

RQ Global Wind Systems

Name: _____

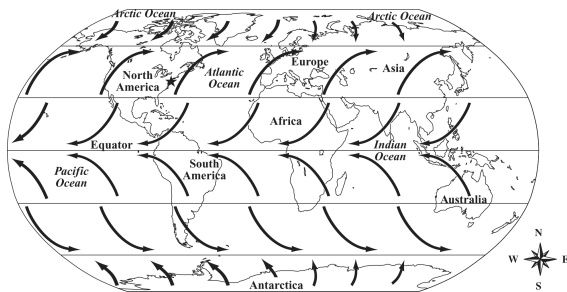
Date: _____

1. The map below shows the continental United States and four arrows representing wind directions.



Which arrow *best* represents the direction of the jet stream that influences weather across the continental United States?

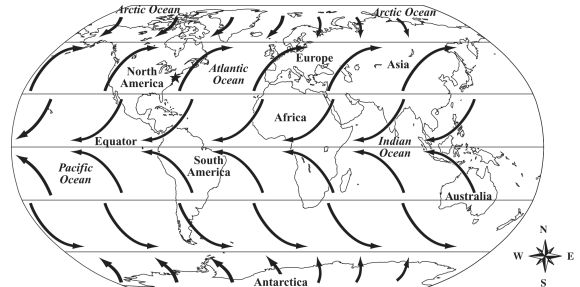
- A. arrow 1 B. arrow 2
C. arrow 3 D. arrow 4
2. The map below shows global wind patterns. The east coast of the United States is marked with a star.



30° S latitude is marked on the map by a line that runs directly under the word Australia. Based on this information, what type of environment would you expect to find at that latitude in Australia?

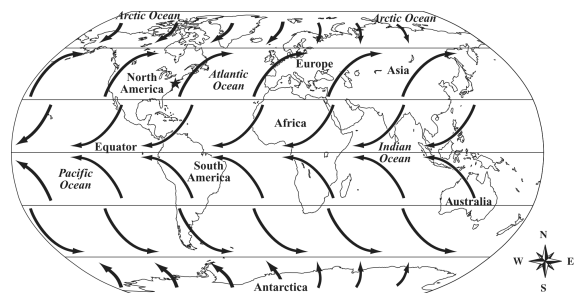
- A. Tropical Rainforest B. Temperate Forest
C. Desert D. Frozen Tundra

3. The map below shows global wind patterns. The east coast of the United States is marked with a star.



What is the name given to the winds that blow over Antarctica?

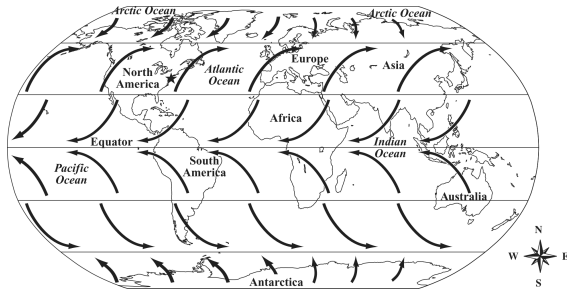
- A. Polar Easterlies
B. Prevailing Westerlies
C. Trade Winds
D. Jet Stream
4. The map below shows global wind patterns. The east coast of the United States is marked with a star.



What is the name given to the winds that blow over the southern portion of Africa?

- A. Polar Easterlies
B. Prevailing Westerlies
C. Trade Winds
D. Jet Stream

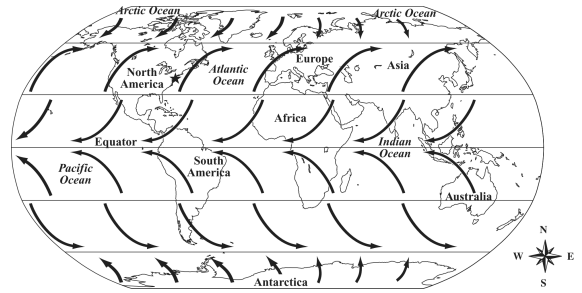
5. The map below shows global wind patterns. The east coast of the United States is marked with a star.



0° latitude is marked on the map by a line that runs directly above the words South America. Based on this information, what type of environment would you expect to find at that latitude in South America?

- A. Tropical Rainforest B. Temperate Forest
 C. Desert D. Frozen Tundra
6. Which of the following situations can lead to a Nor'Easter?
- A. When the Jet Stream dips down over the Pacific Ocean
 B. When the Jet Stream dips down over the Atlantic Ocean
 C. When the Polar Easterlies blow southward
 D. When the prevailing westerlies blow northward

7. The map below shows global wind patterns. The east coast of the United States is marked with a star.

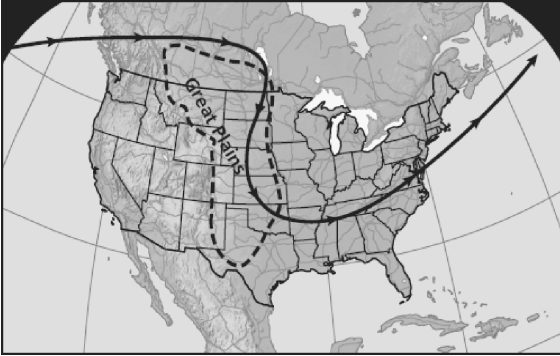




What is the name given to the winds that blow over North America?

- A. Polar Easterlies
 B. Prevailing Westerlies
 C. Trade Winds
 D. Jet Stream
8. Which *best* explains how the Coriolis effect influences weather conditions?
- A. It causes winds to rotate, forming tornadoes on Earth.
 B. It causes winds to move to the right in the southern hemisphere.
 C. It causes winds to turn to the right in the northern hemisphere.
 D. It causes winds to follow a straight-line path around Earth.

9. The following satellite map shows the path of a jet stream above North America.

Satellite Map of Jet Stream



Key	
	= jet stream
	= Great Plains area

Based only upon the data of this jet stream, which kind of weather is expected in the Great Plains area?

- A. Warm B. Cold C. Wet D. Dry

10. Which *best* describes a characteristic of the jet stream?

- A. It forms a boundary between a cold air mass and a warm air mass.
- B. It creates the high winds around the eye of a hurricane.
- C. It forces the hot air along the equator to rise to areas in North America.
- D. It causes high pressure air masses to rotate clockwise.