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

Bulletin Signalétique.....	Bull. Signal.
Geophysical Abstracts.....	Geophys. Abstr.

15346. ADAMS, R. D. Thickness of the earth's crust beneath the Campbell plateau: *New Zealand J. Geol. Geophys.*, v. 5, no. 1, 74–85, Wellington, Feb., 1962.
15347. AGARWAL, R. G. Earthquake of May 15, 1909: *Alberta Soc. Pet. Geol. J.*, v. 10, no. 4, 198–202, Calgary, Apr., 1962.
15348. AGOCS, W. B. Seismic field procedure: *J. Mines, Metals, and Fuels*, v. 9, no. 7, 28–29, 43, Calcutta, 1961.
GEOPHYS. ABSTR.
15349. AKAD. NAUK SSSR Izv., SER. GEOFIZ.
Obituary—WEISS-KSENOFONTOVA, Z. G., (in Russian), no. 3, p. 447, Moscow, Mar., 1962. P. 297 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
Obituary—GODIN, YU. N., (in Russian), no. 7, 981–985, Moscow, July, 1962. 626–629 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
15350. AKI, K. Accuracy of the Rayleigh wave method for studying the earthquake mechanism: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 91–105, Tokyo, Mar., 1962.
15351. AKI, K. Study of earthquake waves by a seismometer array. Part 1. Aftershocks of the Kitamino earthquake of Aug. 19, 1961: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 371–389, Tokyo, June, 1962.
15352. AKI, K. Revision of some results obtained in the study of the source function of Rayleigh waves: *J. Geophys. Res.*, v. 67, no. 9, 3645–3647, Washington, Aug. 1962. Corrections to papers listed as 12262, 12263, and 13312 of this list.
- AKI, K., MATUMOTO, H., ANDO, S., MIYAMURA, S., and HORI, M. Observation of aftershocks of the Kita Mino earthquake, Aug. 19, 1961. Observation at Hachiman, Gifu Prefecture, Central Japan. See no. 15669 of this list.
- ALDRICH, L. T., MEYER, R. P., STEINHART, J. S., HOWELL, B. F., Jr., BONINI, W. E., and FAHLQUIST, D. A. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements. See no. 15660 of this list.
15353. ALEXANDER, S. A study of the normal modes of surface waves across the western United States: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, 3537–3538, Washington, Aug., 1962.
- ALGERMISSSEN, S. T., COSTAIN, J. K., and COOK, K. L. The status of PS converted waves in crustal studies. See no. 15445 of this list.
15354. ALLEN, C. R. Circum-Pacific faulting in the Philippines-Taiwan region: *J. Geophys. Res.*, v. 67, no. 12, 4795–4812, Washington, Nov., 1962.
- ALLEN, C. R., PRESS, F., and KOVACH, R. L. Geophysical investigations in the Colorado delta region. See no. 15596 of this list.
15355. ALLENBY, R. J. The importance of reflected refractions in seismic interpreting: *Geophysics*, suppl., v. 27, no. 6, pt. 2, 966–980, Tulsa, Dec., 1962.
15356. ALLINGHAM, J. W., and ZIEZT, I. Geophysical data on the Climax stock, Nevada test site, Nye County, Nevada: *Geophysics*, v. 27, no. 5, 599–610, Tulsa, Oct., 1962.
15357. ALSOP, L. E., SUTTON, G. H., and EWING, M. Free oscillations of the earth observed on pendulum seismographs: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3538, Washington, Aug., 1962.
15358. AMBRASEYS, N. N. Data for the investigation of the seismic sea-waves in the eastern Mediterranean: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 895–913, Berkeley, Oct., 1962.
15359. ANDERSON, D. L. The plastic layer of the earth's mantle: *Scientific American*, v. 207, no. 1, 52–59, New York, July, 1962.
15360. ANDERSON, D. L. Love wave dispersion in heterogeneous anisotropic media: *Geophysics*, v. 27, no. 4, 445–454, Tulsa, Aug., 1962.
15361. ANDERSON, D. L., and HARKRIDER, D. G. The effect of anisotropy on dispersion of long-period surface waves: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3539, Washington, Aug., 1962.
- ANDERSON, D. L., and KOVACH, R. L. Long-period Love waves in a heterogeneous, spherical earth. See no. 15597 of this list.
- ANDO, S., MIYAMURA, S., HORI, M., AKI, K., and MATUMOTO, H. Observation of aftershocks of the Kita Mino earthquake, Aug. 19, 1961. Observation at Hachiman, Gifu Prefecture, Central Japan. See no. 15669 of this list.
15362. ANTOINE, C. Une théorie controversée; l'expansion de la terre: *Sciences et Avenir*, no. 183, 302–307, Paris, May, 1962.
15363. ARAKAWA, H. A remark on the use of historical earthquake records: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, p. 37, Tokyo, July, 1962.
15364. ARASCHMID, A. Über die Bündelung von Geophonen in der Refraktionsseismik: *Zeitschr. Geophys.*, v. 28, no. 4, 185–208, Würzburg, 1962.
15365. ARCHITECTURAL INSTITUTE OF JAPAN General state of damage of building: (in Japanese with English abstr.), 151–164 in R. Takahashi, Editor, *The Chilean Tsunami of May 24, 1960*, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.

15366. ARKHANGEL'SKAYA, V. M. Session of the Seismology Council of the USSR Academy of Sciences on research in engineering seismology: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 394-396, Moscow, Mar., 1962. 264-265 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
- ASADA, T., DEN, N., TAKANO, K., and MATUZAWA, T. Tripartite observations of microseisms. *See no. 15651 of this list.*
- ASADA, T., RODRIGUEZ B., A., and STEINHART, J. S. The San Agustin fault system of southern Peru. *See no. 15748 of this list.*
- ASADA, T., STEINHART, J. S., MEYER, R. P., HOWELL, B. F., JR., FAHLQUIST, D. A., and BONINI, W. E. Maine seismic experiment; general crustal results. *See no. 15792 of this list.*
- ASADA, T., TUVE, M. A., and RODRIGUEZ B., A. A note on seismic wave attenuation in the Andes. *See no. 15747 of this list.*
15367. AYVAZOV, I. V. Correlation between intensity, magnitude, and focal depth for Caucasus earthquakes: (in Russian), *Akad. Nauk Gruzin. SSR Soobshch.*, v. 26, no. 2, 149-152, Tiflis, 1961. *GEOPHYS. ABSTR.*
15368. BACKUS, G. E. Long-wave elastic anisotropy produced by horizontal layering: *J. Geophys. Res.*, v. 67, no. 11, 4427-4440, Washington, Oct., 1962.
15369. BACKUS, G. E. The propagation of short elastic surface waves on a slowly rotating earth: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 823-846, Berkeley, Oct., 1962.
- BACKUS, G. E., MUNK, W., and HAUBRICH, R. Array studies of background noise. *See no. 15687 of this list.*
- BACKUS, M. M., and BURG, J. Three dimensional Wiener filtering with seismic arrays. *See no. 15418 of this list.*
- BACKUS, M. M., SCHELL, R., GILBERT, F., and LASTER, S. J. Observation of pulses on an interface. *See no. 15499 of this list.*
15370. BAGDASAROVA, A. M., and KUZ'MINA, N. V. Seismicity of Garm zone: (in Russian), 314-324 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15371. BAGDASAROVA, A. M., KUZ'MINA, N. V., and NENILINA, V. S. Seismicity of Shemakha zone: (in Russian), 250-258 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15372. BAKER, W. L. Some effects of source depths upon seismograms: 317-349 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15373. BALAKRISHNA, S. Ultrasonic velocities in some metamorphic rocks: *Geol. Soc. India J.*, v. 1, 136-143, Bangalore, 1959. *GEOPHYS. ABSTR.*
15374. BALAKRISHNA, S. Gravity-time curve and seismic disturbances: *Mahadevan Vol.*, Hyderabad, May, 1961.
15375. BALAKRISHNA, S. Recent nuclear explosions and earth tides: *J. Sci. and Industrial Res.*, v. 20A, no. 12, 670-673, New Delhi, 1961.
- BALAKRISHNA, S., and HAYAKAWA, M. Some theoretical considerations for the high ultrasonic velocities in Indian granites. *See no. 15530 of this list.*
15376. BALAKRISHNA, S., and SUBRAHMANYAM, Y. Variation of ultrasonic velocities in charnockites: *Curr. Sci.*, v. 31, 62-63, Bangalore, 1962.
15377. BALAVADZE, B. K., and SHENGELAYA, G. Sh. Basic features of the structure of the earth's crust in the Greater Caucasus based on gravimetric data: (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Scis., v. 136, nos. 1-6, 1328-1330, Moscow, Jan.-Feb. 1961. 177-179 in the English edition, *Am. Geol. Inst.*, Washington, Sept., 1962.
15378. BALL, R. M. The Madison earthquake and its effects: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 71-77, West Yellowstone, 1960. *GEOPHYS. ABSTR.*
15379. BALLAKH, I. Ya. Test of the possibility of using seismic surveying for direct prospecting of oil and gas pools: (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Scis., v. 137, no. 5, 1174-1176, Moscow, 1961. *GEOPHYS. ABSTR.*
15380. BANCROFT, A. M. Two maximum depth formulae for seismic refraction observations: *Nature*, v. 195, no. 4841, p. 590, London, August, 1962. An abstract appears in *Geophys. Prospecting*, v. 10, no. 4, p. 560, The Hague, Dec., 1962.
15381. BATES, C. C. Two years of Vela Uniform—a progress report: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3540, Washington, Aug., 1962.
15382. BÅTH, M. Die Conrad-Diskontinuität: *Freiberger Forschung*, v. 101, 5-34, Berlin, 1961.
15383. BÅTH, M. Channel waves in the earth's continental crust: *Scientia*, v. 56, ser. 6, 1-8, Bologna, Feb., Mar., Apr., 1962.
15384. BÅTH, M. Direction of approach of microseisms: *Geophys. J.*, v. 6, no. 4, 450-461, London, June, 1962.
15385. BÅTH, M., and LOPEZ ARROYO, A. Attenuation and dispersion of G waves: *J. Geophys. Res.*, v. 67, no. 5, 1933-1942, Washington, May, 1962.
- BEACH, F. K., and HALE, J. D. Interference attenuation in seismic recording. *See no. 15522 of this list.*
15386. BEHNKE, Cl., GIESE, P., PRODEHL, Cl., and DeVISINTINI, G. Seismic refraction investigations in the Dolomites for the exploration of the earth's crust in the eastern Alpine area 1961: (with Italian abstr.), *Boll. Geofisica*, teor. ed appl., v. 4, no. 14, 110-132, Trieste, June, 1962.
15387. BEHRENDT, J. C., LAUDON, T. S., and WOLD, R. J. Results of a geophysical traverse from Mount Murphy to the Hudson Mountains, Antarctica: *J. Geophys. Res.*, v. 67, no. 10, 3973-3980, Washington, Sept., 1962.
15388. BEKMAN, Yu. K., *Editor* *Spravochnik Geofizika*, V. I: (reference book on geophysics), 636 p., *Gosneftizdat*, Moscow, 1960. A review appears in *Econ. Geol.*, v. 57, no. 4, p. 639, June-July, 1962.
15389. BELIKOV, B. P. Elastic properties of rocks: (with Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 1, 75-85, Prague, 1962.
15390. BELOUSSOV, V. G., VOL'VOVSKY, B. S., VOL'VOVSKY, I. S., and RYABOI, V. Z. Experimental investigation of the recording of deep reflected waves: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 1034-1044, Moscow, Aug., 1962. 662-669 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15391. BELOUSSOV, V. V. Tectonic map of the earth: *Geol. Rundschau*, v. 50, 316-324, Stuttgart, 1960. *GEOPHYS. ABSTR.*
15392. BELOUSSOV, V. V. Basic Problems in Geotectonics: An English translation with additional material, edited by J. C. Maxwell xvi + 809 p., *McGraw-Hill Ltd.*, New York, 1962.
15393. BENIOFF, H. The characteristics of strain and pendulum seismograph combinations: 442-455 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.

15394. BENIOFF, H. Movements in major transcurrent faults: 103-134 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), Academic Press, New York and London, 1962.
15395. BEN-MENAHEM, A., and CISTERNAS, A. Stresses and strains in a thermal gravitating spherical earth: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3542, Washington, Aug. 1962.
15396. BEN-MENAHEM, A., and TOKSÖZ, M. N. Source mechanism from spectra of seismic waves—theory and experiment: 194-210 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15397. BENOIT, R., and NGUYEN-HAI L'installation de la station séismologique de Nhatrang et l'étude des caractéristiques de l'appareillage: (with English and French abstr.), *Inst. Oceanog. Nhatrand*, Contr. no. 32, 30 p., Saigon, 1958.
15398. BERCKHEMER, H. Die Ausdehnung der Bruchfläche im Erdbebenherd und ihr Einfluss auf das seismische Wellenspektrum: (with English summary), *Gerlands Beitr. Geophys.*, v. 71, no. 1, 5-26, Leipzig, 1962.
15399. BERNARD, P. Contribution à la détermination de l'origine des microséismes en Algérie: *Annales Geophys.*, v. 18, no. 1, 126-127, Paris, Jan.-Mar., 1962.
15400. BERNINGHAUSEN, WM. H. Tsunamis reported from the west coast of South America, 1562-1960: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 915-921, Berkeley, Oct., 1962.
15401. BHATTACHARYA, J. On the strong SH-motion in clay overlying hard elastic material due to explosions: *Geofis. Pura e Appl.*, v. 52, 1-6, Milan, May-Aug., 1962.
15402. BIRCH, W. B., and DIETZ, F. T. Seismic refraction investigations in selected areas of Narragansett Bay, Rhode Island: *J. Geophys. Res.*, v. 67, no. 7, 2813-2821, Washington, July, 1962.
15403. BIRKENHAUER, H. F., ENNIS, R., Jr., and VAN HAMM, J. Statistical evaluation of quarry blast parameters: *Earthquake Notes*, v. 33, nos. 1-2, 1-5, Washington, Mar.-June, 1962.
15404. BLAIK, M., and RANSONE, M. A. Multiple reflections in deep-sea seismic reflection profiles: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3543, Washington, Aug., 1962.
- BLUM, P. A., JOBERT, G., JOBERT, N., and CONNES, J. Observation des oscillations propres de la terre. See no. 15443 of this list.
15405. BOGERT, B. P. Techniques for digital processing of seismic data: 80-94 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15406. BOGERT, B. P. Correction of seismograms for the transfer function of the seismometer: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 781-792, Berkeley, Oct., 1962. An abstract of the same name appears as no. 14623 of this list.
15407. BOIS, P., CHAUVEAU, J., and HEMON, C. Étude analogique de la déformation d'un signal sismique: *Acad. Sci. Paris Comptes Rendus*, v. 253, no. 1, 165-167, Paris, 1961.
- BOLT, B., EWING, M., LANDISMAN, M., and MUELLER, S. Transient analysis of seismic core phases. See no. 15613 of this list.
- BONINI, W. E., ASADA, T., STEINHART, J. S., MEYER, R. P., HOWELL, B. F., Jr., and FAHLQUIST, D. A. Maine seismic experiment; general crustal results. See no. 15792 of this list.
- BONINI, W. E., FAHLQUIST, D. A., ALDRICH, L. T., MEYER, R. P., STEINHART, J. S., and HOWELL, B. F., Jr. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements. See no. 15660 of this list.
- BONINI, W. E., MEYER, R. P., and STEINHART, J. S., Montana, 1959. See no. 15659 of this list.
15408. BOSE, S. K. Wave propagation in marine sediments and water saturated soils: *Geofis. Pura e Appl.*, v. 52, 27-40, Milan, May-Aug., 1962.
15409. BOSE, S. K. On the large oscillations observed in Antarctic ice explorations: (with English and Polish summary), *Acta Geophys. Polonica*, v. 10, no. 2, 87-99, Warsaw, 1962.
15410. BOSE, S. K. On G-waves and long-period surface waves of severe earthquakes: (with German summary), *Gerlands Beitr. Geophys.*, v. 71, no. 1, 27-50, Leipzig, 1962.
- BOYKO, V. N., and KHARAZ, I. I. Certain results of application of grouped shots in the area of the outer zone of the Cis-Carpathian depression. See no. 15572 of this list.
15411. BRADNER, H. Pressure variations accompanying a plane wave propagated along the ocean bottom: *J. Geophys. Res.*, v. 67, no. 9, 3631-3633, Washington, Aug., 1962.
- BRISBIN, W. C., and HALL, D. H. A study of the Mohorovičić discontinuity near Flin Flon, Manitoba. See no. 15523 of this list.
- BROWN, C. F., Jr., HERRIN, E., and TAGGART, J. Machine computation of earthquake hypocenters. See no. 15536 of this list.
15412. BROWN, M. V. Seismic profile in St. Andrew Bay: *J. Geophys. Res.*, v. 67, no. 11, 4513-4515, Washington, Oct., 1962.
15413. BRUNE, J. N. Correction of initial phase measurements for the southeast Alaska earthquake of July 10, 1958, and for certain nuclear explosions: *J. Geophys. Res.*, v. 67, no. 9, 3643-3644, Washington, Aug., 1962. Corrections to papers listed as 12368, 12942, and 14061 of this list.
15414. BRUNE, J. N., and DORMAN, J. Seismic waves in the Canadian shield: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, 3545-3546, Washington, Aug., 1962.
15415. BRUNE, J. N., and POMEROY, P. Some effects of source mechanism on character of long period surface waves: 160-193 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15416. BULIN, N. K. Magnitude of the mean velocity ratio for longitudinal and transverse waves in the sedimentary deposits of Turkmenia: (in Russian), *Akad. Nauk SSSR Izv., ser. Geofiz.*, no. 6, 713-718, Moscow, June, 1962. 463-466 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15417. BUNCE, E. T., and FAHLQUIST, D. A. Geophysical investigation of the Puerto Rico trench and outer ridge: *J. Geophys. Res.*, v. 67, no. 10, 3955-3972, Washington, Sept., 1962. An abstract appears in *J. Geophys. Res.*, v. 67, no. 9, p. 3547, Washington, Aug., 1962.

15418. BURG, J., and BACKUS, M. M. Three dimensional Wiener filtering with seismic arrays: 24-51 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15419. BUTOVSKAYA, E. M., and KON'KOV, A. T. Seismicity of the Fergana valley and of Tashkent: (in Russian), 325-334 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izv. Akad. Nauk SSSR*, Moscow, 1961.
15420. BYUS, E. I., LEBEDEVA, T. M., LEVITSKAYA, A. YA., and TSKHAKAYA, A. D. Seismicity of Caucasus: (in Russian), 222-234 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15421. CAGNIARD, L., FLINN, E. A., and DIX, C. H. Reflection and Refraction of Progressive Seismic Waves: xx + 282 p., *McGraw-Hill Book Co. Inc.*, New York, 1962. This is a translation and revision by Flinn and Dix (with additional material by Cagniard) of the monograph originally listed as 5157 of this list. Reviews appear in *Geophys. Prospecting*, v. 10, no. 4, p. 550, The Hague, Dec., 1962, and by P. L. Goupillaud in *Geophysics*, v. 28, no. 1, p. 116, Tulsa, Feb., 1963.
15422. CANITEZ, N. Crustal structure of the earth in the northern Anatolia by gravimetric and seismic investigations: *Istanbul Teknik Üniverstitesi, Maden Fakültesi*, 86 p., Istanbul, 1962.
15423. CAPUTO, M. Free torsional modes of an oblate earth or planet: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3547, Washington, Aug., 1962.
15424. CARPENTER, E. W., SAVILL, R. A., and WRIGHT, J. K. The dependence of seismic signal amplitudes on the size of underground explosions: *Geophys. J.*, v. 6, no. 4, 426-440, London, June, 1962. An abstract appears in *Geophys. Prospecting*, v. 10, no. 4, p. 560, The Hague, Dec., 1962.
- CARPENTER, E. W., WRIGHT, J. K., and SAVILL, R. A. The derivation and solution of indicator equations for seismometer—galvanometer combinations including the effect of seismometer inductance. See no. 15764 of this list.
15425. CARR, R. Free oscillations of a gravitating solid sphere: *Tech. Rept. 32-164, Jet Propulsion Laboratory, California Instit. of Technol.*, Pasadena, 1961.
15426. CARR, R., and KOVACH, R. L. Toroidal oscillations of the moon: *Icarus*, v. 1, no. 1, 75-76, *Academic Press*, New York and London, May 1962.
15427. CASSINIS, R. Application of seismic methods to geothermal energy exploration: (abstr. only), *Quad. Geofis. Appl.*, v. 21, 28-37, Milano, 1960.
15428. CENTRAL WATER AND POWER RESEARCH STATION POONA Earth tremors at Mangalam damsite, Jan.-Mar., 1960: *India Ministry of Irrigation and Power, Central Water and Power Res. Sta.*, Ann. Res. Mem., 221-223, Poona, 1961. GEOPHYS. ABSTR.
15429. CENTRAL WATER AND POWER RESEARCH STATION POONA Mettur Tunnel scheme. I. Seismic refraction on bedrock: *India Ministry of Irrigation and Power Central Water and Power Res. Sta.*, Ann. Res. Mem., 224-225, Poona, 1961. GEOPHYS. ABSTR.
15430. CENTRAL WATER AND POWER RESEARCH STATION POONA Geophysical investigations: *India Ministry of Irrigation and Power Central Water and Power Res. Sta.*, Ann. Res. Mem. 1960, 230-248, Poona, 1961. GEOPHYS. ABSTR.
15431. ČERVENÝ, V. On the position of the maximum of the amplitude curves of reflected waves: (Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 3, 215-234, Prague, 1962.
15432. CHADWICK, P. Mountain-building hypotheses: 195-234 in S. K. Runcorn, Editor, *Continental Drift*, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
15433. CHAMALAUN, T., and ROBERTS, P. H. The theory of convection in spherical shells and its application to the problem of thermal convection in the earth's mantle: 177-194 in S. K. Runcorn, Editor, *Continental Drift*, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
15434. CHAUVEAU, J. Étude analogique de la propagation d'un signal sismique: (with English, German, and Russian abstr.), *Annales Géophys.*, v. 18, no. 1, 92-109, Paris, Jan.-Mar., 1962.
- CHAUVEAU, J., HEMON, C., and BOIS, P. Étude analogique de la déformation d'un signal sismique. See no. 15407 of this list. GEOPHYS. ABSTR.
- CHECHEL', N. I., and MALINOVSKAYA, L. N. Distortion of transitional oscillations in galvanometric recording. See no. 15642 of this list.
15435. CHEREAU, J.-Y. Conditions d'emploi de la gravimetrie en exploration pétrolière: *Geophys. Prospecting*, v. 10, no. 3, 271-289, The Hague, Sept., 1962.
15436. CHOUDHURY, M. A. Sur les ondes longitudinales de séismes artificiels en Europe occidentale: *Acad. Sci. Paris Comptes Rendus*, v. 253, no. 14, 1473-1475, Paris, 1961.
- CHUPROV, K. S., and EMELIN, V. I. The ultrasonic method to determine the dynamic elastic parameters of rocks under field conditions. See no. 15474 of this list.
- CISTERNAS, A., and NEN-MENAHEM, A. Stresses and strains in a thermal gravitating spherical earth. See no. 15395 of this list.
15437. CISTERNAS, A., and NORDQUIST, J. Programs for determining depth of source using electronic digital computers: 312-316 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15438. CLAY, C. S., and LIANG, W. L. Continuous seismic profiling with matched filter detector: *Geophysics*, v. 27, no. 6, pt. 1, 786-795, Tulsa, Dec., 1962.
15439. CLEARY, J. R., and DOYLE, H. Application of a seismograph network and electronic computer in near earthquake studies: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 673-682, Berkeley, July, 1962.
15440. CLEARY, J. R., and PEASLEE, D. C. Amplitude perturbations in Rayleigh waves: *J. Geophys. Res.*, v. 67, no. 12, 4741-4749, Washington, Nov., 1962.
15441. CLOSS, H., and MORELLI, C. Seismic experiments in the Dolomites (Lago Lagorai) to investigate the earth's crust in the eastern Alpine area: (with Italian summary), *Boll. Geofisica, teor. ed appl.*, v. 4, no. 14, 99-109, Trieste, June, 1962.
15442. CLOUGH, R. W. Earthquake analysis by response spectrum superposition: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 647-660, Berkeley, July, 1962.

15443. CONNES, J., BLUM, P. A., JOBERT, G., and JOBERT, N. Observation des oscillations propres de la terre: *Annales Géophys.*, v. 18, no. 3, 260-268, Paris, July-Sept., 1962.
15444. COOK, K. L. The problem of the mantle-crust mix; lateral inhomogeneity in the uppermost part of the earth's mantle: 295-360 in H. E. Landsberg and J. Van Mieghem, *Editors*, *Advances in Geophysics*, (reported as no. 15614 of this list), Academic Press, New York and London, 1962.
15445. COOK, K. L., ALGERMISSSEN, S. T., and COSTAIN, J. K. The status of PS converted waves in crustal studies: *J. Geophys. Res.*, v. 67, no. 12, 4769-4778, Washington, Nov., 1962.
15446. COOPER, M. J. Multiple regression analysis of vibrations from small blasts: *Earthquake Notes*, v. 33, nos. 1-2, 6-11, Washington, Mar.-June, 1962.
- COSTAIN, J. K., COOK, K. L., and ALGERMISSSEN, S. T. The status of PS converted waves in crustal studies. See no. 15445 of this list.
- DACHEV, K., and DOBREV, T. B. Secondary pressure bubble pulses as an interfering factor in seismic prospecting by the correlation method of refracted waves (KMPV). See no. 15457 of this list. *GEOPHYS. ABSTR.*
15447. DAS GUPTA, S. C. On the phenomenon of singing in seismic experimental observation in the coastal water: (with German summary), *Gelands Beitr. Geophys.*, v. 71, no. 3, 137-146, Leipzig, 1962.
15448. DEAN, W. C., and FLINN, E. A. Surface distribution of seismic noise and signals and their expected behavior at depth: 52-79 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15449. DEBREMAECKER, J. CL., DONOHO, P., and MICHEL, J. G. A direct digitizing seismograph: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 661-672, Berkeley, July, 1962.
15450. DEBREMAECKER, J. CL., RUSK, S. K., SCHUTZ, T. C., and SITTON, G. A. The Rice digital seismograph; design and first results: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3553, Washington, Aug., 1962.
- DEHLINGER, P., and YUNGUL, S. H. Preliminary free-air anomaly map of the Gulf of Mexico from surface-ship measurements and its tectonic implications. See no. 15882 of this list.
- DEN, N., TAKANO, K., MATUZAWA, T., and ASADA, T. Tripartite observations of microseisms. See no. 15651 of this list.
15451. DERESIEWICZ, H. The effect of boundaries on wave propagation in a liquid-filled porous solid. IV. Surface waves in a half-space: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 627-638, Berkeley, July, 1962.
15452. DERESIEWICZ, H. A note on Love waves in a homogeneous crust overlying an inhomogeneous substratum: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 639-645, Berkeley, July, 1962.
15453. DERESIEWICZ, H., and RICE, J. T. The effect of boundaries on wave propagation in a liquid-filled porous solid. III. Reflection of plane waves at a free plane boundary (general case): *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 595-625, Berkeley, July, 1962.
- DEVISINTINI, G., BEHNKE, CL., GIESE, P., and PRODEHL, CL. Seismic refraction investigations in the Dolomites for the exploration of the earth's crust in the eastern Alpine area 1961. See no. 15386 of this list.
- DIETZ, F. T., and BIRCH, W. B. Seismic refraction investigations in selected areas of Narragansett Bay, Rhode Island. See no. 15402 of this list.
15454. DIETZ, R. S. Ocean-basin evolution by sea-floor spreading: 289-298 in S. K. Runcorn, *Editor*, *Continental Drift*, (reported as no. 15751 of this list), Academic Press, New York and London, 1962.
- DIX, C. H., CAGNIARD, L., and FLINN, E. A. Reflection and Refraction of Progressive Seismic Waves. See no. 15421 of this list.
15455. DJAKARTA METEOROLOGICAL AND GEOPHYSICAL INSTITUTE. Earthquakes in Indonesia, 1957-1958: *Meteorol. Geophys. Inst. Djakarta*, ser. A, no. 47, 35 p., Djakarta, 1961. Earthquakes in Indonesia, 1959: *Meteorol. Geophys. Inst. Djakarta*, ser. A, no. 48, 13 p., Djakarta, 1962.
15456. DOBREV, T. B. Application of the method of controlled directional reception (RNP) of seismic waves in north-eastern Bulgaria: (in Bulgarian), *Minno-Geol. Inst. Godishnik*, v. 6, pts. 1 and 2, 333-361, Sofia, 1959-60. *GEOPHYS. ABSTR.*
15457. DOBREV, T. B., and DACHEV, K. Secondary pressure bubble pulses as an interfering factor in seismic prospecting by the correlation method of refracted waves (KMPV): (in Bulgarian), *Minno-Geol. Inst. Godishnik*, v. 6, pts. 1 and 2, 319-331, Sofia, 1959-60. *GEOPHYS. ABSTR.*
15458. DOHR, G. Untersuchungen über den Bau der Erdkruste in Westdeutschland durch Reflexionsseismische Messungen: (with English summary), *Boll. Geofisica, teor. ed appl.*, v. 4, no. 14, 142-154, Trieste, June, 1962.
15459. DOMBAI, T., *Editor* Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium, on the 8-12th September, 1959: *Geofiz. Közlem.*, v. 10, nos. 1-4, 168 p., Budapest, 1962.
15460. DONN, W. L., and EWING, M. Atmospheric waves from nuclear explosions—Part II. The Soviet test of 30 October 1961: *J. Atmos. Sci.*, v. 19, no. 3, 264-273, New York, May, 1962.
- DONOHO, P., MICHEL, J. G., and DEBREMAECKER, J. CL. A direct digitizing seismograph. See no. 15449 of this list.
- DORMAN, J., and BRUNE, J. N. Seismic waves in the Canadian shield. See no. 15414 of this list.
15461. DORMAN, J., and EWING, M. Numerical inversion of seismic surface wave dispersion data and crust-mantle structure in the New York-Pennsylvania area: *J. Geophys. Res.*, v. 67, no. 13, 5227-5241, Washington, Dec., 1962. An abstract appears in *J. Geophys. Res.*, v. 67, no. 9, p. 3554, Washington, Aug., 1962.
- DOYLE, H., and CLEARY, J. Application of a seismograph network and electronic computer in near earthquake studies. See no. 15439 of this list.
15462. DOYLE, H. A., EVERINGHAM, I. B., and HOGAN, T. K. Seismic recordings of large explosions in south-eastern Australia: *Australian J. Phys.*, v. 12, no. 3, 222-230, Melbourne, Sept., 1959.
- DRAKE, C. L., LUDWIG, W. J., EWING, M., and EWING, J. Discussion of a paper by C. H. Savit, D. M. Blue, and J. G. Smith, 'Exploration seismic techniques applied to oceanic crustal studies'. See no. 15633 of this list.
15463. DUDA, S. J. Phänomenologische Untersuchung einer Nachbebenserie aus dem Gebiet der Aléuten-Inseln: (with English summary), *Zeitschr. Geophys.*, v. 27, nos. 4, 5, 207-214, Würzburg, 1961.
15464. DUE ROJO, A., S.I. Las capas profundas de la corteza terrestre: (with English summary), *Notas y Comuns. Inst. Geol. y Minero de Espana*, no. 64, 215-235, Madrid, 1961.
15465. DUE ROJO, A., S.I. Notas sismicas de 1960: *Rev. Geofis.*, no. 139, 345-351, Madrid, Oct.-Dec., 1961.

PUBLICATIONS OF THE DOMINION OBSERVATORY

15466. DUKE, C. M., and LEEDS, D. J. Site characteristics of southern California strong-motion earthquake stations: *Dept. of Eng., Univ. of California*, Rept. no. 62-55, iv + 32 p., Los Angeles, Nov., 1962.
15467. DURY, G. H. Results of seismic exploration of meandering valleys: *Am. J. Sci.*, v. 260, no. 9, 691-706, New Haven, Nov., 1962.
15468. DUTTA, S. On the propagation of Rayleigh waves in a transversely isotropic medium resting on a rigid or yielding base: *Geofis. Pura e Appl.*, v. 52, 20-26, Milan, May-Aug., 1962.
15469. DUVALL, G. E. Concepts of shock wave propagation: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 869-893, Berkeley, Oct., 1962.
- DZHIBLADZE, E. A., and SAVARENsky, YE. F. On the energy of earthquakes of the Great Caucasus. *See no. 15762 of this list.*
- EDGERTON, H. E., RAYMOND, S. O., HAYWARD, G., and HERSEY, J. B. Pingers and thumpers advance deep-sea exploration. *See no. 15537 of this list.*
- GEOPHYS. ABSTR.
15470. EGOROV, N. N., KALININ, V. A., and TRUBITSYN, V. P. Absorption of the Rayleigh waves in a layer on half-space: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 57-66, Moscow, 1962.
15471. EGYED, L. On the mechanism of mountain building and folding: *Geol. Rundschau*, v. 50, 225-234, Stuttgart, 1960.
- GEOPHYS. ABSTR.
15472. EGYED, L. On the origin of the Red Sea: (in Hungarian with English abstr.), 69-75 in T. Dombai, *Editor*, Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium, on the 8-12 September, 1959, (reported as no. 15459 of this list), *Geofiz. Közlem.*, v. 10, nos. 1-4, Budapest, 1962.
15473. ELECTRONICS
Will it be green cheese? v. 35, no. 46, p. 46, New York, Nov., 1962.
15474. EMELIN, V. I., and CHUPROV, K. S. The ultrasonic method to determine the dynamic elastic parameters of rocks under field conditions: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 472-477, Moscow, Apr., 1962. 312-315 in the English edition, *Am. Geophys. Union*, Washington, July, 1962.
- EMURA, K., ITO, M., ISHIDA, H., KATO, Y., SUZUKI, Z., NAKAMURA, K., and TAKAGI, A. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
- ENGEL, L., and EWING, M. Seismic shooting at sea. *See no. 15481 of this list.*
15475. ENGLAND, C. M. The "Shot Popping" method and application of directional scanning to interpretation: *Geophysics*, suppl., v. 27, no. 6, pt. 2, 1016-1027, Tulsa, Dec., 1962.
- ENNIS, R., JR., VAN HAMM, J., and BIRKENHAUER, H. F. Statistical evaluation of quarry blast parameters. *See no. 15403 of this list.*
15476. ERES'KO, S. I. Earthquake shocks with epicenters at Sochi: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 7, p. 946, Moscow, July, 1962. p. 603 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
- ERSHOV, I. A., and TSEITLIN, YA. I. Reduction of the seismic effect of delay-action blastings. *See no. 15829 of this list.*
15477. ESPINOSA, A. F., SUTTON, G. H., and MILLER, H. J., S. J. A transient technique for seismograph calibration: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 767-779, Berkeley, Oct., 1962. An abstract of similar title appears as no. 14733 of this list. An erratum appears in *Seismol. Soc. Am. Bull.*, v. 53, no. 1, p. 210, Berkeley, Jan., 1963.
- EVERINGHAM, I. B., HOGAN, T. K., and DOYLE, H. A. Seismic recordings of large explosions in south-eastern Australia. *See no. 15462 of this list.*
- EVISON, F. F., and THOMSON, A. A. Thickness of the earth's crust in New Zealand. *See no. 15823 of this list.*
15478. EVSEEV, S. V., LEVITSKAYA, A. YA., and SAGALOVA, E. A. Seismicity of the Carpathian zone. (in Russian), 211-216 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- EWING, J., DRAKE, C. L., LUDWIG, W. J., and EWING, M. Discussion of a paper by C. H. Savit, D. M. Blue, and J. G. Smith, 'Exploration seismic techniques applied to oceanic crustal studies'. *See no. 15633 of this list.*
15479. EWING, J., and EWING, M. Reflection profiling in and around the Puerto Rico trench: *J. Geophys. Res.*, v. 67, no. 12, 4729-4739, Washington, Nov., 1962.
15480. EWING, J., WORZEL, J. L., and EWING, M. Sediments and oceanic structural history of the Gulf of Mexico: *J. Geophys. Res.*, v. 67, no. 6, 2509-2527, Washington, June, 1962.
- EWING, M., ALSOP, L. E., and SUTTON, G. H. Free oscillations of the earth observed on pendulum seismographs. *See no. 15357 of this list.*
- EWING, M., and DONN, W. L. Atmospheric waves from nuclear explosions—Part II. The Soviet test of 30 October 1961. *See no. 15460 of this list.*
- EWING, M., and DORMAN, J. Numerical inversion of seismic surface wave dispersion data and crust-mantle structure in the New York-Pennsylvania area. *See no. 15461 of this list.*
15481. EWING, M., and ENGEL, L. Seismic shooting at sea: *Sci. American*, v. 206, no. 5, 116-126, New York, May, 1962.
- EWING, M., and EWING, J. Reflection profiling in and around the Puerto Rico trench. *See no. 15479 of this list.*
- EWING, M., EWING, J., DRAKE, C. L., and LUDWIG, W. J. Discussion of a paper by C. H. Savit, D. M. Blue, and J. G. Smith, 'Exploration seismic techniques applied to oceanic crustal studies'. *See no. 15633 of this list.*
- EWING, M., EWING, J., and WORZEL, J. L. Sediments and oceanic structural history of the Gulf of Mexico. *See no. 15480 of this list.*
15482. EWING, M., and LANDISMAN, M. Shape and structure of ocean basins: 3-38 in *Oceanography*, *Am. Assoc. Adv. Sci. Pub.*, no. 67, Washington, 1961. GEOPHYS. ABSTR.
- EWING, M., LANDISMAN, M., MUELLER, S., and BOLT, B. Transient analysis of seismic core phases. *See no. 15613 of this list.*
- FAHLQUIST, D. A., ALDRICH, L. T., MEYER, R. P., STEINHART, J. S., HOWELL, V. F., Jr., and BONINI, W. E. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements. *See no. 15660 of this list.*
- FAHLQUIST, D. A., BONINI, W. E., ASADA, T., STEINHART, J. S., MEYER, R. P., and HOWELL, B. F., Jr. Maine seismic experiment; general crustal results. *See no. 15792 of this list.*
- FAHLQUIST, D. A., and BUNCE, E. T. Geophysical investigation of the Puerto Rico trench and outer ridge. *See no. 15417 of this list.*
15483. FAIL, J. P., GRAU, G., and LAVERGNE, M. Couplage des seismographes avec le sol: *Geophys. Prospecting*, v. 10, no. 2, 128-147, The Hague, June, 1962.
- FAIRBAIRN, H. W., PINSON, W. H., HURLEY, P. M., HUGHES, H., and FAURE, G. Radiogenic strontium-87 model of continent formation. *See no. 15547 of this list.*

- FATT, I., and KING, M. S. Ultrasonic shear-wave velocities in rocks subjected to simulated overburden pressure. *See no. 15577 of this list.*
- FAURE, G., FAIRBAIRN, H. W., PINSON, W. H., HURLEY, P. M., and HUGHES, H. Radiogenic strontium-87 model of continent formation. *See no. 15547 of this list.*
15484. FERRAES, S. G. Note on the determination of the earthquake mechanism by S waves: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 683-688, Berkeley, July, 1962.
15485. FISCHER, W. A. Yellowstone's living geology—highlights of Yellowstone geology with an interpretation of the 1959 earthquakes and their effects in Yellowstone National Park: *Yellowstone Nature Notes*, Spec. Issue, v. 33, 62 p., Yellowstone Park, 1960. *GEOPHYS. ABSTR.*
- FLINN, E. A., and DEAN, W. C. Surface distribution of seismic noise and signals and their expected behavior at depth. *See no. 15448 of this list.*
- FLINN, E. A., DIX, C. H., and CAGNIARD, L. Reflection and Refraction of Progressive Seismic Waves. *See no. 15421 of this list.*
15486. FOGEL, A. A., and GORBUNOVA, I. V. Seismicity of the northern Tyan-Shan: (in Russian), 335-348 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15487. FREMD, V. M. A strong-motion piezoelectric seismic detector: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 630-638, Moscow, May, 1962. 410-414 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
- FRICK, G., TUVE, M. A., RODRIGUEZ B., A., and SALGUEIRO P., D. R. Local earthquake special network in the Andes. *See no. 15833 of this list.*
- FROLOVA, A. V., GAL'PERIN, YE. I., KRASIL'SHCHIKOVA, G. A., and MIRONOVA, V. I. Method and techniques of using stereographic projections for solving spatial problems in geometrical seismics. *See no. 15492 of this list.*
15488. FRIEDEMANN, H. Erschütterungsmesser, insbesondere Seismograph: *Zeitschr. Geophys.*, v. 28, no. 3, 155-156, Würzburg, 1962.
15489. FUCHS, K., and KAPPELMAYER, O. Report on reflection measurements in the Dolomites, September 1961: (with Italian summary), *Boll. Geofisica, teor. ed appl.*, v. 4, no. 14, 133-141, Trieste, June, 1962.
15490. FURUMOTO, A. S. The use of ScS-wave data in focal mechanism determinations: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 551-572, Berkeley, July, 1962.
15491. FUTTERMAN, W. I. Dispersive body waves: *J. Geophys. Res.*, v. 67, no. 13, 5279-5291, Washington, Dec., 1962.
15492. GAL'PERIN, YE. I., KRASIL'SHCHIKOVA, G. A., MIRONOVA, V. I., and FROLOVA, A. V. Method and techniques of using stereographic projections for solving spatial problems in geometrical seismics: 44-74 in N. Rast, *Editor*, Applied Geophysics, U.S.S.R., (reported as no. 15739 of this list), *Pergamon Press*, New York, 1962.
- GARDNER, G. H. F., GREGORY, A. R., and WYLLIE, M. R. J. Studies of elastic wave attenuation in porous media. *See no. 15875 of this list.*
15493. GASKELL, T. F. Techniques of geophysical exploration: *British J. Appl. Phys.*, v. 13, no. 11, 536-540, London, Nov., 1962.
15494. GASKELL, T. F. Comparisons of Pacific and Atlantic Ocean floors in relation to ideas of continental displacement: 299-307 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
15495. GAULON, R. Vitesse de groupe et vitesse de phase des ondes de Love entre 160 et 315 secondes de période: *Annales Géophys.*, v. 18, no. 3, 298-299, Paris, July-Sept., 1962.
15496. GEOTECHNICAL CORPORATION, THE "HAYMAKER": Long range seismic measurements, Proj. 8.4, June 27, 1962, prepared for AFTAC, HQ, USAF, Washington, D.C., ARPA Proj. VELA-UNIFORM, Garland, Oct. 7, 1962.
15497. GEOTIMES New seismic interpretations possible with computer: v. 7, no. 1, p. 41, Washington, July-Aug., 1962. Columbia installs third seismograph station: v. 7, no. 2, p. 33, Washington, Sept., 1962. Seismograph installation: v. 57, no. 3, p. 43, Washington, Oct., 1962. Puerto Rico is site of Mohole serpentinite test: v. 57, no. 4, p. 28, Washington, Nov.-Dec., 1962.
15498. GERSHANIK, S. Efecto de una acción sinusoidal transitoria en edificios deformables por el esfuerzo de corte: (with English abstr.), *Primeras Jornadas Argentinas de Ingeniería Antisísmica*, v. 22, 17 p., San Juan, Apr., 1962.
- GIESE, P., PRODEHL, CL., DEVISINTINI, G., and BEHNKE, CL. Seismic refraction investigations in the Dolomites for the exploration of the earth's crust in the eastern Alpine area 1961. *See no. 15386 of this list.*
15499. GILBERT, F., LASTER, S. J., BACKUS, M. M., and SCHELL, R. Observation of pulses on an interface: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 847-868, Berkeley, Oct., 1962. An abstract of the same name appears on p. 3561 of *J. Geophys. Res.*, v. 67, no. 9, Washington, Aug., 1962.
- GILMAN, R., PRESS, F., and PHINNEY, R. Progress report on a short-period rotational seismometer. *See no. 15727 of this list.*
15500. GILMOUR, A. E. Tsunami warning charts: *New Zealand J. Geol. and Geophys.*, v. 4, no. 2, 132-135, Wellington, 1961. *GEOPHYS. ABSTR.*
15501. GORBATOVA, V. P. Intensities of refracted and reflected longitudinal waves at angles of incidence below critical: 11-43 in N. Rast, *Editor*, Applied Geophysics, U.S.S.R., (reported as no. 15739 of this list), *Pergamon Press*, New York, 1962.
- GORBUNOVA, I. V., and FOGEL, A. A. Seismicity of the northern Tyan-Shan. *See no. 15486 of this list.*
15502. GORELIKOV, S. A. Sources of earthquakes in Iran: (in Russian), *Priroda*, no. 12, 67-68, Moscow, 1960. *GEOPHYS. ABSTR.*
15503. GOUGENHEIM, A. Confirmation, par l'observation, du rôle négligeable de la marée terrestre dans la production des séismes: *Acad. Sci. Paris Comptes Rendus*, v. 252, no. 21, 3313-3314, Paris, 1961. A paper of the same name appears as no. 14161 of this list. *GEOPHYS. ABSTR.*
15504. GRATSINSKY, V. G. Distortions of seismic pulse spectra during analysis: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 348-358, Moscow, Mar., 1962. 233-239 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
- GRAU, G., LAVERGNE, M., and FAIL, J. P. Couplage des sismographes avec le sol. *See no. 15483 of this list.*
15505. GREEN, R. The hidden layer problem: *Geophys. Prospecting*, v. 10, no. 2, 166-170, The Hague, June, 1962.
15506. GREEN, R., and STEINHART, J. S. Maine seismic experiment; the apparent velocity of the P phase across short spreads: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3562, Washington, Aug., 1962.
15507. GREEN, R., and STEINHART, J. S. On crustal structure deduced from seismic time-distance curves: *New Zealand J. Geol. Geophys.*, v. 5, no. 4, 579-591, Wellington, Nov., 1962.
- GREGORY, A. R., WYLLIE, M. R. J., and GARDNER, G. H. F. Studies of elastic wave attenuation in porous media. *See no. 15875 of this list.*

PUBLICATIONS OF THE DOMINION OBSERVATORY

15508. GRIGORASH, Z. K., and ZAKLINSKY, A. B. Modelling with tsunamis in the second Kuriles Strait: (in Russian), *Akad. Nauk. SSSR Izv.*, ser. Geofiz., no. 5, 681-692, Moscow, May, 1962. 441-447 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15509. GROHOLY, T. Recent results of the seismic exploration in Hungary: 77-78 in T. Dombai, *Editor*, Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium, on the 8-12th September, 1959, (reported as no. 15459 of this list), *Geofiz. Közlem.*, v. 10, nos. 1-4, Budapest, 1962.
15510. GRUDEVA, N. P. The use of the non-linear recording in the arrangement of seismographs: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 113-116, Moscow, 1962.
15511. GRYGLEWICZ, Z. Seismic activity 1960: (in Polish with English summary), *Acta Geophys. Polonica*, v. 10, no. 2, 195-207, Warsaw, 1962.
15512. GUBIN, I. E. Seismicity and geological structures of central Asia: (with Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 4, 410-411, Prague, 1962.
- GUBIN, I. E., KHARIN, D. A., and SAVARENsky, YE. F., *Editors* Earthquakes in USSR. Part 1. Equipment, Preparation Methods, and Classification of Earthquakes in the USSR. Part 2. Regional Seismicity. See no. 15763 of this list.
- GURNEY, R. D., LEHNER, F. E., WITT, E. O., and MILLER, W. A seismograph for lunar experiments. See no. 15620 of this list.
15513. GURVICH, I. I. On sub-screen reflected waves in seismic surveying: (in Russian), *Vyssh. Ucheb. Zavedeniya Izv.*, Geol. i Razved., no. 1, 100-116, Moscow, 1961.
GEOPHYS. ABSTR.
15514. GUTENBERG, B. Earthquakes in North America, (revised edition): 379-397 in Smithsonian Treasury of Science, v. 2, *Simon and Schuster, Inc.*, New York, 1960. Reported as nos. 7271 and 7839 of this list.
GEOPHYS. ABSTR.
15515. GZOVSKY, M. V. Tectonophysics and earthquake forecasting: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 485-505, Berkeley, July, 1962.
15516. HADLEY, J. B. The Madison landslide: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 45-58, West Yellowstone, 1960.
GEOPHYS. ABSTR.
15517. HAGEDOORN, J. G. In pursuit of the errant seismic pulse: *Geophys. Prospecting*, v. 10, no. 2, 148-165, The Hague, June, 1962.
15518. HAGIWARA, T., and KAYANO, I. Seismological data of Chilean earthquakes in 1960: (with Japanese abstr.), 35-45 in R. Takahashi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
15519. HAGIWARA, T., and KAYANO, I. Seismological observations of the Kita Mino earthquake, August 19, 1961, and its aftershocks: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 873-879, Tokyo, Dec., 1961.
15520. HAI, N., and KHANG, N. D. Sur les ondes T des séismes des Philippines enregistrées à Nhatrang: (with English abstr.), *Ann. Fac. Sci. Saigon*, 343-368, Saigon, 1961.
15521. HAKODA, A. Historical records of tsunami on Shikoku Island and vicinity: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, 23-36, Tokyo, July, 1962.
15522. HALE, J. D., and BEACH, F. K. Interference attenuation in seismic recording: *Can. Oil and Gas Ind.*, v. 15, no. 7, p. 37, Gardenvale, July, 1962.
15523. HALL, D. H., and BRISBIN, W. C. A study of the Mohorovičić discontinuity near Flin Flon, Manitoba: (AF 19 (604) - 8482, Project no. 8652, Task no. 86521), *Project Vela-Uniform, Advanced Research Projects Agency, AFCRL-62-205*, 46 p., available from U.S. Dept. of Comm., Office of Technical Services, Washington 25, D.C.
15524. HALPERIN, E. I. On the change in the direction of the displacement of particles during the passage of seismic waves through a zone of low velocities: (in Russian), *Akad. Nauk. SSSR Izv.*, ser. Geofiz., no. 5, 585-594, Moscow, May, 1962. 384-389 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
- HAMADA, K., and TAZIME, K. Transition from dispersive Rayleigh waves to sound waves in a layer overlying a liquid half space. See no. 15819 of this list.
15525. HAMILTON, J. H., and STEPHENS, E., JR. New developments in seismological instrumentation: 372-410 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15526. HARDTWIG, E. Theorien zur Mikroseismischen Bodenruhe: 302 p., *Akad.-Verlag Geest und Portig K.-G.*, Leipzig, 1962.
- HARKRIDER, D. G., and ANDERSON, D. L. The effect of anisotropy on dispersion of long-period surface waves. See no. 15361 of this list.
- HARKRIDER, D., and PRESS, F. Propagation of acoustic-gravity waves in the atmosphere. See no. 15732 of this list.
15527. HASSELL, N. A. Crustal reflection of plane P and SV waves: *J. Geophys. Res.*, v. 67, no. 12, 4751-4767, Washington, Nov., 1962.
15528. HATORI, T. On the propagation of Chilean tsunami of 1960 in the adjacent sea of Japan: (in Japanese with English abstr.), 103-107 in R. Takahashi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- HATORI, T., and TAKAHASI, R. A summary report on the Chilean tsunami of May 1960. See no. 15807 of this list.
- HAUBRICH, R., BACKUS, G. E., and MUNK, W. Array studies of background noise. See no. 15687 of this list.
15529. HAWKINS, L. V. On techniques with seismic interval timers: *Geophysics*, v. 27, no. 6, pt. 1, 887-889, Tulsa, Dec., 1962.
15530. HAYAKAWA, M., and BALAKRISHNA, S. Some theoretical considerations for the high ultrasonic velocities in Indian granites: *J. Sci. and Industrial Res.*, v. 20B, no. 9, 413-417, New Delhi, 1961.
- HAYWARD, G., HERSEY, J. B., EDGERTON, H. E., and RAYMOND, S. O. Pingers and thumpers advance deep-sea exploration. See no. 15537 of this list.
GEOPHYS. ABSTR.
15531. HEALY, J. H., and PAKISER, L. C. Travel times and propagation paths in the California-Nevada region: 285-311 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
- HEALY, J. H., ROLLER, J. C., and PAKISER, L. C. Crustal structure in the western United States. See no. 15719 of this list.
15532. HÉDERVÁRI, P. A new classification of the volcanic eruptions: (with German summary), *Geologische Beiträge Geophys.*, v. 71, no. 2, 90-96, Leipzig, 1962.

15533. HEEZEN, B. C. The deep-sea floor: 235-288 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), Academic Press, New York and London, 1962.
15534. HEISKANEN, W. A. Some recent gravimetric studies on the isostasy and the thickness of the earth's crust: 79-89 in T. Dombai, *Editor*, Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium, on the 8-12th September, 1959, (reported as no. 15459 of this list), *Geofiz. Közlem.*, v. 10, nos. 1-4, Budapest, 1962.
- HEMON, C., BOIS, P., and CHAUVEAU, J. Étude analogique de la déformation d'un signal sismique. *See no. 15407 of this list.* GEOPHYS. ABSTR.
15535. HERRIN, E., and TAGGART, J. Tables of seismological co-latitude: *J. Graduate Res. Center*, v. 29, no. 3, 193-197, Dallas, Dec., 1961.
15536. HERRIN, E., TAGGART, J., and BROWN, C. F., JR. Machine computation of earthquake hypocenters: *J. Graduate Res. Center*, v. 30, no. 2, 79-106, Dallas, 1962.
15537. HERSEY, J. B., EDGERTON, H. E., RAYMOND, S. O., and HAYWARD, G. Pingers and thumpers advance deep-sea exploration: *ISA Jour.*, v. 8, no. 1, 72-77, Pittsburgh, 1961. GEOPHYS. ABSTR.
15538. HIERSEMANN, L. Fortlaufende Aufzeichnung von Bodenbewegungen durch ein Strainseismometer: *Freiberger Forschung.*, v. 135, 81 p., Berlin, 1962.
15539. HIGUCHI, H. On the change of amplitude of Chilean tsunami in Sakai Channel: 129-135 in R. Takahashi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
15540. HIRONO, T. The Chilean earthquake of 1960: *J. Geog.*, v. 70, no. 3, 122-133, Tokyo, 1961. GEOPHYS. ABSTR.
15541. HODGSON, J. H. The upper mantle project: *Canadian Surveyor, The*, v. 16, no. 3, 149-159, Ottawa, May, 1962.
15542. HODGSON, J. H. Movements in the earth's crust as indicated by earthquakes: 67-102 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), Academic Press, New York and London, 1962.
15543. HOFFER, A. Seismic control of layering in intrusives: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3566, Washington, Aug., 1962.
- HOGAN, T. K., DOYLE, H. A., and EVERINGHAM, I. B. Seismic recordings of large explosions in south-eastern Australia. *See no. 15462 of this list.*
- HOLMES, C. R., and SANFORD, A. R. Microearthquakes near Socorro, New Mexico. *See no. 15754 of this list.*
- HORI, M., AKI, K., MATUMOTO, H., ANDO, S., and MIYAMURA, S. Observation of aftershocks of the Kita Mino earthquake, Aug. 19, 1961. Observation at Hachiman, Gifu Prefecture, Central Japan. *See no. 15669 of this list.*
15544. HORIKAWA, K. Tsunami phenomena in the light of engineering view-point: 136-150 in R. Takahashi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- HOWELL, B. F., JR., BONINI, W. E., FAHLQUIST, D. A., ALDRICH, L. T., MEYER, R. P., and STEINHART, J. S. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements. *See no. 15660 of this list.*
- HOWELL, B. F., JR., FAHLQUIST, D. A., BONINI, W. E., ASADA, T., STEINHART, J. S., and MEYER, R. P. Maine seismic experiment; general crustal results. *See no. 15792 of this list.*
- HOWELL, B. F., JR., and LAVIN, P. M. Model studies of first-motion patterns of S around different force systems. *See no. 15617 of this list.*
- HOWELL, B. F., JR., and PFLUKE, J. H. Model studies of first motions produced by an actual fault. *See no. 15726 of this list.*
15545. HSU, M. T. Seismicity of Taiwan (Formosa): (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 831-847, Tokyo, Dec., 1961.
- HUGHES, H., FAURE, G., FAIRBAIRN, H. W., PINSON, W. H., and HURLEY, P. M. Radiogenic strontium-87 model of continent formation. *See no. 15547 of this list.*
15546. HUNKINS, K., and KUO, J. T. Rayleigh and Love wave dispersion in the Tonga-Fiji region: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3567, Washington, Aug., 1962.
15547. HURLEY, P. M., HUGHES, H., FAURE, G., FAIRBAIRN, H. W., and PINSON, W. H. Radiogenic strontium-87 model of continent formation: *J. Geophys. Res.*, v. 67, no. 13, 5315-5334, Washington, Dec., 1962.
15548. IIDA, K., and OHTA, Y. On the height of the Chilean tsunami on the Pacific coasts of central Japan and the effect of coasts on the tsunami, particularly on the comparison between the tsunami and those that accompanied the Tōnankai and Nankaidō earthquakes: (with Japanese abstr.), 108-125 in R. Takahashi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- IMADA, T., and MIYOSHI, H. The land-tied island and the tidal establishments—for the people of Talcahuano (Chile). *See no. 15670 of this list.*
- INGRAM, J. D., and LEVIN, F. K. Head waves from a bed of finite thickness. *See no. 15621 of this list.*
- ISACKS, B., and OLIVER, J. Seismic waves coupled to sonic booms. *See no. 15714 of this list.*
- ISHIDA, H., KATO, Y., SUZUKI, Z., NAKAMURA, K., TAKAGI, A., EMURA, K., and ITO, M. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
- ISHIDA KAWAI, H., and SUZUKI, Z. Model experiments on flexural waves within a plate of varying thickness in the direction perpendicular to path. *See no. 15801 of this list.*
- ITO, M., ISHIDA, H., KATO, Y., SUZUKI, Z., NAKAMURA, K., TAKAGI, A., and EMURA, K. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
15549. IUGG CHRONICLE
Central organization for seismology: no. 44, p. 167, Paris, July, 1962.
Réunion du groupe de travail sur l'étude de la croûte terrestre: (recommendations in French and English), no. 44, 168-170, Paris, July, 1962.
Establishment of a committee on standardization of seismographs: no. 44, p. 170, Paris, July, 1962.
15550. IVANOV, L. I. Use of seismic surveying for study of the gentle platform structures of Bashkiria: (in Russian), *Geol. Nefti Gaza.*, no. 9, 51-57, Moscow, 1959. GEOPHYS. ABSTR.
15551. IYER, H. M. Nuclear explosions and normal mode oscillations of the earth: *Nature*, v. 196, no. 4849, p. 55, London, Oct., 1962. (This is a discussion of a paper reported as no. 15053 of this list). A reply by S. Balakrishna appears on p. 55 of this journal.
- IZAKI, A., and SASA, Y. Analysis and geologic interpretation of sonic survey on the western passage of Tsugaru Strait, Japan. 2. *See no. 15757 of this list.*

15552. JAPAN NATIONAL COMMITTEE FOR THE INTERNATIONAL GEOPHYSICAL YEAR Seismograms of Major Earthquakes Observed in Japan During the International Geophysical Year, 1957/58: 145 p., *Sci. Council of Japan*, Tokyo, Feb., 1960.
15553. JARDETZKY, W. S. Aperiodic pole shift and deformation of the earth's crust: *J. Geophys. Res.*, v. 67, no. 11, 4461-4472, Washington, Oct., 1962.
15554. JEFFREYS, H. Some normal earthquakes: *Geophys. J.*, v. 6, no. 4, 493-508, London, June, 1962.
15555. JEFFREYS, H. Deep foci and distribution of velocity: *Geophys. J.*, v. 6, no. 4, 550-552, London, June, 1962.
15556. JOBERT, G. Modèles de répartition des densités dans les planètes terrestres: *Annales Géophys.*, v. 18, no. 2, 133-149, Paris, Apr.-June, 1962.
- JOBERT, G., JOBERT, N., CONNES, J., and BLUM, P. A. Observation des oscillations propres de la terre. *See no. 15443 of this list.*
- JOBERT, N., CONNES, J., BLUM, P. A., and JOBERT, G. Observation des oscillations propres de la terre. *See no. 15443 of this list.*
15557. JONES, G. H. S. Transverse motion from repeated explosions: *J. Geophys. Res.*, v. 67, no. 7, 2994-2997, Washington, July, 1962.
15558. KAGOSHIMA, L. M. O. The earthquake swarm in Yoshimatsu Town, Kagoshima Prefecture: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, 38-40, Tokyo, July, 1962.
15559. KAJIURA, K. A note on the partial reflection of long waves passing through a submarine ridge: 100-102 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- KALASHNIKOVA, I. V., and MAGNITSKY, V. A. On the general direction of development of the earth's crust. *See no. 15640 of this list.*
- KALININ, V. A., TRUBITSYN, V. P., and EGOROV, N. N. Absorption of the Rayleigh waves in a layer on half-space. *See no. 15470 of this list.*
- KALININ, V. A., and ZHARKOV, V. N. Seismic wave reflection at the ore-mantle boundary. *See no. 15887 of this list.*
- KALININ, V. A., and ZHARKOV, V. N. The equation of state of gabbro and dunite at high pressures. *See no. 15886 of this list.*
15560. KAMETANI, T., TABATA, T., and KAWAMURA, T. Checking deep reflection phases by vertical spread: (in Japanese with English abstr.), *Butsuri-Tankō*, v. 13, no. 3, 167-171, Kawasaki, 1960. *GEOPHYS. ABSTR.*
15561. KANAI, K. On the spectrum of strong earthquake motions: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 71-90, Tokyo, Mar., 1962.
15562. KANAI, K., and OSADA, K. Seismic characteristics in ground of mountainous formation. Observation of the aftershocks of the Kita Mino earthquake: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 943-951, Tokyo, Dec., 1961.
15563. KANDA, Y. Application of the values of velocity of elastic waves in the bedrock from the standpoint of engineering geology. Part 2: (in Japanese with English abstr.), *Butsuri-Tankō*, v. 13, no. 3, 160-166, Kawasaki, 1960. *GEOPHYS. ABSTR.*
15564. KANE, J. Propagation of Rayleigh waves past a fluid-loaded boundary: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3571, Washington, Aug., 1962.
- KAPPELMAYER, O., and FUCHS, K. Report on reflection measurements in the Dolomites, September, 1961. *See no. 15489 of this list.*
- KARAKAMA, I., NAKAJIMA, N., SAITO, S., and OMOTE, S. Aftershocks of the Kita Mino earthquake of August 19, 1961. Observations at the Kadohara and the Hirugano stations. *See no. 15715 of this list.*
15565. KÁRNÍK, V. Amplitude-distance curves of surface waves at short epicentral distances ($\Delta < 2000$ km): (with Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 4, 340-346, Prague, 1962.
15566. KATO, Y., SUZUKI, Z., NAKAMURA, K., TAKAGI, A., EMURA, K., Ito, M., and ISHIDA, H. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan: 67-76 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
15567. KATS, A. Z., and RUSTANOVICH, D. N. Seismicity of the Sochi region-Krasnaya Plynna region: (in Russian), 235-239 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk. SSSR*, Moscow, 1961.
15568. KAWAMURA, B., and MOGI, A. On the deformation of the sea bottom in some harbours in the Sanriku coast due to the Chili tsunami: (with Japanese abstr.), 57-66 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- KAWAMURA, T., KAMETANI, T., and TABATA, T. Checking deep reflection phases by vertical spread. *See no. 15560 of this list.* *GEOPHYS. ABSTR.*
15569. KAWASHIMA, T., and NAGUMO, S. On the interpretation of seismic reflection method. I. Picking of reflections: *Japan Geol. Surv. Bull.*, v. 11, no. 10, 619-630, Kawasaki, 1960. *GEOPHYS. ABSTR.*
- KAWASHIMA, T., and NAGUMO, S. On the variable representative of the seismic record section. *See no. 15693 of this list.* *GEOPHYS. ABSTR.*
15570. KAWASUMI, H. Postscript on the reports of the Kita Mino earthquake: (in Japanese), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, p. 953, Tokyo, Dec., 1961.
- KAYANO, I., and HAGIWARA, T. Seismological data of Chilean earthquakes in 1960. *See no. 15518 of this list.*
- KAYANO, I., and HAGIWARA, T. Seismological observations of the Kita Mino earthquake, August 19, 1961, and its aftershocks. *See no. 15519 of this list.*
- KERN, J. W., and LAMAR, D. L. Stability of the earth's axis of rotation and phase changes. *See no. 15610 of this list.*
15571. KEYLIS-BOROK, V. I., and MALINOVSKAYA, L. N. The problem of the identification of explosions by advancing body waves: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 117-124, Moscow, 1962.
- KHANG, N. D., and HAI, N. Sur les ondes T des séismes des Philippines enregistrées à Nhatrang. *See no. 15520 of this list.*
15572. KHARAZ, I. I., and BOYKO, V. N. Certain results of application of grouped shots in the area of the outer zone of the Cis-Carpathian depression: (in Russian), *Razved. Promyslov. Geofiz.*, no. 35, 24-29, Moscow, 1960. *GEOPHYS. ABSTR.*
- KHARCHENKO, F. M., and KHARCHENKO, G. YE. Small-size seismic apparatus for engineering-geological and hydrogeological investigation. *See no. 15573 of this list.* *GEOPHYS. ABSTR.*

15573. KHARCHENKO, G. Ye., and KHARCHENKO, F. M. Small-size seismic apparatus for engineering-geological and hydrogeological investigations: (in Russian), *Akad. Nauk Ukrayin. RSR Dopovidi*, no. 9, 127-129, Kiev, 1960.
GEOPHYS. ABSTR.
- KHARIN, D. A., KORIDALIN, E. A., MASARSKY, S. I., and NERSESOV, I. L. Experience of the instrumental study of local earthquakes. *See no. 15595 of this list.*
- KHARIN, D. A., SAVARENsky, YE. F., and GUBIN, I. E., Editors Earthquakes in USSR. Part 1. Equipment, Preparation Methods, and Classification of Earthquakes in the USSR. Part 2. Regional Seismicity. *See no. 15763 of this list.*
- KHARIN, D. A., SHEBALIN, N. V., and KIRNOS, D. P. Development history of instrumental seismic observations in SSSR. *See no. 15581 of this list.*
- KHARIN, D. A., SHEMYAKINA, E. I., KUZ'MINA, N. V., ROMASHEV, A. N., and RULEV, B. G. Seismic effect of pin-point blastings in coherent grounds without rocks. *See no. 15608 of this list.*
15574. KHOROSHEVA, V. V. The study of a waveguide on a solid two-dimensional model with sharp boundaries: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 1025-1033, Moscow, Aug., 1962. 657-661 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15575. KOVANOV, R. I. Earthquakes of the Altay-Saya zone: (in Russian), 349-352 in Ye. F. Savarenky, I. E. Gubin, D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15576. KHUDZINSKY, L. L. Determination of some of the spectral features of layered media: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 281-297, Moscow, Mar., 1962. 195-203 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
15577. KING, M. S., and FATT, I. Ultrasonic shear-wave velocities in rocks subjected to simulated overburden pressure: *Geophysics*, v. 27, no. 5, 590-598, Tulsa, Oct., 1962.
15578. KIRILLOV, F. A. Research into the seismic effect of blasting at the Earth's Physics Institute of the Academy of Sciences of the USSR: (in Russian), 123-138 in S. V. Medvedev, Editor, Problems in Engineering Seismology, (reported as no. 15655 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
15579. KIRILLOV, F. A., MEDVEDEV, S. V., and SHAMIN, V. M. Results of seismic investigations on the effect of explosions on buildings: (in Russian), 118-122 in S. V. Medvedev, Editor, Problems in Engineering Seismology, (reported as no. 15655 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
15580. KIRILLOVA, I. V. Transverse differentiation of recent tectonic movements in the zone of the south flank of the eastern Caucasus: (in Russian), *Moskov. Obshch. Ispytateley Prirody Byull.*, sec. Geol., v. 36, no. 1, 24-39, Moscow, 1961.
GEOPHYS. ABSTR.
15581. KIRNOS, D. P., KHARIN, D. A., and SHEBALIN, N. V. Development history of instrumental seismic observations in SSSR: (in Russian), 9-66 in Ye. F. Savarenky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15582. KISHINOUE, F. Oscillations of water in a reservoir, observed in the case of the Kita Mino earthquake of Aug. 19, 1961: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 67-70, Tokyo, Mar., 1962.
15583. KISHINOUE, F., and ONDA, I. Field studies of the Kita Mino earthquake of August 19, 1961: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 857-868, Tokyo, Dec., 1961.
- KISSLINGER, C., and STAUDER, W., S. J. Some P and S wave studies of the mechanism of earthquakes and small chemical explosions. *See no. 15789 of this list.*
15584. KITSUNEZAKI, C. Study on high frequency seismic prospecting. I. On its application to exploration in metal mines: (in Japanese with English abstr.), *Butsuri-Tankō*, v. 13, no. 2, 102-107, no. 3, 137-146, Kawasaki, 1960.
GEOPHYS. ABSTR.
- KIZAWA, T., and YAMAGUCHI, R. Surface waves and layered structures. Part 2. Theoretical dispersion curves for suboceanic surface waves. *See no. 15877 of this list.*
- KLIMA, K., PROS, Z., and VANĚK, J. Features of the procedure for measuring elastic wave absorption in rock specimens. *See no. 15846 of this list.*
- KLIMA, K., PROS, Z., and VANĚK, J. The velocity of elastic waves in diabase and greywacke under pressures up to 4 kilobars. *See no. 15734 of this list.*
15585. KNOPOFF, L. Empirical determination of the inverse filter for equalization of surface waves: 211-236 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15586. KNOPOFF, L. Dispersion of Love waves by a tapering crust: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3572, Washington, Aug., 1962.
15587. KNOPOFF, L., and MACDONALD, G. J. F. Attenuation of small amplitude stress waves in solids: *Rev. Modern Phys.*, v. 30, no. 4, 1178-1192, New York, Oct., 1958.
- KNOPOFF, L., and PILANT, W. L. Observations of multiple seismic events. *See no. 15729 of this list.*
15588. KNOTHE, C. Verbesserte Auswertung tiefenseismischer Beobachtungen durch Verwendung von Mehrkomponenten-Stationen: *Bergakademie*, v. 8, p. 592, Freiberg, 1962.
- KOBAYASHI, N., TAKEUCHI, H., and SAITO, M. A computer program for studying free oscillations of heterogeneous elastic spheres and surface wave propagations along a free surface of semi-infinite heterogeneous elastic media. *See no. 15810 of this list.*
15589. KOEFOED, O. Reflection and transmission coefficients for plane longitudinal incident waves: *Geophys. Prospecting*, v. 10, no. 3, 304-351, The Hague, Sept., 1962.
15590. KOFU, D. M. O. Effect of asphalt paving on reducing ground vibration recorded by a seismograph: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, p. 40, Tokyo, July, 1962.
15591. KONDORSKAYA, N. V., and TARAKANOV, R. Z. Kurile-Kamchatka earthquakes: (in Russian), 370-383 in Ye. F. Savarenky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- KON'KOV, A. T., and BUTOBISKAYA, E. M. Seismicity of the Fergana valley and of Tashkent. *See no. 15419 of this list.*
15592. KON'NO, E., et al. Geological observations of the Sanriku coastal region damaged by the tsunami due to the Chile earthquake in 1960: *Tōhoku Univ. Inst. Geol. and Paleontology Contr.*, no. 52, 40 p., Sendai, 1961.
GEOPHYS. ABSTR.
15593. KONOVALOV, M. M. Simplified determination of corrections in traveltimes of reflected waves for surface conditions: (in Russian), *Razved. Promyslov. Geofiz.*, no. 35, 61-65, Moscow, 1960.
GEOPHYS. ABSTR.

PUBLICATIONS OF THE DOMINION OBSERVATORY

15594. KORCHAGINA, O. A., MESHKOV, M. M., and MONAKHOV, F. I. On the frequency selection of oceanic storm microseisms: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 6, 771-775, Moscow, June, 1962. 495-497 in the English edition, *Am. Geophys. Union*, Washington Sept., 1962.
15595. KORIDALIN, E. A., MASARSKY, S. I., NERSESOV, I. L., and KHARIN, D. A. Experience of the instrumental study of local earthquakes: (in Russian), 139-161 in Ye. F. Savarenky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- KORNEV, V. A., and VARTANOV, S. P. New data on the geological structure of the northern Caspian (based on the results of marine seismic investigations). *See no. 15848 of this list.*
15596. KOVACH, R. L., ALLEN, C. R., and PRESS, F. Geophysical investigations in the Colorado delta region: *J. Geophys. Res.*, v. 67, no. 7, 2845-2871, Washington, July, 1962.
15597. KOVACH, R. L., and ANDERSON, D. L. Long-period Love waves in a heterogeneous, spherical earth: *J. Geophys. Res.*, v. 67, no. 13, 5243-5255, Washington, Dec., 1962.
- KOVACH, R. L., and CARR, R. Toroidal oscillations of the moon. *See no. 15426 of this list.*
15598. KOVYLIN, V. M. New data on the thickness of bottom sediments of the Indian Ocean: (in Russian), *Akad. Nauk SSSR Dokl.*, v. 136, no. 4, 924-926, Moscow, 1961.
- GEOPHYS. ABSTR.
15599. KOZLOV, E. A. Longitudinal wave velocities in terrigenous deposits: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 1009-1024, Moscow, Aug., 1962. 647-656 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
- KRASIL'SHCHIKOVA, G. A., MIRONOVA, V. I., FROLOVA, A. V., and GAL'PERIN, YE. I. Method and techniques of using stereographic projections for solving spatial problems in geometrical seismics. *See no. 15492 of this list.*
15600. KRAYEV, G. A., and REL'TOV, B. F. Attenuation of elastic waves in models of fractures: (in Russian), *Leningrad Univ. Uchenye Zapiski*, no. 286, 125-219, Leningrad, 1960.
- GEOPHYS. ABSTR.
15601. KREY, T., SCHMIDT, G., and SEELIS, K.-H. Concerning the possibilities of extending the penetration possible with seismic reflection methods: (abstr. only), *Erdöl u. Kohle*, v. 14, no. 7, 521-526, Berlin, 1961.
15602. KUKN, V. V. Side waves, diffracted and refracted at a vertical contact (from modeling data): (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 7, 873-886, Moscow, July, 1962. 561-568 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
15603. KUL'CHIKHINA, T. N. On the conditions under which cusps and closed loops are formed on the traveltimes curves of reflected waves: (in Russian), *Razved. Promyslov. Geofiz.*, no. 35, 3-12, Moscow, 1960.
- GEOPHYS. ABSTR.
- KUO, J. T., and HUNKINS, K. Rayleigh and Love wave dispersion in the Tonga-Fiji region. *See no. 15546 of this list.*
15604. KUO, J. T., and NAFE, J. E. Period equation for Rayleigh waves in a layer overlying a half space with a sinusoidal interface: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 807-822, Berkeley, Oct., 1962.
15605. KUPFER, D. H. Shakers vs. quakers: *GeoTimes*, v. 7, no. 4, 24-25, Washington, Nov.-Dec., 1962.
15606. KURIMOTO, H. A study on frequency distribution of earthquake magnitude having respect to depth and time: (in Japanese with English summary), *Zisin*, *J. Seismol. Soc. of Japan*, v. 14, no. 4, ser. 2, 205-216, Tokyo, Dec., 1961.
15607. KUSHIRO L.M.O. Report on the Kushiro-oki earthquake of August 12, 1961: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, 41-42, Tokyo, July, 1962.
- KUZ'MINA, N. V., and BAGDASAROVA, A. M. Seismicity of Garm zone. *See no. 15370 of this list.*
- KUZ'MINA, N. V., NENILINA, V. S., and BAGDASAROVA, A. M. Seismicity of Shemakha zone. *See no. 15371 of this list.*
15608. KUZ'MINA, N. V., ROMASHEV, A. N., RULEV, B. G., KHARIN, D. A., and SHEMYAKINA, E. I. Seismic effect of pin-point blastings in coherent grounds without rocks: (in Russian), 3-72 in S. V. Medvedev, *Editor*, *Problems of Engineering Seismology*, (reported as no. 15655 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
15609. KVALE, A. Earthquakes: *Norges Geol. Undersøkelse*, no. 208, 490-506, Oslo, 1960.
15610. LAMAR, D. L., and KERN, J. W. Stability of the earth's axis of rotation and phase changes: *J. Geophys. Res.*, v. 67, no. 11, 4479-4484, Washington, Oct., 1962.
15611. LAMB, G. L. The attenuation of waves in a dispersive medium: *J. Geophys. Res.*, v. 67, no. 13, 5273-5277, Washington, Dec., 1962.
15612. LANDISMAN, M. Transient analysis of seismic body- and surface-wave arrivals: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3573, Washington, Aug., 1962.
- LANDISMAN, M., and EWING, M. Shape and structure of ocean basins. *See no. 15482 of this list.*
15613. LANDISMAN, M., MUELLER, S., BOLT, B., and EWING, M. Transient analysis of seismic core phases: (with German summary), *Geofis. Pura e Appl.*, v. 52, 41-52, Milan, May-Aug., 1962.
- LANDISMAN, M., SATŌ, Y., and SYKES, L. Mantle shear wave velocities determined from oceanic Love and Rayleigh wave dispersion. *See no. 15802 of this list.*
15614. LANDSBERG, H. E., and VAN MIEGHEM, J., *Editors*, *Advances in Geophysics*, Vol. 9: xi + 374 p., Academic Press, New York and London, 1962.
- LASTER, S. J., BACKUS, M. M., SCHELL, R., and GILBERT, F. Observation of pulses on an interface. *See no. 15499 of this list.*
15615. LATYNINA, L. A. Differences in the course of displacements at near points on the earth's surface: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 478-484, Moscow, Apr., 1962. 316-319 in the English edition, *Am. Geophys. Union*, Washington, July, 1962.
15616. LATYPOV, Z. A rapid method of construction of refracting boundaries by the method of circles: (in Russian), *Akad. Nauk Kazakh. SSR Izv.*, ser. Geol., no. 1 (42), 100-103, Alma-Ata, 1961.
- GEOPHYS. ABSTR.
- LAUDON, T. S., WOLD, R. J., and BEHRENDT, J. C. Results of a geophysical traverse from Mount Murphy to the Hudson Mountains, Antarctica. *See no. 15387 of this list.*
- LAVERGNE, M., FAIL, J. P., and GRAU, G. Couplage des sismographes avec le sol. *See no. 15483 of this list.*
15617. LAVIN, P. M., and HOWELL, B. F., Jr. Model studies of first-motion patterns of S around different force systems: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3574, Washington, Aug., 1962.
- LEBEDEVA, F. V., and SHAMINA, O. G. Coverted waves on models of the earth's crust and mantle. *See no. 15772 of this list.*
- LEBEDEVA, T. M., LEVITSKAYA, A. YA., TSKHAKAYA, A. D., and BYUS, E. I. Seismicity of Caucasus. *See no. 15420 of this list.*
- LEEDS, D. J., and DUKE, C. M. Site characteristics of southern California strong-motion earthquake stations. *See no. 15466 of this list.*

- LEET, F. J., and LEET, L. D. Cause of microseisms—a theory. *See no. 15618 of this list.*
15618. LEET, L. D., and LEET, F. J. Cause of microseisms—a theory. *Geol. Soc. Am. Bull.*, v. 73, no. 8, 1021–1022, New York, Aug., 1962.
15619. LEHMANN, I. The travel times of the longitudinal waves of the Logan and Blanca atomic explosions and their velocities in the upper mantle: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 519–526, Berkeley, July, 1962.
15620. LEHNER, F. E., WITT, E. O., MILLER, W., and GURNEY, R. D. A seismograph for lunar experiments: *J. Geophys. Res.*, v. 67, no. 12, 4779–4786, Washington, Nov., 1962.
15621. LEVIN, F. K., and INGRAM, J. D. Head waves from a bed of finite thickness: *Geophysics*, v. 27, no. 6, pt. 1, 753–765, Tulsa, Dec., 1962.
15622. LEVITSKAYA, A. YA. Seismicity of Crimea: (in Russian), 217–221 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15623. LEVITSKAYA, A. YA. Earthquakes of the Urals: (in Russian), 384–386 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- LEVITSKAYA, A. YA., SAGALOVA, E. A., and EVSEEV, S. V. Seismicity of the Carpathian zone. *See no. 15478 of this list.*
- LEVITSKAYA, A. YA., TSKHAKAYA, A. D., BYUS, E. I., and LEBEDEVA, T. M. Seismicity of Caucasus. *See no. 15420 of this list.*
15624. LEVYANT, V. B. An experiment in conducting group shots under conditions of the Stalingrad region: (in Russian), *Razved. Promyslov. Geofiz.*, no. 35, 15–23, Moscow, 1960. *GEOPHYS. ABSTR.*
15625. LEVYKIN, A. I. Research into absorption of elastic waves by rock samples under high confining pressures: (in Russian), 50–54 in M. P. Volarovich, Editor, Physical Characteristics of Rocks under High Pressure, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.
15626. LEVYKIN, A. I. Damping of ultrasonic waves in rock specimens at various frequencies: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 389–391, Moscow, Mar., 1962. 259–261 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
- LIANG, W. L., and CLAY, C. S. Continuous seismic profiling with matched filter detector. *See no. 15438 of this list.*
15627. LIEBSCHER, H.-J. Reflexionshorizonte der tieferen Erdkruste im Bayerischen Alpenvorland, abgeleitet aus Ergebnissen der Reflexionseismik: *Zeitschr. Geophys.*, v. 28, no. 4, 162–184, Würzburg, 1962.
15628. LINDEN, N. A. Earthquakes of the Far-Eastern zone. (in Russian), 362–369 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15629. LINDEN, N. A. Seismicity of the Soviet Arctic: (in Russian), 387–392 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15630. LINDEN, N. A., and SAVARENSKY, YE. F. Seismicity of Kopetdag zone: (in Russian), 259–262 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15631. LIBOUTRY, L., and VIVET, R. Épaisseurs de glace et debit solide de la Vallée Blanche supérieure (Massif du Mont-Blanc): *Acad. Sci. Paris Comptes Rendus*, v. 252, no. 15, 2274–2276, Paris, 1961. *GEOPHYS. ABSTR.*
- LOPEZ ARROYO, A., and BÅTH, M. Attenuation and dispersion of G waves. *See no. 15385 of this list.*
15632. LOSSOVSKY, YE. K. Allowing for sensitivity of receiver channels when plotting amplitude graphs of seismic waves: (in Russian), *Akad. Nauk Ukrayin, RSR Dopovidi*, no. 7, 904–907, Kiev, 1961. *GEOPHYS. ABSTR.*
15633. LUDWIG, W. J., EWING, M., EWING, J., and DRAKE, C. L. Discussion of a paper by C. H. Savit, D. M. Blue, and J. G. Smith, 'Exploration seismic techniques applied to oceanic crustal studies': *J. Geophys. Res.*, v. 67, no. 12, 4946–4947, Washington, Nov., 1962. The paper referred to was reported as no. 15166 of this list.
- LYAMZINA, G. A., and MEDVEDEV, S. V. Seismic effect of blastings in mines. *See no. 15656 of this list.*
15634. LYUBIMOVA, YE. A. Thermal elastic stresses inside the earth: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 51–57, Moscow, 1962.
15635. MACCARTHY, G. R. Three forgotten earthquakes: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3576, Washington, Aug., 1962.
15636. MACDONALD, G. A. The activity of Hawaiian volcanoes during the years 1951–1956: *Bull. Volcanol.*, v. 22, ser. 2, 3–70, Naples, 1959.
- MACDONALD, G. J. F., and KNOPOFF, L. Attenuation of small amplitude stress waves in solids. *See no. 15587 of this list.*
15637. MACHADO, F., PARSONS, W. H., RICHARDS, A. F., and MULFORD, J. W. Capelinhos eruption of Fajal volcano, Azores, 1957–1958: *J. Geophys. Res.*, v. 67, no. 9, 3519–3529, Washington, Aug., 1962.
15638. MACLEAN, W. F. Postglacial uplift in the Great Lakes region: 234 p., Spec. Rept. no. 14, Great Lakes Res. Div., Inst. Sci. Tech., Univ. of Michigan, Ann Arbor, Dec., 1961.
15639. MACPHERSON, J. D. A new interpretation of seismic refraction profiles obtained in the Hartlen Point region of the Scotian Shelf: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, p. 693, Berkeley, July, 1962.
15640. MAGNITSKY, V. A., and KALASHNIKOVA, I. V. On the general direction of development of the earth's crust: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 993–996, Moscow, Aug., 1962. 637–639 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15641. MAL, A. K. On the frequency equation for Love waves due to abrupt thickening of the crustal layer: *Geofis. Pura e Appl.*, v. 52, 59–68, May–Aug., 1962.
15642. MALINOVSKAYA, L. N., and CHECHEL', N. I. Distortion of transitional oscillations in galvanometric recording: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 125–136, Moscow, 1962.
- MALINOVSKAYA, L. N., and KEYLIS-BOROK, V. I. The problem of the identification of explosions by oncoming volume waves. *See no. 15571 of this list.*
15643. MARTIN, W. Refraktionsseismische Übersichts- und Spezialmessungen in der Deutschen Demokratischen Republik: 97–105 in T. Dombai, Editor, Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium, on the 8–12th September, 1959, (reported as no. 15459 of this list), *Geofiz. Közlem.*, v. 10, nos. 1–4, Budapest, 1962.
15644. MARTNER, S. T., and SILVERMAN, D. Broomstock distributed charge: *Geophysics*, suppl., v. 27, no. 6, pt. 2, 1007–1015, Tulsa, Dec., 1962.

15645. MASARSKY, S. I. Seismicity of Western Turkmenia: (in Russian) 263-272 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15646. MASARSKY, S. I. Travel-time curves for Altai seismic waves from industrial explosion data: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 7, 887-894, Moscow, July, 1962. 569-572 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
- MASARSKY, S. I., NERSESOV, I. L., KHARIN, D. A., and KORIDALIN, E. A. Experience of the instrumental study of local earthquakes. *See no. 15595 of this list.*
15647. MASARSKY, S. I., and TRESKOV, A. A. Preparation methods of the instrumental observations: (in Russian), 67-82 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15648. MATSUDA, T. Crustal structure of the south Fossa Magna, Japan, inferred from the geological data: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 357-369, Tokyo, June, 1962.
- MATSUDA, T., and MORIMOTO, R. Geology of the area damaged by the Kita Mino earthquake. Part I. The upper reaches of the Uchinami River and the Itoshiro River, Fukui and Gifu Prefectures, Japan. *See no. 15686 of this list.*
15649. MATSUZAWA, T. Generation mechanism of earthquakes: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, ser. 2, 254-259, Tokyo, Dec., 1961.
- MATUMOTO, H., ANDO, S., MIYAMURA, S., HORI, M., and AKI, K. Observation of aftershocks of the Kita Mino earthquake, Aug. 19, 1961. Observation at Hachiman, Gifu Prefecture, Central Japan. *See no. 15669 of this list.*
15650. MATUMOTO, T., and SATÔ, Y. Phase velocity of long-period Rayleigh and Love waves as observed in the Chilean earthquake of May 22, 1960: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3579, Washington, Aug., 1962.
15651. MATUZAWA, T., ASADA, T., DEN, N., and TAKANO, K. Tripartite observations of microseisms: *Japanese J. Geophys.*, v. 3, no. 1, 1-74, Tokyo, Mar., 1962.
15652. McALEER, J. F. A rotational fault block in the Madison River earthquake area: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 56-60, West Yellowstone, 1960. *GEOPHYS. ABSTR.*
15653. MCCAMY, K., MEYER, R. P., and SMITH, T. J. Generally applicable solutions of Zoepritz' amplitude equations: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 923-955, Berkeley, Oct., 1962. An abstract appears on p. 3576 of *J. Geophys. Res.*, v. 67, no. 9, Washington, Aug., 1962.
15654. MEDVEDEV, S. V. Determination of the shock intensity of the earthquakes: (in Russian), 103-125 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, Editors, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15655. MEDVEDEV, S. V., Editor Problems of Engineering Seismology: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), 138 p., Moscow, 1962.
15656. MEDVEDEV, S. V., and LYAMZINA, G. A. Seismic effect of blastings in mines: (in Russian), 73-102 in S. V. Medvedev, Editor, Problems of Engineering Seismology, (reported as no. 15655 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
- MEDVEDEV, S. V., SHAMIN, V. M., and KIRILLOV, F. A. Results of seismic investigations on the effect of explosions on buildings. *See no. 15579 of this list.*
15657. MERINO Y CORONADO, J. Capacitively coupled seismographs and accelerographs: (in Spanish and English), *Geofis. Internat.*, v. 2, no. 2, 31-34, Mexico, Apr., 1962.
- MESHKOV, M. M., MONAKHOV, F. I., and KORCHAGINA, O. A. On the frequency selection of oceanic storm microseisms. *See no. 15594 of this list.*
- MEYER, R. P., HOWELL, B. F., JR., FAHLQUIST, D. A., BONINI, W. E., ASADA, T., and STEINHART, J. S. Maine seismic experiment; general crustal results. *See no. 15792 of this list.*
- MEYER, R. P., SMITH, T. J., and MCCAMY, K. Generally applicable solutions of Zoepritz' amplitude equations. *See no. 15653 of this list.*
15658. MEYER, R. P., and STEINHART, J. S. Instrumentation and field problems: 157-198 in J. S. Steinhart, and R. P. Meyer, Editors, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
- MEYER, R. P., and STEINHART, J. S. Minimum statistical uncertainty of the seismic refraction profile. *See no. 15791 of this list.*
15659. MEYER, R. P., STEINHART, J. S., and BONINI, W. E. Montana, 1959: 305-343 in J. S. Steinhart and R. P. Meyer, Editors, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
15660. MEYER, R. P., STEINHART, J. S., HOWELL, B. F., JR., BONINI, W. E., FAHLQUIST, D. A., and ALDRICH, L. T. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, 3580-3581, Washington, Aug., 1962.
- MEYER, R. P., STEINHART, J. S., and SMITH, T. J. Theoretical background. *See no. 15795 of this list.*
15661. MEYER, R. P., STEINHART, J. S., and WOOLLARD, G. P. Central plateau, Mexico, 1957: 199-225 in J. S. Steinhart, and R. P. Meyer, Editors, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
- MEYER, R. P., WOOLLARD, G. P., and STEINHART, J. S. Arkansas-Missouri, 1958. *See no. 15793 of this list.*
- MEYER, R. P., WOOLLARD, G. P., and STEINHART, J. S. Wisconsin-upper Michigan, 1958-1959. *See no. 15794 of this list.*
- MICHEL, J. G., DEBREMAECKER, J. CL., and DONOHO, P. A direct digitizing seismograph. *See no. 15449 of this list.*
- MILLER, H. J., S. J., ESPINOSA, A. F., and SUTTON, G. H. A transient technique for seismograph calibration. *See no. 15477 of this list.*
15662. MILLER, W. F. Electronic packaging for 5000g survival: *Calif. Inst. Tech., Seis. Lab., Div. Geol. Scis.*, rept. no. 1041, 34 p., Pasadena, Aug., 1961.
15663. MILLER, W. F. Digital seismograph development at Caltech: 456-478 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
- MILLER, W., GURNEY, R. D., LEHNER, F. E., and WITT, E. O. A seismograph for lunar experiments. *See no. 15620 of this list.*
- MIRONOVA, V. I., FROLOVA, A. V., GAL'PERIN, YE. I., and KRASIL'SHCHIKOVA, G. A. Method and techniques of using stereographic projections for solving spatial problems in geometrical seismics. *See no. 15492 of this list.*

15664. MITRA, M. Note on the disturbance produced in an elastic half-space by transient pressure applied over a portion of the boundary: *Proc. Nat. Inst. Sci. India*, v. 28, no. 1, pt. A, 199-205, New Delhi, Jan., 1962.
15665. MIYAKOSHI, J. On the local and anomalous change of geomagnetic declination: *Disaster Prev. Res. Inst. Bull.*, no. 6, 27-38, Kyôto, Oct., 1953.
15666. MIYAKOSHI, J. Study on geomagnetic variation of telluric origin. Part II. On geomagnetic variation associated with earthquakes: *Disaster Prev. Res. Inst. Bull.*, no. 51, 22-45, Kyôto, Feb., 1962.
15667. MIYAMURA, S. Seismicity and geotectonics: (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 15, no. 1, ser. 2, 23-52, Tokyo, Mar., 1962.
15668. MIYAMURA, S. A note on Fennoscandian seismicity: *Geophysica*, v. 7, no. 4, 1-11, Helsinki, 1962.
15669. MIYAMURA, S., HORI, M., AKI, K., MATUMOTO, H., and ANDO, S. Observation of aftershocks of the Kita Mino earthquake, Aug. 19, 1961. Observation at Hachiman, Gifu Prefecture, Central Japan: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 895-908, Tokyo, Dec., 1961.
15670. MIYOSHI, H., and IMADA, T. The land-tied island and the tidal establishments—for the people of Talcahuano (Chile): 52-56 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- MOGI, A., and KAWAMURA, B. On the deformation of the sea bottom in some harbours in the Sanriku coast due to the Chili tsunami. See no. 15568 of this list.
15671. MOGI, K. On the time distribution of aftershocks accompanying the recent major earthquakes in and near Japan: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 107-124, Tokyo, Mar., 1962.
15672. MOGI, K. Study of elastic shocks caused by the fracture of heterogeneous materials and its relations to earthquake phenomena: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 125-173, Tokyo, Mar., 1962.
15673. MOGI, K. The influence of the dimensions of specimens on the fracture strength of rocks: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 1, 175-185, Tokyo, Mar., 1962.
15674. MOMOI, T. On the longitudinal wave velocity in moist granular media, III: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, sec. 2, 267-269, Tokyo, Dec., 1961.
15675. MOMOI, T. Applicability of hole theory on the problem of the earth's core: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, sec. 2, 269-271, Tokyo, Dec., 1961.
15676. MOMOI, T. The viscosity of liquid of the earth's core: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, sec. 2, 272-273, Tokyo, Dec., 1961.
15677. MOMOI, T. On gravity waves caused by vibration of a bottom with a circular form (3 dimensional case): (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 15, no. 1, ser. 2, 1-8, Tokyo, Mar., 1962.
15678. MOMOI, T. On water waves generated by vibrating elliptic wave origin: (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 15, no. 1, ser. 2, 9-22, Tokyo, Mar., 1962.
15679. MOMOI, T. On water waves generated by a vibrating bottom (two dimensional case): (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 15, no. 1, ser. 2, 53-56, Tokyo, Mar., 1962.
15680. MOMOI, T. General method of treating water waves produced by a vibrating bottom with an arbitrary form: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 261-271, Tokyo, June, 1962.
15681. MOMOI, T. An example of application of the general method of treating water waves produced by a vibrating bottom with an arbitrary form: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 273-285, Tokyo, June, 1962.
15682. MOMOI, T. On the directivity of water waves generated by a vibrating elliptic wave source: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 287-295, Tokyo, June, 1962.
15683. MOMOI, T. The directivity of tsunami. I. The case of instantaneously and uniformly elevated elliptic wave origin: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 297-307, Tokyo, June, 1962.
15684. MOMOI, T. General method of treatment of tsunami caused by the displacement of a portion of the bottom with an arbitrary form: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 309-324, Tokyo, June, 1962.
15685. MONAKHOV, F. I. Microseisms at the bottom of the Baltic Sea and in the northern part of the Atlantic Ocean: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 7, 895-907, Moscow, July, 1962. 573-580 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
- MONAKHOV, F. I., KORCHAGINA, O. A., and MESHKOV, M. M. On the frequency selection of oceanic storm microseisms. See no. 15594 of this list.
- MORELLI, C., and CLOSS, H. Seismic experiments in the Dolomites (Lago Lagorai) to investigate the earth's crust in the eastern Alpine area. See no. 15441 of this list.
15686. MORIMOTO, R., and MATSUDA, T. Geology of the area damaged by the Kita Mino earthquake. Part I. The upper reaches of the Uchinami River and the Itoshiro River, Fukui and Gifu Prefectures, Japan: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 935-942, Tokyo, Dec., 1961.
- MUELLER, S., BOLT, B., EWING, M., and LANDISMAN, M. Transient analysis of seismic core phases. See no. 15613 of this list.
- MULFORD, J. W., MACHADO, F., PARSONS, W. H., and RICHARDS, A. F. Capelinhos eruption of Faya volcano, Azores, 1957-1958. See no. 15637 of this list.
15687. MUNK, W., HAUBRICH, R., BACKUS, G. E. Array studies of background noise: 95-124 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15688. MURAI, I., and TSUYA, H. Some notes on the geologic structure of the Kita Mino district: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 909-934, Tokyo, Dec., 1961.
15689. MUSGRAVE, A. W. Applications of the expanding reflection spread: *Geophysics*, suppl., v. 27, no. 6, pt. 2, 981-993, Tulsa, Dec., 1962.
- NAFE, J. E., and KUO, J. T. Period equation for Rayleigh waves in a layer overlying a half space with a sinusoidal interface. See no. 15604 of this list.
15690. NAG, K. R. On "SH" type of motion due to body forces in a semi-infinite elastic medium: (with German summary), *Gerlands Beitr. Geophys.*, v. 70, no. 4, 221-232, Leipzig, 1961.

15691. NAG, K. R. "SH" type of motion due to moving sources in a semi-infinite elastic medium: (with German summary), *Gelands Beitr. Geophys.*, v. 71, no. 2, 97-104, Leipzig, 1962.
15692. NAG, K. R. Generation of Rayleigh waves due to stress-discontinuity in a semi-infinite elastic medium: *Geofis. Pura e Appl.*, v. 52, 115-126, Milan, May-Aug., 1962.
- NAGATA, Y., SUDO, H., TAKEDA, A., and TAKANO, K. Drawing of refraction diagrams and analysis of the Chilean tsunami of May 22, 1960, on a terrestrial globe. *See no. 15808 of this list.*
15693. NAGUMO, S., and KAWASHIMA, T. On the variable area representative of the seismic record section: *Japan Geol. Surv. Bull.*, v. 11, no. 10, 613-618, Kawasaki, 1960. *GEOPHYS. ABSTR.*
- NAGUMO, S., and KAWASHIMA, T. On the interpretation of seismic reflection method. I. Picking of reflections. *See no. 15569 of this list.* *GEOPHYS. ABSTR.*
- NAKAJIMA, N., SAITO, S., OMOTE, S., and KARAKAMA, I. Aftershocks of the Kita Mino earthquake of August 19, 1961. Observations at the Kadohara and the Hirugano stations. *See no. 15715 of this list.*
15694. NAKAMURA, K. The generation of edge waves by cylindrical waves impinging from the outer sea: *Sci. Repts. Tōhoku Univ.*, v. 14, no. 1, 27-40, Sendai, Apr., 1962.
- NAKAMURA, K., TAKAGI, A., EMURA, K., ITO, M., ISHIDA, H., KATO, Y., and SUZUKI, Z. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
15695. NAKAMURA, K., and WATANABE, H. Tsunami forerunner observed in case of the Chile tsunami of 1960: 82-99 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
15696. NAKANO, T., OHYA, M., and TAKEHISA, Y. Relation between tsunami and coastal landforms in case of the Chilean earthquake tsunami, May 24th, 1960: *Japan Geog. Survey Inst. Bull.*, v. 7, pts. 2-4, 131-150, Chiba, Mar., 1962.
15697. NAZAROV, A. G. The tasks of research in the field of seismic resistant construction in the Tadzhik SSR: (in Russian), *Akad. Nauk Tadzhik, SSR Inst. Seismostoykogo Stroitel'stva i Seismologii Trudy*, v. 113, 25-36, Stalinabad, 1959. *GEOPHYS. ABSTR.*
- NENILINA, V. S., BAGDASAROVA, A. M., and KUZ'MINA, N. V. Seismicity of Shemakha zone. *See no. 15371 of this list.*
15698. NEPROCHNOV, YU. P. On the selection of the optimum shot conditions in marine seismic investigations by the method of refracted waves: (in Russian), *Razved. Promyslov. Geofiz.*, no. 35, 12-15, Moscow, 1960. *GEOPHYS. ABSTR.*
- NERSESOV, I. L., KHARIN, D. A., KORIDALIN, E. A., and MASARSKY, S. I. Experience of the instrumental study of local earthquakes. *See no. 15595 of this list.*
15699. NESSE, T. A study of microseisms in Bergen during the I.G.Y. *Univ. Bergen Arbok*, Mat.-Naturv. ser., 18 p., Bergen, 1961.
15700. NEW SCIENTIST
Seismology; opportunities in Edinburgh: v. 13, no. 281, p. 792, London, Apr., 1962.
- NGUYEN-HAI, and BENOIT, R. L'installation de la station seismologique de Nhatrang et l'étude des caractéristiques de l'appareillage. *See no. 15397 of this list.*
15701. NIKITIN, V. N. Techniques and results of *in situ* investigations of the elastic properties of limestone by seismic and ultrasonic methods: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 1045-1055, Moscow, Aug., 1962. 670-676 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15702. NILE, S. W. The Hebgen Lake earthquakes: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 24-30, West Yellowstone, 1960. Also appears in *De Re Metallica*, v. 26, no. 3, 2-12, Butte, 1961. *GEOPHYS. ABSTR.*
- NINAGAWA, S., and TANAKA, A. Geophysical prospecting in the eastern part of Kushiro City, Hokkaido. *See no. 15812 of this list.* *GEOPHYS. ABSTR.*
15703. NISHIMURA, E. Some problems on tilting motion of the ground: *Comm. Obs. Roy. Belg.*, No. 142, Suppl. *Géophys.*, no. 47, 100-110, Brussels, 1958.
15704. NISHIMURA, E. On the continuous observation of the crustal deformation: (in Japanese), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, sec. 2, 260-266, Tokyo, Dec., 1961.
- NISHIMURA, E., and SASSA, K. On phenomena forerunning earthquakes. *See no. 15758 of this list.*
15705. NODENS, J. A. E. Tectonic leads in the coseismal-line spread of the Nevada underground nuclear detonation "Blanca": *Oklahoma Geol. Notes*, v. 21, no. 9, 239-244, Norman, 1961. *GEOPHYS. ABSTR.*
- NORDQUIST, J., and CISTERNAS, A. Programs for determining depth of source using electronic digital computers. *See no. 15437 of this list.*
15706. NORTHRUP, J. Evidence of dispersion in earthquake T phases: *J. Geophys. Res.*, v. 67, no. 7, 2823-2830, Washington, July, 1962.
15707. NORTHRUP, J., and RAITT, R. W. Seaquakes in the Flores Sea: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3584, Washington, Aug., 1962.
15708. NORTHWOOD, E. J. Geophysical case history—Black Hollow Field, Weld County, Colorado: *Geophysics*, suppl., v. 27, no. 6, pt. 2, 994-1006, Tulsa, Dec., 1962.
15709. OBLOGINA, T. I. Some amplitude features of waves in media with steeply dipping interfaces: (in Russian), *Moskov. Univ. Vestnik*, no. 2, 52-60, Moscow, 1961. *GEOPHYS. ABSTR.*
15710. OBLOGINA, T. I. Diffracted seismic waves: 99-120 in N. Rast, *Editor*, *Applied Geophysics*, U.S.S.R., (reported as no. 15739 of this list), *Pergamon Press*, New York, 1962.
15711. OFFSHORE
Electronic filters eliminate seismic "singing": v. 14, no. 6, p. 31, Conroe, 1961. *GEOPHYS. ABSTR.*
Seismic survey underway off Oregon: v. 16, no. 1, p. 19, Conroe, 1961. *GEOPHYS. ABSTR.*
- OHTA, Y., and IIDA, K. On the height of the Chilean tsunami on the Pacific coasts of central Japan and the effect of coasts on the tsunami, particularly on the comparison between the tsunami and those that accompanied the Tōnankai and Nankaidō earthquakes. *See no. 15548 of this list.*
- OHYA, M., TAKEHISA, Y., and NAKANO, T. Relation between tsunami and coastal landforms in case of the Chilean earthquake tsunami, May 24th, 1960. *See no. 15696 of this list.*
15712. OILWEEK
Northern seismic costs cut in half by basic operation: v. 12, no. 11, 20-22, Calgary, 1961. *GEOPHYS. ABSTR.*
15713. OLIVER, J. A worldwide storm of microseisms with periods of about 27 seconds: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 507-517, Berkeley, July, 1962.

15714. OLIVER, J., and ISACKS, B. Seismic waves coupled to sonic booms: *Geophysics*, v. 27, no. 4, 528-530, Tulsa, Aug., 1962.
15715. OMOTE, S., KARAKAMA, I., NAKAJIMA, N., and SAITO, S. Aftershocks of the Kita Mino earthquake of August 19, 1961. Observations at the Kadohara and the Hirugano stations: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 881-893, Tokyo, Dec., 1961.
- ONDA, I., and KISHINOUYE, F. Field studies of the Kita Mino earthquake of August 19, 1961. *See* no. 15583 of this list.
15716. OPDYKE, N. D. Palaeoclimatology and continental drift: 41-65 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
- OSADA, K., and KANAI, K. Seismic characteristics in ground of mountainous formation. Observation of the aftershocks of the Kita Mino earthquake. *See* no. 15562 of this list.
15717. OSAWA, Y. On the damage to buildings during the Kita Mino earthquake of August 19, 1961: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 869-872, Tokyo, Dec., 1961.
15718. OSTENSO, N. A. Geophysical investigations of the Arctic Ocean basin: *Geophys. and Polar Res. Center, Univ. of Wisconsin*, Geol. Dept., Contr. NONR 1202 (16), Res. Rept. Ser. no. 62-4, xvii + 124 p., Madison, June, 1962.
- PAKISER, L. C., and HEALY, J. H. Travel times and propagation paths in the California-Nevada region. *See* no. 15531 of this list.
15719. PAKISER, L. C., HEALY, J. H., and ROLLER, J. C. Crustal structure in the western United States: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3585, Washington, Aug., 1962.
- PARSONS, W. H., RICHARDS, A. F., MULFORD, J. W., and MACHADO, F. Capelinhos eruption of Fajal volcano, Azores, 1957-1958. *See* no. 15637 of this list.
15720. PAYO SUBIZA, G. Nota sobre el metodo grafico E. Carrasco en relacion con su aplicacion a sismos proximos de foco profundo: *Rev. Geofis.*, v. 21, no. 81, 1-14, Madrid, Jan.-Mar., 1962.
- PEASLEE, D. C., and CLEARY, J. R. Amplitude perturbations in Rayleigh waves. *See* no. 15440 of this list.
15721. PĚČ, K. On the structure of the Kuril-Kamchatka region according to Lg wave observations: (in Russian with English summary), *Studia Geophys. et Geod.*, v. 6, no. 3, 281-285, Prague, 1962.
15722. PEERZADA, M. M. Tectonophysics of the Himalayas: *Bull. Geophys.*, College Jean-de-Brebeuf, no. 12, 13-67, Montreal, Oct., 1962.
15723. PESELNICK, L. Elastic constants of solenhofen limestone and their dependence upon density and saturation: *J. Geophys. Res.*, v. 67, no. 11, 4441-4448, Washington, Oct., 1962.
15724. PETERSCHMITT, E. Les enregistrements seismiques des effondrements spontanes du Bassin de Briey: *Rev. Industrie Minérale*, v. 44, no. 4, 1-19, St. Etienne, Apr., 1962.
15725. PETKEVICH, G. I. Schema des types des coupes de sols a stratification de v de la region du synclinal des Pre-carpathes: (in Ukrainian), *Akad. Nauk Ukrayin. RSR Dopovidī*, no. 5, 627-630, Kiev, 1961. BULL. SIGNAL.
15726. PFLUKE, J. H., and HOWELL, B. F., JR. Model studies of first motions produced by an actual fault: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3586, Washington, Aug., 1962.
15727. PHINNEY, R., GILMAN, R., and PRESS, F. Progress report on a short-period rotational seismometer: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, 3586-3587, Washington, Aug., 1962.
15728. PHYSICS TODAY Seismology: v. 15, no. 11, p. 86, New York, Nov., 1962.
15729. PILANT, W. L., and KNOPOFF, L. Observations of multiple seismic events: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3587, Washington, Aug., 1962.
- PINSON, W. H., HURLEY, P. M., HUGHES, H., FAURE, G., and FAIRBAIRN, H. W. Radiogenic strontium-87 model of continent formation. *See* no. 15547 of this list.
15730. POLAR RECORD, THE Canadian Polar Continental Shelf Project, 1959-62: v. 11, no. 72, 270-276, Cambridge, Sept., 1962.
- POMEROY, P., and BRUNE, J. Some effects of source mechanism on character of long period surface waves *See* no. 15415 of this list.
15731. PRESS, F. The technical basis for a research program in detection: 3-23 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15732. PRESS, F., and HARKRIDER, D. Propagation of acoustic-gravity waves in the atmosphere: *J. Geophys. Res.*, v. 67, no. 10, 3889-3908, Washington, Sept., 1962.
- PRESS, F., KOVACH, R. L., and ALLEN, C. R. Geophysical investigations in the Colorado delta region. *See* no. 15596 of this list.
- PRESS, F., PHINNEY, R., and GILMAN, R. Progress report on a short-period rotational seismometer. *See* no. 15727 of this list.
- PRODEHL, CL., DEVISINTINI, G., BEHNKE, CL., and GIESE, P. Seismic refraction investigations in the Dolomites for the exploration of the earth's crust in the eastern Alpine area 1961. *See* no. 15386 of this list.
15733. PROS, Z. An electronic apparatus for precise measurement of the elastic parameters of rocks: (in Russian with Czech and English summary), *Geofis. Sborník*, no. 153, 193-228, Prague, 1962.
15734. PROS, Z., VANĚK, J., and KLÍMA, K. The velocity of elastic waves in diabase and greywacke under pressures up to 4 kilobars: (with Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 4, 347-368, Prague, 1962. A supplement to this paper appears on pages 416a-416d of the above journal.
- PROS, Z., VANĚK, J., and KLÍMA, K. Features of the procedure for measuring elastic wave absorption in rock specimens. *See* no. 15846 of this list.
15735. PROSEN, D. Die geophysikalische Tätigkeit des Instituts für geologische Forschungen in Beograd: 107-136 in T. Dombai, *Editor*, *Papers Read Before the Society of Hungarian Geophysicists at its V. International Symposium*, on the 8-12th September, 1959, (reported as no. 15459 of this list), *Geofiz. Közlem.*, v. 10, nos. 1-4, Budapest, 1962.
- PSHENNIKOV, K. V., and TRESKOV, A. A. Seismicity of the Baykal zone. *See* no. 15827 of this list.
15736. PUCHKOV, S. V. Seismic conditions of Ashkhabad zone: (in Russian), 273-277 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.

15737. PUCHKOV, S. V. Correlation of the velocity of the seismic oscillations of particles with the liquefaction of water-saturated sand: (in Russian), 115-117 in S. V. Medvedev, *Editor*, Problems on Engineering Seismology, (reported as no. 15655 of this list), *AKad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
15738. QURESHY, M. N. Gravimetric-isostatic studies in Colorado: *J. Geophys. Res.*, v. 67, no. 6, 2459-2467, Washington, June, 1962.
- RAITT, R. W., and NORTHROP, J. Seaquakes in the Flores Sea. *See no. 15707 of this list.*
- RANSONE, M. A., and BLAIK, M. Multiple reflections in deep-sea seismic reflection profiles. *See no. 15404 of this list.*
15739. RAST, N., *Editor* Applied Geophysics, U.S.S.R.: 429 p., *Pergamon Press*, New York, 1962. A review by J. L. Soske appears in *Geophysics*, v. 28, no. 1, 115-116, Tulsa, Feb., 1963. A review by S. K. Runcorn appears in *Nature*, v. 197, no. 4867, London, Feb., 1963.
15740. RATNIKOVA, L. I. The recording of converted reflected waves: (in Russian), *AKad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 456-471, Moscow, Apr., 1962. 303-311 in the English edition, *Am. Geophys. Union*, Washington, July, 1962.
- RAYMOND, S. O., HAYWARD, G., HERSEY, J. B., and EDGERTON, H. E. Pingers and thumpers advance deep-sea exploration. *See no. 15537 of this list.*
- GEOPHYS. ABSTR.
15741. REICH, H. Zur Frage der geologischen Deutung seismischer Grenzflächen in den Alpen: (with English summary), *Geol. Rundschau*, v. 50, 465-473, Stuttgart, 1960.
- GEOPHYS. ABSTR.
- REL'TOV, B. F., and KRAYEV, G. A. Attenuation of elastic waves in models of fractures. *See no. 15600 of this list.*
- GEOPHYS. ABSTR.
15742. REZANOV, I. A. The geological interpretation of the Magadan-Kolyma seismic depth-sounding profile: (in Russian), *AKad. Nauk SSSR Izv.*, ser. Geofiz., no. 7, 865-872, Moscow, July, 1962. 555-560 in the English edition, *Am. Geophys. Union*, Washington, Oct., 1962.
- RICE, J. T., and DERESIEWICZ, H. The effect of boundaries on wave propagation in a liquid-filled porous solid. III. Reflection of plane waves at a free plane boundary (general case). *See no. 15453 of this list.*
- RICHARDS, A. F., MULFORD, J. W., MACHADO, F., and PARSONS, W. H. Capelinhos eruption of Fajal volcano, Azores, 1957-1958. *See no. 15637 of this list.*
15743. RICHTER, C. F. Memorial to Beno Gutenberg 1889-1960: *Geol. Soc. Am. Ann. Rept.* 1960, *Proc. Vol.*, 93-104, New York, Feb., 1962.
15744. RINGWOOD, A. E. Mineralogical constitution of the deep mantle: *J. Geophys. Res.*, v. 67, no. 10, 4005-4010, Washington, Sept., 1962.
15745. RINGWOOD, A. E. A model for the upper mantle. Part 2: *J. Geophys. Res.*, v. 67, no. 11, 4473-4477, Washington, Oct., 1962.
15746. RITSEMA, A. R. P and S amplitudes of two earthquakes of the single force couple type: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 723-746, Berkeley, Oct., 1962.
- RITSEMA, A. R., and SCHOLTE, J. G. J. Generation of earthquakes by a volume source with moment. Part III. *See no. 15766 of this list.*
- ROBERTS, P. H., and CHAMALAUN, T. The theory of convection in spherical shells and its application to the problem of thermal convection in the earth's mantle. *See no. 15433 of this list.*
15747. RODRIGUEZ, B., A., ASADA, T., and TUVE, M. A. A note on seismic wave attenuation in the Andes: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3592, Washington, Aug., 1962.
- RODRIGUEZ, B., A., SALGUEIRO, P., D. R., FRICK, G., and TUVE, M. A. Local earthquake special network in the Andes. *See no. 15833 of this list.*
15748. RODRIGUEZ, B., A., STEINHART, J. S., and ASADA, T. The San Agustin fault system of southern Peru: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 793-805, Berkeley, Oct., 1962.
- ROLLER, J. C., PAKISER, L. C., and HEALY, J. H. Crustal structure in the western United States. *See no. 15719 of this list.*
- ROMASHEV, A. N., RULEV, B. G., KHARIN, D. A., SHEMYAKINA, E. I., and KUZ'MINA, N. V. Seismic effect of pin-point blastings in coherent grounds without rocks. *See no. 15608 of this list.*
15749. ROMNEY, C. F. Preliminary seismic results from recent nuclear explosions: 237-258 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15750. ROZOVA, YE. A. Problems of construction in seismic regions: (in Russian), *AKad. Nauk SSSR Vestnik*, v. 31, no. 9, 73-75, Moscow, 1961.
- GEOPHYS. ABSTR.
15751. RUNCORN, S. K., *Editor* Continental Drift: *Inter. Geophys. ser.*, v. 3, 338 p., *Academic Press*, New York and London, 1962. A review by C. R. Longwell appears in *Science*, v. 139, no. 3552, Washington, Jan., 1963. A review by B. D. Loncarevic appears in *Discovery*, v. 24, no. 2, p. 41, London, Feb., 1963.
- RULEV, B. G., KHARIN, D. A., SHEMYAKINA, E. I., KUZ'MINA, N. V., and ROMASHEV, A. N. Seismic effect of pin-point blastings in coherent grounds without rocks. *See no. 15608 of this list.*
15752. RUNCORN, S. K. Palaeomagnetic evidence for continental drift and its geophysical cause: 1-40 in S. K. Runcorn, *Editor*, *Continental Drift*, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
- RUSK, S. K., SCHULTZ, T. C., SITTON, G. A., and DEBREMAECKER, J. CL. The Rice digital seismograph; design and first results. *See no. 15450 of this list.*
- RUSTANOVICH, D. N., and KATS, A. Z. Seismicity of the Sochi region—Krasnaya Plyana region. *See no. 15567 of this list.*
- RYABOI, V. Z., BELOUSOV, V. G., VOL'VOVSKY, B. S., and VOL'VOVSKY, I. S. Experimental investigation of the recording of deep reflected waves. *See no. 15390 of this list.*
- RYABOI, V. Z., SCHRAIBMANN, V. I., and VOL'VOVSKY, I. S. On the nature of the regional gravitational anomalies of the Bukhara-Khiva province and adjacent regions. *See no. 15858 of this list.*
- SAGALOVA, E. A., EVSEEV, S. V., and LEVITSKAYA, A. YA. Seismicity of the Carpathian zone. *See no. 15478 of this list.*
15753. SAHA, B. P., On crustal P* phase at intermediate distances: *J. Geophys. Res.*, v. 67, no. 10, 4099-4101, Washington, Sept., 1962.
- SAITO, M., KOBAYASHI, N., and TAKEUCHI, H. A computer program for studying free oscillations of heterogeneous elastic spheres and surface wave propagations along a free surface of semi-infinite heterogeneous elastic media. *See no. 15810 of this list.*
- SAITO, M., and TAKEUCHI, H. Study of shear velocity distribution in the upper mantle by mantle Rayleigh and Love waves. *See no. 15809 of this list.*
- SAITO, S., OMOTE, S., KARAKAMA, I., and NAKAJIMA, N. Aftershocks of the Kita Mino earthquake of August 19, 1961. Observations at the Kadohara and the Hirugano stations. *See no. 15715 of this list.*

- SALGUEIRO P., D. R., FRICK, G., TUVE, M. A., and RODRIGUEZ B., A. Local earthquake special network in the Andes. *See no.* 15833 of this list.
15754. SANFORD, A. R., and HOLMES, C. R. Microearthquakes near Socorro, New Mexico: *J. Geophys. Res.*, v. 67, no. 11, 4449-4459, Washington, Oct., 1962.
15755. SANTÔ, T. A. Division of the southwestern Pacific area into several regions in each of which Rayleigh waves have the same dispersion characters: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 603-630, Tokyo, Dec., 1961.
15756. SANTÔ, T. A. Dispersion of Love waves along various paths to Japan. Part I: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 631-651, Tokyo, Dec., 1961.
15757. SASA, Y., and IZAKI, A. Analysis and geologic interpretation of sonic survey on the western passage of Tsugaru Strait, Japan. 2.: (in Japanese with English abstr.), *J. Geography*, v. 70, no. 4(723), 181-192, Tokyo, 1961. (Paper no. 1 is reported as no. 15161 of this list). *GEOPHYS. ABSTR.*
15758. SASSA, K., and NISHIMURA, E. On phenomena forerunning earthquakes: *Am. Geophys. Union Trans.*, v. 32, 1-6, Washington, Feb., 1951.
15759. SATÔ, R. Love waves in case the surface layer is variable in thickness: *J. Physics Earth*, v. 9, no. 2, 19-36, Tokyo, 1961.
15760. SATÔ, Y. Analysis of dispersed surface waves: 303-327 in International Symposium on Stress Wave Propagation in Materials, *Interscience Publishers Inc.*, New York and London, 1960. A paper of the same name appears as no. 13023 of this list. *GEOPHYS. ABSTR.*
- SATÔ, Y., and MATUMOTO, T. Phase velocity of long-period Rayleigh and Love waves as observed in the Chilean earthquake of May 22, 1960. *See no.* 15650 of this list.
- SATÔ, Y., SYKES, L., and LANDISMAN, M. Mantle shear wave velocities determined from oceanic Love and Rayleigh wave dispersion. *See no.* 15802 of this list.
15761. SATÔ, Y., and USAMI, T. Basic study on the oscillation of a homogeneous elastic sphere: *Geophys. Mag.*, v. 31, no. 1, Tokyo, Mar., 1962.
I. Frequency of the free oscillations, 15-24.
II. Distribution of displacement, 25-47.
III. Boundary conditions and the generation of elastic waves, 49-62.
- SATÔ, Y., and USAMI, T. Torsional oscillation of a homogeneous elastic spheroid. *See no.* 15481 of this list.
15762. SAVARENsky, YE. F., and DZHIBLADZE, E. A. On the energy of earthquakes of the Great Caucasus: (in Russian), *Akad. Nauk Gruzin. SSR Soobshch.*, v. 18, no. 1, 25-29, Tiflis, 1957. *GEOPHYS. ABSTR.*
15763. SAVARENsky, YE. F., GUBIN, I. E., and KHARIN, D. A., Editors Earthquakes in USSR. Part 1. Equipment, Preparation Methods, and Classification of Earthquakes in the USSR. Part 2. Regional Seismicity: (in Russian), 412 p., *Izd. Akad. Nauk SSSR*, Moscow, 1961. Available in English from the Office of Technical Services, Dept. of Commerce, Washington 25, D.C.
- SAVARENsky, YE. F., and LINDEN, N. A. Seismicity of Kopetdag zone. *See no.* 15630 of this list.
- SAVARENsky, YE. F., and TABULEVICH, V. N. On the question of correlation between microseisms, the meteorological situation and sea roughness. *See no.* 15803 of this list.
15764. SAVILL, R. A., CARPENTER, E. W., and WRIGHT, J. K. The derivation and solution of indicator equations for seismometer-galvanometer combinations including the effect of seismometer inductance: *Geophys. J.*, v. 6, no. 4, 409-425, London, June, 1962. An abstract appears in *Geophys. Prospecting*, v. 10, no. 4, p. 560, The Hague, Dec., 1962.
- SAVILL, R. A., WRIGHT, J. K., and CARPENTER, E. W. The dependence of seismic signal amplitudes on the size of underground explosions. *See no.* 15424 of this list.
- SCHELL, R., GILBERT, F., LASTER, S. J., and BACKUS, M. M. Observation of pulses on an interface. *See no.* 15499 of this list.
- SCHMIDT, G., SEELIS, K.-H., and KREY, T. Concerning the possibilities of extending the penetration possible with seismic reflection methods. *See no.* 15601 of this list.
15765. SCHOLTE, J. G. J. The mechanism at the focus of an earthquake: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 711-721, Berkeley, Oct., 1962.
15766. SCHOLTE, J. G. J., and RITSEMA, A. R. Generation of earthquakes by a volume source with moment: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 747-765, Berkeley, Oct., 1962.
- SCHRAIBMANN, V. I., VOL'VOVSKY, I. S., and RYABOJ, V. Z. On the nature of the regional gravitational anomalies of the Bukhara-Khiva province and adjacent regions. *See no.* 15858 of this list.
15767. SCHULZ, G. Der mittlere Fehler bei Geschwindigkeitsberechnungen aus der Krümmung von Reflexionen: *Zeitschr. Geophys.*, v. 28, no. 3, 127-136, Würzburg, 1962.
- SCHULTZ, T. C., SITTON, G. A., DEBREMAECKER, J. CL., and RUSK, S. K. The Rice digital seismograph; design and first results. *See no.* 15450 of this list.
15768. SCIENCE NEWS LETTER
Scientists help test ban talks: v. 82, no. 4, p. 56, Washington, July 28, 1962.
Underwater network to detect A-bombs: v. 82, no. 5, p. 73, Washington, Aug. 4, 1962.
Worldwide seismic storm caused by ocean waves: v. 82, no. 5, p. 73, Washington, Aug. 4, 1962.
Nuclear detection sites can be drastically cut: v. 82, no. 6, p. 88, Washington, Aug. 11, 1962. (A paper on this subject by Peter Stubbs is listed as no. 15798 of this list).
No quakes at South Pole: v. 28, no. 7, p. 103, Washington, Aug. 18, 1962.
Big quake expected; earth reels in shock: v. 82, no. 7, p. 103, Washington, Aug. 18, 1962.
Disaster toll still high: v. 82, no. 12, p. 189, Washington, Sept. 22, 1962.
"Singing earth" theory claimed for tiny shocks: v. 82, no. 12, p. 189, Washington, Sept. 22, 1962. (A paper by L. D. Leet and F. J. Leet on this subject is listed as no. 15618 of this list).
Iranian shock "small"; bigger quake to come: v. 82, no. 14, p. 225, Washington, Oct. 6, 1962.
Computer-seismograph makes quake library: v. 82, no. 17, p. 275, Washington, Oct. 27, 1962.
15769. SCOTT, W. G. Special antenna for a moon capsule: *Electronics*, v. 35, no. 46, 46-49, New York, Nov., 1962.
- SEELIS, K.-H., KREY, T., and SCHMIDT, G. Concerning the possibilities of extending the penetration possible with seismic reflection methods. *See no.* 15601 of this list.
15770. SENGBUsh, R. L. Stratigraphic trap study in Cottonwood Creek field, Big Horn Basin, Wyoming: *Geophysics*, v. 27, no. 4, 427-444, Tulsa, Aug., 1962.

15771. SEYA, K. On an influence of anisotropy in a seismic refraction method: (in Japanese with English abstr.), *Butsuri-Tankō*, v. 13, no. 2, 89–95, Kawasaki, 1960.
GEOPHYS. ABSTR.
- SHAMIN, V. M., KIRILLOV, F. A., and MEDVEDEV, S. V. Results of seismic investigations on the effect of explosions on buildings. *See no. 15579* of this list.
15772. SHAMINA, O. G., and LEBEDEVA, F. V. Converted waves on models of the earth's crust and mantle: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, Moscow, May, 1962. 399–403 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15773. SHEBALIN, N. V. Shock intensity, magnitude and depth of the earthquake focus: (in Russian). 126–138 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- SHEBALIN, N. V., KIRNOS, D. P., and KHARIN, D. A. Development history of instrumental seismic observations in SSSR. *See no. 15581* of this list.
- SHEMYAKINA, E. I., KUZ'MINA, N. V., ROMASHEV, A. N., RULEV, B. G., and KHARIN, D. A. Seismic effect of pin-point blastings in coherent grounds without rocks. *See no. 15608* of this list.
- SHENGELAYA, G. Sh., and BALAVADZE, B. K. Basic features of the structure of the earth's crust in the Greater Caucasus based on gravimetric data. *See no. 15377* of this list.
15574. SHERWOOD, J. W. C., and SPENCER, T. W. Signal-to-noise ratio and spectra of explosion-generated Rayleigh waves: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 573–594, Berkeley, July, 1962.
15775. SHIMA, E. Modifications of seismic waves in superficial soil layers as verified by comparative observations on and beneath the surface: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 187–259, Tokyo, June, 1962.
15776. SHIMIZURU, D. Volcanic microseisms—discussion on the origin: (in Japanese with English abstr.), *Volcanol. Soc. Japan Bull.*, ser. 2, v. 5, no. 3, 154–162, Tokyo, 1961.
GEOPHYS. ABSTR.
15777. SHIMIZURU, D. Temperature distribution and the possibility of the existence of magma pocket in the upper mantle of the earth: (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, ser. 2, 227–242, Tokyo, Dec., 1961.
15778. SHNEIDEROV, A. J. Radioactively induced stratification and discontinuity zones of the earth: *Boll. Geofisica, teor. ed appl.*, v. 4, no. 13, 94–96, Trieste, Mar., 1962.
15779. SHURBET, D. H. Note on use of a Sofar geophone to determine seismicity of regional oceanic areas: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 689–691, Berkeley, July, 1962.
15780. SHURBET, D. H. The high frequency P and S phases from the West Indies: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 957–962, Berkeley, Oct., 1962.
15781. SHUSHAKOV, S. D. Multiple reflected waves: 75–98 in N. Rast, *Editor*, Applied Geophysics, U.S.S.R., (reported as no. 15739 of this list), *Pergamon Press*, New York, 1962.
- SIKHARULIDZE, D. I., and TSKHAKAYA, A. D. Earthquake in the upper Megrel, December 25, 1955. *See no. 15832* of this list.
GEOPHYS. ABSTR.
- SILVERMAN, D., and MARTNER, S. T. Broomstick distributed charge. *See no. 15644* of this list.
15782. SIMA, H. On the velocity of Lg waves in Japan: (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 27, no. 1, 1–6, Tokyo, July, 1962.
- SITTON, G. A., DEBREMAECKER, J. CL., RUSK, S. K., and SCHUTZ, T. C. The Rice digital seismograph; design and first results. *See no. 15450* of this list.
15783. SMITH, N. J. Geophysical activity in 1961: *Geophysics*, v. 27, no. 6, pt. 1, 859–886, Tulsa, Dec., 1962.
- SMITH, T. J., MCCAMY, K., and MEYER, R. P. Generally applicable solutions of Zoepritz' amplitude equations. *See no. 15653* of this list.
- SMITH, T. J., MEYER, R. P., and STEINHART, J. S. Theoretical background. *See no. 15795* of this list.
15784. SOLOV'EV, S. L. Magnitude of the quakes: (in Russian), 83–102 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15785. SOLOV'EV, S. L. General survey of the seismicity in SSSR: (in Russian), 165–210 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, Earthquakes in USSR, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
- SPENCER, T. W., and SHERWOOD, J. W. C. Signal-to-noise ratio and spectra of explosion-generated Rayleigh waves. *See no. 15774* of this list.
15786. STAKHOVSKAYA, Z. I. Research into elasticity and strength of rocks by the bending method under a high confining pressure: (in Russian), 25–35 in M. P. Volarovich, *Editor*, Physical Characteristics of Rocks under High Pressure, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.
15787. STAUDER, W., S. J. S-wave studies of earthquakes of the north Pacific. Part I. Kamchatka: *Sismol. Soc. Am. Bull.*, v. 52, no. 3, 527–550, Berkeley, July, 1962.
15788. STAUDER, W., S. J. The focal mechanism of earthquakes: 1–76 in H. E. Landsberg and J. Van Mieghem, *Editors*, Advances in Geophysics, (reported as no. 15614 of this list), Academic Press, New York and London, 1962.
15789. STAUDER, W., S. J., and KISSLINGER, C. Some P and S wave studies of the mechanism of earthquakes and small chemical explosions: 125–129 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15790. STEINHART, J. S. The continental crust from explosions; a review: 7–73 in J. S. Steinhart, and R. P. Meyer, *Editors*, Explosion Studies of Continental Structure, (reported as no. 14461 of this list), Carnegie Inst. of Washington, Washington, July, 1961.
- STEINHART, J. S., ASADA, T., and RODRIGUEZ B., A. The San Agustin fault system of southern Peru. *See no. 15748* of this list.
- STEINHART, J. S., BONINI, W. E., and MEYER, R. P. Montana, 1959. *See no. 15659* of this list.
- STEINHART, J. S., and GREEN, R. Main seismic experiment; the apparent velocity of the P phase across short spreads. *See no. 15506* of this list.
- STEINHART, J. S., and GREEN, R. On crustal structure deduced from seismic time-distance curves. *See no. 15507* of this list.
- STEINHART, J. S., HOWELL, B. F., JR., BONINI, W. E., FAHLQUIST, D. A., ALDRICH, L. T., and MEYER, R. P. Cooperative maine experiment in crustal seismology; methods and application of fixed linear recording arrays to crustal measurements. *See no. 15660* of this list.

15791. STEINHART, J. S., and MEYER, R. P. Minimum statistical uncertainty of the seismic refraction profile: 126-156 in J. S. Steinhart, and R. P. Meyer, *Editors*, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
- STEINHART, J. S., and MEYER, R. P. Instrumentation and field problems. *See no. 15658 of this list.*
15792. STEINHART, J. S., MEYER, R. P., HOWELL, B. F., JR., FAHLQUIST, D. A., BONINI, W. E., and ASADA, T. Maine seismic experiment; general crustal results: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3601, Washington, Aug., 1962.
15793. STEINHART, J. S., MEYER, R. P., and WOOLLARD, G. P. Arkansas-Missouri, 1958: 226-247 in J. S. Steinhart, and R. P. Meyer, *Editors*, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
15794. STEINHART, J. S., MEYER, R. P., and WOOLLARD, G. P. Wisconsin-upper Michigan, 1958-1959: 248-304 in J. S. Steinhart, and R. P. Meyer, *Editors*, *Explosion Studies of Continental Structures*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
15795. STEINHART, J. S., SMITH, T. J., and MEYER, R. P. Theoretical background: 74-125 in J. S. Steinhart, and R. P. Meyer, *Editors*, *Explosion Studies of Continental Structure*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
15796. STEINHART, J. S., and WOOLLARD, G. P. Seismic evidence concerning continental structure: 344-383 in J. S. Steinhart, and R. P. Meyer, *Editors*, *Explosion Studies of Continental Structures*, (reported as no. 14461 of this list), *Carnegie Inst. of Washington*, Washington, July, 1961.
- STEINHART, J. S., WOOLLARD, G. P., and MEYER, R. P. Central plateau, Mexico, 1957. *See no. 15661 of this list.*
- STELZNER, J., and VANĚK, J. Amplitudenkurven der seismischen Raumwellen. *See no. 15847 of this list.*
- STEPHENS, E., JR., and HAMILTON, J. H. New developments in seismological instrumentation. *See no. 15525 of this list.*
15797. STEPHENSON, L. P., and TOOLEY, R. D. Discussion of "Effect of porosity, grain contacts, and cement on compressional wave velocity through synthetic sandstones," by A. Viksne, J. W. Berg, Jr., and K. L. Cook, *Geophysics*, v. 26, no. 1, 77-84, Feb., 1961, (reported as no. 13972 of this list), and reply by the authors, *Geophysics*, v. 27, no. 5, 720-724, Tulsa, Oct., 1962. A correction to reply by authors appears in *Geophysics*, v. 28, no. 1, p. 114, Tulsa, Feb., 1963.
15798. STUBBS, P. Simpler detection of underground bomb tests: *New Scientist*, no. 297, 186-188, London, July, 1962.
- SUBRAHMANYAM, Y., and BALAKRISHNA, S. Variation of ultrasonic velocities in charnockites. *See no. 15376 of this list.*
- SUDO, H., TAKEDA, A., TAKANO, K., and NAGATA, Y. Drawing of refraction diagrams and analysis of the Chilean tsunami of May 22, 1960, on a terrestrial globe. *See no. 15808 of this list.*
15799. SUTTON, G. H. Long period seismographs and long period noise: 411-441 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
- SUTTON, G. H., EWING, M., and ALSOP, L. E. Free oscillations of the earth observed on pendulum seismographs. *See no. 15357 of this list.*
- SUTTON, G. H., MILLER, H. J., S. J., and ESPINOSA, A. F. A transient technique for seismograph calibration. *See no. 15477 of this list.*
15800. SUZUKI, T. On the velocity of elastic waves in a porous medium: (in Japanese with English abstr.), *Butsuri-Tankō*, v. 13, no. 3, 147-159, Kawasaki, 1960.
- GEOPHYS. ABSTR.
15801. SUZUKI, Z., and ISHIDA KAWAI, H. Model experiments on flexural waves within a plate of varying thickness in the direction perpendicular to path: *Sci. Repts. Tōhoku Univ.*, ser. 5 *Geophys.*, v. 14, no. 2, 57-64, Sendai, Aug., 1962.
- SUZUKI, Z., NAKAMURA, K., TAKAGI, A., EMURA, K., ITO, M., ISHIDA, H., and KATO, Y. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
15802. SYKES, L., LANDISMAN, M., and SATŌ, Y. Mantle shear wave velocities determined from oceanic Love and Rayleigh wave dispersion: *J. Geophys. Res.*, v. 67, no. 13, 5257-5271, Washington, Dec., 1962.
- TABATA, T., KAWAMURA, T., and KAMETANI, T. Checking deep reflection phases by vertical spread. *See no. 15560 of this list.*
- GEOPHYS. ABSTR.
15803. TABULEVICH, V. N., and SAVARENsky, YE. F. On the question of correlation between misseisms, the meteorological situation and sea roughness: (with Russian summary), *Studia Geophys. et Geod.*, v. 6, no. 4, 331-339, Prague, 1962.
- TAGGART, J., BROWN, C. F., JR., and HERRIN, E. Machine computation of earthquake hypocenters. *See no. 15536 of this list.*
- TAGGART, J., and HERRIN, E. Tables of seismological co-latitude. *See no. 15535 of this list.*
- TAKAGI, A., EMURA, K., ITO, M., ISHIDA, H., KATO, Y., SUZUKI, Z., and NAKAMURA, K. The Chile tsunami of May 24, 1960, observed along the Sanriku coast, Japan. *See no. 15566 of this list.*
15804. TAKAHASHI, T. The dispersion of Love waves in heterogeneous half-space overlain by a homogeneous layer: *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 811-822, Tokyo, Dec., 1961.
15805. TAKAHASHI, T. Dispersion curves for the higher modes of surface waves in heterogeneous media: *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 823-830, Tokyo, Dec., 1961.
15806. TAKAHASI, R., *Editor* The Chilean Tsunami of May 24, 1960: ii + 397 p., *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961. Available from Maruzen Co., Ltd., Nihonbashi-dori, Chuo-ku, Tokyo.
15807. TAKAHASI, R., and HATORI, T. A summary report on the Chilean tsunami of May 1960: 23-34 in R. Takahasi, *Editor*, *The Chilean Tsunami of May 24, 1960*, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- TAKANO, K., MATUZAWA, T., ASADA, T., and DEN, N. Tripartite observations of microseisms. *See no. 15651 of this list.*
15808. TAKANO, K., NAGATA, Y., SUDO, H., and TAKEDA, A. Drawing of refraction diagrams and analysis of the Chilean tsunami of May 22, 1960, on a terrestrial globe: 46-51 in R. Takahasi, *Editor*, *The Chilean Tsunami of May 24, 1960*, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- TAKEDA, A., TAKANO, K., NAGATA, Y., and SUDO, H. Drawing of refraction diagrams and analysis of the Chilean tsunami of May 22, 1960, on a terrestrial globe. *See no. 15808 of this list.*

- TAKEHISA, Y., NAKANO, T., and OHYA, M. Relation between tsunami and coastal landforms in case of the Chilean earthquake tsunami, May 24th, 1960. *See no. 15696 of this list.*
15809. TAKEUCHI, H., and SAITO, M. Study of shear velocity distribution in the upper mantle by mantle Rayleigh and Love waves: *J. Geophys. Res.*, v. 67, no. 7, 2831–2839, Washington, July, 1962.
15810. TAKEUCHI, H., SAITO, M., and KOBAYASHI, N. A computer program for studying free oscillations of heterogeneous elastic spheres and surface wave propagations along a free surface of semi-infinite heterogeneous elastic media: (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, ser. 2, 217–226, Tokyo, Dec., 1961.
15811. TAL'BIISKY, B. B. Use of seismic prospecting in the Bukhoro-Khivin oil-gas province: (in Russian), *Vses. Nauchno-Issled. Geologorazved. Neft. Inst. Trudy*, no. 30, 73–78, Moscow, 1961. GEOPHYS. ABSTR.
15812. TANAKA, A., and NINAGAWA, S. Geophysical prospecting in the eastern part of Kushiro City, Hokkaido: (in Japanese with English abstr.), *Japan Geol. Surv. Bull.*, v. 11, no. 8, 503–518, Kawasaki, 1960. GEOPHYS. ABSTR.
15813. TANAKA, T. An instrument for brief measurement of the natural period of a building: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 40, pt. 2, 325–332, Tokyo, June, 1962.
15814. TANAKA, Y. Contingency of the occurrence of earthquakes in earthquake swarms: (in Japanese with English abstr.), *Quart. J. Seismol.*, v. 27, no. 1, 7–15, Tokyo, July, 1962.
15815. TANEDA, S. "Chile tsunami" in the Okinawa Islands: 77–81 in R. Takahasi, *Editor*, The Chilean Tsunami of May 24, 1960, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
15816. TANER, D. Sur la structure de la croûte terrestre en Grèce, en Mer Egée et auprès des côtes occidentales de la Turquie: *Annales Géophys.*, v. 18, no. 3, 291–293, Paris, July–Sept., 1962.
- TARAKANOV, R. Z., and KONDORSKAYA, N. V. Kurile-Kamchatka earthquakes. *See no. 15591 of this list.*
15817. TÁRCZY-HORNOCH, A. Zur Ermittlung der bestanschmiedenden Ebene zu einer Anzahl von, aus Erdbeben bestimmten Richtungen: (with German and English summary), *Geofis Pura e Appl.*, v. 52, 53–58, Milan, May–Aug., 1962. (This paper bears on questions raised by Ritsema and Scholte in a paper reported as no. 14408 of this list.)
15818. TAZIEFF, H. Interprétation des glissements de terrain accompagnant le grand séisme du Chili: *Soc. Belge Géologie, Paléontologie et Hydrologie Bull.*, v. 69, no. 3, 374–384, Brussels, 1960(1961). GEOPHYS. ABSTR.
15819. TAZIME, K., and HAMADA, K. Transition from dispersive Rayleigh waves to sound waves in a layer overlying a liquid half space: (in Japanese with English summary), *Zisin, J. Seismol. Soc. Japan*, v. 14, no. 4, sec. 2, 243–253, Tokyo, Dec., 1961.
15820. TEPLITSKY, V. A. Some results of seismic prospecting operations within the Bukhoro-Gazly and Chardzhou-Pitnyak zones: (in Russian), *Vses. Nauchno-Issled. Geologorazved. Neft. Inst. Trudy*, no. 30, 79–82, Moscow, 1961. GEOPHYS. ABSTR.
15821. TEUPSER, C. Die Eichung und Prüfung von elektrodynamischen Seismographen: *Freiberger Forschung.*, v. 130, 103 p., Berlin, Apr., 1962.
15822. THIRLAWAY, H. I. S. A summary of research in the United Kingdom on the detection of underground explosions: 259–283 in *Proceedings of the Colloquium on Detection of Underground Nuclear Explosions*, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15823. THOMSON, A. A., and EVISON, F. F. Thickness of the earth's crust in New Zealand: *New Zealand J. Geol. Geophys.*, v. 5, no. 1, 29–45, Wellington, Feb., 1962.
15824. TILLOTSON, E. Earthquake swarm in Chile beginning in May, 1960: *Nature*, v. 195, no. 4843, 763–764, London, Aug., 1962. An abstract appears in *Geophys. Prospecting*, v. 10, no. 4, p. 558, The Hague, Dec., 1962.
- TOKSÖZ, M. N., and BEN-MENAHEM, A. Source mechanism from spectra of seismic waves—theory and experiment. *See no. 15396 of this list.*
15825. TOMASHEVSKAYA, I. S. Research into shear modulus in rock samples by the torsion method under high confining pressures: (in Russian), 36–42 in M. P. Volarovitch, *Editor*, *Physical Characteristics of Rocks under High Pressure*, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.
- TOMASHEVSKAYA, I. S., and VOLAROVICH, M. P. A new method for the determination of strength of shear in rocks. *See no. 15855 of this list.*
15826. Tominaga, M. Secondary undulations in Miyako Bay accompanied by Chile tsunami: (with Japanese abstr.), 126–128 in R. Takahasi, *Editor*, *The Chilean Tsunami of May 24, 1960*, (reported as no. 15806 of this list), *The Committee for Field Investigation of the Chilean Tsunami of 1960*, Tokyo, Dec., 1961.
- TOOLEY, R. D., and STEPHENSON, L. P. Discussion of "Effect of porosity, grain contacts, and cement on compressional wave velocity through synthetic sandstones," by A. Viksne, J. W. Berg, Jr., and K. L. Cook, and reply by the authors. *See no. 15797 of this list.*
- TRESKOV, A. A., and MASARSKY, S. I. Preparation methods of the instrumental observations. *See no. 15647 of this list.*
15827. TRESKOV, A. A., and PSHENNICKOV, K. V. Seismicity of the Baikal zone. (in Russian), 353–361 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15828. TROEY, A. W. Theoretical seismograms with frequency and depth dependent absorption: *Geophysics*, v. 27, no. 6, pt. 1, 766–785, Tulsa, Dec., 1962.
- TRUBITSYN, V. P., EGOROV, N. N., and KALININ, V. A. Absorption of the Rayleigh waves in a layer on half-space. *See no. 15470 of this list.*
15829. TSEITLIN, YA. I., and ERSHOV, I. A. Reduction of the seismic effect of delay-action blastings: (in Russian), 103–114 in S. V. Medvedev, *Editor*, *Problems of Engineering Seismology*, (reported as no. 15655 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 21(188), Moscow, 1962.
15830. TSKHAKAYA, A. D. Seismicity of Dzhavakhet (Akhalkalak) highland: (in Russian), 240–249 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15831. TSKHAKAYA, A. D. Depths of Caucasian earthquakes: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 577–584, Moscow, May, 1962. 379–383 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
- TSKHAKAYA, A. D., BYUS, E. I., LEBEDEVA, T. M., and LEVITSKAYA, A. YA. Seismicity of Caucasus. *See no. 15420 of this list.*

15832. TSKHAKAYA, A. D., and SIKHARULIDZE, D. I. Earthquake in the upper Megrel, December 25, 1955: (in Russian), *Akad. Nauk Gruzin. SSR Soobshch.*, v. 20, no. 1, 27-34, Tiflis, 1958. GEOPHYS. ABSTR.
- TSUYA, H., and MURAI, I. Some notes on the geologic structure of the Kita Mino district. *See* no. 15688 of this list.
- TUVE, M. A., RODRIGUEZ B., A., and ASADA, T. A note on seismic wave attenuation in the Andes. *See* no. 15747 of this list.
15833. TUVE, M. A., RODRIGUEZ B., A., SALGUEIRO P., D. R., and FRICK, G. Local earthquake special network in the Andes: (abstr. only), *J. Geophys. Res.*, v. 67, no. 9, p. 3605, Washington, Aug., 1962.
15834. UFFEN, R. J. S.C.U.M.: *Physics in Canada*, v. 17, no. 2, 23-31, Ottawa, 1961.
15835. UFFEN, R. J. Some Canadian contributions to the International Upper Mantle Project: *Canadian Mining and Metall. Bull.*, 1-4, Montreal, July, 1962.
15836. UFFEN, R. J. The Canadian scientific committee for the Upper Mantle Project: *Am. Geophys. Union Trans.*, v. 43, no. 3, 293-298, Washington, Sept., 1962.
15837. U.G.G.I. MONOGRAPHS
No. 15 Report of the UNESCO Seismological Survey Mission to South East Asia, Paris, Jan., 1962.
No. 17 Report of the UNESCO Seismological Survey Mission to South America, Paris, Aug., 1962.
No. 18 Report of the UNESCO Seismological Survey Mission to the Mediterranean and Middle East, Paris, Oct., 1962.
15838. UNITED ELECTRODYNAMICS, INC., UNITED EARTH SCIENCES DIV.
"SMALL BOY": Long range seismic measurements, Proj. 8.4, July 14, 1962, prepared for AFTAC, Contr. AF 33(657)-7427 VT/2037, DATDC Rept. no. 37, Alexandria, Oct., 31, 1962.
15839. URUPOV, A. K. On the conversion of effective velocities into mean formation velocities for the case of a two-layered medium: (in Russian), *Priklad. Geofiz.*, no. 30, 79-91, Moscow, 1961. GEOPHYS. ABSTR.
15840. USAMI, T. Some remarks on the solutions of the equation of motion for a homogeneous and isotropic elastic medium; especially on the uniqueness of the solution for boundary value problem in a infinite elastic medium: *Geophys. Mag.*, v. 31, no. 1, 1-13, Tokyo, Mar., 1962.
- USAMI, T., and SATÔ, Y. Basic study on the oscillation of a homogeneous elastic sphere. *See* no. 15761 of this list.
15841. USAMI, T., and SATÔ, Y. Torsional oscillation of a homogeneous elastic spheroid: *Seismol. Soc. Am. Bull.*, v. 52, no. 3, 469-484, Berkeley, July, 1962.
15842. USHER, M. J. Elastic behaviour of rocks at low frequencies: *Geophys. Prospecting*, v. 10, no. 2, 119-127, The Hague, June, 1962.
15843. UYEDA, S., and YABU, T. Some experiments on thermal shock fracture of rocks: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 593-601, Tokyo, Dec., 1961.
15844. VACQUIER, V. Magnetic evidence for horizontal displacements in the floor of the Pacific Ocean: 135-144 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), *Academic Press.*, New York and London, 1962.
15845. VAILE, R. B., JR. Aftershock studies: 350-371 in Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, (reported as no. 15851 of this list), *Acoustic and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15846. VANĚK, J., KLÍMA, K., and PROS, Z. Features of the procedure for measuring elastic wave absorption in rock specimens: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 603-609, Moscow, May, 1962, 395-398 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
- VANĚK, J., KLÍMA, K., and PROS, Z. The velocity of elastic waves in diabase and greywacke under pressures up to 4 kilobars. *See* no. 15734 of this list.
15847. VANĚK, J., and STELZNER, J. Amplitudenkurven der seismischen Raumwellen: (with English summary), *Gelands Beitr. Geophys.* v. 71, no. 2, 105-119, Leipzig, 1962.
- VAN HAMM, J., BIRKENHAUER, H. F., and ENNIS, R., JR. Statistical evaluation of quarry blast parameters. *See* no. 15403 of this list.
- VAN MIEGHEM, J., and LANDSBERG, H. E., *Editors* Advances in Geophysics, Vol. 9. *See* no. 15614 of this list.
15848. VARTANOV, S. P., and KORNEV, V. A. New data on the geological structure of the northern Caspian (based on the results of marine seismic investigations): (in Russian), *Akad. Nauk SSSR Dokl.*, sec. Earth Scis., v. 136, nos. 1-6, 1172-1175, Moscow, Jan.-Feb., 1961, 110-112 in the English edition, *Am. Geol. Inst.*, Washington, Sept., 1962.
15849. VASSIL'EV, YU. I. Two summaries of the attenuation constants of elastic vibrations in rocks: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 595-602, Moscow, May, 1962, 390-394 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15850. VENING MEINESZ, F. A. Thermal convection in the earth's mantle: 145-176 in S. K. Runcorn, *Editor*, Continental Drift, (reported as no. 15751 of this list), *Academic Press*, New York and London, 1962.
15851. VESIAC STAFF Proceedings of the Colloquium on Detection of Underground Nuclear Explosions: Spec. Rept. 4410-36-X, Contr. SD-78, vi + 478 p., *Acoustics and Seismic Lab., Inst. of Sci. and Tech., Univ. of Michigan*, Ann Arbor, Aug., 1962.
15852. VETCHINKIN, A. N. An electronic seismograph with capacitance pickup: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 485-490, Moscow, Apr., 1962, 320-323 in the English edition, *Am. Geophys. Union*, Washington, July, 1962.
- VIVET, R., and LLIBOUTRY, L. Épaisseurs de glace et débit solide de la Vallée Blanche supérieure (Massif du Mont-Blanc). *See* no. 15631 of this list. GEOPHYS. ABSTR.
15853. VOLAROVICH, M. P., *Editor* Physical Characteristics of Rocks under High Pressure: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), 106 p., Moscow, 1962.
15854. VOLAROVICH, M. P. Research into elasticity of rocks at high confining pressures: (in Russian), 7-18 in M. P. Volarovich, *Editor*, Physical Characteristics of Rocks under High Pressures, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.
15855. VOLAROVICH, M. P., and TOMASHEVSKAYA, I. S. A new method for the determination of strength of shear in rocks: (in Russian), 43-49 in M. P. Volarovich, *Editor*, Physical Characteristics of Rocks under High Pressure, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.

15856. VOLAROVICH, M. P., and WEI-CH'ING, F. Research into elasticity of rocks by the static and dynamic methods at high confining pressures: (in Russian), 19-24 in M. P. Volarovich, *Editor*, Physical Characteristics of Rocks under High Pressures, (reported as no. 15853 of this list), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 23(190), Moscow, 1962.
15857. VOL'VOVSKY, B. S., and VOL'VOVSKY, I. S. Seismic investigation along the research regional profile Amu Dar'ya (Karabekaul)-Nuratau (Koytash): (in Russian), *Akad. Nauk Turkmen. SSSR Izv.*, no. 3, 28-34, Ashkhabad, 1961. *GEOPHYS. ABSTR.*
- VOL'VOVSKY, B. S., VOL'VOVSKY, I. S., RAYBOI, V. Z., and BELOUSSOV, V. G. Experimental investigation of the recording of deep reflected waves. *See no. 15390* of this list.
- VOL'VOVSKY, I. S., RYABOI, V. Z., BELOUSSOV, V. G., and VOL'VOVSKY, B. S. Experimental investigation of the recording of deep reflected waves. *See no. 15390* of this list.
- VOL'VOVSKY, I. S., and VOL'VOVSKY, B. S. Seismic investigation along the research regional profile Amu Dar'ya (Karabekaul)-Nuratau (Koytash). *See no. 15857* of this list. *GEOPHYS. ABSTR.*
15858. VOL'VOVSKY, I. S., RYABOI, V. Z., and SCHRAIBMANN, V. I. On the nature of the regional gravitational anomalies of the Bukhara-Khiva province and adjacent regions: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 644-651, Moscow, May, 1962. 418-422 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15859. VOSKRESENSKY, Yu. N. The study of seismic reflections from nonspecular boundaries in three-dimensional models: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 5, 620-629, Moscow, May, 1962. 404-409 in the English edition, *Am. Geophys. Union*, Washington, Sept., 1962.
15860. VVEDENSKAYA, N. A. Earthquakes of Central Asia: (in Russian), 278-313 in Ye. F. Savarensky, I. E. Gubin, and D. A. Kharin, *Editors*, *Earthquakes in USSR*, (reported as no. 15763 of this list), *Izd. Akad. Nauk SSSR*, Moscow, 1961.
15861. WAALEWIJN, A. Crustal movements in the Netherlands: *Bull. Geod.*, no. 62, 369-374, Paris, Dec., 1961.
15862. WACHHOLZ, H. Über den Zusammenhang zwischen Schallgeschwindigkeit und Porosität bei Erdschichten: *Geophys. Prospecting*, v. 10, no. 3, 352-402, The Hague, Sept., 1962.
- WATANABE, H., and NAKAMURA, K. Tsunami forerunner observed in case of the Chile tsunami of 1960. *See no. 15695* of this list.
15863. WATERS, A. C. Obituary—Bailey Willis: *Geol. Soc. Am. Bull.*, v. 73, no. 7, 55-72, New York, July, 1962.
15864. WEBER, M. Zur Interpretation von seismischen Refraktionsmessungen mit abgebrochenen Potenzreihen: (with English summary), *Geofis. Pura e Appl.*, v. 52, 7-14, Milan, May-Aug., 1962.
15865. WEBER, M. Eine elementare Verallgemeinerung der Ansätze von Mohorovičić, Wiechert et al. in der Laufzeitseismik: *Geofis. Pura e Appl.*, v. 52, 15-19, Milan, May-Aug., 1962.
- WEI-CH'ING, F., and VOLAROVICH, M. P. Research into elasticity of rocks by the static and dynamic methods at high confining pressures. *See no. 15856* of this list.
15866. WEIZMANN INSTITUTE OF SCIENCE, THE Report of Scientific Activities 1960-1961: 151 p., Rehovoth, 1962. P. 8 of this report contains a summary of past and proposed future seismic work.
15867. WESTHUSING, K. Project GNOME volunteer seismological teams: *The Geotechnical Corp.*, Tech. Rept. no. 62-5, Contr. AF 33(600)-41694, Proj. VT/074, iii + 57 p., Garland, Mar., 1962.
15868. WHITE, M. M. Displacement curves associated with transient accelerations from an impact machine: *Earthquake Notes*, v. 33, nos. 1-2, 12-23, Washington, Mar.-June, 1962.
15869. WIGGINS, J. H., JR. Note on the effect of record balancing upon strong motion earthquake response spectra: *Seismol. Soc. Am. Bull.*, v. 52, no. 4, 963-970, Berkeley, Oct., 1962.
15870. WILLMORE, P. L. A new seismic research group for Edinburgh: *Nature*, v. 195, no. 4848, 1250-1252, London, Sept., 1962.
15871. WILSON, J. Tuzo Cabot fault, an Appalachian equivalent of the San Andreas and Great Glen faults and some implications for continental displacement: *Nature*, v. 195, no. 4837, 135-138, London, July, 1962. A comment by J. D. Bernal appears on p. 122 of this journal. A discussion by N. Holgate and reply by J. Tuzo Wilson appears in *Nature*, v. 197, no. 4868, 680-681, London, Feb., 1963.
15872. WITKIND, I. J. The Hebgen Lake, Montana, earthquake of August 17, 1959: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 31-44, West Yellowstone, 1960. *GEOPHYS. ABSTR.*
- WITT, E. O., MILLER, W., GURNEY, R. D., and LEHNER, F. E. A seismograph for lunar experiments. *See no. 15620* of this list.
- WOLD, R. J., BEHRENDT, J. C., and LAUDON, T. S. Results of a geophysical traverse from Mount Murphy to the Hudson Mountains, Antarctica. *See no. 15387* of this list.
15873. WOODWARD, F. W. Red Canyon fault, Hebgen Lake, Montana, earthquake August 17, 1959: *Billings Geol. Soc. 11th Ann. Field Conf. for 1960*, 49-55, West Yellowstone, 1960. *GEOPHYS. ABSTR.*
- WOOLLARD, G. P., MEYER, R. P., and STEINHART, J. S. Central plateau, Mexico, 1957. *See no. 15661* of this list.
- WOOLLARD, G. P., and STEINHART, J. S. Seismic evidence concerning continental structure. *See no. 15796* of this list.
- WOOLLARD, G. P., STEINHART, J. S., and MEYER, R. P. Arkansas-Missouri, 1958. *See no. 15793* of this list.
- WOOLLARD, G. P., STEINHART, J. S., and MEYER, R. P. Wisconsin-upper Michigan, 1958-1959. *See no. 15794* of this list.
15874. WORLD OIL "Suitcase seismic" records obtained from 4,000 feet: v. 153, no. 4, p. 119, Houston, 1961. *GEOPHYS. ABSTR.*
- WORZEL, J. L., EWING, M., and EWING, J. Sediments and oceanic structural history of the Gulf of Mexico. *See no. 15480* of this list.
- WRIGHT, J. K., CARPENTER, E. W., and SAVILL, R. A. The dependence of seismic signal amplitudes on the size of underground explosions. *See no. 15424* of this list.
- WRIGHT, J. K., SAVILL, R. A., and CARPENTER, E. W. The derivation and solution of indicator equations for seismometer-galvanometer combinations including the effect of seismometer inductance. *See no. 15764* of this list.
15875. WYLLIE, M. R. J., GARDNER, G. H. F., and GREGORY, A. R. Studies of elastic wave attenuation in porous media: *Geophysics*, v. 27, no. 5, 569-589, Tulsa, Oct., 1962.

- YABU, T., and UYEDA, S. Some experiments on thermal shock fracture of rocks. See no. 15843 of this list.
15876. YAMAGUCHI, R. Surface waves and layered structures. Part 1. Influence of a low velocity layer and some study on Lg and Rg waves: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 653-668, Tokyo, Dec., 1961.
15877. YAMAGUCHI, R., and KIZAWA, T. Surface waves and layered structures. Part 2. Theoretical dispersion curves for suboceanic surface waves: (with Japanese summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 669-809, Tokyo, Dec., 1961.
15878. YAMAKAWA, N. Scattering and attenuation of elastic waves. *Geophys. Mag.*, v. 31, no. 1, Tokyo, Mar., 1962. Part I Scattering of elastic waves by various kinds of obstacles, 63-95. Part II Attenuation of elastic waves due to scattering by randomly distributed particles, 97-103.
15879. YAZAKI, K. Strength test of the springs for strong motion seismometer: (in Japanese), *Quart. J. Seismol.*, v. 27, no. 1, 17-21, Tokyo, July, 1962.
15880. YOSHIMATSU, T. Results of geomagnetic routine observations and earthquakes. I.: *Kakioka Magnetic Observatory, Memoirs of The*, v. 10, no. 2, 107-117, Kakioka, Mar., 1962.
15581. YOSHIYAMA, R. Earthquake near the National Park Hakusan: (in Japanese with English summary), *Earthquake Res. Inst. Bull.*, v. 39, pt. 4, 849-856, Tokyo, Dec., 1961.
15882. YUNGUL, S. H., and DEHLINGER, P. Preliminary free-air gravity anomaly map of the Gulf of Mexico from surface-ship measurements and its tectonic implications: *J. Geophys. Res.*, v. 67, no. 12, 4721-4728, Washington, Nov., 1962.
- ZAKLINSKY, A. B., and GRIGORASH, Z. K. Modelling with tsunamis in the second Kuriles Strait. See no. 15508 of this list.
15883. ZHARKOV, V. N. Physics of the earth's core: (in Russian), *Akad. Nauk SSSR Inst. Fiziki Zemli Trudy*, no. 20(187), 3-50, Moscow, 1962.
15884. ZHARKOV, V. N. Natural oscillations of the earth. II. The reverse problem in the theory of torsional oscillations: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 998-998, Moscow, Aug., 1962. 640-641 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15885. ZHARKOV, V. N. Natural oscillations of the earth. III. The theory of attenuation of radial oscillations: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 8, 999-1008, Moscow, Aug., 1962. 642-646 in the English edition, *Am. Geophys. Union*, Washington, Nov., 1962.
15886. ZHARKOV, V. N., and KALININ, V. A. The equation of state of gabbro and dunite at high pressures: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 298-306, Moscow, Mar., 1962. 204-208 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.
15887. ZHARKOV, V. N., and KALININ, V. A. Seismic wave reflection at the core-mantle boundary: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 4, 449-455, Moscow, Apr., 1962. 299-302 in the English edition, *Am. Geophys. Union*, Washington, July, 1962.
- ZIETZ, I., and ALLINGHAM, J. W. Geophysical data on the climax stock, Nevada test site, Nye County, Nevada. See no. 15356 of this list.
15888. ZVEREV, S. M. Frequency features of explosions in deep seismic sounding in deep seas: (in Russian), *Akad. Nauk SSSR Izv.*, ser. Geofiz., no. 3, 359-367, Moscow, Mar., 1962. 240-244 in the English edition, *Am. Geophys. Union*, Washington, June, 1962.

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