

**11th CHRIS MEETING
IHB, Monaco, 16 - 18 November 1999**

**STATUS OF IHO PUBLICATIONS ON ECDIS
(October 1999)
By Michel Huet, IHB**

1. IHO S-52 - Specifications for Chart Content and Display Aspects of ECDIS, 5th Edition, December 1996

Prepared by the IHO Committee on Hydrographic Requirements for Information Systems (CHRIS) provides specifications and guidance regarding the issuing of Electronic Navigational Charts (ENC), their display in an Electronic Chart Display and Information System (ECDIS) and their updating. S-52 was developed in conjunction with the IMO Performance Standards.

English version distributed to Member States with IHB CL 2/1997.

A French version of S-52 has been produced and distributed to Member States With IHB CL 47/1998.

S-52 includes four separate Appendices which are as follows:

.1 Appendix 1 - Guidance on Updating the ENC, 3rd Edition, December 1996

English version distributed to Member States with IHB CL 15/1997.

A French version has been produced and distributed to Member States with IHB CL 54/1998.

.2 Appendix 2 - Colour and Symbol Specifications for ECDIS, 4th Edition, July 1997

English version distributed to Member States with IHB CL 53/1997.

A French version is under preparation.

This document includes the following Annex A which is published separately:

Annex A - IHO ECDIS Presentation Library, Edition 3, July 1997

The Presentation Library (PL) provides details and procedures for implementing the display specifications contained in S-52

Appendix 2, by decoding and symbolizing the elements of the SENC.

Edition 3.0 of the PL is available on CD-Rom. Distributed to Member States with IHB CL 49/1997.

The CD-Rom PL is on sale from the IHB at the cost of 10,000 FF. This relatively high price is intended for recovering part of the cost of developing the PL and to make provision for funding its future maintenance.

Colour & Symbol **Maintenance Document No 1**, which includes immediate amendments to S-52 Appendix 2 and to the PL (i.e. its Annex A), **was posted on the IHO Web-site in April 1999**, as a PDF file. As a result, the new edition of the PL is numbered 3.1.

Colour & Symbol **Maintenance Document No 2**, which includes deferred amendments to S-52 Appendix 2 and to the PL, **was posted on the IHO Web-site in October 1999**, as a PDF file.

A Users' Manual for the PL is provided on the CD-Rom as a text file (WordPerfect 6 format and graphic PCX files). It includes:

- Part 1 "Use of the PL",
- Part 2 "mariners' Navigational Object", and
- Part 3 "Additional features".

A MS Word'97 Version of the **PL Users' Manual, edition 3.1, is available from the IHB Web-site.**

The PL Users' Manual is available in English only.

A hard copy addendum to the PL has also be produced and is intended for those who prefer not to use the digital PL. This addendum, which contains an ECDIS chart 1, symbols arranged alphabetically, and colour test diagrams, is distributed separately from the CD-Rom and has been included in the 4th edition of S-52 Appendix 2 (see above).

.3 Appendix 3 - Glossary of ECDIS-Related Terms, 3rd Edition, December 1997

English version distributed to Member States with IHB CL 12/1998.

This version has also been posted on the IHO Web-site.

A French version is under preparation.

.4 Appendix 4 - IHO ENC Test Data Set for IEC

It contains sample ENC data and its updates, and also graphical representations, to be used in conjunction with the Standard IEC 61174 (see Doc. CHRIS/10/7B), in the frame of ECDIS testing and certification/type approval.

Appendix 4 of S-52, which is currently under preparation, will comprise a CD-Rom containing the sample ENC data and its updates, and five different graphical representations of the ECDIS display.

The digital part of the IHO ENC Test Data Set (sample ENC data and updates), produced by the UKHO in collaboration with several national HOs, OEM and QA software developers, on behalf of the IHO, has also been posted on the IHO Web site. It is dated June 1998.

Graphical representations have been produced by NDI under contract to the IHB. Mr. Mike Eaton, C&SMWG, technically supervised the work.

2. IHO S-57 - IHO Transfer Standard for Digital Hydrographic Data, Edition 3.0, November 1996

S-57 describes the standard to be used for the exchange of digital hydrographic data between national Hydrographic Offices and for distribution to manufacturers, mariners, and other data users. S-57 is specified in the IMO Performance Standards for ECDIS (IMO Resolution A/817, December 1995). S-57 was adopted as the official IHO standard by the XIVth International Hydrographic Conference, Monaco, 4-15 May 1992. The current edition (Edition 3.0), dated November 1996, has been "frozen" for at least four years.

S-57 Edition 3.0 is available in digital form on a single diskette (compressed WP 6 files) and in paper form. The printed version includes only a selection of the pages from the Object Catalogue.

S-57 Edition 3.0 was distributed to Member States with IHB CL 60/1996 (digital form) and CL 14/1997 (paper form).

Edition 3.0 is maintained by means of a **cumulative Maintenance Document**, which is promulgated **on the IHO Web-site** following every TSMAD Meeting. It includes clarifications, corrections and extensions to S-57. Only clarifications apply to Edition 3.0.

In addition, some parts of S-57 Edition 3.0, i.e. the "Use of the Object Catalogue for ENC" and the "IHO Codes for Producing Agencies", are maintained by means of new editions. These new editions are posted on the IHO Web-site.

A **limited new edition of S-57, Edition 3.1**, will be published at the end of the freeze period, i.e. in **November 2000**, which will incorporate approximately forty additional attribute values but no other new information. Edition 3.1 is **being made available a year in advance (November 1999)**, to allow data producers and equipment manufactures to familiarize themselves with the new contents. Following its publication, S-57, Edition 3.1 will remain frozen until at least November 2002, which is the date planned for the next major edition of S-57.

The S-57 Edition 3.0 documentation is available in English only. Production of a French version (around 850 pages) is under preparation.