

Climate Change and Ozone Depletion Ch 19

Earth's Temperature Change in the Future

- Greenhouse effect
- Tipping Point
- Ice cores
- IPCC 2007 Report
 - Positive and negative feedback loops
- Ocean Acidification
 - Basic chemistry
 - Effects on organisms
- Cloud Cover

Effects of a Warmer Atmosphere

- Increased Drought
 - Food production
- Glaciers melting
 - Land vs sea based ice
- Sea level rise
 - Impact on humans and orgs
- Melting Permafrost
 - Methane
- Ocean Conveyer
 - Ice age?
- Biodiversity
 - Generalists vs specialist
 - Migratory species
- Human Health
 - Heat related deaths

Slowing Climate Change

- Input or prevention strategies
 - Energy efficiency
 - Move to renewable energy
 - Stop cutting down rainforests
- Output strategies
 - Carbon capture
- Climate Stabilization Wedge
- Carbon Capture and Storage
- Government Role
 - Taxes on carbon
 - Cap-and-trade
 - Technology transfer
- Kyoto Protocol
 - US role
- Preparing for Climate Change
 - Genetically engineering crops

Ozone Depletion

- Molina and Rowland
 - CFCs
- When/where ozone forms
 - Chemical reaction!
- Impacts
 - Human health
 - Plant life
- Montreal Protocol
- Copenhagen Protocol