



# Remote sensing of the troposphere

*V. E Derr*

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## **Remote sensing of the troposphere** V. E Derr

Remote measurement is a significant new tool in the study of structures and dynamics of the atmosphere and in applications to weather forecasting, weather modification, pollution studies, severe storm warning, and transportation safety because it combines accurate data with excellent spatial and temporal resolution, in essentially real time, over much larger volumes of the atmosphere than possible by other means. Remote sensing methods have been in use for many years in the form of weather radar and other techniques. However, the concerted effort to make full use of the electromagnetic spectrum and, in addition, acoustic probing of the atmosphere, have recently led to many developments in Doppler radar, FM/CW radar, laser systems, and acoustic echo-sounders. These, combined with new uses of radiometers, supplemented by improved in-situ instruments, and provided with airborne vehicles as well as based on the earth's surface, have brought us very close to a measurement capability by whose means we may obtain data on all important parameters of the lower atmosphere. This volume arose from the lectures given at the University of Colorado, Boulder, during June 1972. Jointly sponsored by the University of Colorado and National Oceanic and Atmospheric Administration, presented the basic scientific background necessary for studying the environment - primarily the lower atmosphere - by remote probing methods. Specific systems for remote measurement were discussed, and problems of atmospheric physics, for which these systems yield significant new data, were studied. These lectures were designed for scientists interested in applying new remote measurement methods to the study of the environment; furthermore they may also benefit those expanding their interests into atmospheric science.

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