

STORMS, FLOODING, & SEA LEVEL DEFENSE CONFERENCE 2024

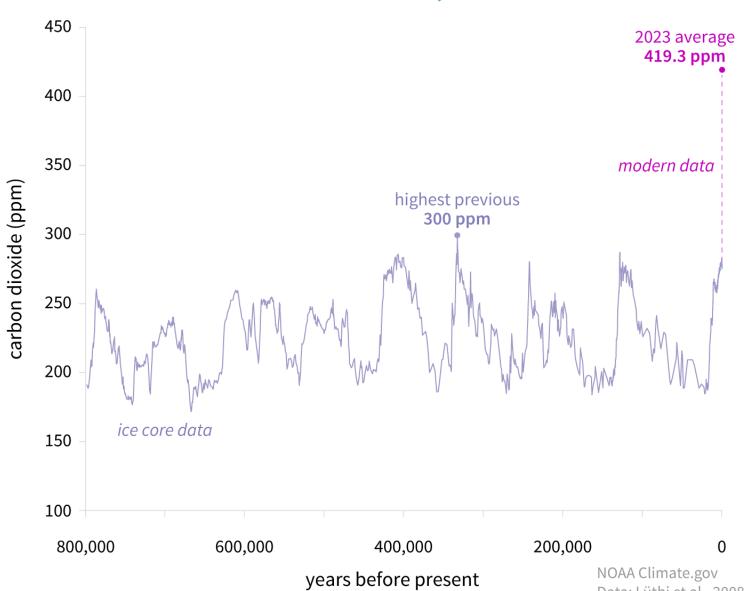


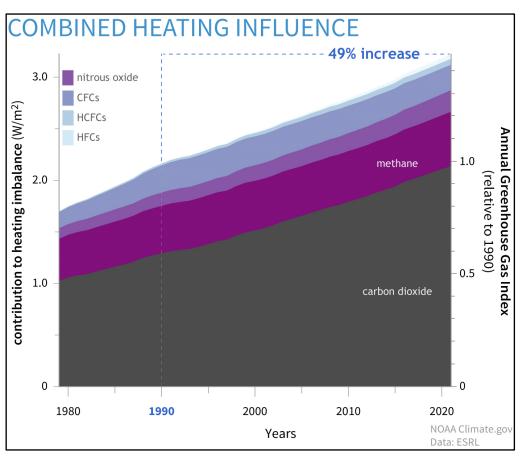


Greenhouse Gases

Data: Lüthi et al., 2008

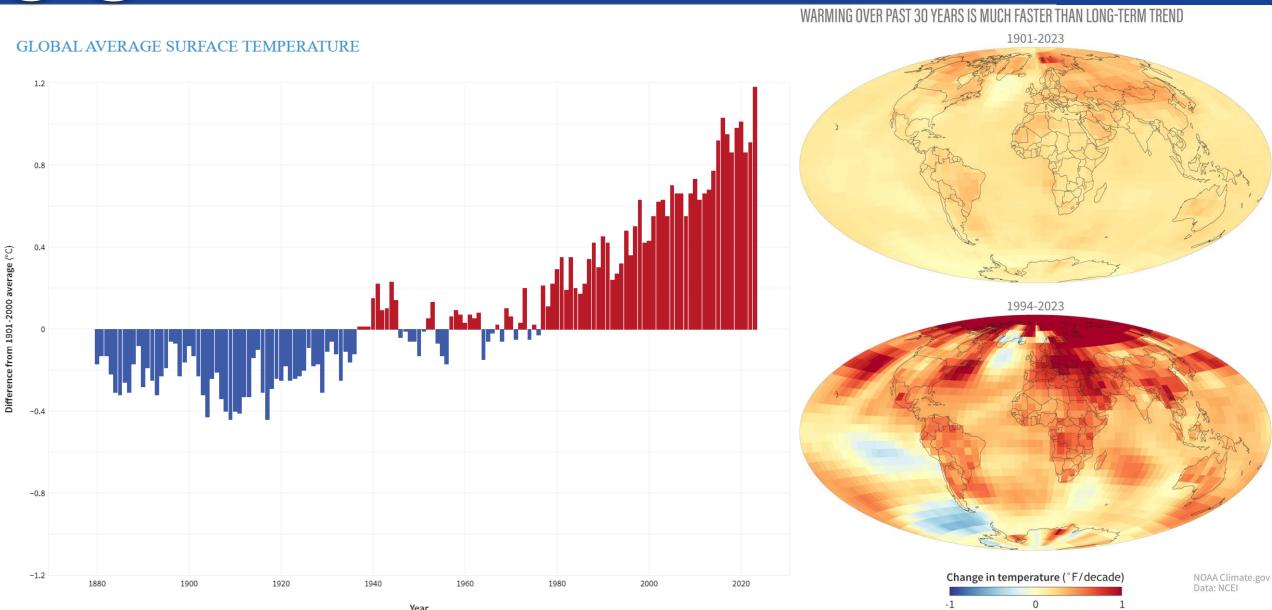
CARBON DIOXIDE OVER 800,000 YEARS







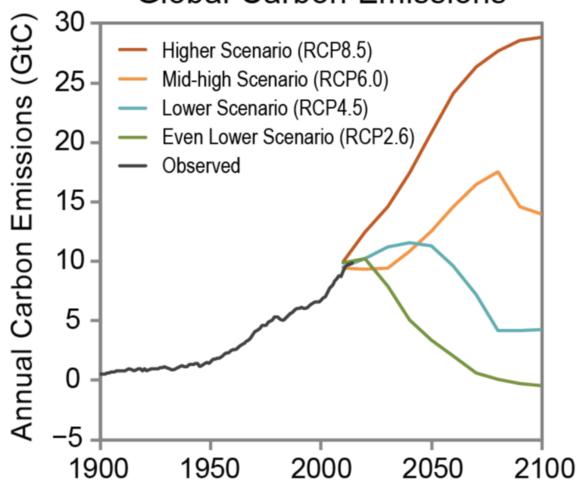
Surface (2m) Air Temperature



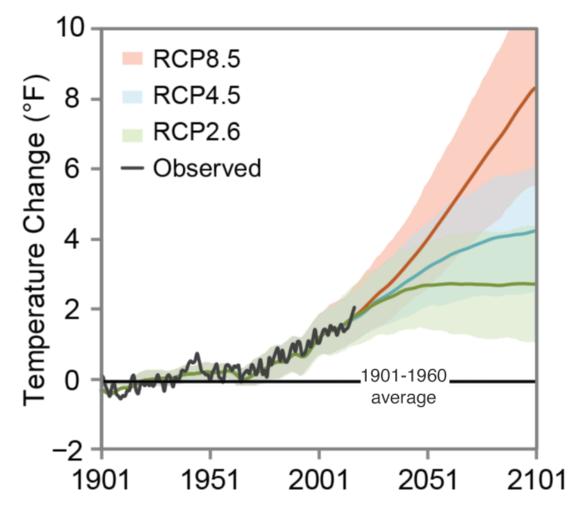


Projected GHG Emissions and Global Temperatures





Projected Global Temperatures



2017 Climate Science Special Report, Figure ES-3



In the News

NOVEMBER 7, 2024 2 MIN READ

Earth Will Exceed 1.5 Degrees Celsius of Warming This Year

This year won't just be the hottest on record—it could be the first to surpass 1.5 degrees Celsius. The Paris climate accord aims to keep warming below that level when looking over multiple years

BY ANDREA THOMPSON

Scientific America

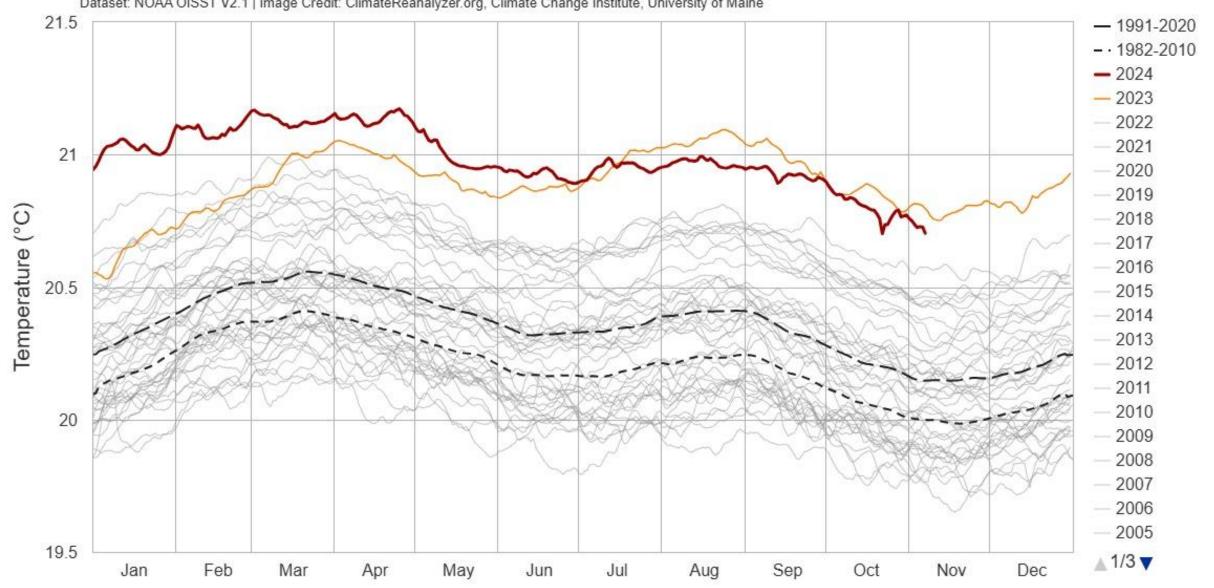
https://www.scientificamerican.com/article/2024-will-be-the-first-year-to-exceed-the-1-5-degree-celsius-warming/



Global Sea Surface Temperature

Daily Sea Surface Temperature, World (60°S-60°N, 0-360°E)

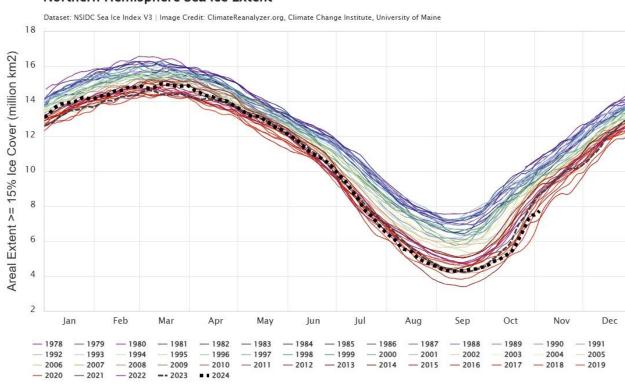
Dataset: NOAA OISST V2.1 | Image Credit: ClimateReanalyzer.org, Climate Change Institute, University of Maine



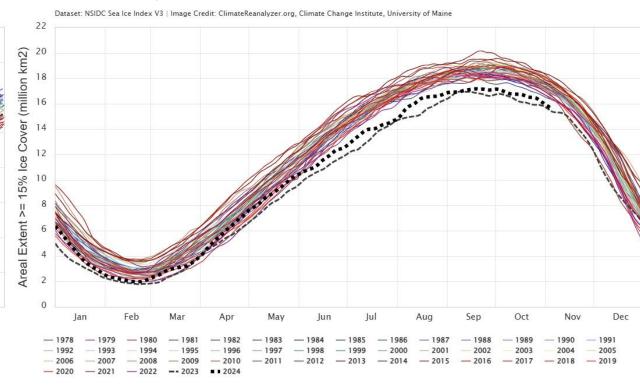


Sea Ice

Northern Hemisphere Sea Ice Extent



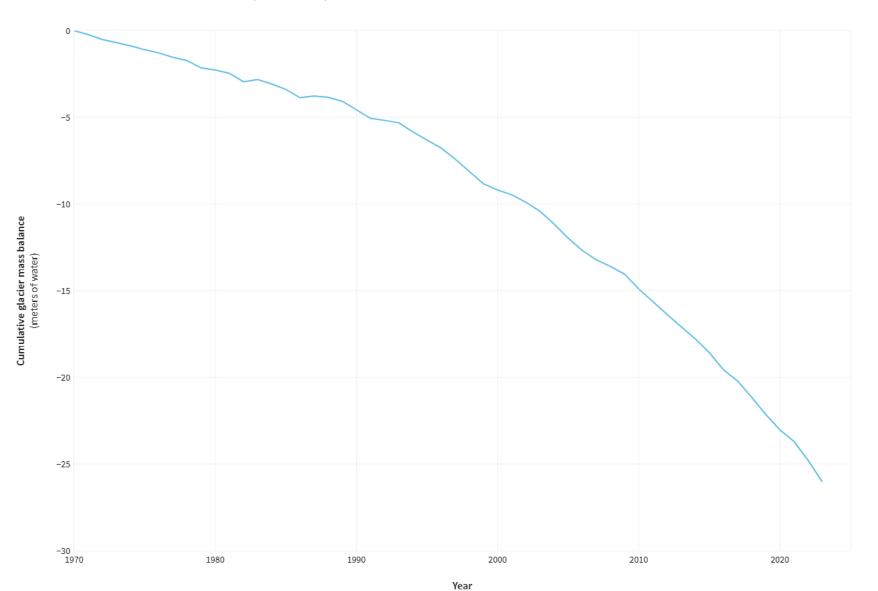
Southern Hemisphere Sea Ice Extent





Glacier Mass

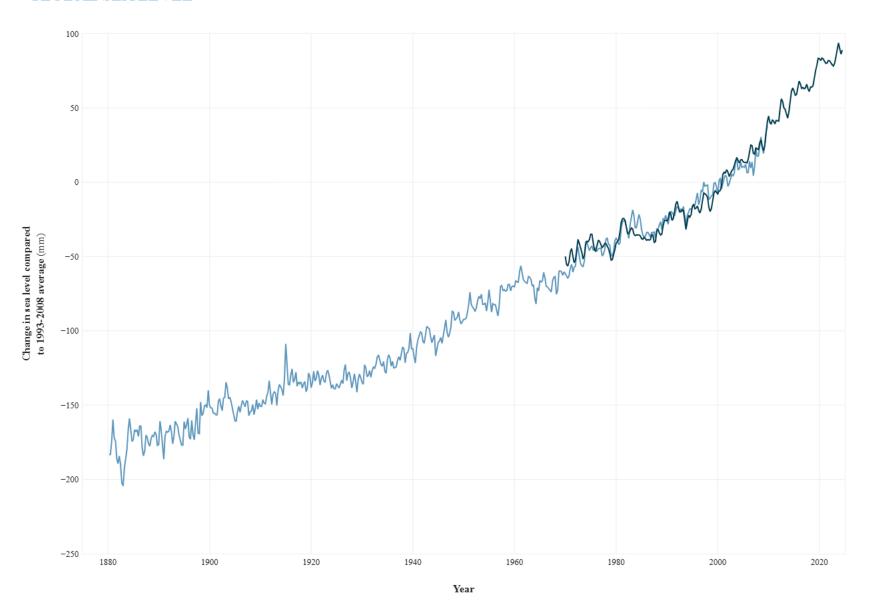
GLACIER MASS BALANCE (YEARLY)





Sea Level Rise

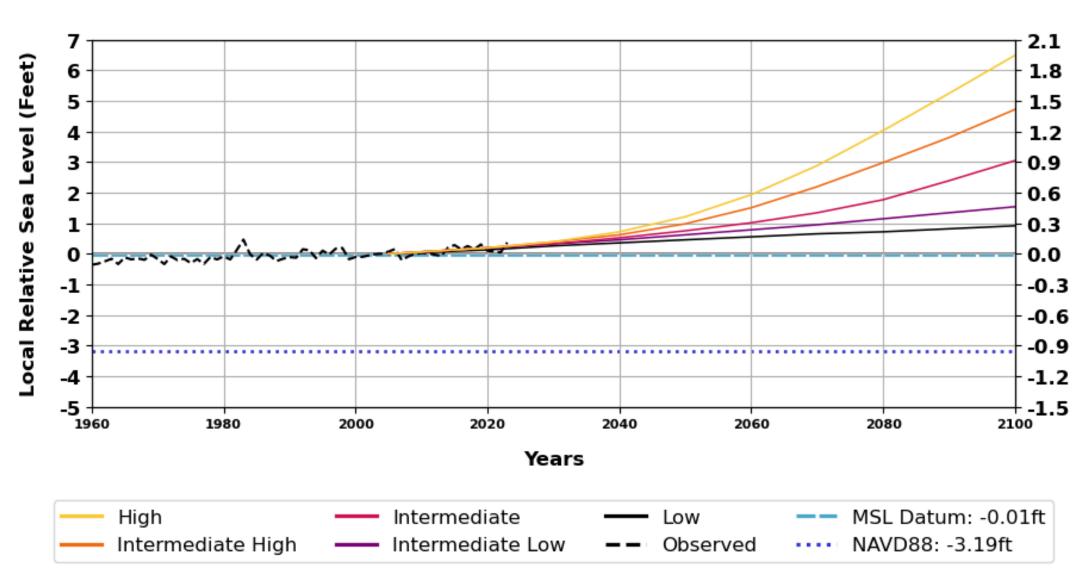
GLOBAL SEA LEVEL





Sea Level Rise

Annual Relative Sea Level Since 1960 and Projections 9414290 San Francisco



Local Relative

Level (Meters)

NORR DE STATE DE STAT

AI in NOAA



Harvesting the Power of AI for NOAA's Mission

Applying Artificial Intelligence to NOAA's Mission



Providing more accurate weather forecasts by improving models



Operating uncrewed systems for bathymetric mapping and

geographic surveys

Studying protected species with images and acoustic recordings



Predicting space weather by identifying solar events in real time

Reviewing aerial and underwater surveys to assess fish populations



Democratizing

Access to NOAA

Environmental

Intelligence

Exchanging ideas during NOAA's 2021 Al Workshop



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIO



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