

**Dansk Geofysisk Forenings Møder**

i Aaret 1948.

## 5. Februar:

Videnskabelig assistent cand. mag. E. CARLSEN: Om nedbør.

## 11. Marts:

Dr. phil. NIELS ARLEY: Om teorier for jordens permanente magnetisme.

## 30. April:

Afdelingsmeteorolog cand. mag. HELGE THOMSEN: Om dybvandscirkulationen i oceanerne.

(Professor dr. phil. ARNE NØE-NYGAARD: Et påstået meteorit fra Drejø.)

## 7. Oktober:

Professor dr. phil. BENGT STRØMGREN: Nyere undersøgelser over stjernernes dannelse og udviklingshistorie.

## 4. November:

Statsgeodæt cand. mag. et mag. scient. INGE LEHMANN: Mikroseismisk uro og vejret.

## 2. December:

Geotekniker fru E. L. MERTZ: Vekselvirkning mellem geoteknik og geologi.

**Oversigt over danske geofysiske Publikationer 1948.**

Hvor intet Trykkested er anført er det København. No place of publication if published in Copenhagen.

EINAR ANDERSEN: Nogle Bemærkninger vedrørende Løsning af Normal-ligninger samt vedrørende Anvendelse af Prikciffrer i Sideligningers Konstantled. Tidsskrift for Opmaalings og Matrikulsvæsen, 18. Bind, 8. Hæfte. — 1948.

A survey of a greater work of the author: Solution of Great Systems of Normal Equations. Geodætisk Instituts Skrifter, 3. Række, Bind XI. København 1947. A rapid method for the solution is given. The method may be used on very great systems. The author thinks it superfluous to use dot-figure by computation of side-equations.

EINAR ANDERSEN: Determination of Latitude at Buddinge by the Horrebow-Talcott Method. Geodætisk Instituts Skrifter, 3. Række, Bind XII. — 1948.

In three periods in 1938—39 244 observations of 82 pairs of stars were made. The observations are reduced to the mean pole. Reductions for stellar parallaxes are given. Special investigations are made about the Horrebow-levels and about the double stars employed.

Annuaire Magnétique 1<sup>ère</sup> partie: Le Danémark (excepté le Groenland) 1947. — 1948.

Annuaire Magnétique 2<sup>ème</sup> partie: Le Groenland, 1931 et 1939. — 1948.

THORD BRENNER, S. SKAVEN HAUG, ELLEN LOUISE MERTZ og A. F. MOGENSEN: Geoteknik. Foredrag fra Kursus i Dansk Ingeniørforening. 2.—6. April 1946. — 1948.

Foredragsserien dækker alle Afskygninger af Geoteknik fra dens geologiske Side

(Ingeniørgeologi, Jordarternes fysiske og geotekniske Egenskaber) over Jordarternes tekniske Konstanter (der tillige har stor geologisk Interesse) til rent teknisk prægede Undersøgelser af Nedsynkning af Bygværker, svævende Pæles Bæreevne osv. Publikationen er tænkt som en Lærebog for dette Fags Dyrkere.

RICHARD BØGVAD: Magnetitforekomsten i Grønnedal ved Ivigtut. Medd. fra Dansk Geol. Foren. Bd. 11, Side 241. — 1941.

J. EGEDAL: The lunar-diurnal variation in the earth-currents on the Italian Polar Year station at Mogadiscio, Somaliland. Estratto dalla Rivista Geofisica Pura e Applicata, Vol. XI, fasc 1/2. — Milano 1948.

From earth-current observations made at Mogadiscio the lunar-diurnal variation has been derived for the northward component, and by means of a special method lunar variations during daylight hours and night hours have been determined separately. The results have been compared with corresponding results from other observatories.

J. EGEDAL: Daily variation of the horizontal magnetic force at the magnetic equator. »Nature«, vol. 161, no. 4090. — London 1948.

S. SKAVEN HAUG, se THORD BRENNER.

HENRY JENSEN: Nivellementer over Store Bælt. Geografisk Tidsskrift. — 1948.

A survey of the different levellings across the Great Belt: Trigonometrical levelling, Quasi-levelling (LA COUR), Hydrostratic levelling (NØRLUND), and a modern Quasi-levelling. The last is used in a reciprocal manner to give the quotient between the current at a light-vessel in the Belt and the average current in the Belt as a whole.

HENRY JENSEN: On the Superposition of the Differential-Equations of the Geodetic Line. Geodætisk Instituts Skrifter, 3. Række, Bind XIII. — 1948.

The usual differential-formulas of a geodetic line are superposed by means of a matrix product. The formulas are used by closing a great pentagon in latitude, longitude, and azimuth. Some remarks upon the Laplace-equation and the Boltz method are given.

I. LEHMANN: On two Explosions in Danish Waters in the Autumn of 1946. Geofisica pura e applicata, Vol. XII Fasc. 3—4. — Milano 1948.

Records of the shocks from two large ammunition-explosions obtained at København, Lund, and Göttingen are discussed and compared with those of some mine-explosions and the earthquake of Oct. 31. 1930, 23 h. Some macroseismic evidence is given and the methods available for the evaluation of the energy of the shocks are discussed.

LEO LYSGAARD: The recent climatic fluctuations. »Nature«, vol. 161, no. 4090. Program for the Oslo assembly of UGGI. — London 1948.

This paper gives a concise account of the variations of temperature, precipitation, pressure, gradient and circulation for the whole earth (maps and curves).

ELLEN LOUISE MERTZ: Vekselvirkningen mellem Geologi og Geoteknik. (Engl. summary). D. G. U. III. R. Nr. 29. — 1948.

Der tilstræbes i denne lille Afhandling at faa klarlagt den Hjælp, som den geologiske Videnskab kan yde Teknikerne, og den Nytte, Geologerne til Gengæld kan have af Samarbejdet.

ELLEN LOUISE MERTZ, se THORD BRENNER.

Meteorologisk Årbog. 1. del: Danmark. — 1947.

Comprend les observations triquotidiennes de 12 stations et les résumés mensuels et annuels pour tous les éléments météorologiques de 41 stations.

Meteorologisk Årbog. 2. del: Grønland. — 1941.

Comprend les observations triquotidiennes de 9 stations et les résumés mensuels et annuels pour tous les éléments météorologiques de 17 stations.

A. F. MOGENSEN, se THORD BRENNER.

ARNE NOE-NYGAARD: Et Støvfald over Danmark i Slutningen af Marts 1947. Medd. fra Dansk Geol. Foren. Bd. 11, Side 222. — 1947.

Dust coming from North-Africa a few days before the volcanic eruption of Hekla.

GUNNAR NØRGAARD: Gravity Values on the Western Coast of Greenland. With the Gravity Differences Copenhagen-Stockholm, Copenhagen-Oslo. Geodætisk Instituts Skrifter, 3. Række, Bind XIV. — 1948.

In 1946 gravity measurements were made on 41 stations between the latitudes 60° and 76°.5. The result is that the Western Greenland geoid corresponds in direction parallel to the coast very closely to the international ellipsoid. At several places, however, the gravity anomaly decreases about 1 milligal per kilometer in the direction towards the inland ice. This is in relation to the isostatic depression which the inland ice has caused and still causes.

The measured differences Copenhagen-Stockholm and Copenhagen-Oslo are compared with a Norwegian measurement Oslo-Stockholm.

J. OLSEN: Persistent solar rotation-period of 26 7/8 days and solar-diurnal variation in terrestrial magnetism. Terr. Magn. p. 123, 48. 12 p. — Washington 1948.

The magnetic disturbance at Godhavn, Greenland shows during 15 years a recurrence-tendency with a period of 26 7/8 days (200 sequences), the eleventh day in the period being very disturbed, whereas the twentieth day in the period is rather quiet. This seems to show that some layer of the sun has a fix rotation-period of 26 7/8 days and that the two sides of the sun produce different magnetic effects in the Arctic regions of the Earth.

HELGE PETERSEN: The Danish meteorological service in Greenland. »Arctic«. Journal of the Arctic Institute of North America, vol. 1, nr 1. 7 p. — Montreal 1948.

HELGE PETERSEN: Om kunstig fremkaldelse af nedbør. Fysisk Tidsskrift nr 3/6, 7 p. — 1947.

HELGE PETERSEN: Om regn og moderne regnmageri. »Naturens Verden«. 17 p. — 1948.

ERIK SINDING: On the Systematic Changes of the Eccentricities of nearly Parabolic Orbits. Det Kgl. Danske Videnskabernes Selskab. Matematisk-fysiske Meddelelser XXIV, 16. — 1948.

It is shown that  $\Delta\left(\frac{1}{a}\right)$  for 21 rigorously calculated comets has the order of magnitude 0.0005. An exception is shown to be caused by a calculation error. The phenomenon that nearly parabolic orbits change systematically in the elliptical direction when epochs further and further back in time are considered, is explained.

HELGE THOMSEN: Instructions pratiques sur la détermination de la salinité de l'eau de mer par la méthode de titrage Mohr-Knudsen. Bulletin de l'Institut Océanographique No 930. 16 p. — Monaco 1948.

A detailed description of the determination of the salinity of sea water by the Mohr-Knudsen titration method.

JENS SMED: Ekkolod og Asdic. «Naturens Verden», Vol. XXXII, pp. 177—183, — 1948.

On echo sounding and asdic.

JENS SMED: Hydrographic Conditions in the Faroe-Shetland Channel in August 1946. *Annales Biologiques*, Vol. III, pp. 10—12, — 1948.

Gives the distribution of temperature and salinity in a section from the Faroe Islands to Shetland, as well as computed values of current and intensity of flow through the various parts of the section.

JENS SMED: Hydrographic Conditions at the Northern Entrance to the North Sea in August 1946. *Annales Biologiques*, Vol. III, pp. 40—41, — 1948.

Gives the distribution of temperature and salinity in a section from Bergen (Norway) to Shetland, as well as computed values of current and intensity of flow through the various part of the section.

JENS SMED: Monthly Anomalies of the Surface Temperature in some Areas of the North-Western North Atlantic in 1876—1939 and 1945—1946. *Annales Biologiques*. Vol. III, pp. 12—24, — 1948.

A representation by graphs and tables of the anomalies from month to month.