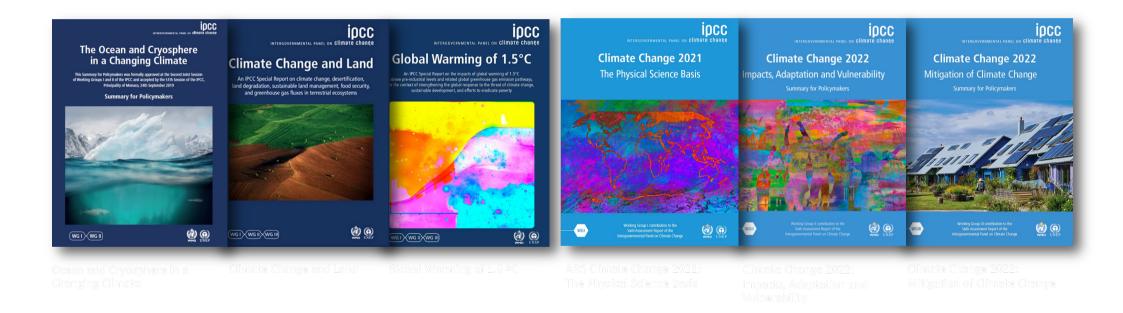
# The Intergovernmental Panel on Climate Change

### Sixth assessment report of climate change

Anna Pirani Head, IPCC AR6 Working Group I Technical Support Unit Senior Research Associate, Euro-Mediterranean Centre on Climate Change (CMCC)



### The state of knowledge on climate change









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### **IPCC and international policy**



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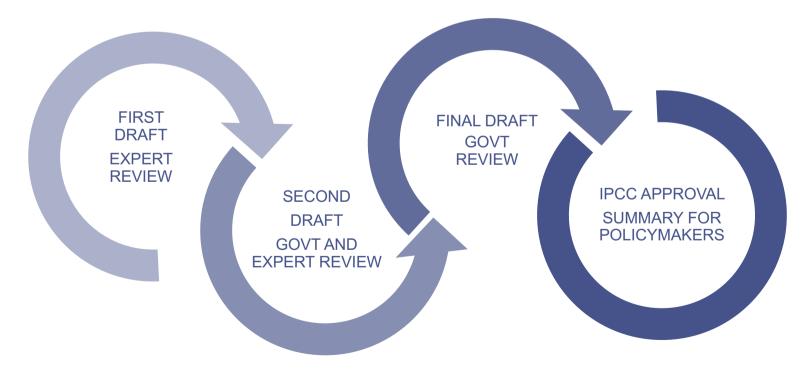
WMO UNEP

## **IPCC and international policy**

## A unique science-policy interface

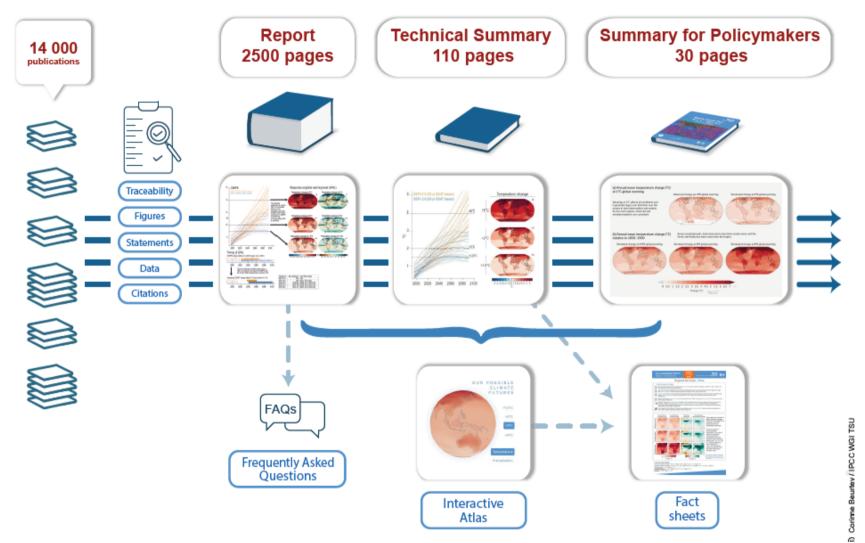


- IPCC reports are neutral with respect to political choices.
- The IPCC does not conduct its own research nor produce datasets.
- Scientists assess evidence from scientific, technical and socioeconomic publications.



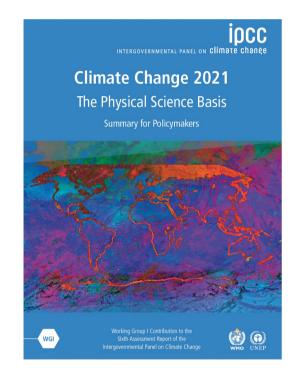
## **Traceability of the assessment**



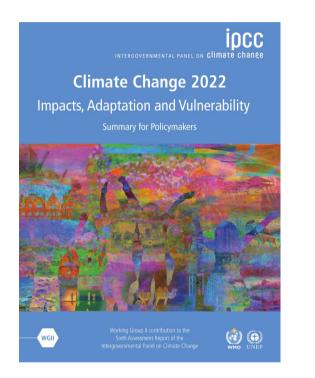


### The AR6 Climate Report

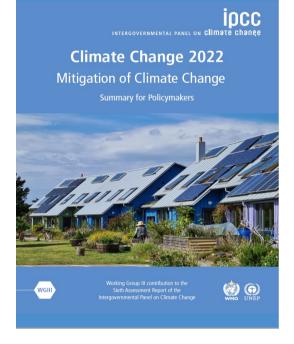
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234 authors, 65 countries 14,000+ scientific papers 78,000+ review comments



270 authors, 67 countries
34,000+ scientific papers
62,000+ review comments



278 authors, 65 countries 18,000+ scientific papers 59,000+ review comments

### **Role of national delegates**



National policymakers co-develop the structure of the report, participate in the review process and approve the Summary for Policymakers (SPM) line by line.



### Approval line by line of the Summary for Policymakers

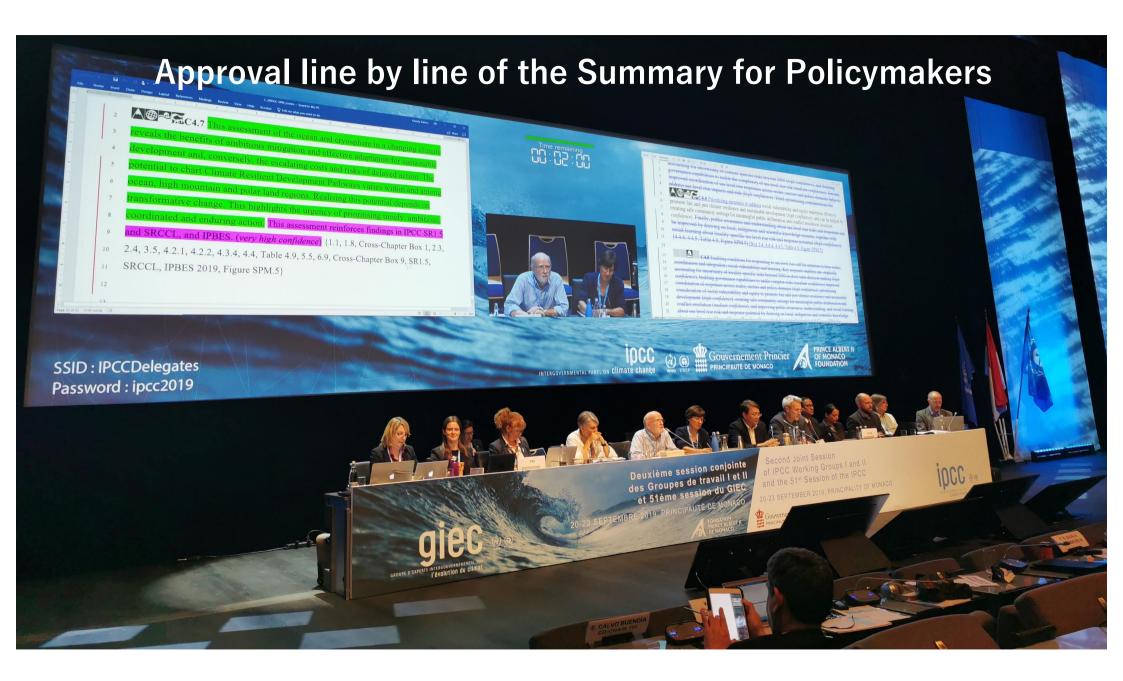




ession conjointe s de travail I et II session du GIEC Second Joint Session of IPCC Working Groups I and II and the 51<sup>st</sup> Session of the IPCC









Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years

[Credit: NASA]



# Widespread and rapid changes in the atmosphere, ocean, cryosphere and biosphere

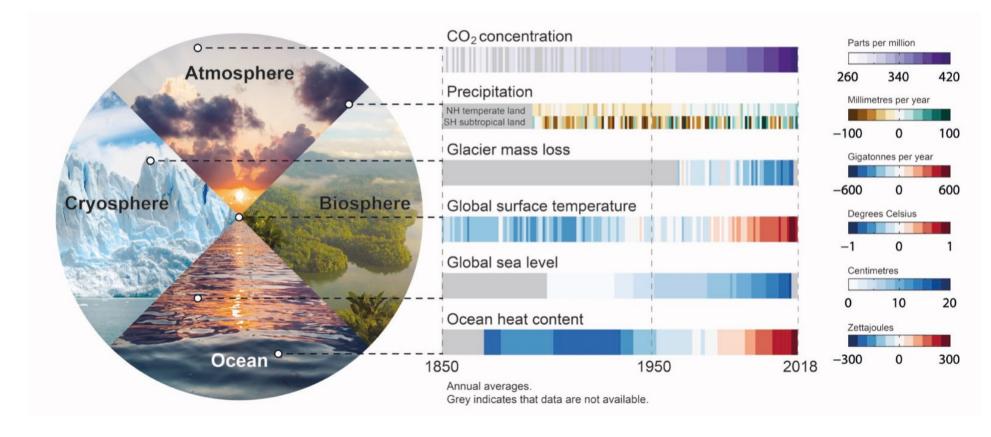


Figure 1.4 Working Group I, Sixth Assessment Report



### Human activities have unequivocally caused climate change

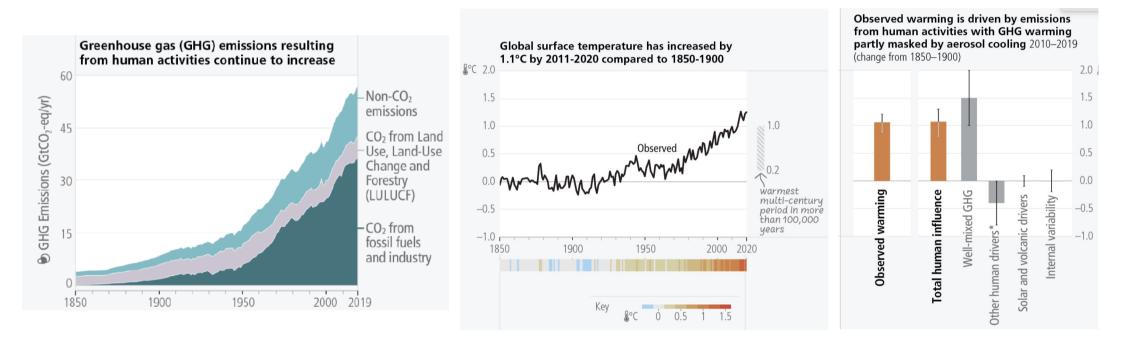
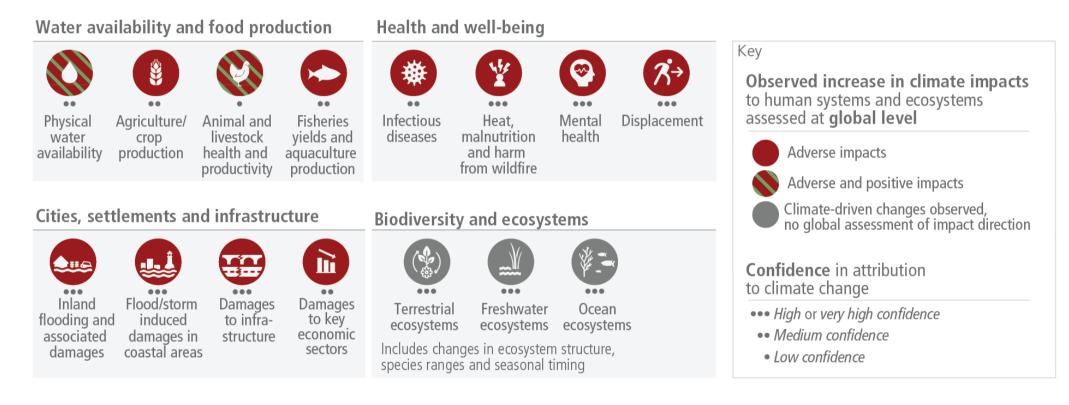


Figure 2.1a, c, d Synthesis Report of the Sixth Assessment Report



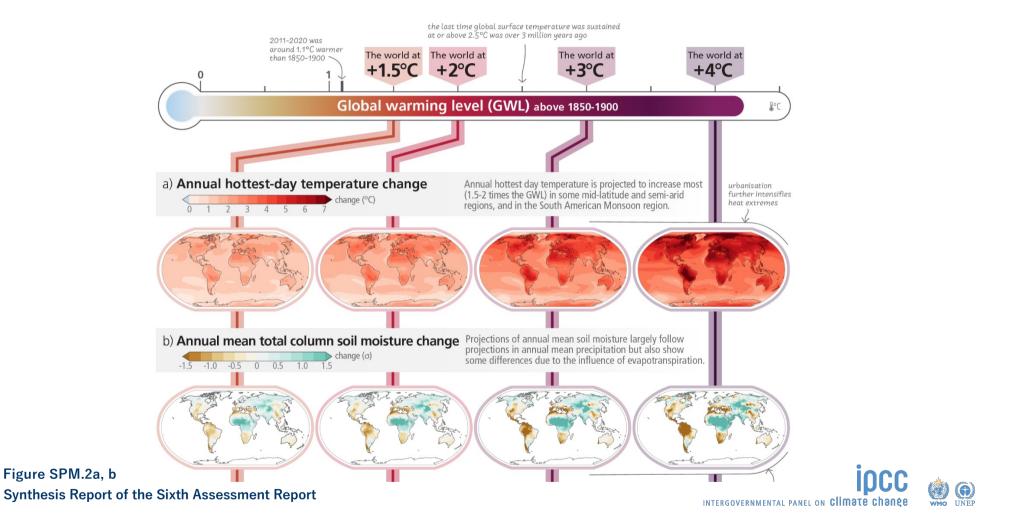
# Observed widespread and substantial impacts and related losses and damages attributed to climate change



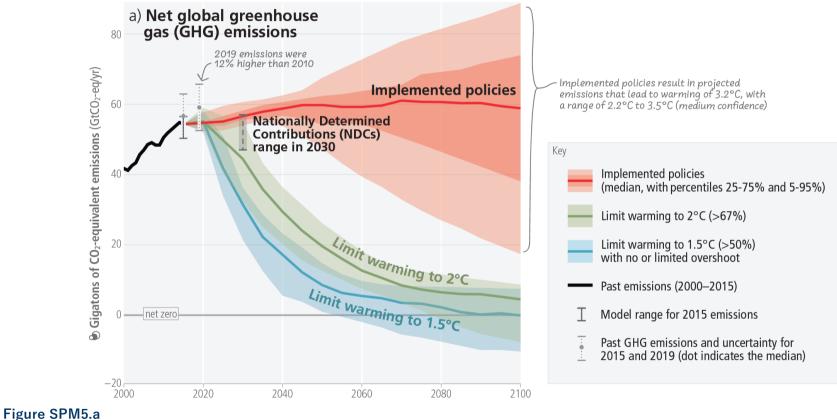




# With every increment of global warming, regional changes in mean climate and extremes become more widespread and pronounced



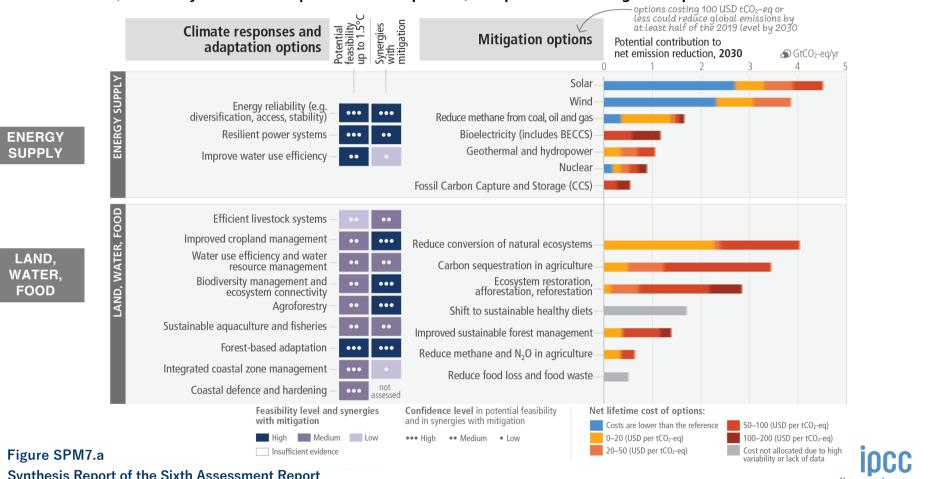
# Limiting warming to 1.5° C and 2° C requires immediate, rapid and deep reductions in greenhouse gas emissions in all sectors



Synthesis Report of the Sixth Assessment Report



### There are multiple opportunities for scaling up climate action



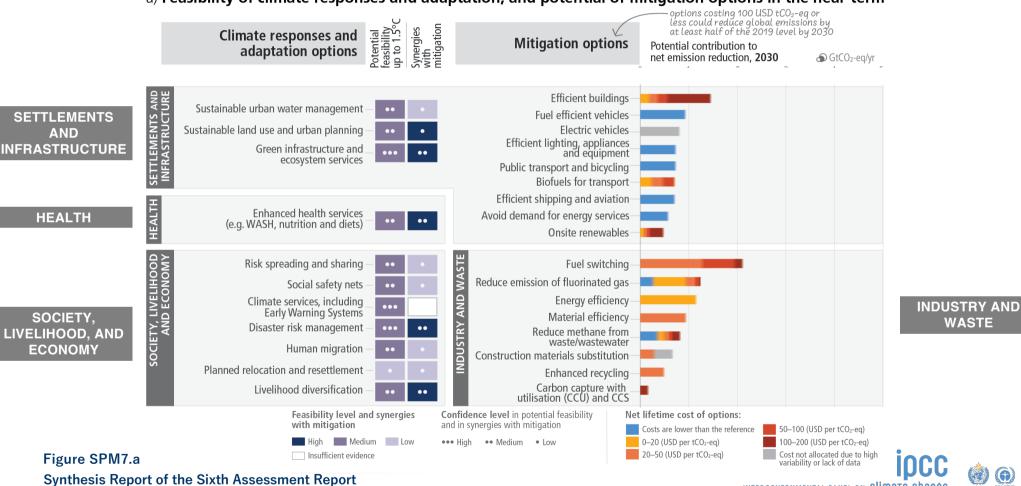
a) Feasibility of climate responses and adaptation, and potential of mitigation options in the near-term

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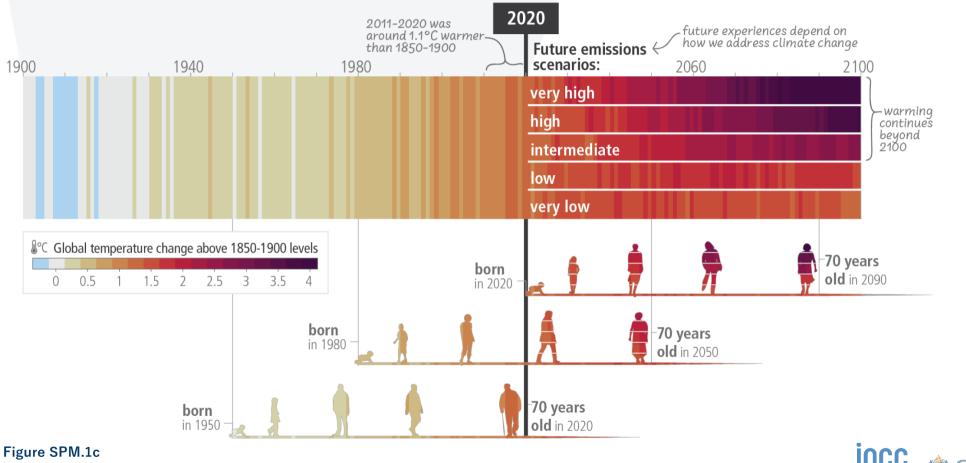
### There are multiple opportunities for scaling up climate action



a) Feasibility of climate responses and adaptation, and potential of mitigation options in the near-term

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### The extent to which current and future generations will experience a hotter and different world depends on choices now and in the near term



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#### IPCC

https://www.ipcc.ch

AR6 Synthesis Report

https://www.ipcc.ch/report/sixth-assessment-report-cycle/

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