

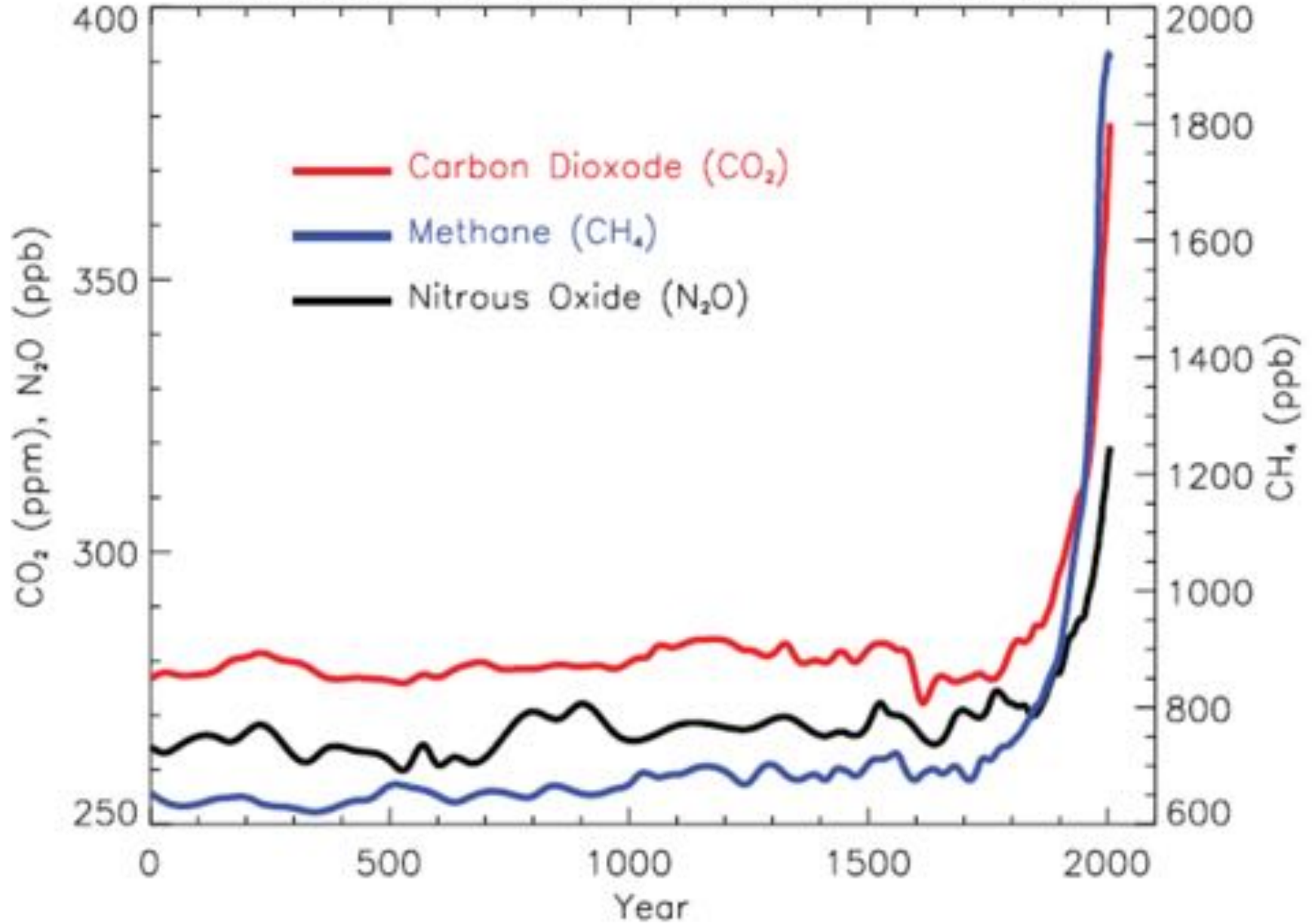
*There is a two-way, dynamic
relationship between ecosystems
and climate change*

Earth's atmosphere

Some key components of the
(dry) atmosphere

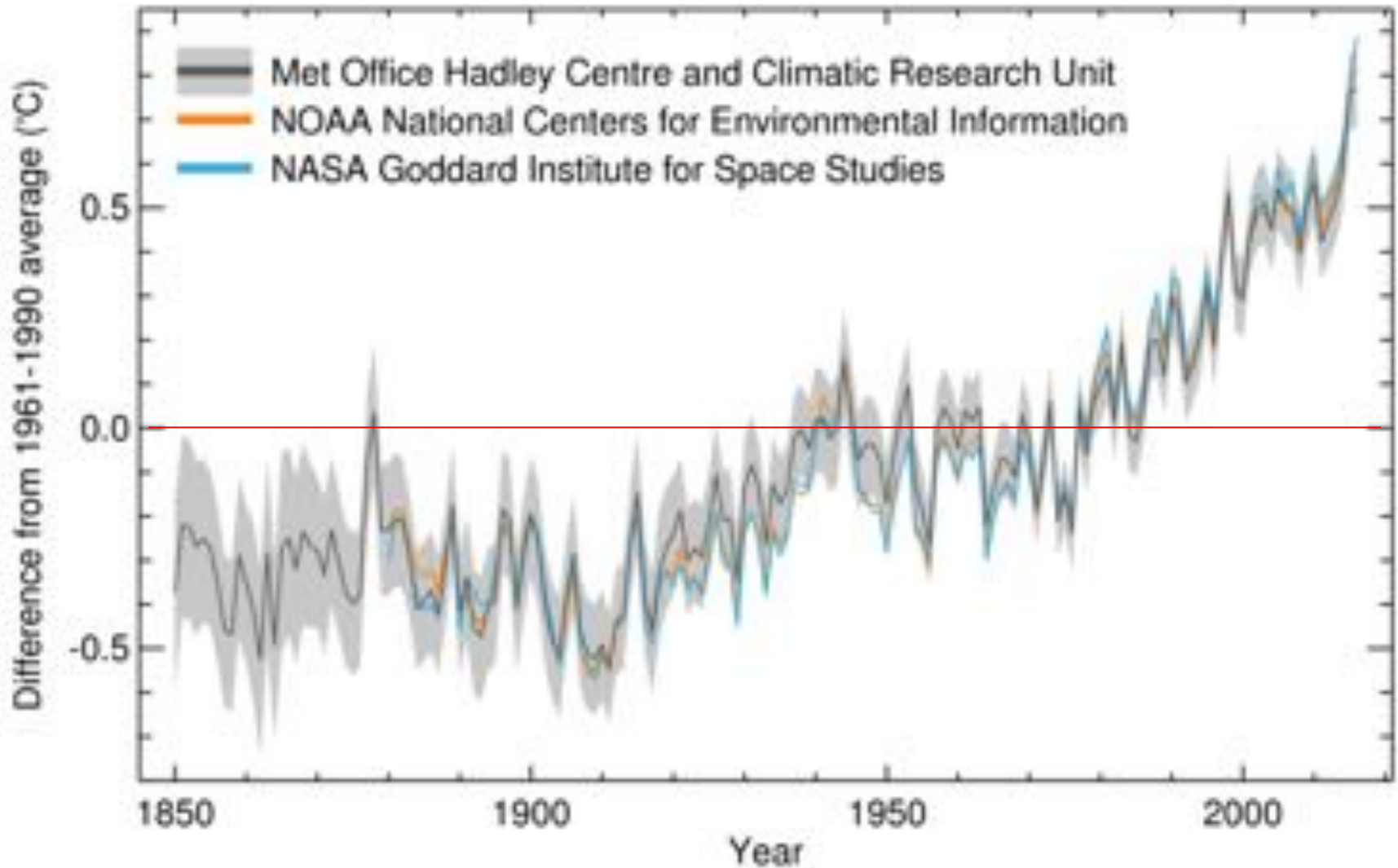
Nitrogen	78%
Oxygen	21%
Argon	0.9%
Carbon dioxide	0%
Methane	0%
Nitrous oxide	0%
Temperature	-18 °C

Concentrations of Greenhouse Gases from 0 to 2005



Source: Forster P, et al. (2007) Changes in atmospheric constituents & in radiative forcing. Climate Change 2007: the Physical Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change

Climate change

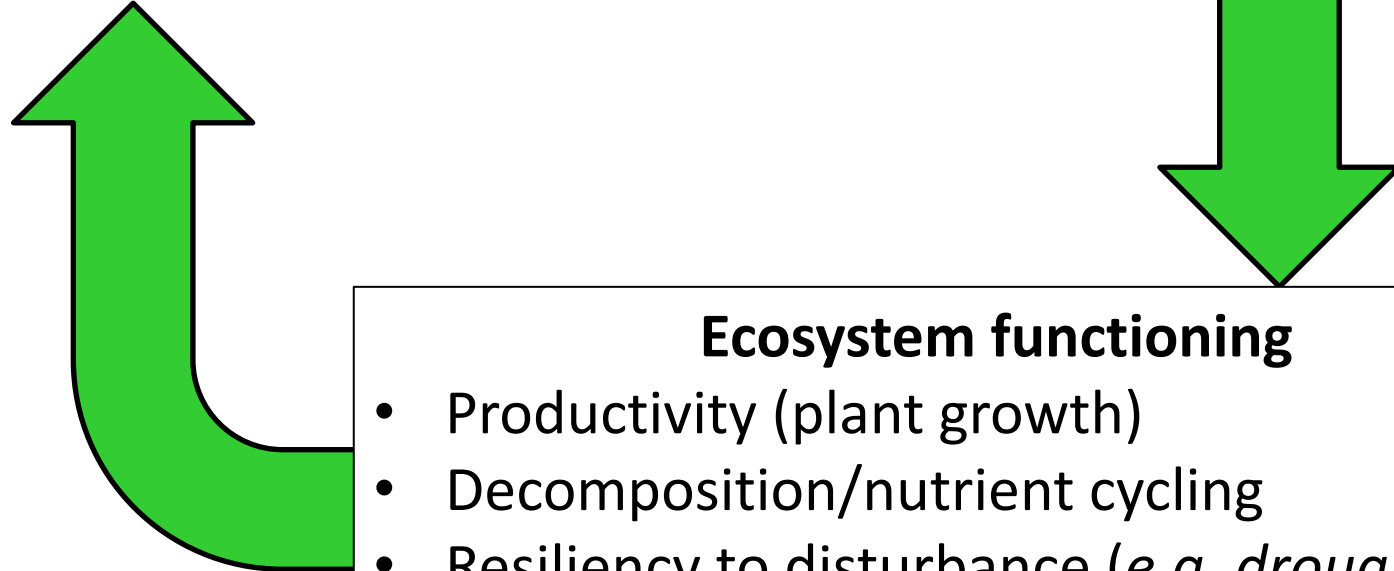


Climate change

- Increased temperature
- Altered precipitation
- Extreme weather
- Altered water levels

Ecosystem functioning

- Productivity (plant growth)
- Decomposition/nutrient cycling
- Resiliency to disturbance (*e.g. drought, fire*)
- Invasive species



carbon dioxide



carbon dioxide
methane
nitrous oxide



