

Cloud Types

- History
- Three Basic Cloud Types
- Ten Fundamental Cloud Types
- Cumulonimbus Clouds
- Rare Clouds



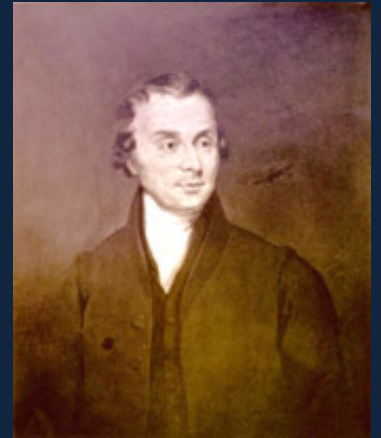
TeachWithFergy

Preview File

Please enjoy this preview of your Student Version of the lesson. I've created this PDF for ease of viewing and to decrease the file size but of course, your lesson will be in PowerPoint format.

- Some slides appear blank because they have been removed.
- Student versions have portions of the text removed which is given in the teacher version and appear as _____
- Other slides may have on them, this represents writing that has been removed.

Luke Howard



- Amateur meteorologist
 - Made medicines for a living

- _____

- Three general types
 - Cumulus
 - Stratus
 - Cirrus

SEE HOW YOUR VIDEOS ARE
EMBEDDED INTO THE LESSON. CLICK
THE IMAGE IN SLIDESHOW MODE



Three Basic Cloud Types

- _____
- Stratus – “layer” in Latin
- Cirrus – “curl of hair” in Latin



SEE HOW YOUR VIDEOS ARE
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THE IMAGE IN SLIDESHOW MODE

Cumulus



- Familiar cloud puffs
- Look like cotton balls
- When they get bigger and thicker, and turn gray instead of white, rain is coming
- _____

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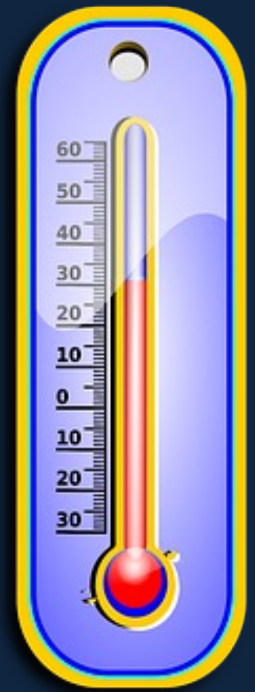
Stratus



- _____
- Fog when very low
- Drizzle or light snow possible
- Altitude: <2000 m (6500 ft)

Stratus Formation

- Warm, wet air flows into an area that has been cold
- _____
- Water vapor condenses into droplets, which form a cloud
- Cloud thickness depends on
 - How much water is in the air
 - How big the temperature difference is between warm and cold air



Cirrus



-
- Horizontal and vertical fall streaks from snow and ice falling out of clouds and evaporating
- Form in good weather
- High altitude: >6000 m (20000ft)

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Ten Fundamental Cloud Types

- Stratus
- Cumulus
- Stratocumulus
- Cumulonimbus
- Nimbostratus
- Altostratus
- Alto cumulus
- Cirrus
- Cirrostratus
- Cirrocumulus

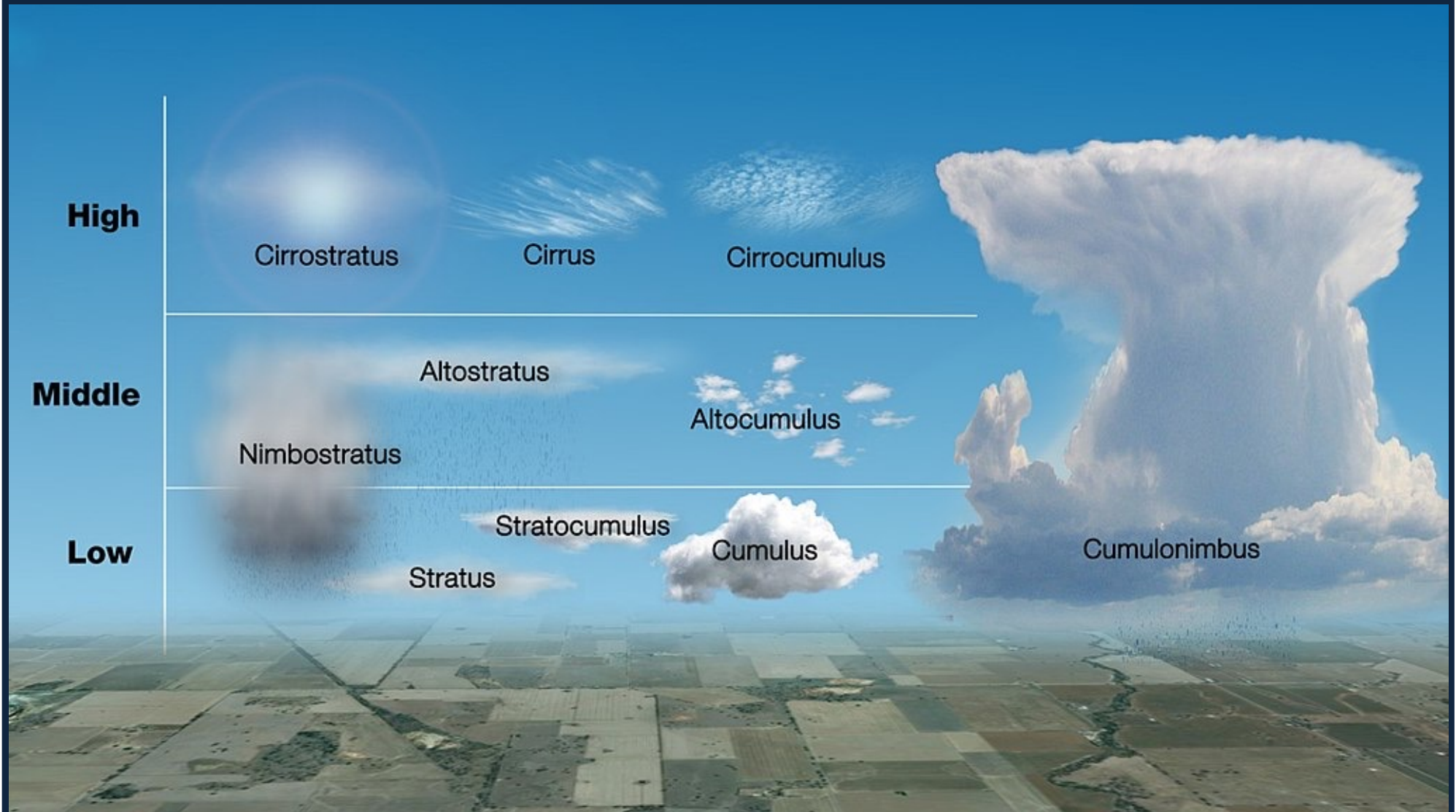
Low Atmosphere:
<6,500 ft (2,000 m)

Middle Atmosphere:
6,500 to 23,000 ft (2,000 to 7,000 m)

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Ten Fundamental Cloud Types



Ten Fundamental Cloud Types

- _____
- Stratocumulus = stratus + cumulus
- Cirrocumulus = cirrus + cumulus
- Cirrostratus = cirrus + stratus
- Cumulonimbus, altocumulus = cumulus
- Nimbostratus, altostratus = stratus



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Cumulonimbus – Storm Cloud



- _____
- Dense, fluffy tower/mountain, stretches from low atmosphere to high atmosphere
 - Top smooth or wispy, flattened into anvil shape
 - Virga

Cumulonimbus



Anvil shape



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Rare Clouds

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3 Strange-Looking Kinds
of Clouds



7 Rare Cloud Types