

# Weather and Climate Quiz Study Guide

Name Key

Quiz Date: \_\_\_\_\_

## I can:

- Explain how the temperature of the oceans affects the different climates on Earth because water in the oceans holds a large amount of heat.
- Compare and contrast the difference and relationship between climate and weather.

## Vocabulary: ★

weather	The daily outdoor conditions, including rainfall, temperature, winds pressure and cloud cover.
climate	The long term weather for a region, averaged over a period of at least 30 years, generally determined by rainfall and temperatures.
latitude	Measurement showing distances north and south of the equator.
ocean current	Moving body of water within the ocean, driven by wind, temperature changes and salt content.
Gulf Stream	An ocean current bringing warm water from the tropical regions northward along the east coast of North America and the west coast of Europe.
hydrologist	A scientist who studies water.
climatologist	A scientist who studies climates.

1. How do air temperatures generally vary with latitude?

increase at lower lat. (equator)

decrease at higher lat. (poles)

2. How do mean ocean surface temperatures vary with latitude?

" " "

3. How do ocean currents affect the climate of land masses?

currents carry warm or cold water to land masses, affecting the air temperatures.

4. How did plastic floating duckies dumped into the ocean outside of Taiwan (East Asia) wash ashore in Maine, U.S.A.?

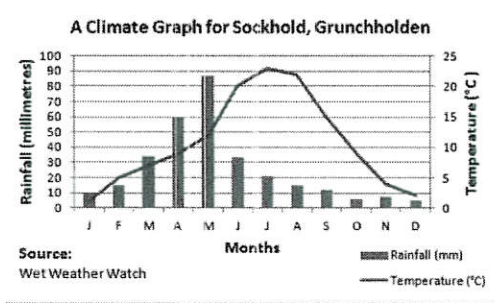
Followed the currents

5. Write down the appropriate data from the weather map. Include the appropriate units.

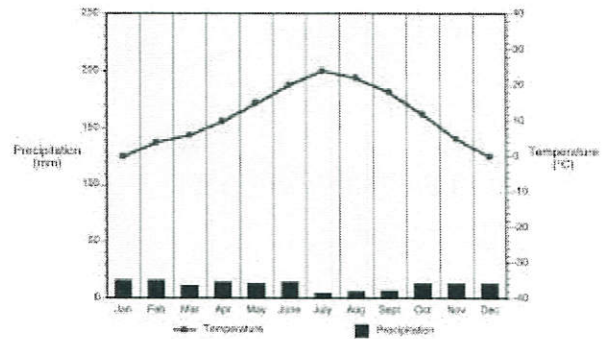
- a. Temperature: 3 °F
- b. Pressure: 29.99 in.
- c. Cloudcover: ovc 5000ft.
- d. Windspeed: 2 mph
- e. Wind Direction: SE

6. What kind of climate type does Michigan have? Severe

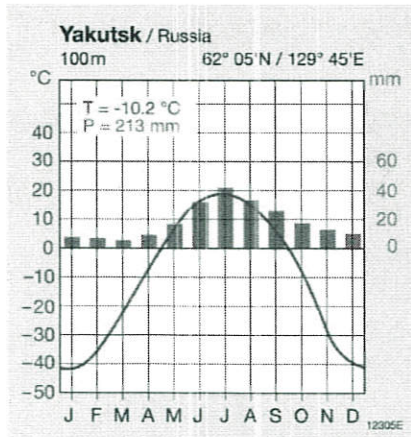
7. Match the climate graph to the climate type:  
Polar, Severe, Dry, Highland, Mild, Dry, Tropical



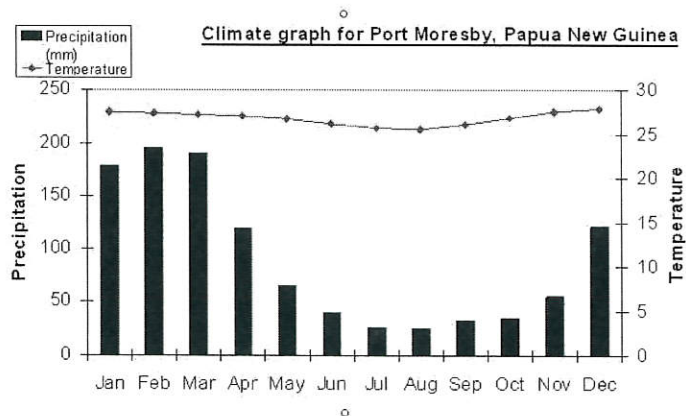
Severe



dry



polar



tropical

8. Explain how the climate in Michigan can be vastly different from the climate in France, even though they are at the same latitude (about 45° N).

Gulf Stream carrying warm water along the coast of France.