

**Paper for Consideration by NCWG  
New symbols for paper charts**

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|---------------------------|------------------------------|
| <b>Submitted by:</b>      | France                       |
| <b>Executive Summary:</b> | New symbols for paper charts |
| <b>Related Documents:</b> | /                            |
| <b>Related Projects:</b>  | S-4 (including INT1)         |

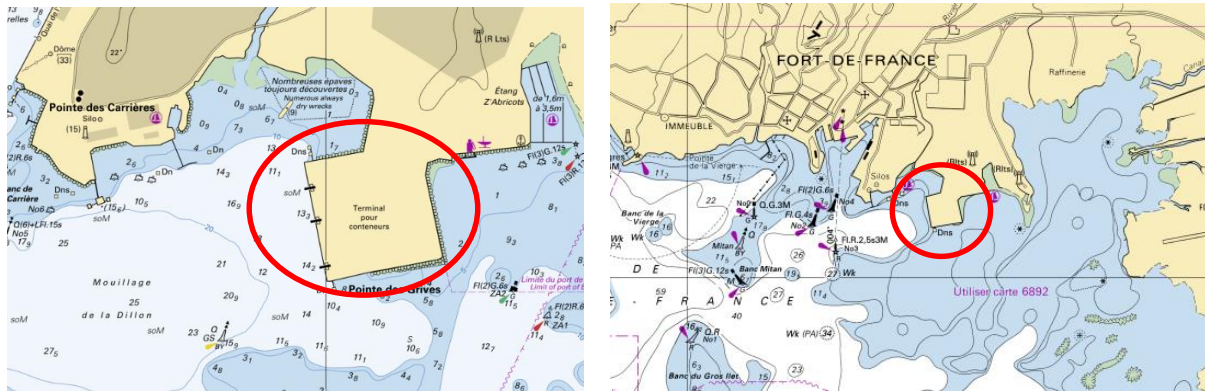
**Introduction / Background**

1. Shom, as many other HOs, works on the automation of paper chart production as much as possible. It is recognized that textual information is one of the main difficulties (text placement). Some of this text could usefully be replaced by symbols.
2. To clarify the use of certain symbols, HOs have to add a note: the adoption of a symbol directly comprehensible by the mariner would improve the readability of the chart.
3. In the FCU project (see paper NCWG9-XXX.XX), Shom wants to increase the use of minimum depiction. In this context, some preliminary tests have shown that new symbols could help the navigator to understand the minimal depiction area.

**Analysis / Discussion**

A – Terminal and commercial ports

4. S-4 B-320 presents symbols fishing harbours or ports (B-320.1 – symbol F10) and boat harbors and marina (B-320.2 – symbol F11.1) and fishing harbors. However, in some situation, cartographer would also like to indicate the presence of a commercial port.
5. For example, in Fort-de-France (Martinique), a container terminal is shown on FR6892 – 1 : 15 000 (with the legend “Terminal pour conteneurs”) but on FR6738 – 1 : 60 000, it is difficult to recognize this terminal despite this information if important for route planning.



FR6892 and FR6738 – container terminal in the red circle

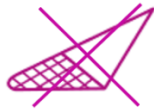
6. Shom proposes to add a new symbol for Terminal and commercial ports in a new section:

**B-320.3** Terminal and commercial ports are equipped to provide for the particular needs of commercial ships (container carrier, bulk carrier, etc.). Terminal and commercial ports must be show, if required, by the following magenta symbol:



B – Fishing by trawling or dredging.

- 7. S-4 B-439.3 introduces some symbols for interdiction included the symbol N21.1 for area where fishing is prohibited. However, in France, many regulations distinguish between fishing as a whole and fishing by trawling or dredging. So, we can't use the symbol N21.1 and have to use text (in french and in english).
- 8. To avoid having to work on this text placement, Shom proposes to integrate a new symbol at B-439.3 list for fishing by trawling or dredging :



C – Waiting area.

- 9. S-4 B-431.9 recommends to represent Waiting areas by “means of magenta legend, for example: “Waiting Area” [...] or equivalent. Their extent may be indicated by magenta dashed limits (N1.2).”
- 10. To limit text length and facilitate placement, Shom proposes to add a **new INT abbreviation: WA for Waiting Area**. This abbreviation could be add to INT1 and B-431.9 could be modify to add this new abbreviation : “means of magenta legend, for example: **“WA” for Waiting areas** [...] or equivalent.”
- 11. S-4 B-431.9 is about Holding areas too. However, because Shom doesn't use it, we don't propose the abbreviation for this type of area. However, is many other HOs use it, it should be possible to add a new INT abbreviation HA for Holding areas.

D – Small craft moorings.

- 12. S-4 B-431.7 recommends to represent Small craft moorings areas by “means of a legend, for example ‘Small Craft Moorings’, or equivalent. Their extent may be indicated by black dashed limits (N1.1). Alternatively, mooring buoy symbols may be used to represent a number of moorings provided this is clear to a mariner.”
- 13. If we don't want to use a text for these moorings, we have to use symbols Q40 and we loose the information that the moorings is for small craft.
- 14. Shom proposes to add a new symbol in order to maintain the specificity and modify B-431.7 :

**B-431.7** Numerous moorings may be shown by means of a legend, for example ‘Small Craft Moorings’, or equivalent. Their extent may be indicated by black dashed limits (N1.1). Alternatively, small craft mooring buoy symbols may be used to represent a number of moorings provided this is clear to a mariner.



**Q44**

E – Minefields.

- 15. S-4 B-441.8 recommends to represent Minefields areas by the symbols N34 :



**N34**

16. To limit text length and facilitate placement, Shom proposes to replace the text minefield by the 'mine' symbol used in the symbol N23.1 :



**Action required of NCWG**

17. The NCWG is invited to:

- a. **Discuss** this paper and its recommendations.
- b. **Agree** on the proposals
- c. **Update** S-4
- d. **Inform** S-101PT of the changes in order to update S-101 accordingly