

















 Near the surface, the pressure decreases about 100mb by moving 1km higher in elevation.
ESS124 Prof. Jim-Yi Yu









temperature (isotherm), pressure (isobar), dewpoint temperature (isodrosotherm), or other quantities to simply interpretation of data on the maps.



 Fluid dynamics theories and equations that explain atmospheric motions are often in a more concise forms when they use pressure as a vertical coordinate.
Estimation of the second second







• Height minimum → low pressure.

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Other Upper-Level Weather Maps

- **850mb**: to identify fronts
- 700mb: intersects many clouds; moisture information is important
- **500mb**: used to determine the location of short waves and long waves associated with the ridges and troughs in the flow pattern. Meteorologists examine "vorticity" (i.e. rotation of air) on this pressure level.
- **300**, **250**, **and 200mb**: near the top of the troposphere or the lower stratosphere; these maps are used to identify the location of jetsreams that steer the movements of mid-latitude storms.















