<u>Shoreline Features</u>

- * Waves move faster in deeper water than shallow water.
- * Wave Refraction: Difference in wave speed cause wave to bend when in shallow water.

Beach: sloping band of sand, pebbles, gravel or mud at the edge of the sea.

* Beach made up of loose sediment deposited and moved by waves.

- Sizes of particles depend on how powerful the water is.
- More power=bigger particles

Estuaries: freshwater source enters the ocean.

Rip Currents: caused by wave action, which allow water to return to the sea through caps in longshore bar.

Protective structures

E.g.: seawalls, groins, jetties and breakers.

*Built to prevent beach erosion and protect property.

<u>Changes in sea level</u>

* Height of last ice age: sea level 130 m lower then today.

* 10-15 cm increase in sea level over last 100 years.

<u>Seafloor</u>

- * Sea floor is rough and irregular.
- * Deepest place: Marianas Trench=deeper then Mt. Everest.
- * Earth has two types of crust: Oceanic and Continental
- * Submerged parts of continents are continental margins.
- * Shallowest part of continental margins is the continental shelf.