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13.6 Prevailing Winds

Winds are very important in determining weather. Winds that affect large areas are called **prevailing winds** and they affect weather around the world.

Coriolis Effect

The apparent change of direction of a moving object in a rotating system. Objects or particles tend to move **right** in the northern hemisphere and **left** in the southern hemisphere.

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It is noticed least at the equator and most at the poles.

Convection

Air is warmed the most at the equator where it rises and leaves low pressure near the surface.

Cooler air above and below the equator moves in to replace the low pressure air. Several other pressure differences cause the other convection as air moves from high to low pressure.

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The prevailing winds are caused by a combination of convection and the Coriolis Effect.

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