

October 9, 2015
MSE 2101 topics

- Atmosphere longevity
 - solar wind stripping
 - impacts and collisions
 - thermal escape
- The source of magnetic field revisited
 - electrically conducting fluid/gas
 - convection in such a layer
 - moderately rapid rotation
- Greenhouse effect and global warming
- Average temperature on a planet surface – distance and ... ?
- The greenhouse effect: basic idea
- The sources: vibrations, rotations, fluorescence
- Greenhouse gases: CO₂, H₂O, CH₄
- CO₂ on Earth vs. Venus:
 - 1:200,000 in the atmosphere
 - 170,000:1 in the rocks
- The carbon dioxide cycle:
 - rainfall → erosion → deposits → subduction → melting →
outgassing → dissolving