

Tide Tables Contain Which Of The Following

GIBSONS PST Z+8				2016				TIDE TABLES			
January-janvier				February-février				March-mars			
Day	Time	Feet	Mètres	Day	Time	Feet	Mètres	Day	Time	Feet	Mètres
1	0319	7.2	2.2	16	0323	6.9	2.1	1	0406	10.5	3.2
FR	1245	15.4	4.7	SA	1009	16.1	4.9	16	0932	13.5	4.1
VE	2307	10.5	3.2	SA	1711	6.6	2.0	TU	1702	5.9	1.8
				SA	2308	11.8	3.6	MA			
2	0403	8.5	2.6	17	0421	8.5	2.6	2	0044	12.8	3.9
SA	1105	15.1	4.6	18	0523	15.7	4.8	17	0522	11.2	3.4
SA	1837	7.2	2.2	SU	1811	5.2	1.6	WE	1019	13.1	4.0
				DI				ME	1802	5.6	1.7
3	0056	10.8	3.3	18	0054	12.1	3.7	3	0202	13.1	4.0
0459	9.8	3.0		19	0533	9.8	3.0	18	0653	11.5	3.5
SU	1142	14.8	4.5	MO	1141	15.4	4.7	TH	1122	12.8	3.9
DI	1923	6.2	1.9	LU	1910	4.3	1.3	JE	1906	5.2	1.6
4	0231	11.8	3.6	19	0227	13.1	4.0	4	0258	13.8	4.2
MO	0815	10.8	3.3	20	0657	10.8	3.3	5	0341	14.1	4.3
LU	1220	14.4	4.4	TU	1234	15.1	4.6	12	0812	14.8	4.5
MA	2006	5.6	1.7	MA	2000	3.3	1.0	SA	1438	12.5	3.8
				SA				SA	2107	5.2	1.6
5	0336	12.8	3.9	20	0338	14.1	4.3	20	0908	14.8	4.5
0736	11.5	3.5		WE	0819	11.5	3.5	21	1013	8.5	2.6
TU	1301	14.4	4.4	WE	1332	14.8	4.5	SU	1535	12.8	3.9
MA	2045	4.6	1.4	ME	2058	2.6	0.8	DI	2154	5.2	1.6
				DI							
6	0423	13.5	4.1	21	0433	15.1	4.6	6	0415	14.4	4.4
0845	11.8	3.6		21	0928	11.5	3.5	0943	10.2	3.1	
WE	1345	14.4	4.4	TH	1429	14.8	4.5	SU	1451	13.8	4.2
ME	2123	3.9	1.2	JE	2146	2.3	0.7	DI	2144	3.6	1.1
				SA	2213	3.0	0.9	LU	2235	5.6	1.7

Tide Tables Contain Which of the Following? A Comprehensive Guide

Navigating coastal waters safely and effectively requires understanding the rhythm of the tides. This isn't just about romantic beach walks; precise knowledge of tidal movements is crucial for boating, fishing, surfing, and even coastal construction. But what information do tide tables actually contain? This comprehensive guide will decipher the essential elements found within tide tables, helping you unlock the secrets of the ocean's ebb and flow. We'll explore not just what's included, but also why this information is critical for various activities.

What are Tide Tables and Why are They Important?

Tide tables are essentially detailed predictions of high and low tides for specific locations. They're not just arbitrary numbers; they are carefully calculated predictions based on complex astronomical interactions between the sun, moon, and Earth. Understanding these predictions is paramount for various reasons:

Safety: Knowing the timing and height of tides is crucial for safe navigation, preventing grounding of boats and ensuring sufficient water depth for passage.

Fishing & Aquaculture: Tidal currents heavily influence the distribution of marine life, affecting fishing success. Understanding tidal patterns is critical for optimizing fishing times and locations. In aquaculture, tidal cycles impact water exchange and oxygen levels in fish farms.

Coastal Engineering & Construction: Construction projects near the coast must account for tidal fluctuations to prevent damage and ensure the structural integrity of buildings and infrastructure.

Recreation: For surfers, understanding tide heights and timing is key to finding the best waves.

Similarly, beachgoers can plan their visits around high and low tides to maximize their enjoyment.

Essential Data Points Found in Tide Tables

Tide tables, while seemingly simple, are packed with crucial information. Here's a breakdown of the core data points you'll find:

1. Time of High and Low Tides:

This is the most fundamental information. Tide tables clearly list the predicted times of both high and low tides for each day. These times are typically expressed in hours and minutes, using a 24-hour clock. Accuracy varies depending on the table's source and prediction model.

2. Height of High and Low Tides:

Equally crucial is the predicted height of high and low tides. This is usually measured in feet or meters above a specific datum, a reference point that's usually Mean Lower Low Water (MLLW) or Mean Sea Level (MSL). Knowing the height helps to determine the navigable depth of water at a particular location.

3. Tidal Range:

The tidal range refers to the difference in height between consecutive high and low tides. A large tidal range indicates a significant vertical movement of water, while a small tidal range signifies less dramatic changes. This is important for understanding the overall tidal activity at a particular location.

4. Datum:

As mentioned earlier, understanding the datum used in the tide table is crucial. Different countries and organizations may use different datums (e.g., MLLW, MSL). It's critical to know which datum the tide table employs to correctly interpret the height data. Inconsistent datum use is a frequent source of error for novice users.

5. Location Specific Data:

Tide tables are location-specific. A table for one harbor or coastal area is not applicable to another, even if geographically close. The geographic coordinates of the location for which the tide predictions are made are explicitly stated.

Beyond the Basics: Additional Information Often Included

While the core elements above are standard, some tide tables may include additional information to

enhance their usability:

Sunrise/Sunset Times: This helps correlate tidal patterns with daylight hours, useful for planning activities.

Moon Phase Information: The moon's gravitational pull is the primary driver of tides, so moon phase information can provide context to the tidal patterns.

Current Information: Some advanced tide tables might include predictions of tidal currents, indicating the speed and direction of water movement.

Graphical Representations: Some tables incorporate graphical representations of tidal curves, providing a visual representation of the tidal cycle.

Choosing and Using Tide Tables Effectively

The reliability of your tidal information depends heavily on the source. Opt for reputable sources such as NOAA (National Oceanic and Atmospheric Administration) in the US, or equivalent national hydrographic offices in other countries. These organizations utilize sophisticated prediction models and regularly update their data for accuracy. Always double-check the date and location to ensure you're using the correct table. Remember, tide tables are predictions, not absolute guarantees, and weather conditions can influence actual tidal heights and times.

Conclusion

Tide tables, though seemingly simple, are indispensable tools for anyone interacting with coastal waters. Understanding the data they contain—high and low tide times and heights, tidal range, and the datum—is crucial for ensuring safety, optimizing activities, and managing coastal resources. By carefully selecting reputable sources and understanding the nuances of the information provided, you can unlock the power of these crucial navigational and planning tools.

FAQs

1. Are tide tables accurate? Tide tables are predictions based on astronomical calculations, and their accuracy depends on the prediction model and local conditions. Weather can slightly influence actual tide heights and times.
2. How often are tide tables updated? Tide tables are typically updated annually or even more frequently by authoritative sources to account for slight variations and refine prediction models.
3. Can I find tide tables online? Yes, many websites offer free and paid tide table services, often with interactive maps and visualization tools. NOAA's website is a great starting point for US-based users.

4. What is the difference between Mean High Water (MHW) and Mean High Water Springs (MHWS)? MHW represents the average of all high tides over a long period. MHWS represents the average of the highest high tides during spring tides (when the sun, moon, and Earth are aligned).
5. How do I interpret negative tide heights? Negative tide heights indicate that the water level is below the chosen datum (e.g., MLLW). This doesn't mean the water is below the seabed, but simply below the reference point used for the measurements.

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