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Stratospheric Chemistry of Aluminum Oxide Particles

Authors: Roger Meads; Darryl Spencer; Mario J. Molina; MASSACHUSETTS INST OF TECH CAMBRIDGE DEPT OF EARTH ATMOSPHERIC AND PLANETARYSCIENCES

Abstract: The emissions from solid rocket motors (SRMs) include hydrogen chloride vapor (MCi) and other inorganic chlorine compounds, as well as **aluminum oxide** particles. The effects of these emissions on stratospheric ozone have been investigated by Prather et al. Pyle and others. Recent satellite observations show no measurable localized depletion of ozone following a Space Shuttle launch; nevertheless, it is possible for the effects to be quite pronounced in the immediate neighborhood of the rocket plume.

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