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 25th Conference in 2020.

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

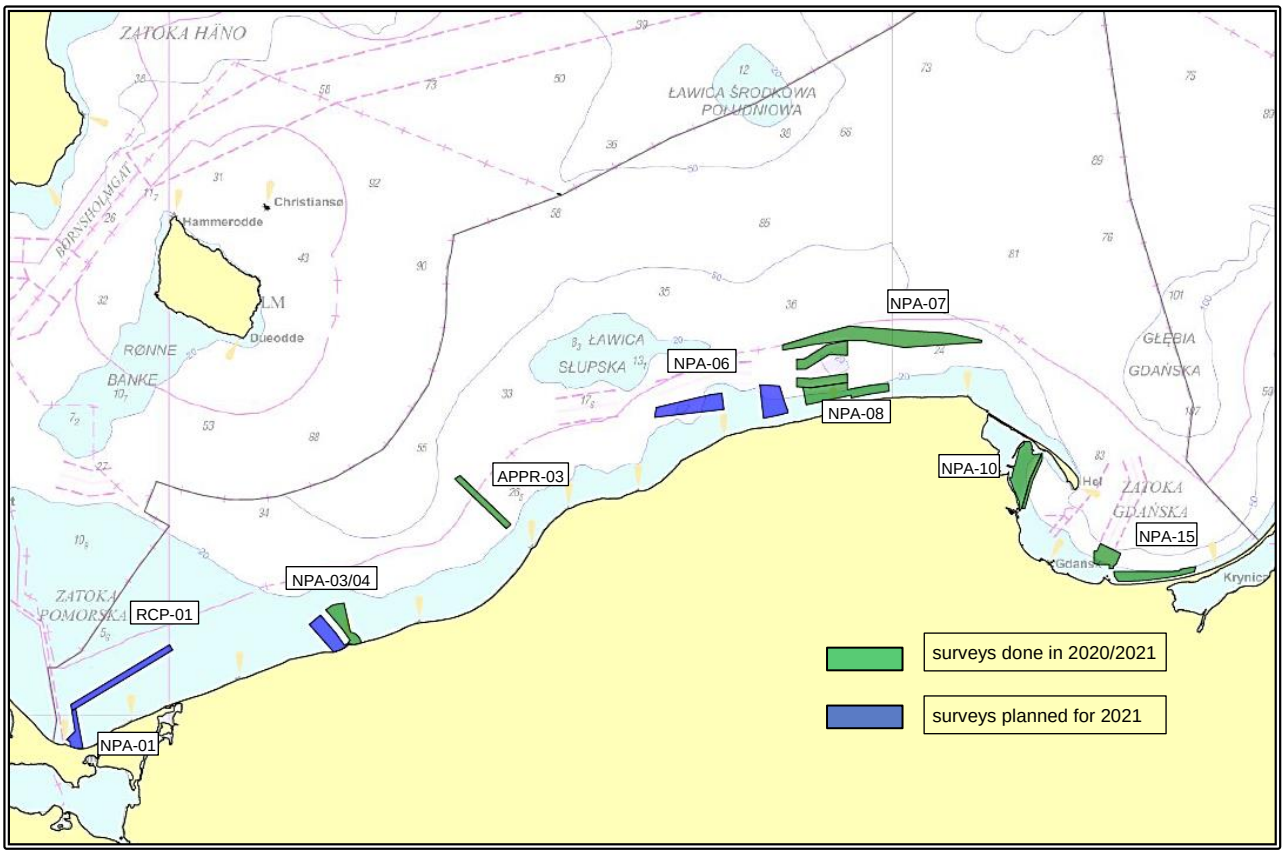
Hydrographic surveys conducted in 2020 and 2021 focused mainly on shallow water areas - critical for the safety of navigation. Due to the reorganisation of TSS Ławica Słupska, new routes and approaches to the TSS were re-surveyed. Surveys were conducted by the Hydrographic Support Squadron (hydrographic ship ORP Heweliusz, motorboats: MH-2/3/4, RIBs) and the Maritime Administration in Gdynia (the new multi-purpose vessel Zodiak II).

Between 01st July 2020 and 15th July 2021, in Polish waters, hydrographic surveys were carried out as follows:

- 37,8 km^2 - HELCOM routes Cat. II (APPR-03),
- 591,8 km^2 - HELCOM routes Cat. III (NPA-04/07/08/10/15).

All surveys comply with the IHO S-44 Standards Special and 1a.

Surveys planned for 2021 cover HELCOM route cat. II (RCP-01) and shallow water areas with intense shipping.



3. New Charts & Updates

a) ENCs:
Polish waters are completely covered with all relevant navigational bands.
Total: 64 cells in navigational purpose bands 2 – 5 (Band 2 – 1 cell, Band 3 – 15 cells, Band 4 – 15 cells, Band 5 – 33 cells).

ENCs are updated on a weekly basis.
In the year 2020 – 1 new edition and 164 updates were released.
In the year 2021 (until 01 July) 1 new cell, 5 new editions and 152 updates were released.

b) ENC Distribution method
All the Polish ENCs are distributed through the PRIMAR authorized distributors network.

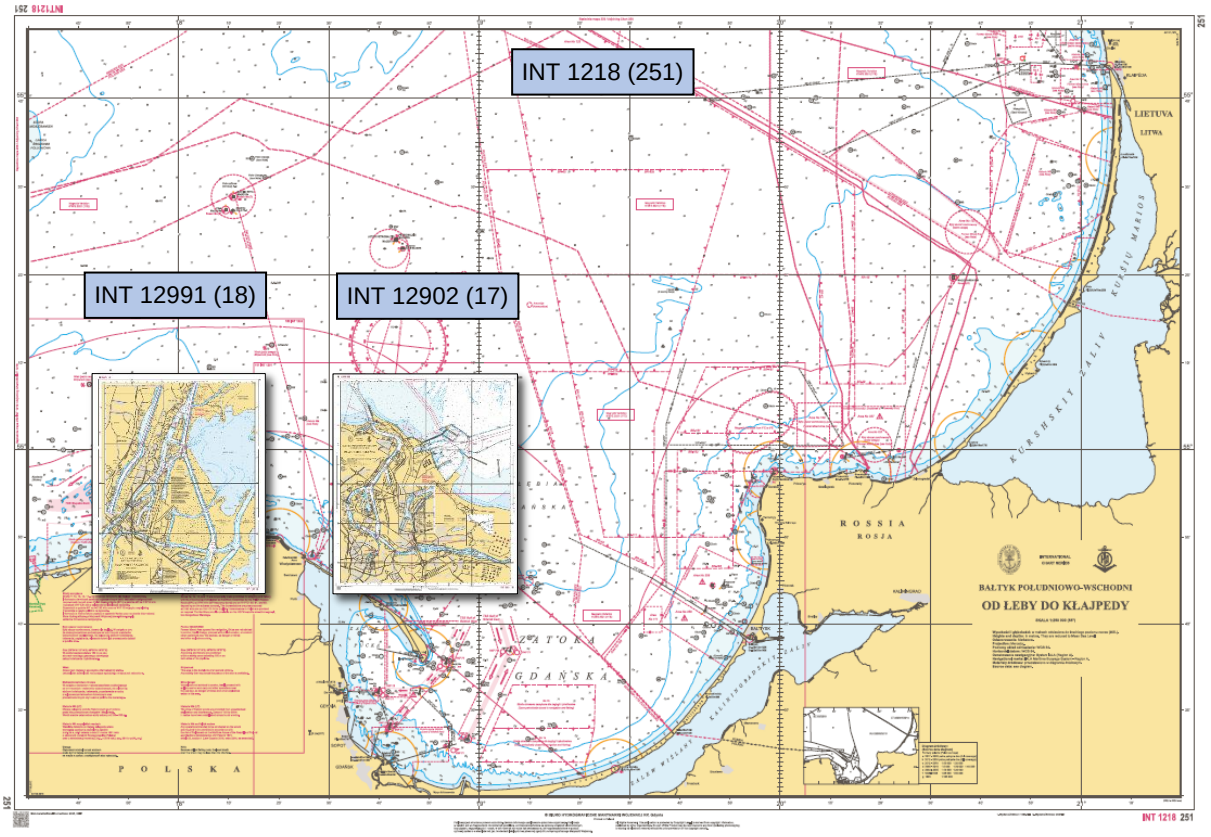
c) RNCs
Not produced

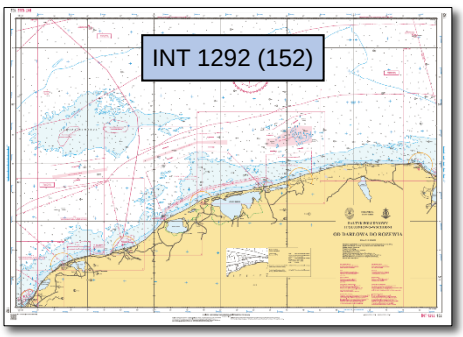
d) National Paper Charts
Following chart were compiled and published:
2020:

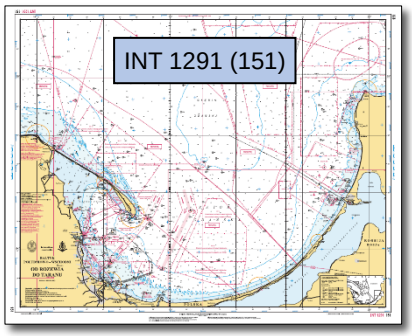
10 Bałtyk południowo-wschodni. Zalew Wiślany. Port Elbląg z podejściem
11 Bałtyk południowo-wschodni. Zalew Wiślany. Martwa Wisła i Wisła Śmiała
23 Bałtyk. Zatoka Gdańska. Przekop Wisły – Zalew Wiślany
52 Bałtyk. Wybrzeże polskie. Od Stilo do Rozewia
1501 Morze Bałtyckie

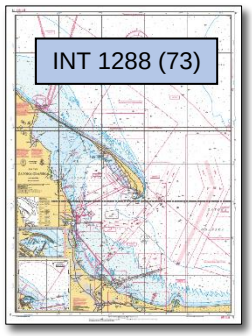
2021:

53 Bałtyk. Wybrzeże polskie. Podejście do portu Łeba
54 Bałtyk. Wybrzeże polskie. Podejście do portu Ustka
63 Bałtyk. Wielki Bełt. Część południowa
64 Bałtyk. Wielki Bełt. Część północna









e) INT Charts

2020:

INT12902 (17) Bałtyk południowo-wschodni. Zatoka Gdańska. Plan portu Gdańsk
INT12991 (18) Bałtyk południowy. Zatoka Pomorska. Plan portu Szczecin

2021:

INT 1288 (73) Bałtyk. Zatoka Gdańska - część zachodnia
INT 1291 (151) Bałtyk południowo – wschodni. Od Rozewia do Taranu
INT 1292 (152) Bałtyk południowo - wschodni. Od Darłowa do Rozewia
INT 1218 (251) Bałtyk południowo-wschodni. Od Łeby do Kłajpedy

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

2020:

3022 Zatoka Gdańska, Zalew Wiślany
Charts 3022 - prepared in coordination with the Bundesamt für Seeschifffahrt und Hydrographie (BSH).

g) Challenges and achievements.

In October 2021, the HOPN plans to publish the first nautical chart referred to the Baltic Sea Chart Datum 2000 vertical reference system - according to the prepared plan of the BSCD 2000 implementation.

4. New publications & Updates.

2021:
List of Lights – 521, new ed. July 2021

5. MSI

Existing Infrastructure for Transmission

Playing the role of the National Hydrographic Service, the HOPN is also a part of the general Polish Maritime Administration and 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). In total, in 2020, 357 Navigational Warnings were promulgated by the HOPN as Local, Costal and Subarea NavWars. Until 01 July 2021, 235 NavWars were promulgated.

6. C-55

Latest update: July 2021

7. Capacity Building

In the stated time-frame, Poland was not active in the capacity building programme.

8. Oceanographic activities

The Maritime Branch of the Institute of Meteorology and Water Management – National Research Institute (MB of IMWM – NRI) in Gdynia is the organization responsible for oceanographic services in Poland. It provides daily forecasts of water temperature, salinity, currents, sea level, waves height and ice for the Southern 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 www.baltic.imgw.pl.

Tide gauge network is managed by the Institute of Meteorology and Water Management. The service (automatic readings) is available on the internet www.meteo.imgw.pl.

GEBCO/IBC's activities:

- Ferry-Box system of MB of IMWM-NRI in Gdynia installed on board of the ferry of Stena Line Company, serving the Gdynia-Karlskrona route. The system measures water temperature, salinity, oxygen, fluorescence, and can collect samples of water for further analysis when under way.

9. Spatial data infrastructure, status of MSDI.

MSDI national portal.
The national MSDI portal was implemented in 2020 by the Maritime Administration. The portal is available on the Internet at www.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 features.

Spatial Plan for Polish waters.
In May 2021, the first spatial plan for Polish waters came into force as a legal act. In general, 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: https://mapy.umgdy.gov.pl/msp/services/POM/POM_RysunekPlanu/MapServer/WMSServer.
The implementation of the plan will require updating and redefining the HELCOM routes scheme in Polish waters.

10. Innovation

HPD implementation.
The HOPN is in the process of introducing the Hydrographic Production Database solution to compile nautical charts, ENCs and nautical publications. The HPD software is also planned to manage some hydrographic databases. The new solution is in testing phase, and its final implementation is planned for 2022.

11. Other activities

Gravity surveys.
In 2021 the HOPN was a coordinator of gravity surveys in Polish waters. The survey covered an area about 20 000 km^2 and was conducted in June by the Hydrographic Squadron of the Polish Navy (ORP Heweliusz) and the Gdańsk University of Technology. This campaign finalized the gravity measurements in Polish waters.

World Hydrography Day

This year, the Word Hydrography Day was celebrated in Poland 21st June at the Naval Museum in Gdynia and referred to the theme “one hundred years of international cooperation in hydrography”. The event gathered the representatives of the hydrographic community, the Maritime Administration, representatives of universities and the hydrographic industry. During the meeting, interesting presentations on the new hydrographic technologies, surveys and the history of the IHO were given. The participants could also see the prepared exhibition presenting hydrographic topics.