Movements of ocean water:

There are different types of movements of ocean water is never still. different physical characteristics like temperature, salinity, density, etc. and the winds.

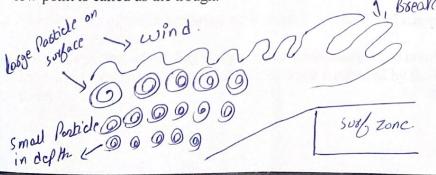
The major movements of the ocean waters can be classified into three. They are:

- 1. Waves
- 2. Tides
- 3. Ocean Currents

Waves and the ocean currents are horizontal movements of ocean waters while the tide is a kind of vertical movement of the ocean water.

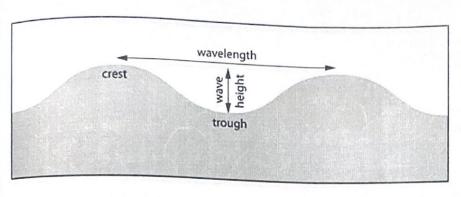
Waves:

- Waves are nothing but the oscillatory movements that result in the rise and fall of water surface.
- Waves are a kind of horizontal movements of the ocean water.
- They are actually the energy, not the water as such, which moves across the ocean surface.
- This energy for the waves is provided by the wind.
- In a wave, the movement of each water particle is in a circular manner.
- A wave has two major parts: the raised part is called as the crest while the low-point is called as the trough.



-) wind not only Produce Cossent at Create's waves; of wind blow across the smooth water surface The Exiction you are 3 water can Produce.

> when we've legingth Decreases than wave hight decrease.



The Region Consisting on Breaker's called supported wave Refraction

when wave strike to shore line with Some angle their Direction change this is called wave Refraction

when wave strike to shore current wave Refraction

long shore current

Jue to wave refraction long share cussent Produced.

long shope custent

The Porrallel movement of wave is called

long shope custent when the wave or long shope

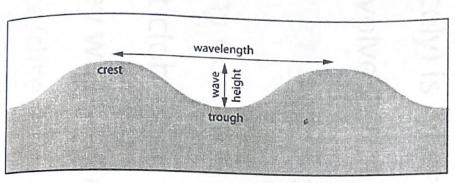
custent's reactive's to the cost. They hit the coast's I return

Boch in a form of Rip Current.

Rip Corsent

> when we've legength Decesses than wave hight decrease.

> wave length as depth one interselated to each other.



The Region Consisting on Breaker's called subjection

when wave strike to shore line with

some angle their Direction change this is called wave Refrontion

when wave long shore current

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

long shore current

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

when wave strike to shore line with

The Region Consisting on Breaker's called subjection

The Region Consisting on Breaker's called subjection

The Region Consisting on Breaker's called subjection with

Some ongle their Direction change this is called as a subject of the consistency of the c

long shope custent

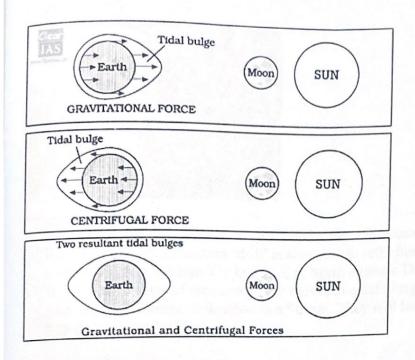
The Portablel movement of wave is called

long shope custent- when the wave as long shope

custent's seache's to the cost. They hit the coast's 3 return

Boch in a form of Rip Current

Rip Cubsent

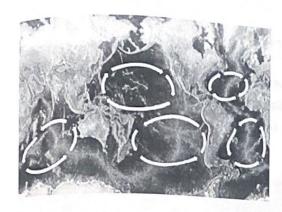


- The highest tides in the world occur in the Bay of Fundi in Canada.
- When the tide is channeled between islands or into bays and estuaries, they are termed as Tidal Currents.
- The regular interval between two high or two low tides is 12 hours 25 minutes.

Ocean Currents:

The ocean currents are the horizontal flow of a mass of water in a fairly defined direction over great distances.

- They are just like a river flowing in an ocean.
- Ocean currents can be formed by the winds, density differences in ocean waters due to differences in temperature and salinity, gravity and events such
- The direction of movement of an ocean current is mainly influenced by the
- Any large system of rotating ocean current, particularly those involved with large wind movements is called as a Gyre. They are caused by the Coriolis force.



• When the ocean water moves forward under the influence of prevailing wind, it is called as Drift(The term 'drift' is also used to refer the speed of an ocean current which is measured in knots). E.g. North Atlantic Drift.

• When a large mass of the ocean water moves in a definite path just like a large river on the continent, it is called as a Stream. They will have greater speed than drifts. E.g. Gulf Stream.