

Waves (Rossby Waves) in the Westerlies

Rossby waves are very long wave 4000-6000 km named after C.G. Rossby, who first explained the nature of these waves.

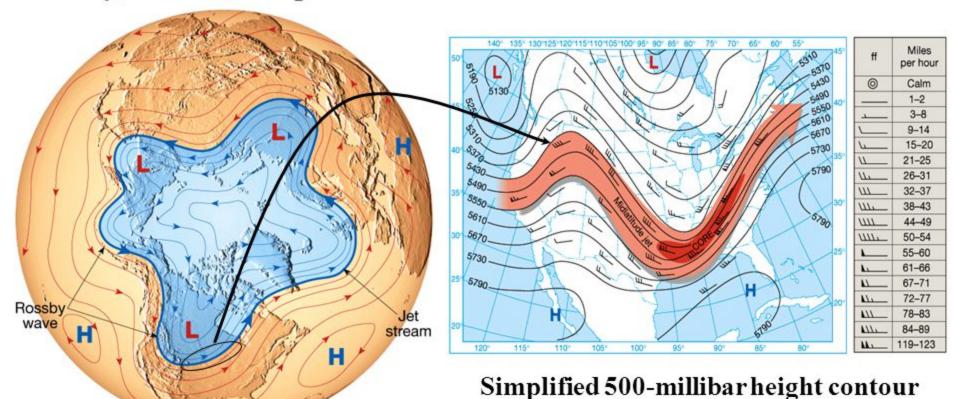
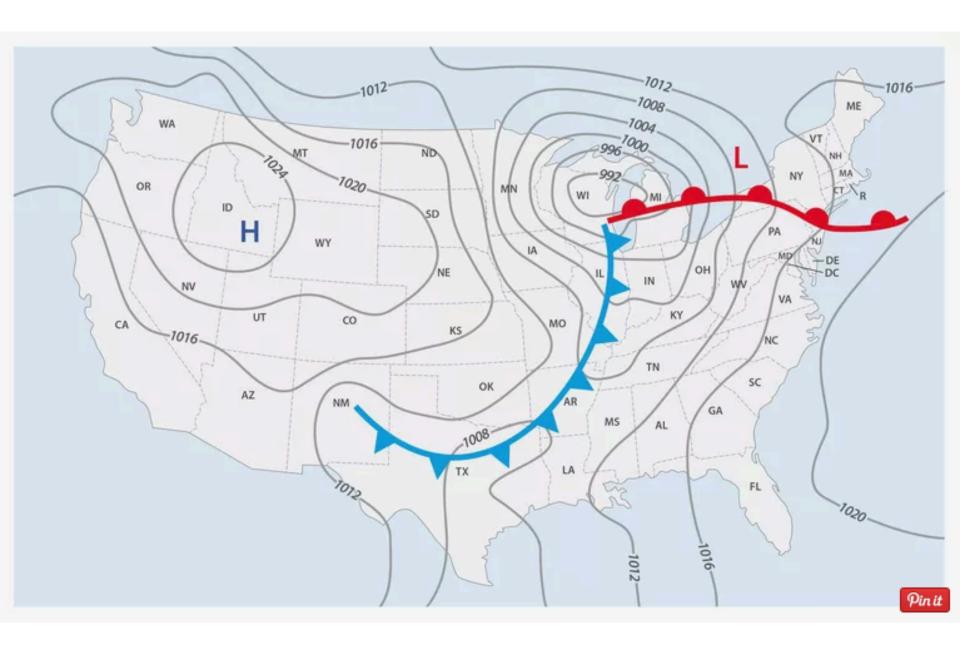
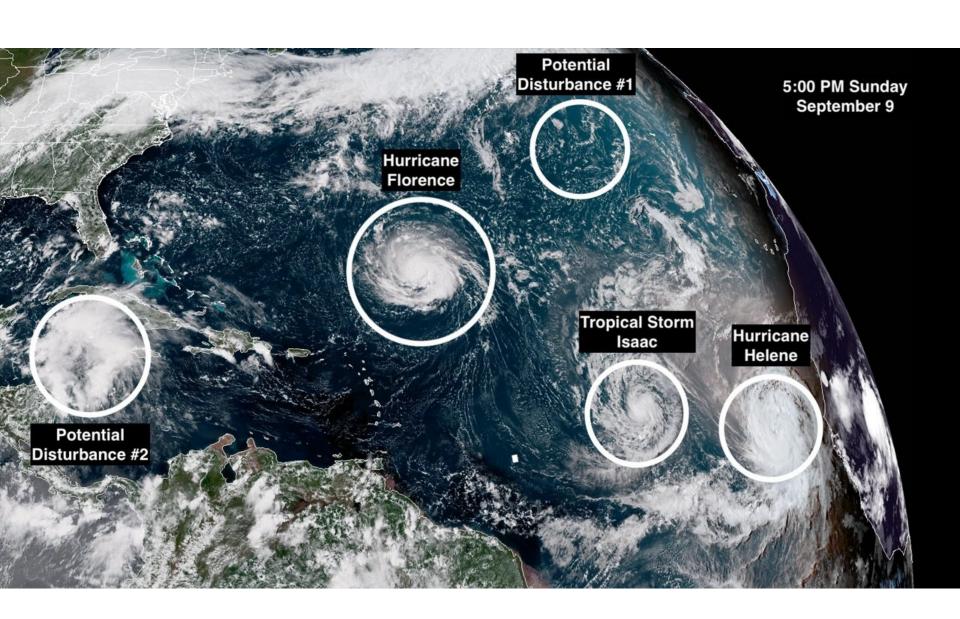


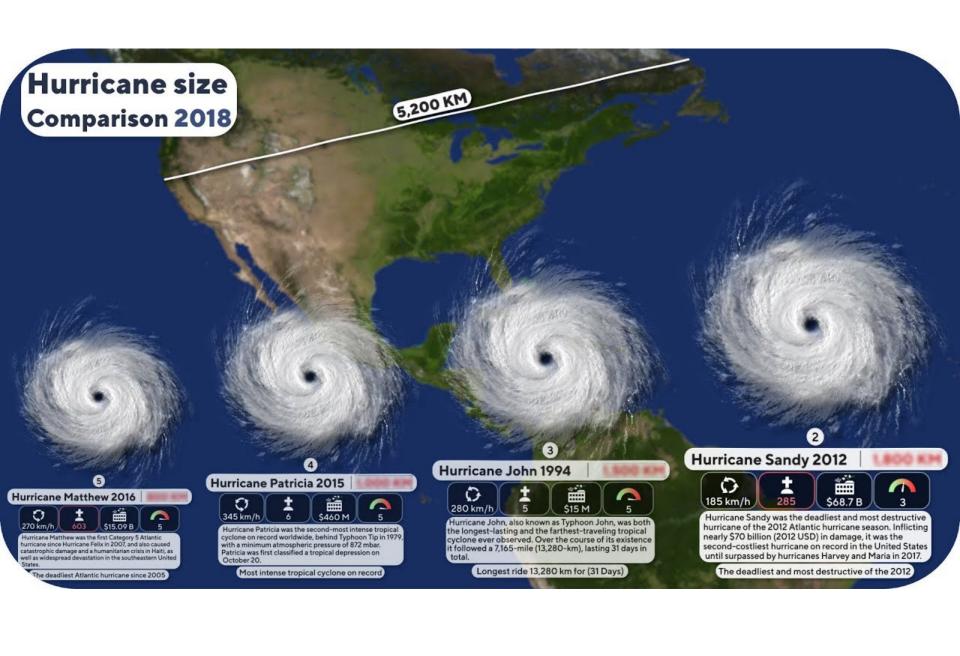
chart for January. The position of the

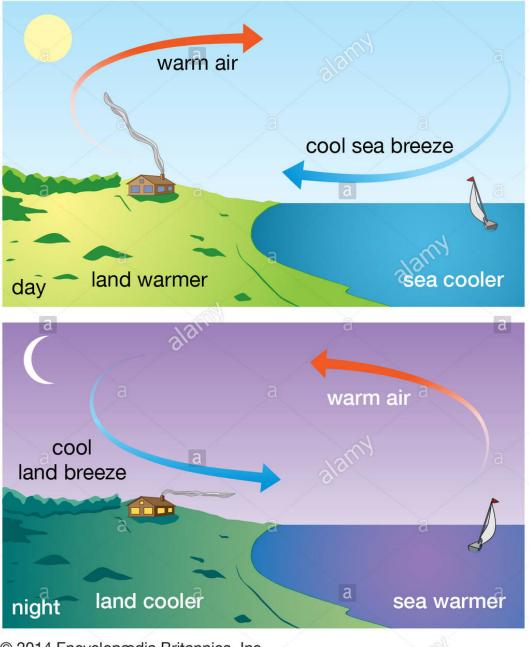
jet stream core is shown in dark.

Idealized flow at 500millibar level. The jetstream is the fast core of this wavy flow.









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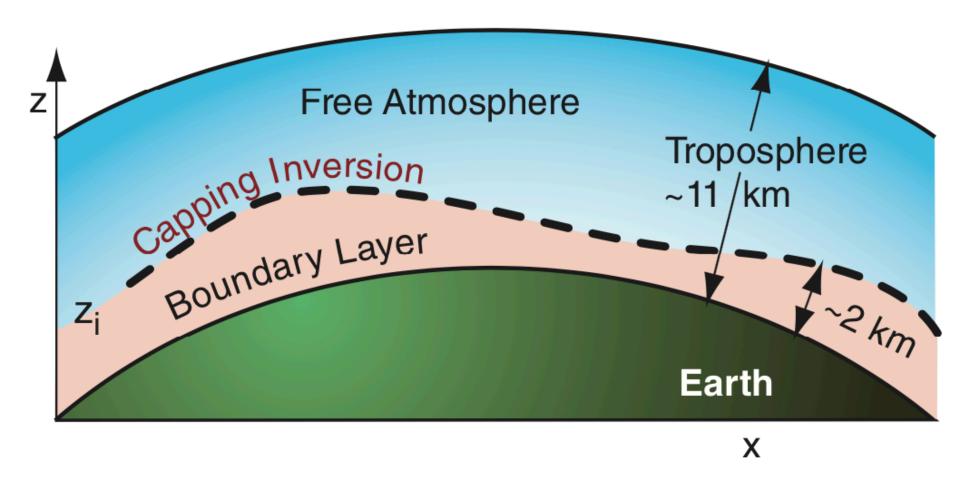
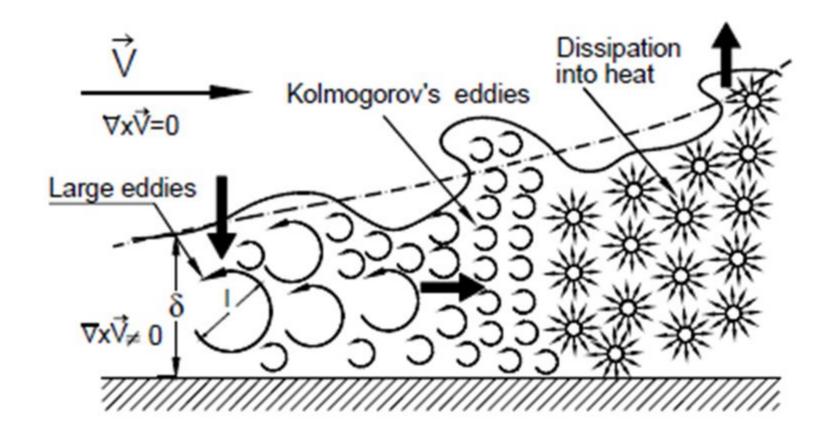
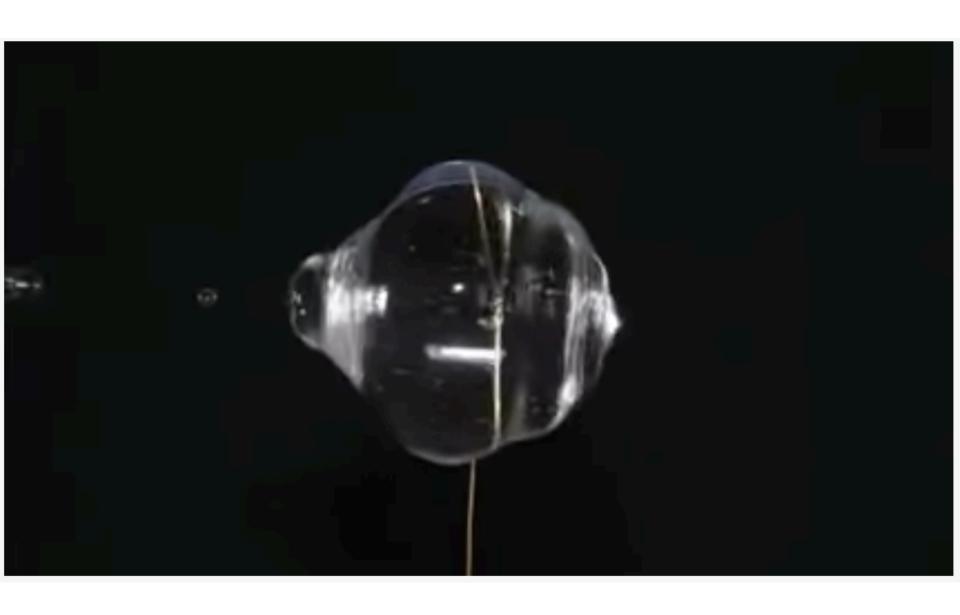


Figure 18.1 *Location of the boundary layer, with top at* z_i .

Instantaneous Energy Cascade in Turbulent Boundary Layer.



A state of universal equilibrium is reached when the rate of energy received from larger eddies is nearly equal to the rate of energy of when the smallest eddies dissipate into heat.



https://www.youtube.com/watch?v=jn5KuSHguUE