

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

**NATIONAL REPORT
OF THE RUSSIAN FEDERATION**



**21TH MEETING OF MEDITERRANEAN and
BLACKSEAS HYDROGRAPHIC COMMISSION**

Spain, Cadiz, 11-13 June 2019

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 DNO 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.

2. Surveys

2.1. Areas covered 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 |
| Black Sea and Mediterranean Sea | | | | | | |
| 1. | Port Tuapse | Area survey | 2017 | 1:500 1:1 000 1:2 000 | 1.81 | |
| 2. | The area of berths №5,6,7,8 for four large-capacity vessels in borders of a section №3 of the water area of Seaport Kavkaz | Area survey | 2017 | 1:5 000 | 5.02 | |

The scheme of hydrographic coverage

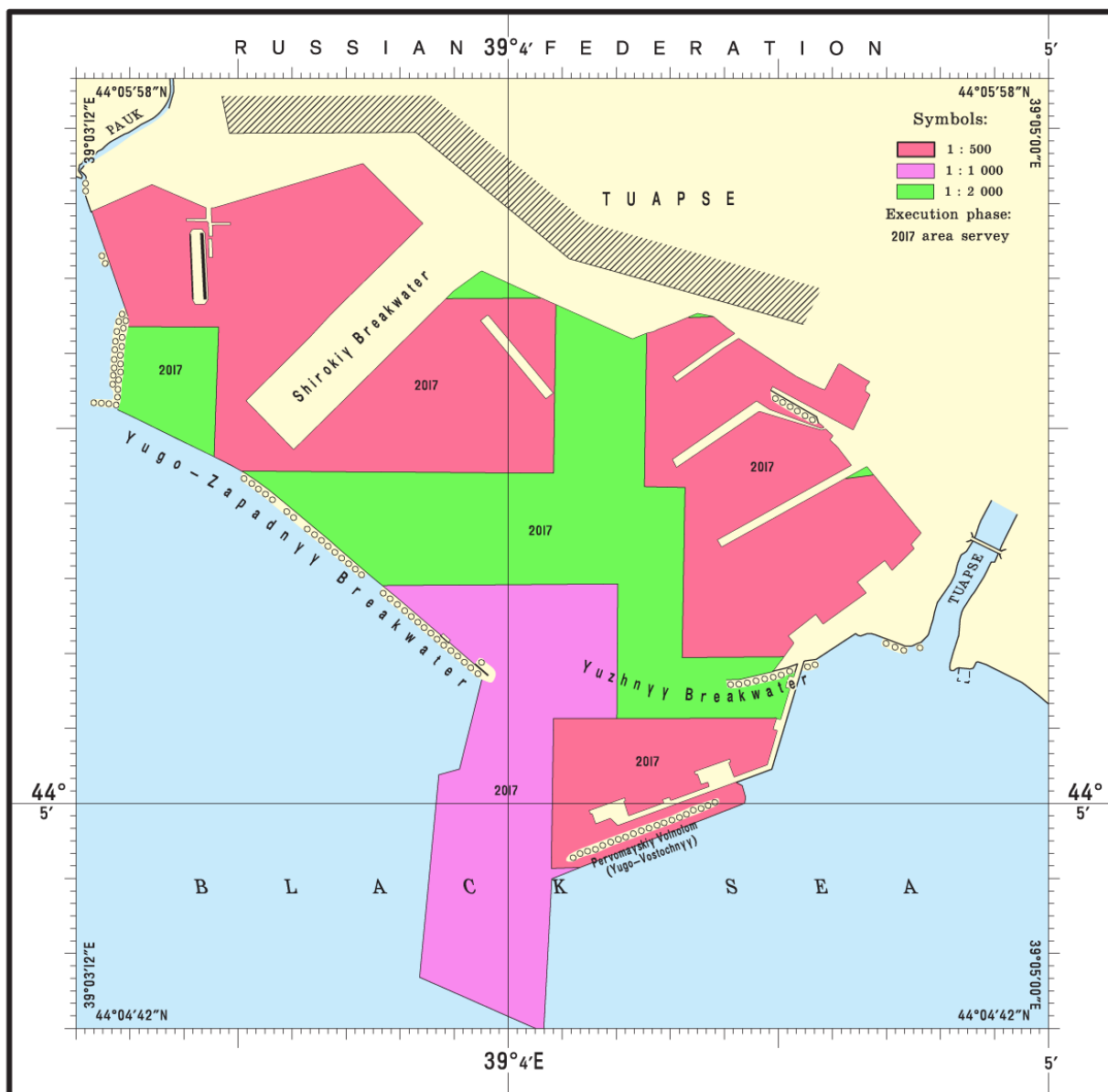


Fig.1

The scheme of hydrographic coverage

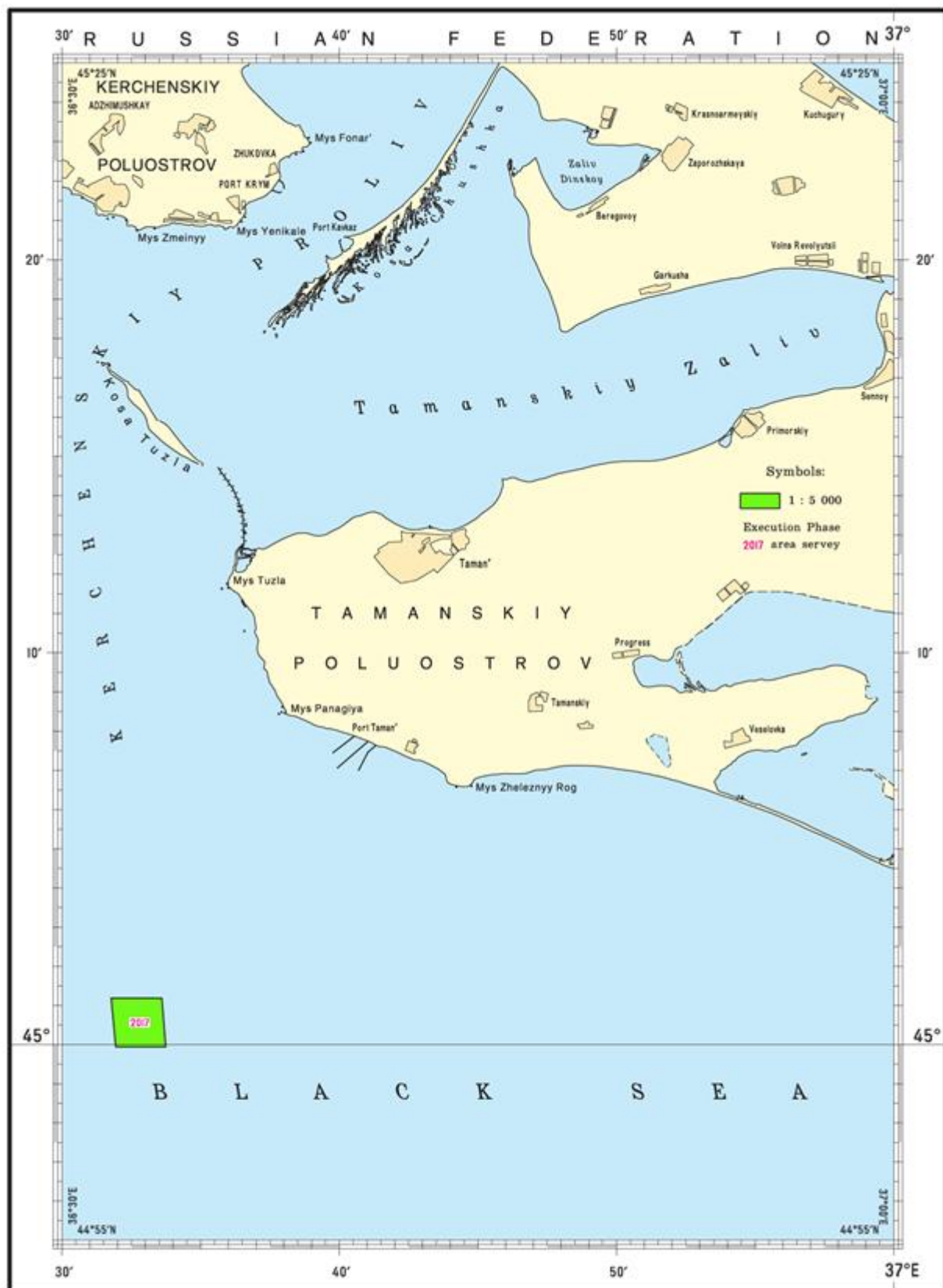


Fig.2

2.2. New technologies and/or equipment

In 2017 – 2019 the modern mobile single- and multi-beam echo-sounders, side-scanning sonars, sub-bottom profilers and hydrographic data processing products were provided to the regional hydrographic divisions.



Fig. 3. Mobile side scan sonar complex “Neman GBOE” (general view).



Fig. 4. Mobile side scan sonar complex “Neman GBOE” (packed in cases)

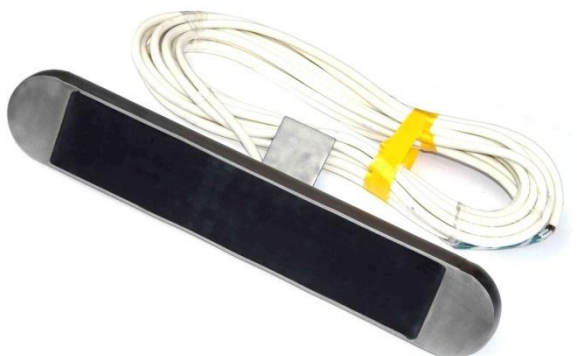


Fig. 5. Antenna unit



Fig. 6. Portable workstation based on the notebook (mobile installation)

Basic specifications:

| | |
|---|-----------|
| operating frequency, kHz – | 240 – 290 |
| down range on one board, max, m – | 300 |
| down range detection of objects, max, m – | 180 – 220 |
| swath width, m– | 300 – 350 |
| resolution, cm – | 4 |
| weight, kg – | 17 |

2.3 New survey vessels

In 2017 – 2019 the regional hydrographic divisions received modern hydrographic survey echo-sounding launches equipped with the multi-beam echo-sounders and side-scanning sonars.

The Hydrographic survey echo-sounding launch is designed and constructed to provide bathymetric surveying and gathering underwater data in coastal waters at 400 meters depths and at 100 miles from the shore.



Fig. 7. Hydrographic survey echo-sounding launch

Basic specifications:

| | |
|------------------|-------------|
| overall length – | 36,4 meters |
| beam – | 7,8 meters |
| draft – | 2,0 meters |
| speed – | 8 knots |
| crew – | 11 |

3. New charts and updates

3.1. Electronic navigational charts

Table2

The list of electronic navigation charts

| № Item | Cell № | Name of the area | Scale | Date of new edition |
|-------------------|---------------|---|--------------|------------------------------------|
| BlackSea | | | | |
| 1. | RU2M2LB0 | Eastern Part of Black Sea | 700 000 | 2019 |
| 2. | RU3MEL60 | Black Sea North-Western Part Tendrovskoy Spit to Evpatoriya | 1:180 000 | 2015 |
| 3. | RU3MAL61 | Black Sea Crimea of the Caucasus Approaches of Port Sevastopol' | 1: 180 000 | 2016 |
| 4. | RU3MALO0 | Black Sea Crimea of the Caucasus Idokopas Point to Khosta | 1:180 000 | 2015 |
| 5. | RU3MBLB0 | Black Sea Coast of the Crimea From Opasnyy Point to Chauda Point | 1:180 000 | 2015 |

| | | | | |
|-----|----------|---|-----------|------|
| 6. | RU3MBLJ0 | Black Sea Coast of the Crimea and Caucasus Point Opuk to Point Tolstyy | 1:180 000 | 2015 |
| 7. | RU4M9LS0 | Black Sea Coast of the Caucasus Port Sochi and Adler Roads with Approaches | 45 000 | 2018 |
| 8. | RU4MBLQ0 | Black Sea Coast of the Caucasus Tuapse Port wint approaches | 1:45 000 | 2015 |
| 9. | RU4MCLB0 | Black Sea Crimea Peninsula Simeiz to Gurzuf | 45 000 | 2018 |
| 10. | RU4MCLP0 | Black Sea Coast of the Caucasus Port VulanBay to Tenginskaya Bay | 45 000 | 2018 |
| 11. | RU4MDL91 | Black Sea Crimea Peninsula From Point Lukull to Point Fiolent | 45 000 | 2018 |
| 12. | RU4MDLE0 | Black Sea Crimea Peninsula Approaches to Morskoye Settlement | 22 000 | 2018 |
| 13. | RU4MDLM0 | Black Sea Coast of the Caucasus Approaches to Novorossiysk and Gelendzhik | 45 000 | 2018 |
| 14. | RU4MELJ0 | Black Sea Approaches to Kerchenskiy Straitfrom the South | 45 000 | 2018 |
| 15. | RU4MELF0 | Black Sea Crimea Peninsula Meganom Point to Port Feodosiya | 45 000 | 2018 |
| 16. | RU4MELG0 | Black Sea Crimea Peninsula Feodosiyskiy Gulf | 45 000 | 2018 |
| 17. | RU4MELH0 | Black Sea Crimea Peninsula Dyurmen Leading Light to Settlement Yakovenkovo | 45 000 | 2018 |
| 18. | RU4MELK0 | Black Sea Coast of the Caucasus Yantarnyy Lighthouse to Kubanskiy Light-Beacon | 22 000 | 2018 |
| 19. | RU4MELL0 | Black Sea Coast of the Caucasus Approaches to Port Anapa | 22 000 | 2018 |
| 20. | RU5MALT3 | Black Sea Coast of the Caucasus Adler Harbour | 4 000 | 2018 |
| 21. | RU5MCLQ0 | Black Sea Coast of the Caucasus Ol'ginskaya Bay | 8 000 | 2018 |
| 22. | RU5MCLQ1 | Black Sea Coast of the Caucasus Dzhubga Bay and Tenginskaya Bay | 8 000 | 2018 |
| 23. | RU5MCLR1 | Black Sea Coast of the Caucasus Tuapse Port | 12 000 | 2018 |
| 24. | RU5MDLA0 | Black Sea Crimea Peninsula Bay of Sevastopol' | 1:8 000 | 2017 |

| | | | | |
|-----|----------|---|---------|------|
| 25. | RU5MDLA1 | Black Sea Crimea Peninsula Streletskaya Bay and Kruglaya Bay | 1:4 000 | 2017 |
| 26. | RU5MDLA2 | Black Sea Coast of the Crimea Dvoynaya and Kamyshovaya Bays | 1:8 000 | 2017 |
| 27. | RU5MDLC0 | Black Sea Crimea Peninsula Port Yalta with Approaches | 8 000 | 2018 |
| 28. | RU5MDLM0 | Black Sea Coast of the Caucasus Oil Terminal of Port Novorossisk | 12 000 | 2018 |
| 29. | RU5MDLM1 | Black Sea Coast of the Caucasus Malyy Utish (Utrishyonok) Point | 8 000 | 2018 |
| 30. | RU5MELE0 | Black Sea Crimea Peninsula Sudakskaya Bay | 12 000 | 2018 |
| 31. | RU5MELG0 | Black Sea Crimea Peninsula Dvuyakornaya Bay | 8 000 | 2019 |
| 32. | RU5MELJ0 | Port Taman' and approaches | 12 000 | 2016 |
| 33. | RU5MELL0 | Black Sea Coast of the Caucasus Anapskiy Roads | 8 000 | 2018 |
| 34. | RU5MELM0 | Black Sea Coast of the Caucasus Anchorages at Utrish Point | 4 000 | 2018 |
| 35. | RU5MFLG0 | Black Sea Coast of the Crimea Port Feodosiya and Approaches | 8 000 | 2018 |
| 36. | RU6MCLR0 | Black Sea Coast of the Caucasus Port Tuapse Inner Roads | 2 000 | 2018 |
| 37. | RU6MDLA0 | Black Sea Sevastopol'skaya Bay Sukharnaya Bay to Oil Harbour | 2 000 | 2018 |
| 38. | RU6MDLA1 | Black Sea Sevastopol'skaya Bay Kilen-Bukhta Bay to Gollandiya Bay | 2 000 | 2018 |
| 39. | RU6MDLA2 | Black Sea Sevastopol'skaya Bay Middle Part | 2 000 | 2018 |
| 40. | RU6MDLA3 | Black Sea Sevastopol'skaya Bay Matyushenko Bay to Yuzhnaya Bay | 2 000 | 2018 |
| 41. | RU6MDLA4 | Black Sea Sevastopol'skaya Bay Central Part and Southern Part of Yuzhnaya Bay | 2 000 | 2018 |
| 42. | RU6MDLA5 | Black Sea Sevastopol'skaya Bay Konstantinovskiy Point to Artilleriyskaya Bay | 2 000 | 2018 |
| 43. | RU6MDLC0 | Black Sea Crimea Peninsula Port Yalta | 2 000 | 2018 |
| 44. | RU6MDLC1 | Black Sea Crimea Peninsula Massandra Cargo Port | 2 000 | 2018 |
| 45. | RU6MFLG0 | Black Sea Crimea Peninsula Port Feodosiya | 2 000 | 2018 |

The scheme of electronic navigational charts

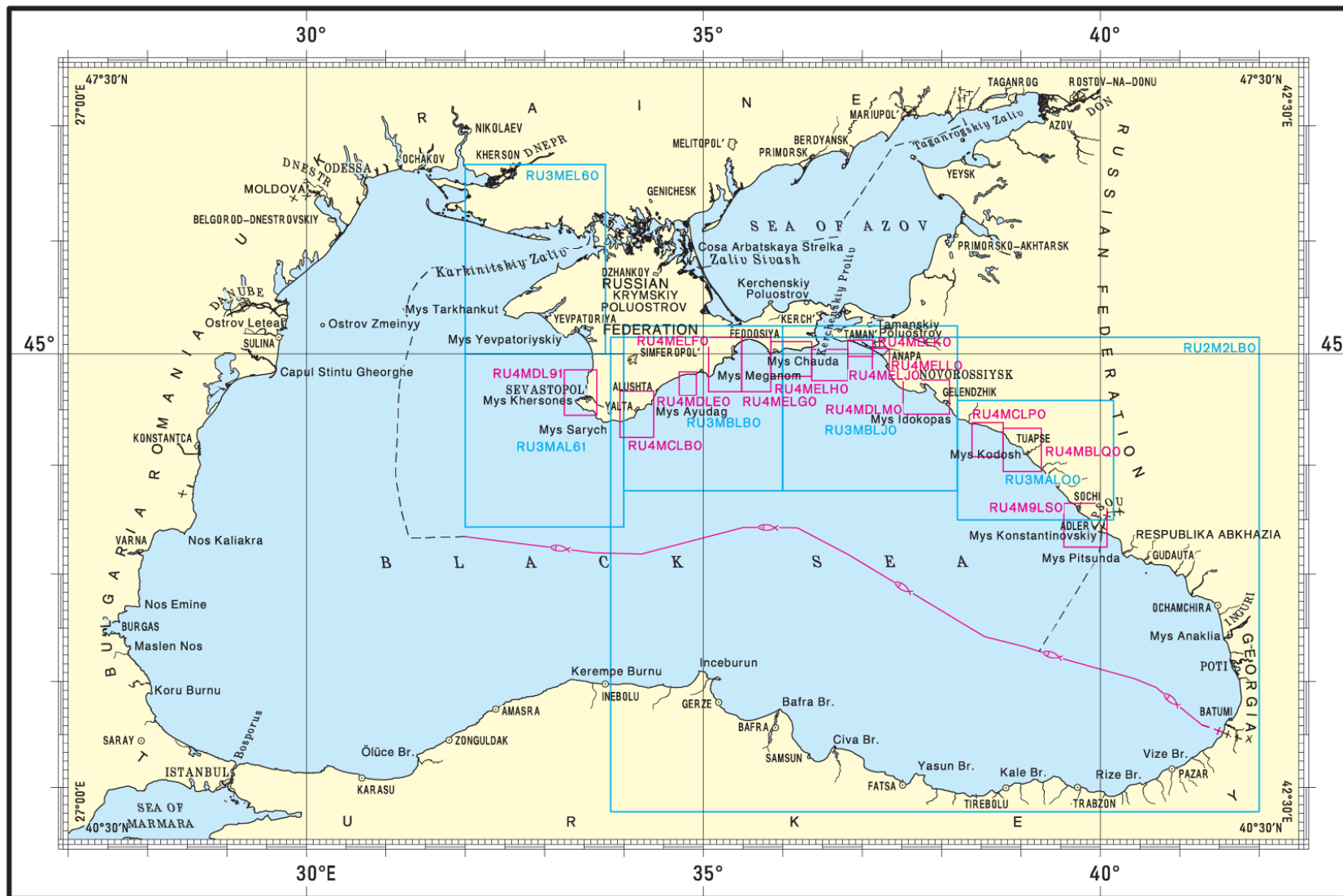


Fig. 8

The scheme of electronic navigational charts

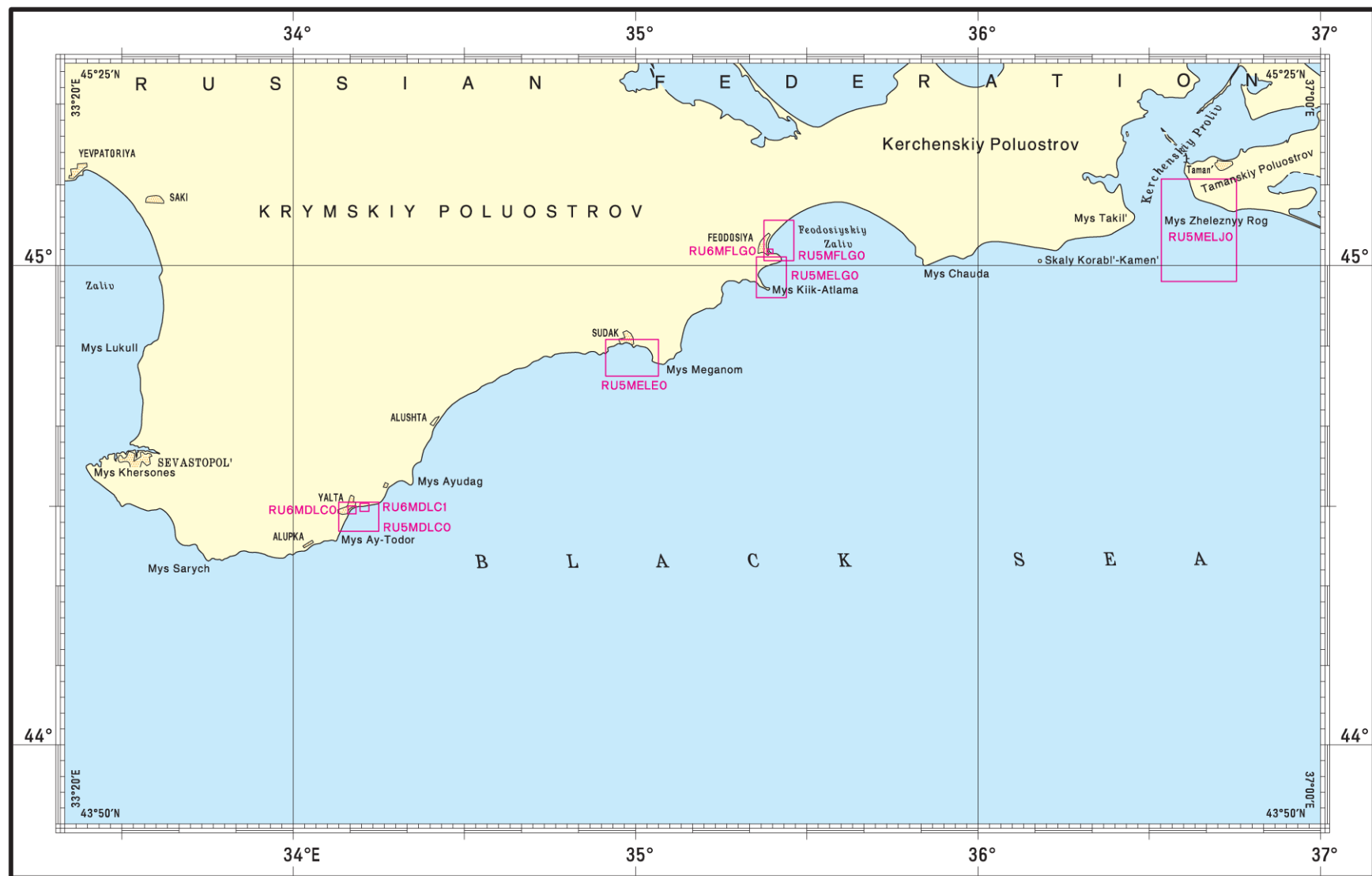


Fig.9

The scheme of electronic navigational charts

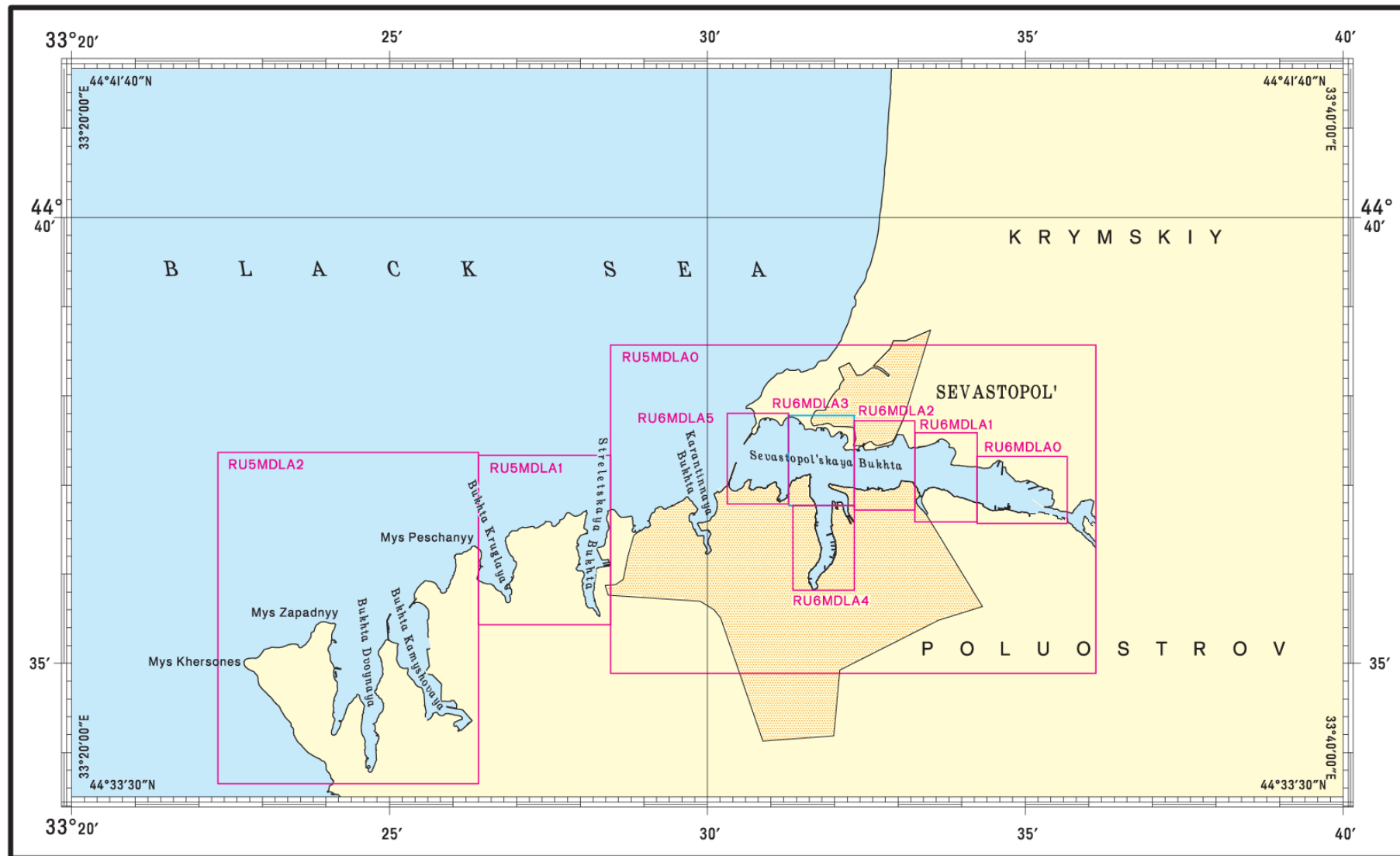


Fig.10

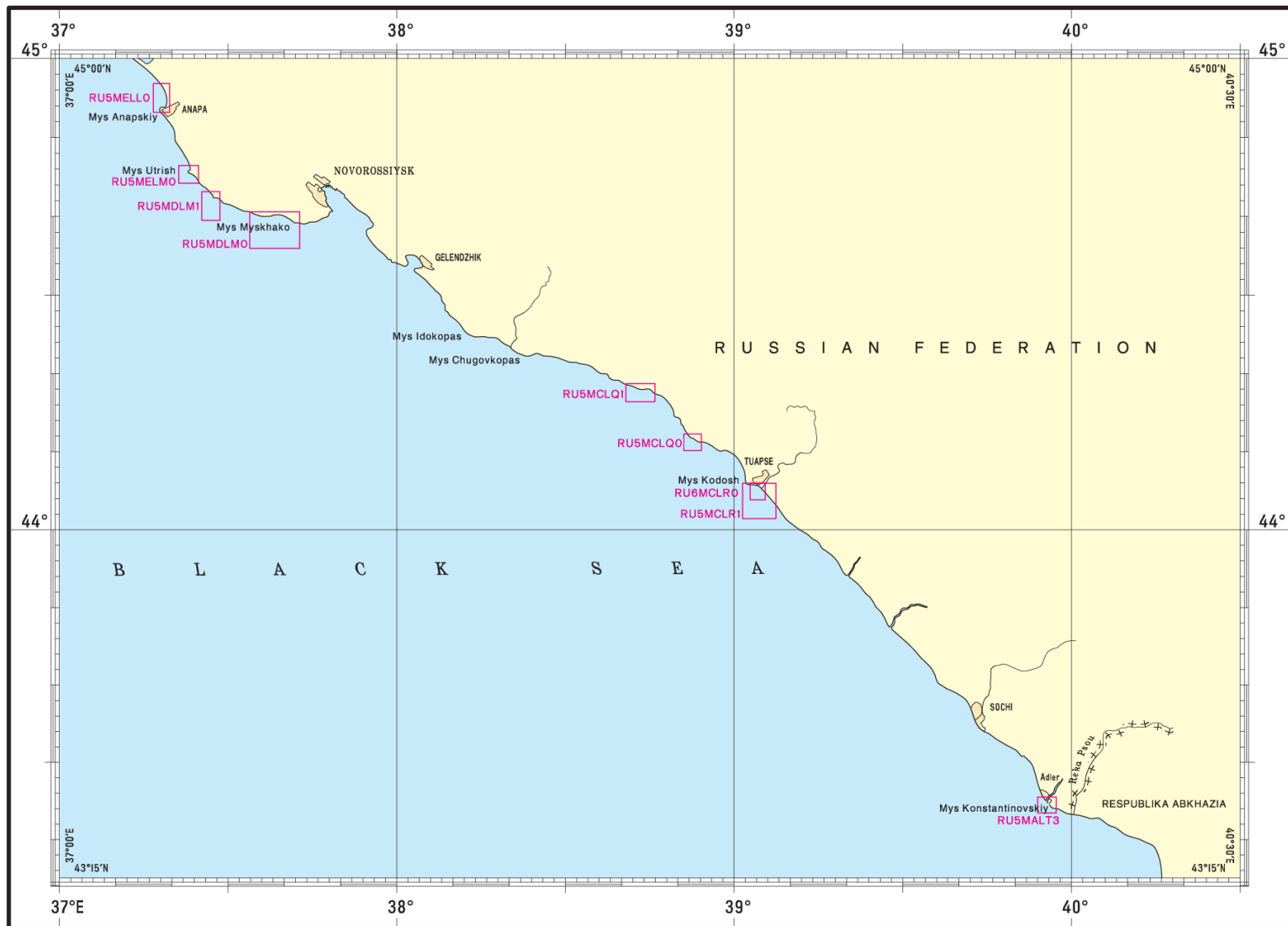


Fig.11

3.2. ENC's distribution method

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

3.3. Raster navigational charts(RNC's)

The DNO does not distribute RNC's.

3.4. The list of international charts (INT charts).

Table3

The list of INT charts

| № | Cell № | Admiralty № | Name (Area) | Scale | Year of edition |
|------------------|---------------|--------------------|---|--------------|------------------------|
| Black Sea | | | | | |
| 1 | 3808 | 32174 | Black Sea South-east part Port Ochamchira to Port Tirebolu | 1:300000 | 2019 |

The scheme of INT charts

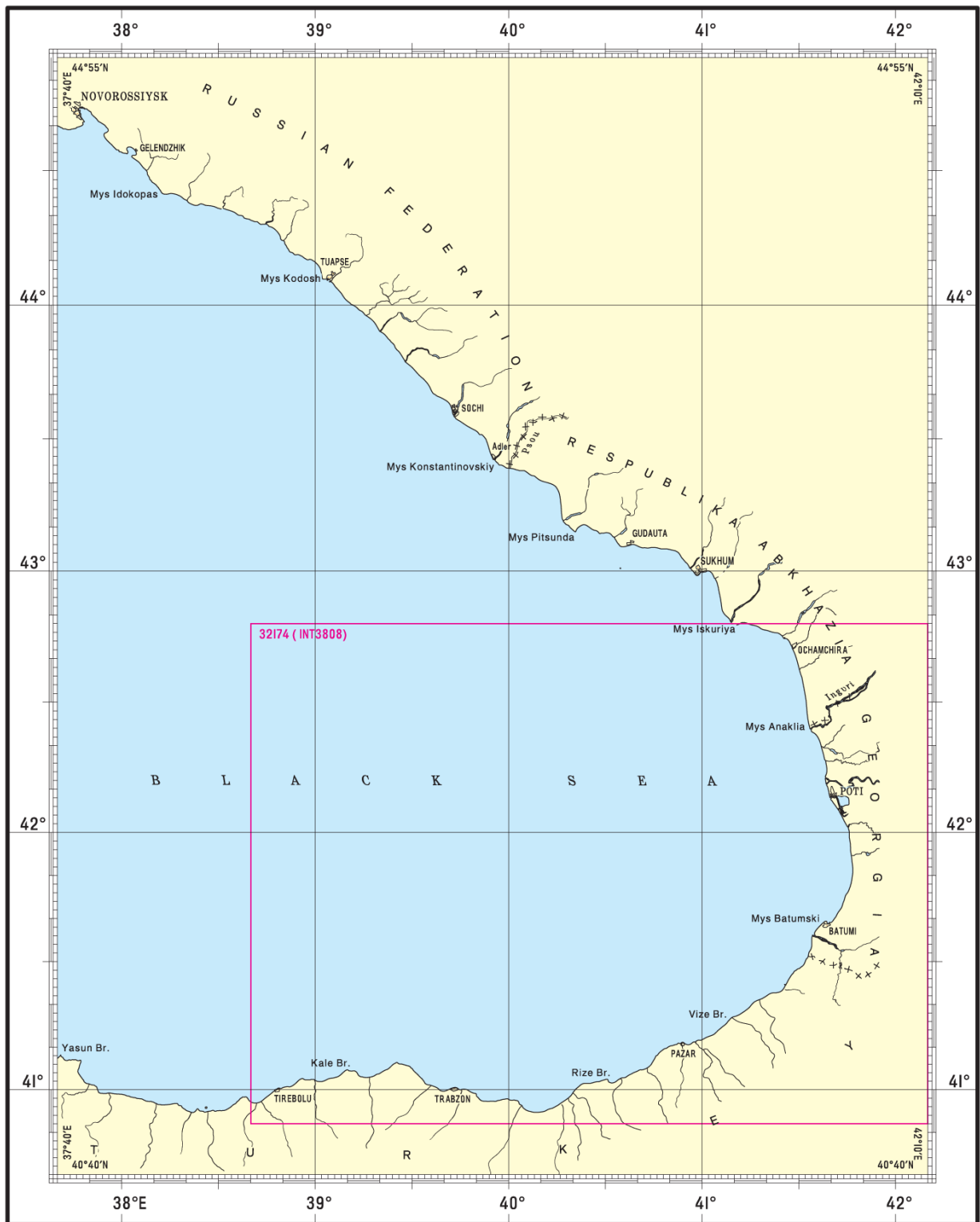


Fig.12

3.5. National paper charts

There are 575 nautical charts issued by the DNO on the water areas of the Black Sea and the Mediterranean Sea. The Scale row is shown in the Table 4. The collection is being updated using corrections and re-issues of the charts as new hydrographic data become available.

Electronic versions of releases of Notices to mariners and Bulletins of navigation warnings in a format pdf are published on the official website of the Ministry of Defence of the Russian Federation:

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

Table4

| Scale | National paper charts | INT charts | Σ |
|--------------------------|-----------------------|------------|----------|
| Black Sea | | | |
| 1:1 250 000 | 1 | | 1 |
| 1:100 000-1:750 000 | 59 | 3 | 62 |
| 1: 25 000-1:100 000 | 45 | 3 | 48 |
| 1: 2 000- 1:25 000 | 43 | 1 | 44 |
| Mediterranean Sea | | | |
| 1:1000 000-1:2 000 000 | 12 | | 12 |
| 1:100 000 – 1: 500 000 | 197 | | 197 |
| 1: 25 000-1:100 000 | 118 | | 118 |
| 1:7 500-1:25 000 | 93 | | 93 |
| Σ | 568 | 7 | 575 |

Table5

The list of the national paper charts

| № | Admiralty № | Name (Area) | Scale | Year of edition |
|--|----------------|--|------------|--------------------|
| Black Sea and Mediterranean Sea | | | | |
| 1. | 31008 | Western part of Black Sea | 1: 750 000 | 2017 |
| 2. | 31010 | Black Sea North-West part Port Sevastopol' to Port Constanța | 1:500 000 | 2017 |
| 3. | 31011 | Black Sea Coast of Russia Sevastopol to Novorossiysk | 1: 500 000 | 2017 |
| 4. | 31014 | Black Sea South-West part Port Amasra to Port Constanța | 1: 500 000 | 2018 |
| 5. | 31018 | Mediterranean Sea Eastern part Island Crete to Antaliya Bay | 1: 500 000 | 2017 |
| 6. | 31026 | Mediterranean Sea Central part Strait of Tunisia | 1: 500 000 | 2018 |
| 7. | 32100 | Black Sea West Coast Odessa to Brațul Sulina | 1: 200 000 | 2018 |
| 8. | 32101 | Black Sea North-West Coast Odessa to Zheleznyy Port | 1: 200 000 | 2019 |
| 9. | 32109 | Black Sea South-East Coast Port Potito Port Trabzon | 1: 200 000 | 2018 |
| 10. | 32200 | Sea of Marmara | 1: 200 000 | 2018 |
| 11. | 32201 | Aegean Sea North-East Coast Port Alexandroupolis to Nísos Lésvos and Dardanelles | 1: 200 000 | 2018 |
| 12. | 32202 | Aegean Sea Northern part Dardanelles to Nísos Skyros | 1: 200 000 | 2017 |
| 13. | 32221 | Mediterranean Sea Coast of Turkey Kadirga (Marmaris) Burun to Yardimci Burun | 1: 200 000 | 2017 |
| 14. | 32223 | Mediterranean Sea Coast of Turkey and Cyprus Antalya Korfezi to Incekum Burnu and Northern part of Cyprus | 1: 200 000 | 2018 |
| 15. | 32227 | Mediterranean Sea Eastern part Port Tripoli to Port Haifa | 1: 200 000 | 2017 |
| 16. | 32240 | Mediterranean Sea Coast of Libya Ra's Al Barg to port Tripoli | 1: 200 000 | 2019 |

| | | | | |
|-----|-------|--|------------|------|
| 17. | 32305 | Adriatic Sea Coast of Italy Peschici to San Benedetto del Tronto | 1: 200 000 | 2018 |
| 18. | 32307 | Adriatic Sea Coast Croatia Island Kornat to Cape Kamenyak | 1: 200 000 | 2017 |
| 19. | 32309 | Adriatic Sea Gulf of Venice | 1: 200 000 | 2018 |
| 20. | 32314 | Straite of Tunisia Central part Malta Channel | 1: 200 000 | 2019 |
| 21. | 32325 | Mediterranien SeaCoast of Italy Island Elba to Genova | 1: 200 000 | 2018 |
| 22. | 32330 | Mediterranean Sea Coast of Tunisia Cape et Tib (Cap Bon) to Bizerte | 1: 200 000 | 2019 |
| 23. | 32338 | Mediterranean Sea Strait of Gibraltar and Western part of the Alboran Sea | 1: 200 000 | 2019 |
| 24. | 32361 | Mediterranean Sea Islas Baleares Islade Mallorca to Isla de Ibiza | 1: 200 000 | 2017 |
| 25. | 33107 | Black Sea Coast of Russia Sevastopol'to Yalta | 1: 100 000 | 2018 |
| 26. | 33108 | Black Sea Coast of Russia Yaltato Mys Meganom | 1: 100 000 | 2017 |
| 27. | 33111 | Black Sea Coast of Russia Approaches to Kerchenskiy Proliv | 1: 100 000 | 2018 |
| 28. | 33201 | Sea of Marmara Eastern part | 1: 100 000 | 2017 |
| 29. | 33216 | Aegean Sea Eastern part Steno Mytilini | 1: 100 000 | 2017 |
| 30. | 34209 | Mediterranean Sea and Cyprus Larnaca and Famagusta Bays | 1: 100 000 | 2018 |
| 31. | 34251 | Mediterranian Sea Coast of Libya Cape Tadjura toSabrata Bay | 1: 100 000 | 2018 |
| 32. | 35105 | Black Sea Coast of Ukraine Approaches to Ports Odessa, Chernomorsk and Yuzhnyy | 1: 50 000 | 2018 |
| 33. | 35107 | Black Sea Coast of Ukraine Port Yuzhnyy and approaches | 1: 25 000 | 2018 |
| 34. | 35112 | Black Sea Coast of Ukraine Approaches to Ports Odessa, Chernomorsk and Yuzhnyy | 1: 75 000 | 2018 |
| 35. | 35120 | Black Sea Coast of Russia Mys Lukull to Mys Fiolent | 1: 50 000 | 2018 |
| 36. | 35131 | Black Sea Approaches to Kerchenskiy Proliv | 1: 50 000 | 2017 |
| 37. | 35201 | Marmara Denizi Coast of Turkey | 1: 50 000 | 2017 |

| | | | | |
|-----|-------|--|-------------------------|------|
| | | Approaches to Istanbul Boğazi | | |
| 38. | 35212 | Marmara Denizi Coast of Turkey Nothern part of Çanakkale Boğazi | 1: 75 000 | 2017 |
| 39. | 35213 | Sea of Marmara Southern part of Dardanelles | 1: 50 000 | 2017 |
| 40. | 35358 | Mediterranien Sea Coast of Italy Nothern part of Stretta di Messina | 1: 30 000 | 2018 |
| 41. | 35397 | Mediterranien Sea Coast of Italy Port Savona to Mele Cape | 1: 50 000 | 2018 |
| 42. | 36127 | Black Sea Coast of Turkey Approaches to Istanbul Boğazi | 1: 50 000 | 2018 |
| 43. | 36315 | Western part of Mediterranien Sea Port D'Alger and approaches | 1: 10 000 1: 50 000 | 2019 |
| 44. | 36365 | Tyrrhenian Sea Island Corsica Port Bastia to Anielo Cape | 1: 50 000 | 2018 |
| 45. | 38121 | Black Sea Coast of Russia Balaklavskaya Bukhta | 1:3 000 | 2018 |
| 46. | 38166 | Black Sea Coast of Russia Mys Panagiya to Yantarnyy lighthouse | 1: 25 000 | 2018 |
| 47. | 38178 | Black Sea Coast of Russia Adler harbour | 1: 5 000 | 2018 |
| 48. | 38356 | Ionian Sea Coast of Italy Porto Di Taranto | 1: 12 500- 1: 25 000 | 2018 |
| 49. | 39219 | Mediterranien Sea Eastern part Ports of Cyprus | 1: 10 000 1: 25 000 | 2017 |
| 50. | 39328 | Mediterranien Sea Spanish Coast Port of Tanger and approaches | 1: 5 000 - 1: 15 000 | 2018 |

The scheme of national paper charts

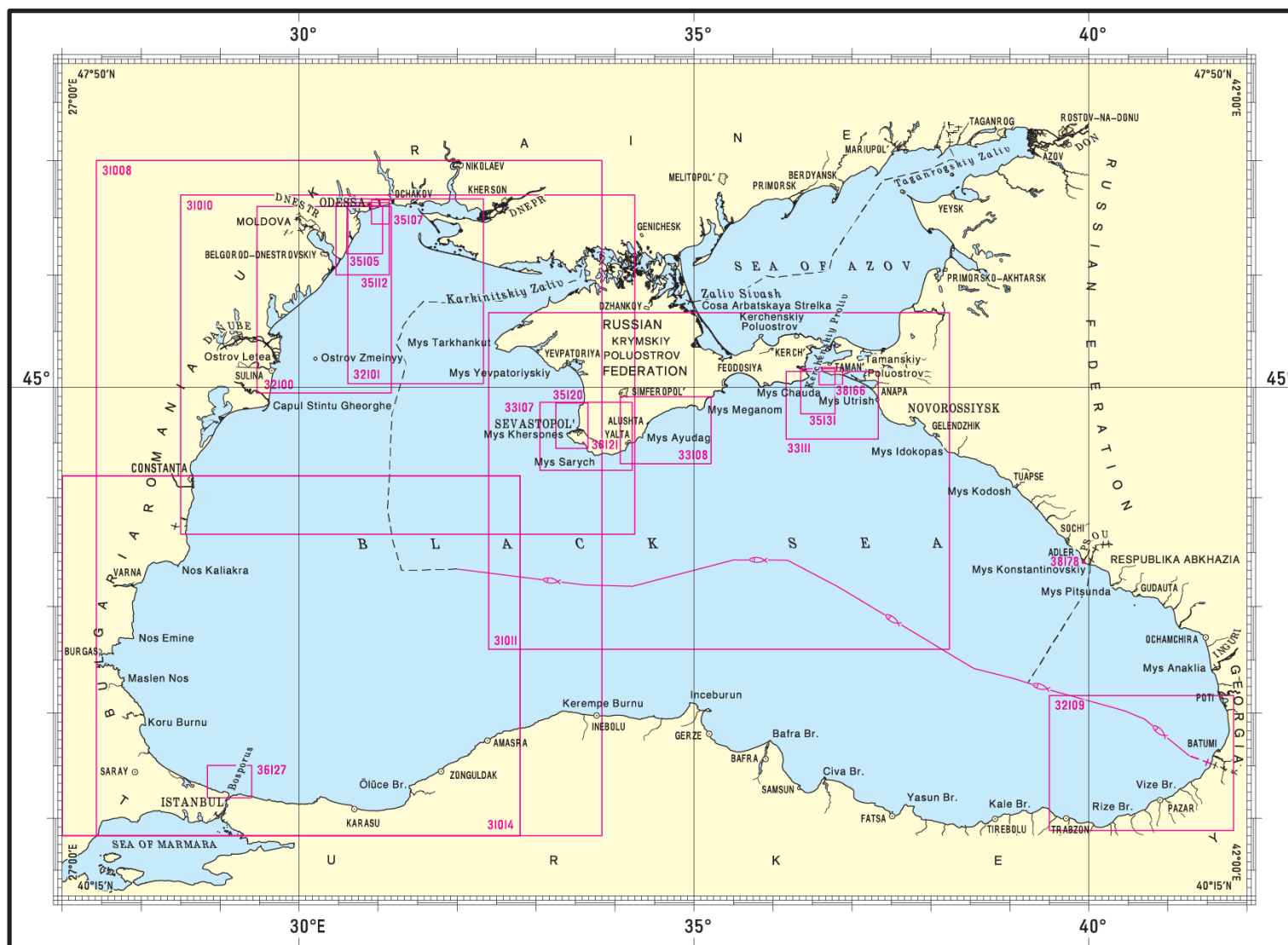


Fig. 13

A map of the Mediterranean Sea and surrounding regions, including parts of Europe, North Africa, and the Middle East. The map is overlaid with a grid showing latitude (30°N to 49°N) and longitude (0°W to 30°E). Various locations are marked with pink boxes and numbers, likely indicating specific points of interest or data collection sites. The locations and their corresponding numbers are as follows:

- 32309 (Trieste)
- 32307 (Trieste)
- 35397 (Genova)
- 32325 (Genova)
- 36365 (Genova)
- 32305 (Trieste)
- 38356 (Napoli)
- 32338 (Barcelona)
- 39398 (Barcelona)
- 32361 (Barcelona)
- 36315 (Algers)
- 32330 (Tunis)
- 31026 (Tunis)
- 32334 (Sicilia)
- 33358 (Sicilia)
- 34251 (Tarabulus)
- 32240 (Tarabulus)
- 32201 (Istanbul)
- 32212 (Istanbul)
- 32200 (Istanbul)
- 32213 (Istanbul)
- 32202 (Istanbul)
- 33216 (Istanbul)
- 32221 (Nisos Rodhos)
- 32223 (Cyprus)
- 34209 (Cyprus)
- 39219 (Beirut)
- 32227 (Beirut)
- 31018 (Nisos Kriti)

Fig. 14

3.6. System of the printing the charts on-demand

Beginning from 2011 the paper nautical charts are being published with the Print-on-Demand Charts System.

The present day database of Print-on-Demand nautical charts contains 4053 charts.

Print-On-Demand Charts System Scheme

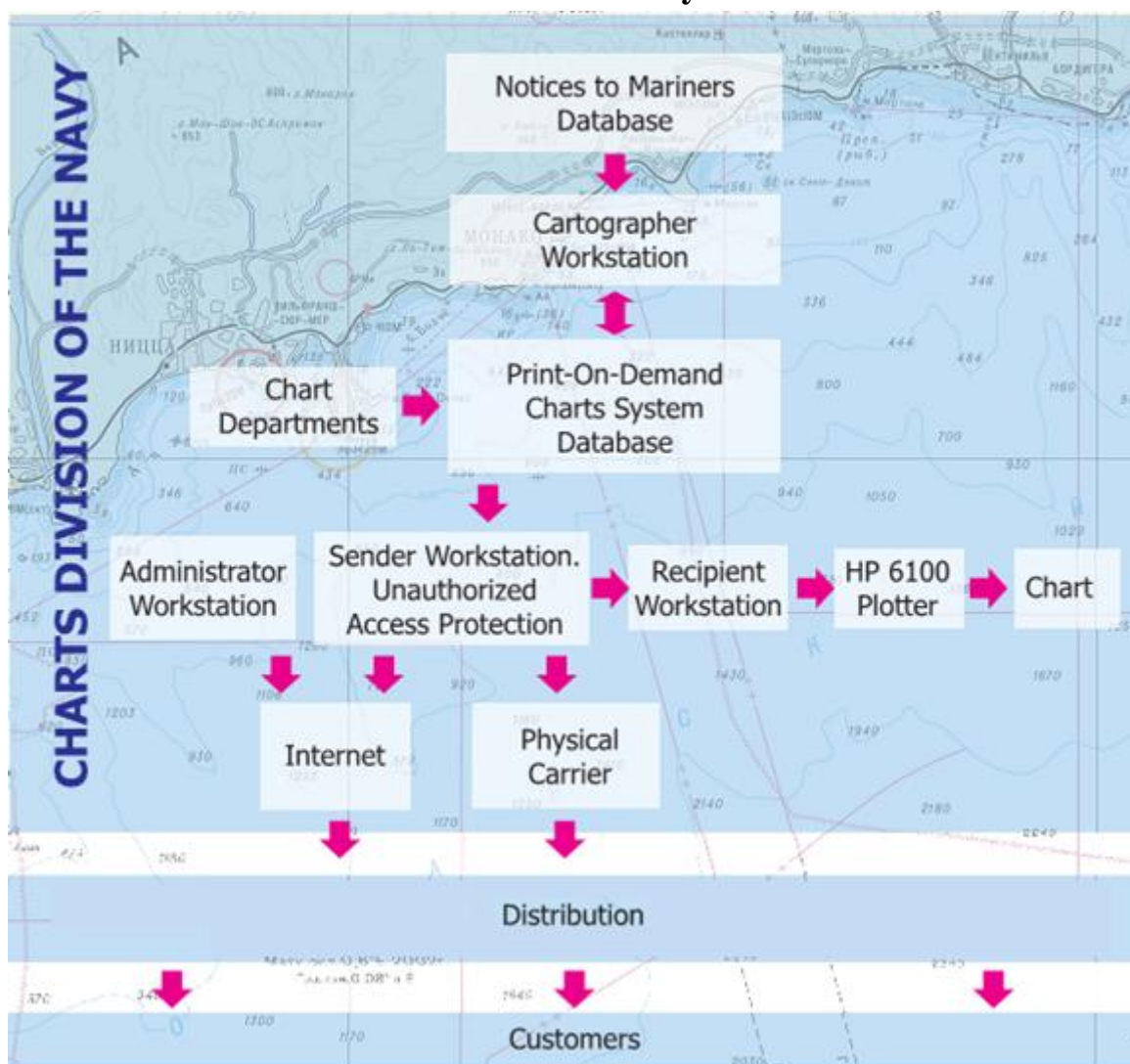


Fig. 15

4. New publications and updates

4.1. New publications

Table 6

| № | Admiralty № | Name | Year of edition |
|----------|------------------------|---|----------------------------|
| 1. | 1248 | Sailing directions of the Ionian Sea and Island of Sicily | 2018 |
| 2. | 1249 | Sailing directions of the Adriatic Sea | 2018 |
| 3. | 2217 | Lights and signs of the Black Sea and Sea of Azov | 2017 |

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

The Hydrographic Office of the Russian Black Sea region is authorized for disseminating the navigation warnings in the coastal areas of the Black Sea and Sea of Azov within the Russian national zone of responsibility.

The Russian Federation provides providing navigation information on the coastal region of Coastal Warnings Novorossiysk (northeast part of the Black Sea and southeast part of the Sea of Azov).

Transfer of navigation information is carried out by broadcast of Coastal Warnings: CW Area Novorossiysk VHF and SV radio stations on sea areas A1 and A2, by station NAVTEX Novorossiysk, and by the regional coordinator NAVAREA III (Spain) in the International network of safety.

Interaction with Hydrographic office of Ukraine concerning distribution of maritime safety information in the region is absent. For providing seafarers of maritime safety information, to water areas to the west from the Krymskiy Poluostrov and northwest part of the Sea of Azov, data go to the coordinator of NAVAREA III with the subsequent readdressing to Hydrographic office of Ukraine with the announcement of the corresponding Warning of NAVAREA III and Coastal Warnings Odessa or Berdyansk.

The area of the announcement of the Russian Coastal Warnings and NAVTEX station

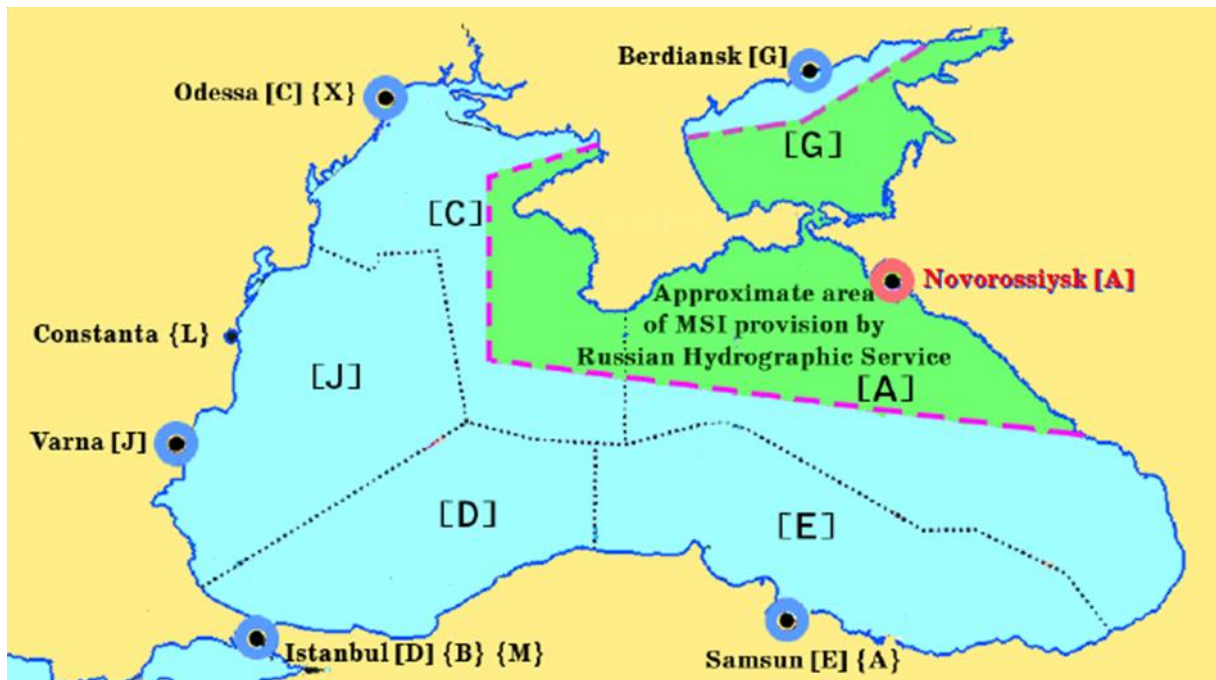


Table7

Fig. 16

| Russian NAVTEX station in the Black Sea | | | | | |
|--|---------|---------|--------|---------|---|
| Novorossiysk | 44°36'N | 37°58'E | 300 M | 518 kHz | A |
| Number of Announced Russian Coastal Warnings | | | | | |
| CW Area | 2016г. | | 2017г. | 2018г. | |
| Novorossiysk | 765 | | 695 | 563 | |

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.

6.1. Latest updates

S-55 - the special publication IHO«The status of hydrographical surveys and nautical cartography around the world».

The water area of the Russian Federation in the Black Sea – 138780sq. km:

Depths< 200 m – 30640sq. km;

Depths> 200 m – 108140sq. km.

Table8

Survey coverage

| Depth Range | The areas which are enough investigated | The areas demanding repeated survey | Areas which were never investigated systematically |
|--------------------|--|--|---|
| Depths< 200 m | 90,0% | 10,0 % | - |
| Depths > 200 m | 99,6% | 0,4 % | - |

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

(Notices to Mariners are available in English)

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