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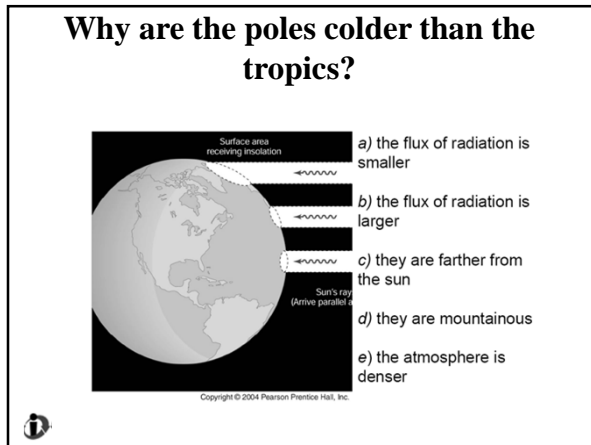
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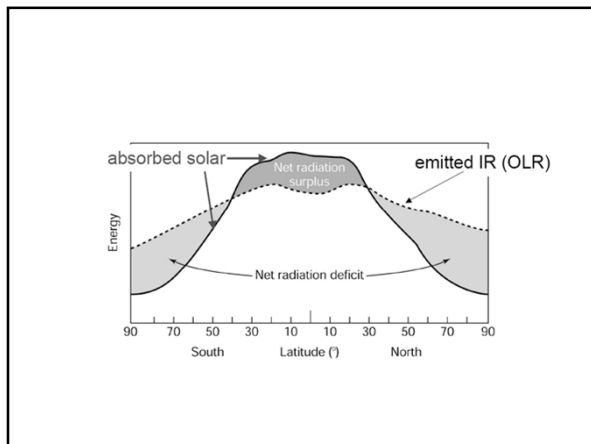
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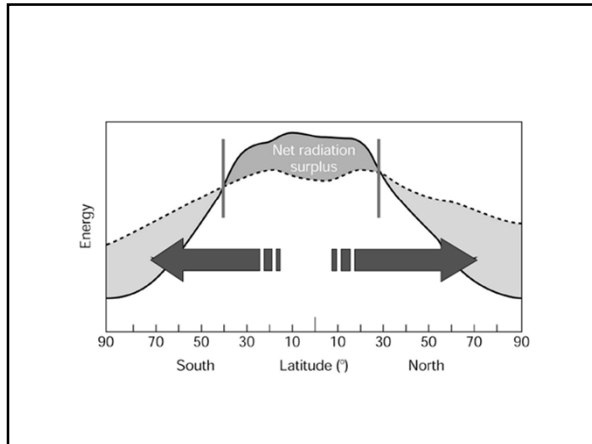
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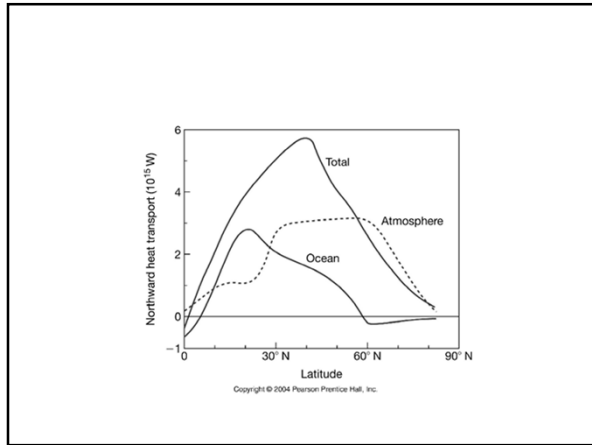
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**Uneven heating drives vertical & horizontal movements of air.**

The diagram shows a cross-section of Earth with latitude lines at 60°, 30°, and the Equator. The Sun is at the bottom, and solar radiation is shown as parallel lines hitting the Earth. The 'Subsolar point' is marked at the equator. An angle  $\theta$  is shown between the vertical and the solar radiation lines. An arrow points from the diagram to a graph. The graph has 'Energy Flow per Unit Area ( $W/m^2$ )' on the y-axis (0 to 1500) and 'Angle from Vertical ( $\theta$ )' on the x-axis (0° to 90°). The text 'Draw The Graph' is written next to the graph.

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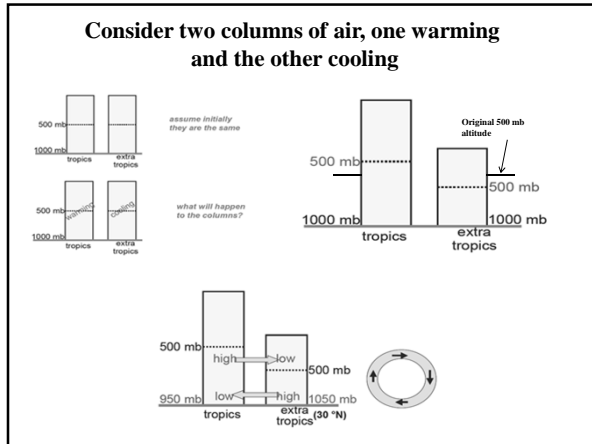
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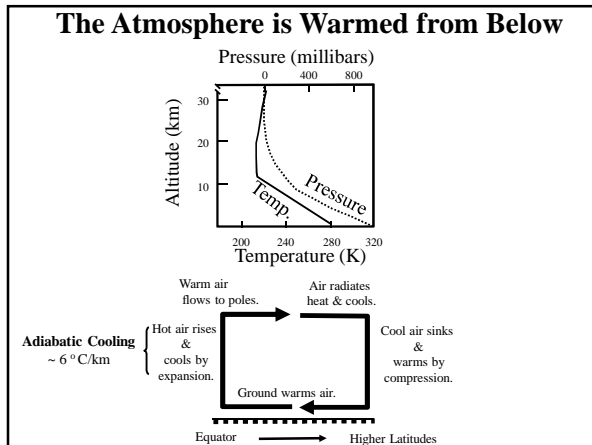
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**Coriolis Effect**

Apparent curvature in the direction of travel of a body moving over a spinning object.

For winds and ocean currents, it's caused by latitudinal differences in the rotational speed of Earth.

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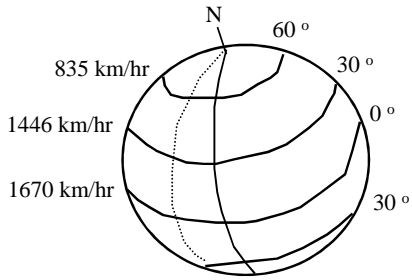
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**Latitudinal differences in rotational speed**



1 km = 0.6214 miles (1038 mph @ Equator)

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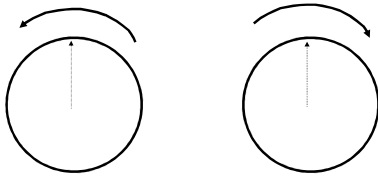
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**Understanding the Coriolis Effect**

What would happen if you try drawing a straight line on a spinning record?



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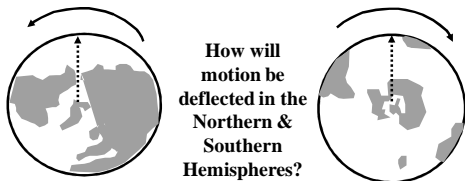
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**Earth rotates out from under objects in motion over its surface creating a curved path for observers on the surface.**



Northern Hemisphere

Southern Hemisphere

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## Understanding the Coriolis Effect via YouTube

Check out this video:

[http://www.youtube.com/watch?v=mcPs\\_OdQOYU](http://www.youtube.com/watch?v=mcPs_OdQOYU)

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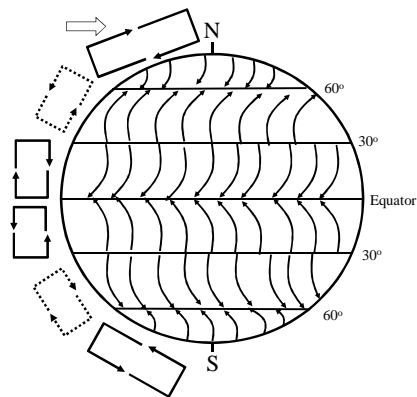
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## Pattern of General Circulation



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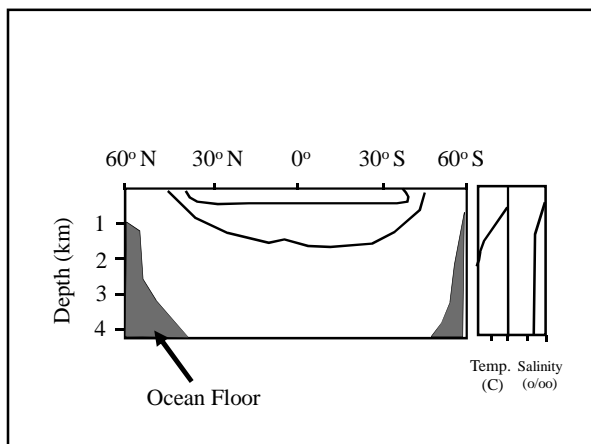
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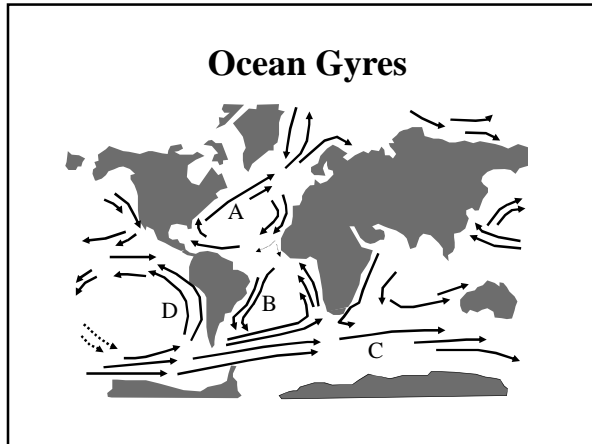
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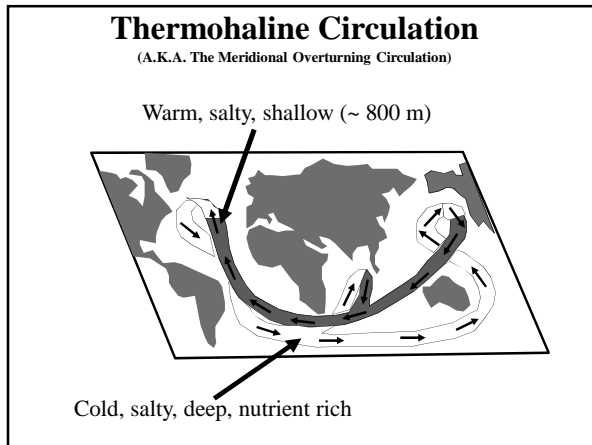
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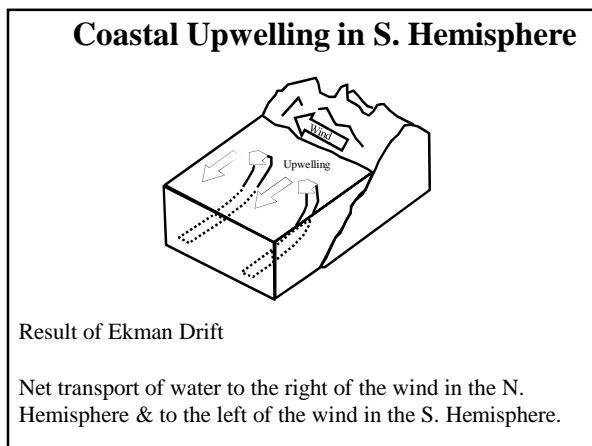
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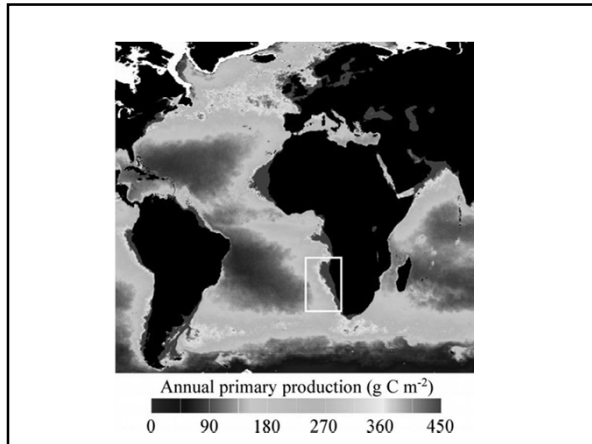
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