



Hydrographic Services and Standards Committee

IMO activities affecting HSSC

HSSC-7

November 2015

Agenda item 7.2

IHB

# IMO activities since HSSC-6

## ✦ Meetings:

- MSC 94, 17 - 21 November 2014
- NCSR 2, 9 - 13 March 2015
- MSC 95, 3 - 12 June 2015
- Outcomes: IHO CL 78/2014, 24/2015 and 43/2015

## ✦ Subjects relevant to HSSC:

- E-navigation
- ECDIS matters
- Maritime cybersecurity
- Polar Code



# E-navigation

- ✦ Documents approved by MSC
  - Strategy Implementation Plan (SIP) (NCSR 1/28 - Annex 7)
  - Guidelines on Harmonization of test beds reporting (MSC.1/Circ.1494)
  - Guideline on Software Quality Assurance (SQA) and Human Centred Design (HCD) for e-navigation (MSC.1/Circ.1512)
- ✦ Outputs agreed for the 2016-2017 agenda of NCSR
  - Revised performance standards for Integrated Navigation Systems (INS)
  - Guidelines and criteria for ship reporting systems
  - Guidelines for the harmonized display of navigation information received via communications equipment



# E-navigation

- ✦ Outputs agreed for the post biennial agenda of NCSR
  - Guidelines on standardized modes of operation
  - General requirements for ship-borne radio equipment forming part of the GMDSS and for electronic navigational aids
- ✦ Proposed output deferred for further justification
  - Development and implementation of Maritime Service Portfolios (MSPs)



# E-navigation

## ★ Recommendations

- Task NIPWG to coordinate the contribution of the IHO to the development of guidelines for the harmonized display of navigation information and to the preparation of the output related to the development and implementation of MSPs, notably in liaison with the WWNWS-SC
  - S-100WG to prepare, in liaison with NIPWG and the IHB, a submission on the contribution of the S-100 framework to the harmonized display of navigation information and the impact on existing performance standards for consideration by NCSR 2 (deadline: 25 Dec 2015)
- Task ENCWG and S-100WG to monitor any possible impact of the work on the agreed e-navigation outputs on ECDIS related standards and S-100 related standards respectively



# ECDIS Matters

- ✦ MSC.1/Circ.1503 - ECDIS - Guidance for good practice approved (replaces five IMO circulars, without modifying the related provisions)
  - *ECDIS that is not updated to the latest version of the IHO Standards may not meet the chart carriage requirements as set out in SOLAS Regulation V/19.2.1.4*
  - Reference to IHO Publication “Facts about Electronic Charts and Carriage Requirements”
- ✦ Confirmation that an unambiguous requirement to update ECDIS software would require amending SOLAS Chapter V, subject to appropriate proposals from member governments
- ✦ Significant increase of the number of ships’ reports on ENC/ECDIS Data Presentation and Performance Check



# ECDIS Matters

Cumulative number of ECDIS check reports from ships



# ECDIS matters

## ✦ Recommendation

- Task S-66 PT to reflect MSC.1/Circ.1503 in the draft new edition of S-66.
- Task ENCWG to consider the impact of the implementation of the new editions of S-52, S-52 Presentation Library and S-64 on the ENC/ECDIS check dataset for ships and associated instructions.





# Maritime cybersecurity

- ✦ Industry guidance on maritime cybersecurity on board ships to be submitted to MSC 96
- ✦ MSC urged Member governments and international organizations to collaborate on proposals for guidance on maritime cybersecurity
- ✦ Recommendation
  - Task DPSWG to monitor the development of the industry guidance on maritime cybersecurity on board ships and to advice on possible future actions



# Polar Code

- ✦ MSC 94 approved and adopted:
  - International Code for Ships Operating in Polar Waters (the Polar Code - Resolution MSC.385(94))
  - New chapter XIV to SOLAS on “Safety measures for ships operating in polar waters”
    - ↪ Adoption date: 1 July 2016
    - ↪ Applicable to new ships constructed after 1 January 2017
    - ↪ Applicable to existing ships by the first intermediate or renewal survey, whichever occurs first, after 1 January 2018



# Polar Code

## ✦ Recommendation

- Task DQWG, NIPWG and NCWG to consider improvements to current IHO specifications or other actions which could facilitate the implementation of the provisions of the Polar Code related to charting issues



# Action required of HSSC

## ✦ Note the report

## ✦ Consider the following recommendations

- Task NIPWG to coordinate the contribution of the IHO to the development of guidelines for the harmonized display of navigation information and to the preparation of the output related to the development and implementation of MSPs, notably in liaison with the WNWWS-SC
  - S-100WG to prepare, in liaison with NIPWG and the IHB, a submission on the contribution of the S-100 framework to the harmonized display of navigation information and the impact on existing performance standards for consideration by NCSR 2 (deadline: 25 Dec 2015)
- Task ENCWG and S-100WG to monitor any possible impact of the work on the agreed e-navigation outputs on ECDIS related standards and S-100 related standards respectively
- Invite the S-66 Project Team to reflect in the draft new edition of S-66 the publication of Circular MSC.1/1503 on *ECDIS - Guidance to good practice* and the cancellation of the relevant previous IMO circulars



# Action required of HSSC

## ✦ Consider the following recommendations (continued)

- Task ENCWG to consider the impact of the implementation of the new editions of S-52, S-52 Presentation Library and S-64 on the ECDIS ship check dataset and associated instructions
- Task DPSWG to monitor the development of the industry guidance on maritime cybersecurity and to advice on possible future actions
- Task DQWG, NIPWG and NCWG to consider improvements to current IHO specifications or other actions which could facilitate the implementation of the provisions of the Polar Code related to charting issues

## ✦ Take any other actions considered necessary

- Unique identifier: task NIPWG and S-100WG to consider referring the issue to the IMO-IHO HGDM and report to HSSC-8

