

# HELLENIC NAVY HYDROGRAPHIC SERVICE



**22<sup>nd</sup> Meeting of Mediterranean and Black Seas Hydrographic Commission (MBSHC)**

## NATIONAL REPORT OF GREECE

**25 - 28 May 2021**

## 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 2019-2020, an extensive systematic program of surveys was conducted. The three hydrographic vessels of the HNHS had been working for 382 days on surveying operations. A total area of 6200 km<sup>2</sup> has been surveyed, covering national and international waters in the Aegean and Ionian seas. The main 2019-20 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 ENC's, updates and national and international paper charts. More specifically the HNHS cartographic production status is the following:

### 3.1 ENC's

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

Scale Category	Released ENC's	Target	Coverage %
1. Overview	1	1	100%
2. General	2	2	100%
3. Coastal	83	83	100%
4. Approach	25	70	35,7%
5. Harbour	40	72	55,5%
6. Berthing	153	207	73,9%
	<b>305</b>	<b>435</b>	70,1%

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

#### 3.1.1. ENC distribution method

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

### 3.3 National paper charts

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

CHART#	INT#	TITLE	SCALE 1:	YEAR
231/2	3497	PÁTRA HARBOUR	7500	2019
222/2		KALAMÁTA HARBOUR AND MARINA	6000	2019
211/3		APPROACHES – HARBOURS ÁMMOS AND AVLÁKI OTHONÓN	5000	2019
212/1	3493	KÉRKYRA HARBOUR AND APPROACHES	10000 5000	2020
40		PATRAIKOS GULF ECHINÁDES Is. – KYLLÍNI TO CAPE PSAROMÝTA - AÍGIO	100000	2020
322/1		APPROACHES - ALEXANDROÚPOLI PORT	20000 6000	2020
332/2		MYTILÍNI HARBOUR	4000	2020
280/1		KAMARIÓTISSA BAY	5000	2020

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

## 4. New publications & updates

### 4.1 New publications

Sailing Directions of Hellenic Coasts (Pilot) vol B' Ed. 2019

### 4.2 Updated publications

Reprint of Sailing Directions of Hellenic Coasts (Pilot) vol A' Ed. 2015"

All publications are available at HNHS website [www.hnhs.gr](http://www.hnhs.gr), 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 (2019 - 2020) a total of 393 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 2019 and 2020 a total of 14548 NAVTEX bulletins have been transmitted, containing 7923 Navigational warnings (NAVWARNS), 5848 Meteorological – Forecasts, 1244 Meteorological warnings (GALEWARNS) and 33 Search and Rescue messages (SARWARNS).

#### **5.1.2 KERKYRA NAVTEX STATION [K] – [P]**

During its operation in 2019 and 2020 a total of 8847 NAVTEX bulletins have been transmitted, containing 3428 Navigational warnings (NAVWARNS), 4392 Meteorological – Forecasts, 1044 Meteorological warnings (GALEWARNS) and 11 Search and Rescue messages (SARWARNS).

#### **5.1.3 LIMNOS NAVTEX STATION [L] – [R]**

During its operation in 2019 and 2020 a total of 9150 NAVTEX bulletins have been transmitted, containing 3800 Navigational warnings (NAVWARNS), 4392 Meteorological – Forecasts, 1044 Meteorological warnings (GALEWARNS) and 14 Search and Rescue messages (SARWARNS).

Annex D describes the HELLENIC NAVTEX STATIONS SERVICE AREAS.

## **6. C-55**

2021 update as follows:

1.1 Status of hydrographic survey of all navigable waters, including internal waters, out to the limits of the EEZ: *(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.

	A	B	C
Depths < 200m	<b>37</b>	<b>54</b>	<b>9</b>
Depths > 200m	<b>12</b>	<b>59</b>	<b>29</b>

## 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 ENC's meeting the standards in S-57.

Purpose/Scale	A	B	C
Offshore passage/Small	-	-	<b>100</b>
Landfall and Coastal passage/Medium	<b>100</b>	-	<b>100</b>
Approaches and Ports/Large	<b>95</b>	-	<b>54</b>
Percentage of Group A showing depths in metres	<b>100</b>		
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.

## 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**

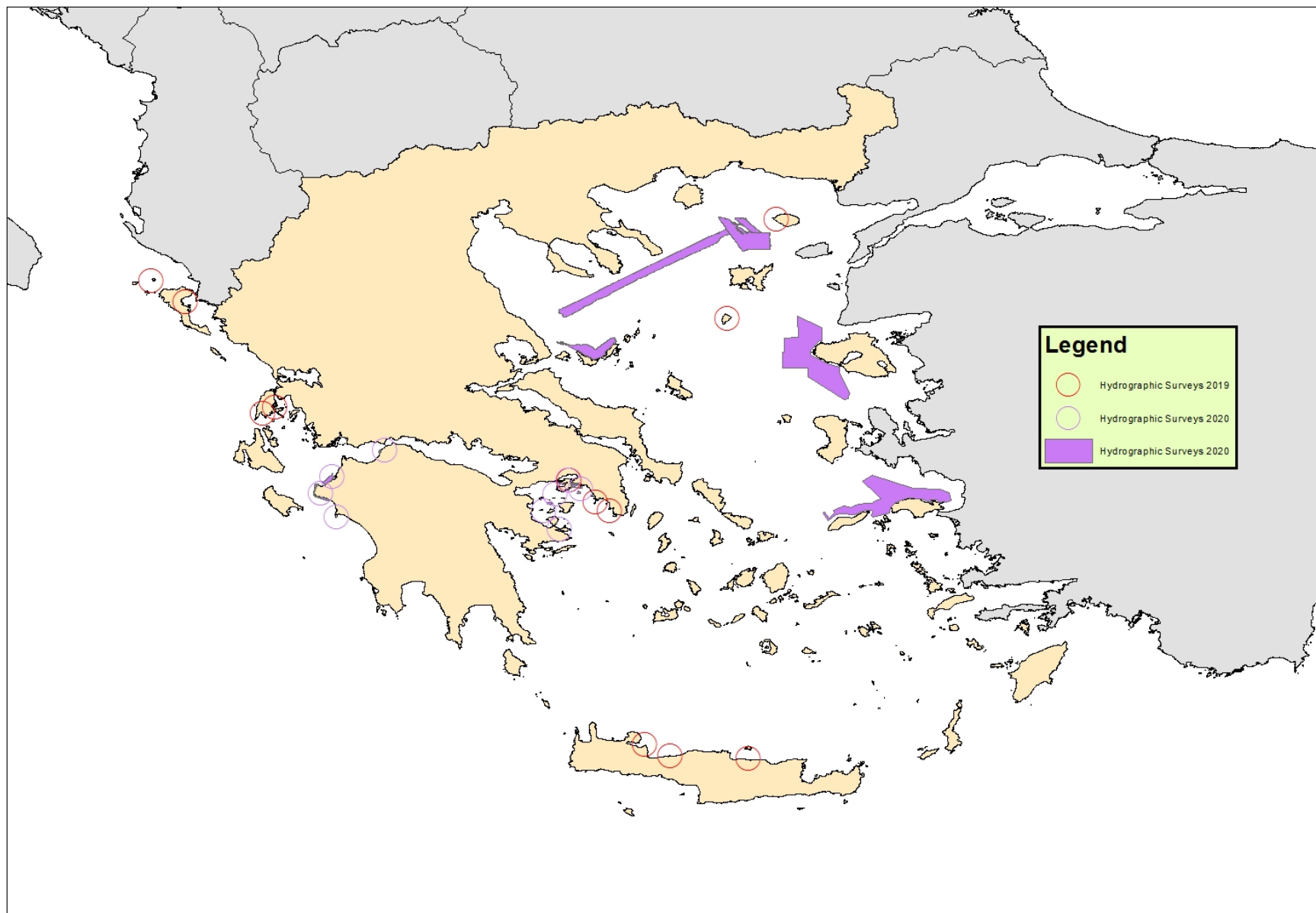
HNHS participates in the national SDI of Greece, which was established in 2010 under the Environmental Ministry, contributing with data of its competence.

### **9.5 International Engagements**

HNHS has taken part in EEZ delimitation between Greece – Italy and Greece – Egypt, as the relative governmental body of the Hellenic Republic in the technical level.

## **10. Conclusions**

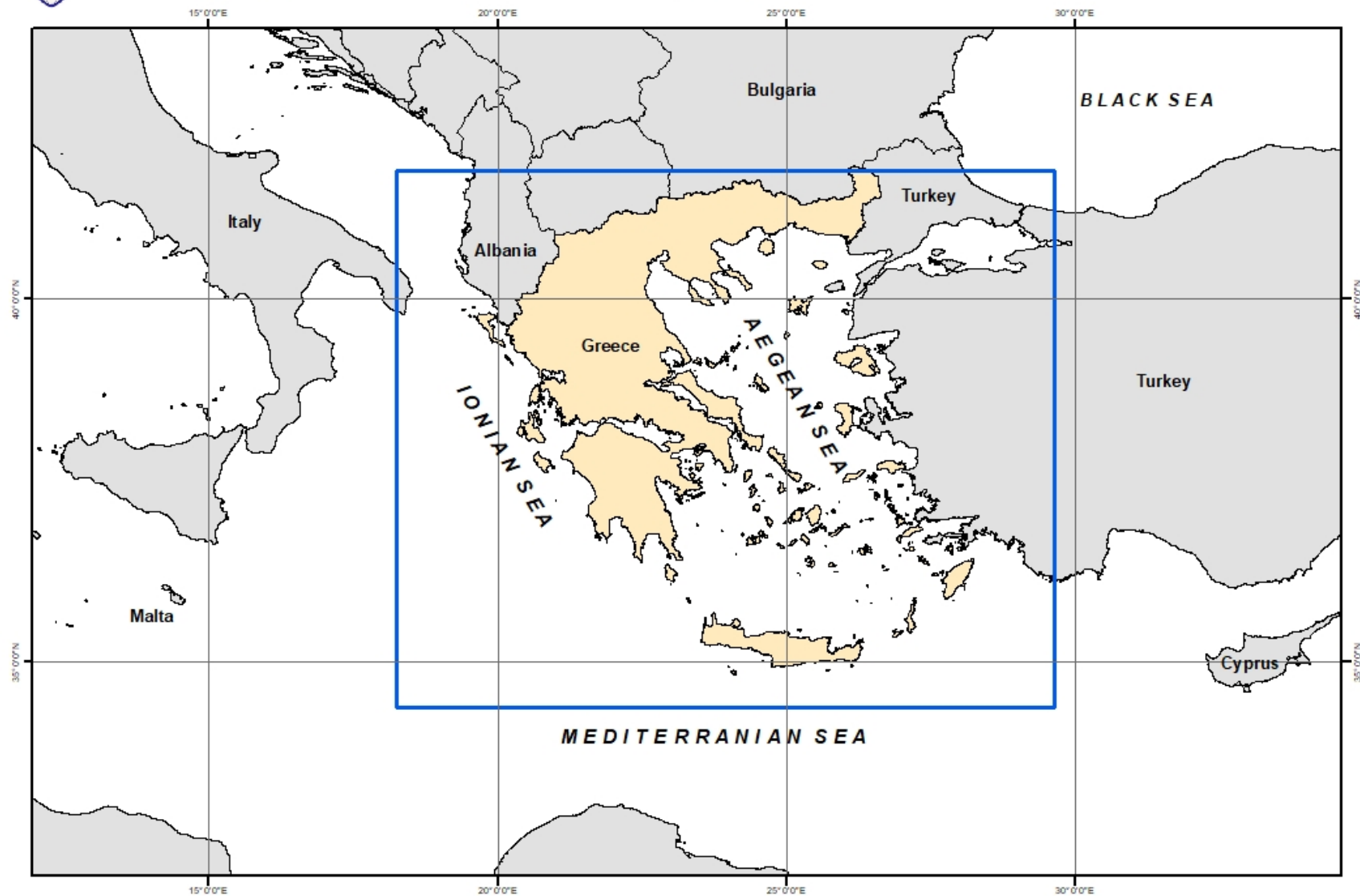
HNHS invests in people and utilises modern tools to keep its rate of growth steadily ascending for the sake of the safety of Navigation and National Interests.

**Hydrographic Activities 2019-2020**



Hellenic Navy Hydrographic Office

## Usage Band 1 Coverage Overview







Hellenic Navy Hydrographic Office

## Usage Band 2 Coverage General

