

Vocabulary: Hurricane Motion

Vocabulary

- Air pressure the force of air on a surface.
 - Air pressure is equal to the weight of a vertical column of air divided by the area of the base of the column.
 - Air pressure is measured in millibars (mb).
 - At sea level, air pressure averages 1,013 millibars.
- <u>Coriolis effect</u> the curving of moving objects, including wind, from a straight path due to Earth's rotation.
 - In the Northern Hemisphere, the Coriolis effect causes moving objects to curve to the right. In the Southern Hemisphere, the Coriolis effect causes moving objects to curve to the left.
 - In addition to causing winds to blow in a curved path, the Coriolis effect causes ocean currents to flow in a curved path.
- <u>Eye</u> the core of warm, relatively calm air with low pressure and light winds at the center of a *hurricane*.
 - The most violent storms in a hurricane generally surround the eye in an area known as the eye wall.
- Hurricane a large, rotating tropical storm with wind speeds of at least 74 mph.
 - o In the western Pacific Ocean, hurricanes are called *typhoons*, and in the Indian Ocean and around Australia, hurricanes are called *tropical cyclones*.
 - Hurricanes are categorized based on their wind speeds:
 - Category 1: 74-95 mph (119-153 km/hr)
 - Category 2: 96-110 mph (154-177 km/hr)
 - Category 3: 111-130 mph (178-209 km/hr)
 - Category 4: 131-155 mph (210-249 km/hr)
 - Category 5: greater than 155 mph (249 km/hr)
- Knot a unit of speed equal to 1.151 miles per hour.
- Meteorologist a scientist that studies weather and Earth's atmosphere.
- Precipitation water that falls to Earth's surface.
 - Types of precipitation include rain, sleet, snow, hail, and mist.

