

## Chapter 9 Tides And Tidal Currents

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a tidal pattern exhibiting two high tides and two low tides per tidal day with small inequalities between successive highs and successive lows. tidal period of 12 hours 25 minutes mixed tidal pattern a tidal pattern exhibiting two high tides and two low tides per tidal day with a marked diurnal inequality.

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A nodal, or "no-tide," point in the ocean or sea around which the crest of the tide wave rotates during one tidal period. Cotidal lines: ... Chapter 9: Tides. 59 terms. Ocean Tides. OTHER SETS BY THIS CREATOR. 49 terms. Animals of the Benthic Environment (chapter 15) 54 terms.

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CHAPTER 1 INTRODUCTION This book presents an elementary explanation of tides and tidal datums. It is written to explain the natural phenomenon of tides in terms and concepts readily understandable by students as well as those in all walks of life merely wishing to be enriched by additional knowledge of their environment.

### TIDES AND TIDAL DATUMS

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If the incoming tidal current is stronger than the river outflow, the tidal bore appears as a wave, or moving wall of water that moves up the river as the tide comes in (Figure 11.3.5). Figure 11.3.5 A tidal bore near Silverdale in the United Kingdom (Arnold Price [CC BY-SA 2.0], via Wikimedia Commons).

### 11.3 Tide Classification - Introduction to Oceanography

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Now the tidal range is small, with low high tides and high low tides (Figure 11.1.6). These are neap tides, and occur every two weeks, when the moon is in its 1/4 and 3/4 phases (Figure 11.1.7). Figure 11.1.6 Neap tides are created during 1/4 and 3/4 moons when the Earth, sun and moon are perpendicular to each other. The solar and lunar tides ...

### 11.1 Tidal Forces - Introduction to Oceanography

Chapter 3 - Detailed Explanation of the Differential Tide Producing Forces. The tide-raising forces at the earth's surface thus result from a combination of basic forces: (1) the force of gravitation exerted by the moon (and sun) upon the earth; and (2) centrifugal forces produced by the revolutions of the earth and moon (and earth and sun) around their common center-of-gravity (mass) or ...

### NOAA Tides & Currents

The previous chapter discussed various types of waves at sea and along the shore. However, at

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least in terms of wavelength, the largest waves in the ocean are the tides, where one wavelength stretches halfway around the Earth. The crests of these long waves represent the high tides, while the troughs create low tides.

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