HSSC
UPDATE AND FOOD FOR THOUGHT

S-100

Proposed Review Cycle for WG/PT Development Phase

- S-100 Edition 5.0.0
  - 2022
  - Align S-100 key product Specifications to this edition
    - S-101
    - S-102
    - S-104
    - S-111
    - S-122
    - S-123
    - S-129

- S-98 Interoperability Specification
  - Provides a structured approach on how different navigation related product specifications interact with each other
  - Harmonizes portrayal aspects to reduce clashes
  - Machine to Machine readable for implementation

RESOLUTION MSC.232(82)
(adopted on 5 December 2006)
ADOPTION OF THE REVISED PERFORMANCE
STANDARDS FOR ELECTRONIC CHART DISPLAY AND
INFORMATION SYSTEMS (ECDIS)

MSC 82/24/Add.2

ANNEX 24

RESOLUTION MSC.232(82)

(adopted on 5 December 2006)

**ADOPTION OF THE REVISED PERFORMANCE STANDARDS FOR
ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEMS (ECDIS)**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO resolution A.886(21), by which the Assembly resolved that the function of adopting performance standards and technical specifications, as well as amendments thereto shall be performed by the Maritime Safety Committee and/or the Marine Environment Protection Committee, as appropriate, on behalf of the Organization,

RECALLING ALSO regulations V/19 and V/27 of the International Convention for the Safety of Life at Sea (SOLAS), 1974, which requires all ships to carry adequate and up-to-date charts, sailing directions, lists of lights, notices to mariners, tide tables and all other nautical publications necessary for the intended voyage,

NOTING that the up-to-date charts required by SOLAS regulations V/19 and V/27 can be provided and displayed electronically on board ships by electronic chart display and information systems (ECDIS), and that the other nautical publications required by regulation V/27 may also be so provided and displayed,

RECOGNIZING the need to improve the previously adopted, by resolution A.817(19), as amended, performance standards for ECDIS in order to ensure the operational reliability of such equipment and taking into account the technological progress and experience gained,

HAVING CONSIDERED the recommendation made by the Sub-Committee on Safety of Navigation, at its fifty-second session,

- ▶ Need to coordinate with the IMO
  - ▶ Update to the ECDIS PS
    - ▶ S-100, S-101 and S-98
- ▶ Stakeholder Engagement
  - ▶ Equipment and Users
- ▶ CIRM is proposing a phase in starting in 2024 – mandatory after 2028

DF-ECDIS

▶ Need to develop a definition on what is meant by "Dual Fuel ECDIS"

20. In order to maintain ECDIS devices already installed on SOLAS vessels which are technically not ready nor required to be upgraded to S-101 ENC compatibility, and to comply with the applicable IMO regulations pertaining to existing navigation equipment, identical coverage will be provided for S-57 ENCs and S-101 ENCs for a transition period until there is no significant number of legacy systems in the field and all ECDIS in operation have become S-101 compatible. This situation is expected near the end of the decade, but will be continuously monitored to enable a decision to be made by the responsible IMO body.

21. As a consequence, new ECDIS systems to be brought into the market at the time when S-101 ENC coverage starts (2024) will have to be capable to process both transfer standard formats: S-57 ENCs and S-101 ENCs.

22. Safety of navigation will be maintained by cartographic content of both S-57 and S-101 standards. From the user's perspective, presentation of cartographic and functional features to meet the IMO mandated content in a mixed environment of S-57 ENCs and S-101 ENCs in one ECDIS device will be seamless and presented under the identical presentation regime for charted features and navigational objects.

- Fundamentals
  - SOLAS places an obligation on member states to produce and promulgate ENC data to support mandatory carriage of ECDIS
    - Currently S-57
  - The addition of S-100 to the IMO PS will allow S-100 (S-101) data to also satisfy the requirement
- Principles
  - It should allow unambiguous and defined import and use of both S-57 and S-101 data. In addition, a selection of S-100 data products should be able to be imported and used to enhance user functionality and safety
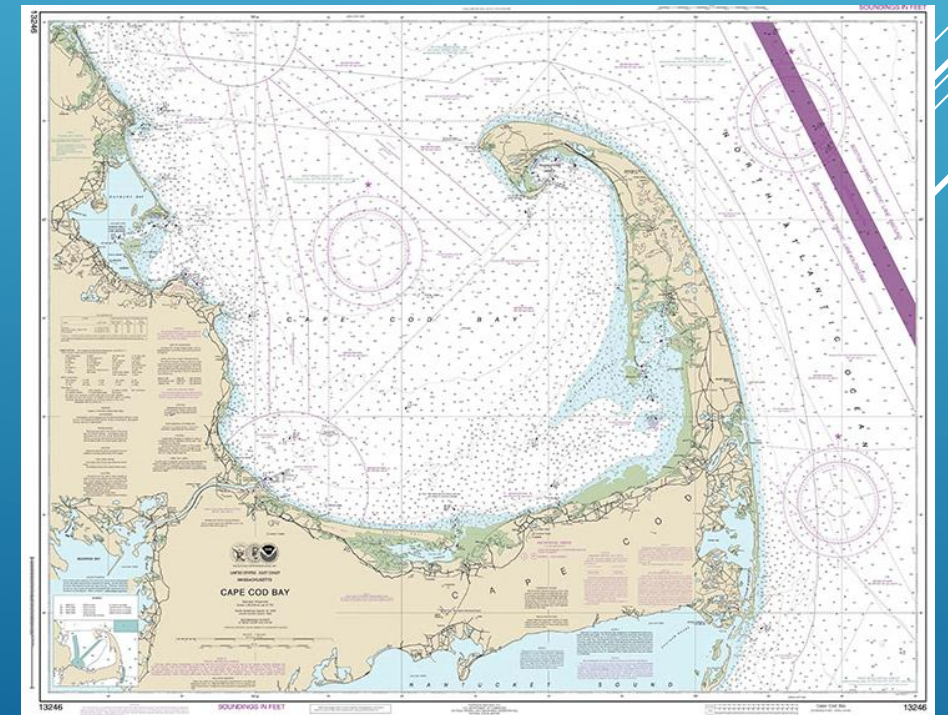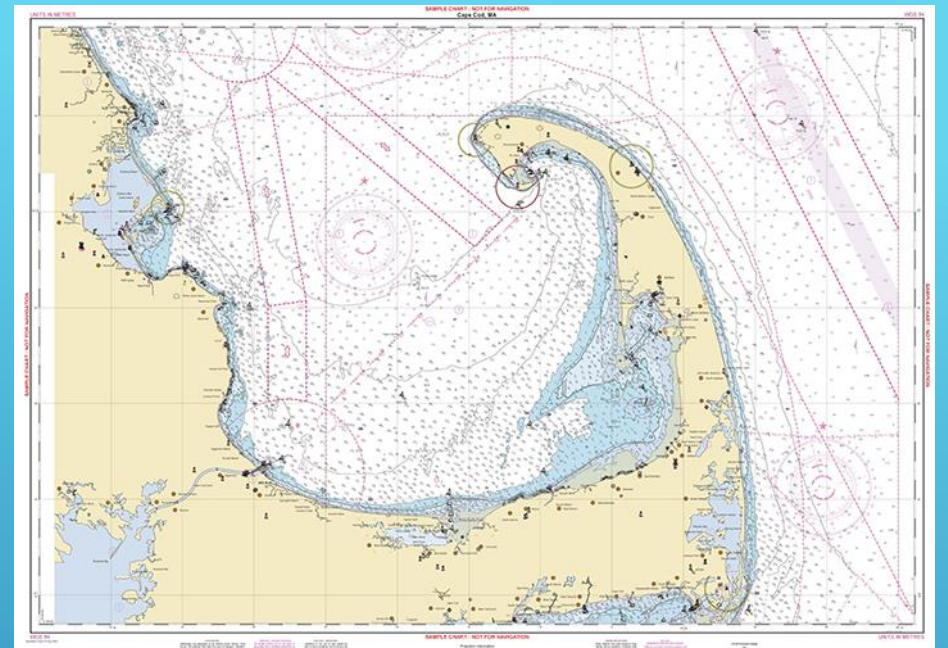 - ECDIS behavior should not be any less "safe" whether S-57 or S-101 data is in use
  - User experience should not be negatively impacted by the introduction of any S-100 data to the ECDIS

GUIDELINES FOR MINIMUM PAPER CHART OUTPUT

- Member States are working on developing tools to produce paper charts derived from ENC

- Need for a minimum standard and unified symbology

OTHER ITEMS OF NOTE

- Ongoing work on the future of the paper chart (NCWG)

- CL 26/2020 - announcement of Hybrid HSSC12 – Oct 20-22nd

- CL 27/2020 – approval of S-44 ed 6.0.0 and S-67 ed 1.0.0 and edition 2.1.0 of Marine Routing Guides

THANK YOU!