

## List of Actions from TWCWG5

### Actions:

1. **Chair/All**: initiate investigation for storing data and making it available for use by all TWCWG members. (TWCWG6)
2. **Chair/All**: develop a plan for further analysis of tidal harmonics. (TWCWG6)
3. **Zarina Jayaswal (ZJ) (AUS)**: provide some visual diagrams to explain concept of datum separation. (28/05/2021)
4. **Chair/Vice-Chair**: TWCWG to provide a list of vertical datums to be used (must be chart datum) by July 2021 with the list finalised and submitted to S-100 WG by October 2021 (e.g. hydrographic zero (ZH (cf; 2017-2020 information TWCWG), Geoids, Ellipsoid. (TWCWG 2013-2018). (01/10/2021)
5. **ZJ**: provided use case to S-100WG/IIC. Four other use cases from TWCWG members have been provided (2020) to TWCWG and shared using the cloud dedicated to documentation exchange. (25/06/2021)
6. **Chair/Vice-Chair**: initiate discussion on water level trend threshold. (25/06/2021)
7. **All**: send the **TWCWG/Chair** your proposal for a method of calculating. (25/06/2021)
8. **All**: provide additional S-104 & S-111 use cases for discussion by TWCWG. (01/10/2021)
9. **Chair/Vice-Chair**: initiate discussion on how to determine the separation vertical uncertainty ratio to allow use of CSB data. (25/06/2021)
10. **All**: provide feedback to **Chair** on data quality issues documentation for submission to DQWG Chair for July 2021. (02/07/2021)
- ~~11. **RF**: make the proposed amendments to A6.1 and circulate to the TWCWG for final approval. (02/04/2021)~~
- ~~12. **RF**: provide final versions for submission to HSSC. (12/03/2021)~~
13. **Ruth Farre (SANHO)**: lead the review and revision process using the relevant Chart Specifications provided in the meeting documents. (TWCWG6)
- ~~14. **Secretary**: provide relevant specifications for review to RF~~
- ~~15. **RF**: to provide relevant presentations and documents for translation into Chinese [Mandarin] by MSA. (23/04/2021)~~
16. **BRA**: Portuguese translation of supplementary documentation to be completed and 1 slide still to be translated – all to be sent to RF. (28/05/2021)
- ~~17. **Chair/Secretary**: include updated WP in final meeting report and submit to HSSC13.~~
- ~~18. **Chair/Secretary/RF**: identify dates for TWCWG6 and inform TWCWG. (25/05/2021) in progress~~
19. **Secretary/RF**: circulate initial letter of invitation to TWCWG6 no later than 6 months before meeting. (01/10/2021)
20. **All**: all those who have actions to complete should keep the Chair, Vice-Chair and Secretary informed of progress. (TWCWG6)

No	Agenda Item	Subject	Status/Date	Comments	Action
	Continuous				
-	-	Standard Constituent List	On going	Add additional data and upload to website for further comment.	All
-	-	Study of long term data sets	On going	Circulate to TWCWG national reports on studies into sea level rise and trends	All
-	-	Compare tidal and current predictions	On-going	Provide additional datasets for analysis, with constituents used, to IHO for uploading to web page	All
-	-	Compare tidal and current predictions	On-going	Provide reports of analysis NOR and IHO for wider discussion and comments	All
-	-	Inventory of tide gauges	On going	Contact national representative attending RHC meetings to raise awareness of inventory and encourage input and updating of information	All
-	-	Inventory of tide gauges	On going	Regularly check entries and provide up-dates and amendments to IHO as necessary	All
-	-	Actual Tides On-line Link	On going	Check and provide up-dates and amendments to the information provided to ensure content is current and all links work	All
-	-	Capacity Building	On going	Through their appropriate representatives, highlight to RHC meetings the course availability and the intended target audiences	All
-	-	Any other business	On going	Investigate what historical data is held and to consider preserving it as digital data for future use	All
	TWCWG4				
18	5.3	Compare Tidal Predictions	TWCWG5	Comparison of the results provided	NHS
19	5.3	Compare Tidal Predictions	TWCWG5	Outline topics and challenges that should be resolved or covered in the guidelines	BOMNHS
20	5.3	Compare Tidal Predictions	TWCWG5	Generate first draft for recommendations concerning uncertainty	BOMNHS
21	5.6	Status of vertical datum change	TWCWG5	Prepare a synopsis on the existing surfaces of references and compare it to CD	Chair (volunteers required - see report)

	TWCWG5				
1	3.1	Tidal predictions	TWCWG6	Initiate investigation for storing data and making it available for use by all TWCWG members	Chair/All
2	3.1	Tidal predictions	TWCWG6	Develop a plan for further analysis of tidal harmonics	Chair/All
3	4.1	S-104 Update	28 May	Provide some visual diagrams to explain concept of datum separation	ZJ
4	4.1	S-104 Update	1 Oct	TWCWG to provide a list of datums to be used (must be chart datum) by July 2021 with the list finalized and submitted to S-100 WG by October 2021	Chair/Vice-Chair
5	4.1	S-104 Update	25 Jun	Provided use case to S-100WG/IIC	ZJ
6	4.1	S-104 Update	25 Jun	Initiate discussion on water level trend threshold	Chair/Vice-Chair
7	5.1	S-104 Update	25 Jun	Provide proposed method of calculation water level trend threshold to Chair	All
8	4.3	Use Cases	1 Oct	Provide additional use cases for discussion by TWCWG	All
9	5.5	Engagement with S-100WG and other relevant bodies	25 Jun	Initiate discussion on how to determine the separation vertical uncertainty ratio to allow use of CSB data	Chair/Vice-Chair
10	5.5	Engagement with S-100WG and other relevant bodies	2 Jul	Provide feedback to Chair on data quality issues documentation for submission to DQWG Chair	All
11	6.1	Review of IHO Resolutions	2 Apr	Make the proposed amendments to A6.1 and circulate to the TWCWG for final approval	RF
12	6.1	Review of IHO Resolutions	2 Apr	Provide final versions for submission to HSSC	RF
13	6.2	Review of IHO Charting Specifications	TWCWG6	Lead the review and revision process of the relevant Chart Specifications	RF
14	6.2	Review of IHO Charting Specifications	26 Mar Complete	Provide relevant specifications for review	IHO
15	7.1	CB Course Update	23 Apr	Provide relevant presentations and documents for translation to MSA	RF
16	7.1	CB Course Update	28 May	Provide to RF completed Portuguese translation of supplementary documentation and 1 slide	BRA

17	8.1	Work Plan	HSSC13	Included revised version of Work Plan 2021-2022 in report to HSSC13	Chair/IHO
18	9.1	TWCWG8	25 Jun	Identify suitable dates for meeting	Chair/IHO/RF
19	9.1	TWCWG8	1 Oct	Circulate an initial letter of invitation and post on the website.	RF/IHO
20	11.1	Review of list of Actions and Decisions	TWCWG6	All those who have actions to complete should keep the Chair, Vice-Chair and Secretary informed of progress	All
21	11.4	TWCWG5-Draft-Report	26-Mar Complete	Draft to be circulated for comment	IHO
22	11.4	TWCWG5-Draft-Report	9-Apr Complete	All to provide comments on draft report	All
23	11.4	TWCWG5-Final-Report	23-Apr Complete	Publish final report	IHO
24	11.4	Report to HSSC13	15-Mar Complete	Final report for submission	Chair/Vice-Chair/IHO

#### LIST OF DECISIONS

No	Decision
1	Draft agenda adopted without amendments
2	Report of TWCWG4 was approved
3	It was agreed to take the outstanding actions under the relevant agenda items
4	Datum separation: don't include in S-104 Ed 1.0.0. include in Ed 2.0.0
5	Uncertainty: defer the methods for calculating uncertainty and also the possible inclusion of uncertainty as a Feature Attribute until Ed 2.0.0; this should be progressed and resolved well before Ed 2.0.0 is submitted
6	Additional Datums: the WG should define particular additions to the list of datums, but the encoding will be determined by the discussion in the S-100 WG
7	Real-time AIS use case: provided a use case to be sent to S-100/IIC for their S-100 real-time data development
8	Portrayal: leave in PS with note that no XML portrayal catalogue is provided in Ed 1.0.0 and implementation not expected for Ed 1.0.0
9	Compliance: have S-104 compliant with S-100 Ed 4.0.0, but note that efforts were made to accommodate known Ed 5.0.0 draft at time of publication
10	File name 4-character producer code: same as for S-111 above

11	Group_F (including fillValue): same as for S-111 above
12	Water level trend threshold: more discussion needed offline to determine optimal place for this metadata variable in HDF5 file
13	Non-uniform time interval data: include support in S-111 as in S-104
14	Compliance: have S-111 Ed 2.0.0 be compliant with S-100 Edition 5.0.0, not Ed 4.0.0
15	File name 4-character producer code: use 4-character instead of 2-character codes, but need to coordinate when S-100 allows for 4-character codes in Producer Code Register (in S-100 Ed 5.0.0?)
16	Group_F (including fillValue): after S-100 WG discussion of UoM is concluded, S-111 and S-104 should conform. Require fillValue, code, uom.name, etc. to be certain values in Group_F for consistency across all S-111 products
17	It was agreed that a Chinese translation was of benefit and MSA were invited to progress the task.