









Monsoon: Another Sea/Land-Related Circulation of the Atmosphere



□ Monsoon is a climate feature that is characterized by the *seasonal reversal in surface winds*.

□ The very different heat capacity of land and ocean surface is the key mechanism that produces monsoons.

□ During summer seasons, land surface heats up faster than the ocean. Low pressure center is established over land while high pressure center is established over oceans. Winds blow from ocean to land and bring large amounts of water vapor to produce heavy precipitation over land: A rainy season.

During winters, land surface cools down fast and sets up a high pressure center. Winds blow from land to ocean: a dry season.



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