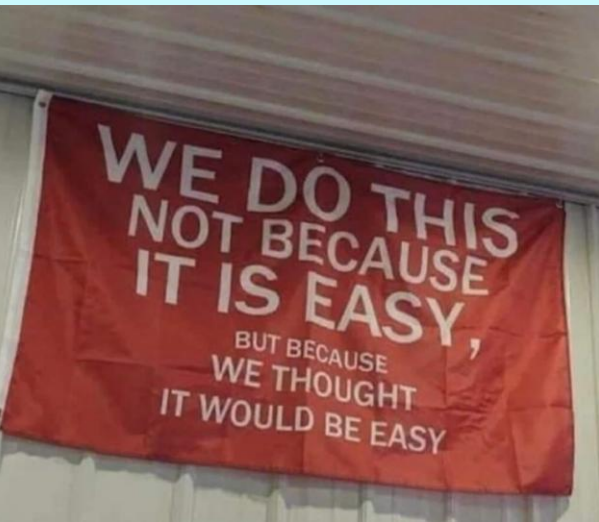


# S-164 / S-98 update VTC

10<sup>th</sup> September 2025



# Agenda

- Introductions
- S-164 progress and plan
- S-98 progress
  - Document update
  - Outstanding changes
  - New developments
  - S-101PT/ENCWG
- S-100WG Preparations
  - Items for discussion
- Other Contributions / AOB
- Next meeting

# S-164 updates

- Refresh of the S-164 manual is in progress.
- New version posted to GitHub after meeting
- Immediate work is:
  - Finishing OSI comments
  - Editing data to fill in gaps
  - Writing new tests left in current version
- Some S-124 data is in github staging area (1<sup>st</sup> attempt, to be updated after WWNWS)
- Will follow with NIPWG Ph2 Specs (post NIPWG), including S-128
- Have US S-101, S-102 and S-104 data (nearly ready)
- S-164 dedicated meeting in October?

# S-98 update

- New version draft 2.2.0
- Contents
- New Proposals
  - 7Cs comment sheet
  - DE/Raytheon comment sheet
  - AU comment sheet
  - Incorporated into 2.2.0 draft
- Other proposals
  - Vertical Uncertainty
  - Phase 2 product specifications
- Inputs?
  - ENCWG/S101PT
  - Others?
- Upcoming
  - NIPWG
  - S100WG

# Vertical Uncertainty

- Proposal to add vertical uncertainty to 12.9.10 “Indications related to ENC Accuracy” and related sections
- This would add verticalUncertainty values to calculations when ESC and WLA are switched on, when the user selects “take quality into account”
- Initial reactions from implementers are in support.
- We need a name for the “data quality taken into account” selector.
- Suggest “Uncertainty Applied” or “Uncertainty”, “Data Uncertainty”? Thoughts? [NOT accuracy]
- Minimum could be applied, optionally split into vertical and horizontal?

Data accuracy selector	Products	Uncertainty applied
Off	S-57 or S-101 alone	Uncertainty not applied
On	S-57 or S-101 alone	Horizontal uncertainty applied from S-57 or S-101
On	S-101 + S-102 (ESC)	Horizontal uncertainty applied from S-101 together with vertical uncertainty from S-102
On	S-101 + S-102 + S-104 (WLA)	Horizontal uncertainty applied from S-101 together with vertical uncertainty applied from S-102 and S-104

# Phase 2 product specifications

- HSSC has determined that the Phase 2 product specifications are mandatory for implementation on ECDIS specified by S-98 3.0.0
- Subject to the following caveats:
  - They MUST be implemented as “dumb overlays” – there can be no interoperability or ECDIS-specific implementation details other than:
    - Loading/Import/Update and management
    - On/Off (Portrayal)
    - Interrogation (Pick Report)
    - Inclusion in ECDIS Update Status Reports (for ENPs)?
- Product Specifications to be added in Section 6.1.1 (and any other relevant parts). Will draft for 2.3.0 (next meeting). Also may need better description of portrayal catalogue “merging”
- Also will discuss at NIPWG update on completion / timescales

What is Phase 2 on ECDIS?

**S-122**

**S-123**

**S-127**

**S-131**

**S-125**

**S-126**

**S-411**

**S-412**

# It's meeting season 😊

- WWNWS – now!
  - S-124 sections for review – will need looking at for next meeting
- ENCWG/S101PT – any readouts / inputs?
  - ?
- NIPWG (next week)
  - Phase 2 product specs
  - S-128 and ECDIS update status report behaviour
  - GML Simplification (if possible)
- S100WG (week after)
  - Inputs, summary and significant issues [?]
- S-98 VTC to follow in October

		<p>ENCWG10 noted the presentation by SHOM regarding using only ZOC and POSACC without considering the date is ineffective for danger assessment, and ECDIS must take the date into account to meet IMO requirements.</p> <p>ENCWG10 noted the proposal; however, it should be further developed to clarify various cases from data producers, <u>taking into account ECDIS functionality</u>.</p> <p>[Action 10/06] Chair/FR/AU/DE/DK/PRIMAR/IHO Sec to develop further <u>taking into account</u> appropriate accuracy calculation and portrayal, and for the Chair to submit it to ENCWG for consideration.</p> <p>[Action 10/07] Chair to forward the issue to S-101DCEG SG to investigate a way forward in S-101 considering the proposal and discussion at the meeting and share the outcome to the Task Group for their consideration.</p> <p>[Action10/09] Chair to communicate with the lead of S-98 group to clarify any impact to S-98 and timeline for S-100 roadmap.</p>	
4b	S-100 ECDIS Accuracy		<p>ENCWG11</p> <p>ENCWG10 Completed</p> <p>Oct 2025</p>

- S-98 should be drafted for review by the end of the year, it's due to go to HSSC next year for approval so any changes need to be proposed and accepted before the end of the year. My comments on the paper were:
  - It's late to alter the algorithm. But it could be done - we would need an explicit set of new text to go into S-98 clarifying how it should work on ECDIS which can be proposed and accepted by the S-98 group. Also, if there are testing impacts they need to be drafted for S-164
  - The point raised is a good one, that updates later than the survey date can't necessarily inherit the CATZOC values so the algorithm will show more false positives than actually exist.
  - Too many false positives, however (in my opinion) are not necessarily a problem. False Negatives (i.e. showing something as more safe than it is) must be avoided at all costs, so leaving the algorithm as it is just makes it less effective (and there's plenty of those concerns already).
  - The user can turn it off, so I'm less worried about it
  - Any changes need to be simple enough to implement. If we can do this, the group is more likely to accept any changes.



# Comment Sheet

- Comment Sheets Review (selected)
  - AU
  - 7C
  - DE/DS
- Please read through the drafted version after the meeting. Questions/comments to be raised at next meeting.
- There are still some other outstanding comments to be addressed. To be done via email and meetings
- Review....

# AOB

- Any AOBs?