

*Scientific contributions from
the Institute of Meteorology, University of Stockholm
during the academic years 1951—1953*

1. Numerical Forecasting.

ARNASON, G.: A baroclinic model of the atmosphere applicable to the problem of numerical forecasting in three dimensions. I *Tellus*, Vol. 4, No. 4.

ARNASON, G.: A baroclinic model of the atmosphere applicable to the problem of numerical forecasting in three dimensions. II *Tellus*, Vol. 5, No. 3.

BOLIN, B.: Multiple parameter models of the atmosphere for numerical forecasting purposes. *Tellus*, Vol. 5, No. 2.

CLAPP, PH.: Application of barotropic tendency equation to medium range forecasting. *Tellus*, Vol. 5, No. 1.

EADY, E.: Note on Weather Computing and the so-called $2\frac{1}{2}$ -dimensional Model. *Tellus*, Vol. 4, No. 3.

ELIASSEN, A.: Simplified models of the atmosphere, designed for the purpose of numerical weather prediction. *Tellus*, Vol. 4, No. 3.

ELIASSEN, A. and HUBERT, W. E.: Computation of vertical motion and vorticity budget in a blocking situation. *Tellus*, Vol. 5, No. 2.

HOVMÖLLER, E.: A comparison between observed and computed winds with respect to their applicability for vorticity computations. *Tellus*, Vol. 4, No. 2.

REUTER, H. and HOLLMANN, G.: Ueber die Genauigkeit verschiedener Approximation der horizontalen Windkomponenten. *Tellus*, Vol. 5, No. 3.

SMEBYE, S.: Tendency computations with a continuous two parameter atmospheric model. *Tellus*, Vol. 5, No. 2.

STAFF MEMBERS OF THE UNIVERSITY OF STOCKHOLM: Preliminary report of the prognostic value of barotropic models in the forecasting of 500 mb height changes. *Tellus*, Vol. 4, No. 1.

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VUORELA, L.: A synoptic study of deformation fields. *Tellus*, Vol. 5, No. 3.

2. General theory.

BOLIN, B.: The adjustment of a nonbalanced velocity field towards geostrophic equilibrium in a stratified fluid. *Tellus*, Vol. 5, No. 3.

VAN MIEGHEM, J.: Energy conversions in the atmosphere on the scale of the general circulation. *Tellus*, Vol. 4, No. 4.

3. Synoptic Meteorology.

HUBERT, W.: A case study of variations in structure and circulation about westerly jet streams over Europe. *Tellus*, Vol. 5, No. 3.

MOHRI, K.: Distribution of wind and temperature over Japan and adjacent ocean areas during the winter 1950—51. *Tellus*, Vol. 5, No. 3.

NEWTON, C. W. (and CARSON, J.): Structure of wind field and variations of vorticity in a summer situation. *Tellus*, Vol. 5, No. 3.

ROSSBY, C.-G.: A comparison of current patterns in the atmosphere and in the ocean basins. *Memoirs UGGI*, Aug. 1951.