

It is now a quarter of a century since Junge and his coworkers recovered the first sample from the sulfate aerosol layer in the stratosphere. Since that time vast strides have been made in determining its physical properties and morphology. These investigations have been performed with instruments on board aircraft and balloon platforms as in the early days, with ground-based lidar (optical radar), and most recently with satellite-borne optical instruments. It will become evident in Chapter 2 that in situ measurements by aircraft and balloon sensors complement rather than duplicate the remote techniques (lidar and satellite). Hence future programs will probably continue to utilize direct as well as indirect experimental techniques. Concurrently, with the observations of the gross properties of the aerosol layer, laboratory and theoretical studies have sought to elucidate the chemical and microphysical processes which influence the formation and growth of the aerosol particles. The laboratory investigations have included studies of gas phase chemistry, and particle nucleation and growth mechanisms. Theoretical studies have revolved mainly around a series of models developed by atmospheric scientists. The earliest of these models was constructed by Junge and his colleagues. With the advent of third- and fourth-generation computers, the capacity to solve the quite complex continuity equations which govern particle formation, growth, and removal has advanced to the point where most of the particle properties can be simulated with reasonable confidence.

A Home for All Jews: Citizenship, Rights, and National Identity in the New Israeli State (The Schusterman Series in Israel Studies & Brandeis Series on Gender, Culture, Religion, and Law), The Best Friend, The Last Forest: Tales of the Allegheny Woods, Semiconductors Vol III[3] Non Linear Circuits, Wake Up and Live!, Research-Inspired Design: A Step-by-Step Guide for Interior Designers, Analytical Calorimetry: Volume 5,

Title: Stratospheric Aerosols and Climate. Authors: Toon, O. B.; Pollack, J. B.. Publication: The Stratospheric Aerosol Layer. Series: Topics in Current Physics.

Publication: The Stratospheric Aerosol Layer: Topics in Current Physics Edited by R. C. Whitten. Published by Springer-Verlag, Berlin, Germany, , p. Interplanetary Physics · Astrobiology · Comets and Small Bodies · Fluid Planets · Solar .. The top of the stratospheric aerosol layer is mainly determined by . This topic is not covered in this review as there are a significant number of A short summary and the latest advancements in atmospheric in situ. The stratospheric aerosol layer previously identified by balloon measurements has been studied extensively by means of recovered rod impactor samples. The Stratospheric Aerosol Layer: Topics in Current Physics. No. R.C. Whitten (Editor), Springer-Verlag, Berlin, , XI + pp. 62 figs., DM. 54, approx.

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