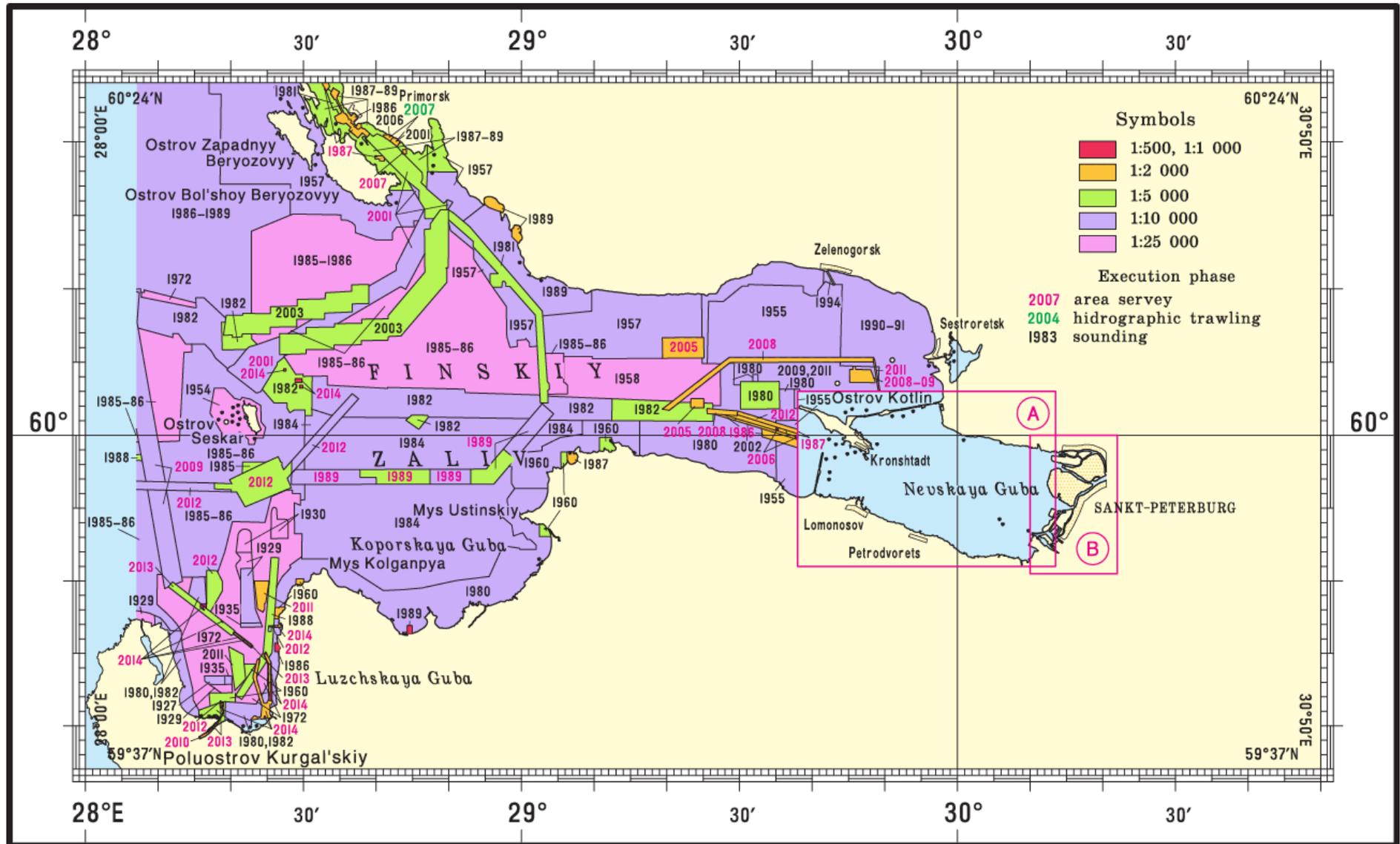


Fig. №2

The scheme of hydrographic coverage on condition as of 2015

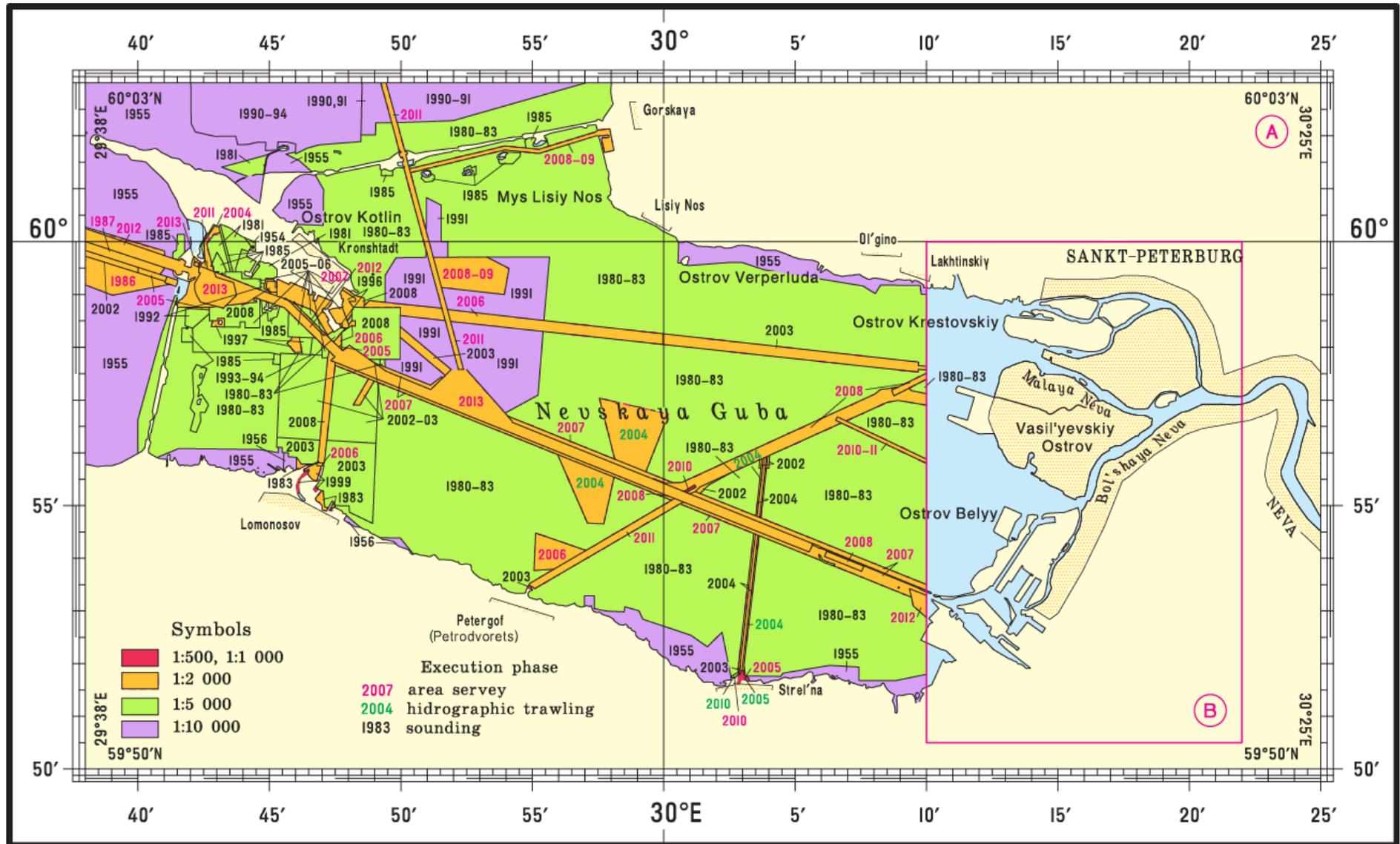


Fig. №3

## The scheme of hydrographic coverage on condition as of 2015

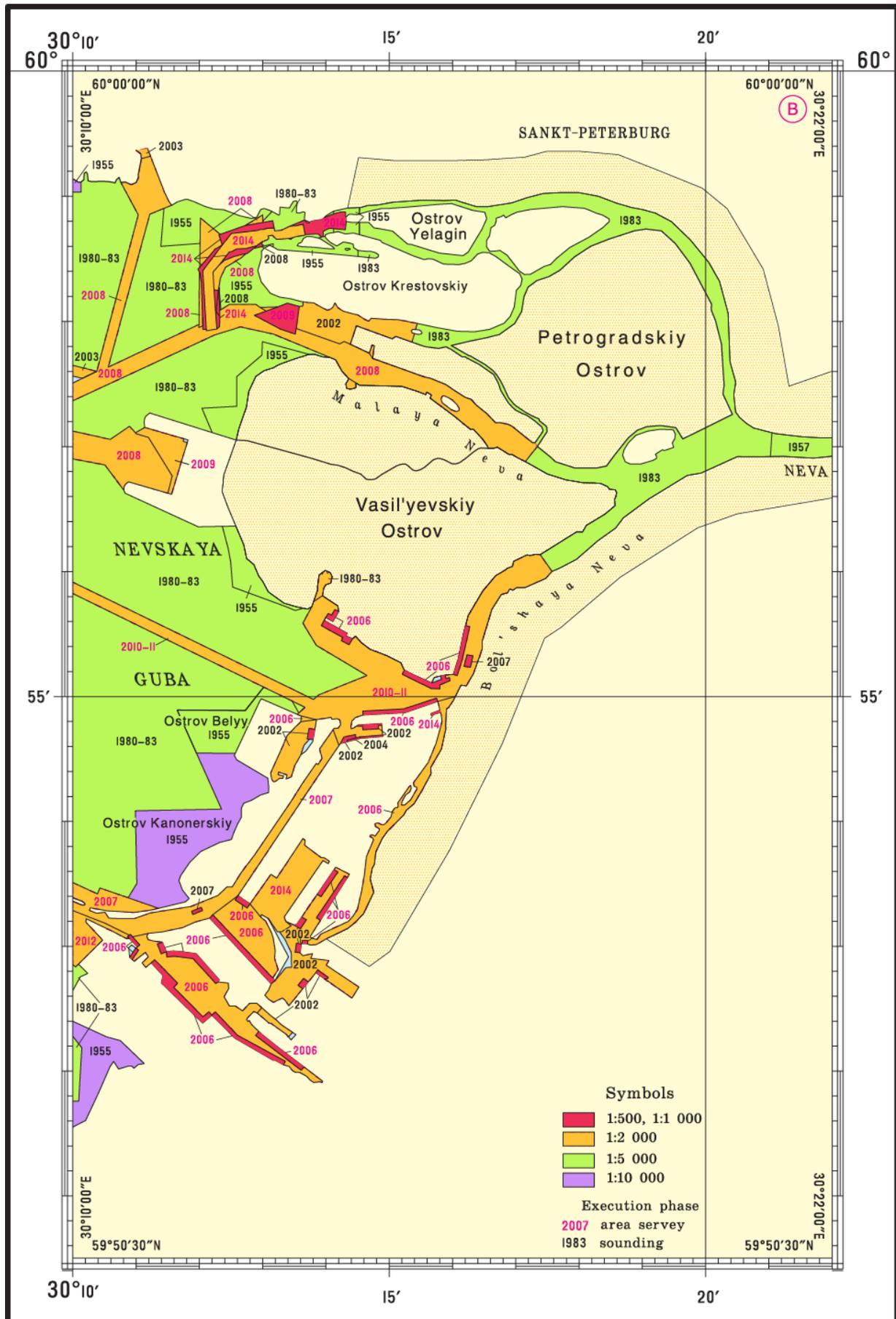


Fig. №4

## 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 on 2014-2015**

<b>Item №</b>	<b>Cell number</b>	<b>Name of the area</b>	<b>Scale</b>	<b>Date of new edition</b>
<b>East part of the Gulf of Finland</b>				
1.	RU4NSKO0	Luzhskaya Guba.	1:22 000	2014
2.	RU5NKT0	Bol'shoy Kronshtadtskiy Road	1:4 000	2014
3.	RU5NKT3	Eastern Section of the Northern Routes of defense facilities from flood.	1:8 000	2014
4.	RU501KP0	Bol'shoy Tranzundskiy Road.	1:8 000	2014
5.	RU5NTP3	Luzhskaya Guba. Port Ust'-Luga.	1:8 000	2014
6.	RU5NSKO0	Luzhskaya Guba. Approaches to Mouth Reka Luga.	1:12 000	2015
7.	RU4NTKK9	Ostrov Gogland to Ostrov Malyy.	1:45 000	2015
8.	RU4NTKS9	Ostrov Kotlin and approaches.	1:22 000	2015
9.	RU5NTKK9	Ostrov Gogland.	1:22 000	2015
10.	RU600KK0	Ostrov Gogland. Bukhta Suurkyulya-Lakhti.	1:4 000	2015
11.	RU600KL0	Ostrov Gogland. Bukhta Kiyskinkyulya.	1:4 000	2015
12.	RU600KK1	Ostrov Gogland. Bukhta Limonnikova.	1:4 000	2015



### 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 MD RF does not distribute RNCs.

### 3.4. International charts (INT).

DNO MD RF within the Hydrographic commission of the Baltic Sea publishes charts with a letter of "INT"

**Table №3**

**The list of the international charts, published in 2014-2015.**

<b>Item №</b>	<b>№ INT-charts</b>	<b>№ RF-charts</b>	<b>Chart name</b>	<b>Scale</b>	<b>Date of new edition</b>	<b>Initial materials</b>
1.	1023	21001	Baltic Sea. Gulf of Finland.	1:500 000	2014	Sounding, topographical survey
2.	1263	27047	Gulf of Finland. Nevskaya Guba. Morskoy Port Sankt-Peterburg	1:10 000	2015	Sounding, topographical survey
3.	1285	27004	Baltic Sea. South part. Kaliningradskiy Morskoy Kanal. Povорот Izhevskiy.	1:5 000	2014	Sounding

### 3.5. National paper charts.

On the waters of the Baltic Sea, which are under jurisdiction of Russian Federation UNIO MO Russian Federation 11 navigation sea charts are published. The collection is supported at the level of presenting by means of updates and re-publishing of charts in process of obtaining 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 Defense 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 2014-2015

Item №	Adm. №	Name of the area	Scale	Date of new edition	Kind of works
1.	23000	Baltic Sea. Sankt-Peterburg to Shepelevskiy Lighthouse.	1:100 000	2014	Sounding
2.	25001	Baltic Sea. Gulf of Finland. Kronshtadt to Shepelevskiy Lighthouse.	1:50 000	2014	Sounding
3.	25055	Baltic Sea. Gulf of Finland. Moschnyy to Ostrov Gogland.	1:50 000	2014	Sounding, topographical survey
4.	27045	Gulf of Finland. Sankt-Peterburg. Reka Bol'shaya Neva. Kononerskiy Ostrov to Dvortsovyy Most.	1:5 000	2014	Sounding, topographical survey
5.	28005	Baltic Sea. Gulf of Finland. Malyy Kronshtadskiy Reyd.	1:5 000	2014	Sounding
6.	28020	Baltic Sea. Gulf of Finland. Ostrov Moschnyy and Malyy Ostrov.	1:25 000	2014	Sounding
7.	28021	Baltic Sea. Gulf of Finland. Ostrov Gogland.	1:25 000	2014	Sounding, topographical survey
8.	28057	Baltic Sea. Gulf of Finland. Ostrov Seskar to Ostrov Malyy	1:25 000	2014	Sounding, topographical survey
9.	23001	Baltic Sea. Gulf of Finland. Port Primorsk to Ostrov Sommers	1:100 000	2015	Area survey, Sounding
10.	27053	Baltic Sea. Gulf of Finland. Luzshskaya Guba. Port Ust'-Luga.	1:10 000	2015	Sounding
11.	28030	Gulf of Finland. Nevskaya Guba. Reka Neva Del'ta.	1:12 500	2015	Sounding, topographical survey

**Table №5**

<b>Scale</b>	<b>National charts</b>	<b>International charts</b>	<b><math>\Sigma</math></b>
1:500 000		1	1
1:100 000	2		2
1:75 000			
1:50 000	2		2
1:40 000			
1:25 000 and more largely	7	2	9
$\Sigma$	11	3	14

## The scheme of cartographical-national navigation paper charts on 2014-2015

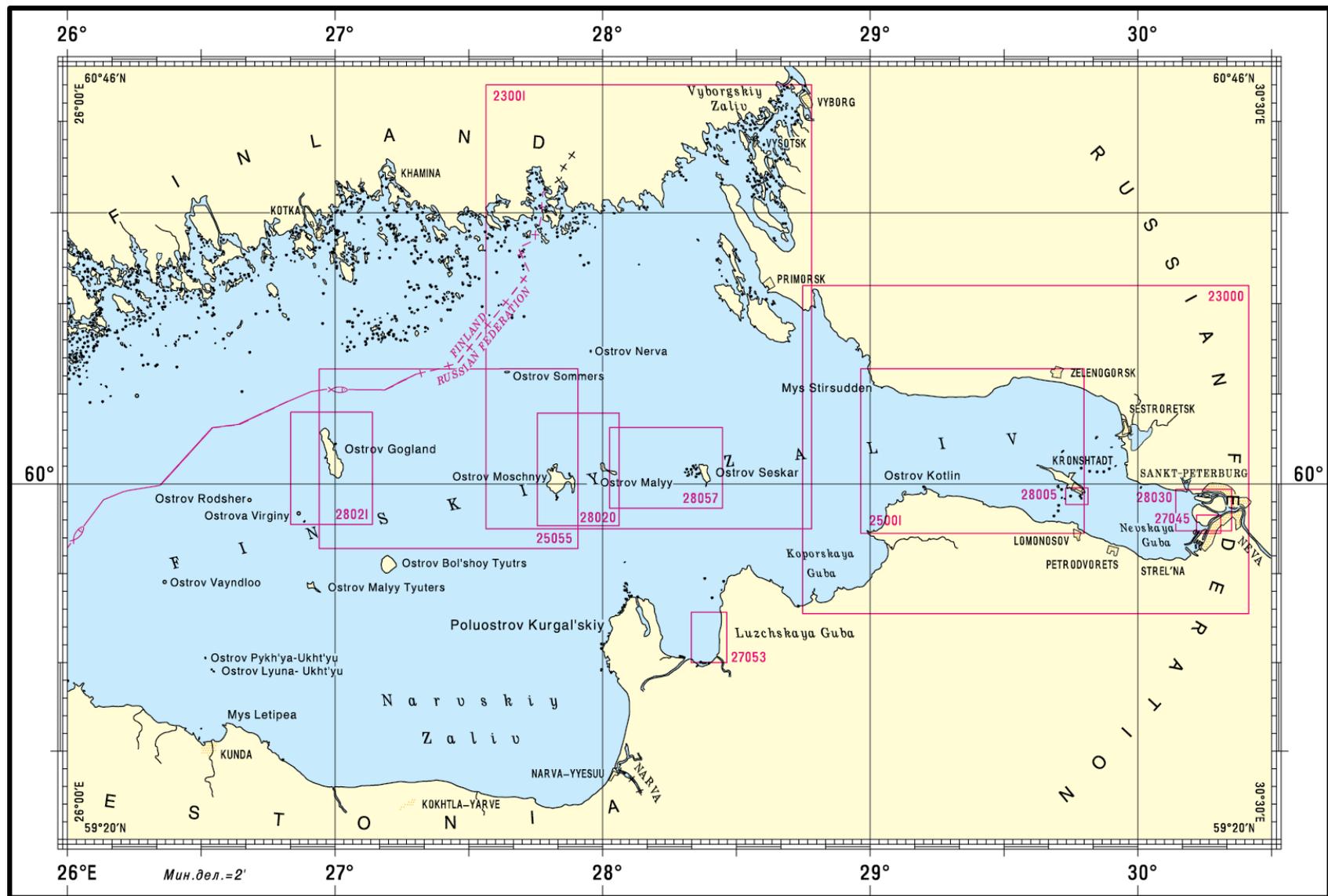
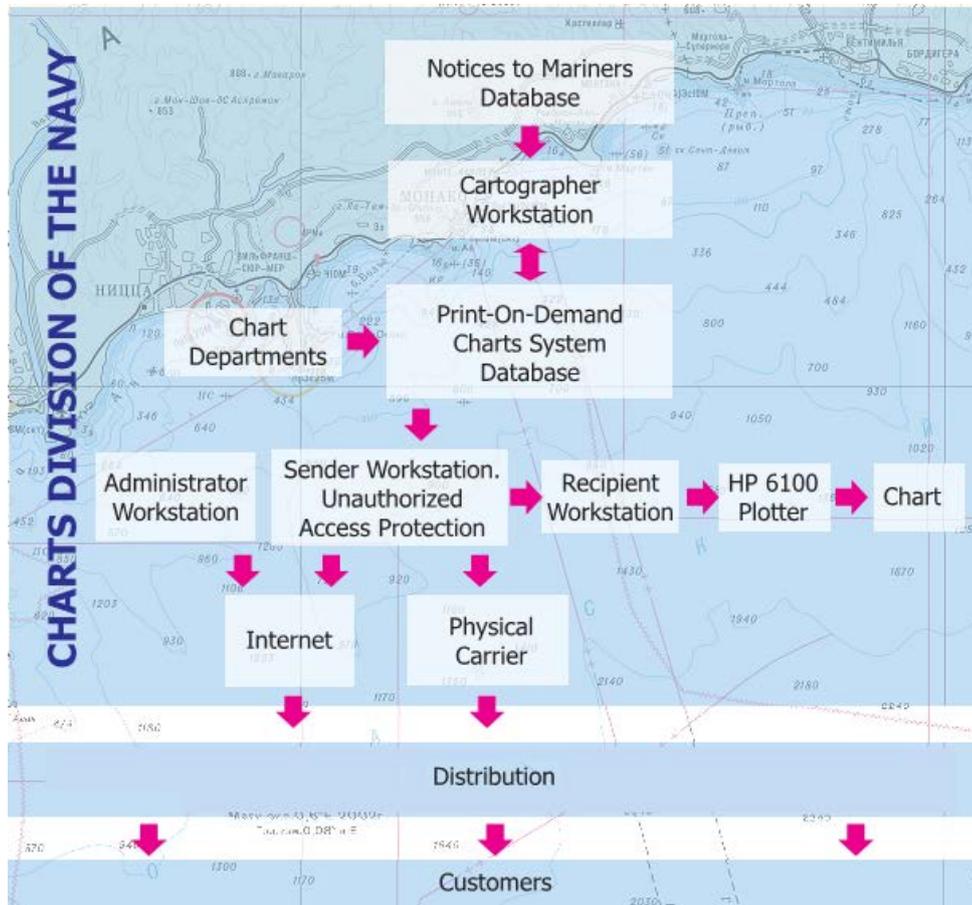


Fig. №6

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

Since 2011, editable nautical marine charts are circulate by method of the printing the charts on-demand. Currently in base of printing the charts on-demand contains more than 3350 nautical marine charts.



**Fig. №7**

#### 4. New publications and updates

##### 4.1. New publications.

Table №6

Item №	Adm. №	Name	Date of new edition	Note
1.	1200	Sailing directions of the Baltic Sea. General review.	2015	Are prepared for the edition
2.	1203	Sailing directions of the Baltic Sea, part II Southern part of the sea.	2015	Are prepared for the edition

##### 4.2. Updated publications.

The updates of the published publications were carried out by means of Notices to mariners of DNO MD RF.

##### 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.

In the Russian Federation, Maritime Safety Information (MSI) within the World Wide Navigational Warning Service (WWNWS) extends:

- on the region of the XIII WWNWS in the form of warnings of NAVAREA XIII;
- on region's of XX and XXI - in the form of warnings of NAVAREA XX and XXI;
- on region's 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);
- Sankt-Peterburg (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, the national coordinators who are carrying out functions in system of distribution of information on safety of navigation in Baltiysk the 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 CW St. Petersburg (east part of the Gulf of Finland) - a zone of responsibility of Hydrographic Office of the Baltic Fleet;
- the region of CW Kaliningrad (southeast part of the Baltic Sea) - a zone of responsibility of Hydrographic Office of the Baltic Fleet.

Russia has no NAVTEX stations on Baltic Sea. Transfer of the Russian Coastal Warnings in NAVTEX system is made by stations Tallinn (Estonia) and Yislyovkhammar (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.

Problematic questions:

Absence of own station NAVTEX in the region.

### The area of the announcement of the Russian Coastal Warnings in the Baltic Sea

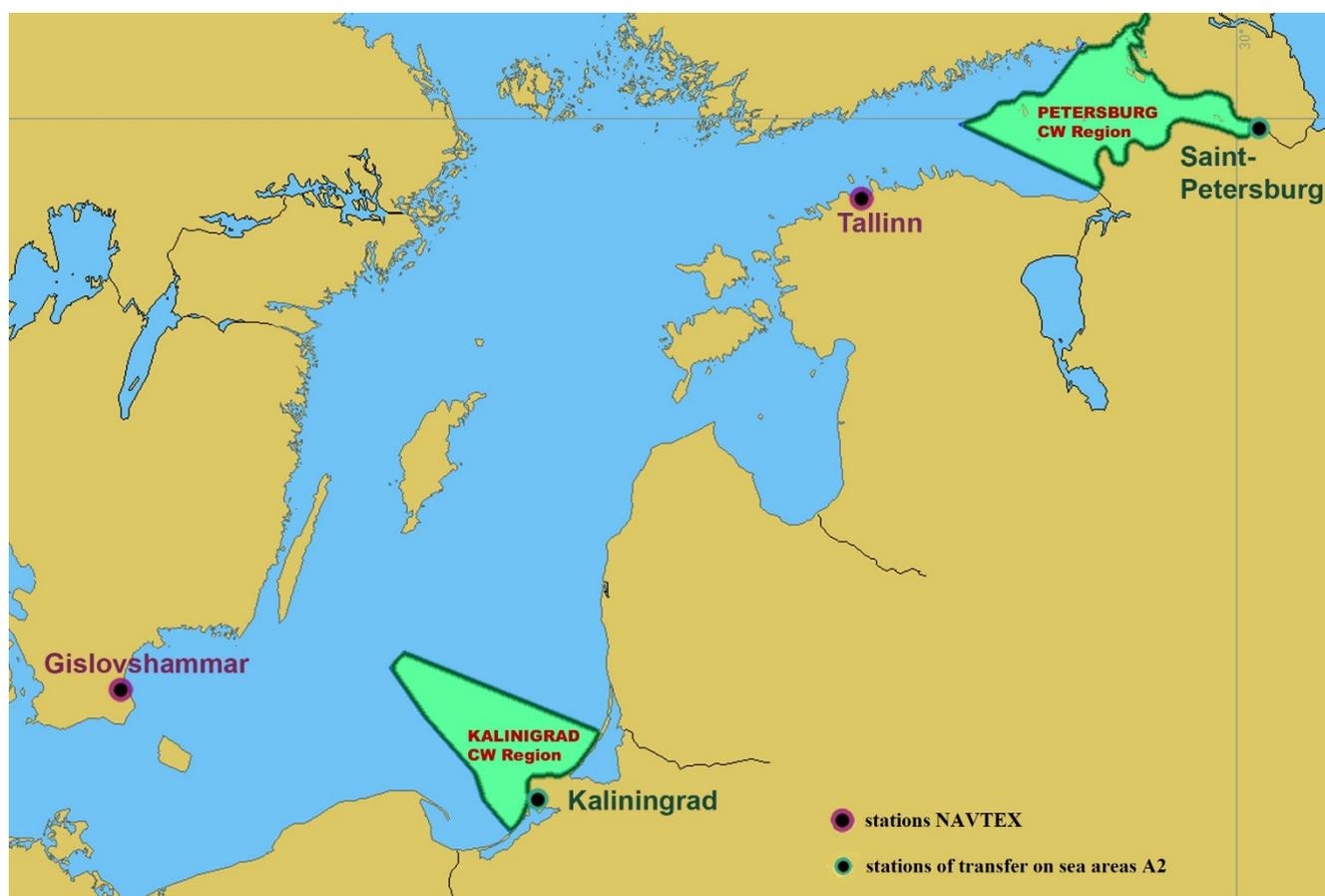


Fig. №8

**Table №7****Number of the announced Coastal Warnings**

Area Coastal Warnings	2012	2013	2014
Coastal Warnings Sankt-Peterburg	416	480	352
Coastal Warnings Kaliningrad	165	155	216

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

For the period, which passed from last meeting of the commission of changes according to the Master plan of GMDSS are not present.

**6. S-55.**

## 6.1. Latest updates.

S-55 - the special publication IHO «Condition of hydrographic survey and of sea navigation mapping around the world».

According to the requirements stated to S-55, of DNO MD RF submits data each 2 years by preparation for the next commission of MBSHC.

The water area of the Russian Federation in the Baltic Sea – 23 460 sq. km

Depths < 200 m - 23 460 sq. km

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

Southeast part of the Baltic Sea – 11 470 sq. km

**Table №8**

<b>Depth Range</b>	<b>Adequate survey %</b>	<b>Repeated survey is required %</b>	<b>No systematic survey %</b>
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. The question is out of competence of 280 Navy CCP.

## **9. Other Activities.**

### 9.1. Participation in the IHO working groups.

The national Hydrographic Office in the person of DNO MD RF officially is the member and takes active part in work of the following commissions, committees, subcommittees and the working groups IHO: BSHC, ARHC, IRCC, HSSC, MBSHC, HCA, WWNWS, LAWG, TSMAD, CSPCWG.

## **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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