

Class 3b: Winds (global and local)



Atmospheric pressure



Atmospheric pressure

- Warm air rises, cold air sinks



Measuring pressure



Mapping pressure

- *Isobars* connect points of equal pressure



What is wind?



Local winds: sea and land breezes



Land and sea breezes



Valley and mountain breezes



Foehn/chinook winds



Global circulation

- *Hadley cells*



Coriolis effect

- Deflection from Earth's rotation



Global circulation



ITCZ

- Convergence of rising air



Tradewinds



Subtropical highs



Westerlies



Polar highs and easterlies



Seasonal shifts



Monsoons



Monsoons

- Half the world's population relies on monsoons