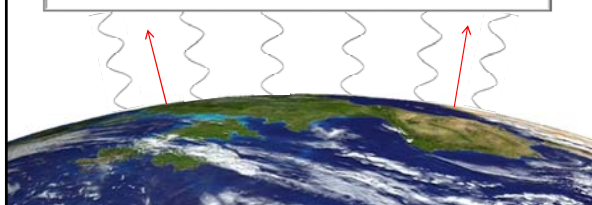


Atmospheric Temperature

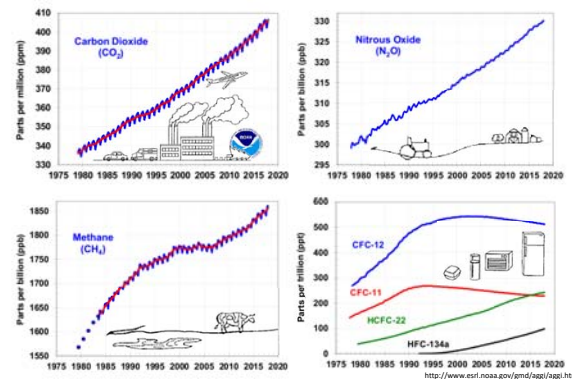
Greenhouse gasses are the right molecular size to trap infrared radiation emitted (generated, not reflected) from Earth's surface.

CO₂, H₂O, CFC, N₂O, CH₄, O₃



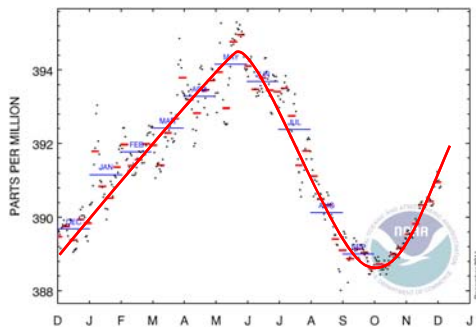
8

The concentration of atmospheric greenhouse gases continues to increase.



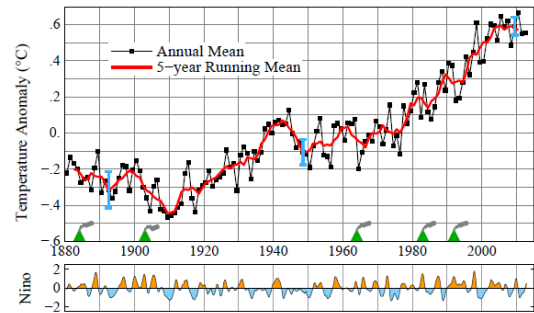
12

Atmospheric CO₂ levels are lower during periods of elevated photosynthesis.



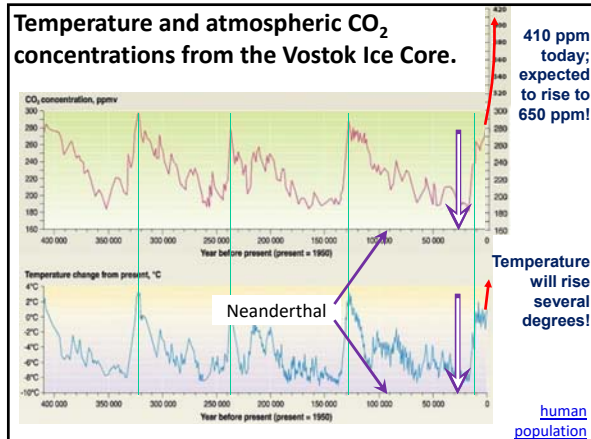
17

Global land-ocean temperature anomalies show a rise of about 1°C in the past 100 years.



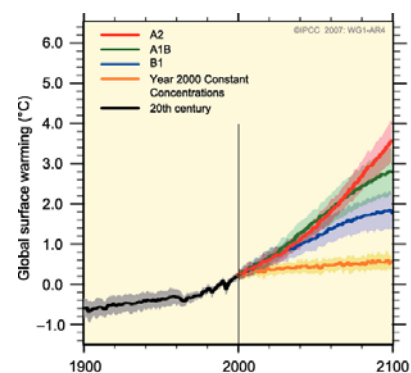
20

Temperature and atmospheric CO₂ concentrations from the Vostok Ice Core.



30

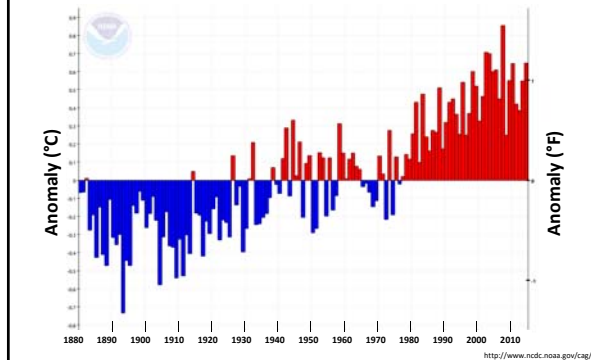
All models indicate a warmer future.



36

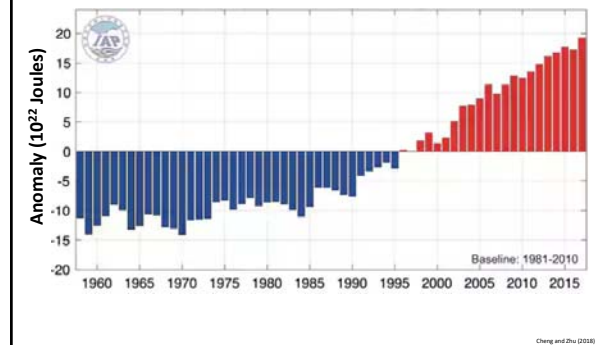
Atmospheric Temperature

Global land and ocean temperatures continue to increase (1880 – 2014).



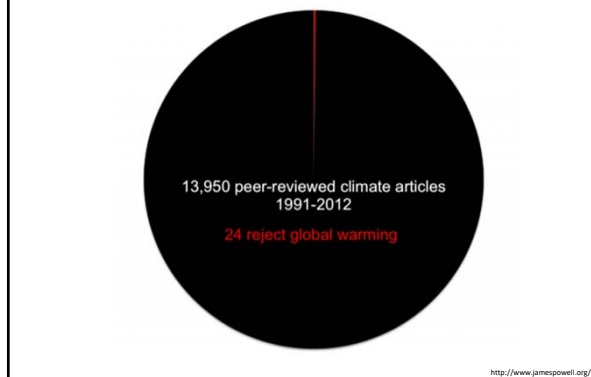
40

Global ocean heat content (0 – 2000 m) continues to increase.



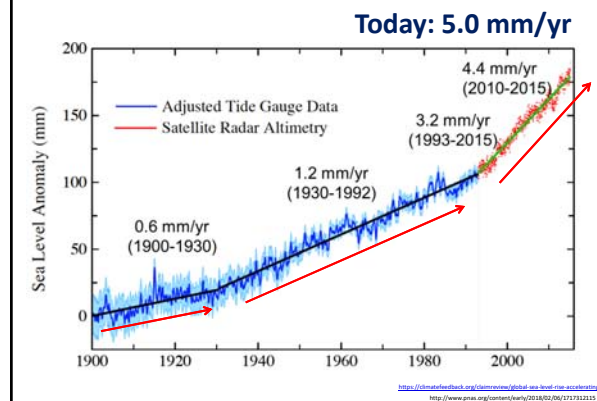
41

Few peer-reviewed articles reject global warming.



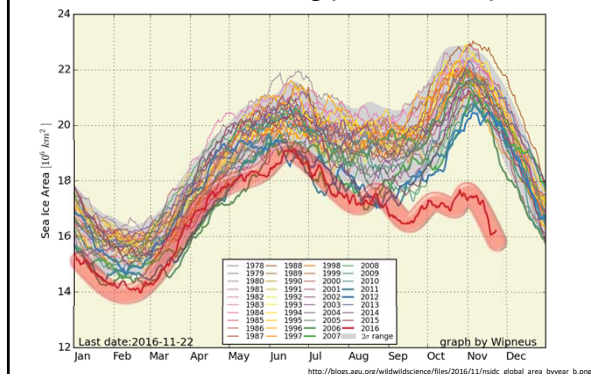
53

Sea-levels continue to rise at an increasing rate.



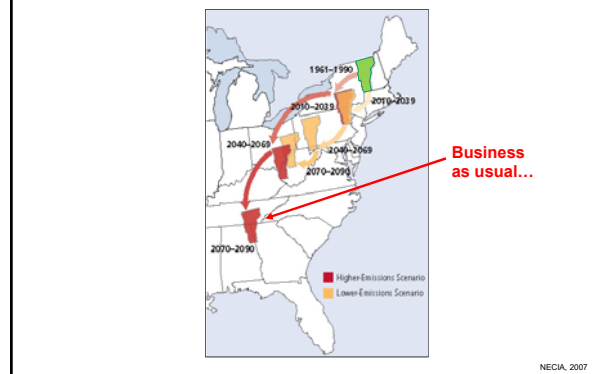
60

Global sea ice area continues to shrink; the loss of sea ice in 2016 is astounding (well below 2σ).



90

Climatic belts are shifting; Vermont's weather will change. The question is, how much will it change?



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