

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

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



**The 5th MEETING OF ARCTIC REGIONAL
HYDROGRAPHIC COMMISSION**

Russian Federation, St. Petersburg, 28-30 October 2015

1. Hydrographic Office

In accordance with the legislation of the Russian Federation matters of navigational and hydrographic ensuring of navigation in sea waters of national jurisdiction of Russia except 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 navigational and hydrographic ensuring of navigation in sea 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 (DNO).

DNO 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 navigational and hydrographic ensuring of navigation and implements guidance of the Hydrographic Service of the Navy.

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

- performance of oceanographic, hydrographic and marine geophysical researches in sea waters of national jurisdiction of the Russian Federation and in the high sea;
- edition of charts, manuals and publications for mariners for all parts of the World Ocean and bringing them to the Russian and foreign seafarers;
- collecting and bringing to seafarers the information on changes of a navigation situation and the sailing regime in sea waters of national jurisdiction of the Russian Federation and in the high sea;
- maintenance, improvement and development of Aids-to-Navigation on the coast and in sea waters of national jurisdiction of the Russian Federation except the Northern Sea Route.

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

Regional Hydrographic Offices have expeditions, hydrographic groups and parties carrying out a complex of oceanographic, hydrographic and marine geophysical surveys, processing and transferring received materials to the Naval Chart Division for preparation and edition of charts, manuals and publications for mariners.

The Hydrographic Service of Navy participates in joint international oceanographic and hydrographic expeditions.

2. Surveys.

2.1. Coverage of new surveys.

Table 1

Hydrographic coverage in 2014-2015

№	Area of surveys	Surveys	Date of surveys	Scale	Quantity of survey plats	Volume of surveys	
						Sq. km	Km
1	2	3	4	5	6	7	8
Barents Sea							
1	Kol'skiy Zaliv, Water area of commercial Seaport Murmansk	Area survey, sounding and topographical survey	2014	1:500 1:1 000	2 2	0.16	
2	Kol'skiy Zaliv, Water area three sections of Seaport Murmansk	Topographical survey	2015	1:500 1:1 000	3 10	2.02	21.7- sounding
White Sea							
3	Water area of Seaport Arkhangel'sk	Orthophoto- planes	2014	1:5 000			

4	Kandalakshskiy Zaliv, approaches Water area to Port Kandalaksha (from bank Zimets to the Ostrova Gorelyye)	Sounding Area survey Topographical survey	2014	1:1 000	20 49	2.24	45.1- sounding 52.248- topo
Kara Sea							
5	Obskaya Guba Water area of Port Sabbeta under construction, approaches canal and maritime canal	Area survey	2014	1:2 000	48		

Hydrographic coverage in 2014-2015

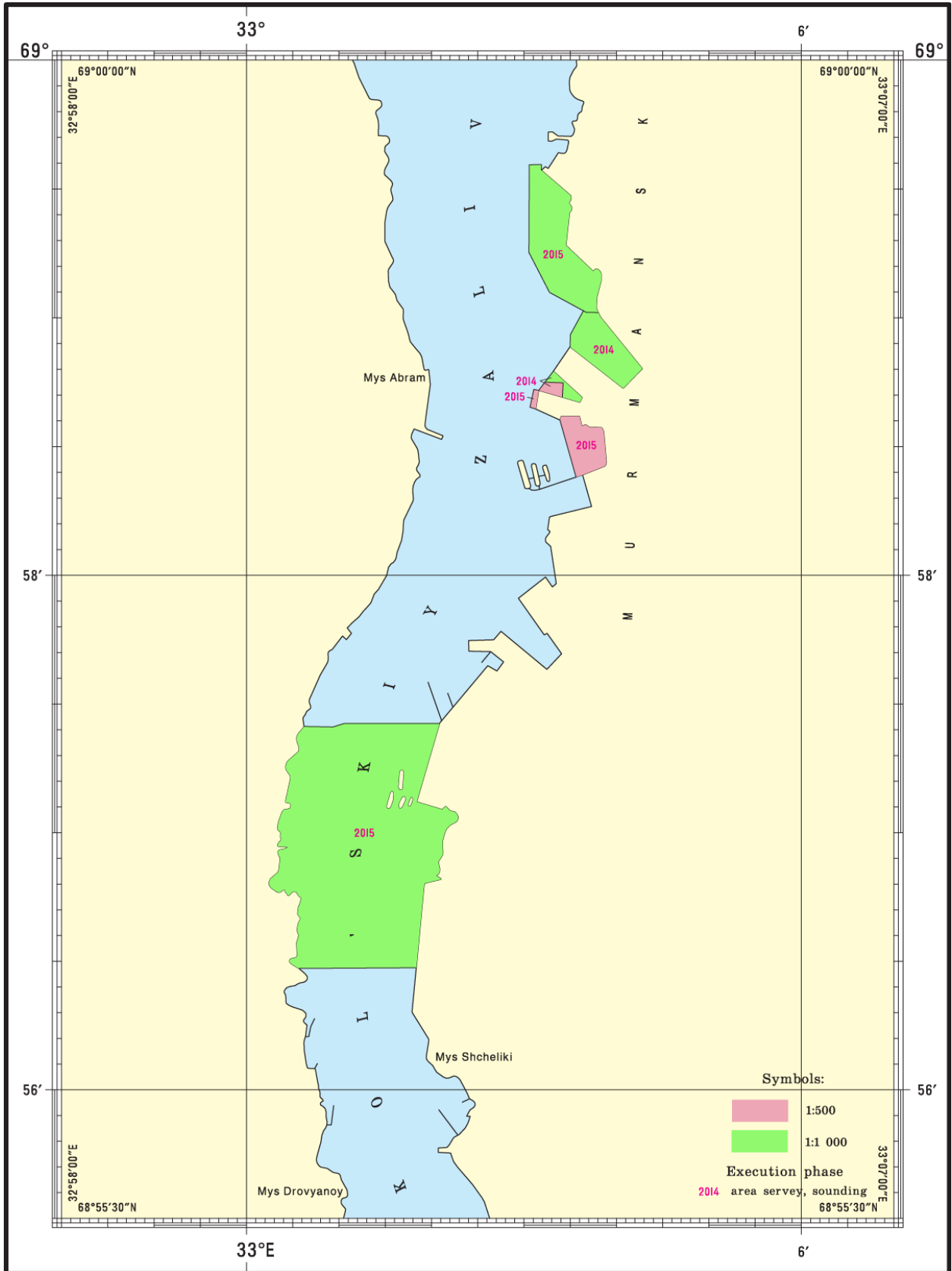


Fig. 1

Hydrographic coverage in 2014-2015

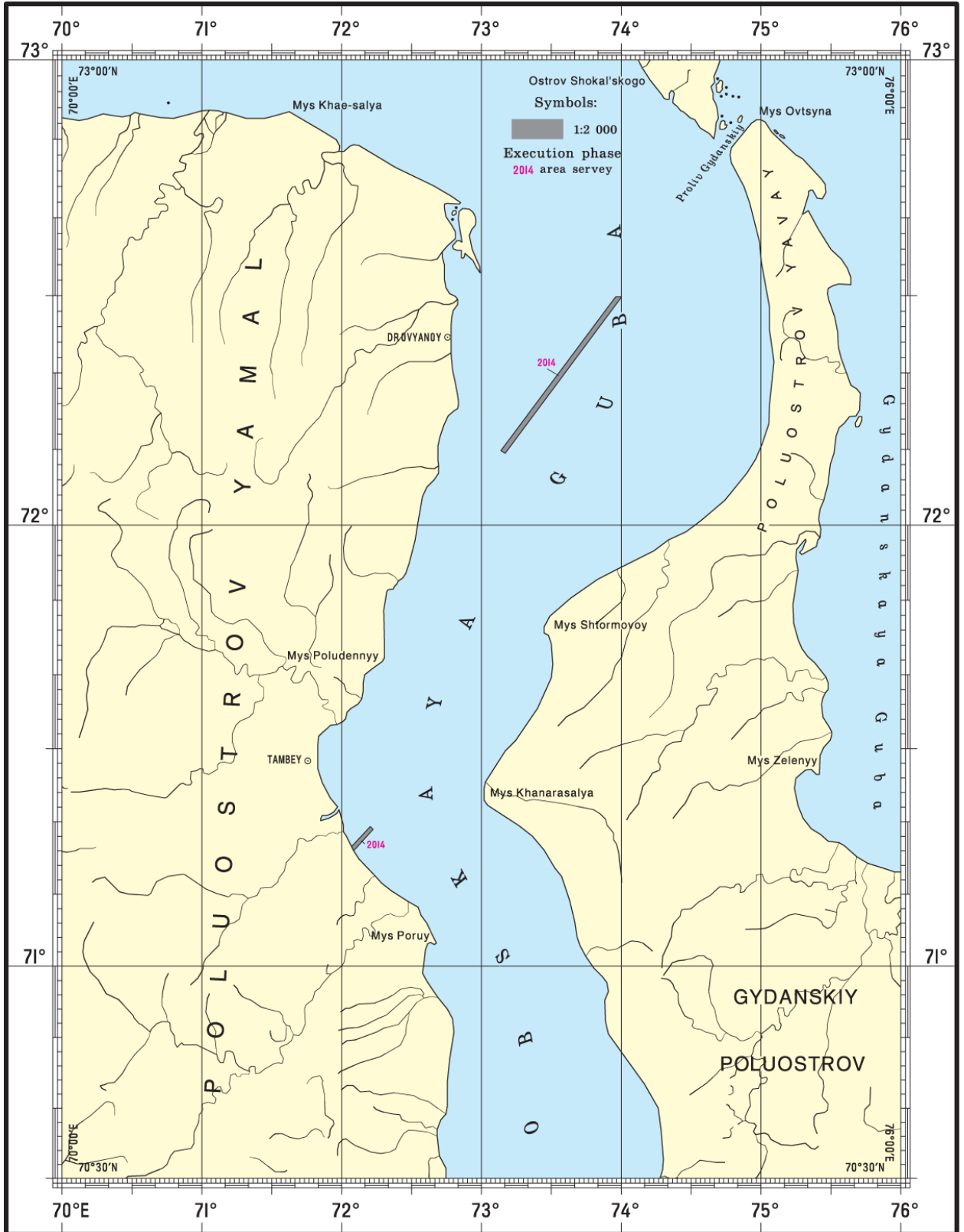


Fig. 2

Hydrographic coverage in 2014-2015

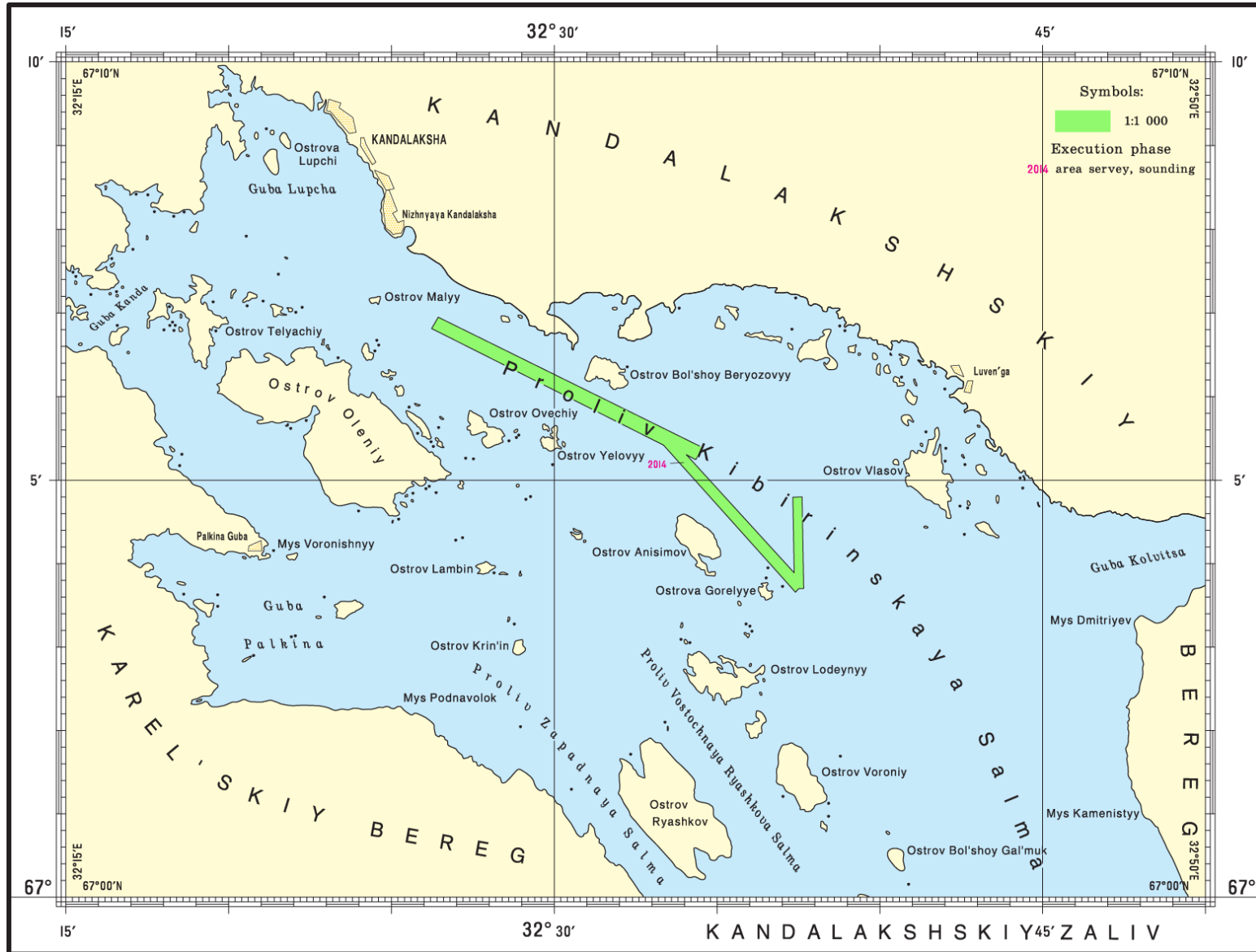


Fig. 3

2.2. New technologies and/or equipment.

No information to include in the report.

2.3. New vessels.

No information to include in the report.

3. New charts and updates.

3.1. Electronic navigational charts.

Table 2

List of electronic navigation charts updated in 2014-2015

№	Cell number	Name of the area	Scale	Date of new edition
Southern part of the Kara Sea Rivers Ob' and Yenisey				
1.	RU3P7OP0	Obskaya Inlet and Approaches.	180 000	2015
2.	RU3OMPJ0	Obskaya Inlet. Tazovskaya Inlet. Povorotnyy Point to Taz River.	180 000	2015
3.	RU3P6P60	Obskaya Inlet. Drovyanyoy Point to Sabkolyang'yakha River.	1:90 000	2015
4.	RU3P4P50	Obskaya Inlet. Nganoyakha River to Tambey Bay.	1:90 000	2015
5.	RU3P2P50	Obskaya Inlet. Tambey Bay to Vil'kitskiy Banks (Severnyye).	1:90 000	2015
6.	RU3P1P60	Obskaya Inlet. Khaltsyneysalya Point to Yantosyo Light Beacon.	1:90 000	2015
7.	RU3OTP50	Obskaya Inlet. Tadebyayakha Light Beacon to Lebedinyy Point.	1:90 000	2015
8.	RU3ORP60	Obskaya Inlet. Nalivnoy Point to Povorotnyy Point.	1:90 000	2015
9.	RU3OPPE0	Obskaya Inlet. Tazovskaya Inlet entrance.	1:90 000	2015
10.	RU3ONP70	Obskaya Inlet. Kamennaya Bay to Grdiny Point.	1:90 000	2015
11.	RU3OPP70	Obskaya Inlet. Tryokhbugornyy Point to Kamenny Point.	1:90 000	2015
12.	RU3OMP70	Obskaya Inlet. Port Yamburg to	1:90 000	2015

		Saletayakha River.		
13.	RU3P5PS0	Yeniseyskiy Gulf. Bol'shoy Korsakovskiy Island to Sopochnaya Karga Point.	1:90 000	2015
14.	RU4OMQI0	Yenisey River. Verhnekhantayskiy Leading Line to Igarka Port.	1:45 000	2015
15.	RU4OOQH0	Yenisey River. Malyy Luzinskiy Island to Verhnekhantayskiy Leading Line.	1:45 000	2015
16.	RU4OQQG0	Yenisey River. Gribanovskiy Island to Nikol'skiy RECTRC.	1:45 000	2015
17.	RU4ORQG0	Yenisey River. Malyy Leont'yevskiy Island to Kabatskiy Island.	1:45 000	2015
18.	RU4OSQA0	Yenisey River. Kazantsevskiy Point to Funtusovskiy Island.	1:45 000	2015
19.	RU4OSQE0	Yenisey River. Nikitinskiy Island to Malyy Leont'yevskiy Island.	1:45 000	2015
20.	RU4OTQ90	Yenisey River. Sechenskaya Bank to Kazantseva Kosa Point.	1:45 000	2015
21.	RU4P0Q70	Yenisey River. Okhotskiy Opechek Island to Karaul Settlement.	1:45 000	2015
22.	RU4P2Q80	Yenisey River. Yakovlev River to Baykalovsk Settlement.	1:45 000	2015
23.	RU4P0Q80	Yenisey River. Baykalovsk Settlement to Peschanyye Islands.	1:45 000	2015
24.	RU4P3Q70	Yenisey River. Dorofeevskiy Point to Yakovleva River.	1:45 000	2015
25.	RU4P4Q80	Yenisey River. Gol'chikha River to Dorofeevskiy Point.	1:45 000	2015
26.	RU4P5Q70	Yenisey River. Sorochnaya Karga Point to Gol'chikha River.	1:45 000	2015
27.	RU4P7PT0	Yeniseyskiy Gulf. Krest'yanka River to Krestovskiy Island.	1:45 000	2015
28.	RU4P8PT0	Yeniseyskiy Gulf. Isachenko Point to Krest'yanka River.	1:45 000	2015
29.	RU4P6Q00	Yeniseyskiy Gulf. Krestovskiy and Moskva Straits and approaches.	1:45 000	2015
30.	RU4P9PT0	Kara Sea. Dikson Island and approaches.	1:45 000	2015
31.	RU4P7PC0	Obskaya Inlet. Shokal'skiy Island to Ngarka-Tabeyakha River.	1:45 000	2015
32.	RU4P6PC0	Obskaya Inlet. Nyudya-Tetnedayakha River to Yacor' Light Beacon.	1:45 000	2015

33.	RU4P5PB0	Obskaya Inlet. Adareyyakha River to Nyudya-Tetnedayakha River.	1:45 000	2015
34.	RU4OOPA0	Obskaya Inlet. Snegovoy Yar Bluff to Kamennaya Bay.	1:45 000	2015
35.	RU4OMP80	Obskaya Inlet. Novyy Port with approaches.	1:45 000	2015
36.	RU4P4P50	Obskaya Inlet. Tambey Bay and approaches.	1:22 000	2015
37.	RU5OPQI0	Yenisey River. Lipatnikovskiy Ford and approaches.	1:22 000	2015
38.	RU5P1Q90	Yenisey River. Turushinskiy Ford.	1:22 000	2015
39.	RU5PAQ09	Kara Sea. Port Dikson and approaches.	1:22 000	2015
40.	RU5ORQH0	Kara Sea. Yenisey River. Approaches to Port Dudinka.	1:22 000	2015
41.	RU5ORQH1	Yenisey River. Sitkovskaya and Gribovskaya Distributaries.	1:22 000	2015
42.	RU5ONPE0	Obskaya Inlet. Port Yamburg and approaches.	1:8 000	2015
43.	RU5OPPA0	Obskaya Inlet. Approaches to Kamenny Point.	1:12 000	2015
44.	RU5P4P50	Obskaya Inlet. Tambey River entrance.	1:4 000	2015
45.	RU5OIQJ0	Yenisey River. Khantayka River Mouth.	1:4 000	2015
46.	RU5OTQA0	Yenisey River. Fairway SE of Bol'shoy Island.	1:8 000	2015
47.	RU5OMQJ0	Kara Sea. Yenisey River. Port Igarka and approaches.	1:12 000	2015
48.	RU6OSQI0	Yenisey River. Port Dudinka.	1:4 000	2015

The scheme of electronic navigation charts on 2014-2015

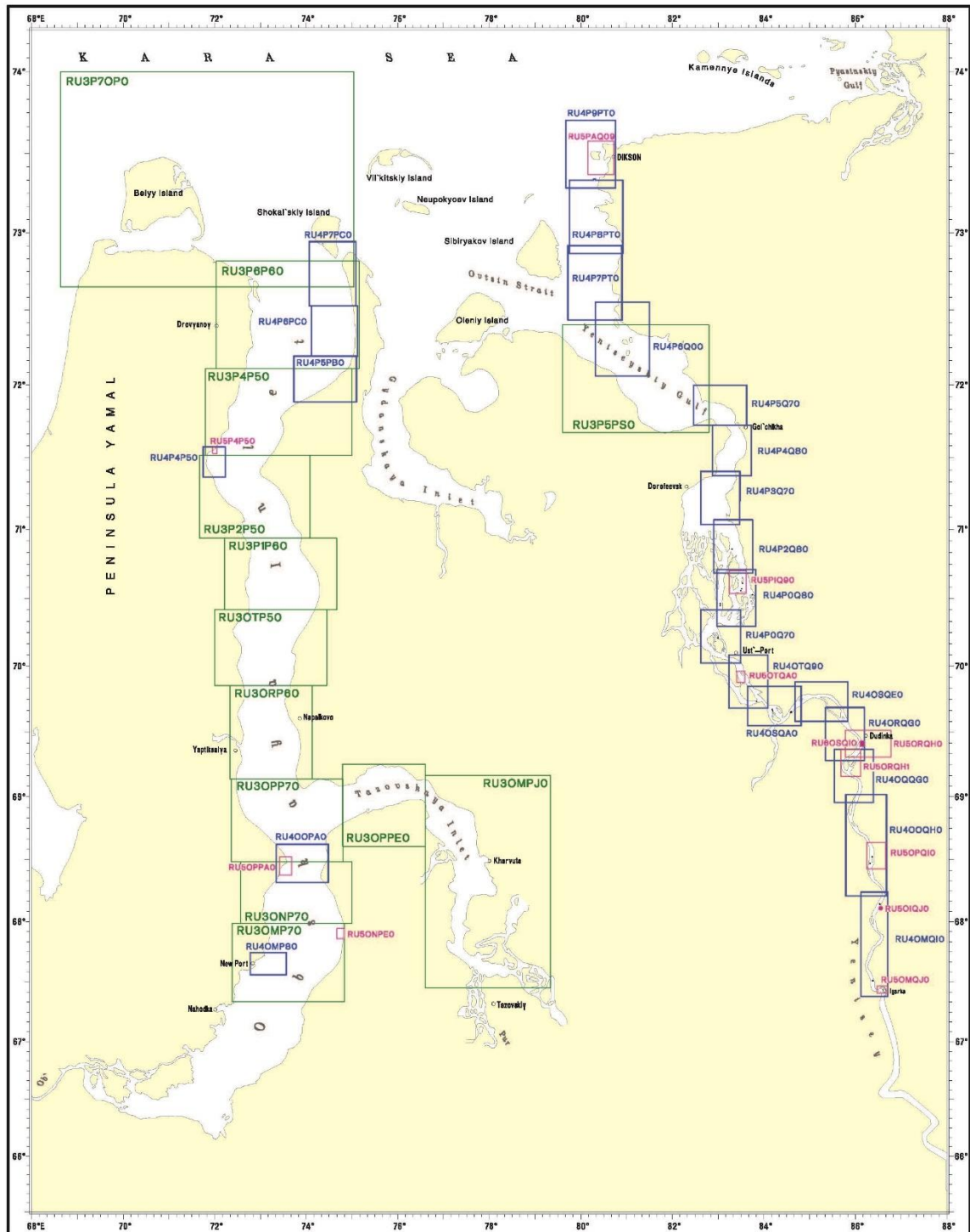


Fig. 4

3.2. Method of ENC distribution.

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

3.3. Raster navigational charts (RNCs).

DNO does not distribute RNCs.

3.1. No information to include in the report.

3.2. No information to include in the report.

3.3. No information to include in the report.

3.4. International Charts (INT).

INT charts was not published.

3.5. National Paper Charts.

On the Arctic waters which are under jurisdiction of Russian Federation the DNO has a collection of 891 charts. The collection is being supported by means of updates and republishing in process of receipt of new hydrographic data.

Electronic versions of Notices to mariners and Bulletins of navigation warnings in 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 3

Scale	National charts
1:2 500 000	1
1:2 000 000	7
1:750 000	1
1:700 000	1
1:500 000	40
1:200 000	112
1:100 000	218
Larger than 1:100 000	511
Σ	891

Cartographic coverage of the Central Arctic Basin

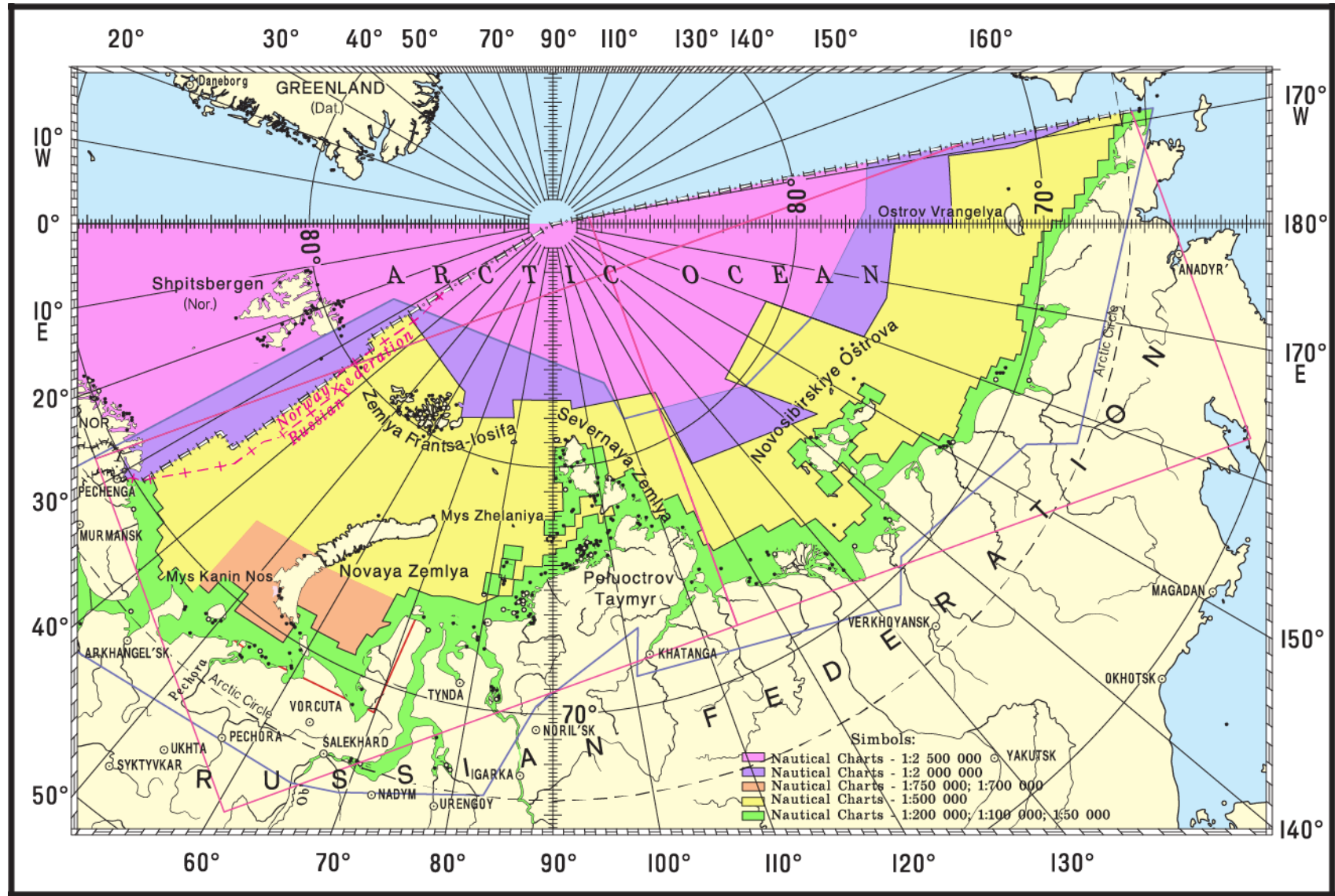


Fig. 5

The list of national paper charts published in 2014-2015

№	Admi- rality №	Name of the area	Scale	Date of new edition
1.	18431	Laptev Sea Reka Khatanga. Mys Diring to Port Khatanga.	1:10 000	2014
2.	18429	Laptev Sea Reka Khatanga and Reka Kotuy. Port Khatanga to Ostrov Pestsvyuy.	1:25 000	2014
3.	18428	Laptev Sea Reka Khatanga. Posyolok Zhdanikha to Port Khatanga.	1:25 000	2014
4.	18419	Laptev Sea Reka Khatanga. Mys Malaya Korga to Mys Samys- Tumus.	1:25 000	2014
5.	15465	Laptev Sea Reka Lena Delta. The entrance to Protoka Bykovskaya	1:50 000	2014
6.	15424	Laptev Sea Reka Khatanga and Reka Kotuy. Ostrov Bil'kanchek-Ary to Ostrov Dlinnyy.	1:50 000	2014
7.	15423	Laptev Sea Reka Khatanga. Ostrov Zelyonnyy to Ostrov Bil'kanchek-Ary.	1:50 000	2014
8.	15006	Barents Sea. Middle Bend of Kol'skiy Zaliv.	1:25 000	2014
9.	13422	Laptev Sea. Approaches to Bukhta Tiksi and Protoka Bykovskaya of Reka Lena.	1:100 000	2014
10.	13409	Laptev Sea Khatangskiy Zaliv. Mys Astronomicheskiiy to Mys Kul'cha and Bukhta Kozhevnikova.	1:100 000	2014
11.	13408	Laptev Sea Khatangskiy Zaliv. Proliv Severnyy.	1:100 000	2014
12.	13407	Laptev Sea Poluostrov Taymyr. Laguna Toyplaya to Mys Sibirskiy.	1:100 000	2014
13.	13329	Kara Sea Obskaya Guba. Mys Drovyanoy to Reka Sabkolyan'yakha.	1:100 000	2014
14.	13004	Barents Sea Murmanskiiy Bereg. Tsypnavolokskiy Lighthouse to Ostrov Kil'din and Motovskiy Zaliv.	1:100 000	2014

15.	12429	East Siberian and Chuckchi Seas. Ostrov Shalaurova to Laguna Rypil'gyn.	1:200 000	2014
16.	12411	Laptev Sea. Mys Buor-Khaya to Ostrov Yarok.	1:200 000	2014
17.	12404	Laptev Sea. Khatangskiy Zaliv with Ostrov Bol'shoy Begichev.	1:200 000	2014
18.	12312	Kara Sea. Approaches to Obskaya Guba.	1:200 000	2014
19.	12306	Barents and Kara Seas. Proliv Karskiye Vorota and Proliv Yugorskiy Shar.	1:200 000	2014
20.	12050	Barents Sea Murmanskiy Bereg. Mys Tsypnavolok to Mys Voroniy.	1:200 000	2014
21.	12000	Barents Sea. Vardyo to Mys Teriberskiy.	1:200 000	2014
22.	11129	Barents and Kara Seas. Approaches to Proliv Yugorskiy Shar and Proliv Karskiye Vorota.	1:500 000	2014
23.	11127	Kara Sea. Ostrov Belyy to Port Dikson.	1:500 000	2014
24.	19464	Chuckchi Sea Proliv Longa. Laguna Rypil'gyn entrance to Rypil'gyn Light-beacon.	1:25 000	2015
25.	18424	Laptev Sea Reka Khatanga. Ostrov Dolgan-Ary to Ostrov Zelyonnyy.	1:25 000	2015
26.	18319	Kara Sea Karskaya Guba. Approaches to Posyolok Ust'-Kara.	1:25 000	2015
27.	18037	Barents Sea Murmanskiy Bereg. Proliv Bol'shoy Oleniy. Western Part of Guba Porchnikha.	1:25 000	2015
28.	18026	Barents Sea Southeast Part. Approache to Varandeyskaya Guba.	1:25 000	2015
29.	16030	White Sea Zimniy Bereg. Kedovskiye Koshki.	1:50 000	2015
30.	15422	Laptev Sea Reka Khatanga. Ostrov Mosienko to Ostrov Zelyonnyy.	1:50 000	2015
31.	15421	Laptev Sea Reka Khatanga. Ostrov Popigay-Ary (Bezymyannyy) to Ostrov Mosienko.	1:50 000	2015
32.	15420	Laptev Sea Reka Khatanga. Mys Bol'shaya Korga to Reka Popigay.	1:50 000	2015

33.	14249	Barents Sea Zemlya Frantsa-Iosifa. Northern Part of Avstriyskiy Proliv and Proliv Beryozkina.	1:100 000	2015
34.	14247	Barents Sea Zemlya Frantsa-Iosifa. Southern Part of Avstriyskiy Proliv and approaches.	1:100 000	2015
35.	14244	Barents Sea Zemlya Frantsa-Iosifa. Proliv Markema and Proliv Yermak.	1:100 000	2015
36.	14006	White Sea Dvinskiy Zaliv. Mys Kerets to Mys Golets with Port Arkhangel'sk.	1:100 000	2015
37.	13331	Kara Sea Obskaya Guba. Bukhta Tambey to banki Vil'kitskogo (Severnyye).	1:100 000	2015
38.	13330	Kara Sea Obskaya Guba. Reka Sabkolyang''yakha to Bukhta Tambey.	1:100 000	2015
39.	12406	Laptev Sea. Mys Terpyay-Tumsa to Ostrova Dunay.	1:200 000	2015
40.	12310	Kara Sea Poluostrov Yamal. Mys Kharasavey to Reka Pilyoyakha.	1:200 000	2015
41.	11136	Kara and Laptev Seas Proliv Shokal'skogo and Proliv Borisa Vil'kitskogo.	1:500 000	2015
42.	11132	Kara Sea Poluostrov Taymyr. Port Dikson to Bukhta Lomonosov.	1:500 000	2015

Cartographic coverage in 2014-2015

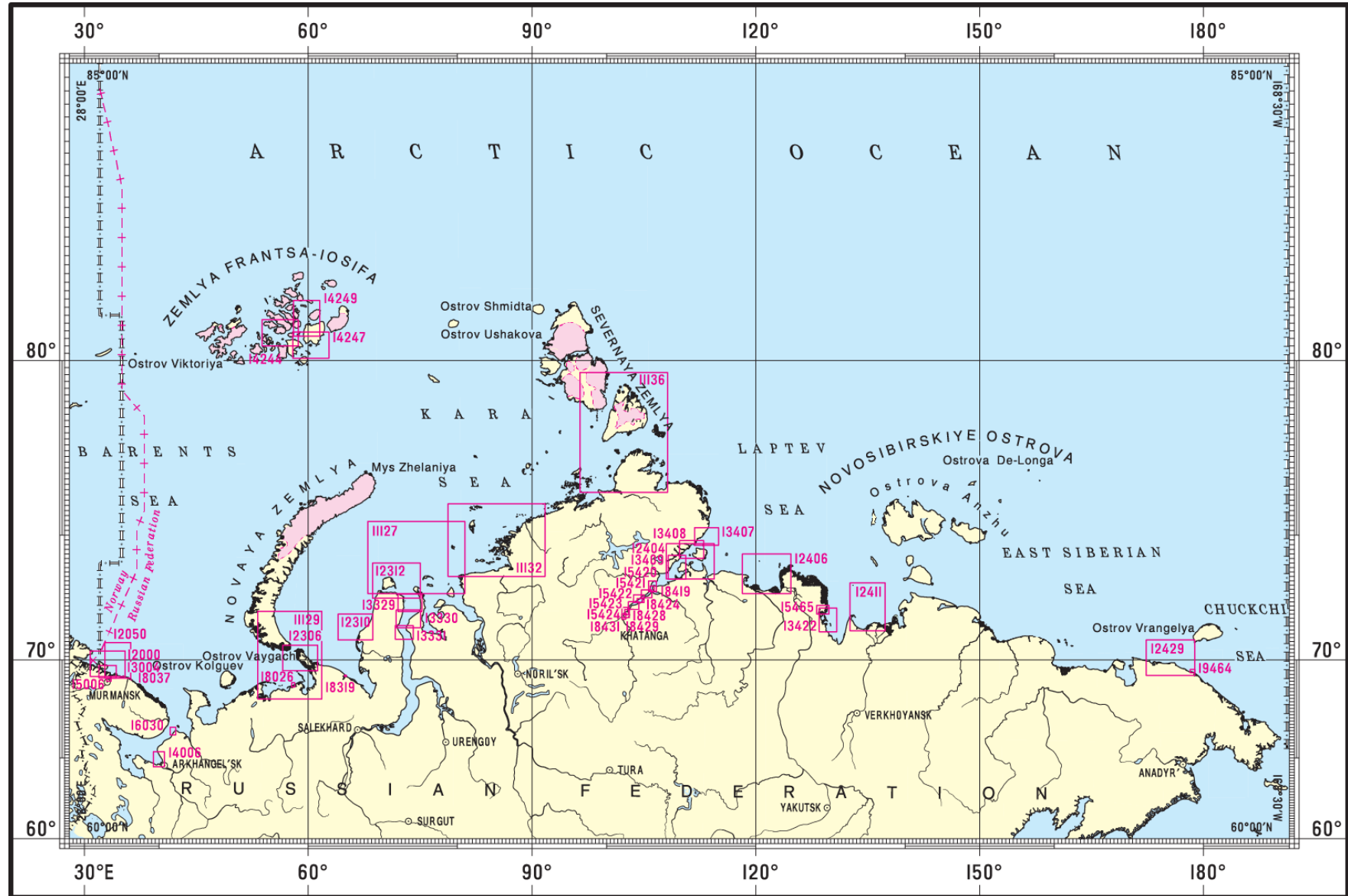


Fig. №6

3.6. Print-On-Demand Chart System.

3.7. Since 2011 charts are being circulated through the Print-On-Demand Chart System. Currently the base of Print-On-Demand Chart System contains more than 900 charts.

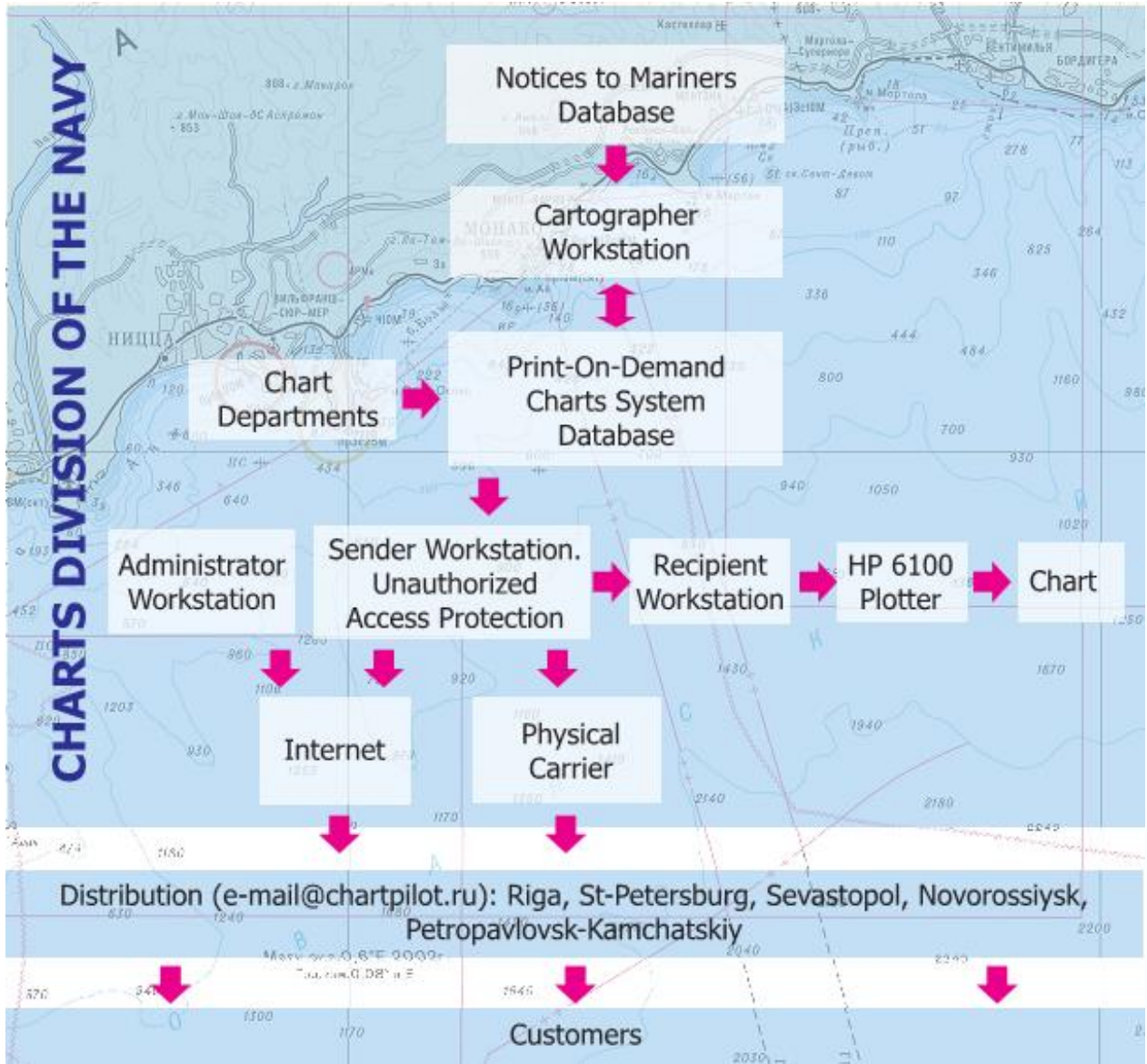


Fig. №7

4. New publications and updates.

4.1. New publications.

Table №5

№	Admiralty №	Publication name	Date of new edition	Note
1.	6003	Table of tidal levels, Volume III. Arctic, Atlantic and Indian oceans.	2015	
2.	7107	Catalog of charts and books. Arctic Ocean.	2015	
3.	2101	Lights of coast of Norway, p.1.		Are prepared for the edition
4.	2102	Lights of coast of Norway, p.2.		Are prepared for the edition
5.	2103	Lights and beacons of the Barents Sea Coast of Russia.		Are prepared for the edition

4.2. Updated publications.

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

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.

National coordinators of distribution of Maritime Safety Information (MSI) in the Arctic seas are Denmark (Greenland), Canada, Norway, Russian Federation and USA.

Transfer of MSI of national Hydrographic Offices is carried out for four regions of coastal warnings:

- the region of COASTAL WARNING (CW) Murmansk (the southern part of the Barents Sea) - a zone of responsibility of Hydrographic Office of Northern Fleet;

- the region of COASTAL WARNING (CW) Arkhangel'sk (White Sea) - a zone of responsibility of Hydrographic Office of Northern Fleet;
- the region of COASTAL WARNING (CW) the West (the southern part of the seas Kara and Laptev to the West from a meridian of 125°E) - a zone of responsibility of Federal State Unitary Enterprise (FSUE) of the Ministry of Transport of the Russian Federation;
- the region of COASTAL WARNING (CW) the East (the southern part of the Laptev Sea to the East from a meridian of 125°E, East Siberian Sea and Chuckchee Sea) - a zone of responsibility of Federal State Unitary Enterprise (FSUE) of the Ministry of Transport of the Russian Federation.

The coordinator of regions of NAVAREA XX and the XXI of WWNWS (the Arctic sector from a meridian of 30°E to a meridian of 168°W) is Federal State Unitary Enterprise of the Ministry of Transport of the Russian Federation.

Since April, 2013 Maritime Safety Information for regions of XX and XXI WWNWS is also transferred to SB the range NBDP by radio station Moscow.

Table 5

Russian NAVTEX station in the Arctic region

Murmansk	68°46'N	032°58'E	300 miles	518 kHz	K
Archangelsk	64°51'N	040°17'E	300 miles	518 kHz	L
Tiksi	71°38'N	128°50'E	300 miles	518 kHz	Q

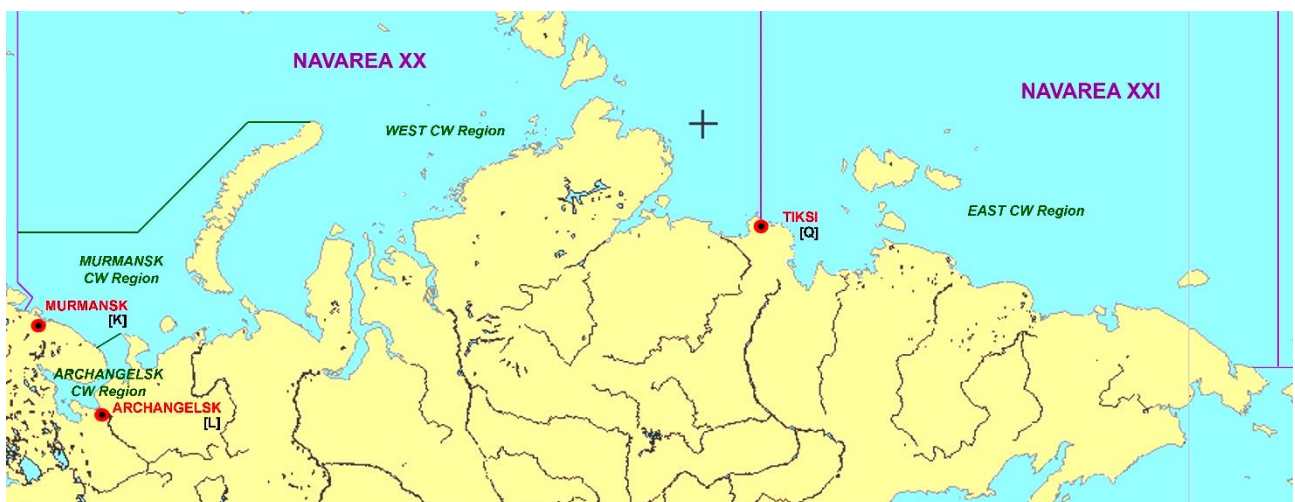


Fig. 8

Quantity of the declared coastal warnings

CW Region	2013	2014	2015
Murmansk	297	314	335
Archangel'sk	84	55	67
West	141	156	141
East	89	109	77

6. S-55.

No information to include in the report.

7. Capacity building.

No information to include in the report.

8. Oceanographic Activities.

No information to include in the report.

9. Other Activities.

9.1. Participation in the IHO working groups.

The DNO is a member and actively works in the following IHO commissions, committees, subcommittees and working groups:

ARHC, BSHC, MBSHC, HCA, IRCC, HSSC, ABLOS, WWNWS, TSMAD, CSPCWG.

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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(Notices to Mariners are available in English)

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