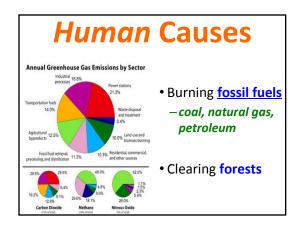
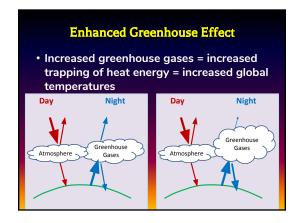
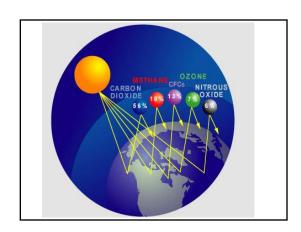


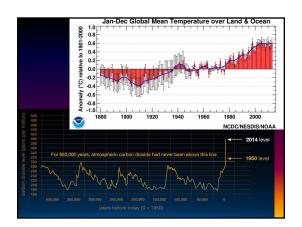
#### **Natural vs. Enhanced Greenhouse Effect** Enhanced Natural Responsible for Earth's Responsible for an slow cooling at night abnormally high amount of heat retention at night Sources of gases: - Evaporation & · Sources of gases: transpiration - Burning fossil fuels Volcanoes - Deforestation - Forest fires - Respiration by people - Respiration by organisms - Factory outputs Weathering of rocks











# **Climate Change**

- Last 100 years . . .
  - 1.53°F increase in global temperature
  - Much more RAPID than in the past
- Land areas = a larger temperature increase than water (specific heat capacity)
- · People have increased the amount of greenhouse gases present . . .

## **Impacts of Global Warming**

- Changes in weather patterns
- More intense heat waves
- Increased droughts and floods
- Decrease in human health
  - More respiratory disease
  - More infectious diseases (most diseases tolerate heat better than cold)
  - Malnutrition (no longer can grow same crops/amounts)

## Impacts of Global Warming: More **Respiratory Disease**

- The Air Quality Index (AQI) indicates . . .
  - How clean or polluted the air is
  - Associated health concerns
  - Indicates who is at the most risk—usually the elderly, children, & the ill
- 2 greatest threats in US:
- Ground-level ozone
- Airborne particles

### **Potential Impacts of Global Climate Change on Human Health** Norbidity / mortality / displacement Storms & flooding Morbidity / mortality Global climate change effects: Vector biology Infectious diseases Temperature Respiratory diseases Air pollutants Sea level Precipitation Food supply Malnutrition Civil conflict Morbidity / mortality / displacement