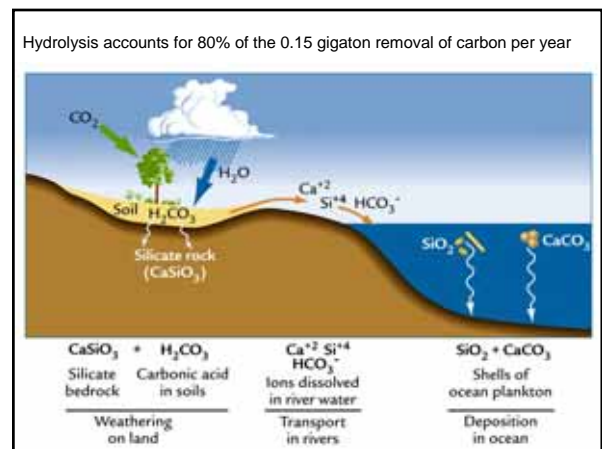
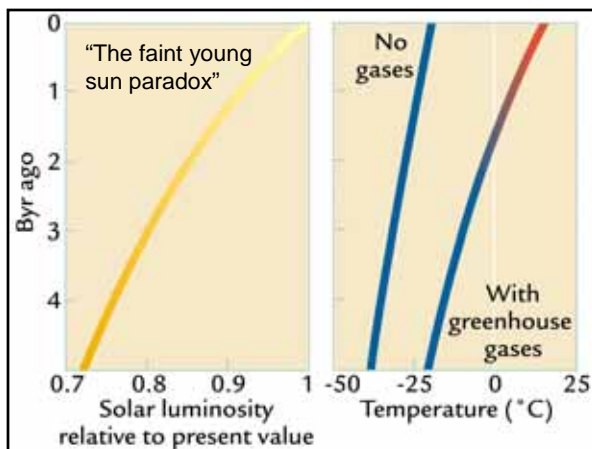
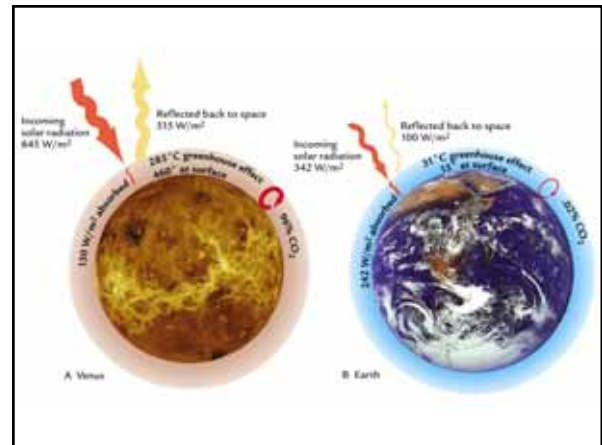
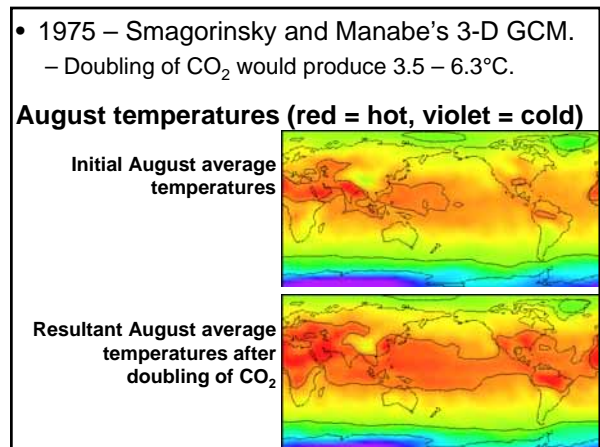
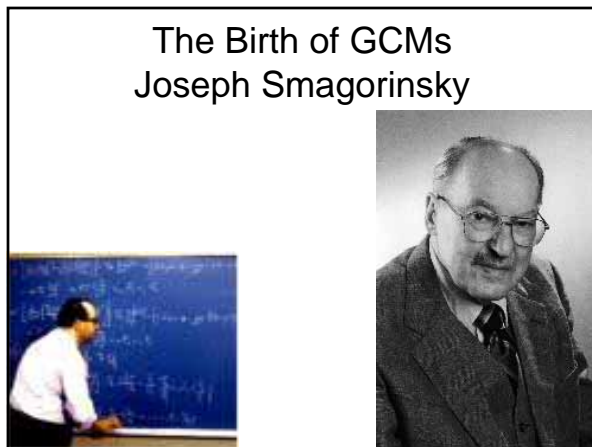
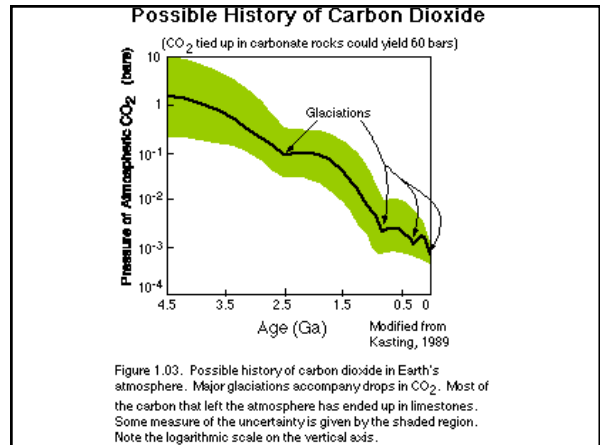
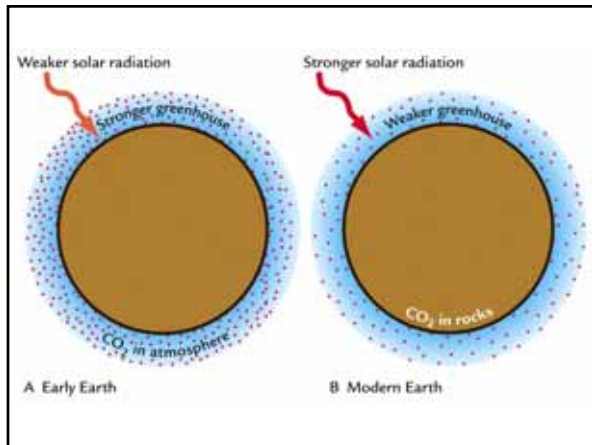
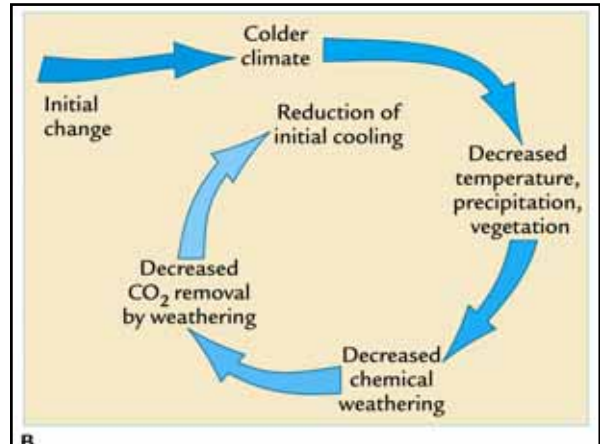
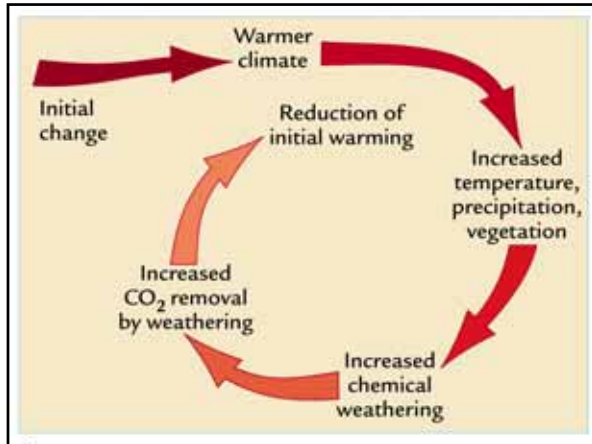


- ### Earth – Venus comparison
- Earth
    - Avg. surface temp. 15°C.
    - 1 A.U. from Sun
    - 342 W/m<sup>2</sup> reach Earth
    - 31% radiation reflected back to space
    - 242 W/m<sup>2</sup> absorbed
    - 0.02% CO<sub>2</sub>
    - 31°C greenhouse effect
  - Venus
    - Avg. surface temp. 460°C.
    - 0.72 A.U. from Sun
    - 645 W/m<sup>2</sup> reach Venus
    - 80% radiation reflected back to space
    - 130 W/m<sup>2</sup> absorbed
    - 96% CO<sub>2</sub>
    - 285°C greenhouse effect





# James Hansen – NASA

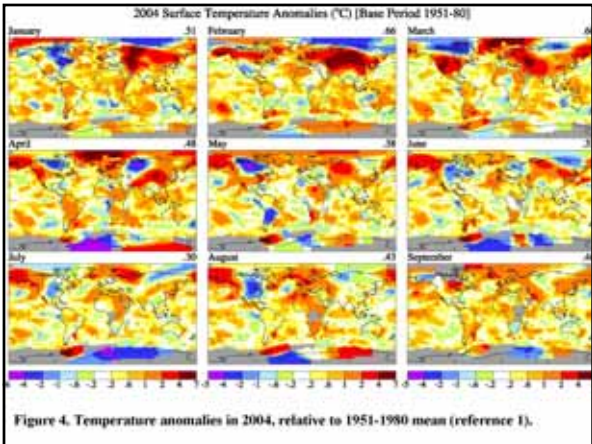
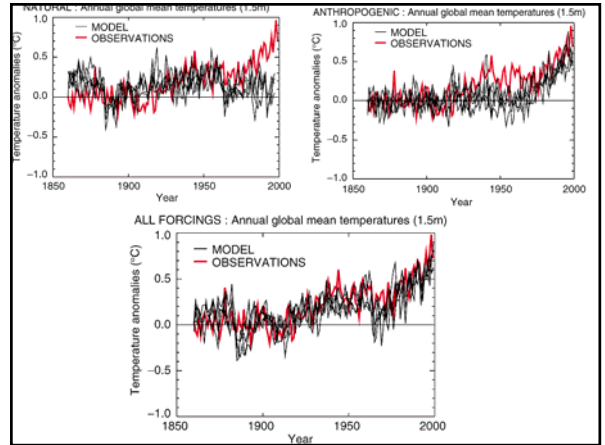
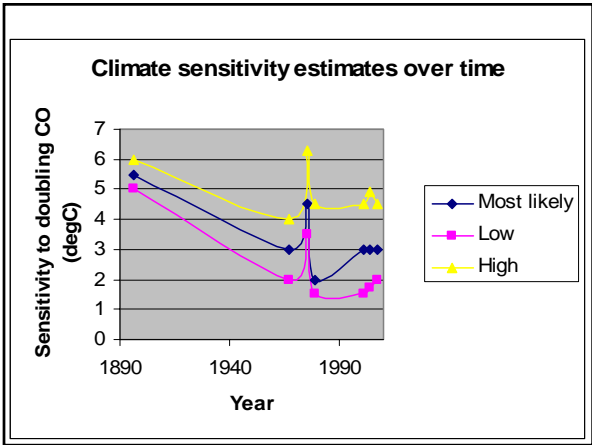
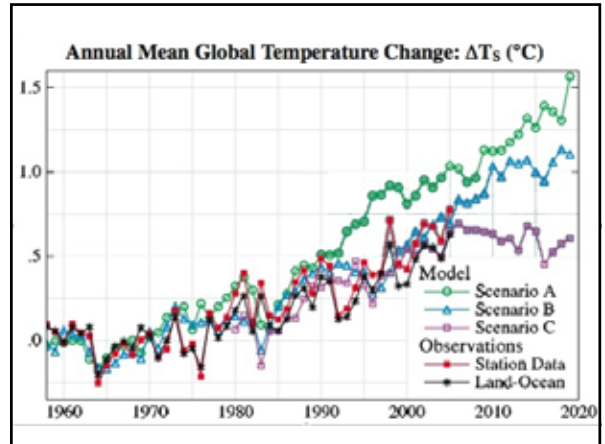
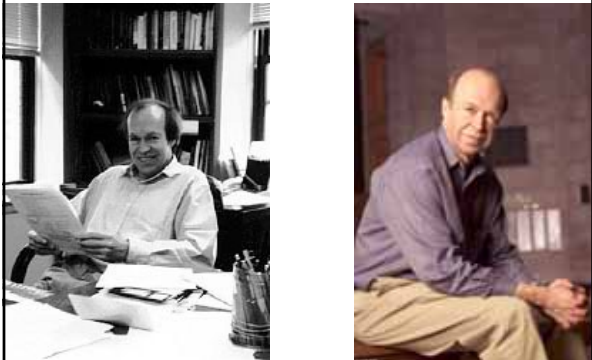


Figure 4. Temperature anomalies in 2004, relative to 1951-1980 mean (reference 1).

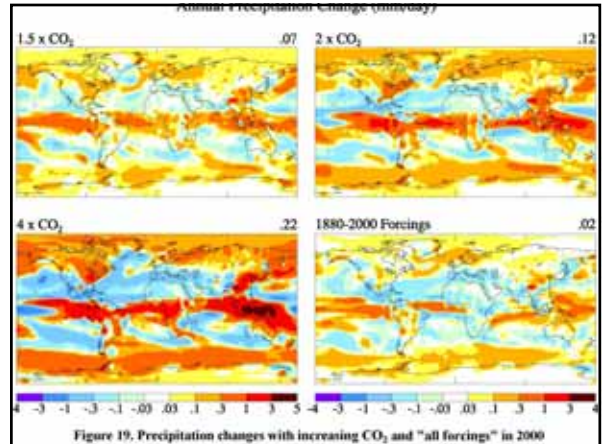


Figure 19. Precipitation changes with increasing CO<sub>2</sub> and "all forcings" in 2000