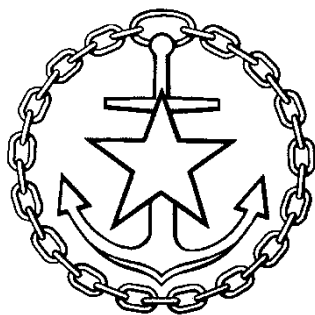


**DEPARTMENT OF NAVIGATION AND OCEANOGRAPHY
MINISTRY OF DEFENSE OF THE RUSSIAN FEDERATION**

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



**TO THE
18TH MEDITERRANEAN & BLACK SEA
HYDROGRAPHIC COMMISSION MEETING**

Istanbul, Turkey, 25-27 September, 2013

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.

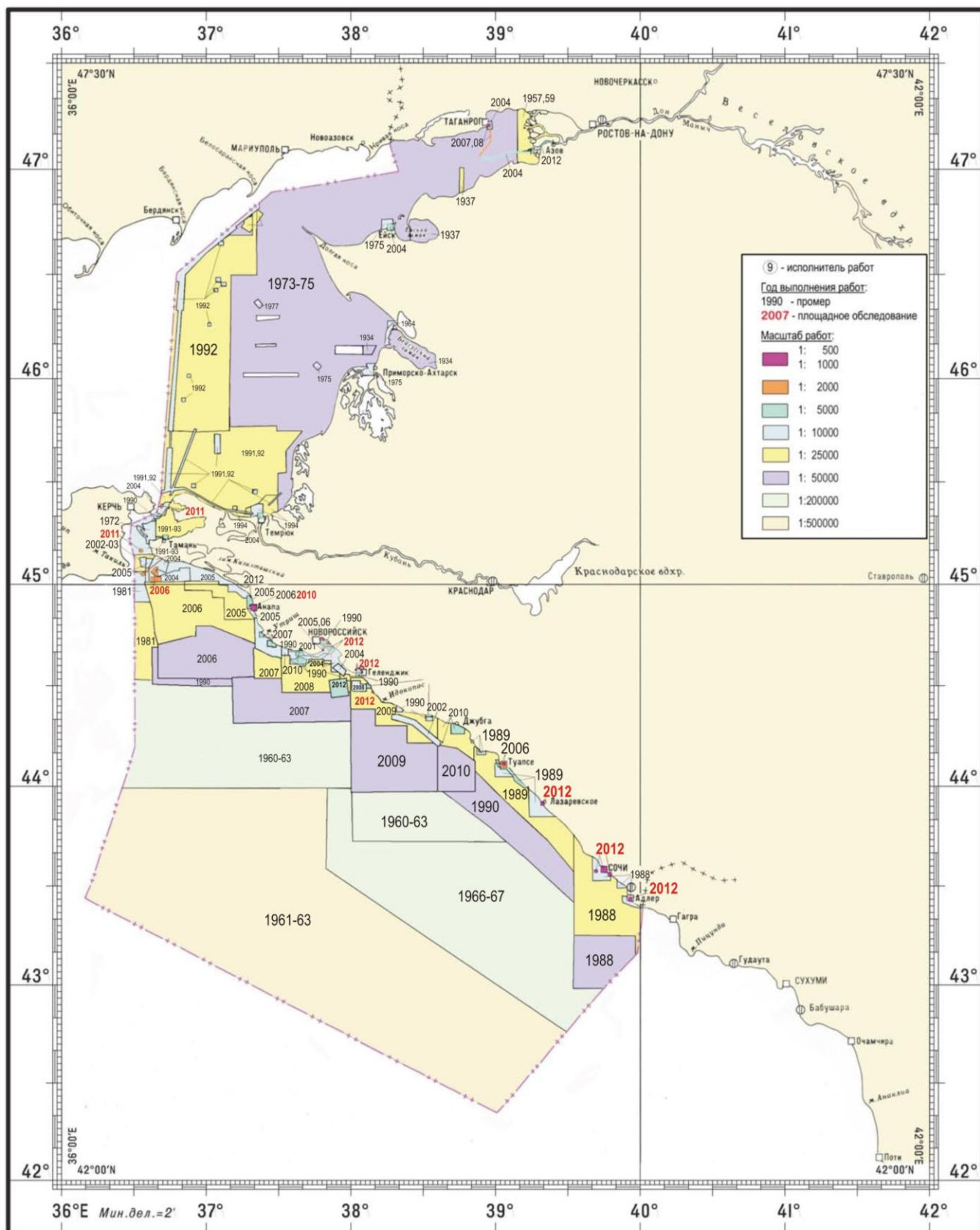
Direct preparation and edition of charts, manuals and publications are realized in the Charts Division of the Navy. Materials of hydrographic research carried out by regional hydrographic services, as well as contributions from interagency cooperation to hydrographic researches, serve as a base for edition of charts and books.

2. Surveys

2.1. Areas of Coverage by New Surveys

Table 1

No.	Area of Activity	Kind of Activity	Scale	Year of Activity
1	Port Novorossiysk	Area survey	1:2 000	2011-2012
2	Port Sochi water area and Approach Canal Water area of anchorage №419 Water area of Adler Marine Terminal Water area of Lazarevskoye Marine Terminal Water area of Matsesta Marine Terminal	Area survey	1:1 000 1:500	2012
3	Water areas of approach canal, entrance road and operational water areas at №5 and №6 Berths of Tamanskiy oil Terminal	Area survey	1:2 000	2012
4	Water area of cargo area within the mouth of Reka Mzymta	Area survey and topographic survey	1:1 000	2012
5	Sea of Azov. Reka Don, river part of Azovo-Donskoy Maritime Canal (3168.7 km to 3183 km)	Sounding	1:5 000	2012
6	SW of Gelendzikskaya Bukhta (calibration range)	Sounding	1:5 000	2012
7	Water area of ports Novorossiysk, Gelendzhik and Anapa	Area survey, sounding and topographic survey	1:500 1:2 000 1:5 000	2012



Scheme of hydrographic studies of Black Sea and Sea of Azov

Fig. 1

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

For period since the last meeting of the Commission, the new electronic navigational charts have not been edited.

3.1. Electronic Navigational Charts

Table 2

Cell №	Title (area)	Scale 1:
<i>BLACK SEA</i>		
RU4M9LS0	Caucasian Coast. Port Sochi and Adler Roads with approaches	45 000
RU4MBLQ0	Caucasian Coast. Port Tuapse and approaches	45 000
RU4MDL90	Coast of the Crimea. Lukull Point to Fiolent Point	45 000
RU4MDLM0	Caucasian Coast. Approaches to Novorossiysk and Gelendzhik	45 000
RU4MELF0	Meganom Point to Chauda Point	45 000
RU4MELK0	Caucasian Coast. Yantarnyy Lighthouse to Kubanskiy Light-Beacon	22 000
RU4MELL0	Caucasian Coast. Approaches to Port Anapa	22 000
RU5MALT0	Caucasian Coast. Port Sochi	4 000
RU5MCLR0	Caucasian Coast. Port Tuapse	8 000
RU5MDLA0	Caucasian Coast. Sevastopol'skaya Bay	8 000
RU5MDLA1	Coast of the Crimea. Streletskaya Bay and Kruglaya Bay	4 000
RU5MDLA2	Coast of the Crimea. Dvoynaya Bay and Kamyshovaya Bay	8 000
RU5MDLO0	Caucasian Coast. Gelendzhikskaya Bay	8 000
RU5MELL0	Caucasian Coast. Anapskiy Roads	8 000
RU5MELN0	Caucasian Coast. Piers of Port Novorossiysk	8 000
RU5MFLG0	Coast of the Crimea. Port Feodosiya and approaches	8 000
<i>SEA OF AZOV</i>		
RU4MFLJ0	Kerchenskiy Strait	45 000
RU4MFLK0	Temryukskiy Gulf. Approaches to Port Temryuk	45 000
RU4MFLK1	Kerchenskiy Strait. Eastern Part of Tamanskiy Gulf	22 000
RU4MHLE0	Approaches to Port Genichesk	45 000
RU4MILO0	Yasenskiy Gulf. Primorsko-Akhtarsk to Yasenskaya	45 000

	Pereprava and Beysugskiy Liman	
RU4MJLJ0	Approaches to Port Berdyansk	45 000
RU4MJLN0	Taganrogskiy Gulf. Approaches to Port Yeysk	45 000
RU4MKLL0	Approaches to Port Mariupol'	45 000
RU4MKLP0	Taganrogskiy Gulf. Approaches to Port Taganrog	45 000
RU5MFLJ0	Kerchenskiy Strait. Port Kerch'	8 000
RU5MFL0	Southern Part. Port Temryuk	8 000
RU5MGLJ0	Kerchenskiy Strait. Port Krym	4 000
RU5MGLK0	Kerchenskiy Strait. Port Kavkaz	4 000
RU5MKLK0	Port Berdyansk	4 000
RU5MKLO0	Taganrogskiy Gulf. Port Yeysk	8 000
RU5MLLM0	Port Mariupol' and approaches	8 000
RU5MLLQ0	Port Taganrog	4 000

Cell №	Title (area)	Scale 1:
<i>ROUTE AND GENERAL CHARTS</i>		
<i>BLACK SEA AND SEA OF AZOV</i>		
RU2MFLB0	Sea of Azov	700 000
RU2M3KM0	Western Part of Black Sea	700 000
RU2M2LB0	Eastern Part of Black Sea	700 000
RU3M6LO0	Caucasian Coast. Kudepsta to Kholodnaya Rechka	180 000
RU3MAL60	Coast of Crimea. Nikolayevka to Kikineyz Point	180 000
RU3MALO0	Caucasian Coast. Idokopas Point to Khosta	180 000
RU3MBL0	Coast of the Crimea. Opasnyy Point to Chauda Point	180 000
RU3MBLJ0	Coast of the Crimea and Caucasian Coast. Opuk Point to Tolstyy Point	180 000
RU3MFLE0	Western Part of Sea of Azov	180 000
RU3MFLJ0	Eastern Part of Sea of Azov	180 000
RU3MEL60	Northwestern Part of Black Sea. Tendrovskaya Spit to Yevpatoriya	180 000

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 does not distribute RNCs.

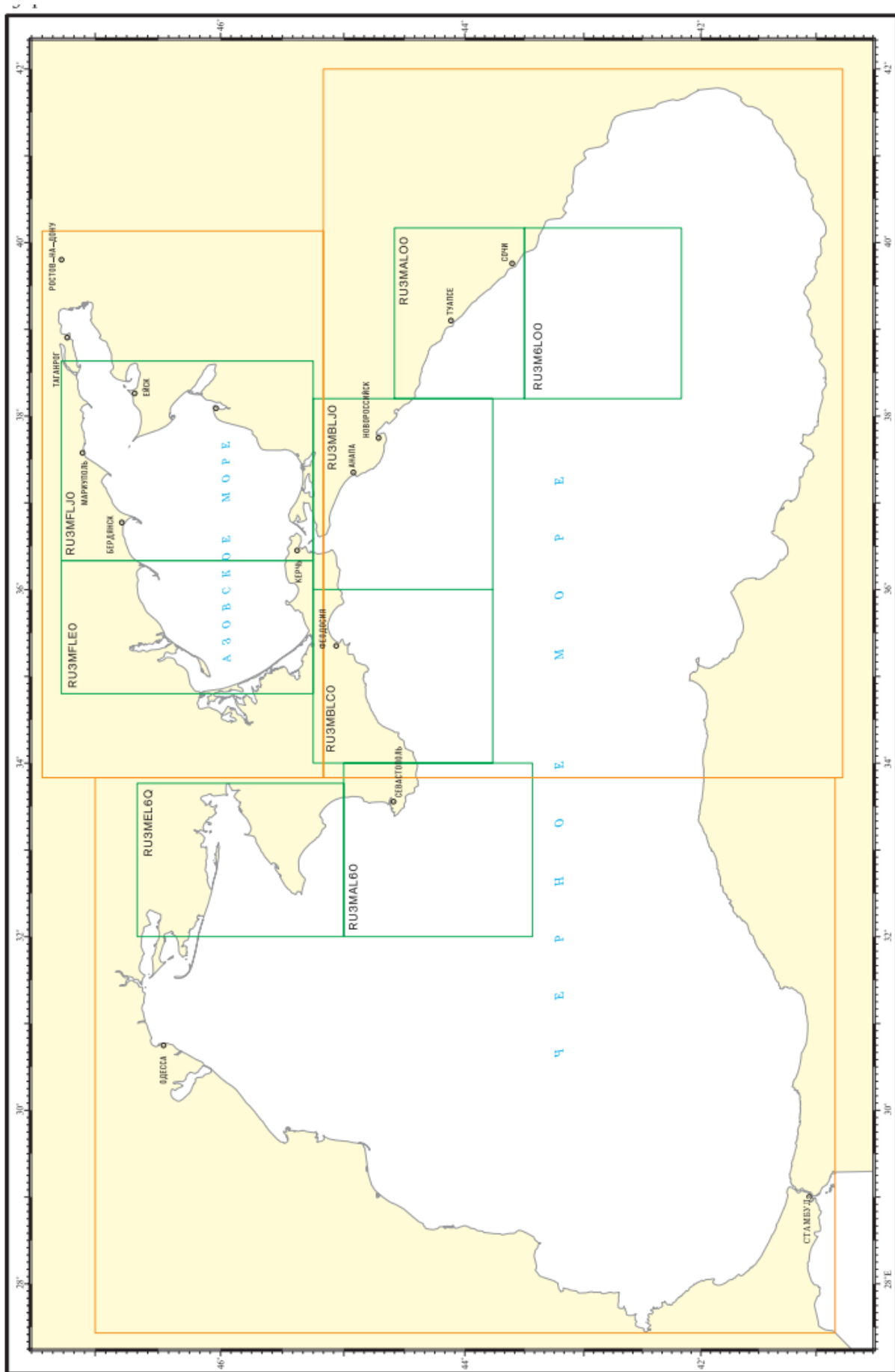


Fig. 3

3.4. International (INT) Charts

DNO, in its capacity of a member of the Mediterranean and Black Seas Hydrographic Commission, assumed the responsibility for publication of seven medium and large scale INT charts. Please, see below the List for details:

**List of International Charts
Published by Russia for the Region of the Mediterranean and Black Seas
Hydrographic Commission**

Table 3

No.	INT Chart Number	RU Chart Number	Title	Scale 1:	Published	Printed	Comments
1	3808	32174	Port Ochamchira to Port Tirebolu	300 000	2012		RU/TR
2	3810	32173	Bukhta Vulcan to Port Ochamchira	300 000	2011		
3	3812	32172	Mys Il'i to Bukhta Vulcan	300 000	2011		
4	3877	35163	Port Sochi and Adler Roads and Approaches	50 000	2012		
5	3879	35160	Port Tuapse and Approaches	50 000	2012		
6	3880	35156	Approaches to Novorossiysk and Gelendzhik	50 000	2011		
7	3881	38172	Port Novorossiysk	10 000	2011		

The Chart 35186 (Sokhumi), which is INT Chart 3875, covers waters of Abkhazia and therefore it would be reasonable to solve the issue of publication of this Chart within the Commission on the Delimitation of Maritime Boundaries between the Republic of Abkhazia and the Russian Federation.

We are of opinion that it would be unadvisable to issue the Charts 38190 (P'ot'i) and 38198 (Bat'umi), which are assigned INT numbers 3873 and 3871, as INT Charts, because actually there is no information on fairway marking for the waters of Georgia; the responsibility for the production of the Charts should be delegated to Georgia.

The INT numbers 3816, 3814, 3885, 3887, 3889, 3891 were withdrawn from the corresponding Russian Charts 32170, 32171, 38109, 35107, 38104, 35112 as a result of their transferal to Ukraine.

The INT Charts 3883 (Port Yalta), 3893 (Approaches to Odesa Port) and 3895 (Illichivs'k Port) have already been transferred and are being published by Ukraine.

Thus, in the List of INT charts for the region of the Mediterranean and Black Seas Hydrographic Commission:

Russia issues 7 charts;
 Ukraine issues 9 charts; and
 it would be reasonable to assign the responsibility for 1 chart (Sokhumi Port) to Abkhazia
 and for 2 charts (P'ot'i and Bat'umi Ports) to Georgia.

3.5. National Paper Charts

Table 4

1: 1 250 000	1
1: 750 000	2
1: 500 000	6
1: 2 000 – 1: 300 000	132+26=158
Black Sea and Sea of Azov	
1: 300 000 – 1: 200 000	30
Western Part of Black Sea	
1: 2 000 – 1: 100 000	63
Eastern Part of Black Sea	
1: 5 000 – 1: 100 000	53
Sea of Azov and Kerchenskiy Proliv	
1: 5 000 – 1: 100 000	27

Black Sea -146 charts; Sea of Azov – 27 charts
 Total: 182 charts

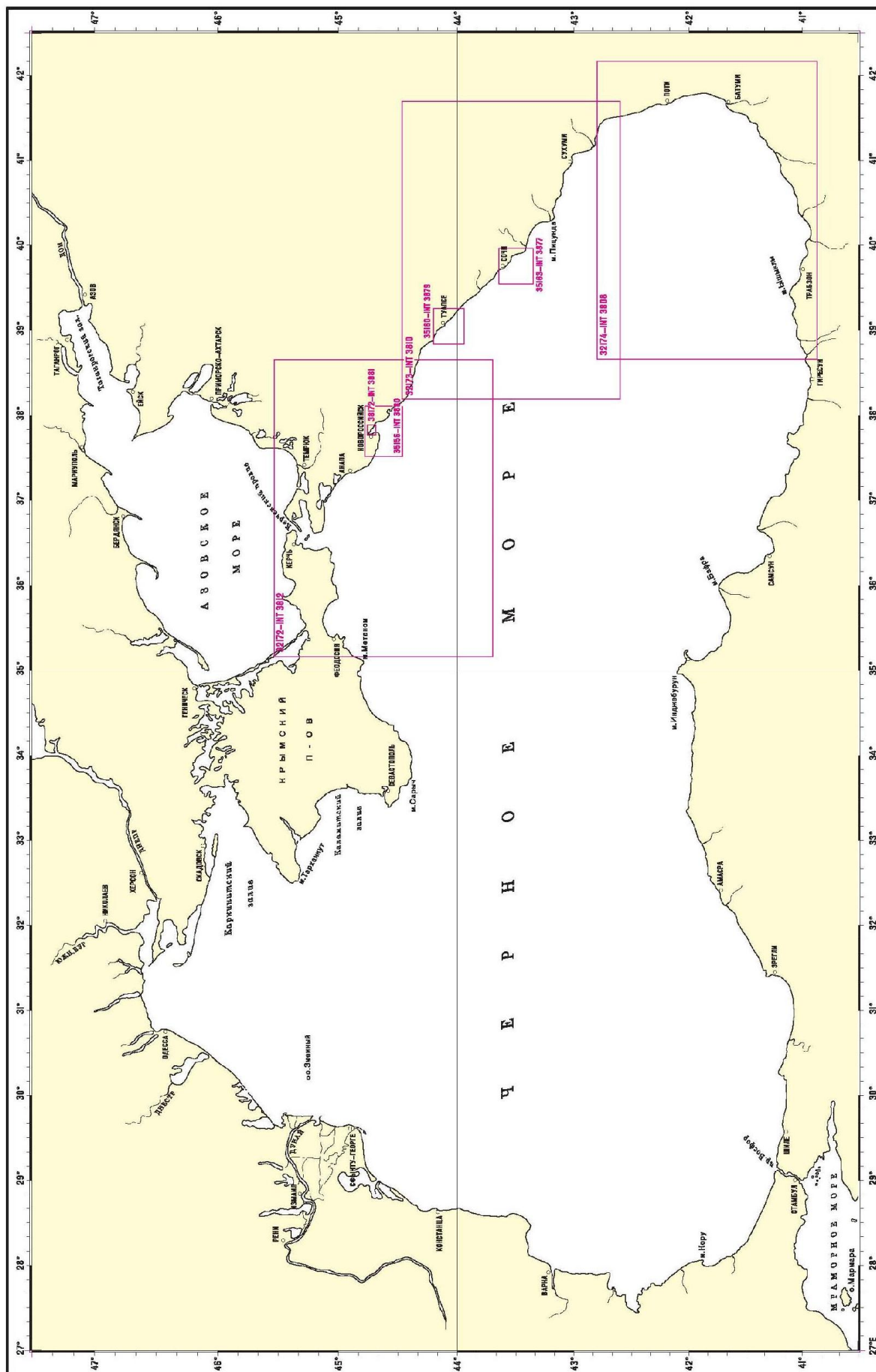


Fig. 5

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.

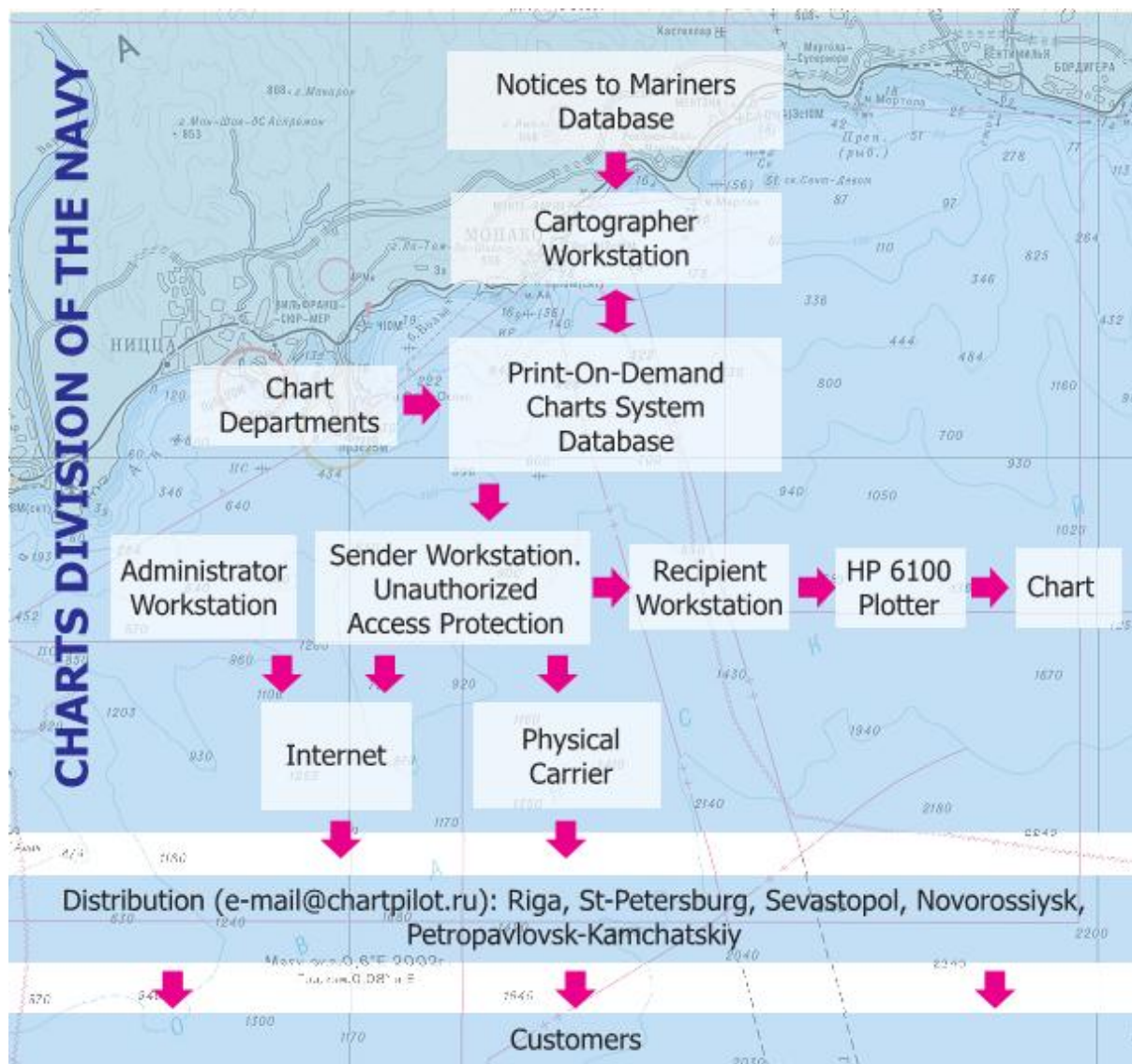


Fig. 6

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.

4. New publications and updates.

4.1. New Publications.

New Guides and Publications produced for period 2011-2012

Table 5

№	Title	Edition year	Notes
2217	List of Lights: Black Sea and Sea of Azov	2012	

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

The Russian Federation, along with Bulgaria, Georgia, Romania, Turkey, and Ukraine, is one of the six coastal States which serve as National Coordinators for Maritime Safety Information (MSI) service within Black Sea Region which is a part of NAVAREA III under the World-Wide Navigational Warning Service (WWNWS).

MSI broadcasting is carried out by National Hydrographic Service for one area of coastal warnings (CW):

- CW Novorossiysk Area.



Promulgation of Navigational Warnings

Fig. 7

Broadcasting of maritime safety information is mainly provided through six NAVTEX stations which are Varna (Bulgaria), Odesa (Ukraine), Kerch' (Ukraine), Novorossiysk (Russia), Samsun (Turkey), and Istanbul (Turkey). Within WWNWS navigational warnings are promulgated by National Coordinators through their own stations or, if agreed, through stations of the neighbouring States, and by the NAVAREA III Coordinator (Spain). There is no integrated scheme of broadcasting for this region like the scheme implemented for the Baltic region and successfully operated for the Sub-Area of NAVAREA I. In 2006 Russia made a proposal which invited attention to the initiative on establishing such a Sub-Area. The issue was considered at the 10th Meeting of the WG on the Safety of Navigation in the Black and Azov Seas (BASWG-10, Istanbul, Turkey, May 2010). The participants of BASWG-10 noted that the issues of MSI promulgation in the region are connected with the development of a network of NAVTEX stations, and they did not go into the question of regional coordination while the representative of NAVAREA III, who made a presentation on information activities, advanced the idea that coordinated cooperation between the States bordering the Black Sea was needed.

In the *MSI Self Assessment NAVAREA III* document (Doc. WWNWS2/3/2-III) submitted by Spain to the 2nd Meeting of the IHO Sub-Committee on the World-Wide Navigational Warning Service (Sydney, Australia, 9 – 13 August 2010), the position of the States in the region concerning the establishment of a new Sub-Area in NAVAREA III is outlined with one clause:

“The initiative to establish a new Sub-area for the Black Sea under the NAVAREA III area has been rejected, due to the lack of agreement among bordering countries”.

For the last two years there has been no change in the liaison between the States of the region in the field of MSI promulgation.

Costal Warnings broadcast during the period of time covered by this report:

Table 6

Russian NAVTEX station in the Black Sea

Novorossiysk	44°36'N	037°58'E	300 miles	518 kHz	A
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Number of Costal Warnings broadcast

<i>CW Area</i>	<i>2010</i>	<i>2011</i>	<i>2012</i>
CW Novorossiysk Area	269	271	292

Electronic versions of Notices to Mariners and NAVAREA Warning Bulletins are available in pdf format at the official website of the Ministry of Defense of the Russian Federation:

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

6. S-55.

Black and Azov Seas

Water Area of Russia – 54 020 km²

Area with depth < 200 m – 4 900 km²

Area with depth > 200 m – 49 120 km²

Table 7

Depth Range	% adequately surveyed	% requiring re-survey	% which has never been systematically surveyed
Depths < 200 m	100	-	-
Depths > 200 m	100	-	-

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.

Contacts:

telephone/fax: +7 812 323 75 48

fax: +7 812 323 70 29

e-mail: main@gunio.ru

navarea13@gunio.ru

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

address: 8, 11 Liniya, St.-Petersburg, 199034