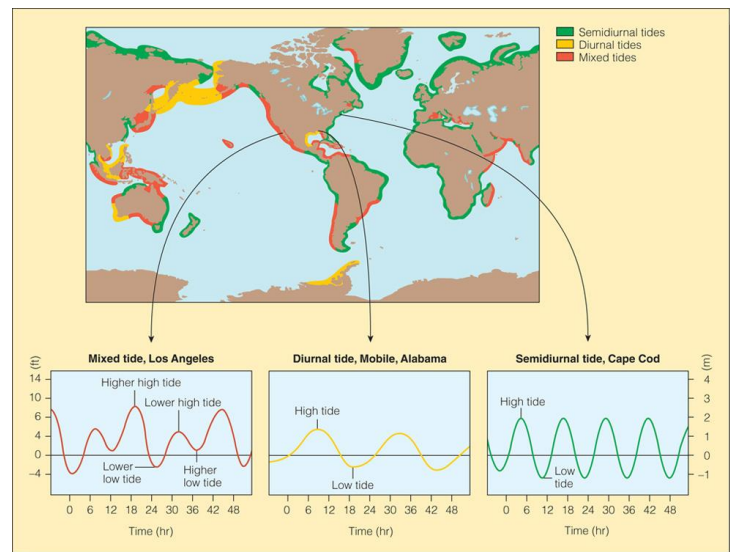


Tides Study Guide –

If you want you can read more about tides in Chapter 11 of your textbook.

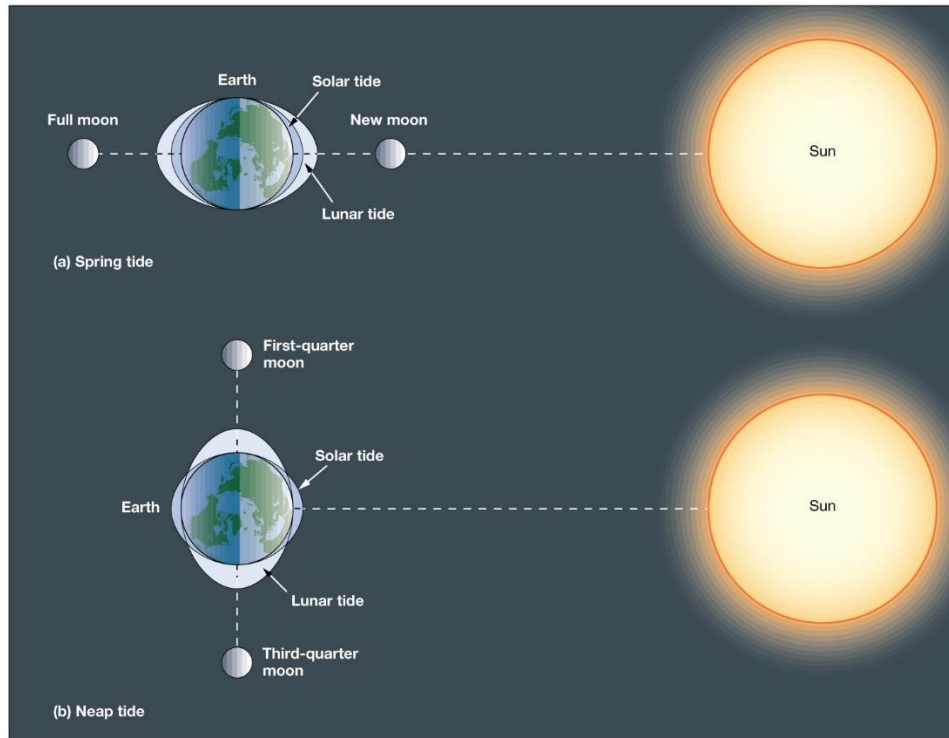
Tides are waves

- **Tides** – periodic short-term changes in height of ocean surface at a particular place
 - Caused by:
 - Gravity from the sun and moon
 - Motion of Earth
 - Inertia of water
- **Lunar day is 24.5 hours**
- **Common tidal patterns**
 - Semidiurnal tides – occur twice in a lunar day
 - Diurnal tides – occur once in a lunar day
 - Mixed tides
 - Distribution of tides around the globe:



- **Spring Tide vs. Neap Tide**
 - A **spring tide**—popularly known as a "King Tide"—refers to the '**springing forth**' of the **tide** during new and full moon.

- A **neap tide**—seven days after a spring tide—refers to a **period of moderate tides** when the sun and moon are at right angles to each other.



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- **Animals use tides in different ways.** For example, in: feeding, migration, mating.