



Examples of regional/local approaches for protection and management of underwater cultural heritage and integration of this topic within MSP POLAND

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Legal settlements

- the constitution of the Polish Republic from the day 2 April 1997 (Dz. At. No. 78 items 483),
- law about 23 July 2003 about the preservation of sites of historic interest and the care over ancient monuments (Dz. At. No. 162, the item 1568, with later changes),
- law from the day 23 March 2003 about the spatial planning and farm implements (Dz. At. No. 80, the item 717 with later changes),
- – law from the day 8 March 1990 about the communal self-government (Dz. At. No. 142, the item 1591 with later with changes),
- – law from the day 16 April 2004 about the preservation of nature (Dz. At. No. 92, the item 880 with later with changes),
- – law from the day 27 April 2001 the Environmental law (Dz. At. No. 62, the item 627 with later with changes),
- – law from the day 3 October 2008 about making available of the information on the environment and to his protection {guard}, the participation of the society in the environment protection and about environmental impact assessments (Dz. At. No. 199 items 1227)

- the ordinance of the Minister of the Infrastructure from the day 28 April 2004 in the case of the range of the project the study of conditionings and directions of spatial farm implements of the commune (Dz. At. No. 118, the item 1233),
- the ordinance of the Minister of the Infrastructure from the day 26 August 2003 in the case of the required range the project of the local area planning plan(DZ. At. No. 164, the item 1587) ,
- provisions of the local law concerning creations of areas protected in the mode of provisions laws about the preservation of nature,
- binding local planning records of spatial on the municipal area,
- the preservation of sites of historic interest established in other documents passed by communes

The object of the preservation of sites of historic interest and the care was determined over them with provisions of law about the protection ancient monuments and to the care over ancient monuments and provisions of executive acts to above -mentioned law.

- An object of the protection and the care is the monument which according to art. 3 this law is determined as:
- - *the real estate or the chattel, their parts or groups, being with the work of the man or related to his activity*
- *and the constituting certificate of the past epoch be events whose preservation lies in the social interest*
- *due to the possessed historical value, artistic or scientific*

Over the last years considerable strides have been made in Poland to improve the laws in respect of the underwater cultural heritage

1. Act on the protection and care of historical monuments (Journal of Laws, 2003, No 162, item 1568)
 - Chapt. 1.3.1 monument – unmovable property or movable thing, remains of human activity in past ages, which protection is in public interest because of historic, artistic or scientific value.
 - Chapt. 1.6.1 Permanent ancient monuments are protected under this Act regardless of condition of monuments:
 - e) object of technique
 - f) cemetery
 - d) product of technique, especially means of transport, characteristically for past and modern shape of economy

Chapt. 2 Form and methods of protection

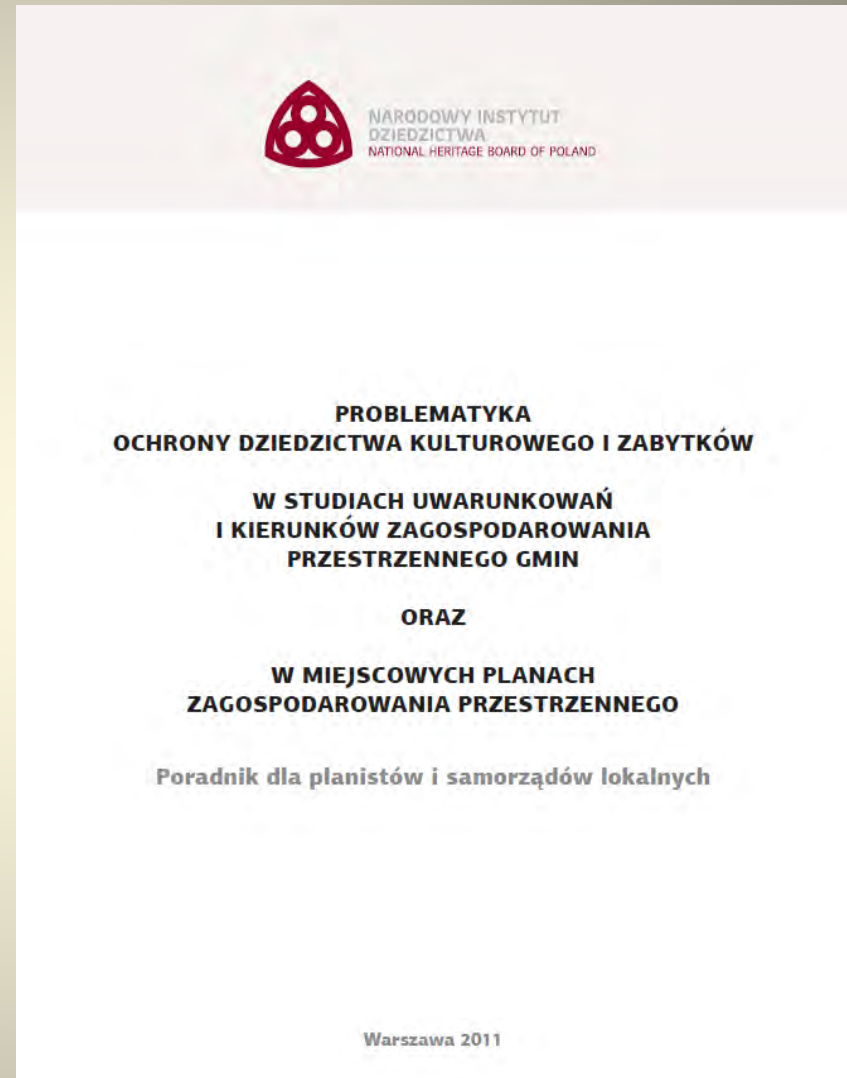
- 7.1 Registration in register of monuments
- 7.2 Recognition as a monument of history
- 7.3 Creating of cultural park
- 7.4 Established protection in local developing plan (asp. art. 37a obliges directors of maritime offices to develop draft special management plan for the sea areas)

International conventions

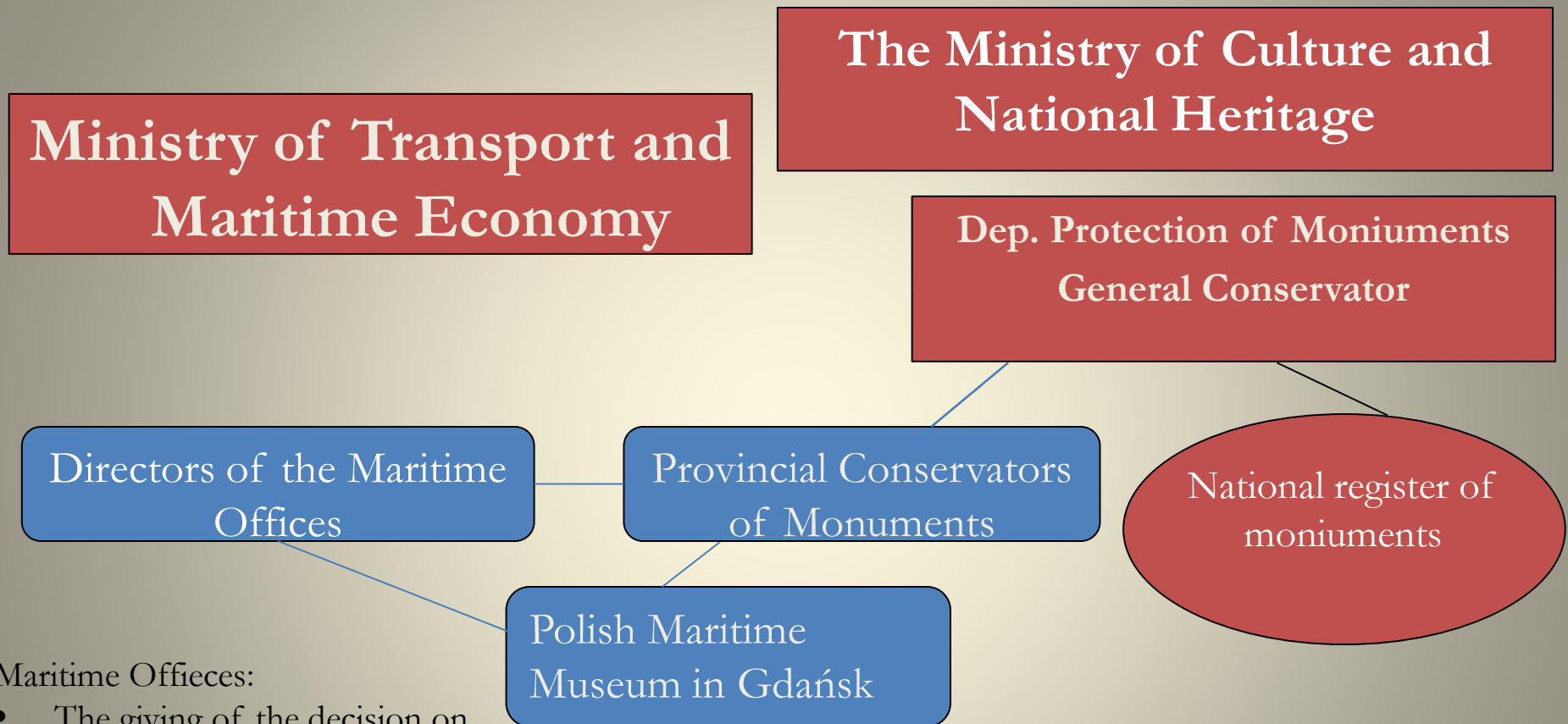
- The convention in the case of the protection of the world cultural heritage and natural UNESCO, Paris 1972 (Dz. At. with 1976r., No.32, poz.190), obliges to the establishment of the effective system of the protection {guard} of the cultural heritage and natural about exceptional
- The European convention about the protection of the archaeological heritage , La Valetta 1992 (Dz. At with 1996 No. 120, poz.564),
- The European landscape convention , Florence 2000 (Dz. At. with 2006 , No. 14, the item 98),

The guides for planners and local governments

PROBLEMS OF THE PROTECTION OF
THE CULTURAL HERITAGE AND ANCIENT
MONUMENTS IN STUDIES OF
CONDITIONINGS AND DIRECTIONS OF
SPATIAL STOCKINGS THE COMMUNES
AND IN LOCAL SPATIAL PLANS



The Structure of the UCH Management in Poland

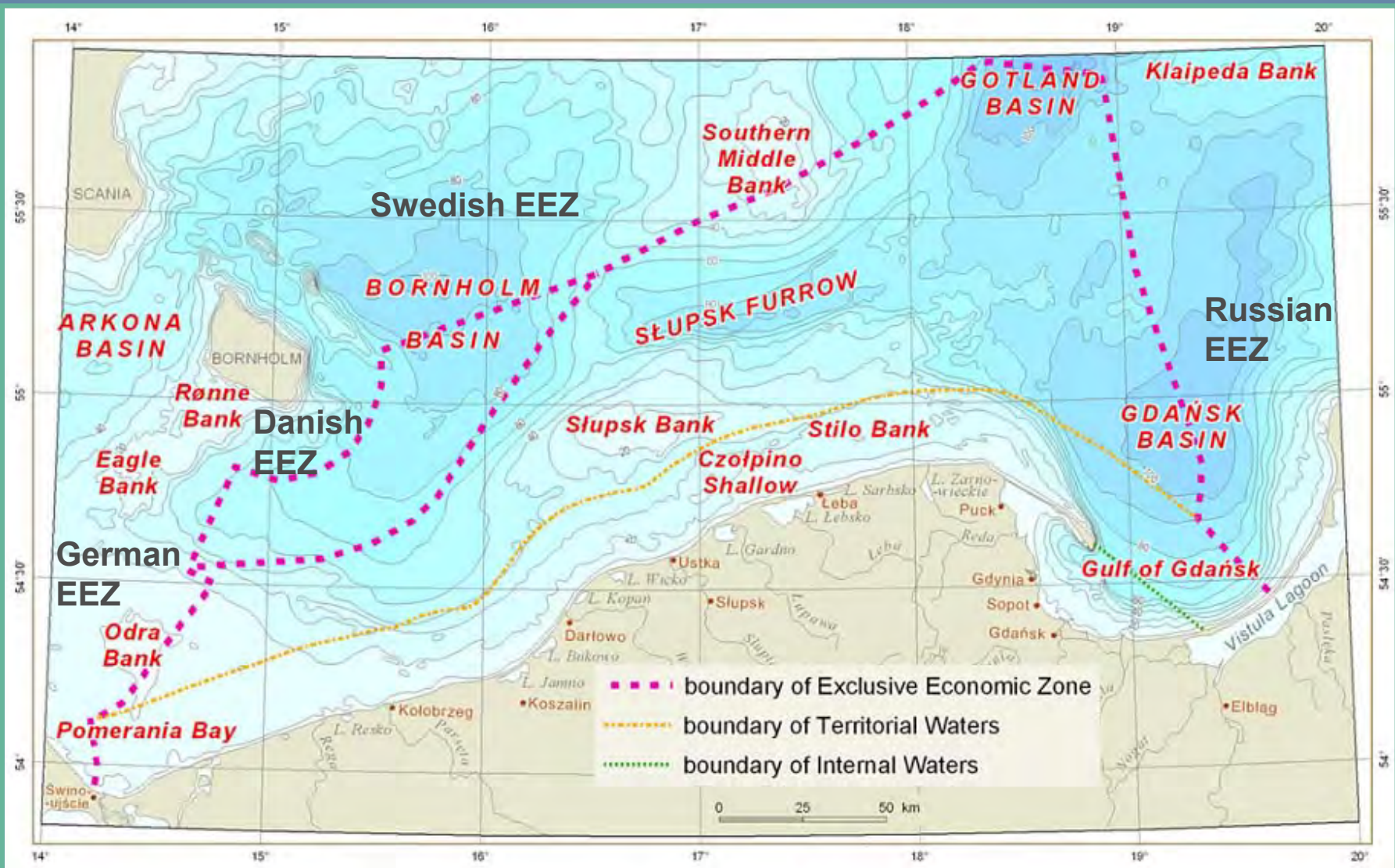


Maritime Offices:

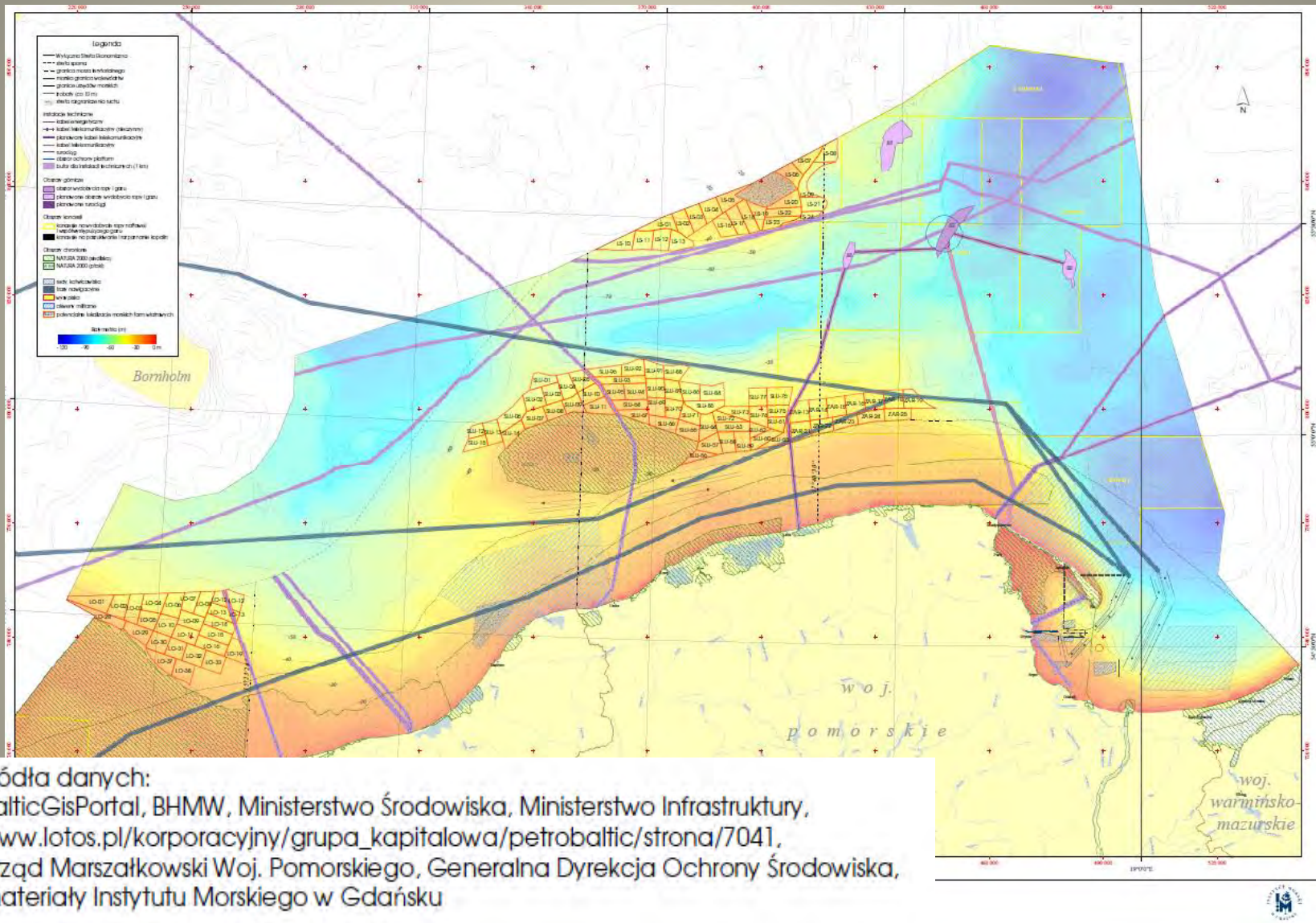
- The giving of the decision on actions at wrecks (the search, archaeological research, the recreational diving etc.)
- Keeping the records of UCH

Muzeum:

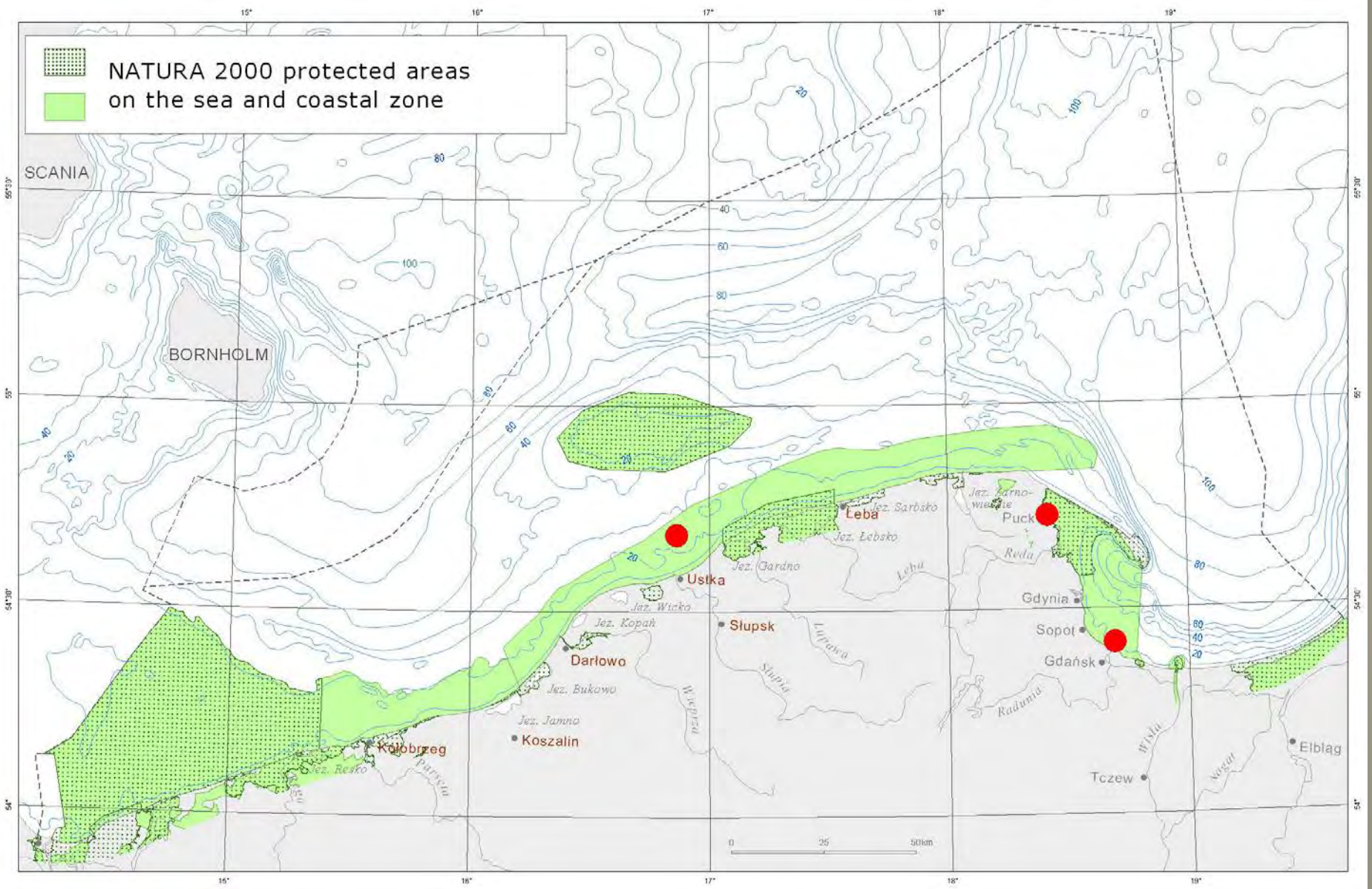
- Register of underwater archaeological sites
- competences of the Pomeranian Provincial Conservator of Ancient Monuments within the range UCH protections
- archaeological researches
- Education



The map of potential locations of wind farms

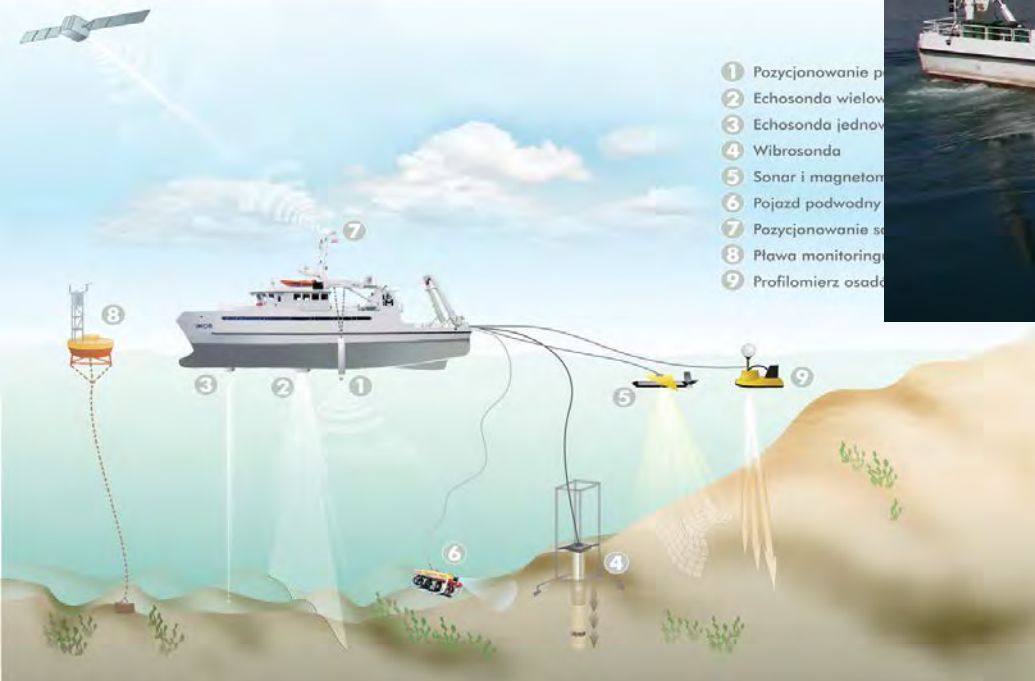


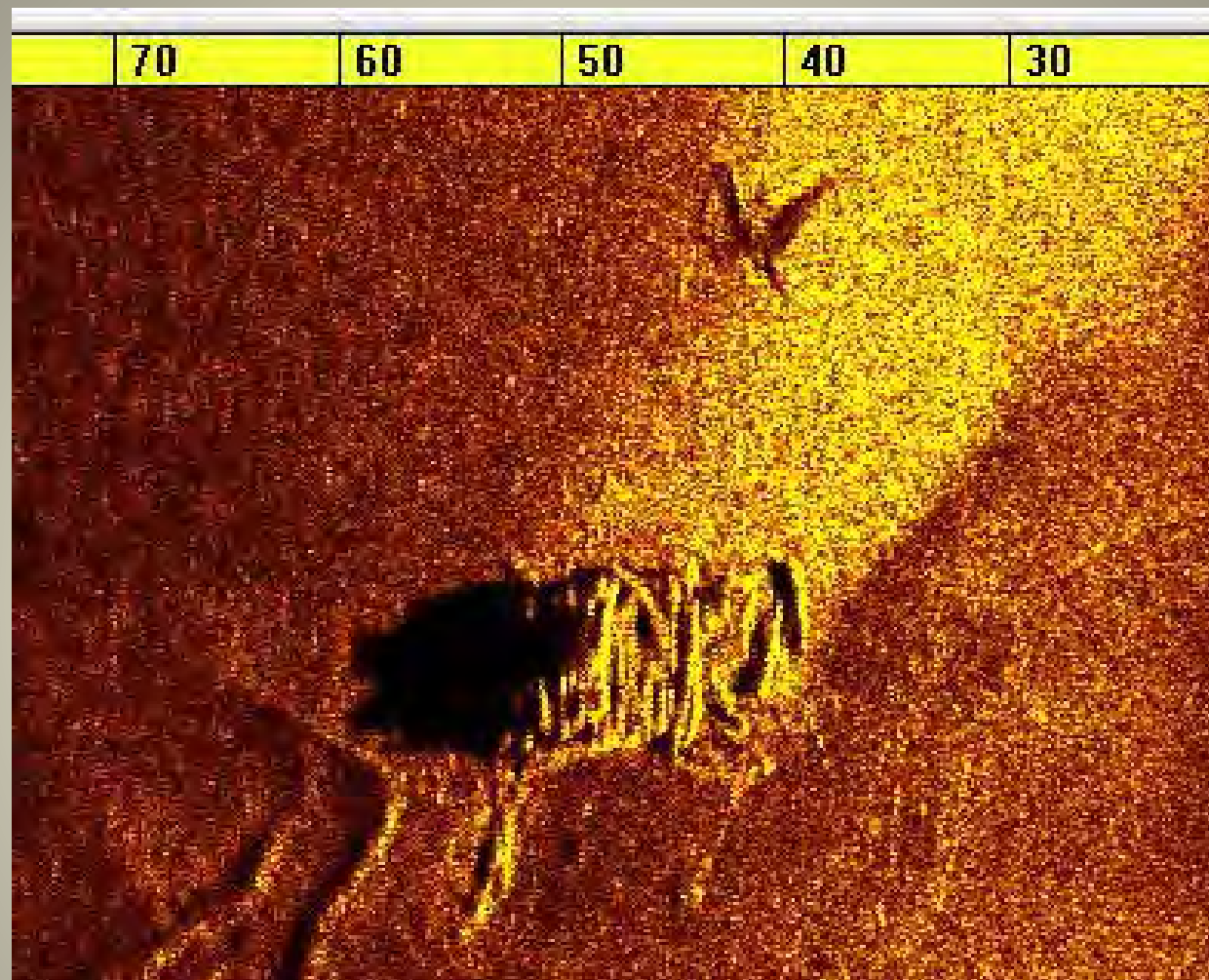
źródła danych:
BalticGisPortal, BHMW, Ministerstwo Środowiska, Ministerstwo Infrastruktury,
www.lotos.pl/korporacyjny/grupa_kapitalowa/petrobaltic/strona/7041,
Urząd Marszałkowski Woj. Pomorskiego, Generalna Dyrekcja Ochrony Środowiska,
materiały Instytutu Morskiego w Gdańsku



THE SAILING SPECIALISTIC SEA-LABORATORY

r/v IMOR





Maritime Spatial Planning as Tool for
Underwater Cultural Heritage Management
June 2013



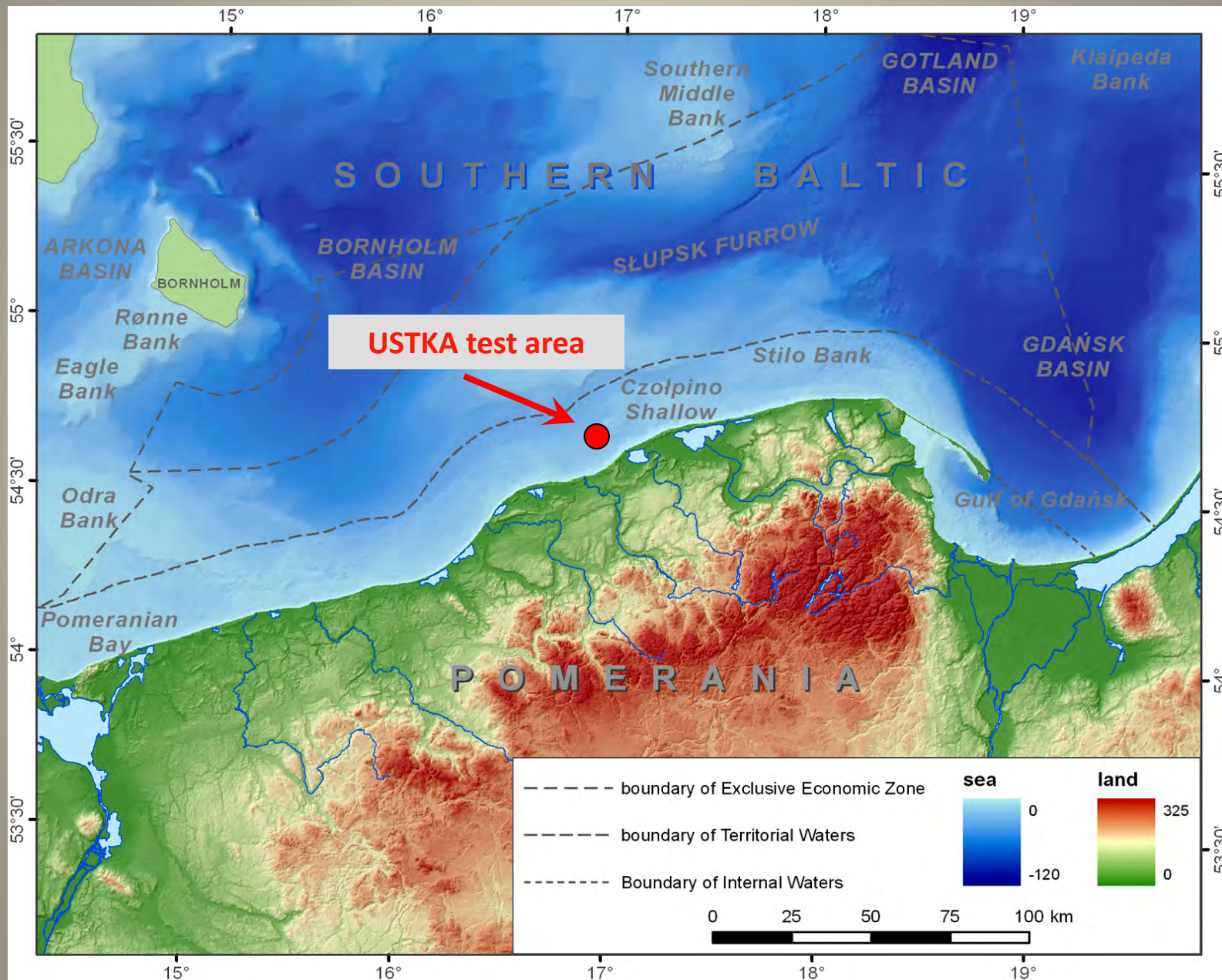
Maritime Spatial Planning as Tool for
Underwater Cultural Heritage Management

June 2013





TEST AREA LOCALIZATION

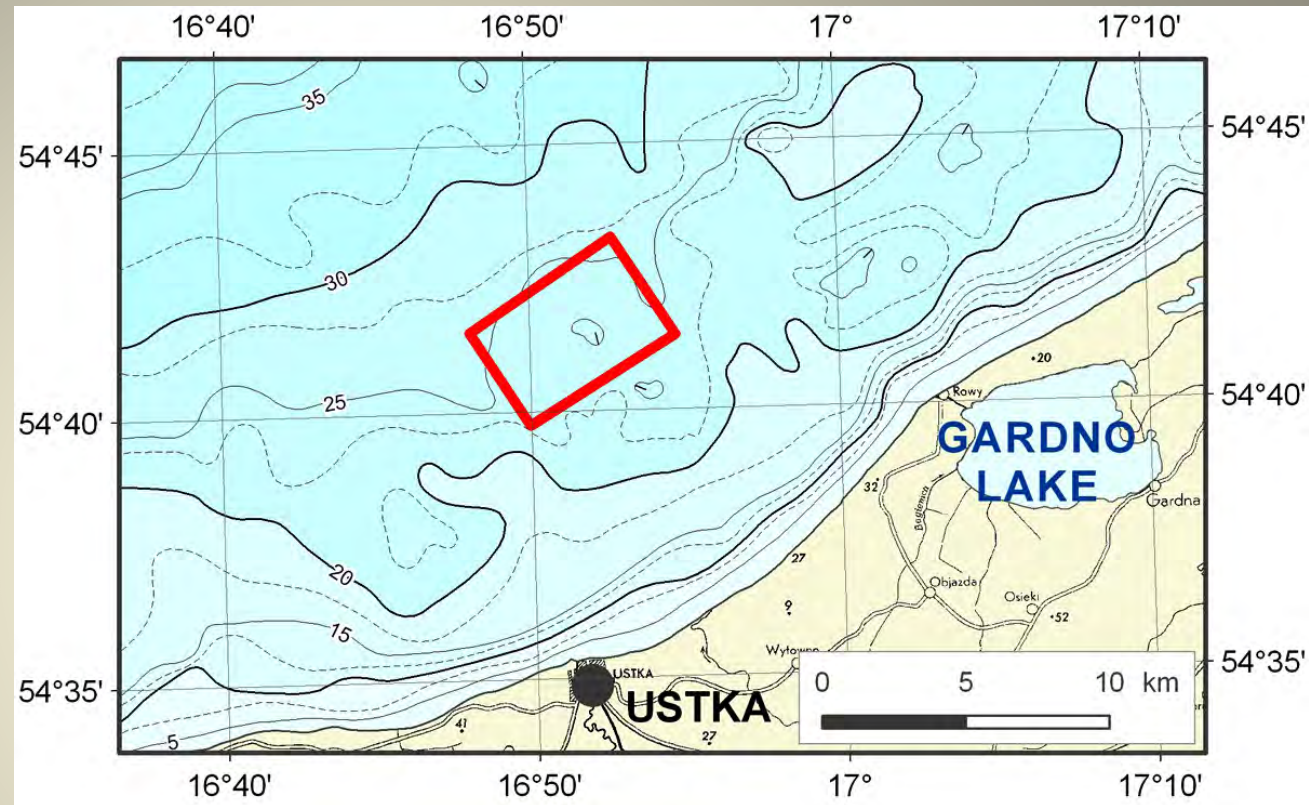


USTKA TEST AREA - submerged forest

Area: 15 km² (5x3 km)

water depth: 20 - 27 m

distance from the coast:
8 -10 km



The aim of investigation: reconstruction of palaeolithic/mezolithic landscape

- geological characterization of the site
- determination of age and paleoenvironmental characterization of the submerged forest
- searching for potential archaeological sites

USTKA TEST AREA - submerged forest



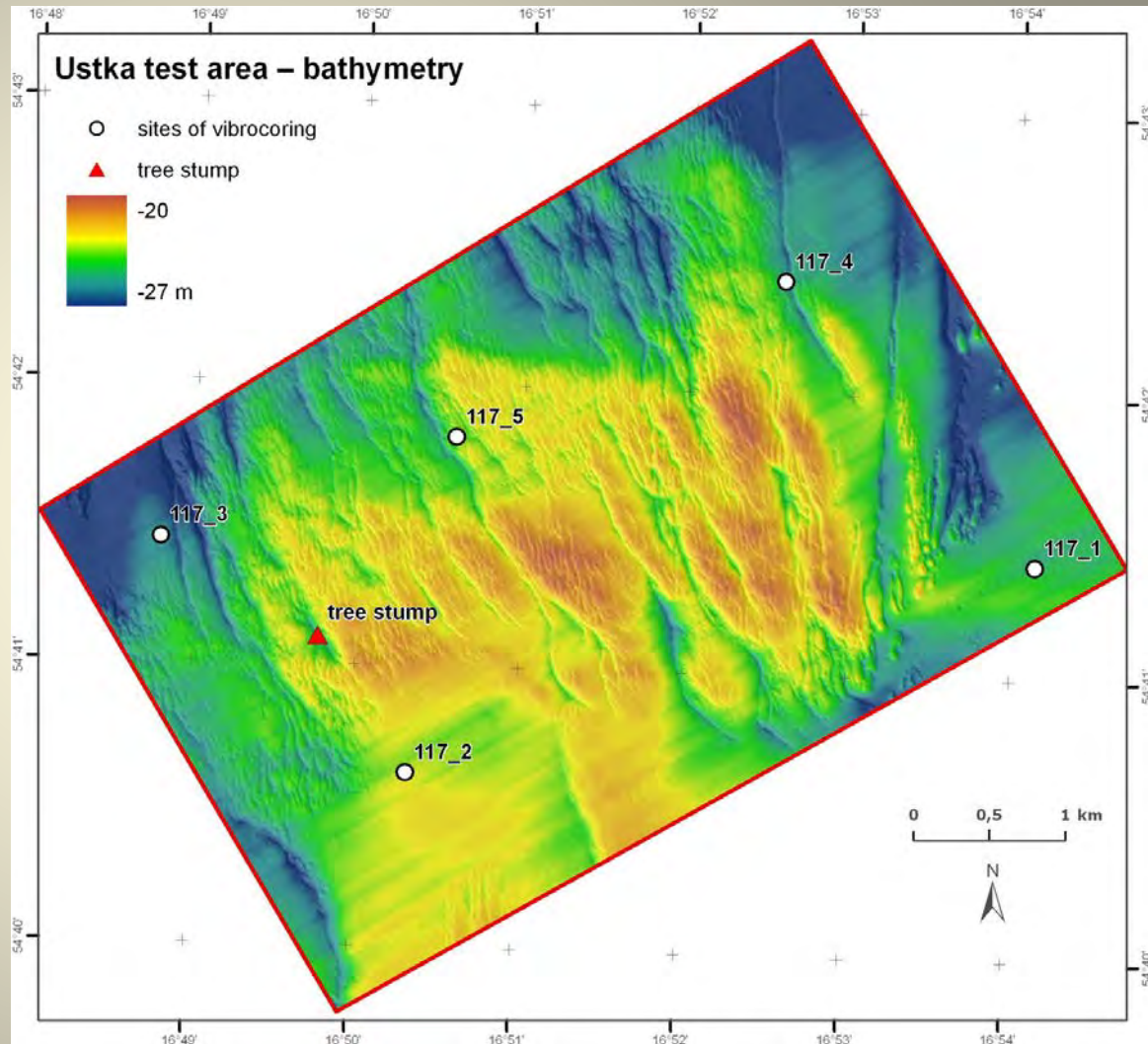
Rooted tree stumps

USTKA TEST AREA - submerged forest

Preliminary results of investigations

- multibeam echosounding
- vibrocoreing
- side-scan sonar profiling
- seismoacoustic (boomer) profiling
- scuba-divers inspections

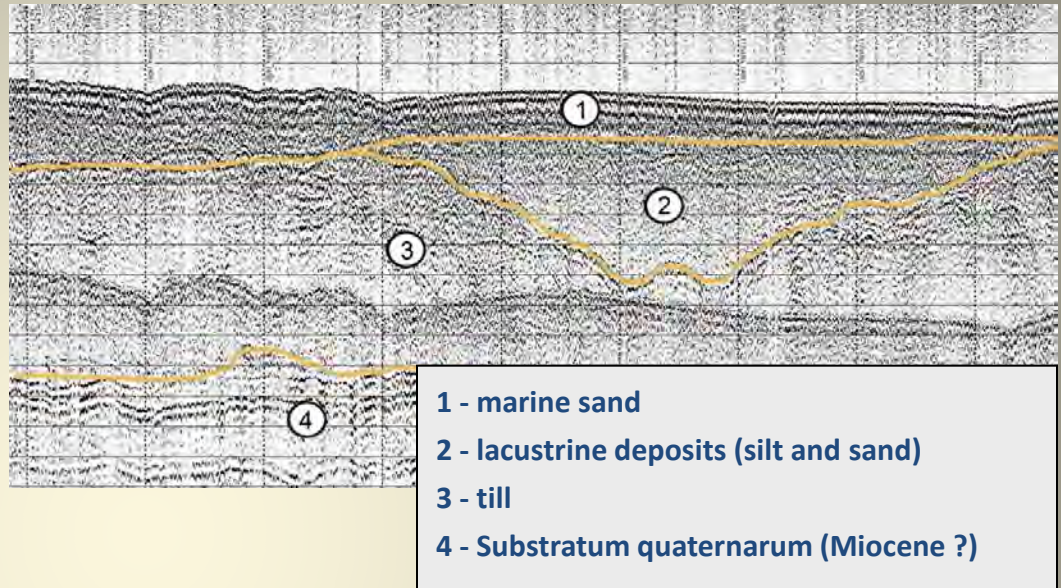
*Bathymetric map (DTM)
of the Ustka test area
based on multibeam
echosounding data*



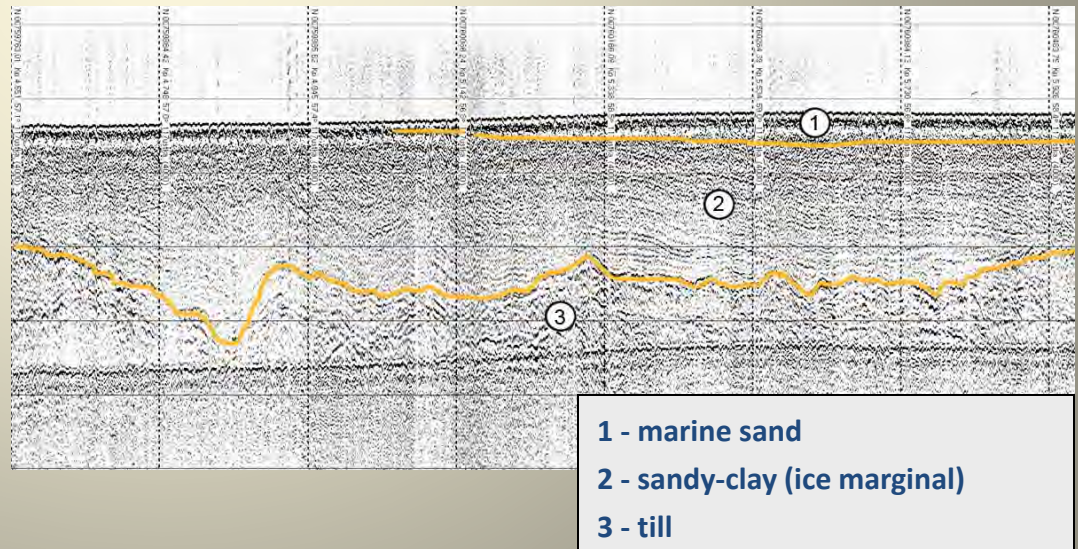
USTKA TEST AREA - submerged forest

Preliminary results of investigations

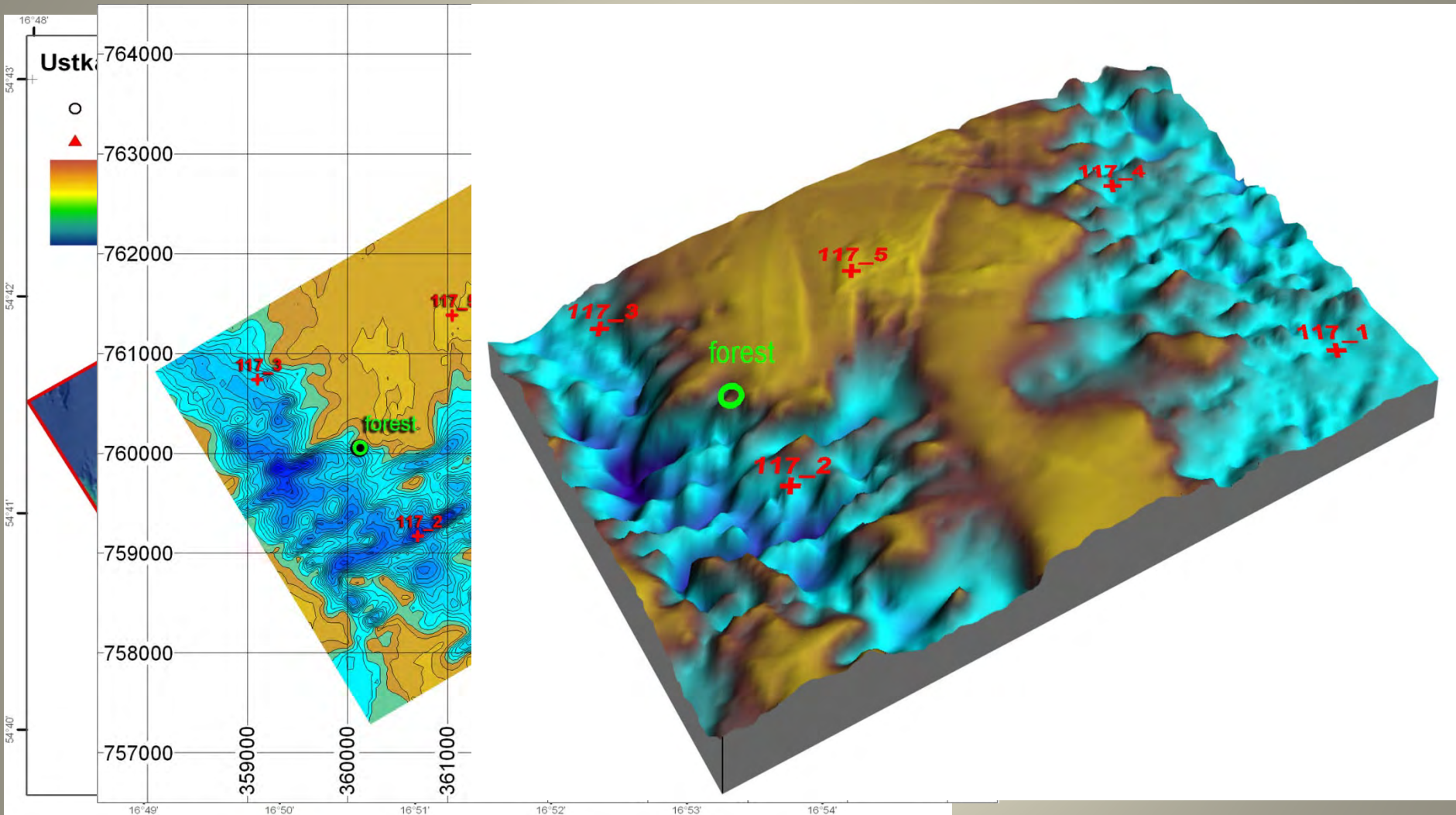
- seismoacoustic (boomer) profiling



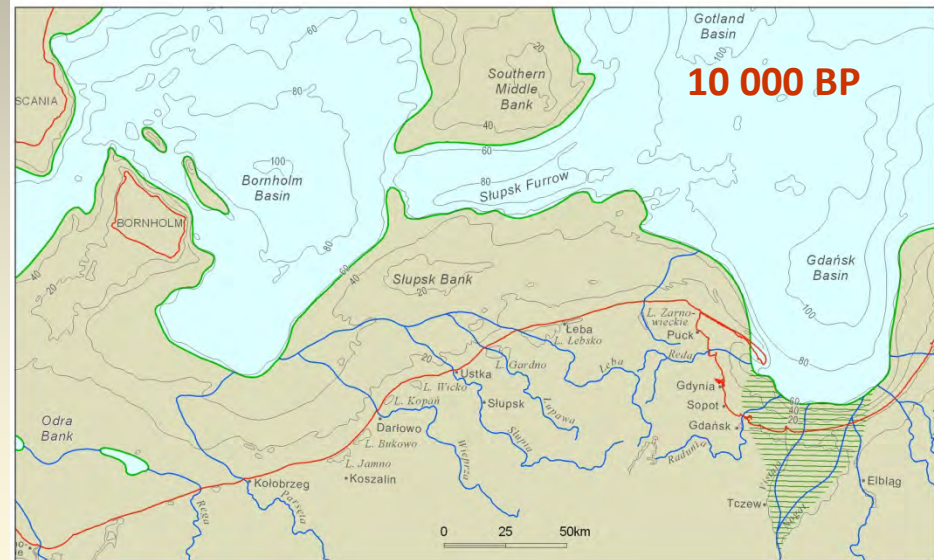
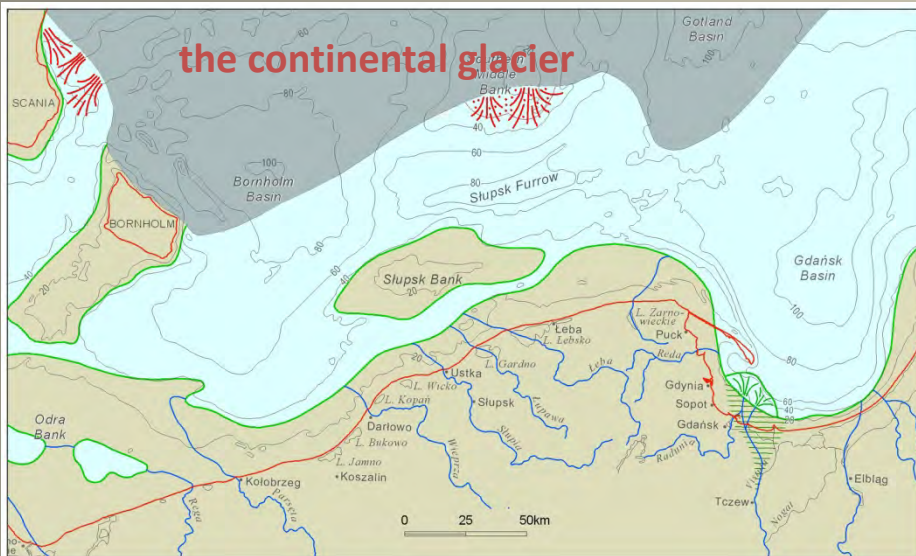
*Fragments of seismoacoustic
(Boomer) records with
geological interpretation*



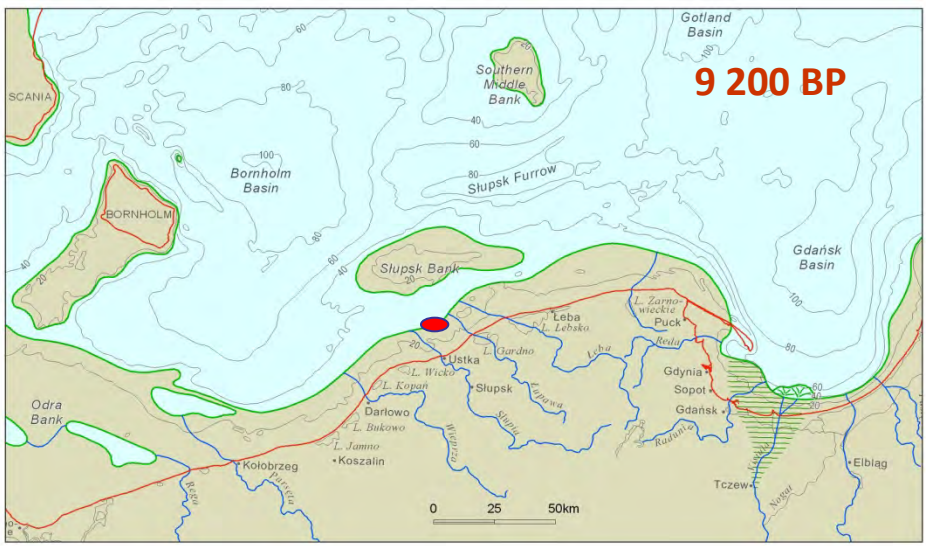
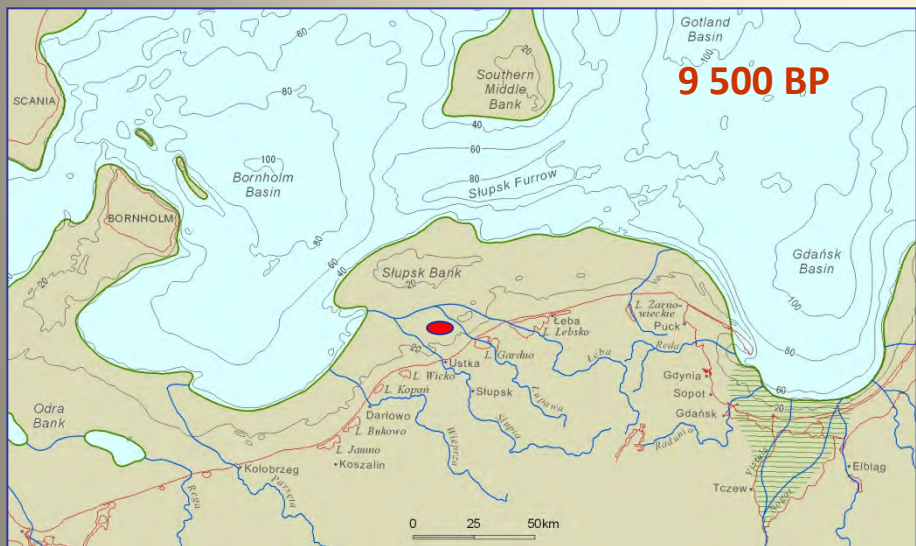
MACHU - Obszar testowy USTKA – zatopiony las



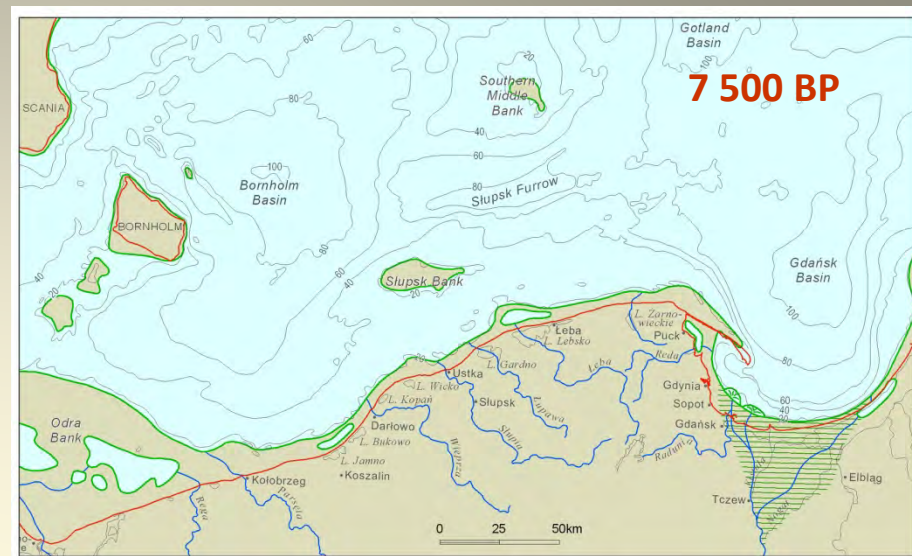
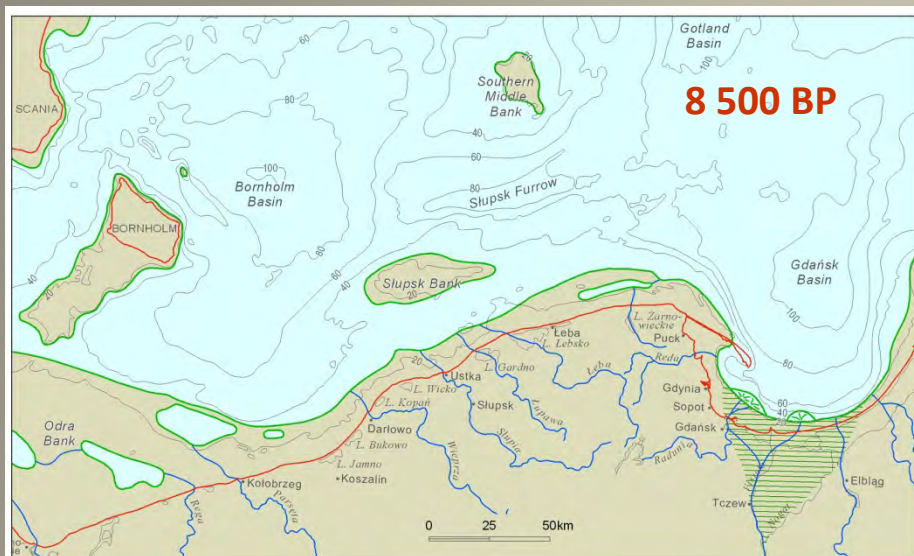
Paleo-powierzchnia depozycji osadów jeziornych i morskich (powierzchnia osadów gliniastych)



10 000 lat BP – the coastline was advanced north, and the sea level was approx. 50 m below the mark today's Baltic.

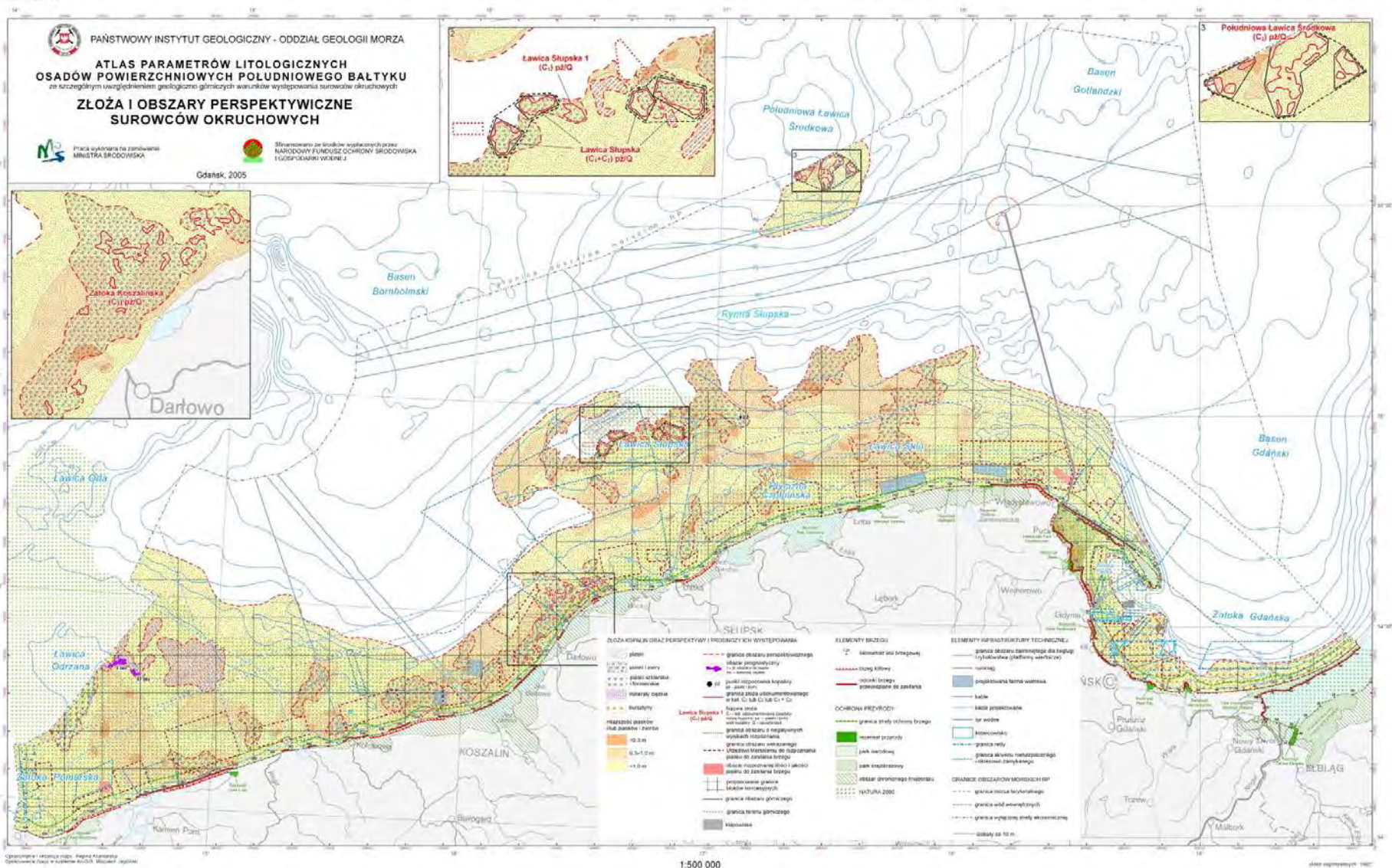


9500-9200 lat BP – the express growth of the water level.



The extraction of aggregates

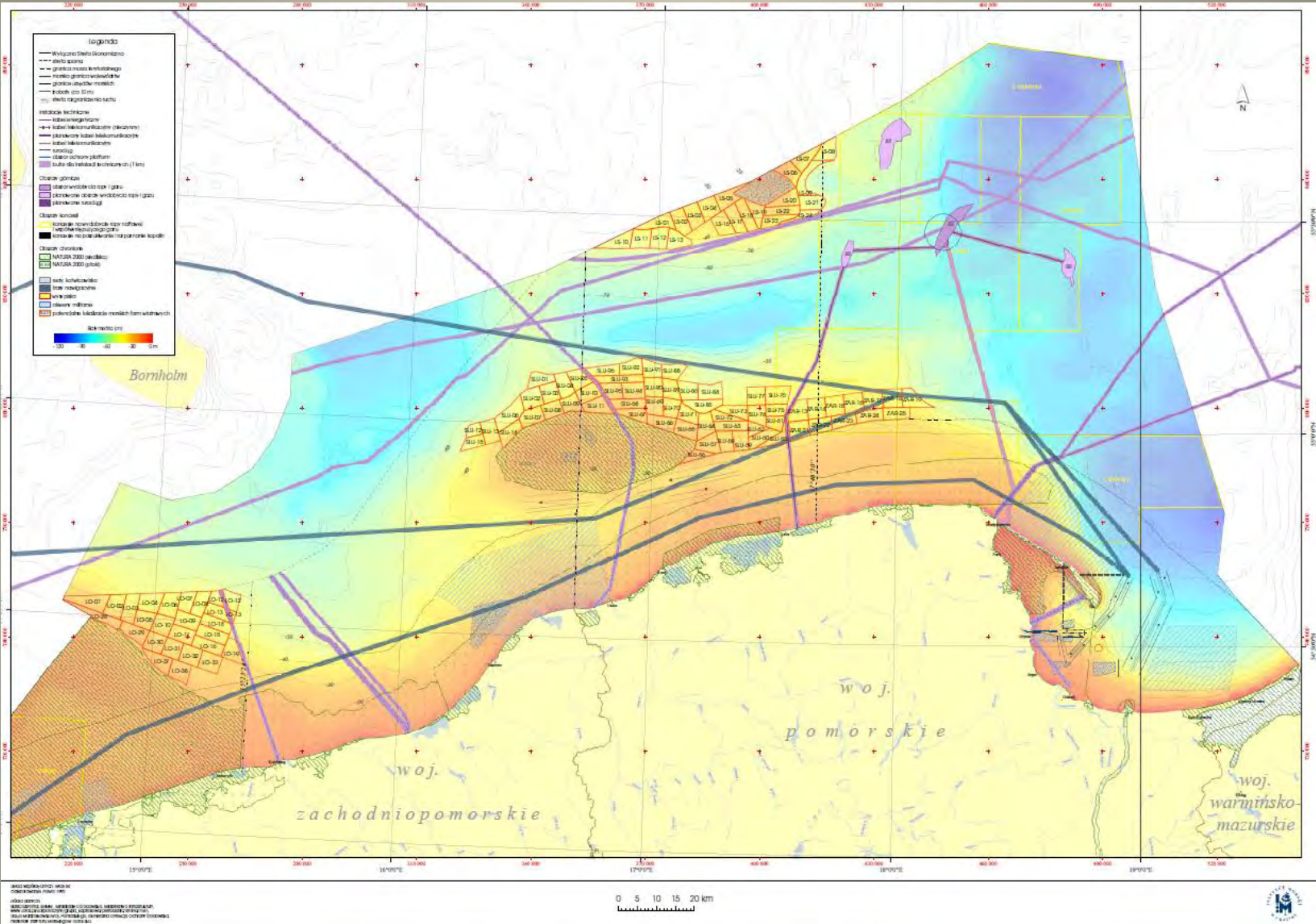
Tablica nr 17

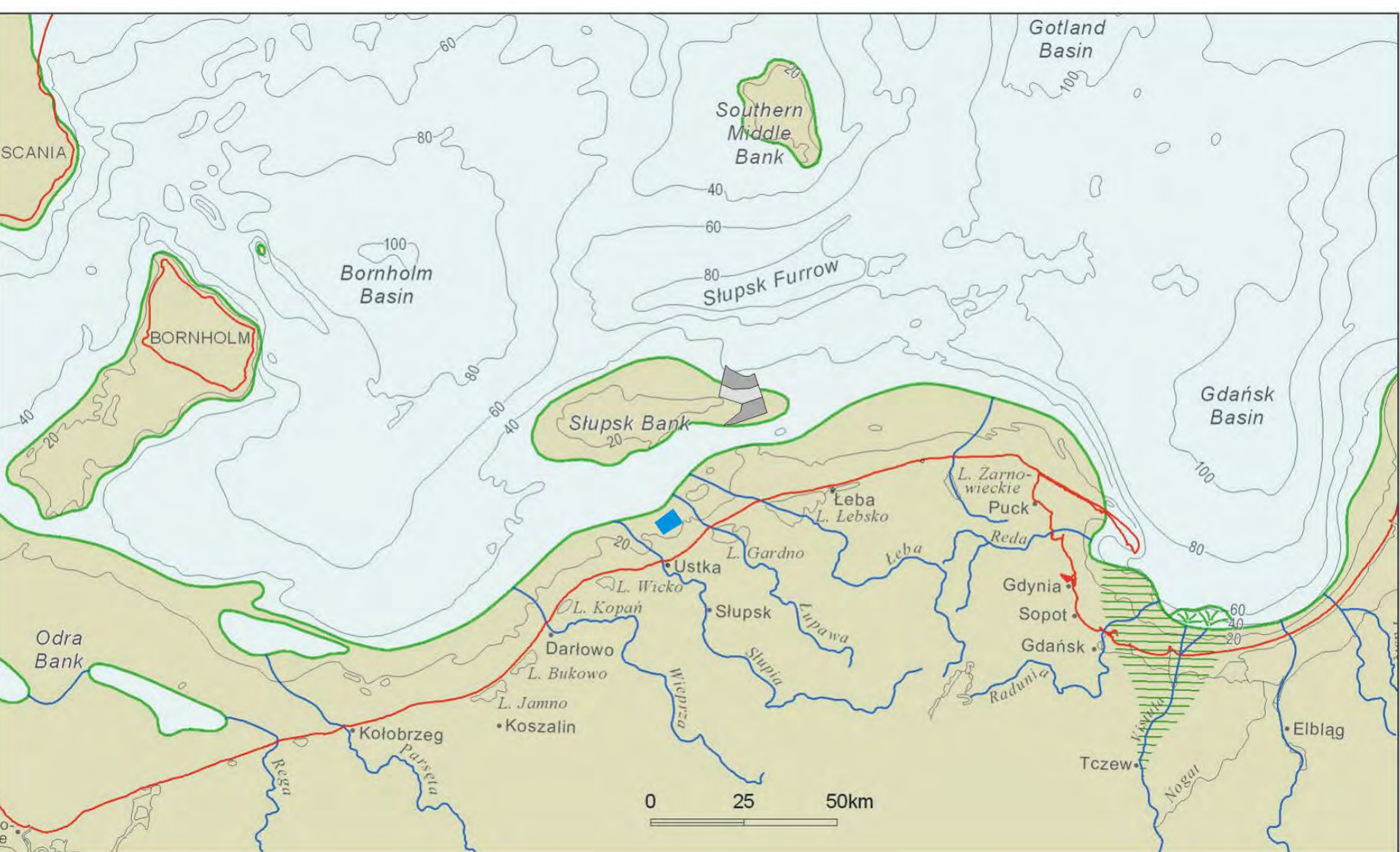


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The map of potential locations of wind farms

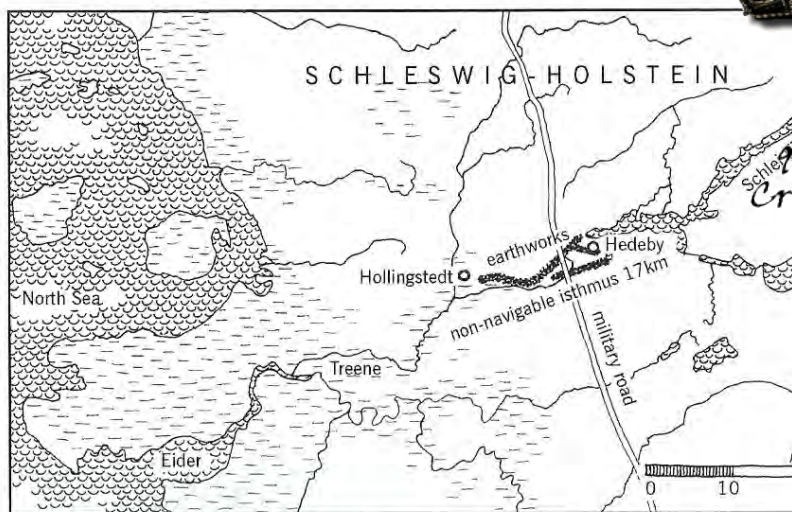
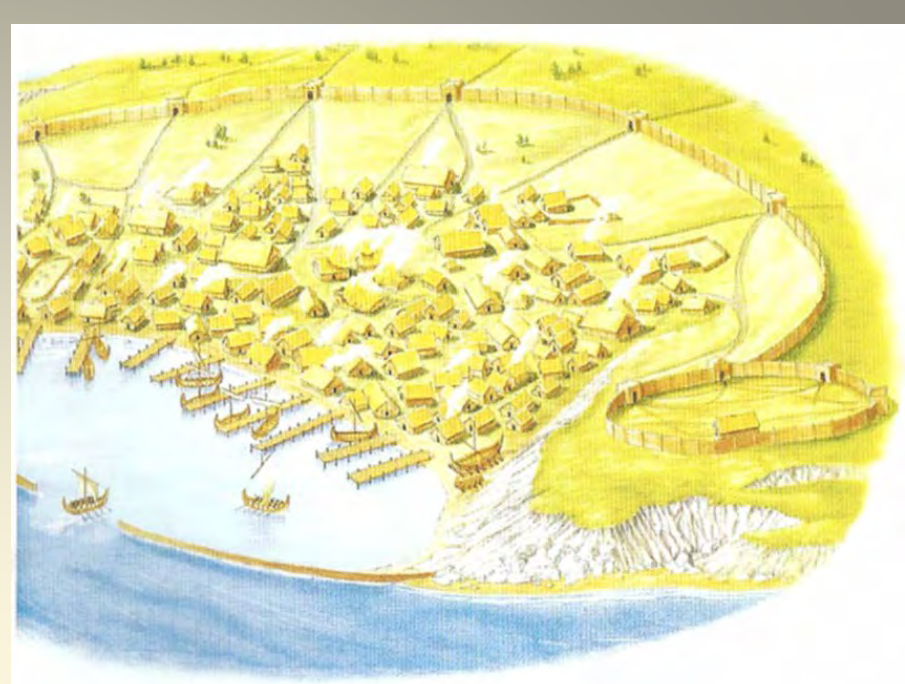






THE NORTH
SEA AND ITS
EARLY TRADING
PORTS

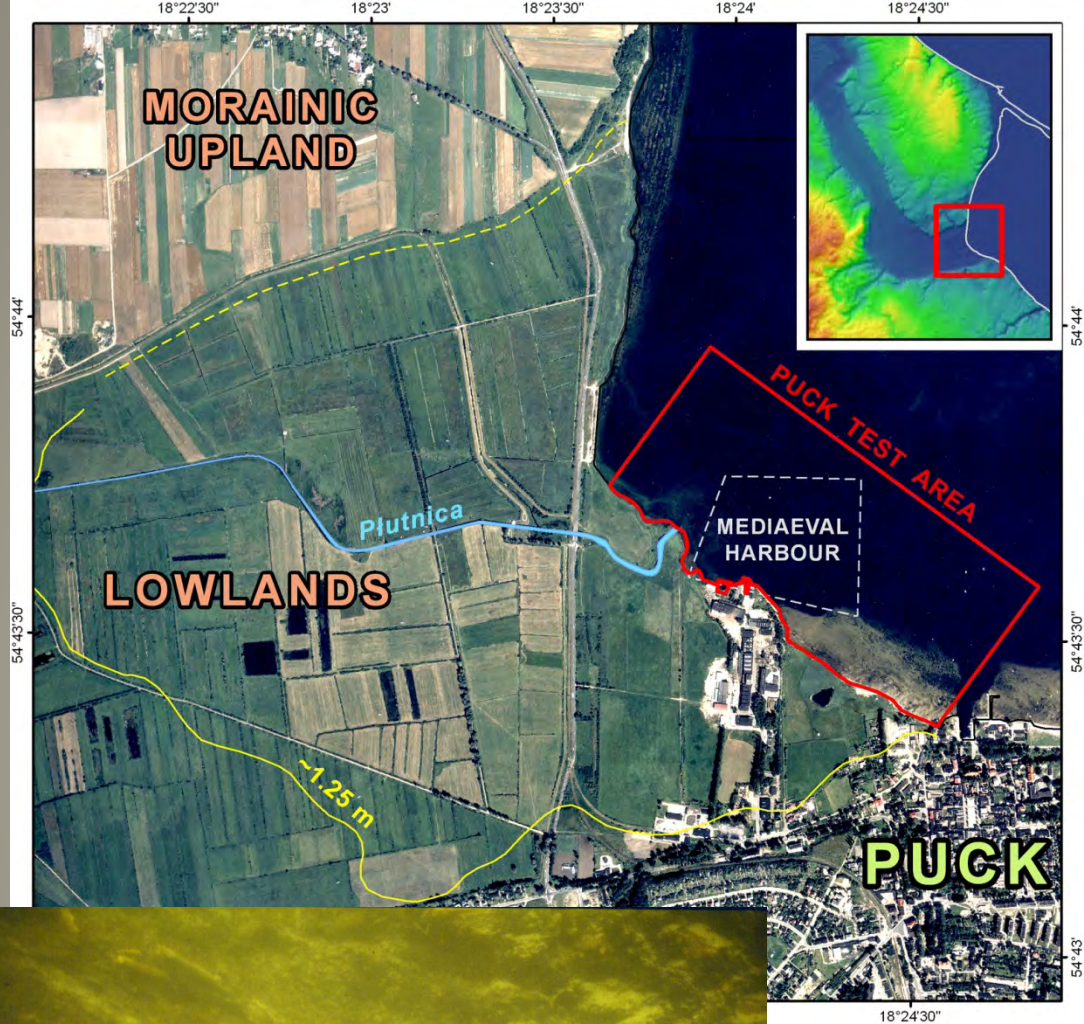
Harbours and trading roads in the past



From the Eider estuary ships could sail upriver to Hollingstedt, from where goods transported 17 km overland to Hedeby.



9th Century
Crucifix, Birka



GDĄŃSK TEST AREA – roadstead of old harbour



The reconstruction of the shoreline migration have been done basing on the old maps from 1613 – 1997:

1613 year

1674 year

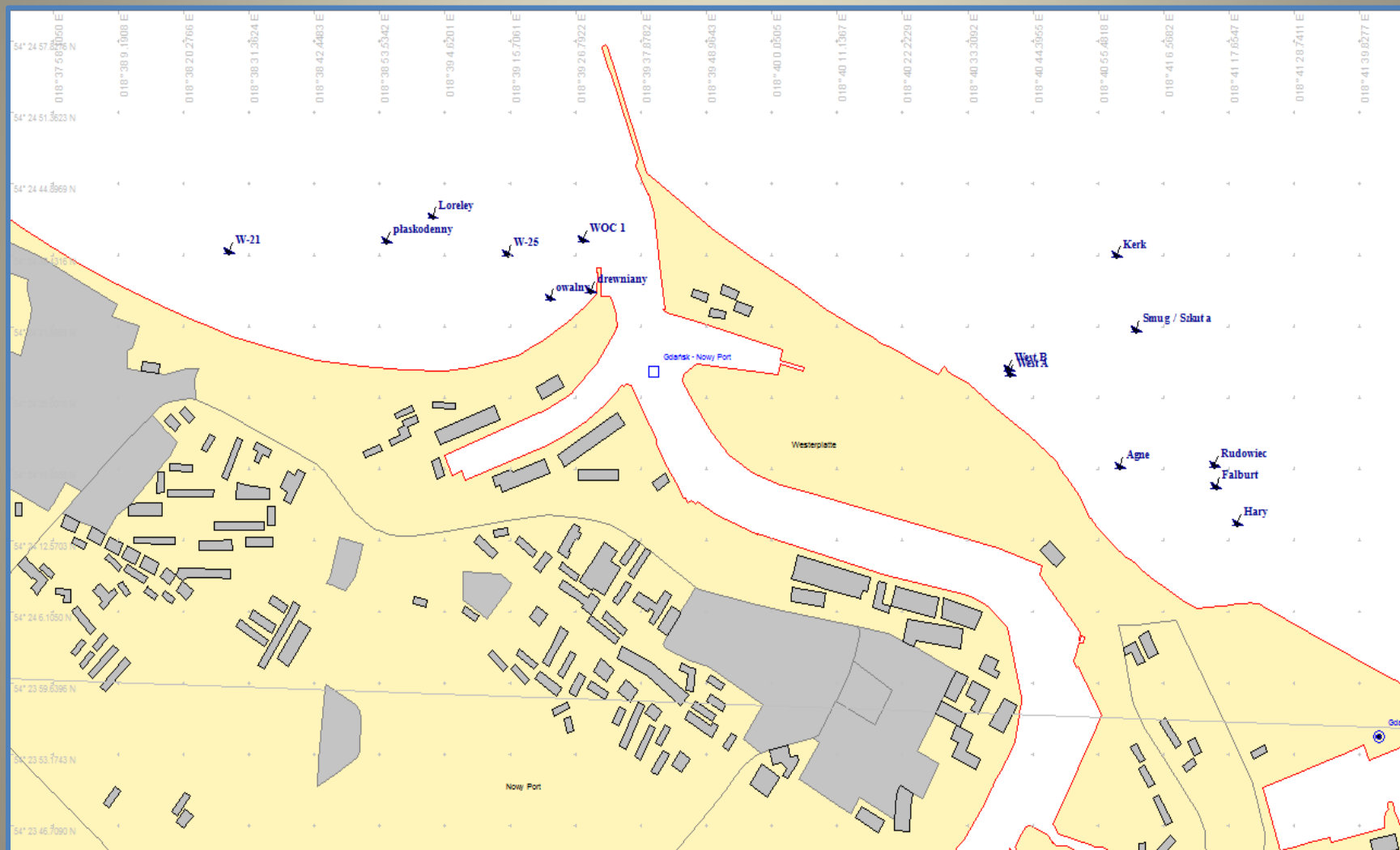
1701 year

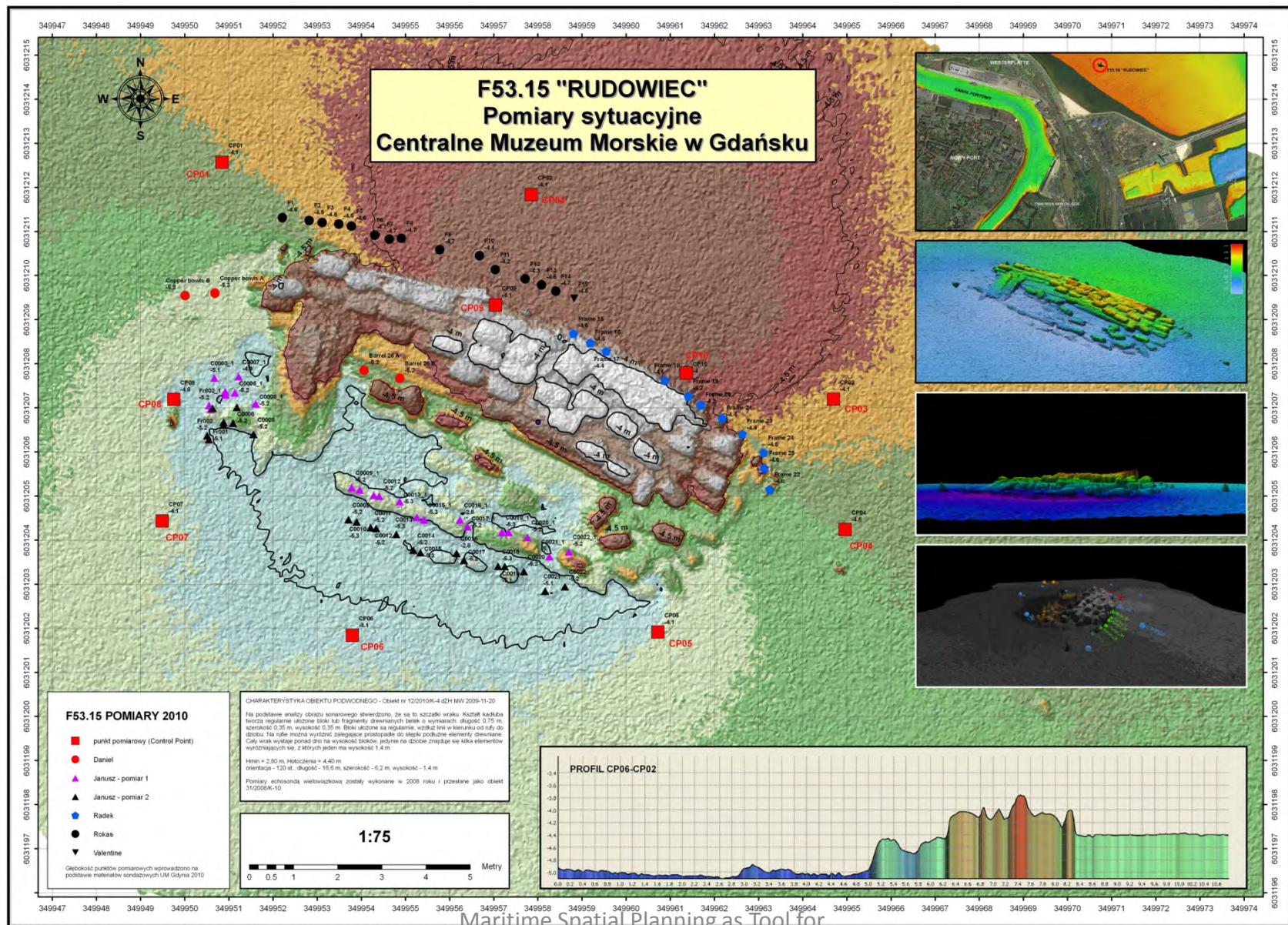
1761 year

1815 year

After W.Jeglinski

Wrack sites around Gdańsk Harbour 2013





Układ odniesienia - WGS-84; odwzorowanie - UTM strefa 34N; Materiał źródłowy: materiały pomiarowe Centralnego Muzeum Morskiego w Gdańsku; materiały pomiarowe udostępnione przez Biuro Hydrograficzne Marynarki Wojennej RP oraz Urząd Morski w Gdyni

Conclusion

- Responsibilities are established for the care of the historic environment;
- Find sites first - only for professional surveyors of the seabed
- Ratify international conventions (UNESCO convention about underwater cultural heritage Paris 2001)
- Education for Public and Officials
- the elaboration of understandable standards and guides