



Climate, Nature, and Insurance: Driving Sustainability in Asia

September 15, 2026
Masayuki Tanaka
FALIA

Today's Agenda (In order of presentation)

1. FALIA Session: Key Environmental Issues for the Insurance Sector

Presentation by Mr Masayuki Tanaka, FALIA

2. Dr Naoyuki Okano, Programme Officer, UNU-IAS

3. Ms Umang Vats, Asia-Pacific Regional Analyst, UNEP FI

4. Mr Sara Lamsam, CEO, Muang Thai Life Assurance

5. Mr Tatsuya Sudo, MS&AD Insurance Group Holdings

6. Discussion Moderated by Mr Masayuki Tanaka, FALIA



Masayuki Tanaka



Dr. Naoyuki Okano



Ms. Umang Vats



Mr. Sara Lamsam



Mr. Tatsuya Sudo

Why Sustainability Matters for the Insurance Sector?



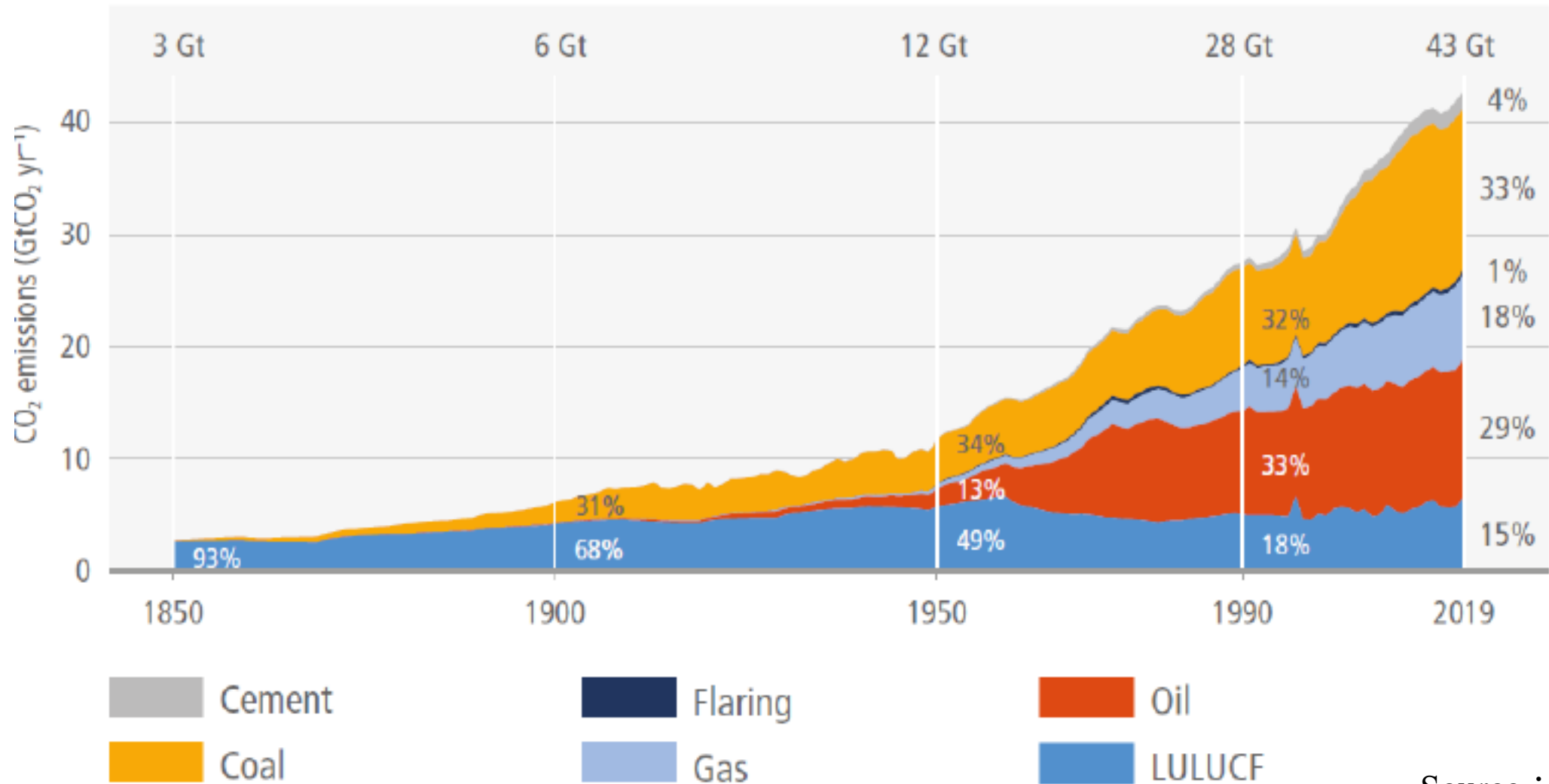
**ESG (Sustainability)
Management**

Based on

Trust From Stakeholders

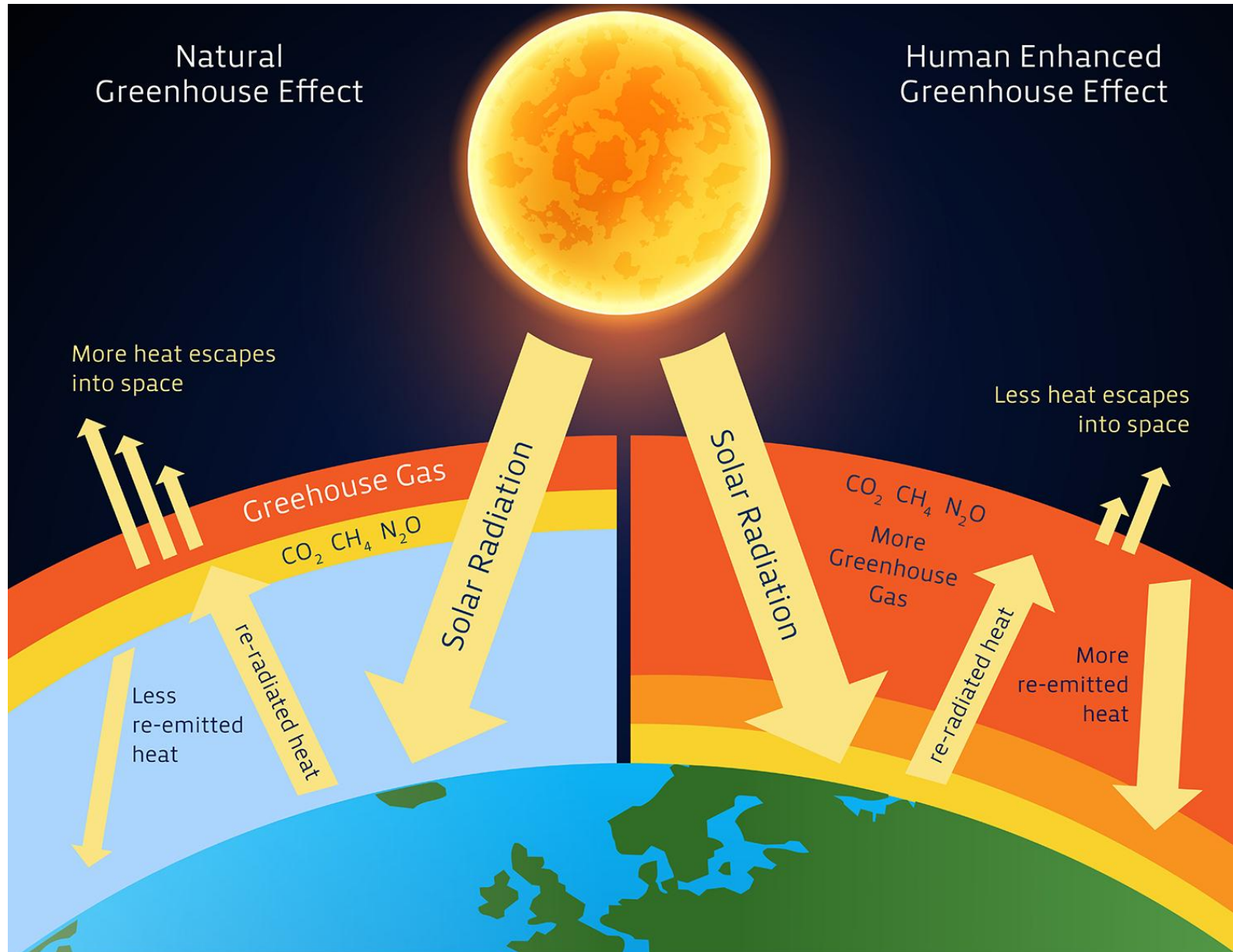
Cumulative CO₂ emissions

(a) Long term trend of anthropogenic CO₂ emissions sources



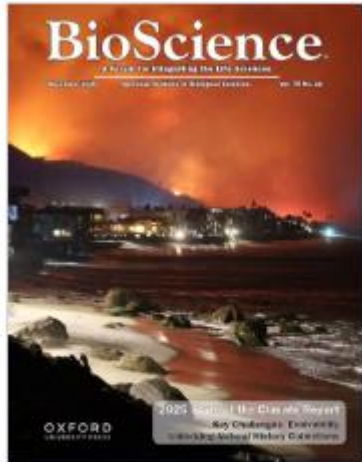
Source : AR6/WG3
chapter 2, Figure 2.7

Why Does CO₂ Warm the Earth?

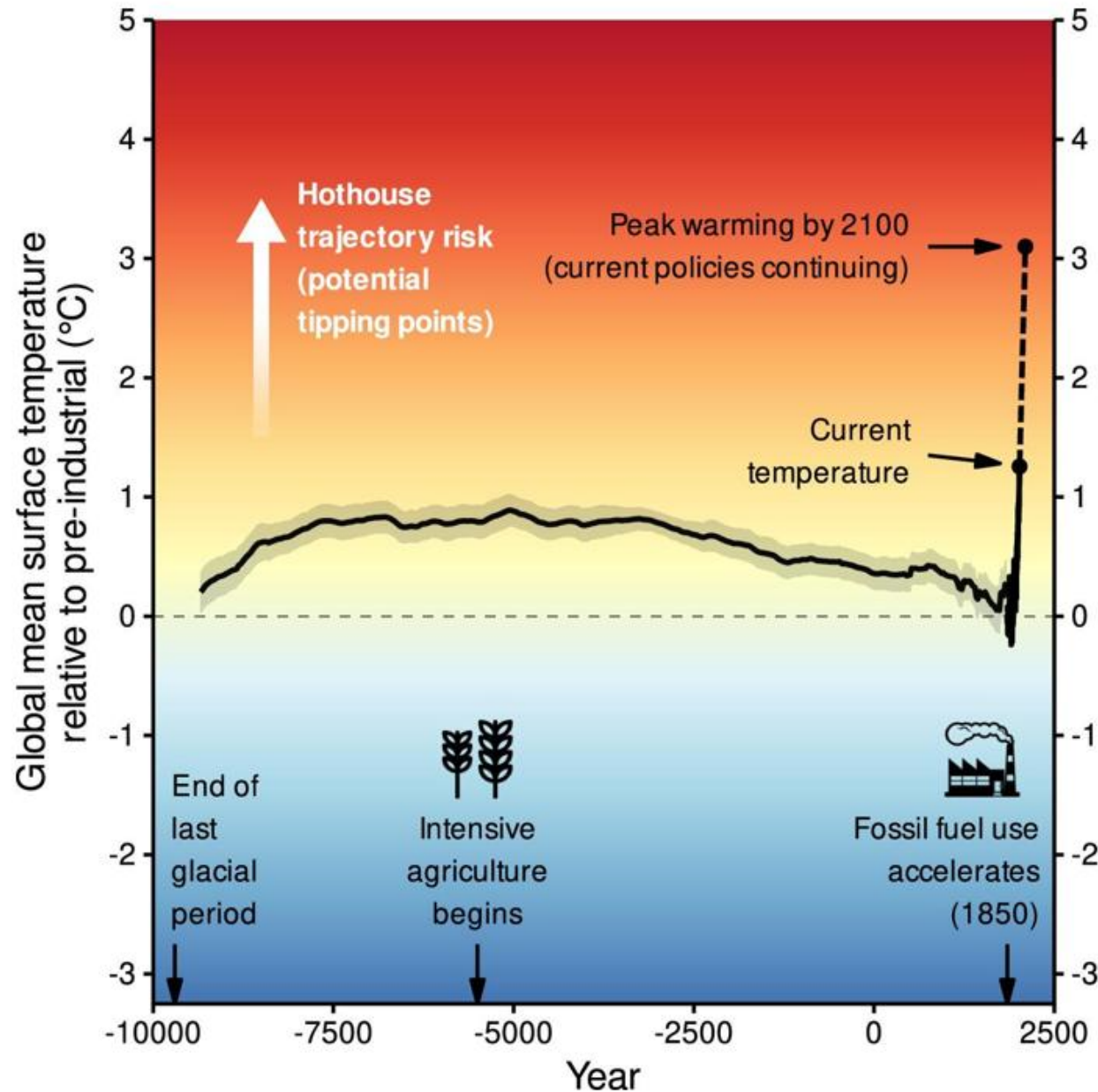


- 1 Sunlight warms the Earth**
- 2 Earth emits infrared radiation**
- 3 CO₂ and other greenhouse gases absorb and re-radiate heat**
- 4 Heat gets trapped, temperature rises**

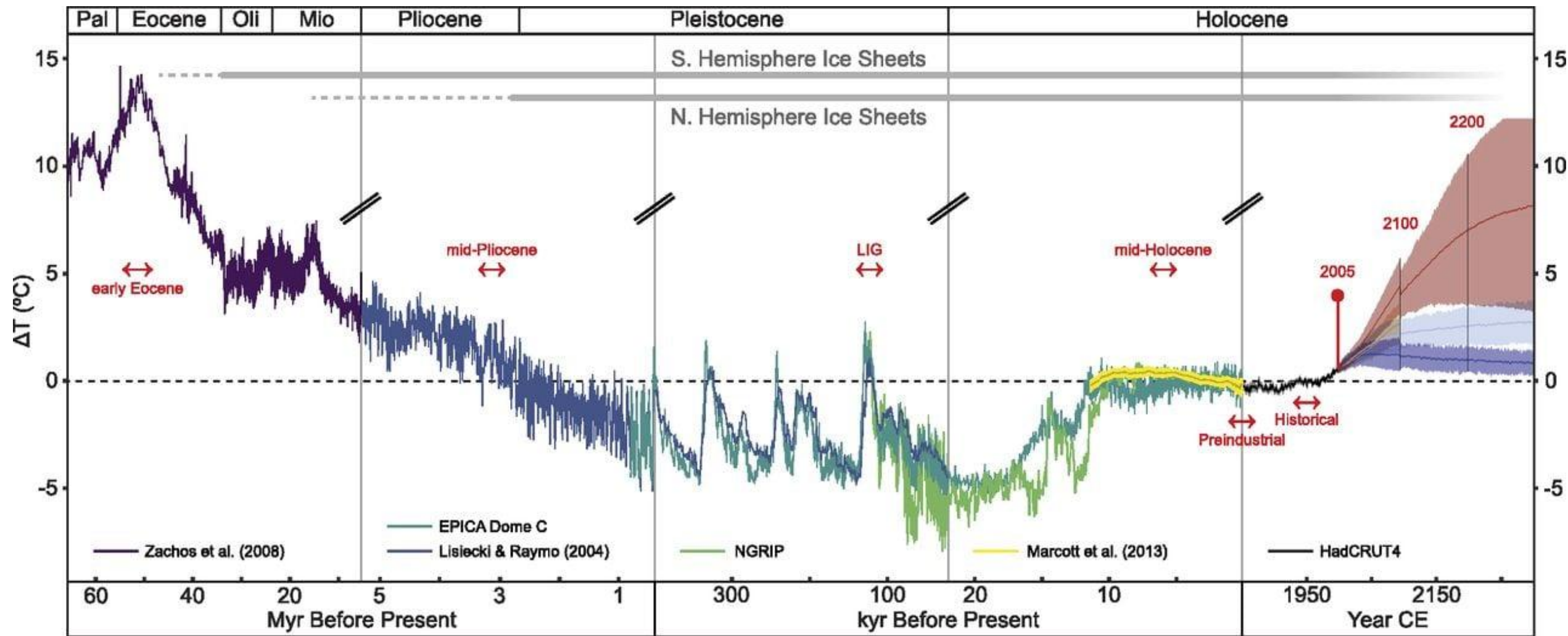
Approximate global average temperature from –9340 BCE to 2020 CE.



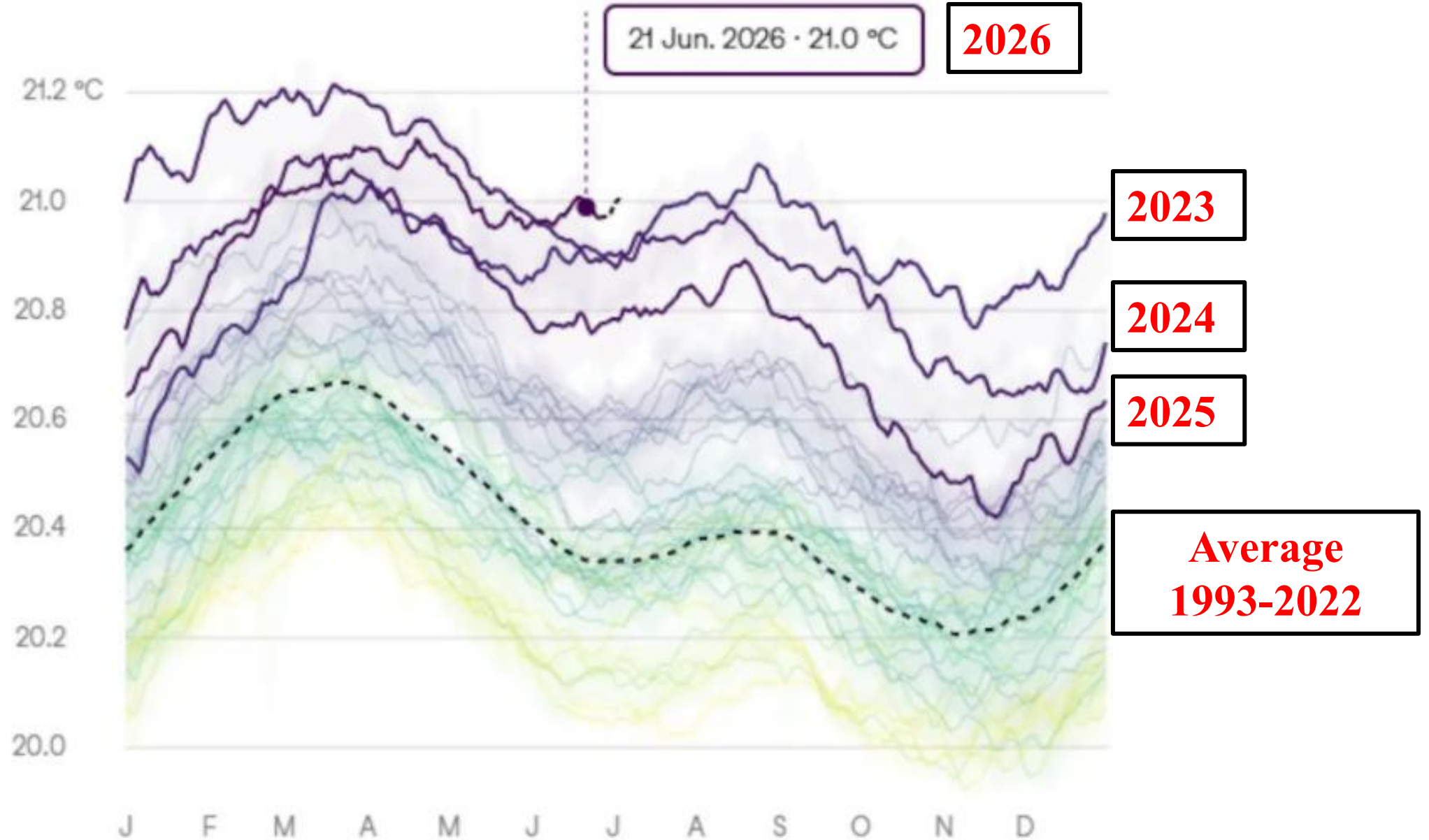
Volume 75, Issue 12
December 2025



Global land temperature



Global Sea Surface temperature - Monthly anomaly



What is IPCC?

[REPORTS](#)[SYNTHESIS REPORT](#)[WORKING GROUPS](#)[ACTIVITIES](#)[NEWS](#)[CALENDAR](#)[FOLLOW](#)[SHARE](#)

About the IPCC

The Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change.

[OVERVIEW_](#)[HISTORY](#)[STRUCTURE](#)[PREPARING REPORTS](#)[GENDER](#)[AD-HOC AND TASK
GROUPS](#)[FUTURE WORK](#)[SCHOLARSHIP](#)[ENGAGE](#)[CONTACT](#)

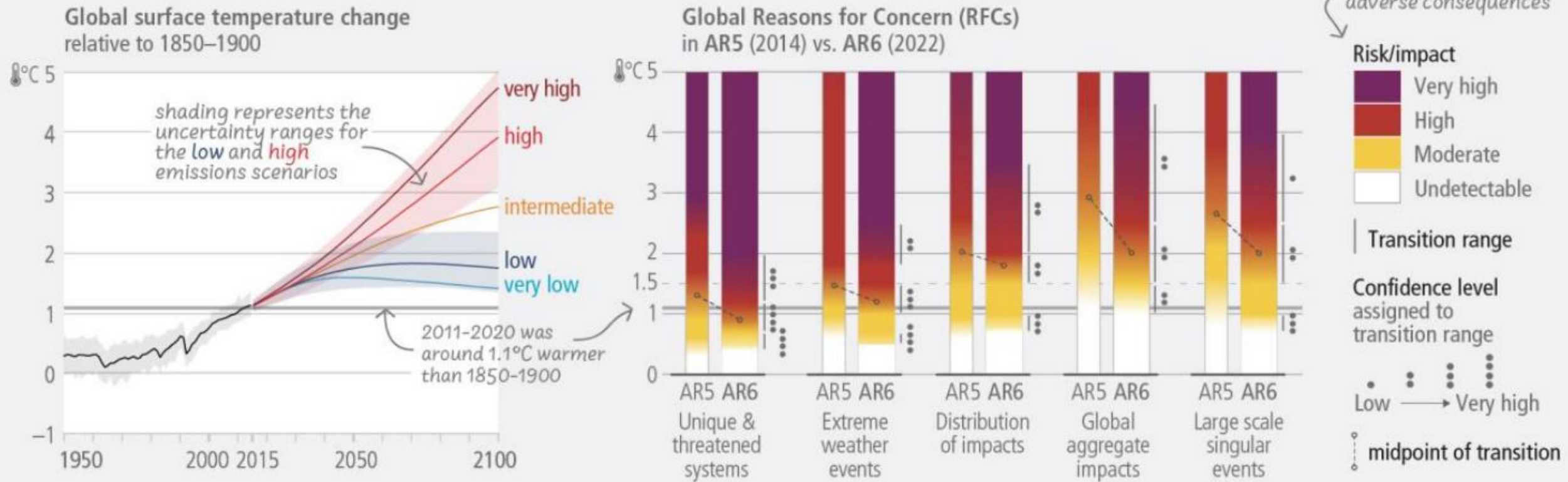
“It is **unequivocal** that human influence has warmed the atmosphere, ocean and land” (AR6)

<https://www.ipcc.ch/>

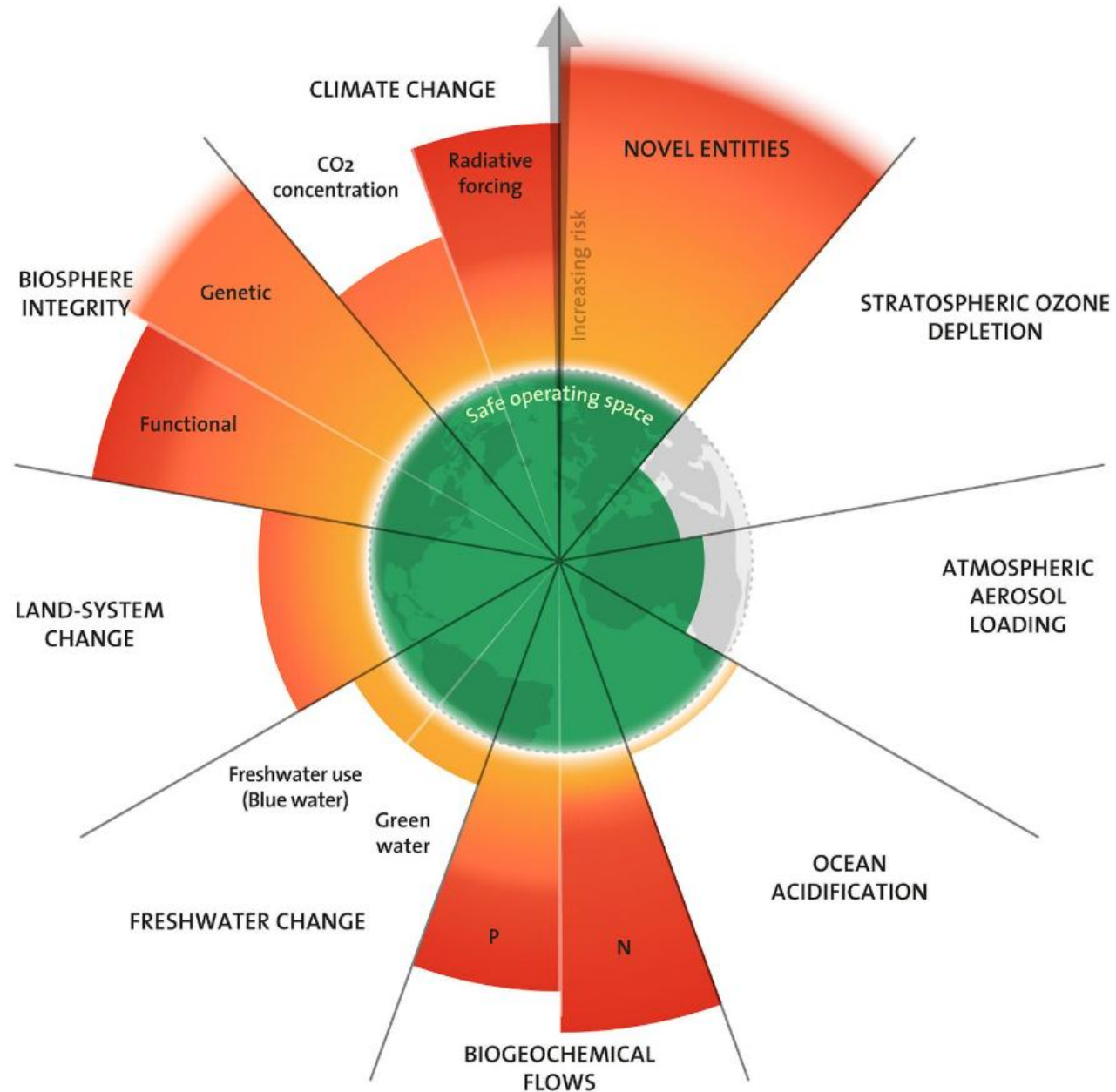
IPCC 6th Assessment Report (AR6)

Risks are increasing with every increment of warming

a) High risks are now assessed to occur at lower global warming levels



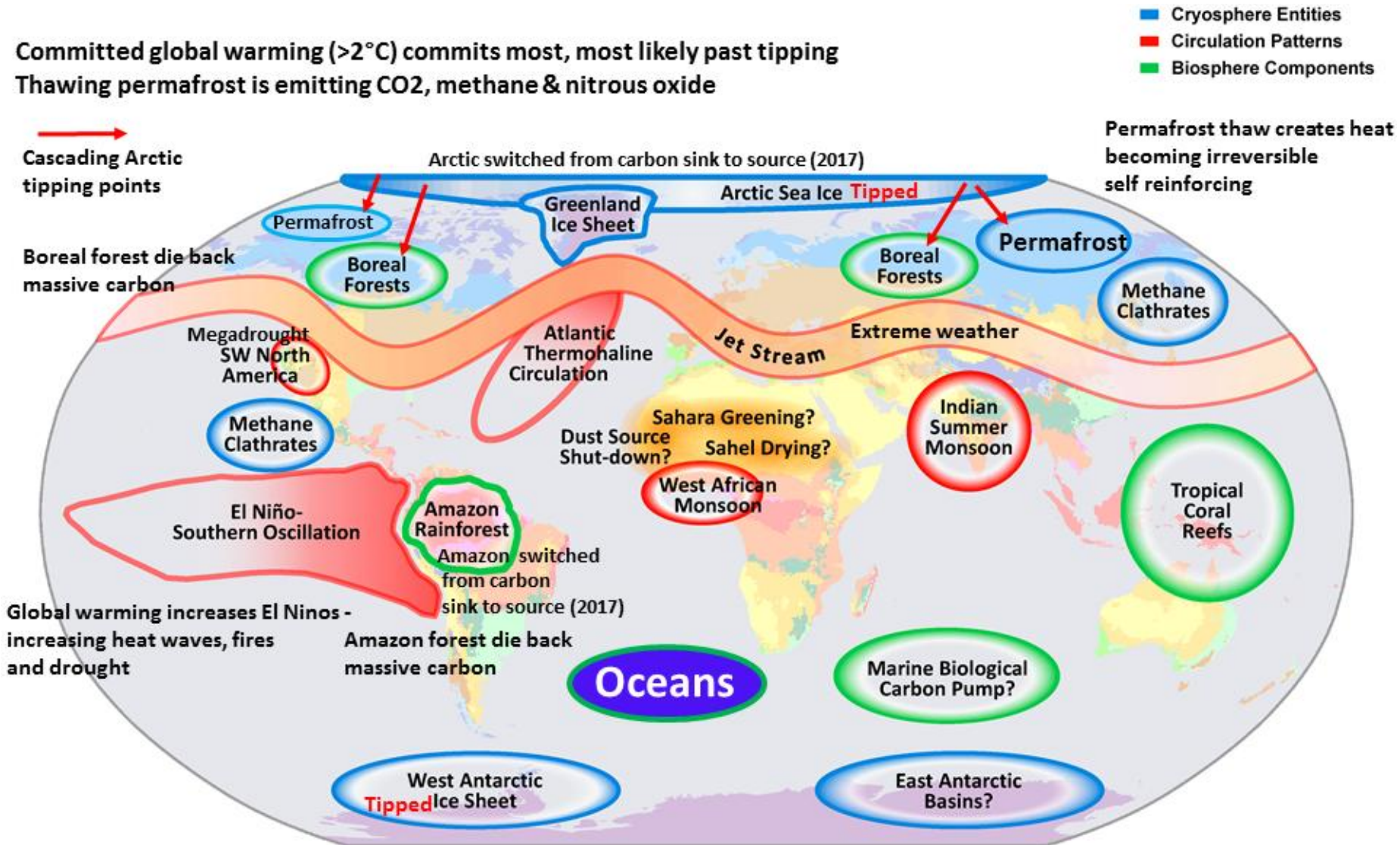
Planetary Boundaries



Johan Rockström

Global Warming Vulnerable Tipping Points

Committed global warming ($>2^{\circ}\text{C}$) commits most, most likely past tipping
Thawing permafrost is emitting CO_2 , methane & nitrous oxide

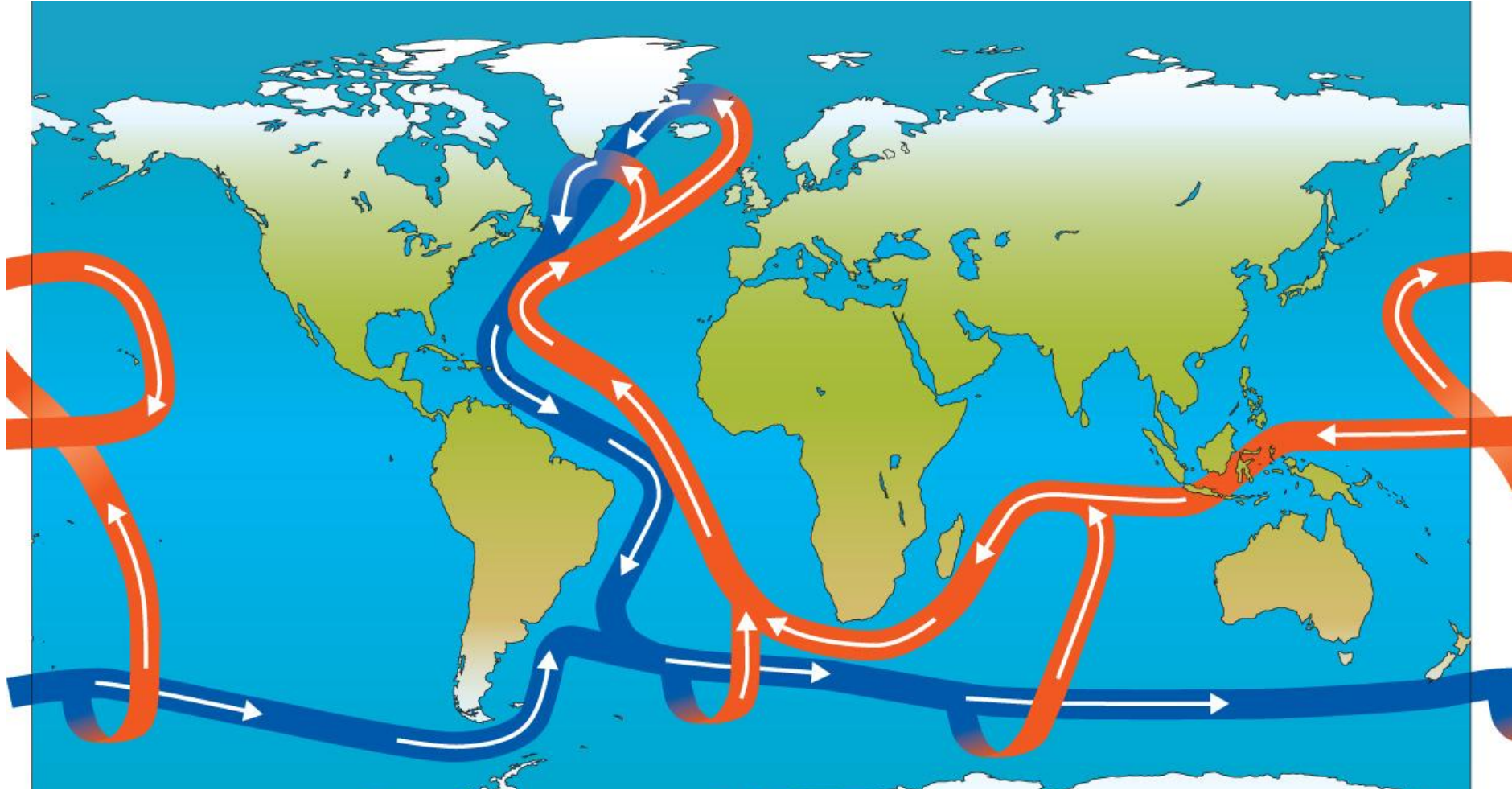


Oceans: Heating, Acidification & Deoxygenation

Adapted from Potsdam Climate Institute
Tipping Elements the Achilles Heels
of the Earth System

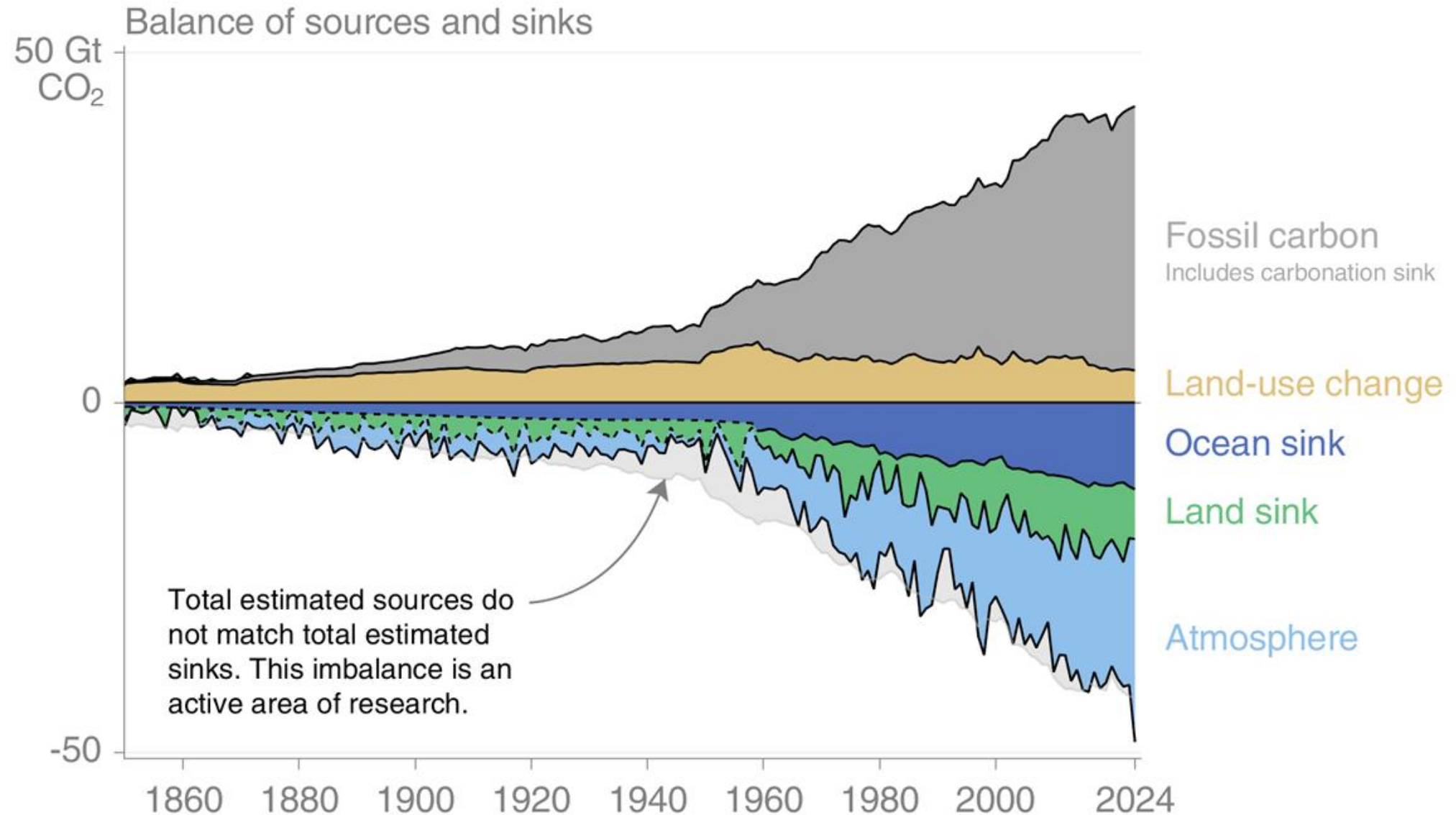
<https://www.pik-potsdam.de/en/output/infodesk/tipping-elements>

The Atlantic Meridional Overturning Circulation (AMOC)

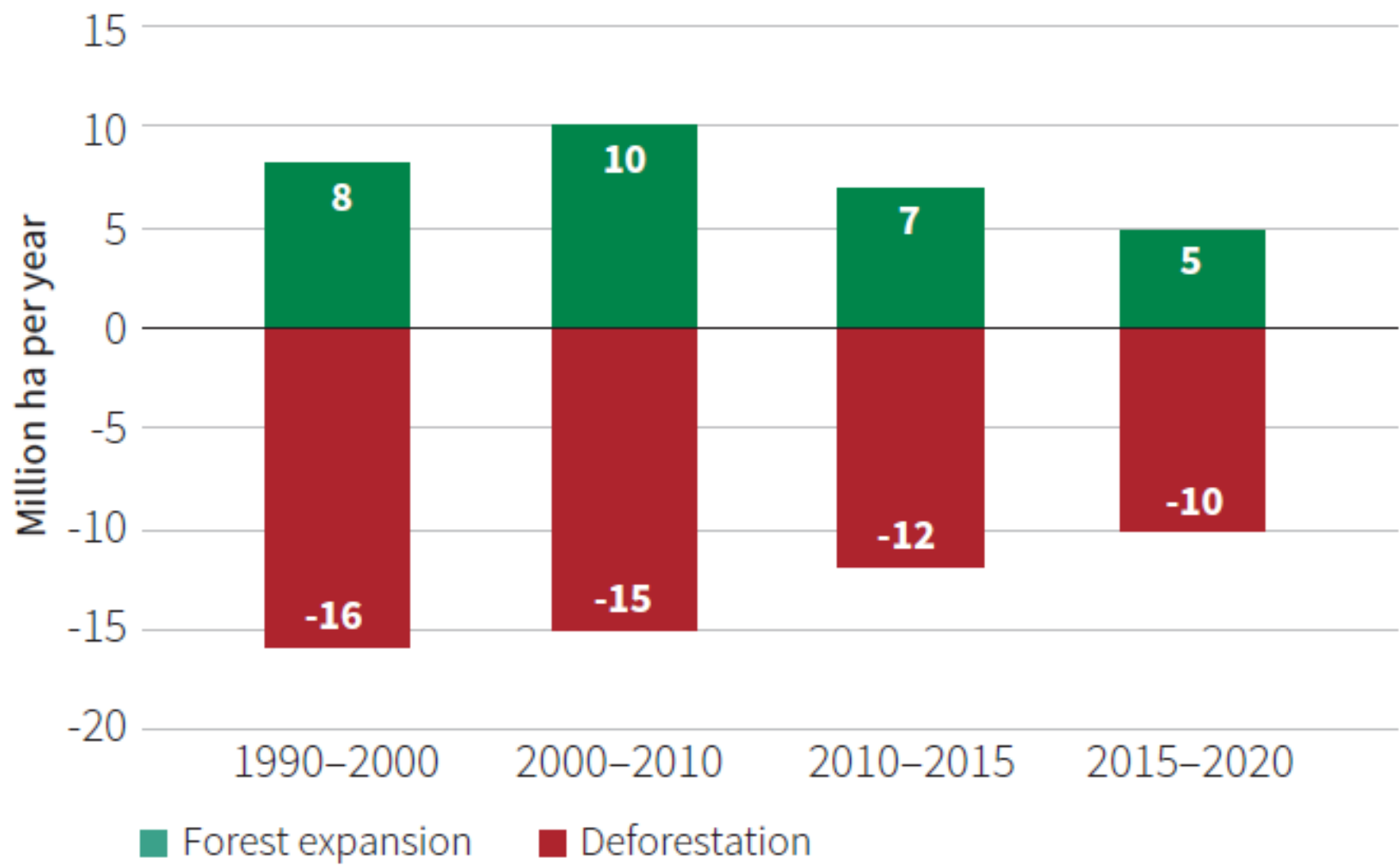


Mechanism: The AMOC is driven by differences in water temperature and salinity, which affect water density. Warm, salty water flows northward near the surface, cools, and sinks in the North Atlantic, then flows back southward at deeper levels

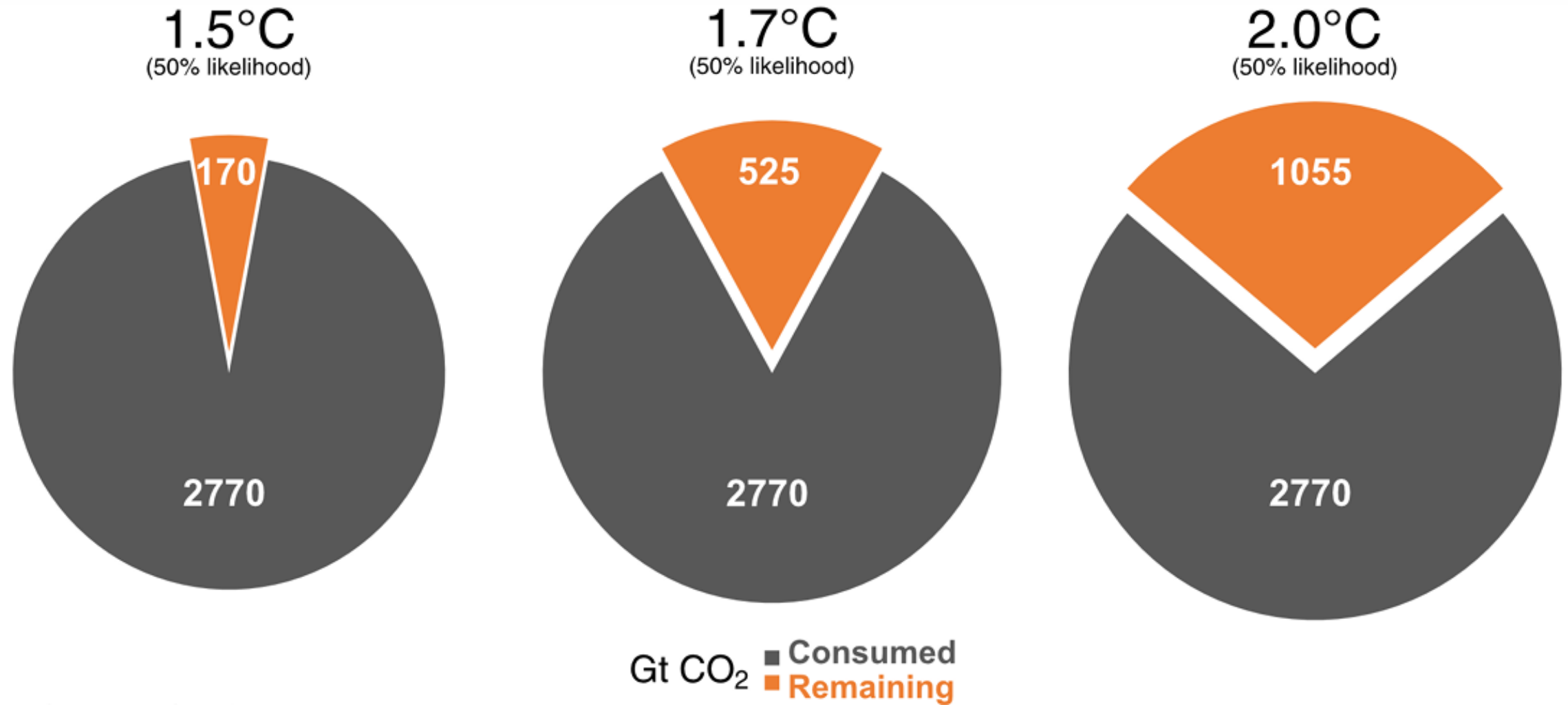
Global Carbon Sink



Annual rate of forest expansion and deforestation, 1990–2020



Remaining Carbon Budget



Nepal on alert

Nepal on alert as Bhoté Koshi River flow increases amid flash flood crisis.

IMAGE SOURCE : INDIA TV