

NOTE

During the week of October 13—18, 1952, a meteorological conference was held at the Institute of Meteorology, University of Stockholm under the leadership of professor C.-G. Rossby. The purpose of this conference was twofold. First it was felt important to retain close contacts with other groups in Europe and the USA in the field of numerical forecasting, which has been the main research subject of the institute during the last year. Secondly, the conference represented an attempt to make a survey of the present stage of our knowledge in the

fields of cloud physics and the cycle of fixed nitrogen in the atmosphere, in order to formulate preliminary research programs in these two fields. It is hoped that those two subjects will be taken up for detailed study in a near future at the institute and in close collaboration with other institutions.

The titles of the lectures are listed below. Some of them are published in this issue, others will appear in later issues of *Tellus*.

LECTURES

Section I. Synoptic-aerological problems.

- Prof. E. PALMÉN, University of Helsinki: Comments on the cyclone problem.
Dr C. W. NEWTON, University of Chicago: Structure of the wind field over the United States in a summer situation.

Section II. Numerical Forecasting.

- Dr J. CHARNEY, Institute for Advanced Study, Princeton: The numerical forecasting program in Princeton.
Dr R. C. SUTCLIFFE, Meteorological Office, Dunstable: Some preliminary experiments in numerical computations at the meteorological office, Dunstable.
Dr E. EADY, Imperial College of Science, London: Some problems of numerical forecasting.
Dr A. ELIASSEN, Institutt for vaer- og klimaforskning, Blindern, Oslo: Tendency computations by means of a $2\frac{1}{2}$ -dimensional model.
Dr E. LINGELBACH, German Weather Service, Bad Kissingen: A report on some 3-dimensional computations performed at Bad Kissingen.
Fil. lic. B. BOLIN, University of Stockholm: Comments on the testing of atmospheric models.
Dr J. CHARNEY, Institute for Advanced Study, Princeton: Remarks on three and four parameter models.
Prof. J. VAN MIEGHEM, University of Brussels: Energy conversions in the atmosphere on the scale of the general circulation. Problems of the International Year 1957—58 and the spacing of aerological stations.
Civilingenjör O. KARLQVIST, Computer Project, Stockholm: A noniterative method for solving elliptic boundary value problems.
Fil. lic. G. ARNASON, University of Stockholm: Example of temperature and pressure tendency computations for the troposphere with a simplified baroclinic model.

Section III. Cloud Physics.

- Dr V. SCHAEFER, General Electric Company, Schenectady: I. Clouds in the laboratory and in the sky.

- Dr N. HERLOFSON, Royal Institute of Technology, Stockholm: Report on Australian researches in cloud physics and cloud modification.
Dr WHITTLE, University of Uppsala: Statistical methods for evaluation of cloud seeding operations.
Mr F. H. LUDLAM, Imperial College of Science, London: Natural and artificial showers.
Dr C. JUNGE, Universitätsinstitut für Meteorologie und Geophysik, Frankfurt am Main: Particle-size distribution of condensation and sublimation nuclei.
Prof. T. BERGERON, University of Uppsala: Rain mechanisms in the temperate zone and the possibility of influencing them.
Dr C. W. NEWTON, University of Chicago: Effect of vertical wind shear on thunderstorm and tornado formation.
Dr V. SCHAEFER, General Electric Company, Schenectady: II. The modification of clouds in the free atmosphere.
Dr V. SCHAEFER, General Electric Company, Schenectady: III. An experimental approach to the study of the lower atmosphere.

Section IV. The Nitrogen Cycle in the Atmosphere.

- Laborator H. EGNER, Royal Institute of Agriculture, Ultuna: On the role of the atmosphere in the circulation of nutrient elements.
Agr. lic. E. ERIKSON, Royal Institute of Agriculture, Ultuna: On the origin of atmospheric salts.
Dr C. JUNGE, Universitätsinstitut für Meteorologie und Geophysik, Frankfurt am Main: Concentration of various aerosols in the atmosphere.
Dr A. ÅNGSTRÖM, Swedish Meteorological and Hydrological Institute, Stockholm: On the fixed nitrogen content in precipitation, its geographical distribution and seasonal variation in Sweden.
Fil. lic. W. SCHYTT, University of Stockholm: On the fixed nitrogen content of ice samples from Antarctica and from a Norwegian glacier.
Dr O. ARRHENIUS, Grödinge: Chemical denudation and soil destruction in Sweden.