

## Edexcel IAL Geography

## Atmosphere and Weather Systems Glossary of Definitions



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**Air Masses** - A body of air which share similar conditions in terms of temperature, humidity and pressure.

Air Pressure - The weight of the atmosphere above a particular point, due to gravity.

**Anticyclone** - A system of high pressure, causing high temperatures and unseasonably high evaporation rates.

Atmosphere - A layer of gases surrounding the Earth.

**Blocking Anticyclone** - An anticyclone that disrupts normal weather conditions, causing extreme weather such as heatwaves.

Climate - The average annual weather patterns based on centuries of past weather conditions.

**Cold Front** - The front of a cold air mass, often travelling from the Poles.

**Condensation** - The change of state from gas to liquid, for example water vapour in the atmosphere condenses into liquid water as precipitation.

**Convectional Precipitation** - Solar radiation heats the air above the ground, causing it to rise, cool and condense forming precipitation (often as thunderstorms).

**Coriolis Effect** - A phenomenon where the rotation of the Earth causes air masses to spin - clockwise in the Southern Hemisphere, anti-clockwise in the Northern Hemisphere.

**Depression** - A system of low pressure with fronts of precipitation caused by low and high pressure air masses meeting.

**Drought** - An extended period of deficient rainfall relative to the statistical average for the region (UN).

**Enhanced Greenhouse Effect** - Changes in climate due to more solar radiation being trapped in the atmosphere by greenhouse gases.

Evaporation - The change of state from liquid to gas, for example liquid water to water vapour.

Fog - Water vapour at low altitude that reduces visibility.

**Frontal Precipitation** - Where air masses of different temperatures meet at a front, one mass will be forced over another, causing precipitation beneath the front.

Humidity - The volume of water vapour in the atmosphere.

Meteorological Drought - When long-term precipitation trends are below average.



**Occluded Front** - Where a warm front and cold front meet and combine.

**Relief Precipitation** - Precipitation caused when air masses are forced to rise over high land, determined by the relief/ morphology of the land.

**Tropical Cyclones** - Low pressure weather systems that bring extreme winds, precipitation and storm surges. Also known as Typhoons and Hurricanes.

Warm Front - The front of a warm air mass, often from the Tropics.

Weather - Day to day changes in the conditions for a particular place.

Wind - Air moving from high pressure to low pressure.

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