

ipcc

INTERGOVERNMENTAL PANEL ON climate change

CLIMATE CHANGE 2014

Synthesis Report

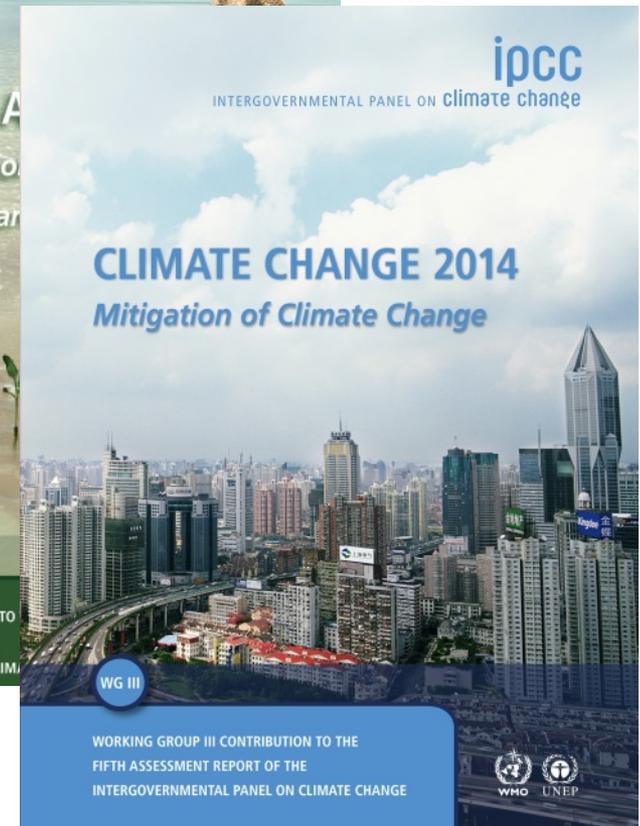
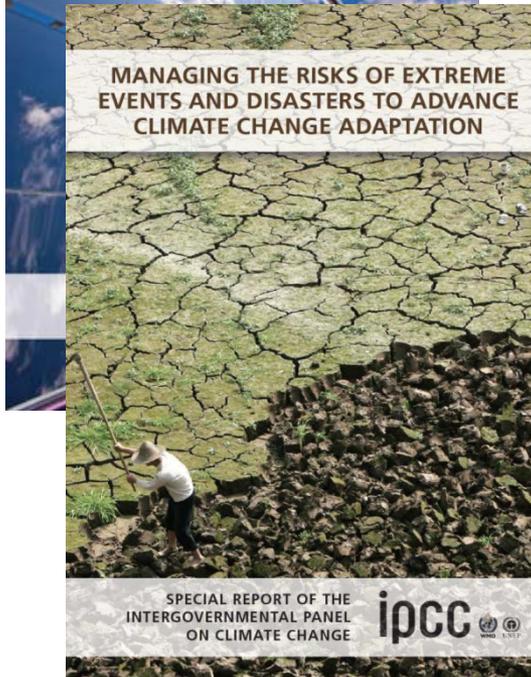


Thomas Stocker

WGI Co-Chair

University of Bern

IPCC 5th Assessment Cycle (2008-2014):



IPCC Synthesis Report

21 Headline Statements

printed on only 2 Pages

IPCC Synthesis Report

Summary for Policymakers

31 printed pages

3 Comprehensive Reports

2 Special Reports

7579 printed pages

RENEWABLE ENERGY SOURCES
AND
CLIMATE CHANGE MITIGATION

MANAGING THE RISKS OF EXTREME
EVENTS AND DISASTERS TO ADAPT TO
CLIMATE CHANGE ADAPTATION

SPECIAL REPORT OF THE
INTERGOVERNMENTAL PANEL
ON CLIMATE CHANGE

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SYNTHESIS
FIFTH ASSESSMENT
INTERGOVERNMENTAL PANEL
ON CLIMATE CHANGE

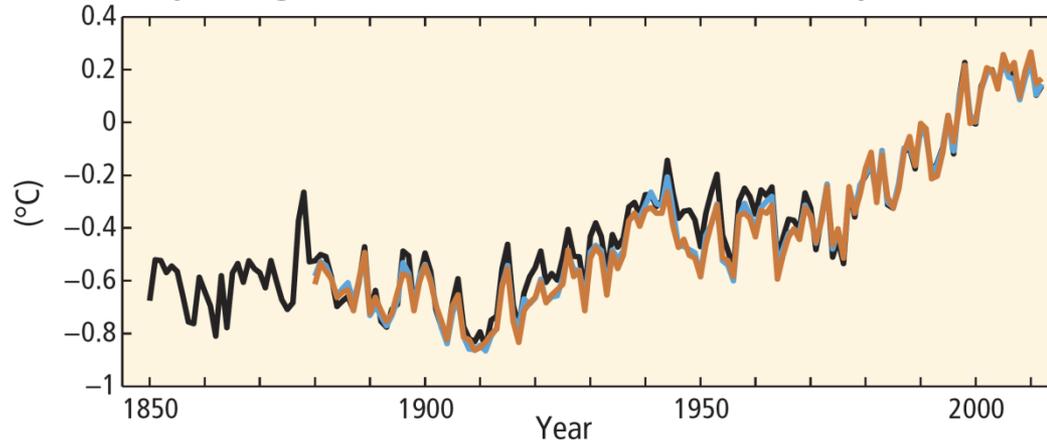
IPCC AR5: More than 1100 authors



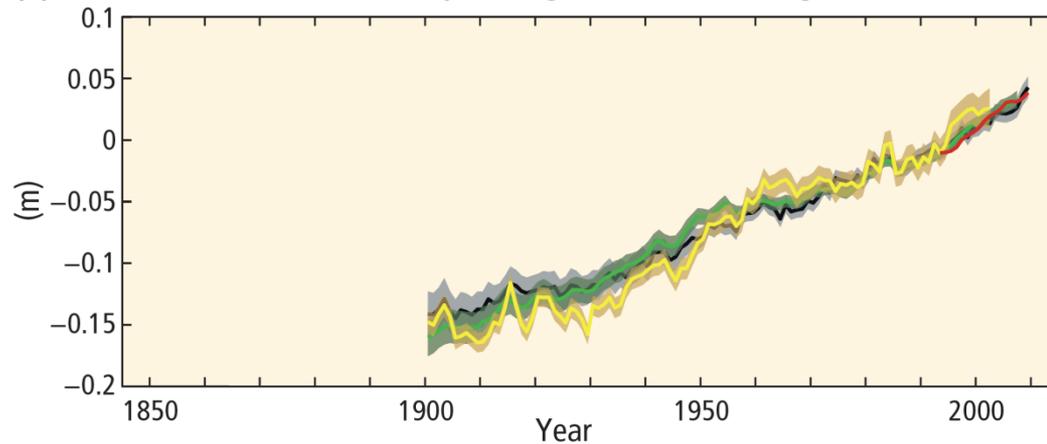
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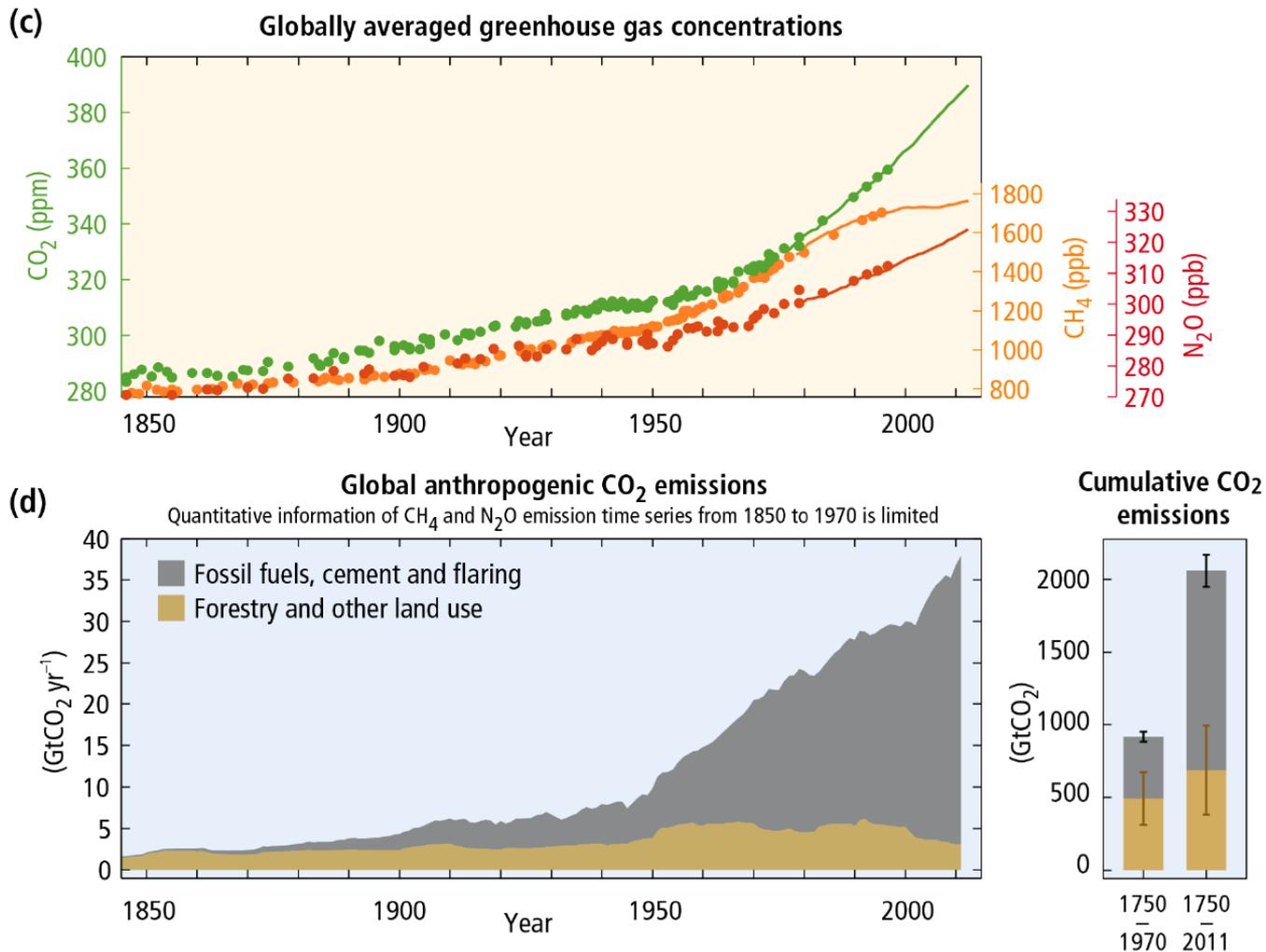
(a) Globally averaged combined land and ocean surface temperature anomaly



(b) Globally averaged sea level change

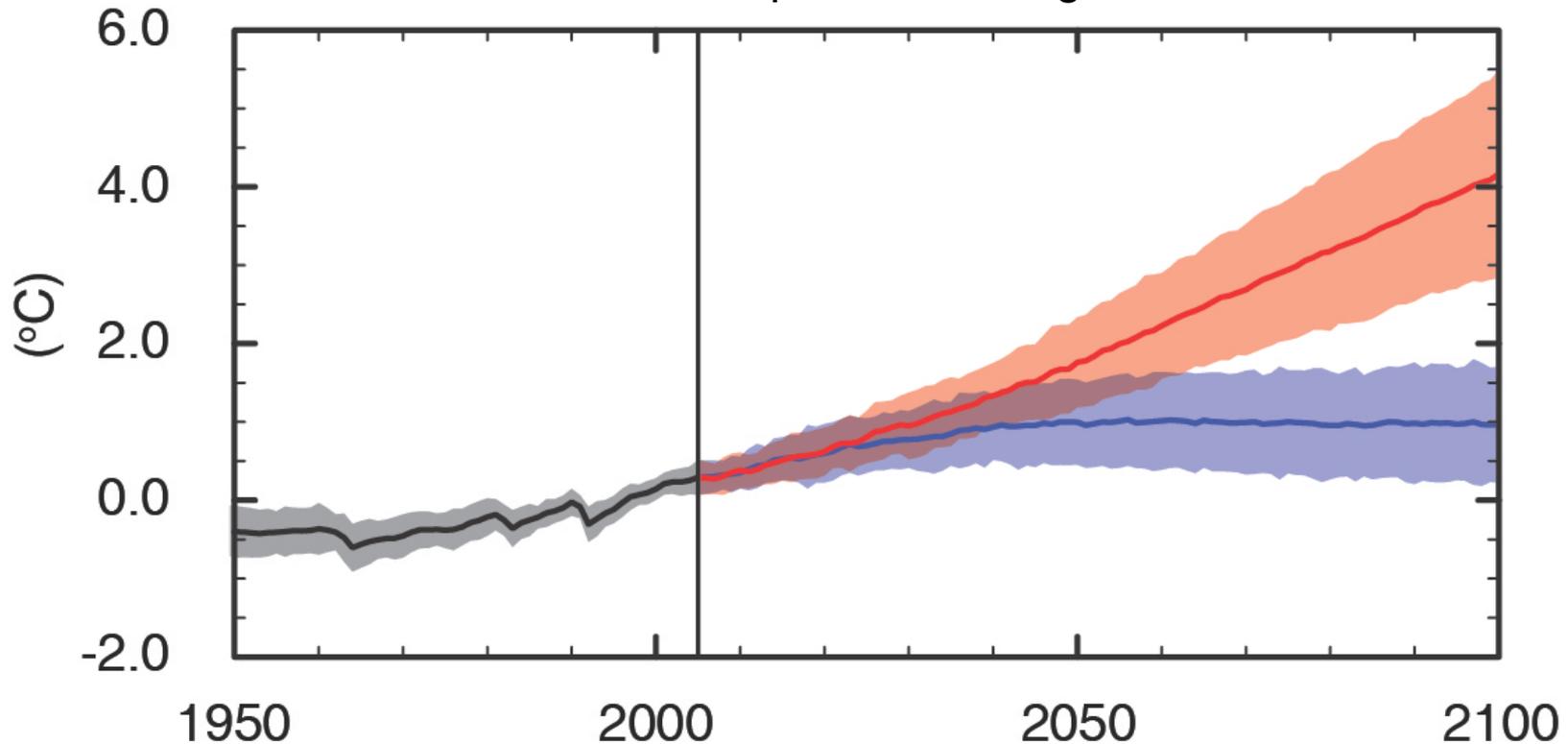


Warming of the climate system is unequivocal and, since the 1950s, many of the observed changes are unprecedented over decades to millennia.

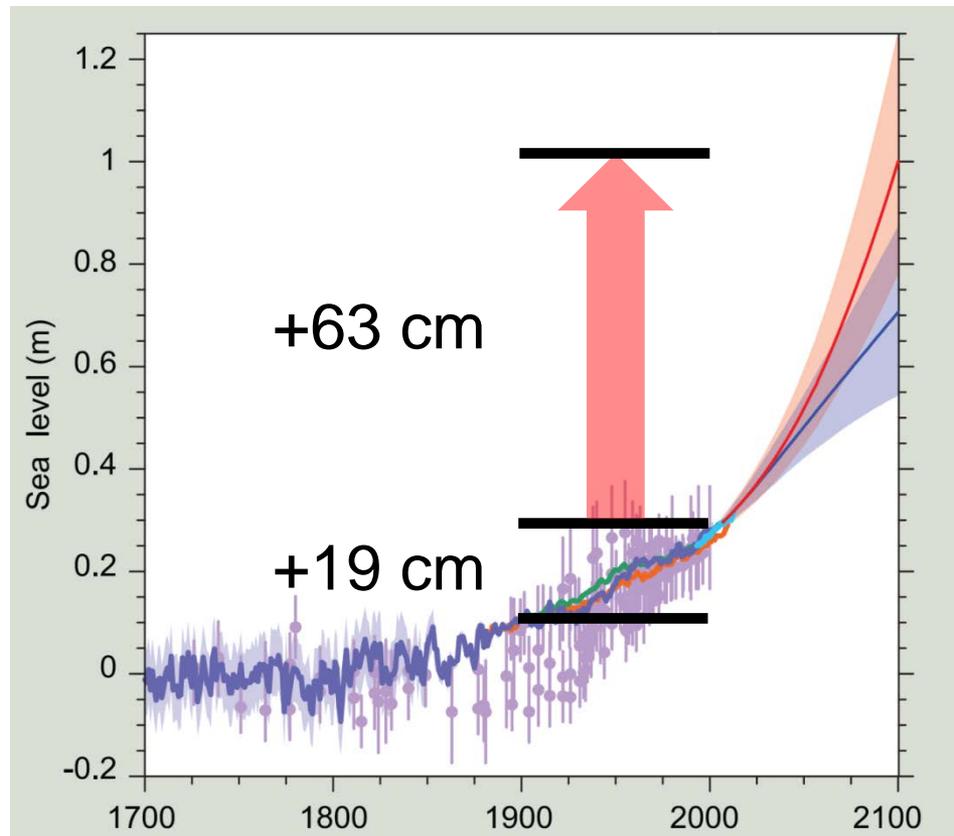


Human influence on the climate system is clear, and recent anthropogenic emissions of greenhouse gases are the highest in history.

Global mean surface temperature change from 1986-2005

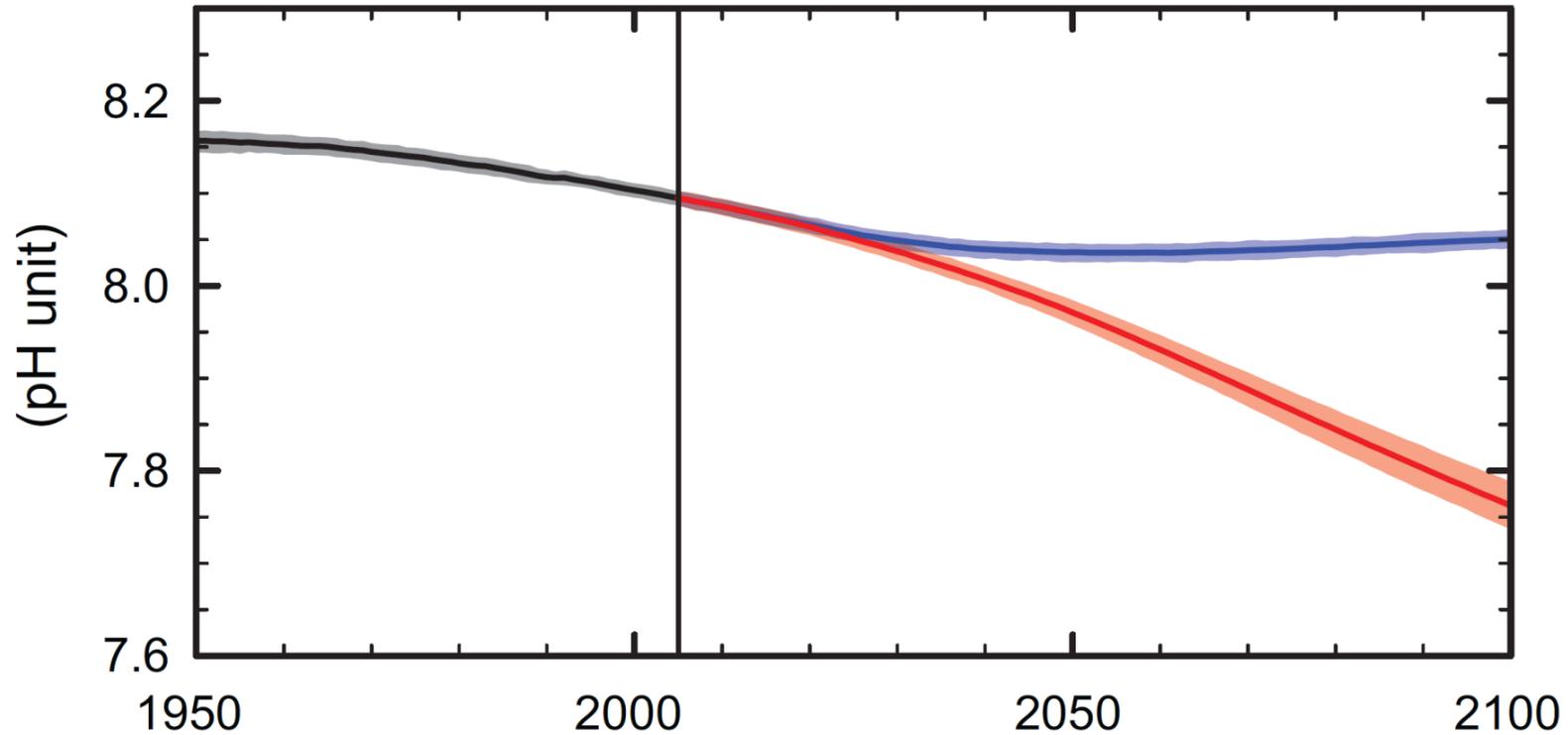


Further warming will increase the likelihood of severe, pervasive and irreversible impacts for people and ecosystems.

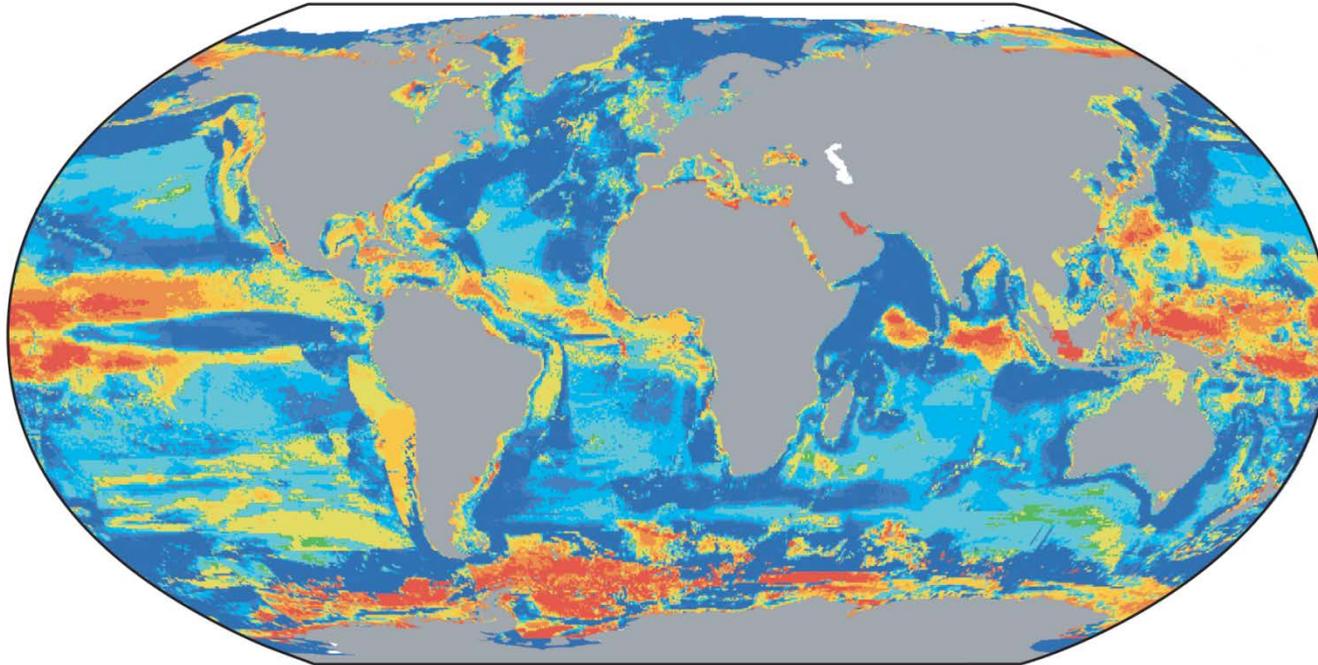


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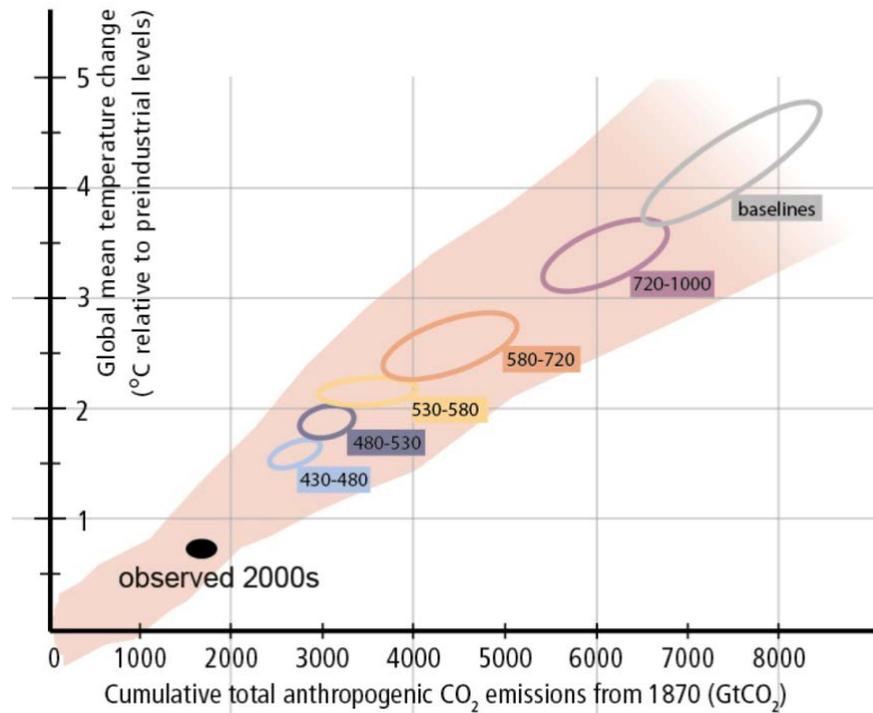
Global ocean surface pH



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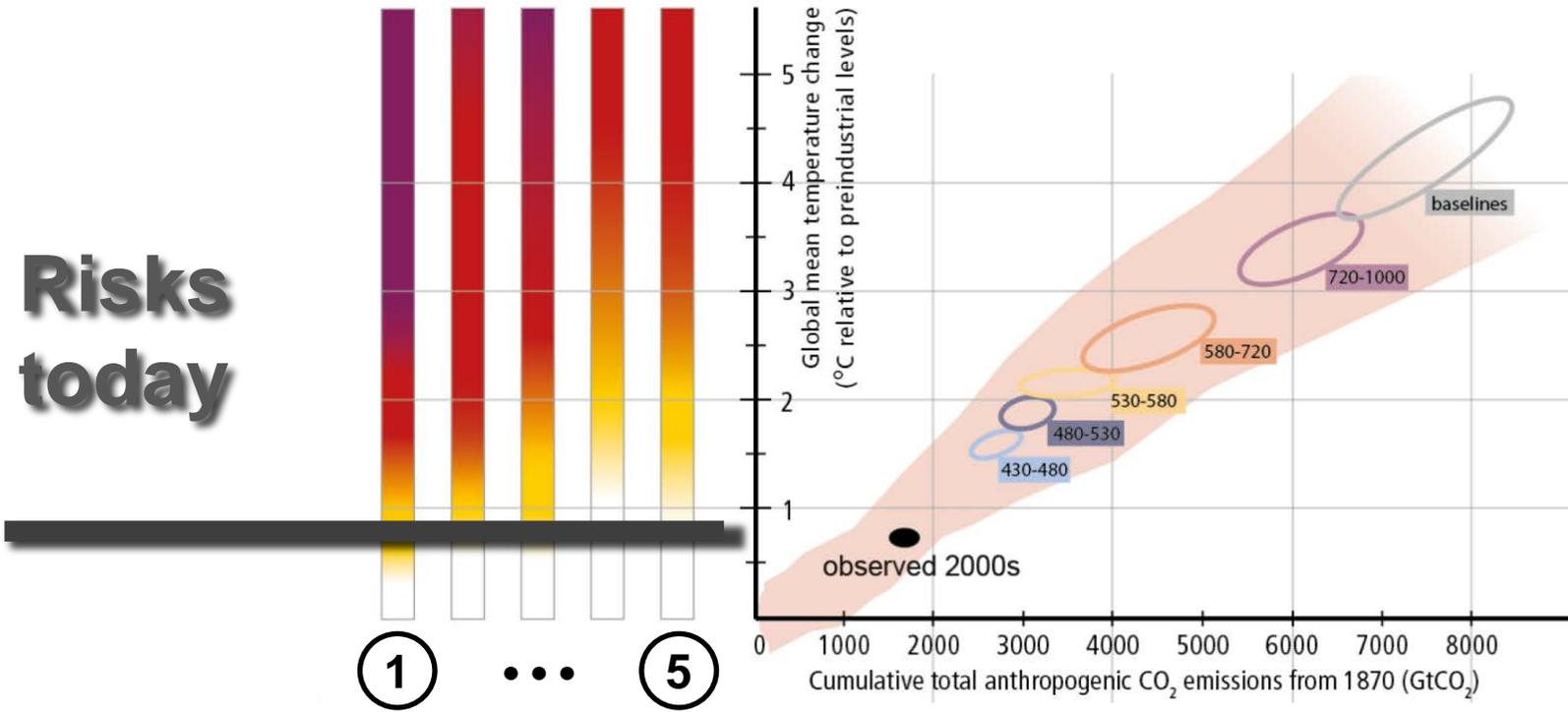


Risks are unevenly distributed and are generally greater for disadvantaged people and communities in countries at all levels of development.



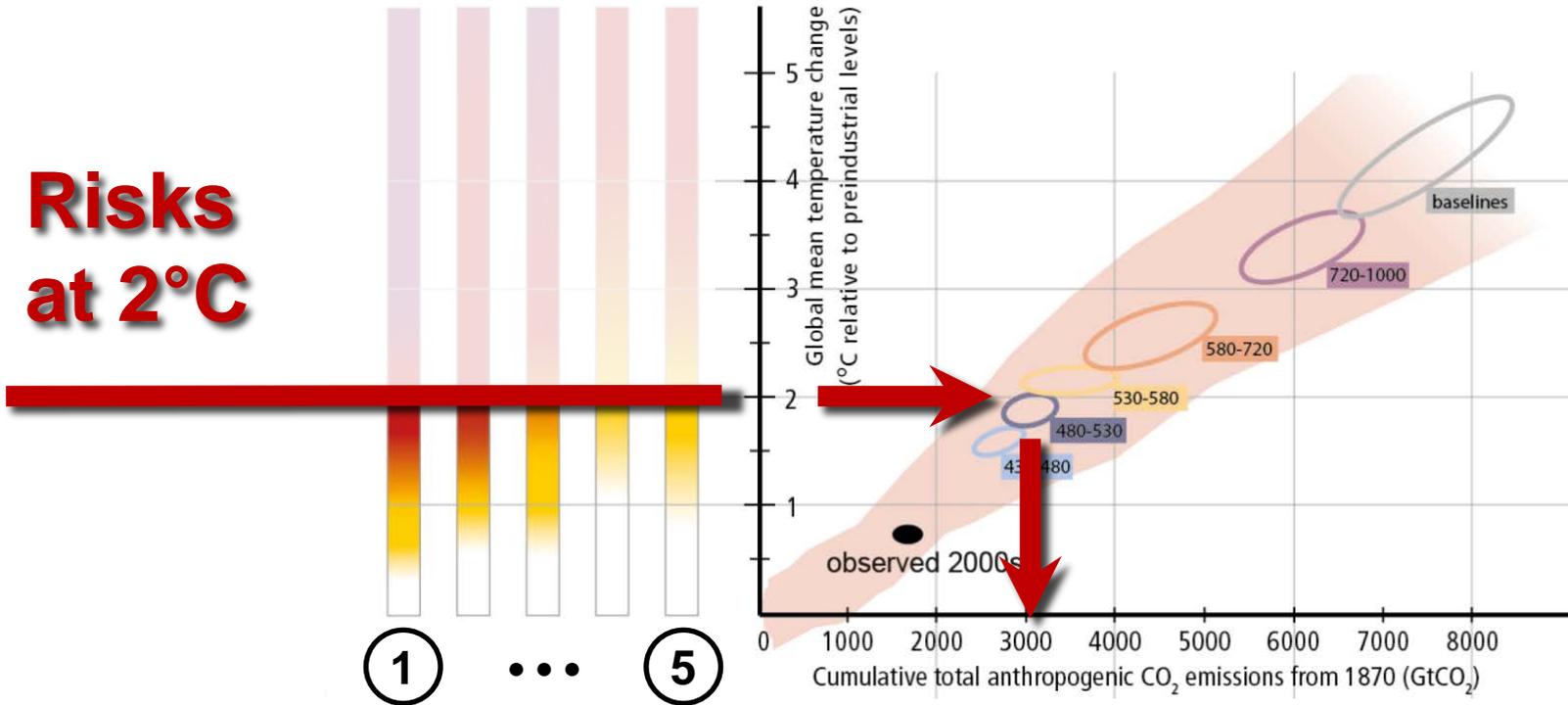
Cumulative emissions of CO₂ largely determine global mean surface warming by the late 21st century and beyond.

Risks today



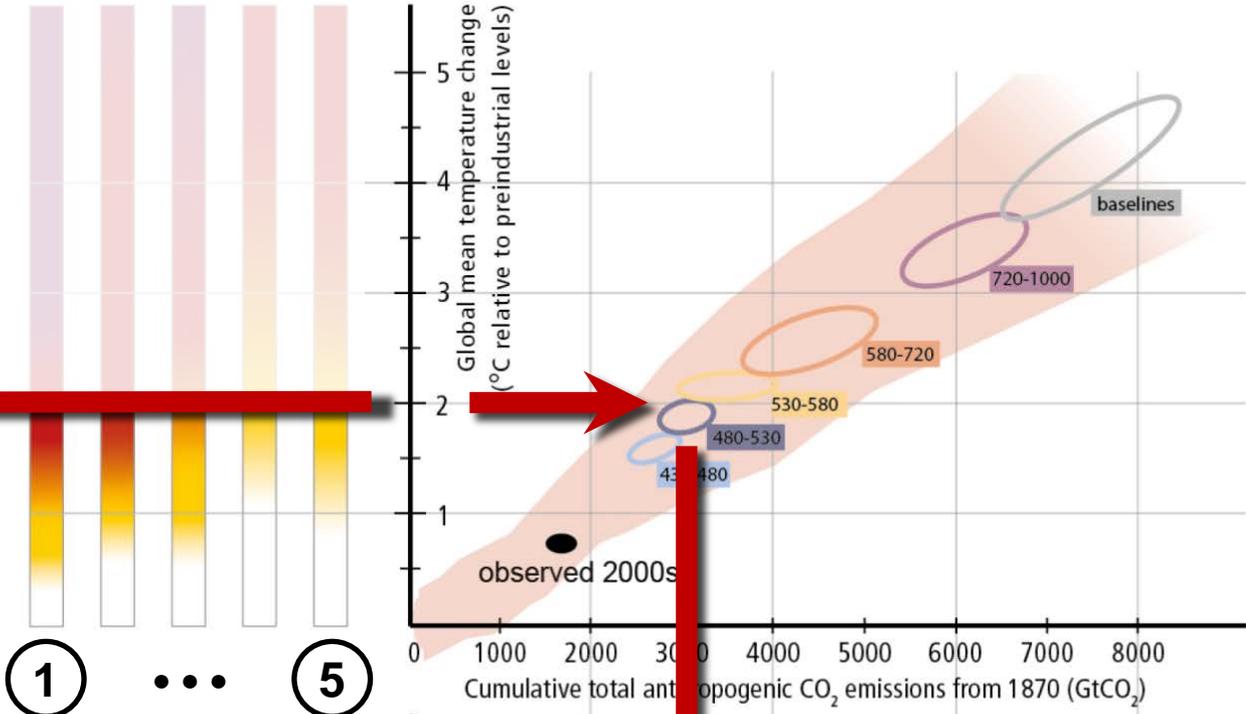
- ① Unique & threatened systems
- ② Extreme weather events
- ③ Distribution of impacts
- ④ Global aggregate impacts
- ⑤ Large-scale singular events

Risks at 2°C

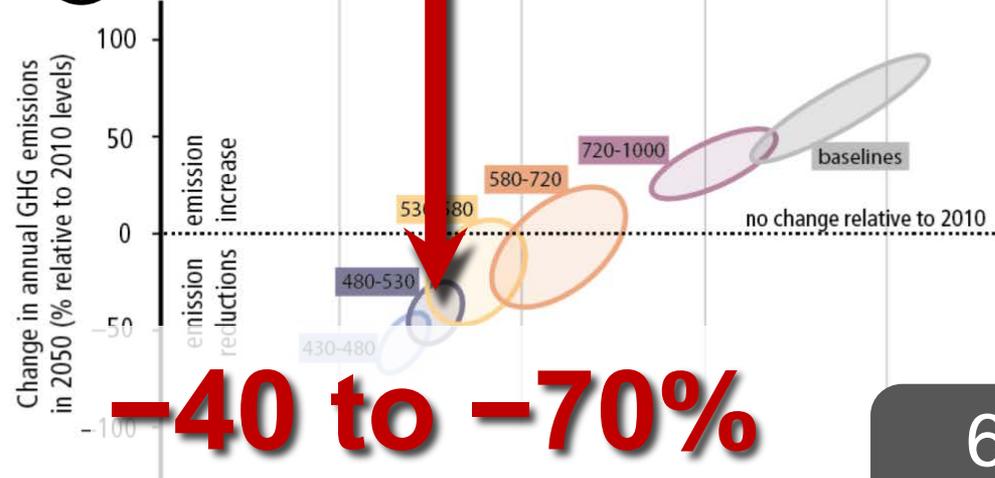


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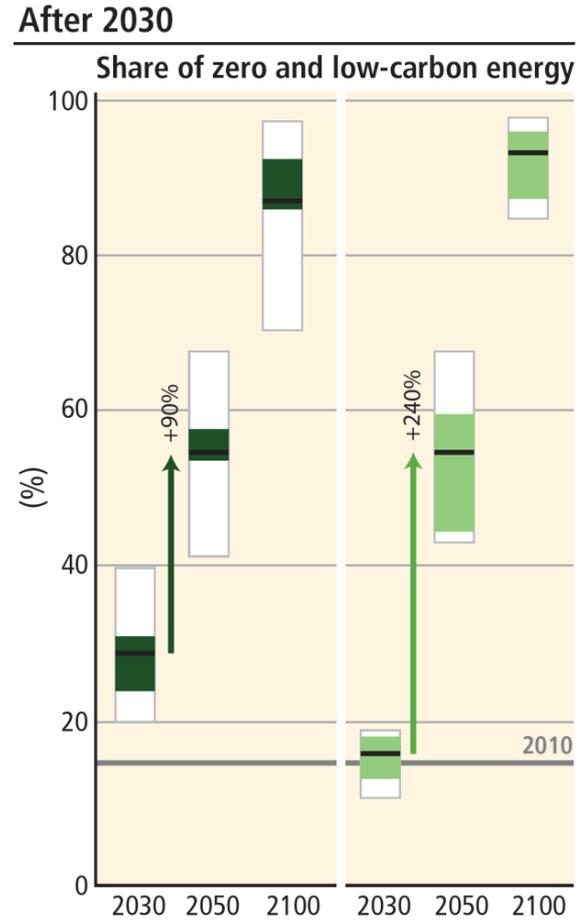
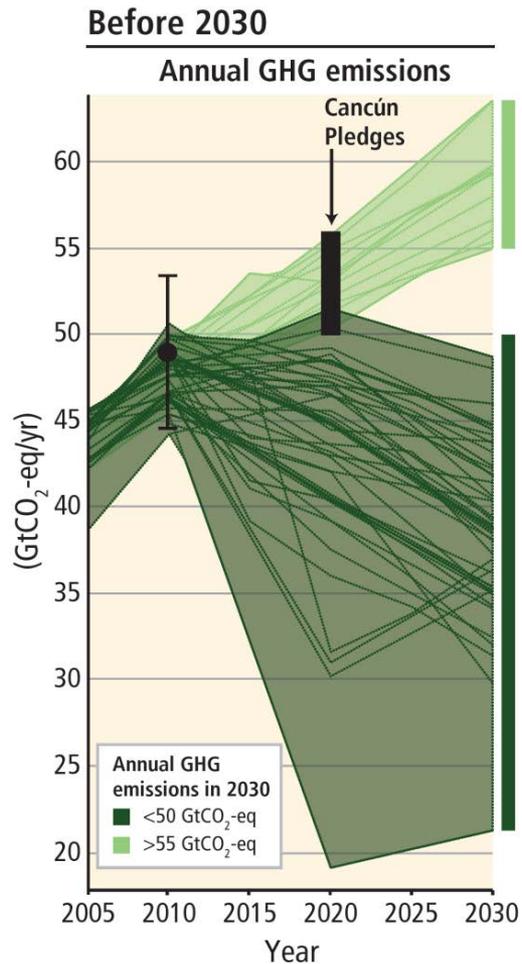


① ... ⑤



**-40 to -70%
by 2050**

**66%
chance**



Substantial emissions reductions over the next few decades can reduce climate risks [...] and contribute to climate-resilient pathways for sustainable development.

Climate change is a threat to sustainable development.

GOAL 1
END POVERTY IN ALL ITS FORMS EVERYWHERE

GOAL 2
END HUNGER, ACHIEVE FOOD SECURITY, IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

GOAL 3
ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

GOAL 4
ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL

GOAL 5
ACHIEVE GENDER EQUALITY AND EMPOWER WOMEN AND GIRLS

GOAL 6
ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

GOAL 7
ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

GOAL 8
PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

GOAL 9
BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

GOAL 10
REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

GOAL 11
MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

GOAL 12
ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

GOAL 13
TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS*

GOAL 14
CONSERVE AND SUSTAINABLY USE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

GOAL 15
PROTECT, RESTORE AND PROMOTE SUSTAINABLE TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

GOAL 16
PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

GOAL 17
STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

Acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum negotiating the global response to climate change

SUSTAINABLE DEVELOPMENT GOALS
More at sustainabledevelopment.un.org/sdgsproposal

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PARIS CLIMAT 2015