







UN Framework Convention on Climate Change



UNITED

NATIONS

Article 2:

FRAMEWORK

CONVENTION

ON CLIMATE

CHANGE

The ultimate objective of this Convention [...] is to achieve [...] stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous [...] interference with the climate system.



Structure of the Intergovernmental Panel on Climate Change





IPCC Plenary

IPCC Bureau

IPCC Secretariat

Working Group I

The Physical Science Basis

TSU

Working Group II

Climate Change Impacts, Adaptation and Vulnerability

TSU

Working Group III

Mitigation of Climate Change

TSU

Task Force on National Greenhouse Gas Inventories

TSU

Authors, Contributors, Reviewers



Principles Governing IPCC Work (1998, 2003, 2006, 2011)

[...]

- 2. The role of the IPCC is to assess on a comprehensive, objective, open and transparent basis the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts and options for adaptation and mitigation. IPCC reports should be neutral with respect to policy, although they may need to deal objectively with scientific, technical and socio-economic factors relevant to the application of particular policies.
- 3. Review is an essential part of the IPCC process. Since the IPCC is an intergovernmental body, review of IPCC documents should involve both peer review by experts and review by governments.

[...]



IPCC Assessment Reports since 1990: WGI Contribution



2013



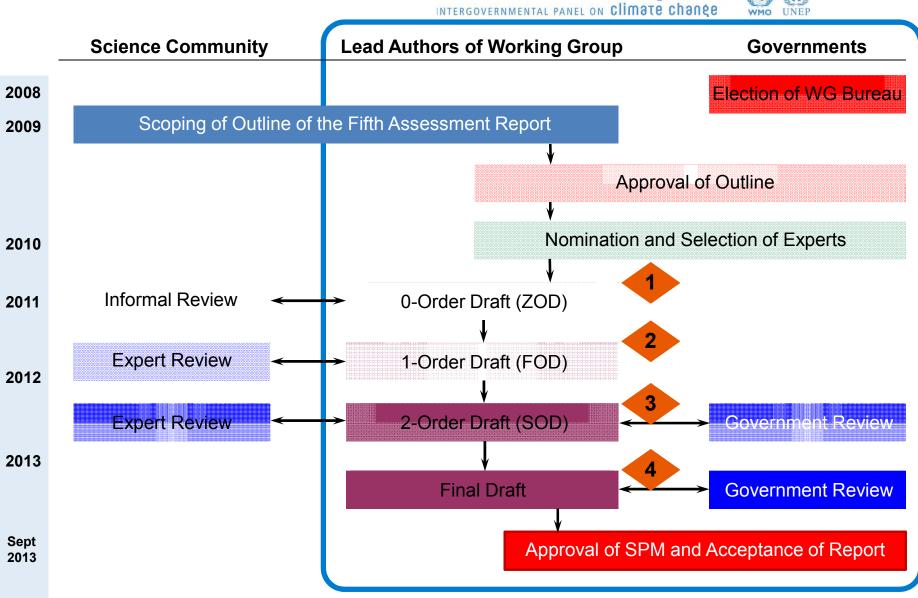




IPCC Process (Working Group I):







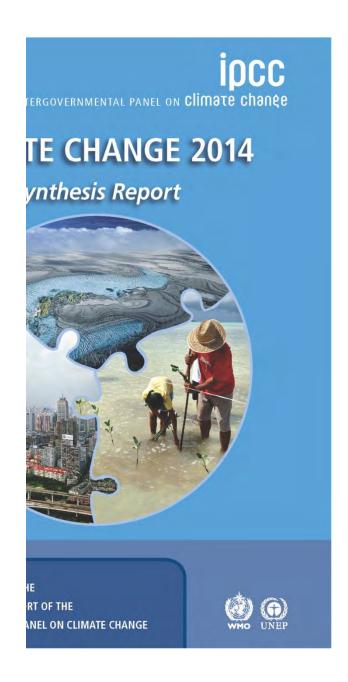
IPCC AR5: More than 1100 authors











IPCC Synthesis Report

21 Headline Statements

printed on only 2 Pages

IPCC Synthesis Report

Summary for Policymakers

31 printed pages

1 Synthesis Report 3 Comprehensive Reports 2 Special Reports

7579 printed pages

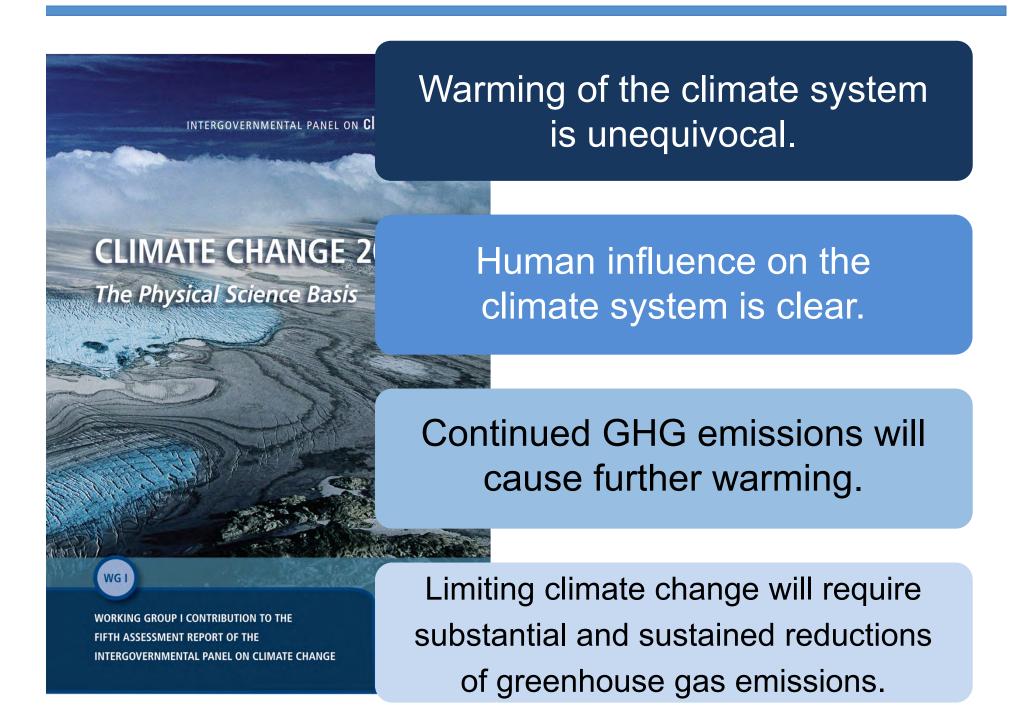
IPCC Working Group I 12th Plenary, Stockholm 23-27 September 2013: **Approval of the Summary for Policymakers: Word-by-word negotiation**

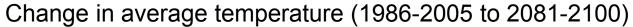


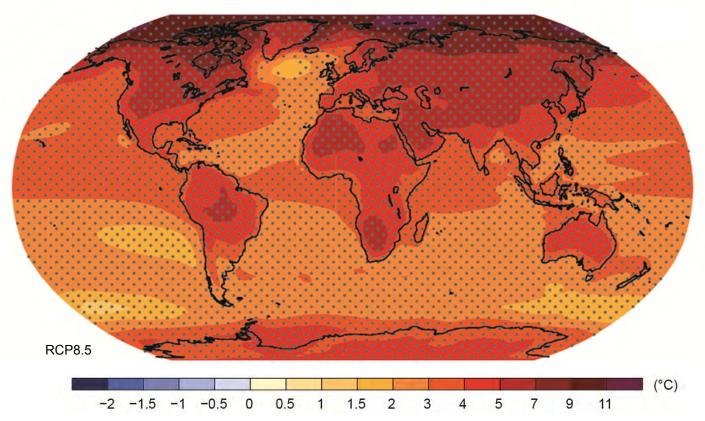
IPCC Working Group I 12th Plenary, Stockholm 23-27 September 2013: **Finally, a sentence approved**





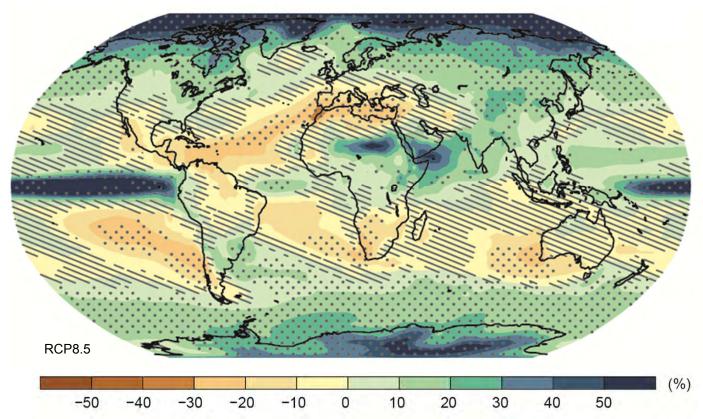




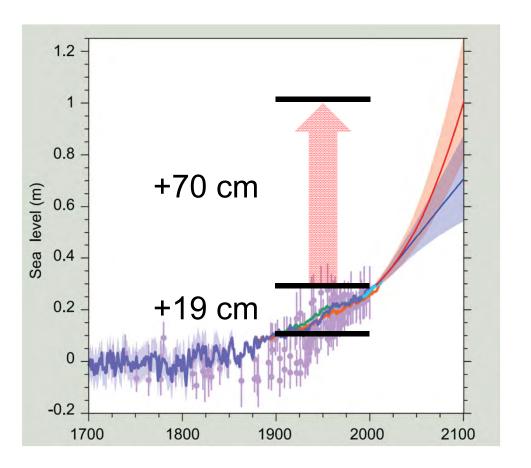


Further warming will increase the likelihood of severe, pervasive and irreversible impacts for people and ecosystems





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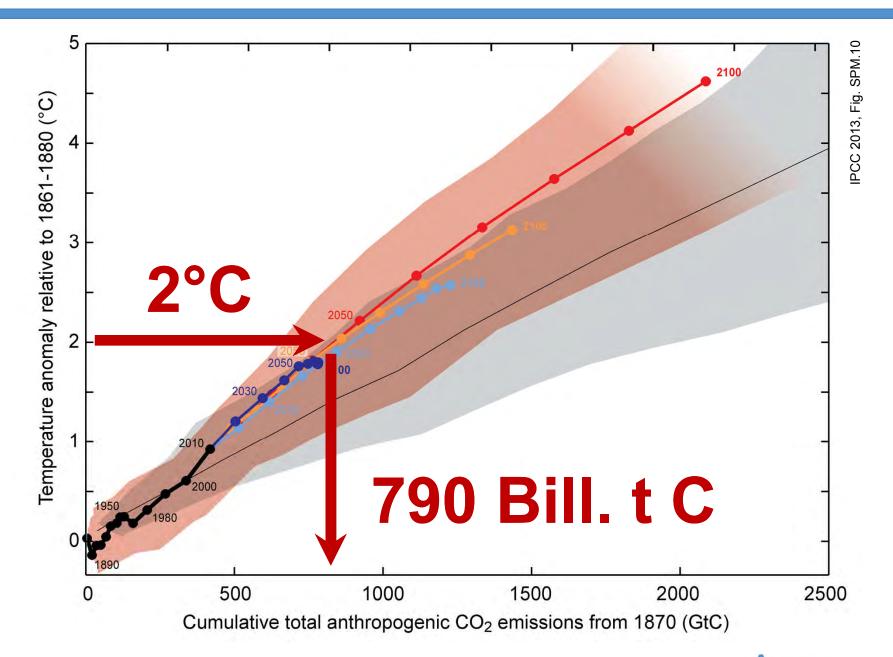


Further warming will increase the likelihood of severe, pervasive and irreversible impacts for people and ecosystems

Warming of 0.8 to 2.5°C



1000 billion tons of carbon







Budget for the 2°C target: 790 bil t C

CO₂ emissions until 2016*: -565 bil t C

remaining emissions: 225 bil t C

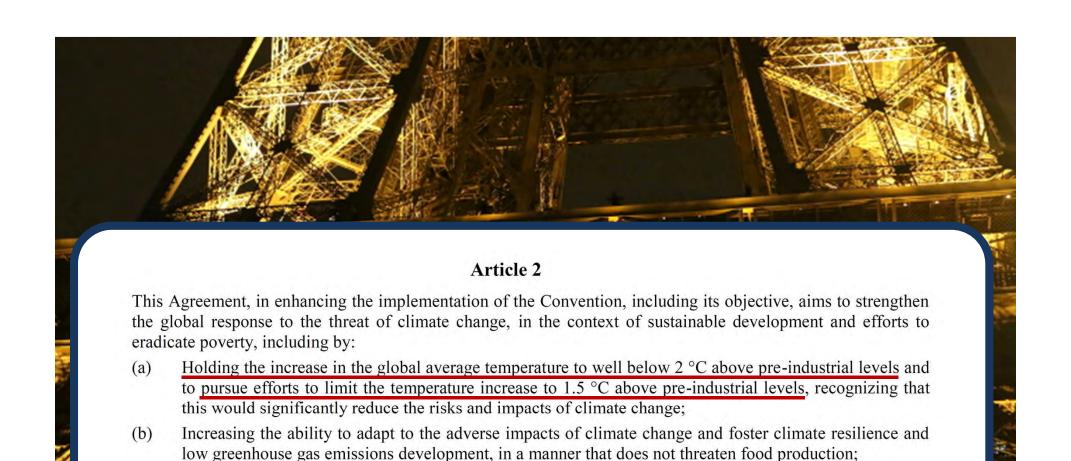
CO₂ emissions in 2016*: 10 bil t C

* updated from IPCC 2013

The CO₂ budget will be exhausted by about 2040.

By 2040, the 2°C target will be lost.

rence sur les Changements Climatique COP21/CMP11 Paris France PRESIDENT **SECRE**



Making finance flows consistent with a pathway towards low greenhouse gas emissions and climate-

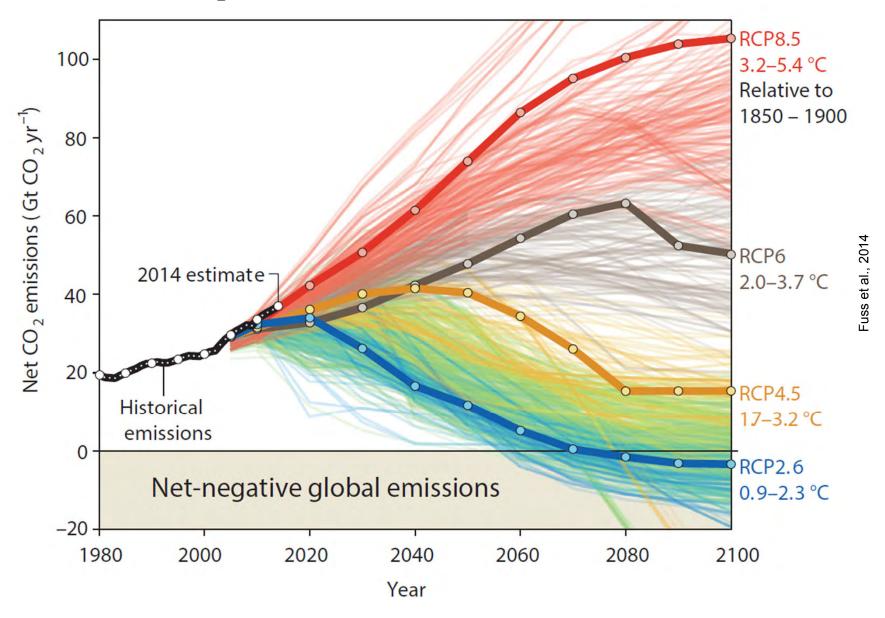
This Agreement will be implemented to reflect equity and the principle of common but differentiated

responsibilities and respective capabilities, in the light of different national circumstances.

(c)

resilient development.

CO₂ Emission Pathways until year 2100

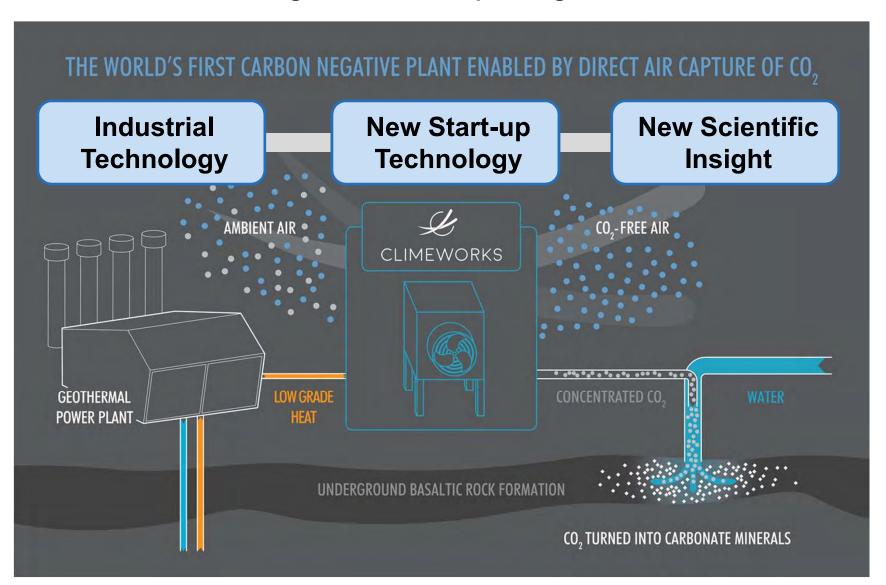


12. October 2017 Hellisheiði, Iceland: First net-negative emission power generation



Climeworks 2017

12. October 2017 Hellisheiði, Iceland: First net-negative emission power generation







Fourth Industrial Revolution **Decarbonisation**

