

Nov. 25, 2019

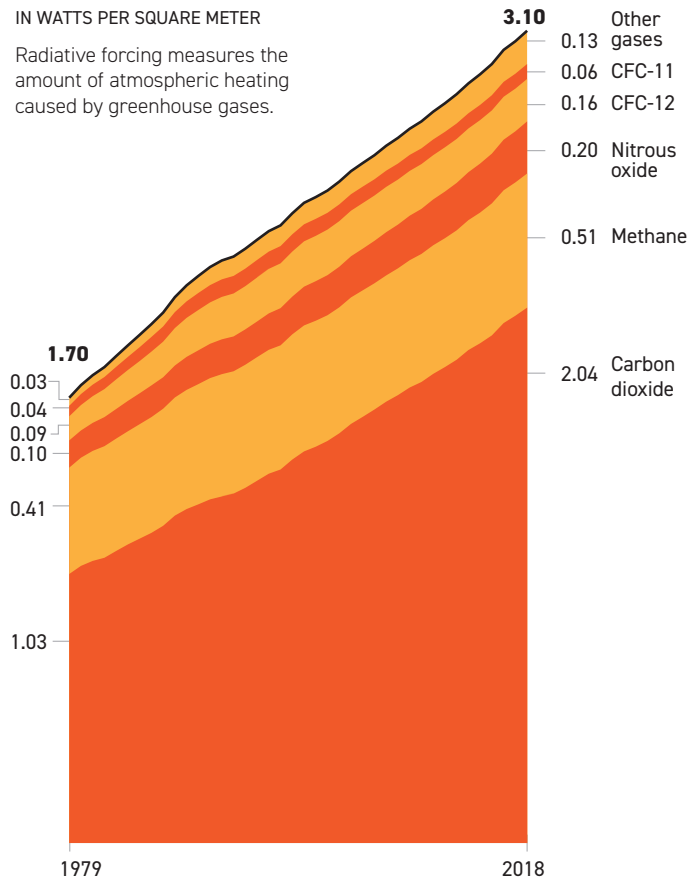
The current state of global warming

Greenhouse gas emissions continued to rise in 2018, with carbon dioxide concentrations reaching their highest, 407.4 ppm, in 800,000 years. Global surface temperatures were the fourth highest on record. According to the American Meteorological Society, June's 2018 Arctic snow cover was half that of 1983, with permafrost temperatures rising rapidly at most observation stations. Arctic sea ice reached its second smallest extent on record. Sea levels rose to a record 3.19 inches above 1993 averages as ocean surface temperatures continued warming at a rate of 0.1°C per decade. Dry regions are getting drier; wet regions are becoming wetter.

Radiative forcing from greenhouse gases

IN WATTS PER SQUARE METER

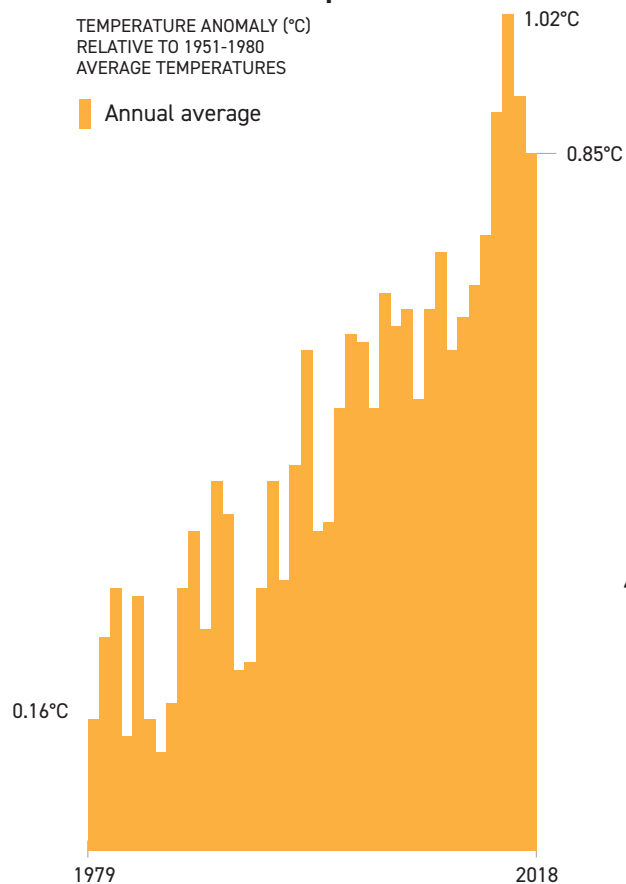
Radiative forcing measures the amount of atmospheric heating caused by greenhouse gases.



Global land-ocean temperature index

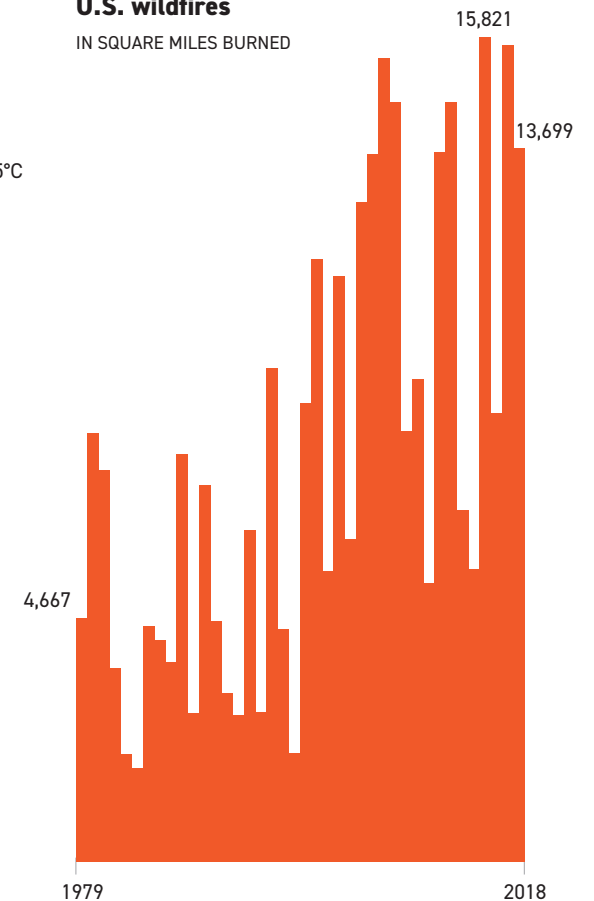
TEMPERATURE ANOMALY (°C)
RELATIVE TO 1951-1980
AVERAGE TEMPERATURES

Annual average



U.S. wildfires

IN SQUARE MILES BURNED



Sources: AMS, NOAA, NASA/GISS, National Interagency Fire Center

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