

Hoe robuust is klimaatkennis?



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KNMI

Workshop KNMI next scenario's,
KNMI, 8 maart 2012

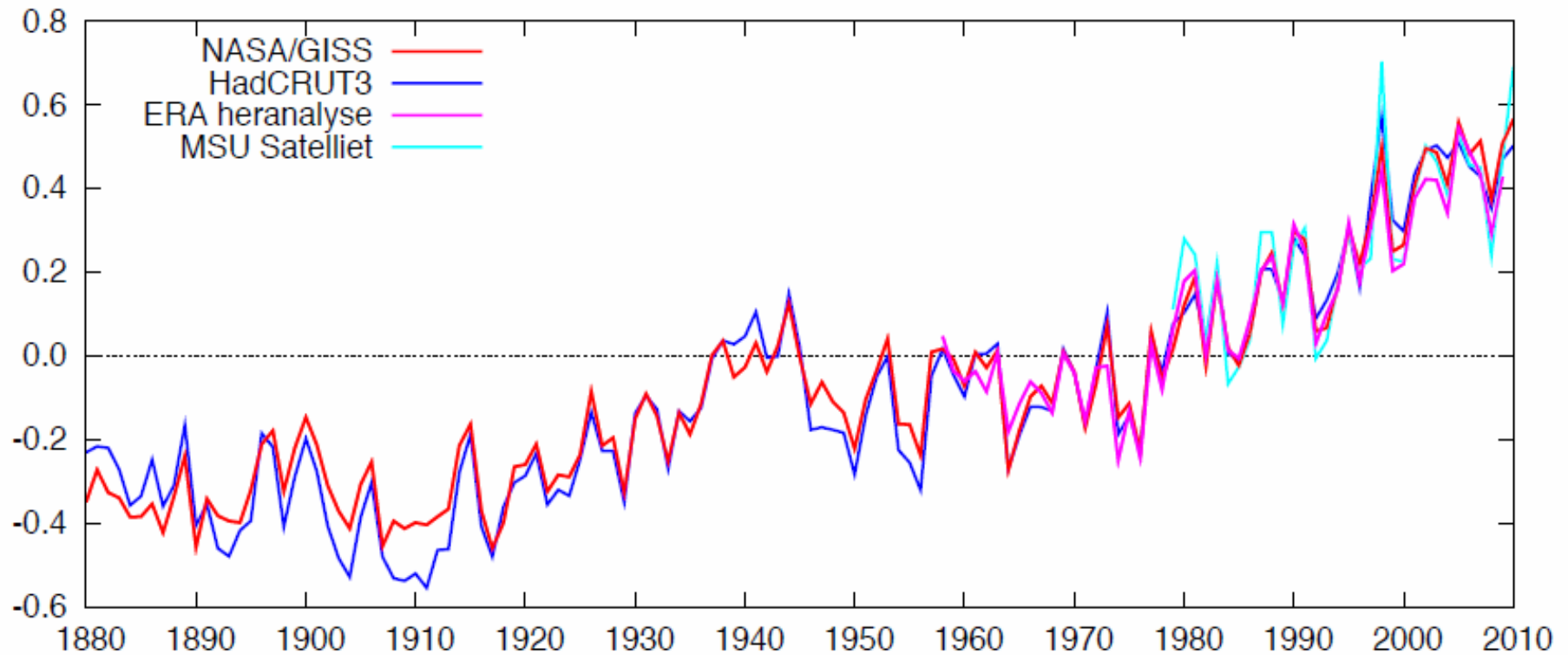
Koninklijk Nederlands Meteorologisch Instituut

Intergovernmental Panel on Climate Change (IPCC)

Werkgroep 1 rapport beschrijft huidige kennis en inzichten op het gebied van:

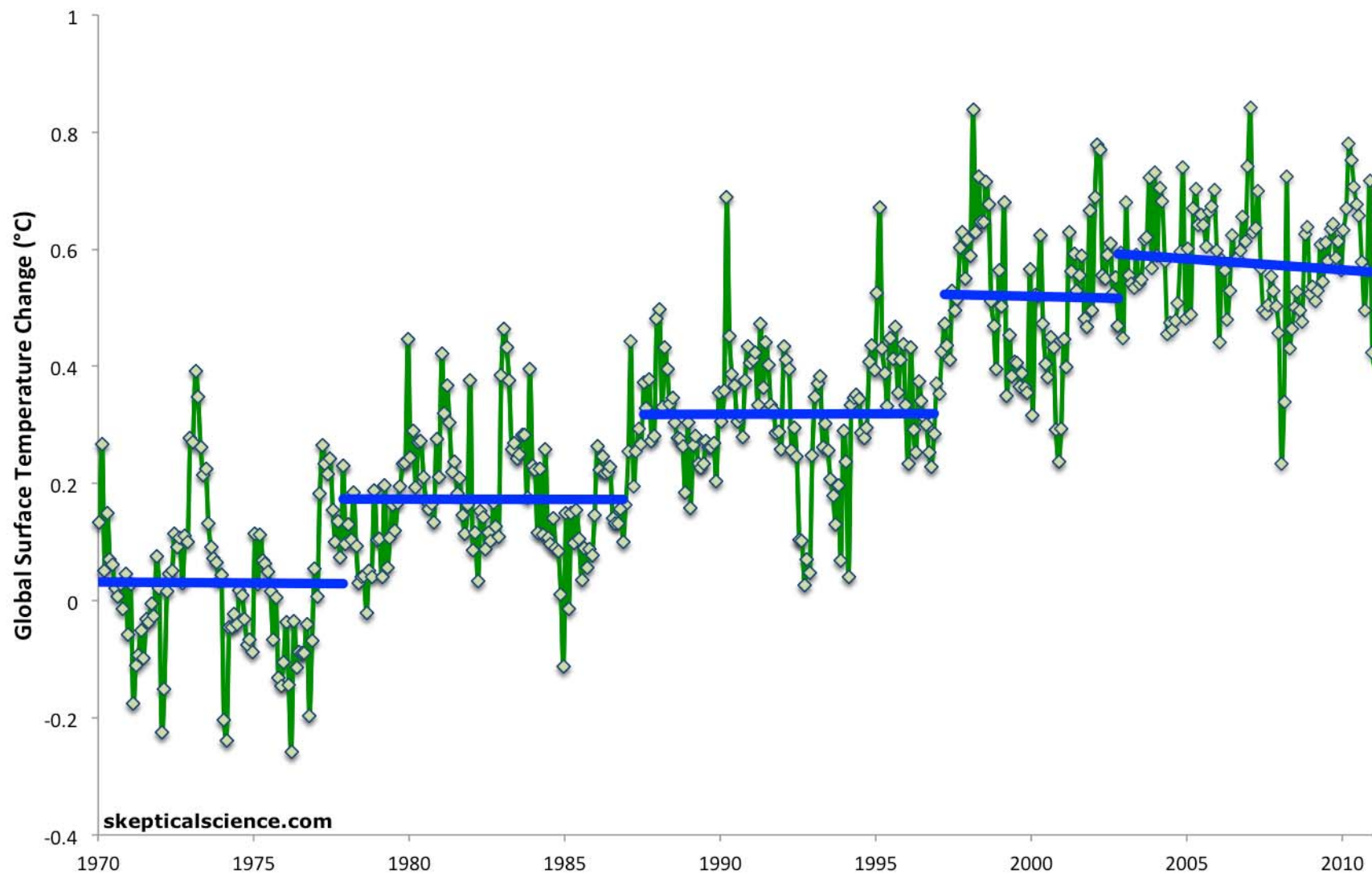
- **Waarnemingen:**
atmosfeer, oceaan, ijsbedekking
- **Inzicht in werking klimaatsysteem:**
terugkoppelingen en kringlopen
- **Oorzaken van klimaatverandering:**
natuurlijk en antropogeen
- **Projecties: mondiaal én regionaal**
gegeven een set van emissiescenario's (WG3)

Global mean surface temperature



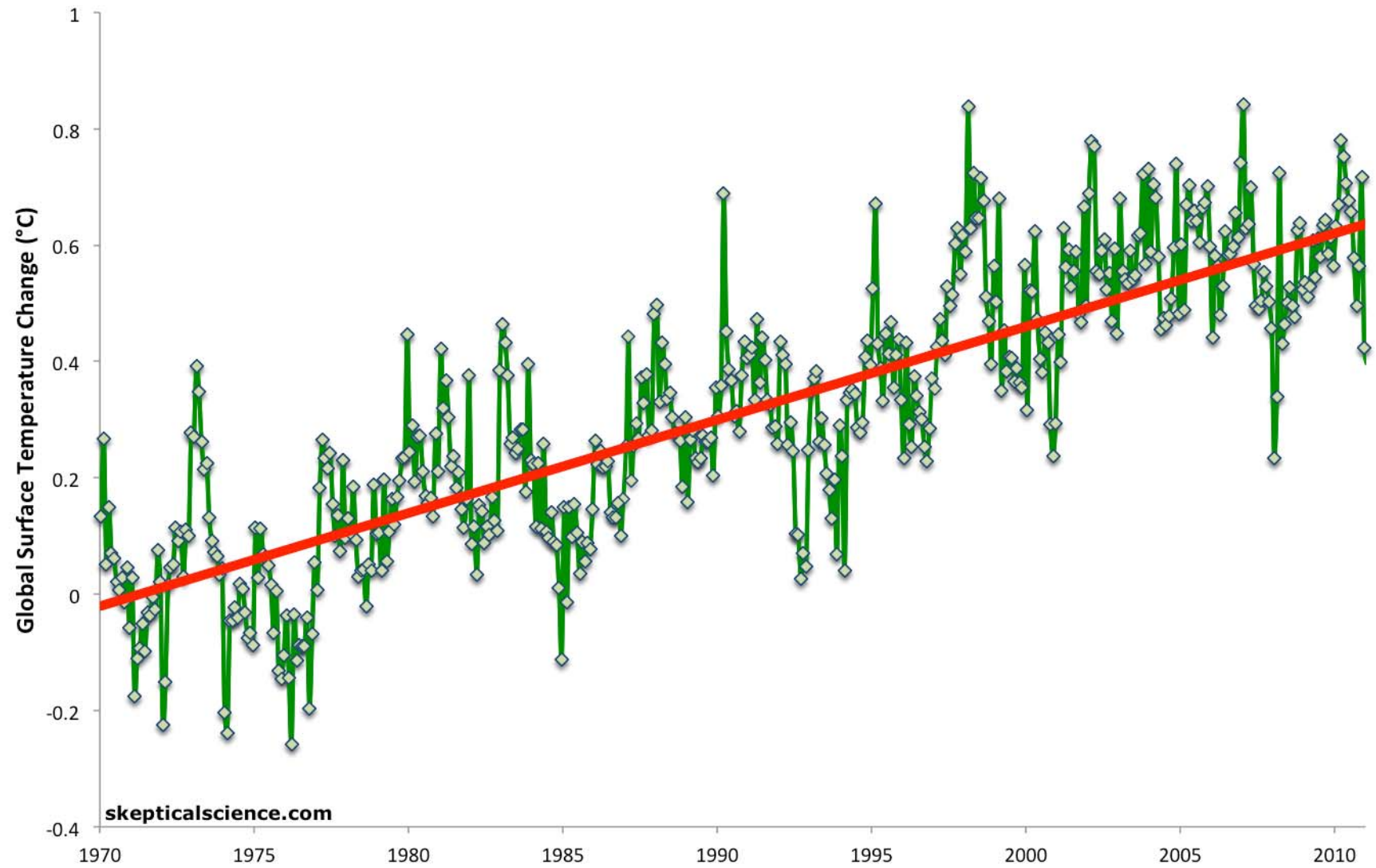
Most of the observed increase in globally averaged temperatures since the mid-20th century is very likely due to observed increase in anthropogenic greenhouse gas concentrations. (IPCC, 2007)

How "Skeptics" View Global Warming



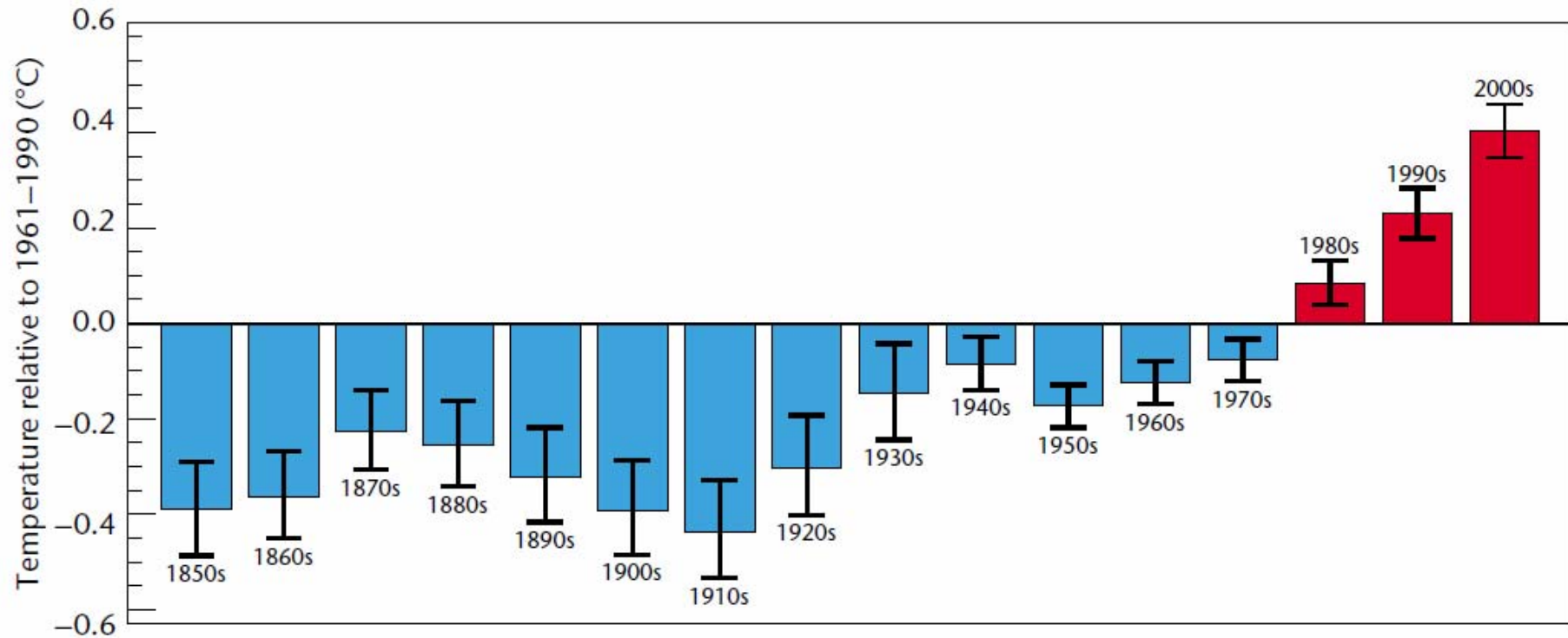
Monthly mean global surface temperature (NOAA NCDC)

How Realists View Global Warming



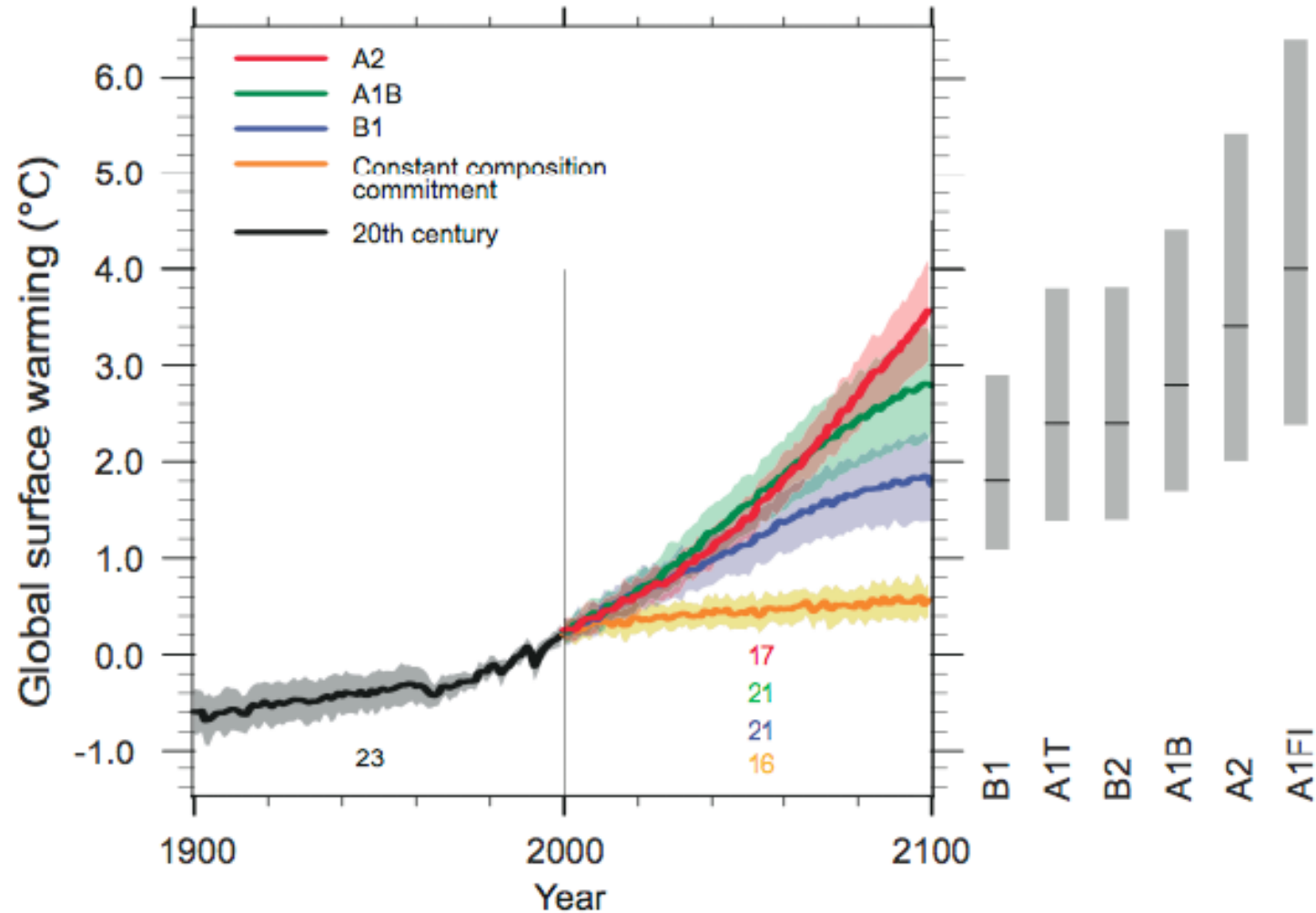
Monthly mean global surface temperature (NOAA NCDC)

2000-2009 warmest decade



Source: Met Office, UK

Temperature projections



Uncertainty: greenhouse gas emissions (scenarios) & climate sensitivity

