



# **NATIONAL REPORT OF BULGARIA**

## **NAVY HYDROGRAPHIC SERVICE**

21<sup>st</sup> MBSHC 11 – 13 June 2019, Cadiz, Spain

Period 2017-2018, till 01 June 2019.

### **MAIN POINTS**

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

#### **1. BULGARIAN NAVY HYDROGRAPHIC SERVICE.**

1.1. The Bulgarian Navy Hydrographic service has a new head from December 2016 – Captain (N) Ventseslav Gospodinov NIKOLOV.

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

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

#### **2. HYDROGRAPHY.**

2.1. 2017 – passage survey on shoal “Koketrays”, scale 1:10 000.

2.2. 2018 – 3 partial hydrographic surveys of Varnenski zaliv have performed, scale 1:10 000; partial hydrographic survey of Varnensko ezero (shoals), scale 1:5 000; 1 port hydrographic surveys of Naval station, scale 1:2 000.

2.3. 2019 – 1 partial hydrographic surveys of Varnenski zaliv; 1 port hydrographic surveys of Naval station, scale 1:2 000; single beam plus SSS survey of wrecks at part of TSS, E of Bay of Varna.

### 3. CARTOGRAPHY.

3.1. 2017 – 2019 – Cartographic post processing of 1:100 000 scale' charts is established of Bulgarian coast line. 2 charts of the “North region” are in the end of the production line, 1 chart of the “Southern region” is in the end of the production line.

3.2. 2018 – Cartographic works in progress of the last of the port chart series scale 1:10 000 is established, 1942 Datum to WGS 84 Datum.

3.3. 2017 – 2019 – Miscellaneous special type charts have done in a very small number of print copies – Naval exercise purposes only.

### 4. MARITIME SAFETY INFORMATION.

4.1. 2017 – 429 Radio navigational warnings issued, app. 1/3 for a Naval exercises, all via Varna Radio on NAVTEX 518 kHz, web based in Bulgarian & English; 8 via web of Armada (Spain) for the Naval exercises only (Gunnery, Missal firing, etc.).

4.2. 2017 – 14 NtMs issued, on Bulgarian and English versions in 2 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. 2018 – 467 RNW.

4.4. 2018 – 14 NtMs issued, on Bulgarian and English versions in 2 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. 2019 – 01 June 173 RNW.

4.6. 2019 – 01 June 6 NtM issued, on Bulgarian and English versions in 2 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.

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

4.8. In procedure of MSI - > S-53 type RNW texts in progress.

### 5. HYDROLOGY.

Hydrology marine expeditions have been done as follows:

5.1. 2017 – February, April, May, June, August, October & November.

5.2. 2018 – February, March, April, June, July, September & October.

5.3. 2019 – till 01 June – March, April & May.

6. METEOROLOGY.

- 6.1. 2017 – daily prognosis – 24 h, 3-day, 5-day, monthly.
- 6.2. 2018 – daily prognosis – 24 h, 3-day, 5-day, monthly.
- 6.3. 2019 – 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 - 2017, 2018, 2019 – regular technical maintenance.

7.2. Floating aids - 2017, 2018, 2019 – regular technical maintenance.

7.3. Unlit aids - 2017, 2018, 2019 – regular technical maintenance.

7.4. DGPS – Kavarna – regular maintenance, firmware been updated; 2017 – mounted new receivers' antennas.

7.5. Review of the efficiency of the AtoN mark system along the coast, 2018 moved 1 unlit beacon.

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

8. CERTIFICATES.

8.1. 2018 – September – 1 officer MSI Certified.

9. NAVY ACTIVITIES

9.1. 2019 - Installation & test of ENC in on-board WECDIS Systems.

9.2. 2019 – by staged training of personnel of MSI standard & aspects of NAVTEX & Safety NET Systems.

10. COOPERATIVES.

10.1. 2018 December - Ministry of transportation (Marine administration, VTS, Varna Radio) – MSI.

10.2. 2018, 2019 – MoD – Geospatial cooperation, Normative guiding documents.

10.3. 2018, 2019 – BAS – Institute of Oceanology – Varna.

11. OTHERS.

11.1. 2018 – Bulgarian Navy Hydrographic service – become a full member of IHO; New set of Geodetic software has been obtained.

11.2. 2018 – 02 December – 135<sup>th</sup> Anniversary of Bulgarian Navy Hydrographic service.

11.3. 2018 – December & 2019 - February to April – taking part in a preliminary audit of Executive Directorate Maritime Administration for Conventions' compliancy.

*P.S. Many thanks to Adm. (R) Mustafa Iptes, IHO Director for all the efforts and cooperation to the Hydrographic service.*

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Head of Navy Hydrographic service*