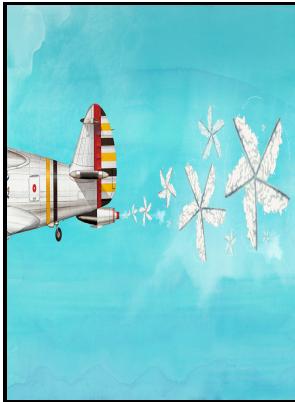


Atmospheric effects of stratospheric aircraft: a current consensus

NASA, Office of Space Science and Applications - Arctic Changes and their Effects on Alaska and the Rest of the United States



Description: -

- Nervous system -- Diseases

Antiques -- Australia.

Antiques.

Bible. -- N.T. -- Luke.

Upper atmosphere

Supersonic aircraft

Stratosphere

Atmospheric effectsatmospheric effects of stratospheric aircraft: a current consensus

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Is Earth's ozone layer still at risk? 5 questions answered

We also know that the future of the ozone layer is intricately intertwined with climate change.

Stratospheric Chemistry

Figure 10-15 Vertical distribution of the O₃ trend at northern midlatitudes for the period 1980-1996: best estimate solid line and uncertainties dashed lines. The large stationary zonal harmonic one planetary wave seen in Figure 3 displaces the polar vortex away from the North Pole. Caballero, 2016: The role of moist intrusions in winter Arctic warming and sea ice decline.

CHAPTER 10. STRATOSPHERIC OZONE

The onset of the rapid loss of ozone over Antarctica is related to the increasing levels of stratospheric chlorine and bromine driven by the increase of CFCs and anthropogenic bromine compounds. Wuebbles, 1986: On the depletion of Antarctic ozone, Nature, 321, 755-758. Reactive hydrogen, like reactive halogens, tend to be suppressed when NO x is greater.

Is Earth's ozone layer still at risk? 5 questions answered

Likelihood Virtually Certain Extremely Likely Very Likely Likely About as Likely as Not Unlikely Very Unlikely Extremely Unlikely Exceptionally Unlikely 99%—100% 95%—100% 90%—100% 66%—100% 33%—66% 0%—33% 0%—10% 0%—5% 0%—1% Confidence Level Very High High Medium Low Strong evidence established theory, multiple sources, consistent results, well documented and accepted methods, etc. Smaller aircraft, some of which can reach altitudes of 20 km, would be deployed above the tropics, while larger aircraft, which can't fly as high, would be sent to the Arctic. Crutzen and Ehhalt 1977 described how the nitrous oxide produced from fertilizers could pose another threat to the stability of the stratospheric ozone layer.

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In an SSW, the existing vortex may be pushed off the pole to lower latitudes and destroyed by mixing in the surf zone. Goldstein, Observations of HFC-134a in the remote troposphere, Geophysical Research Letters, 23, 169-172, 1996.

Review of NASA's 'Atmospheric Effects of Stratospheric Aircraft' Project: Panel on Atmospheric Effects of Aviation > Könyv

A loss of stratospheric ozone results in more harmful UV-B radiation reaching the Earth's surface.

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