

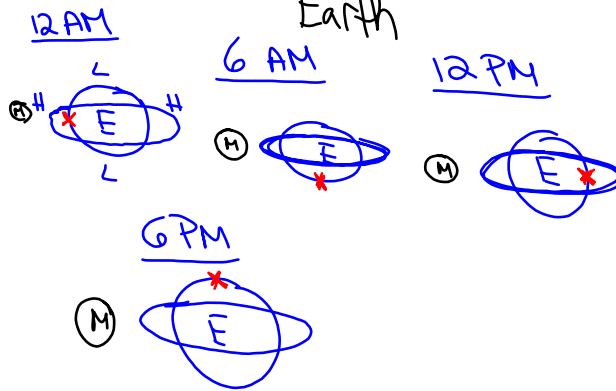
Oceanography

I. Three major concepts

- ① Tides
 - ② Currents
 - ③ Waves
- } movement of water

II. Tides

② Def → the regular rise and fall in sea level due to the gravitational forces of the moon, the sun, + the Earth

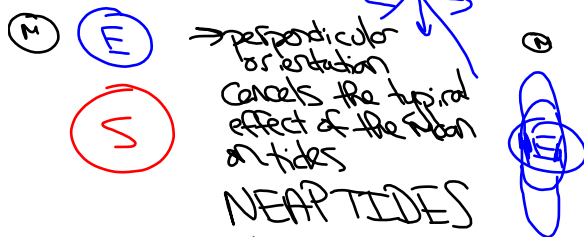


↳ high tide → high tide
12 hrs 25 minutes

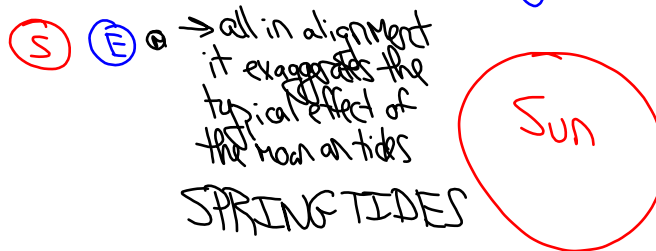
↳ low → low tide
12 hrs 25 minutes

high → low → high → low →
6 hrs 6 hrs 6 hrs 6 hrs

SUN??



NEAP TIDES



SPRING TIDES

III. Currents

a) coherent stream of water that flows in the same direction w/in a body of water

b) Causes

① Temperature > Thermohaline currents

② Salinity

③ Shape of the Earth (seafloor)

④ Movement of the Earth

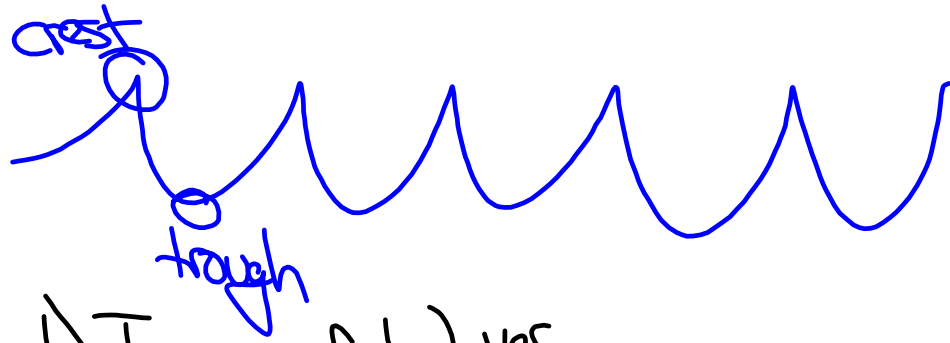
*Coriolis Effect

⑤ Wind (*Surface currents)



IV. Waves

a) The regular up+down movement of water

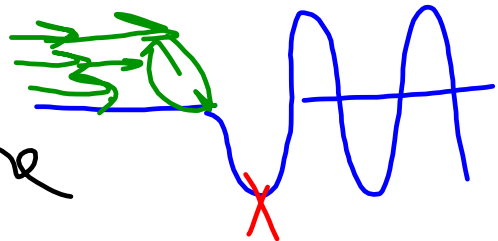


b) Types of Waves

- ① Surface Waves*
- ② Underwater Waves
- ③ Tsunamis
- ④ Tidal Wave

c) Causes

- ① Wind
- ② Shoreline



- ③ Seismic Activity
Tsunamis