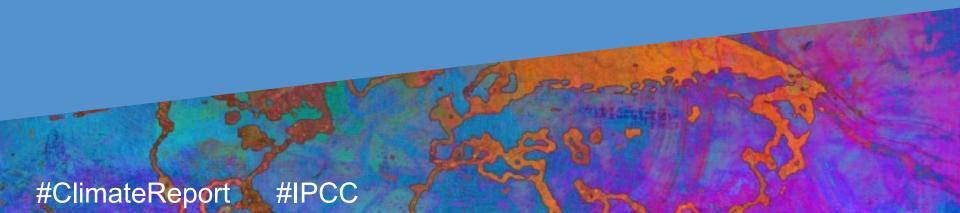




Presentation to Warsaw International Mechanism for Loss and Damage

September 2021



Summary for Policymakers

Technical Summary

TS.1 A changing climate

TS.2 Large-scale climate change

TS.3 Understanding the climate system response and implication for limiting global

TS.4 Regional climate change

Event attribution / climate services / monsoons / urban areas

climate

Key concepts /

paleoclimate.

alobal surface

temperature

Low-likelihood, high warming storylines / sea level, carbon cycle / water cycle / infographic on climate futures Climate and air quality responses to shortlived climate forcers / earth system response to solar radiation modification / irreversibility / tipping points and abrupt



Climate Change 2021

The Physical Science Basis

iocc

INTERGOVERNMENTAL PANEL ON Climate change

Interactive Atlas

Underlying Chapters

1 Framing, context, methods

Large scale climate change

2 Changing state of the climate system3 Human influence on the climate system4 Future global

climate

Climate processes

biogeochemical cycles6 Short-lived climate forcers7 The Earth's energy budget8 Water cycle changes

5 Global carbon and other

8 Water cycle changes9 Oceans, cryosphere, sea change

Regional climate information

10 Linking global to regional climate

11 Weather and extreme events

12 Climate information for regional impact & risk assessment

13 Regional climate change Atlas



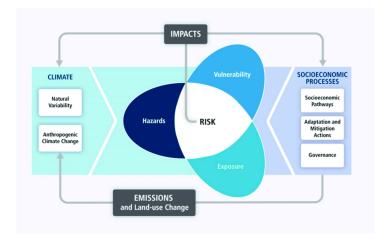


The three Working Groups have adopted a common risk framing (Cross-Chapter Box 1.3)

Def: 'potential for adverse consequences for human or ecological systems, recognising the diversity of values and objectives associated with such systems. In the context of climate change, risks can arise not only from impacts of climate change, but also from potential human responses to climate change. Relevant adverse consequences include those on lives, livelihoods, health and wellbeing, economic, social and cultural assets and investments, infrastructure, services (including ecosystem services)

Climatic impact-drivers: CIDs are physical climate system conditions (e.g., means, extremes, events) that affect an element of society or ecosystems. Depending on system tolerance, CIDs and their changes can be detrimental, beneficial, neutral, or a mixture of each across interacting system elements and regions.





Working Group I - The Physical Science Basis

INTERGOVERNMENTAL PANEL ON Climate chance





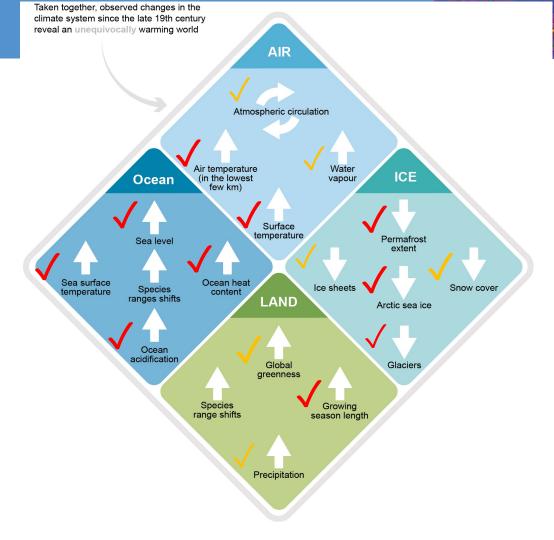


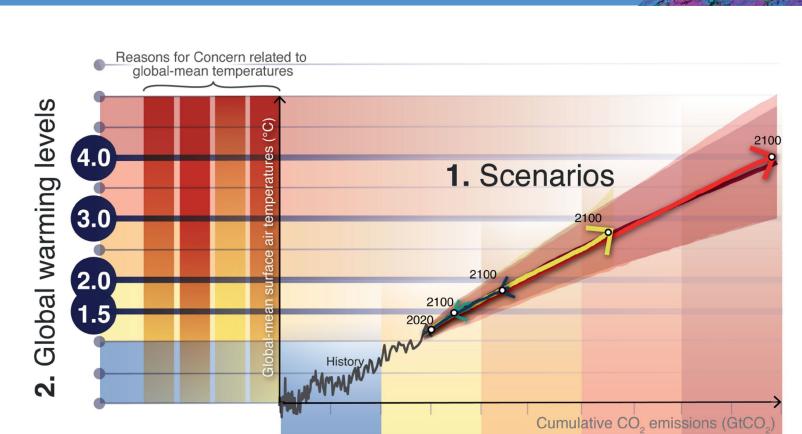
the process of evaluating the contribution of one or more causal factors to observed changes or events.



Human influence

- √ main driver of ...
- √ contributes to ...





3. Cumulative CO₂ emissions





Will climate change cause unprecedented extremes?



Larger magnitude



Increased frequency



New locations



Different timing



New combinations (compound)





Will climate change cause unprecedented extremes?

Yes, in a changing climate, extreme events may be unprecedented when they occur



Larger magnitude



Increased frequency



New locations



Different timing



New combinations (compound)

Working Group I – The Physical Science Basis





Thank you.

More Information:

IPCC: www.ipcc.ch

IPCC Secretariat: ipcc-sec@wmo.int

IPCC Press Office: ipcc-media@wmo.int

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