

FORM 4 GEOGRAPHY NOTE 8

2. WAVES

Waves are the up and down motion of the sea.

Wave formation

- Ocean waves are caused by wind moving across the surface of the water.
- The friction between the air molecules and the water molecules causes energy to be transferred from the wind to the water.
- It travels in a circular motion.
- The longer, further and faster the wind blows the bigger the wave.

Problems caused by waves on the environment

- Sediment transport
- Coastal erosion
- Deposition of sediments

Tsunami

- It is the most feared wave in the Pacific.
- It's one of the world's most powerful and destructive natural forces.
- It's a large ocean wave usually caused by an underwater earthquake or a volcanic explosion.

Tsunami effects on people and environment

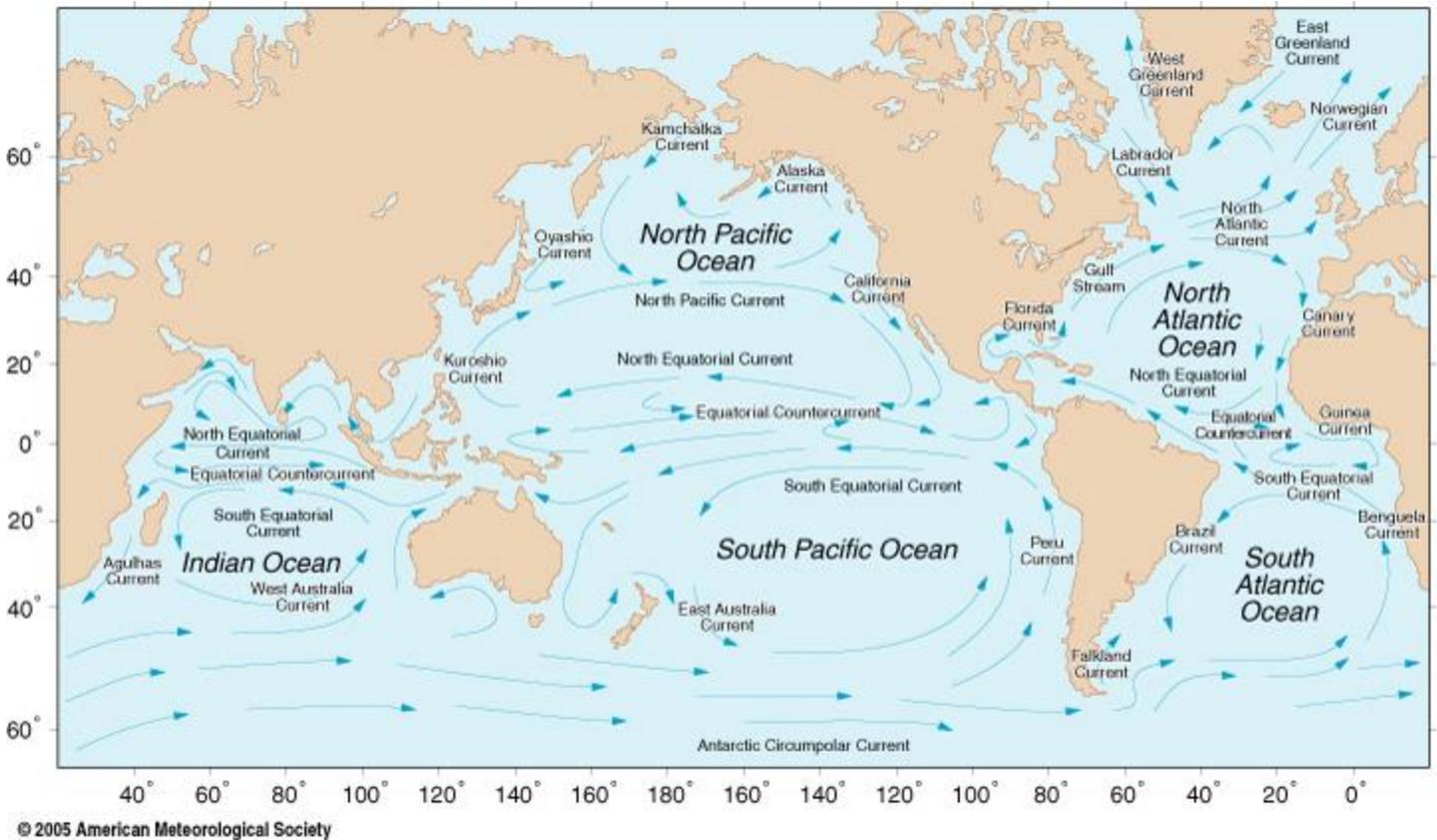
PEOPLE	ENVIRONMENT
Death	Destroy infrastructure
Drowning	Destroy vegetation and animals
Injured	Leave salt deposits on land that can cause hunger and disease

3. CURRENTS

Ocean current is a continuous movement of ocean water from one place to another.

Warm currents	Cold currents
North Equatorial	Peru
Southern Equatorial	California
Kuroshio	
North Pacific	
East Australia	
Equatorial Counter	

You can find the warm and cold currents in this map.



ACTIVITY 1: Paragraph Writing. Read the questions provided to form paragraphs. One question is one paragraph.

1. Discuss problems that are caused by waves on the environment.
2. Discuss the impacts of a tsunami on people.
3. Develop recommendations or suggestions to solve the negative effects of waves and tsunamis.

ACTIVITY 2: Use the notes on currents to answer the questions that follow.

1. Define the word ocean currents.
2. List some warm currents in the Pacific Ocean.
3. List some cold currents in the Pacific Ocean