

PRESSURE BELTS

- ✚ **Air pressure** / atmospheric pressure is the force exerted by air on the earth's surface.
- ✚ **Pressure belts** are regions of the earth that experience almost the same atmospheric pressure.
- ✚ Cool areas have high pressure while warm areas have low pressure.
- ✚ Mountain tops and hill tops (highland areas) have high pressure while valleys, plains/ plateaus (low lands) have low pressure.

Causes of difference in pressure.

- Altitude
- Latitude
- Temperature

Effect of the difference in pressure.

- ✚ It causes the direction of wind.

Note:-

- Wind blows from areas of high pressure to areas of low pressure.
- **Isobars** are lines drawn on weather maps connecting places with the same atmospheric pressure.
- **Isotherms** are lines drawn on weather maps joining places with equal temperatures.
- **Isohyets** are lines drawn on weather maps connecting places that receive the same amount of rainfall.
- **Isonephhs** are lines drawn on weather maps connecting places with the same cloud cover.
- **Isohels** are lines drawn on weather maps connecting places that receive equal amounts of sunshine.
- **Contours** are lines drawn on maps joining places of the same altitude (height above the sea level).

CLIMATE CHANGE

- ✚ Climate change is the long-term, large scale fluctuation in the patterns of weather experienced in an area.
- ✚ It is the fluctuation of the average weather condition of an area over a long period of time.
- ✚ It is experienced through changes in precipitation, temperature and wind.
- ✚ Global warming is the major cause of climate change.

Global warming

- ✚ This is the constant rise of world temperatures.
- ✚ **Or:** This is the continuous heating of the earth due to emission of greenhouse gases to the atmosphere.

Examples of greenhouse gases.

- Carbondioxide
- Carbonmonoxide
- Nitrous oxide

Causes of global warming.

- Deforestation
- Bush burning
- Industrialisation
- Ozone layer depletion

Note

- ✓ Global warming occurs when the ozone layer is destroyed by excessive sun heat (rays).
- ✓ **Ozone layer** is a layer of gases that protect the earth from strong sun rays.
- ✓ When trees are cut and bushes burnt, it reduces on the vegetation that would have absorbed carbondioxide which destroys the ozone layer.

Effects / indicators of global warming

- ❖ Acidic rainfall
- ❖ Incidents of severe and prolonged drought.
- ❖ Melting of snow on high mountains.
- ❖ Reduction in the volume of water in water bodies.
- ❖ Excessive heat during day.

Ways of reducing global warming.

- ❖ By planting more trees.
- ❖ By using renewable sources of energy. eg hydro electricity and solar energy.
- ❖ By treating industrial fumes before emissions.
- ❖ Banning importation of old vehicles.