Chapter 14

# TIDES

What is a tide?

What causes it?

What is the difference between a solar and lunar tide?

How many are there per day?

When are the highest tides? What are they called?

When are the lowest tides? What are they called?

What natural phenomena affect the tides?

# Currents

What is a current?

What causes surface currents?

What factors affect subsurface currents?

Why did God create currents?

What direction do surface currents in the Northern Hemisphere rotate?

What direction do surface currents in the Southern Hemisphere rotate?

What two wind patterns are the most responsible for surface currents on the Earth?

How far off from the wind blowing does a surface current go, as a result of the Ekman Spiral?

How far off from the wind blowing does a lower subsurface current go, as a result of the Ekman Spiral?

What is a thermohaline current?

What is a turbidity current?

Sketch a diagram describing both upwelling and downwelling currents.