

LAYERS OF THE ATMOSPHERE

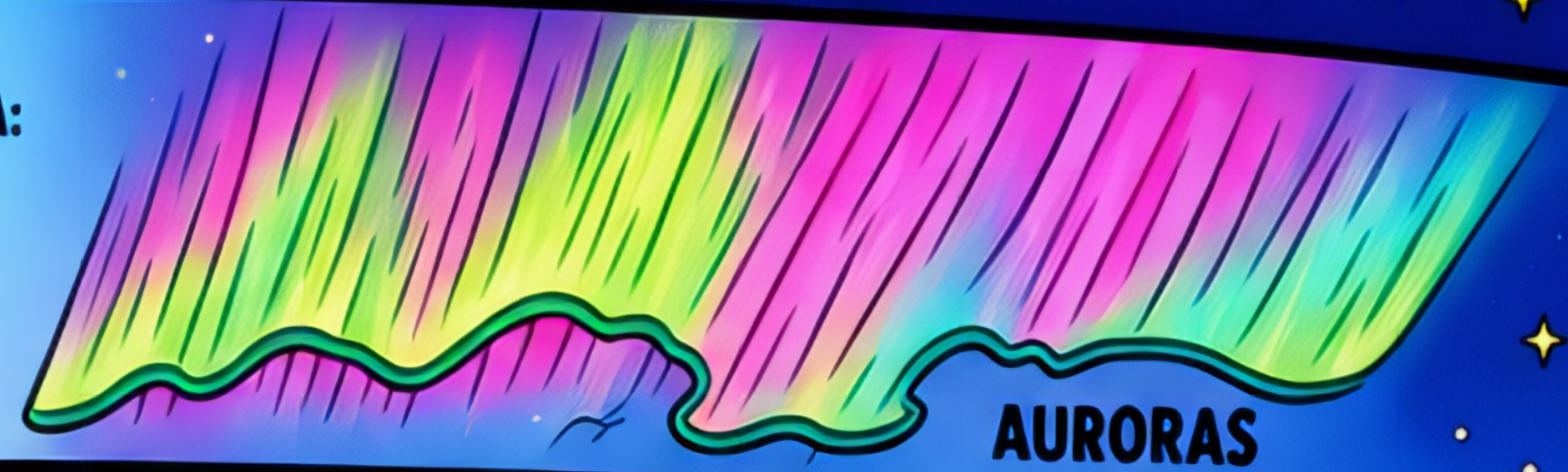
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EXOSPHERE

600 km and above
The outermost layer where gases thin out and merge into space.



WEATHER PHENOMENA:
Satellites orbit Earth.
Some atoms escape to outer space.



AURORAS

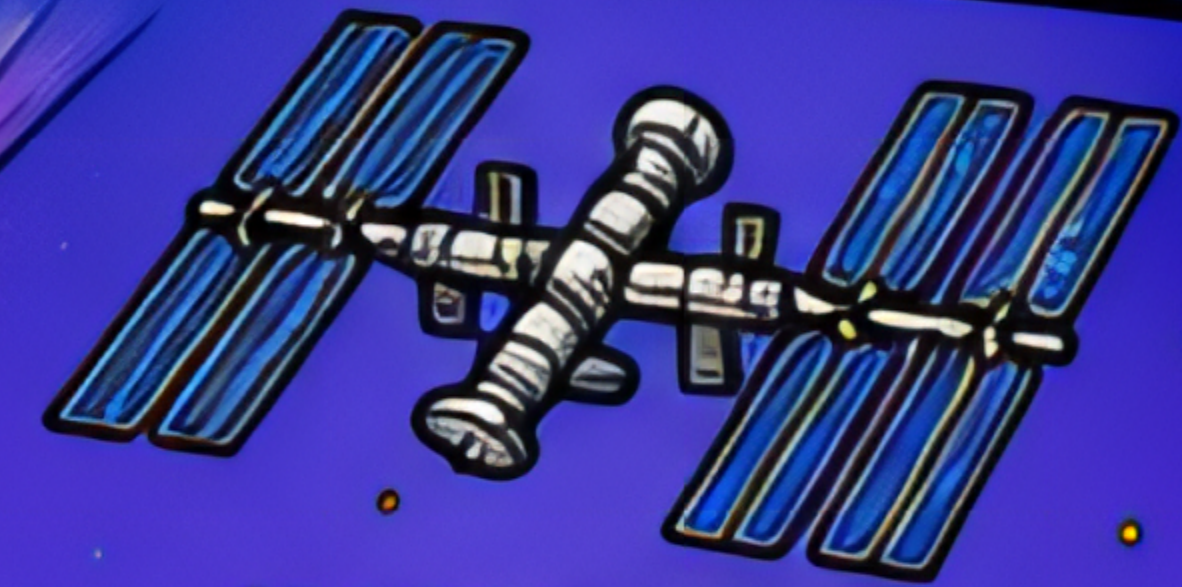
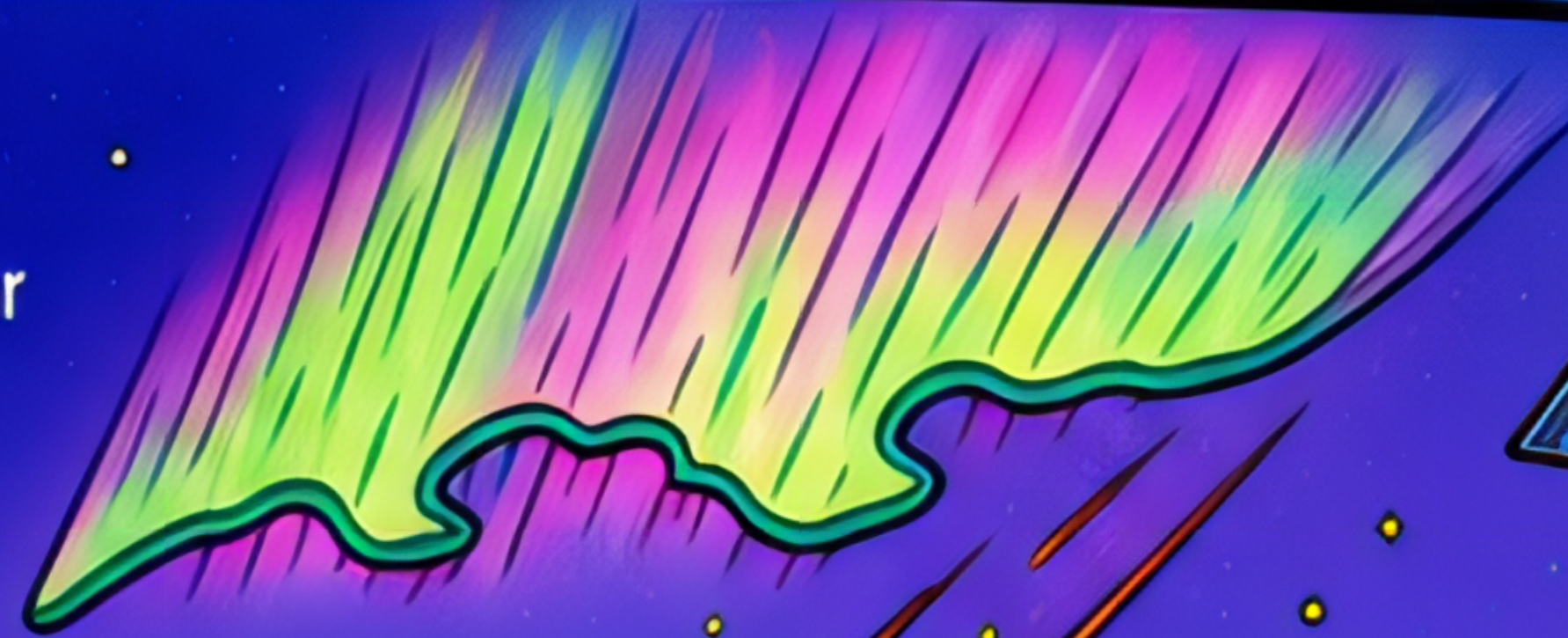
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THERMOSPHERE

85 km – 600 km
Temperatures increase with altitude due to absorption of solar radiation.

WEATHER PHENOMENA:

Auroras occur in this layer due to charged particles from the sun colliding with gases.



SPACE STATION

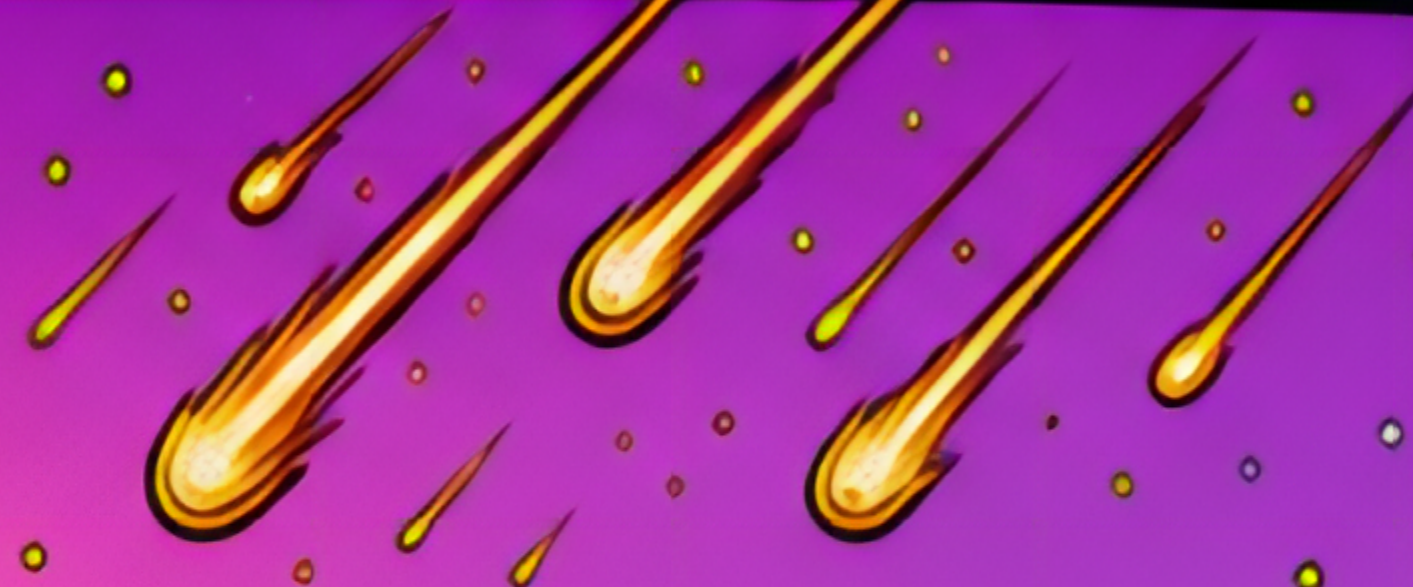
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MESOSPHERE

50 km – 85 km
The coldest layer of the atmosphere.

WEATHER PHENOMENA:

Meteors burn up in this layer, creating bright streaks of light.



METEORS

2

STRATOSPHERE

12 km – 50 km
Contains the ozone layer, which protects us from harmful UV radiation.

WEATHER PHENOMENA:

The ozone layer absorbs UV radiation from the sun.



OZONE LAYER

1

TROPOSPHERE

0 km – 12 km
The layer closest to Earth where we live and where weather happens.

WEATHER PHENOMENA:

All weather occurs here, including clouds, rain, snow, thunderstorms, and tornadoes.



CLOUDS



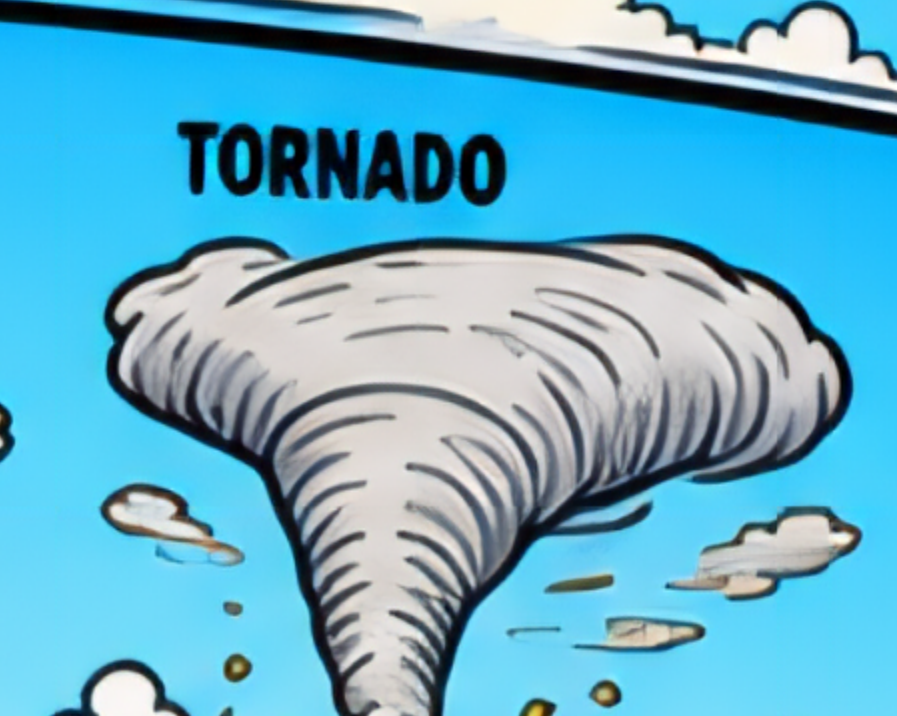
RAIN



THUNDERSTORM



SNOW



TORNADO