

Tide Tables Contain Which Of The Following

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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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tide tables contain which of the following: *Tide Tables, High and Low Water Predictions* United States. National Ocean Service, 1983

tide tables contain which of the following: *Tide Tables, High and Low Water Predictions ... Central and Western Pacific Ocean and Indian Ocean* , 1997

tide tables contain which of the following: Tide Tables, High and Low Water Predictions, West Coast of North and South America, Including the Hawaiian Islands National Ocean Survey, U.S. Coast and Geodetic Survey, 1982 Contains a table of the predicted times and heights of the high and low waters for each day of the year at a number of places, which are designated as reference stations.

tide tables contain which of the following: *Tide Tables, High and Low Water Predictions, West Coast of North and South America, Including the Hawaiian Islands* U.S. Coast and Geodetic Survey, United States. National Ocean Service, 1983 Contains a table of the predicted times and heights of the high and low waters for each day of the year at a number of places, which are designated as reference stations.

tide tables contain which of the following: *Tide Tables, East Coast of North and South America, Including Greenland* , 1988

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tide tables contain which of the following: First [and Second] Report[s] of the Commissioners Great Britain. Royal Commission on Tidal Harbours, 1846

tide tables contain which of the following: Tidal Current Tables, Pacific Coast of North America and Asia , 1982 Contains daily predicted times of slack water and predicted times and velocities of maximum current.

tide tables contain which of the following: Water Levels Canada. Tides and Water Levels, 1970

tide tables contain which of the following: *Geographical Review* Isaiah Bowman, G. M. Wrigley, 1921

tide tables contain which of the following: Water Levels of the Great Lakes, St. Lawrence River System, Atlantic Coast, Arctic Coast Canadian Hydrographic Service, 1966

tide tables contain which of the following: Annual Report of the Directory United States. Coast and Geodetic Survey, 1854

tide tables contain which of the following: Tide Tables 2014 - High and Low Water Predictions NOAA, 2013-11-19 The Tide Tables contain daily High and Low Water Predictions for the Central and Western Pacific Ocean and Indian Ocean

tide tables contain which of the following: Report of the Superintendent of the Coast Survey. Showing the Progress of the Survey During the Year ... United States Coast Survey, 1855

tide tables contain which of the following: Report of the Superintendent ... Showing the Progress of the Work U.S. Coast and Geodetic Survey, 1922

tide tables contain which of the following: Annual Report of the Director of the Coast and Geodetic Survey U.S. Coast and Geodetic Survey, 1873

tide tables contain which of the following: Senate Documents United States Senate, 1855

tide tables contain which of the following: Annual Report of the Director U.S. Coast and Geodetic Survey, 1922

tide tables contain which of the following: Tide Tables, High and Low Water Predictions U.S. Coast and Geodetic Survey, 1958

tide tables contain which of the following: Tide Tables U.S. Coast and Geodetic Survey, 1898

tide tables contain which of the following: Annual Report of the Director, United States Coast and Geodetic Survey, to the Secretary of Commerce U.S. Coast and Geodetic Survey, 1854

tide tables contain which of the following: Computational Techniques for Tidal Datums Handbook, 2003

tide tables contain which of the following: Tide Tables for the Year ..., 1899

tide tables contain which of the following: Sessional Papers of the Dominion of Canada Canada. Parliament, 1890 Report of the Dominion fishery commission on the fisheries of the province of Ontario, 1893, issued as vol. 26, no. 7, supplement.

tide tables contain which of the following: Sessional Papers, 1890 Report of the Dominion fishery commission on the fisheries of the province of Ontario, 1893, issued as vol. 26, no. 7, supplement.

tide tables contain which of the following: Tide Tables, [United States and Foreign Ports] U.S. Coast and Geodetic Survey, 1899

tide tables contain which of the following: Tide Tables for the Years, 1900-19__. United States. Coast and Geodetic Survey, 1899

tide tables contain which of the following: Tide Tables 2014 NOAA, 2013-11-19 Tide Tables contain daily high and low water predictions for Europe and West Coast of Africa

tide tables contain which of the following: Physical Oceanography Albert Defant, 1961

tide tables contain which of the following: Sessional Papers of the Parliament of the Dominion of Canada Canada. Parliament, 1894

tide tables contain which of the following: ...Tide Tables for the Pacific Coast of the United States Together with a Number of Foreign Ports in the Pacific Ocean U.S. Coast and Geodetic Survey, 1907

tide tables contain which of the following: Admiralty Tide Tables, 1969

tide tables contain which of the following: World War II History of the Coast and Geodetic Survey U.S. Coast and Geodetic Survey, 1951

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