

Wind



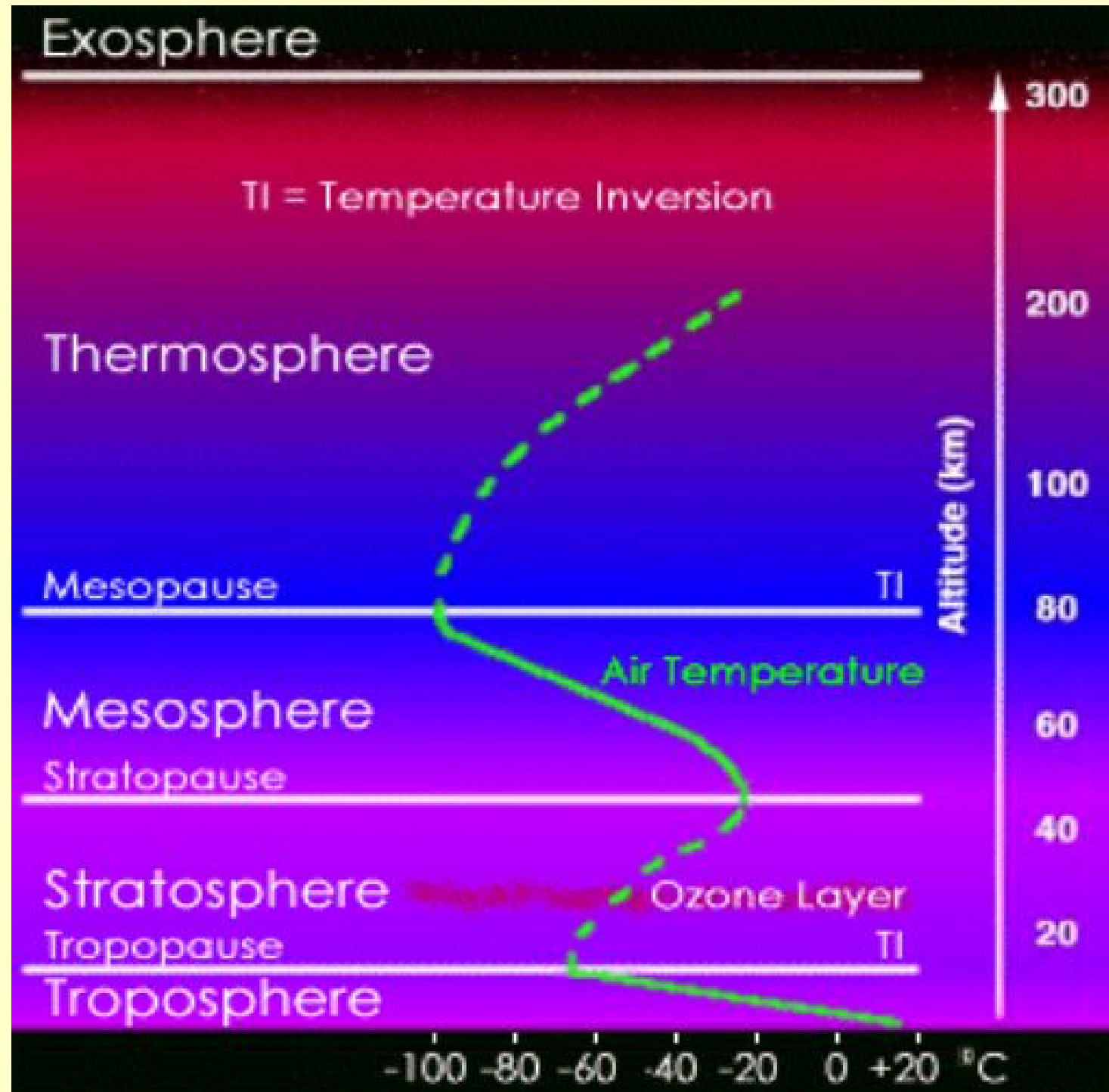
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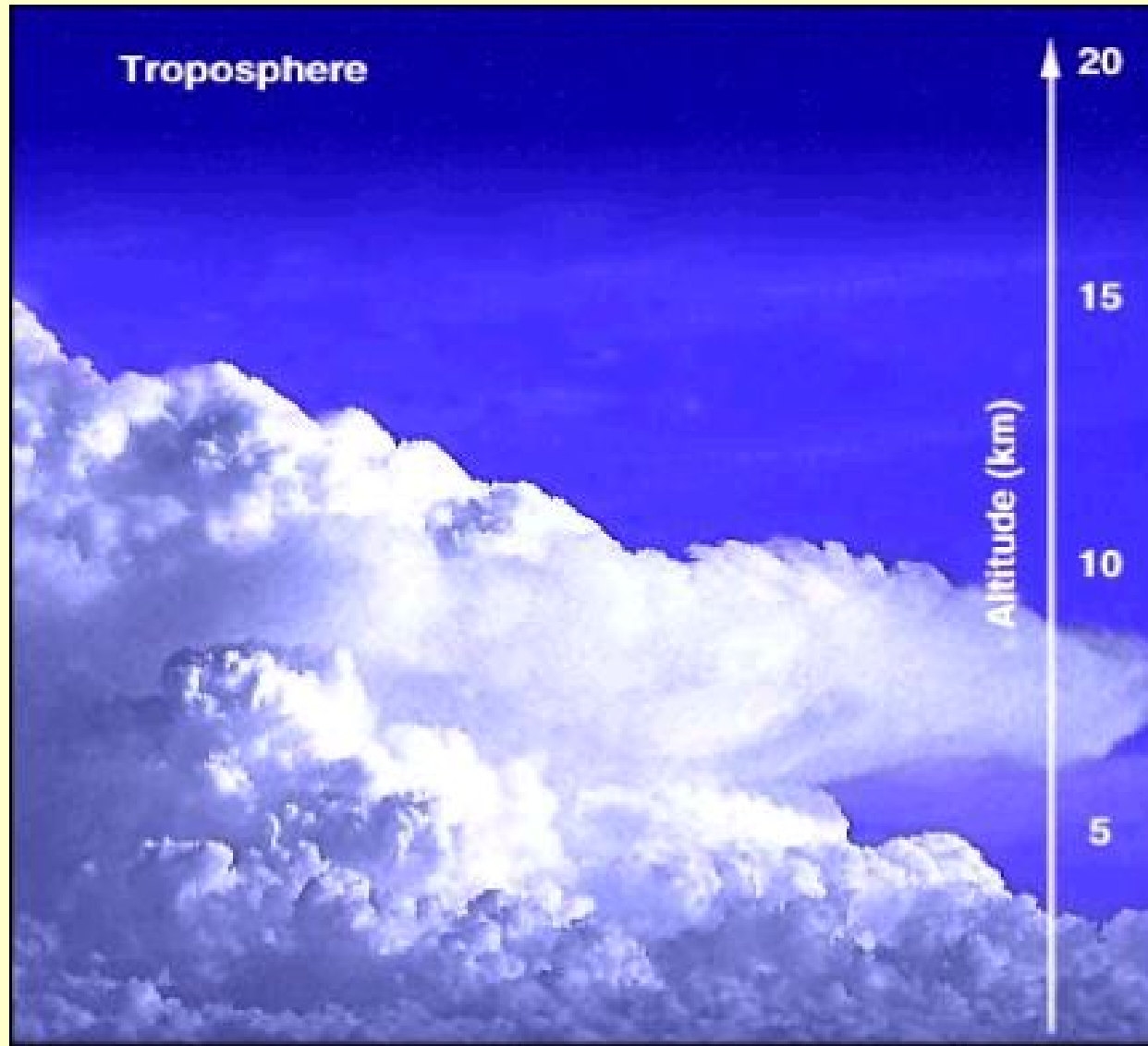
<http://atschool.eduweb.co.uk/radgeog/>

The earth's atmosphere is composed of 4 layers

- Thermosphere
- Mesosphere
- Stratosphere
- Troposphere



The earth's weather takes place in the lowest level called the **Troposphere**



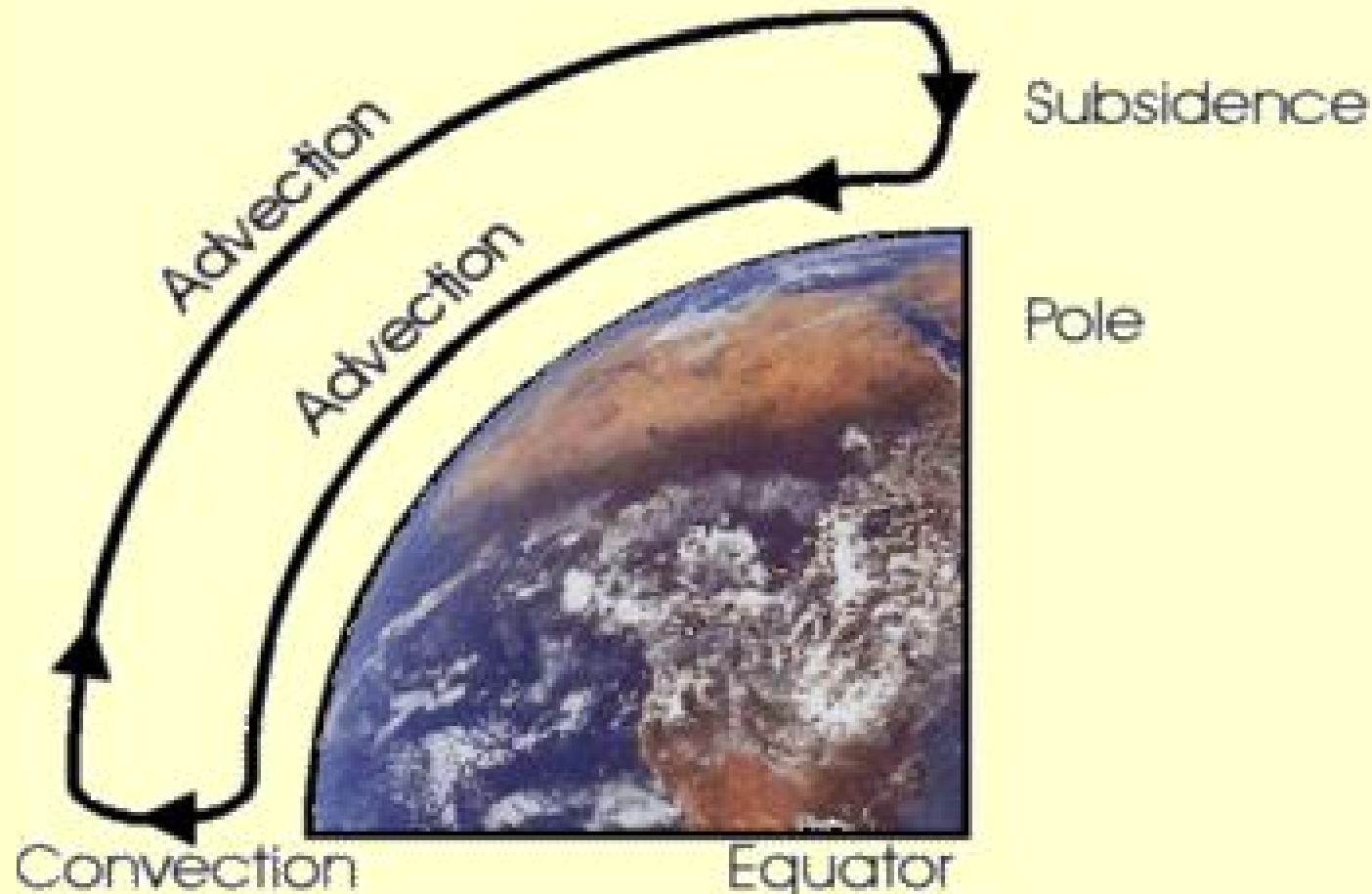
Air rises over **warm** areas and sinks over **cold** areas

Air **rises** in **warm** regions where pressure is **low** (convection)

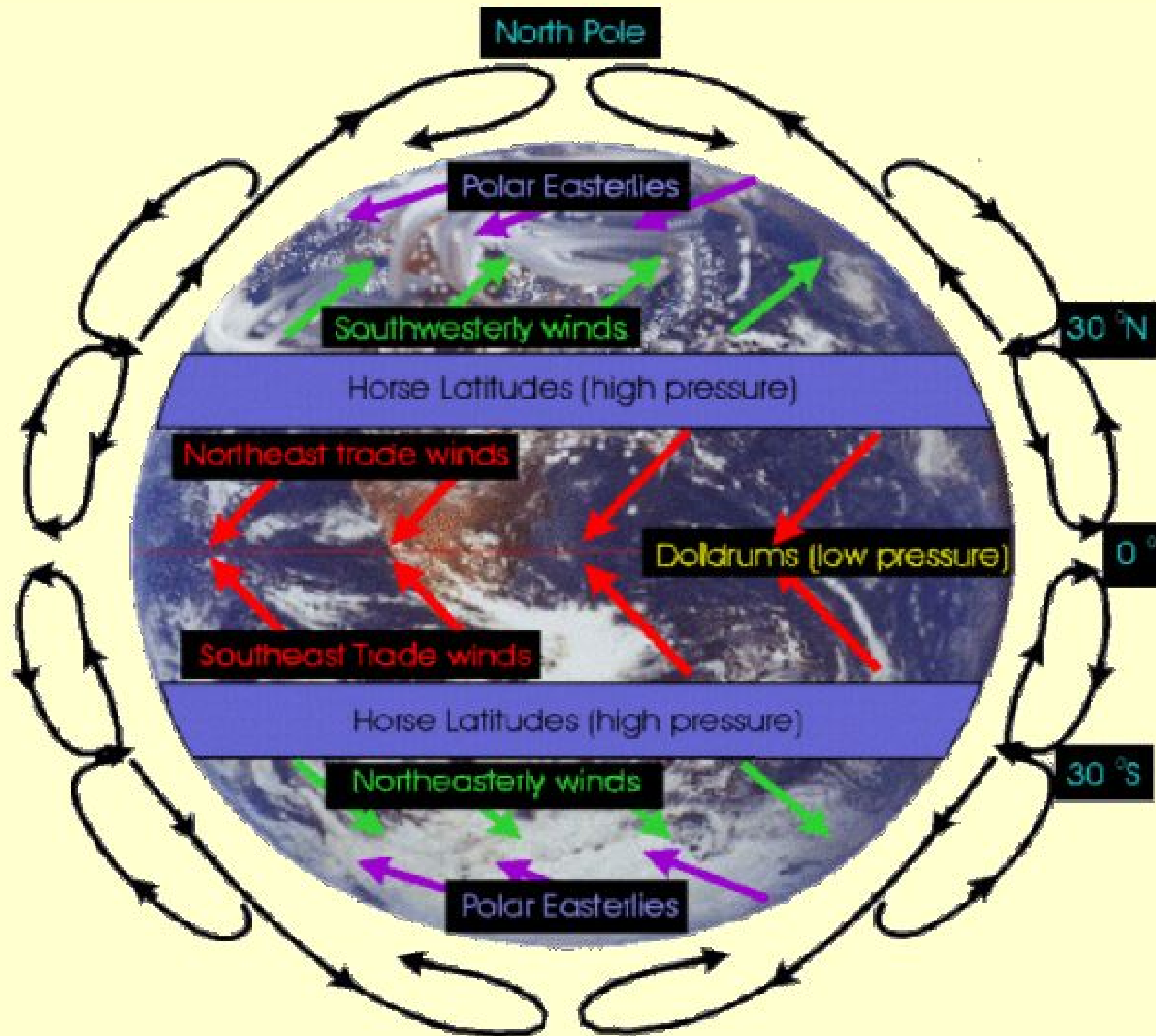
eg the tropics

Air **descends** in **cold** areas where pressure is **high** (subsidence)

eg the poles



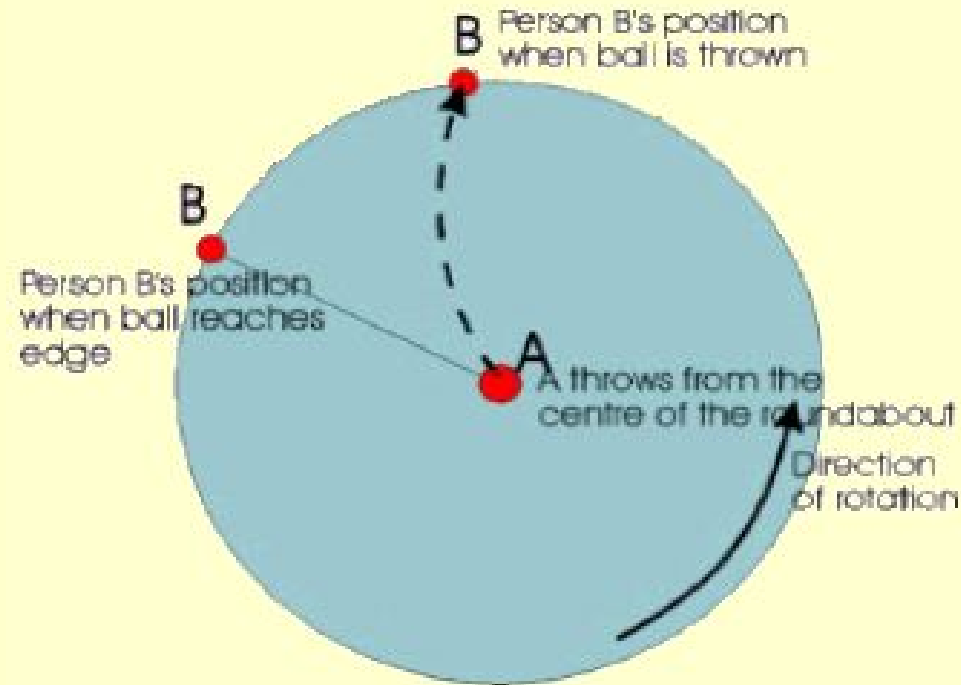
Global winds



Wind is the movement of air from regions of **high** pressure to regions of **low** pressure

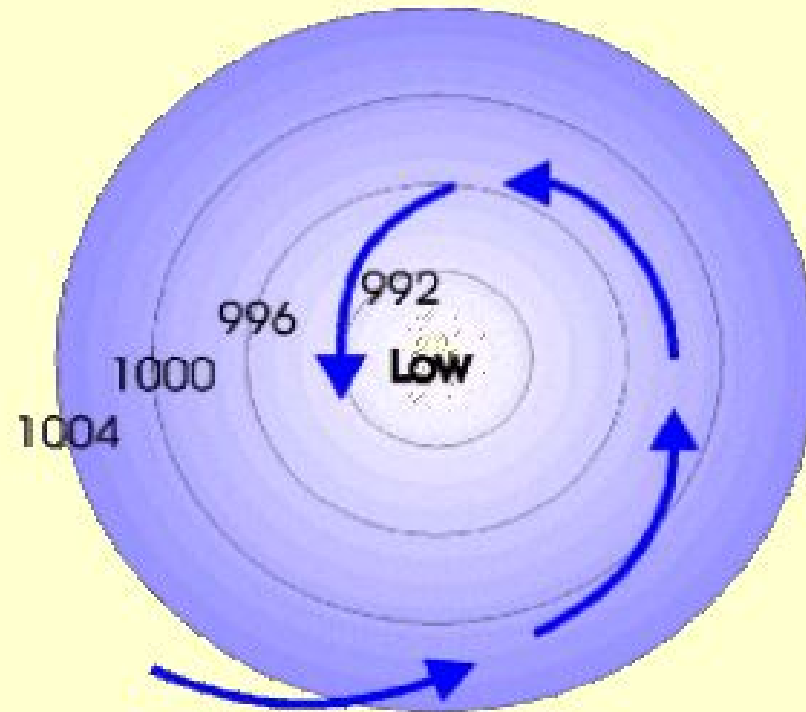
Winds deflect!

Winds do not blow directly from **high** to **low** pressure they get deflected by the Coriolis force



Winds blow in to lows

- Winds blow **anti-clockwise** and **in** towards areas of **low pressure**.
- Winds blow **clockwise** and **out** from areas of **high pressure**.



Wind speed!

The bigger the difference in pressure (pressure gradient) the stronger the wind

