

Chapter 79.24 Germany

German National Report

Part D. Prof. Dr. Beno Gutenberg – The Bibliography

Compiled by Johannes Schweitzer
NORSAR, P.O. Box 53, N-2027 Kjeller, Norway
Formerly at: Institute of Meteorology and Geophysics
Feldbergstraße 47, D-60323 Frankfurt am Main, Germany

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1 Introduction

The following bibliography was mostly compiled during the preparation of the Beno-Gutenberg-Symposium in Stuttgart in 1989, undertaken by the Deutsche Geophysikalische Gesellschaft (DGG) on the occasion of the 100th birthday of Beno Gutenberg. At that time, I worked at the Institute of Meteorology and Geophysics in Frankfurt am Main, Germany and distributed preliminary preprints of this bibliography. During the next decade, several titles and some corrections were added. Because of the numerous, widely spread contributions of Beno Gutenberg, I am not certain that this is a complete list; in particular, the list of popular scientific contributions, abstracts, and reports to scientific agencies, which funded specific studies, may have some gaps. Most of the listed publications could be checked by looking in the originals, but some had to be added as they were cited or listed elsewhere. However, it would not have been possible to compile this bibliography without the help and support of the following people: Paula Agranat-Hurwitz, Hans Berckhemer, Ed Garnero, George Purcaru, Goetz Schneider, and Lew Vinnik. A crosscheck with the bibliography of Beno Gutenberg published by Charles F. Richter (1962) was very helpful. I could also use the archives of the California Institute of Technology, the Institute of Meteorology and Geophysics in Frankfurt am Main, and the Johann Wolfgang Goethe-Universität in Frankfurt am Main. Last but not least, the Stadt- und Universitäts Bibliothek Frankfurt helped to solve many bibliographical riddles.

The bibliography is divided in two major parts: monographs and lecture books in the first part and all other contributions in the second. The latter part was subdivided in a list of contributions for which Beno Gutenberg was the only author and a list to which other people also contributed. I tried to follow as far as possible the original written languages of the contributions and, if it was necessary, I added some remarks. Cyrillic characters in Russian publications were transliterated using the German scheme.

Literature:

- Knopoff, Leon (1998). Beno Gutenberg 1889 – 1960. Biographical Memoirs 76, National Academy of Sciences. National Academy Press, Washington D.C. 1998, 35 pp.
Richter, Charles Francis (1962). Memorial to Beno Gutenberg (1889-1960). Proceedings Volume Geological Society America, Annual Report for 1960, 92-104.

2 Monographs and Lecture Books

Die seismische Bodenunruhe

40 S. + curriculum vitae, Inaugural – Dissertation (Ph.D. thesis), Philosophische Fakultät, Georg-Augusts-Universität zu Göttingen, Göttingen 1911 (Verlag Stürtz, Würzburg)

Die mitteleuropäischen Beben vom 16. 11. 1911 und vom 20. 7. 1913

I. Bearbeitung der instrumentellen Aufzeichnungen

VI + 82 S. , Beiheft: 3 S. + 32 Tafeln, Veröffentlichungen des Zentralbureaus der Internationalen Seismologischen Assoziation, Strassburg 1915

Untersuchungen über die Bodenunruhe mit Perioden von 4^S - 10^S in Europa

106 S. , Veröffentlichungen des Zentralbureaus der Internationalen Seismologischen Assoziation, Strassburg 1921

Die seismische Bodenunruhe

X + 69 S. , Habilitation (thesis to become recognized as an academic lecturer (professor) at the Johann-Wolfgang-Goethe Universität in Frankfurt a. Main), Sammlung geophysikalischer Schriften 3, herausgegeben von Carl Mainka, Verlag Bornträger, Berlin 1924

Der Aufbau der Erde

*VII + 168 S. , Verlag Bornträger, Berlin 1925
edition in Russian:*

Stroenie zemli

Perevod s nemeckogo i s dopolenijami A. N. Zilbermana

169 s. , Redakcija M. I. Polikarpova. Oformlenie O. N. Persijaninovej. Korrektura E. V. Smirnovoj. Vypuskajuščaja T. S. Malyševa. Ob'edinennoe Naučno - Tehničeskoe Izdatel'stvo, Moskva 1934, ONTI - 1935

Lehrbuch der Geophysik

VI + 1017 S. , Verlag Bornträger, Berlin 1926 – 1929

This textbook was published in several parts (Lieferungen) between 1926 and 1929.

In the Russian issue of 'Der Aufbau der Erde' an edition in Russian is announced but yet not verified:

Učebnik geofisiki

perevod nemeckogo M. I. Polikarpova 1936 (?)

Beno Gutenberg was the editor of this lecture book with following own contributions:

Einleitung, 1 - 3; Die physikalischen Vorgänge bei Erdbeben, 220 - 307; Wasserwellen und Gezeiten, 308 - 353; Bewegungen der Erdachse, 354 - 377; Der physikalische Aufbau des Erdkörpers, 434 - 499; Die Verwendung von elastischen Wellen zur Erforschung der obersten Erdschichten, 582 - 611; Weitere physikalische Aufschlußmethoden und gemeinsame Verwertung der Ergebnisse, 612 - 617; Geophysik und Lebewesen, 966 - 993

Grundlagen der Erdbebenkunde

189 S. , Sammlung Bornträger 12, herausgegeben von W. R. Eckhardt + J. Würschmidt, Verlag Bornträger, Berlin 1927

edition in Russian:

Osnovy sejsmologii

Perevod s nemeckogo pod redakciej i s dopolenijami G. A. Gamburceva

149 s. , Glav. redakciej obščetehničeskich. literatury i nomografii, Moskva i Leningrad 1935

Handbuch der Geophysik

Beno Gutenberg was editor for all planned 10 volumes between 1929 and 1936 and he was the author of numerous contributions (as specified in detail) of this monumental description of geophysics. All volumes were published in several parts (Lieferungen) over several years. Due to the Nazi regime in Germany Beno Gutenberg was fired as editor and due to World War II not all parts of the 'Handbuch der Geophysik' were finished. Without the driving force of Beno Gutenberg, the 'Handbuch der Geophysik' remains unfinished.

Band I (volume 1): Die Erde als Planet (finished)

XV + 970 S. , Verlag Bornträger, Berlin 1931 – 1936

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Containing by Beno Gutenberg:

Einleitung: Allgemeines über Geophysik, 1 - 7 (1931)

Band II (volume 2): Der Aufbau der Erde (finished)

XV + 1119 S. , Verlag Bornträger, Berlin 1931 – 1933

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Containing by Beno Gutenberg:

Abkühlung und Temperatur der Erde, 1 - 38 (1931); Der physikalische Aufbau der Erde, 440 - 564 (1931)

Band III (volume 3): Veränderungen der Erdkruste (finished)

XII + 686 S. , Verlag Bornträger, Berlin 1930 – 1940

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Containing by Beno Gutenberg:

Kräfte in der Erdkruste, 1 - 31 (1930); Geotektonische Hypothesen, 442 - 547 (1930)

Band IV (volume 4): Erdbeben (finished)

XII + 1202 S. , Verlag Bornträger, Berlin 1929 – 1932

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Containing by Beno Gutenberg:

Theorie der Erdbebenwellen, 1 - 150 (1929); Beobachtungen von Erdbebenwellen, 151 - 263 (1929); Die seismische Bodenunruhe, 264 - 298 (1929); Berichtigungen und Ergänzungen zu Band 4, 1186 - 1190 (1932)

Band V (volume 5): (never published)

Band VI (volume 6): Geophysikalische Aufschlußmethoden (only 1st part)

V + 312 S. , Verlag Bornträger, Berlin 1931

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Band VII (volume 7): Physik der Hydrosphäre (only 1st part)

V + 252 S. , Verlag Bornträger, Berlin 1933

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Band VIII (volume 8): Physik der Atmosphäre 1 (finished)

XVI + 1102 S. , Verlag Bornträger, Berlin 1942 – 1961

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Band IX (volume 9): Physik der Atmosphäre 2 (only 1st, 2nd, and 3rd part)

VIII + 698 S. , Verlag Bornträger, Berlin 1932 – 1938

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

Containing by Beno Gutenberg:

Der Aufbau der Atmosphäre, 1 - 88 (1932); Die Schallausbreitung in der Atmosphäre, 89 - 145 (1932)

Band X (volume 10): Allgemeines (only 1st part)

IV + 117 S. , Verlag Bornträger, Berlin 1940

Facsimile reprint of the old edition: Kraus Reprint, Nendeln/Lichtenstein 1974

N. H. Heck + P. D. Byerly + Beno Gutenberg + H. E. McComb + R. S. McLean + W. W. Moore + H. S. Rappleye + W. F. Reynolds + F. P. Ulrich
Earthquake investigations in California, 1934 – 35

231 pp. , U. S. Coast and Geodetic Survey, Special Publication 201, 1936

Containing by Beno Gutenberg:

Periods of the ground motions in Southern California earthquakes, 163 - 225

T. S. Lovering + K. T. Bainbridge + E. S. Bastin + A. F. Birch + I. S. Bowen + W. H. Bucher + R. T. Chamberlin + R. A. Daly + H. N. Eaton + R. D. Evans + C. N. Fenner + R. W. Goranson + D. T. Griggs + N. C. Grover + Beno Gutenberg + N. H. Heck + W. D. Lambert + F. W. Lee + L. D. Leet + W. C. Lowdermilk + G. W. Morey + C. C. Murdock + A. Nadai + W. W. Rubey + G. T. Rude + L. B. Slichter + W. T. Thom jr. + H. H. Willard

Report of the interdivisional committee on borderland fields between geology, physics, and chemistry, 1937

73 pp. , National Research Council, Division Geology and Geography, 1938

Internal constitution of the Earth

X + 413 pp. , Physic of the Earth Volume 7, 1st edition, McGraw - Hill, New York + London 1939 edition in Russian:

Vnutrennee stroenie Zemli

pod redakciej Beno Gutenberga, perevod s angl. E. A. Macievskoj, pod redakciej B. N. Dostovalova, S. S. Kovnera, P. N. Kropotkina i E. F. Savarenskogo

401 s. , Izdatel'stvo inostranoj literatury, Moskva 1949

Beno Gutenberg was the editor of this book with following own contributions:

Chap. I: Introduction, 3 - 10; chap. VII: The cooling of the Earth and the temperature in its interior, 153 - 164; chap. VIII: Forces in the Earth's crust, 165 - 175; chap. IX: Hypotheses on the development of the Earth's crust and their implications, 177 - 217; with Charles Francis Richter chap. XI: Evidence from deep - focus earthquakes, 291 - 299; with Charles Francis Richter chap. XII: Structure of the crust, 301 - 327; chap. XIV: The elastic constants in the interior of the Earth, 345 - 360; chap. XV: Viscosity, strength, and internal friction in the interior of the Earth, 361 - 384; chap. XVI: Summary, 385 - 389

edition in Russian:

Vvedenie, 11 - 18; Gl. V: Ostyvanie Zemli i ee vnutrennjaja temperatura, 147 - 160; Gl. VI: Sily, dejstvujuščie v zemnoj kore, 161 - 172; Gl. VII: Gipotezy o razvitii zemnoj kory, 173 - 216; (i K. Richter) Gl. IX: Dannye, osnovannye na izuče nii glubokich zemletrjasenij, 304 - 341; (i K. Richter) Gl. X: Stroenie zemnoj kory. Kontinenty i okeany, 314 - 341; Gl. XII: Konstanty uprugosti v nedrach Zemli, 358 - 372; Gl. XIII: Vjazkost', pročnosť' i vnutrennee trenie v nedrach Zemli, 373 - 396; Zaključenie, 397 - 401

Beno Gutenberg + Charles Francis Richter
Seismicity of the Earth

VII + 131 pp. , Geological Society America, Special Paper 34, New York 1941 edition in Russian:

Sejsmicnosť' Zemli

Perevod s angl. E. N. Ljusticha. Pod redakciej E. F. Savarenskogo

160 s. , Gos. Izdatel'stvo inostranoj literatury, Moskva 1948

Beno Gutenberg + Charles Francis Richter
Seismicity of the Earth and associated phenomena

VII + 273 pp. , 1st edition Princeton University Press, Princeton 1949

(F. Andrews + Beno Gutenberg ?)

Bibliography of microseisms

Beno Gutenberg was the principal investigator for this project. The official authorship of this first version of the bibliography of microseisms is not clear. However, both authors published the later version of this bibliography.

*Division of Earthsciences, Seismological Laboratory, Contract W28-099 ac-426, California Institute of Technology
63 pp. , Pasadena 1949*

Internal constitution of the Earth

439 pp. , Physic of the Earth Volume 7, 2nd edition, Dover Publ. , New York 1951

Beno Gutenberg was the editor with following own contributions:

Preface; Chap. I: Introduction, 1 - 7; chap. VII: The cooling of the Earth and the temperature in its interior, 150 - 166; chap. VIII: Forces in the Earth, 167 - 177; chap. IX: Hypotheses on the development of the Earth, 178 - 226; with Charles Francis Richter chap. XI: Evidence from deep - focus earthquakes, 305 - 313; with Charles Francis Richter chap. XII: Structure of the crust, 314 - 339; chap. XIV: The elastic constants in the interior of the Earth, 364 - 381; with Hugo Benioff chap. XV: Strain characteristics of the Earth's interior, 382 - 407; chap. XVI: Summary, 408 - 416

Beno Gutenberg + F. Andrews

Bibliography of microseisms

Division of Earthsciences, Seismological Laboratory, Contract AF 19(122)436, California Institute of Technology

2nd edition, revised and enlarged, published in 2 parts as (Versiac 110):

pp. 1 - 94, Scientific Report No. 1, Pasadena 1952

pp. 95 - 134, Scientific Report No. 2, Pasadena 1956

Beno Gutenberg + Charles Francis Richter

Seismicity of the Earth and associated phenomena

9 + 310 pp. , 2nd edition, revised, Princeton University Press, Princeton 1954

9 + 310 pp. , 2nd edition, revised, (facsimile reprint), Hafner Publ. Co. , New York + London 1965

Physics of the Earth's interior

12 + 240 pp. , 1st edition Academic Press, New York 1959

12 + 240 pp. , 2nd edition Academic Press, New York 1963

*12 + 240 pp. , 3rd edition Academic Press, New York 1968
edition in Russian:*

Fizika zemnych nedr

Perevod s angl. O. I. Silaevoj i O. G. Šaminoj, pod redakciej Ju. V. Rizničenko

263 s. , Izdatel'stvo inostrannoj literatury, Moskva 1963

3 Publications in Scientific Journals Contributions to Special Volumes and Encyclopaedias Abstracts

3.1 Beno Gutenberg as single author

1910

Über seismische Bodenunruhe

Physikalische Zeitschrift **11**, 1184 - 1185, 1910

1912

Die seismische Bodenunruhe

The text is identical with his Ph.D. thesis.

Gerlands Beiträge zur Geophysik **11**, 314 - 353, 1912

1913

Über die Konstitution des Erdinnern, erschlossen aus Erdbebenbeobachtungen

Physikalische Zeitschrift **14**, 1217 - 1218, 1913

1914

Beobachtungen über die Perioden der Erdbebenvorläufer

Gerlands Beiträge zur Geophysik **13**, *Kleine Mitteilungen*, 184 - 196, 1914

Zur Besprechung von M. P. Rudzki „Über Erdbebenwellen V und VI“:

Lassen sich aus den Beobachtungen der Amplituden der Erdbebenwellen Schlüsse auf das Erdinnere ziehen?

Gerlands Beiträge zur Geophysik **13**, *Kleine Mitteilungen*, 198 - 203, 1914

Über Erdbebenwellen

VII A. Beobachtungen an Registrierungen von Fernbeben in Göttingen und Folgerungen über die Konstitution des Erdkörpers

Nachrichten von der Königlichen Gesellschaft der Wissenschaften zu Göttingen, mathematisch-physikalische Klasse, 125 - 176, 1914

Über mikroseismische Bodenunruhe

Physikalische Zeitschrift **15**, 591 - 593, 1914

1915

Über mikroseismische Bodenunruhe

Physikalische Zeitschrift **16**, 285 - 287, 1915

1920

Brandung und Bodenunruhe

Annalen der Hydrographie **48**, 402 - 404, 1920

1923

Der Aufbau der Erde auf Grund von Erdbebenbeobachtungen

Geologisches Archiv, Zeitschrift für die gesamte Geologie und deren Nachbargebiete **1**, 3 - 13, 1923

Bericht über die am vierten und fünften Oktober 1923 in Jena abgehaltene Tagung der Deutschen Seismologischen Gesellschaft

Geologisches Archiv, Zeitschrift für die gesamte Geologie und deren Nachbargebiete **2**, 45 - 48, 1923.

Neue Methoden zur Bestimmung der Herdtiefe von Erdbeben

Zeitschrift für angewandte Geophysik **1**, 65 - 75, 1923

Über den Erdkern in 2900 km Tiefe und die an ihm stattfindenden Reflexionen und Brechungen von Erdbebenwellen

Zeitschrift für angewandte Geophysik **1**, 105 - 115, 1923

Theorie der Erdbebenwellen und verwandter Erscheinungen sowie deren Bedeutung für die Erkenntnis des Erdinnern

In: August Sieberg, Erdbebenkunde, Verlag Gustav Fischer, 283 - 372, Jena 1923

Theoretisches über Seismometer

In: August Sieberg, Erdbebenkunde, Verlag Gustav Fischer, 450 - 459, Jena 1923

Theoretisches über Registriervorrichtungen

In: August Sieberg, Erdbebenkunde, Verlag Gustav Fischer, 459 - 466, Jena 1923

Bestimmung von Konstanten von Seismometern

In: August Sieberg, Erdbebenkunde, Verlag Gustav Fischer, 466 - 477, Jena 1923

Brandung und Bodenunruhe II

Annalen der Hydrographie **51**, 287 - 290, 1923

Die elastischen Konstanten im Erdinnern

Physikalische Zeitschrift **24**, 296 - 299, 1923

Absorption und Fortpflanzungsgeschwindigkeit von seismischen Oberflächenwellen

Physikalische Zeitschrift **24**, 458 - 459, 1923

1924

Dispersion und Extinktion von seismischen Oberflächenwellen und der Aufbau der obersten Erdschichten

Physikalische Zeitschrift **25**, 377 - 381, 1924

Das Erdbeben in der chilenischen Provinz Atacama am 10. November 1922

II. Die Bearbeitung der instrumentellen Aufzeichnungen

*Veröffentlichungen der Reichsanstalt für Erdbebenforschung in Jena 3, 29 - 48 + 18 S. Tafeln,
Verlag Gustav Fischer, Jena 1924*

Nachtrag (addition), Verlag Gustav Fischer, Jena 1925

Die seismische Bodenunruhe in Zi-ka-wei (Bemerkungen zu Untersuchungen von E. Gherzi)

Zeitschrift für Geophysik 1, 69 - 70, 1924

Der Aufbau der Erdkruste auf Grund geophysikalischer Beobachtungen

Zeitschrift für Geophysik 1, 94 - 108, 1924

1925

Zu den Untersuchungen von P. E. Gherzi über die Bodenunruhe

Zeitschrift für Geophysik 1, 165 - 166, 1925

Neuere Untersuchungen über Gezeiten und ähnliche Meeresbewegungen

Zeitschrift für Geophysik 1, 260 - 262, 1925

Neue Auswertung der Aufzeichnungen der Erdbebenwellen infolge der Explosion von Oppau

Physikalische Zeitschrift 26, 258 - 260, 1925

Die Geschwindigkeit der Erdbebenwellen und die elastischen Konstanten in den obersten Erdschichten

Die Naturwissenschaften 13, 360 - 362, 1925

Bearbeitung von Aufzeichnungen einiger Weltbeben

Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft 40, 57 - 88, 1925

Neuere Veröffentlichungen über geophysikalische Aufschließungsmethoden

Internationale Bergwirtschaft 1, 52 - 53, 1925

1926

Das Innere der Erde

*Natur und Museum, Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am
Main 56, 33 - 41, 1926*

Die Geschwindigkeit des Schalls in der Atmosphäre

Physikalische Zeitschrift 27, 84 - 86, 1926

Über Gruppengeschwindigkeit bei Erdbebenwellen

Physikalische Zeitschrift 27, 111 - 114, 1926

Untersuchungen zur Frage bis zu welcher Tiefe die Erde kristallin ist

Zeitschrift für Geophysik 2, 24 - 29, 1926

Die Schallgeschwindigkeit in den untersten Schichten der Atmosphäre

Zeitschrift für Geophysik 2, 101 - 106, 1926

Die Entstehung der anomalen Schallzonen bei Explosionen

Zeitschrift für Geophysik 2, 260 - 266, 1926

Zur Frage der Laufzeitkurven

Zeitschrift für Geophysik **2**, 305 - 309, 1926

Über die Ausbreitung des Schalls in der Atmosphäre

Die Naturwissenschaften **14**, 338 - 342, 1926

Der Aufbau der Atmosphäre

Meteorologische Zeitschrift **43**, 427 - 430, 1926

Die Geschwindigkeit der Erdbebenwellen in den obersten Schichten der Erde und ihr Einfluß auf die Ergebnisse einiger Probleme der Seismometrie

Gerlands Beiträge zur Geophysik **15**, 51 - 63, 1926

Die Schichtung der Erde

Die Umschau **30**, 265 - 268, 1926

1927

Erdbeben und Erdbebenwellen

In: Handbuch der physikalischen und technischen Mechanik

herausgegeben von F. Auerbach und W. Hort, Band III, 387 - 420, Verlag J. A. Barth, Leipzig 1927

Ebbe und Flut

In: Handbuch der physikalischen und technischen Mechanik

herausgegeben von F. Auerbach und W. Hort, Band V, 366 - 391, Verlag J. A. Barth, Leipzig 1927 - 1931

Die Veränderung der Erdkruste durch Fließbewegungen der Kontinentalscholle

Geologische Rundschau **18**, 148 - 149, 1927

Die Veränderung der Erdkruste durch Fließbewegungen der Kontinentalscholle

Gerlands Beiträge zur Geophysik **16**, 239 - 247, 1927

Die Bedeutung der Isostasie

Gerlands Beiträge zur Geophysik **16**, 396 - 403, 1927

Die Geschwindigkeit der Longitudinalwellen im Erdinnern

Gerlands Beiträge zur Geophysik **17**, 356 - 365, 1927

W. Milch †

Gerlands Beiträge zur Geophysik **17**, 443, 1927

Die Bodenunruhe durch Brandung

Zeitschrift für Geophysik **3**, 328 - 329, 1927

Der Aufbau der Erdkruste

Zeitschrift für Geophysik **3**, 371 - 377, 1927

Die Veränderung der Erdkruste durch Fließbewegungen II

Gerlands Beiträge zur Geophysik **18**, 281 - 291, 1927

Die Herdtiefe der Süddeutschen Beben 1911 und 1913

Gerlands Beiträge zur Geophysik **18**, 379 - 382, 1927

1928

Das Aufsuchen von Bodenschätzen, insbesondere von Erzen, mit Hilfe der geophysikalischen Aufschlußmethoden

Metallwirtschaft 7, 628 - 634, 1928

Geh. Reg.-Rat Prof. Dr. E. Wiechert †

Meteorologische Zeitschrift 45, *Kleine Mitteilungen* 183 - 185, 1928

Frankfurter Laufzeitkurven 1928

A chart with travel-time curves was distributed by Beno Gutenberg and cited in the literature as 'Frankfurter Laufzeitkurven 1928'.

Institut für Meteorologie und Geophysik, Frankfurt 1928

Bodenunruhe durch Brandung und durch Frost

Forschungen und Fortschritte 4, 357 - 358, 1928

Bodenunruhe durch Brandung und durch Frost

Zeitschrift für Geophysik 4, 246 - 250, 1928

Mechanik und Thermodynamik des Erdkörpers

With the following single chapters: I. Die Entwicklung der Erde, 662 - 681; III. Beobachtungen über Schwere und Isostasie, 697 - 709; IV. Bewegungen der Erdachse und Polwanderungen, 709 - 719; V. Gezeiten des Erdkörpers, 719 - 725; VI. Die Erdbeben, 725 - 736; VII. Seismometrie, 737 - 790; IX. Die Gestalt der Erde, 799 - 803; X. Die Dichte der Erde und der Druck im Erdinnern, 803 - 808; XI. Die elastischen Konstanten im Erdinnern, 808 - 818; XII. Der Aufbau der Erde (Zusammenfassung), 818 - 827

in: Müller - Pouillet's Lehrbuch der Physik 11. Auflage, Fünfter Band – Erste Hälfte, Physik der Erde,

herausgegeben von Alfred Wegener, Vieweg Verlag, Braunschweig 1928

Der Aufbau der Erdkruste in Europa

Geologische Rundschau 19, 433 - 439, 1928

1929

Bodenunruhe durch Brandung und durch Frost

Verhandlungen der Gesellschaft deutscher Naturforscher und Ärzte. 90. Versammlung zu Hamburg vom 16. - 22. September 1928, 996, 929

Die Erdbeben im Lichte der physikalischen Erdgeschichte

Scientia (Milano) 23, 375 - 384, 1929

edition in French:

Les tremblements de terre d'après l'histoire physique de la terre

Scientia (Milano) 23, *Supplément*, 139 - 148, 1929

Über Fortpflanzung von elastischen Wellen in viskosen Medien

Physikalische Zeitschrift 30, 230 - 231, 1929

Sind Galitzinpendel für Nahbebenaufzeichnungen verwendbar?

Gerlands Beiträge zur Geophysik 22, 100 - 102, 1929

Das Rheinlandbeben vom 13. Dezember 1928
Gerlands Beiträge zur Geophysik **23**, 22 - 34, 1929

Veränderungen der Erdkruste
Natur und Museum, Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main **59**, 477 - 487, 1929

Bemerkung über die Temperatur der Stratosphäre
Gerlands Beiträge zur Geophysik **24**, 76, 1929/30

1930

Hypothesen über die Entwicklung der Erde
Forschungen und Fortschritte **6**, 66 - 67, 1930

Zur Frage der Erdbebenursachen
Forschungen und Fortschritte **6**, 133 - 135, 1930

Bau und Bildung der Erdkruste
Neue Jahrbücher für Wissenschaft und Jugendbildung **6**, 393 - 408, 1930

Nochmals: Zur Frage der Laufzeitkurven
Zeitschrift für Geophysik **6**, 57 - 59, 1930

Bemerkungen zu der vorstehenden Erwiderung von Herrn G. Krumbach
Zeitschrift für Geophysik **6**, 62 - 64, 1930

Registrierungen mit zwei Galitzinpendeln verschiedener Periode
Gerlands Beiträge zur Geophysik **25**, 74 - 80, 1930

Die dynamische Vergrößerung von Schallregistrierungen für andauernde Sinuswellen
Gerlands Beiträge zur Geophysik **26**, 34 - 36, 1930

Schwere und Druck im Erdinnern
Gerlands Beiträge zur Geophysik **26**, 37 - 41, 1930

Der Aufbau des Untergrundes im Pazifischen Ozean
Gerlands Beiträge zur Geophysik **26**, 156 - 157, 1930

Die Verteilung der Massen an der Erdoberfläche - Bemerkungen zu dem Aufsatz von L. Kober
Gerlands Beiträge zur Geophysik **26**, 158 - 160, 1930

Schallgeschwindigkeit und Temperatur in der Stratosphäre
Gerlands Beiträge zur Geophysik **27**, 217 - 225, 1930

Hypotheses on the development of the Earth
Journal Washington Academy Sciences **20**, 17 - 25, 1930

The process of formation of seismic surface waves
Bulletin Seismological Society America **20**, 11 - 14, 1930

1931

Aufbau und Temperatur der Stratosphäre

Gerlands Beiträge zur Geophysik **32**, 87 - 94, 1931

Microseisms in North-America

Bulletin Seismological Society America **21**, 1 - 24, 1931

Structure and temperature of the stratosphere

Bulletin American Meteorological Society **12**, 207, 1931

Structure of the Earth's crust as derived from seismograms

Pan American Geologist **55**, 373 - 374, 1931

1932

Travel time curves at small distances and wave velocities in Southern California

Gerlands Beiträge zur Geophysik **35**, 6 - 45, 1932

Mit welcher Genauigkeit läßt sich die Schallgeschwindigkeit in der Stratosphäre finden?

Gerlands Beiträge zur Geophysik **35**, 46 - 50, 1932

Structure of the Earth's crust derived from seismograms

Bulletin Geological Society America **43**, 236 - 237, 1932

Is present tilting in North America due to glacial melting?

Pan American Geologist **58**, 67 - 68, 1932

1933

Erde (physikalische Beschaffenheit)

*In: Handwörterbuch der Naturwissenschaften Band 3,
2. Auflage, Verlag Gustav Fischer, 762 - 774, Jena 1933*

Über Erdbeben mit Herdtiefen von mehreren hundert Kilometern

Geologische Rundschau **24**, 229 - 239, 1933

Tilting due to glacial melting

Journal of Geology **41**, 449 - 467, 1933

Is present tilting in North America due to glacial melting?

Bulletin Geological Society America **44**, 152 - 153, 1933

1934

Das „Seismological Laboratory“ in Pasadena

Ergebnisse der kosmischen Physik **2**, 213 - 237, 1934

Crustal deformations of gradual type

*Proceedings of the 5th Pacific Science Congress, Victoria and Vancouver, B.C., Canada 1933,
Volume 2, 1297 - 1304, Toronto University Press, Toronto 1934*

The structure of the Earth's crust as indicated by seismological data

Proceedings of the 5th Pacific Science Congress, Victoria and Vancouver, B.C. , Canada 1933, Volume 3, 2511 – 2522, Toronto University Press, Toronto 1934

The propagation of the longitudinal waves produced by the Long Beach earthquake

Gerlands Beiträge zur Geophysik 41, 114 - 120, 1934

1935

Velocities of elastic waves in rocks of various age and at various depth

Bulletin American Association Petroleum Geologists 19, 1842, 1935

The age of the Earth from the changes in its temperature and elastic properties

Science 82, 52, 1935

1936

The amplitudes of waves to be expected in seismic prospecting

Geophysics 1, 252 - 256, 1936

On microseisms

Bulletin Seismological Society America 26, 111 - 117, 1936

On some problems concerning the seismic field methods

Beiträge zur angewandten Geophysik 6, 125 - 140, 1936

Structure of the Earth's crust and the spreading of the continents

Bulletin Geological Society America 47, 1587 - 1610, 1936

Structure of the Earth's crust and the spreading of the continents

Geological Society America Proceedings, 306 - 307, 1936

1937

Geophysics as a science

Geophysics 2, 185 - 187, 1937

Geophysics as a science

Petroleum Engineer 8, Number 6, 78, 1937

On supposed regional variations in travel times

Bulletin Seismological Society America 27, 337 - 348, 1937

The structure of the ocean basin as indicated by seismological data and earthquake epicenters

In: International aspects of oceanography

edited by T. W. Vaughn et al. , National Academy of Science, 41 - 50, Washington D. C. 1937

More about earthquakes

The Sky 2, 12 - 13, 1937

Progress in geophysical prospecting

Petroleum World 34, Annual Review, 1937

1938

On focal points of SKS

Bulletin Seismological Society America **28**, 197 - 200, 1938

Velocity of soundwaves from gun-fire in Southern California

Transactions American Geophysical Union **19**, 156, 1938

1939

Zur Entwicklung der seismographischen Aufschlußmethoden

Ergebnisse der kosmischen Physik **4**, 169 - 218, 1939

Tsunamis and earthquakes

Bulletin Seismological Society America **29**, 517 - 526, 1939

The velocity of sound waves and the temperature in the stratosphere in Southern California

Bulletin American Meteorological Society **20**, 192 - 201, 1939

The structure of the Pacific basin as indicated by earthquakes

Science **90**, 456 - 458, 1939

Correspondence and discussion on Chile earthquake of November 10, 1922

Earthquake Notes **10**, Number 4, 9 - 10, 1939

1941

Mechanism of faulting in Southern California indicated by seismograms

Bulletin Seismological Society America **31**, 263 - 302, 1941

Changes in sea-level, postglacial uplift, and mobility of the Earth's interior

Bulletin Geological Society America **52**, 721 - 772, 1941

Mechanism of faulting in Southern California indicated by seismograms

Bulletin Geological Society America **52**, 1950, 1941

Tectonic processes now in action

Transactions American Geophysical Union **22**, 556 - 558, 1941

Seismology

In: Geology 1888 - 1938, 50th Anniversary Volume,
Geological Society of America, 437 - 470, New York 1941

Notes of interest (roots of mountains)

Earthquake Notes **13**, Number 3, 4, 1941

1942

Propagation of sound waves in the atmosphere

Journal Acoustical Society America **14**, 151 - 155, 1942

Discussion: Is the land around Hudson Bay at present rising?

American Journal Science **240**, 147 - 149, 1942

Earthquakes and structure in Southern California
Bulletin Geological Society America **53**, 1818 - 1819, 1942

1943

Seismological evidence for roots of mountains
Bulletin Geological Society America **54**, 473 - 498, 1943

Earthquakes and structure in Southern California
Bulletin Geological Society America **54**, 499 - 526, 1943

Variations in physical properties within the Earth's crustal layers
Transactions American Geophysical Union **24**, 281 - 282, 1943

1944

Travel times of principal P and S phases over small distances in Southern California
Bulletin Seismological Society America **34**, 13 - 32, 1944

Energy ratio of reflected and refracted seismic waves
Bulletin Seismological Society America **34**, 85 - 102, 1944

Reflected and minor phases in records of near-by earthquakes in Southern California
Bulletin Seismological Society America **34**, 137 - 160, 1944

Larger shocks of 1941 (deep focus excluded)
California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1941, 98, 1944

Larger shocks of 1942 (deep focus excluded)
California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1942, 115, 1944

Larger shocks of 1943
California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1943, 140, 1944

1945

Variations in physical properties within the Earth's crustal layers
American Journal Science **243(A)**, 285 - 312, 1945

Amplitudes of surface waves and magnitudes of shallow earthquakes
Bulletin Seismological Society America **35**, 3 - 12, 1945

Amplitudes of P, PP, and S and magnitude of shallow earthquakes
Bulletin Seismological Society America **35**, 57 - 69, 1945

Magnitude determination for deep-focus earthquakes
Bulletin Seismological Society America **35**, 117 - 130, 1945

Larger shocks of 1944
California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1944, 138, 1945

Microseisms
Report to the U.S. Navy Department, California Institute of Technology Pasadena, 1944

1946

The use of microseisms in hurricane detection (progress-report based on a report of the Navy Department released November 15, 1945)

Transactions American Geophysical Union **27**, 111 - 117, 1946

Interpretation of records obtained from the New Mexico atomic bomb test, July 16, 1945

Bulletin Seismological Society America **36**, 327 - 330, 1946

Physical properties of the atmosphere up to 100 km

Journal of Meteorology **3**, 27 - 30, 1946

Larger shocks of 1945

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1945, 130, 1946

1947

Microseisms and weather forecasting

Journal of Meteorology **4**, 21 - 28, 1947

Larger shocks of 1946

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1946, 120, 1947

1948

On the layer of relatively low velocity at a depth of about 80 kilometers

Bulletin Seismological Society America **38**, 121 - 148, 1948

A geophysicist X-rays mother Earth

Engineering and Science Monthly **11**, 19 - 20, Pasadena 1948

Geophysics in war and peace

Transactions American Geophysical Union **29**, 155 - 156, 1948

On a layer of relatively low velocity at a depth of about 80 kilometers

Bulletin Geological Society America **59**, 1393 - 1394, 1948

Larger shocks of 1947

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1947, 126, 1948

Seismological Notes - „Penesimultaneous“ earthquakes

Earthquake Notes **19**, Number 4, 37, 1948

1949

The structure of the Earth

Scientia (Milano) **43**, 82 - 86, 1949

edition in French:

La structure de la terre

Scientia (Milano) **43**, Suppément, 42 - 46, 1949

Isostasy and its meaning

Tellus **1**, Number 3, 1 - 5, 1949

Unexplained phases in seismograms

Bulletin Seismological Society America **39**, 79 - 92, 1949

New data on the lower stratosphere

Bulletin American Meteorological Society **30**, 62 - 64, 1949

Earth physics

Physics Today **2**, Number 2, 14 - 18, 1949

Microseisms and meteorology

Transactions American Geophysical Union **30**, 169, 1949

Approximations in geophysics

In: Publication dedicated to Imari Bonsdorff on the occasion of his 70th anniversary
Veröffentlichungen des Finnischen Geodätischen Institutes **36**, 41 - 44, 1949

In case of earthquake

Disaster, published by the American Red Cross, 2 p. , July/August 1949

Properties of the Earth's crust beneath the oceans

Bulletin Geological Society America **60**, 1892, 1949

Approximations in geophysics

Bulletin Geological Society America **60**, 1954, 1949

Larger shocks of 1948

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1948, 129, 1949

1950

Das Tibet-Beben vom 15. August 1950

Geologische Rundschau **38**, 164, 1950

Structure of the Earth's crust in the continents

Science **111**, 29 - 30, 1950

Earthquakes in North America

Science **111**, 319 - 324, 1950

Revised travel time curves for Southern California

Bulletin Geological Society America **61**, 1546, 1950

Wave velocities in the Earth's crustal layers

Geophysics **15**, 156, 1950

Larger shocks of 1949

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1949, 72, 1950

1951

Sound propagation in the atmosphere

In: Compendium of Meteorology
published by American Meteorological Society, 366 - 375, 1951

Observations and theory of microseisms

In: Compendium of Meteorology

published by American Meteorological Society, 1303 - 1311, 1951

Travel times from blasts in Southern California

Bulletin Seismological Society America 41, 5 - 12, 1951

Revised travel times in Southern California

Bulletin Seismological Society America 41, 143 - 164, 1951

Earthquakes in North America

Smithsonian Institute Annual Report 1950, 303 - 316, 1951

Crustal layers of the continents and oceans

Bulletin Geological Society America 62, 427 - 440, 1951

Surface waves recorded by a Benioff vectorial seismograph

Bulletin Geological Society America 62, 1527, 1951

Travel times of waves from artificial explosions

Bulletin Geological Society America 62, 1528, 1951

PKKP, P'P', and the Earth's core

Transactions American Geophysical Union 32, 373 - 390, 1951

Earthquakes

Istanbul Teknik Universitesi Bülteni 4, 66 - 70, 1951

Larger shocks of 1950

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1950, 102 - 103, 1951

1952

Seismische Bodenunruhe und Wetter

Umschau 52, 646 - 648, 1952

Elastische Eigenschaften von Gesteinen und Mineralien

In: Landolt Börnstein (6th edition)

III. Band: Astronomie und Geophysik, edited by Julius Bartels + P. ten Bruggencate, 326 - 330, Springer Verlag, Berlin + Göttingen + Heidelberg 1952

Seismizität der Erde

In: Landolt Börnstein (6th edition)

III. Band: Astronomie und Geophysik, edited by Julius Bartels + P. ten Bruggencate, 369 - 375, Springer Verlag, Berlin + Göttingen + Heidelberg 1952

Erdbebenwellen

In: Landolt Börnstein (6th edition)

III. Band: Astronomie und Geophysik, edited by Julius Bartels + P. ten Bruggencate, 375 - 384, Springer Verlag, Berlin + Göttingen + Heidelberg 1952

Waves from blasts recorded in Southern California

Transactions American Geophysical Union **33**, 427 - 431, 1952

SV and SH

Transactions American Geophysical Union **33**, 573 - 584, 1952

Wave velocities in the outer part of the Earth's mantle

Nature **170**, 289 - 290, 1952

Earthquakes: past and future

Engineers and Architects Sphere **1**, 9 - 11, 1952

Earthquakes in California

Looking Forward, Bulletin of The Humanists, Los Angeles California, 1 p. , September 1952

Microseisms with periods of 5 - 8 seconds in the Pacific coastal area, November 25 to December 6, 1951

Bulletin Geological Society America **63**, 1353, 1952

Surface motion in SV and SH

Bulletin Geological Society America **63**, 1353, 1952

1953

Travel times of longitudinal waves from surface foci

National Academy Sciences Washington Proceedings **39**, 849 - 853, 1953

Wave velocities at depths between 50 and 600 kilometers

Bulletin Seismological Society America **43**, 223 - 232, 1953

Microseisms, microbaroms, storms and waves in western North America

Transactions American Geophysical Union **34**, 161 - 173, 1953

Geophysical and geological observations in the Pacific area and tectonic hypotheses

Pacific Science Association, 7th Congress Proceedings New Zealand (1949) **2**, 7 - 9, Wellington 1953

Results from teleseismic records of the 1952 Kern County California, shocks

Bulletin Geological Society America **64**, 1525, 1953

Some general features of low-velocity layers

Bulletin Geological Society America **64**, 1525, 1953

Larger shocks of 1951

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1951, 95, 1953

Larger shocks of 1952

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1952, 104, 1953

Fifteenth award of the William Bowie Medal, Response and Acceptance *Transactions American Geophysical Union* **34**, 354-355, 1953

1954

Effects of low-velocity layers

Geofisica Pura e Applicata **28**, 1 - 10, 1954

and:

Presidential address IASPEI Rome 1954

Low-velocity layers in the Earth's mantle

Bulletin Geological Society America **65**, 337 - 347, 1954

Slip direction in earthquakes calculated from observed ratios SH/SV

Bulletin Geological Society America **65**, 1342, 1954

Postglacial uplift in the Great Lake region

Archiv für Meteorologie, Geophysik und Bioklimatologie **7(A)**, 243 - 251, 1954

Larger shocks of 1953

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1953, 98, 1954

1955

Untersuchungen zur Bodenunruhe in Süd-Kalifornien

Zeitschrift für Geophysik **21**, 177 - 189, 1955

Channel waves in the Earth's crust

Geophysics **20**, 283 - 294, 1955

Wave velocities in the Earth's crust

In: The Earth's crust - a symposium

edited by A. Poldervaart, Geological Society America, Special Paper **62**, 19 - 34, 1955

edition in Russian:

Skorost' rasprostraneniya sejsmičeskich voln v semnoj kore

V sb. : Zemnaja kora

Pod redakciej A. Poldervarta. Perevod s angl. V. Ja. „Arlasa i dr. , pod redakciej i s predisd. V.

E. Chaina, Izdatel'stvo inostranoj literatury. s. 32 - 49. , Moskva 1957

Seismograph stations in California

In: Earthquakes in Kern County, California during 1952

edited by G. B. Oakeshott, Bulletin California Division of Mines San Francisco **171**, 153 - 156, 1955

Epicenter and origin time of the main shock on July 21 and travel times of major phases

In: Earthquakes in Kern County, California during 1952

edited by G. B. Oakeshott, Bulletin California Division of Mines San Francisco **171**, 157 - 163, 1955

The first motion in longitudinal and transverse waves of the main shock and the direction of slip

In: Earthquakes in Kern County, California during 1952

edited by G. B. Oakeshott, Bulletin California Division of Mines San Francisco **171**, 165 - 170, 1955

Magnitude determination for larger Kern County shocks, 1952; effects of station azimuth and calculation methods

In: Earthquakes in Kern County, California during 1952

edited by G. B. Oakeshott, Bulletin California Division of Mines San Francisco 171, 171 - 175, 1955

Geophysical data implied in isostatic calculations

In: Publication dedicated to Weikko A. Heiskanen on the occasion of his 60th anniversary

Veröffentlichungen des Finnischen Geodätischen Institutes 46, 43 - 50, 1955

Low-velocity lithosphere channel

Bulletin Geological Society America 66, 1203 - 1204, 1955

Channel waves in the Earth's crust

Bulletin Geological Society America 66, 1651, 1955

Energy of earthquakes

Science 122, 876, 1955

The energy of earthquakes

Geological Society London, Proceedings 1530, 2, 1955

Larger shocks of 1954

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1954, 112, 1955

1956

Neue Ergebnisse über den Aufbau der Erde

Geologische Rundschau 45, 342 - 353 + 466 + 469, 1956

Verschiebung der Kontinente, eine kritische Betrachtung

In: Geotektonisches Symposium zu Ehren von Hans Stille

herausgegeben von F. Lotze, 411 - 421, Ferdinand Enke Verlag, Stuttgart 1956

edition in Russian:

Kritiče skij obėor voprosa o peremeščenii kontinentov

V kn. : Voprosy sovremennoj zarubežnoj tektoniki,

pod redakciej V. E. Chaina, 452 - 464, Izdatel'stvo inostrannoj literatury, Moskva 1960

Earthquakes in the Arctic area

In: The dynamic north, Volume 1

published by US-Office of Chief Naval Operations for Polar Projects (OP-O3A4), 8 pp. ,

Washington D. C. 1956

Damping of the Earth's free nutation

Nature 177, 887 - 888, 1956

The energy of earthquakes

Quarterly Journal Geological Society London 112, 1 - 14, 1956

Great earthquakes 1896 – 1903

Transactions American Geophysical Union 37, 608 - 614, 1956

Effects on ground on shaking in earthquakes

Transactions American Geophysical Union 37, 757 - 760, 1956

Comparison of seismograms recorded on Mount Wilson and at the Seismological Laboratory, Pasadena

Annales Géophysique **12**, 202 - 208, 1956

Structure of the Earth's interior

Journal Geophysical Research **61**, 379, 1956

Discussion of changes in climate

Journal Geophysical Research **61**, 410, 1956

Uses of International Geophysical Year world-wide data in the solution of geophysical problems

Journal Geophysical Research **61**, 410 - 413, 1956

Revised determinations for 1955

California Institute of Technology Pasadena, Seismological Laboratory Bulletin **1955**, 140 - 141, 1956

1957

Zur Frage der Gebirgswurzeln

Geologische Rundschau **46**, 30 - 38 + 250 + 256, 1957

Effects of ground on earthquake motion

Bulletin Seismological Society America **47**, 221 - 250, 1957

Spectrum of P and S in records of distant earthquakes

Zeitschrift für Geophysik **23**, 316 - 319, 1957

Citation – Nineteenth award of the William Bowie Medal to William Maurice Ewing

Transactions American Geophysical Union **38**, 289 - 290, 1957

Discrepancies between thickness of the crust calculated from seismic and from gravity data

Transactions American Geophysical Union **38**, 392 - 393, 1957

Microseisms with periods of about two seconds in Southern California

Transactions American Geophysical Union **38**, 393, 1957

The „boundary“ of the Earth's inner core

Transactions American Geophysical Union **38**, 750 - 753, 1957

Earthquake energy released at various depths

In: Gedenkboek F. A. Vening Meinesz

Verhandelingen Koninklijk Nederlandsch Geologisch-Mijnbouwkundig Genootschap, Geologische Serie **18**, 165 - 175, 1957

Effects of ground on shaking in earthquakes recorded near Pasadena, California

Bulletin Geological Society America **68**, 1828, 1957

Effects of ground on shaking in earthquakes

Science **125**, 747 - 748, 1957

Seismological and related data

In: American Institute of Physics Handbook

1st edition, McGraw - Hill, 2/101 - 2/114, New York 1957

2nd edition, McGraw - Hill, 2/101 - 2/114, New York 1963

In memoriam Joseph Geszti

Acta Technica Academiae Scientiarum Hungariae **19**, 449 - 454, 1957

edition in Hungarian:

Megemlékezés Geszti Józsefről

Műszaki Tudományok Ostályának Közleményei a Magyar Tudományos Akadémia **23**, 217 - 221, 1957

Revised determinations for 1956

California Institute of Technology Pasadena, Seismological Laboratory Bulletin 1956, 152, 1957

1958

Velocity of seismic waves in the Earth's mantle

Transactions American Geophysical Union **39**, 486 - 489, 1958

edition in Russian:

Skorosti sejsmičeskich voln v mantii Zemli

V sb. : Verchnjaja Mantija Zemli

Perevod pod redakciej Ju. V. Rizničenko, 41 - 49, Izdatel'stvo „Mir“, Moskva 1964

Caustics produced by waves through the Earth's core

Geophysical Journal Royal astron. Society **1**, 238 - 248, 1958

Attenuation of seismic waves in the Earth's mantle

Bulletin Seismological Society America **48**, 269 - 282, 1958

edition in Russian:

Pogloščenie sejsmičeskich voln v mantii Zemli

V sb. : Verchnjaja Mantija Zemli

Perevod pod redakciej Ju. V. Rizničenko, 50 - 67, Izdatel'stvo „Mir“, Moskva 1964

Wave velocities in the Earth's core

Bulletin Seismological Society America **48**, 301 - 314, 1958

Microseisms

Advances in Geophysics **5**, 53 - 92, Academic Press, New York 1958

Two types of microseisms

Journal Geophysical Research **63**, 595 - 597, 1958

Rheological problems of the Earth's interior

In: Rheology: Theory and Applications Volume 2

edited by F. R. Eirich, Academic Press, 401 - 431, New York 1958

The structure of the Earth as viewed 1957

Scientia (Milano) **93** (= **52, Seria 6**), 1 - 5, 1958

edition in French:

La structure de la terre selon l'état de nos connaissances en 1957

Scientia (Milano) **93** (= **52, Seria 6**), Supplément 1 - 6, 1958

Attenuation of seismic waves in the Earth's mantle
Bulletin Geological Society America **69**, 1686, 1958

Spectrum of P and S in records of distance earthquakes
Bulletin Geological Society America **69**, 1686, 1958

Velocity of seismic waves in the Earth's mantle
Bulletin Geological Society America **69**, 1686, 1958

1959

The asthenosphere low-velocity layer
Annali di Geofisica (Rome) **12**, 439 - 460, 1959
edition in Russian:

Astenosfernyj sloj ponižennoj skorosti
V sb. : Verchnjaja Mantija Zemli
Perevod pod redakciej Ju. V. Rizničenko, 68 - 93, Izdatel'stvo „Mir“, Moskva 1964

Earthquake waves reflected at the inside of the core boundary
Journal Geophysical Research **64**, 1503 - 1508, 1959

Wave velocities below the Mohorovičić discontinuity
Geophysical Journal Royal Astronomical Society **2**, 348 - 352, 1959

Major earthquakes of 1957
Bulletin Seismological Society America **49**, 422, 1959

1960

Waves reflected at the „surface“ of the Earth - P'P'P'P'
Bulletin Seismological Society America **50**, 71 - 80, 1960

Major and great earthquakes of 1958
Bulletin Seismological Society America **50**, 323, 1960

PKIKP and pseudo-PKIKP phases at distances of less than 140°
Geophysical Journal Royal Astronomical Society **3**, 250 - 257, 1960

The shadow of the Earth's core
Journal Geophysical Research **65**, 1013 - 1020, 1960

Polar wandering, displacements of continents, and subcrustal currents
In: Festschrift zum 70. Geburtstag von Ernst Kraus
herausgegeben von E. Rammle und E. C. Kraus, Abhandlungen der deutschen Akademie der
Wissenschaften Berlin I, Klasse III für Bergbau, Hüttenwesen und Montangeologie, 306 - 310, 1960

Low-velocity layers in the Earth, ocean, and atmosphere
Science **131**, 959 - 965, 1960
edition in Russian:

Sloi ponižennoj skorosti v zemle, okeane i atmosfere
V sb. : Verchnjaja Mantija Zemli
Perevod pod redakciej Ju. V. Rizničenko, 20 - 40, Izdatel'stvo „Mir“, Moskva 1964

Magnitude and energy of earthquakes

Transactions American Geophysical Union **41**, 148 - 149, 1960

Earthquakes in North America

In: Smithsonian treasure of science **2**, 379 - 397,

revised edition by W. P. True, Simon and Schuster, New York 1960

1961

Earthquakes, distribution, magnitude, and field studies of

In: Encyclopaedic dictionary of physics **2**, 588 - 591,

edited by J. Thewlis et al. , Pergamon Press, Oxford - London - New York - Paris 1961

3.2 Publications with colleagues

1911

Ludwig Geiger + Beno Gutenberg
Konstitution des Erdinnern, erschlossen aus dem Bodenverrückungsverhältnis der einmal reflektierten zu den direkten Longitudinalwellen
Physikalische Zeitschrift **12**, 814 - 818, 1911

1912

Ludwig Geiger + Beno Gutenberg
Konstitution des Erdinnern, erschlossen aus der Intensität longitudinaler und transversaler Erdbebenwellen, und einige Beobachtungen an den Vorläufern
Physikalische Zeitschrift **13**, 115 - 118, 1912

Ludwig Geiger + Beno Gutenberg
Göttinger Laufzeitfunktionen 1911
Supplement to: Geophysikalisches Institut-Göttingen No. 3/5 1912 (weekly seismological reports), 2 pp.

Karl Zoeppritz † + Ludwig Geiger + Beno Gutenberg
Ueber Erdbebenwellen
V: Konstitution des Erdinnern, erschlossen aus dem Bodenverrückungsverhältnis der einmal reflektierten zu den direkten longitudinalen Erdbebenwellen, und einige andere Beobachtungen über Erdbebenwellen
Nachrichten von der Königlichen Gesellschaft der Wissenschaften zu Göttingen, mathematisch-physikalische Klasse, 121 - 206, 1912

Ludwig Geiger + Beno Gutenberg
Ueber Erdbebenwellen
VI: Konstitution des Erdinnern, erschlossen aus der Intensität longitudinaler und transversaler Erdbebenwellen, und einige Beobachtungen an den Vorläufern
Nachrichten von der Königlichen Gesellschaft der Wissenschaften zu Göttingen, mathematisch-physikalische Klasse, 623 - 675, 1912

1930

Beno Gutenberg + Helmut Schlechtweg:
Viskosität und innere Reibung fester Körper
Physikalische Zeitschrift **31**, 745 - 752, 1930

Beno Gutenberg + Helmut Landsberg
Das Taunusbeben vom 22. Januar 1930
Gerlands Beiträge zur Geophysik **26**, 141 - 155, 1930

Beno Gutenberg + Helmut Landsberg
Das Taunusbeben vom 22. Januar 1930
Natur und Museum, Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main **60**, 147 - 151, 1930

1931

Beno Gutenberg + Charles Francis Richter
Pseudoseisms caused by abnormal audibility of gunfire in California
Gerlands Beiträge zur Geophysik **31**, 155 - 157, 1931

Beno Gutenberg + Charles Francis Richter
On supposed discontinuities in the mantle of the Earth
Bulletin Seismological Society America **21**, 216 - 223, 1931

1932

Beno Gutenberg + Charles Francis Richter + Harry O. Wood
The earthquake in Santa Monica Bay, California, on August 30, 1930
Bulletin Seismological Society America **22**, 138 - 154, 1932

Beno Gutenberg + Harry O. Wood + John Peter Buwalda
Experiments testing seismographic methods for determining crustal structure
Bulletin Seismological Society America **22**, 185 - 246, 1932

Arthur L. Day + Beno Gutenberg + Charles Francis Richter + Harry O. Wood
Experiences of a seismologist with "Seismic Methods"
National Research Council, Transactions American Geophysical Union, 13th annual meeting April 28 and 29, 1932, Washington, D.C. , 42-44, 1932

Beno Gutenberg + Harry O. Wood + John Peter Buwalda
Experiments testing seismographic methods for determining crustal structure
Pan American Geologist **58**, 65 - 66, 1932

1933

Beno Gutenberg + Harry O. Wood + Charles Francis Richter
Re suggestion by Dr. Harold Jeffreys regarding \bar{P} and P_g
Gerlands Beiträge zur Geophysik **40**, 97 - 98, 1933

Beno Gutenberg + Charles Francis Richter
Advantages of using geocentric latitude in calculating distances
Gerlands Beiträge zur Geophysik **40**, 380 - 389, 1933

Beno Gutenberg + Harry O. Wood + John Peter Buwalda
Experiments testing seismographic methods for determining crustal structure
Bulletin Geological Society America **44**, 170 - 171, 1933

1934

Beno Gutenberg + Charles Francis Richter
On P^*P^* and related waves
Gerlands Beiträge zur Geophysik **41**, 149 - 159, 1934

Beno Gutenberg + Charles Francis Richter
Contribution to the study of deep-focus earthquakes
Gerlands Beiträge zur Geophysik **41**, 160 - 169, 1934

Beno Gutenberg + Charles Francis Richter
On seismic waves (first paper)
Gerlands Beiträge zur Geophysik **43**, 56 - 133, 1934

John Peter Buwalda + Beno Gutenberg
Investigation of Beartooth overthrust by seismic methods
Geological Society America Proceedings, 69, 1934

John Peter Buwalda + Beno Gutenberg
Seismic methods applied to the Bighorn Basin
Geological Society America Proceedings, 79 - 80, 1934

1935

Beno Gutenberg + Charles Francis Richter
On seismic waves (second paper)
Gerlands Beiträge zur Geophysik **45**, 280 - 360, 1935

John Peter Buwalda + Beno Gutenberg
Investigation of overthrust faults by seismic methods
Science **81**, 384 - 386, 1935

Harry O. Wood + Beno Gutenberg
Earthquake prediction
Science **82**, 219 - 220, 1935

Beno Gutenberg + John Peter Buwalda
Seismic reflection profile across Los Angeles Basin
Geological Society America Proceedings, 327 - 328, 1935

Beno Gutenberg + John Peter Buwalda
Seismic reflection profile across Los Angeles Basin
Pan American Geologist **63**, 303, 1935

1936

Beno Gutenberg + Charles Francis Richter
Revised and additional geocentric coordinates of seismological stations
Gerlands Beiträge zur Geophysik **46**, 198 - 201, 1936

Beno Gutenberg + Charles Francis Richter
On seismic waves (third paper)
Gerlands Beiträge zur Geophysik **47**, 73 - 131, 1936

Beno Gutenberg + Charles Francis Richter
Materials for the study of deep-focus earthquakes
Bulletin Seismological Society America **26**, 341 - 390, 1936
edition in French:

Données relatives a l'étude des tremblements de terre a foyer profond
Publications du Bureau Central Séismologique International, Série A, Travaux Scientifiques **15**,
1 - 70, 1937

Beno Gutenberg + Charles Francis Richter
Magnitude and energy of earthquakes
Science **83**, 183 - 185, 1936

Beno Gutenberg + Charles Francis Richter
Depth and geographical distribution of deep-focus earthquakes
Geological Society America Proceedings, 341, 1936

1937

Beno Gutenberg + Charles Francis Richter
Materials for the study of deep-focus earthquakes (second paper)
Bulletin Seismological Society America **27**, 157 - 184, 1937
partly edited in French:

Données relatives a l'étude des tremblements de terre a foyer profond
Publications du Bureau Central Séismologique International, Série A, Travaux Scientifiques **15**,
1 - 70, 1937

Beno Gutenberg + John Peter Buwalda
Geophysical investigation of Yosemite Valley
Geological Society America Proceedings, 240, 1937

1938

Beno Gutenberg + Charles Francis Richter
Observed times of the Montana earthquake, 1935
Bulletin Seismological Society America **28**, 85 - 88, 1938

Beno Gutenberg + Charles Francis Richter
Seismic waves in the core of the Earth
Nature **141**, 371, 1938

Beno Gutenberg + Charles Francis Richter
P' and the Earth's core
Monthly Notices Royal Astronomical Society, Geophysical Supplement **4**, 363 - 372, 1938

Beno Gutenberg + Charles Francis Richter
Depth and geographical distribution of deep-focus earthquakes
Bulletin Geological Society America **49**, 249 - 288, 1938

1939

Beno Gutenberg + Charles Francis Richter
Depth and geographical distribution of deep-focus earthquakes II
Bulletin Geological Society America **50**, 1511 - 1528, 1939

Beno Gutenberg + Charles Francis Richter
New evidence for a change in physical conditions at depths near 100 kilometers
Bulletin Geological Society America **50**, 1950, 1939

Beno Gutenberg + Charles Francis Richter
On seismic waves (fourth paper)
Gerlands Beiträge zur Geophysik **54**, 94 - 136, 1939

Hugo Benioff + Beno Gutenberg
The Mammoth „Earthquake Fault“ and the related features in Mono County, California
Bulletin Seismological Society America **29**, 333 - 340, 1939

Beno Gutenberg + Charles Francis Richter
New evidence for a change in physical conditions at depths near 100 kilometers
Bulletin Seismological Society America **29**, 531 - 538, 1939

Hugo Benioff + Beno Gutenberg
Observations with electromagnetic microbarographs
Nature **144**, 478 - 479, 1939

Hugo Benioff + Beno Gutenberg
Waves and currents recorded by electromagnetic barographs
Bulletin American Meteorological Society **20**, 421 - 426, 1939

1940

Beno Gutenberg + Charles Francis Richter
Seismicity of the Earth
Bulletin Geological Society America **51**, 1958, 1940

Beno Gutenberg + Charles Francis Richter
Deep focus earthquakes in America
Pacific Science Association, 6th Congress, Proceedings **1**, 149 - 150, University of California Press
1940

1941

Beno Gutenberg + Hugo Benioff
Atmospheric-pressure waves near Pasadena
Transactions American Geophysical Union **22**, 424 - 426, 1941

1942

Beno Gutenberg + Charles Francis Richter
Earthquake magnitude, intensity, energy, and acceleration
Bulletin Seismological Society America **32**, 163 - 192, 1942
edition in Russian:

Magnituda, intenzivnost', énergija i uskorenje kak parametru zemletrjasenij. Čast' I
V kn. : Slabye zemletrjasenija
Perevod pod redakciej Ju. V. Rizničenko, Izdatel'stvo inostrannoj literatury, 45 - 71, Moskva
1961

Beno Gutenberg + Charles Francis Richter
Seismicity of Central and South America
8th American Science Congress Washington 1940, Proceedings **4**, 455, 1942

1943

Beno Gutenberg + Charles Francis Richter
Apparent origin time of \bar{S}^*
Bulletin Seismological Society America **33**, 269 - 280, 1943

Beno Gutenberg + Charles Francis Richter
Recent results of earthquake study in Southern California
Transactions American Geophysical Union **24**, 95 - 96, 1943

1944

Beno Gutenberg + Charles Francis Richter
Frequency of earthquakes in California
Bulletin Seismological Society America **34**, 185 - 188, 1944

1945

Beno Gutenberg + Charles Francis Richter
Seismicity of the Earth (supplementary paper)
Bulletin Geological Society America **56**, 603 - 667, 1945

Beno Gutenberg + Charles Francis Richter
Earthquake study in Southern California 1944
Transactions American Geophysical Union **26**, 313 - 314, 1945

1946

Beno Gutenberg + Charles Francis Richter
Earthquake study in Southern California 1945
Transactions American Geophysical Union **27**, 559 - 560, 1946

Beno Gutenberg + Charles Francis Richter
Seismic waves from atomic bomb tests
Transactions American Geophysical Union **27**, 776, 1946

Beno Gutenberg + Charles Francis Richter
Earthquakes and associated phenomena in the Alpide belt
Bulletin Geological Society America **57**, 1253, 1946

1947

Beno Gutenberg + Charles Francis Richter
Earthquake study in Southern California 1946
Transactions American Geophysical Union **28**, 633 - 634, 1947

Beno Gutenberg + Charles Francis Richter
Seismicity of the Earth
Bulletin Geological Society America **58**, 1252, 1947

Beno Gutenberg + Charles Francis Richter
Energy release in earthquakes
Bulletin Geological Society America **58**, 1266, 1947

1948

Beno Gutenberg + Charles Francis Richter
Erdbebengeographie und Dynamik der Erdkruste

Die Naturwissenschaften **35**, 196 - 202, 1948
edition in French:

Géographie des tremblements de terre et dynamique de la croute terrestre
Annales de l'Institut de Physique du Globe, Université de Strasbourg, nouvelle série **5**, partie 3
Géophysique, 3 - 11, 1950

Beno Gutenberg + Ch'eng - Yi Fu
Remarks on multiple reflections

Geophysics **13**, 45 - 48, 1948

Beno Gutenberg + Charles Francis Richter
Earthquake study in Southern California 1947

Transactions American Geophysical Union **29**, 406 - 407, 1948

Beno Gutenberg + Charles Francis Richter
Deep-focus earthquakes in the mediterranean region

Geofisica Pura e Applicata **12**, 130 - 134, 1948

1949

Beno Gutenberg + Charles Francis Richter + Hugo Benioff
Earthquake study in Southern California 1948

Transactions American Geophysical Union **30**, 595 - 597, 1949

1950

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1949

Transactions American Geophysical Union **31**, 463 - 467, 1950

1951

Beno Gutenberg (chairman) + Hugo Benioff + J. M. Burgers + David Griggs (special editorial committee)
Colloquium on plastic flow and deformation within the Earth (Hershey, Pennsylvania, September 12 - 14, 1950)

Transactions American Geophysical Union **32**, 497 - 543, 1951

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1950

Transactions American Geophysical Union **32**, 749 - 753, 1951

Beno Gutenberg + Hugo Benioff
An investigation of microseisms with meteorological phenomena

Reports 1 - 3 under contract AF 19(122)436, Seismological Laboratory, California Institute of Technology, Pasadena 1951

1952

Hugo Benioff + Beno Gutenberg
The response of strain and pendulum seismographs to surface waves
Bulletin Seismological Society America **42**, 229 - 237, 1952

Beno Gutenberg + Hugo Benioff
Progress report, Seismological Laboratory, California Institute of Technology, 1951
Transactions American Geophysical Union **33**, 759 - 762, 1952

Gordon B. Oakeskott + Hugo Benioff + John Peter Buwalda + Beno Gutenberg + Charles Francis Richter
Arvin-Tehachapi earthquake, July 21, 1952
California Division of Mines San Francisco, Mineral Information Service **5**, Number 9, 1 - 8, 1952

Beno Gutenberg + Hugo Benioff
An investigation of microseisms with meteorological phenomena
Reports 4 - 7 under contract AF 19(122)436, Seismological Laboratory, California Institute of Technology, Pasadena 1952

1953

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1952
Transactions American Geophysical Union **34**, 785 - 791, 1953

Beno Gutenberg + Hugo Benioff
An investigation of microseisms with meteorological phenomena
Reports 8 - 11 under contract AF 19(122)436, Seismological Laboratory, California Institute of Technology, Pasadena 1953

1954

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1953
Transactions American Geophysical Union **35**, 979 - 987, 1954

Charles Francis Richter + Beno Gutenberg
Seismicity of Southern California
In: Geology of Southern California
edited by R. H. Jahns, Bulletin California Division of Mines San Francisco **170**, 19 - 25, 1954

Beno Gutenberg + Hugo Benioff
An investigation of microseisms with meteorological phenomena
Reports 12 - 15 under contract AF 19(122)436, Seismological Laboratory, California Institute of Technology, Pasadena 1954

1955

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1954
Transactions American Geophysical Union **36**, 713 - 718, 1955

Beno Gutenberg + Charles Francis Richter
Magnitude and energy of earthquakes
Nature **176**, 795, 1955

Hugo Benioff + Beno Gutenberg
General introduction to seismology
In: Earthquakes in Kern County, California during 1952
edited by G. B. Oakeshott, Bulletin California Division of Mines San Francisco **171**, 131 - 135, 1955

Beno Gutenberg + Charles Francis Richter
Magnitude and energy: progress report
Bulletin Geological Society America **66**, 1651, 1955

Beno Gutenberg + Hugo Benioff
An investigation of microseisms with meteorological phenomena
Reports 16 - 19 under contract AF 19(122)436, Seismological Laboratory, California Institute of Technology, Pasadena 1955

1956

Hugo Benioff + Beno Gutenberg + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1955
Transactions American Geophysical Union **37**, 232 - 238, 1956

Frank Press + Beno Gutenberg
Channel P waves Π_g in the Earth's crust
Transactions American Geophysical Union **37**, 754 - 756, 1956

Beno Gutenberg + Hugo Benioff
An investigation of microseisms
Final report under contract No. AF 19(122)436, AFCRC-TR56-257, Seismological Laboratory, California Institute of Technology, 39 pp. , Pasadena 1956

Beno Gutenberg + John Peter Buwalda + Robert Philip Sharp
Seismic explorations on the floor of Yosemite Valley, California
Bulletin Geological Society America **67**, 1051 - 1078, 1956

Beno Gutenberg + Charles Francis Richter
Magnitude and energy of earthquakes
Bulletin Geological Society America **67**, 1769, 1956

Beno Gutenberg + Charles Francis Richter
Earthquake magnitude, intensity, energy, and acceleration (second paper)
Bulletin Seismological Society America **46**, 105 - 146, 1956
edition in Russian:

Magnituda, intenzivnost', énergija i uskorenje kak parametru zemletrjasenij. Čast' II
V kn. : Slabye zemletrjasenija
Perevod pod redakciej Ju. V. Rizničenko, Izdatel'stvo inostranoj literatury, 72 - 119, Moskva
1961

Beno Gutenberg + Charles Francis Richter
Magnitude and energy of earthquakes
Annali di Geofisica (Rome) **9**, 1 - 15, 1956

1957

Hugo Benioff + Beno Gutenberg + Frank Press + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1956
Transactions American Geophysical Union **38**, 248 - 254, 1957

1958

Hugo Benioff + Beno Gutenberg + Frank Press + Charles Francis Richter
Progress report, Seismological Laboratory, California Institute of Technology, 1957
Transactions American Geophysical Union **39**, 721 - 725