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Climate change... ...is changing

Bjørn H. Samset
Senior Researcher / Professor
Norges Bank, 21.10.2025

**The impacts of human induced climate change
are becoming clearer, and more damaging, year by year**

2022: Pakistan



2023: Canada



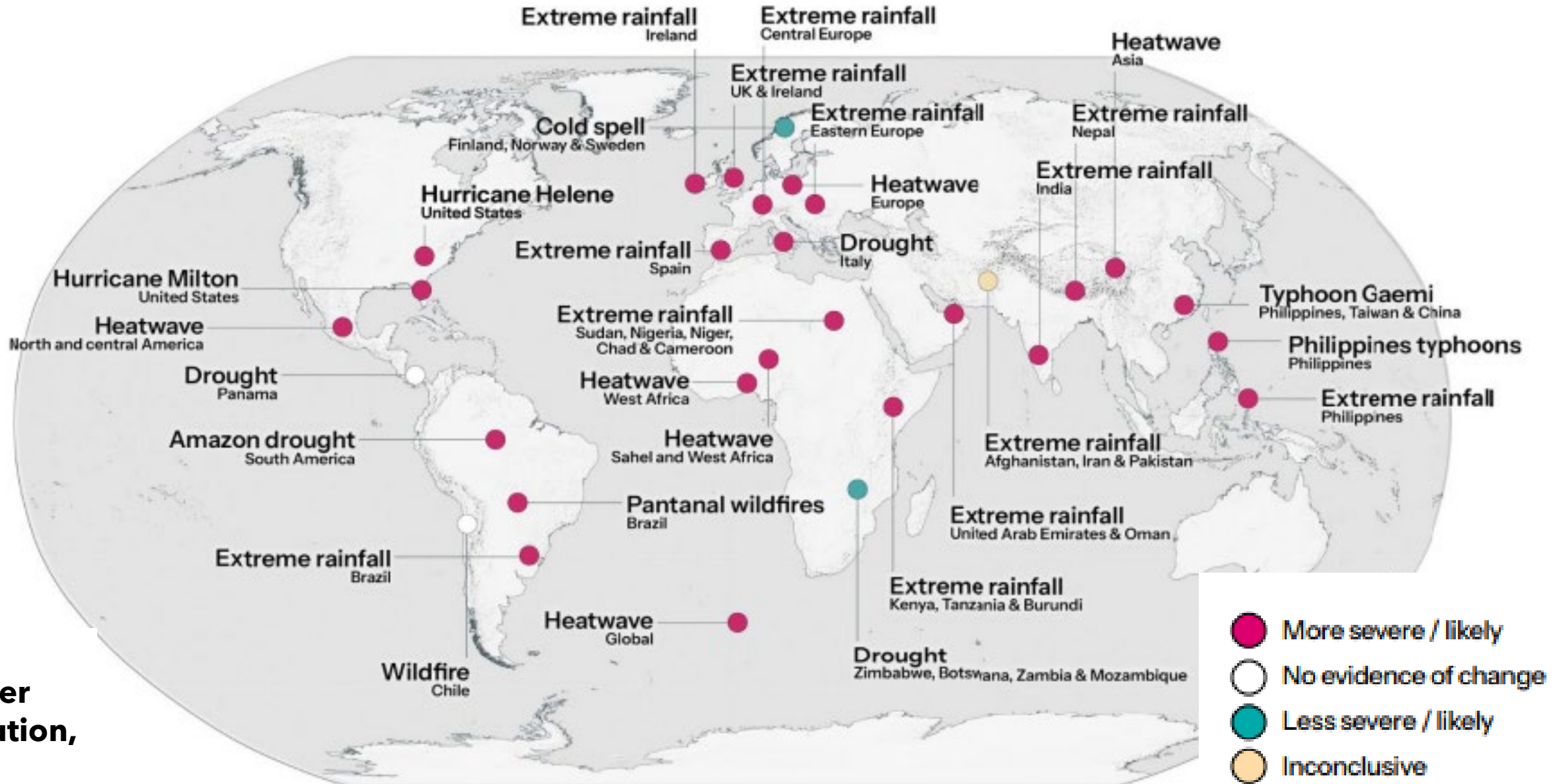
2024: Spain



2025: Nepal



Extreme weather events in 2024 were almost exclusively made more severe, more likely and more damaging by climate change



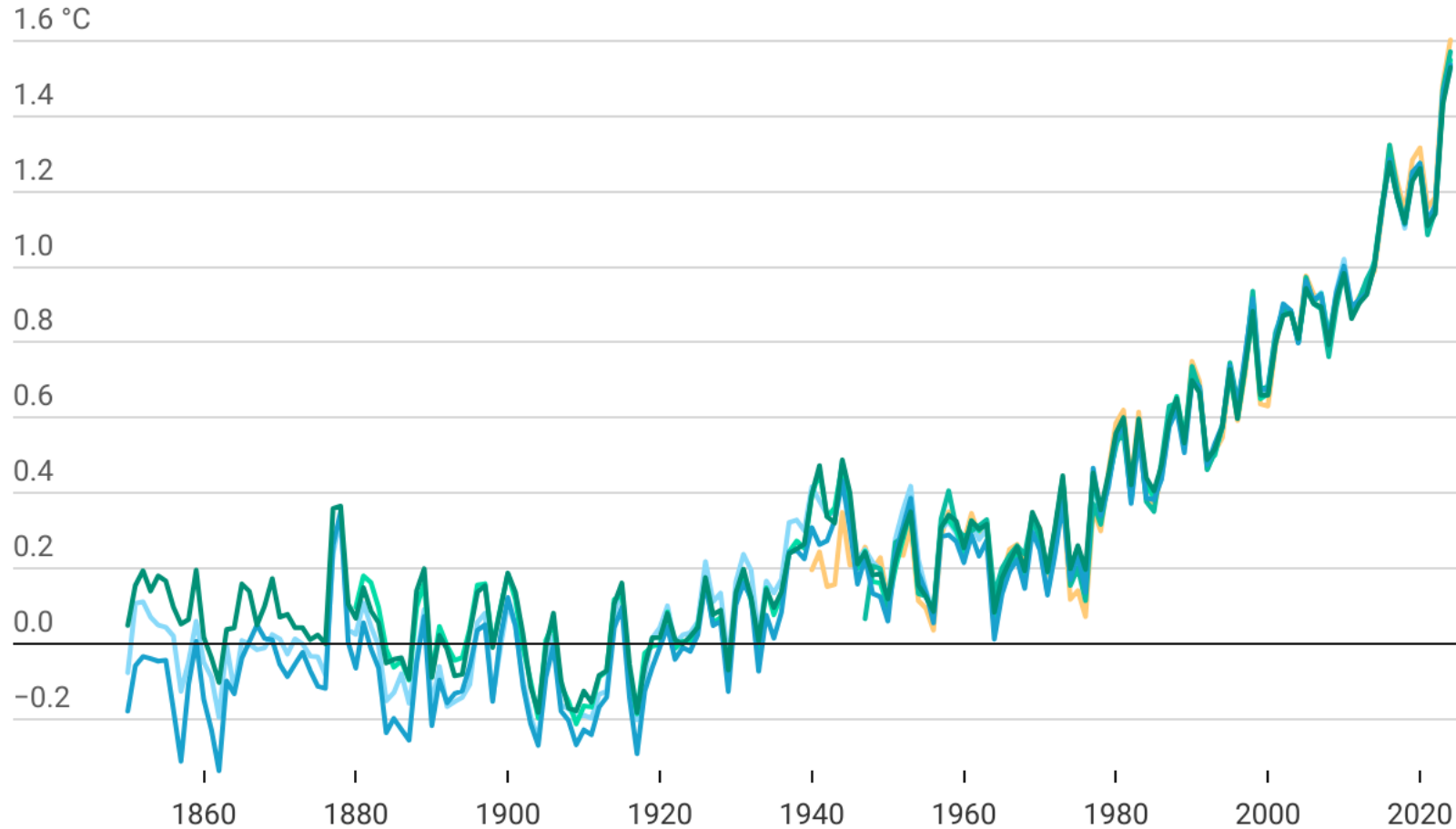
World
Weather
Attribution,
2025

The driving cause of extreme weather - global warming - is progressing faster than before, and we don't fully know why

Global mean temperature 1850-2024

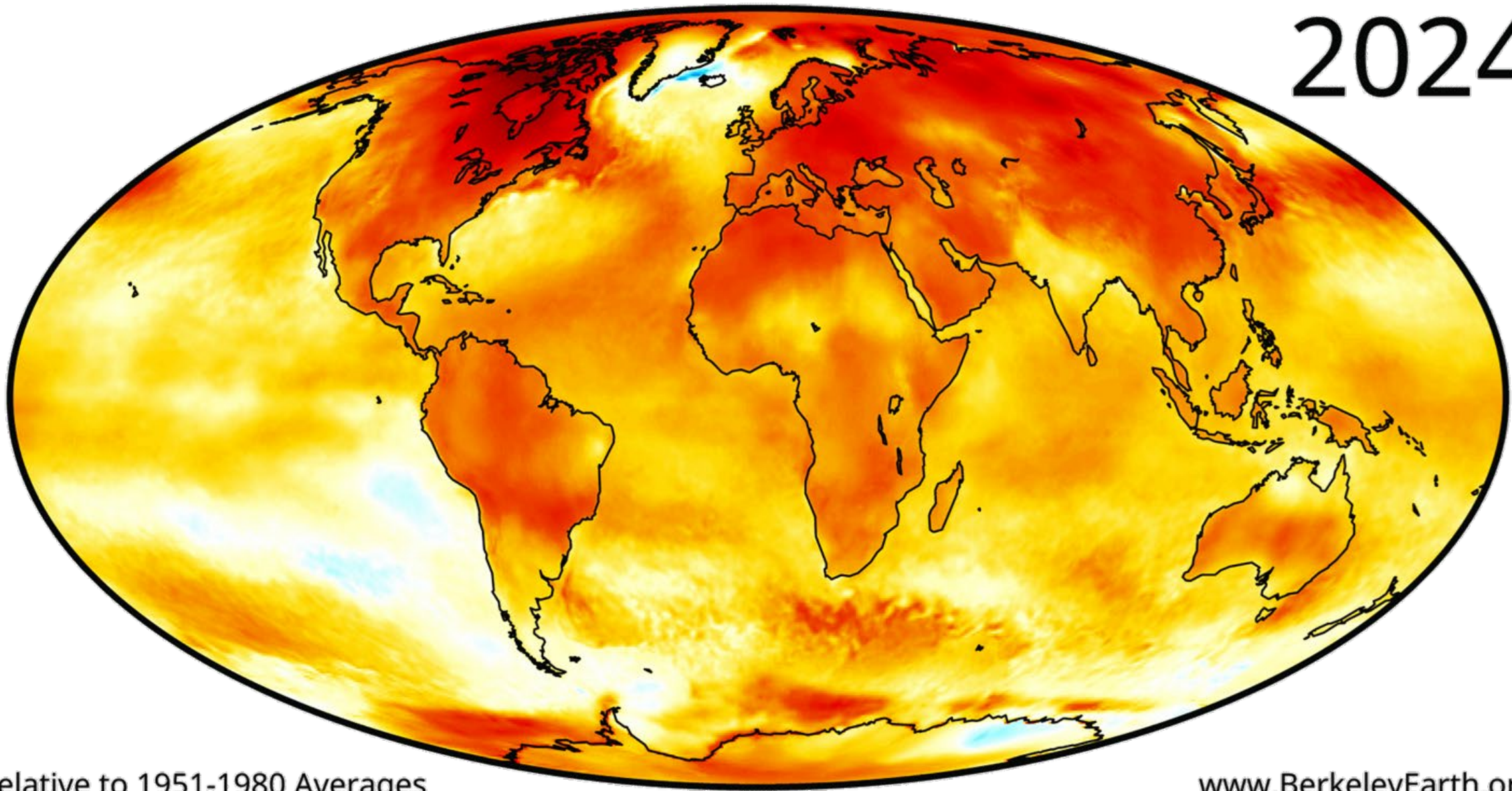
Difference from 1850-1900 average

— Berkeley Earth (1850-2024.12) — ERA5 (1940-2024.12) — GISTEMP (1880-2024.12) — HadCRUT5 (1850-2024.12) — JRA-3Q (1947-2024.12) — NOAA GlobalTemp v6 (1850-2024.12)



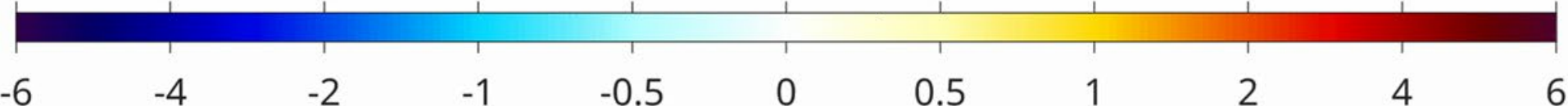
Annual global mean temperature anomalies relative to a pre-industrial (1850-1900) baseline shown from 1850 to 2024

2024



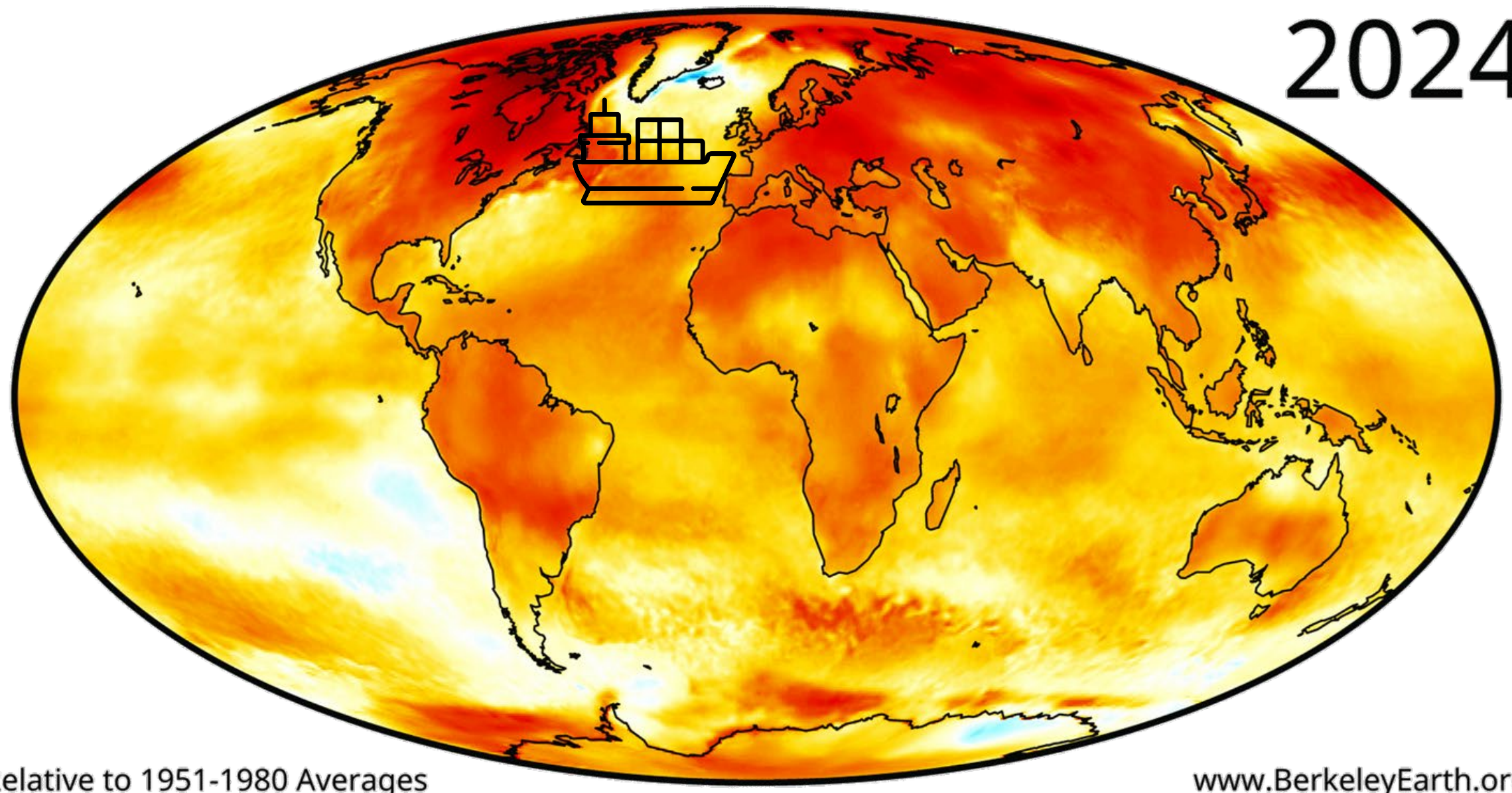
Relative to 1951-1980 Averages

www.BerkeleyEarth.org



Temperature Anomaly (° C)

2024



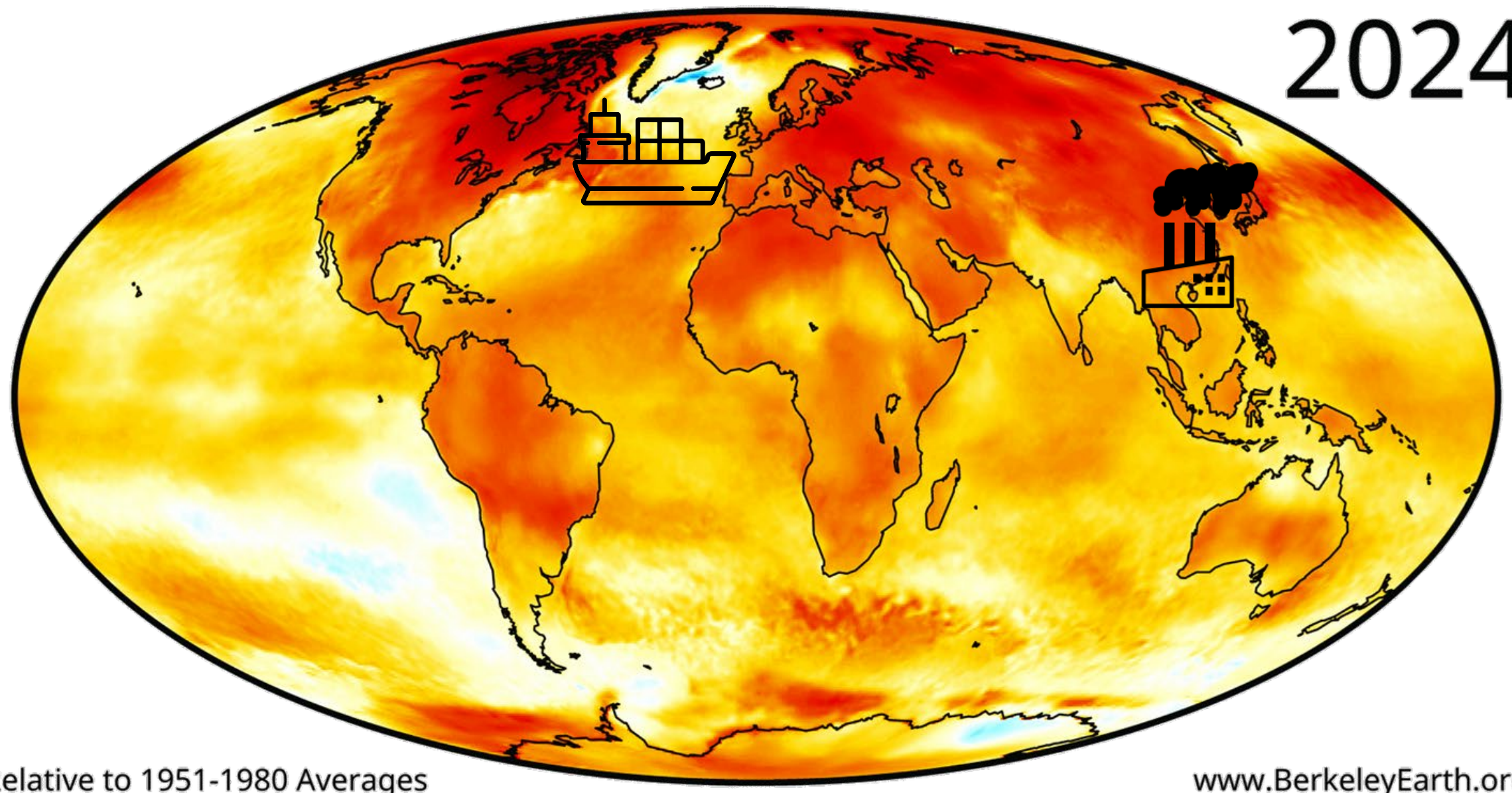
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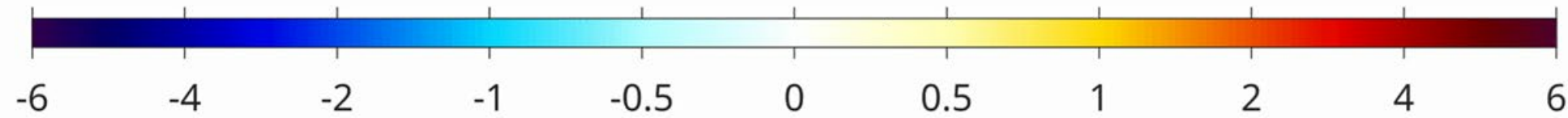
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2024



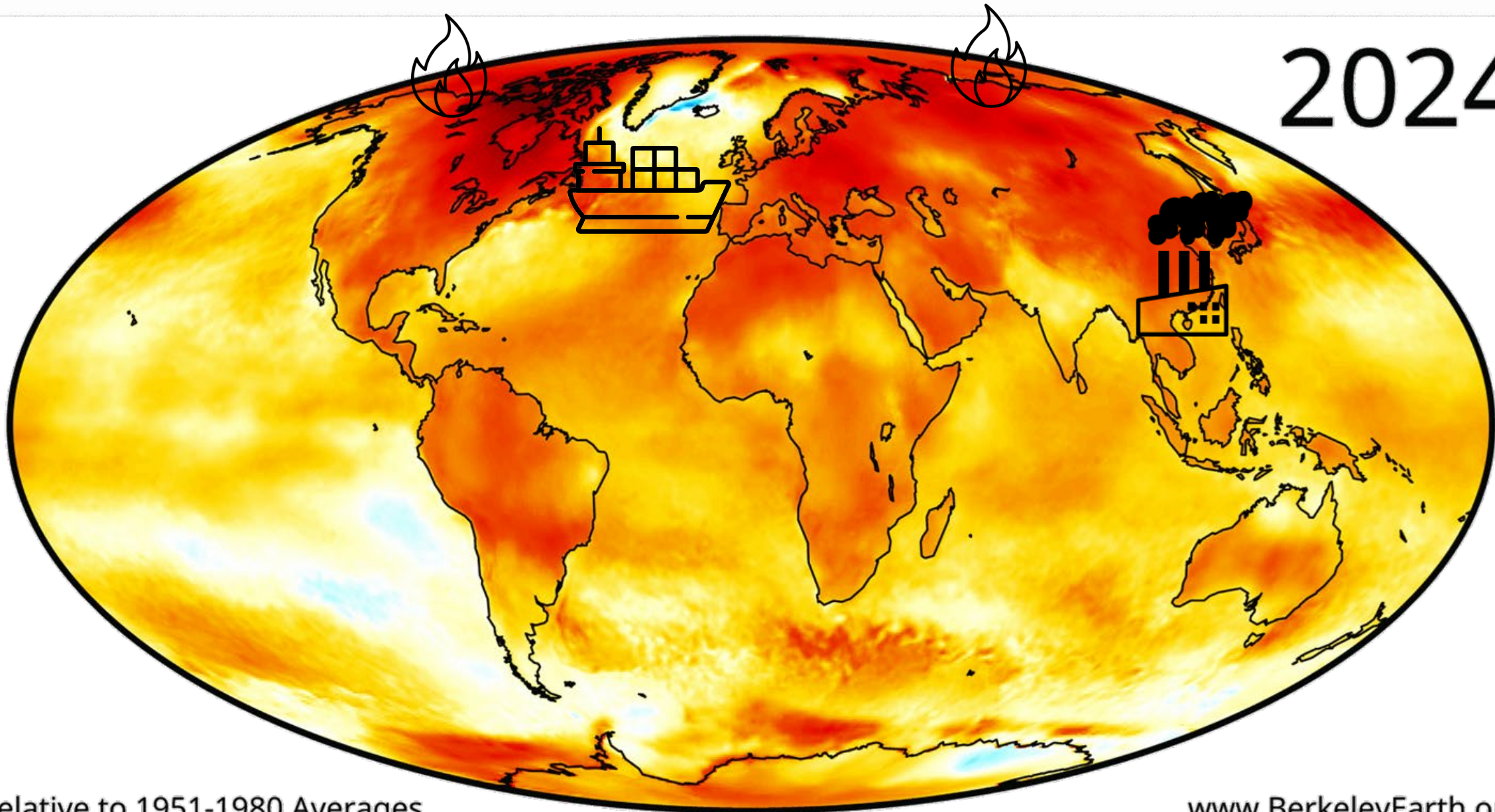
Relative to 1951-1980 Averages

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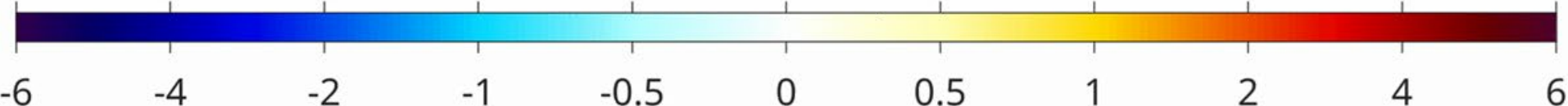
Temperature Anomaly ($^{\circ}$ C)

2024



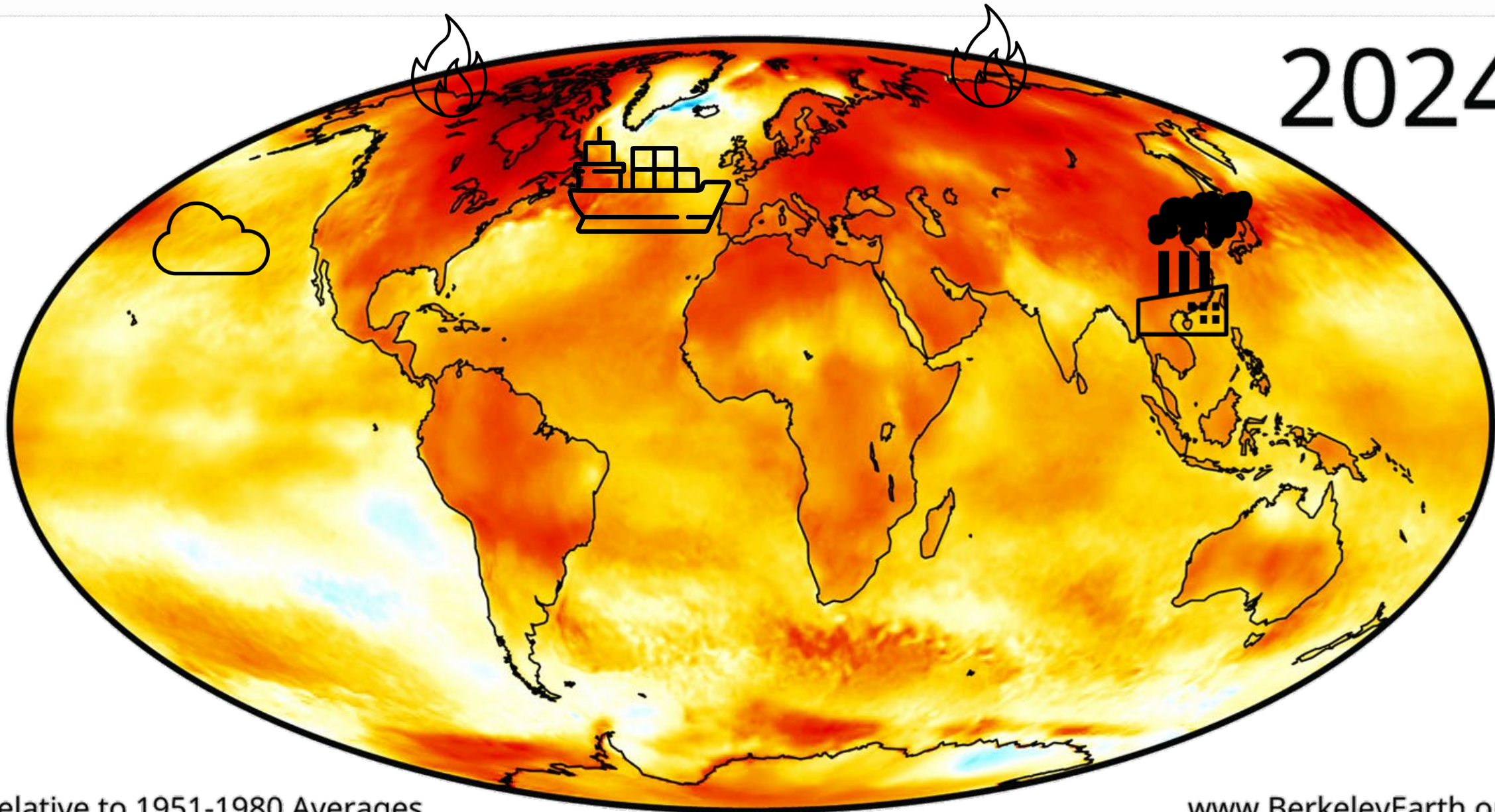
Relative to 1951-1980 Averages

www.BerkeleyEarth.org



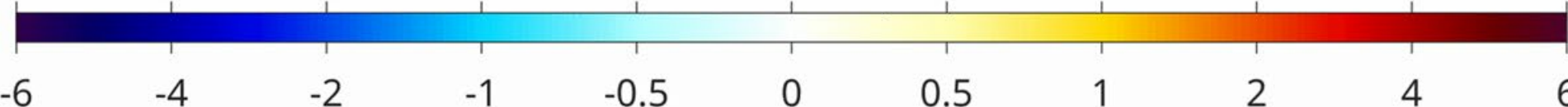
Temperature Anomaly (° C)

2024



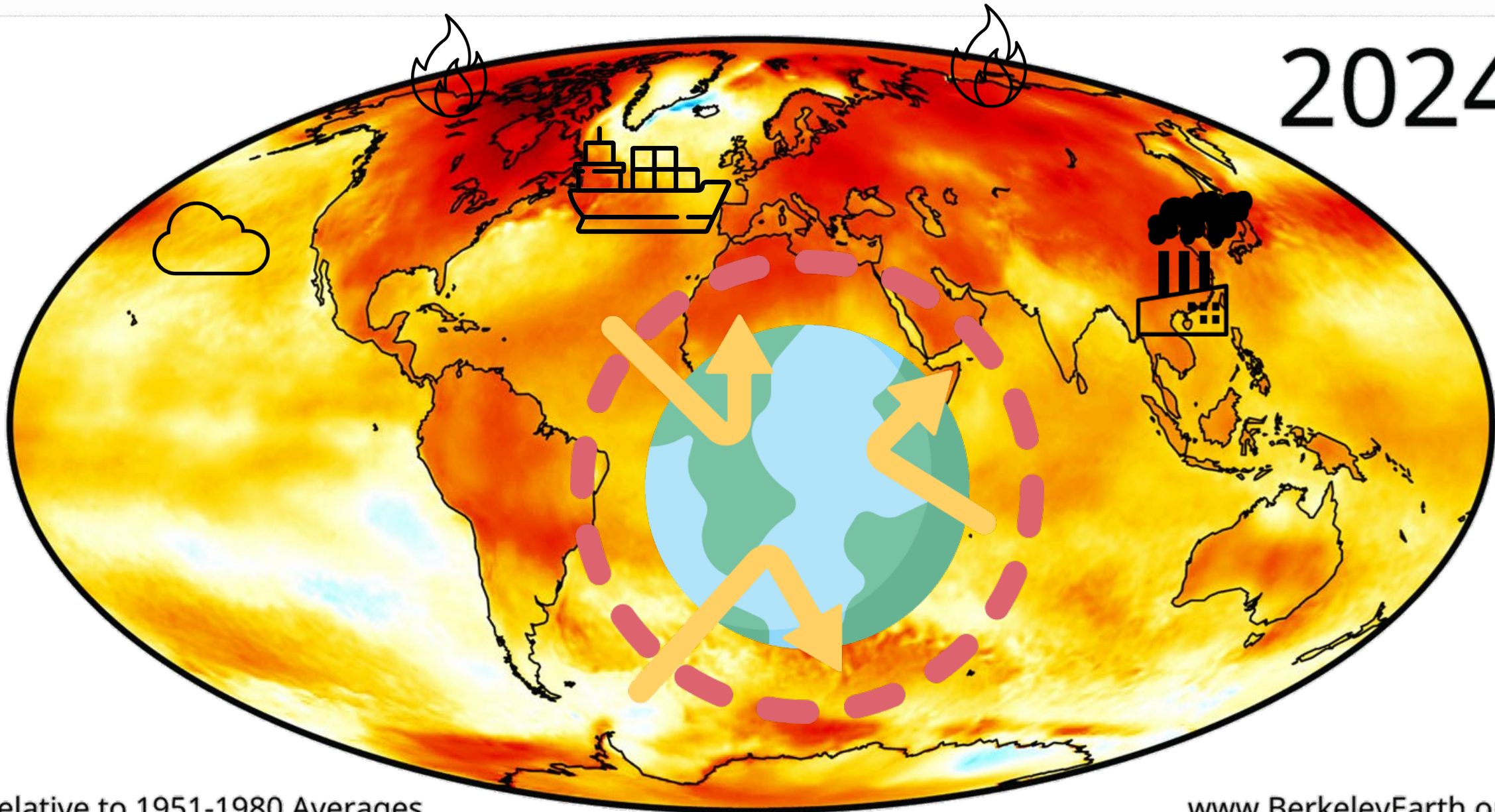
Relative to 1951-1980 Averages

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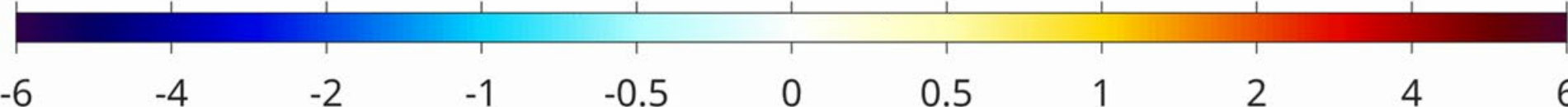
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2024



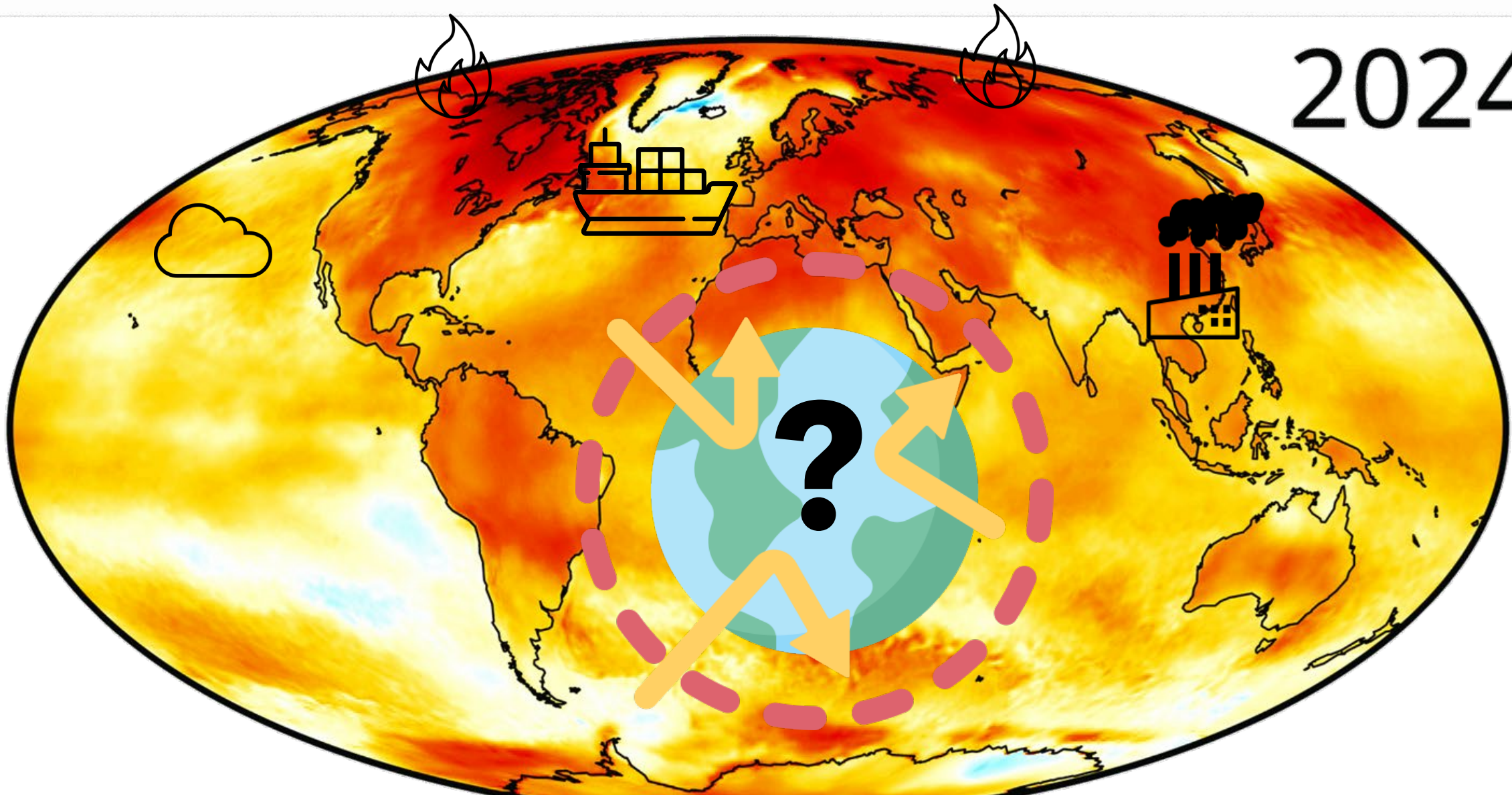
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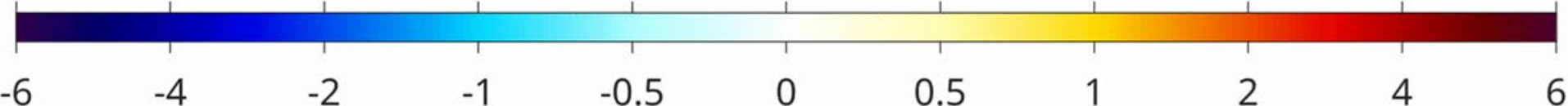
Temperature Anomaly (° C)

2024



Relative to 1951-1980 Averages

www.BerkeleyEarth.org



Temperature Anomaly (° C)

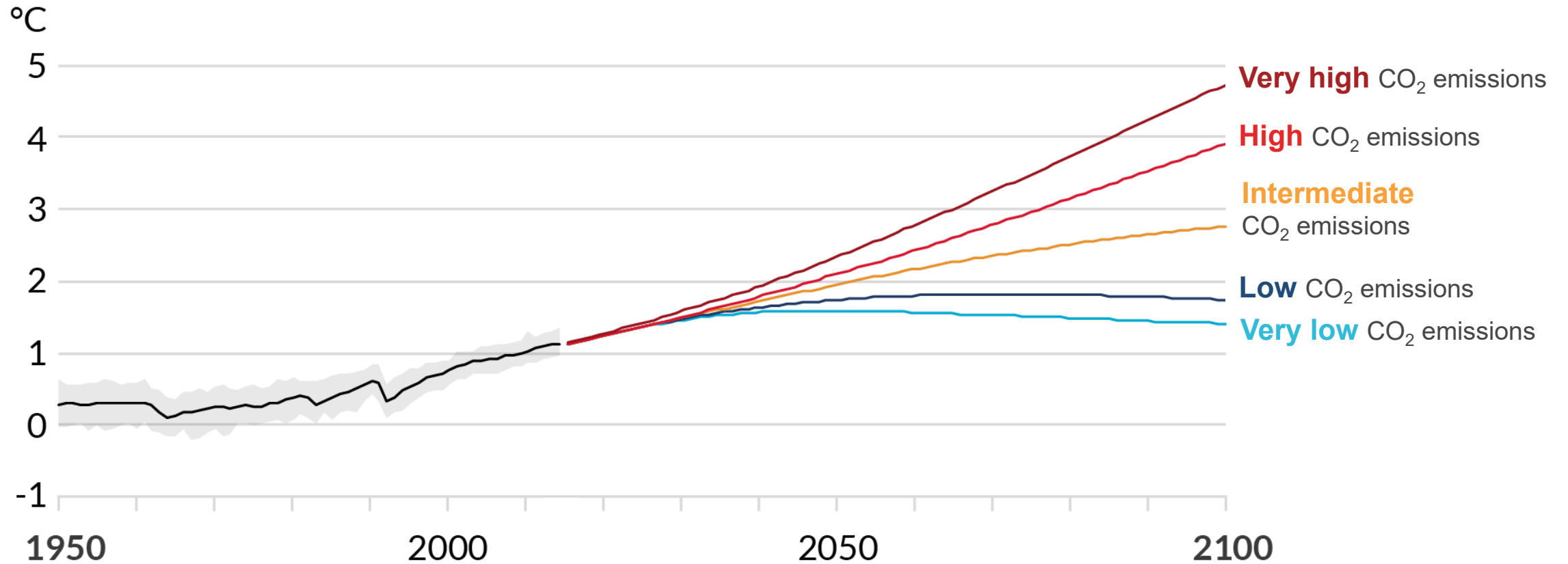
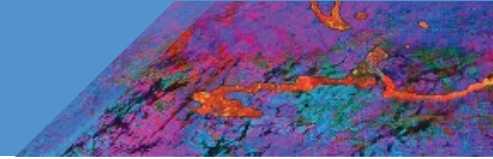
Global warming - and climate change - will keep progressing rapidly for several decades, regardless of our emission cuts

Thereafter, however, the choices we make today are what determine the consequences of the future

SIXTH ASSESSMENT REPORT

Working Group I – The Physical Science Basis

ipcc
INTERGOVERNMENTAL PANEL ON climate change

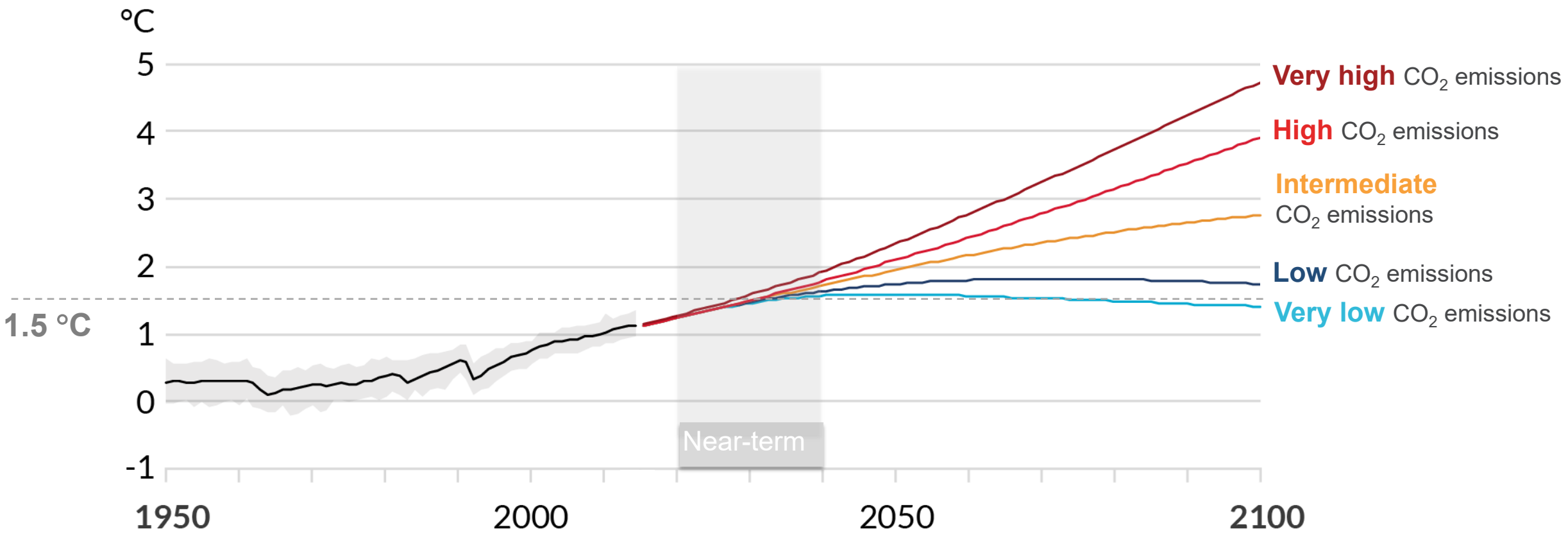
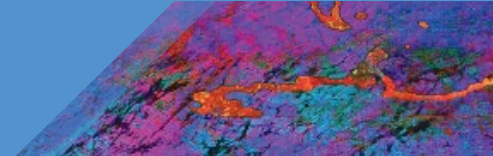


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INTERGOVERNMENTAL PANEL ON climate change



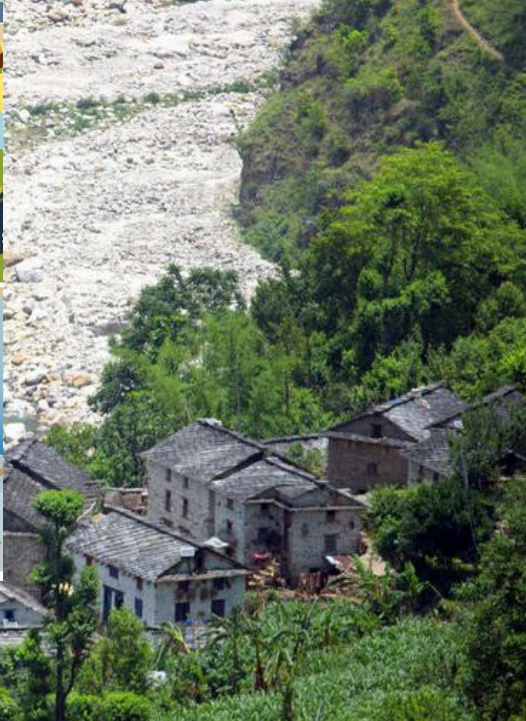
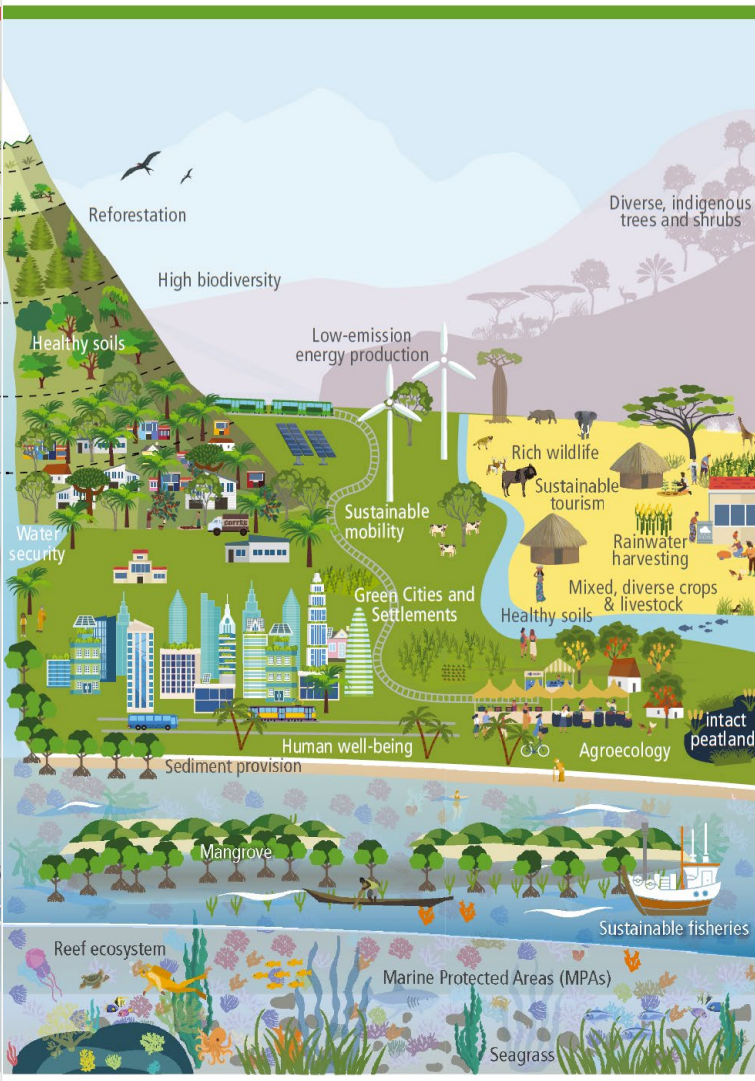




a) Human activities that degrade ecosystems also drive global warming and negatively impact nature and people



b) Human activities that protect, conserve and restore ecosystems contribute to climate resilient development



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Thank you

Bjørn H. Samset

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