

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 28th Conference in 2023.

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 2023 and 2024 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-1/2/3/4,
- RIBs: Homar-2, Arctowski-1/2, Heweliusz-1,
- ASV: DriX, Z-Boat 1800.

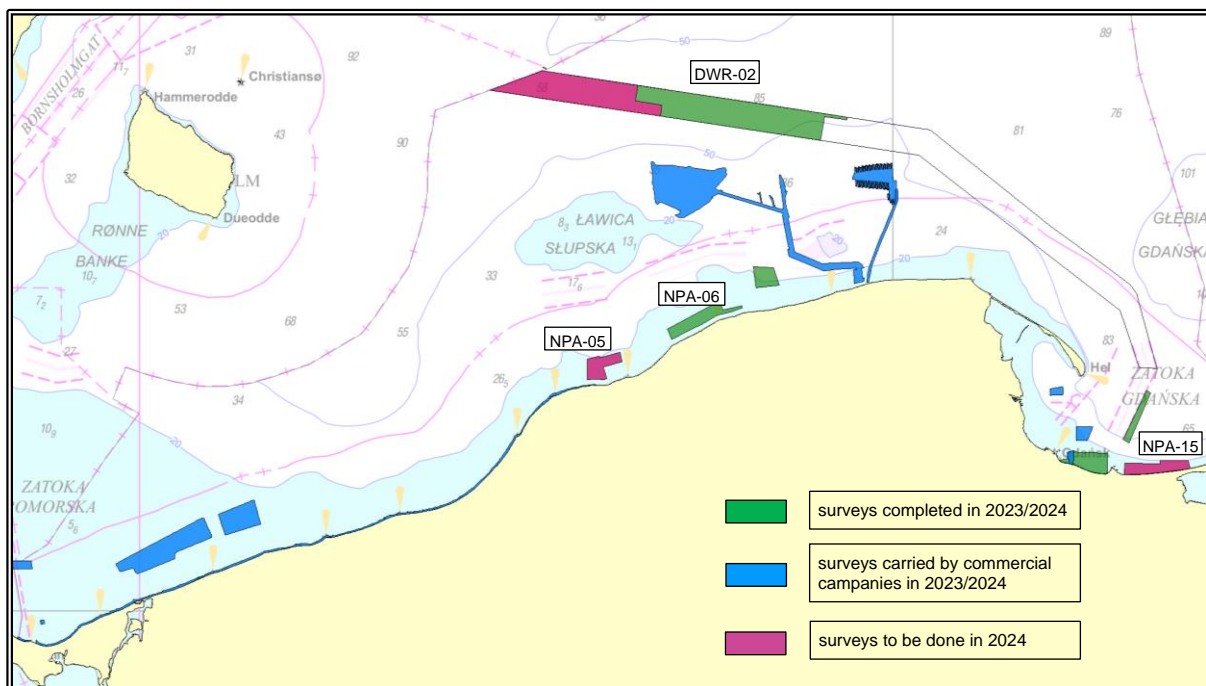


Between 16th July 2023 and 12th July 2024 the hydrographic service carried out the surveys as follows:

- 368.0 km² - HELCOM routes Cat. I (DWR-02),
- 167.2 km² - HELCOM routes Cat. III (NPA-06, NPA-15).

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

In the period from July 2023 to July 2024, commercial companies conducted hydrographic surveys in Polish waters in an area of 722 km². In accordance with the regulation, all data has been submitted to the HOPN.



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 2023 – 17 new editions and 328 updates were released.

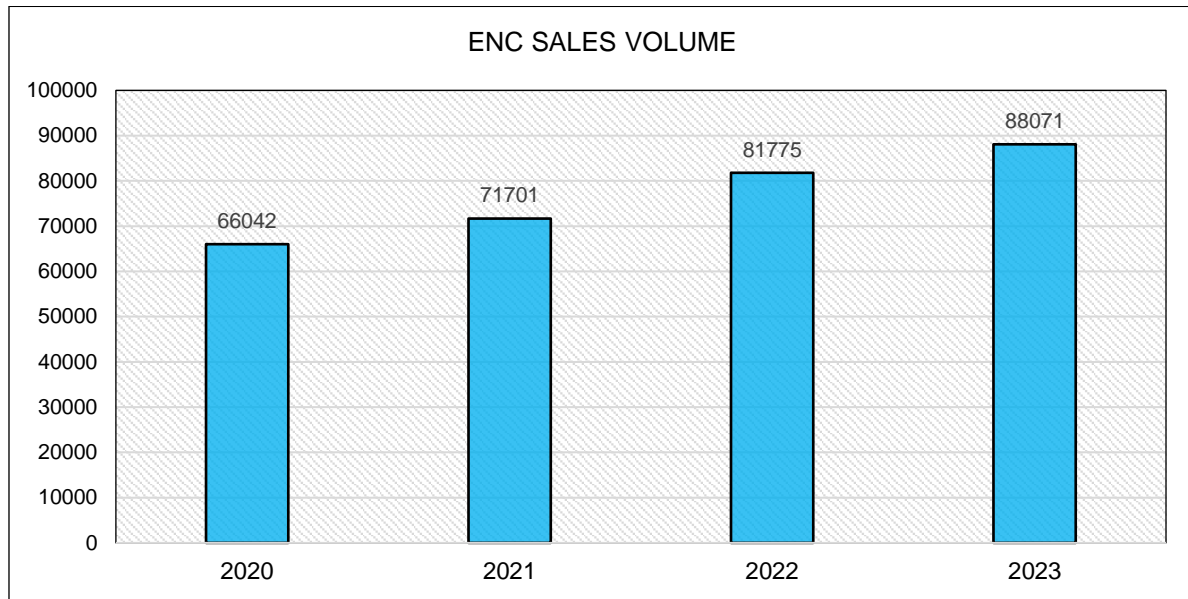
In the year 2024 (until July 10th) 11 new editions and 182 updates were released.

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 charts were compiled and published:

2023:

- 52 Bałtyk południowo-wschodni. Wybrzeże polskie. Na zachód od Władysławowa.
- 71 Bałtyk południowo-wschodni. Zatoka Gdańska. Cześć wschodnia.

2024:

- 55 Bałtyk południowy. Wybrzeże polskie. Od Jarosławca do Ustki.

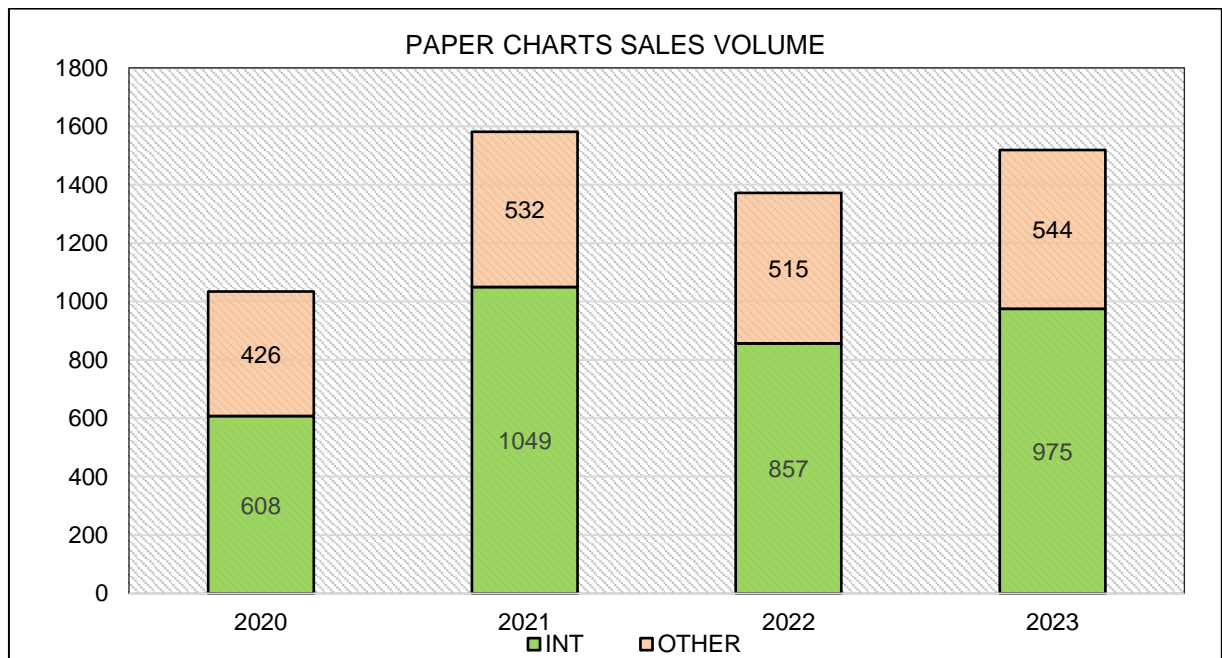
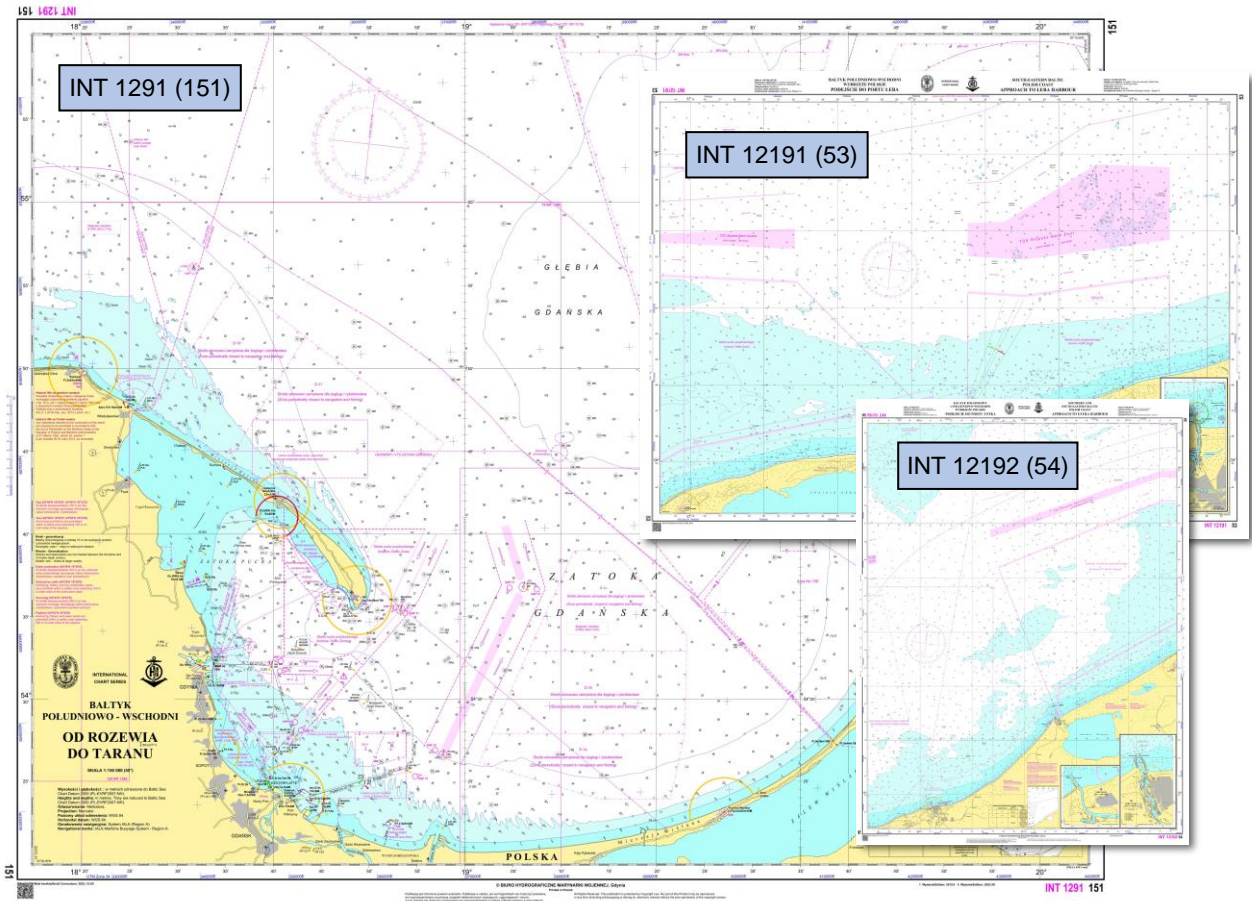
e) INT Charts

2023:

- INT 1291 (151) Bałtyk południowo-wschodni. Od Rozewia do Taranu.

2024:

- INT 12901 (16) Bałtyk. Zatoka Gdańska. Plan portu Gdynia.
- INT 12191 (53) Bałtyk południowo-wschodni. Wybrzeże polskie. Podejście do portu Łeba.
- INT 12192 (54) Bałtyk południowo-wschodni. Wybrzeże polskie. Podejście do portu Ustka.

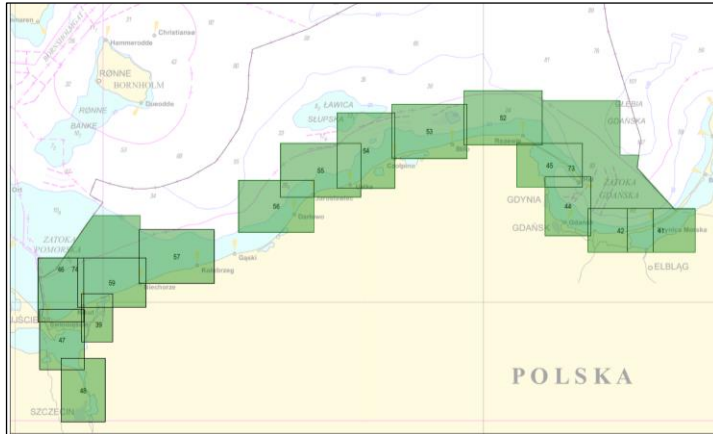


**f) Other Charts, e.g. for pleasure craft:
2024:**

1010 Zatoka Gdańska. Zalew Wiślany.

g) Challenges and achievements

All paper charts in approaching band were updated to BSCD2000. 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

2024:

List of Lights and Fog Signals, vol. I-III (521, 522, 523).

New publications in English, distributed by PRIMAR:

Polish coastal list of lights (520).

The guide to selected ports of the Polish coast (542).

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 16th July 2023 and 12th July 2024, 288 Navigational Warnings were promulgated by the HOPN as Local, Coastal and Subarea warnings.

6. C-55

Latest update: July 2024.

7. Capacity Building

In 2024, one application for participation in the CB was sent from Poland:

- IHO-Nippon Foundation, Geospatial Marine Analysis and Cartography (GEOMAC) Project, UKHO, Taunton, UK.

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

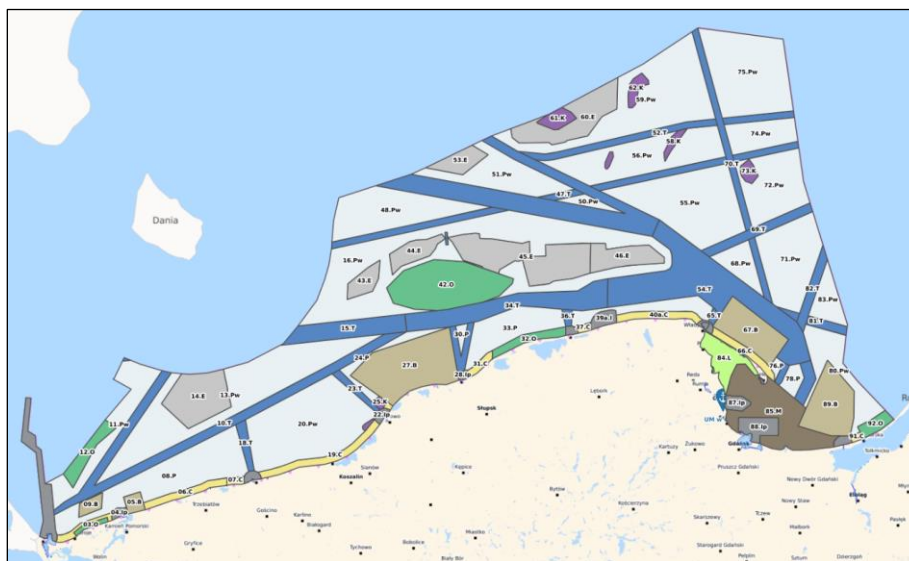
The national MSDI portal is available on the Internet at <https://sipam.gov.pl>. The portal presents marine spatial data and provides downloadable data, metadata and reference documents. The HOPN is responsible for updating bathymetric layers, contours and bottom objects.

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, costal 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>

The Spatial Plan for Polish water is planned to be revised in 2024.



10. Innovation

The first 5 ENC's in various bands were converted from S-57 to S-101 using Caris software and sent to PRIMAR for validation – not for distribution.

The hydrographic studies programme cat. A at the Maritime University of Szczecin was certificated by HOPN. The programme is compliant with IHO S-5A.

Commissioning of a new hydrographic boat Homar-2 for shallow water surveys. The boat is equipped with a multibeam system.



11. Other activities

Gravity surveys

The HOPN continues cooperation with the Gdańsk University of Technology in gravimetric surveys. The gravimeter is permanently installed on board the hydrographic ship ORP Arctowski and gravimetric data are collected simultaneously with hydrographic data.

World Hydrography Day

The Hydrographic Office of the Polish Navy, together with the Polish Hydrographic Association, Maritime Administration and Maritime University of Szczecin organized on 28th of June the national celebration of the World Hydrography Day. The event took place in Szczecin and gathered the representatives of the hydrographic community, universities, Maritime Administration, hydrographic companies and the marine industry. Especially for the event, 15 survey ships and boats arrived to Szczecin harbour and were opened for visitors. A hydrographic exhibition was also organized with a presentation of survey equipment and a live demonstration on the water.



