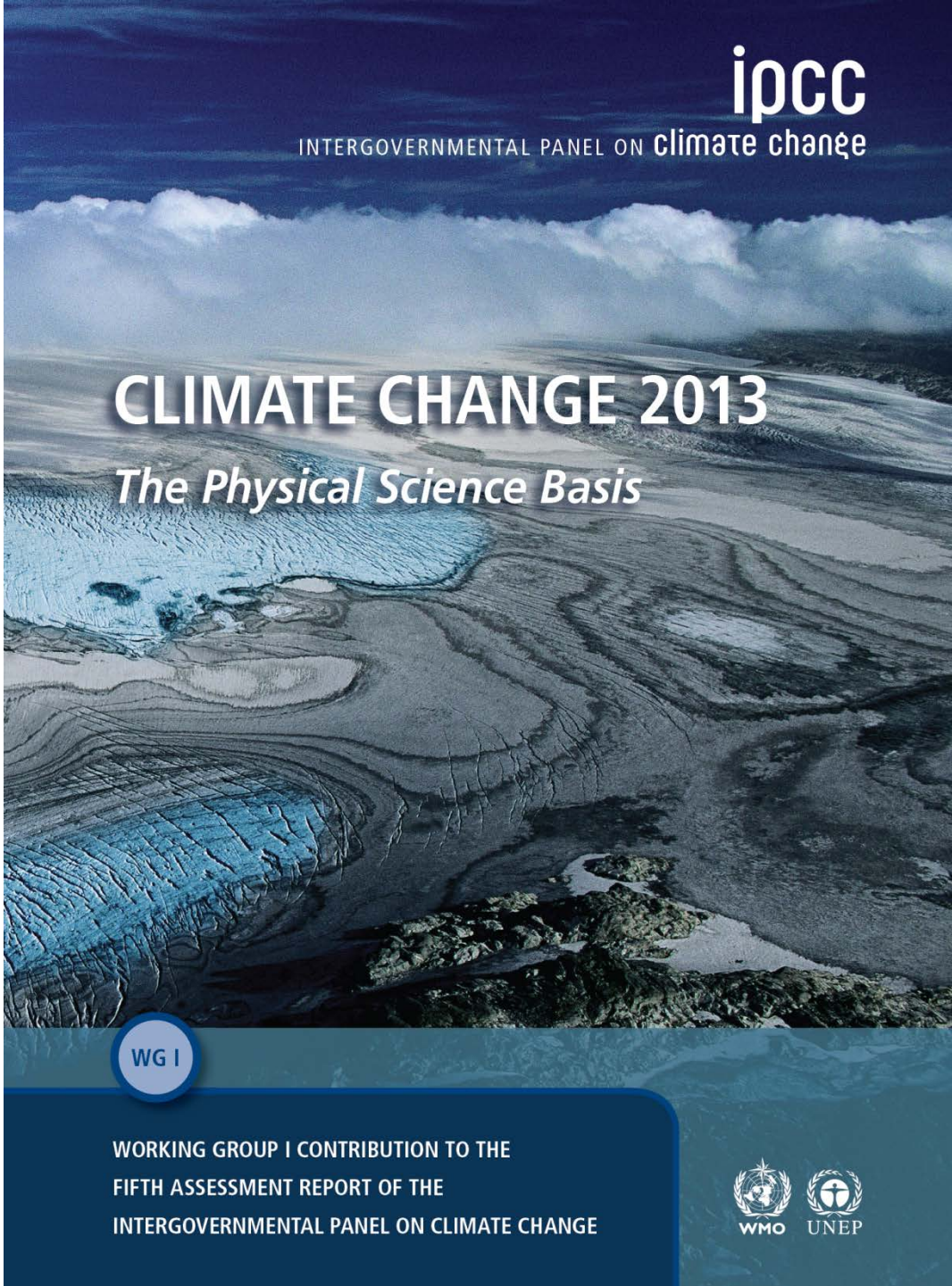
UN Climate Summit 2014
New York
23. September 2014

Thematic Session
Climate Science

Keynote presentation by
Thomas Stocker
Co-Chair IPCC Working Group I



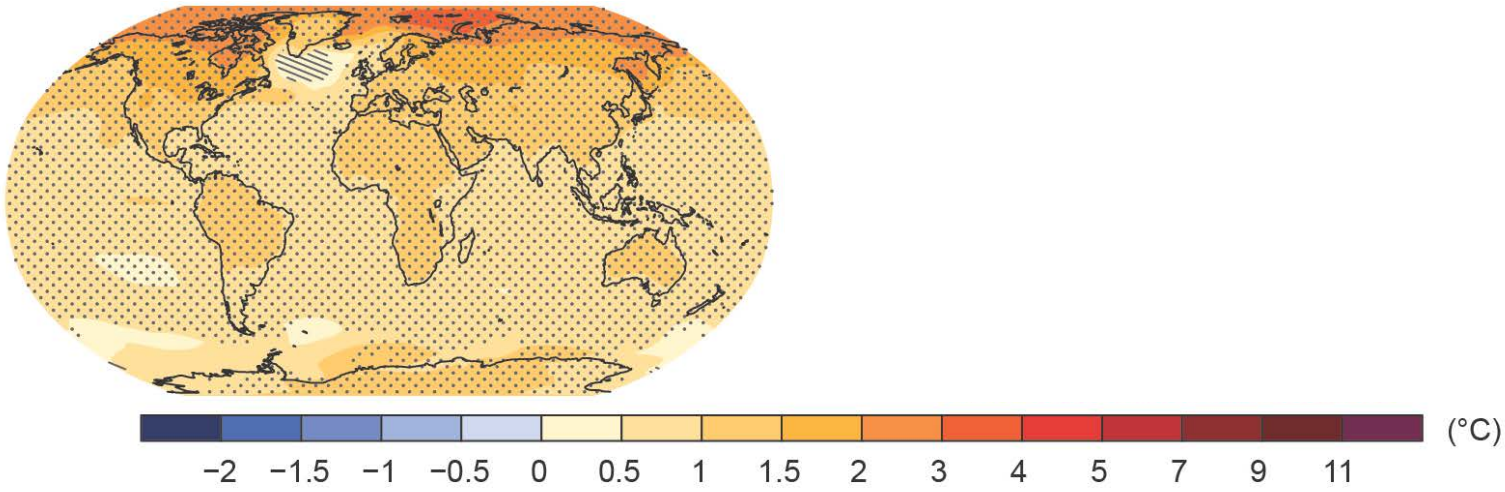
Warming of the climate system is unequivocal

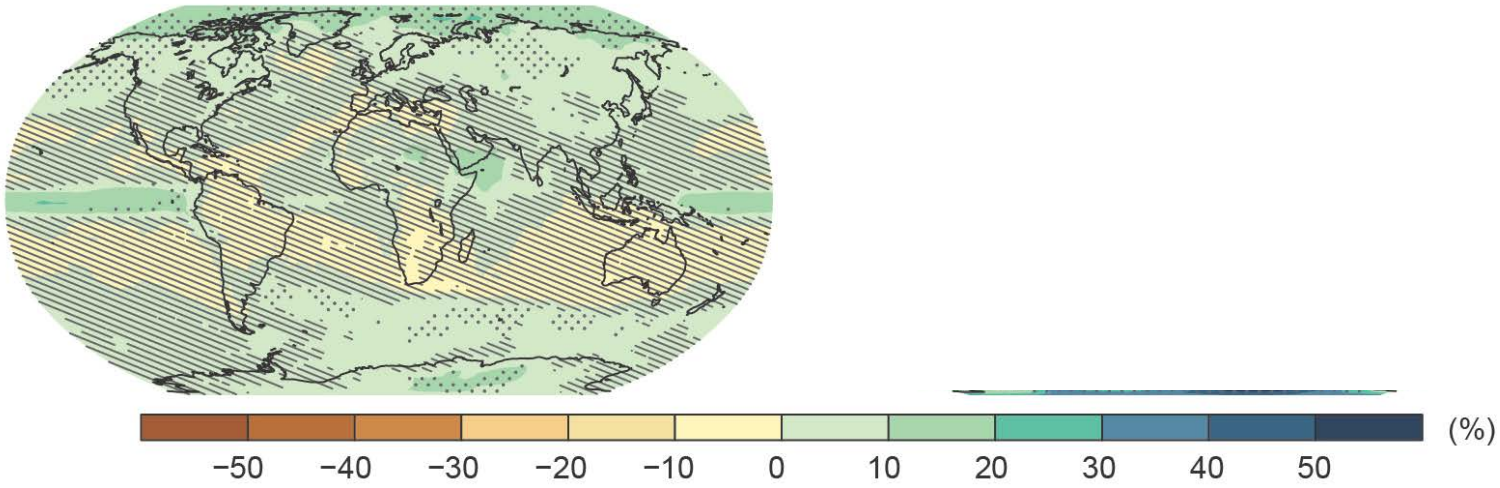
Human influence on the climate system is clear.

Limiting climate change will require substantial and sustained reductions of greenhouse gas emissions.

www.climatechange2013.org

2°C world

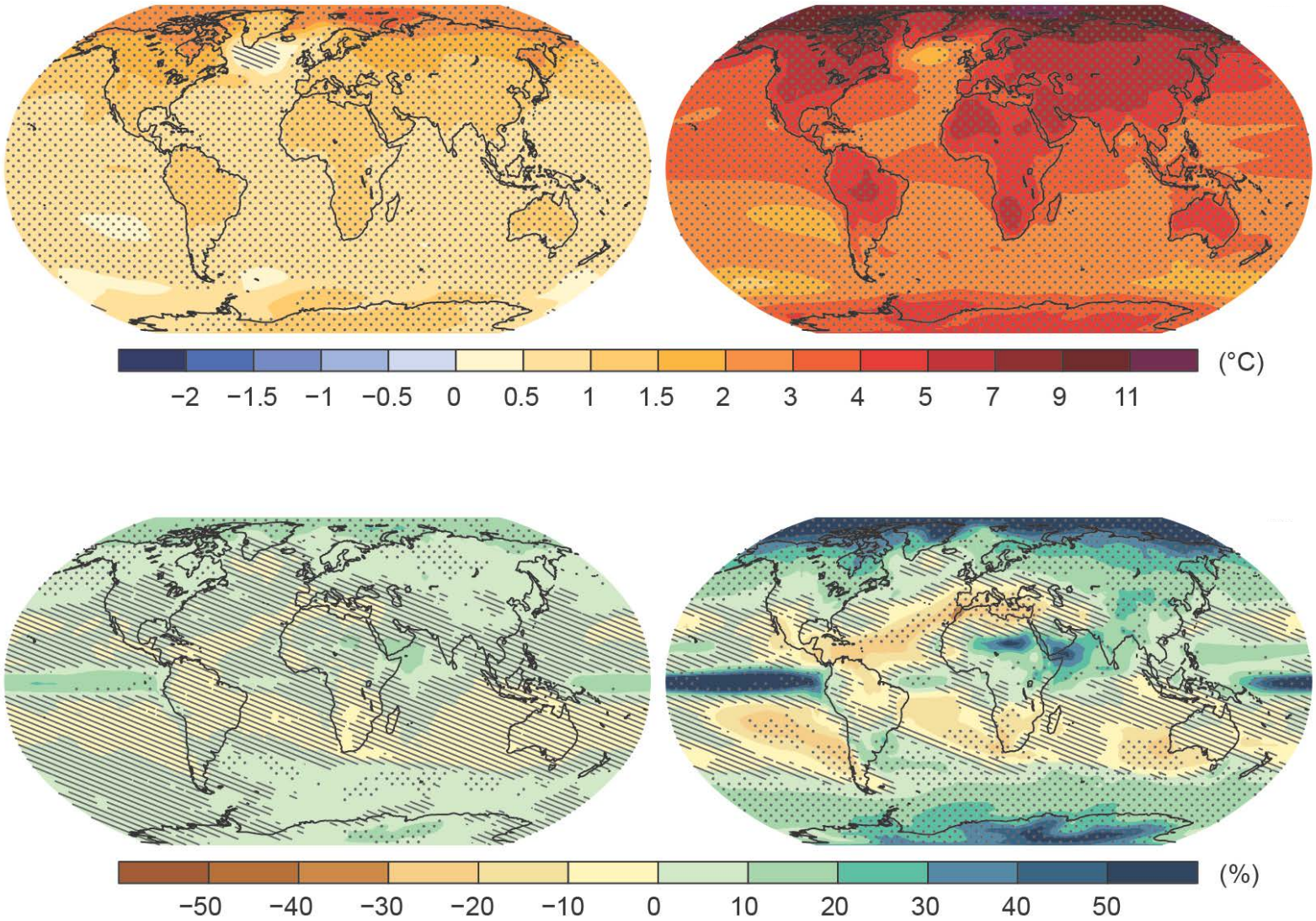




IPCC 2013, Fig. SPM.8

2°C world

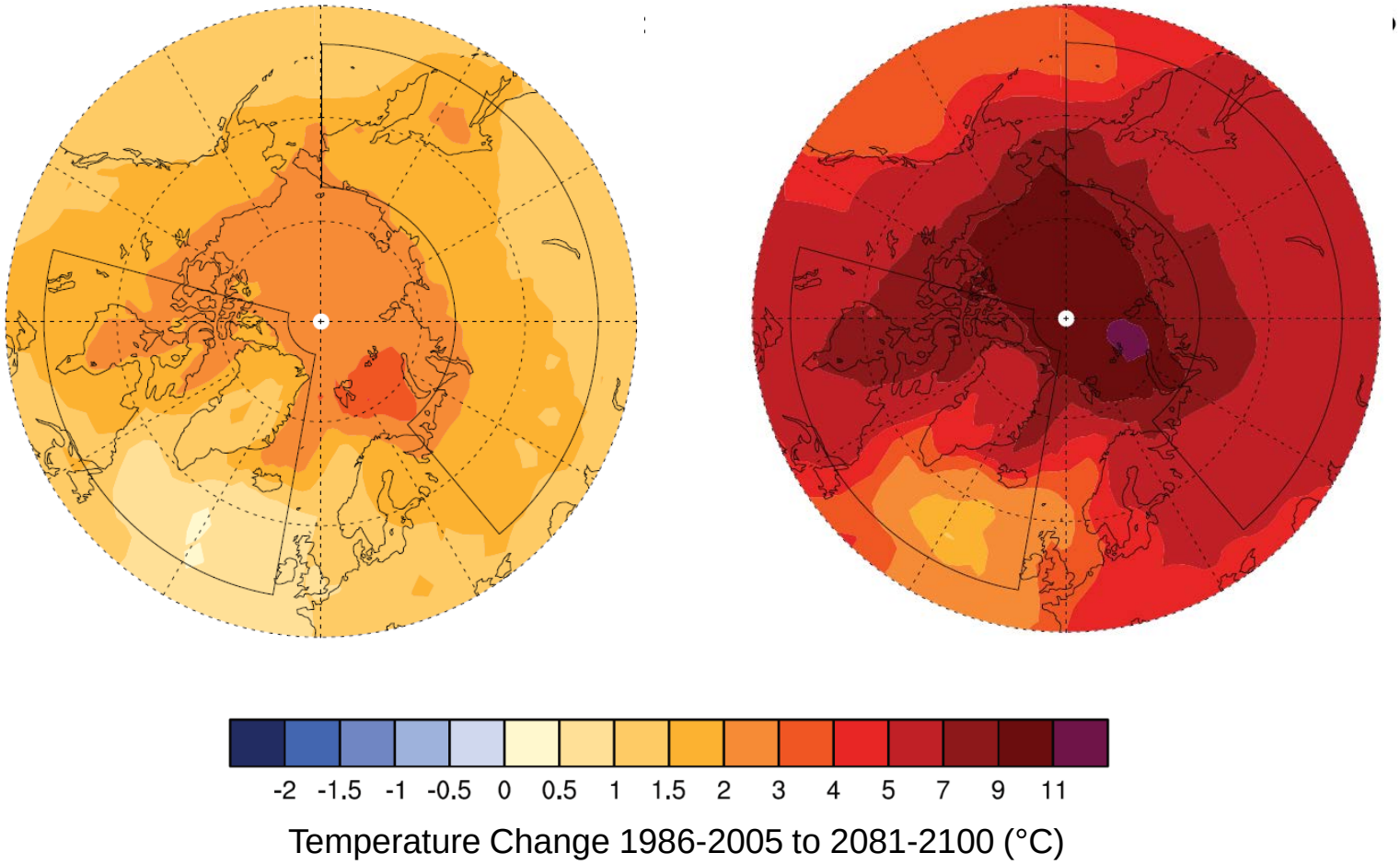
4.5°C world



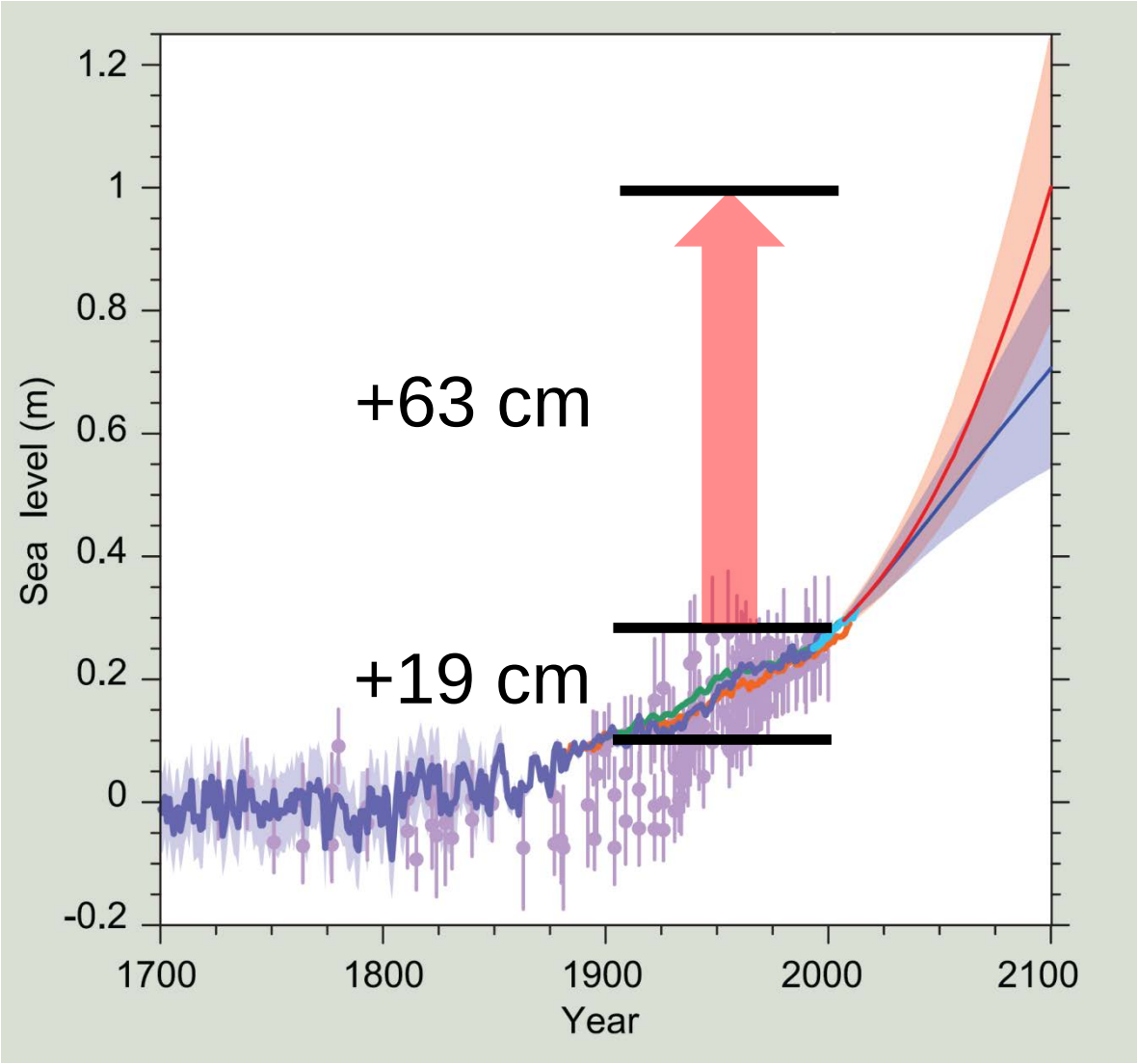
IPCC 2013, Fig. SPM.8

2°C world

4.5°C world



IPCC 2013, Fig. Annex I



IPCC 2013, TFE.2, Fig. 2

ipcc
INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP

Budget for the 2°C target:	790 bill t C
CO_2 emissions until 2013*:	−535 bill t C
Remaining emissions:	**255 bill t C**
CO_2 emissions in 2013*:	**9.9 bill t C**

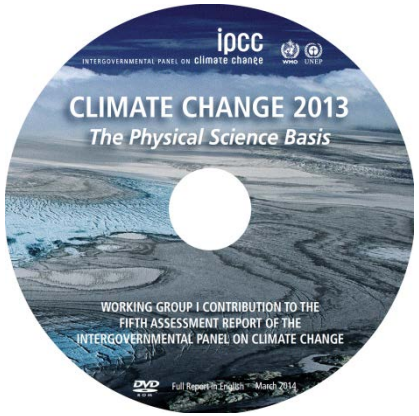
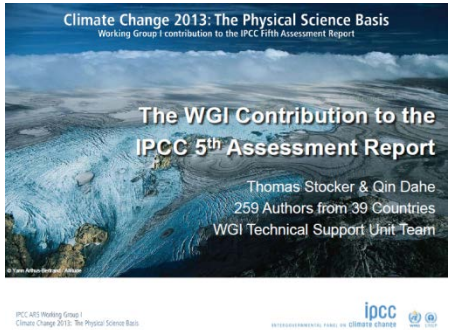
Limiting climate change will require substantial and sustained reductions of greenhouse gas emissions.

* updated from IPCC 2013, WGI SPM

2°C world

4.5°C world

Today we have a choice.

IPCC 2013, Fig. SPM.8

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