

## NATIONAL REPORT OF POLAND

### Executive summary

This report summarizes activities of the Hydrographic Office of the Polish Navy since the previous Baltic Sea Hydrographic Commission 27th Conference in 2022.

### 1. Hydrographic Office / Service

The National Hydrographic Service in Poland is created by the Hydrographic Office of the Polish Navy (HOPN) and the Maritime Administration. The HOPN is located in the Ministry of Defence. The main responsibility of HOPN is:

- hydrographic surveys coordination,
- paper charts compilation and production,
- nautical publications production,
- ENCs service,
- national hydrographic database maintenance,
- Navigational Warning System coordination, MSI system supporting.

### 2. Hydrographic surveys

Hydrographic surveys conducted in 2022 and 2023 were focused on finishing the last CAT I HELCOM route (DWR-02) and also on shallow water areas CAT III - critical for the safety of navigation. Surveys were conducted by the Hydrographic Support Squadron with use of:

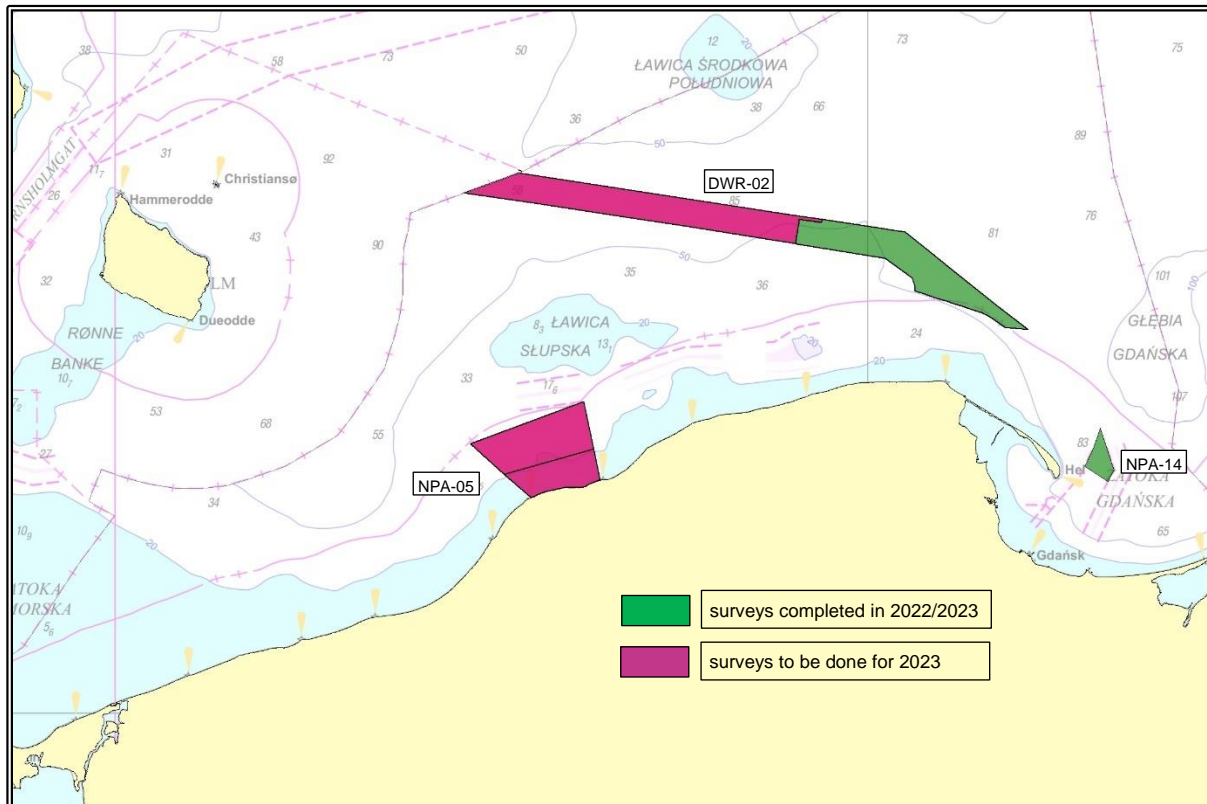
- hydrographic ships: ORP Heweliusz, ORP Arctowski,
- motorboats: MH-2/3/4,
- RIBs: Arctowski-1/2, Heweliusz-1,
- ASV: DriX, Z-Boat 1800.



Between 15th July 2022 and 15th July 2023, in Polish waters, hydrographic surveys were carried out as follows:

- 486,6 km<sup>2</sup> - HELCOM routes Cat. I (DWR-02),
- 57,3 km<sup>2</sup> - HELCOM routes Cat. III (NPA-14).

All surveys comply with the IHO S-44 1a standard.



### 3. New Charts & Updates

#### a) ENC:

Polish waters are completely covered with all relevant navigational bands.

Total: 67 cells in navigational purpose bands from 2 to 6 (band 2 – 1 cell, band 3 – 15 cells, band 4 – 16 cells, band 5 – 34 cells, band 6 HD – 1).

ENCs are updated on a weekly basis.

In the year 2022 – 35 new editions and 262 updates were released.

In the year 2023 (until July 14th) 1 new ENC band 4 (app. to Świnoujście harbour), 7 new editions and 145 updates were released.

#### b) ENC Distribution method

All the Polish ENCs are distributed through the PRIMAR authorized distributors network.

#### c) RNCs

Not produced

#### d) National Paper Charts

Following chart were compiled and published:

##### 2022:

- 42 Bałtyk. Zatoka Gdańska. Podejście do portu Nowy Świat.
- 46 Bałtyk południowy. Zatoka Pomorska. Podejście do Świnoujścia.

##### 2023:

- 39 Bałtyk południowy. Zatoka Pomorska. Zalew Kamieński i Cieśnina Dziwna.

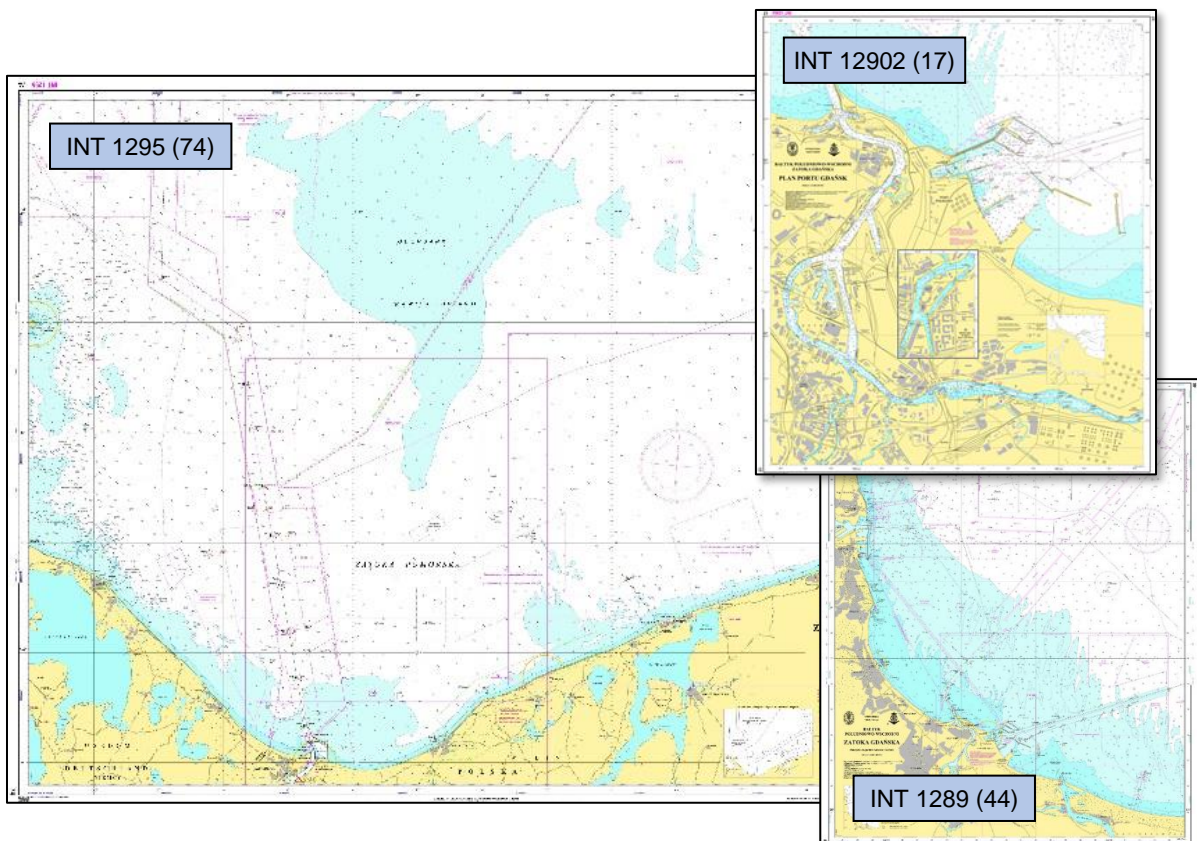
#### e) INT Charts

##### 2022:

- INT 1297 (47) Bałtyk południowy. Zalew Szczeciński. Część północna.
- INT 1298 (48) Bałtyk południowy. Zalew Szczeciński. Część południowa.

##### 2023:

- INT 12902 (17) Bałtyk południowo-wschodni. Zatoka Gdańska. Plan portu Gdańsk.
- INT 12991 (18) Bałtyk południowy. Zatoka Pomorska. Plan portu Szczecin.
- INT 1289 (44) Bałtyk południowo-wschodni. Zatoka Gdańska. Podejście do portów Gdańsk i Gdynia.
- INT 1295 (74) Bałtyk południowy. Zatoka Pomorska.
- INT 1296 (75) Bałtyk południowy. Zalew Szczeciński. Zatoka Pomorska.
- INT 1294 (154) Bałtyk południowy. Od Arkony do Niechorza.





**f) Other Charts, e.g. for pleasure craft:  
2023:**

1030 Zatoka Pomorska. Zalew Szczeciński.

**g) Challenges and achievements**

All new editions of nautical charts were released in a new vertical reference system the Baltic Sea Chart Datum 2000. The process of the implementation of the BSCD2000 in Polish waters (for all bands) is planned to be completed in 2024.

**4. New publications & Updates.**

**2022:**

Baltic pilot. Coast of Poland – 502 ed. 11,

**5. MSI**

**Existing Infrastructure for Transmission**

Playing the role of the National Hydrographic Service, the HOPN operates as the National Coordinator of Navigational Warnings in the Polish Area of Responsibility. NAVTEX Service covers Polish waters, with messages being transmitted by the Polish Rescue Radio (new station operated by the Polish Maritime Administration). Between July 2022 and June 2023, 338 Navigational Warnings were promulgated by the HOPN as Local, Coastal and Subarea warnings.

**6. C-55**

Latest update: July 2023

**7. Capacity Building**

In 2023, the following application for participation in the CB were sent from Poland:

- Joint Canada-IHO Project Empowering Women In Hydrography, IC-ENC Knowledgebase Secondment (IHO CI 19/2023).
- JCBP/IHO-Nippon Foundation Chart Project/IHO-Nippon Foundation Geomac Project Alumni Seminar 2023.

**8. Oceanographic activities**

The Maritime Branch of the Institute of Meteorology and Water Management – National Research Institute (IMGW-PIB) in Gdynia is the organization responsible for the oceanographic services in Poland. It provides daily forecasts of water temperature, salinity, currents, sea level, waves height and ice for the Southern and South-Eastern Baltic. Forecasts are based on the SWAN and MIKE DHI 3D models as well as local models for the Gulf of Gdansk and Vistula Lagoon and Pomeranian Bay. All forecasts are available on the Internet at <https://baltyk.imgw.pl>



Tide gauge network is managed by the Institute of Meteorology and Water Management. The service (automatic readings) is available on the Internet at <https://hydro.imgw.pl>

## 9. Spatial data infrastructure, status of MSDI

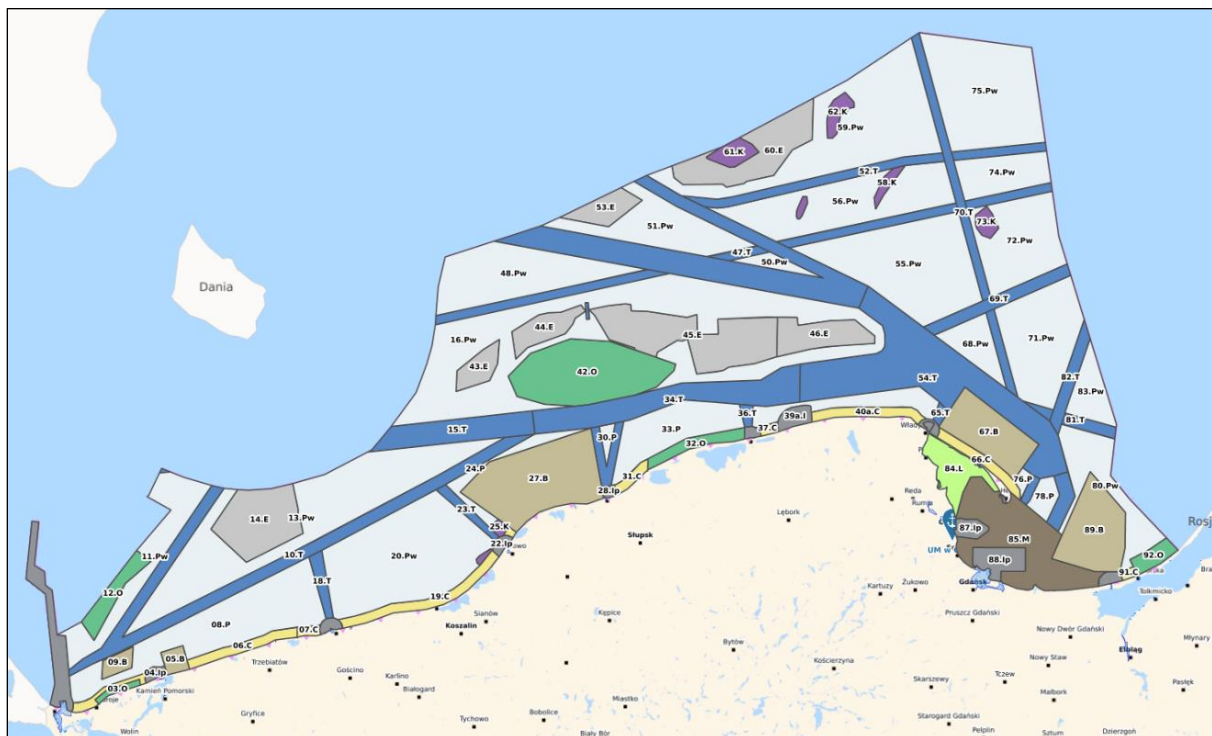
### MSDI national portal

The national MSDI portal is available on the Internet at <https://sipam.gov.pl>. The portal presents marine spatial data and provides downloadable data, metadata and reference documents. The HOPN is responsible for updating bathymetric layers, contours and bottom objects.

### Spatial Plan for Polish waters.

Spatial plan for Polish waters was published in May 2021 and established for the period of 10 years. The plan defines areas with priority of: marine transport, fishery, environmental protection, coastal protection, aquaculture, scientific research, technical infrastructure, national defence, renewable energy (wind farms), oil and gas exploration and extraction and others. The plan is available as a WMS service at SIPAM geoportal (as a separate map composition):

<https://sipam.gov.pl/geoportal>



## 10. Innovation

Establishing by the Naval Academy and the Gdansk University hydrographic studies for the Cat. B hydrographers. The study program is compliant with IHO S-5B and has been certified by the Hydrographic Office of the Polish Navy.

## 11. Other activities

### Gravity surveys

The HOPN plans to continue in 2023 the gravity surveys in Polish waters in cooperation with the Gdańsk University of Technology. All recorded data are to be transferred to FAMOS quasi-geoid modelling project. This year's campaign is focused on the western part of Polish waters.

### World Hydrography Day

The Hydrographic Office of the Polish Navy, together with the Polish Hydrographic Association organized on 30<sup>th</sup> of June the national celebration of the World Hydrography Day. The event took place at the National Maritime Museum in Gdańsk and gathered the representatives of the hydrographic community, the Maritime Administration, representatives of universities and the hydrographic industry.

