



BUNDESAMT FÜR
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UND
HYDROGRAPHIE

BSH - Federal Maritime and Hydrographic Agency - on duty for shipping and Seas

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21.01.2010





Bernhard-Nocht-Straße, Hamburg



Neptunallee, Rostock

Infrastructure



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- Two headquarters in Hamburg and Rostock
- About 850 employees
- Five vessels (for hydrographic surveys, wreck search, monitoring and research)
- library (160.000 volumes) about shipping and sea
- Printing centre for nautical charts
- Chemical laboratory
- Budget of about 60 million Euro



Fields of activity



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- Safety of navigation and maritime security
- Nautical and hydrographic information services
- oceanographic information and services (warning services, marine environmental and climate monitoring)
- Environmental protection in maritime transport
- General services to shipping
- Marine spatial planning / approval of offshore facilities

Safety of Navigation



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- Type-testing and approval of navigational and radiocommunications equipment:
 - Accredited testing laboratory for state-of-the-art systems
 - German „Notified Body“ under EU Regulation
- Inspection and control of navigational equipment
- Market surveillance of navigational equipment (EU Directive)
- Surveillance of Recognised Organisations



Maritime Security



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- Implementation of ISPS Code (International Ship and Port Facility Security Code)
- Implementation of relevant security systems
- German companies and vessels under the German flag:
- approval and control of documentation, equipment, training
- Co-operation with federal authorities, federal states and ports



Hydrographic Surveys and Wreck Search



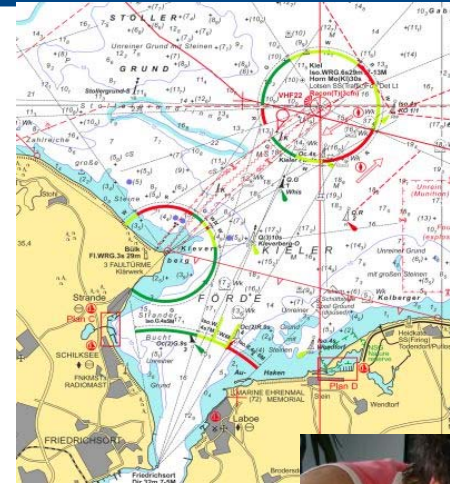
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- Surveys of the German sea areas (57,000 km²)
- Systematic surveys at intervals between 1 and 25 years
- Covering about 30.000 to 40.000 km per year
- Search for wrecks and underwater obstructions (about 1,800 known positions)
- About 200 underwater obstructions investigated per year, including on average 40 hitherto unknown wrecks



Nautical Information System

- Issue of official navigational charts
- 16 small-craft chart series
- 50 nautical books and other nautical publications
- Weekly Notices to Mariners
- Nautical warnings
- Official Electronic Navigational Charts (ENCs) for ECDIS (Electronic Chart Display and Information System)
- Development of a Hydrographic Information System

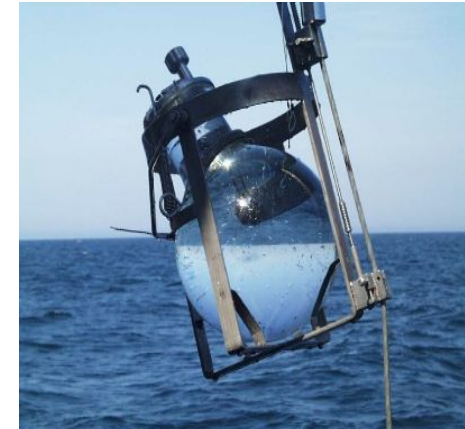


Oceanographic Surveys



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- Monitoring of water quality (chemical, physical, biological)
- Automatic monitoring network (MARNET)
- Radioactivity monitoring network
- Remote sensing via satellites
- Numerical models for the North and Baltic Seas
- Participation in research projects to improve knowledge and understanding of the oceans
- Marine climate studies (North Atlantic Ocean)



Oceanographic Services



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- Water level forecasts
 - Storm surge warnings
 - Tidal predictions
 - Ice service
- ⇒ 24-hour services
- Centre for marine geodata incl. Maritime Environment Database as part of German Oceanographic Data Centre



- Contribution to international quality status reports
- Prosecution of marine pollution caused by shipping (MARPOL / HELCOM)
- Computer based model for drift forecasts of marine pollutants
- Computer based system for identification of oil spills
- Implementation of Ballast Water Convention
- Participation in Antarctic Treaty related matters
- Civil Liability Certificates for oil pollution damage



General services to Shipping



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- Issue and registration of mariners' certificates
- Flag Authority
 - Certificates of registry
 - International Shipping Register
- Promotion of the German merchant fleet:
 - Financial aid to reduce ancillary wage costs
 - Promotion of training
- Tonnage measurement



Marine Uses - Approval of Offshore Activities



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- Approval of projects in the Exclusive Economic Zone (EEZ) of the North and Baltic Seas:
 - Wind turbines
 - Submarine cables, pipelines
 - Research activities
- implementation of planning instruments for spatial planning



Maritime spatial planning



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**The sea - an
open space?**

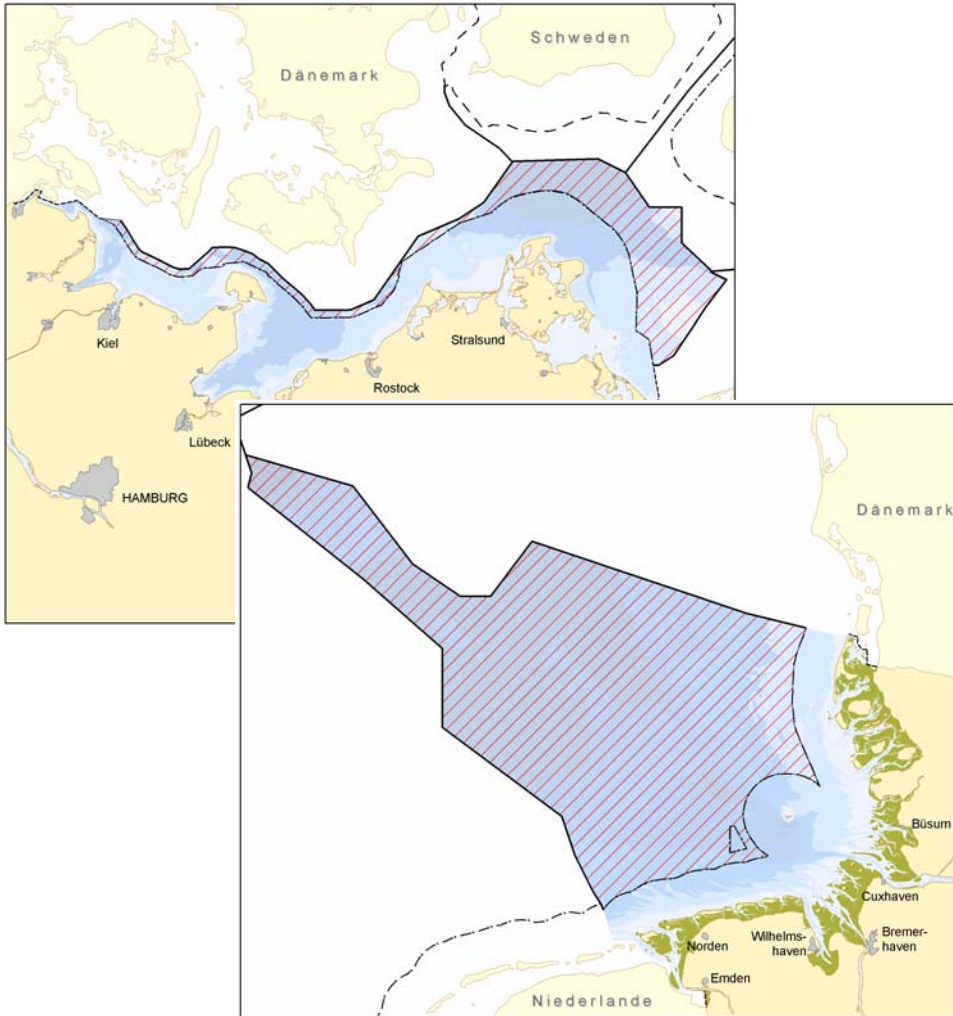
Or an intensively used area?

Dr. Nico Nolte

German EEZ



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Baltic Sea : 4.500 km²

North Sea : 28.600 km²

Traditional uses and activities

- shipping
- fisheries
- oil and gas industry
- sand and gravel extraction
- pipelines
- power & telecommunication cables
- military training
- scientific research
- nature conservation sites
- Approach of new uses like offshore-windfarms

- **Because of increasing use demands and potential conflicts between different uses and/or with marine environment protection there is a need for integrated, comprehensive sustainable management of human activities**
- **Maritime Spatial Planning** can be a supporting tool
 - forward looking
 - long-term planning gives security to stakeholders and investors
 - cross-sectoral, not fragmented
 - co-ordination of uses

The **Federal Ministry of Transport, Building and Urban Affairs** sets up in the German EEZ

- within the framework of UNCLOS -

targets (legally binding) and **principles** (guidelines that need to be particularly considered in the decision process) of spatial planning with regard to

- economic and scientific use
- ensuring safety and efficiency of maritime traffic
- protection of the marine environment.

**MSP in EEZ must respect the freedoms in the EEZ
(limited scope of MSP)**

The **German Spatial Planning Act**

(Raumordnungsgesetz – ROG), which has been made applicable to the EEZ in 2004, provides the legal base for spatial planning in this sea area.

(Mecklenburg Vorpommern has issued MSP for the territorial sea in 2005)



012°00.00'E

013°00.00'E

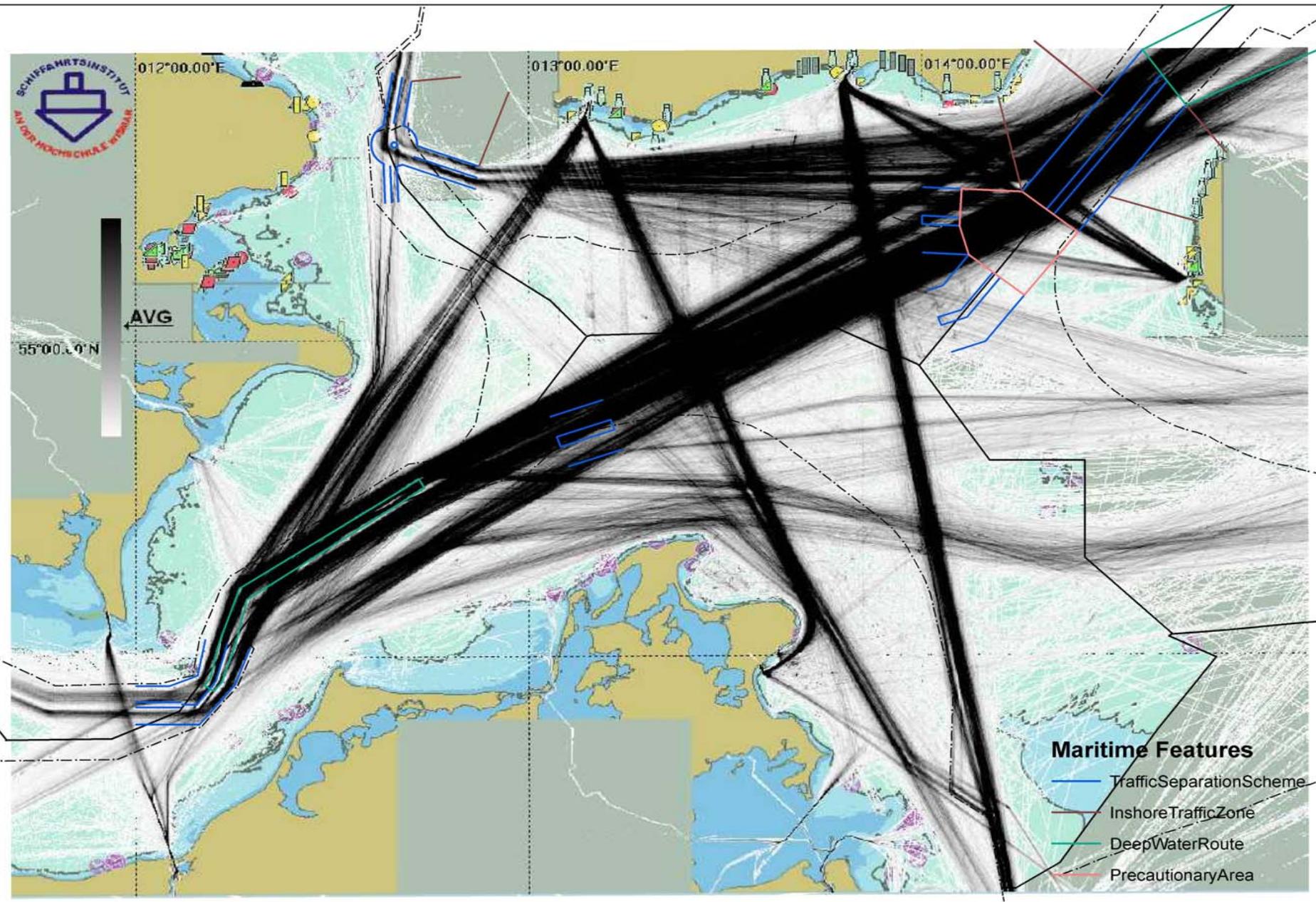
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AVG

55°00.00'N

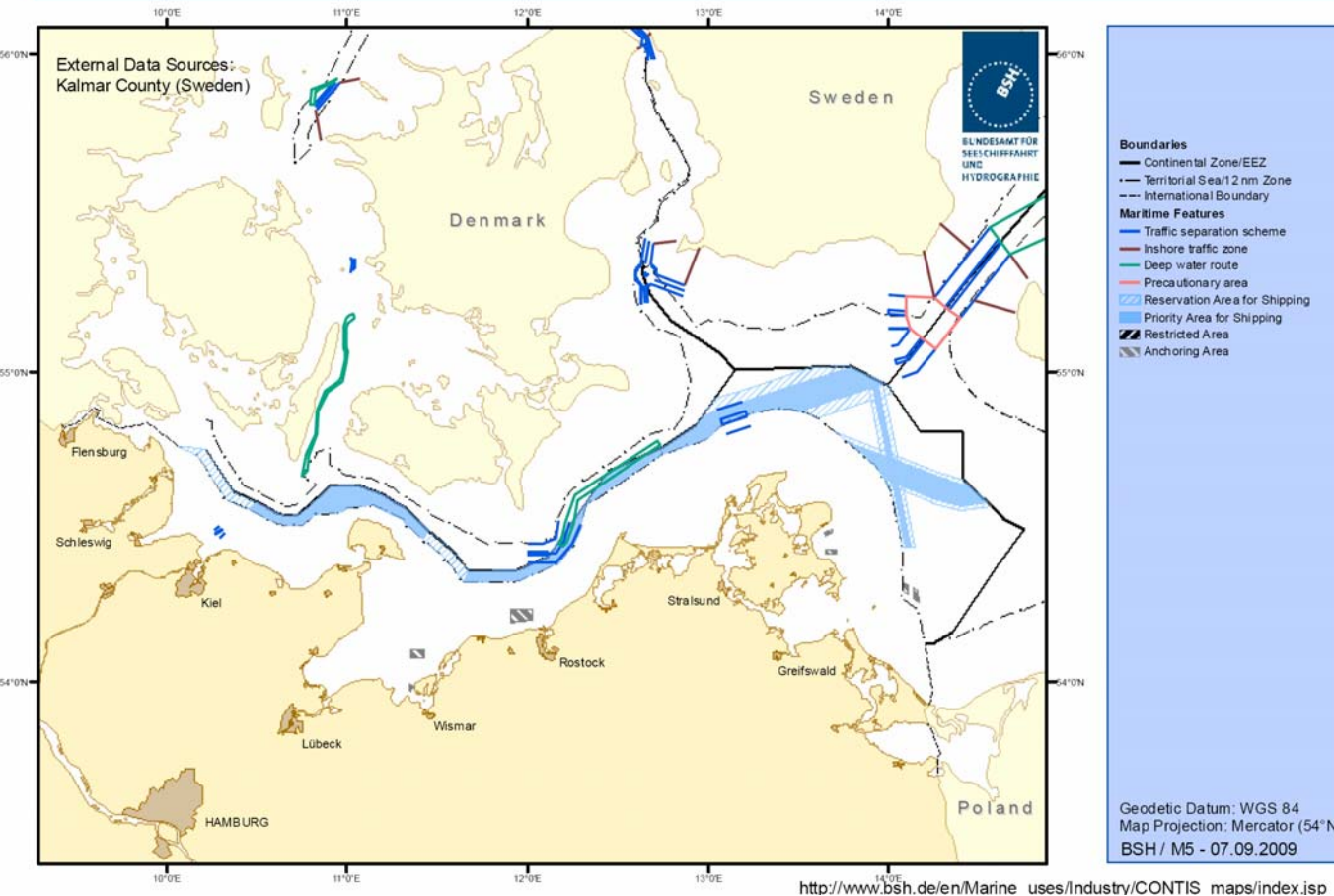
Maritime Features

-  TrafficSeparationScheme
-  InshoreTrafficZone
-  DeepWaterRoute
-  PrecautionaryArea



Steps for priorities

Baltic Sea: Maritime Features



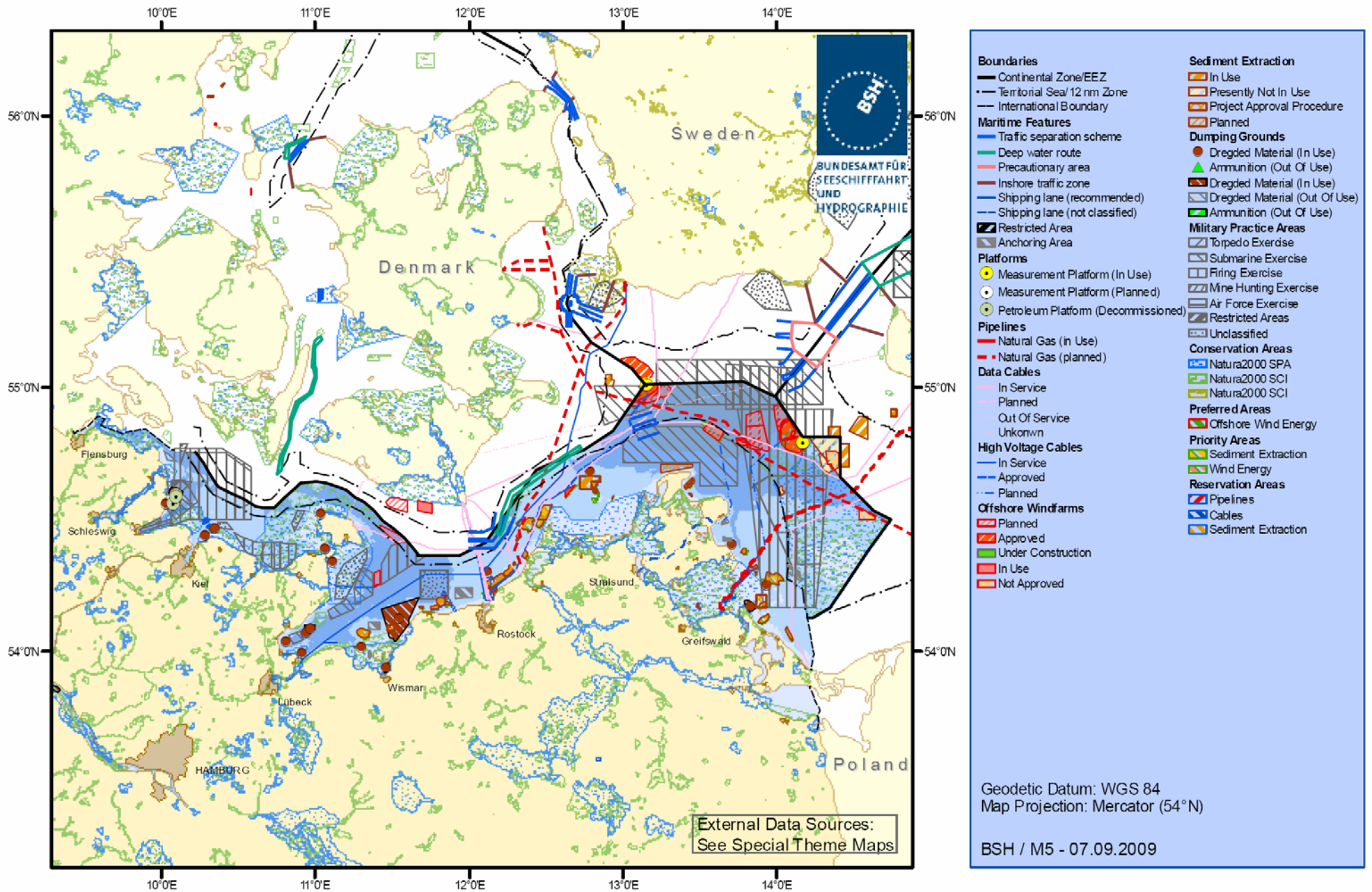
•Shipping lanes as basic structure of the draft

•priority areas: must be kept free from obstacles

•reservation areas: shipping has special weight in balancing process

•no traffic regulation!!!!
(protection of existing traffic)

Baltic Sea: Existing and Perspective Uses and Nature Conservation



The German spatial planning for the EEZ

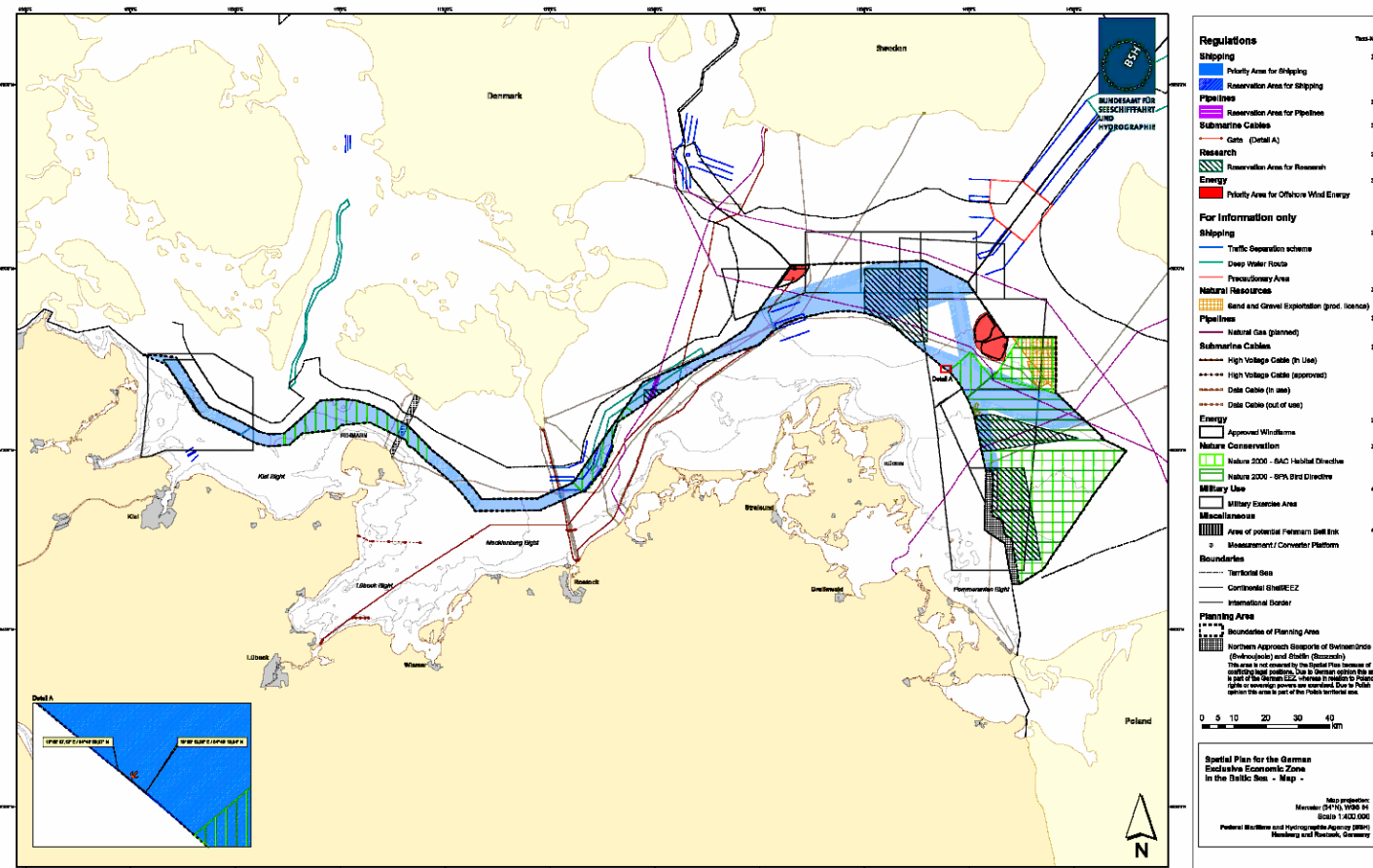


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- **procedure started in 2005**
- **BSH drafted maritime spatial plan incl. environmental report**
 - **public participation in summer 2008 (two hearings)**
 - **new round in May 2009 because of changes**
 - **legal ordinance (incl. spatial plan) set into force on 19th December 2009 for the EEZ of the Baltic Sea**

Priority areas

Spatial Plan for the German Exclusive Economic Zone in the Baltic Sea (Draft) - Map -



Priority areas
for wind energy
(red)

no turbines in
Natura 2000
areas

gates for
electricity
cables

Plans, ordinances, maps and a summary of the environmental reports are available (in English) at:

www.bsh.de/en/Marine_uses/Spatial_Planning_in_the_German_EEZ/index.jsp

Thank you for your attention!