

6th CSPCWG MEETING
Monaco, 01-03 December 2009

Paper for Consideration by CSPCWG

Depiction of Fish Aggregating Devices (FAD) on Paper Charts

Submitted by:	Australia (Jeff Wootton)
Executive Summary:	Report on inconsistency between guidance for the depiction of FADs on paper charts and guides to chart users regarding symbols, abbreviations and terms used on charts.
Related Documents:	IHO S-4, clauses B-122; B-122.1; B-447(e); B-447.7 IHO S-32 (entry 1809) Official IHO INT1s (German(English), French, Spanish) UKHO BA5011 US (NOAA) Chart 1 SAN HO 6
Related Projects:	None

Introduction / Background

IHO S-4 – Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO – provides an internationally agreed product specification for both international and national navigational charts. This includes a list of international abbreviations (B-122.1), and specifications for the depiction of fish aggregating devices (FAD – B-447.7). INT1 provides guidance for chart users on the symbols, abbreviations and terms used on charts, including an index of nationally used abbreviations (Section V).

Analysis / Discussion

The current guidance for the depiction of FADs on paper charts is as follows (S-4, B-447.7):

B-447.7 Fish aggregating devices (FAD) should be charted by the most appropriate symbol. Underwater FADs (whether on the sea floor or in the water column) should be charted as fish havens (see B-447.5), with the depth if known and no legend. Moored surface FADs should be charted by an appropriate buoy symbol or (for larger rafts, etc) by a small marine farm symbol (K48.2) with the abbreviation 'FAD', or equivalent, to distinguish it from a farm where fish are artificially cultivated. Free floating (unmoored) FADs cannot be charted.

The abbreviation for fish aggregating devices (FAD) is supported by the IHO Dictionary S-32 (entry 1809):

1809 **fish aggregating device (FAD)**. See FISH HAVEN.

Investigation of S-4, B-122.1 shows that the abbreviation of FAD does not appear in the table of international abbreviations. Further investigation of the official IHO publications of INT1 (German (English), French and Spanish) shows that the abbreviation FAD (or national equivalent) does not appear in the Index of Abbreviations (section V) of any of these publications. From AU investigations of a few other national INT1 publications, only UKHO BA5011 contains a Section V reference to FAD.

Conclusions

From the above investigation, there is an inconsistency in the guidance supplied to cartographers on how to depict FADs on paper charts, and most guides for chart users in respect to the interpretation of the abbreviation FAD on the chart.

Recommendations

Chart users need to be informed, through an entry in INT1 Section V (Index of Abbreviations), of the meaning of the abbreviation FAD to align with the compilation guidance for cartographers at S-4, B-447.7. This can be achieved in one of two ways:

1. Add a new entry at S-4, B-122.1 (International Abbreviations) for FAD, which will trigger producers of the official IHO INT1s and producers of other national INT1s to update Section V of their publications for this new international abbreviation.
2. Inform producers of the official IHO INT1s (through the CSPCWG INT1 Sub-Working Group) and other national producers of INT1s to include a new entry in their INT1 Section V (Index of Abbreviations) for FAD (or equivalent).

AU supports the first method, which if approved would require a slight re-wording of B-447.7 to remove the “or equivalent” from the second last sentence in B-447.7.

Justification and Impacts

- Inconsistency between S-4 guidance on the depiction of FADs and the content of INT1 for chart users requires rectification.
- If method 1 above is adopted, the following actions are recommended:
 - Addition of FAD at S-4, B-122.1;
 - Amend second last sentence in B-447.7 to read: “Moored surface FADs should be charted by an appropriate buoy symbol or (for larger rafts, etc) by a small marine farm symbol (K48.2) with the international abbreviation ‘FAD’, to distinguish it from a farm where fish are artificially cultivated.”; and
 - INT1 Sub-Working Group to incorporate FAD into INT1 Section V.
- If method 2 above is adopted, the following actions are recommended:
 - INT1 Sub-Working Group to incorporate FAD, or equivalent, into INT1 Section V; and
 - CSPCWG Secretary to promulgate advice to other national INT1 producers to incorporate FAD, or equivalent, into their INT1 Section V (is there a mechanism for this?).

Action required of CSPCWG

The CSPCWG is invited to:

- a. consider this report
- b. determine, on the merit of the Recommendations above, appropriate action