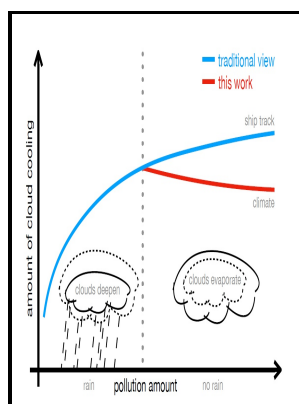


# Aerosol effects on climate

University of Arizona Press - Aerosol particles cool the climate less than we thought



Description: -

- Nature -- Effect of human beings on. Climatic changes.

Aerosols. Aerosol effects on climate

- Aerosol effects on climate

Notes: Includes bibliographical references and index.

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## How Aerosol is Impacting Our Climate

Climatologists consider the role of clouds to be the largest single uncertainty in climate prediction. Figure 3 also shows that NPF near and above the MBL top makes a significant contribution to simulated particle number concentrations for aerosol diameters of 10 to 282 nm in the lower troposphere, most strongly in the summertime BASE relative to noABLNUC.

## ACP

Likewise in the ocean, some types of microalgae produce a sulfurous gas called dimethylsulfide that can be converted into sulfates in the atmosphere. During NAAMES, the lowest aircraft-flight-level altitude was around 150—200 m GPS altitude.

## Climate effects of aerosols reduce economic inequality

Among the most important of these are sulfate aerosols, microscopic particles smaller than a millionth of a meter suspended in the air.

## Does air pollution affect global warming?

In contrast, high amounts of dark carbon lead to much darker colored aerosols.

## Distinguishing Aerosol Impacts on Climate over the Past Century in: Journal of Climate Volume 22 Issue 10 (2009)

Temperature anomalies are calculated relative to the simulated preindustrial climatology see.

## Why Reducing Sulfate Aerosol Emissions Complicates Efforts to Moderate Climate Change » Yale Climate Connections

With lower aerosol surface area and lower condensation sink noMSOA, the N3 and N3—N10 sizes below 2 km altitude are strongly overpredicted, because NPF increases and a lack of growth to larger sizes impacts N3—N10.

## Climate effects of aerosols reduce economic inequality

They can be human-made, like from car exhaust or biomass burning, or naturally occurring, from sources such as volcanic eruptions or sea spray.

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