13th Meeting of the Hydrographic Services and Standards Committee

Report of CIRM activities affecting HSSC

HSSC-13, VTC Event, 3 – 7 May 2021

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ABOUT CIRM

- International association of marine electronics companies
- We are an NGO in Consultative Status to IMO
- Approx.110 members, including:
  - Equipment manufacturers
  - Service providers
  - System integrators
  - ECDIS companies – manufacturers, kernel makers, data providers (UKHO, NOAA)

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ROUTE EXCHANGE

- Issues have been identified in existing route exchange (RTZ) specification IEC 61174:2015 (Annex S)
- CIRM ECDIS Working Group developed a draft IEC Publicly Available Specification (PAS) to improve and expand upon original RTZ spec
- IEC published **IEC PAS 61174-1:2021** in March 2021
- CIRM also watching development of S-421 within IEC TC 80

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REVISION OF MSC.1/CIRC.1503/REV.1 & MSC.232(82)

- IMO Circular **MSC.1/Circ.1503/Rev.1** is to be revised to improve ECDIS type approval
- ECDIS Performance Standard **MSC.232(82)** is to be amended to pave the way for S-100 ECDIS
- NCSR 8 *invited interested Member States and international organizations to contribute to the work of IHO in the preparation of amendments to resolution MSC.232(82) and MSC.1/Circ.1503/Rev.1*
- CIRM will contribute fully to this work

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TRANSITION TO S-100 ECDIS

- CIRM supports the move to S-100 ECDIS and transition from S-57 to S-101 ENCs
- CIRM's core positions:
  - Any implementation date(s) must be realistic and practical
  - An end date is needed for the transition period, after which ECDIS need only support S-101 ENCs
  - Amendments to MSC.232(82) should include words to facilitate integration of S-100 datasets in support of e-navigation

S-100 WORKSHOP: OVERVIEW

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- CIRM held a two-day virtual workshop in April 2021
- Purpose: bring together CIRM Members and external stakeholders to discuss in depth all aspects of the introduction of support for S-100 in ECDIS
- Approx. 70 participants comprising CIRM members and guests (IHO, RENCs, HOs, etc)

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S-100 WORKSHOP: SESSION THEMES

1. Overview and progress of S-100 standards (Mod: Julia Powell)
2. What will the S-100 ECDIS look like? (Mod: Tom Mellor)
3. Dual-Fuel ECDIS (Mod: Jonathan Pritchard)
4. Standardisation work needed to realise S-100 ECDIS (Mod: Hannu Peiponen)

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S-100 WORKSHOP: DISCUSSION POINTS

- Timescales associated with S-101 ENC coverage and use in ECDIS
- Nature and scope of changes to standards including MSC.232(82) and IEC 61174
- Dynamic adjustment of chart data using non-ENC product specifications
- Impact of S-100 on user training, ECDIS hardware and data usage
- Definition of SENC & role of SENC Delivery in S-100 ECDIS
- Capabilities of dual-fuel ECDIS; possibility of encountering S-101 “anomalies”
- *ETC!*

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S-100 WORKSHOUT: OUTCOMES

- Workshop report is under development
- Some key conclusions:
  - Significant amount of standardisation work needed to realise full S-100 ECDIS
  - S-98 and S-164 timelines key to successful transition
  - CIRM should contribute to IHO's work to define DF-ECDIS
  - DF-ECDIS which will be a fully-featured S-100 ECDIS (i.e. not an interim step)
  - IEC should begin preparation to revise IEC 61174 without delay

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ACTIONS REQUESTED FROM HSSC

1. Note that CIRM is ready to contribute to the work of IHO in the preparation of amendments to resolution MSC.232(82) and MSC.1/Circ.1503/Rev.1

2. Note CIRM's willingness to assist IHO on all matters related to the transition to S-100 ECDIS