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STUDY AND MODIFICATION OF CONVECTION STORMS

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Abstract: The development of field research and analysis techniques and a basic research investigation of cloud physics, cloud dynamics, and related cloud modification are reported. The over-all field research system, the instrumentation details, data handling and analysis methods, and the research results of the various studies which go to make up the whole program are described. The sub-cloud layer and representative cumulus clouds of all sizes were investigated using a coordinated system of two instrumented aircraft, two ground radars, and a ground network. There were cases of small and large cloud seeding by dry ice drops and by silver iodide from ground and from an additional aircraft. The investigations were coordinated with the studies of USAERDL, which used three aircraft, a limited ground network, and several lightning study stations, for probing lightning development and characteristics, IR measured ground temperatures, condensation nuclei and seeding with condensation nuclie apparatus and **chaff**.

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