

11th CSPCWG-1st NCWG MEETING
Rostock, Germany 27-30 April 2015

Paper for Consideration by CSPCWG/NCWG

Portrayal of MPA features

Submitted by:	SNPWG
Executive Summary:	SNPWG is requesting a portrayal spec for MPA features
Related Documents:	TSMAD24/DIPWG4 08.4A rev1
Related Projects:	S-100, S-122

Introduction / Background

The SNPWG (to be replaced by NIPWG in June 2015) is currently drafting a product specification for Marine Protected Areas (MPA) (S-122). This specification is for data in GML so that it will be possible to portray it in ECDIS systems that can accept GML or it can be portrayed in a GML viewer. Test data has been prepared in accordance with this product specification.

The MPA Product Specification depends on GML and thus, the next S-100 edition, which supports GML, is a prerequisite for the development.

A paper was provided to TSMAD24/DIPWG4 discussing the request of suitable shades of green to depict MPAs.

Analysis / Discussion

The progress of the development of the MPA product specification depends inter alia on the provision of the portrayal instructions of MPA features.

The portrayal section of the MPA Product Specification has not yet been started. A detailed proposal is provided as follows below:

When the MPA layer is selected:

- 1) As a minimum, MPA boundaries should be displayed. The attribute categoryOfRestrictedArea (CATREA in S-57) on the MPA would control whether the boundary will be a pecked line or a T-line. If the attribute is not present the boundary would be pecked. The policy for boundary depiction should follow the principles in S-4.
 - If a categoryOfRestrictedArea is defined with the MPA the boundary line should be a T-line.
 - If no categoryOfRestrictedArea is defined with the MPA, the boundary line should be pecked.
- 2) A fill should be available but should be switched off in a default view. The fill should be faint; just sufficient to notice. This fill could be turned on when a "Highlight" button in a pick report is selected.
- 3) There should be a centre area/screen label of "MPA". It is recognised that MPAs overlap with each other and with other area objects in several regions of the world. Existing deconfliction rules should apply to prevent centre labels overlapping.
- 4) The name of the MPA would not be displayed but would be discoverable in a PICREP.
- 5) The colour of all portrayals on the chart display to do with MPAs should be green. It is recognised that MPA boundaries will follow as well as cross coastlines, so a shade, which is distinct from inter tidal green, is required. The advice of CSPCWG/NCWG should specify exactly which shade of green should be used for all purposes.

Conclusions

The further progress of the MPA product specification development highly depends on the completion of the portrayal section. The next S-100 Edition is likely to be adopted by the member states in 2015 and the maritime

community is waiting for products based on S-100. An inappropriate delay in the delivery of the MPA Product Specification would be challenging to justify.

Recommendations

The SNPWG is proposing the following order of the necessarily requested deliverables.

- 1) CSPCWG/NCWG provides advice which specific colour and colour variances should be used for the MPA portrayal.
- 2) NIPWG (as the replacement of the SNPWG) drafts the portrayal section of the MPA product Specification.
- 3) CSPCWG/NCWG checks the draft and provides feedback.
- 4) Once the portrayal section draft is stable and agreed between NIPWG and CSPCWG/NCWG, the portrayal section of the Product Specification will be completed.

Justification and Impacts

The MPA Product Specification is a stand-alone product using ENC context feature and thus, ENC features would not be used in two instances ENC and MPA.

It is proposed that the CSPCWG/NCWG delivers the specific colour and colour variances of the MPA instances portrayal at the latest by the end of September 2015. That would allow some iterative steps before the next milestone.

The completion of the MPA Product Specification's portrayal section is scheduled to the NIPWG2 meeting which is scheduled for spring 2016.

Action Required of CSPCWG/NCWG

The CSPCWG/NCWG is invited to:

- a. provide the MPA portrayal specific colour and colour variances,
- b. thereafter check the drafted MPA ProdSpec portrayal section,
- c. support NIPWG (as the replacement of the SNPWG) in finalising the MPA ProdSpec's portrayal section.