



S-100



S-57

- “ IHO Special Publication 57 is the current IHO transfer standard for digital hydrographic data.
- “ All ENC's on the market today must be on S-57 format
- “ Limitations:
 - “ Inflexible maintenance regime
 - “ Cannot support future requirements
 - “ Limited standard focused exclusively on production and exchange of ENC data.



S-57

Currently, S-57 edition 3.1 is frozen.
It will remain valid until it is no longer required.

“Limitations:

“ Inflexible maintenance regime.

“ As presently structured, it cannot support future requirements (e.g., gridded bathymetry, or time-varying information).

“ It is regarded by some as a limited standard focused exclusively for the production and exchange of ENC data.



S-100

- In 2000 it was decided to make a new edition of S-57
- To be developed as a brand new standard based on ISO Geographic Information Standards
- In 2005 it was decided that the development of an Edition 4.0 of S-57 would be designated as

S-100: IHO Hydrographic Geospatial Standard for Marine Data and Information.

“S-100 came into force on 1 January 2010.



S-100

- “ S-100: IHO Hydrographic Geospatial Standard for Marine Data and Information
- “ Supports a wide variety of hydrographic-related digital data sources, products, and customers



S-101: New Possibilities

- “ S-101 is the Product Specification for ENC based on the S-100 standard
 - “ Better and easier maintenance regimes
 - “ Better integration with other products within the S-100 platform:
 - “ Imagery and gridded data
 - “ Nautical Publications
 - “ High density bathymetry
 - “ 3D and temporal data
 - “ Tidal data



S-101 development

- “ First phase of the S-101 development will be a conversion from current standard (S-57) to the new format to show backward compatibility maintaining data content
 - “ Later phases will include new functionality
- “ Current symbology in S-52 will be transferred to the new platform
 - “ ENC data will appear as before on the ECDIS screen
 - “ Future symbol maintenance will be easier
 - “ Easier to add new symbols when needed
- Product Specification to be finalized in 2012 (at the earliest)
- Then Production Systems, Distribution and ECDIS systems need to be upgraded to support S-101 ENCs
- Unknown when the first S-100 based ENC reaches the market (several years from now)



S-101 ENC Product Specification

- “ ENC data conforming to current standard (S-57 Ed. 3.1) will continue to be a requirement for type approved, IMO -compliant ECDIS for the foreseeable future - even after S-100 has been released.
- “ As a consequence, hydrographic offices will continue to produce S-57 Edition 3.1 ENC data to support this
- “ IHO to decide when/if S-57 no longer will be valid (several years ahead)

