Tides, Water Level and Currents Working Group
Face-to-Face & VTC, 10-13 November 2026
Helsinki, Finland / Hybrid
Draft Agenda – (TWCWG11)

1. Opening

.1 Opening address – Chair / Vice Chair
.2 Host welcome – FIN
.3 IHO comments – IHO

2. Administrative Arrangements

.1 Adoption of the Agenda and Apologies – Chair/Vice Chair/IHO
.2 Programme and timetable of the Sessions – Chair/Vice Chair/IHO/FIN
.3 Report on Intersessional Activities including HSSC18 – Chair
.4 Matters arising from TWCWG10/Review of Action Items – Chair

3. National and Regional Presentations

.1 Presentations by delegates on "National Tidal, Water Level and Current issues and projects" [*not S-104/S-111 – see 5.9*] – All

4. Programme Matters

.1 Standard Constituent List – GBR/Chair
.2 Changes in tidal range and epoch information related to Chart Datum – NOR/USA/All
.3 IAPSO Best Practice Study on Tidal Analysis – USA/NOR/GBR/NOC
.4 Historical data recovery/data archaeology – Chair/NOC/All
.5 Establishment and Maintenance of VRF for High Resolution Bathymetric Surfaces – GBR/NLD/NSHC TWG
.6 Determining ellipsoidal height of MSL at the coast – NLD
.7 Inventory of Tide gauges and current meters used by IHO Member States – IHO/Chair
.8 Actual Tides and Currents On-line Link (ATOLL) status – IHO/Chair
.9 List of vertical datums in use to describe Chart Datum – IHO/Chair

5. Product Specifications (S-104, S-111 and S-158)

.1 Statement of Work delivery – Chair
.2 S-104 Clarification Edition 2.0.1: review and approval – S-104 PT/Portolan/All
.3 S-111 Clarification Edition 2.0.1: review and approval – S-111 PT/Portolan/All
.4 S-158:104 and S-158:111 updates – Portolan/PT/All
.5 S-104 and S-111 Revision Editions 2.1.0: significant new issues, scope and approval route – Portolan/PT/All
.6 Engagement with Relevant IHO WG (S-100WG and Interoperability with S-98, S-101 and S-102– Portolan/PT
- dataOffsetCode discussion

.7 Temporal Selection and Display of Time-Varying S-100 Environmental Data in ECDIS (S-98 affecting S-111 & S-104) – CAN/S-98 Lead/PT/All
.8 MSA China Papers on proposed amendments to S-104 PS Edition 2.0.0 – MSA China
  .1 Amendments to improve S-104 consistency and accuracy.
  .2 Add mandatory S-104 portrayal to improve QC and user confidence.
  .3 Add water level measurement quality indicators to S-104 and S-98 to improve data reliability and transparency.
.9 KHOA paper on S-111 Thinning Algorithm Consideration (S-98) – KHOA/KRISO
.10 Experiences on Implementation: test datasets, implementation tooling and validation, sea-trial reports and findings, portrayal, integration and operational use) – All
.11 Open Source support for S-100 Products through IHO / RENC Special Projects Funding – USA
.12 KHOA survey and Member State production approaches – KOR/NOR/All
.13 Baltic Sea and North Sea/ÖKS harmonisation guidance – SWE/DEU/NSHC TWG
.14 TWCWG GitHub repository and issue management – Portolan/Chair/All
.15 Future maintenance model for S-104, S-111 and S-158 (including potential "S-105") – Chair/All
.16 S-104/S-111 Dataset Succession and File Naming – Agreement of a Common Approach – AUS/GBR

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.17 Proposal on Vertical Datum Compatibility between S-104 and S-102 and on the Encoding of the Vertical Datum Epoch – BRA
.18 Proposal to Require Uncertainty in S-104 Datasets Intended for Navigation and to Specify its Confidence Level – BRA

6. IHO Resolutions, Charting Specifications, S-44 & C-13

.1 Review of relevant IHO Resolutions – Chair/Vice Chair/IHO
.2 Review of relevant IHO Charting Specifications – IHO/Chair
.3 Chart Datum definition in tidal, non-tidal and mixed river environments – BRA/All
.4 S-44 tidal and current observation uncertainty – BRA/HSWG/All
.5 C-13 Manual on Hydrography – TWCWG contribution – HSWG C-13 Rep/Task Group

7. IOC Programmes

.1 Update on IOC TOWS Programme items and events – CHL
.2 Update on IOC GLOSS Programme items and events – GLOSS

8. Capacity Building

.1 Tides and Water Levels Workshop training material – ZAF/AUS/USA/All

9. Any Other Business

.1 Transition from aggregated printed tide tables to digital/web services – CAN/All
.2 Special Activity Funding with IC-ENC / PRIMAR – Chair
.3 Other matters submitted by Member States – All

10. Work Plan and ToR's

.1 TWCWG Work Plan 2026-2027 updates – Chair/Vice Chair/IHO
.2 Review TWCWG ToRs and RoPs – Chair/Vice Chair/IHO
.3 Election of Chair and Vice Chair – IHO/All

11. Venue and dates of TWCWG12 – Chair/Vice Chair/IHO

12. Review of Action Items from TWCWG11 – Chair/Vice Chair/IHO/All

13. Development of TWCWG11 report to HSSC19 – Chair/Vice Chair

14. Draft Agenda for TWCWG12 – Chair/Vice Chair

15. Closing remarks – Chair/Vice Chair/IHO/FIN/All

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