

PREFACE

The warm rain project in Hawaii

The papers following in this issue of *Tellus* form a collective presentation of the results of an intensive field measurement program undertaken near Hilo on the Island of Hawaii during the summer of 1965. The project was predicated on the belief that our understanding of the physics and the chemistry of the rain generation process in liquid water clouds is still severely handicapped by inadequate description. Accordingly, several groups of cloud physicists decided to bring to bear jointly, at one time and place, some of the instrumentation and measurement techniques which had recently proven of value in the study of clouds and rain.

The project evolved under the aegis of the U.S.-Japan Cooperative Science Program, but other groups accepted invitations to participate. The participants and their affiliations were:

Nagoya University, Nagoya, Japan: K. Isono, M. Komabayasi, T. Takahashi, and T. Takeda
Meteorological Research Institute, Tokyo, Japan: M. Fujiwara.

Illinois State Water Survey, University of Illinois, U.S.A.: E. Mueller, R. Semonin, D. Staggs, and G. Stout.

Cornell Aeronautical Laboratory, Buffalo, New York, U.S.A.: C. Easterbrook, J. Jiusto, R. Rogers, and G. Zigrossi.

University of Hawaii, Honolulu, U.S.A.: R. Duce, R. Lavoie, A. H. Woodcock, E. J. Workman and W. Zoller.

Stanford University, Stanford, California, U.S.A. D. Huff and P. Kruger.

Commonwealth Scientific and Industrial Research Organization, Australia: J. Warner.

Not the least of the reasons for the selection of Hilo as a site of the field program is that a significant body of knowledge concerning cloud and precipitation characteristics in the area already exists. The bulk of this information was gathered during "Project Shower", a similar, cooperative measurement program conducted during the fall of 1954. Most of the data collected during Project Shower appeared in a collective set of 15 papers published in *Tellus* in 1957 (Vol. 9, No. 4, pp. 471-590).

R. L. Lavoie, Project Coordinator