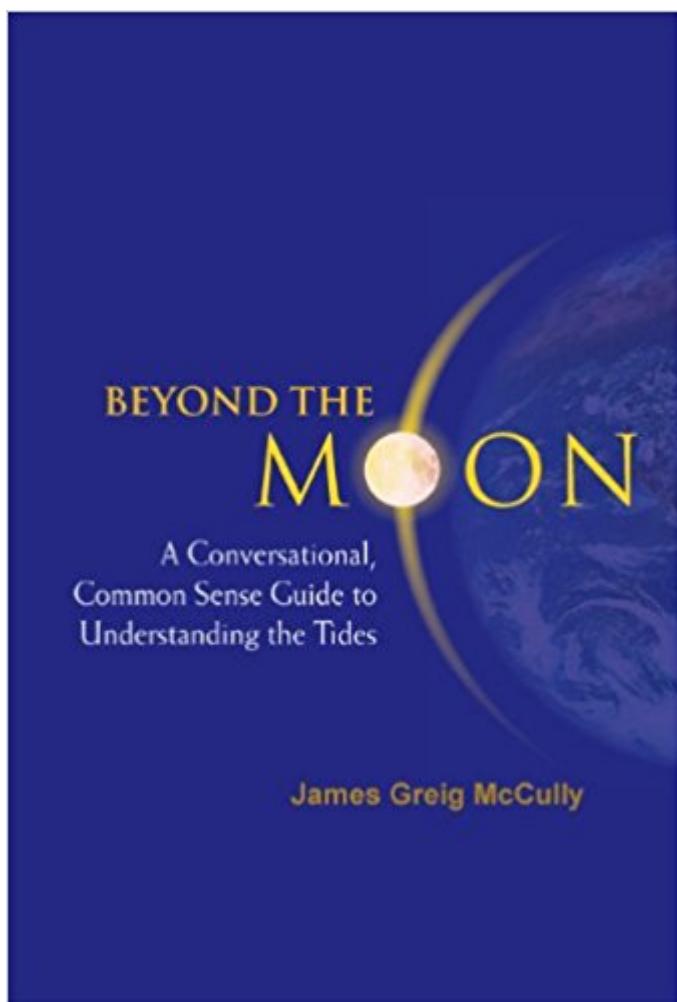


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# Beyond The Moon:A Conversational, Common Sense Guide To Understanding The Tides



## Synopsis

Finally, someone has written a comprehensive, easily readable explanation of the tides on earth that is both simple enough for students and solid enough for their professors. Step by step, by analogy and illustration, Beyond the Moon describes how the cyclical motion of the near solar system is impressed upon the earth's oceans, and how the hydraulics over the continental shelf and the geography of the coastline orchestrate this rhythm into the bewildering variety of tide patterns seen around the globe. This volume demystifies the complexity of the tides by systematically examining its many constituents and demonstrates that: "Nature is, at once, awesome in complexity and beautiful in simplicity."

Contents:

- The Tides in History.
- The Challenge of Understanding the Tides on Earth
- The Lunar Orbit
- Solar Influences and Solar-Lunar Interaction.
- Gravitation and Tractal Forces
- Celestial Harmonics
- The Coriolis Force and Oceanic Amphidromes.
- Coastal Kelvin Waves.
- Tidal Currents.
- Sea Level
- The Seiche Effect and Basins of Oscillation.
- Tidal Intermixing
- Coastal Geography and Near Shore Topography, Resonant Co-Oscillation and Sustained Forcing
- Shallow Estuaries and Tidal Pumping.
- Tidal Bores
- The Computation of the Tide-Tables.
- Chaos Theory
- The Weather and the Tides.
- Atmospheric Tides
- Tidal Influence on Marine Biology.
- The Tides and Saltwater Fishing.
- Practical Tide-Table Information for Coastal Boaters
- The Constituents of the Tides on Earth.
- Synopsis of Tidal Influences
- Epilogue
- Definitions
- Readership: Undergraduate oceanography students and secondary science students, as well as their teachers. The general public with an interest in science and nature. Coastal boaters, sailors, yachtsmen, and fishermen.

## Book Information

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## **Customer Reviews**

I wanted to understand why tide swings in Puget Sound were greater than the tide swings at La Push, on the Pacific Ocean. It didn't answer that question directly, but supplied enough information to identify the various influences of the tides. So, the attraction of the moon causes the earth's crust to deflect about 10 inches, and the attraction of the moon and sun together causes a water bulge of 18 inches, which doesn't nearly explain the 50 foot tide swing at, say, the Bay of Fundy. This is really a well prepared and well illustrated book about tides. If you have any interest in the subject, I would strongly recommend this book.

FINALLY, SOMEONE HAS WRITTEN A COMPRHENSIVE AND LUCID EXPLANATION OF THE TIDES ON EARTH. THIS IS A MUST-READ FOR ALL BOATER, SAILORS, SALT WATER FISHERMEN, AND ANYONE WHO LOVES NATURE AND THE SEA.

Great explanation and easy to understand.

If you're interested in a mostly non-technical detailed description of the forces that influence tides, read this book. I had to work a bit beyond the level of effort I'm used to putting into bedtime reading to understand some of the concepts and some of the author's personal anecdotes are a bit distracting. However, as a layman non-oceanographer, I found Beyond the Moon really interesting. Did you know that the oceans oscillate like water in a big basin that has been bumped? I didn't. This is a treasure of a book that you'll pick up again after your next fishing or sailing trip to re-understand what was pushing the boat around.

Great book and easily readable making hard ideas easy to understand

The author strikes the right balance of story telling and technical detail. This book confirmed some things I learned years ago, explained some things I suspected or observed, and layered it in a way that was easy to assimilate. If you work on the water, and you want to go beyond the mechanical calculation of the tide, this book is the next logical step.

Gift for my son - he loved it!

In the event one is interested in the how and why of the tides this is a good read. Even if you are not but enjoy a fuller awareness of the world around you it is still a good read. The first 4 chapters are the core of the subject and then he nicely digresses on specific tidal situation. Fun.

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