

# Earth & Space

- The global distribution of precipitation is strongly influenced by the global pattern of air pressure and wind, latitude, and distribution of land and water.

### Key Terms

air pressure	geostrophic wind	pressure gradient
aneroid barometer	high	pressure tendency
anticyclone	isobar	prevailing wind
barograph	jet stream	Santa Ana
barometric tendency	La Niña	sea breeze
chinook	land breeze	Southern Oscillation
convergence	low	subpolar low
Coriolis effect	mercury barometer	subtropical high
cup anemometer	monsoon	trade winds
cyclone	mountain breeze	valley breeze
divergence	polar easterlies	westerlies
El Niño	polar front	wind
equatorial low	polar high	wind vane

### Vocabulary Review

Choosing from the list of key terms, furnish the most appropriate response for the following statements.

1. The stormy belt separating the westerlies from the polar easterlies is known as the \_\_\_\_\_.
2. A(n) \_\_\_\_\_ is a line on a weather map that connects places of equal air pressure.
3. A(n) \_\_\_\_\_ is a seasonal reversal of wind direction associated with large continents, especially Asia.
4. The deflective force of Earth's rotation on all free-moving objects is called the \_\_\_\_\_.
5. Air that flows horizontally with respect to Earth's surface is referred to as \_\_\_\_\_.
6. \_\_\_\_\_, a useful aid in short-range weather prediction, refers to the nature of the change in atmospheric pressure over the past several hours.
7. The \_\_\_\_\_ is an instrument used for measuring air pressure that consists of evacuated metal chambers that change shape as pressure changes.
8. When the wind consistently blows more often from one direction than from any other, it is termed a(n) \_\_\_\_\_.
9. The instrument most commonly used to determine wind direction is the \_\_\_\_\_.
10. A center of low atmospheric pressure is called a(n) \_\_\_\_\_.
11. \_\_\_\_\_ is the condition that exists when the distribution of winds within a given area results in a net horizontal inflow of air into the area.