

**Tides, Water Level and Currents Working Group**  
*VTC, 28 February – 2 March 2023*  
**Draft Agenda – (TWCWG7)**

**1. Opening**

- .1 Opening address – **Chair / Vice Chair**
- .2 IHO comments – **IHO**

**2. Administrative Arrangements**

- .1 Adoption of the Agenda and Apologies – **Chair/IHO**
- .2 Programme and timetable of the Sessions – **Chair/IHO**
- .3 Report on Intercessional Activities including HSSC14 – **Chair**
- .4 Matters arising from TWCWG6/Review of Action Items – **Chair**

**3. Programme Matters**

- .1 Standard Constituent List – **GBR/Chair**
- .2 The study of long-term data sets for the determination of global sea level rise and changes in tidal range. – **NOR/USA**
- .3 Compare Tidal Predictions generated as a result of analysis of a common data set by different analysis software (including Application for an International Association for the Physical Sciences of the Oceans (IAPSO) Best Practice Study group on Tidal Analysis)– **USA/NOR/GBR [UK National Oceanography Centre, NOC]**
- .4 Historical data recovery/data archaeology – **Chair / GBR [UK National Oceanography Centre (NOC)] / All**
- .5 Establishment and Maintenance of VRF for High Resolution Bathymetric Surfaces – **GBR/NLD**
- .6 Determining ellipsoidal height of MSL at the coast – **NLD**
- .7 Inventory of Tide gauges used by IHO Member States – **IHO/Chair**
- .8 Actual Tides On-line Link status – **IHO/Chair**
- .9 List of vertical datums in use to describe Chart Datum – **IHO/Chair**

**4. Product Specification Presentations & Updates**

- .1 Water Level Information for Surface Navigation Product Specification (S-104); current draft Ed 1.1.0, and working toward Ed 2.0.0 – **AUS/USA**
- .2 Surface Current Product Specification (S-111); current draft Ed 1.2.0, and working toward Ed 2.0.0 – **USA**
- .3 Engagement with S-100WG and other relevant subordinate bodies – **USA/Chair**
- .4 S-104 & S-111 Member State developments, Use cases, etc – **All**

**5. IHO Resolutions and Charting Specifications**

- .1 Review of relevant IHO Resolutions – **ZAF**
- .2 Review of relevant IHO Charting Specifications – **IHO**

**6. IOC Programmes**

- .1 Update on IOC Global Sea Level Observing System (GLOSS) Programme items and events – **USA**
- .2 Update on IOC Tsunamis & Other Hazards Related to Sea-Level Warning & Mitigation Systems (TOWS) Programme items and events – **CHL**

**7. Capacity Building**

- .1 Tides and Water Levels Workshop training material – **ZAF/AUS**

**8. Any Other Business**

- .1 Offer by the Hydrographic Surveys WG (HSWG) for TWCWG collaboration to improve tidal observation uncertainty standards within the relevant sections of S-44 (Standards for Hydrographic Surveys) –**HSWG Chair / Chair / All**
- .2 IHO e-Learning center: <https://elearning.iho.int/> - **Chair / All**
- .3 Survey on tides, water level and currents data production method and data format (S-104 & S-111 products) –**KHOA**
- .4 Maritime Autonomous Surface Ships (MASS) – Gap Analysis in S-104 & S-111– **Chair**
- .5 Minimum metadata requirements for tide & water level gauges - **GBR [UK National Oceanography Centre (NOC)]**

**9. Work Plan and ToRs**

- .1 TWCWG Work Plan 2022-2023 updates – **IHO**
- .2 Review TWCWG ToRs and RoPs – **IHO**

**10. Venue and dates of the 8<sup>th</sup> TWCWG Meeting (TWCWG8) –IHO/ Chair****11. Review of Action Items from TWCWG7 – IHO****12. Development of TWCWG7 report to HSSC15 - Chair****13. Draft Agenda for TWCWG8 –IHO/ Chair****14. Closing remarks – Chair/Vice Chair/IHO/All**