

CANADA  
DEPARTMENT OF MINES AND TECHNICAL SURVEYS  
*Dominion Observatories*

PUBLICATIONS  
*of the*  
DOMINION OBSERVATORY  
OTTAWA

Volume XXX • No. 5

BIBLIOGRAPHY OF SEISMOLOGY

Items 18573 - 18998

May - August, 1964

F. E. Langill

This document was produced  
by scanning the original publication.

Ce document est le produit d'une  
numérisation par balayage  
de la publication originale.

Price \$1.00

---

ROGER DUHAMEL, F.R.S.C.  
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY  
OTTAWA, 1966





## FOREWORD

We regret to announce that the *Bibliography of Seismology* will cease publication with Vol. 30, No. 6, September – December, 1964.

The Bibliography has been issued by the Observatory since 1926, appearing initially in the *Bulletin of the Seismological Society of America* (Vol. 17, 150–182, 218–248; Vol. 18, 16–23, 110–125, 214–235, 267–283; Vol. 19, 206–227) and then in the *Publications of the Dominion Observatory* Vols. 10, 12, 13, 14, 22, 30.

During this period seismology has vastly expanded in complexity, in the number of scientists involved and in the number of papers published. With the present staff, the Bibliography cannot be maintained and we have reluctantly decided to cease publication.

It is understood that the International Seismological Research Centre, 6 South Oswald Road, Edinburgh 9, Scotland, is studying the problem of continuing a seismological bibliography for 1965 onwards, the new bibliography being orientated towards the use of a computer to produce a subject index automatically. In time the internationally sponsored work may be extended to a comprehensive automatic seismological information retrieval service. One of the problems in undertaking such work is the development of sufficient data flow in the form of reprints, pamphlets and so on. We therefore suggest that the users of this Bibliography ensure that from now onwards the I.S.R.C. (Director, Dr. P. L. Willmore) be included in their distribution lists.

We intend to maintain our extensive and valuable file of seismological reprints in the Library of the Dominion Observatory, this file being available not only for staff scientists but also being frequently used by visiting scientists. We would therefore appreciate receiving reprints and pamphlets exactly as in the past. Seismological publications and contributions will, of course, be exchanged with institutions and others exactly as in the past.

This volume continues the policy initiated with Vol. 30, No. 1, January – April, 1963, in that each paper is listed only once and an author index, giving all authors, is included with this number. Similarly a subject index accompanies the issue. Mrs. F. E. Langill has continued acting as Chief Editor of the Bibliography.

K. WHITHAM,  
*Chief,*  
*Division of Seismology.*

OTTAWA, ONTARIO,  
CANADA.

J. H. HODGSON,  
*Director,*  
*Dominion Observatory.*



# BIBLIOGRAPHY OF SEISMOLOGY

May - August, 1964

In the following lists the sources from which items have been obtained are identified as follows:

Geophysical Abstracts.....	Geophys. Abstr.
I. I. Gurvich.....	I. I. G.
N. V. Shebalin.....	N. V. S.

18573. ADAMS, Wm. M. Earthquakes—An Introduction to Observational Seismology: v + 122 p., *D. C. Heath and Co.*, Boston, 1964.
18574. ADVANCEMENT OF SCIENCE  
Seismological investigations, 1963: v. 21, no. 89, 98–102, London, May, 1964. (Sixty-eight, 1963, annual report of the committee on seismological investigations, including notes by R. Stoneley, P. L. Willmore, L. Jacobs, R. H. Collingbourne, E. F. Baxter, A. E. M. Geddes, B. F. Hinde, H. Jeffreys, and E. R. Lapwood).
18575. AKADEMIYA NAUK SSSR IZVESTIYA SERIYA GEOFIZICHESKAYA  
*Obituary*—LINDEN, N. A., (in Russian), no. 2, p. 260, Moscow, Feb., 1964. P. 149 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18576. AKADEMIYA NAUK SSSR. SOVET PO SEYSMOLOGII  
Atlas of Earthquakes in the USSR: (in Russian), 337 p., *Akad. Nauk SSSR*, Moscow, 1962.
18577. AKHUNDOV, I. D. On the recognition and study of multiple impulses in marine seismic surveying by the controlled directional reception method: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 59–64, Moscow, 1963.  
GEOPHYS. ABSTR.
18578. ALEKSEEV, A. S., VOL'VOVSKY, I. S., ERMILOVA, N. I., KRAUKLIS, P. V., and RYABOY, V. Z. The physical nature of various waves recorded in deep seismic sounding. Communication 3. Comparison of experimental and theoretical data: (in Russian), *Akad. Nauk SSR Izv.*, ser. Geofiz., no. 2, 184–195, Moscow, Feb., 1964. 103–109 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18579. ALLÈGRE, C., DOUSSAINT, L., MECHLER, P., RÉMY, J.-M., and ROCARD, Y. Volcanisme de l'Hérault et réception sismique: *Acad. Sci. Paris Comptes Rendus*, v. 257, no. 16, 2313–2315, Paris, 1963.  
GEOPHYS. ABSTR.
18580. ANDERSON, D. L. The anelasticity of the earth: (abstr. only), *Science*, v. 144, no. 3618, p. 559, Washington, May, 1964.
18581. ANDERSON, D. L. Recent evidence concerning the structure of the upper mantle: 29–46 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), *Univ. of Michigan, Instit. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18582. ANDERSON, D. L., and ARCHAMBEAU, C. B. The anelasticity of the earth: *J. Geophys. Res.*, v. 69, no. 10, 2071–2084, Washington, May 1964.
18583. ANDREEVA, R. I. On tracing discontinuous faults by correlating geophysical and drilling data: (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Sci., v. 144, no. 4, 868–870, Moscow, May-June, 1962. 75–76 in the English edition, *Am. Geol. Inst.*, Washington, Feb., 1964.
18584. ANG, D. D., and KNOPOFF, L. Diffraction of vector elastic waves by a clamped finite strip: *Proc. Nat. Acad. Sci. USA*, v. 52, no. 2, 201–207, Washington, Aug., 1964.
18585. ANTSYFEROV, M. S. The electroseismic effect: (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Sci., v. 144, no. 6, 1295–1297, Moscow, May-June, 1962. 17–18 in the English edition, *Am. Geol. Inst.*, Washington, Feb., 1964.
18586. ARKHIPOV, R. G., and VERESHCHAGIN, L. F. Plastic deformations in a gravitating sphere: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 153, no. 4, 832–834, Moscow, 1963.  
GEOPHYS. ABSTR.
18587. ATLASOV, I. P., VAKAR, V. A., DIBNER, V. D., YEGIAZAROV, B. Kh., ZIMKIN, A. B., and ROMANOVICH, B. S. A new tectonic chart of the Arctic: (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Sci., no. 156, 1341–1342, Moscow, 1964. A translation into English by E. R. Hope appears as Publ. T 412 R of the Directorate of Scientific Information Services, DRB Canada, Ottawa, Aug., 1964.
18588. BAGNALL, P. S. Wrench faulting in Cyprus: *J. Geol.*, v. 72, no. 3, 327–345, Chicago, May, 1964.
18589. BANAUGH, R. P. Application of integral representations of displacement potentials in elasto-dynamics: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1073–1086, Baltimore, Aug., 1964.
18590. BARRETT, D. L., BERRY, M., BLANCHARD, J. E., KEEN, M. J., and MCALISTER, R. E. Seismic studies on the eastern seaboard of Canada; the Atlantic coast of Nova Scotia: *Canadian J. Earth Scis.*, v. 1, no. 1, 10–22, Ottawa, Aug., 1964.
18591. BEHRENDT, J. C. Antarctic Peninsula Traverse Geophysical Results Relating to Glaciological and Geological Studies: *Geophys. and Polar Res. Center, Univ. of Wisconsin, Dept. of Geol.*, Res. Rept. no. 64-1, 112 p., Madison, Mar., 1964.
18592. BEHRENDT, J. C. Crustal geology of Ellsworth Land and the southern Antarctic Peninsula from gravity and magnetic anomalies: *J. Geophys. Res.*, v. 69, no. 10, 2047–2063, Washington, May, 1964.

18593. BELOTELOV, V. L., and KONDORSKAYA, N. V. The spectra of body waves from Kamchatka earthquakes: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 475-482, Moscow, Apr., 1964. 285-289 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18594. BELOUSOV, V. V. Informe de la Comision Sismologica de UNESCO sobre Bolivia: *Petroleo Boliviano*, v. 4, no. 1, 59-62, La Paz, 1962. GEOPHYS. ABSTR.
18595. BEN-MENAHEM, A., and HARKRIDER, D. G. Radiation patterns of seismic surface waves from buried dipolar point sources in a flat stratified earth: *J. Geophys. Res.*, v. 69, no. 12, 2605-2620, Washington, June, 1964. An abstract of a paper of similar title appears in *Am. Geophys. Union Trans.*, v. 45, no. 1, p. 96, Washington, Mar., 1964.
18596. BENTLEY, C. R., and OSTENO, N. A. Antarctic crustal thickness: *Geophys. J.*, v. 8, no. 4, p. 467, London, May, 1964.
18597. BERCKHEMER, H., and SCHNEIDER, G. Near earthquakes recorded with long-period seismographs: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 973-985, June, 1964.
18598. BEREZKIN, V. M. On the problem of the relationship between the density of rocks and the velocity of propagation of elastic waves in them: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 86-87, Moscow, 1963. GEOPHYS. ABSTR.
18599. BERG, J. W., JR., and PAPAGEORGE, G. E. Elastic displacement of primary waves from explosive sources: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 947-959, Baltimore, June, 1964.
18600. BERG, J. W., JR., TREMBLY, L. D., and LAUN, P. R. Primary ground displacements and seismic energy near the GNOME explosion: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1115-1126, Baltimore, Aug., 1964.
18601. BHATTACHARYA, J. On the formation of shadow zone of SH-waves due to low velocity layer: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1127-1135, Baltimore, Aug., 1964.
18602. BLUM, P.-A., GAULON, R., JOBERT, G., and JOBERT, N. Résultats obtenus à l'aide d'un inclinomètre fonctionnant sous vide: *Acad. Sci. Paris Comptes Rendus*, v. 258, no. 1, 283-285, Paris, 1964. GEOPHYS. ABSTR.
18603. BOARDMAN, C. R., RABB, D. D., and McARTHUR, R. D. Responses of four rock mediums to contained nuclear explosions: *J. Geophys. Res.*, v. 69, no. 16, 3457-3469, Washington, Aug., 1964.
18604. BODVARSSON, G., and WALKER, G. P. L. Crustal drift in Iceland: *Geophys. J.*, v. 8, no. 3, 285-300, London, Feb., 1964.
18605. BOLT, B. A. Seismic air waves from the great 1964 Alaskan earthquake: *Nature*, v. 202, no. 4937, 1095-1096, London, June, 1964.
18606. BONANOMI, J. Rapport du l'Observatoire Cantonal a la Commission de l'Observatoire sur l'exercice 1963: *Neuchâtel Obs. Cantonal* 3-9, Neuchatel, 1964.
18607. BONDAREV, V. I. The influence of angular errors in mounting on the accuracy of determination of particle-displacement directions from azimuthal seismic observations: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 374-377, Moscow, Mar., 1964. 223-225 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18608. BOOKER, A., and MITRONOVAS, W. An application of statistical discrimination to classify seismic events: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 961-971, Baltimore, June, 1964.
18609. BOSTROM, R. C. Seismicity in a restricted region: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 987-1001, Baltimore, June, 1964.
18610. BOSTROM, R. C. Seismicity relative to foredeep troughs: *Canadian Petrol. Eng.*, v. 5, no. 3, 22-26, Don Mills, 1964. GEOPHYS. ABSTR.
18611. BOTT, M. H. P. Convection in the earth's mantle and the mechanism of continental drift: *Nature*, v. 202, no. 4932, 583-584, London, May, 1964.
18612. BOUCHON, R., and CLÉMENT, A. Application et développements de la sismique réfraction dans le Nord Sahara Algérien: *Inst. Français Petrole Rev.*, v. 18, no. 10, 1389-1410, Paris, Oct., 1963. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 235, The Hague, June, 1964.
18613. BOWIN, C. A rocky puzzle: *Oceanus*, v. 10, no. 3, 24-25, Woods Hole, 1964. GEOPHYS. ABSTR.
18614. BOYD, F. R. Geological aspects of high-pressure research: *Science*, v. 145, no. 3627, 13-20, Washington, July, 1964.
18615. BOYKO, V. N. A method of continuous determination of error due to the low-velocity zone in investigations by the plane front method: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 15-17, Moscow, 1963. GEOPHYS. ABSTR.
18616. BOYKO, V. N. An attempt to use the plane front method in complex seismogeologic conditions in the case of inclined reflecting horizons: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 18-23, Moscow, 1963. GEOPHYS. ABSTR.
18617. BREINER, S. Piezomagnetic effect at the time of local earthquakes: *Nature*, v. 202, no. 4934, 790-791, London, May, 1964.
18618. BREUSSE, J. J. La prospection géophysique et la recherche minère: *Annales Mines*, no. 1, 7-20, Paris, 1963. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, 234-235, The Hague, June, 1964.
18619. BRUNN, V., and BRICKNELL, G. L. The Chile earthquake recorded by the Hermanus and the S.A.N.A.E. base magnetographs: *S. African J. Sci.*, v. 59, no. 11, 536-539, Johannesburg, 1963. GEOPHYS. ABSTR.
18620. BUBEN, J. Three channel magnetic recorder for seismo-acoustic measurements: (with German and Russian abstrs.), *Geofys. Sbornik*, 1960, no. 141, 473-480, Prague, 1961. GEOPHYS. ABSTR.
18621. BULLEN, K. E. An Introduction to the Theory of Seismology, 3rd ed.: 381 p., *The University Press*, Cambridge, 1963. GEOPHYS. ABSTR.
18622. BULLEN, K. E. New evidence on rigidity in the earth's core: (abstr. only), *Science*, v. 144, no. 3618, 560-561, Washington, May, 1964.
18623. BUNÉ, V. I. Main seismological data used in connection with detailed seismic zoning of Vakhsh River valley: (in Russian), *Akad. Nauk SSR Inst. Fiziki Zemli Trudy*, no. 28(195), 77-86, Moscow, 1963.
18624. BURKHARDT, H. Some physical aspects of seismic scaling laws for underwater explosions: *Geophys. Prospecting*, v. 12, no. 2, 192-214, The Hague, June, 1964.
18625. BUSTAMANTE, J. I. Response spectra of earthquakes on very soft clay: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 855-866, Baltimore, June, 1964.

18626. BYLINSKAYA, L. N., and MESHCHERYAKOV, Yu. A. On the relationship of the gradients of the rate of vertical tectonic movements of the earth's surface to seismicity, exemplified by the area of the western hals of the European part of the USSR: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 154, no. 3, 586-589, Moscow, 1964.  
GEOPHYS. ABSTR.
18627. CALOI, P. Sulla velocità di propagazione delle onde longitudinali alla base del mantello terrestre: *Accad. Naz. Lincei Atti Cl. Sci. Fis., Mat. e Nat. Rend.*, v. 32, no. 2, 147-151, Rome, 1962. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 236, The Hague, June, 1964.
18628. CALOI, P. Sulla natura fisica del nucleo interno della Terra: *Accad. Naz. Lincei Atti. Cl. Sci. Fis., Mat. e Nat. Rend.*, v. 34, no. 4, 352-357, Rome, 1963.  
GEOPHYS. ABSTR.
18629. CALOI, P. I pionieri italiani della geofisica: (with English summary), *Annali Geofis.*, v. 17, no. 1, 175-193, Rome, 1964.
18630. CASSINIS, R. L'influenza della caratteristiche della sorgente nella emmissione dell'energia sismica diffratta: (with English abstr.), *Quad. Geofis. Appl.*, v. 24, 27-38, Milan, 1963.  
GEOPHYS. ABSTR.
18631. ČERVENÝ, V. Theoretical amplitude curves of waves reflected from Mohorovičić discontinuity for some models of one-layered earth's crust: (with Czech summary), *Studia Geophys. et Geod.*, v. 8, no. 1, 34-44, Prague, 1964.
18632. CHALIKOVA, YE. K., and BOYAROVA, YE. D. Determination of the type of geologic section according to seismic survey data in the Kama-Kinel basin: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 3-11, Moscow, 1963.  
GEOPHYS. ABSTR.
18633. CHAUVEAU, J. Effets électro et magnétostismiques: *Acad. Sci. Paris Comptes Rendus*, v. 256, no. 21, 4484-4486, Paris, 1963. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 237, The Hague, June, 1964.
18634. CHEKUNOV, A. V., and PUSTOVALOVA, G. M. Use of subcritical reflections in deep seismic soundings on the southern slope of the Ukrainian shield: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 2, 196-205, Moscow, Feb., 1964. 110-114 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18635. CHINNERY, M. A. The strength of the earth's crust under horizontal shear stress: *J. Geophys. Res.*, v. 69, no. 10, 2085-2089, Washington, May, 1964.
18636. CHU, C., and MA, E. Seismic waves in an elastic medium underlying an unconsolidated superficial layer: (in Chinese with English abstr.), *Acta Geophys. Sinica*, v. 13, no. 2, 106-127, Peking, June, 1964.
18637. CHU, YU. Discovering a weak seismic signal while encountering unexpected obstacles: (in Chinese with Russian summary), *Acta Geophys. Sinica*, v. 13, no. 2, 148-161, Peking, June, 1964.
18638. CLAY, C. S., LIANG, W. L., and WISOTSKY, S. Seismic profiling with a hydroacoustic transducer and correlation receiver: *J. Geophys. Res.*, v. 69, no. 16, 3419-3428, Washington, Aug., 1964.
18639. CLOUD, P. E., JR. Earth science today: *Science*, v. 144, no. 3625, 1428-1431, Washington, June, 1964.
18640. COOK, J. C. Progress in mapping underground solution cavities with seismic shear waves: *Soc. Mining Engineers Trans.*, v. 229, no. 1, 26-32, New York, 1964.  
GEOPHYS. ABSTR.
18641. COOK, N. G. W. The application of seismic techniques to problems in rock mechanics: *Int. J. Rock Mech. Mining Sci.*, v. 1, 169-179, London, 1964.
18642. CRARY, A. P. Seismic studies: 39-67 in Results of United States Traverses in East Antarctica, 1958-1961, *Am. Geog. Soc. IGY World Data Center A Glaciol. Rept.*, no. 7, chap. 4, Washington, 1963.  
GEOPHYS. ABSTR.
18643. DACOSTA, J. A. Effect of Hebgen Lake earthquake on water levels in wells in the United States: 167-178 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964.  
GEOPHYS. ABSTR.
18644. DATYPOV, ZH. A nomogram for constructing a refracting horizon by the  $t_0$  method: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 24-28, Moscow, 1963.  
GEOPHYS. ABSTR.
18645. DAVIS, W. J. Analysis of 2 CPS wave trains on the seismograph array at Mould Bay, Northwest Territory, Canada: Technical Note VSC-5, VELA Seismological Center, Air Force Technical Applications Center Headquarters, United States Air Force, Washington, D.C., Feb., 1964.
18646. DEACON, G. E. R. With "Discovery" in the Indian Ocean: *Oceanus*, v. 10, no. 3, 16-19, Woods Hole, 1964.  
GEOPHYS. ABSTR.
18647. DENISON, R. E. Variations in basement rocks in Texas and Oklahoma: 101-104 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), *Univ. of Michigan, Inst. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18648. DIBBLE, R. R. A portable slow motion magnetic tape recorder for geophysical purposes: *New Zealand J. Geol. Geophys.*, v. 7, no. 3, 445-465, Wellington, Aug., 1964.
18649. DiFILIPPO, D., and PERONACI, F. La sismicità del "Campo fagliato" dell'Aterno: (Terremoto de L'Aquila del June 24, 1958), (with English summary), *Annali Geofis.*, v. 17, no. 1, 195-210, Rome, 1964.
18650. DIMAKOV, A. I., and SHEPTUNOV, V. P. Nomogram for interpretation of traveltimes curves of multiple reflections: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 29-33, Moscow, 1964.  
GEOPHYS. ABSTR.
18651. DIX, C. H. Comments on explosion studies in the Tulsa area—A letter: *Tulsa Geophys. Soc. Proc. 1959-61*, v. 7, 41-44, Tulsa, 1962.  
GEOPHYS. ABSTR.
18652. DIX, C. H. Triggering of some earthquakes: *Proc. Japan Acad.*, v. 40, no. 6, 410-415, Tokyo, June, 1964.
18653. DOLLAR, A. T. J. The seismicity of the Cornubian Peninsula in relation to its structure: *Proc. Ussher Soc.*, v. 1, pt. 2, 43-46, Camborne, 1963.  
GEOPHYS. ABSTR.
18654. DONN, W. L. Alaskan earthquake of 27 March 1964; remote seiche stimulation: *Science*, v. 145, no. 3629, 261-262, Washington, July, 1964.
18655. DONN, W. L., and MCGUINNESS, W. T. An investigation of long-period ocean waves: 26-35 in D. C. Cox and E. McAfee, editors, Proceedings of the Tsunami Meetings Associated with the Tenth Pacific Science Congress, (reported as no. 17255 of this list), *UGGI Monograph*, no. 24, Paris, 1963.
18656. DORBACH, L. P., and DOBROVOL'SKAYA, T. I. On lower Cretaceous paleoseismic phenomena in the Crimea: *Akad. Nauk SSSR Dokl.*, v. 154, no. 3, 590-592, Moscow, 1964.  
GEOPHYS. ABSTR.

18657. DOUZE, E. J. Rayleigh waves in short-period seismic noise: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1197-1212, Baltimore, Aug., 1964.
18658. DRAKE, C. L., and GIRDLER, R. W. A geophysical study of the Red Sea: *Geophys. J.*, v. 8, no. 5, 473-495, London, July, 1964.
18659. DUBOURDIEU, G. Les couloirs algériens de sécurité anti-sismique: *Acad. Sci. Paris Comptes Rendus*, v. 258, no. 9, 2605-2608, Paris, 1964. GEOPHYS. ABSTR.
18660. DUE ROJO, A., S.I. Los desplazamientos de la corteza terrestre: (in Spanish with English summary), *Notas y Comuns. Inst. Geol. y Minero de España*, no. 73, 225-246, Madrid, 1964.
18661. DURBIN, W. P., JR. Comparison of crustal parameters with geoid undulations: 81-99 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), *Univ. of Michigan, Inst. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18662. EDGERTON, H. E. The 'Boomer' sonar source for seismic profiling: *J. Geophys. Res.*, v. 69, no. 14, 3033-3042, Washington, July, 1964.
18663. EGÚA HUERTA, A., and A. OROZCO, J. L. La difracción como medio de interpretación sismológica: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 3, no. 1, 45-59, Mexico D.F., 1962. GEOPHYS. ABSTR.
18664. EIBY, G. A. Earthquakes in Northland: *New Zealand Eng.*, v. 19, no. 4, 125-129, Wellington, Apr., 1964.
18665. EKMAN, S.-R. Subglacial sedimentation, with examples from Northern Sweden. Appendix—The seismic investigations: *Geografiska Annaler*, v. 45, no. 1, 49-51, Stockholm, 1963. GEOPHYS. ABSTR.
18666. ENGEL, A. E. J., and ENGEL, C. G. Composition of basalts from the mid-Atlantic Ridge: *Science*, v. 144, no. 3624, 1330-1333, Washington, June, 1964.
18667. ERICSON, D. B., EWING, M., and WOLLIN, G. Sediment cores from the Arctic and subarctic seas: *Science*, v. 144, no. 3623, 1183-1192, Washington, June, 1964.
18668. EVSEEV, S. V. Some observations regarding the determination of seismic elements by direct waves: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpata'kykh Zemletrusiv*, no. 1 (4) for 1955, 14-21, Kiev, 1958. GEOPHYS. ABSTR.
18669. EVSEEV, S. V. Tables of traveltimes of seismic waves and structure of the earth's crust in the Transcarpathian region: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpats'kykh Zemletrusiv*, no. 2 (5) for 1956, 17-22, Kiev, 1958. GEOPHYS. ABSTR.
18670. EWING, M., LUDWIG, W. J., and EWING, J. I. Sediment distribution in the oceans; the Argentine Basin: *J. Geophys. Res.*, v. 69, no. 10, 2003-2032, Washington, May, 1964.
18671. EZ, V. V. Tectonic conditions for the occurrence of violent earthquakes in the Czechoslovak Carpathians: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 2, 161-173, Moscow, Feb., 1964. 87-102 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18672. FARA, H. D., and SCHEIDEGGER, A. E. The significance of regularities in multiple fault plane solutions of a single earthquake: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 939-945, Baltimore, June, 1964.
18673. FEDOTOV, S. A., BAGDASAROVA, A. M., KUZIN, I. P., and TARAKANOV, R. Z. On the seismicity and deep structure of the southern part of the Kurile Island Arc: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 153, no. 3, 668-671, Moscow, 1963. GEOPHYS. ABSTR.
18674. FERRAES, S. G. A method to investigate earthquake mechanism using S wave data: (with Spanish abstr.), *Anales Inst. Geofis.*, v. 9, 33-43, Mexico, 1963.
18675. FIGUEROA HUERTA, S. Notas sobre dos nuevos métodos de exploracion sismica: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 2, 107-112, Mexico D.F., 1961. GEOPHYS. ABSTR.
18676. FOSTER, M. R., SENG BUSH, R. L., and WATSON, R. J. Design of sub-optimum filter systems for multi-trace seismic data processing: *Geophys. Prospecting*, v. 12, no. 2, 173-191, The Hague, June, 1964.
18677. FRASER, G. D. Intensity, magnitude, and ground break-age: 31-45 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18678. FRASER, G. D., WITKIND, I. J., and NELSON, W. H. A geological interpretation of the epicentral area—the dual-basin concept: 99-106 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18679. GAL'PERIN, E. I. Detailed investigation of a velocity model of the upper part of a profile under conditions of weak velocity differentiation: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 456-474, Moscow, Apr., 1964. 274-284 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18680. GARCIA ROJAS, A. Teoría de los sismo-detectores de bobina móvil: *Asoc. Mexicana Geofísicos Explor. de Bol.*, v. 2, no. 3, 121-137, Mexico D.F., 1961. GEOPHYS. ABSTR.
18681. GASKELL, T. F. Boring deep into the earth: *Inst. Civil Eng. Proc.*, v. 26, 369-386, London, Nov., 1963. GEOPHYS. ABSTR.
18682. GEOTECHNICAL CORPORATION, THE. Improved Seismographs: Semiannual Progress Rept. no. 7, Proj. VT/072, Tech. Rept. no. 64-110, Contr. no. AF 33(657)-9967, ARPA Order no. 104-60—Code no. 8100, iv + 52 p. + appx. 7 p., Garland, Jan.-June, 1964.
18683. GIL'BERSHTEYN, P. G. Reflection of longitudinal waves from straight-line boundaries in perforated layers upon oblique incidence: (in Russian), *Geofiz. Razvedka*, no. 12, 3-11, Moscow, 1963. GEOPHYS. ABSTR.
18684. GIL'BERSHTEYN, P. G., and GURVICH, I. I. Elastic wave absorption in perforated plates for seismic modeling: (in Russian), *Vyssh. Ucheb. Zavedeniy Izv.*, Geol. i Razved., no. 11, 124-138, Moscow, 1962. GEOPHYS. ABSTR.
18685. GILLULY, J. Atlantic sediments, erosion rates, and the evolution of the continental shelf; some speculations: *Geol. Soc. Am. Bull.*, v. 75, no. 6, 483-492, New York, June, 1964.
18686. GIRDLER, R. W. How genuine is the circum-Pacific belt?: *Geophys. J.*, v. 8, no. 5, 537-540, London, July, 1964.
18687. GLADUN, V. A., STROYEV, P. A., USHAKOV, S. A., and FROLOV, A. I. Geophysical investigations of crustal structure of the transition zone from the Antarctic continent to the Indian Ocean in the strip between long 55° and 100°E.: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 153, no. 2, 427-428, Moscow, 1963. GEOPHYS. ABSTR.

18688. GONTOVYI, I. Z. On the procedure of geophysical investigation of the upper part of the section of the inner zone of the Carpathian foreland depression: (in Ukrainian), *Akad. Nauk Ukrayin. RSR Inst. Heol. Korysnykh Kopalyn Pratsi*, v. 3, 134–139, Kiev, 1961.  
GEOPHYS. ABSTR.
18689. GONTOVYI, I. Z. Some problems of interpretation of observations of surface traveltimes curves of reflected waves: (in Ukrainian), *Akad. Nauk Ukrayin. RSR Inst. Heol. Korysnykh Kopalyn Pratsi*, v. 3, 149–151, Kiev, 1961.  
GEOPHYS. ABSTR.
18690. GORSHKOV, G. P. The seismicity of Africa: 101–151 in A Review of the Natural Resources of the African Continent, New York, United Nations Educational, Scientific, and Cultural Organization, New York, 1963.  
GEOPHYS. ABSTR.
18691. GRANTZ, A., PLAFKER, T., and KACHADOORIAN, R. Alaska's Good Friday Earthquake, March 27, 1964. A Preliminary Geologic Evaluation: U.S. Geol. Survey Circ., 491, 35 p., Washington, 1964. GEOPHYS. ABSTR.
18692. GRATINSKY, V. G. Investigation of elastic waves in a model of a well: (in Russian), *Akad. Nauk SSSR Izv., ser. Geofiz.*, no. 3, 322–338, Moscow, Mar., 1964. 188–199 in the English edition, Am. Geophys. Union, Washington, July, 1964.
18693. GRIGOROVA, E. Détermination de la magnitude des séismes en Bulgarie à l'aide du rayon moyen de la surface macroseismique: (in Russian with French summary), *Akad. Nauk Bulgarskata Izv. Otdel. Math. Fiz.*, ser. Geofiz., v. 5, no. 1, 127–131, Sofia, 1964.
18694. GRIGOROVA, E., and PALIEVA, K. Seismicity of the Gorna Oryahovitsa seismic zone: (in Bulgarian with Russian and English summary), *Akad. Nauk Bulgarskata Izv. Otdel. Math. Fiz.*, ser. Geofiz., v. 5, no. 2, 139–151, Sofia, 1964.
18695. GUPTA, I. N., and KISSLINGER, C. Model study of seismic waves from explosions in rectangular cavities: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1105–1113, Baltimore, Aug., 1964.
18696. GURVICH, I. I. Seismic Prospecting: (in Russian), Textbook for universities, 504 p., Gostoptekhizdat, Moscow, 1960. I.I.G.
18697. GURVICH, I. I. Seismic Prospecting. 2nd Ed.: (in Russian), (Textbook for technical colleges), 480 p., Gosgeotekhizdat, Moscow, 1963. I.I.G.
18698. GURVICH, I. I., and GIL'BERSHTEYN, P. G. Elastic waves velocities in perforated plates for seismic model studies: (in Russian), *Geol. Razvedka*, no. 11, 124–137, Moscow, 1962. N.V.S.
18699. HADLEY, J. B. Landslides and related phenomena accompanying the Hebgen Lake earthquake of August 17, 1959: 107–138 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435, Washington, 1964. GEOPHYS. ABSTR.
18700. HALES, A. L. Gravity anomalies and crustal structure: 1–3 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), Univ. of Michigan, Institut. of Sci. and Technol., Acoustics and Seismics Lab., Ann Arbor, July, 1964.
18701. HALES, A. L. A look at the mantle: *Geotimes*, v. 9, no. 1, 9–13, Washington, July-Aug., 1964.
18702. HANLY, T. F. Sediment studies on the Madison River after the Hebgen Lake earthquake: 151–158 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435, Washington, 1964. GEOPHYS. ABSTR.
18703. HATORI, T. A study of the damage to houses due to a tsunami: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 181–191, Tokyo, Mar., 1964.
18704. HAWKINS, L. V. Seismic investigations on the foundation conditions at the Royal Mint Site, Canberra: *Royal Soc. New South Wales*, v. 96, pt. 2–6, 133–139, Sydney, 1963. GEOPHYS. ABSTR.
18705. HEALY, J. H., and PRESS, F. Geophysical studies of basin structures along the eastern front of the Sierra Nevada, California: *Geophysics*, v. 29, no. 3, 337–359, Tulsa, June, 1964.
18706. HENDERSON, G. C. Preliminary study of the crustal structure across the Campeche Escarpment from gravity data: *Geophysics*, v. 28, no. 5, pt. 1, 736–744, Tulsa, Oct., 1963.
18707. HERNÁNDEZ MOEDANO, M. Necesidad de refinar el marcado e interpretación del sismograma en sismología de reflexión: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 4, 213–223, Mexico, D.F., 1961. GEOPHYS. ABSTR.
18708. HERRERA, I. On a method to obtain a Green's function for a multi-layered half space: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1087–1096, Baltimore, Aug., 1964.
18709. HESS, H. H. Seismic anisotropy of the uppermost mantle under oceans: *Nature*, v. 203, no. 4945, 629–631, London, Aug., 1964.
18710. HIRASAWA, T. Elastic waves from a spherical source; aperiodic solutions for Scholte's model: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 2, 101–113, Tokyo, June, 1964. A paper of the same title (in English) appears in *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 897–908, Baltimore, June, 1964, (reported as no. 18711 of this list).
18711. HOFMANN, R. B., and WYLIE, R. W. A magnitude calculation and data handling system: *Earthquake Notes*, v. 35, nos. 1–2, 14–27, Washington, Mar.–June, 1964.
18712. HÔRAI, K. Studies of the thermal state of the earth. The 13th paper. Terrestrial heat flow in Japan: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 93–132, Tokyo, 1964.
18713. HOUTZ, R. E., and EWING, J. I. Sedimentary velocities of the western North Atlantic margin: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 867–895, Baltimore, June, 1964.
18714. HOWELL, B. F., JR., Birth and death of a seismic pulse: *Mineral Industries*, v. 33, no. 9, 1–8, University Park, June, 1964.
18715. IACOPI, R. Earthquake Country: *Lane Book Co.*, Menlo Park, Calif., 1964. A review appears in *Seismol. Soc. Am. Bull.*, v. 54, no. 5, p. 1573, Baltimore, Oct., 1964.
18716. IGY BULLETIN  
International research in the Antarctic: no. 85, 1–6, Washington, July, 1964.
18717. IKEGAMI, R. On the microseisms observed at Koganei, Tokyo (I): (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 2, 68–88, Tokyo, June, 1964.
18718. IOSELIANI, M. S., and PAPALASHVILI, V. G. Sur le séisme de la Mer Caspienne et des régions avoisinantes: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 19, Tiflis, 1960. N.V.S.
18719. IOSELIANI, M. S., and PAPALASHVILI, V. G. Certains aspects de la séismologie tectonique du Caucase oriental et des régions avoisinantes: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 22, Tiflis, 1963. N.V.S.

18720. ISLAS LEAL, J., and EGÚA HUERTA, A. El comportamiento sismológico del atolón conocido con el nombre de "Faja de Oro", Estado de Vera Cruz, Mexico: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 1, 19-41, Mexico D.F., 1961. *GEOPHYS. ABSTR.*
18721. IVANOV, E. V., and KRAVTSOV, A. F. The determination of individual leads in a multistrand cable without damaging their insulation: (in Russian), *Geofiz. Razvedka*, no. 13, 151-152, Moscow, 1963. *GEOPHYS. ABSTR.*
18722. JACKSON, W. H. Changes in the floor of Hebgen Lake: 51-54 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. *GEOPHYS. ABSTR.*
18723. JEBE, E. H., and WILLIS, D. E. An application of the discriminant function technique to seismic records: *Earthquake Notes*, v. 35, nos. 3-4, 28-40, Washington, Sept.-Dec., 1964.
18724. JEFFREYS, H., and SHIMSHONI, M. The times of pP, sS, sP and pS: *Geophys. J.*, v. 8, no. 3, 324-337, London, Feb., 1964.
18725. JENNER, P. La géophysique appliquée à l'exploration. Quelques exemples de ses progrès et de ses possibilités: *Bull. Ass. French Techniciens Petrole*, no. 152, 207-224, Paris, Mar., 1962. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 234, The Hague, June, 1964.
18726. JOBERT, G., and LE MOUËL, J. Tensions thermoélastiques dues à une différence de conductivité thermique: (English and Russian summary), *Annales Geophys.*, v. 20, no. 2, 133-143, Paris, Apr.-June, 1964.
18727. KAJIURA, K. On the bottom friction in an oscillatory current: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 147-174, Tokyo, Mar., 1964.
18728. KAL'YANOV, V. A., and SHENDEROV, V. Z. Checking the identity of seismic amplifiers by use of an electronic commutator: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 34-37, Moscow, 1963. *GEOPHYS. ABSTR.*
18729. KAMINUMA, K. Crustal structure in Japan from the phase velocity of Rayleigh waves. Part 3. Rayleigh waves from the Mindanao shock of Sept. 24, 1957: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 19-38, Tokyo, Mar., 1964.
18730. KANAI, K., and YOSHIZAWA, S. Some new problems of seismic vibrations of a structure. Part 2. (Case of a dam): (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 237-243, Tokyo, Mar., 1964.
18731. KANAREYKIN, B. A. A test of the use of high-frequency seismic reflection surveying in the study of pinch-out zones in the southern part of the West Siberian Lowland: (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 9, 93-101, Novosibirsk, 1963. *GEOPHYS. ABSTR.*
18732. KANE, J., and SPENCE, J. Rayleigh wave transmission on elastic wedges: *Geophysics*, v. 28, no. 5, pt. 1, 715-723, Tulsa, Oct., 1963.
18733. KASPAROVA, S. N., and YURKOVA, L. A. One of the ways of more effective use of seismic apparatus: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 87-91, Moscow, 1963. *GEOPHYS. ABSTR.*
18734. KATS, A. Z. Methods for calculating the hypocentral distances in seismic microzoning: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 95-103, Moscow, 1963.
18735. KATS, R. Erdölgeologische Untersuchungen im chilenischen Längstal: *Erdöl u. Kohle*, v. 16, no. 11, 1089-1094, Berlin, 1963. *GEOPHYS. ABSTR.*
18736. KAY, I. W. Verwendung des C-100-Korrelators in der seismischen Exploration: (with English summary), *Erdöl u. Kohle*, v. 17, no. 4, 264-266, Berlin, 1964. *GEOPHYS. ABSTR.*
18737. KEFELI, A. S. Investigation of velocities of transversal and longitudinal waves in unconsolidated pliocene-quaternary deposits of Rudny Altai: (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 5, 129-132, Novosibirsk, 1964.
18738. KEIMATSU, M. On the frequent small earthquakes in Nanching (118°48'E. 32°03'N.) from 1425 to 1430 and the chronological table of those there in Ming period (1368-1644) (to be continued): (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 188-196, Tokyo, Dec., 1963.
18739. KEIMATSU, M. On the frequent small earthquakes in Nanching (118°48'E. 32°03'N.) from 1425 to 1430 and the chronological table of those there in Ming period (1368-1644) (continued): (in Japanese and English), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 1, 1-13, Tokyo, Mar., 1964.
18740. KEY, F. A., MARSHALL, P. D., and McDOWALL, A. J. Two recent British earthquakes recorded at the U.K. Atomic Energy Authority seismometer array at Eskdalemuir: *Nature*, v. 201, no. 4918, 484-485, London, Feb., 1964. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 236, The Hague, June, 1964.
18741. KEYLIS-BOROK, V. I., and MALINOVSKAYA, L. N. One regularity in the occurrence of strong earthquakes: *J. Geophys. Res.*, v. 69, no. 14, 3019-3024, Washington, July, 1964. A discussion by C. F. Richter follows.
18742. KHROMOVSKIKH, V. S. Seismogenetic structures of the southern Baikal area: (in Russian with English summary), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 8, 68-81, Novosibirsk, 1963. *GEOPHYS. ABSTR.*
18743. KHUDZINSKY, L. L. The "ShPSS" wide-band seismic station: (in Russian), *Akad. Nauk SSSR Izv., ser. Geofiz.*, no. 2, 239-246, Moscow, Feb., 1964. 133-138 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18744. KING, E. R., ZIETZ, I., and ALLDREDGE, L. R. Genesis of the Arctic Ocean Basin: *Science*, v. 144, no. 3626, 1551-1557, Washington, June, 1964.
18745. KIREYCHEV, V. D. Structure of the surface of the crystalline basement in the northwestern part of the Russian platform in the light of new geophysical data: (in Russian), *Sovet. Geol.*, no. 12, 142-144, Moscow, 1963. *GEOPHYS. ABSTR.*
18746. KIRNOS, D. P., KOLESNIKOV, YU. A., and KOGAN, I. A. Determination of response spectra with instruments: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 104-116, Moscow, 1963.
18747. KNOPOFF, L., and HUDSON, J. A. Scattering of elastic waves by small inhomogeneities: *J. Acoust. Soc. Am.*, v. 36, no. 2, 338-343, New York, Feb., 1964.
18748. KOMAKI, S., and KISHINOUYE, F. A report of the Hyuganada earthquake of February 27, 1961: (in Japanese with English abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 245-256, Tokyo, Mar., 1964.

18749. KORF, M. G. Practical procedure in calculating the chief forms of oscillation of systems with several classes of free motion: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 120–125, Moscow, 1963.
18750. KORF, M. G. Selection of dynamic equivalents for seismic responses of scale 7 intensity: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 135–140, Moscow, 1963.
18751. KORYAGIN, V. V., and SOKOLOV, A. F. Wave interference from steeply dipping boundaries: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 12–19, Moscow, 1963. GEOPHYS. ABSTR.
18752. KOSMINSKAYA, I. P. Questions of the study of the earth's crust at the 13th assembly of the IUGG: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 2, 261–263, Moscow, Feb., 1964. 150–152 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18753. KOSTYUK, O. P., and CAL'NYKOV, E. V. Application of an amplifier of alternating current in recording of strong earthquakes: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpats'kykh Zemletrusiv*, no. 1(4) for 1955, 39–42, Kiev, 1958. GEOPHYS. ABSTR.
18754. KOVACH, R. L., LEHNER, F., and MILLER, R. Experimental ground amplitudes from small surface explosions: *Geophysics*, v. 28, no. 5, pt. 1, 793–798, Tulsa, Oct., 1963.
18755. KOYANAGI, R. Y. Hawaiian seismic events during 1962: *U.S. Geol. Survey Prof. Paper 475-D*, art. 144, D112–D117, Washington, 1964. GEOPHYS. ABSTR.
18756. KOZLOV, A. V. The damping of body waves with distance for Tadzhikistan earthquakes: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 575–578, Moscow, Apr., 1964. 346–349 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18757. KREY, T. C. Channel waves as a tool of applied geophysics in coal mining: *Geophysics*, v. 28, no. 5, pt. 1, 701–714, Tulsa, Oct., 1963.
18758. KRIVOV, H. L. Direction of first motion from four earthquakes from a single focus: *Hawaiian Volcano Observatory Summary* 27, 1–3, Washington, Aug., 1964.
18759. KRYLOV, S. V. On accuracy of results of seismic soundings by refracted waves: (in Russian with English summary), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 4, 120–130, Novosibirsk, 1964.
18760. KUMAZAWA, M. On the rock type below a moho-discontinuity: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 217–219, Tokyo, Dec., 1963.
18761. KURUSHIN, R. A. The area affected by the Muya earthquake: (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 5, 122–126, Novosibirsk, 1963. GEOPHYS. ABSTR.
18762. KUZNETSOV, V. P. Epicenters of earthquakes of the Apsheron Peninsula: (in Russian), *Akad. Nauk Azerbaydzhan. SSR Dokl.*, v. 19, no. 8, 43–48, Baku, 1963. GEOPHYS. ABSTR.
18763. LANDEN, D. Alaska earthquake, 27 March 1964: *Science*, v. 145, no. 3627, 74–76, Washington, July, 1964.
18764. LEBEDEV, K. A. A device for summing seismic oscillations: (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 4, 146–150, Novosibirsk, 1964.
18765. LEBEDEVA, T. M., and PAPALASHVILI, V. G. Le séisme le 12 février 1953 à la région de Gori: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 13, Tiflis, 1954. N.V.S.
18766. LEENHARDT, L. Un sondage sismique continu sur le plateau continental près du Planier (Marseille): *Acad. Sci. Paris Comptes Rendus*, v. 257, no. 8, 1541–1544, Paris, 1963. GEOPHYS. ABSTR.
18767. LEHMANN, I. On the velocity of P in the upper mantle: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1097–1103, Baltimore, Aug., 1964.
18768. LIDIAK, E. G. Basement rock distribution in Nebraska: 105–108 in *VESIAC Staff*, editor, *Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle*, (reported as no. 18971 of this list), *Univ. of Michigan, Instit. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18769. LIMÓN, A. C. Aspecto sobre el uso de sismodetectores múltiples: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 1, 3–17, Mexico, D.F., 1961. GEOPHYS. ABSTR.
18770. LIMÓN, A. C. Desventajas en el empleo de filtros de paso de banda ancha: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 3, no. 1, 61–76, Mexico, D.F., 1962. GEOPHYS. ABSTR.
18771. LOTZE, F. Aktuo-geologische Charakteristik des Jahres 1960: *Neues Jahrb. Geol. und Paläont. Monatsh.*, no. 12, 609–628, Stuttgart, 1961. GEOPHYS. ABSTR.
18772. LOTZE, F. Aktuo-geologische Charakteristik des Jahres 1961: *Neues Jahrb. Geol. und Paläont. Monatsh.*, no. 12, 611–631, Stuttgart, 1962. GEOPHYS. ABSTR.
18773. LOTZE, F. Aktuo-geologische Charakteristik des Jahres 1962: *Neues Jahrb. Geol. und Paläont. Monatsh.*, no. 1, 1–24, Stuttgart, 1964. GEOPHYS. ABSTR.
18774. LYNN, R. D. Earth crust measurements by seismograph in Oklahoma—An interim report: *Tulsa Geophys. Soc. Proc. 1959–61*, v. 7, 34–39, Tulsa, 1962. GEOPHYS. ABSTR.
18775. LYUBIMOVA, YE. A., and MAGNITZKY, V. A. Thermo-elastic stresses and the energy of earthquakes: *J. Geophys. Res.*, v. 69, no. 16, 3443–3447, Washington, Aug., 1964.
18776. MA, E. A study of multiple seismometer theory in the presence of microseisms: (in Chinese with English abstr.), *Acta Geophys. Sinica*, v. 12, no. 1, 58–74, Peking, June, 1963. A review by J. T. Kuo appears in *Geophysics*, v. 29, no. 6, p. 1048, Tulsa, Dec., 1964.
18777. MA, E., and CHU, C. Seismic waves in an elastic medium underlying an unconsolidated superficial layer: (in Chinese with English abstr.), *Acta Geophys. Sinica*, v. 13, no. 2, 106–127, Peking, June, 1964.
18778. MAAZ, R. Theoretische Untersuchung der Wechselwirkung zwischen dem mechanischen Empfänger eines Seismographen und einer longitudinalen harmonischen Planwelle im Vollraum: *Veröff. Inst. f. Bodendyn. u. Erdbebenforsch. Jena d. Deutschen Akad. d. Wiss. Berlin*, no. 73, 59 p., Berlin, 1963.
18779. MACDONALD, G. J. F. Tidal friction: *Rev. of Geophys.*, v. 2, no. 3, 467–541, Washington, Aug., 1964.
18780. MAGNITSKY, V. A. Into the depths of our planet: (in Russian), *Izvestiya*, p. 3, Moscow, June 25, 1964. A summary in English appears in *Soviet-Bloc Research in Geophysics, Astronomy, and Space*, no. 97, JPRS 27,685, TT 61-11147-97, 67–68, U.S. Dept. of Commerce, Office of Tech. Services, Washington, D.C., 1964.

18781. MAKSIMOV, L. S., and TOKMAKOV, V. A. The use of a modified SPM-16 seismometer for recording displacements in oscillatory motion: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 370-373, Moscow, Mar., 1964. 220-222 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18782. MARLER, G. D. Effects of the Hebgen Lake earthquake of August 17, 1959, on the hot springs of the Firehole Geyser Basins, Yellowstone National Park: 185-197 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18783. MARUYAMA, T. Statical elastic dislocations in an infinite and semi-infinite medium: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 42, pt. 2, 289-368, Tokyo, June, 1964.
18784. MATTHEWS, R. K. Continuous seismic profiles of a shelf-edge bathymetric prominence in northern Gulf of Mexico: *Gulf Coast Assoc. Geol. Soc. Trans.*, v. 13, 49-58, New Orleans, 1963. GEOPHYS. ABSTR.
18785. McIVOR, I. K. Methods of spectral analysis of seismic data: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1213-1232, Baltimore, Aug., 1964.
18786. MCQUEEN, R. G., FRITZ, J. N., and MARSH, S. P. On the composition of the earth's interior: *J. Geophys. Res.*, v. 69, no. 14, 2947-2965, Washington, July, 1964.
18787. MEANS, W. D. Comments on dynamic fault interpretation: *New Zealand J. Geol. Geophys.*, v. 6, no. 5, 757-768, Wellington, 1963. GEOPHYS. ABSTR.
18788. MEDVEDEV, S. V. Deformation strain on building foundations in connection with strong earthquakes: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 87-94, Moscow, 1963.
18789. MEDVEDEV, S. V. Oscillation of arched dams under seismic loads: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 126-134, Moscow, 1963.
18790. MEDVEDEV, S. V. Schwingungen des Bodens bei starken Erdbeben: (This is a German version of the paper published in Russian in *Akad. Nauk SSSR Sibirskoye Otdel.*, Geol. and Geofiz., no. 14, 14-27, 1963, and appearing as no. 18310 of this list), *Freiberger Forschung.*, C 161, 127-140, Berlin, 1963. GEOPHYS. ABSTR.
18791. MEI, S. On two new seismic phases, Pt and St: *Scientia Sinica*, v. 13, no. 7, 1175-1179, Peking, July, 1964.
18792. MERINO Y CORONADO, J. Notas sobre algunas observaciones sismotectonicas en la Republica Mexicana: (with English abstr.), *Anales Inst. Geofis.*, v. 9, 11-32, Mexico, 1963.
18793. MERRITT, D. W. Velocity anisotropy studies of Precambrian lamellar formations: *Compass*, v. 41, no. 1, 28-39, Provo, 1963. GEOPHYS. ABSTR.
18794. MICHIGAN UNIVERSITY INSTITUTE OF SCIENCE AND TECHNOLOGY  
A bibliography of seismology for the VELA UNIFORM Program, Addendum no. 5: VESIAC Rept. 4410-10-B6, 155 p., Ann Arbor, 1963. GEOPHYS. ABSTR.
18795. MIKHAYLENKO, I. G. Attempt to use the procedure of nonlogitudinal paired profiles under the conditions of the piedmont areas of the Ili intermontane basin: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 3-5, Moscow, 1963. GEOPHYS. ABSTR.
18796. MIKHELEV, I. P. On the possibility of mapping the Paleozoic formations in the Rudnyy Altai by the seismic method: (in Russian with English abstr.), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 9, 83-92, Novosibirsk, 1963. GEOPHYS. ABSTR.
18797. MIKHNO, M. F. Study of the sedimentary layer of the Tyrrhenian and Ionian Seas by seismic methods: (in Russian), *Okeanologiya*, no. 5, 853-860, Moscow, 1963. GEOPHYS. ABSTR.
18798. MINAKAMI, T., HIRAGA, S., MIYAZAKI, T., ITO, K., and GYODA, N. The 1962 eruption of Miyake-sima, one of the Seven Izu Islands, Japan: (in Japanese with English abstr.), *Volcanol. Soc. Japan Bull.*, ser. 2, v. 8, no. 1, 33-41, Tokyo, 1963. GEOPHYS. ABSTR.
18799. MIRCHINK, M. F., BOBUKH, V. A., KRYLOV, N. A., and LEVAVIN, A. I. New data on the geology of the Karpinsky ridge and adjacent territory: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 154, no. 6, 1340-1343, Moscow, 1964. GEOPHYS. ABSTR.
18800. MITRA, A. "SH" type of motion produced by body forces in an elastic quarter-space: (with German summary), *Gerlands Beitr. Geophys.*, v. 73, no. 1, 35-43, Leipzig, 1964.
18801. MIYAMOTO, S. Volcanic earthquakes at Hakone by special astatic magnetometer: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 197-203, Tokyo, Dec., 1963.
18802. MIYAMOTO, S. A plan of systematic observation of the special astatic magnetometer: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 204-207, Tokyo, Dec., 1963.
18803. MIYAMOTO, S. Relation between anomaly of the special astatic magnetometer and earthquakes (I): (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 2, 59-67, Tokyo, June, 1964.
18804. MIYAMOTO, S. Prediction of volcanic eruptions: *J. Geomagnetism and Geoelectricity*, v. 15, no. 3, 176-177, Kyoto, 1964. GEOPHYS. ABSTR.
18805. MIYAMURA, S., HORI, M., MATUMOTO, H., and TSUJIURA, M. Observation of micro-earthquakes by a seismometer array at Hachiman, Gifu Prefecture, Central Japan: (in Japanese with English abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 258-272, Tokyo, Mar., 1964.
18806. MOISEYENKO, F. S., and PAVLOV, Yu. A. Deep structure of the earth's crust in the southeast of central Kazakhstan: (in Russian with English summary), *Akad. Nauk SSSR, Sibirskoye Otdel.*, Geol. and Geofiz., no. 4, 57-72, Novosibirsk, 1964.
18807. MOLTSCHAN, G. M., PISSARENKO, V. F., and SMIRNOVA, N. A. Some statistical methods of detecting signals in noise: *Geophys. J.*, v. 8, no. 3, 319-323, London, Feb., 1964.
18808. MOMOI, T. Tsunami in the vicinity of a wave origin. I.: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 133-146, Tokyo, Mar., 1964.
18809. MOMOI, T. Tsunami in the vicinity of a wave origin. II.: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 42, pt. 2, 369-381, Tokyo, June, 1964.
18810. MOORE, J. G. The 1962 flank eruption of Kilauea: *Hawaiian Volcano Observatory Summary* 28, 1-5, Washington, Aug., 1964.
18811. MORELLI, C. Nuove vie di ricerca aperte dalla Fisica terrestre: *Ricerca Sci. Quaderna*, no. 4, 115 p., Rome, 1962. GEOPHYS. ABSTR.

18812. MOROZOV, M. D., BRODOVY, V. V., BEKZHANOV, G. R., KOLMOGOROV, YU. A., KUZ'MIN, YU. I., KUMINOVA, M. V., EYDLIN, R. A., and GOL'DSHMIDT, V. I. Main geologic structures of Eastern Kazakhstan and the Mugodzhar according to regional geophysical investigations: (in Russian), *Akad. Nauk Kazakh SSR Izv. ser. Geol.*, no. 2 (53), p. 3013, Alma-Ata, 1963.  
GEOPHYS. ABSTR.
18813. MOSKALENKO, V. N. New data on the structure of the sedimentary layer of the Mediterranean Sea: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 152, no. 6, 1457-1460, Moscow, 1963.  
GEOPHYS. ABSTR.
18814. MOTOYA, Y., and NOGOSHI, M. Tremors observed at active volcano, geyser and fumarole: (in Japanese with English abstr.), *Volcanol. Soc. Japan Bull.*, ser. 2, v. 8, no. 1, 20-32, Tokyo, 1963.  
GEOPHYS. ABSTR.
18815. MUELLER, R. F. On comparative planetary studies: *Icarus*, v. 3 no. 1, 83-84, Academic Press, New York and London, May, 1964.
18816. MURPHY, L. M., and BRAZEE, R. J. Seismological investigations of the Hebgen Lake earthquake: 13-17 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964.  
GEOPHYS. ABSTR.
18817. MYERS, W. B., and HAMILTON, W. Deformation accompanying the Hebgen Lake earthquake of August 17, 1959: 55-98 in The Hebgen Lake Earthquake of August, 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964.  
GEOPHYS. ABSTR.
18818. NAGAMUNE, T. Phase velocity of mantle waves in the period range 120 to 440 seconds: (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 28, no. 4, 111-127, Tokyo, Mar., 1963.
18819. NAKAMURA, Y. Model experiments on refraction arrivals from a linear transition layer: 19-27 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), *Univ. of Michigan, Inst. of Sci. and Technol. Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18820. NATIONAL GEOPHYSICAL RESEARCH INSTITUTE BULLETIN Symposium on problems in geophysics relating to the crust of the earth: v. 2, no. 1, 27-39, Council of Scientific and Industrial Res., New Delhi, Mar., 1964.  
Geophysical activities in India: v. 2, no. 1, 40-45, Council of Scientific and Industrial Res., New Delhi, Mar., 1964.
18821. NATURE  
The rigidity of the earth: *Nature*, v. 202, no. 4933, 649-650. London, May, 1964.  
Seismology at Eskdalemuir Observatory: v. 203, no. 4941, p. 127, London, July, 1964.  
New Zealand earthquakes, 1958-59: v. 203, no. 4944, 459-460, London, Aug., 1964.  
Director of Observatories Branch, Canadian Department of Mines and Technical Surveys; Dr. J. H. Hodgson: v. 203, no. 4946, p. 696, London, Aug., 1964.  
Dominion Astronomer; Dr. R. M. Petrie: v. 203, no. 4944, p. 696, London, Aug., 1964.
18822. NAZARNYY, S. A. Interpretation of observations of inverse seismic logging: (in Russian), *Razved. Promyslov. Geofiz.* no. 48, 9-14, Moscow, 1963.  
GEOPHYS. ABSTR.
18823. NAZARNYY, S. A. A graphoanalytical method of establishing the velocity law from traveltimes curves of transient waves: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 39-50, Moscow, 1963.  
GEOPHYS. ABSTR.
18824. NEALE, R. N. The use of isochron charts in seismic refraction interpretation: *Geophys. Prospecting*, v. 12, no. 2, 215-224, The Hague, June, 1964.
18825. NERY ESPAÑA, F. Usos y poligros de los filtros de paso de banda angosta: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 3, 179-183, Mexico, D.F., 1961.  
GEOPHYS. ABSTR.
18826. NERY ESPAÑA, F. Tiempo de retraso: *Asoc. Mexicana Geofísicos de Explor. Bol.*, v. 2, no. 4, 231-236, Mexico, D.F., 1961.  
GEOPHYS. ABSTR.
18827. NGUYEN-HAI Le Noyau terrestre d'après les séismes profonds du Sud de l'océan Pacifique: *Acad. Sci. Paris Comptes Rendus*, v. 257, no. 4, 948-951, Paris, 1963.  
GEOPHYS. ABSTR.
18828. NIELSEN, N. N. Dynamic Response of Multistory Buildings: *California Inst. of Tech., Earthquake Eng. Res. Lab.*, v + 231 p., Pasadena, June, 1964.
18829. NISHIMURA, E. On the relation between the activity of earthquakes and the crustal deformation in the Yoshino District: *Disaster Prev. Res. Inst. Bull.*, v. 14, pt. 1, 1-7, Kyoto, Aug., 1964.
18830. NOMOKONOV, V. P., and GRECHISHNIKOV, G. A. A high-frequency seismic station based on the mass-produced station SS-24P: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 45-47, Moscow, 1963.  
GEOPHYS. ABSTR.
18831. NORDQUIST, J. M. A catalog of southern California earthquakes, and associated electronic data processing programs: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 1003-1011, Baltimore, June, 1964.
18832. NOVOTNÝ, O., and PĚČ, K. Equivalence between Love waves propagating in double layer and single layer medium: (with Czech summary), *Studia Geophys. et Geod.*, v. 8, no. 1, 24-33, Prague, 1964.
18833. NUTTLI, O. Some effects of the crust and free surface on the amplitudes of P and S waves: 5-18 in VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle, (reported as no. 18971 of this list), *Univ. of Michigan, Inst. of Sci. and Technol. Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18834. OHTA, Y. Rayleigh type dispersive waves in stratified double layer. (II). In case of rigid substratum: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 2, 89-100, Tokyo, June, 1964.
18835. OLDALE, R. N., and TUTTLE, C. R. Seismic investigations on Cape Cod, Massachusetts: *U.S. Geol. Survey Prof. Paper 475-D*, Art. 145, D118-D122, Washington, 1964.  
GEOPHYS. ABSTR.
18836. OLIVER, J. Earthquake prediction: *Science*, v. 144, no. 3624, 1364-1365, Washington, June, 1964.
18837. ONASCH, H.-J. Ein Rechenschieber zur Tiefenberechnung von Reflexionen: (with English summary), *Erdöl u. Kohle*, v. 17, no. 1, 37-38, Berlin, 1964.  
GEOPHYS. ABSTR.
18838. ONDA, I. Effect of the intermediate dissipative medium on the transmission of elastic waves through a heterogeneous medium having periodic structures: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 11-18, Tokyo, Mar., 1964.

18839. OSSING, H. A. Dispersion of Rayleigh waves originating in the mid-Atlantic Ridge: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1137–1196, Baltimore, Aug., 1964.
18840. OSTENO, N. A. The ends of the earth: *The Science Teacher*, v. 30, no. 5, 5 p., Washington, Sept., 1963.
18841. OSTENO, N. A., and PARKS, P. E., JR. Seaborne Magnetic Measurements in the Chukchi Sea—Final Report on Arctic Institute of North America Subcontract W-A1 with the Army Quartermaster Research and Engineering Command: *Geophys. and Polar Res. Center, Univ. of Wisconsin, Dept. of Geol.*, Res. Rept. no. 64-5, 31 p., Madison, June, 1964.
18842. ŌTSUKA, M. On Kasahara's expression for the waveform of S-pulse from deep-focus earthquakes: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 2, 114–115, Tokyo, June, 1964.
18843. OXBURGH, E. R. Upper mantle inhomogeneity and the low velocity zone: *Geophys. J.*, v. 8, no. 4, 456–462, London, May, 1964.
18844. PAKISER, L. C. Gravity, volcanism, and crustal structure in the southern Cascade Range, California: *Geol. Soc. Am. Bull.*, v. 75, no. 7, 611–620, New York, July, 1964.
18845. PANASENKO, G. D., and MESHKOVA, Z. S. On the direction of the action of tangential stresses in the focal zone of Hindu Kush earthquakes: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 155, no. 1, 88–91, Moscow, 1964.  
GEOPHYS. ABSTR.
18846. PAPALASHVILI, V. G. Les séismes enregistrés à Tbilissi en 1946: (in Russian), *Kvartalnyi Seismicheskiy Buletin*, v. 19, nos. 1–4, Tiflis, 1954. N.V.S.
18847. PAPALASHVILI, V. G. Sur l'estimation de la précision de l'orientation des foyers d'ébranlement au Caucase par la méthode de repère: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 15, Tiflis, 1956. N.V.S.
18848. PAPALASHVILI, V. G. Bibliographie des ouvrages de géophysique publiés en 1917–1957: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 16, Tiflis, 1957. N.V.S.
18849. PAPALASHVILI, V. G. Certaines données sur l'épaisseur de la croûte terrestre à la région de la mer Caspienne: (in Russian), *Akad. Nauk Gruzin. SSR Soobshch.*, v. 21, no. 1, Tiflis, 1958. N.V.S.
18850. PAPALASHVILI, V. G. Nodographe des ondes séismiques des séismes à faible profondeur du foyer au Caucase: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. N-Z, Moscow, 1959. N.V.S.
18851. PAPALASHVILI, V. G., and IOSELIANI, M. S. Certains renseignements sur la séismicité de la région sud-est du Caucase: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 18, Tiflis, 1959. N.V.S.
18852. PAPALASHVILI, V. G., and IOSELIANI, M. S. Séismes et leur origine: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, Tiflis, 1961. N.V.S.
18853. PAPALASHVILI, V. G., PATARAIA, E. I., and SIKHARULIDZE, D. I. Propagation des ondes à courte période en fonction de la structure de la croûte terrestre: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, no. 22, Tiflis, 1964. N.V.S.
18854. PAPALASHVILI, V. G., and SIKHARULIDZE, D. I. Sur l'interprétation des ondes séismiques, qui surgissent pendant les séismes proches, on cite des séismes en Turquie: (in Russian), *Akad. Nauk Gruzin. SSR Inst. Geofiz. Trudy*, v. 21, Tiflis, 1963. N.V.S.
18855. PAPAZACHOS, B. C. Dispersion of Rayleigh waves in the Gulf of Mexico and Caribbean Sea: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 909–925, Baltimore, June, 1964.
18856. PARKHOMENKO, E. I., and CHZHAO, T. (CHAD CHIEN-SAN) A study of the influence of moisture on the magnitude of the seismoelectric effect in sedimentary rocks by a laboratory method: (in Russian), *Akad. Nauk SSSR Izv.*, ser. geofiz., no. 2, 206–212, Moscow, Feb., 1964. 115–118 in the English edition, *Am. Geophys. Union*, Washington, June, 1964.
18857. PASECHNIK, P. P. An anomaly in the travel times of longitudinal waves on the eastern slope of the Middle Urals: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 570–574, Moscow, Apr., 1964. 343–345 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18858. PERRIER, G. Ondes séismiques enregistrées dans les monts du Forez: *Acad. Sci. Paris Comptes Rendus*, v. 257, no. 6, 1321–1322, Paris, 1963.  
GEOPHYS. ABSTR.
18859. PETERSCHMITT, E., and VISINTINI, G. de Sur les enregistrements séismiques associés à la catastrophe de la digue de Vajont du 9 Octobre 1963: *Acad. Sci. Paris Comptes Rendus*, v. 258, no. 9, 2629–2632, Paris, 1964.  
GEOPHYS. ABSTR.
18860. PETKEVICH, G. I. On the seismogeologic characteristics of the inner zone of the Carpathian foreland depression: (in Ukrainian), *Akad. Nauk Ukrayin. RSR Inst. Heol. Korysnykh Kopalyn Pratsi*, v. 3, 140–148, Kiev, 1961.  
GEOPHYS. ABSTR.
18861. PETKOV, I. Grenzbestimmung zwischen zwei elastischen Medien bei unterhalb der Grenze befindlicher Quelle der elastischen Wellen: (in Bulgarian with Russian and German summary), *Akad. Nauk Bulgarskata Izv. Otdel. Math. Fiz.*, ser. Geofiz., v. 5, no. 2, 153–159, Sofia, 1964.
18862. PETROV, L. V. Calculations of arrays and improvement of their characteristics by the compensation method: (in Russian), *Geofiz. Razvedka*, no. 13, 15–36, Moscow, 1963.  
GEOPHYS. ABSTR.
18863. PÉWÉ, T. Good Friday earthquake, Alaska: *GeoTimes*, v. 8, no. 8, 9–10, Washington, May-June, 1964.
18864. POPESCU, M. Seismic-reflection prospecting in the Blaj-Sibiu region: (with Russian and French abstrs.), *Rumania Com. Geol. Dări de Seamă ale Sed.*, v. 45 (1957–58), 255–270, Bucharest, 1962.  
GEOPHYS. ABSTR.
18865. POPESCU, M. Seismic-reflection prospecting in the region of Treisate (Cioc): (in Rumanian with Russian and French abstr.), *Rumania Com. Geol. Dări de Seamă ale Sed.*, v. 48 (1960–61), 237–243, Bucharest, 1962.  
GEOPHYS. ABSTR.
18866. POPOV, G. I. Tsunami in the Pacific Ocean in May 1960: (in Russian), *Okeanologiya*, v. 3, no. 5, 785–797, Moscow, 1963.  
GEOPHYS. ABSTR.
18867. POPOV, G. I. Tsunami on the coasts of Chile and the conditions of their formation: (in Russian), *Okeanologiya*, v. 4, no. 1, 74–80, Moscow, 1964.  
GEOPHYS. ABSTR.
18868. POUNDER, E. R., and LANGLEBEN, M. P. Arctic sea ice of various ages. II. Elastic properties: *J. Glaciology*, v. 5, no. 37, 99–105, London, 1964.  
GEOPHYS. ABSTR.
18869. PRESS, F., and BIEHLER, S. Inferences on crustal velocities and densities from P wave delays and gravity anomalies: *J. Geophys. Res.*, v. 69, no. 14, 2979–2995, Washington, July, 1964.

18870. PUCHKOV, S. V. The behaviour of buildings built on various ground during the passage of seismic waves: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28 (195), 141–146, Moscow, 1963.
18871. PUZYREV, N. N. Theory of interpretation of isolated seismic observations: (in Russian with English abstr.), *Akad. Nauk SSSR, Sibirskoye Otdel., Geol. and Geofiz.*, no. 9, 66–82, Novosibirsk, 1963. GEOPHYS. ABSTR.
18872. PUZYREV, N. N., KYLOV, S. V., POTAP'EV, S. V., and TRESKOVA, YU. A. Seismic refraction soundings for regional geologic investigations: (in Russian with English summary), *Akad. Nauk SSSR, Sibirskoye Otdel., Geol. and Geofiz.*, no. 8, 55–67, Novosibirsk, 1963. GEOPHYS. ABSTR.
18873. RAGIMOV, SH. S. Second group of Rayleigh waves: (in Russian), *Akad. Nauk Azerbaydzhana SSR Dokl.*, v. 19, no. 9, 51–53, Baku, 1963. GEOPHYS. ABSTR.
18874. RATNIKOVA, L. I., and RATS-KHIZGIYA, M. I. The use of reflected body waves in seismic surveying: (in Russian), *Geofiz. Razvedka*, no. 13, 3–14, Moscow, 1963. GEOPHYS. ABSTR.
18875. REDKOLIS, V. A., and RIKHTER, V. I. Seismic surveying of gently sloping platform structures under the conditions of the Kuibyshev Trans-Volga region: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 20–31, Moscow, 1963. GEOPHYS. ABSTR.
18876. REINHARDT, H.-G. Einige neue Ergebnisse reflexionsseismischer Regional- und Übersichtsmessungen in Brandenburg und Mecklenburg: *Freiberger Forschung.*, C. 161, 117–125, Leipzig, 1963. GEOPHYS. ABSTR.
18877. RICHARDS, T. LL. The origin and distribution of earthquakes: *Applied Materials Res.*, 184–185, London, July, 1964.
18878. RICHTER, C. F. Historical background of the magnitude scale: *The California Institute of Technology*, Div. Geol. Sci., Contr. no. 1247, Pasadena, 1963.
18879. RICHTER, C. F. Our earthquake risk—facts and non-facts: *The California Institute of Technology Quarterly*, Div. Geol. Sci., Contr. no. 1228, 11 p., Pasadena, Jan., 1964.
18880. RICHTER, C. F. Caltech's Seismological Laboratory goes to work on the Alaskan earthquake: *Eng. Sci. Mag.*, no. 1257, 5 p., Pasadena, Apr., 1964.
18881. RIVOSH, L. A. On the structure of the Kamchatka Peninsula and of the bottom of adjacent oceanic areas (according to geophysical data): (in Russian with English summary), *Akad. Nauk SSSR Sibirskoye Otdel., Geol. and Geofiz.*, no. 6, 30–48, Novosibirsk, 1963. GEOPHYS. ABSTR.
18882. RIZNICHENKO, YU. V., and KOSMINSKAYA, I. P. On the nature of the layering of the earth's crust and upper mantle: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 153, no. 2, 323–325, Moscow, 1963. GEOPHYS. ABSTR.
18883. ROBINSON, E. A., and TREITEL, S. Principles of digital filtering: *Geophysics*, v. 29, no. 3, 395–404, Tulsa, June, 1964.
18884. ROBINSON, E. S. Results of Geophysical Studies on the McMurdo to South Pole Traverse: *Geophys. and Polar Res. Center, Univ. of Wisconsin, Dept. of Geol., Res. Rept. Ser. 62–6*, 49 p., Madison, Nov., 1962.
18885. ROBINSON, E. S. Some aspects of subglacial geology and glacial mechanics between the South Pole and the Horlick Mountains: *Geophys. and Polar Res. Center, Univ. of Wisconsin, Dept. of Geol., Res. Rept. Ser. 64–7*, II-3 Seismic measurements, II-3.1—II-3.3, 8–32, Madison, July, 1964.
18886. ROCARD, Y. Azimuthal sensitivity variations of seismograph sites in France: 69–74 in VESIAC Staff, editor, *Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle*, (reported as no. 18971 of this list), *Univ. of Michigan, Institut. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18887. ROCARD, Y. The transverse profile of Montagne Noire Sea shots: 75–79 in VESIAC Staff, editor, *Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle*, (reported as no. 18971 of this list), *Univ. of Michigan, Institut. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18888. ROCARD, Y. Formation du signal séismique lors d'une explosion souterraine: *Acad. Sci. Paris Comptes Rendus*, v. 258, no. 8, 2373–2375, Paris, 1964. GEOPHYS. ABSTR.
18889. ROLLER, J. C. Crustal structure in the vicinity of Las Vegas, Nevada, from seismic and gravity observations: *U.S. Geol. Survey Prof. Paper 475-D*, Art. 143, D108–D111, Washington, 1964. GEOPHYS. ABSTR.
18890. ROSENBAUM, J. H. A note on the computation of Rayleigh wave dispersion curves for layered elastic media: *Seismol. Soc. Am. Bull.*, v. 54, no. 3, 1013–1019, Baltimore, June, 1964.
18891. ROSENBAUM, J. H. The response of an elastic plate submerged in a liquid half-space to explosive sound: *Geophysics*, v. 29, no. 3, 370–394, Tulsa, June, 1964.
18892. ROSENFELD, A. Earthquakes in Alaska: *Life*, v. 56, no. 15, 26–32F—37–38, New York, Apr., 1964.
18893. ROSS, C. P., and NELSON, W. H. Regional seismicity and brief history of Montana earthquakes: 25–30 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18894. ROTHÉ, J. P. Tableau de la séismicité du globe pendant les années 1961 et 1962: *Rev. de l'Union Internationale de Secours*, no. 1, 11–58, Geneva, June, 1964.
18895. ROUX, M., and POUJOL, P. Utilisation de la sismique de détail pour le développement d'un gisement de pétrole: *Inst. Français Petrole Rev.*, v. 18, special edition, 424–432, Paris, Dec., 1963. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 235, The Hague, June, 1964.
18896. RUBINSTEIN, M. F. Determination of the first  $n$  modes of a tall building from a reduced eigenvalue problem: *Seismol. Soc. Am. Bull.*, v. 54, no. 2, 1233–1254, Baltimore, Aug., 1964.
18897. RUSTANOVICH, D. N. On the problem of the mechanism of the Ashkhabad earthquake of 1948 according to data of geophysical investigations: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 153, no. 1, 86–89, Moscow, 1963. GEOPHYS. ABSTR.
18898. RYABOV, A. V., and YAKOVLEV, A. T. Attempt to carry on seismic surveying operations in the conditions of the shallow waters of the northwestern Caspian: *Geofiz. Razvedka*, no. 12, 11–18, Moscow, 1963. GEOPHYS. ABSTR.
18899. SAGALOVA, YE. A. On the processing of Carpathian earthquakes from 1908–1953: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seismich. Sek. Katalog Karpat's'kykh Zemletrusiv*, no. 1(4) for 1955, 22–29, Kiev, 1958. GEOPHYS. ABSTR.

18900. SAHA, B. P. The seismic channel P waves  $\pi_g$  or  $\bar{P}$  and their propagation along the crust of the Indian sub-continent: *Indian J. Meteorol. Geophys.*, v. 13, no. 3, 396-401, New Delhi, 1962.  
GEOPHYS. ABSTR.
18901. SARRO, M. A review of the study of long period surface waves (after 1960 Chilean earthquake): (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 1, 40-55, Tokyo, Mar., 1964.
18902. SARRO, M., and TAKEUCHI, H. Gravity anomalies and the corresponding crustal structure. Part 1. Numerical tables useful in three-dimensional gravity interpretations: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 39-92, Tokyo, Mar., 1964.
18903. SAKAMOTO, T. An investigation on earthquakes in the vicinity of Nagasaki: (in Japanese), *Quart. J. Seismol.*, v. 28, no. 4, 137-145, Tokyo, Mar., 1963.
18904. SANTÔ, T. A review of the investigations into earth's crustal structure from the observation of seismic surface waves. Part I. Oceanic basins: (in Japanese with English abstr.), *J. Geog.*, v. 72, no. 4, 156-177, Tokyo, 1963.  
GEOPHYS. ABSTR.
18905. SANTÔ, T. A review of the investigations into earth's crustal structures from the dispersion of seismic surface waves. Part II. Continental crust: (in Japanese with English abstr.), *J. Geog.*, v. 72, no. 5, 220-243, Tokyo, 1963.  
GEOPHYS. ABSTR.
18906. SANTÔ, T. Where do swells turn into microseisms?—Microseisms of Scandinavia: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 165-180, Tokyo, Dec., 1963.
18907. SANTÔ, T. International meeting of research workers on crustal structure, March 19-22, 1962: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 215-217, Tokyo, Dec., 1963.
18908. SANTÔ, Y. A review of the free oscillation study of the earth (before 1960 Chilean earthquake): (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 1, 14-23, Tokyo, Mar., 1964.
18909. SANTÔ, Y. Soft core spectrum splitting of the torsional oscillation of an elastic sphere and related problems: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 1-10, Tokyo, Mar., 1964.
18910. SAVAGE, J. C., and HASEGAWA, H. S. Some properties of tensile fractures inferred from elastic wave radiation: *J. Geophys. Res.*, v. 69, no. 10, 2091-2100, Washington, May 1964.
18911. SCHEIDECKER, A. E. Erdbebenherdmechanismen: *Vierteljahrsschrift der Naturforschenden Gesellschaft in Zurich*, v. 108, no. 2, 169-180, Zurich, June, 1963. Also appears in *Zurich Instit. Geophys. Mitt.*, no. 43, Zurich, June, 1964.
18912. SCHERBAKOVA, B. YE. Attempt to record body waves and test of sounding procedures in the Zeya-Bureya intermontane basin in the Far Eastern Region: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 51-58, Moscow, 1963.  
GEOPHYS. ABSTR.
18913. SCHMIDT, E. A case of anisotropy of seismic velocity: *Geexploration*, v. 2, no. 1, 28-35, Trondheim, June, 1964.
18914. SCHÖN, J. Modellseismische Untersuchungen im Hinblick auf die Schallgeschwindigkeit in Lockergesteinen: *Freiberger Forschung.*, v. 173, 62 p., Leipzig, Aug., 1964.
18915. SCHWAETZER, T. Sur l'identification des marqueurs de la réfraction sismique dans le Golfe du Lion: *Acad. Sci. Paris Comptes Rendus*, v. 256, no. 8, 1815-1817, Paris, 1963. An abstract appears in *Geophys. Prospecting*, v. 12, no. 2, p. 236, The Hague, June, 1964.
18916. SCOTT, R. C. Records of postearthquake chemical quality of ground water: 179-184 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964.  
GEOPHYS. ABSTR.
18917. SEISMOLOGICAL SECTION, J.M.A., INVESTIGATION SECTION, TOKYO D.M.O. AND MIYAKEJIMA WEATHER STATION  
The eruption of Miyakejima in 1962 (I): (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 28 (supp. vol.), 1-12, Tokyo, 1964.  
The eruption of Miyakejima in 1962 (II): (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 28 (supp. vol.), 13-21, Tokyo, 1964.
18918. SEISMOLOGICAL SOCIETY OF AMERICA, BULLETIN  
Resolutions relating to the International Seismological Centre: v. 54, no. 3, 1021-1022, Baltimore, June, 1964.
18919. SELLEVOIL, M. A. A publications summary on crustal and upper mantle structure in Fennoscandia, Iceland and the Norwegian Sea: 111-124 in *VESIAC Staff, editor, Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle*, (reported as no. 18971 of this list), *Univ. of Michigan, Inst. of Sci. and Technol., Acoustics and Seismics Lab.*, Ann Arbor, July, 1964.
18920. SHECHKOV, B. N. Seismic surface wave dispersion and Eurasian crustal structure: (in Russian), *Akad. Nauk SSSR Izv., ser. Geofiz.*, no. 3, 313-321, Moscow, Mar., 1964. 183-187 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18921. SHEVCHENKO, V. R. On the problem of the calculation of velocity inhomogeneities according to reflection travel-time curves: (in Ukrainian), *Akad. Nauk Ukrainsk SSR Inst. Geofiziki, Geofiz. Sbornik*, no. 4 (6), 101-108, Kiev, 1963.  
GEOPHYS. ABSTR.
18922. SHIN-MIN, L. Report on Hengchun earthquake of Aug. 15, 1959: *Taiwan Weather Bureau*, 1-22, 1-65, Taiwan, July, 1960.
18923. SHTREIS, N. A., and YANSHIN, A. L. A criticism and discussion of the book "Principal Problems of Geotectonics," by V. V. Beloussov, (reported as no. 15392 of this list), (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel., Geol. and Geofiz.*, no. 5, 139-144, Novosibirsk, 1964.
18924. SHURBET, D. H. The high-frequency S phase and structure of the upper mantle: *J. Geophys. Res.*, v. 69, no. 10, 2065-2070, Washington, May, 1964.
18925. SIMMONS, G. Gravity survey and geological interpretation, northern New York: *Geol. Soc. Am. Bull.*, v. 75, no. 2, 81-98, New York, Feb., 1964.
18926. SKIKEVYCH, O. K. On the question of automatic signaling at seismic stations: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin RSR Seysmich Sek. Katalog Karpats'kykh Zemletrusiv*, no. 2 (5) for 1956, 23-37, Kiev, 1958.  
GEOPHYS. ABSTR.
18927. SKORIK, L. A. Charts of the recurrence of tremors of different intensity: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 117-119, Moscow, 1963.

18928. SOKOLOV, A. F. On the working out of traveltimes curves of refracted waves (in the first arrivals) in reflection surveying: (in Russian), *Razved. Promyslov. Geofiz.*, no. 49, 32–38, Moscow, 1963. GEOPHYS. ABSTR.
18929. SOLLOGUB, V. B., CHEKUNOV, A. V., KALYUZHNAIA, L. T., and KHILINSKY, L. A. On the deep structure of the Korosten pluton according to seismic data: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 152, no. 5, 1212–1217, Moscow, 1963. GEOPHYS. ABSTR.
18930. SOLLOGUB, V. B., CHEKUNOV, A. V., PAVLENKOVA, N. I., KHILINSKY, L. A., GARKALENKO, I. A., SHPORT, L. P., NIKIFOROV, B. S., and BORODULIN, M. A. Deep structure of the Crimean lowland area and Sivash area according to geophysical data: (in Ukrainian), *Akad. Nauk Ukrainsk. SSR Inst. Geofiziki, Geofiz. Sbornik*, no. 6 (8), 3–14, Moscow, 1963. GEOPHYS. ABSTR.
18931. SOLOV'EV, S. L., and SOLOV'EVA, O. N. A comparison of the amplitude fields of body waves from Kuril-Kamchatka and Mediterranean Sea earthquakes: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 483–493, Moscow, Apr., 1964. 290–296 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18932. SOLUKVADZE, G. M. A method of continuous tracing of to in the reflection method: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 6–8, Moscow, 1963. GEOPHYS. ABSTR.
18933. STAUDER, W., S.J. A comparison of multiple solutions of focal mechanisms: *Seismol. Soc. Am Bull.*, v. 54, no. 3, 927–937, Baltimore, June, 1964.
18934. STEPHENS, D. R. The hydrostatic compression of eight rocks: *J. Geophys. Res.*, v. 69, no. 14, 2967–2978, Washington, July, 1964.
18935. STERMITZ, F. Effects of the Hebgen Lake earthquake on surface water: 139–150 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18936. STEWART, S. W., HOFMANN, R. B., DIMENT, W. H. Some aftershocks of the Hebgen Lake earthquake: 19–24 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18937. SUBIZA, G. P., and BÅTH, M. Core phases and the inner core boundary: *Geophys. J.*, v. 8, no. 5, 496–513, London, July, 1964.
18938. SWENSON, F. A. Ground-water phenomena associated with the Hebgen Lake earthquake: 159–165 in *The Hebgen Lake, Montana, Earthquake of August 17, 1959, U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. GEOPHYS. ABSTR.
18939. SYTINSKY, A. D., and TRIPOL'NIKOV, V. P. Some results of investigations of the natural vibrations of ice fields of the central Arctic: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 615–621, Moscow, Apr., 1964. 370–374 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18940. TAKAHASI, R. Coastal effects upon tsunamis and storm surges: (with Japanese abstr.), *Earthquake Res. Inst. Bull.*, v. 42, pt. 1, 175–180, Tokyo, Mar., 1964.
18941. TAKEUCHI, H. A review of the free oscillation study of the earth (after 1960 Chilean earthquake): (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 1, 24–27, Tokyo, Mar., 1964.
18942. TAKEUCHI, H., DORMAN, J., and SAITO, M. Partial derivatives of surface wave phase velocity with respect to physical parameter changes within the earth: *J. Geophys. Res.*, v. 69, no. 16, 3429–3441, Washington, Aug., 1964.
18943. TALWANI, M., and SUTTON, G. H. Comment on "Seismic delays in the eastern Caribbean" by K. G. Barr and G. R. Robson, (reported as no. 15926 of this list): *Geophys. J.*, v. 8, no. 4, 463–466, London, May 1964.
18944. TANAKA, T. Study on the relation between local earthquakes and minute ground deformation. Part 1. On some statistical results from local earthquakes occurred in the Wakayama District: *Disaster Prev. Res. Inst. Bull.*, v. 14, pt. 1, 55–77, Kyoto, Aug., 1964.
18945. TANAKA, T., and MORISHITA, T. Microtremor measurement in the disaster area of the northern Miyagi earthquake of April 30, 1962: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 42, pt. 2, 397–406, Tokyo, June, 1964.
18946. TANAKA, Y. The eruption of Miyakejima in 1962. (III): (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 28, 23–28, Tokyo, 1964.
18947. TATSCH, J. H. Distribution of active volcanoes; summary of preliminary results of three-dimensional least-squares analysis: *Geol. Soc. Am. Bull.*, v. 75, no. 8, 751–752, New York, Aug., 1964.
18948. TEISSEYRE, R. The method of the continuous dislocation field and its application to the fold theory: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1059–1072, Baltimore, Aug., 1964.
18949. TEN, C. V. The dependence of the dynamic properties of diffracted waves on the physical parameters of the medium: (in Chinese with Russian summary), *Acta Geophys. Sinica*, v. 13, no. 2, 128–147, Peking, 1964.
18950. TEXAS INSTRUMENTS INCORPORATED Worldwide Collection and Evaluation of Earthquake Data—Semianual Technical Report No. V. 31 Oct., 1963, Revised 24 Feb., 1964. Vol. II. Station Assessment: Prepared for Geophys. Res. Directorate, AFCRL, Office of Aerospace Res., U.S.A.F., Contr. No. AF 19(604)-8517, Bedford, Mass., sponsored by ARPA, Proj. no. 8100, Task 2, Order no. 292, Amend. 7, Proj. VELA UNIFORM, 2-i + 2-1 — 2-144, Dallas, July, 1964.
18951. THOMSON, R. B. Wilkes-Vostok seismic traverse, 1962–63: *Polar Rec.*, v. 12, no. 77, 192–193, Cambridge, May, 1964.
18952. THRASHER, J. E., and SCHEIDECKER, A. E. On the connection between stress and displacements in faulted regions: *Zeitschr. Geophys.*, v. 29, no. 6, 309–314, Würzburg, 1963. GEOPHYS. ABSTR.
18953. TITOV, N. D., and BRYKOV, V. D. Channel oscillographic re-recording on the SSM-57 seismic station: *Geofiz. Razvedka*, no. 12, 19–21, Moscow, 1963. GEOPHYS. ABSTR.
18954. TOCHER, D. Earthquakes and rating scales: *GeoTimes*, v. 8, no. 8, 15–18, Washington, May-June, 1964.
18955. TOCHER, D. Earthquake intensity and magnitude scales: *GeoTimes*, v. 9, no. 1, 19–20, Washington, July-Aug., 1964.
18956. TOKSOZ, M. N., and SCHWAB, F. Bonding of layers in two-dimensional seismic modeling: *Geophysics*, v. 29, no. 3, 405–413, Tulsa, June, 1964.
18957. TORIUMI, I. Model test on the random shaking table: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 208–214, Tokyo, Dec., 1963.
18958. TRESKOV, A. A. Use of the method of "straight-line epicenters" for determining the epicenter of a distant earthquake: (in Russian), *Akad. Nauk SSSR Sibirskoye Otdel., Geol. and Geofiz.*, no. 6, 92–96, Novosibirsk, 1963. GEOPHYS. ABSTR.

18959. TRIGUBOV, A. V. On the appearance of loops in travel-time curves of head waves: (in Russian), *Akad. Nauk SSSR, Sibirskoye Otdel., Geol. and Geofiz.*, no. 7, 103–109, Novosibirsk, 1963. *GEOPHYS. ABSTR.*
18960. TSEI-WEN, T. Dynamic characteristics of seismic waves in real media in the presence of a fault: (in Russian), *Akad. Nauk SSSR Izv., ser. Geofiz.*, no. 3, 339–348, Moscow, Mar., 1964. 200–205 in the English edition, *Am. Geophys. Union*, Washington, July, 1964.
18961. TSENG, J. S. The nature of the Mohorovičić discontinuity: (in Chinese with English abstr.), *Acta Geophys. Sinica*, v. 13, no. 2, 180–188, Peking, June, 1964.
18962. TSIMEL'ZON, I. O. Structure of the Lenkoran (Talysh) region according to the data of geophysical investigations: (in Russian), *Vyssh. Ucheb. Zavedeniy Izv., Neft' i Gaz*, no. 11, 15–16, Moscow, 1963. *GEOPHYS. ABSTR.*
18963. TUCKER, P. M. Earth crust measurements by seismograph in Oklahoma—A preliminary report: *Tulsa Geophys. Soc. Proc.*, v. 7, 25–33, Tulsa, 1962. *GEOPHYS. ABSTR.*
18964. UHLMANN, M. Untertageseismische Untersuchungen im Süderharz-Kalisalzgebiet: *Freiberger Forschung.*, C 161, 29–46, Leipzig, 1963. *GEOPHYS. ABSTR.*
18965. USAMI, T., and SATÔ, Y. Propagation of spheriodal disturbances on a homogeneous elastic sphere: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 42, pt. 2, 273–287, Tokyo, June, 1964.
18966. UTSU, T. Magnitude distribution of earthquakes with special consideration for aftershock activities: (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 28, no. 4, 129–136, Tokyo, Mar., 1963.
18967. UTZMANN, R. Halbautomatisches Korrelieren mit vektoriellen seismischen Profilen: *Freiberger Forschung.*, C 161, 95–115, Leipzig, 1963. *GEOPHYS. ABSTR.*
18968. UYEDA, S., and HÔRAI, K. Terrestrial heat flow in Japan: *J. Geophys. Res.*, v. 69, no. 10, 2121–2141, Washington, May, 1964.
18969. VANEK, J., WANIEK, L., PROS, Z., and KLIMA, K. Three-dimensional seismic models with continuously variable velocity: *Nature*, v. 202, no. 4936, 995–996, London, June, 1964.
18970. VENING MEINESZ, F. A. Mantle-currents below the Mediterranean area: *Koninkl. Nederl. Akad. Wetensch. Proc.*, v. 67, no. 3, 215–219, Amsterdam, 1964.
18971. VESIAC STAFF, editor Proceedings of the VESIAC Conference on Variations of the Earth's Crust and Upper Mantle: *Univ. of Michigan, Instit. of Sci. and Technol., Acoustics and Seismics Lab.*, 4410-75-X, xi + 130 p., Ann Arbor, July, 1964.
18972. VESSO, J. J., SANDERS, B. R., and WINFIELD, F. H. Modifications to the Sprengnether Portable Seismographs (U): Suffield Tech. Note no. 42, DRB Proj. no. D89-16-01-05, Suffield Seismic Studies Part 3, 8 p., Suffield Experimental Station, Ralston, Dec., 1963.
18973. VORHIS, R. C. Earthquake-induced water-level fluctuations from a well in Dawson County Georgia: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1023–1033, Baltimore, Aug., 1964.
18974. VUGMAN, M. YA. A tuning-fork generator on transistors: (in Russian), *Razved. Promyslov. Geofiz.*, no. 48, 38–44, Moscow, 1963. *GEOPHYS. ABSTR.*
18975. VVEDENSKAYA, N. A., IODKO, V. K., KONDORSKAYA, N. V., LANDYREVA, N. S., MISHARINA, L. A., SEMENOV, P. G., and TABULEVICH, V. N. Bulletin of large earthquakes of the USSR during 1960: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 28(195), 61–76, Moscow, 1963.
18976. WADA, T., FURUZAWA, T., and ONO, H. Source-mechanism of the Chilean earthquake from spectra of long-period surface waves: (in Japanese with English abstr.), *Zisin, J. Seismol. Soc. Japan*, v. 16, no. 4, 181–187, Tokyo, Dec., 1963.
18977. WAI, K. T. Dynamics of Thin-walled Beams of Open Section: *California Inst. of Tech., Dynamics Lab.*, v+ 182 p., Pasadena, June, 1964.
18978. WALSH, J. Alaska; a thorough postmortem on earthquake urged on behalf of both science, reconstruction: *Science*, v. 144, no. 3618, 515–518, Washington, May, 1964.
18979. WALSH, J., and BRACE, W. F. A fracture criterion for brittle anisotropic rock: *J. Geophys. Res.*, v. 69, no. 16, 3449–3456, Washington, Aug., 1964.
18980. WANTLAND, D. Geophysical measurements of rock properties in situ: (with French and German abstr.), 9-1 — 9-44 in International Conference on State of Stress in the Earth's Crust, Santa Monica, Calif., June 1963, Preprint of papers, The Rand Corporation Memorandum RM-3583, Santa Monica, 1963. *GEOPHYS. ABSTR.*
18981. WEERTMAN, J. Continuum distribution of dislocations on faults with finite friction: *Seismol. Soc. Am. Bull.*, v. 54, no. 4, 1035–1058, Baltimore, Aug., 1964.
18982. WELANDER, P., and ODÉN, S. On an instrument for measurement of small horizontal press pressure gradients in the sea: *Deep-Sea Research*, v. 10, no. 4, 463–469, London, 1963. *GEOPHYS. ABSTR.*
18983. WILLIS, D. E. Short period spectral measurements of seismic waves in the northeastern U.S.A.: *Earthquake Notes*, v. 35, nos. 1-2, 1-13, Washington, Mar.-June, 1964. An abstract of this paper is reported as no. 17915 of this list.
18984. WITKIND, I. J. Events on the night of August 17, 1959—the human story: 1-4 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. *GEOPHYS. ABSTR.*
18985. WITKIND, I. J. Structural damage in the Hebgen Lake-West Yellowstone area: 5-11 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. *GEOPHYS. ABSTR.*
18986. WITKIND, I. J. Reactivated faults north of Hebgen Lake: 37–50 in The Hebgen Lake, Montana, Earthquake of August 17, 1959, *U.S. Geol. Survey Prof. Paper 435*, Washington, 1964. *GEOPHYS. ABSTR.*
18987. WÜSTNER, L. Seismische Ergebnisse bei der Erkundung von Auslaugungsscheinungen im Werragebiet: *Freiberger Forschung.*, C 161, 75–82, Leipzig, 1963. *GEOPHYS. ABSTR.*
18988. WYROBEK, S. M. Influence of dips in seismic refraction: (in Polish with English and Russian abstr.), *Przegl. Geol.*, v. 12, no. 1, 35–41, Warsaw, 1964. *GEOPHYS. ABSTR.*
18989. YAMAGUCHI, R. A review of the study of long period surface waves (before 1960 Chilean earthquake): (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 17, no. 1, 28–39, Tokyo, Mar., 1964.
18990. YANOVSKAYA, T. B., and ASBEL, I. J. The determination of velocities in the upper mantle from the observations on P-waves: *Geophys. J.*, v. 8, no. 3, 313–318, London, Feb., 1964.

18991. YOSHIKAWA, K., WADA, T., KAMO, K., and ONO, H. Some natures of volcanic earthquakes at Sakura-jima Volcano. Part 1: (in Japanese with English abstr.), *Volcanol. Soc. Japan Bull.*, ser. 2, v. 8, no. 1, 11–19, Tokyo, 1963. *GEOPHYS. ABSTR.*
18992. YURKEVICH, O. I. Notes on processing of data of Carpathian earthquakes 1955: (in Ukrainian), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpats'kykh Zemletrusiv*, no. 1 (4) for 1955, 6–13, Kiev, 1958. *GEOPHYS. ABSTR.*
18993. YURKEVICH, O. I. Epicentral zones of the Carpathian arc: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpats'kykh Zemletrusiv*, no. 1 (4) for 1955, 30–38, Kiev, 1958. *GEOPHYS. ABSTR.*
18994. YURKEVICH, O. I. Results of processing of Carpathian earthquakes 1956: (in Ukrainian with Russian abstr.), *Akad. Nauk Ukrayin. RSR Seysmich. Sek. Katalog Karpats'kykh Zemletrusiv*, no. 2 (5) for 1956, 7–16, Kiev, 1958. *GEOPHYS. ABSTR.*
18995. YUUN, Y. The detection of weak seismic signals in the presence of random noise: (in Chinese with Russian summary), *Acta Geophys. Sinica*, v. 13, no. 2, 148–161, Peking, June, 1964.
18996. ZÁTOPEK, A. Progress report on the Upper Mantle Project in Czechoslovakia 1961–1963: *Studia Geophys. et Geod.*, v. 8, no. 1, 104–105, Prague, 1964.
18997. ZEMTSOV, YE. YE. Reflecting power of the water-oil and water-gas interfaces of some oil fields of the Krasnodar region: (in Russian), *Razved. Promyslov. Geofiz.*, no. 46, 3–6, Moscow, 1962. *GEOPHYS. ABSTR.*
18998. ZHADIN, V. V. The measurement of the absorption of longitudinal and transverse waves in rock salt: (in Russian), *Akad. Nauk SSSR Sibirskoye Otdel., Geol. and Geofiz.*, no. 5, 130–133, Novosibirsk, 1963. *GEOPHYS. ABSTR.*



# Bibliography of Seismology

## SUBJECT INDEX FOR MAY - AUG., 1964

- B.1 BIBLIOGRAPHIES:** Nos.  
18794.
- B.2 BIOGRAPHIES:** Nos.  
18848.
- C.1 COMPUTATION**  
**C.1.2** Uses for electronic computing and data processing techniques: Nos.  
18724, 18831.
- C.1.3** Special computational techniques: Nos.  
18625, 18711, 18883.
- E.1 THE EARTH, ITS STRUCTURE AND COMPOSITION**  
**E.1.1** Surface layers: Nos.  
18647, 18768, 18813.
- E.1.2** The crust: Nos.  
18590, 18592, 18596, 18604, 18634, 18635, 18646, 18647, 18651, 18661, 18669, 18687, 18700, 18706, 18729, 18744, 18752, 18768, 18774, 18780, 18806, 18811, 18844, 18849, 18853, 18869, 18882, 18886, 18887, 18889, 18902, 18904, 18905, 18907, 18919, 18943, 18961, 18963, 18971.
- E.1.3** The mantle: Nos.  
18581, 18590, 18627, 18673, 18701, 18709, 18767, 18780, 18791, 18882, 18905, 18919, 18924, 18961, 18969, 18970, 18971, 18990.
- E.1.4** The core: Nos.  
18622, 18628, 18827, 18937.
- E.1.5** The earth as a whole: Nos.  
18580, 18786, 18821.
- E.1.6** Studies of other planets: Nos.  
18754, 18815.
- E.2 EARTHQUAKES**  
**E.2.2** Aftershocks: Nos.  
18691, 18816, 18897, 18936, 18966.
- E.2.3** Microtremors: Nos.  
18805.
- E.2.4** Cycles and periodicity: Nos.  
18741, 18927.
- E.2.5** Prediction: Nos.  
18829, 18836.
- E.2.6** Causes: Nos.  
18652, 18671, 18845, 18877.
- E.2.7** Epicentres, methods of determining: Nos.  
18690, 18691, 18758, 18762, 18771, 18772, 18773, 18792, 18816, 18899, 18958.
- E.2.8** Focal depth and deep focus earthquakes: Nos.  
18758, 18771, 18772, 18827, 18842, 18847, 18899, 18992, 18994.
- E.3 EARTHQUAKE EFFECTS**  
**E.3.1** On structures: Nos.  
18691, 18715, 18880, 18892, 18945, 18957.
- E.3.2** On soils, ground water, etc.: Nos.  
18699, 18880, 18892, 18916, 18935, 18938, 18973, 18985.
- E.3.3** Seiche: Nos.  
18654.
- E.3.4** Changes of level: Nos.  
18829, 18892, 18944.
- E.3.5** Miscellaneous effects: Nos.  
18643, 18691, 18699, 18702, 18771, 18772, 18773, 18782, 18892, 18984.
- E.3.6** Field studies of particular earthquakes: Nos.  
18945.
- E.3.7** Strong motion studies: Nos.  
18945, 18972.
- E.3.8** Intensity scales: Nos.  
18816, 18985.
- E.4 EARTHQUAKE MECHANISM**  
**E.4.1** Geodetic studies, strain measurements, strain release diagrams and maps: Nos.  
18897, 18952.
- E.4.3** Theoretical treatments: Nos.  
18635, 18652, 18674, 18710, 18783, 18807, 18842, 18948, 18981.
- E.4.4** Fault-plane solutions: Nos.  
18649, 18897.
- E.4.5** Use of surface waves: Nos.  
18595.
- E.4.6** Summary and discussion of results: Nos.  
18672, 18710, 18852, 18911, 18933.
- E.4.7** Other studies of mechanism: Nos.  
18790.
- E.6 EXPLOSIONS, STUDIES OF WAVES FROM:** Nos.  
18579, 18599, 18754, 18888.
- G.1 GEODESY AND GRAVITY, AS RELATED TO SEISMOLOGY**  
**G.1.1** Gradual or sudden deformation, changes of level, etc.: Nos.  
18586, 18626, 18678, 18722, 18790, 18817.
- G.1.2** Earth tides: Nos.  
18652.
- G.1.3** Gravity measurements related to structure or seismicity: Nos.  
18592, 18596, 18604, 18661, 18687, 18700, 18705, 18706, 18744, 18844, 18869, 18881, 18884, 18902, 18925, 18943.
- G.2 GEOGRAPHY, AS RELATED TO SEISMOLOGY:** Nos.  
18872.
- G.3 GEOLOGY, FIELD, AS RELATED TO SEISMOLOGY:** Nos.  
18583, 18587, 18751, 18760, 18787, 18925, 18964, 18986.
- G.4 GEOLOGY, THEORETICAL; TECTONOPHYSICS, THEORIES OF GEOLOGICAL PROCESSES, ETC.:** Nos.  
18580, 18610, 18611, 18622, 18656, 18671, 18678, 18685, 18686, 18709, 18775, 18780, 18860, 18881, 18947, 18968, 18970, 18993.

- H.1 HEAT FLOW, ETC., AS RELATED TO SEISMOLOGY: Nos.  
18712, 18775, 18968.
- I.1 INSTRUMENTS
- I.1.1 General: Nos.  
18607, 18682, 18721, 18728, 18778, 18825, 18837, 18972.
  - I.1.2 Station Seismology: Nos.  
18597, 18602, 18648, 18830, 18926, 18974.
  - I.1.4 Seismic prospecting: Nos.  
18676, 18680, 18736, 18743, 18764, 18781, 18953, 18982.
  - I.1.5 Special recording techniques: Nos.  
18607, 18620, 18648, 18733, 18740, 18753, 18769, 18862, 18973.
- M.1 MAGNITUDE, ENERGY, INTENSITY, EARTHQUAKE SCALES: Nos.  
18677, 18690, 18691, 18693, 18711, 18720, 18758, 18761, 18771, 18772, 18773, 18790, 18792, 18816, 18878, 18897, 18927, 18954, 18955, 18966.
- M.2 MECHANICS, AS RELATED TO SEISMOLOGY
- M.2.1 Behaviour of rocks under infinitesimal strains: Nos.  
18598, 18934.
  - M.2.3 Fracture of rocks: Nos.  
18979.
  - M.2.4 Measures in situ: Nos.  
18641, 18980.
- M.3 METEOROLOGY, AS RELATED TO SEISMOLOGY: Nos.  
18605.
- M.4 MICROSEISMS: Nos.  
18657, 18717, 18776, 18897, 18906.
- M.5 MINING AS RELATED TO SEISMOLOGY; ROCKBURSTS, ETC.  
18641.
- M.6 MODEL SEISMOLOGY: Nos.  
18630, 18683, 18684, 18695, 18698, 18819, 18910, 18914, 18956, 18957.
- M.7 MAGNETISM, AS RELATED TO SEISMOLOGY: Nos.  
18583, 18591, 18592, 18617, 18633, 18744, 18801, 18802, 18803, 18804, 18884.
- N.1 NUCLEAR EXPLOSIONS
- N.1.1 Conditions at the shot-coupling, etc.: Nos.  
18603.
  - N.1.2 Measurements near the shotpoint: Nos.  
18600, 18603.
  - N.1.5 International agreements, test bans, etc.: Nos.  
18967.
  - N.1.6 Methods to distinguish underground nuclear explosions from earthquakes: Nos.  
18608, 18723, 18807.
- O.1 OBITUARIES: Nos.  
18575.
- O.2 OCEANOGRAPHY, AS RELATED TO SEISMOLOGY
- O.2.2 Bottom topography: Nos.  
18658, 18667, 18670, 18881.
  - O.2.3 Turbidity currents: Nos.  
18667.
- O.2.4 Seismic work at sea: Nos.  
18577, 18590, 18646, 18658, 18670, 18709, 18713, 18720.
  - O.2.5 Tsunami: Nos.  
18703, 18727, 18808, 18809, 18866, 18867, 18940.
  - O.2.6 Continuous profiling devices—Sparker, Boomer, etc.: Nos.  
18613, 18638, 18662, 18670, 18784, 18912.
- O.3 OSCILLATIONS, FREE, OF THE EARTH: Nos.  
18582, 18764, 18801, 18908, 18909, 18941, 18953.
- P.2 PETROLOGY AND GEOCHEMISTRY AS RELATED TO SEISMOLOGY: Nos.  
18614, 18666, 18843, 18916, 18961.
- P.3 PHYSICS, EXPERIMENTAL, AS RELATED TO SEISMOLOGY: Nos.  
18585, 18635, 18726, 18856, 18949.
- P.4 PHYSICS, THEORETICAL, AS RELATED TO SEISMOLOGY: Nos.  
18584, 18586, 18589, 18609, 18636, 18637, 18668, 18680, 18708, 18726, 18727, 18747, 18775, 18778, 18783, 18800, 18808, 18826, 18838, 18861, 18862, 18888, 18890, 18891, 18914, 18940, 18945, 18993, 18995.
- P.5 PHYSICS OF THE EARTH: DENSITY, VISCOSITY, RIGIDITY, TEMPERATURE, ETC.: Nos.  
18580, 18609, 18622, 18681, 18775, 18786, 18804, 18821.
- P.7 PROGRESS REPORTS OF VARIOUS ORGANIZATIONS, LABORATORIES, PROJECTS, ETC.: Nos.  
18574, 18594, 18606, 18682, 18716, 18752, 18820, 18841, 18907, 18918, 18950, 18951, 18996.
- P.8 PROSPECTING, SEISMIC
- P.8.1 General papers, theory: Nos.  
18624, 18644, 18650, 18679, 18683, 18696, 18697, 18759, 18776, 18824, 18872, 18874, 18921, 18932, 18988.
  - P.8.2 General papers, practice: Nos.  
18590, 18616, 18663, 18665, 18689, 18696, 18697, 18707, 18759, 18770, 18793, 18795, 18858, 18864, 18898, 18915, 18928.
  - P.8.3 Description of specific work—petroleum: Nos.  
18612, 18675, 18725, 18735, 18799, 18895, 18997.
  - P.8.4 Description of specific work—mining: Nos.  
18618, 18640, 18757, 18913, 18964, 18987.
  - P.8.5 Description of specific work—engineering: Nos.  
18681, 18704.
  - P.8.6 Description of specific work—glaciology, sea ice, etc.: Nos.  
18591, 18642, 18687, 18840, 18868, 18885, 18939, 18951.
  - P.8.7 Description of specific work—geology: Nos.  
18578, 18583, 18604, 18632, 18688, 18705, 18731, 18735, 18737, 18745, 18751, 18766, 18774, 18796, 18797, 18799, 18811, 18812, 18813, 18835, 18864, 18865, 18875, 18876, 18881, 18884, 18889, 18929, 18930, 18960, 18962, 18963.
  - P.8.8 Acoustic logging: Nos.  
18598, 18615, 18620, 18692, 18822, 18998.
- R.1 REVIEW ARTICLES IN FIELDS RELATING TO SEISMOLOGY: Nos.  
18629, 18639, 18660, 18701, 18779, 18901, 18989.

**S.1 SEISMICITY**

**S.1.1** Historical studies: Nos.  
18738, 18739, 18879, 18893.

**S.1.2** Catalogues: Nos.  
18576, 18691, 18738, 18739, 18831, 18894, 18975.

**S.1.3** Maps: Nos.  
18576, 18690, 18691, 18762, 18792, 18879, 18899.

**S.2 SEISMICITY AND INDIVIDUAL EARTHQUAKES OF PARTICULAR AREAS**

**S.2.1** Africa: Nos.  
18658, 18659, 18690.

**S.2.4** Asia: Nos.  
18658, 18718, 18719, 18738, 18739, 18742, 18748, 18765, 18829, 18845, 18846, 18851, 18903, 18922, 18944, 18945, 18975.

**S.2.5** Europe: Nos.  
18576, 18649, 18653, 18669, 18671, 18694, 18740, 18761, 18762, 18771, 18772, 18897, 18899, 18992, 18994.

**S.2.6** North America: Nos.  
18605, 18643, 18677, 18678, 18691, 18699, 18702, 18722, 18763, 18782, 18792, 18816, 18817, 18831, 18863, 18879, 18880, 18892, 18893, 18916, 18935, 18936, 18938, 18978, 18984, 18985, 18986.

**S.2.7** South America: Nos.  
18619, 18867, 18976.

**S.2.8** Pacific and Australasia: Nos.  
18664, 18673, 18748, 18755, 18758, 18810, 18821, 18903.

**S.2.9** Atlantic: Nos.  
18653.

**S.3 SEISMIC PROBABILITY MAPS, SEISMIC REGIONALIZATION: Nos.**

18623, 18659, 18690, 18734, 18992.

**S.4 SEISMOLOGICAL ENGINEERING**

**S.4.1** Structure, effects and design, as related to earthquakes: Nos.  
18715, 18730, 18746, 18749, 18750, 18789, 18828, 18893, 18896, 18945, 18957.

**S.4.2** Materials, effects and uses, related to earthquakes: Nos.  
18977.

**S.4.3** Soils and foundations, effects and uses as related to earthquakes: Nos.  
18625, 18704, 18788, 18870.

**S.4.4** Blasts and vibrations: Nos.  
18651, 18723, 18774, 18896, 18963.

**S.5** STATISTICS APPLIED TO SEISMOLOGICAL PROBLEMS: Nos.  
18608, 18995.

**S.6** SURFACE FEATURES OF THE EARTH AS RELATED TO SEISMOLOGY GEOMORPHOLOGY: Nos.  
18588, 18742, 18761.

**T.2** TEXTBOOKS ON SEISMOLOGY AND RELATED FIELDS: Nos.  
18573, 18621, 18696, 18697, 18715, 18923.

**T.3** TIME-DISTANCE CURVES, TABLES, ETC.: Nos.  
18591, 18669, 18724, 18884.

**V.1** VOLCANOLOGY AS RELATED TO SEISMOLOGY: Nos.  
18579, 18771, 18772, 18773, 18798, 18801, 18804, 18810, 18814, 18946, 18947, 18991.

**W.1 BODY WAVES**

**W.1.1** Amplitudes and travel times—theoretical: Nos.  
18599, 18601, 18631, 18636, 18650, 18714, 18777, 18800, 18823, 18833, 18854, 18871, 18891, 18949, 18965, 18969, 18990.

**W.1.2** Amplitudes and travel times—observed: Nos.  
18578, 18590, 18591, 18593, 18616, 18619, 18634, 18640, 18645, 18663, 18665, 18689, 18713, 18723, 18737, 18754, 18756, 18758, 18767, 18791, 18793, 18850, 18854, 18857, 18858, 18859, 18869, 18884, 18886, 18912, 18921, 18924, 18925, 18928, 18931, 18937, 18943, 18959.

**W.1.4** Spectral analysis: Nos.  
18593, 18625, 18655, 18785, 18949, 18983.

**W.1.6** Relation of observations to rock type and condition:  
Nos.  
18913.

**W.2 WAVES, SEISMIC, SURFACE**

**W.2.1** Theoretical: Nos.  
18582, 18595, 18636, 18732, 18757, 18777, 18832, 18834, 18853, 18873, 18890, 18891, 18942, 18965.

**W.2.2** Observed: Nos.  
18596, 18657, 18729, 18818, 18839, 18855, 18873, 18901, 18904, 18905, 18920, 18989.

**W.2.3** Spectral analysis: Nos.  
18976.

**W.3 WAVES, SEISMIC, CHANNEL: Nos.**  
18628, 18757, 18900, 18924.



# Bibliography of Seismology

## AUTHOR INDEX FOR MAY - AUG., 1964

Adams, Wm. M.	18573	Chekunov, A. V.	18634, 18929, 18930
Advancement of Science	18574	Chinnery, M. A.	18635
Akademija Nauk SSSR Izvestiya Seriya Geofizicheskaya	18575	Chu, C.	18636, 18777
Akademija Nauk SSSR, Sovet Po Seismologii	18576	Chu, Yu.	18637
Akhundov, I. D.	18577	Chzhoa, T. (Chao Chien-San)	18856
Alekseev, A. S.	18578	Clay, C. S.	18638
Allègre, C.	18579	Clément, A.	18612
Anderson, D. L.	18580, 18581, 18582	Cloud, P. E., Jr.	18639
Andreeva, R. I.	18583	Collingbourne, R. H.	18574
Ang, D. D.	18584	Cook, J. C.	18640
Antsyferov, M. S.	18585	Cook, N. G. W.	18641
A. Orozco, J. L.	18663	Crary, A. P.	18642
Archambeau, C. B.	18582		
Arkhipov, R. G.	18586		
Asbel, I. J.	18990		
Atlasov, I. P.	18587		
Bagdasarova, A. M.	18673	DaCosta, J. A.	18643
Bagnall, P. S.	18588	Datypov, Zh.	18644
Banaugh, R. P.	18589	Davis, W. J.	18645
Barrett, D. L.	18590	Deacon, G. E. R.	18646
Båth, M.	18937	Denison, R. E.	18647
Baxter, E. F.	18574	Dibble, R. R.	18648
Behrendt, J. C.	18591, 18592	Dibner, V. D.	18587
Bekzhanov, G. R.	18812	DiFilippo, D.	18649
Belotelov, V. L.	18593	Dimakov, A. I.	18650
Belousov, V. V.	18594	Diment, W. H.	18936
Ben-Menahem, A.	18595	Dix, C. H.	18651, 18652
Bentley, C. R.	18596	Dobrovolskaya, T. I.	18656
Berckheimer, H.	18597	Dollar, A. T. J.	18653
Berezkin, V. M.	18598	Donn, W. L.	18654, 18655
Berg, J. W., Jr.	18599, 18600	Dorbach, L. P.	18656
Berry, M.	18590	Dorman, J.	18942
Bhattacharya, J.	18601	Doussaint, L.	18579
Biebler, S.	18869	Douze, E. J.	18657
Blanchard, J. E.	18590	Drake, C. L.	18658
Blum, P.-A.	18602	Dubourdieu, G.	18659
Boardman, C. R.	18603	Due Rojo, A., S. I.	18660
Bobukh, V. A.	18799	Durbin, W. P., Jr.	18661
Bodvarsson, G.	18604		
Bolt, B. A.	18605		
Bonanomi, J.	18606		
Bondarev, V. I.	18607		
Booker, A.	18608		
Borodulin, M. A.	18930		
Bostrom, R. C.	18609, 18610		
Bott, M. H. P.	18611		
Bouchon, R.	18612		
Bowin, C.	18613		
Boyarova, Ye. D.	18632		
Boyd, F. R.	18614		
Boyko, V. N.	18615, 18616		
Brace, W. F.	18979		
Brazee, R. J.	18816		
Breiner, S.	18617		
Breusse, J. J.	18618		
Bricknell, G. L.	18619		
Brodovoy, V. V.	18812		
Brunn, V.	18619		
Brykov, V. D.	18953		
Buben, J.	18620		
Bullen, K. E.	18621, 18622		
Buné, V. I.	18623		
Burkhardt, H.	18624		
Bustamante, J. I.	18625		
Bylinskaya, L. N.	18626		
Cal'nykov, E. V.	18753	Gal'perin, E. I.	18679
Caloi, P.	18627, 18628, 18629	García Rojas, A.	18680
Cassinis, R.	18630	Garkalenko, I. A.	18930
Červený, V.	18631	Gaskell, T. F.	18681
Chalikova, Ye. K.	18632	Gaulon, R.	18602
Chauveau, J.	18633	Geddes, A. E. M.	18574
		Geotechnical Corporation, The	18682
		Gil'bershteyn, P. G.	18683, 18684, 18698
		Gilluly, J.	18685
		Girdler, R. W.	18658, 18686
		Gladun, V. A.	18687
		Gol'dshmidt, V. I.	18812
		Gontoviy, I. Z.	18688, 18689

Gorshkov, G. P.	18690	Korf, M. G.	18749, 18750
Grantz, A.	18691	Koryagin, V. V.	18751
Gratsinsky, V. G.	18692	Kosminskaya, I. P.	18752, 18882
Grechishnikov, G. A.	18830	Kostyuk, O. P.	18753
Grigorova, E.	18693, 18694	Kovach, R. L.	18754
Gupta, I. N.	18695	Koyanagi, R. Y.	18755
Gurvich, I. I.	18684, 18696, 18697, 18698	Kozlov, A. V.	18756
Gyoda, N.	18798	Krauklis, P. V.	18578
Hadley, J. B.	18699	Kravtsov, A. F.	18721
Hales, A. L.	18700, 18701	Krey, T. C.	18757
Hamilton, W.	18817	Krivoy, H. L.	18758
Hanly, T. F.	18702	Krylov, N. A.	18799
Harkrider, D. G.	18595	Krylov, S. V.	18759, 18872
Hasegawa, H. S.	18910	Kumazawa, M.	18760
Hatori, T.	18703	Kuminova, M. V.	18812
Hawkins, L. V.	18704	Kurushin, R. A.	18761
Healy, J. H.	18705	Kuzin, I. P.	18673
Henderson, G. C.	18706	Kuz'min, Yu. I.	18812
Hernández Moedano, M.	18707	Kuznetsov, V. P.	18762
Herrera, I.	18708	Landen, D.	18763
Hess, H. H.	18709	Landyreva, N. S.	18975
Hinde, B. F.	18574	Langleben, M. P.	18868
Hiraga, S.	18798	Lapwood, E. R.	18574
Hirasawa, T.	18710	Laun, P. R.	18600
Hofmann, R. B.	18711, 18936	Lebedev, K. A.	18764
Hōrai, K.	18712, 18968	Lebedeva, T. M.	18765
Hori, M.	18805	Leenhardt, L.	18766
Houtz, R. E.	18713	Lehmann, I.	18767
Howell, B. F., Jr.	18714	Lehner, F.	18754
Hudson, J. A.	18747	LeMouél, J.	18726
Iacopi, R.	18715	Levavin, A. I.	18799
IGY Bulletin	18716	Liang, W. L.	18638
Ikegami, R.	18717	Lidiak, E. G.	18768
Iodko, V. K.	18975	Limón, A. C.	18769, 18770
Ioseliani, M. S.	18718, 18719, 18851, 18852	Lotze, F.	18771, 18772, 18773
Islas Leal, J.	18720	Ludwig, W. J.	18670
Ito, K.	18798	Lynn, R. D.	18774
Ivanov, E. V.	18721	Lyubimova, Ye. A.	18775
Jackson, W. H.	18722	Ma, E.	18636, 18776, 18777
Jacobs, L.	18574	Maaz, R.	18778
Jebe, E. H.	18723	MacDonald, G. J. F.	18779
Jeffreys, H.	18574, 18724	Magnitzky, V. A.	18775, 18780
Jenner, P.	18725	Maksimov, L. S.	18781
Jobert, G.	18602, 18726	Malinovskaya, L. N.	18741
Jobert, N.	18602	Marler, G. D.	18782
Kachadoorian, R.	18691	Marsh, S. P.	18786
Kajtiura, K.	18727	Marshall, P. D.	18740
Kal'yanov, V. A.	18728	Maruyama, T.	18783
Kalyuzhnaya, L. T.	18929	Matthews, R. K.	18784
Kaminuma, K.	18729	Matumoto, H.	18805
Kamo, K.	18991	McAllister, R. E.	18590
Kanai, K.	18730	McArthur, R. D.	18603
Kanareykin, B. A.	18731	McDowall, A. J.	18740
Kane, J.	18732	McGuinness, W. T.	18655
Kasparova, S. N.	18733	McIvor, I. K.	18785
Kats, A. Z.	18734	McQueen, R. G.	18786
Kats, R.	18735	Means, W. D.	18787
Kay, I. W.	18736	Mechler, P.	18579
Keen, M. J.	18590	Medvedev, S. V.	18788, 18789, 18790
Kefeli, A. S.	18737	Mei, S.	18791
Keimatsu, M.	18738, 18739	Merino y Coronado, J.	18792
Key, F. A.	18740	Merritt, D. W.	18793
Keylis-Borok, V. I.	18741	Meshcheryakov, Yu. A.	18626
Khilinsky, L. A.	18929, 18930	Meshkova, Z. S.	18845
Khromovskikh, V. S.	18742	Michigan University Institute of Science and Technology	18794
Khudzinsky, L. L.	18743	Mikhaylenko, I. G.	18795
King, E. R.	18744	Mikhelev, I. P.	18796
Kireychev, V. D.	18745	Mikhno, M. F.	18797
Kirnos, D. P.	18746	Miller, R.	18754
Kishinouye, F.	18748	Minakami, T.	18798
Kisslinger, C.	18695	Mirchink, M. F.	18799
Klima, K.	18969	Misharina, L. A.	18975
Knopoff, L.	18584, 18747	Mitra, A.	18800
Kogan, I. A.	18746	Mitronovas, W.	18608
Kolesnikov, Yu. A.	18746	Miyamoto, S.	18801, 18802, 18803, 18804
Kolmogorov, Yu. A.	18812	Miyamura, S.	18805
Komaki, S.	18748	Miyazaki, T.	18798
Kondorskaya, N. V.	18593, 18975	Moiseyenko, F. S.	18806
		Motshan, G. M.	18807
		Momoi, T.	18808, 18809
		Moore, J. G.	18810

Morelli, C.	-	18811	Rivosh, L. A.	-	18881
Morishita, T.	-	18945	Riznichenko, Yu. V.	-	18882
Morozov, M. D.	-	18812	Robinson, E. A.	-	18883
Moskalenko, V. N.	-	18813	Robinson, E. S.	-	18884, 18885
Motoya, Y.	-	18814	Rocard, Y.	-	18887, 18888
Mueller, R. F.	-	18815	Roller, J. C.	-	18889
Murphy, L. M.	-	18816	Romanovich, B. S.	-	18587
Myers, W. B.	-	18817	Rosenbaum, J. H.	-	18890, 18891
Nagamune, T.	-	18818	Rosenfeld, Å.	-	18892
Nakamura, Y.	-	18819	Ross, C. P.	-	18893
National Geophysical Research Institute Bulletin	-	18820	Rothé, J. P.	-	18894
Nature	-	18821	Roux, M.	-	18895
Nazarnyy, S. A.	-	18822, 18823	Rubinstein, M. F.	-	18896
Neale, R. N.	-	18824	Rustanovich, D. N.	-	18897
Nelson, W. H.	-	18678, 18893	Ryabov, A. V.	-	18898
Neri Espania, F.	-	18825, 18826	Ryabov, V. Z.	-	18578
Nguyen-hai	-	18827	Sagalova, Ye. A.	-	18899
Nielsen, N. N.	-	18828	Saha, B. P.	-	18900
Nikiforok, B. S.	-	18930	Saito, M.	-	18901, 18902, 18942
Nishimura, E.	-	18829	Sakamoto, T.	-	18903
Nogoshi, M.	-	18814	Sanders, B. R.	-	18972
Nomokonov, V. P.	-	18830	Santō, T.	-	18904, 18905, 18906, 18907
Nordquist, J. M.	-	18831	Satō, Y.	-	18908, 18909, 18965
Novotný, O.	-	18832	Savage, J. C.	-	18910
Nuttli, O.	-	18833	Scheidegger, A. E.	-	18672, 18911, 18952
Odén, S.	-	18982	Scherbakova, B. Ye.	-	18912
Ohta, Y.	-	18834	Schmidt, E.	-	18913
Oldale, R. N.	-	18835	Schneider, G.	-	18597
Oliver, J.	-	18836	Schön, J.	-	18914
Onasch, H.-J.	-	18837	Schwab, F.	-	18956
Onda, I.	-	18838	Schwaetzer, T.	-	18915
Ono, H.	-	18976, 18991	Scott, R. C.	-	18916
Ossing, H. A.	-	18839	Seismological Section, J.M.A., Investigation Section, Tokyo	D.M.O. and Miyakejima Weather Station	18917
Ostenso, N. A.	-	18596, 18840, 18841	Seismological Society of America, Bulletin	-	18918
Otsuka, M.	-	18842	Sellevoil, M. A.	-	18919
Oxburgh, E. R.	-	18843	Semenov, P. G.	-	18975
Pakiser, L. C.	-	18844	Sengbush, R. L.	-	18676
Palieva, K.	-	18694	Shechkov, B. N.	-	18920
Panasenko, G. D.	-	18845	Shenderov, V. Z.	-	18728
Papageorge, G. E.	-	18599	Sheptunov, V. P.	-	18650
Papalashvili, V. G.	-	18718, 18719, 18765, 18846, 18847, 18848 18849, 18850, 18851, 18852, 18853, 18854	Shevchenko, V. R.	-	18921
Papazachos, B. C.	-	18855	Shimshoni, M.	-	18724
Parkhomenko, E. I.	-	18856	Shin-Min, L.	-	18922
Parks, P. E., Jr.	-	18841	Shport, L. P.	-	18930
Pasechnik, P. P.	-	18857	Shtreis, N. A.	-	18923
Pataraya, E. I.	-	18853	Shurbet, D. H.	-	18924
Pavlekova, N. I.	-	18930	Sikharulidze, D. I.	-	18853, 18854
Pavlov, Yu. A.	-	18806	Simmons, G.	-	18925
Pěč, K.	-	18832	Skikevych, O. K.	-	18926
Peronaci, F.	-	18649	Skorik, L. A.	-	18927
Perrier, G.	-	18858	Smirnova, N. A.	-	18807
Peterschmitt, E.	-	18859	Sokolov, A. F.	-	18751, 18928
Petkevich, G. I.	-	18860	Sollrogub, V. B.	-	18929, 18930
Petkov, I.	-	18861, 18862	Soloviev, S. L.	-	18931
Pévé, T.	-	18863	Solov'eva, O. N.	-	18931
Pissarenko, V. F.	-	18807	Solukvadze, G. M.	-	18932
Plafker, T.	-	18691	Spence, J.	-	18732
Popescu, M.	-	18864, 18865	Stauder, W., S.J.	-	18933
Popov, G. I.	-	18866, 18867	Stephens, D. R.	-	18934
Potap'ev, S. V.	-	18872	Stermitz, F.	-	18935
Poujol, P.	-	18895	Stewart, S. W.	-	18936
Pounder, E. R.	-	18868	Stoneley, R.	-	18574
Press, F.	-	18705, 18869	Stroyev, P. A.	-	18687
Pros, Z.	-	18869	Subiza, G. P.	-	18937
Puchkov, S. V.	-	18870	Sutton, G. H.	-	18943
Pustovalova, G. M.	-	18634	Swenson, F. A.	-	18938
Puzyrev, N. N.	-	18871, 18872	Sytinsky, A. D.	-	18939
Rabb, D. D.	-	18603	Tabulevich, V. N.	-	18975
Ragimov, Sh. S.	-	18873	Takahasi, R.	-	18940
Ratnikova, L. I.	-	18874	Takeuchi, H.	-	18902, 18941, 18942
Rats-Khizgiya, M. I.	-	18874	Talwani, M.	-	18943
Redkolis, V. A.	-	18875	Tanaka, T.	-	18944, 18945
Reinhardt, H.-G.	-	18876	Tanaka, Y.	-	18946
Rémy, J.-M.	-	18579	Tarakanov, R. Z.	-	18673
Richards, T. Ll.	-	18877	Tatsch, J. H.	-	18947
Richter, C. F.	-	18878, 18879, 18880	Teisseyre, R.	-	18948
Rikhter, V. I.	-	18875	Ten, C. V.	-	18949
			Texas Instruments Incorporated	-	18950
			Thomson, R. B.	-	18951

## PUBLICATIONS OF THE DOMINION OBSERVATORY

Thrasher, J. E.	18952	Wada, T.	18976, 18991
Titov, N. D.	18953	Wai, K. T.	18977
Tocher, D.	18954, 18955	Walker, G. P. L.	18604
Tokmakov, V. A.	18781	Walsh, J.	18978, 18979
Toksöz, M. N.	18956	Waniek, L.	18969
Toriumi, I.	18957	Wantland, D.	18980
Treitel, S.	18883	Watson, R. J.	18676
Trembly, L. D.	18600	Weertman, J.	18981
Treskov, A. A.	18958	Welander, P.	18982
Treskova, Yu. A.	18872	Willis, D. E.	18723, 18983
Trigubov, A. V.	18959	Willmore, P. L.	18574
Tripol'nikov, V. P.	18939	Winfield, F. H.	18972
Tsei-Wen, T.	18960	Wisotsky, S.	18638
Tseng, J. S.	18961	Witkind, I. J.	18678, 18984, 18985, 18986
Tsimel'zon, I. O.	18962	Wollin, G.	18667
Tsujiura, M.	18805	Wüstner, L.	18987
Tucker, P. M.	18963	Wylie, R. W.	18711
Tuttle, C. R.	18835	Wyrobek, S. M.	18988
Uhlmann, M.	18964	Yakovlev, A. T.	18898
Usami, T.	18965	Yamaguchi, R.	18989
Ushakov, S. A.	18687	Yanovskaya, T. B.	18990
Utsu, T.	18966	Yanshin, A. L.	18923
Utzmann, R.	18967	Yegiazarov, B. Kh.	18587
Uyeda, S.	18968	Yoshikawa, K.	18991
Vakar, V. A.	18587	Yoshizawa, S.	18730
Vanek, J.	18969	Yurkevich, O. I.	18992, 18993, 18994
Vening Meinesz, F. A.	18970	Yurkova, L. A.	18733
Vereshchagin, L. F.	18586	Yuun, Y.	18995
VESIAC Staff	18971	Zátopek, A.	18996
Vesso, J. J.	18972	Zemtsov, Ye. Ye.	18997
Visintini, G. de	18859	Zhadin, V. V.	18998
Vol'vovsky, I. S.	18578	Zietz, I.	18744
Vorhis, R. C.	18973	Zimkin, A. B.	18587
Vugman, M. Ya.	18974		
Vvedenskaya, N. A.	18975		