

**RELEASE OF EDITION 3.1 OF S-57 – IHO TRANSFER STANDARD  
FOR DIGITAL HYDROGRAPHIC DATA**

Dear Sir,

We are pleased to provide you with the attached copy of S-57 Edition 3.1.

IHO S-57 Edition 3.0 was published in November 1996, and distributed under cover of CL 60/1996. As stated in the preface, it was decided that Edition 3.0 would be frozen (i.e. remain unaltered for a period of four years), in order to facilitate ENC production, and to provide stability for ECDIS-related development and implementation.

S-57 is maintained by the Transfer Standard Maintenance and Applications Development (TSMAD) Working Group of the IHO Committee on Hydrographic Requirements for Information Systems (CHRIS). This maintenance process is accomplished by means of a Maintenance Document (MD) that is usually produced after each TSMAD meeting. The MD is cumulative and therefore includes the contents of previous editions. The current version may be consulted on the IHO Web-site ([www.iho.shom.fr](http://www.iho.shom.fr)).

At a TSMAD Meeting in June 1998, one of the items addressed was what action should be taken at the end of the freeze period (November 2000). It was noted that, although S-57 is intended to support all hydrographic applications, its use had related primarily to ENC activities. Furthermore, it was noted that no official ENC services were available, very little ENC data coverage existed, and there were no type-approved ECDIS systems. For these reasons, it was proposed by TSMAD, and subsequently endorsed by CHRIS, that it would not be desirable to produce a major new edition of S-57 in November 2000.

Following publication of S-57 Edition 3.0, several hydrographic offices identified additional attribute values required for ENC production. It was therefore agreed that a minor new edition (i.e., Edition 3.1) would be published at the end of the freeze period. This edition would contain a number of new attribute values, but no other additional information. Instructions on the use of the new attribute values for ENC purposes are included in the "*ENC Product Specification*" Edition 2.0 and in the "*Use of the Object Catalogue for ENC*" Edition 2.0.

Because of the need to amend their production software, certain HOs will continue to produce ENCs conforming to Edition 3.0 for some time after November 2000. As a consequence, Edition 3.1 is officially available as from November 2000 at the end of the Edition 3.0 freeze period, but will not supersede Edition 3.0 as advised in the familiarization version.

The familiarization version of Edition 3.1 was made available a year in advance in order to give data producers and equipment manufacturers an opportunity to familiarize themselves with the new contents.

Edition 3.1 (included herewith) is produced in Portable Document Format (PDF). For more information, see attached Explanatory Booklet, page 7. A list of the pages where changes occur is provided in Annex 1. A few minor typographical corrections have been made in the official Edition 3.1 and the value of CATFOR 7: redoubt, has been altered to value 6 in both the Attribute Catalogue (Appendix A, Chapter 2) and the ENC Product Specification (Appendix B.1). The following two new documents have been added to Appendix B.1 of the S-57 Edition 3.1 publication : Annex C (Recommended ENC Validation Checks) and Annex D (INT 1 to S-57 Cross Reference).

For a major revision of S-57 (e.g., from Edition 3.x to 4.0), all changes that are contained in the current MD will be incorporated into the new edition, and a new MD will be started. For a minor revision of S-57 (e.g., from Edition 3.0 to 3.1), the MD continues as a separate document that must be used in conjunction with the current edition. Since certain HOs will continue to produce Edition 3.0 data after the release of Edition 3.1, the MD will apply to both editions. Any future entries in the MD that only relate to Edition 3.1 will be marked accordingly.

Because Edition 3.1 is a minor new edition, the only information that has been transferred to it from the current MD are the new attribute values from the Extensions section. Since Clarifications contained in the current MD have not been incorporated into Edition 3.1, they must be taken into account before making use of Edition 3.1. Corrections will only become effective after they are included and published in the next major edition of the Standard.

The only sections of S-57 that are not frozen are Annex A (Use of the Object Catalogue for ENC), Annex C <sup>1</sup> (Recommended ENC Validation Checks) and Annex D <sup>1</sup> (INT 1 to S-57 Cross References) to Appendix B.1, and Annex A (IHO Codes for Producing Agencies) to Appendix A. New editions of these documents will be produced as required, following the incorporation of changes that have been agreed at TSMAD meetings. Future editions of the *Use of the Object Catalogue* will be applicable to ENCs conforming to Editions 3.0 and 3.1. The latest editions of these documents can be found on the IHO Web-site ([www.iho.shom.fr](http://www.iho.shom.fr)).

On behalf of the Directing Committee  
Yours sincerely,



Rear Admiral Neil GUY  
Director

Encls: Annex 1  
CD-Rom

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<sup>1</sup> Annexes C and D to Appendix B.1 were developed during the familiarization period and were therefore not included in the familiarization copy of Edition 3.1.

## CHANGES PAGES

The following is a list of S-57 documents and relevant page numbers that have been changed as a result of the production of Edition 3.1. (Minor changes, such as document edition and page numbers, have not been recorded).

### **Main Document (31Main.pdf)**

Pages : i, ii, 3.35 (ə 7.3.1.1)

### **Appendix A “Object Catalogue” - Chapter 2 “Attributes” (31ApAch2.pdf)**

<u>Pages</u> :	2.11 (Code 8)	2.80, 2.83 (Code 59)
	2.20, 2.21 (Code 15)	2.84, 2.85 (Code 60)
	2.36 (Code 28)	2.86 (Code 61)
	2.37 (Code 29)	2.87, 2.88 (Code 62)
	2.38, 2.39 (Code 30)	2.91, 2.92 (Code 65)
	2.43, 2.44 (Code 34)	2.94, 2.96 (Code 66)
	2.45, 2.46 (Code 35)	2.164 (Code 189)
	2.50 (Code 38)	2.177, 2.178, 2.179 (Code 131)
	2.56, 2.57 (Code 42)	2.238, 2.240 (Code 185)
	2.74 (Code 55)	2.243 (Code 187)
	2.75, 2.76 (Code 56)	

### **Appendix B.1 “ENC Product Specification” (20ApB1.pdf)**

Pages : iv, 10 (ə 3.5.7), 15 (ə 5.4.3), 16 (ə 5.6.2), 23 (ə 6.3.2.1), 29 (ə 6.4.2.1)

### **Appendix B.1 - Annex A “Use of the Object Catalogue for ENC” (2#USOC.pdf)**

Pages : A.1 (ə 1.1), A.18 (ə 4.6.6.5), A.26 (ə 4.8.13), A.29 (ə 4.8.15), A.50 (ə 9.1.2, 9.2.1), A.66 (ə 11.9.2), A.81 (ə 13.4)

### **Appendix B.2 “IHO Object Catalogue Data Dictionary Product Specification” (20ApB2.pdf)**

Page: 1

ə = Paragraph number