



Dossiers de l'OHI n° S3/8151 & S3/6004

LETTRE CIRCULAIRE 31/2019
26 juin 2019

DEMANDE D'APPROBATION D'UNE NOUVELLE RESOLUTION DE L'OHI SUR LES TABLES DE MAREES NUMERIQUES

Références :

- A. Publication M-3, 2^{ème} Edition 2010 – Mise à jour d'août 2018 – *Résolutions de l'OHI*.
- B. Lettre circulaire de l'OHI 20/2019, du 28 mars – *Système de formulaire en ligne de l'OHI pour la réponse aux lettres circulaires et pour les contributions aux publications de l'OHI (P-5 et C-55)*.

Madame la Directrice, Monsieur le Directeur,

1. La présente lettre circulaire requiert l'approbation par les Etats membres de la proposition de nouvelle résolution de l'OHI 01/2019 – *Tables de marées et de courants de marée numériques* – soumise par le groupe de travail sur les marées, le niveau de la mer et les courants (TWCWG) et avalisée par le Comité des services et des normes hydrographiques (HSSC) lors de sa 11^{ème} réunion, tenue au Cap, Afrique du Sud, en mai 2019.
2. Le projet de proposition de nouvelle résolution est fourni en Annexe A (en anglais uniquement).
3. Il est demandé aux Etats membres de tenir compte de l'aval du HSSC et d'envisager l'adoption de cette proposition en donnant leur réponse dès que possible, et au plus tard le **31 août 2019**, par courriel (cl-lc@ioh.int) ou par télécopie (+377 93 10 81 40) s'ils utilisent le bulletin de vote fourni en Annexe B ; il est toutefois préférable que les Etats membres utilisent le système de formulaire en ligne de l'OHI (cf. référence B) via le lien suivant : https://IOH.formstack.com/forms/cl31_2019

Veuillez agréer, Madame la Directrice, Monsieur le Directeur, l'assurance de ma haute considération,

Pour le Secrétaire général,

Abri KAMPFER
Directeur

Annexes :

- A. Projet de proposition de nouvelle résolution de l'OHI 01/2019.
- B. Bulletin de vote.

Annexe A à la LC de l'OHI 31/2019

Proposition de nouvelle résolution de l'OHI 01/2019
(en anglais uniquement)

TITLE	Reference	Last amendment (CL or IHC)	1st Edition Reference
Digital Tide and Tidal Current Tables	01/2019	xx/2019	Ver 1.0

1 It is resolved that member Hydrographic Organizations (HO) may choose to publish their tide and tidal current tables in either paper format or digitally. If digitally, they can be distributed either through the HO's web site, or representative complement or via portable media such as a DVD.

General Guidelines for Digital Tide and Tidal Current Tables

2 It is resolved that digital tide and tidal current tables should adhere to all the same requirements as existing paper tide and tidal current tables as specified in IHO Programme 2 "Hydrographic Services and Standards" Section 2.2 – Tides and Water Levels

3 It is resolved that the issuing office should provide documentation on how to install or read the electronic tables, minimum computer specifications how to obtain product support and general information on the Digital Tide and Tidal Current Tables. This information should be provided in either hardcopy written form (for example, on a separate sheet of paper or on the cover of the disk or other media), or electronically in a plain ASCII text 'readme.txt' type of file. This file should also include user license and/or condition of use information.

4 It is resolved that the issuing office should provide its formal name, mailing address; web url and point of contact information on the cover of the media. It should also provide information on the production of the tables (including both address and website), information on how to obtain annual updates, and how to obtain interim updates or errata information.

5 It is resolved that the digital tide and tidal current tables should include a statement concerning the standing of the digital tables as meeting the applicable maritime regulations, either SOLAS and/or local country carriage requirements.

Formats for Digital Tide and Tidal Current Tables

6 It is resolved that there shall be two allowable formats for digital tide and tidal current tables.

A. Scanned Images of Tide and Tidal Current Tables: This format consists of scanned images of the paper tide tables. This format should have the following attributes.

B. Electronically generated Tide and Tidal Current Predictions: This format consists of software and a user interface that calculates tide and tidal current predictions from stored harmonic constituents or time and range offsets.

Detailed Specifications for Digital Tide Tables – Scanned Images of Tide Tables:

7 It is resolved that Scanned Images of Tide Tables should follow the following specifications.

- a. Should be a faithful reproduction of all the pages of printed tide tables.
- b. The images should be formatted in a widely available, common format. Examples formats include, but not limited to, PDF, tiff, Jpeg, Gif. If PDF files are provided, then information on how to download Adobe® Reader must be provided.
- c. If multiple books are published, then each book should be located within its own folder and clearly identified.
- d. No modification of the scanned images is permitted by users.

Detailed Specifications for Digital Tide Tables – Electronically Generated Tide Predictions

8 It is resolved that Electronically Generated Tide Predictions should follow the following specifications:

- a. Station Selection: It is recommended that station selections can either be map based or list based, and should be organized by water body.
- b. Station Information: It is recommended that the following information be included with each station;
Station Name and Number (or ID) as appropriate
Body of Water Descriptor (if appropriate)
Latitude and Longitude (following ISO 6709 convention, stated in degrees and 6 decimals)
Horizontal and Vertical Datum convention
Location Map with nearby prediction stations identified
URL to station or data portal.
- c. It is recommended that Earth-Moon-Sun Astronomical Calendar Information (Tabular and/or integrated with graphical data output) be included.
- d. It is recommended that Sunrise/Sunset Calendar Information (Tabular and/or integrated with graphical data output)
- e. It is recommended that the default reference datum is the Chart Datum used by the Country furthermore, it is recommended that the user have the ability to reference predictions to other tidal datums supported by the HO (such as LAT, HAT, MHW, MSL) and user identified datums such as a national geodetic or ellipsoidal datum or other coastal engineering or threshold datums that are pertinent.
- f. It is recommended that data displays and tables can be toggled to both in Metric or English units, with default depending upon country
- g. It is recommended that the time displayed is the legal local time as default, with user selected option for UTC/GMT, daylight savings time, etc. Legal time includes daylight savings time if applicable. Furthermore, when time zone information is displayed it should follow the convention that negative time zone offsets are used for east longitude and positive offsets for west longitude.

h. It is recommended that the following tide prediction source metadata information be provided;

Harmonic Constituents or Time and Range Correction to Reference Station,
Dates of Harmonic Analyses time series used to create the set of Harmonic Constituents used in the prediction,

Dates of the observations used to create time and height corrections (for nonharmonic based predictions) to a reference Station,

Links to the list of the Harmonic Constituents used in the Prediction. Furthermore, the display of the Harmonic Constituents should adhere to the IHO [National Tidal Constituent Banks Resolution 2/1977 as amended 42/2000 A6.8](#)

The name of the Harmonic Analysis program used to generate the harmonic constituents.

i. It is recommended that the HO provide and display tidal sea level amplitude prediction with a minimum of 4 decimals precision (for metric system) if possible.

j. It is recommended that users have the ability to obtain output in common formats such as PDF, TXT, XML, CSV, S-112 single point formats

k. It is recommended that additional information be provided special warning explaining areas of anomalous tidal conditions, special datums, or tidal based hazards to navigations (dual high or low waters, tidal bores, river flow dependencies and river datums, frequent non-tidal conditions, etc..)

l. It is recommended, when applicable, that estimates of uncertainty in the predicted times and heights of high and low waters be provided to users.

Detailed Specifications for Graphical Display of Electronic Tide Predictions

9 It is resolved that the predictions have the ability to obtain graphical and tabular output for desired time period (either historical and into the future) and should contain the following attributes with the objective not to prescribe a specific graphical view but rather to identify common elements that transcend all types of graphs:

a It is recommended that the predictions can be displayed as discrete points or a continuous curve using a curve fit routine to times and heights of high and low waters or to the time series values.

b It is recommended that all axes should be clearly labelled

c It is recommended that time series data should have a minimum, 1- hour increments

d It is recommended that times and heights of predicted high and low tides should be provided

e It is recommended that the default datum should be the same as chart datum for the location of the prediction

f It is recommended that the tidal height units default should be the same as the HO's printed tables

- g It is recommended that the display should include station information (as defined above)
- h It is recommended that the display include the name and/or the insignia of the source authority organization
- i It is recommended that the display should have the option to view the tide prediction numerical values used to create the graphic.
- j It is recommended that the display of the graphical data should be able to be adjusted to suit daytime, twilight, and night time viewing

Detailed Specifications for Digital Tidal Current Tables

- 10 It is resolved that Digital Tidal Current Tables can be in the same two formats as Digital Tide Tables and the same requirements that apply to digital tide tables pertain to tidal current tables.
- 11 It is resolved that electronically generated Tidal Current Predictions do have additional specifications as identified:
 - a It is recommended that the depth of prediction be included in the metadata and include a the descriptor that the depth is either from the surface down or from the bottom up
 - b It is recommended, if applicable, flood and ebb current direction (referenced to True North) be presented.
 - c It is recommended that for graphical display of tidal currents the default speed units should be knots
 - d It is recommended that for graphical display of tidal currents the default direction units should be degrees (referenced to true north).

Examples of Digital Tide Tables

USA - NOAA Example - Scanned Tide Table

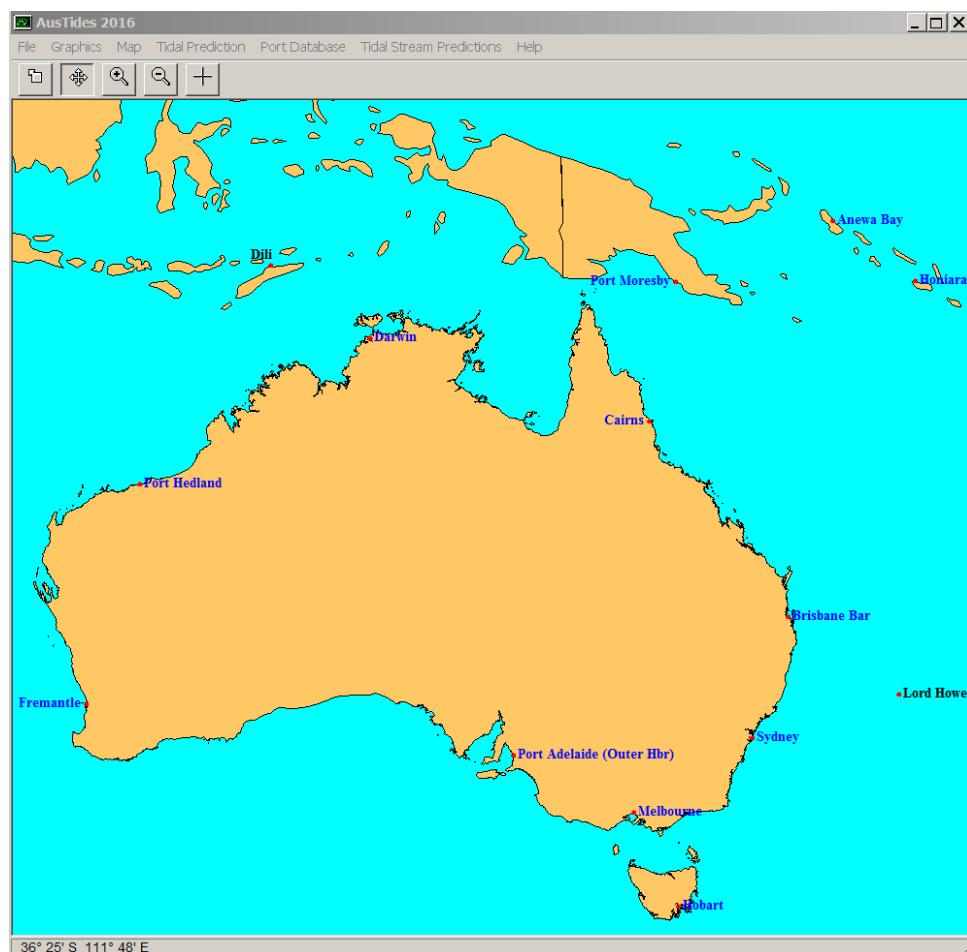
80

Albany, New York, 2015

Times and Heights of High and Low Waters

January				February				March			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 0048 5.1 155	9 0026 4.2 128	1 0214 5.2 158	16 0144 4.8 148	1 0102 5.4 165	16 0023 5.1 155	1 0715 5.9 155	16 0715 5.9 155	1 0120 5.4 165	16 0120 5.4 165	1 0715 5.9 155	16 0715 5.9 155
Th 0741 -0.3 -9	F 0705 0.1 121	Sa 0859 -0.1	M 0836 0.3 174	Su 0743 0.5 155	M 0715 0.9 155	Tu 1413 5.6 171	Tu 1333 5.9 180	W 0915 0.6 180	W 0915 0.6 180	Th 1428 6.0 183	Th 1428 6.0 183
15 1111 5.5 168	20 0654 0.4 122	15 1445 5.7 174	20 1153 5.9 180	15 1457 5.6 171	20 1153 5.9 180	15 2201 0.1 3	20 2201 0.1 3	15 2150 0.3	20 2150 0.3	15 2150 0.3	20 2150 0.3
20 1407 5.5 168	21 0604 0.4 122	20 1215 5.2 158	21 0246 -0.1	20 0933 0.1 174	21 0834 0.4 165	20 0915 0.6 180	21 0817 0.6 180	20 0915 0.6 180	21 0817 0.6 180	20 0915 0.6 180	21 0817 0.6 180
21 1205 5.5 168	21 0611 0.4 122	21 1215 5.2 158	21 0246 -0.1	21 0933 0.1 174	21 0834 0.4 165	21 0915 0.6 180	21 0817 0.6 180	21 0915 0.6 180	21 0817 0.6 180	21 0915 0.6 180	21 0817 0.6 180
22 0233 5.1 155	18 0211 4.4 134	22 0348 5.2 158	18 0222 5.3 162	22 0341 5.6 171	18 0212 5.7 174	22 0341 5.6 171	18 0212 5.7 174	22 0341 5.6 171	18 0212 5.7 174	22 0341 5.6 171	18 0212 5.7 174
Sa 0922 5.3 155	18 0258 0.1 134	18 0340 5.2 158	18 0222 5.3 162	18 0340 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162
Sa 1454 5.6 171	18 0317 5.4 165	18 0340 5.2 158	18 0222 5.3 162	18 0340 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162	18 0222 5.4 165	18 0222 5.3 162
O 2256 -0.4 -12	22 0243 -0.4	22 0317 5.4 165	22 0340 5.2 158	22 0352 -0.1	22 0353 -0.3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3
4 0321 5.1 155	19 0257 4.6 140	4 0431 5.1 155	19 0409 5.4 165	4 0325 5.7 174	19 0300 6.0 183	4 0325 5.7 174	19 0300 6.0 183	4 0325 5.7 174	19 0300 6.0 183	4 0325 5.7 174	19 0300 6.0 183
Sa 1000 5.3 155	19 0343 4.8 146	5 0513 5.1 155	20 0458 5.6 171	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189
St 1538 5.5 168	M 1503 5.6 171	Tu 1640 5.9 171	Th 1626 5.9 180	W 1538 5.6 171	Th 1519 0.2 189	W 1538 5.6 171	Th 1519 0.2 189	W 1538 5.6 171	Th 1519 0.2 189	W 1538 5.6 171	Th 1519 0.2 189
O 2256 -0.4 -12	22 0243 -0.4	22 0340 5.2 158	22 0352 -0.1	22 0353 -0.3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3	22 0241 0.1 3
5 0408 5.0 152	20 0343 4.8 146	5 0513 5.1 155	20 0458 5.6 171	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189	5 0406 5.7 174	20 0347 6.2 189
M 1624 5.4 168	Tu 1649 5.6 171	Th 1718 5.2 158	Th 1718 5.9 180	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168	W 1624 5.4 168
2341 -0.3 -9	● 2331 -0.4	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1	23 0231 -0.1
6 0454 4.9 149	21 0430 4.9 149	6 0529 0.0 155	21 0400 -0.3	6 0529 0.1 155	21 0400 -0.3	6 0444 5.6 171	21 0435 6.3 192	6 0444 5.6 171	21 0435 6.3 192	6 0444 5.6 171	21 0435 6.3 192
Tu 1136 0.1 133	W 1136 0.1 133	W 1136 5.7 174	W 1136 5.7 174	W 1136 5.7 174	W 1136 5.7 174	W 1136 5.7 174	W 1136 6.1 186				
Th 1702 5.3 162	● 2109 -0.1	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2	21 0254 -0.2
7 0022 -0.2 -6	22 0208 -0.5 -15	7 0104 0.2 155	22 0128 -0.2 -6	7 0104 0.2 155	22 0128 -0.2 -6	7 0520 5.6 171	22 0013 0.2 6	7 0520 5.6 171	22 0013 0.2 6	7 0520 5.6 171	22 0013 0.2 6
W 0540 4.8 146	22 0250 5.0 152	22 0632 5.0 152	22 0642 5.6 171	7 0209 5.5 155	22 0642 5.6 171	7 1209 5.5 155	22 0523 6.3 192	7 1209 5.5 155	22 0523 6.3 192	7 1209 5.5 155	22 0523 6.3 192
1216 5.0 152	Th 1227 -0.4	22 1310 0.5 155	22 1356 -0.2 -6	1216 5.0 152	Th 1310 0.5 155	1216 5.0 152	1245 0.0 190	1216 5.0 152	1245 0.0 190	1216 5.0 152	1245 0.0 190
1742 5.1 155	● 1733 -0.1	18 1926 5.0 155	18 1913 5.6 171	1742 5.1 155	18 1913 5.6 171	1742 5.1 155	1756 6.0 183	1742 5.1 155	1756 6.0 183	1742 5.1 155	1756 6.0 183
8 0103 0.0 143	23 0108 -0.5 -15	8 0137 0.3 155	23 0216 -0.1 -3	8 0137 0.3 155	23 0216 -0.1 -3	8 0007 0.5 155	23 0100 0.3 9	8 0007 0.5 155	23 0100 0.3 9	8 0007 0.5 155	23 0100 0.3 9
Th 1255 0.4 142	23 0202 -0.1 -3	8 0144 0.4 146	23 0202 -0.1 -3	8 0144 0.4 146	23 0202 -0.1 -3	8 0550 0.6 171	23 0137 0.1 9	8 0550 0.6 171	23 0137 0.1 9	8 0550 0.6 171	23 0137 0.1 9
1822 0.5 152	● 1836 -0.1	18 1851 0.9 149	18 1851 0.9 149	18 1851 0.9 149	18 1851 0.9 149	18 1851 0.9 149	1851 0.6 168	18 1851 0.9 149	18 1851 0.9 149	18 1851 0.9 149	18 1851 0.9 149
9 0141 0.1 143	24 0154 -0.5 -15	9 0208 0.4 155	12 24 0307 0.1 155	9 0208 0.4 155	12 24 0307 0.1 155	9 0058 0.6 155	24 0148 0.5 155	9 0058 0.6 155	24 0148 0.5 155	9 0058 0.6 155	24 0148 0.5 155
Th 1334 4.6 140	24 0202 -0.1 -3	9 0214 0.5 155	12 24 0307 0.1 155	9 0214 0.5 155	12 24 0307 0.1 155	9 0609 0.7 155	24 0139 0.3 9	9 0609 0.7 155	24 0139 0.3 9	9 0609 0.7 155	24 0139 0.3 9
1901 4.9 149	● 1931 -0.1	19 1931 5.5 168	19 1924 4.8 146	19 1924 4.8 146	19 1924 4.8 146	19 2111 5.4 165	19 1821 5.2 158	19 2111 5.4 165	19 1821 5.2 158	19 2111 5.4 165	19 1821 5.2 158
10 0219 0.2 146	25 0244 -0.4 -15	10 0240 0.2 155	25 0400 0.2 155	10 0240 0.2 155	25 0400 0.2 155	10 0129 0.7 21	25 0238 0.7 21	10 0129 0.7 21	25 0238 0.7 21	10 0129 0.7 21	25 0238 0.7 21
Sa 0755 4.6 140	25 0806 -0.4 -15	10 0752 5.1 155	25 0935 5.5 168	10 0752 5.1 155	25 0935 5.5 168	10 0627 5.8 171	25 0807 5.9 180	10 0627 5.8 171	25 0807 5.9 180	10 0627 5.8 171	25 0807 5.9 180
Sa 1441 4.6 140	25 0806 -0.4 -15	10 0752 5.1 155	25 0935 5.5 168	10 0752 5.1 155	25 0935 5.5 168	10 0627 5.8 171	25 0807 5.9 180	10 0627 5.8 171	25 0807 5.9 180	10 0627 5.8 171	25 0807 5.9 180
1940 4.8 148	● 2028 -0.2	20 2028 5.0 168	20 2049 4.8 146	20 2028 5.0 168	20 2049 4.8 146	20 1855 9.1 155	20 2049 5.6 168	20 1855 9.1 155	20 2049 5.6 168	20 1855 9.1 155	20 2049 5.6 168
11 0256 0.3 140	28 0336 -0.3	11 0320 0.5 165	28 0455 0.4 171	11 0320 0.5 165	28 0455 0.4 171	11 0202 0.8 27	28 0321 0.9 27	11 0202 0.8 27	28 0321 0.9 27	11 0202 0.8 27	28 0321 0.9 27
Sa 1503 0.7 140	M 1610 0.2 152	11 0627 0.9 155	28 0533 0.5 168	11 0627 0.9 155	28 0533 0.5 168	11 0504 1.0 27	28 0321 0.9 27	11 0504 1.0 27	28 0321 0.9 27	11 0504 1.0 27	28 0321 0.9 27
2001 0.7 140	● 2109 -0.1	21 0202 0.3 155	28 0533 0.5 168	21 0202 0.3 155	28 0533 0.5 168	21 0442 5.0 152	28 0321 0.9 27	21 0442 5.0 152	28 0321 0.9 27	21 0442 5.0 152	28 0321 0.9 27
12 0222 0.4 145	27 0159 -0.3 -15	12 0431 0.7 155	27 0552 0.5 168	12 0431 0.7 155	27 0552 0.5 168	12 0245 0.9 27	27 0436 1.0 30	12 0245 0.9 27	27 0436 1.0 30	12 0245 0.9 27	27 0436 1.0 30
M 1559 0.8 148	27 0102 -0.1	12 0710 -0.1 -3	27 0733 0.9 155	12 0710 -0.1 -3	27 0733 0.9 155	12 0602 1.1 27	27 0436 1.0 30	12 0602 1.1 27	27 0436 1.0 30	12 0602 1.1 27	27 0436 1.0 30
2115 4.4 154	● 2231 -0.1	12 2311 5.1 155	27 0733 0.9 155	12 2311 5.1 155	27 0733 0.9 155	12 2041 4.9 149	27 0436 1.0 30	12 2041 4.9 149	27 0436 1.0 30	12 2041 4.9 149	27 0436 1.0 30
13 0416 0.4 142	28 0524 -0.2 -6	13 0520 0.7 155	28 0007 5.3 162	13 0416 0.4 142	28 0007 5.3 162	13 0341 1.0 34	28 0522 1.1 34	13 0341 1.0 34	28 0522 1.1 34	13 0341 1.0 34	28 0522 1.1 34
Tu 1701 0.8 147	28 0620 -0.1	13 0710 -0.1 -3	28 0537 0.8 155	13 0710 -0.1 -3	28 0537 0.8 155	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34
1701 0.8 147	● 1810 -0.1	13 0710 -0.1 -3	28 0537 0.8 155	13 0710 -0.1 -3	28 0537 0.8 155	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34
1701 0.8 147	● 1810 -0.1	13 0710 -0.1 -3	28 0537 0.8 155	13 0710 -0.1 -3	28 0537 0.8 155	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34	13 0705 1.1 34	28 0522 1.1 34
14 0507 0.5 151	29 0620 -0.1 -3	14 0631 0.7 155	29 0505 4.5 137	14 0507 0.5 151	29 0505 4.5 137	14 0453 1.1 34	29 0619 1.2 37	14 0453 1.1 34	29 0619 1.2 37	14 0453 1.1 34	29 0619 1.2 37
W 1055 4.8 146	29 0715 -0.1 -3	14 0715 0.5 155	29 0736 0.5 155	14 0715 0.5 155	29 0736 0.5 155	14 0947 5.6 171	29 0627 5.6 171	14 0947 5.6 171	29 0627 5.6 171	14 0947 5.6 171	29 0627 5.6 171
1603 4.8 146	29 0715 -0.1 -3	14 0715 0.5 155	29								

Australian Example



BRISBANE BAR

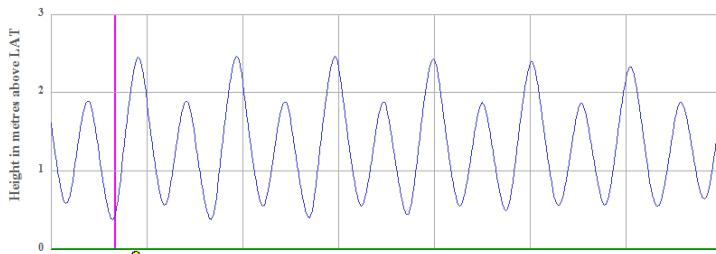
Local Standard
Time Zone: -10:00 U.T.

$27^{\circ} 22' S$ $153^{\circ} 10' E$

Year 2016

PREDICTION DATUM below MSL: 1.31 (m)

Port 59980



Jun 20 Mo	21 Tu	22 We	23 Th	24 Fr	25 Sa	26 Su
Time m	Time m	Time m	Time m	Time m	Time m	Time m
0343 0.6	0423 0.6	0503 0.5	0543 0.5	0624 0.5	0024 2.4	0109 2.3
0911 1.9	0951 1.9	1032 1.9	1115 1.9	1200 1.9	0707 0.5	0755 0.5
1520 0.4	1557 0.4	1635 0.4	1713 0.4	1755 0.5	1250 1.9	1347 1.9
2150 2.4	2227 2.5	2304 2.5	2343 2.4		1843 0.6	1939 0.6



16:00 0.4m



Moon phases supplied by
Sydney Observatory

No account is taken of Daylight Saving Time

These predictions are identical to those published in ANTT and can thus be used as an official navigational publication.

Prediction Datum is LAT, which may not be Chart Datum. Correction to Chart Datum can be found at:

Level / To Chart Datum Corrections and Zero of Predictions Window.

© Copyright Commonwealth of Australia 2015

Example from SHOM (France)

Select harbor

Close the map

Distribution area | Harbor selection | Generate harbor widget | More details | EN | FR |

Tides tables

© 2016 SHOM. Tous droits réservés.

Mentions légales | À propos du SHOM | CSV | FAQ | Barème public | Contact | Twitter | Facebook

SHOM L'océan en référence

Distribution area | Harbor selection | Generate harbor widget | More details | EN | FR | Tides tables

Select harbor

Show the map

Brest [France]  

Coordinates : 048° 23' 00.0" N, 004° 30' 00.0" W

Tides tables Water level by hour Tides coefficient

Monday February 5, 2018			Tuesday February 6, 2018			Wednesday February 7, 2018			Thursday February 8, 2018						
Hour	Height	Coefficient	Hour	Height	Coefficient	Hour	Height	Coefficient	Hour	Height	Coefficient				
LW	02:20	1.31	—	LW	03:03	1.74	—	LW	03:49	2.20	—	LW	04:42	2.62	—
HW	08:18	6.88	85	HW	08:59	6.40	71	HW	09:45	5.91	56	HW	10:41	5.48	43
LW	14:46	1.49	—	LW	15:30	1.98	—	LW	16:19	2.45	—	LW	17:17	2.81	—
HW	20:41	6.45	78	HW	21:24	6.02	63	HW	22:16	5.62	49	HW	23:21	5.34	39

• • • • • •

8

hauteur d'eau (m)

05:05 - 3.95m 11:40 - 3.96m 17:35 - 3.98m 23:55 - 3.96m

00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30 20:30 21:30 22:30 23:30 23:55

Standard time

You can display the water level to a given hour [Water level option] or the hours according to a threshold [Threshold option]. Click on the chart to put a line [keep the mouse pressed to move the line] or enter a value in the following field.

Water level Threshold None

4  

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Dossiers de l'OHI n° S3/8151 & S3/6004

Proposition de nouvelle résolution de l'OHI 01/2019

Bulletin de vote

(à retourner au Secrétariat de l'OHI au plus tard le 31 août 2019)

Courriel : cl-lc@iho.int – Télécopie : +377 93 10 81 40

Note : Les cases s'agrandissent au fur et à mesure de la saisie des réponses.

Etat membre :

Correspondant :

Courriel :

Approuvez-vous la proposition de nouvelle résolution de l'OHI 01/2019 ?

OUI

NON

Si votre réponse est « NON », veuillez en expliquer les raisons dans la section commentaires ci-dessous.

Commentaires :

Signature :

Date :
