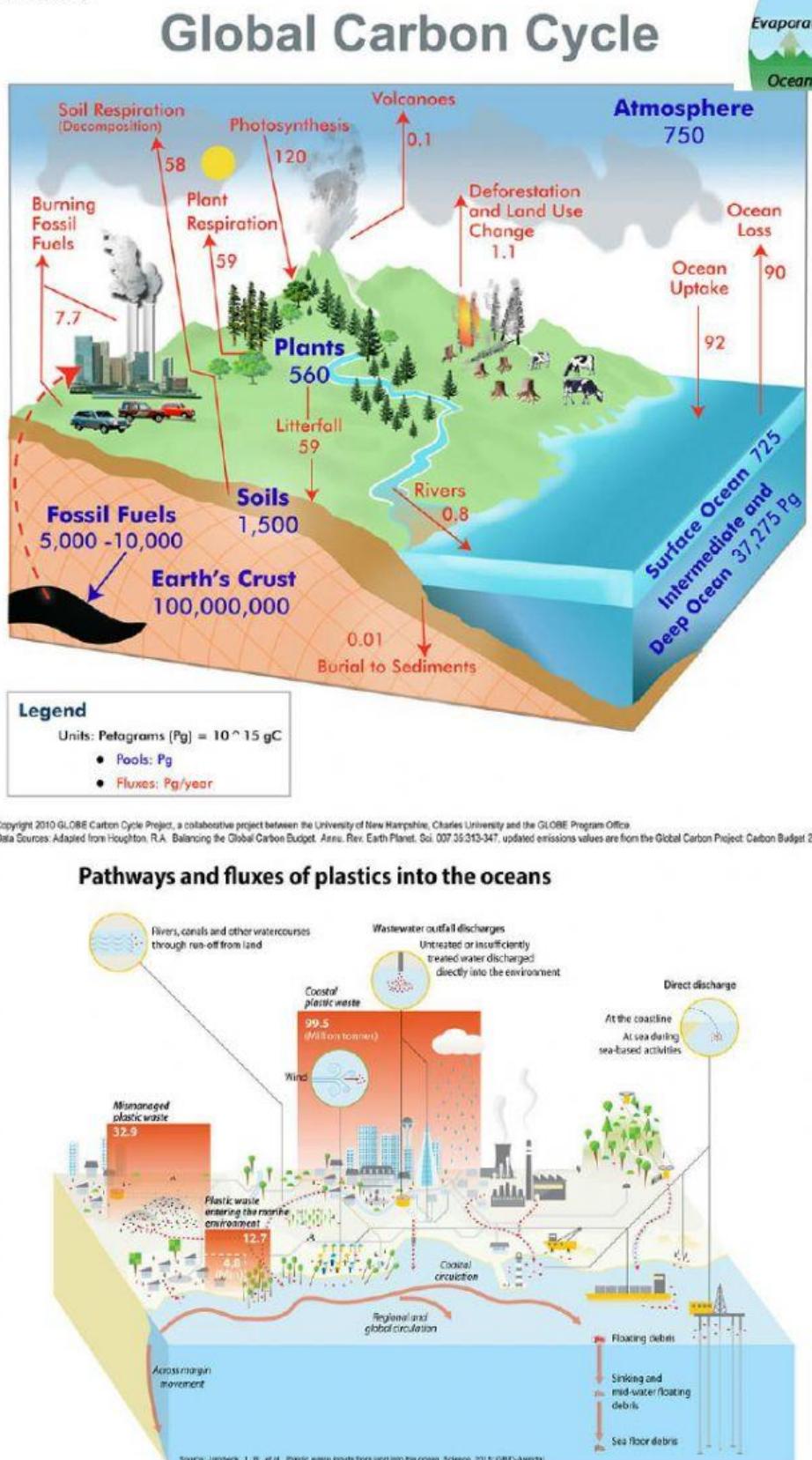
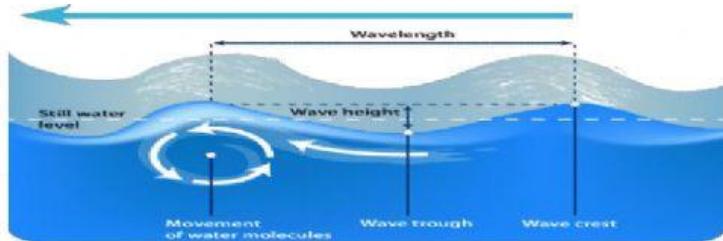
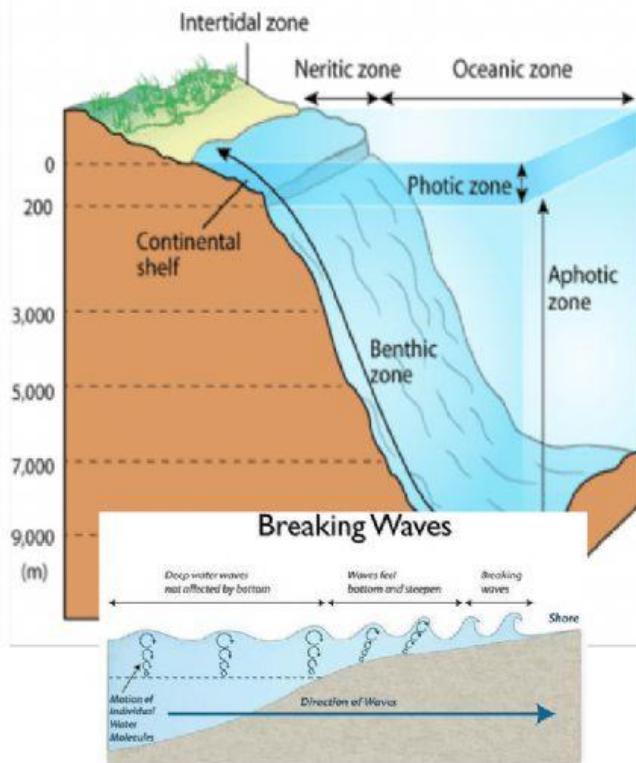


9.4 Wind Waves





Ocean Zones



The intertidal zone

is closest to shore. At high tide it is covered with water. At low tide, it is exposed to air. Living things must adapt to changing conditions and moving water in this zone.

The neritic zone

lies over the continental shelf. The water is not very deep. There are plenty of nutrients and sunlight. Many organisms live in this zone.

The oceanic zone

is the open ocean out past the continental shelf. The water may be very deep. Nutrients may be scarce. Fewer organisms live in this zone.

The photic zone

is the top 200 meters of water. This zone has enough sunlight for photosynthesis. That's why there are more living things here than in the aphotic zone.

The aphotic zone

is water below 200 meters. There isn't enough sunlight here for photosynthesis. Living things must eat whatever drifts down from above or each other. That's why there are fewer living things here than near the surface.

The benthic zone

is on the ocean floor. The ocean floor drops as you move away from the continents. There are fewer living things on the ocean floor where the water is very deep.

1. How does a wave break onshore? How does a wave break in the ocean?
2. How does a wave move across the ocean?
3. How do hurricanes create large waves?

1. What can cause waves?
2. Where does the energy in a wave come from and how does it get into the wave?
3. What three factors affect the size and strength of waves?
4. How are large waves created?
5. What causes a wave to break at the shore?

