Clouds and More Clouds AOSC 200

Tim Canty

Class Web Site: http://www.atmos.umd.edu/~tcanty/aosc200

Topics for today:

How to make clouds pt 1.

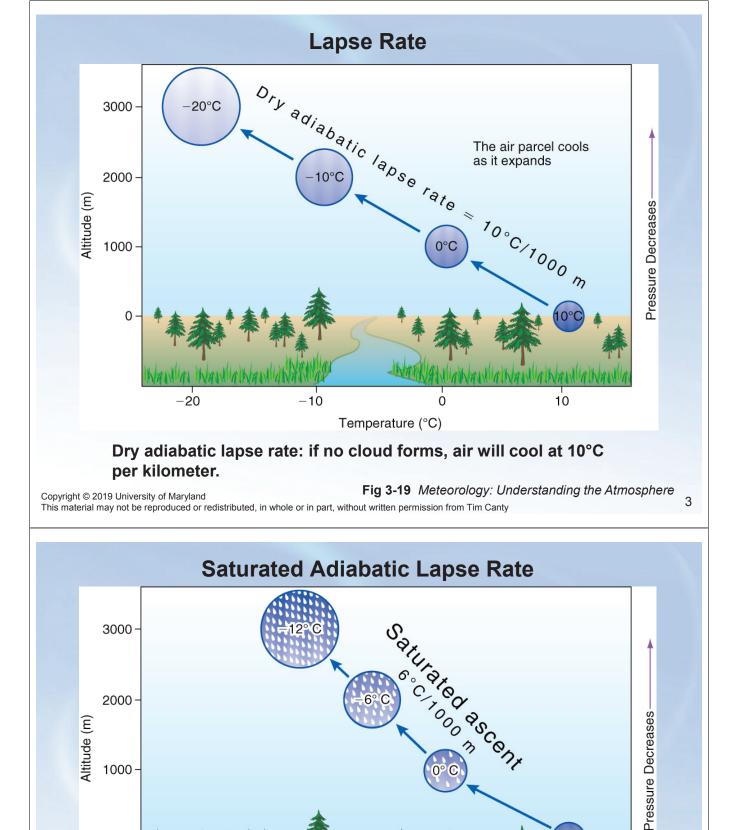
Lecture 12 Oct 3 2019

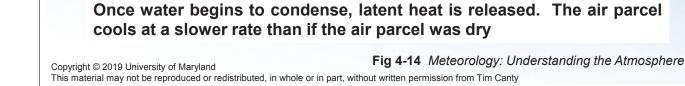
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Hot air rises!

What happens then?

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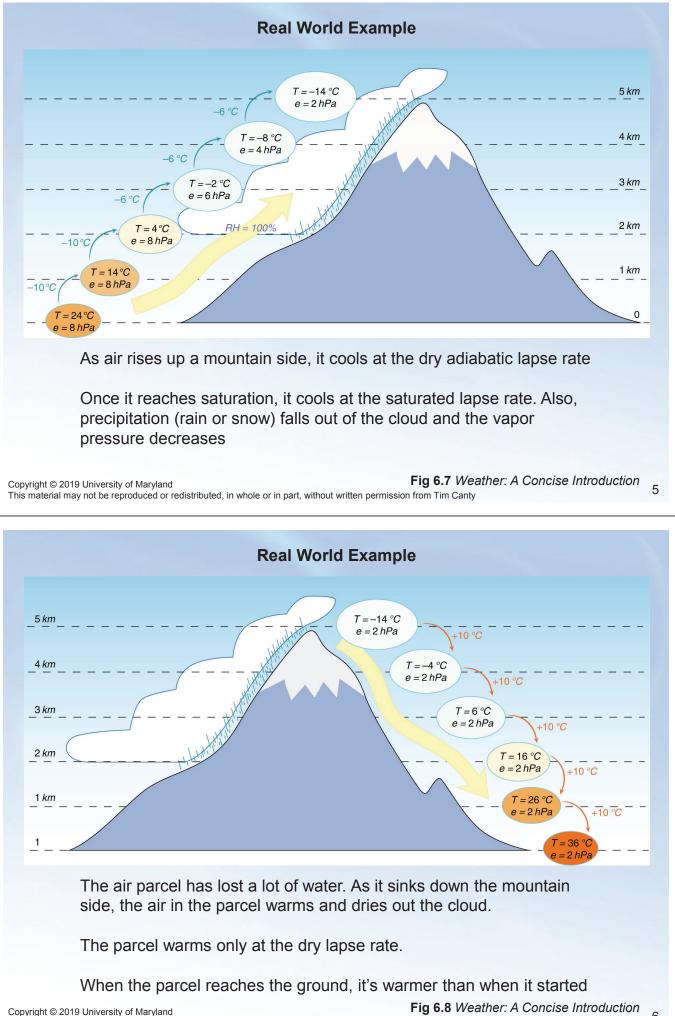
Temperature (°C)

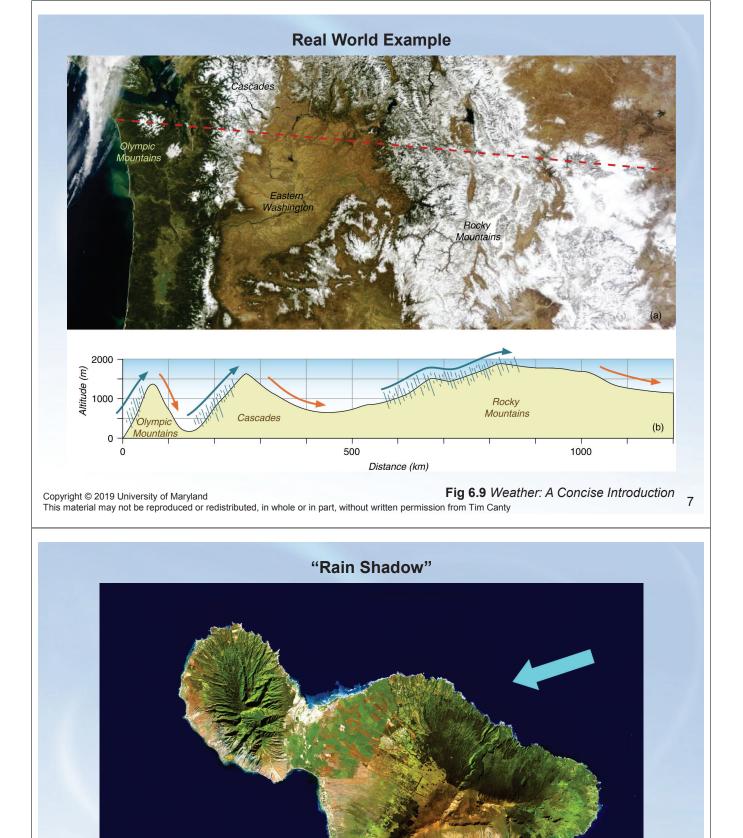
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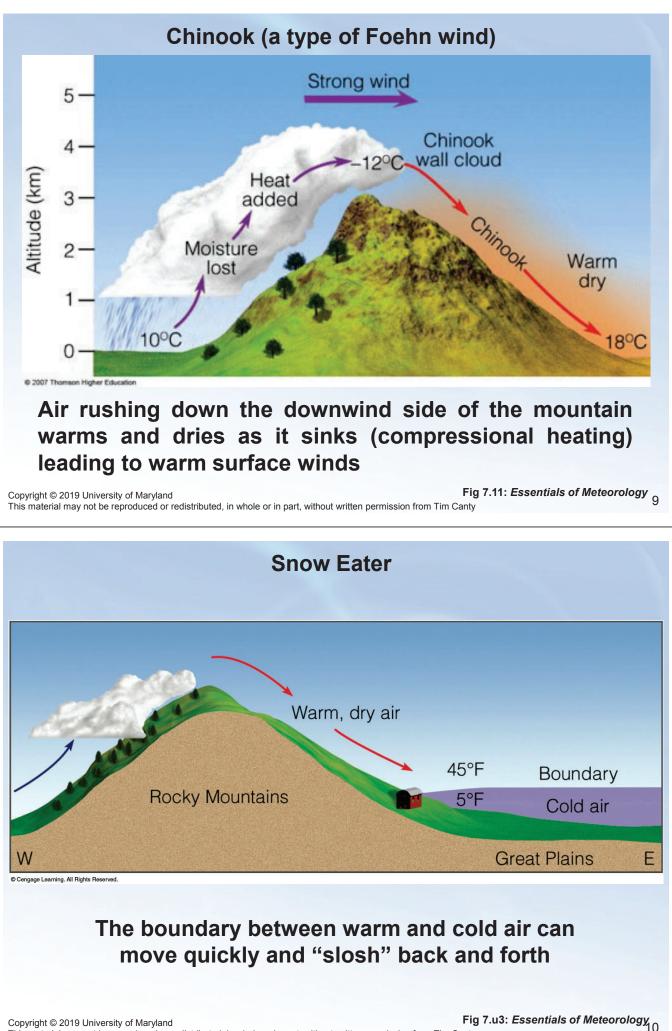
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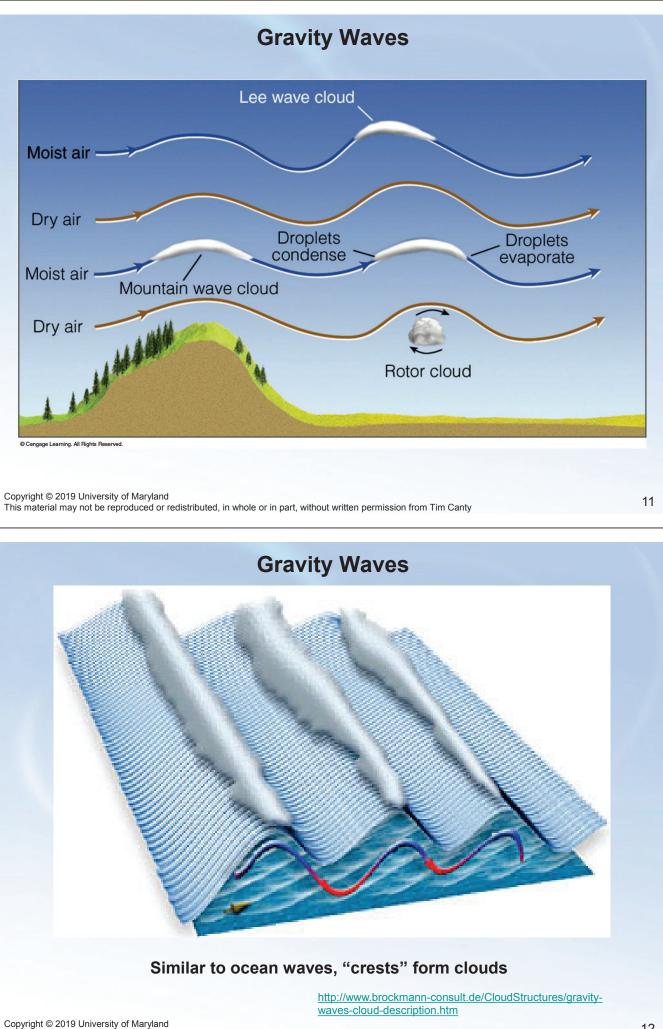


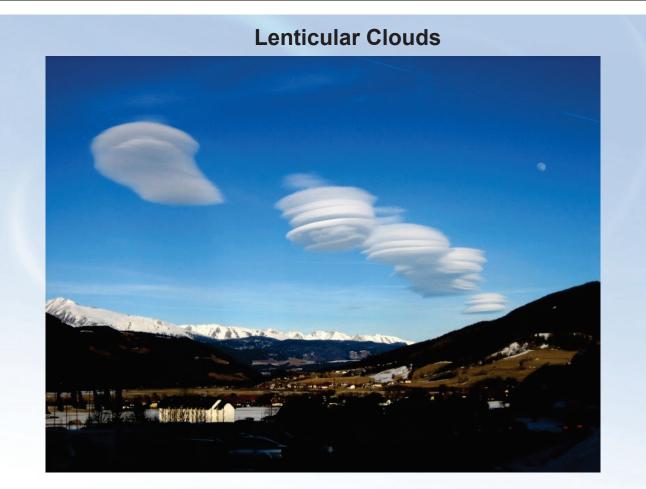


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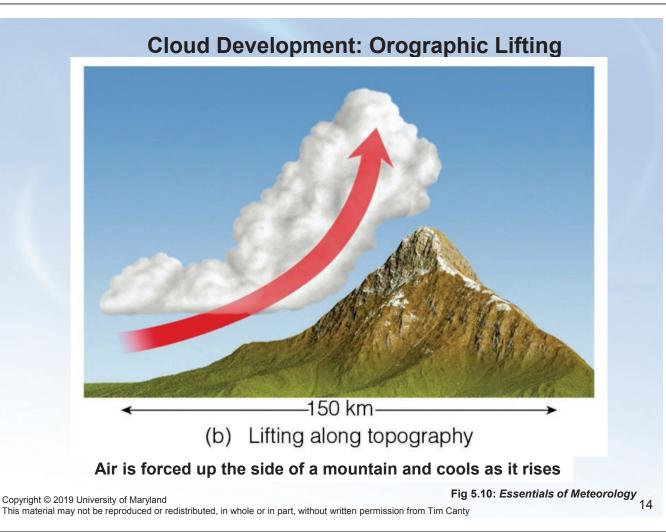


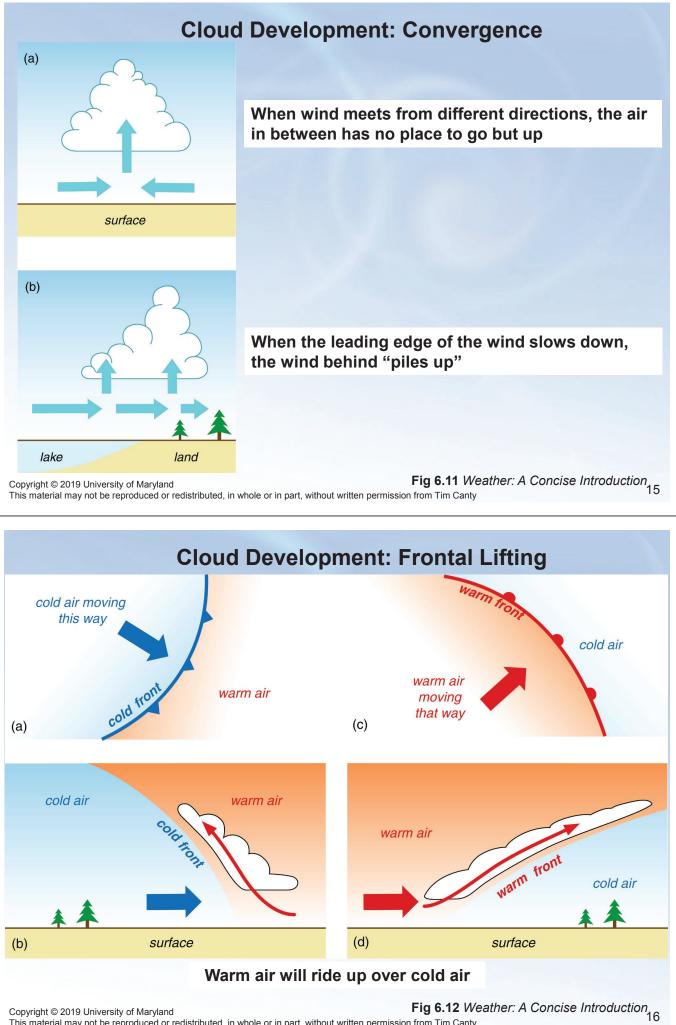


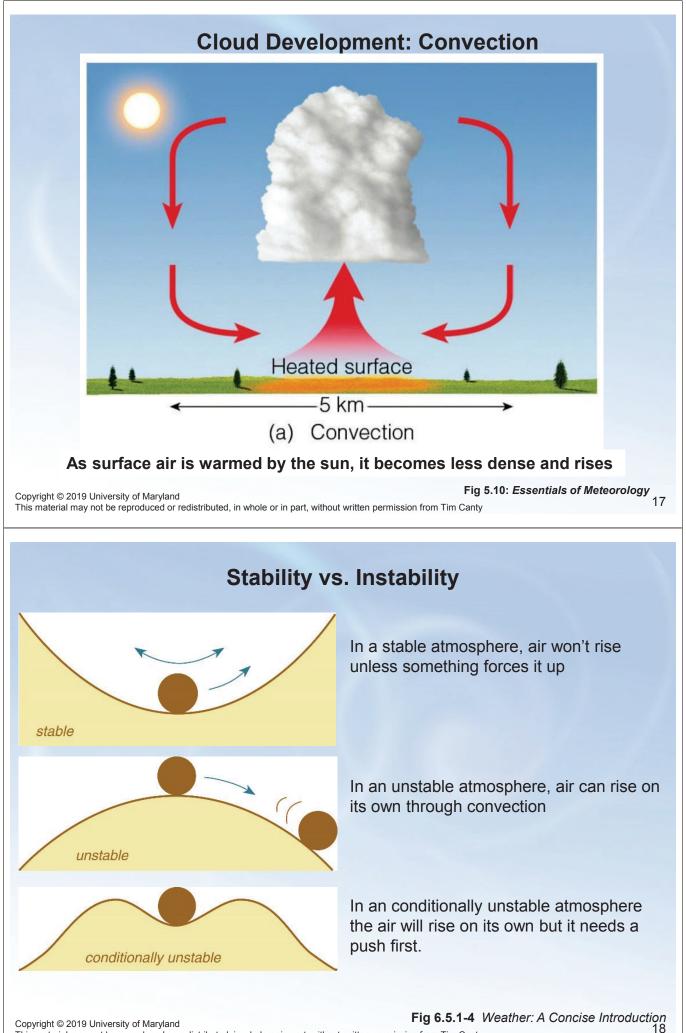


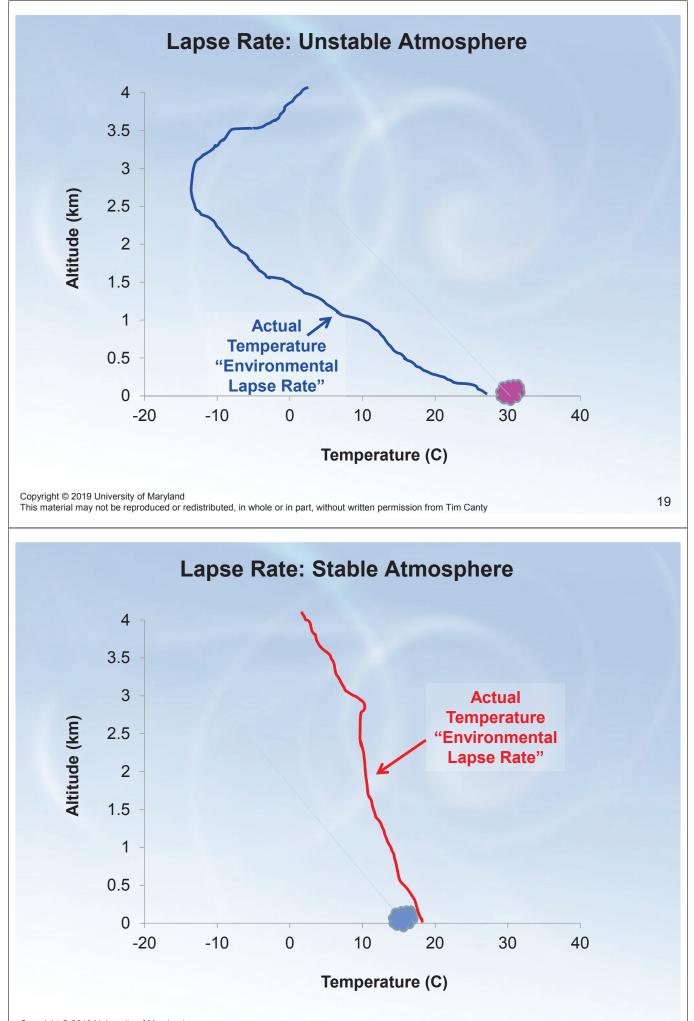
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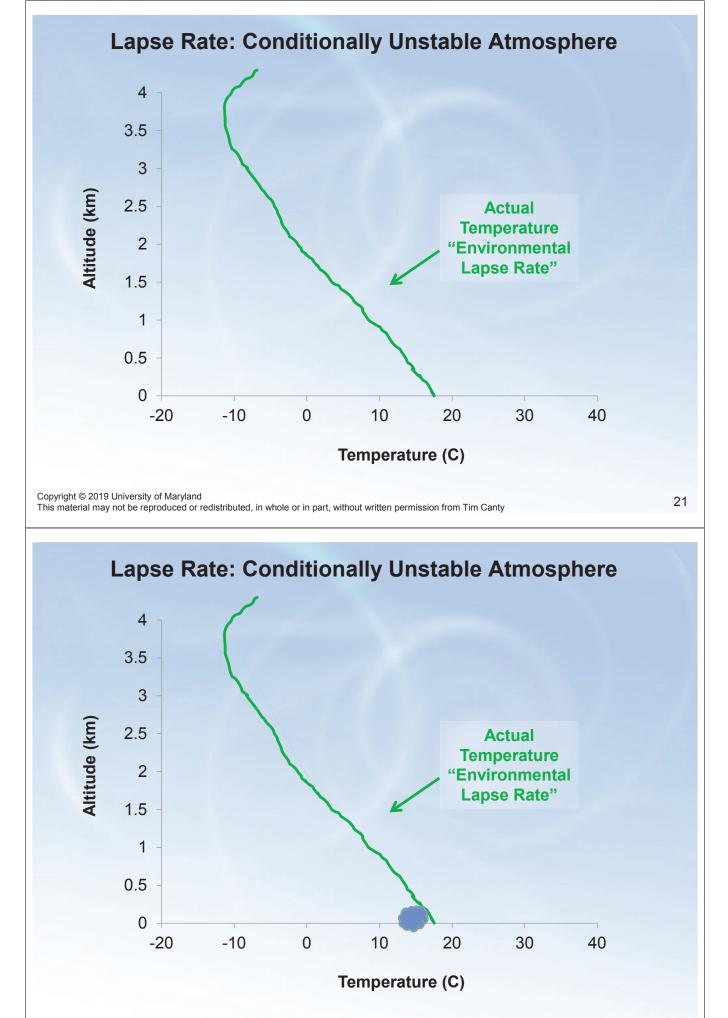
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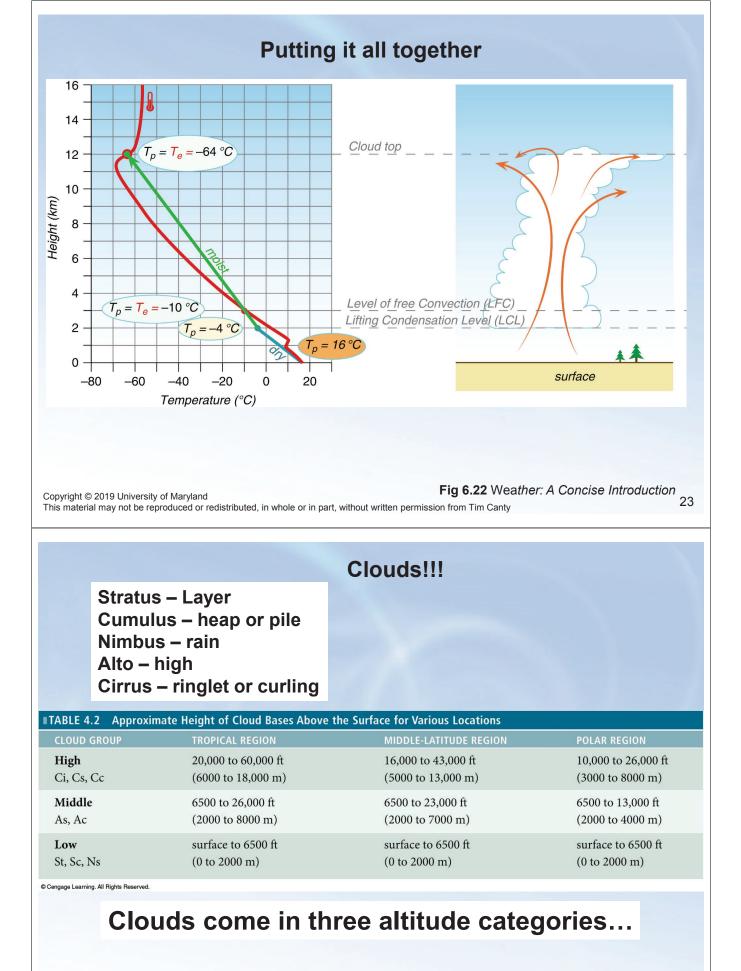






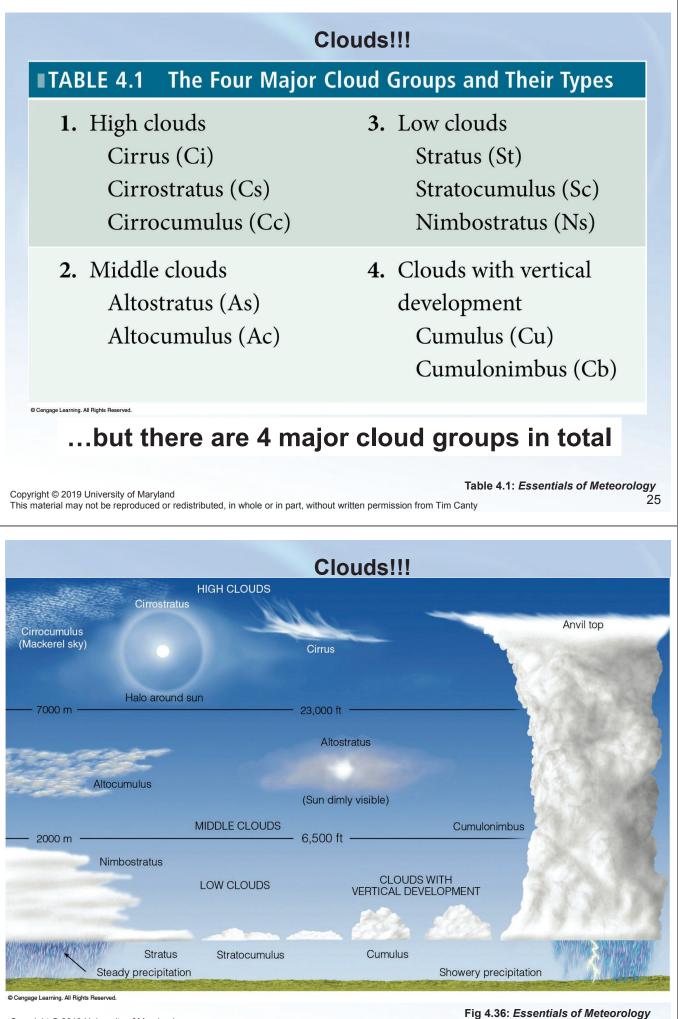






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Table 4.2: Essentials of Meteorology 24



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Clouds!!!

TERM	LATIN ROOT AND MEANING	DESCRIPTION
Lenticularis	(<i>lens, lenticula,</i> lentil)	Clouds having the shape of a lens; often elongated and usually with well-defined outlines. This term applies mainly to cirrocumulus, altocumulus, and stratocumulu
Fractus	(<i>frangere</i> , to break or fracture)	Clouds that have a ragged or torn appearance; applies only to stratus and cumulus
Humilis	(humilis, of small size)	Cumulus clouds with generally flattened bases and slight vertical growth
Congestus	(<i>congerere</i> , to bring together; to pile up)	Cumulus clouds of great vertical extent that, from a distance, may resemble a head of cauliflower
Undulatus	(<i>unda,</i> wave; having waves)	Clouds in patches, sheets, or layers showing undulations
Translucidus	(<i>translucere</i> , to shine through; transparent)	Clouds that cover a large part of the sky and are sufficiently translucent to reveal th position of the sun or moon
Mammatus	(<i>mamma</i> , mammary)	Baglike clouds that hang like a cow's udder on the underside of a cloud; may occur with cirrus, altocumulus, altostratus, stratocumulus, and cumulonimbus
Pileus	(pileus, cap)	A cloud in the form of a cap or hood above or attached to the upper part of a cumuliform cloud, particularly during its developing stage
Castellanus	(<i>castellum</i> , a castle)	Clouds that show vertical development and produce towerlike extensions, often in the shape of small castles
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