BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Portrayal of Nautical Information

Working paper for TSMAD 20 & DIPWG 2

„Cause for thought“

- No display proposals, only advice
- SNPWG provides more backend than frontend information
- Most information is used for planning mode, very few for direct ship operation
- More required than simply adding a few symbols to the display
- Safety related calculation can be based on NIO information

Portrayal of Nautical Information

SNPWG wiki shows following new FCD items:

~ 30 feature objects
~ 10 information objects
~ 130 simple attributes
~ 25 complex attributes

- Explanation why wiki
- How to access the wiki

Portrayal of Nautical Information

Symbolisation of charted features

Possible options to indicate that non-chart information exists:

- Extra symbol added to current symbol
- Highlight features differently
- Checkbox to jump to nautical information
- Provide additional display layer for nautical information
  - With different portrayal rules?
  - For different semantic groups (e.g radio, MPA, natural conditions)

•Cross reference to HPA presentation

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Symbolisation of non-charted features

Define portrayal rules:

- Display on „mouse over“?
- Display according to a rule?

Define new symbols

- Do not clutter the current navigation display
- Checkbox to jump to nautical information

Portrayal of Nautical Information

Provide what to expect (short vs extensive)

- Extend exisiting symbol ?
- Create the symbol?
  - Where to place the symbol?
  - Is each piece of information to be symbolised?
- Is it simply an addition to one ore more types of pick report?
- How to treat embedded information (INFORM) ?
- How to treat links to files (TXTDSC, PICREP)?

Portrayal of Nautical Information

Portrayal of information objects

and Information objects associated with other information objects

Portrayal of complex attributes

and complex atttributes of complex attributes

Portrayal of Nautical Information

Presentation of Nautical information

- On a second display
- To the side of the chart display using a 9 X 16 wide screen

- Options discussed during stakeholder forum
- Will probabaly fit the backend
- Planning mode use of information

Portrayal of Nautical Information

Information beyond SNPWG

Format for non vector data

- Gridded Binary (GRIB) Commonly used now for weather forecasts

Other possibilities

- NetCDF used now for some AMLs
- KML-format used for Google earth - May also offer possibilities

- It is likely that more than simply SNPWG data are must be portrayaled
- NatCon information (curent, wind, salinity, density etc.)
- SNPWG generates some information from sources where we can see a better direct use of their data without NIO involvment or filter
- Some calculations in ECDIS will be better base on raw data