

**Recommended format for Submission of Proposals to CSPCWG10**  
**Paper for Consideration by CSPCWG**  
**Maintained Depth, Dredged and Unsurveyed areas in the source diagram**

<b>Submitted by:</b>	ITALY
<b>Executive Summary:</b>	Representation of Maintained Depth, Dredged and Unsurveyed areas in the source diagram.
<b>Related Documents:</b>	S-4 B-291.1, B-297.7, B-418.1; INT1
<b>Related Projects:</b>	S-4 and INT1 maintenance

### Introduction / Background

In addition to discussion between AU and UK related to Maintained/Dredged Areas (CSPCWG8- CSPCWG9), we would like to point out the possibility to represent Maintained Depth, Dredged and Unsurveyed Areas in the source diagram.

### Analysis / Discussion

S4 B-291.1 reports:

- B-291.1** The purpose of Source diagrams is to guide navigators, and those planning 'navigational operations' (including the planning of new routes and official routing measures), on the degree of confidence they should have in the adequacy and accuracy of charted depths and their positions. **A Source diagram should ideally give details of the survey from which each part of the chart has been compiled.** See B-417 for a summary of the ways in which the inadequacy of surveys may be indicated on charts.

and B-297.7:

- B-297.7** Additional categories to those listed in S-57 **may be added to ZOC diagrams for paper charts**, e.g.:
- **Maintained Depth** (abbreviation MD) and **Dredged Area** (abbreviation DA). Such areas often do not accurately indicate actual depths, but do indicate minimum depths at the time of dredging.
  - **Unsurveyed** (abbreviation UNS): this should be evident from the face of the chart (see B-418), but may also be indicated on the ZOC Diagram.

Therefore, it would seem that it is possible to represent Maintained depth, dredged and unsurveyed areas only in ZOC diagrams.

However, B-418.1, reports that "...a reference to the Source or ZOC diagram may be inserted..." only with regards to unsurveyed areas.

- B-418.1** **Areas delimited by a bold line.** In unsurveyed areas which are considered dangerous for vessels to enter, a very positive form of warning is required. Such areas must be shown by bold dashed black or magenta limits, with the legend either:

- 'Unsurveyed' (which may be accompanied by a note) or
- 'Depths (see Note)'.

A reference to the **Source or ZOC Diagram** may be inserted instead of a note.

Then the question is:

- In paper charts where a ZOC diagram is not represented, should we represent Maintained Depth, Dredged and Unsurveyed areas in the source diagram?

## **Conclusions**

If the answer is YES we suggest that CSPCWG consider the following amendments to S-4 and INT1:

- B-291.1: Modify the sentence highlighted in yellow as follows: *"A Source diagram should ideally give details of the data from which each part of the chart has been compiled"*.
- B-297.7: Modify the sentence highlighted in yellow as follows: *"... may be added to the Source or ZOC diagram for paper charts...."*.
- B-418.1: Modify the sentence highlighted in yellow as follows: *A reference to the Source or ZOC diagram may be inserted instead of a note. See B-297.7.*
- In INT1 add abbreviations MD, DA, UNS to the Index of Abbreviations.

## **Justification and Impacts**

Changes suggested in this paper may result in a more complete guidance for the cartographer in providing information to the mariner as regards to dredged and unsurveyed areas.

## **Action required of CSPCWG**

CSPCWG is invited to:

Consider this paper and possible related changes to S-4 and INT1.