

## IHO Tides, Water Level and Currents Working Group 10 Meeting- TWCWG10

\*\*Virtual Meeting [VTC]\*\*

**04 - 06 November 2025****1. Instructions**

Please join the TWCWG meeting from your computer, tablet or smartphone using this link

**LINK: SEE MS TEAMS MEETING SENT SEPARATELY**

Time Zone Information for start time on each day, using Tuesday 4 November 2025 as an example:

		<i>Tuesday 4 November 2025</i>	<i>11:00 UTC</i>	
Region	Country	LOCAL Start Date	LOCAL Start Time	Time Zone in force
Wollongong	Australia	Tue 4 Nov 2025	22:00	AEDT
Brussels	Belgium	Tue 4 Nov 2025	12:00	CET
Rio de Janeiro	Brazil	Tue 4 Nov 2025	08:00	BRT
Halifax	Canada	Tue 4 Nov 2025	07:00	AST
Vancouver	Canada	Tue 4 Nov 2025	03:00	PST
Santiago	Chile	Tue 4 Nov 2025	08:00	CLST
Beijing	China	Tue 4 Nov 2025	19:00	CST
Bogota	Colombia	Tue 4 Nov 2025	06:00	COT
Copenhagen	Denmark	Tue 4 Nov 2025	12:00	CET
Tallinn	Estonia	Tue 4 Nov 2025	13:00	EET
Helsinki	Finland	Tue 4 Nov 2025	13:00	EET
Brest	France	Tue 4 Nov 2025	12:00	CET
Hamburg	Germany	Tue 4 Nov 2025	12:00	CET
Hyderabad	India	Tue 4 Nov 2025	16:30	IST
Jakarta	Indonesia	Tue 4 Nov 2025	18:00	WIB
Rome	Italy	Tue 4 Nov 2025	12:00	CET
Tokyo	Japan	Tue 4 Nov 2025	20:00	JST
Monaco	Monaco	Tue 4 Nov 2025	12:00	CET
Amsterdam	Netherlands	Tue 4 Nov 2025	12:00	CET
Wellington	New Zealand	<b>Wed 5 Nov 2025</b>	00:00	NZDT
Stavanger	Norway	Tue 4 Nov 2025	12:00	CET
Lima	Peru	Tue 4 Nov 2025	06:00	PET
Lisbon	Portugal	Tue 4 Nov 2025	11:00	WET
Cape Town	South Africa	Tue 4 Nov 2025	13:00	SAST
Busan	South Korea	Tue 4 Nov 2025	20:00	KST
Madrid	Spain	Tue 4 Nov 2025	12:00	CET
Stockholm	Sweden	Tue 4 Nov 2025	12:00	CET
Taunton	UK	Tue 4 Nov 2025	11:00	UTC
Billings	USA	Tue 4 Nov 2025	04:00	MST
Washington DC	USA	Tue 4 Nov 2025	06:00	EST
Caracas	Venezuela	Tue 4 Nov 2025	07:00	VET

<https://www.timeanddate.com/worldclock/converter.html>

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See TWCWG10 Document list for download of all documents (<https://portal.iho.int/page/groups/7/documents>) [login required]. Participants are requested to read all the documents available ahead of the meeting.

Summary of the three days:

**Day 1: Tuesday 4 November 2025**

- TWCWG9 Report
- TWCWG9 Actions - Chair Comments
- S-104 Product Specification Edition 2.0.0 and related discussions / actions / presentations
- S-111 Product Specification Edition 2.0.0 and related discussions / actions / presentations
- S-44 Standards for Hydrographic Surveys, Progress report & Updates

**Day 2: Wednesday 5 November 2025**

- S-104 / S-111 continued (if required)
- S-44 Standards for Hydrographic Surveys, Progress report & Updates (if required)
- Programme Matters - reports and updates
- Agreed revisions to relevant IHO resolutions & Charting Specifications
- Any Other Business

**Day 3: Thursday 6 November 2025**

- Any Other Business continued (if required)
- Capacity Building (Tides training course material)
- IOC Updates
- TWCWG documents
  - Draft Work Plan 2025-2026
  - ToRs

**IHO Tides, Water Level and Currents Working Group 10 Meeting- TWCWG10****\*\*Virtual Meeting [VTC]\*\*****04 - 06 November 2025****3. Draft Agenda****Day 1: Tuesday 4 November 2025 All times in GMT / UTC Time Zone****11:00 – 11:30 – *Opening, Welcome and Administration***

- 1.1 – 1.3 Welcome, Opening Remarks and Meeting Expectations – **Chair/Vice Chair/IHO**
- 2.1 Adoption of agenda and TWCWG9 Report - **IHO**
- 2.2 Programme and timetable of the sessions - **Chair**
- 2.3 Report on Intersessional activities (HSSC16) - **Chair**
- 2.4 Matters arising from TWCWG9 / Review of Actions - **Chair/Secretary**

**11:30 – 13:30 – *S-104 & S-111 Updates, Progress reports & Updates, Use Cases***

- 4.1 Water Level Information for Surface Navigation (S-104) - **AUS/USA**
- 4.2 S-104 & S-111 Papers: presentation and discussions:-
  - 4.2.1 – S-104\_and\_S-111\_CRS-issues\_FI.pdf
  - 4.2.2 – Proposal-S-104\_Chapter5.1\_redline.pdf
  - 4.2.3 – Proposal-S-104\_Chapter5.1\_clean.pdf
- 4.3 Surface Current Product Specification (S-111) – **USA**
- 4.4 S-104 Validation and S-158:104; updates – **USA**
- 4.5 S-111 Validation and S-158:111; updates – **USA**
- 4.6 The TWCWG GitHub repository; S-104 Spreadsheet - **NO**
- 4.7 Next editions of S-104 and S-111 (When? Changes beyond Ed 2.0.0) – **USA/All**
- 4.8 S-104 & S-111 Member State developments, Use cases etc. – **All**
- 4.9 Engagement with S-100WG and other relevant subordinate bodies – **USA/Chair**
- 4.10 Survey on tides, water level and currents; data production method and data format (S-104 & S-111 products) – **KHOA**

**13:30 – 14:00 – *S-44 Standards for Hydrographic Surveys, Progress report & Updates***

- 5.1 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) – **BRA / Chair / All**

**14:00 – *Wrap-up*****Day 2: Wednesday 5 November 2025 All times in GMT / UTC Time Zone****11:00 – 11:05 – *Welcome and Plan for session*****11:05 – 11:30 – *S-44 Standards for Hydrographic Surveys, Progress report & Updates continued*****11:30 – 12:15 – *Update on Programme Matters***

See 3.1 to 3.9 of main Agenda

**12:15 – 13:00 – *IHO Resolutions and Charting Specifications***

- 5.1 Agreed revisions to relevant IHO Resolutions – **ZAF**
- 5.2 IHO Resolutions - Chart Datum definition in non-tidal areas (and tidal areas) - **BRA**
- 5.3 Review of relevant IHO Charting Specifications – **IHO**

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- 8.1 Minimum metadata requirements for tide & water level gauges - **GBR [UK National Oceanography Centre (NOC)]**

**13:45 – 14:00 – *Wrap-up*****Day 3: Thursday 6 November 2025 All times in GMT / UTC Time Zone****11:00 – 11:05 – *Welcome and Plan for session*****11:05 – 12:05 – *Any Other Business continued (if required)*****12:15 – 13:00 – *Capacity Building ; IOC Programmes***

- 7.1 Tides and Water Levels Workshop training material – **ZAF/ USA**
- 6.1 Update on IOC GLOSS Programme items and events – **USA/ NOC**
- 6.2 Update on IOC TOWS Programme items and events – **CHL**

**13:00 – 13:20 – *Work Plan and ToRs***

- 8.1. TWCWG Work Plan up-dates - **IHO**
- 8.2. Review TWCWG ToRs and RoPs - **IHO**

**13:20 – 13:30 – *Next meeting (TWCWG9)***

- 11. Venue and dates of the 11<sup>th</sup> TWCWG Meeting - **Chair/IHO**

**13:30 – 13:40 - *Elections***

- 14. Election of the Chair and Vice-Chair in accordance with ToRs article 3c – **IHO**

**13:40 – 14:00 – *Close***

- 15. Closing Remarks (Discussion on outstanding issues and post-meeting expectations/focus - **Chair**)

**TWCWG10 Attendees****See List of Participants document**