

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

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



**7TH CONFERENCE OF ARCTIC REGIONAL
HYDROGRAPHIC COMMISSION**

Greenland (Denmark), Ilulissat, 22-24 august, 2017

1. Hydrographic office

In accordance with the legislation of the Russian Federation matters of nautical and hydrographic services for the purpose of aiding navigation in the water areas of the national jurisdiction except the water area of the Northern Sea Route and in the high sea are carried to competence of the Ministry of Defense of the Russian Federation.

Planning, management and administration in nautical and hydrographic services for the purpose of aiding navigation in the water areas of the national jurisdiction except the water area of the Northern Sea Route and in the high sea are carried to competence of the Department of Navigation and Oceanography of the Ministry of Defense of the Russian Federation (further in the text - DNO).

The DNO is authorized by the Ministry of Defense of the Russian Federation to represent the State in civil law relations arising in the field of nautical and hydrographic services for the purpose of aiding navigation. It is in charge of the Hydrographic office of the Navy – the National Hydrographic office of the Russian Federation.

The main activities of the Hydrographic office of the Navy are the following:

- to carry out the hydrographic surveys adequate to the requirements of safe navigation in the water areas of the national jurisdiction and in the high sea;

- to prepare and issue nautical charts, sailing directions, lists of lights, tide tables and other nautical publications, satisfying the needs of safe navigation in the water areas of the national jurisdiction and in the high sea;

- to promulgate notices to mariners in order that nautical charts and publications are kept up to date;

- to provide such aids to navigation as the volume of traffic justifies and the degree of risk requires in the water areas of the national jurisdiction and in the high sea and to arrange for information relating to aids to navigation to be made available to all concerned;

- to provide the nautical charts, sailing directions and other nautical publications to Russian and foreign mariners.

The Hydrographic office of the Navy includes the Department of Navigation and Oceanography of the Ministry of Defense of the Russian Federation and the Naval Chart Division situated in Saint Petersburg and the regional hydrographic divisions for the Arctic, Pacific, Baltic Sea, Black Sea and Caspian Sea regions.

The regional hydrographic divisions include oceanographic and hydrographic survey vessels and hydrographic survey divisions carrying out hydrographic surveys and collecting and hydrographic data processing.

2. Surveys

2.1. Areas of coverage by new surveys

Table 1

The list of hydrographic coverage

Item №	Area of works	Kind of works	Date of works execution	Scale	Volume of works	
					sq. km	l. km
1	2	3	4	5	6	7
Barents Sea						
1.	Kol'skiy Zaliv: -Water Area at the Berth №2 of Public Joint-stock Company Mining and Smelting Company «Noril'skiy Nickel'» in the Murmansk; -Water Area of the Submarine Dumping Ground, situated in the vicinity Mys Chalmpushka on center reach of Kol'skiy Zaliv	Area survey and Topographic survey	2016	1:2 000 1:5 000	2.04	1.9- Topo- graphic survey
2.	Kol'skiy Zaliv: -Water Area at the Berth №2 of Public Joint-stock Company Mining and Smelting Company «Noril'skiy Nickel'» in the Murmansk; -Water Area of the Submarine Dumping Ground (area of the Mys Chalmpushka, area №15)	Area survey and Topographic survey	2016 2017	1:500 1:2000	1.84	0.6- Topo- graphic survey
Kara Sea						

3.	Obskaya Guba Region of the Remote Terminal «Vorota Arktiki»	Area survey	2016	1:10 000		415
4.	Obskaya Guba Water Area of the Channel of the Port Sabetta	Area survey	2016	1:5 000	19.1	2016
5.	Obskaya Guba Water Area of section of the deep-water route adjoining from the south to Navigation Channel, which conducts to the Port of Sabetta	Area survey	2016	1:5000	2.4	
6.	Object «Construction of Seaport around Posyolok Sabetta on the Poluostrov Yamal, including creation of the Navigation Approach Channel in Obskaya Guba» Water Area of the Approach Channel and Water Area of Port	Area survey and Topographic survey	2016	1:2000	5.2	1.5- Topo- graphic survey
White Sea						
7.	Delta of Reka Severnaya Dvina The Seaport Water Area Arkhangel'sk in the area from the railway bridge to Nizhnegorodskiy Road and in the Nikolsky horn from a buoy Kegostrovsky to a Leading Sign Verkhnekegostrovsky front	Area survey	2016	1:5 000	6.7	

The scheme of hydrographic coverage

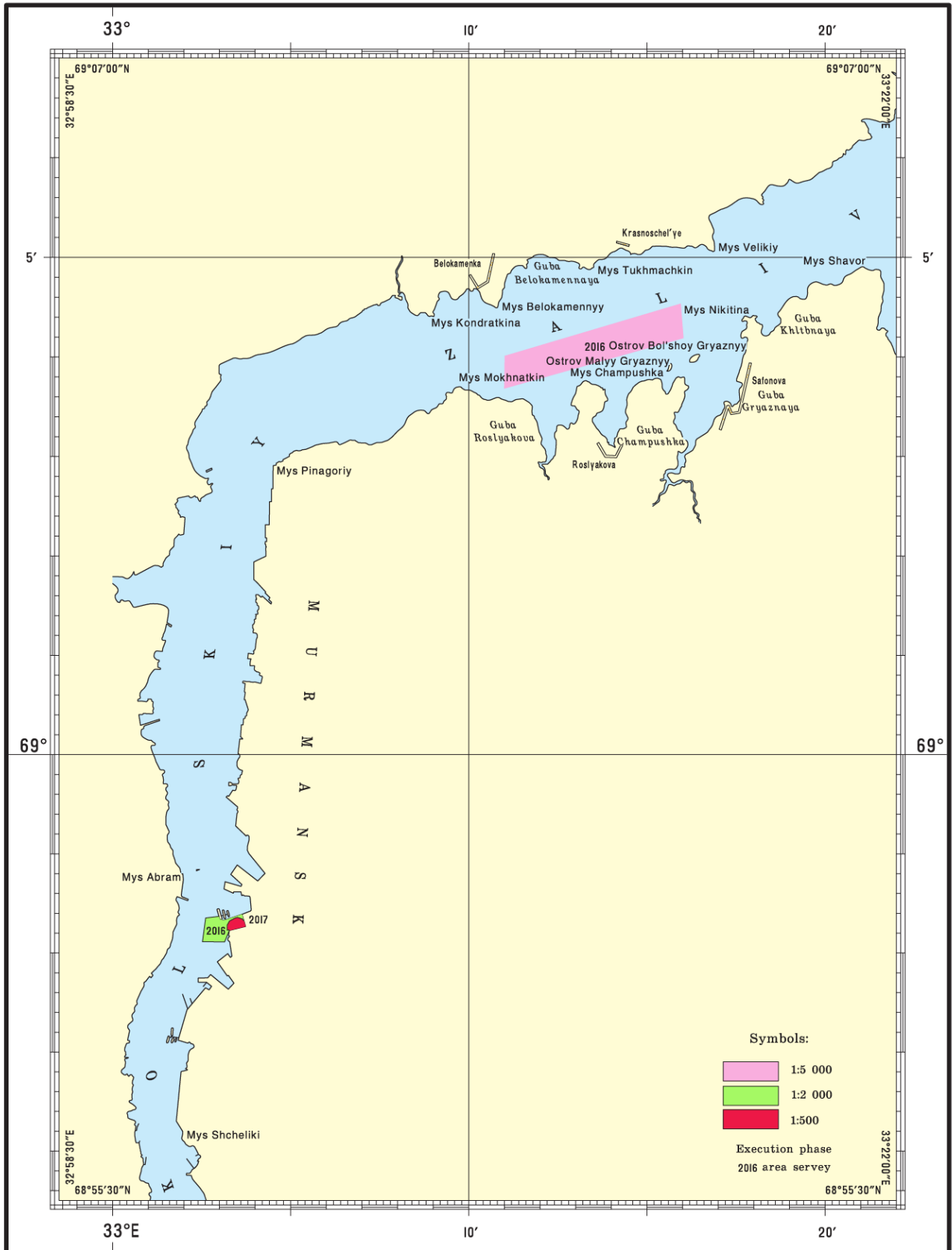


Fig. 1

The scheme of hydrographic coverage



Fig. 2

The scheme of hydrographic coverage

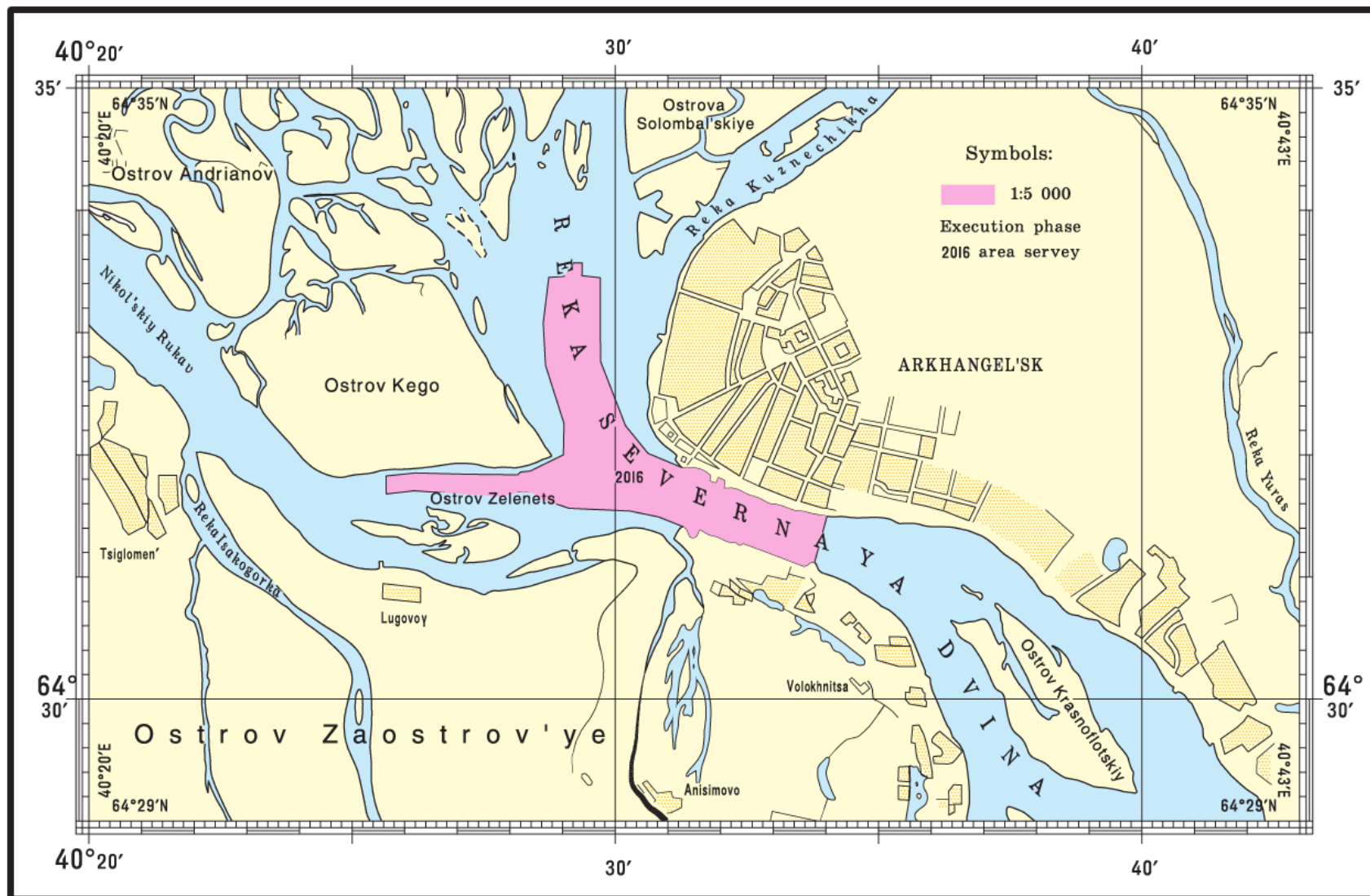


Fig. 3

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 survey vessels

In 2017 icebreakers «Il'ya Muromets», «Arctic» are entered into structure of Northern Fleet of the Russian Federation.

3. New charts and updates

3.1. Electronic navigational charts

Table 2

The list of electronic navigation charts

Item №	№ Cell	Name of the area	Scale	Date of new edition
1.	RU1PIJ00	Greenland and Barents Seas Spitsbergen	1:2 000 000	2016
2.	RU1PMMD0	Barents and Kara Seas Zemlya Frantsa-Iosifa	1:2 000 000	2016
3.	RU1PMR00	Kara and Laptev Seas Severnaya Zemlya	1:2 000 000	2016
4.	RU1OOV00	East Siberian and Laptev Seas Novosibirskiye Islands	1:2 000 000	2016
5.	RU1OOX90	East Siberian Sea De-Long Islands to Vrangeli Island	1:2 000 000	2016
6.	RU1OO0T0	Chukchi Sea Vrangeli Island to Harrison Bay	1:2 000 000	2016
7.	RU1OJJ00	Norwegian and Barents Seas	1:2 000 000	2016
8.	RU1OIMD0	Barents and Kara Seas Zemlya Frantsa-Iosifa	1:2 000 000	2016
9.	RU1OOR00	Kara and Laptev Seas Khariton Laptev Coast to Buor-Khaya Inlet	1:2 000 000	2016
10.	RU3OMM19	Barents and White Seas Obornyy Point to Madakha Lighthouse	1:180 000	2016

11.	RU3ONLN0	Barents and White Seas Murmanskiy and Terskiy Coasts 38°00'E to Lumbovskiy Gulf	1:180 000	2016
12.	RU3OPLD9	Barents Sea Murmanskiy Coast Malyy Oleniy Island to Belyy Point	1:180 000	2016
13.	RU3OPNJ9	Barents and Kara Seas Chyornaya Lopatka Point to Yarasalya Point Yugorskiy Shar Strait	1:180 000	2016
14.	RU3ORL20	Barents Sea Vor'yema Point (The border of Russia and Norway) to Kil'din Island	1:180 000	2016
15.	RU3PONJ9	Barents and Kara Seas Karskiye Vorota Strait and Approaches	1:180 000	2016
16.	RU3P30N0	Chukchi Sea Area NE of Vrangeli Island	1:180 000	2016
17.	RU3P2OB0	Kara Sea Yamal Peninsula Kharasavey Point to Toyakha River	1:180 000	2016
18.	RU3P6W90	East Siberian Sea Eastern Approaches to Dmitriy Laptev Strait	1:180 000	2016
19.	RU3P7OP0	Kara Sea Approaches to Obskaya Inlet	1:180 000	2016
20.	RU3P7VS0	East Siberian Sea Dmitriy Laptev Strait	1:180 000	2016
21.	RU3P8TO0	Laptev Sea Terpyay-Tumsa Point to Dunay Islands	1:180 000	2016
22.	RU3PASO0	Laptev Sea Khatangskiy Gulf Bol'shoy Begichev Island	1:180 000	2016
23.	RU3PHT50	Laptev Sea Taymyr Peninsula Severnnyy Island to Psov Island	1:180 000	2016
24.	RU3Q0QQ0	Kara Sea Severnaya Zemlya Frunze Point to Shmidt Island	1:180 000	2016
25.	RU4ORL59	Barents Sea Murmanskiy Coast Motovskiy Gulf	1:45 000	2016
26.	RU4ORL99	Barents Sea Murmanskiy Coast Approaches to Kol'skiy and Motovskiy Gulfs and Kil'din Island	1:45 000	2016
27.	RU4P3P70	Kara Sea Obskaya Inlet Approaches to Khonarasalya Point	1:45 000	2016
28.	RU4P1P70	Kara Sea Obskaya Inlet Paruyyakha River to Belyy Point	1:45 000	2016

29.	RU4POP70	Kara Sea Obskaya Inlet Nyudyakosalya Point to Labtasalya Point	1:45 000	2016
30.	RU4OSP70	Kara Sea Obskaya Inlet Lyadkheyyakha River to Yuribeytoyakha River	1:45 000	2016
31.	RU4ORP70	Kara Sea Obskaya Inlet Munga River to Sinovayakha River	1:45 000	2016
32.	RU4OQP70	Kara Sea Obskaya Inlet Topsalya Point to Yaviyakha River	1:45 000	2016
33.	RU4OPP70	Kara Sea Obskaya Inlet Lymbad'yakha River to Snegovoy Yar Bluff	1:45 000	2016
34.	RU5PHVL0	Laptevyykh Sea Novosibirskiye Islands Kotelnyy Island Temp Bay and Approaches	1:22 000	2016
35.	RU5OQP91	Kara Sea Obskaya Inlet Nurmayakha River Mouth	1:8 000	2016
36.	RU5OSP70	Kara Sea Obskaya Inlet Yaptiksalya Bay	1:4 000	2016
37.	RU2PGK70	Barents Sea 75°30'N to 79°00'N: 37°00'E to 44°30'E	1:700 000	2017
38.	RU2PRM80	Barents Sea Zemlya Frantsa-Iosifa Zemlya Aleksandry Island to Nortbruk Island	1:700 000	2017
39.	RU2PSN60	Barents Sea Zemlya Frantsa-Iosifa Guker Island to Belaya Zemlya Islands	1:700 000	2017
40.	RU2PNOL0	Kara Sea 77°50'N 67°00'E to 81°45'N 74°00'E	1:700 000	2017
41.	RU2PNPC0	Kara Sea Northern Part Vize and Ushakov Islands	1:700 000	2017
42.	RU2PNQ30	Kara Sea 77°50'N 81°00'E to 81°45'N 88°00'E	1:700 000	2017
43.	RU2PNQO0	Kara Sea Severnaya Zemlya Shmidt Island to Voronin Island	1:700 000	2017
44.	RU2PNRI0	Kara and Laptev Seas Severnaya Zemlya Komsomolets Island to	1:700 000	2017

		Malyy Taymyr Island		
45.	RU2PNSO0	Laptev Sea 77°50'N 108°E to 81°45'N 120°E	1:700 000	2017
46.	RU2PDMD0	Barents Sea 74°30'N to 79°00'N: 44°30'E to 52°00'E	1:700 000	2017
47.	RU2PDN60	Barents Sea Novaya Zemlya Area N of Admiralteystva Peninsula	1:700 000	2017
48.	RU2PDNR0	Barents and Kara Seas N Part of Novaya Zemlya	1:700 000	2017
49.	RU2OOKI0	Barents Sea Varangerfjorden to Kanin Peninsula	1:700 000	2017
50.	RU2OBL60	Beloe Sea	1:700 000	2017
51.	RU2OKMD0	Barents Sea Kanin Peninsula to Gusinaya Zemlya Peninsula	1:700 000	2017
52.	RU2OKN60	Barents and Kara Seas Timanskiy Coast to Novaya Zemlya and Karskiye Vorota Strait	1:700 000	2017
53.	RU2OONR0	Barents and Kara Seas Vaygach Island to Yamal Peninsula	1:700 000	2017
54.	RU2P3OL0	Barents and Kara Seas Yamal Peninsula to Novaya Zemlya	1:700 000	2017
55.	RU2P3PC0	Kara Sea N Area from Gydanskiy Peninsula	1:700 000	2017
56.	RU2P3Q30	Kara Sea Petra Chichagova Coast to Uyedineniya Island	1:700 000	2017
57.	RU2P8Q00	Kara Sea Khariton Laptev Coast to Sergey Kirov Islands	1:700 000	2017
58.	RU2P8RI0	Kara and Laptev Seas Russkiy Island to Faddey Islands	1:700 000	2017
59.	RU2P8SO0	Laptev Sea Faddey Islands to Olenyokskiy Gulf	1:700 000	2017

60.	RU2P0U00	Laptev Sea Approaches to Deltas of Rivers Olenyok and Lena	1:700 000	2017
61.	RU2P0UR0	Laptev Sea Buor-Khaya Inlet to Kotel'nyy Island	1:700 000	2017
62.	RU2P0VO0	Laptev and East Siberian Seas Yanskiy Gulf to Kotel'nyy Island	1:700 000	2017
63.	RU2P0WF0	East Siberian Sea Merkushina Strelka Peninsula to Bennett Island	1:700 000	2017
64.	RU2P0X60	East Siberian Sea Indigirskiy Gulf to De-Long Islands	1:700 000	2017
65.	RU2OPXR0	East Siberian Sea Kolyma River Delta to 76°00'N 166°00'E	1:700 000	2017
66.	RU2OPYI0	East Siberian Sea Chaunskaya Inlet to 76°00'N	1:700 000	2017
67.	RU2OQZ90	East Siberian Sea Aachim Peninsula to Vrangeli Island	1:700 000	2017
68.	RU2OQ009	Chukchi Sea Eastern Part of Vrangeli Island	1:700 000	2017
69.	RU2OQ091	Chukchi Sea Coast of USA 75°00'N to 68°50'N 173°00'W to 168°58'37"W	1:700 000	2017
70.	RU2O9091	Chukchi Sea and Bering Sea Chukotskiy Peninsula Senyavin Strait to Netten Point	1:700 000	2017
71.	RU2O9Z90	Tihiy Ocean Bering Sea Anadyrskiy Gulf Western Part	1:700 000	2017
72.	RU3P3V70	Laptev Sea Yanskiy Gulf Buor-Khaya Point to Yarok Island	1: 180 000	2017
73.	RU4P5P90	Kara Sea Obskaya Inlet Approaches to Shtormovoy Point	1: 45 000	2017
74.	RU4Q2MM0	Barents Sea Zemlya Frantsa-Iosifa Zemlya Aleksandry Island Zverboev Bay	1: 22 000	2017

75.	RU4Q2ML0	Barents Sea Zemlya Frantsa-Iosifa Zemlya Aleksandry Island Dezhnyov Gulf	1: 22 000	2017
76.	RU4OQNN0	Barents Sea SE Part Approaches to Varandeyeskaya Inlet	1: 22 000	2017

The scheme of electronic navigational charts

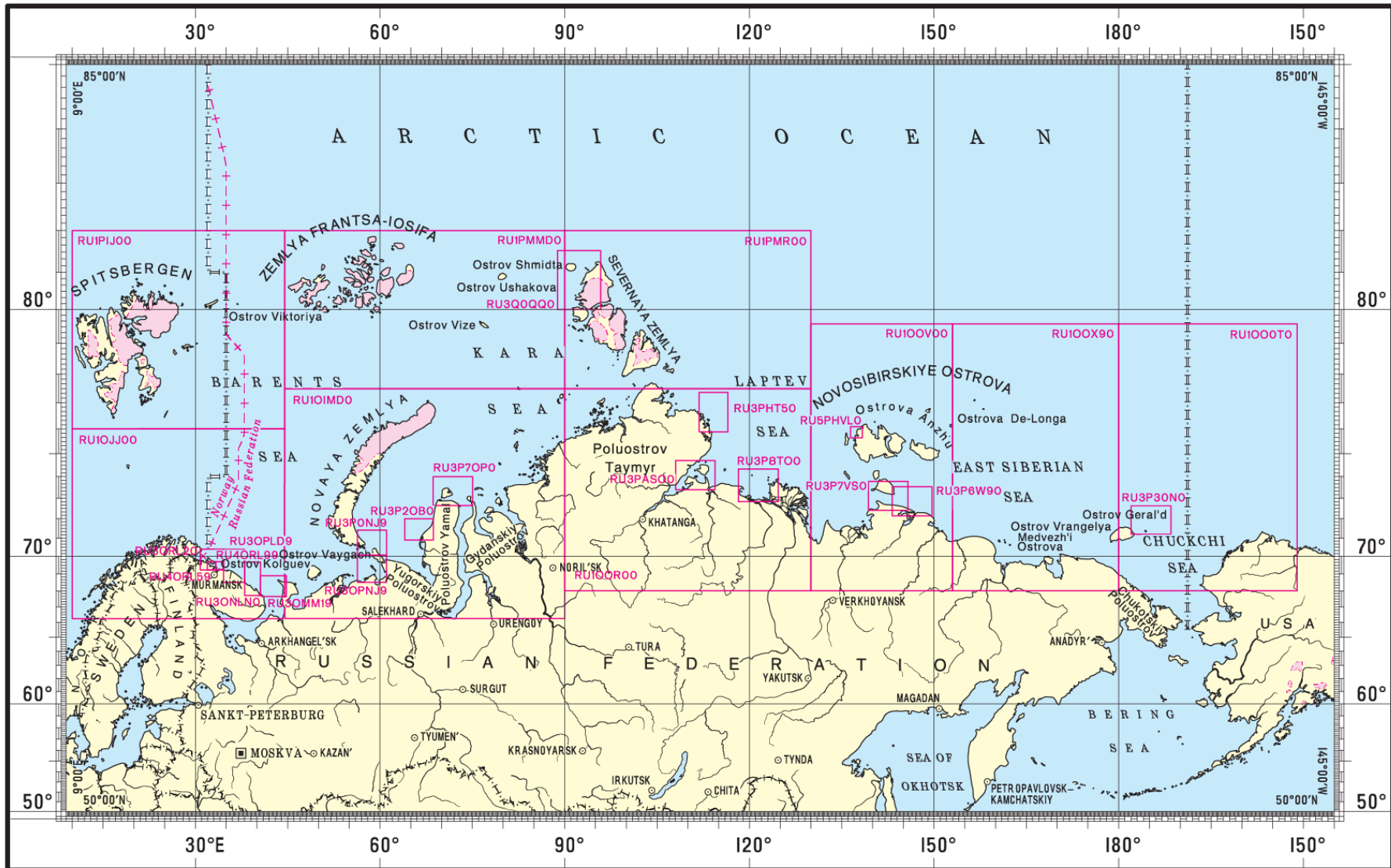


Fig. 4

The scheme of electronic navigational charts

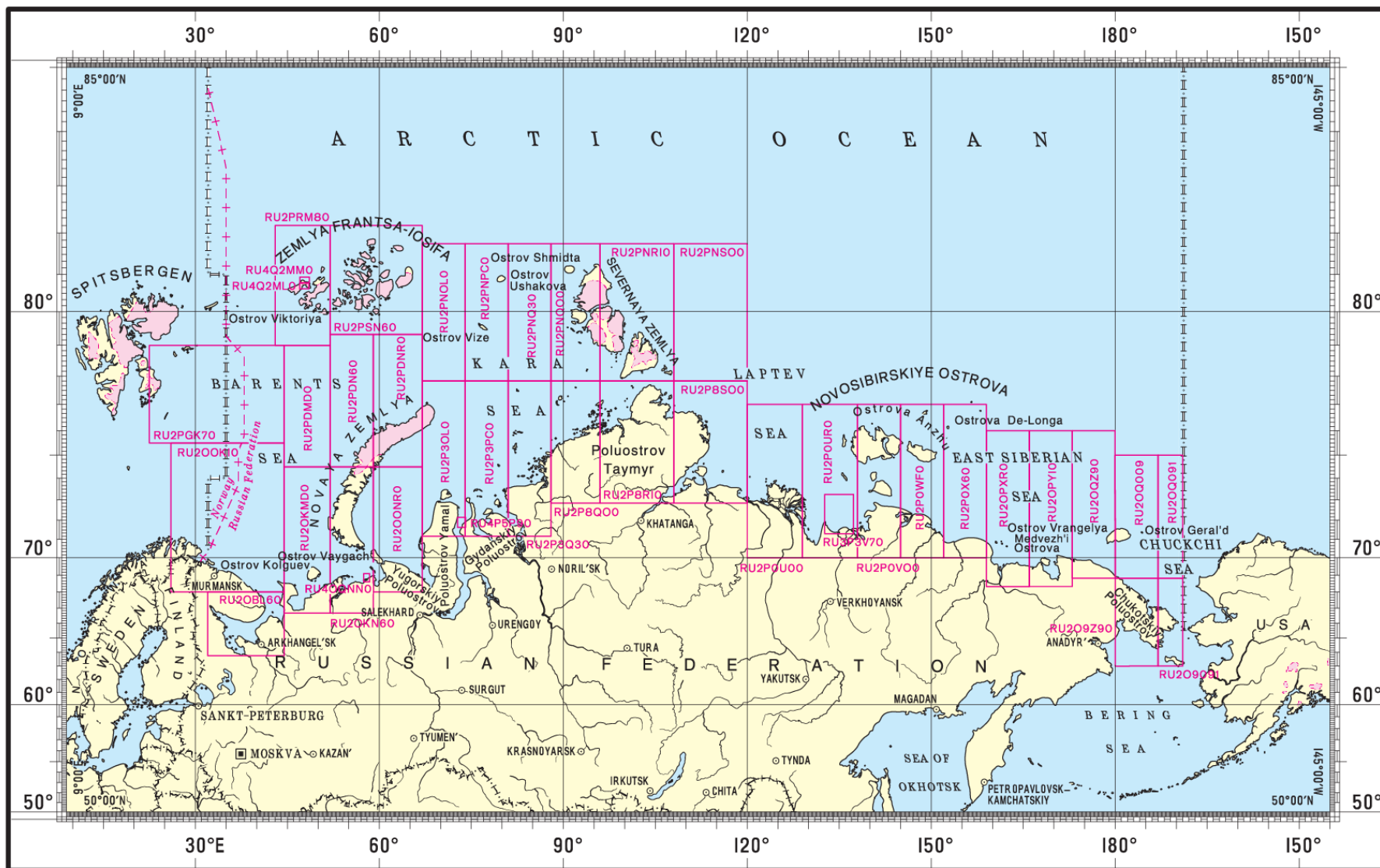


Fig. 5

The scheme of electronic navigational charts

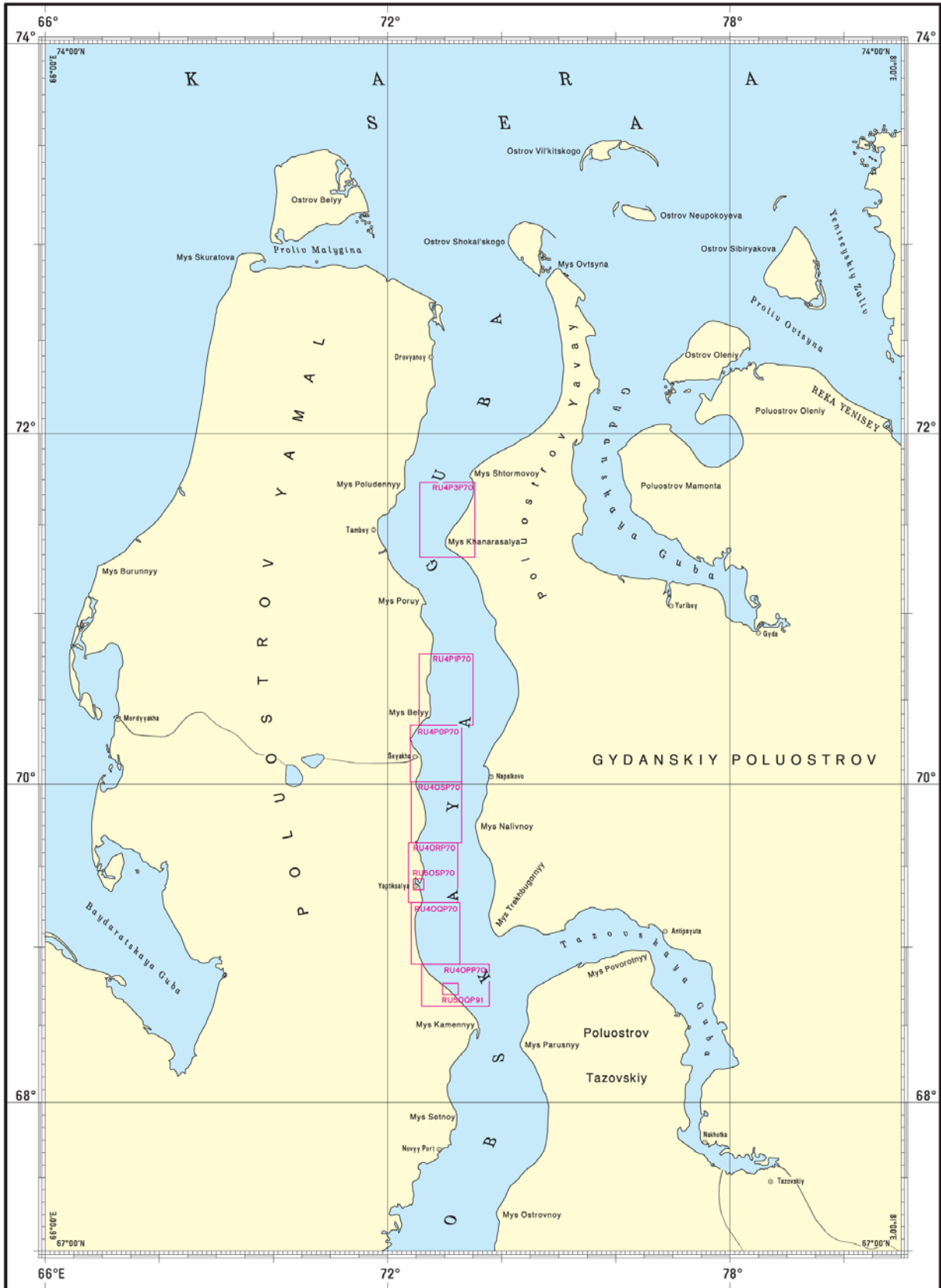


Fig. 6

3.2. Method of distribution of electronic navigational charts (ENCs)

The ENCs are distributed through the official distributor of cartographic products of the National Hydrographic Service of the Russian Federation.

3.3. Raster navigational charts (RNCs)

The DNO does not distribute RNCs.

3.4. International charts (INT)

Charts with a letter of «INT» at the moment are not published.

3.5. National paper charts

DNO is published the collection consisting of 37 national paper charts on water area of the Arctic Ocean. 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 Ministry of Defense of the Russian Federation:

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

Table 3

Масштаб	Национальные карты
1:2 500 000	1
1:2 000 000	3
1:750 000	1
1:700 000	1
1:200 000	12
1:100 000	4
1:50 000	6
1:25 000	6
1:10 000	2
1:5 000	1
Σ	37

Table 4

The list of the national navigation paper charts

Item №	Adm. №	Name of the area	Scale	Date of new edition
1.	10100	Arctic Ocean Barents Sea Southern Part	1:2 000 000	2016
2.	10101	Arctic Ocean Barents Sea Northern Part	1:2 000 000	2016
3.	10106	Chuckchi Sea and Bering Strait	1:2 000 000	2016
4.	11164	Barents and Kara Sea Proliv Karskiye Vorota to Ostrov Belyy	1:750 000	2016
5.	12213	Barents Sea Zemlya Frantsa-Iosifa Ostrov Rudol'fa to Ostrov Greem-Bell	1:200 000	2016
6.	12214	Barents Sea Zemlya Frantsa-Iosifa Ostrov Artura to Ostrov Rudol'fa	1:200 000	2016
7.	12305	Kara Sea Proliv Karskiye Vorota and Approaches	1:200 000	2016
8.	12335	Laptev Sea Severnaya Zemlya Vostochnyy Bereg Ostrov Bol'shevik	1:200 000	2016
9.	12337	Kara Sea Severnaya Zemlya Ostrov Pioner to Mys Arcticheskiy	1:200 000	2016
10.	12402	Laptev Sea Poluoostrov Taymyr Ostrov Severnyy to Ostrov Psov	1:200 000	2016
11.	12421	East Siberian Sea Proliv Dmitriya Lapteva	1:200 000	2016
12.	12422	East Siberian Sea Eastern Approaches to Proliv Dmitriya Lapteva	1:200 000	2016
13.	12438	Chuckchi Sea Area to Northeast from Ostrov Vrangelya	1:200 000	2016
14.	13215	Barents Sea Novaya Zemlya Mys Medvezhiy to Mys Zhelaniya	1:100 000	2016
15.	13332	Kara Sea Obskaya Guba Banki Vil'kitskogo (Severnyye) to Yantosyo Light-Beacon	1:100 000	2016
16.	13333	Kara Sea Obskaya Guba Light-Beacon Tadebyayakha to Mys Lebedinyy	1:100 000	2016
17.	13334	Kara Sea Obskaya Guba Mys Lebedinyy to Mys Tryokhbugornyy	1:100 000	2016

18.	15004	Barents Sea Murmanskiy Bereg Kol'skiy Zaliv	1:50 000	2016
19.	15355	Kara Sea Obskaya Guba Mys Poludennyi to Mys Shtormovoy	1:50 000	2016
20.	15356	Kara Sea Obskaya Guba Reka Takladayakha to Reka Khuryokhoyakha	1:50 000	2016
21.	18331	Kara Sea Obskaya Guba Port Sabetta	1:5 000	2016
22.	18338	Kara Sea Obskaya Guba North Part of Port Sabetta Maritime Canal	1:25 000	2016
23.	18339	Kara Sea Obskaya Guba Port Sabetta Maritime Canal 72°27'N to 72°18'N	1:25 000	2016
24.	18340	Kara Sea Obskaya Guba Port Sabetta Seaway Canal 72°18'30"N to 72°10'12"N	1:25 000	2016
25.	18383	Kara Sea Yeniseyskiy Zaliv Approaches to Polar Station Sopoch'naya Karga	1:25 000	2016
26.	19046	White Sea Kandalakshskiy Zaliv Kandalakshskiy Approach Channel	1:10 000	2016
27.	91115	Central Arctic Basin	1:2 500 000	2017
28.	11163	Barents Sea Novaya Zemlya Ostrov Mezhdusharskiy to Poluostrov Admiralteystva	1:700 000	2017
29.	12321	Kara Sea Poluostrov Yavay to Ostrov Dikson	1:200 000	2017
30.	12430	East Siberian and Chukchi Seas Ostrov Vrangelya	1:200 000	2017
31.	12433	Chukchi Sea Chukotskiy Poluostrov Mys Dzhenretlen to Mys Dezhnyova	1:200 000	2017
32.	15341	Kara Sea Obskaya Guba Reka Ser'yakha to Mys Belyy	1:50 000	2017
33.	15344	Kara Sea Obskaya Guba Mys Kotel'nyy to Mys Povorotnyy	1:50 000	2017
34.	15354	Kara Sea Obskaya Guba Reka Parod'yakha to Mys Khonarasalya	1:50 000	2017
35.	17014	Barents Sea Poluostrov Rybachiy Bukhta Tsypnavolok and Guba Lush and Guba Bol'shaya Korobel'naya	1:10 000	2017
36.	18332	Kara Sea Obskaya Guba Approaches to Port Sabetta	1:25 000	2017

37.	19240	Barents Sea Zemlya Frantsa-Iosifa Ostrov Zemlya Aleksandry Zaliv Dezhnyova and Bukhta Zverboev	1:25 000	2017
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The scheme of the national navigation paper charts

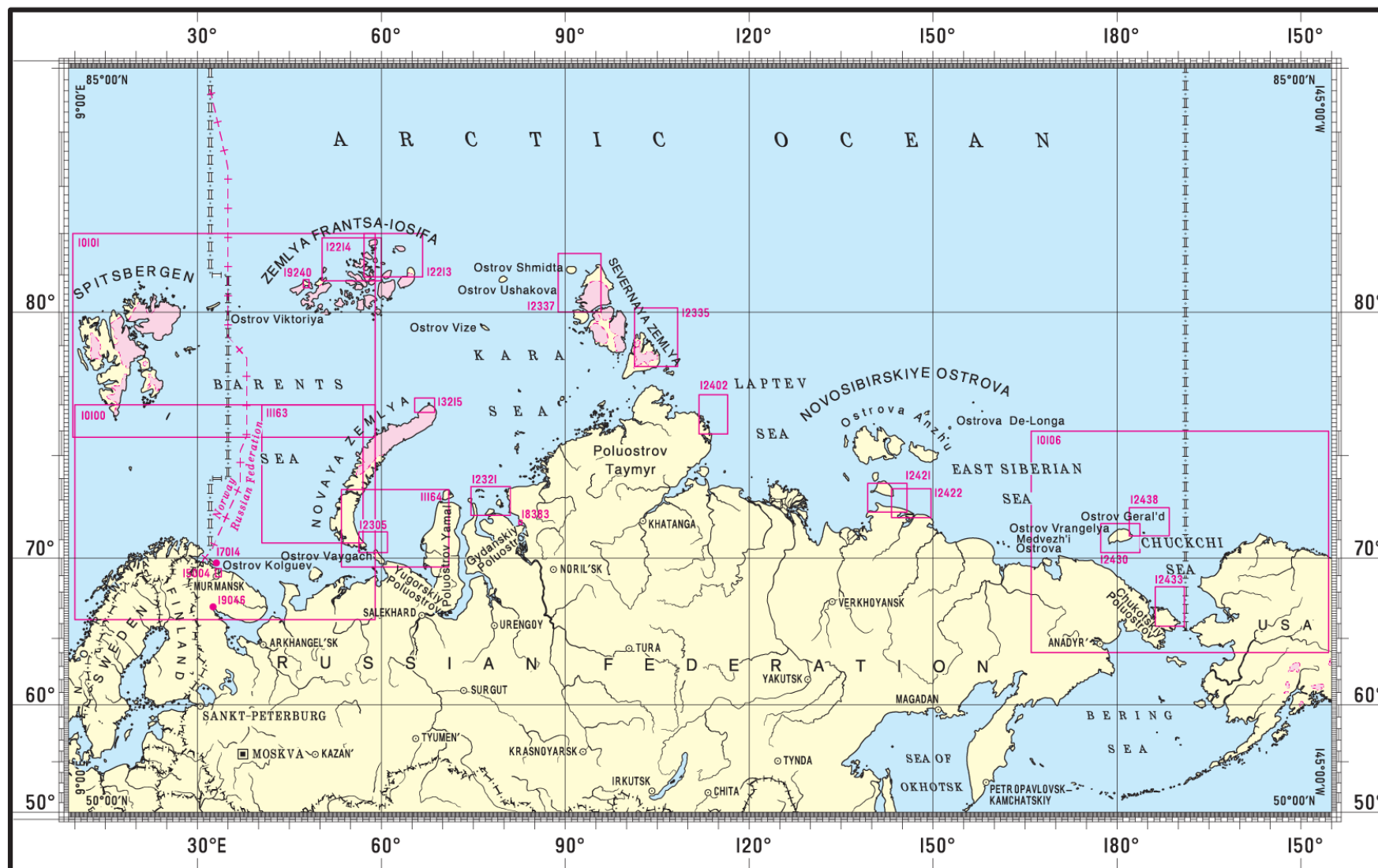


Fig. 7

The scheme of the national navigation paper charts

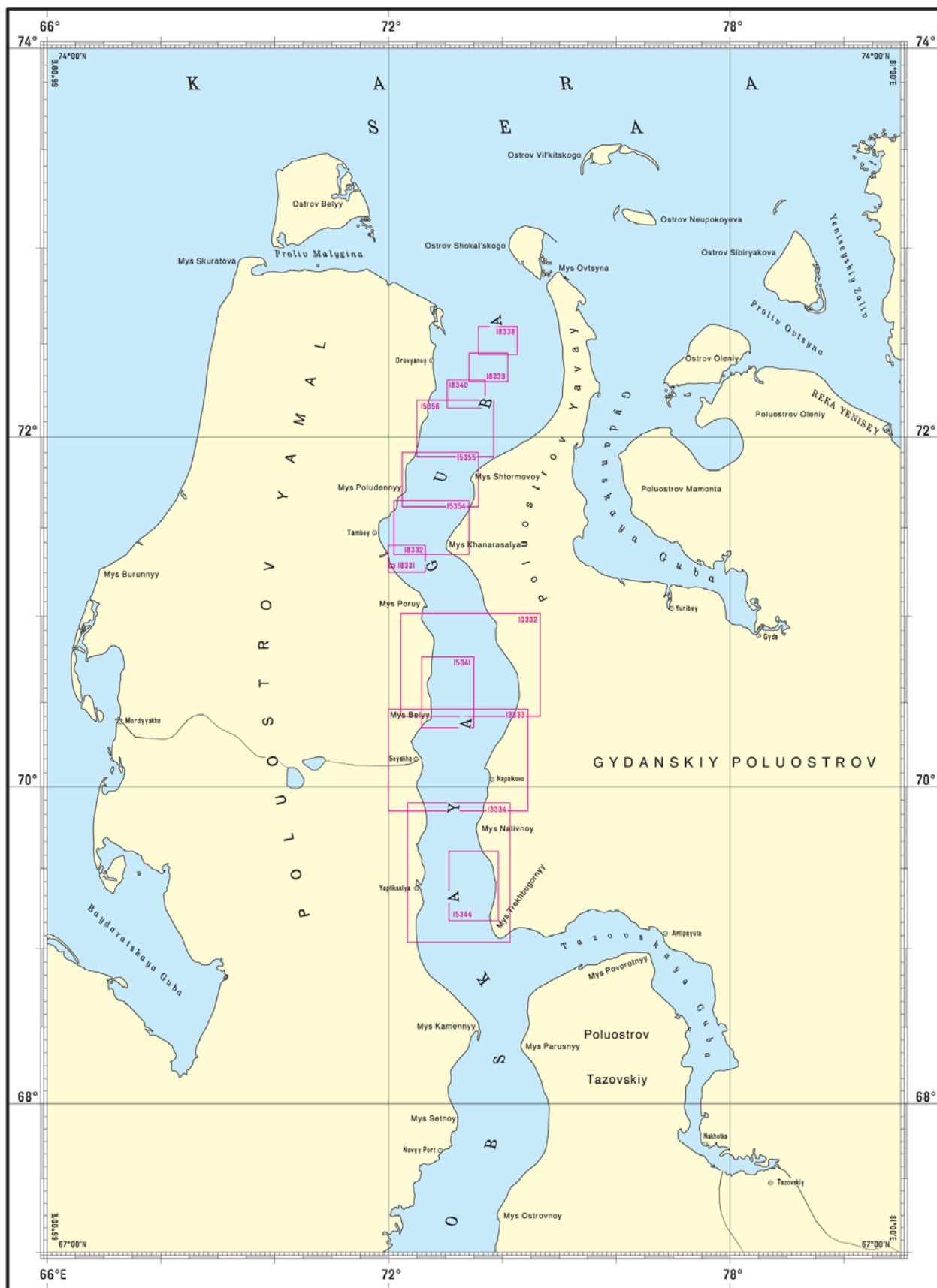


Fig. 8

The scheme of the national paper chart №91115

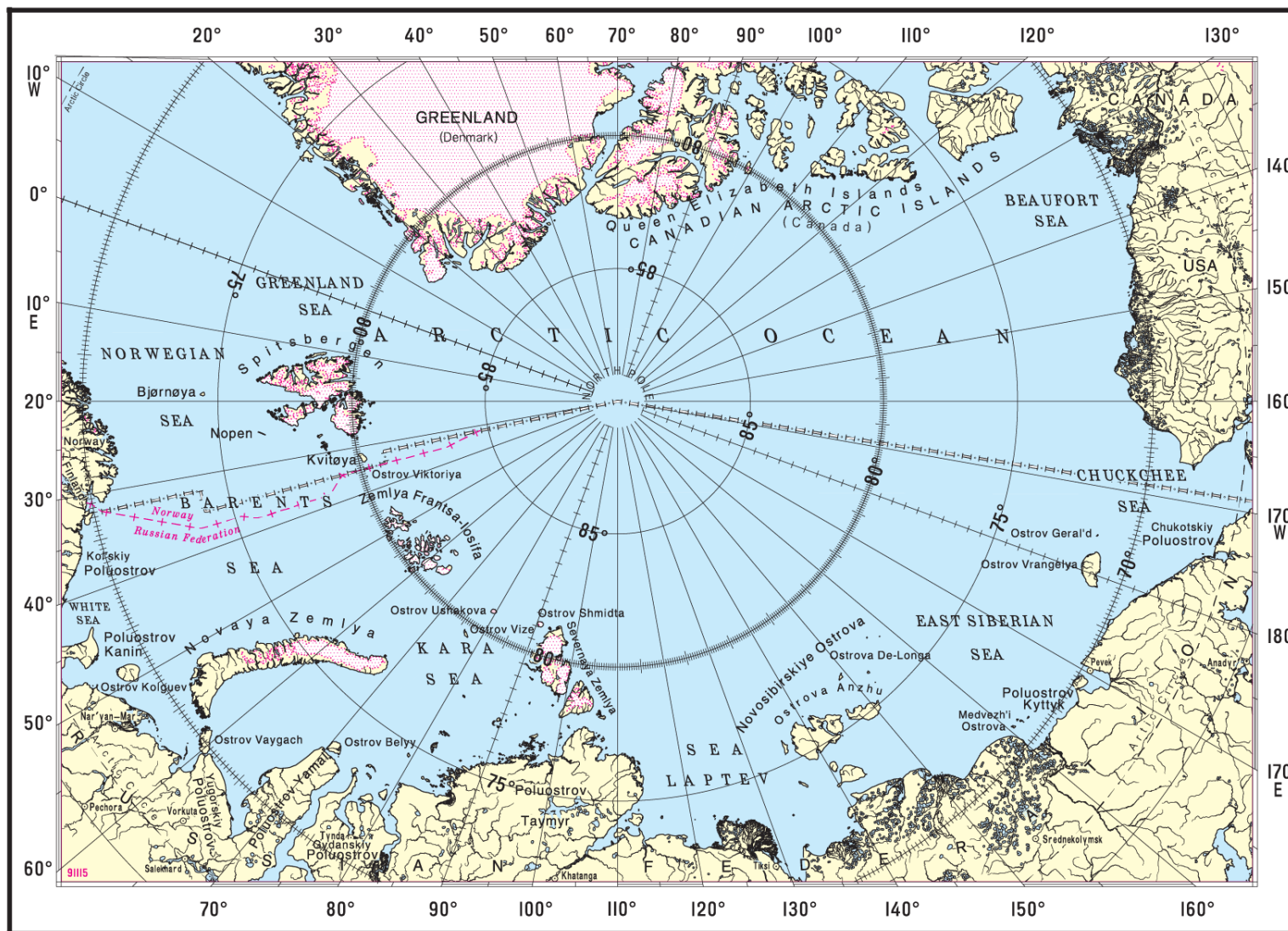


Fig. 9

3.6. System of the printing the charts on-demand

Beginning from 2011, the paper nautical charts are being published Print-on-demand charts system. The present day database of Print-on-demand nautical charts contains more than 3654 charts.

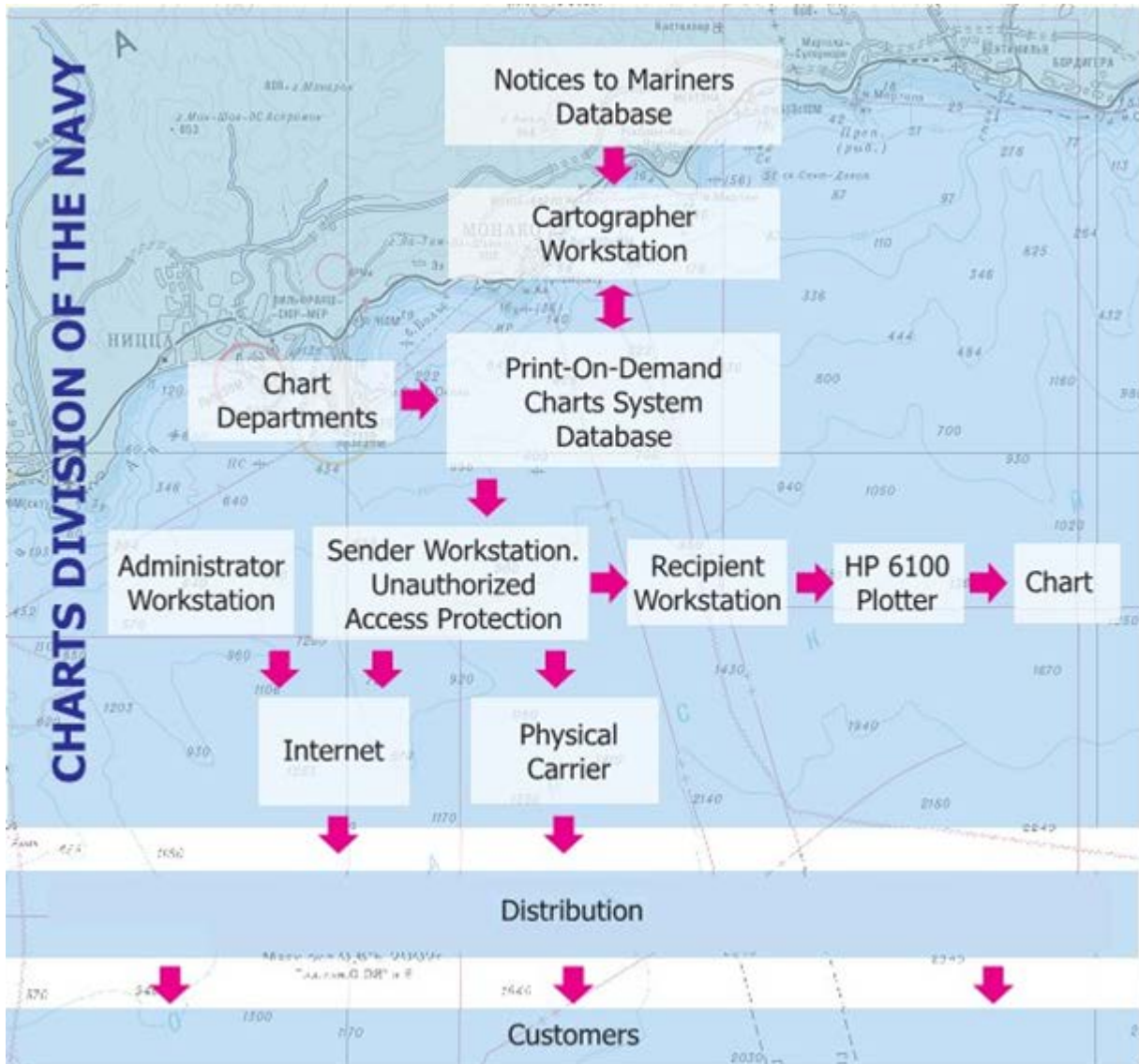


Fig. 10

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 through the DNO 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

Hydrographic service Navy of the Russian Federation and Federal State Unitary Enterprise «Hydrographic Department» of the Ministry of Transport of the Russian Federation are the Russian national coordinators responsible for distribution of navigation information in coastal waters of the Russian Federation.

Distribution of navigational warnings in the Arctic region is carried out by Hydrographic service of Northern Fleet on the following regions:

region of Coastal Warning Murmansk (southern part of the Barents Sea);

region of Coastal Warning Archangelsk (White Sea);

region of Coastal Warning West (south part of the Seas of Kara and Laptev to the west from a meridian of 125°E);

region of Coastal Warning East (south part of the Laptev Sea to the east from a meridian of 125°E, the east Siberian and Chukchi Seas).

The coordinator of regions of NAVAREA XX and the XXI of World Wide Navigational Warning Service (WWNWS) (the Arctic sector from a meridian of 30°E to a meridian 168°58'W) is Federal State Unitary Enterprise «Rosmorport» of the Ministry of Transport of the Russian Federation.

Maritime Safety Information on regions of NAVAREA is transferred in Safety Net networks twice per day:

on the region of the XX (WWNWS) at 0530 and 1730 UTC via the INMARSAT IOR satellite;

on the region of the XXI WNWNS) at 0530 and 1730 UTC via the INMARSAT IOR satellite;

and also in SB the range (NBDP) on both areas «Moscow» radio station on a frequency of 12599.5 kHz and 8431.5 kHz.

Table 5

Quantity of the announced Coastal Warnings

Region	2014г.	2015г.	2016г.
CW Murmansk	314	410	387
CW Arkhangelsk	55	98	65
CW West	156	172	128
CW East	109	15	99

Table 6

Russian NAVTEX station in the Arctic region

Murmansk	68°46'N	32°58'E	300 miles	518 kHz	K
Arkhangelsk	64°51'N	40°17'E	300 miles	518 kHz	L
Tiksi	71°38'N	128°50'E	300 miles	518 kHz	Q

The region of the announcement Coastal Warnings and NAVTEX stations

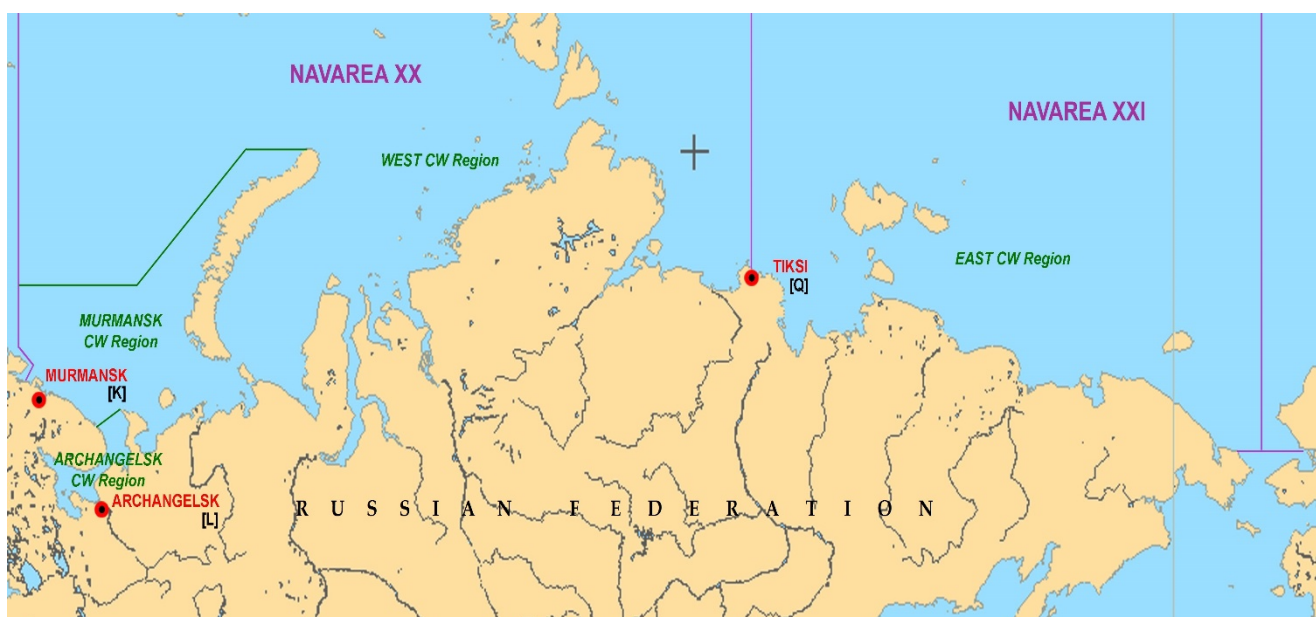


Fig. 11

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.

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

No information to include in the report.

10. Conclusion

The present report reflects the activities of the National Hydrographic office of the Russian Federation during the period since the last meeting of the commission.

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fax: +7 812 323 70 29

e-mail: unio@mil.ru

unio_navareal3@mil.ru

website: <http://structure.mil.ru/structure/forces/hydrographic/about.htm>

(NtMs are available in English)

address: 8, 11th liniya, St.-Petersburg, 199034, Russia