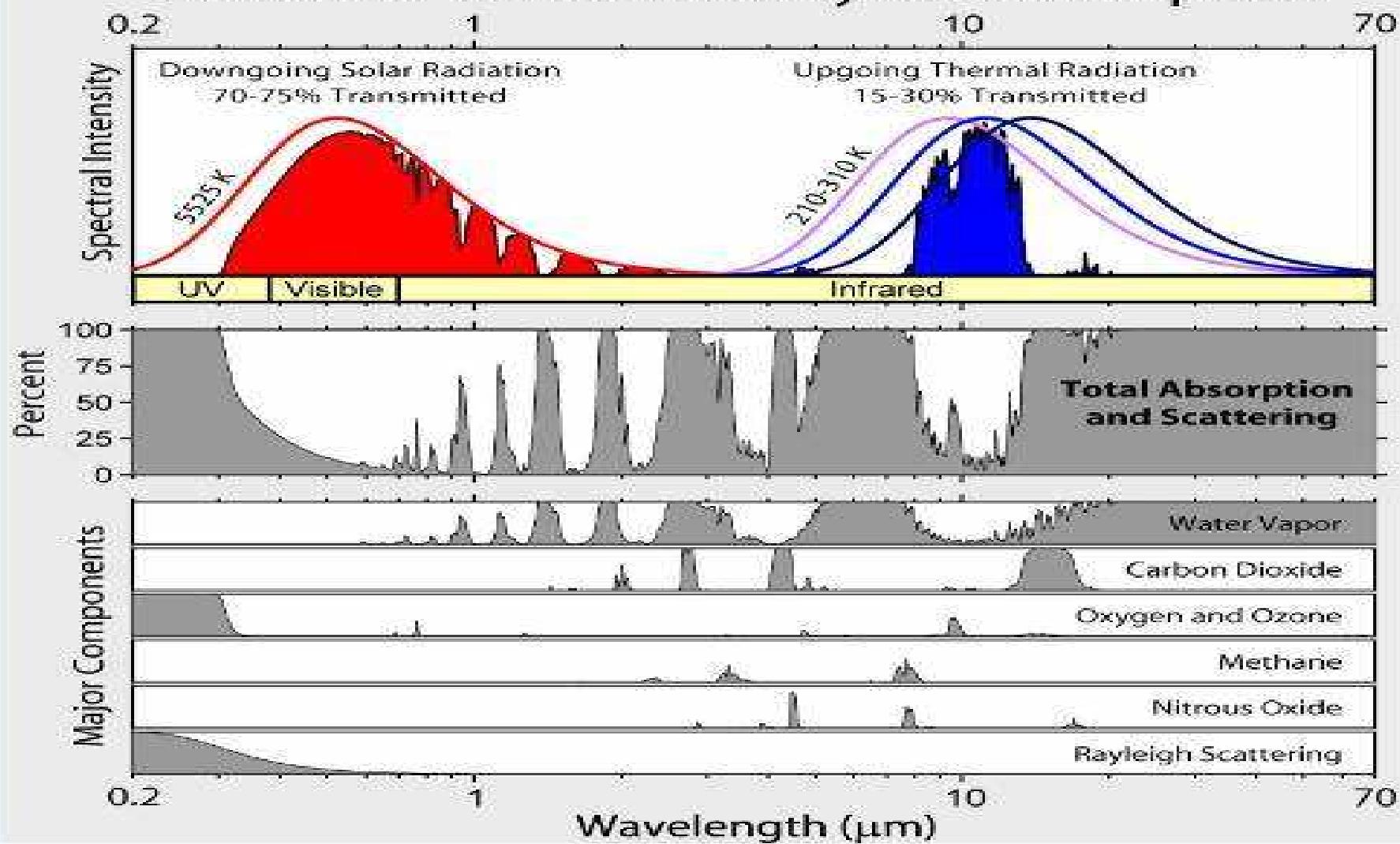
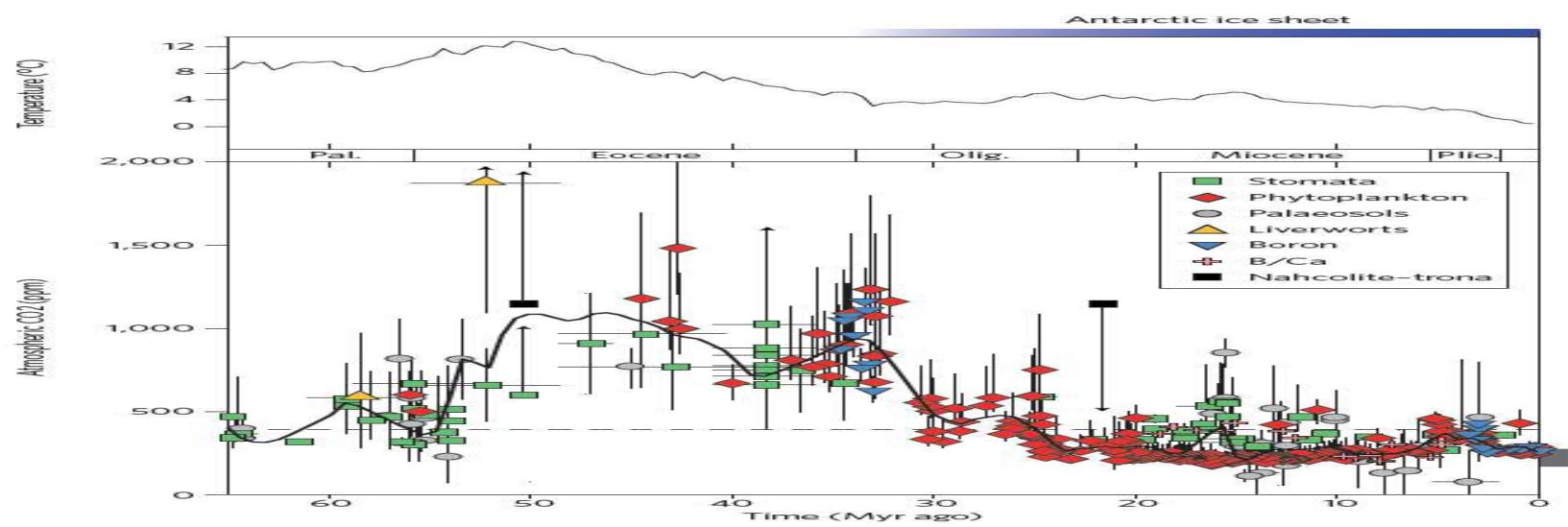
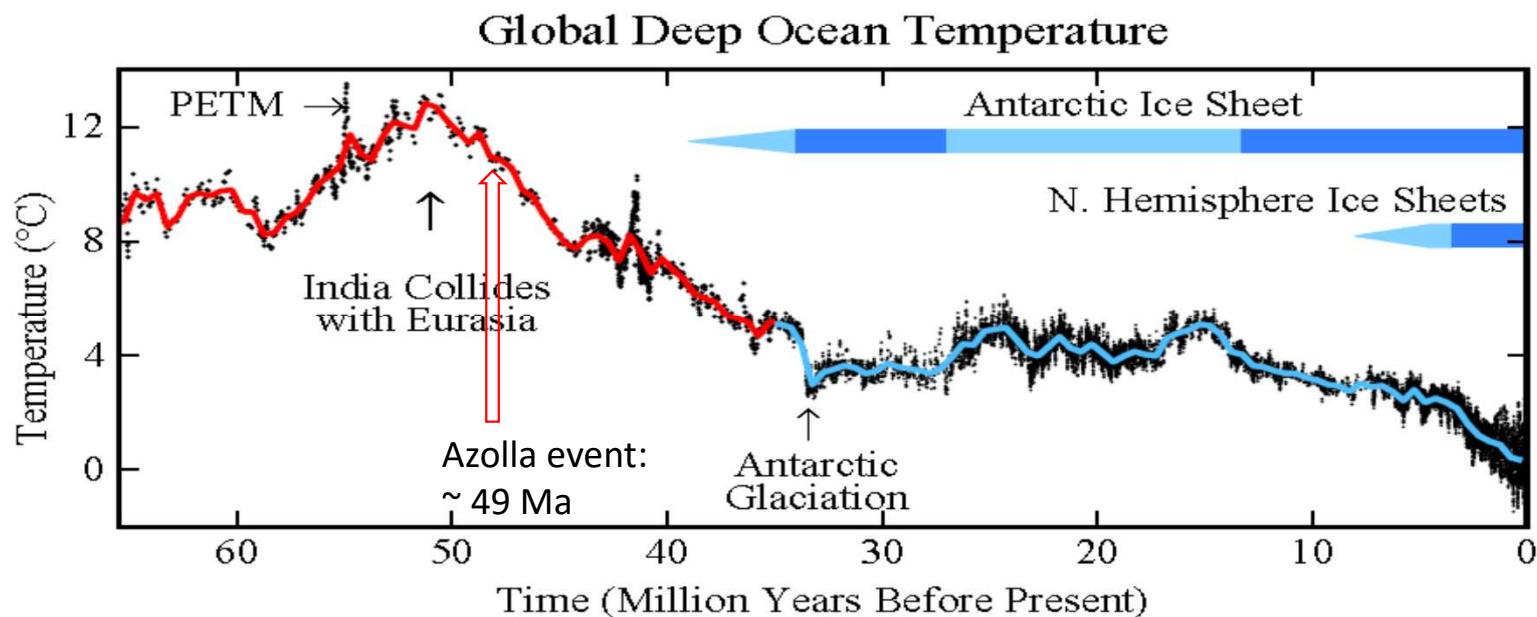
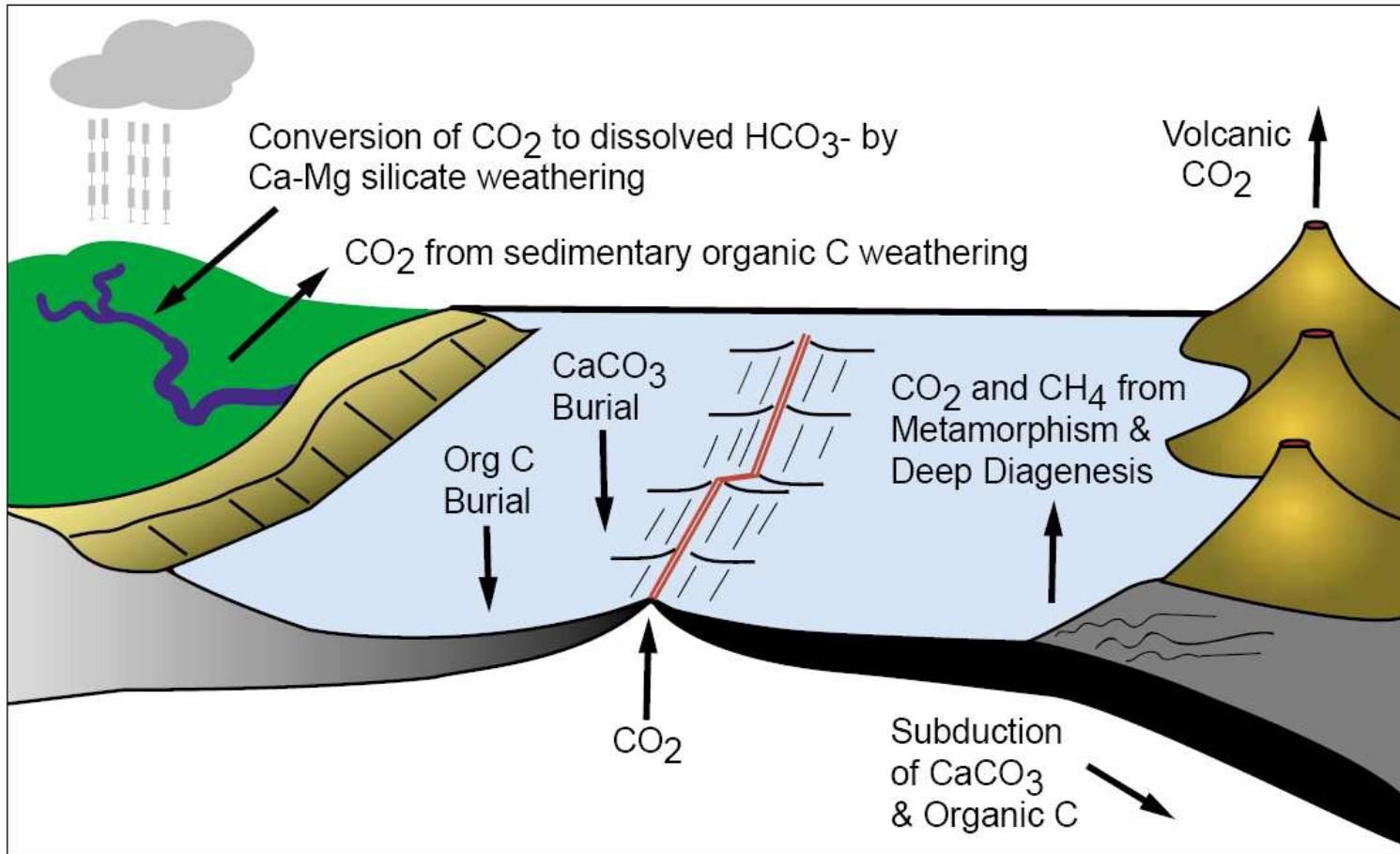


## Radiation Transmitted by the Atmosphere



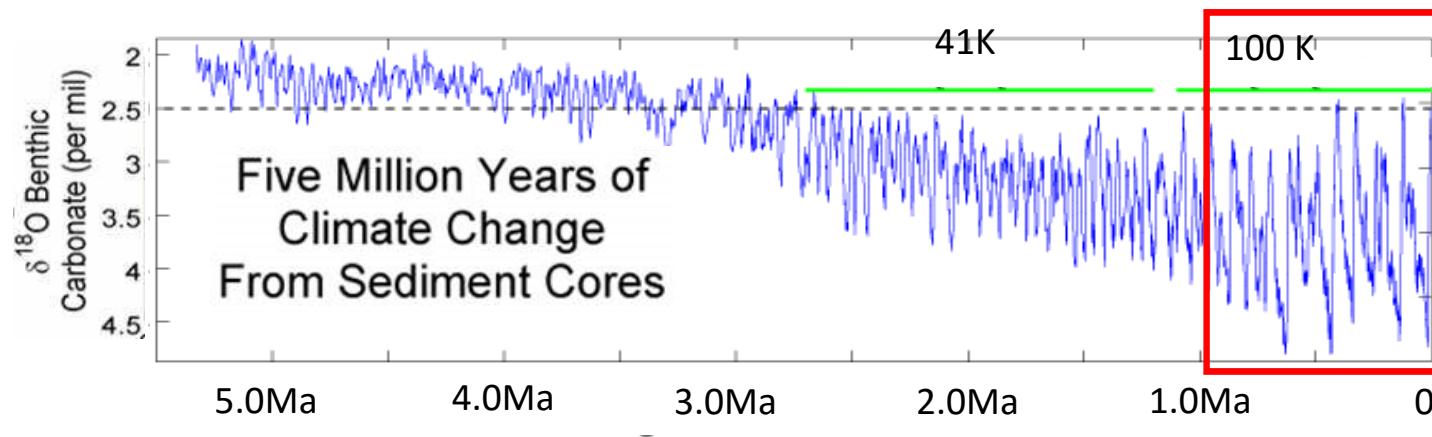


# Long-term carbon cycle: *rocks*



Berner, 2001

# Climate Changes from Ocean Sediment Cores, since 5 Ma. Milankovitch Cycles



When CO<sub>2</sub> levels get below ~400-600 ppm Orbital parameters become more important than CO<sub>2</sub>

# Milankovitch Cycles

