TSMAD20/DIPWG2 INF2

Report from the 2nd TWLWG Meeting
Stavanger, Norway (27 - 29 April 2010)

The TWLWG has three work programme items:

- Prepare a Standard for Digital Tide Tables;
- Liaison with TSMAD on Tidal Matters relevant to the Dynamic Application of Tides in ECDIS;
- and Develop a Standard for the transmission of real time tidal data.

The TWLWG were of the opinion that whilst these were 3 distinct items there would be a considerable degree of linkage between them. The TWLWG has therefore focussed their attention on the second item as they considered that the results of this would contribute to the other two. TWLWG have prepared the attached document for consideration by TSMAD. This was developed during the meeting and it is possible that some amendment maybe required as experience grows. TWLWG would of course appreciate feedback.

The TWLWG have now established a task group to prepare the feature and attribute pages for the items listed in the document. This will then be considered at TWLWG3 in 2011. Three major players in the task group, Australia, France and UK believe they have a close liaison with TSMAD members that they will be able to consult in their work.

The next meeting of TWLWG is provisionally planned to take place in Jeju Island Rep of Korea, from 5-7 April 2011.

Report by Steve Shipman (IHB)

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« Real world » tidal data	*« Modelled » tidal data (for ECDIS or DTT)*
TIDE GAUGE	***SISTAW (with attribute CATSIW=12 or 15)***
Latitude	*Not required (spatial object)*
Longitude	*Not required (spatial object)*
Geodetic System	*WGS84 (no other option)*
Telemetry	*COMCHAR is VHF only, possible need for other options*
Authority	*Not required for ENC*
Technology	*Not required for ENC*
Name of the station	*OBJNAM, NOBJNM*
Station code	*New attribute required*
Type of station (primary, secondary…)	*New attribute required*
GLOSS/PSMSL number	*Not required for ENC*
Comments	*INFORM, NINFOM*
CD/ellipsoid	*Not required for ENC*
Value CD/Gauge Zero	*New attribute required*
OBSERVATIONS	***T_TIMS (time series)***
Sampling rate	*T_TINT*
Reference level	*VERDAT (may not be the same as the cell)*
Time DD/MM/YY HH:MM:SS (?)	*New attribute required*
Heights	*T_TSVL (but only want a single value)*
Quality of data	*New attribute required for observations to be based on GLOSS classification) This is quality not accuracy T_ACWL).*
Units	*HUNITS but require centimetres (may impact the M_UNIT?)*
Time zone	*New attribute required*
PREDICTIONS	***T_HMON (harmonic prediction) T_NHMN (non harmonic prediction)***
Sampling rate	*T_TINT*
Reference level	*VERDAT (may not be the same as the cell)*
Time Series DD/MM/YY HH:MM:SS (?)	*New attribute required*
Heights	*T_TSVL (but may only want a single value)*
Quality of data	*T_ACWL but may need adapting*
Value CD/Gauge Zero	*New attribute required (See tide gauge above)*
Units	*HUNITS but require centimetres (may impact the M_UNIT?)*
Method of prediction	*T_MTOD*
No. of harmonic constituents	*T_VAHC*
Values of harmonic constituents	*T_VAHC*
Time differences	*T_THDF*
Height Differences	*T_THDF*
CO-TIDAL AREA	***New Object required***
Range adjustment	*T_THDF but recommend a new attribute (Time difference and range factor)*
Time adjustment	*T_THDF but recommend a new attribute as above*
Quality attribute	*CATQUA but needs adapting*
TIDAL MODEL	***New Object required***
Grid points (nb, coordinates)	*Does not exist, require coordinates for each grid point*
Harmonic constants at each grid point	*T_VAHC but needs amendment Z0, time zone, Doodson number and units*
Predictions at each grid point	*See above*
Reference level	*VERDAT*
Quality attribute	*CATQUA but needs adapting*