# BLACK AND AZOV SEAS WORKING GROUP (BASWG)

# STATE HYDROGRAPHIC SERVICE OF UKRAINE (SHSU)



# NATIONAL REPORT OF UKRAINE

TO THE 17th MEETING
OF THE BLACK AND AZOV SEAS
WORKING GROUP
(BASWG17)

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#### 1. Hydrographic Office / Service

#### General

The State Hydrographic Service of Ukraine (SHSU) is a national hydrographic office and national lighthouse authority of Ukraine, administered by the State Service for Maritime, Inland Waterway Transport and Shipping of Ukraine (Administration of Shipping) under the Ministry for Communities, Territories and Infrastructure Development of Ukraine.

The main tasks of the SHSU include ensuring Ukraine's compliance with international obligations of Ukraine as a coastal state under the International Convention for the Safety of Life at Sea, 1974 (SOLAS). These tasks are as follows:

- performing hydrographic surveys of seas and inland waterways in accordance with International Hydrographic Organization (IHO) standards, and processing the collected hydrographic data for its cartographic production or transmission to end-users;
- preparing, compiling, and distributing nautical and river navigational charts, Sailing Directions, Notices to Mariners, and other nautical publications;
- collecting, processing, and disseminating maritime safety information, while also acting as a National Navigational warnings' Coordinator and a National NAVTEX Service Coordinator;
- providing navigational support of shipping by equipping sea and inland waterways with aids to navigation (AtoN) and ensuring their continuous operation in accordance with the requirements of the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA);
- developing the navigation and hydrographic support system of shipping by means of implementation of new technologies and technical means in the fields of navigation, hydrography, and cartography.

Due to the occupation of the Autonomous Republic of Crimea and parts of Kherson, Zaporizhzhia, and Donetsk regions by the Russian Federation, the State Hydrographic Service of Ukraine has lacked access to the inland sea waters and territorial sea surrounding the Crimean Peninsula since March 2014, and to the Sea of Azov since February 2022.

The sea ports of Kerch, Sevastopol, Feodosiia, Yalta, Yevpatoriia are closed until the restoration of the constitutional order of Ukraine within the temporarily occupied territory of the Autonomous Republic of Crimea (in accordance with the Order of the Ministry of Infrastructure of Ukraine No. 255 of June 16, 2014).

Updates to the IHO Yearbook as of March 2024.

STATE HYDROGRAPHIC SERVICE OF UKRAINE					
Institution of which the	Ministry for Communities, Territories and				
Hydrographic Service is part	Infrastructure Development of Ukraine				
injurograpine service is pare	imitable actual of 20 to companion of a marine				
	State Service for Maritime, Inland Waterway				
	Transport and Shipping of Ukraine (Administration of				
	Shipping)				
Principal functions of the H.O.	Hydrographic surveys, oceanography, nautical charts and				
	inland charts in paper and digital form, cells, nautical				
	publications (Notices to Mariners, Sailing Directions, List				
	of Lights etc.), radio navigational warnings, broadcasting				
	of meteorological information, aids to navigation.				
National day	24 August				
Date of establishment in	9 February 1994				
accordance with national					
legislation	In accordance with the Ordinance of the Cabinet of				
N 1 0 1 0 1	Ministers of Ukraine No. 84 of 9 February 1994				
Name and rank of the Director or	Captain (N) Oleksandr Boiko				
Head	204244 (2022)				
Tonnage	804344 (2022)				
Staff employed	Mr Mykhailo CHEREPYNETS – Deputy Head for				
- Hydrographers (name and rank of	Hydrography and Navigation				
`	Mr Oleh MARCHENKO – Head of				
managing staff)	Ukrmorcartographia (the Charting Branch of the State				
	Hydrographic Service of Ukraine)				
Total number of paper charts	175 paper nautical navigational charts				
published	176 paper charts for inland waterways				
P40021010	The property of the second sec				
Number of INT charts published	16				
Number of ENC cells published	<b>238</b> ENCs				
-	138 ENC cells				
	195 inland ENCs				
Types of publications produced	- Notices to Mariners (in Ukrainian and English)				
(e.g., Tide Tables, Sailing	No.907.00 (48/year);				
Directions, List of Lights, etc.)	- 'Sailing Directions on Ukrainian Waters of the Black				
	· ·				
1	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015); - 'Lights and Beacons of the Black Sea and Sea of Azov.				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015); - 'Lights and Beacons of the Black Sea and Sea of Azov. Ukrainian coast' No.201 (in Ukrainian) (2022);				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov.  Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov.  Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the  Black Sea and the Sea of Azov (Summary description)"				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov.  Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the  Black Sea and the Sea of Azov (Summary description)"  No.402 (in Ukrainian) (2015);				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov.  Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the  Black Sea and the Sea of Azov (Summary description)"  No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov.  Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the  Black Sea and the Sea of Azov (Summary description)"  No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701  (in Ukrainian and English) (2021);				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov. Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the Black Sea and the Sea of Azov (Summary description)" No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701 (in Ukrainian and English) (2021);  - 'Symbols and abbreviations used on nautical charts'				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov. Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the Black Sea and the Sea of Azov (Summary description)" No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701 (in Ukrainian and English) (2021);  - 'Symbols and abbreviations used on nautical charts' No.902 (in Ukrainian and English) (2023);				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov. Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the Black Sea and the Sea of Azov (Summary description)" No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701 (in Ukrainian and English) (2021);  - 'Symbols and abbreviations used on nautical charts' No.902 (in Ukrainian and English) (2023);  - 'Description of Maritime Buoyage System in Ukrainian				
	Sea and the Sea of Azov' No.101 (in Ukrainian) (2015);  - 'Lights and Beacons of the Black Sea and Sea of Azov. Ukrainian coast' No.201 (in Ukrainian) (2022);  - 'Regime of Navigation in Ukrainian Waters of the Black Sea and the Sea of Azov (Summary description)" No.402 (in Ukrainian) (2015);  - Catalogue 'Nautical charts and publications' No.701 (in Ukrainian and English) (2021);  - 'Symbols and abbreviations used on nautical charts' No.902 (in Ukrainian and English) (2023);				

System. Region A' No. 904 (in Ukrainian) (2015);

- 'Symbols and abbreviations used on inland navigational charts' No. 908 (in Ukrainian and English) (2023):
- 'Lights and beacons of the Danube River. Kiliiske Mouth Delta to the Prut River Mouth' No.202 (in Ukrainian) (2011);
- 'Sailing Directions of the Danube River. Kiliiske Mouth Delta to the Prut River Mouth' No.103 (in Ukrainian) (2006);
- 'Instructions on Requirements and Methods of Depth Contour Survey for Navigation Purposes' No.933 (in Ukrainian) (2006);
- 'General Provisions on Compiling Notices to Mariners' No.935 (in Ukrainian) (2006);
- 'Oceanographic atlas of the Black Sea and the Sea of Azov' No. 601 (in Ukrainian and English) (2009);
- 'The list of current Temporary and Preliminary NtMs of State Hydrographic Service of Ukraine' No. 910 (in Ukrainian and English) (2024);
- 'Navigational and Reference Tables for Navigators' No. 909 (in Ukrainian) (2012);
- 'Dnipro River Pilot' No.105 (2012);
- 'Navigational-Hydrographic Dictionary' (in Ukrainian and English) (2008);
- 'Cartographic Support for Navigation' (in Ukrainian) (2013);
- 'Navigational Support of Sailing' (in Ukrainian) (2014).

## 2. Surveys

## Coverage of new surveys

The State Hydrographic Service of Ukraine carried out surveys at specific seaports and within the water areas of the Danube and Dnipro rivers in 2022-2023.

The information about detected dangers and changes in navigational conditions is disseminated in the coastal warnings and in the Ukrainian Notices to Mariners.

#### New technologies and / or equipment

In 2023, two multi-beam echosounders, two single-beam echosounders, and software for conducting surveys and processing hydrographic data were put into operation.

## New ships

No new ships have been commissioned into service from 2022 to 2024.

#### Challenges and achievements

Eleven hydrographic survey vessels, buoy tenders, and boats of the State Hydrographic Service of Ukraine suffered varying degrees of damage during the Russian attacks. In the Mariupol Section, the aggressor seized a hydrographic survey vessel and a survey boat of the SHSU.

No.	Hydrographic survey vessels and watercraft	9				
1.	Shliahovyk	Damaged due to collision with an unknown explosive device. Repaired.				
2.	Kapitan Bashev	Looted and damaged by debris during shelling. Half-flooded. Currently, its condition is unknown.				
3.	MZ-304	Looted and damaged by debris during shelling. Half-flooded. Currently, its condition is unknown.				
4.	Ivolha	Looted and damaged by debris during shelling. Half-flooded. Currently, its condition is unknown.				
5.	Hydrograph-12	Looted and damaged by debris during shelling. Half-flooded. Currently, its condition is unknown.				
6.	Hydrograph-5	Two main outboard engines, YAMAHA-115, were stolen from the boat, and the hull and cable routes were damaged.				
7.	Puteets-1	Looted and damaged by debris during shelling. Half-flooded. Currently, its condition is unknown.				
8.	Loran	The MerCruiser-3.0L main engine was stolen from the boat.				
9.	Stryzhen	The vessel sank near the pier during the artillery bombardment in 2022.				
10.	Kapitan Ziber	Detained in the territory occupied by the Russian Federation				
11.	UAK-3309-K	Detained in the territory occupied by the Russian Federation				

Due to Russian Federation's armed aggression against Ukraine since February 2022, the SHSU is unable to carry out surveys in specific areas of the Black Sea and the Sea of Azov.

## 3. New charts & updates

# ENC coverage, gaps and overlaps

In 2023, 18 nautical ENCs covering the water area of the north-western part of the Black Sea and 68 river ENCs for the Danube and Dnipro rivers were updated.

In pursuance of the IHO Resolution 1/2018, which concerns defining the overlapped ENC data significant for navigational safety within the area of its chart production and preventing an increase in the aforementioned cases, the SHSU analyzes and provides the corresponding information to the Region F International Charting Coordinator (ICC).

At present, Ukrainian ENCs have 33 cases of overlapping with ENCs produced by other countries.

The identified overlaps in the Black and Azov Seas have been caused by factors beyond Ukraine's control, as the SHSU exclusively develops, distributes, and updates its

official ENCs for Ukraine's jurisdictional area. On February 26, 2024, the Regional Charting Coordinator received information regarding all cases of overlapping in the Ukrainian ENCs, along with risk assessments.

#### ENC distribution method

As per the agreements concluded with the PRIMAR (Regional ENC Coordinating Centre (RENC)) and the United Kingdom Hydrographic Office (UKHO).

#### RNCs

The SHSU does not produce RNCs due to the lack of demand for this type of chart.

#### INT charts

In 2023, 4 INT charts were reissued due to changes in the traffic separation system 'Approaches to the Chornomorsk, Odesa and Pivdennyi Ports'.

#### National paper charts

68 new editions of river navigational charts for the Danube and Dnipro rivers, along with 25 nautical charts for the north-western part of the Black Sea, have been published.

## Other charts, e.g. for pleasure craft

In 2023, 3 general-purpose charts of inland waterways were produced for the Danube and Dnipro rivers.

# 4. New publications & updates

## New publications

No new publications have been issued from 2022 to 2024.

# Updated publications

Re-issued:

- No. 201 'Lights and beacons of the Black Sea and Sea of Azov. Ukrainian coast' (2022);
- No. 902 'Symbols and abbreviations used on nautical charts' (2023);
- No. 908 'Symbols and abbreviations used on inland navigational charts' (2023);
- No. 910 'The list of current Temporary and Preliminary NtMs of State Hydrographic Service of Ukraine' (2024).

# Means of delivery, e.g. paper, digital

Notices to Mariners are provided on the user's demand and are delivered in both paper and digital forms. All other publications are delivered in paper form.

Charts are provided to users in both paper and digital forms.

#### 5. MSI

#### Existing infrastructure for MSI dissemination

General supervision over MSI dissemination has been fulfilled by the National Coordinator – the State Hydrographic Service of Ukraine, through its Centre for Navigational and Hydrographic Information operating in Kyiv. Informing mariners on changes in navigational conditions and sailing regime in the sea area of Ukraine is carried out by means of:

- coastal warnings broadcasting in English via International NAVTEX Service at frequencies 518 and 490 kHz;
- coastal warnings broadcasting in the radiotelephony mode at frequency 2650 kHz (temporarily suspended since May 2022);
- transmission to ship-owners and mariners via the Internet of daily Bulletins of the latest navigational information, including texts of coastal warnings for the past 24 hours, current coastal warnings and NAVAREA III navigational warnings for 031 region (the Black Sea and the Sea of Azov), 24-hour weather forecast, ice conditions, storm warnings for the past 24 hours, as well as other information concerning the safety of navigation.

Coastal warnings (navigational information) in NAVTEX mode are broadcasted by Odesa NAVTEX Coastal Station.

Coastal warnings are transmitted on schedule only for their operative range, while vital and important coastal warnings (including information about distresses, drifting mines and storm warnings) are transmitted out of schedule.

The SHSU posts the Maritime Safety Information (MSI) in its official website. The Coastal Warnings in force are currently available in the MSI Section of the SHSU site –

http://hydro.gov.ua/?page\_id=144

#### Contact Details for the National Coordinator of Ukraine:

COUNTRY	TELEPHONE	FAX	EMAIL
UKRAINE	+380 44 292 41 20	+380 44 292 41 20	navigation@hydro.gov.ua navtexukr@gmail.com Web: http://hydro.gov.ua

#### NAVTEX Coastal Stations Contact Details:

1717 TEM Coustai Stations Contact Details.								
Country	NAVTEX stations	Telephone	Fax	Email	Status			
-	stations	_			1			
	Berdiansk [G] [U]	Non-operational due to the Russian Federation's occupation						
UKRAINE	Odesa [C] [X]	+380 48 753 17 53 +380 48 746 80 87 +380 50 490 15 47	+380 48 773 18 72	cngi@hydro.od.ua	operational			

#### Statistics on work of the National Coordinator

During the 2023-2024 period, 192 Coastal Warnings and 1767 Meteorological Warnings (including weather forecasts, storm warnings and ice conditions) were broadcasted, while 6 warnings were delivered to the NAVAREA III Coordinator (Cadiz, Spain).

## New infrastructure in accordance with GMDSS Master Plan

There have been no changes since 2021.

GMDSS				
Master plan	Yes			
A1 Area	Yes			
A2 Area	Yes			
A3 Area	No			
NAVTEX	Yes			
SafetyNET	No			

#### Challenges and achievements

On May 12, 2022, Russian Federation occupation troops invaded the territory of the Berdiansk Lower Lighthouse (Berdiansk city area) and forcibly disconnected the Berdiansk NAVTEX Coastal Station. As a result, Ukraine is unable to broadcast MSI via the Berdiansk NAVTEX Coastal Station to its area of responsibility for MSI distribution (areas of the Sea of Azov and the Kerchenska Strait).

Consequently, between 2022 and 2024, numerous violations by the Russian Federation of Ukraine's areas of responsibility for MSI transmission were recorded. Specifically, these violations included the coastal warnings broadcasting via the Novorossiysk NAVTEX station (518 kHz) and the Taganrog NAVTEX station (490 kHz) for Ukraine's areas of responsibility (the north-western part of the Black Sea, areas adjacent to the Autonomous Republic of Crimea, the Sea of Azov and the Kerchenska Strait).

At the same time, the IMO NAVTEX Coordinating Panel has agreed the usage of the Odesa NAVTEX Coastal Station to broadcast MSI to the waters of the Sea of Azov, aiming to replace the disconnected Berdiansk NAVTEX Coastal Station. The State Hydrographic Service of Ukraine has implemented measures to increase the transmitter power of the Odesa NAVTEX Coastal Station, for the sake of ensuring coverage of the Sea of Azov to fulfill the international obligations of Ukraine under the International Convention for the Safety of Life at Sea (SOLAS), despite the continued occupation of the coast and waters of the Sea of Azov by the Russian Federation.

# 6. <u>C-55</u>

The table below describes the hydrographic surveys for the depth ranges 0-200m and > 200m (-- /--) out to the limits of Exclusive Economic Zone:

A – properly surveyed; B – re-surveying required;

**C** – never systematically surveyed.

Nation	A	В	C	Additional notes including significant gaps
				in coverage
				The Russian Federation occupies most of
				Ukraine's territorial sea and exclusive
Ukraine	75%/100%	25%/0%	0%/0%	(maritime) economic zone.
				The destruction of the Kakhovska
				Hydroelectric Power Station by the Russian
				Federation has led to the spreading of
				significant debris from destroyed objects
				throughout the Black Sea, posing potential
				navigational hazards. Additionally, military
				operations in the north-western part of the
				Black Sea have resulted in an increased
				presence of mines. As a result, the water
				areas requiring resurveying may be
				substantially larger by square.

The latest update on the status of Ukrainian charts coverage within the area of responsibility of Ukraine in the International Charting Region F is as follows:

Nation	Offshore passage/ Small			Coastal passage/ Medium		Approaches and ports/ Large			Additional notes	
	A	В	C	A	В	С	A	В	С	
Ukraine	100%	-	100%	100%	-	100%	100%	-	100%	Ukraine does not produce RNCs.

Nation	MSI	
Ukraine	Local warnings Coastal warnings NAVAREA warnings Information about ports	Yes Yes Yes

## 7. Capacity Building

#### Offer of and/or demand for Capacity Building

The State Hydrographic Service of Ukraine is seeking additional ways of personnel training, in particular by means of participation of the SHSU hydrographic surveyors, cartographers in various specialized courses conducted under the auspices of the International Hydrographic Organization (IHO).

#### Training received, needed, offered

In 2022, hydrographic surveyor Maksym Zavarzin successfully completed the Category "B" Hydrographic Survey Programme held at the Korea Hydrographic and Oceanographic Agency (KHOA), Busan, Republic of Korea (ROK).

Throughout 2023-2024, the representatives from the SHSU have been participating in the training courses organized by the RENC PRIMAR (Norway) concerning the special use of S-100/S-101 standards (3 employees).

Dmytro Mazin, an SHSU employee, is scheduled to participate in the Category "B" Hydrographic Survey Programme in 2024.

# Status of national, bilateral, multilateral or regional development projects with hydrographic component. (In progress, planed, under evaluation or study)

The State Hydrographic Service of Ukraine has concluded agreements that are currently in force for exchanging navigational information with the United Kingdom Hydrographic Office (UKHO).

Additionally, agreements have been signed with RENC PRIMAR (Norway) and the UKHO for the ENCs distribution.

# Definition of proposals and requests to the IHO CBSC

The State Hydrographic Service of Ukraine is seeking training opportunities for its personnel in the following areas:

Short-term courses:

- Workshop on MSI Development & Implementation (1 employee)
- S-100 Production Course (S-57 to S-101 Conversion) (1 employee)
- ENC Quality and Conversion Training (1 employee)

Long-term courses:

Category "B" Hydrographic Survey Programme (1 employee)

# 8. Oceanographic activities

#### General

Oceanographic activities in the Black Sea and the Sea of Azov have been suspended since 2022 due to Russian aggression.

### Tide gauge network

The State Hydrographic Service of Ukraine operates automatic tide gauges designed for continuous monitoring of sea level on the coast of the Black Sea.

Furthermore, the network of tide gauge stations is utilized by the Ukrainian Hydrometeorological Center of the State Emergency Service of Ukraine (UkrHMC).

## New equipment

No new equipment has been acquired from 2022 to 2024.

# 9. Spatial data infrastructure

In 2020, the Act of Ukraine 'On National Spatial Data Infrastructure' came into force, stipulating the involvement of the State Hydrographic Service of Ukraine in the development and updating of geospatial datasets.

The SHSU collaborates with the State Service of Ukraine for Geodesy, Cartography, and Cadastre to fulfill the requirements of the aforementioned Act within its jurisdiction.

#### 10. Innovation

#### Use of new technologies

In 2023, a representative from the State Hydrographic Service of Ukraine successfully completed the IALA Waterway Risk Assessment Program (IWRAP MK II) offered by the IALA World-Wide Academy. Up to the moment, five employees of the SHSU in total have undergone training through this course provided by the IALA World-Wide Academy.

Utilizing the acquired risk assessment skills, SHSU representatives have contributed to the development of amendments to the traffic separation system in the north-western part of the Black Sea.

#### 11. Other activities

## Participation in IHO meetings

The State Hydrographic Service of Ukraine is involved in the activities of the corresponding IHO Regional Hydrographic Commission (RHC) and the Working Group subordinate to it, namely the Mediterranean and Black Seas Hydrographic Commission (MBSHC) and the Black and Azov Seas Working Group (BASWG).

## Meteorological data collection

The State Hydrographic Service of Ukraine and the Ukrainian Hydrometeorological Center have concluded agreements concerning usage of meteorological and hydrological information for the Black Sea and inland waterways.

# Engagement with the Maritime Administration

The State Hydrographic Service of Ukraine closely collaborates with the State Service for Maritime, Inland Waterway Transport and Shipping of Ukraine (Administration of Shipping), which is serving as the governing body for the SHSU concerning hydrography, charting, MSI broadcasting and navigation support for shipping.

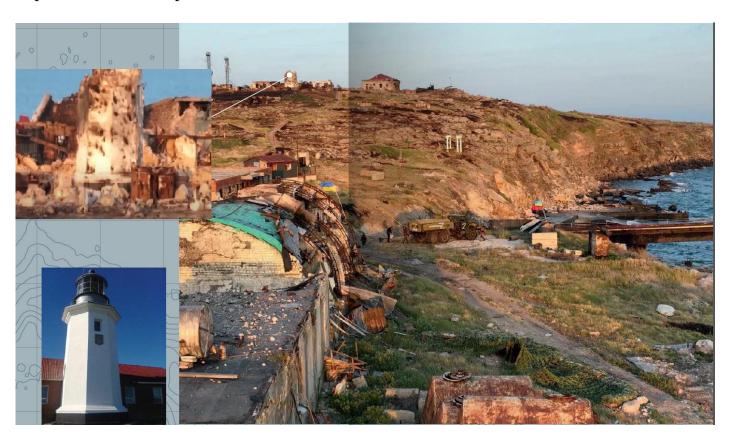
The SHSU analyzes information and draws conclusions regarding the possibility of constructing facilities along coastal and sea areas, which could affect the established operation of aids to navigation (AtoN) or pose navigational hazards. It also provides assessments on the construction of hydraulic structures and performing activities within sea areas. Furthermore, the SHSU collaborates on matters concerning informing the mariners about changes in navigational conditions and sailing regime, changes to established ships' routeing systems, and the development of regulatory and legislative documents related to navigational safety and other issues within the area of responsibility of the SHSU.

#### Aids to Navigation matters

The State Hydrographic Service of Ukraine ensures navigational support for shipping by equipping sea and peculiar inland waterways with aids to navigation (AtoN) following IALA requirements.

The SHSU is responsible for operating and maintaining AtoN, including both coastal (lighthouses, lighted beacons) and floating aids to navigation.

Currently, Alisa Nechyporuk, a representative of the SHSU, is participating in training in the IALA World-Wide Academy Model Course 'Level 1.1 AtoN Manager' from September 2023 to April 2024.



Due to Russia's military aggression against Ukraine, certain AtoNs have been damaged. The Zmiinyi Island Lighthouse and its infrastructure were completely destroyed.

Moreover, a considerable number of AtoNs, maintenance facility and other essential buildings for AtoN maintenance along the Ukrainian coast have been severely damaged.

Due to the occupation of part of the territory of Ukraine by the Russian Federation, aids to navigation along the coastline of the Crimean Peninsula, the Sea of Azov, the Karkinitska Gulf and the port of Skadovsk are currently beyond the control of the SHSU.

## International engagements

The State Hydrographic Service of Ukraine actively engages in the activities of committees and sub-committees, working groups of IMO, IALA, Danube Commission within its area of responsibility. The SHSU is responsible for carrying out hydrographic activities to fulfill the obligations of the Mixed Ukrainian-Romanian Border Commission.

#### 12. Conclusions

Since February 2022 the navigation and hydrographic support activities have been carried out under martial law conditions due to the armed aggression of the Russian Federation against Ukraine, following the Decree of the President of Ukraine 'On Imposing Martial Law in Ukraine' on 24 February 2022 No. 64/2022, approved by the Act of Ukraine on 24 February 2022 No. 2102-IX.

Russia's military aggression against Ukraine has made it impossible for Ukraine to fulfill its international obligations of a coastal state in terms of hydrographic support in accordance with the SOLAS requirements in the Sea of Azov. Moreover, it has significantly limited fulfillment of these obligations in the north-western part of the Black Sea.

The SHSU carries out hydrographic surveys of inland waterways (the Dnipro, Danube and Pivdennyi Buh rivers) in order to issue and update the river navigational charts.

Date:

**W** March 2024

Signature:

Head of the SHSU, Captain (N)

Oleksandr BOIKO