

1st IHO-HSSC Meeting
The Regent Hotel, Singapore, 22-24 October 2009

Report of the Tidal and Water Level Working Group

Submitted by:	Chairman, TWLWG
Related Documents:	Report of TWLWG1 meeting (available from IHO web site).
Related Projects:	None
Chair:	Stephen Gill, USA
Vice-Chair:	Lucia Pineau, France
Secretary:	Steve Shipman, IHB
Member States:	Australia, Brazil, Canada, Chile, China, Cuba, Denmark, Ecuador, Finland, France, Germany, India, Indonesia, Italy, Japan, New Zealand, Norway, Peru, Portugal, South Africa, Spain, UK, Uruguay, USA, Venezuela.
Expert Contributor Organisations:	Bohdan Pillich (Tidal Expert) IOC-GLOSS
<i>see Annex A for full details</i>	

Meetings Held During Reporting Period

TWLWG1 30 March to 1 April 2009 Niteroi, Brazil.

Next Meeting

TWLWG2 April 2010 dates to be decided. Stavanger, Norway

Work Program

The TWLWG, formerly the Tidal Committee, met for the first time in 2009. Previously the Committee had met at 18 month intervals but agreed to change this to 12 months in order to interact more efficiently with the HSSC. It is intended that the meetings will normally take place in April. The TWLWG prepared a draft work programme, following the HSSC standard format and based on that of the Tidal Committee which had been approved at the XVIIth IHC. Following the outcome of CHRIS 20 and requests from Member States some new items have been introduced into the program for HSSC approval. The draft WP is at Annex B.

Progress on HSSC Action Items

As requested by CHRIS 20 a draft Work Program for the TWLWG has been prepared for HSSC approval

Problems Encountered

N/A

Any Other Items of Note

N/A

Conclusions and Recommended Actions

N/A

Justification and Impacts

N/A

Action Required of HSSC

The HSSC is invited to:

- a. note this report
- b. endorse the work program at Annex B

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Annex A to TWLWG Report

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Annex A to TWLWG Report

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1.1. TWLWG Work Plan

1.1 TWLWG Tasks

- A Maintain Standard Tidal Constituent List (IHO Work Programme 3.2.4 refers)
- B Prepare a Standard for Digital Tide Tables (IHOTC Report to the XVIIth IHC as adopted)
- C Respond to TSMAD on tidal matters relevant to the Dynamic Application of Tides in ECDIS (CHRIS Action 20/6)
- D Monitor and assist in the preparation of English translation of the Tidal Manual prepared by the Institut Océanographique and SHOM (IHO funded the translation from French to English)
- E Review the various definitions of MSL and their relevance to Hydrographic Offices and review the IHO tidal resolutions to ensure that they are compatible with the requirements of non tidal areas such as the Baltic Sea.
- F Prepare and maintain an inventory of tide gauges used by Member States and to publish it on the IHO/TWLWG web site.
- G Prepare structure and contents for a short course (maximum 5 days) on “Tides for hydrography” for the Capacity Building Sub Committee

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
A1	Maintain Standard Tidal Constituent List	H		Continuous		O	Chris Jones* Lucia Pineau	
B1	Identify current availability of DTT and future plans for their introduction by MS.	H	Circulate questionnaire to MS and assimilate responses. .	2007	2008	C	Steve Shipman*	
B2	Prepare a Standard for Digital Tide Tables	H	Prepare draft Standard	2009	2011	P	Lucia Pineau* Stephen Gill Chris Jones Zarina Jayaswal	

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
C1	Respond to TSMAD on tidal matters relevant to the Dynamic Application of Tides in ECDIS	H		2009	2009	P	Steve Gill* Zarina Jayaswal Chris Jones Phil MacAulay Dan Pillic Steve Shipman	
D1	Provide advice to the translator preparing the English text of the Tidal Manual prepared by the Institut Océanographique and SHOM	H	Completion of translation into English.	2003	2009	O	Steve Shipman*	
D2	Proof read the English translation of the Tidal Manual prepared by the Institut Océanographique and SHOM	H	Approval of the English text.	2009	2010	P	Steve Shipman*	
E1	Review the various definitions of MSL and their relevance to Hydrographic Offices and review the IHO tidal resolutions to ensure that they are compatible with the requirements of non tidal areas such as the Baltic Sea.	H		2009	2010	P	Jukka Varonen* Tor Torresen Lucia Pineau Steve Gill Steve Shipman	
F1	Prepare and maintain an inventory of tide gauges used by Member States and to publish it on the IHO/TWLWG web site.	H		2009	2010	P	Steve Shipman* Steve Gill	

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard
G1	Prepare structure and contents for a short course (maximum 5 days) on "Tides for hydrography"	H	Delivery of course structure to CBSC.	2009	2009	O	Steve Gill* Steve Shipman	

1.2 TWLWG Meetings (IHO Task 3.1.11 refers)

Date	Location	Activity
30 Mar – 1 Apr 09	Niteroi Brazil	1 st Meeting
April 2010 (dates tbc)	Stavanger, Norway	2 nd Meeting
April 2011	tbd	3 rd Meeting

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