



The Latest Climate Science

John Cook

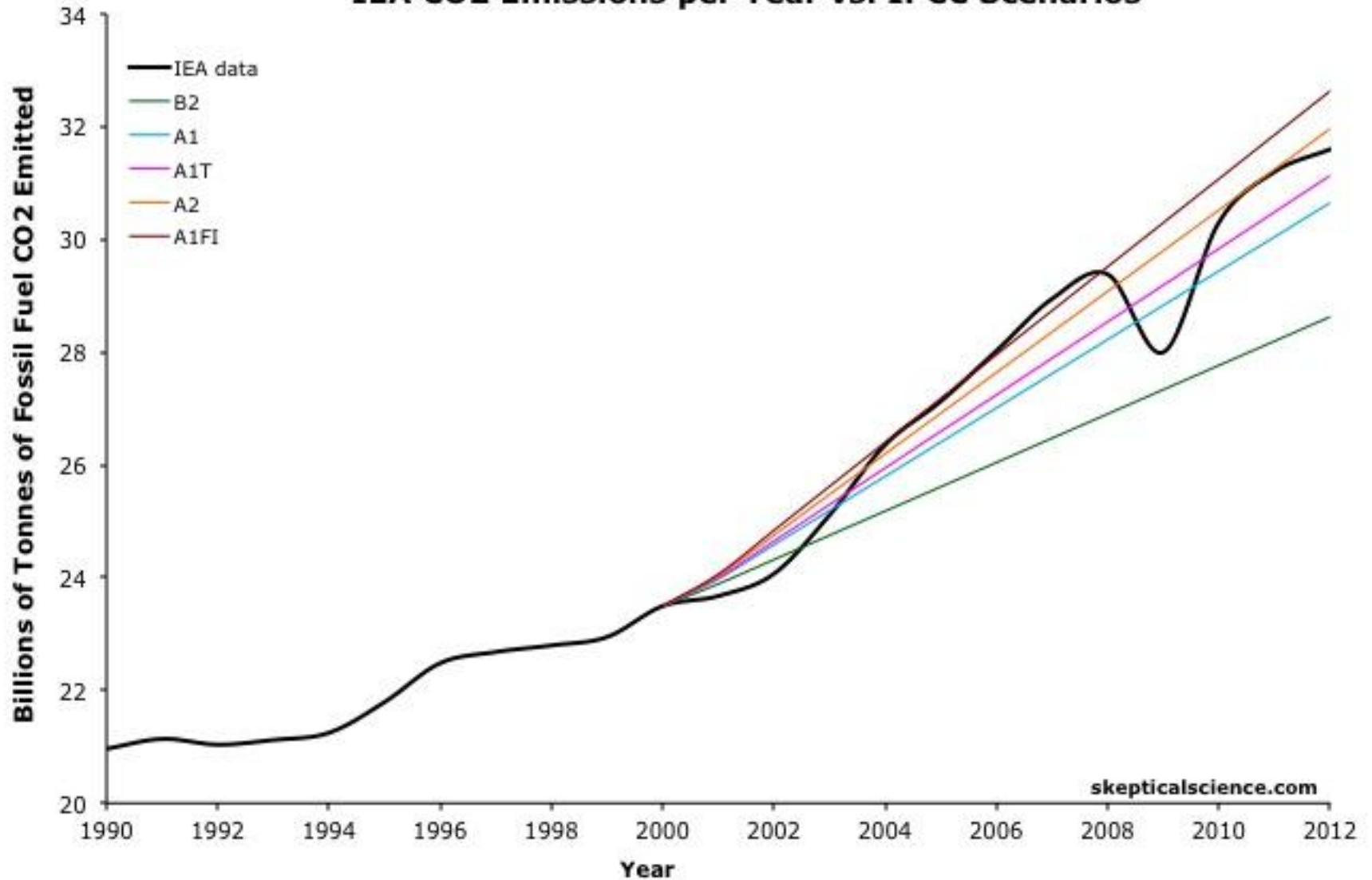
Date: 22/6/2013

Meeting the
challenge of change

gciQ
Global Change Institute

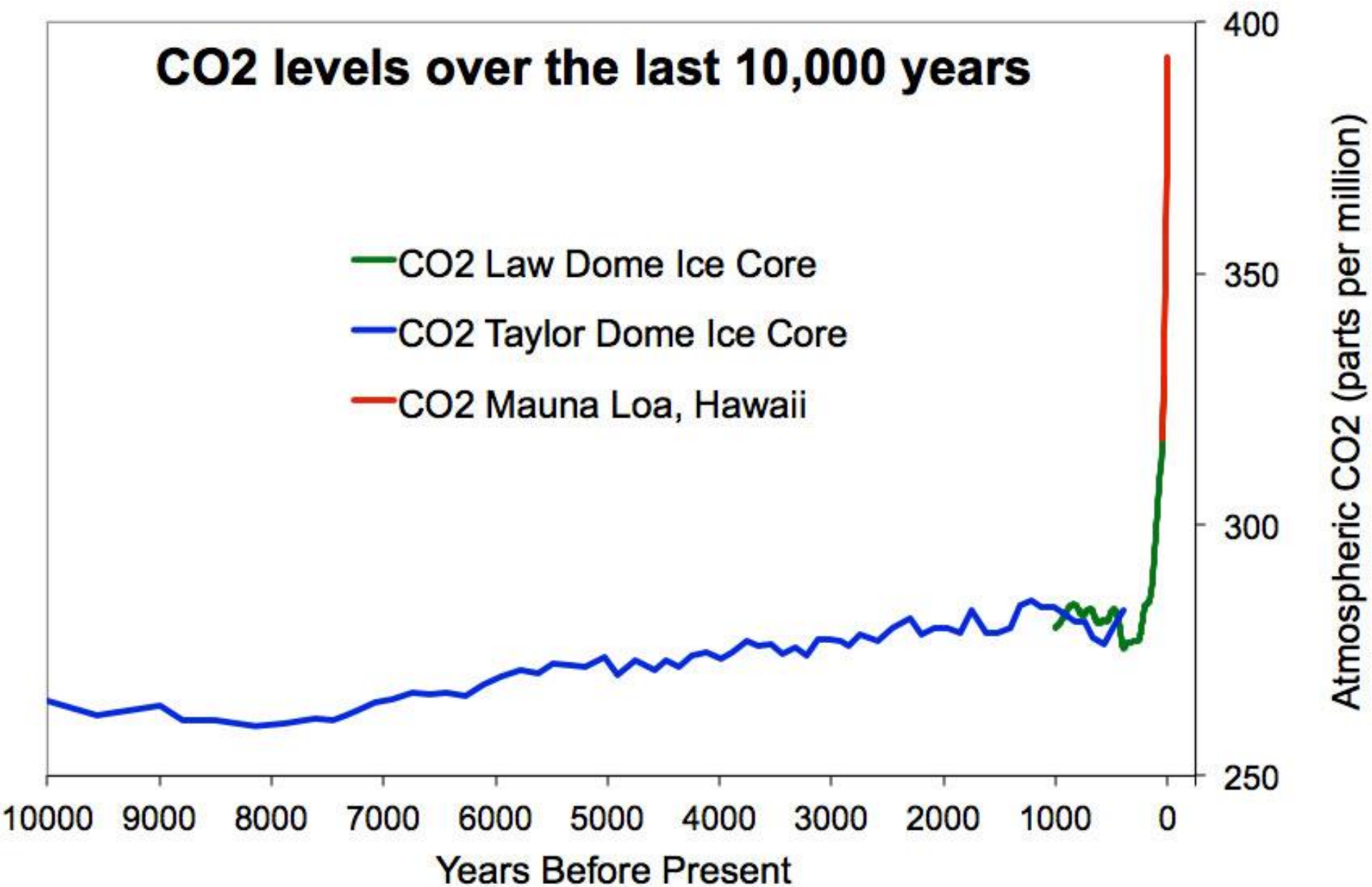
 THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

IEA CO2 Emissions per Year vs. IPCC Scenarios

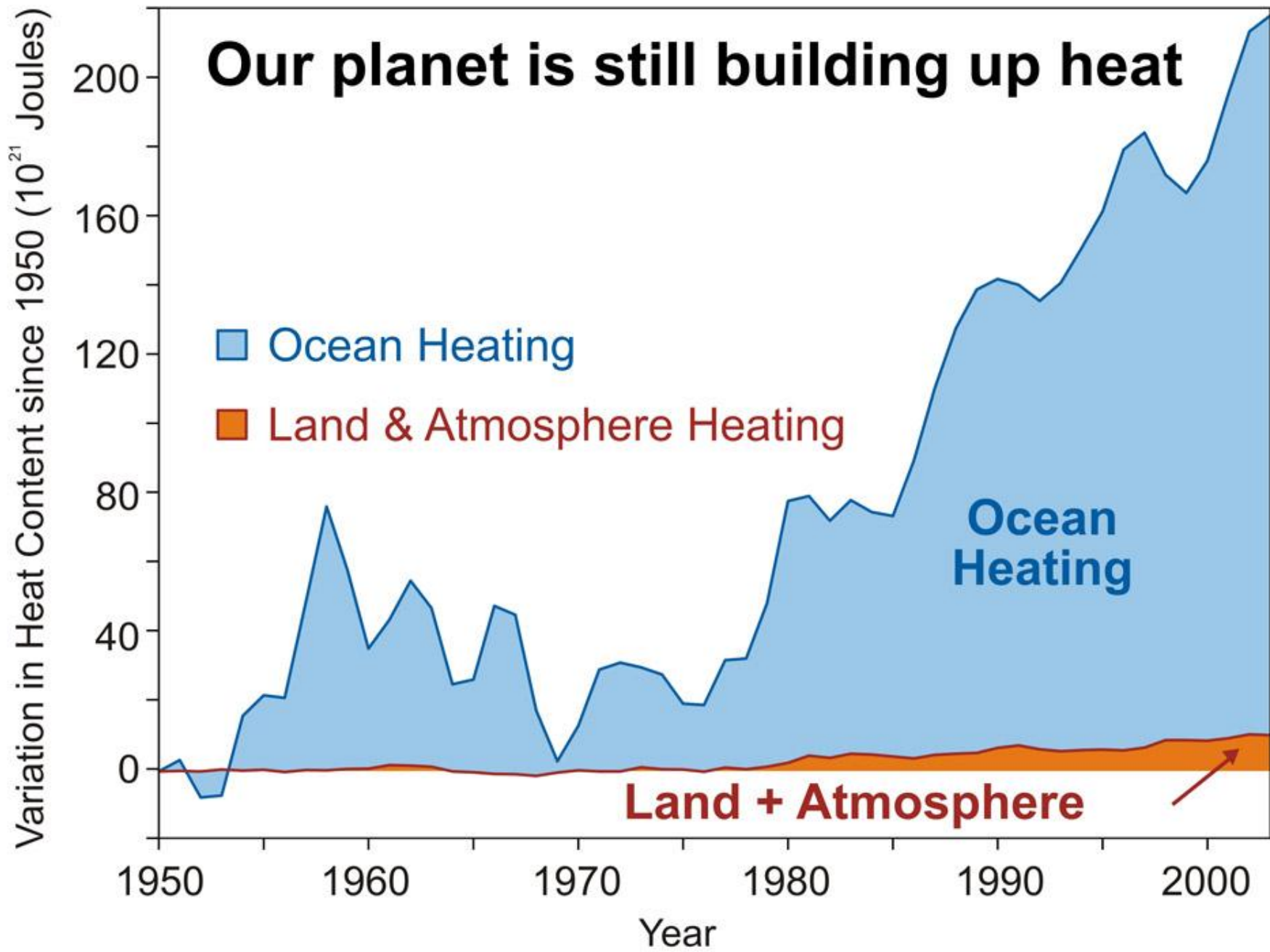


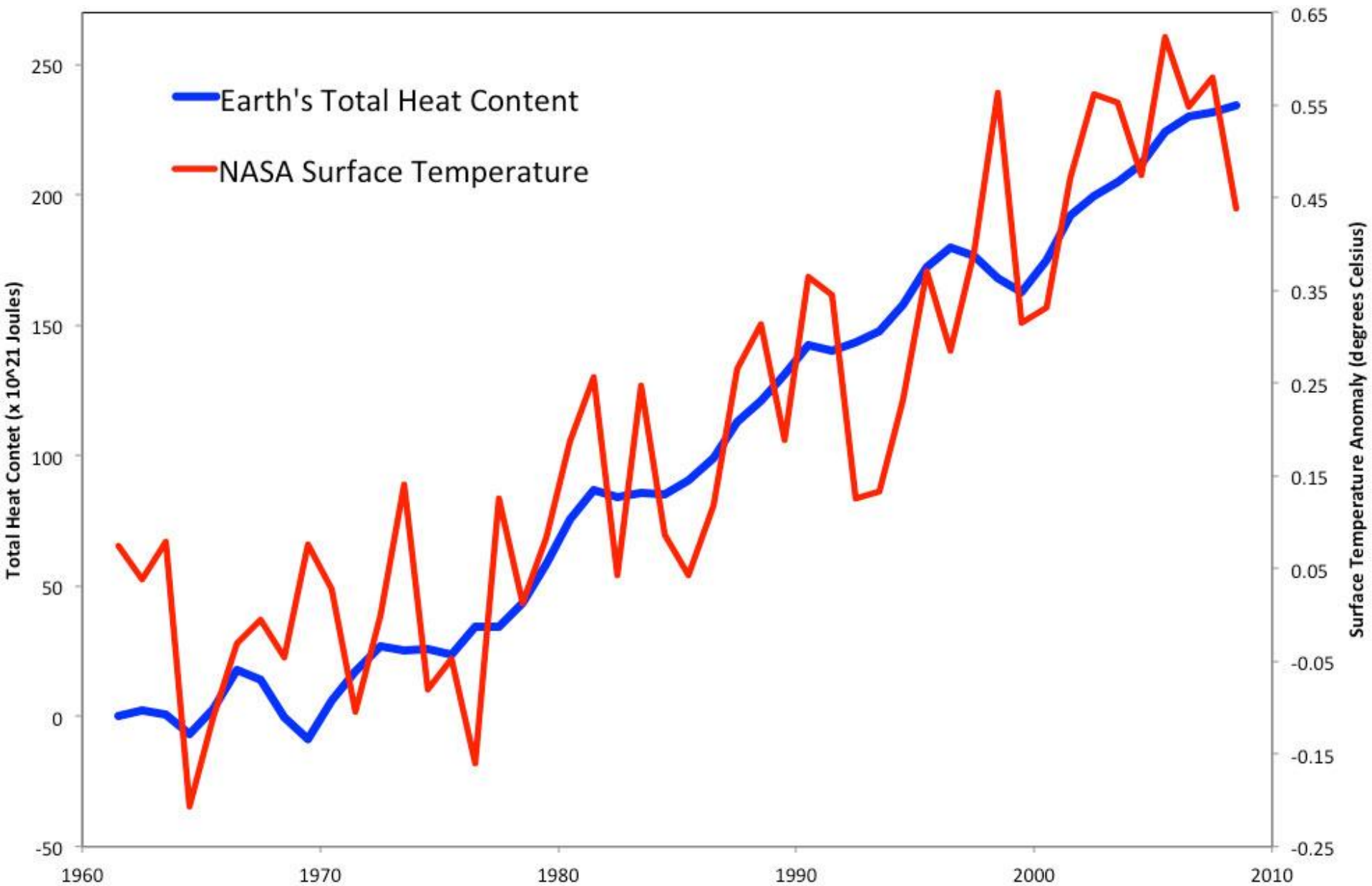
CO2 levels over the last 10,000 years

- CO2 Law Dome Ice Core
- CO2 Taylor Dome Ice Core
- CO2 Mauna Loa, Hawaii



Our planet is still building up heat







Thousands of natural thermometers find warming

 Glaciers

 Humidity


 Snow Cover


 Temperature Over Oceans

 Temperature Over Land


 Sea Level

 Tree-lines shifting poleward and upward

 Ice Sheets


 Spring coming earlier

 Sea Ice

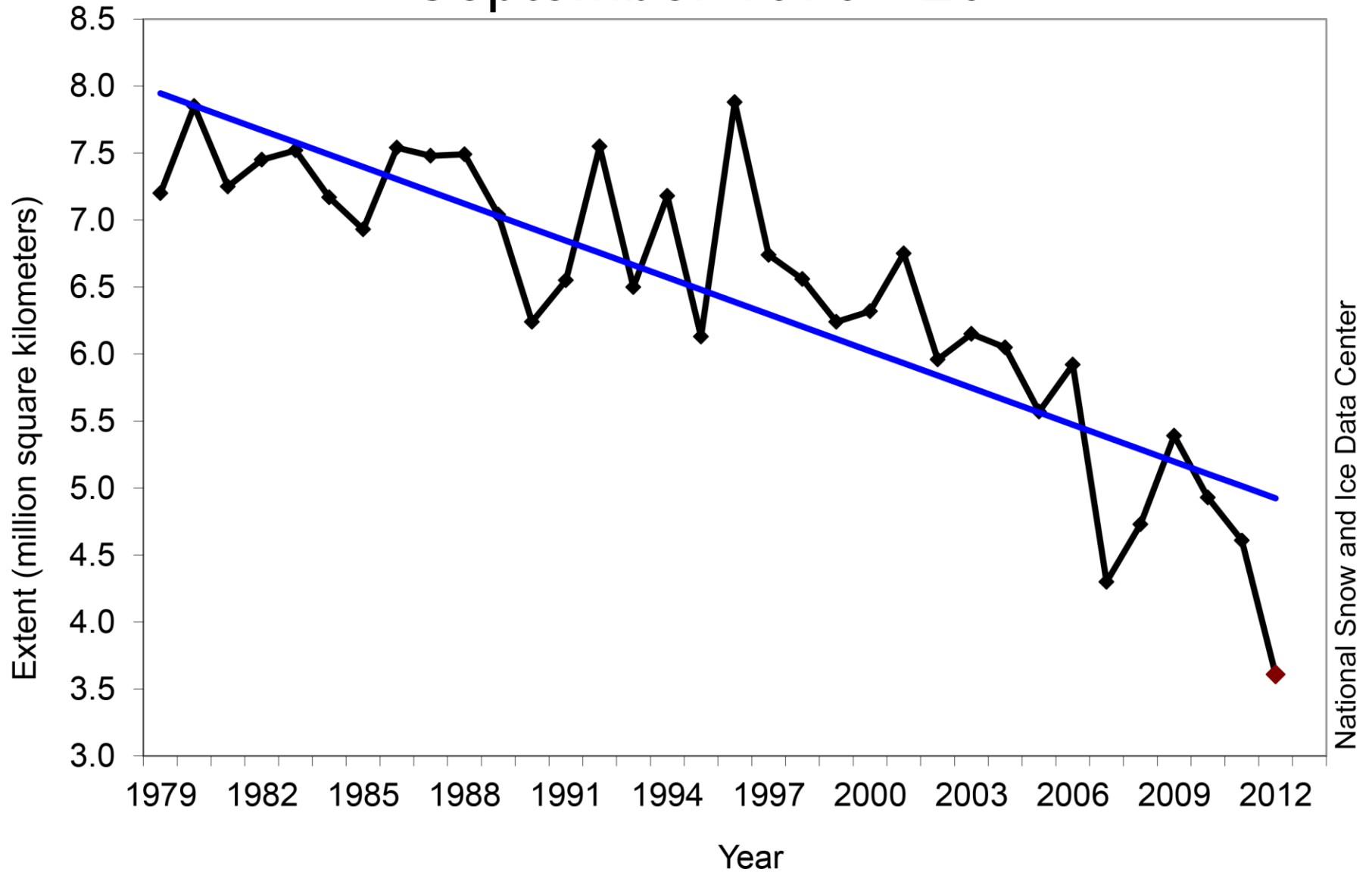
 Species breeding earlier

 Ocean Warming

 Species migrating poleward and upward

 Permafrost retreating poleward

Average Monthly Arctic Sea Ice Extent September 1979 - 2012



National Snow and Ice Data Center

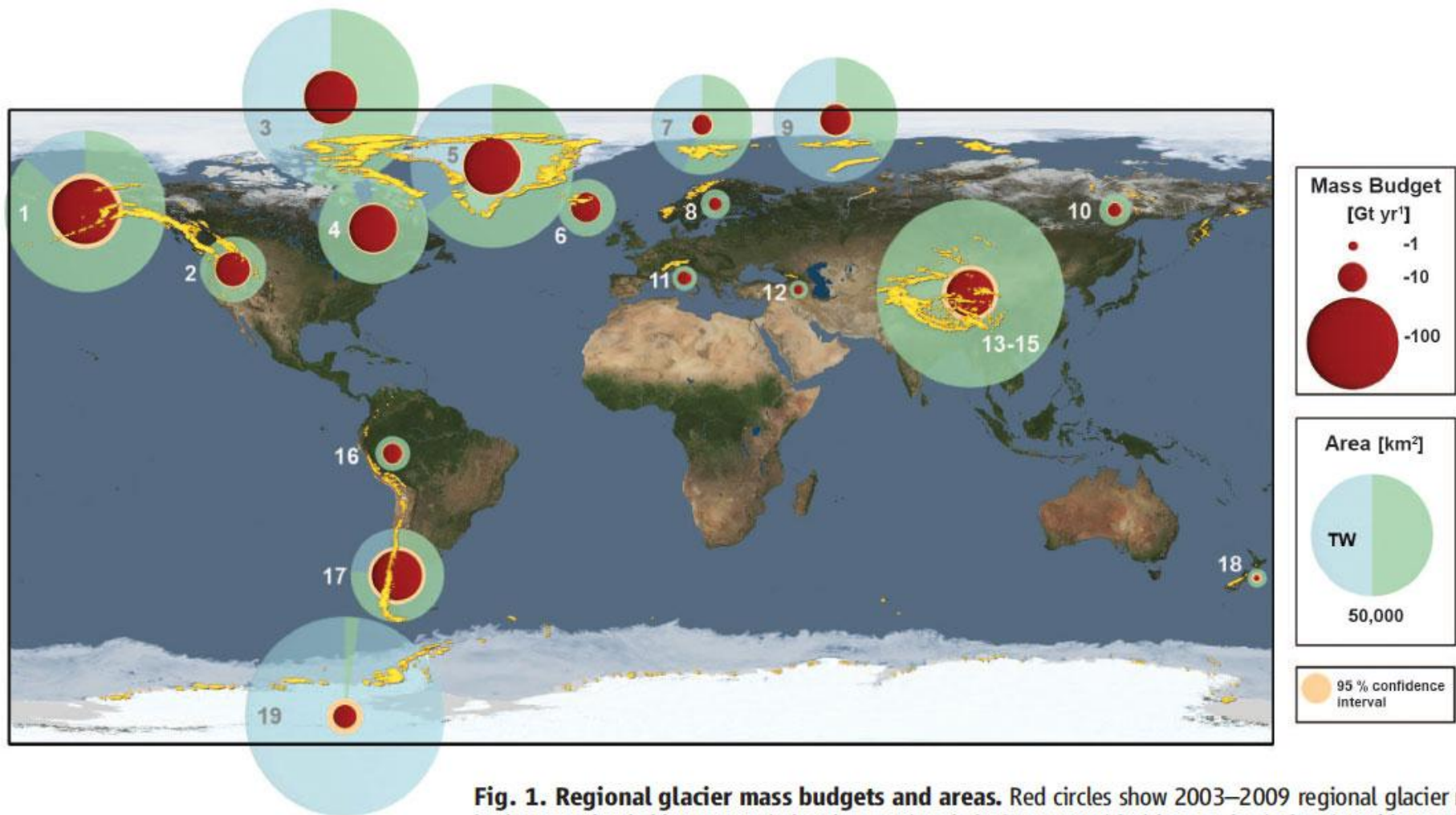
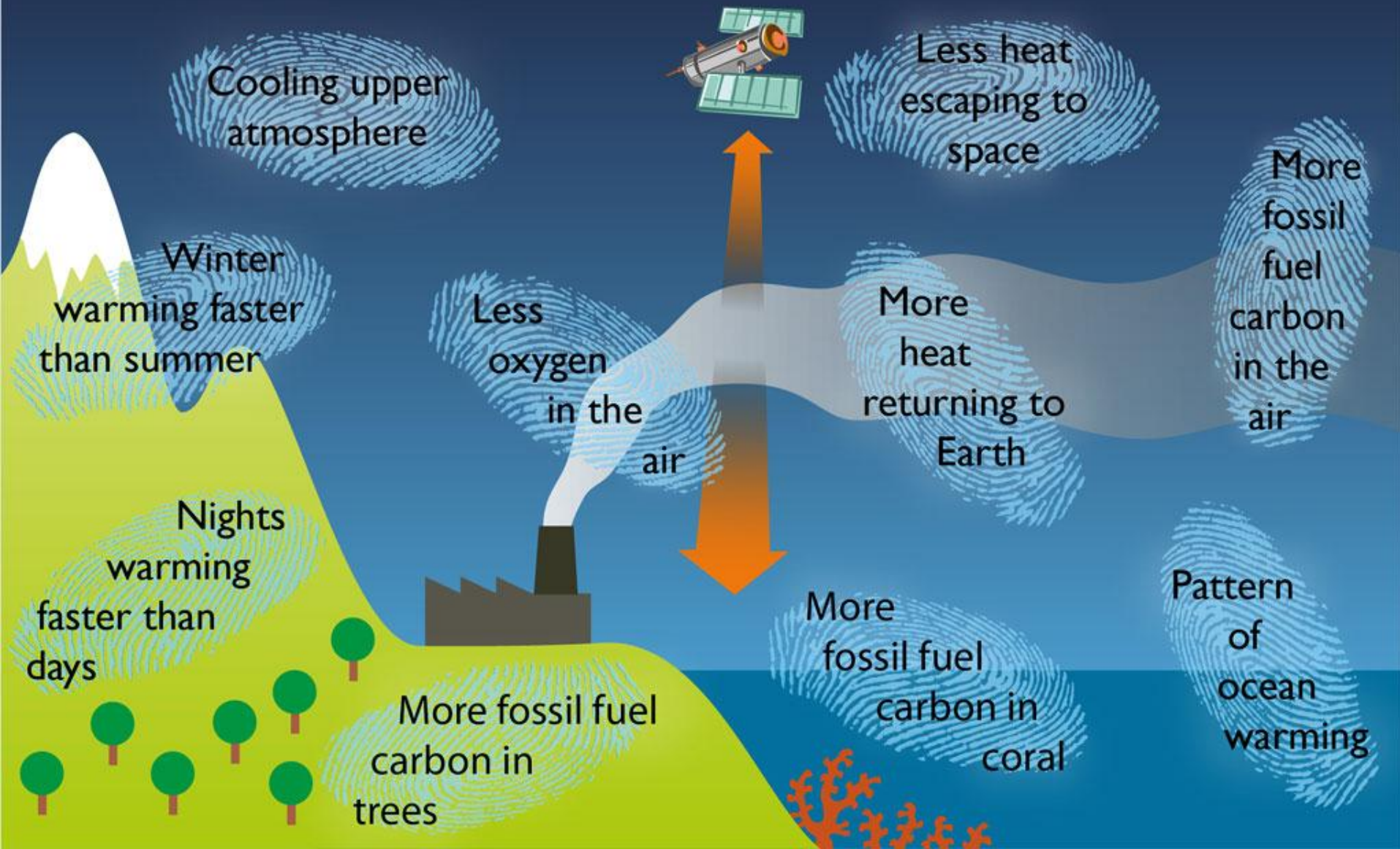
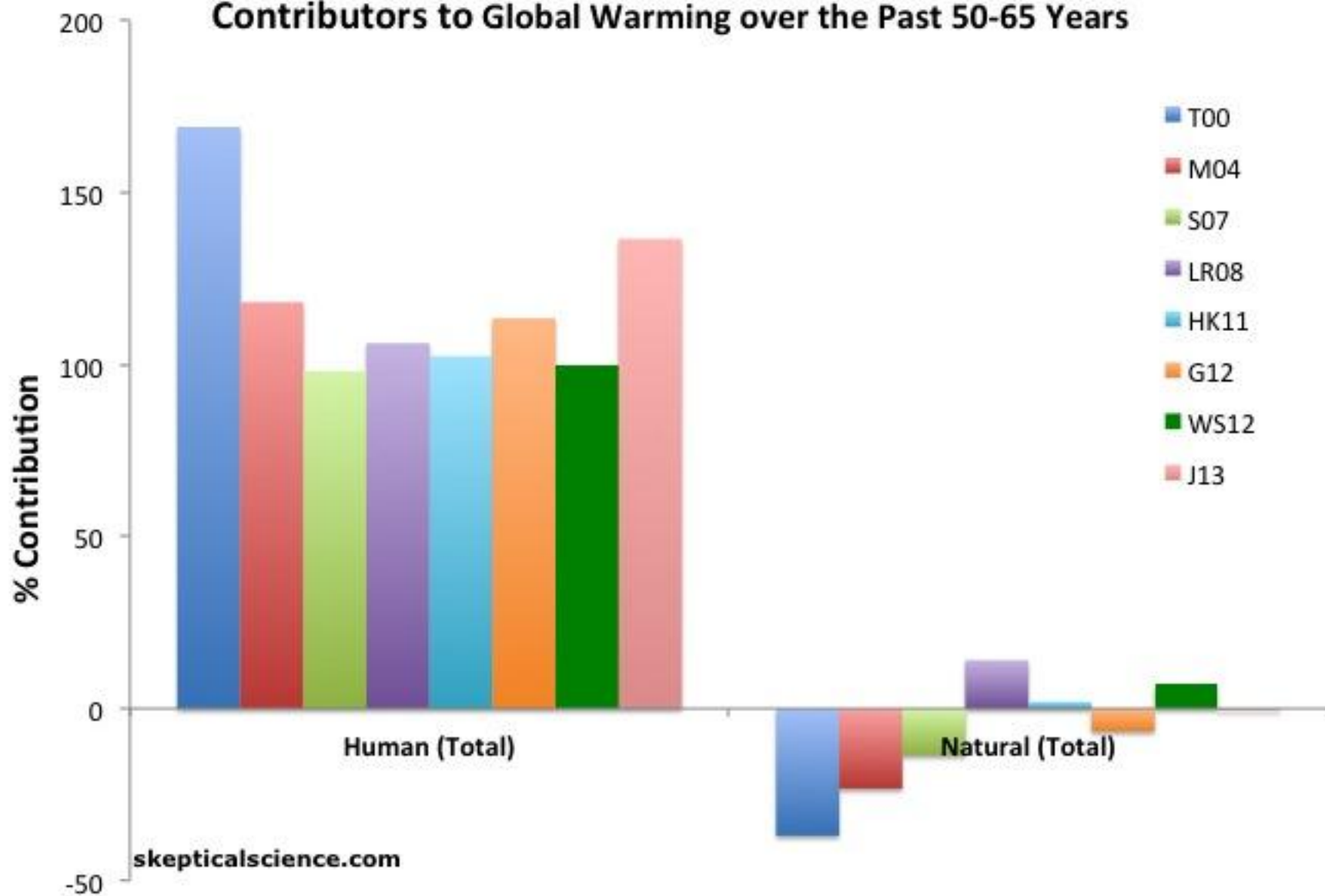


Fig. 1. Regional glacier mass budgets and areas. Red circles show 2003–2009 regional glacier mass budgets, and pale blue/green circles show regional glacier areas with tidewater basin fractions (the extent of ice flowing to termini in the ocean) in blue shading (Table 1). Peach-colored halos surrounding red circles show the 95% CI in mass change estimates, but can only be seen in regions that have large uncertainties.

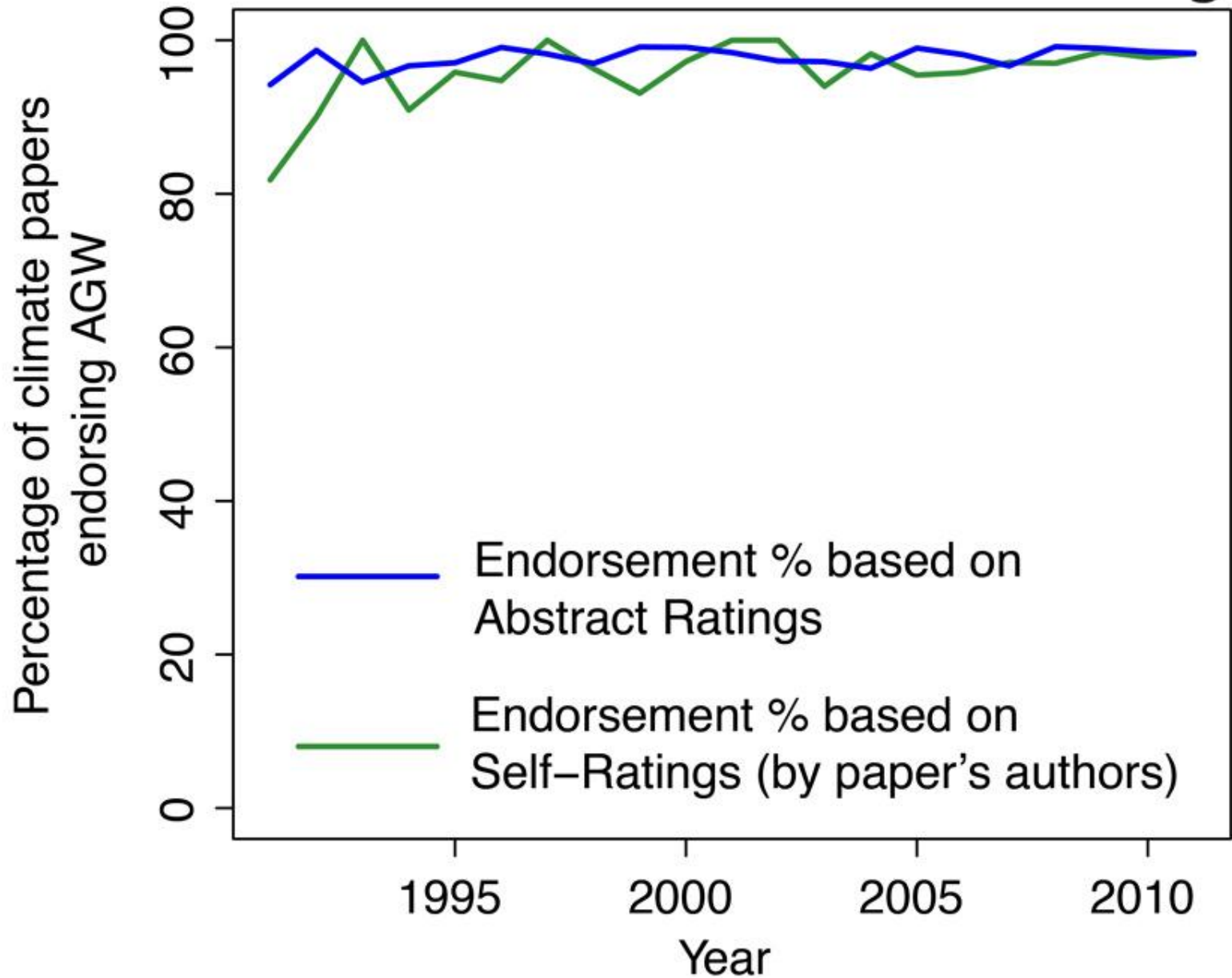
Human fingerprints are all over our climate

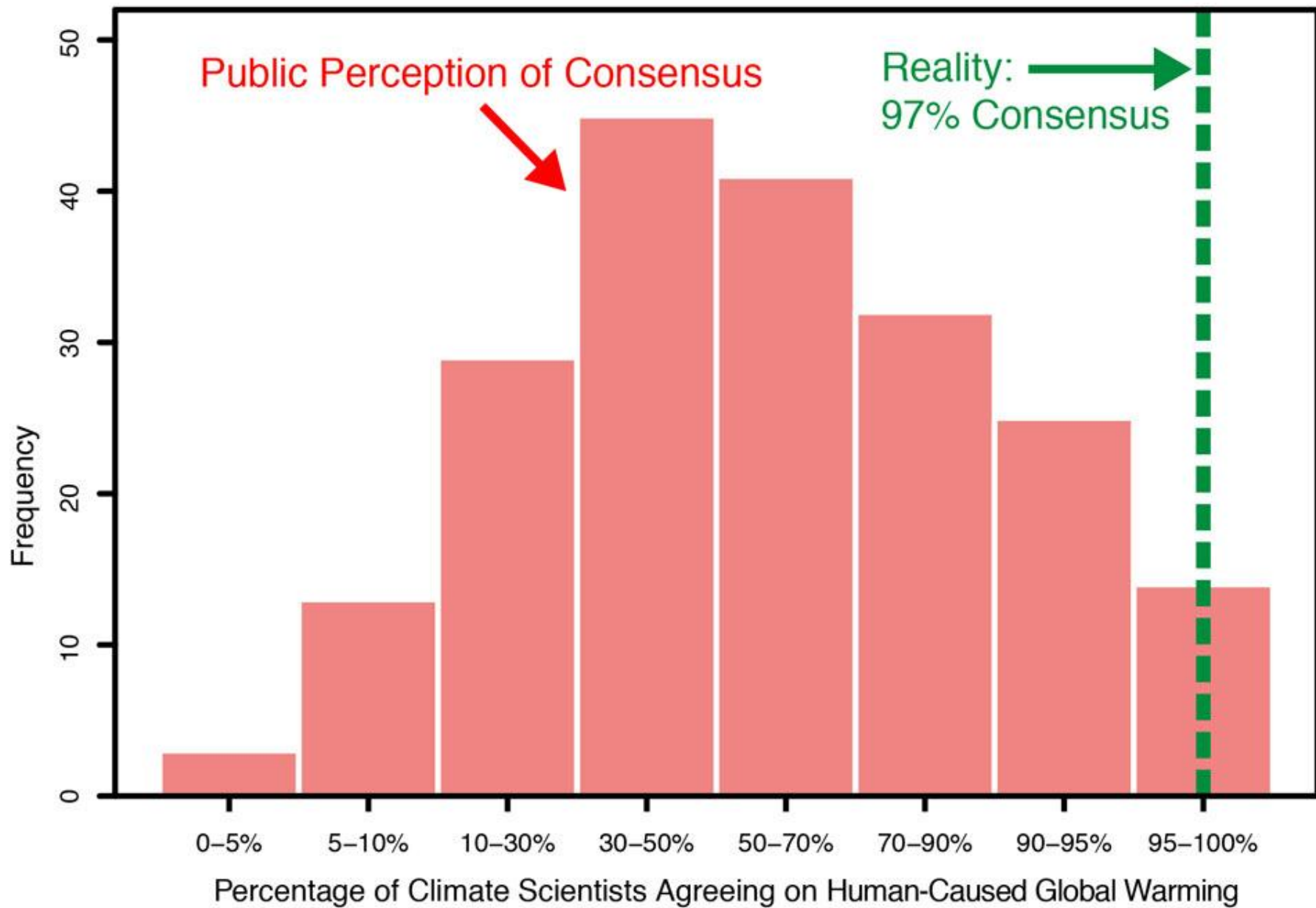


Contributors to Global Warming over the Past 50-65 Years



Level of Endorsement of Human-Caused Global Warming





HELP CLOSE **THE CONSENSUS GAP**

THE PUBLIC PERCEPTION



A pie chart divided into two sections: a red section representing 45% and a dark blue section representing 55%. The number '45%' is written in large white font across the red section.

45%

THINK THERE IS
SCIENTIFIC AGREEMENT
ON AGW

THE SCIENTIFIC AGREEMENT



A pie chart almost entirely filled with red, with a very thin dark blue slice representing 3%. The number '97%' is written in large white font across the red section.

97%

OF CLIMATE SCIENTISTS
ACTUALLY AGREE
ON AGW

When people don't realize there's a scientific consensus, they're less likely to support climate action. This underscores the importance of closing the consensus gap.



John Cook

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