

Project Shower,

An Investigation on Warm Rainfall in Hawaii¹

The following papers in this issue of *Tellus* are a collection of observational data gathered during "Project Shower". In the autumn of 1954 the United States Office of Naval Research, at the suggestion of Mr. A. H. Woodcock in collaboration with Dr. E. G. Bowen and Mr. W. A. Mordy, made funds available to bring together a group of scientists interested in different aspects of rainfall formation. Those who participated and the organizations supporting their work were

A. H. Woodcock	} Woods Hole Oceanographic Institute, U. S. A.
D. C. Blanchard	
A. T. Spencer	
P. Squires	} Commonwealth Scientific and Industrial Research Organization, Australia.
J. Warner	
S. Twomey	
E. J. Workman	} New Mexico Institute of Mining and Technology, U. S. A.
B. K. Seely	
E. A. Amman: U. S. Weather Bureau.	
E. Eriksson: Institute of Meteorology, University of Stockholm, Sweden.	
C. E. Junge: U. S. Cambridge Air Force Research Center.	
V. J. Schaefer: Muntalp Foundation, U. S. A.	
W. A. Mordy	} Pineapple Research Institute of Hawaii, Hawaiian Sugar Planters' Association, and Ter- ritorial Cattlemen's Council
L. E. Eber	
D. S. Johnson	

A rather detailed narrative account of "Project Shower" has appeared earlier in *NATURE*, (Vol. 175, p. 748, April 30, 1955.) and the reader is referred to this for a general statement on the background of the project. It will suffice here to say that it was the purpose of this group to gather a body of time and place related information consisting of such cloud, rainfall, and atmospheric measurements as are indicated by the titles of the articles included here. Measurements such as these were for the most part already available for separate conditions, but no single working group in cloud physics had been formed and equipped to gather such information at one place and time. "Project Shower" was conceived as a means for obtaining measurements which could acquire extended meaning as they were studied in relationship to each other.

The following papers are presented in order to provide those interested in cloud physics research with the basic data collected during the interval of study. There has been little attempt here to draw conclusions from these data, but rather, they have only been put together in usable form. Several analytical studies based on these data have been published in *Tellus* and elsewhere, and others are awaiting publication in subsequent issues of *Tellus*.

The Editor.

¹ Booklets containing reprints of all papers belonging to Project Shower can be ordered from the price of US \$ 1.75.