

**BULGARIAN NAVY  
HYDROGRAPHIC SERVICE**



**15<sup>th</sup> Meeting of Black and Azov Sea Working Group (BASWG)**

**NATIAONAL REPORT OF BULGARIA**

**11 May 2021**

# NATIONAL REPORT

## BULGARIAN NAVY HYDROGRAPHIC SERVICE

Period 2018-2021

### MAIN POINTS

1. Bulgarian Navy Hydrographic service
2. Hydrography
3. Cartography
4. Maritime Safety Information
5. Hydrology
6. Meteorology
7. Aids to Navigation
8. Cooperatives
9. Others

#### 1. BULGARIAN NAVY HYDROGRAPHIC SERVICE.

1.1. BNHS has 2 hydrographic survey boats, 100 tons each, and 1 survey boat 5.5 m, 10 hp.

1.2. BNHS is in a planning process for modernization of its production and post processing software and hardware.

#### 2. HYDROGRAPHY.

2.1. 2019 – two partial hydrographic surveys of Varnenski zaliv, scale 1:10 000 and 1 survey at scale 1:5000 and one survey at scale 1:2000.

2.2. 2020 – one hydrographic survey of Varnenski zaliv, scale 1:10 000 and one at scale 1:25000.

2.3. 2021 – Continue working on systematic surveying of the Bulgarian sea areas with emphasis on territorial waters for preparing approach and coastal nautical charts.

#### 3. CARTOGRAPHY.

3.1. 2019 – 2021 – Continue cartographic post processing work of 1:100 000 scale' charts is established of Bulgarian coast line.

3.2. 2019 – 2021 – Miscellaneous special type charts have done in a very small number of print copies – Naval exercise purposes only.

3.3. 2020 – Cartographic works in progress - some of the latest port chart series, scale 1:10 000 and 1:25 000 is established, 1942 Datum to WGS 84 Datum.

3.4. 2021 - Cartographic works in progress for updating and publishing new editions of “Aids to Navigation on Bulgaria Black Sea Coastline” and „Sailing Directions”.

#### 4. MARITIME SAFETY INFORMATION.

4.1. 2019 – 457 Radio navigational warnings (RNW) issued, app. 1/3 for a Naval exercises, all via Varna Radio on NAVTEX 518 kHz, web based in Bulgarian & English; 20 via web of Armada (Spain) for the Naval exercises only (Gunnery, Missal firing, etc.).

4.2. 2019 – 16 Notices to Mariners (NtMs) issued in Bulgarian and English versions in 4 booklets, sent as a circular via e-mails to the Black sea region states and to Russian Federation, Germany and UKHO, to national addressees in Bulgarian as well.

4.3. 2020 – 509 RNW issued, 9 via web of Armada (Spain) for the Naval exercises only (Gunnery, Missal firing, etc.).

4.4. 2020 – 8 NtMs issued, in Bulgarian and English versions in 3 booklets, sent as a circular via e-mails to the Black sea region states and to Russian Federation, Germany and UKHO, to national addressees in Bulgarian as well.

4.5. 2021 – until 21 April 158 RNW are issued.

4.6. In the recent years BNHS works very well and in a good manner with the other national institutions in a MSI subject, such as Maritime administrations, Port authorities, Institute of Oceanography (BAS).

#### 5. HYDROLOGY.

Hydrology marine expeditions have been done as follows:

5.1. 2019 – March, April, June, September & November.

5.2. 2020 – February, June, August & November.

5.3. 2021 – until 01 June – in February, in April and two more in cooperation with Institute of Oceanography (BAS). Five more expeditions are to be conducted until the end of the year.

#### 6. METEOROLOGY – only for Navy purposes.

6.1. 2019 daily prognosis – 24 h, 3-day, 5-day, monthly.

6.2. 2020 daily prognosis – 24 h, 3-day, 5-day, monthly.

6.3. 2021 daily prognosis – 24 h, 3-day, 5-day, monthly.

6.4. Delivered to the addressees by the established channels.

#### 7. AIDS to NAVIGATION.

7.1. Main Lights, Navigation Lights – 2019, 2020, 2021 – regular technical maintenance.

7.2. Floating aids - 2019, 2020 and 2021 – regular technical maintenance.

7.3. Unlit aids - 2019, 2020, 2021 – regular technical maintenance.

7.4. DGPS – Kavarna – regular maintenance. A modernization is planned.

7.5. Review of the efficiency of the AtoN mark system along the coast.

7.6. Planning of a modernization of the light sources and the equipment.

## 8. COOPERATIVES.

8.1. 2021 - Ministry of transportation (Marine administration, VTS, Varna Radio) – MSI.

8.2. 2019 - 2021 – MoD – Geospatial cooperation, normative guiding documents.

8.3. 2019 - 2021 – BAS – Institute of Oceanology – Varna. Nine hydrological marine expeditions with cooperation with BAS - more than 70 day at sea.

8.4. 2021 – Taking part in EMSA audit of Executive Directorate Maritime Administration according to III Code and SOLAS.

## 9. OTHERS.

9.1. 2020, 02 December - 137 Anniversary of the Bulgarian Navy Hydrographic Service.

9.2. 2019 February-April - Pre-audit examination of the Hydrographic Service for Convention compliancy.

9.3. 2022 – Taking part in audit examination of the Hydrographic Service for Convention compliancy according to III Code conducted by IMO.