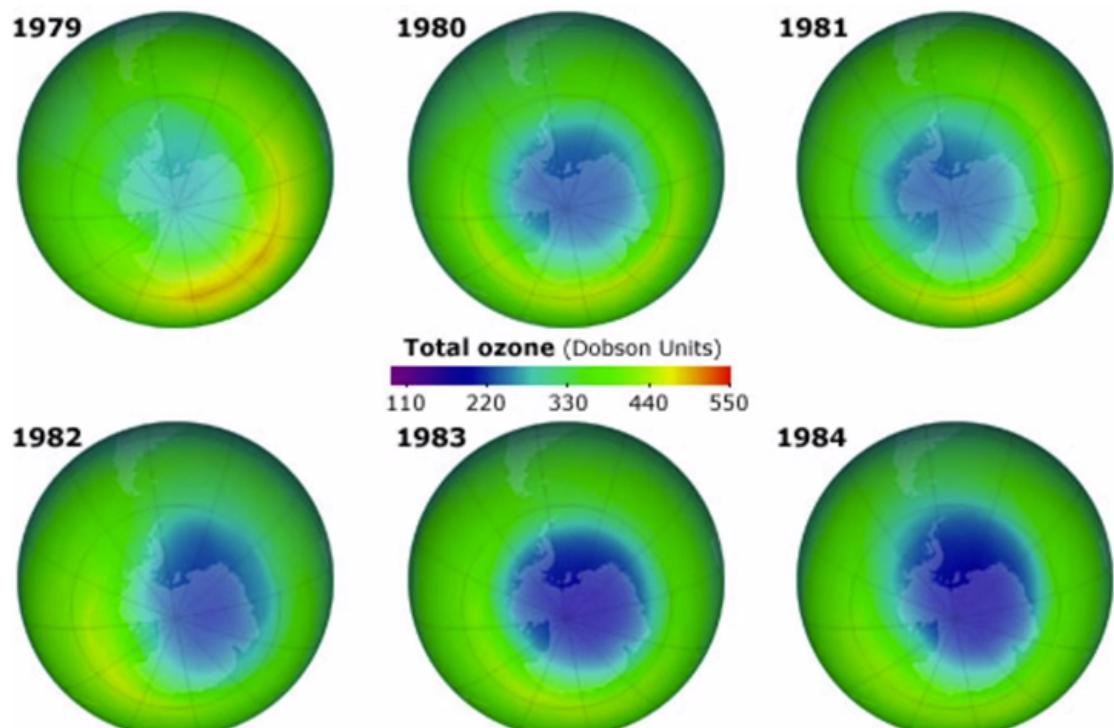
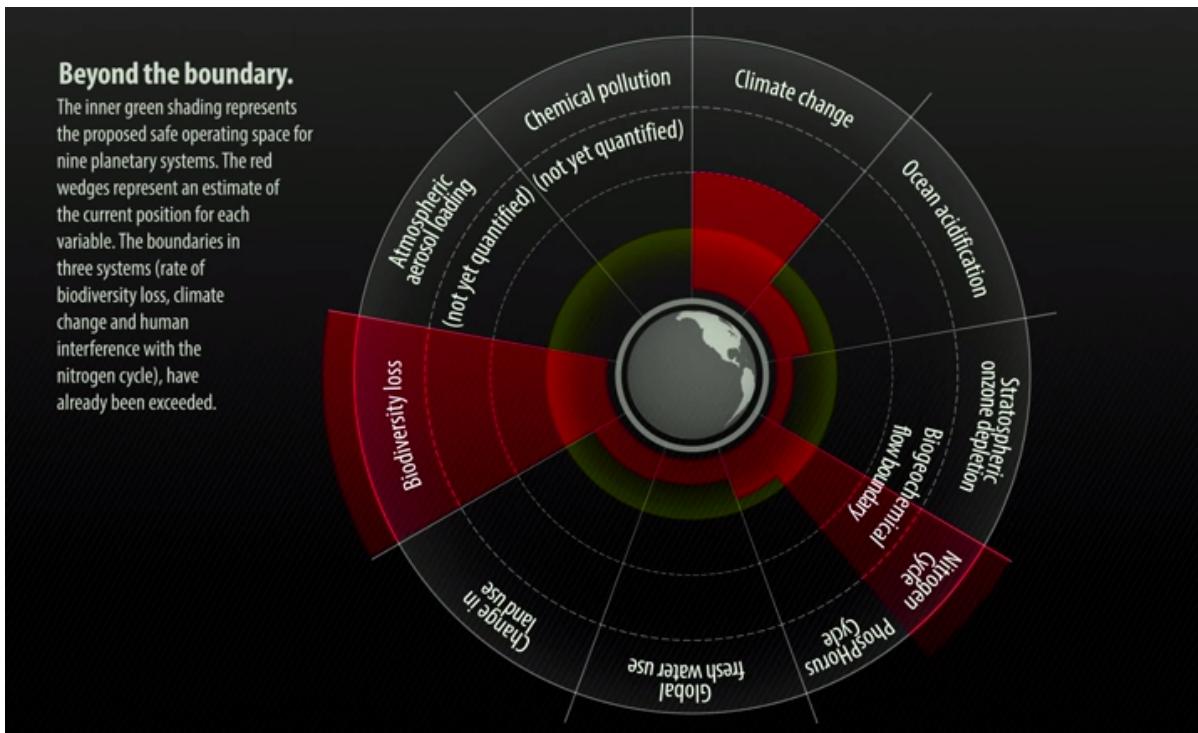
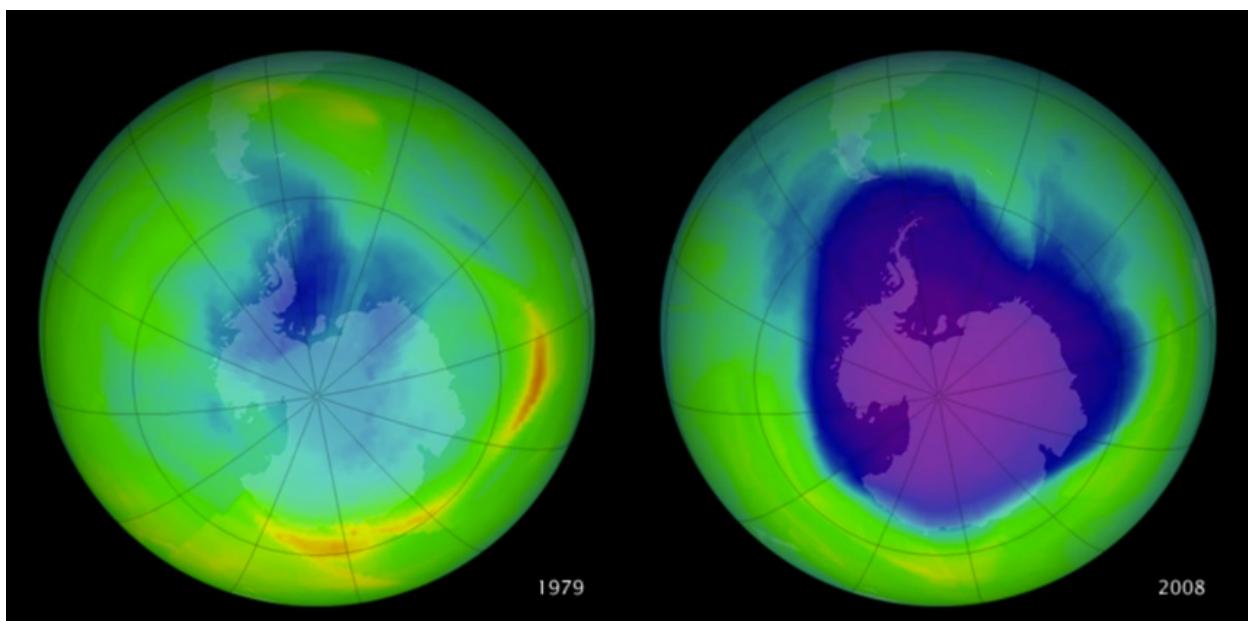


Graphics for Lecture 1

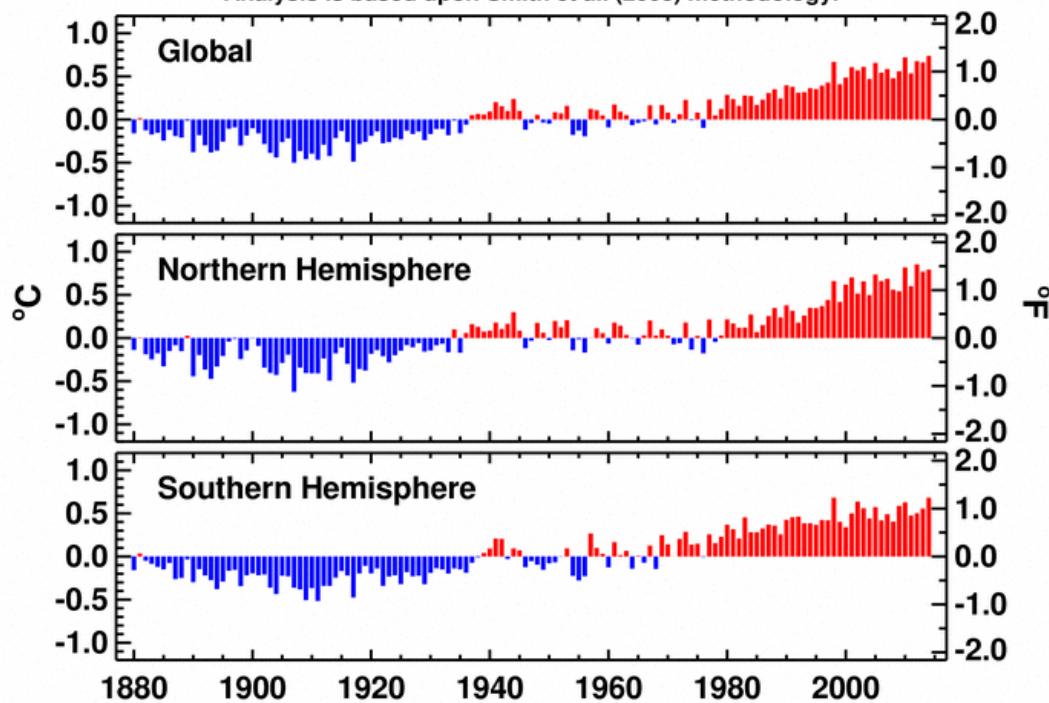
CHAPTER 1



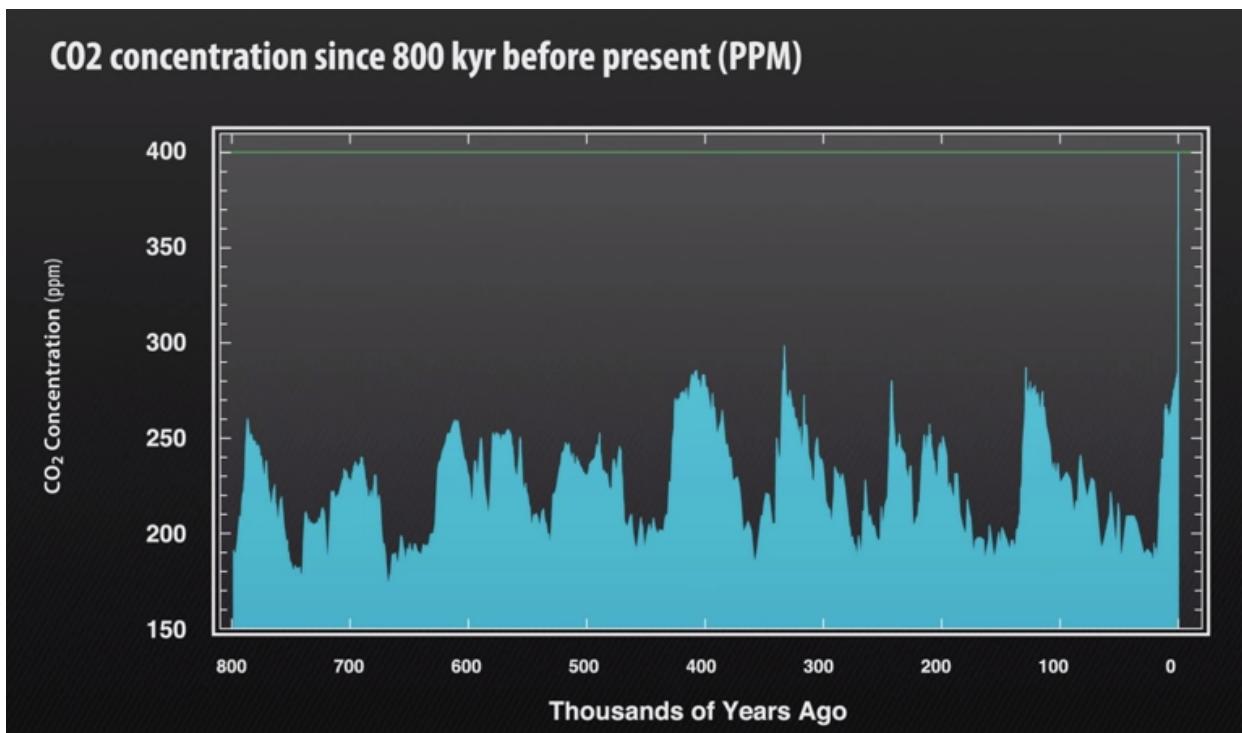
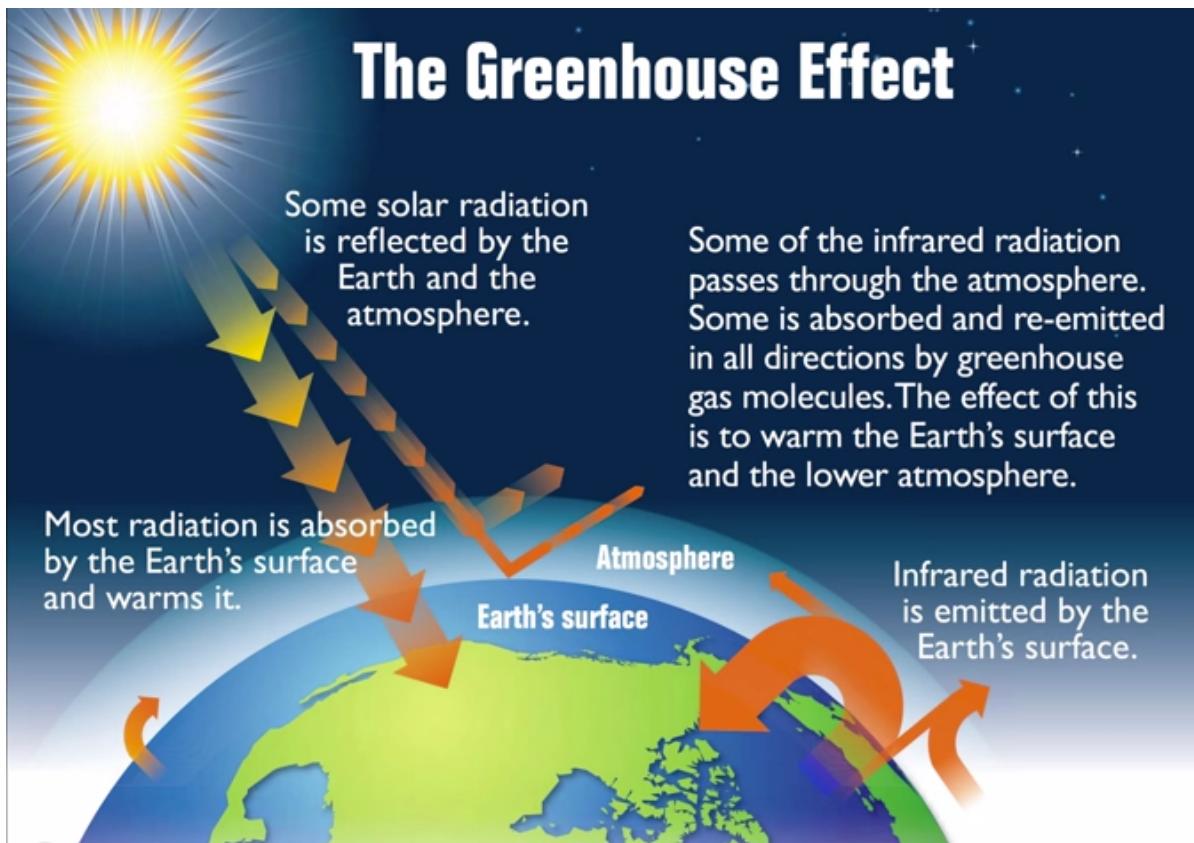


May Land & Ocean Surface Mean Temp Anomalies NCDC/NESDIS/NOAA

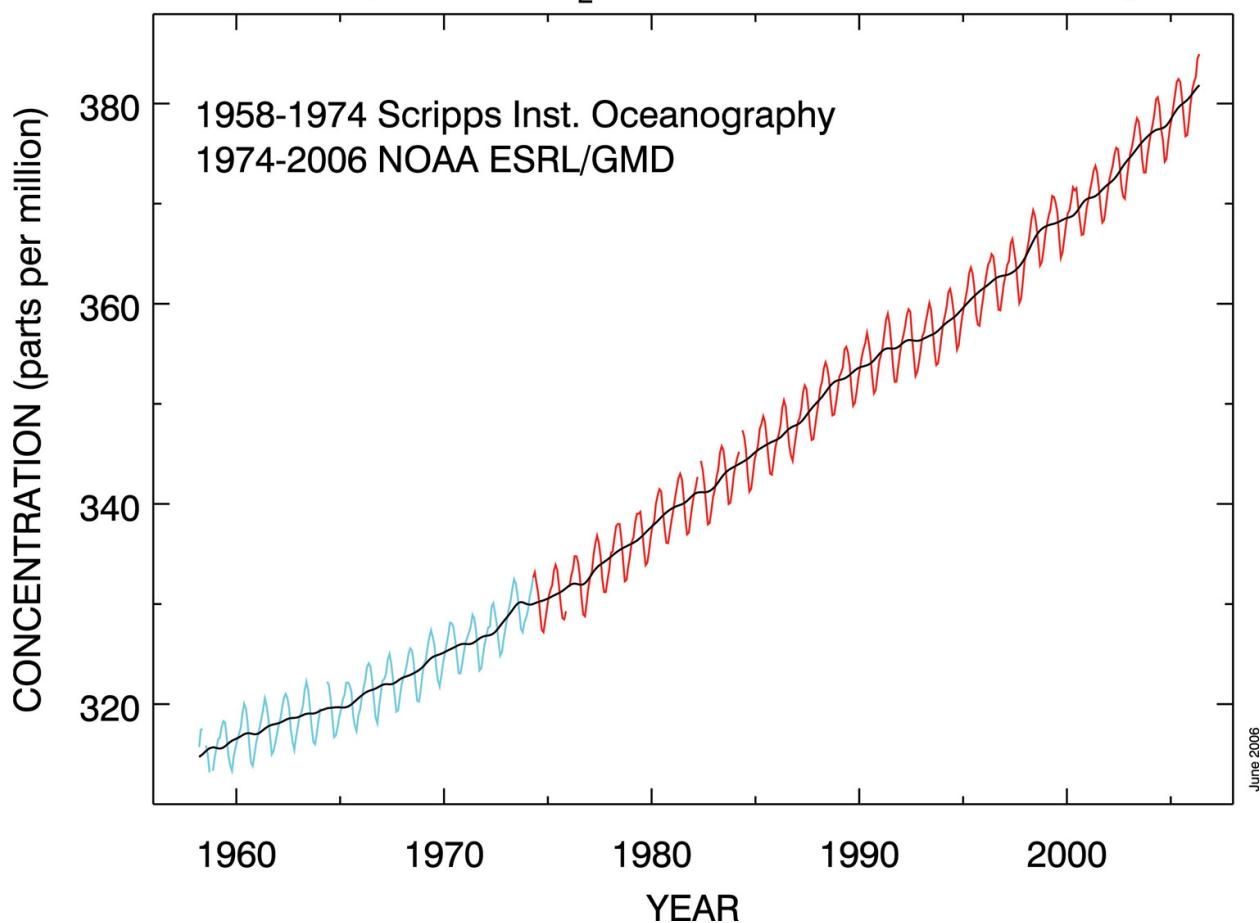
Analysis is based upon Smith et al. (2008) methodology.



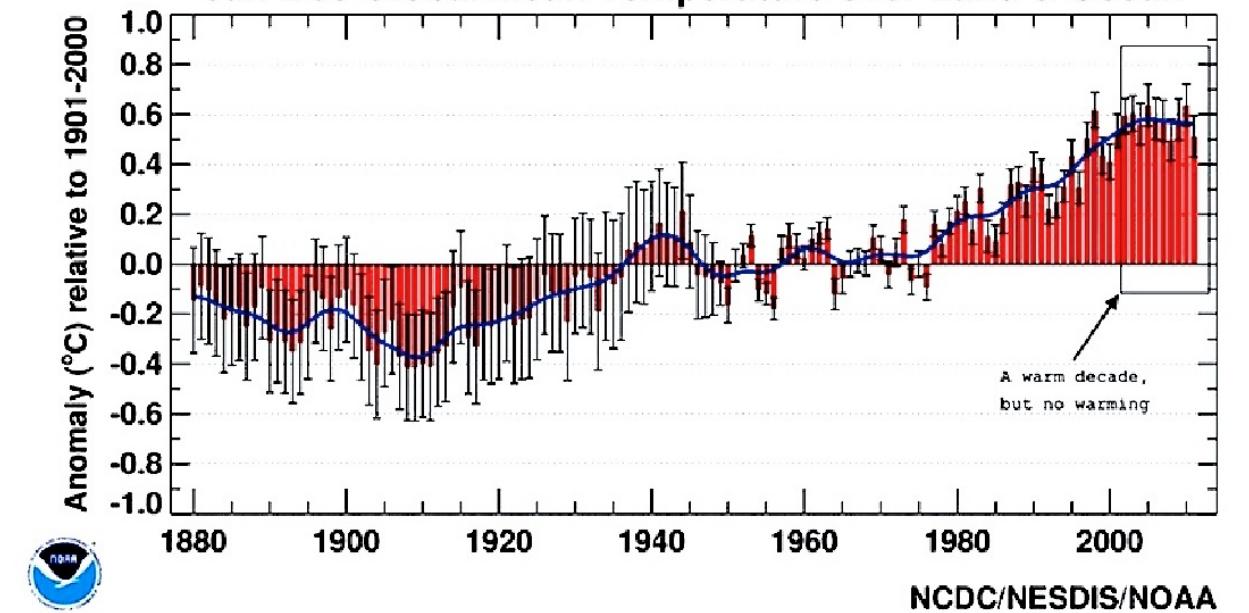
CHAPTER 2



Atmospheric CO₂ at Mauna Loa Observatory



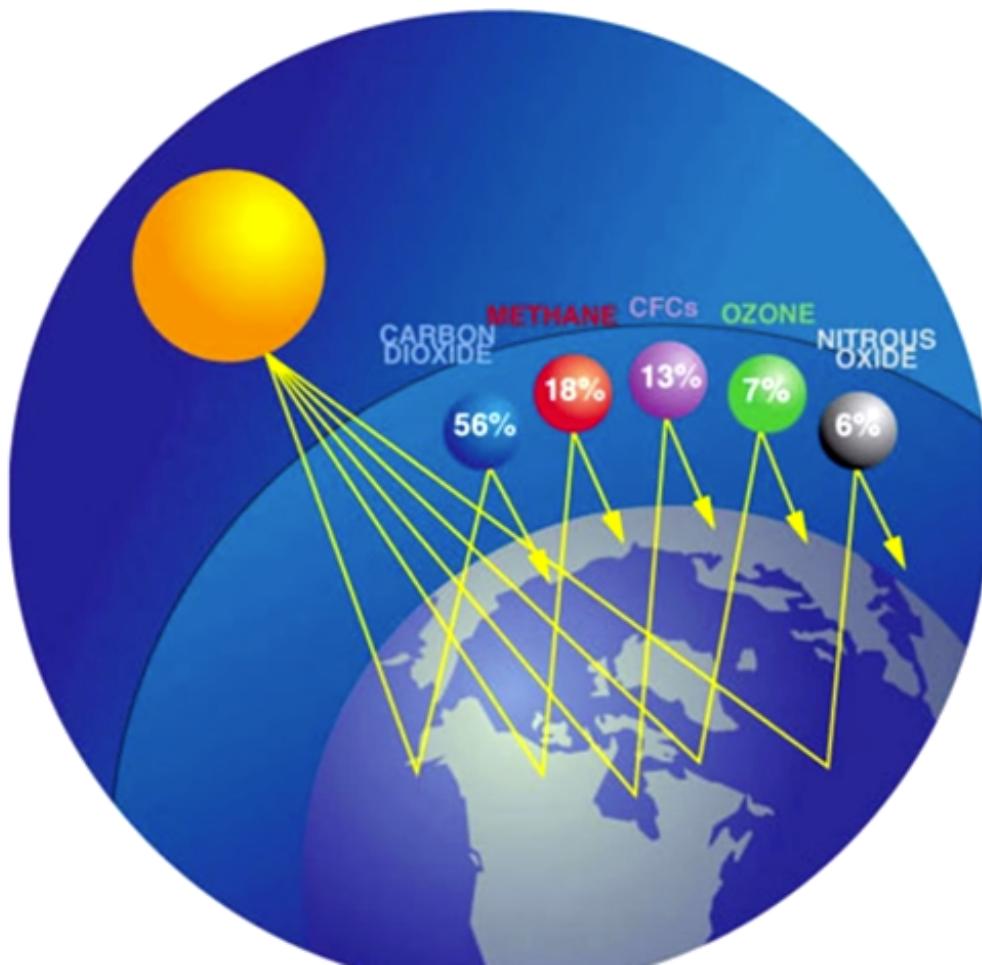
Jan-Dec Global Mean Temperature over Land & Ocean



CHAPTER 3

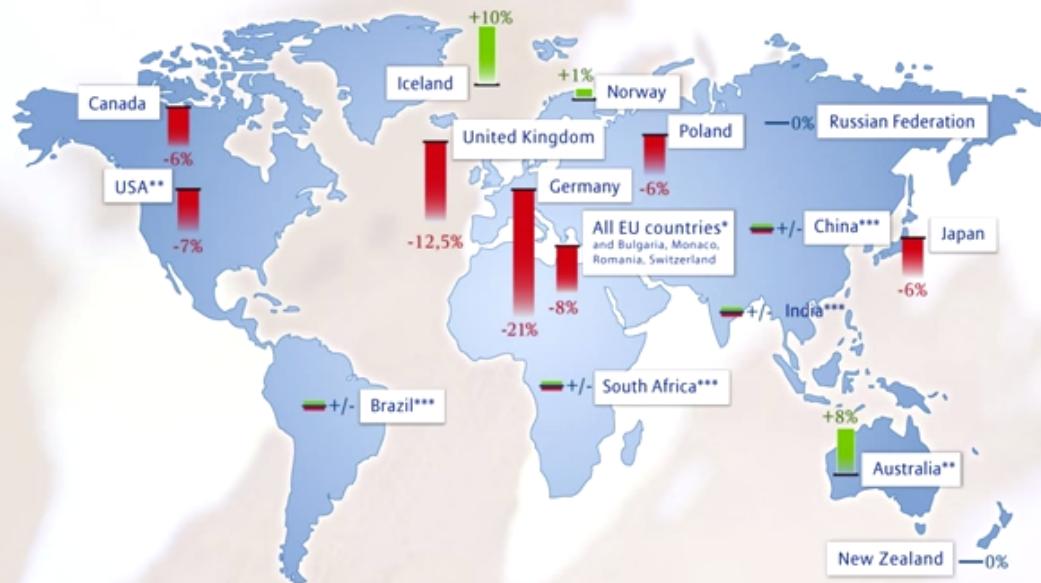
No graphs

CHAPTER 4



CO₂ Reduction

Emission Targets for Selected Countries (Kyoto Protocol)



■ Where to reduce emissions until 2012

■ Where an increase of emissions is permitted until 2012

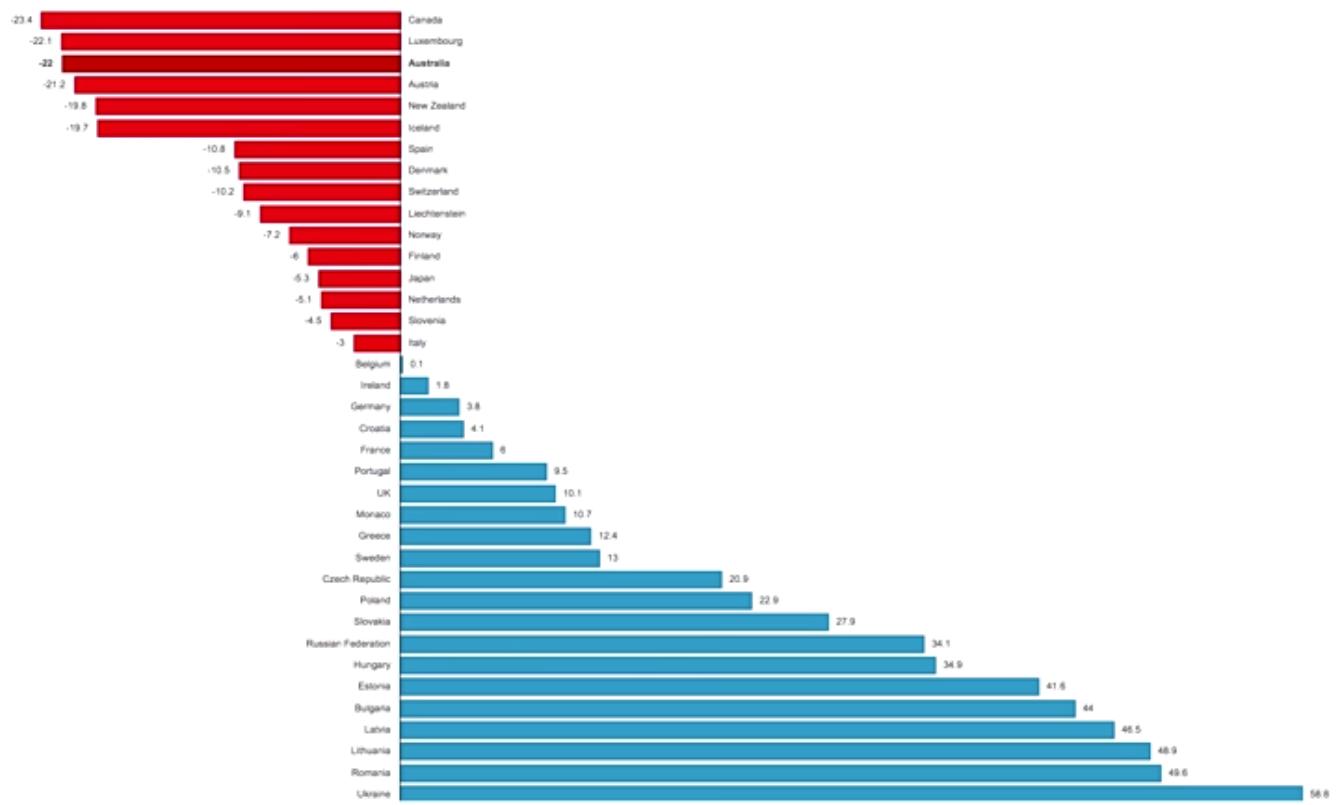
* The EU countries have redistributed their reductions commitments in a so-called burden-sharing commitment.

** The USA and Australia have not ratified the protocol.

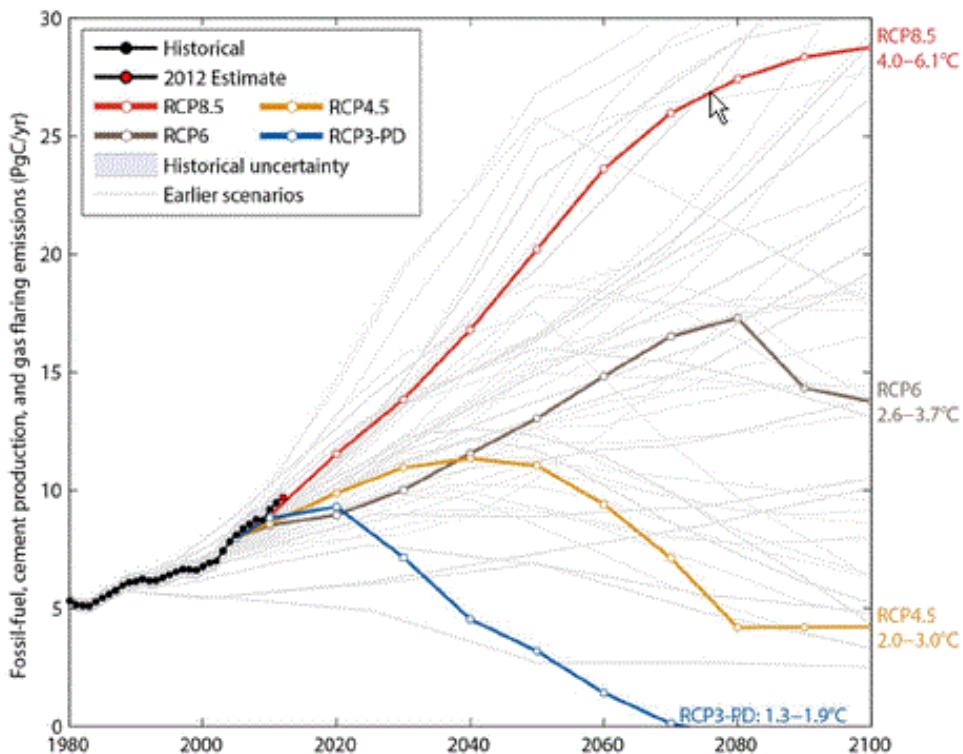
*** No restrictions under the Kyoto Protocol

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Kyoto successes (blue) and failures (red)

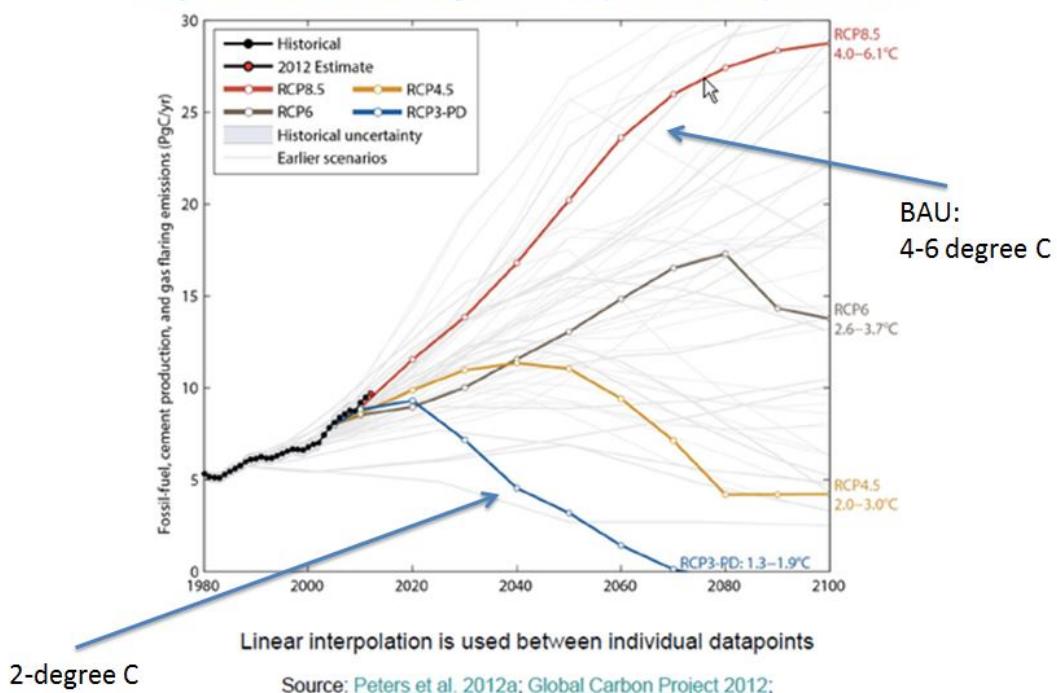


CHAPTER 5



Emissions are heading to a 4.0–6.1°C “likely” increase in temperature

Large and sustained mitigation is required to keep below 2°C



Source: [Peters et al. 2012a](#); [Global Carbon Project 2012](#);