

# Atmospheric Concentrations of Greenhouse Gases are Increasing

- Atmospheric concentrations of greenhouse gases have increased significantly since industrial revolution
  - Carbon dioxide +30%; Methane +100%; Nitrous oxide +15%
  - Greenhouse gas concentrations projected to reach double pre-industrial levels by about 2060
- Many greenhouse gases remain in atmosphere for a long time (decades to centuries)
- Projected CO<sub>2</sub> concentration levels are significantly higher than any observed over the past 160,000 years