

VIGÉSIMA TERCEIRA REUNIÃO DA AMERICAN GEOPHYSICAL UNION

A União Geofísica Americana realizou a sua 23.^a Reunião Anual, nos dias 3 e 4 de abril de 1942, em Washington; D C, nos salões do *Hal of Government* prosseguindo, desse modo, no meritório trabalho de investigar o aspecto e a física da terra, em fecunda cooperação nacional e internacional.

Depois da Assembléia Geral de caráter administrativo e da concessão da Medalha de William Bowil a L. O. COLBERT, o Presidente W. C. LOWDERMILK pronunciou o discurso de saudação, seguido de interessante conferência do Sr. BRADFORD WASHBURN, diretor do Museu de História Natural de Nova Inglaterra, Bóston, sobre as "Recentes explorações nas montanhas e geleiras do Alaska", ilustrada com valiosas películas em cór.

Os trabalhos científicos se desenvolveram de acórdio com o seguinte programa:

SECTION OF GEODESY

- H. S. RAPPEYE:**
Investigation of the effect of heavy construction on nearby benchmarks.
- F. L. CULLEY:**
Use of accounting machines for mass transformation from geographic to grid coordinates.
- L. G. SIMMONS:**
Method of computing geographic positions by natural functions and the calculating machine.
- R. M. FIELD:**
Map reading and defense training
- L. M. SAMUELS:**
Use of the prismatic astrolabe for astronomic positions by the Hydrographic Office.
- CARL I. ASLAKSON:**
Gravity observations in Peru and Colombia
- H. W. HEMPLE:**
Recent progress in geodetic surveys of the United States Coast and Geodetic Survey.
- NOEL OGILVIE:**
Precise triangulation on the north shore of the Gulf of St. Lawrence in 1941.

SECTION OF SEISMOLOGY

- D. LINEHAN:**
Seismic prospecting in New England.
- JAMES T. WILSON:**
A statistical study of the periods and amplitudes of microseisms.

FRANK NEUMANN:

Progress-report, United States Coast and Geodetic Survey — Discussion of recent developments in the study of destructive earthquake motions.

ARCHIE BLAKE:

On the determination of elastic constants within the Earth... from seismometric data.

SECTION OF METEOROLOGY

HELMUT LANSBERG:

The structure of the wind over a sand-dune.

R. A. KEPNER, L. M. K. BOELTER, and F. A. BROOKS:

Nocturnal wind-velocity, eddy-stability, and eddy-diffusivity above a citrus orchard.

F. A. BROOKS:

Determination of thermal characteristic of soil from observations of diurnal temperature-fluctuations.

C. W. THORNTHWAITE:

Note on the variation of wind with height in the layer near the ground.

J. C. OWEN and MAURICE HALSTEAD:

The measurement of wind and moisture-gradients over a reservoir.

R. H. WEIGHTMAN:

Meteorological organization in Latin America.

CHARLES F. SARLE:

Recent developments in climatology and extended weather forecasting.

S. B. SOLOT and A. K. SHOWALTER:

Computation of maximum possible precipitation.

H. T. STETSON and D. S. MACKIERNAN:

On the observation and measurement of the apparent shift in direction of the radio beam of an air beacon and certain relations to meteorological conditions

V. CONRAD:

Interdiurnal variability of temperature.

SECTION OF TERRESTRIAL MAGNETISM AND ELECTRICITY

H. W. WELLS:

Earth's magnetic field and actual heights in ionosphere.

H. C. SILSBEE and E. H. VESTINE:

Geomagnetic bays, their frequencies and current-systems.

- E. H. VESTINE:**
The world-wide distribution of the magnetic annual variation.
- H. H. HOWE:**
Recent alterations in geomagnetica secular variation in eastern North America.
- D. G. KNAPP:**
Methods used in the production of the 1940 isogonic chart for the United States.
- M. W. JONES and P. J. LEDIG:**
Abrupt daily change in condensation-nuclei at Huancayo, Peru.
- G. R. WAIT:**
Atmospheric-electric results from simultaneous observations over the ocean and at Watheroo, Western Australia.
- J. HERSHBERGER:**
Overcoming the humidity problem at a tropical magnetic observatory.
- O. W. SWAINSON:**
Magnetic work of the United States Coast and Geodetic Survey from April 1941 through March 1942.
- J. A. FLEMING:**
Researches in terrestrial magnetism and electricity at Department of Terrestrial Magnetism, Carnegie Institution of Washington, for year April 1941 to March 1942.

SECTION OF OCEANOGRAPHY

- G. S. BRYAN:**
The oceanographic work of the Hydrographic Office during the past year
- R. R. WAESCHE:**
Oceanographic observations by the United States Coast Guard.
- L. O. COBERT:**
Oceanographic activities of the United States Coast and Geodetic Survey.
- H. U. SVERDRUP:**
Scripps Institution of Oceanography during April 1940 to April 1941
- MARTIN A. MASON:**
Related problems in shore-processes and oceanography.
- T. H. WHITCROFT:**
United States Navy contributions to the oceanography of the Caribbean.
- MILTON J. LOBELL:**
Oceanography of the Peruvian Coastal Current
- ROBERT CUSHMAN MURPHY:**
Pacific campaign of the Schooner Askoy-Darien, Colombia, Ecuador.

SECTION OF VOLCANOLOGY

- H. R. GAULT:**
A syntectonic intrusion in eastern Alabama.
- R. H. JAHNS:**
Origin of the Ayer granodiorite in the Lowell Area, Massachusetts.
- L. W. CURRIER:**
Origin of the Chelmsford granite, Massachusetts.
- ANNA J. STOSE:**
Intrusive rocks of the Blue Ridge Plateau
- E. C. H. LAMMERS:**
Structural observations indicating an intrusive origin for the Beartooth batholith.
- ROBERT BALK:**
The Pelham gneiss-dome, Massachusetts
- AUGUSTUS LOCKE:**
Basement-structures under volcanoes
- W. H. PARSONS and M. H. STOW:**
Origin and structural relationships of the agglomerate member of the Livingston Formation, Montana
- R. C. STEPHENSON:**
The relations of the anorthosite and gabbro in the Lake Sanford Area, New York
- A. F. BUDDINGTON:**
The course of concentration of iron and titanium in magmatic differentiation
- RUSSELL G. WAYLAND:**
The Nabesna gold deposit, Alaska.
- EINAR JENSEN:**
The field of stability of pyrrhotite
- R. R. COATS:**
Formation of aegirine-aueite and arfvedsonite by reaction.

SECTION OF HYDROLOGY

- W. G. HOYT:**
Report of Research Committee on Runoff.
- R. E. HORTON:**
Remarks on hydrologic terminology.
- R. E. HORTON:**
Surface and subsurface detention in relation to surface-runoff.
- R. E. HORTON:**
Some of the problems of the channel phase of surface-runoff
- H. K. BARROWS:**
A study of valley-storage and its effect upon the flood-hydrographs.
- E. J. GUMBEL:**
Control-curves for flood-flows

- C. R. HRUSH:
Studies in the balanced water economy of experimental drainage areas
- N. E. EDLEFSEN:
Report of the Research Committee on Physics of Soil-Moisture.
- C. S. JARVIS:
Derivation of river-discharge from tributary records
- R. E. HORTON:
An experiment on capillary flow.
- R. E. HORTON:
Report of Special Advisory Committee on Soil-Conservation Research
- T. C. ADAMS:
Report of the Research Committee on Physical Limnology
- H. S. RIESBOL:
Report of Special Coordinating Committee on Hydrology-American Geophysical Union and American Society of Agricultural Engineers.
- F. E. MATHES:
Report of Research Committee on Snow
- W. T. WILSON:
Some observations of thermal quality of snow.
- C. H. NIEDERHOF and E. C. DUNFORD:
Some errors in snow-sampling.
- MERRILL BERNARD:
Report of the Research Committee on Rainfall
- KATHERINE CLARKE-HAFSTAD:
The spacing of raingages and the measurement of flood-producing rain.
- L. B. LEOPOLD:
Areal extent of intense rainfalls, New Mexico and Arizona.
- W. W. JOHNSON:
Interceptions of rain and snow by young ponderosa pine
- G. W. MUSCRAVE:
Report of the Research Committee, on Infiltration
- A. L. SHARP and H. N. HOLTAN:
Extension of graphic methods of analysis of sprinkled-plot hydrographs to the analysis of control-plots and small homogeneous watersheds
- C. S. HOWARD:
Report of the Research Committee on Chemistry of Natural Waters.
- C. S. HOWARD:
Quality of stored water available for use in the lower basin of the Pecos River, Texas.
- D. G. THOMPSON:
Report of the Research Committee on Underground Waters.
- C. F. MERRIAM:
Measurement of natural fluctuations in groundwater-elevations.
- J. KITTEDGE:
Report of the Research Committee on Evaporation and Transpiration
- W. B. LANGBEIN:
Monthly evaporation and transpiration-losses from natural drainagebasins.
- L. G. STRAUB:
Report of the Special Committee on Flood-Waves
- L. G. STRAUB:
Report of the Research Committee on Dynamics of Streams
- W. B. LANGBEIN:
Hydraulic criteria for sand-waves.
- DON KIRKHAM:
Modification of a theory on the relation of suspended to bed-material in rivers.
- W. C. KRUMBEIN:
Settling velocities and flume-behavior of non-spherical particles
- F. W. BLAISDELL:
The use of sand-beds for comparing relative stilling-basin performance
- A. A. KALINSKE:
Statistical analyses relating to initiation of sand-movement on streambeds.
- W. E. DARROW:
The hydrologic aspects of beach-material supply
- S. K. LOVE and P. C. BENEDICT:
Sediment-loads in the Moore Creek Drainage-Basin, Idaho, 1939-40.
- G. M. BRUNE:
Island-formation and channel-filling on the upper Wabash River.
- J. W. JOHNSON:
The use of mass-curves in evaluating suspended-load observations on small Piedmont streams.

SECTION OF TECTONOPHYSICS

Symposium and Conference on Mechanics of flow and crustal deformation.
President L. H. ADAMS in the Chair.

- W. H. BUCHER:
Significance of glaciers
- A. W. JOLLIFFE:
Structures in the Canadian Shield.
- ERNST CLOOS:
Fabric analysis of rock-flowage
- W. T. THOM:
Major control-patterns, and their dynamics-of-origin.