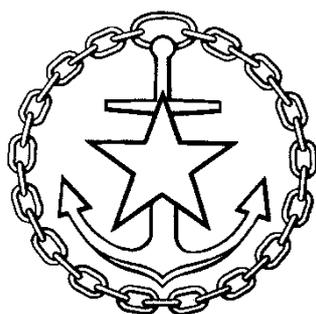


**DEPARTMENT OF NAVIGATION AND OCEANOGRAPHY  
MINISTRY OF DEFENSE OF THE RUSSIAN FEDERATION**

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**HCA12-07.4Aq**

**NATIONAL REPORT  
OF THE RUSSIAN FEDERATION**



12-th MEETING of HYDROGRAPHIC COMISSION on ANTARCTICA

Uruguay, Montevideo, 10-12 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 11-th meeting of HCA, October, 2011, Australia.

## **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. New Technologies and/or Equipment

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

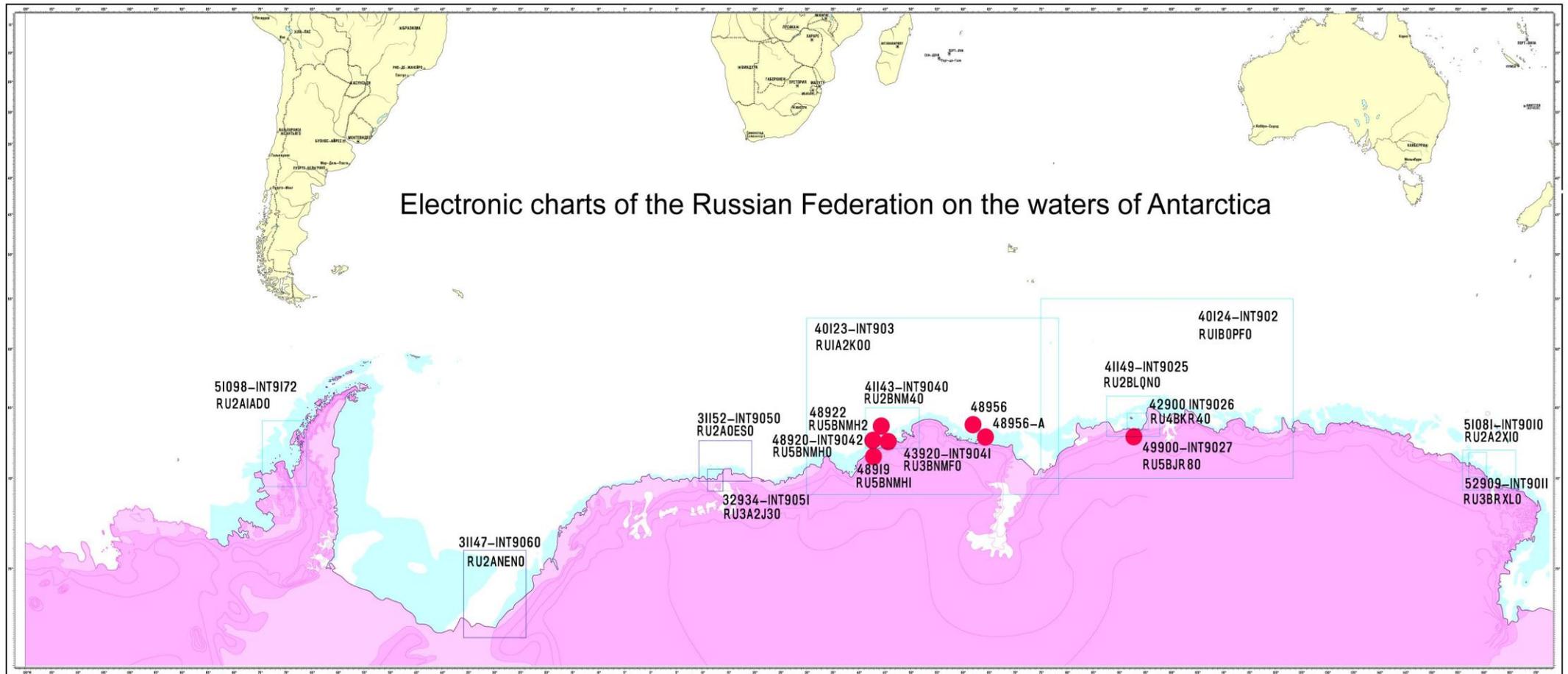
### 2.3. New Vessels

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.



Electronic charts of the Russian Federation on the waters of Antarctica

ENC		
Cell No	Scale	Number
RU1...	2 000 000	2
RU2...	2 000 000	1
RU2...	500 000	5
RU3...	200 000	3
RU4...	200 000	1
RU5...	12 500	1
RU5...	10 000	1
ENC planned for 2012		
Cell No	Scale	Number
RU4...	22 000	1
RU5...	10 000	2
RU5...	8 000	1

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.

To date, the DNO of the RF MD has fully performed its obligations to issue of International Charts on the waters of Antarctica. In recent years, it only re-publishes these charts.

#### **List of International Charts Edited under Frames of Hydrographic Commission on Antarctica**

**Table 1**

No.	Chart INT No.	Chart Russian No.	Chart Name	Scale 1:	Date of Publication
1	INT902	40124	Indian Ocean. Coast of Antarctica. Mawson and Davis Seas	2 000 000	2000
2	INT903	40123	Indian Ocean. Coast of Antarctica. More Cooperation Sea and Kosmonauts Sea	2 000 000	2001
3	INT9010	51081	Pacific Ocean. Coast of Antarctica. Cape North to Lednic Matusevicha	500 000	2000
4	INT9011	52909	Cape Belousova to Terra Nova Island Plan A. Leningradskaya station	200 000 1 000	2000

5	INT9025	41149	Coast of Antarctica. Davis Sea	500 000	1999
6	INT9026	42900	Coast of Antarctica. Davis Sea. Approaches to Scientific Station Mirnyy	200 000	1999
7	INT9027	49900	Indian Ocean. Coast of Antarctica. Davis Sea. Roads Mirnyy	10 000	1999
8	INT9040	41143	Indian Ocean. Coast of Antarctica. Cape Ann to Zaliv Alasheyeva	500 000	2000
9	INT9041	43920	Indian Ocean. Coast of Antarctica. Kosmonauts Sea. Zaliv Alasheyeva	100 000	1999
10	INT9042	48920	Indian Ocean. Coast of Antarctica. Cosmonauts Sea. Zaliv Alasheyeva. Scientific Station Molodyozhnaya and Approaches	12 500	1999
11	INT9050	31152	Atlantic and Indian Ocean. Coast of Antarctica. Zaliv Leningradskiy to Erskine Iceport	500 000	1999
12	INT9051	32934	Atlantic Ocean. Antarctic Coast. More Lazareva. Zaliv Leningradskiy and Approaches	200 000	1998
13	INT9060	31147	Atlantic Ocean. Coast of Antarctica. Weddell Sea. Cabo Rol to Vahsel Bay	500 000	2000
14	INT9172	51098	Coast of Antarctica. Lavoisier (Nansen) Island to Zemlya Aleksandra I	500 000	1999

### 3.5. National Paper Charts.

DNO of the RF MD issued 90 nautical charts on the waters of Antarctica. Scale row is shown in table 2. The collection is maintained up-to-date using correction and re-publishing of charts as new hydrographic data become available.

**Table 2**

Scale	Number
1: 5 000 000	9
1: 2 000 000	12
1: 500 000	43
1: 250 000	2
1: 200 000	3
1: 100 000	2
1: 75 000	1
1: 50 000	5
1: 30 000	2
1: 25 000	1
1: 15 000	2
1: 12 500	1
1: 10 000	5
1: 7 500	1
1: 5 000	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.

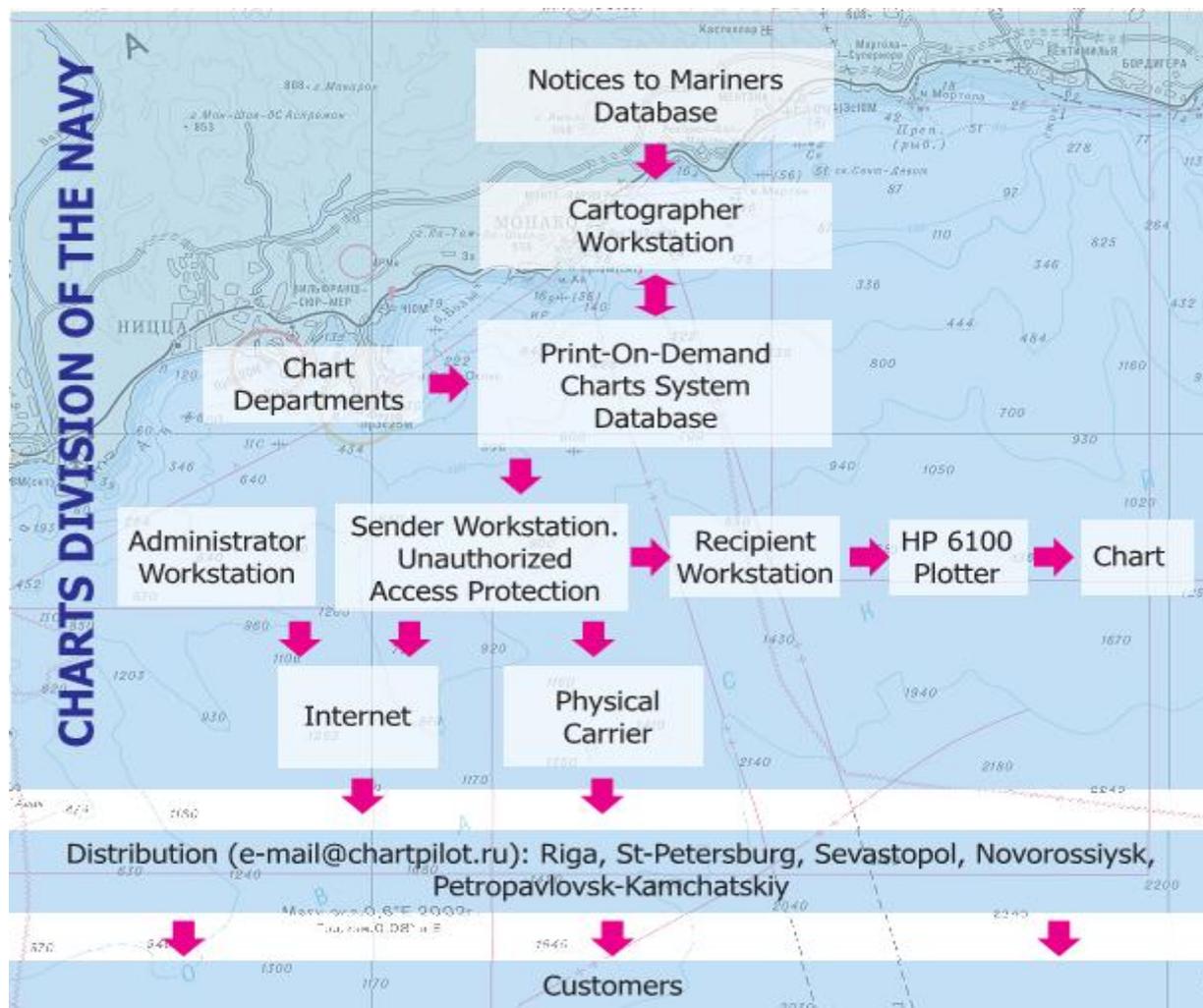


Fig. 2

#### 4. New publications and updates.

##### 4.1. New Publications.

Table 3

Item No.	Adm. No.	Publication name
1	3013	Broadcast schedule of navigational warnings and hydrometeorological messages transmitted to radio stations of Pacific and Indian Oceans

#### 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)**

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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