



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

Nautical Information Overlay Simulation

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Objectives

- Use of Waterway and Ports Dataset
- Test of usability of the mapping
- Identify improvements of the mapping

Constraints

- No catalogue file available
- No way to model information object and complex attributes sufficiently
- Geometry of some features not defined
- No chart production tool available

Methods

- Find a tool to manipulate diagrams (non commercial)
- Copy useful features in Nautical Information Overlay
- Order features to thematic groups
- Enhance charted features
- Create geometry for non charted features
- Improve mapping if considered necessary

Methods

- Following software employed
 - CARIS Easy View
 - Paint.NET

Methods

- Following thematic groups used (with certain extensions)
 - Land feature (buildings/ bridges)
 - Mangroves and Corals
 - Zones (military/ fishery/nature reserves)
 - Routeing measures
 - Different sea areas
 - Environmental information (Local magnetic anomalies, sandwaves, tidal stream)

Methods

- Following thematic groups used (cont.)
 - Off-shore activities
 - Harbour area
 - Area authority is responsible for
 - Pilot services
 - Anchorages
 - Berthing features

Results

- Geometry does not always exist
- Hard to identify areas with fuzzy definitions
 - What is the geometry for „off xyz“?
- New portrayal for non-existing features
- NIO might extend charted geometry (e.g. information related to rocks)
- Display of NIO needs specifications (order)

Results

- Open [apps](#).