HELLENIC NAVY HYDROGRAPHIC SERVICE



21st Meeting of Mediterranean and Black Seas Hydrographic Commission (MBSHC)

NATIONAL REPORT OF GREECE

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1. Hydrographic Service:

General

The Hellenic Navy Hydrographic Service (HNHS) is the governmental body of the Hellenic Republic responsible for conducting hydrographic and oceanographic surveys for the benefit of International and National Navigation as well as for the operational needs of the Hellenic Navy. The primary purpose of conducting hydrographic surveys is to produce and update nautical charts and other nautical publications aiming at the safety of life at sea and the protection of the environment around Greece.

2. Surveys

2.1 Coverage of new surveys

During the period 2017-2018, an extensive systematic program of surveys was conducted. The three hydrographic vessels of the HNHS had been working for 416 days on surveying operations. A total area of 2416.49 km² has been surveyed, covering national and international waters in the Aegean and Ionian seas. The main 2017-18 operations are depicted in Annex A.

3. New charts and updates

During the last two years the cartographic program of HNHS was further continued with the production of new ENCs, updates and national and international paper charts. More specifically the HNHS cartographic production status is the following:

3.1 ENCs

To date 301 ENCs have been released. The ENCs are updated on a monthly basis. The present status of the HNHS ENC production program is shown in the following table:

Scale Category	Released ENCs	Target	Coverage %
1. Overview	1	1	100%
2. General	2	2	100%
3. Coastal	83	83	100%
4. Approach	24	70	34%
5. Harbour	39	72	54%
6. Berthing	152	207	73%
	301	435	69%

Charts presenting the Usage Bands coverage are attached at Annex B.

3.1.1. ENC distribution method

HNHS distributes its ENCs via IC-ENC where is a member.

3.3 National paper charts

MAP#	CHART#	INT#	TITLE	AREA	SCALE 1:
0.4.0.20	212/2		Aproaches to Igoumenitsa Bay and Harbour	Ionio Sea	25000
212/2	212/2A		Igoumenitsa Channel	Ionio Sea	10000
	212/2B	Igoumenitsa Harbour		Ionio Sea	7500
323/2	323/2		Approaches and Harbour of Myrina Limnos I.		25000
	323/2A		Myrina Harbour	Limnos I.	4000
	412/10		Approaches - Lavrio Harbour and Marina	Lavrio	25000
412/10	412/10 412/10A Lavrio Harbour and Marina		Lavrio	5000	
	412/10B		Ag. Nikolaos Bay - PPC S.A. Installation	Lavrio	5000
433	433		Kriti Island - West Central Part	Kriti I.	100000

The following paper charts have been published. The datum in all charts is WGS84.

A diagram of the new paper charts is attached at Annex C.

4. New publications & updates

4.1 New publications

Maritime Buoyage System (IALA) 3rd Ed. 2017 List of Lights of Hellenic Coasts Ed. 2017 Supplement No 7 for "Greek Pilot vol B' Ed. 2004" Ed. 2017

4.2 Updated publications

Reprint of List of Lights of Hellenic Coasts Ed. 2017

All publications are available at HNHS website <u>www.hnhs.gr</u>, HNHS selling offices or through associated companies/ shops.

5. MSI

5.1 Existing infrastructure for transmission

HNHS acts as the Hellenic NAVTEX Coordinator for the sea areas covering Greek and adjacent seas (which are coordinated by NAVAREA III) and collects all the relevant Maritime Safety Information (MSI) providing accurate information which ships require for their safe navigation. For this purpose elaborates all the relevant navigational, meteorological and other safety and urgent information, in accordance with the standards, organization and procedures of the JOINT IMO/IHO/WMO MANUAL ON MARITIME SAFETY INFORMATION (MSI) drafting the corresponding NAVTEX bulletins. These bulletins are promulgated, on International and National NAVTEX Service using the English

and Greek Languages, by three Hellenic NAVTEX Stations (IRAKLEIO – KERKYRA – LIMNOS), that were duly established since 1986 in accordance with IMO and IHO rules ,guidelines and principles and since then have been operating successfully broadcasting MSI within their respective NAVTEX Service Areas.

Serving the Safety of Navigation, Hellenic NAVTEX coordinator responds immediately to requests of adjacent NAVTEX Coordinators to promulgate MSI messages via the Hellenic NAVTEX Stations in cases of temporary technical problems.

In the last two years (2017 - 2018) a total of 469 Navigational Warnings (NAVHELLEN) were delivered to the NAVAREA III Coordinator for further promulgation.

5.1.1 IRAKLEIO NAVTEX STATION [H] – [Q] – [S]

During its operation in 2017 and 2018 a total of 13140 NAVTEX bulletins have been transmitted, containing 1886 Navigational warnings (NAVWARNS), 4380 Meteorological – Forecasts, 798 Meteorological warnings (GALEWARNS) and 41 Search and Rescue messages (SARWARNS).

5.1.2 KERKYRA NAVTEX STATION [K] – [P]

During its operation in 2017 - 2018 a total of 8760 NAVTEX bulletins have been transmitted, containing 617 Navigational warnings (NAVWARNS), 4380 Meteorological – Forecasts, 660 Meteorological warnings (GALEWARNS) and 10 Search and Rescue messages (SARWARNS).

5.1.3 LIMNOS NAVTEX STATION [L] – [R]

During its operation in 2017 and 2018 a total of 8760 NAVTEX bulletins have been transmitted, containing 918 Navigational warnings (NAVWARNS), 4380 Meteorological – Forecasts, 560 Meteorological warnings (GALEWARNS) and 18 Search and Rescue messages (SARWARNS).

Annex D describes the HELLENIC NAVTEX STATIONS SERVICE AREAS.

6. C-55

2019 update as follows:

1.1 <u>Status of hydrographic survey of all navigable waters, including internal waters, out to the limits of the EEZ</u>: (*Please refer to the guidance given in the introductory text "Analysis of the Status of Surveys"*.)

Survey coverage, where:

A = percentage which is adequately surveyed.

B = percentage which requires re-survey at larger scale or to modern standards.

C = percentage which has never been systematically surveyed.

	А	В	С
Depths < 200m	37	54	9
Depths > 200m	12	59	29

2.1 Status of nautical charting within the limits of the EEZ

Coverage of charts published by your organisation, where:

A = percentage covered by INT series, or a paper chart series meeting the standards in M-4.

B = percentage covered by Raster Navigational Charts (RNCs) meeting the standards in S-61.

C = percentage covered by ENCs meeting the standards in S-57.

Purpose/Scale	А	В	С
Offshore passage/Small	-	-	100
Landfall and Coastal passage/Medium	100	-	100
Approaches and Ports/Large	95	-	54
Percentage of Group A showing depths in metres	100		
Percentage of Group A referenced to a satellite datum			

7. Capacity Building

7.1 Domestic training

HNHS personnel has been trained in various ENC production issues and Quality Control procedures.

7.2 Foreign training

HNHS personnel did not attend any foreign training courses.

7.3 Status of national, bilateral, multilateral or regional development projects with hydrographic component

HNHS has signed bilateral arrangements with the HOs of Bulgaria Cyprus, Georgia, Germany, Italy, Israel, France, Jordan, Korea, Montenegro, Norway, Romania, Russia, Slovenia, Tunisia, UK, Ukraine and USA. Discussions are in progress with Croatia, Romania, Egypt and France.

Since 2014, HNHS has taken part in a consortium consisting of eighteen European HOs, Public Bodies and Institutions to undertake the Coastal Mapping project (MARE/2014/10). The service contract was signed on 26th of June 2015, the relevant portal was opened to the public on 23rd December 2015 and the Final Report was delivered to EASME on 6th of January 2017. After 18 months of maintenance period the project ended at 25th of June 2018.

8. Oceanographic Activities

8.1 General

The mission of the HNHS in the area of Oceanography includes:

- Conducting oceanographic surveys in the Hellenic seas and the Eastern Mediterranean Sea and embodying the results into relevant studies.

- Supporting the Greek Navy and other national defense bodies by providing the required data and information for the tactical exploitation of the marine environment.

- Supplying oceanographic data and conduction of surveys on behalf of third parties both from the private and public sector.

- Prediction of the wave field in Greek waters.

8.2 Activities

- Oceanographic cruises using the HNHS hydrographic/oceanographic vessels for the assessment of the marine environment including the acquisition of physical and geological data along a network of sampling stations designed for the areas of interest to the Hellenic Navy. All data and information gathered is processed and used in order to support naval operations in relation to anti-submarine, mine and amphibious warfare.

- Continuous measurement of sea level with tide gauges in a network of 22 permanent stations, located at several Greek ports around the coastline of Aegean and Ionian Seas. Three stations have been upgraded to output the data in digitized form, in order to be able to transmit in real time. One new station has been established.

- Prediction of the wave field based on the prevailing wind speeds and directions in a specific area in order to provide the Ministry of Mercantile Marine with information to assess the navigational conditions for specific vessel types in different areas.

The HNHS tide gauge network is depicted in Annex E.

9. Other activities

9.1 Participation in IHO Working Groups

HNHS participates in the following IHO Commissions, Committees, Sub-Committees and Working Groups: IRCC, HSSC, MBSHC, HCA, WWNWS, S-124 CG, NCWG, MGIWG, IENWG.

9.2 Disaster prevention

Following the decision of IOC / UNESCO to develop a Regional Tsunami Warning Center (RTWC) at the Northeastern Atlantic, Mediterranean and Connected Seas area, Greece has started working on the creation of a National Tsunami Warning Center (NTWC). A number of National Agencies and Institutions contribute to this effort under the supervision of the Seismological Institute of the National Observatory of Athens.

9.3 Environmental protection

HNHS in cooperation with other national organizations is responsible for the collection of any new mammal observation data in order to update the existed database.

9.4 National SDI

HNHS participates in the national SDI of Greece, which was established in 2010 under the Environmental Ministry, contributing with data of its competence.

10. Conclusions

HNHS invests in people and utilise modern tools to keep its rate of growth steadily ascending for the sake of the safety of Navigation.





















