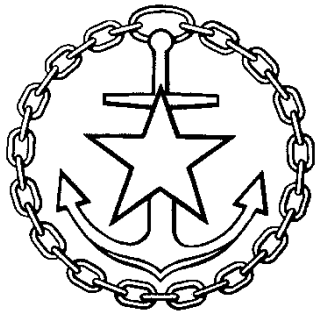
ARHC3-2d

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

NATIONAL REPORT

OF THE RUSSIAN FEDERATION



3-rd MEETING of ARCTIC REGIONAL HYDROGRAPHIC COMISSION

Norway, Tromsø, 9-11 October 2012

The present report reflects activity results of the Hydrographic Office of the Russian Federation since the last submission of the national report at the 2-nd meeting of ARHC, September, 2011, Copenhagen.

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

For period since the last meeting of the Commission, new data has not been received.

2.2.1. New Technologies and/or Equipment

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

2.2.2. 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

Shown schematically on Fig.1.

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.

3.3. Raster Navigational Charts (RNCs)

DNO of the RF MD does not distribute RNCs.

3.4. International Charts.

INT charts at the moment are not produced.

3.5. National Paper Charts.

DNO of the RF MD issued 981 nautical charts on Arctic waters under jurisdiction of Russia. Scale row is shown in table 1. The collection is maintained up-to-date using correction and re-publishing of charts as new hydrographic data become available.

Table 1

1:2 500 000	1
1:2 000 000	7
1:500 000	42
1:200 000	110
1:100 000	212
Larger than 1:100 000	719

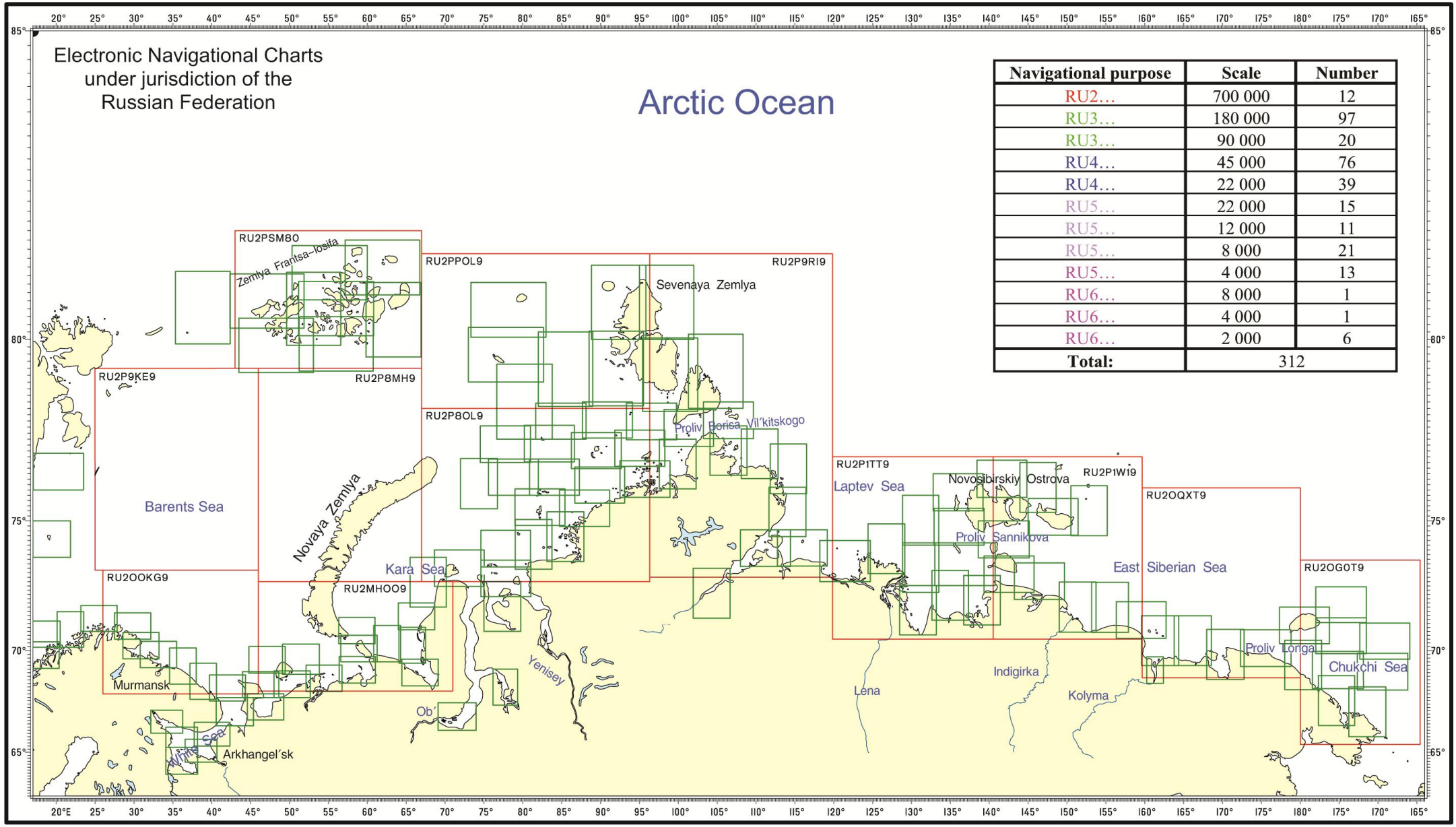

Electronic Navigational Charts
under jurisdiction of the
Russian Federation
Arctic Ocean
Navigational purpose | Scale | Number
RU2… | 700 000 | 12
RU3… | 180 000 | 97
RU3… | 90 000 | 20
RU4… | 45 000 | 76
RU4… | 22 000 | 39
RU5… | 22 000 | 15
RU5… | 12 000 | 11
RU5… | 8 000 | 21
RU5… | 4 000 | 13
RU6… | 8 000 | 1
RU6… | 4 000 | 1
RU6… | 2 000 | 6
Total: | 312
RU2PSM8O
RU2PPOL9
RU2P9RI9
RU2P9KE9
RU2P8MH9
RU2P8OL9
RU2P1TT9
RU2P1WI9
RU2OQXT9
RU2OOKG9
RU2MHOO9
RU2OG0T9
Zemlya Frantsa-Iosifa
Sevenaya Zemlya
Proliv Borisa Vil'kitskogo
Barents Sea
Novaya Zemlya
Kara Sea
Laptev Sea
Novosibirskiy Ostrova
Proliv Sannikova
East Siberian Sea
Proliv Longa
Chukchi Sea
Murmansk
White Sea
Arkhangel'sk
Ob'
Yenisey
Lena
Indigirka
Kolyma
20°
25°
30°
35°
40°
45°
50°
55°
60°
65°
70°
75°
80°
85°
90°
95°
100°
105°
110°
115°
120°
125°
130°
135°
140°
145°
150°
155°
160°
165°
170°
175°
180°
85°
80°
75°
70°
65°

Fig. 1

3.6 Printing System of On-demand Charts

In 2007, printing complex of on-demand charts was developed in Russia. The objectives which are pursued by its development include saving with reproduction of nautical charts by polygraphic method and efficient supply of consumers with up-to-date cartographic products.

Test operation of printing system of on- demand charts was launched in 2010 (NtM No. 28 of 2010). 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 500 nautical charts.

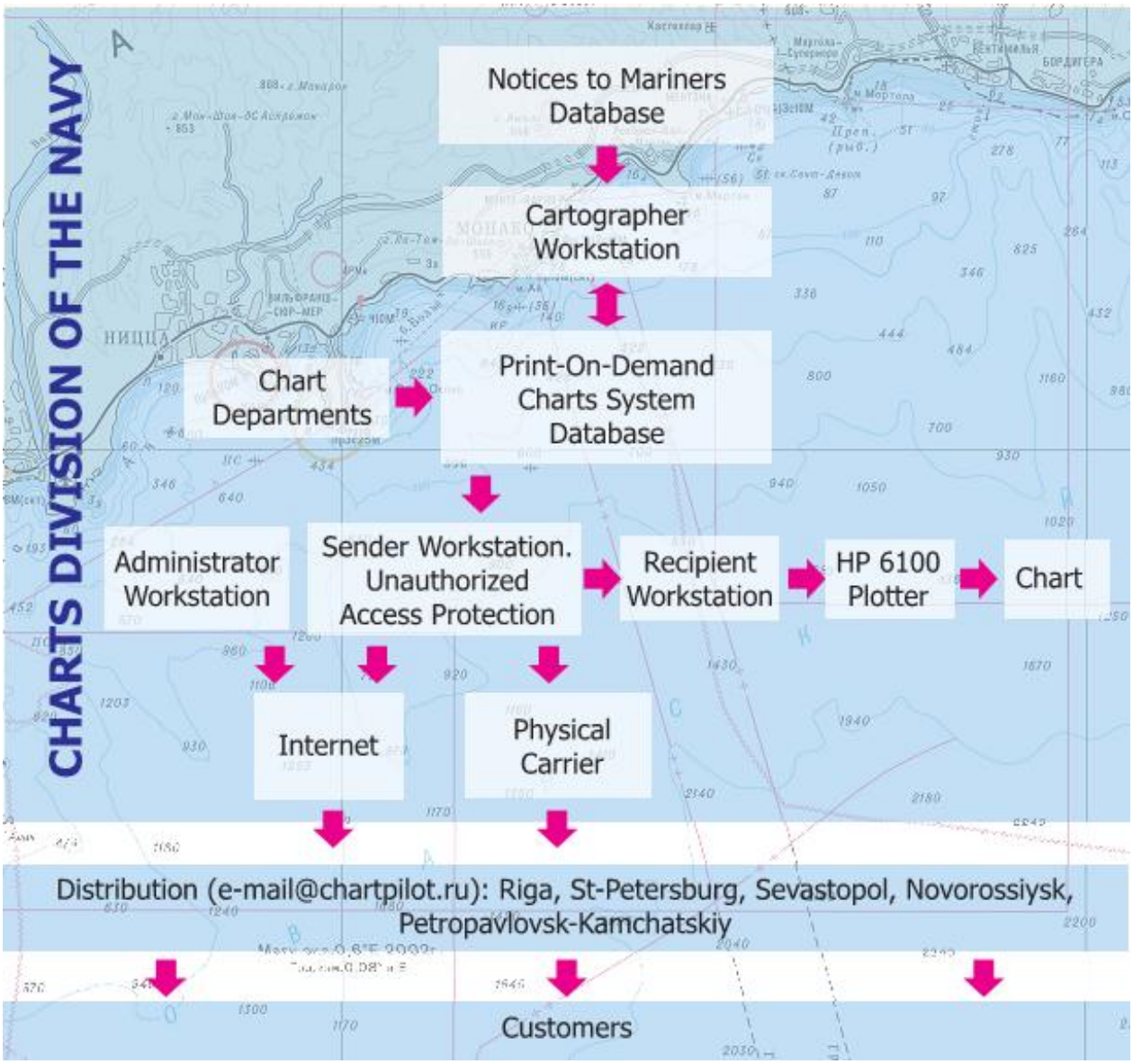


Fig. 2

4. New publications and updates.

4.1. New Publications.

Table 2

Item No.	Adm. No.	Publication name
1	1105	Iceland and Jan Mayen Pilot
2	2102	List of Lights of Norway Coasts ,Part 2
3	2105	List of Lights and Beacons of the White Sea

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 Arctic Seas

The national coordinators of MSI promulgation in the Arctic Seas are Denmark (Greenland), Canada, Norway, the Russian Federation and the United States.

Transmission of MSI by National HS is carried out over four regions of coastal warnings:

- Murmansk CW Region (Southern Part of the Barents Sea) which is the area of responsibility of HS NF;

- Arkhangel'sk CW Region (White Sea) which is the area of responsibility of HS NF;

- West CW Region (Southern Parts of Kara and Laptev Seas, westward of meridian 125° E) which is the area of responsibility of Federal State Unitary Enterprise (FSUE) "Hydrographic Department" of Ministry of Transport;

- East CW Region (Southern Parts of Laptev, eastward of meridian 125° E, East Siberian and Chukchi Seas) which is the area of responsibility of FSUE "Hydrographic Department" of Ministry of Transport.

- East CW Region (White Sea) which is the area of responsibility of HS NF; Coordinator of WWNWS areas NAVAREAXX and XXI (Arctic sector from meridian 30° E to meridian 168° W) is FSUE "Hydrographic Department" of Ministry of Transport.

Russian NAVTEX Stations in the Arctic Seas

Table 3

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

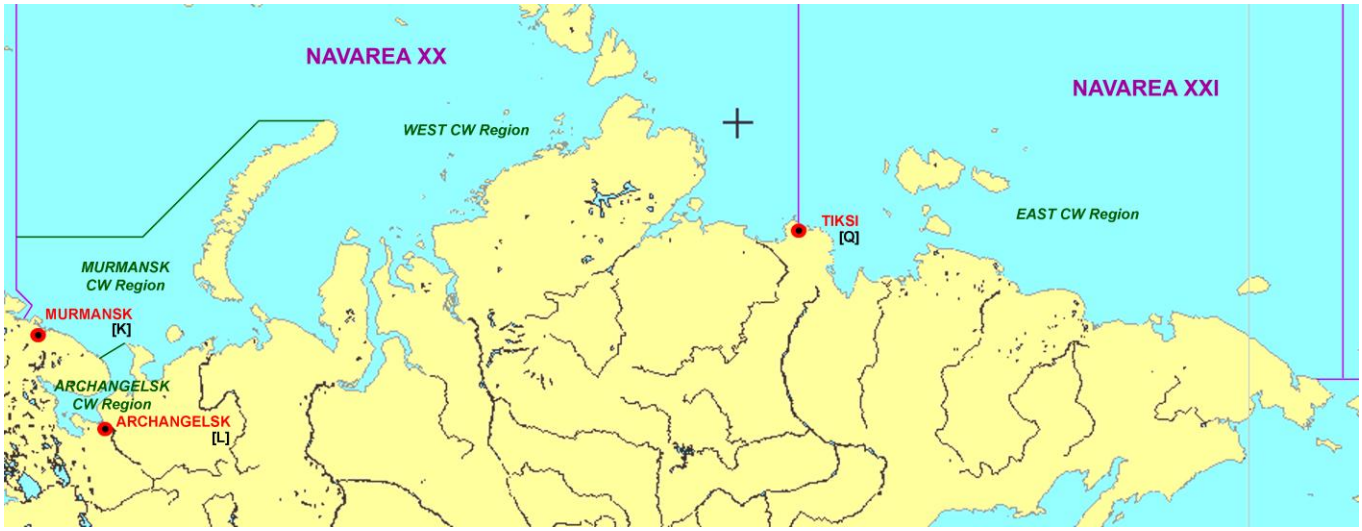


Fig. 3

Number of Announced Coastal Warnings for Three Years

Table 4

CW Region	2009	2010	2011
CW Murmansk	297	293	344
CW Arkhangel'sk	98	88	76
CW West	99	89	85
CW East	31	41	56

5.3. Changes in the Structure in Accord with Master Plan

From January 1, 2012, the identifier of B1 transmitter of Arkhangel'sk NAVTEX station is changed from "F" to "L" with respective change of transmission schedule.

From April 1, 2012, the identifier of B1 transmitter of Murmansk NAVTEX station is changed from "C" to "K" with respective change of transmission schedule.

NAVTEX stations network development program along the Northern Sea Route from the Kara Sea to the Bering Sea is currently in the implementation phase. Of the nine stations planned operates Tiksi station.

Planned placing of NAVTEX stations within NAVAREA XX and XXI
(on materials of FSUE "Hydrographic Department" of Ministry of Transport RF presented at the Coordination Group of International Maritime Organization)

Table 5

Murmansk	K	68°46.0'C 032°58.0'B
Arkhangel'sk	L	64°51.0'C 040°17.0'B
Mys Tonkiy	M	69°51.4'C 061°06.4'B
Ostrov Bol'shoy Medvezhiy	N	73°31.0'C 080°09.6'B
Mys Sterlegova	O	75°23.6'C 088°45.3'B
Ostrov Andreya	P	76°46.7'C 110°45.4'B
Tiksi	Q	71°38.0'C 128°50.0'B
Ostrov Kotel'nyy	R	75°59.5'C 137°52.3'B
Reka Indigirka	S	71°16.4'C 150°17.1'B
Yanrangay	T	70°07.3'C 170°32.6'B
Mys Shmidta	U	68°55.9'C 179°29.8'3

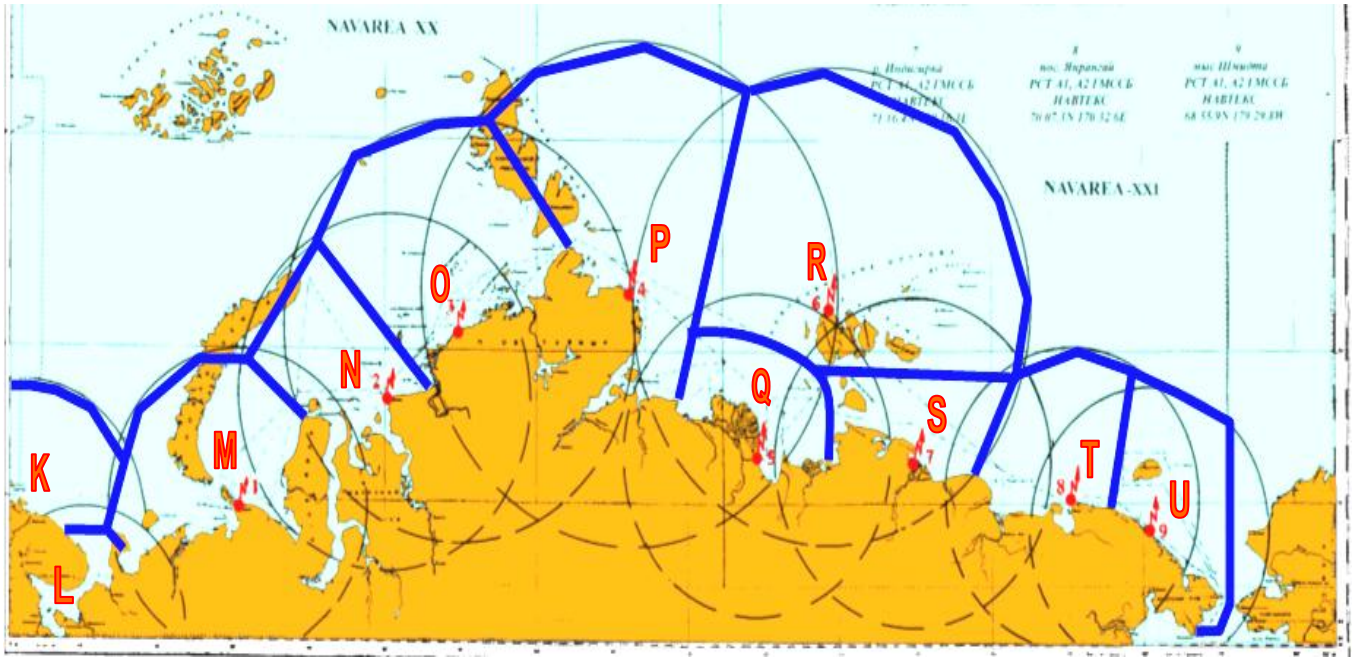


Fig. 4

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. 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 activity results of the Hydrographic Service of the Russian Federation for the period since the last meeting of the Commission.

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website: http://structure.mil.ru/structure/forces/hydrographic/about.htm (NtMs are available in English)

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