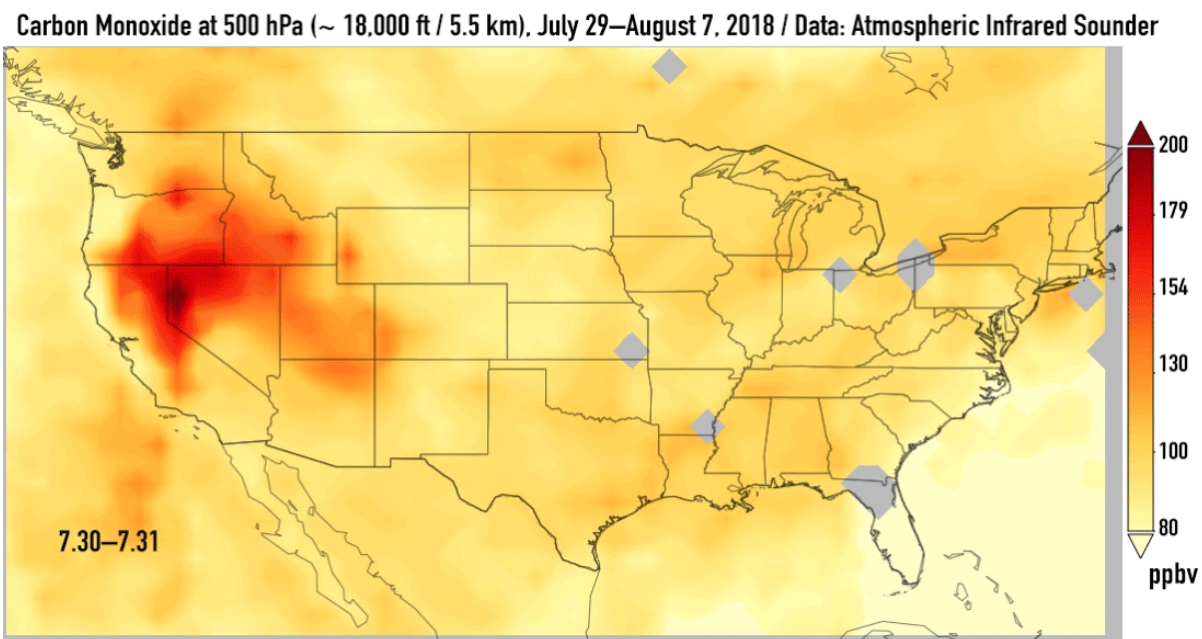


# Carbon monoxide from California wildfires drifts east

August 15 2018

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This animation shows concentrations of carbon monoxide (in orange/red) from California's massive wildfires drifting east across the U.S. between July 30 and August 7. It was produced using data from the Atmospheric Infrared Sounder (AIRS) on NASA's Aqua satellite. Credit: NASA / JPL-Caltech

California is being plagued by massive wildfires, and the effects on air quality from those fires can extend far beyond the state's borders. In addition to ash and smoke, fires release carbon monoxide into the

atmosphere. Carbon monoxide is a pollutant that can persist in the atmosphere for about a month and can be transported great distances.

New images made with data acquired by the Atmospheric Infrared Sounder (AIRS) on NASA's Aqua satellite show the high concentrations of [carbon monoxide](#) emitted from the fires (in orange/red) between July 29 and August 8. As the time series progresses, carbon monoxide high in the atmosphere is shown drifting east—with one branch moving southward toward Texas and the other forking to the northeast.

From space, AIRS measures carbon monoxide high up in the atmosphere—where it has little effect on the air we breathe. However, [strong winds](#) can carry this pollutant downward to where it can have significant effects on [air quality](#). The time series of images shows just how far the carbon monoxide from California's wildfires has travelled eastward and what areas may be at greater risk of experiencing its effects.

Other NASA instruments contribute to the study of carbon monoxide as well, including the Measurement of Pollution In The Troposphere (MOPITT), which looks at carbon monoxide in the lower atmosphere, and the Moderate Resolution Imaging Spectrometer (MODIS) which can detect carbon monoxide (and provide other useful surface data) over large areas of land.

Provided by NASA

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