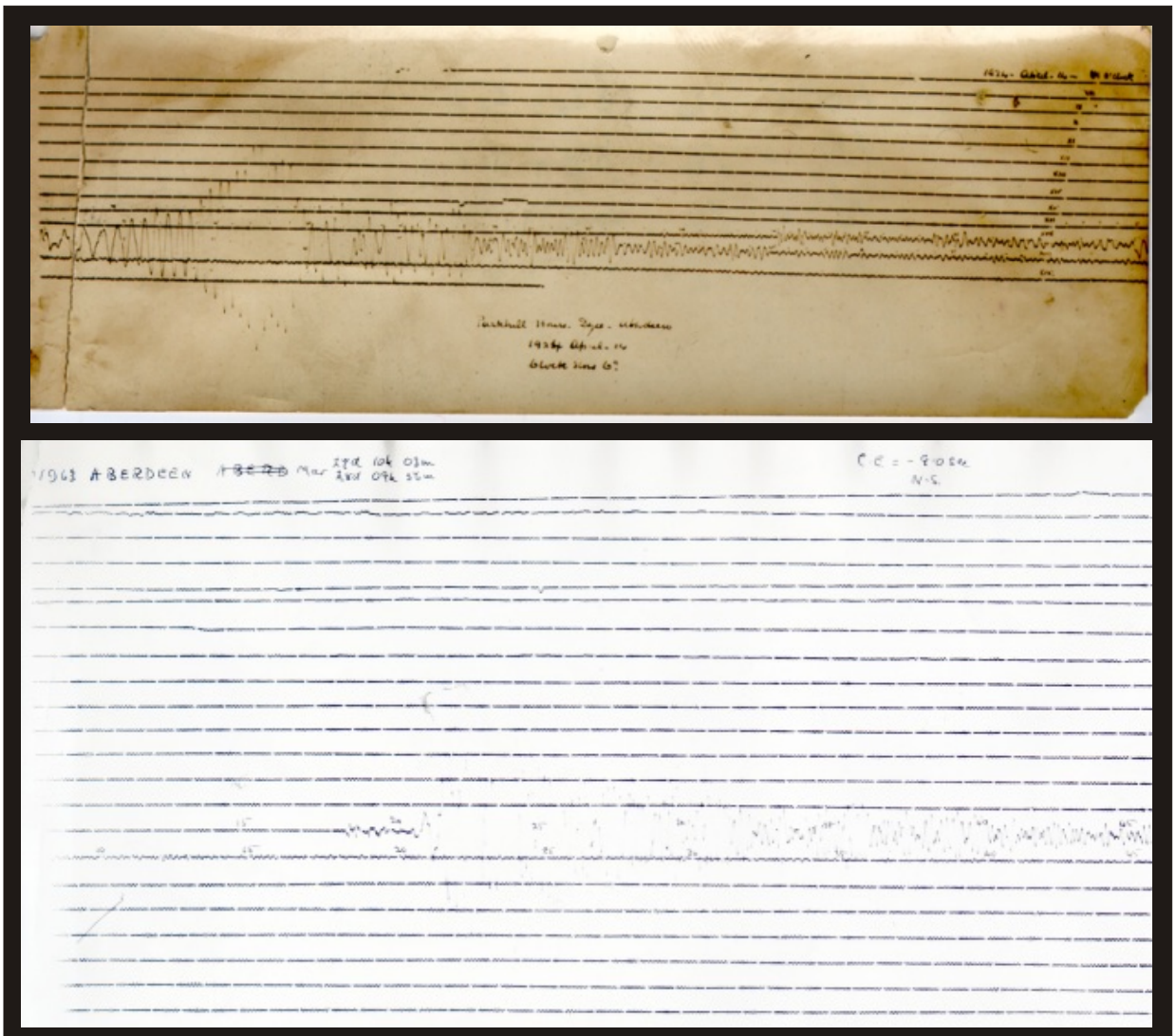




British Geological Survey

Aberdeen University Seismological Material held in the NSA



Front Cover

Seismogram of a large event near the Philippines on April 14th, 1924, thought to be the only one surviving from Crombie's observatory at Parkhill House, Dyce.

Seismogram of an event in the Indian Ocean, 28 March 1963, recorded on the N-S component of the Aberdeen University Milne-Shaw seismograph

BRITISH GEOLOGICAL SURVEY

Global Seismology & Geomagnetism Group

TECHNICAL REPORT WL/99/31

**The Aberdeen University Seismological
Material held in the National Seismological
Archive**

P.H.O. Henni and J.H. Lovell

February 2000

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Aberdeen University Seismological Material held in the NSA

1. Abstract

A collection of seismological material held at Aberdeen University has been acquired by the National Seismological Archive as part of its initiative on the study of the history of seismology. This collection consists chiefly of seismograms, journals, and bulletins associated with the work at the Aberdeen University Observatory, but also contains some details of Dr Crombie's Observatory at Dyce, near Aberdeen, that was its immediate precursor. The collection has been catalogued, and incorporated into the electronically searchable NSA database together with Aberdeen material from other sources.

2. Introduction

The National Seismological Archive (NSA), maintained by the British Geological Survey, is the United Kingdom national repository for seismological material. NSA studies have been undertaken of the history of earthquake seismology in the UK, for example Lovell & Henni (1999), in order to improve understanding of the historical data available, and in the hope of discovering lost seismological material. These studies have already enabled the discovery of three previously unknown seismological collections (for example, the EW Pollard, FL Vanderplank and Selfridges archives, all now copied into the NSA) and many other items, for example, seismograms and equipment, of historical interest.

This report on the NSA holding of Aberdeen University seismological material is presented as part of this initiative. The four Appendices detail the NSA holdings of, respectively, the Aberdeen University Collection on long-term loan to the NSA; the NSA holding of Aberdeen seismograms on long-term loan; the NSA holding of Aberdeen Seismological Bulletins and material retained at Aberdeen University, but catalogued in Neilson (1981). There is an unavoidable and small amount of duplication between these Appendices as the material has come from a variety of sources.

2.1 The Aberdeen University Seismological Collection

Neilson's (1981) report details a visit made to Aberdeen University in order to assess and catalogue the seismological collections held there. Since that date, the NSA has acquired the Aberdeen holdings on a long-term loan basis (with the exception of the two Milne-Shaw seismographs, which remain stored in the Department of Natural Philosophy there, and some volcanological and meteorological papers and photographic slides). Their cataloguing is now complete and is presented as Appendix 1.

The collection consists chiefly of a large number of journals, together with bulletins from observatories world-wide and individual offprints representing the exchange of information which was an important part of the work. Some biographical and other details of Dr Crombie's observatory (1914-1932) at Parkhill House, Dyce, are also included in the collection. Crombie was a graduate of Aberdeen University, and donated his instruments and library to the University on his death. The University Observatory was then established, and operated between 1936 and 1967. Fuller information on the history of the Dyce and Aberdeen University observatories is given in

Lovell & Henni (1999). No material from the original Parkhill House Observatory, Dyce has been located and it is therefore presumed lost (excluding one photograph of a seismogram, as shown on the cover of this report, which is held in the NSA).

Most of the Aberdeen University collection is held in the NSA at Edinburgh, with some material stored at Eskdalemuir Observatory - other astronomical, magnetic and meteorological observations are stored at Hartland Observatory. These alternative locations are designated in Appendix 1. It should be noted that this appendix has been ordered by title, as the records are a mix of bulletins, papers and other material, thereby following the format of the list in Nielson's 1981 report rather than the NSA database format (i.e. separate bulletins, seismograms and 'others'). Further work will be done to integrate this information in a better form, as time permits.

2.2 The NSA holding of Aberdeen University Observatory Seismograms

An almost complete set of original paper records from the two Aberdeen University Milne-Shaw seismographs is held in the NSA and detailed in Appendix 2. This collection was acquired by the NSA from Aberdeen University on the same long-term loan conditions as the collection detailed in Appendix 1, and has been microfilmed. A complete record of the NSA seismogram holdings is given in Henni et al. (1999a)

2.3 The NSA holding of Aberdeen University Observatory Seismological Bulletins

The large collection of world-wide Seismological Bulletins held in the NSA (detailed by Henni et al. (1999b)) includes an almost complete set of Aberdeen Bulletins from various sources, and they are listed in Appendix 3. There is some duplication between this Appendix and the Aberdeen Bulletins held separately with the Aberdeen University Seismological collection on long-term loan to the NSA.

3. Results

The NSA holding of the Aberdeen University seismological collections is given in Appendix 1. Appendix 2 lists the NSA holding of Aberdeen Observatory seismograms, Appendix 3 the NSA holding of Aberdeen Bulletins and Appendix 4 the material retained at Aberdeen University. These Appendices have also been incorporated into the NSA holdings database available in a searchable form on the GSGG web pages at <http://www.gsgg.nmh.ac.uk/~phoh/nsahome.htm>. No material from the Parkhill House Observatory, Dyce has been located and it is therefore presumed lost.

4. Acknowledgements

Thanks are due to Mr. Henry Barber and Dr John Reid of the Aberdeen University Department of Physics for their cooperation in the long-term loan of the collection to the NSA, and to Mr. G Neilson who wrote the original report following a visit to Aberdeen University during which the holdings were catalogued. KIG Lawrie of the BGS has assisted in the structuring of the NSA database and G. Webster, formerly of the BGS, with some of the cataloguing. A DETR-led Customer Group supports the continuing study of archival material. This report is published with the permission of the Director of the British Geological Survey (NERC).

5. References

Henni, P.H.O., J.H.Lovell & K.I.G.Lawrie, 1999a. UK Historical Seismograms held in the NSA, *British Geological Survey, Global Seismology and Geomagnetism Group*, **Technical Report WL/99/21**.

Henni, P.H.O., J.H.Lovell & K.I.G.Lawrie, 1999b. Seismological Bulletins held in the National Seismological Archive (NSA), Version 2, *British Geological Survey, Global Seismology and Geomagnetism Group*, **Technical Report WL/99/16**.

Lovell, J.H. & P.H.O.Henni, 1999. UK Historical Seismological Observatories (pre-1970) Version 3, *British Geological Survey, Global Seismology and Geomagnetism Group*, **Technical Report WL/99/13**.

Neilson, G., 1981. Historical Seismological Archives 2: Report on a visit to the Aberdeen University Department of Natural Philosophy, *British Geological Survey, Global Seismology Unit* **Report No. 144**.

Appendix 1

Collection of Papers and Journals Arranged Alphabetically by Author or Title

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
American Institute of Physics, Review of Modern Physics, vol. 13., No.4, October 1941		1941				GJW amended
Apia Observatory, Samoa, Seismological Report, 1923 July to 1924, December.		1923	07	1924	12	
B.A.A.S., Seismological Investigations Committee Reports for 1928, 1926, 1924, 1923, 1922.		1922		1928		
B.C.I.S., Universite de Strasbourg Annuaire de l'Institut de Physique du Globe, Seismologie, 1935; 1936; 1947 et 1948; 1949; 1950; 1951; 1952; 1953; 1954; 1957, parts 1 & 2; 1958.		1935		1958		
B.C.I.S., Bulletin Mensuel, 1967 January, June, September and December, 1971, 1967 July-December, 1964 January-June, 1964 July-October, 1963 January-June, 1968 January-March, 1961 August-December, 1953 July-December.		1953		1971		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
B.C.I.S., Bulletin Mensuel, 1959 May-December, 1961 January-July, 1954 January-December, 1957 January-December (January incomplete), 1960 January-December (February incomplete) , 1963 July-November (September incomplete), 1956 January-December (June incomplete), 1962 July-August, 1955 January-December (Not August).		1954		1963		
B.C.I.S., Bulletin D'Exchange; March 1954-May 1955 (Several Issues not found).		1954	03	1955	05	

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
B.S.S.A., 2, 2, 105-152. (Includes papers on Brazil earthquakes and destructive earthquakes in China).		1912	06			Publication date.
B.S.S.A., 2, 3, 153-216. (Articles on History of Seismology in Japan and Great Earthquakes of Haiti).		1912	09			Publication date.
B.S.S.A., 14, 1, 1-81. (Contains "A Diary of the Great Earthquake (Kuantō) by Imamura).		1924	03			Publication date.
B.S.S.A., 14, 2, 81-174. (Includes a paper on Earthquake Risk in California by Willis).		1924	06			Publication date.
B.S.S.A., 14, 3, 177-213. (Contains the Obituary of De Montessus de Ballore).		1924	09			Publication date.
B.S.S.A., 14, 4, 217-299. (Includes a paper on the New England Earthquakes of 1925).		1924	12			Publication date.
B.S.S.A., 17, 1, 1-50 (Includes a paper on the Santa Barbara Earthquake of 1925).		1927	03			Publication date.
B.S.S.A., 17, 2, 57-126.		1927	06			Publication date.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
B.S.S.A., 17, 3, 129-20.		1927	09			Publication date.
B.S.S.A., 18, 1, 1-64. (Contains a paper on the Karsu Earthquake, of May 23 1927 by Repetti).		1928	03			Publication date.
B.S.S.A., 18, 2, 73-143. (Contains a paper on Earthquake, in the Holy Land by Willis).		1928	06			Publication date.
B.S.S.A., 18, 3, 153-236. (Contains a long paper on the Santa Cruz Earthquakes of October 1926).		1928	09			Publication date.
B.S.S.A., 18, 4, 243-325. (Contains a paper of the Appalachian Earthquake of 1928).		1928	12			Publication date.
B.S.S.A., 19, 1, 1-54.		1929	03			Publication date.
B.S.S.A., 19, 4, 187-281.		1929	06			Publication date.
B.S.S.A., 19, 3, 135-179.		1929	09			Publication date.
B.S.S.A., 19, 4, 187-281.		1929	12			Publication date.
B.S.S.A., 20, 1, 1-39 (Contains a paper on the Camona, Venezuela earthquake of January 17, 1929).		1930	03			Publication date.
B.S.S.A., 20, 2, 41-110.		1930	06			Publication date.
B.S.S.A., 20, 3, 113-237.		1930	09			Publication date.
B.S.S.A., 20, 4, 241-333. (Included papers on the Italian Earthquake of July 23, 1930 and the San Francisco Earthquakes of 1865 and 1868).		1930	12			Publication date.
B.S.S.A., 21, 3, 183-203. Wood, Harry O and Richter, Charles F., 1931, Recent Earthquakes Near Whittier, California.		1931				Publication date.
B.S.S.A., 21, 1, 1-85. (Includes a paper on the Earthquake).		1931	03			Publication date.

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
B.S.S.A., 21, 2, 87-181 (Contains a paper on the New Madrid Earthquakes of 1930).		1931	06			Publication date.
B.S.S.A., 21, 3, 183-241.		1931	09			Publication date.
B.S.S.A., 21, 4, 243-339.		1931	12			Publication date.
B.S.S.A., 22, 1, 1-78.		1932	03			Publication date.

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Barlow, E.W., London 1927, Quarterly Journal of the Royal Meteorological Society, Supplement to vol. LIII, The...Eclipses.		1927				GJW amended

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Bauer, L.A. and Swann, W.F.G., No. 175 (Vol.III) of the Carnegie Institution of Washington, Results...(1909-1916)		1909		1916		GJW amended

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Benioff, H., 1949, Seismic Evidence for the Fault Origin of Ocean Deeps, Bull, Geol. Soc. Am., 60, 1837-1856.		1949				
Benioff, H., Jan-Feb 1953, Seismographs, Sphere.		1953				
Benioff, H., 1954, Orogenesis and Deep Crustal Structure, Bull. Geol. Soc. Am. 65, 385-400.		1954				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Bermuda - Columbia University Seismograph Station, Seismological Bulletin for 1 April 1962-31 March 1963, 1 April 1960-31 March 1961 Lownet Geological Observatory Contribution No. 989.		1960		1963		Lownet No. 989 not found

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Blue Hill Meteorological Observatory, Harvard University, Meteorological Radar Studies, Nos. 2-3.						GJW amended

Blue Hill Meteorological Observatory, Harvard University, 1951, Nos. 2, 4-5.		1951				GJW amended
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Blundell, D.J. and Parks, R. 1969, A Study of the Crustal Structure Beneath the Irish Sea, Geophys. J. Roy. Astr. Soc., 17, 45-62.		1969				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Brett, G.F. and Whiddington, R., Proceedings of the Leeds Philosophical Soc., vol. 1., part II, The passage...apertures.						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
British Association for the Advancement of Science, Tables for Converting Geographic into Geocentric Angular Distances (2 copies); Table for the Near Earthquake Pulses (2 copies); The Constants of Seismological Observatories 1933, 1937; The Geocentric Direction Cosines of Seismological Observatories; Catalogue of Earthquakes 1918-1924; Seismological Tables.						Seismological Tables not found

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
BSSA. Blum, V.J., July 1936, Intermediate Earthquake of June 25, 1935, B.S.S.A., 26, 3, 195-6.		1936	06			Publication date, not date of paper content
BSSA. Buchbinder, G.G.R., April 1965, PcP from the Nuclear Explosion Bilby, September 13, 1963, B.S.S.A., 55, 2, 441-461.		1965	04			Publication date, not date of paper content
BSSA. Bullen, K.E., January 1955, On the Size of the Strained Region Prior to an Earthquake, B.S.S.A., 45, 1, 43-46.		1955	01			
BSSA. Wilson, J.T. and Bayhal. O., January 1948, Crustal Structure of the North Atlantic Basin, B.S.S.A., 38, 1, 41-53.		1948				
BSSA. Wood, H.O., January 1955, The 1857 Earthquake in California, B.S.S.A., 45, 1, 47-67.		1955				Publication date

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Bulletin of the Seismographic Stations at Berkeley for 1942 (in four parts) Volume 12, Nos. 1-4; April 1 to December 31, 1948, Volume 18, Nos. 2-4; January 1 to July 31, 1949, Volume 19, Nos. 1 and 2; January to September 1943, Volume 13 Nos.		1942		1949		Incomplete run

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Buwalde, J.P., December 12, 1952, The Recent Arvin-Tehachapi, Southern California Earthquake, Science, 111, 3024, 645-650.		1952				Publication date

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Comptes - Rendus des seances de la Quatrieme Conference de la Commission Permanente et de la Deuxieme Assemblee Generale de l'Association Internationale de Sismologie, reunies A Manchester du 18 au 21 Juillet, 1911.		1911				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Carruthers, J.N., 1935, Oceanographers		1935				GJW amended
Carruthers, J.N., 1935, The Hydrographic Review, XII., 1, A...Oceanographers.		1935				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Charlier, C and Van Gals, J.M. 1953, Lisle des Stations Seismologique Mondiales, Observatoire Royal de Belgique a Uccle.		1953				
Conrad, V., 1951, A Method of Estimating the Periodic Constituents of a Geophysical Series, Blue Hill Observatory, Harvard University, Reprint No. 8.		1951				
Contributions from the Dominion Observatory, Ottawa, 1, 17, 26, 8, 11, 14 and No. 224; 3, 21; 8, 20; 8, 12; 6, 13; 1, 10; 1, 18.						1,8 and No. 224; 3,8,6 + others not found
Copenhagen, 1956-1965, Memoirs de L'Institute Geodesique de Danemark		1956		1965		GJW amended
Crampin, S., Anderson, G and Shahidi, M., 1968, Dashti Biaz, Iran, Earthquake of August 1968, Nature, 220, 5170, 903-905.		1968				
Dallas Seismological Observatory, Seismological Bulletin, Vol. 2. January 1, 1955-December 31, 1955.		1955				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Darbyshire, J. and Hinde, B.J., January 1961. Microseisms Research, 14, 8-17.		1961				
Dix, C.H., 1949, On the Minimum Oscillatory Character of Spherical Seismic Pulses, Geophysics, 14, 17-20.		1949				
Eskdalemuir Observatory, Seismological bulletin, 1965(Jan, Apr-Dec), 1966-67		1965		1967		GJW amended
Feast, M.W., 1970, The International Astronomical Union, pp 187-198, Review...Ultraviolet.		1970				GJW amended
Fluendy, A. McGregor, D.M. and Willmore, P.L., 1966, The Collection of Seismic Station Readings, Proc. Roy. Soc. A, 290, 461-466.		1966				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Folder 1: Stonyhurst College Observatory January-June 1929. Kew Observatory January 1931-May 1932. Note: Also blank forms from Dyce Obs. Bulletin (Crombie)		1929		1932		Stonyhurst Jan-Jun 1929 not found

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Folder 2: Kew Observatory January - April and June-December 1927.		1927				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Folder 3: Kew Observatory June-December 1930.		1930				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Folder 4: Kew Observatory January-November 1929.		1929				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Folder 5: Kew Observatory January-February and April - December 1928.		1928				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Fraser, R.G.J. and Jewitt, T.N., 1937, Proceedings of the Royal Society of London, 903., 160, The...Ethyl.		1937				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Fraser, Ronald G.J., 1934, Transactions of the Faraday Society, XXX., part 1, Possible...radicals.		1932				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
From the proceedings of the Royal Soc., A., vols. 103-107, 123 & 141						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geodetic Institute, Copenhagen, Denmark, 1930. The Seismological Stations Kobenhavn and Scoresby-Sund.		1930				
Geodetic Institute, Copenhagen, Bulletin of the Seismological Station, Scoresbysund, January-June 1961; Copenhagen, January-December 1961; Nord, July-December 1960, January-June 1961 (2 copies), Scoresby-sund 1962, 200 Ars Videnskabelig Geodaetisk Virk somked i Danmark, Med		1960		1962		GJW amended: + Scoresby-sund 1962

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geophysical Research Papers, 1954, No. 30., Proceedings...physics.		1954				GJW amended
Geophysical Institute of the Czechoslovak Academy of Sciences, Bulletin of the Czechoslovak Seismological Stations, January 1964 to June 1965, in three volumes; also the volumes for 1960 and 1971-1974.		1960		1974		Incomplete run. GJW amended: + 1960, 1971-73
Geophysical Research Letters	1-2	1974		1975		
Geophysical Research Letters	3-4	1976		1977		
Geophysical Research Letters	5	1978		1978		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Gerland's Beitrage zur Geophysik, XIII, 2, Engelmann, Leipzig und Berlin.		1913				
Gerland's Beitrage zur Geophysik, XIII, Englemann, Leipzig, und Berlin.		1913				
Gerland's Beitrage zur Geophysik, XIII, 3, Engelmann, Leipzig und Berlin. (Contains Obituary Notice on Milne).		1914				
Gerland's Beitrage zur Geophysik, XIII, 4, Engelmann, Leipzig und Berlin.		1914				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Greenwich Obs., Photo-Heliographic Results		1939		1948		Yearbook
Greenwich Obs., Mag. and Met. Observations		1939		1948		Yearbook
Greenwich Obs., Astronomical Results		1939		1944		Yearbook
Greenwich Obs., Astronomical Results		1946		1951		Yearbook

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Gutenberg, B, April 1949, Unexplained Phases in Seismograms 39, 2, 79-92.		1949				
Gutenberg, B., Richter, C.F. and Benioff, H. 1949. Earthquake Study in Southern California, Trans. Am. Geophys. Union, 30, 4, 595-597.		1949				
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Gutenberg, B, February 1949, Earth Physics, Physics Today, 2, 2, 14-18.		1949				

Item Description	Vol	Start		Stop		Comment
	No.	Year	Month	Year	Month	
Gutenberg, B., July-August, 1949, In Case of Earthquake Disaster.		1949				
Gutenberg, B., January 13, 1950. Structure of the Earth's Crust in the Continents, Science, 111, 29-30.		1950				
Gutenberg, B., 1954, Effects of Low Velocity layers, Geophysica Pura e Applicatas, 28, 1-10. (2 copies).		1954				
Gutenberg, B., April 1954, Low Velocity Layers in the Earth;s Mantle. Bull. Geol. Soc. Am., 45, 337-348.		1954				
Gutenberg, B., 1956, The Energy Earthquakes, Q.J. Geol. Soc. CXII, 1-14.		1956				
Gutenberg, B., March 31, 1959, Earthquakes in North America, Science, 111, 2883, 319-324.		1959				

Item Description	Vol	Start		Stop		Comment
	No.	Year	Month	Year	Month	
H H Turner. April 1920, Note on the 240-year Period in Chinese Earthquakes, LXXX, 6, 617-619.		1920				In M. Not. Roy. Astr. Soc.
H H Turner. March 1922, On the Arrival of Earthquake Waves at the Antipodes, 1, 1, 1-13.		1922				In M. Not. Roy. Astr. Soc.
H H Turner. May 1923, Revision of the Jamaica Earthquakes (1880-1919) 1, 3, 88-99. January 1923, On Maxwell Hall's Suggested Periodicity in Jamaica Earthquakes, 1, 2, 31-55.		1923				In M. Not. Roy. Astr. Soc.
H H Turner. December 1924, On the so called "Annual" Periodicity in the Occurrence of Earthquakes, 1, 5, 204-217.		1924				In M. Not. Roy. Astr. Soc.
H H Turner. April 1924, On a 4-year Periodicity in the Frequency of Earthquakes, 1, 4, 105-120.		1924				In M. Not. Roy. Astr. Soc.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
H H Turner. 1925, On the 4-year Period in Earthquakes, Second Note 1, 6, 227-244.		1925				In M. Not. Roy. Astr. Soc.
H H Turner. 1925, Notes on the 284-year Cycle in Chinese Earthquakes, 1, 6, 220-226.		1925				In M. Not. Roy. Astr. Soc.
H H Turner. 1926 Revised Seismological Tables and the Earth's Liquid Core, 1, 8, 125-446.		1926				In M. Not. Roy. Astr. Soc.
H H Turner. April 1928, On the Periodicity of Approximately 21 minutes in the Recurrence of Earthquakes, M.Not.Roy.Astr.Soc., Geophys. Supp*., II, 1, 59-71.		1928				In M. Not. Roy. Astr. Soc.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hay, J.S., July 1955, Quarterly Journal of the Royal Meteorological Society, vol. 81., No. 349, Some...sea.		1955				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hing, K. and Moe, A., August 30, 1971, Crustal structure of the Norwegian Sea, Nature Physical Science, 232, 35, 187-190.		1971				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hodgson, Ernest, A., 1929, Bibliography of Seismology, Pubs. Dom. Obs., Ottawa, X, 2, 20-34.		1929				
Hodgson, Ernest A., 1931, Bibliography of Seismology, Pubs, Dom. Obs., Ottawa, X, 7, 102-118.		1931				
Hodgson, Ernest A., 1931, Bibliography of Seismology, Pubs. Dom. Obs., Ottawa, X, 9, 140-155.		1931				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hodgson, Ernest A., 1931, Bibliography of Seismology, Pubs. Dom. Obs., Ottawa, X, 8, 120-138.		1931				
Hodgson, Ernest A., 1931, Bibliography of Seismology, Pubs. Dom. Obs., Ottawa, X 11, 177-189.		1931				GJW amended: + vol. X, No. 3
Hodgson, Ernest, A., 1931, Bibliography of Seismology, Pubs, Dom. Obs., Ottawa, X, 10, 159-173.		1931				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hosali, N.M., 1923, Seismic Waves in a Visco-Elastic Earth, Proc. Roy. Soc., A, 104, 271-278.		1923				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Hutchins, W.H. 1966, A Real Fine Seismic Array Data Analyser and its Associated Event Selector, The Radio and Electronic Engineer, 31, 5, 293-309.		1966				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
I.P.G. Strasbourg, Seismic Bulletin, 1968, 1966 (16 August-31 December), 1969 (February-November) 1967.		1966		1968		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Icelandic Stations Seismological Bulletin for 1959, 1962 and 1963.		1959		1963		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Imperial College of Science and Technology, London, Physics Course, partII, Measurement...Gases.						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Institut de Physique du Globe, Bulletin Seismique, 1971, 1970 January-November, 1972 January-September.		1970		1972		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Institute of Science and Technology, The University of Michigan, Vesiac State of the Art Reports, Seismological Evidence Pertaining to the Structure of the Earth's Upper Mantle, January 1963; Descriptions of Computer Programs for Seismic Analysis, April 1		1963				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
International Astronomical Union, Symposium, 1966, No. 26, parts 3, 14 & 22		1966				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
International Seismological Summary, Index Catalogue of Epicentres, 1931-35, 1913-30, 1936-42, 1949-56; the Geocentric Direction Cosines of Seismological Observatories (2 copies).		1913		1956		
International Seismological Summary for 1931-32 including Index Catalogues of Epicentres (unbound).		1931		1932		
International Seismological Summary for the years 1933 to 1959 bound in volumes.		1933		1959		

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International Seismological Summary, (unbound parts), 1962 April, May, June; 1962 July, August, September; 1962 October, November, December; 1963 January, February, March; 1963 April, May, June; 1963 October, November, December (2 copies): Catalogue of Epicentres for 1962: Index Catalogue for 1957-1963 (2 copies).		1957		1963		
International Seismological Summary for 1962.		1962				
International Seismological Centre Bulletin for 1964 (2 copies of the November issue).		1964				
International Seismological Centre, Regional Catalogue of Earthquakes for the years 1964, 1965 and 1968, Volumes, 1, 2 and 5.		1964		1968		Incomplete run.
International Seismological Centre Bulletin for 1965.		1965				
International Seismological Centre Bulletin for 1966.		1966				
International Seismological Centre Bulletin for 1967.		1967				
International Seismological Centre, 1968, D-Nodal Solutions for Earthquakes (1964) Volume 1.		1968				Publication date.
International Seismological Centre, 1971, Bibliography of Seismology Vols. 1 to 5 for the years 1965 to 1969.		1971				Publication date.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Jeans, J.H., 1923, The Propagation of Earthquake Waves, Proc. R. Astr. Soc., A, 102, 554-574.		1923				

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Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Jeffreys, Harold, 1927. On Two British Earthquakes, M.Not.R.Astr., Soc., Geophys. Supp. 1, 9, 483-494.		1927				
Jeffreys, Harold, 1931, The Times of P and S at Short Epicentral Distances, M. Not. R. Astr. Soc., Geophys. Supp., II, 8, 399-409.		1931				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Jesuit Seismological Association, Preliminary Bulletin, January 1955.		1955				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
John Carroll University, Seismological Observatory, Cleveland Ohio, Seismological Bulletin, 1965 to 1969 and 1971, 1961, 1978.		1961		1978		

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Johnson, N.K. and Heywood, M.A., 1938, Air Ministry, Meteorological Office Geophysical Memoirs, No. 77, An...atmosphere.		1938				GJW amended

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Journal of Geophysical Research	72	1966	01	1966	06	
Journal of Geophysical Research	71	1966	07	1966	12	
Journal of Geophysical Research	71	1967	01	1967	07	
Journal of Geophysical Research	72	1967	07	1967	12	
Journal of Geophysical Research	73	1968	01	1968	04	

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Journal of Geophysical Research	73	1968	05	1968	08	
Journal of Geophysical Research	73	1968	09	1968	12	Index vol. 73
Journal of Geophysical Research	74	1969	01	1969	05	
Journal of Geophysical Research	74	1969	06	1969	10	
Journal of Geophysical Research	74-75	1969	11	1970	03	Index vol. 74
Journal of Geophysical Research	75	1970	04	1970	09	
Journal of Geophysical Research	75	1970	10	1970	12	Index vol. 75
Journal of Geophysical Research	76	1971	01	1971	04	
Journal of Geophysical Research	76	1971	05	1971	08	
Journal of Geophysical Research	76	1971	09	1971	12	Index vol. 76
Journal of Geophysical Research	77	1972	01	1972	06	
Journal of Geophysical Research	77	1972	07	1972	12	Index vol. 77
Journal of Geophysical Research	78	1973	01	1973	06	
Journal of Geophysical Research	78	1973	07	1973	10	
Journal of Geophysical Research	78	1973	11	1973	12	Index vol. 78
Journal of Geophysical Research	79	1974	01	1974	03	
Journal of Geophysical Research	79	1974	04	1974	06	
Journal of Geophysical Research	79	1974	07	1974	09	

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Journal of Geophysical Research	79	1974	10	1974	12	Index vol. 79
Journal of Geophysical Research	80	1975	01	1975	04	
Journal of Geophysical Research	80	1975	05	1975	08	
Journal of Geophysical Research	80	1975	09	1975	12	
Journal of Geophysical Research	81	1976	01	1976	03	
Journal of Geophysical Research	81	1976	04	1976	06	
Journal of Geophysical Research	81	1976	07	1976	09	
Journal of Geophysical Research	81	1976	10	1976	12	
Journal of Geophysical Research	82	1977	01	1977	03	
Journal of Geophysical Research	82	1977	04	1977	07	
Journal of Geophysical Research	82	1977	08	1977	10	
Journal of Geophysical Research	82	1977	11	1977	12	
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Journal of Geophysical Research	83	1978	05	1978	08	
Journal of Geophysical Research	84-85	1978	08	1979	06	Atmosphere & Oceans
Journal of Geophysical Research	83	1978	09	1978	12	
Journal of Geophysical Research	84	1979	01	1979	04	
Journal of Geophysical Research	84	1979	04	1979	06	

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Journal of Geophysical Research	84	1979	07	1979	12	Space
Journal of Geophysical Research	84	1979	08	1979	12	Seismology & Magnetism
Journal of Geophysical Research	84	1979	09	1979	12	Space
Journal of Geophysical Research	85, 8-12	1980		1980		Space
Journal of Geophysical Research	85, 1-7	1980		1980		Space
Journal of Geophysical Research	86	1980	01	1980	07	Seismology & Magnetism
Journal of Geophysical Research	85-86	1980	07	1981	06	Atmosphere & Oceans
Journal of Geophysical Research	86	1980	08	1980	12	Seismology & Magnetism
Journal of Geophysical Research	86, 1-5	1981		1981		Space
Journal of Geophysical Research	86	1981	01	1981	06	Seismology & Magnetism
Journal of Geophysical Research	86	1981	05	1981		Seismology & Magnetism

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Kandilli Observatory (Turkey), Preliminary Seismogram Readings, August 1970 (all stations), September 2-October 16, 1970 (Kandilli only), July 11-July 18, 1970 (Dursunbey only), July 15-July 29, 1970 (Golpazeri), July 22-July 29, 1970 (Ezine only), Bulletin Seismique, 1951.		1951		1970		Not complete run. Sept 2-Oct 16th 1970 (Kandilli only) not found

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Karapiperis, P.P., Harvard 1951, Harvard Meteorological Studies, No. 9, The...winds.		1951				GJW amended

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Kew Observatory Bulletin, November 1936 - May 1940.		1936		1940		PHOH added
Kew Observatory, Seismological bulletin, 1963, 1964 (Feb not found)		1963		1964		GJW amended

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Kings College Observatory, Aberdeen, Seismological Bulletins		1944		1967		GJW amended
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Klotz, Otto, 1913, Stereographic Projection Tables, Pubs. Dom. Obs., Ottawa, 1, 1, 1-20.		1913				
Klotz, Otto, 1916, Seismological Tables, Pubs. Dom. Obs., Ottawa, III, 2, 19-62.		1916				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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Koninklijk Nederlands Meteorologisch Instituut, Mededelingen en Verhandelingen, Serie A, Nos. 57-58, 62-63, 67, 73-75, 77-80, 82-90.						GJW amended
Koninklijk Nederlands Meteorologisch Instituut, Mededelingen en Verhandelingen, Serie B, No. 125.						GJW amended
Koninklijk Nederlands Meteorologisch Instituut, No. 106A., 32, 43.		1951				GJW amended

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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Kovach, R.L. and Press, Frank, 1961, Rayleigh Wave Dispersion and Crustal Structure in the Eastern Pacific and Indian Ocean, Geophys. J. Roy. Astr. Soc., 4, 202-216.		1961				
Labrouste, H. 1923, Expore Sonmaire De :Etat De La Sismologie, annales de Physique, 9e serie, XiX, 5-62.		1923				
Lamont Geological Observatory, Columbia University, Seismological Bulletin, 1 January 1965-30 June 1965, 30 June 1965-31 December 1965, 1 January 1964-30 June 1964, 30 June 1964-31 December 1964, 1966-1967.		1964		1967		
Landsberg, S.Y., 1956, The Geographical Journal, CXXII., part 2, The...wind.		1956				GJW amended
Larsen, Soren H.H., Institute of Theoretical Astrophysics, Geophysica Norvegica, XXI., 5, Measurements...season.						GJW amended
Laursen, V., 1951, International Meteorological Commission, Bibliography for...year 1932-1933.		1932		1933		GJW amended

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Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
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Lee, A.W., 1932, The Determination of Thickness of the Continental Layers from the Travel Times of Seismic Waves, M. Not. R. Astr. Soc., Geophys. Supp., 3, 1, 113-21.		1932				
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Leet, L. Don, 1931, Empirical Investigation of Surface-Waves Generated by Distant Earthquakes, Pubs. Dom. Obs., Ottawa, VII Seismology, 6, 263-322.		1931				
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Lelmann, I., 1931, Die Bedeutung der Europäischen Stationsgruppe... 13pp.		1931				
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Memoirs of the Royal Meteorological Society, IV., Nos. 31,35 & 39.						GJW amended
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Memoirs of the College of Science, Kyoto Imperial University, Kyoto, vol. XVII., 6., XVII., 2,6., XIX., 2.5., XX., 4						GJW amended
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Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
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Meteorological Office, Geophysical Memoirs No. 78, Seismology at Kew Observatory.						A3 size.
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Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Monthly Notices of the Royal Astronomical Society, Geophysical Supplement, Volume 1 Nos. 6-10, Volume II Nos. 1-6 and No. 8, Volume 3 Nos. 1-3, 5, 7 and 9, Volume 4 Nos. 1, 2, 4, and 5-9.						
Monthly Notices of the RAS, Communications from the Radcliffe Observatory, Pretoria, Nos. 43-45, 50, 61-66, 89-91, 94, 101, 104-107.						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Moscow 1963, Academy of Sciences of the USSR, International Geophysical Year, 1957-1959.		1957		1959		GJW amended
Moscow 1963, Academy of Sciences of the USSR, Geophysical Bulletin, No. 13.		1963				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
N.E.R.C. Inst. Geol. Sci. Seismo. Bull. No. 1, Eskdalemuir Observatory: seismological readings for 1968.		1968				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
National Research Council, Transactions of the American Geophysical Union, Tenth Annual Meeting, April 25-26 1929; Eleventh Annual Meeting, May 1-2 1930, Washington D.C. (Includes a paper by H E McComb entitled "A Tilt - Compensation Seismometer").		1929				
National Research Council, Transactions of the American Geophysical Union, Twelfth Annual Meeting, April 30 and May 1, 1931, Washington, D.C.		1931				
National Report for Norway 1967-71.		1967		1971		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Nature, 1955, vol.176., Temperature...plants.		1955				GJW amended
Nelson, R.L. January 1954, A Study of the Seismic Waves SKS and SKKS, B.S.S.A., 44, 1, 39-55.		1954				
New Zealand Department of Science and Industrial Research Geophysics Division, Ambereley Observatory, Magnetic Results 1951.		1951				GJW amended
New Zealand Department of Scientific and Industrial Research, Christchurch Magnetic Observatory, Annual Reports, 1940-1945.		1954				GJW amended
Observatoire Royal Belgique, Bulletin Seismique, Uccle, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965; Provisional Seismic Bulletin, 1962 January-June, 1963 (July, August, September not found); 1964, 1965; Provisional Seismic Bulletin, 1962 January-June, 1963 (July, August, September not found); 1965 (October-December only), 1966, 1967, 1968, 1970 (January-June only).		1958		1970		
Observatoire Royal Belgique, Dourbes, Provisional Seismic Bulletin, 1962, 1963, 1964 (May and September only), 1965 (February, October and December only) & Bulletin Seismique for 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966.		1958		1966		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Observatoire Royal de Belgique, Provisional Seismic Bulletin, 1964 (September-December only), 1965 (October-December only), 1966, 1967 (February-June only), 1968 (May-December only), 1969 (March-December only), 1970 (January-June only); Bulletin Seismique		1964		1970		
Observatoire Royal de Belgique, Provisional Seismic Bulletin, Luxembourg, 1967 (May to December only), 1968, 1969, 1976 (January-June only).		1967		1969		GJW amended: + Jan-Jun 1970. Jan-Jun 1976 not found
Observatoire Royal Belgique, Dourbes, Provisional Seismic Bulletin for 1967, 1968 (January and March not found), 1969, 1970 (January-June only).		1967		1970		
Observatoire Royal de Belgique, Provisional Seismic Bulletin, Gileppe, 1968 (October-December only), 1969 (January-March, June, October-December), 1970 (January-March).		1968		1970		
Observatoire Royal de Belgique, XII Assemblée Generale de la Commission Seismologique Europeenne, Luxembourg, 21-29 September 1970.		1970				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Oregon State University, Seismological Bulletin No. 1, July 1 to September 30, 1963; No. 7, January 1 to March 31, 1965.		1963		1965		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Oslo 1954, Institute for Weather and Climate Research, The Norwegian Academy of science and Letters, Nos. 1-2.		1954				GJW amended

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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Oslo, Det Norske Videnskaps - Akademi I Oslo, Astrophysica Norvegica, vol. V Nos. 10-12, vol. VI Nos. 11-14, vol. VII No. 1 and vol. X No. 8.						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Prey, A., Mainka, C. and Tans, E., 1922. Einführung in die Geophysik, Springer Verlag, Berlin, 340pp. (Contains a theoretical treatment of many early seismometers including Mainka's).		1922				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Proceedings of the London Mathematical Society, series 2 - vol. 23., Part 5						GJW amended
Proceedings, of the American Philosophical Society, Sept. 1915, LIV, 219 (Symposium on the Earth).		1915				
Proceedings of the Royal Society of Edinburgh, Session 1918-1919, Vol. XXXIX		1918		1919		GJW amended
Proceedings of the Colloquium on Detection of Underground Nuclear Explosions, VESIAC Special Report 4410-36-X, 1962.		1962				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Publications of the Dominion Observatory, Ottawa XXX, 6; XXXII, 6, 4, 3; XIX, 6, 8; XVI, 11, 10.						GJW amended: + vol. XXXII, 3 and XIX, 3

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Quarterly Journal of the Royal Meteorological Society(RMS), Supplement to vol.62, 1936. Conference...1936		1936				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Rapports Scientifiques des Exeditions Polaires Francaises, No. N.111.2., Sismic Sounding in Greenland.						

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Recherches Astronomiques de L'Observatoire d'Utrecht, XII No. 2, XVII No. 4 and XVIII Nos. 1-2.						GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Rehmann, G.H., Dusseldorf 1950, Foundations...Dynamics.		1950				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Review Of Geophysics	5-7	1967		1969		
Review Of Geophysics	8-11	1970		1973		
Review Of Geophysics	13	1975		1975		
Review Of Geophysics	14	1976		1976		

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Richardson, Luvis F., 1925, Philosophical Magazine, XLIX, Turbulence...trees.		1925				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Royal Greenwich Obs., Sunspot and Geomag. Storm Data		1874		1954		
Royal Greenwich Observatory, Astronomical, Magnetic and Meteorological Observations, 1938 (Bound)		1938				GJW amended - Observation dates.
Royal Greenwich Observatory, Magnetic and Meteorological Observations, 1949-1952		1949		1952		GJW amended - Observation dates.
Royal Greenwich Observatory, Astronomical Results, 1952-1954.		1952		1954		GJW amended - Observation dates.
Royal Greenwich Observatory, Magnetic Observations, 1953-1955.		1953		1955		GJW amended - Observation dates.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Royal Observatory, Cape of Good Hope, Annals of the Cape Observatory, Stellar Parallaxes, XV., 1931-1938. (1953)		1931		1938		Observation dates.
Royal Observatory, Cape of Good Hope, First Catalogue of Stars for the Eguinox of 1950.0, Catalogue...stars, 1936-1944. (1953)		1953				GJW amended - publication date.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Rybner, Jürgen, 1931, Investigations on the Theory of the Galitzin Seismograph, Gerlands Beitrage zur Geophysik, 31, 259-281.		1931				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Saint Louis University, 1931 Tentative Tables of Travel Times for Near Earthquakes.		1931				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Scholte, J.G.J., 1956, Seismic Waves in a Spherical Earth, Medelingen en Verhandelingen Nederlands Meteorological Institute.		1956				
Scrase, F.T., 1931, The Reflected Waves from Deep Focus Earthquakes, Proc. R. Astr. Soc., A, 132, 213-235.		1931				
Scrase, F.J., 1934, Modern Seismology, Smithsonian Report, 193-203.		1934				
Seismische Registreringen in De Bilt, 1931, 19 (De Bilt station bulletin for 1931, published 1933.)		1931				Bulletin content date.
Seismological Bulletin, Seismological Series of the Dominion Observatory, Ottawa.		1961	01	1961	03	
Sellevol., M.A. and Pomeroy, Paul, 1968, A Travel Time Study for Tennesseandia Eirlok for Universitet i Bergen, No. 9.		1968				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Spectral Analysis and Statistical Properties of microseisms at Norsar, 1969, Seismological Observatory. University of Bergen Scientific Report No. 1.		1969				
Stanton Instruments Ltd, London, Instructions...(Wesphal Type).						GJW amended
State of California, Department of Natural Resources, 1955, Earthquakes in Kern County, California during 1952, Bulletin 171, Part II, Seismology.		1955				Publication date
Stenz, Sigwert, Leipzig 1956, Universitat Leipzig - Der Karl Marx, vol. 1., No. 2, Uber...Obstgeholzen.		1956				GJW amended
Taiwan Provincial Weather Bureau, Seismological Bulletin, 16, 2, April to June 1969; 16, 4, October to December 1969; 16, 3, July to September 1969; 15, 2, April to June 1968; 15, 3, July to September 1948; 16, 1, January to March 1969; 15, 4, October to December 1968.		1948		1969		Not complete run
The Astrophysical Journal, vol. 126 No.3., vol. 137 no.1., vol. 160 june 1970.		1970				GJW amended

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
The Dip of Moho under Norsar, 1969, Seismological Observatory, University of Bergen, Scientific Report No. 3.		1969				
The Geophysical Journal of the Royal Astronomical Society (RAS), vol. 14., Nos. 1-4, Oct 1967. The...1966 February 21-25		1967				GJW amended
The Observatory, Pretoria, vol. 78 No. 905, vol. 80 pp104-106, 110-112, vol. 82 No. 927-930.						GJW amended
The Royal Society, United Kingdom Report on Research Activities in Seismology, 1963-67.		1963		1967		
Thomson, Andrew, 1925, Apia Observatory, Upper Air Observations 1923-1924.		1923		1924		GJW amended - Observation dates.
Tiltmeter Record		1968		1969		EW
Tiltmeter Record		1970				EW

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Tiltmeter Record		1971	01	1971	05	EW
Tiltmeter Record		1971	06	1971	09	EW
Tiltmeter Record		1971	10	1971	12	EW
Tiltmeter Record		1972				EW
Tiltmeter Record		1973				EW
Tiltmeter Record		1974				EW
Tiltmeter Record		1975				EW
Tiltmeter Record		1976	01	1976	06	EW
Tiltmeter Record		1976	07	1976	12	EW
Tiltmeter Record		1977	01	1977	06	EW
Tiltmeter Record		1977	01	1977	06	NS
Tiltmeter Record		1977	07	1977	12	EW
Tiltmeter Record		1978	01	1978	06	EW
Tiltmeter Record		1978	07	1978	12	EW
Tiltmeter Record		1979				EW
Tiltmeter Record		1979	01	1979	06	EW
Tiltmeter Record		1979	07	1979	12	EW
Tiltmeter Record		1980				Poly Lab

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Tiltmeter Record		1980				
Tiltmeter Record		1980	01	1980	04	
Tiltmeter Record		1980	05	1980	06	
Tiltmeter Record		1980	07	1980	12	?
Tiltmeter Record		1981		1983		Slow
Tiltmeter Record		1981				
Tiltmeter Record		1981	01	1981	06	Standard
Tiltmeter Record		1981	01	1981	06	
Tiltmeter Record		1981	07	1981	12	
Tiltmeter Record		1981	07	1981	12	Standard
Tiltmeter Record		1982				
Tiltmeter Record		1982	01	1982	06	Standard
Tiltmeter Record		1982	01	1982	06	
Tiltmeter Record		1982	07	1982	12	Standard
Tiltmeter Record		1982	07	1982	12	
Tiltmeter Record		1983				
Tiltmeter Record		1983	03	1983	06	Standard
Tiltmeter Record		1983	07	1983	12	Standard

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Turner, H.H., 1915, M Method of Solving Spherical Triangles and Performing other Astronomical Computations, by the use of a simple table of squares, M. Not. R. Astr. Soc., LXXV, 7, 530-541.		1915				
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Turner, H.H., 1924, On a 4-year Periodicity in the Frequence of Earthquakes, M.Not.R.Astr.Soc., Geophys. Supp., 1, 4, 105-120.		1924				
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Turner, H.H., 1924, On the So-called "Annual" Periodicity of Earthquakes, M.Not.R.Asr.Soc., Geophys.Suppl. 1, 5, 204-217.		1924				
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U.G.G.I., Section de Seismologie, Serie A, Travaux Scientifiques, 7, Stockholm, August 1930.		1930				
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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U.K.A.E.A., Blacknest Note PA/4 - AG/59, A note on the New Geddes Printouts; AWRE Report No. 0-67/66, Sonic Seismic Results of the Long Shot Explosion.						
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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U.S. Atomic Energy Commission, Operation Hardtach April-October 1958, WT 1702 and WT 1741, Earth Motions; Operations Nougat and Storax, WT 1869, In situ stresses.		1958				
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
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Item Description	Vol	Start	Stop	Comment
	No.	Year Month	Year Month	
U.S.C. and G.S. Seismological Bulletin, January 1945 to December 1950, MSI 121-144.		1945	1950	
U.S.C. and G.S. Seismological Bulletin, January to March 1951, MSI 145a-145c		1951		
U.S.C. and G.S. Seismograph Station Observatories, 1 January 1954, November 1961, May 1964, 1 January 1956 and June 1962.		1954	1962	Not complete run.
U.S.C. and G.S. Seismological Bulletin, January 1954 to December 1956, MSI 157-192.		1954	1956	
U.S.C. and G.S. Seismological Bulletin, January 1957 to December 1959, MSI 193-228. (Includes IGY Supplement from July 1957).		1957	1959	GJW amended: + only MSI >217
U.S.C. and G.S. Seismological Bulletin, January 1957 and December 1959.		1957	1959	
U.S.C. and G.S., Seismological Bulletin, IGC Supplement, South Pole - Byrd, January 1959 to December 1961, MSI 217A-247A.		1959	1961	
U.S.C. and G.S. Seismological Bulletin, January 1960 to September 1960, MSI 229-277.		1960		GJW amended: MSI 229-237, not 277
U.S.C. and G.S. Seismological Bulletin, January 1961 to December 1963, MSI 241-276.		1961	1963	
U.S.C. and G.S., Preliminary Determination of Epicentres, Nos. 1-45, 1967, Nos. 54-84; 1968, Nos. 1-34 (all small format cards); 1969 Nos. 1-54 1968, Nos. 36-105 (Large format cards); 1961, Nos. 1-107; 1962 Nos. 1-107, 1963, Nos. 1-110; 1964, Nos. 1-108;		1961	1969	GJW amended: 1967, Nos. 1039 not found
U.S.C. and G.S. Antarctic Seismological Bulletin, April 1962 to March 1963, MSI 256A-265A, July to December 1966, MSI 307A-310A, April to June 1967, MSI 316A and July to September 1968, MSI 319A.		1962	1968	Not complete run.

Item Description	Vol No.	Start Year Month	Stop Year Month	Comment	
U.S.C. and G.S., Antarctic Seismological Bulletin, October, November, December, 1963 , MSI-274A.		1963			
U.S.C. and G.S., Antarctic Seismological Bulletin, July, August, September, 1963, MSI-271A.		1963			
U.S.C. and G.S., Antarctic Seismological Bulletin, April, May, June, 1963, MSI-268A.		1963			
U.S.C. and G.S., Antarctic Seismological Bulletin, July, August, September, 1964, MSI-283A		1964			
U.S.C. and G.S., Antarctic Seismological Bulletin, January, February, March 1964, MSI-277A.		1964			
U.S.C. and G.S., Antarctic Seismological Bulletin, April, May, June. 1964 MSI-280A.		1964			
U.S.C. and G.S., Antarctic Seismological Bulletin, October, November, December, 1964, MSI-286A.		1964			
U.S.C. and G.S. Seismological Bulletin, January 1964 to December 1965, MSI 277-300.		1964		1965	
U.S.C. and G.S., Antarctic Seismological Bulletin, July, August, September, 1965, MSI-295A.		1965			
U.S.C. and G.S., Antarctic Seismological Bulletin, January, February, March, 1965, MSI-289A.		1965			
U.S.C. and G.S., Antarctic Seismological Bulletin, April, May, June, 1965, MSI-292A.		1965			
U.S.C. and G.S. Antarctic Seismological Bulletin, October, November, December, 1965, MSI - 295A.		1965			

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
U.S.C. and G.S. Seismological Bulletin, July to December 1966, MSI 307-312.		1966				
U.S.C. and G.S. Seismological Bulletin, January to April 1966, MSI 301-304.		1966				
U.S.C. and G.S. Antarctic Seismological Bulletin, January, February, March, June, 1966, MSI-304A.		1966				U.S. Coast and Geodetic Survey
U.S.C. and G.S. Antarctic Seismological Bulletin, January, February, March 1966, MSI - 301A.		1966				
U.S.C. and G.S., Seismological Bulletin, March 1967, MSI 315.		1967				
U.S.C. and G.S., Antarctic Seismological Bulletin, October 1967 to June 1969, MSI 322A-337A; October 1969 to December 1971, MSI 346A-370A.		1967		1969		
U.S.C. and G.S. Seismological Bulletin, January to February 1967, MSI 313-314.		1967				
U.S.C. and G.S. Preliminary Determination of Epicentres, Monthly Listing, September 1968 to September 1969, August to November 1970, February to July 1971, April 1972 and June to August 1972.		1968		1972		Not complete run.

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
U.S.S.R. World Data Centre B1, Catalogue of Publications received by WDC B1 Issue 21, July 1969; Issue 20, January 1969; Issue 19, July 1968; Issue 18, January 1968; Issue 17, July 1967; Six-monthly catalogue of data on seismology and Gravity received during the periods July-December 1967, January-June 1968, January-June 1969.		1967		1969		GJW amended: 1 Aug-30 Jun 1968 not found. PHOH - added last three vols to list.
U.S.S.R. World Data Centre B, 1967, Catalogue of Data and Publications on Arctic and Antarctic, Moscow.		1967				

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Universite de Strasbourg, 1950, Annales de l'Institut de Physique du Globe, new series, VI, 3, Geophysics (contains a paper on the seismic history of Algeria); VII, 3, Geophysics. (contains a paper on the seismicity of France 1940-1950).		1950				
Universitetet i Bergen, Seismological Observatory, Seismological Bulletin, Jan Mayen 1962-63; Lillehammer Jan. 1968-May 1969; January, May 1964-65; Bergen 1964-65; Kangsberg 1964-65; Trans 1964-65; Kirkenes 1964-65; Jan Mayen Island 1966-67; Trans 1966-67		1962		1969		GJW amended:added Isfjord 1961-62
University of Bergen, Seismological Observatory, Scientific Report No. 4.						
University of Zagreb, Geophysical Institute, Seismological Bulletin, 1966, 1967, 1968.		1966		1968		
University of Ljubljara Astronomical and Geophysical Observatory, Preliminary Seismological Bulletin, 1967 October-December, 1968, 1969 July-December, 1970 October-December.		1967		1970		GJW amended: only 1967 October-December & July-September 1973 found
University of Durham, Global Division Seismology Unit, British Locations from EKA, Jan 1968		1968				GJW amended
Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
USSR World Data Centre B1, Catalogue of Data on Rockets and Satellites, July 1967- June 1969.		1967		1969		GJW amended
USSR World Data Centre B1, The Catalogue of Meteorology and Nuclear Radiation Data, 1967- June 1969.		1967		1969		GJW amended
USSR World Data Centre B1, Catalogue of Oceanographic Data (Ship) Programs, Jan-Jun 1967, Jan-Jun 1968 parts 1-3		1967		1968		GJW amended
USSR World Data Centre B1, Catalogue of Publications received by WDC B1 between 1967 and June 1969, Issues 17-21, General and Periodicals		1967		1969		GJW amended
USSR World Data Centre B1, Catalogue of Publications received by WDC B1 between 1967, January to June 1968 and January to June 1969, Issues 17-19,21, Glaciology and Oceanography		1967		1969		GJW amended
USSR World Data Centre B1, Catalogue of Publications received by WDC B1 between 1967 to June 1968, Issues 17-19, Meteorology		1967		1968		GJW amended
USSR World Data Centre B1, Catalogue of Data on Longitudes and Latitudes, 1967 - June 1969.		1967		1969		GJW amended
USSR World Data Centre B1, Catalogue of Publications received by WDC B1 between January and June 1969, Issue 21, Meteorology and Nuclear Radiation		1969				GJW amended

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment
Various. An incomplete set of IGS and ISC bulletins, various BCIS Bulletin Mensuel (unbound) and USCGS Preliminary Determination of Epicentres.						

Item Description	Vol No.	Start Year	Start Month	Stop Year	Stop Month	Comment

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Whipple, F.J.W., 1932, Terrestrial Magnetism and Atmospheric Electricity, On...current.		1932				GJW amended
Whipple, F.J.W., 1934, On the Alleged Tendency for Great Earthquakes to Occur Sympathetically in Widely Separated Regions, M. Not. R.Astr. Soc., Geophys, Supp. 3, 6, 233-238.		1934				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Wood, Harry O., 1921, A List of Seismologic Stations of the World, Bulletin of the National Research Council, 2, 7, No. 15, 397-538. (Contains a description of Crombie's Observatory at Dyce).		1921				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
World Data Centre B, 1967, Six-monthly Catalogue of Data on Seismology and Gravity received during the period 1 January-30 June, 1967, Moscow.		1967				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Yamamoto, Ryozauro, Kyoto 1954, The Meteorological Notes of the Meteorological Research Institution, Kyoto University, Series 2., No. 1, The...Hydrogen-Bombs.		1954				GJW amended

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Zagreb 1967, University of Zagreb - Faculty of Sciences, Geophysical Institution Papers, Series II., No. 14, Geophysical...1961.		1967				GJW amended

Appendix 2

Collection of Aberdeen Seismograms Sorted by Start Year, Month then Day

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1936	12		1936	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 1.
1937	01		1937	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 1. No records taken in Nov. 1937. Annotation on reverse side of records and in some cases on front also. Looked for Dollar event No. Q81, p340, Gairloch. No sign of event. (1936 December 23). Also Dollar event No. Q82, p341, Dalkeith. No sign of event. (1937 April 15). The trace has large gaps in it on the relevant chart and it is unlikely that such a small event at such a distance would be recorded. Also Dollar event No. Q84, p341, Ballater. Dollar states that "No seismogram of this tremor was made at Aberdeen" and certainly, in the relevant time window of 08h 30m-09h 00m, no clearly discernable event is present on the seismogram.
1938	01		1938	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 2. Records for Nov & Dec incomplete due to failure of Drum Clock. Looked for Dollar event No. Q85, p342, East Midlothian. No sign of record (1938 March 19)/ Also Dollar event No. Q86, p342, East Midlothian (1938 March 21). Also Dollar event No. Q87, p342-3, East Midlothian. No sign on record (1938 March 21). This event was however recorded by the Milne-Shaws in the Royal Observatory, Edinburgh. Also Dollar event No. Q88, p343, Killearn. No sign on record (1938 March 21).
1938	12		1938	12		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 3. Incomplete recordings experienced due to nature of N-S operation which has been but recently completed.
1939	01		1939	08		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 3.
1939	01	06	1939	08	30	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 3.

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1940	04	05	1940	10	01	Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 4. Dollar events Nos. Q89 to Q98 not looked for because of lack of records for this period (1940 Feb 1 to Feb 12). Note: Bundle 4 is marked "First set of records from new site under King's Library". Dollar event No. Q99 p348, North Argyllshire. No sign on record (1940 July 9). Trace quite faint due to problems with lamps around this time. Dollar Q100 & 101, Stirling. No sign on record (1940 July 16). Dollar event No. Q102 [See also Q103 & 104] p349 Stirling. Found on record (1940 July 16). The following is written on the seismogram, personally by Geddes:- "Underlined = is the little tremor reported to have occurred near Stirling at 5.35 pm. (B.S.T.). The Press & Journal told me Blackford Hill (Edinburgh) did not record it!" Arrivals: 16.7.40, N-S, P 16h 35m 12s.8, S 16h 35m 31s.5, E-W, S 16h 35m 36s, Trace Amplitude 1.1m C to P, Period 0.7 sec. N 5, 5 wave maximum 0.52m C to P E-W. Note: Dollar given readings for ABE on p351. All the events he mentions on 16 July 1940 are probably confused references to this one event. Dollar event No. Q106, p351, Stirling. No sign of event (1940 July 21). Dollart event No. Q107, P352, Campsie. No sign of event (1940 Aug 10).
1940	10		1940	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 5. Dollar event No. Q108, p352, Millport. No sign on record (Nov 16 1940).
1941	01		1941	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 5. Dollar event No. Q108, p352, Millport. No sign on record (Nov 16 1940).
1941	04		1941	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 6. Dollar event No. Q109, p352, Lorne. No sign on record (May 19 1941). Dollar event No. Q110, p353, Striling. No sign on record (Sept 6 1941).
1941	10		1941	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 7. No events listed by Dollar during this period.
1942	01		1942	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 7. No events listed by Dollar during this period.
1942	04		1942	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 8. No events listed by Dollar during this period.
1942	10		1942	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 9. No events listed by Dollar during this period.
1943	01		1943	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 9. No events listed by Dollar during this period.
1943	03		1943	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 10. No events listed by Dollar during this period.

Start Year	Month	Day	Stop Year	Month	Day	Recording Instruments	Media	COMMENT (From Neilson, 1981)
1943	10		1943	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 11. No events listed by Dollar during this period.
1944	01		1944	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 12. No events listed by Dollar during this period.
1944	04		1944	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 13. No events listed by Dollar during this period.
1944	10		1944	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 14. No events listed by Dollar during this period.
1945	01		1945	03		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 14. No events listed by Dollar during this period. March incomplete.
1945	04		1945	09		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 15. Dollar event No. Q111, Comrie at 12h 11m a small high-frequency signal on chart but it is doubtful if this is the same event (1945 July 18).
1945	05		1945	09		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 16. Dollar event No. Q111, Comrie at 12h 11m a small high-frequency signal on chart but it is doubtful if this is the same event (1945 July 18). No events listed by Dollar during this period.
1945	10		1945	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 16. Dollar event No. Q111, Comrie at 12h 11m a small high-frequency signal on chart but it is doubtful if this is the same event (1945 July 18). No events listed by Dollar during this period. Note:- Seismograms for January 1946 to March 1947 are missing - i.e. those covering the three Lochaber events of December 23, 25 (main shock) 1946 and June 5 1947.
1947	01		1947	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 18. Packet wrongly labelled. Dollar event No. Q119, Perth, No sign on record (1947 October 17). Dollar event No. Q120, Oban. No sign on record. Microseisms quite high. (1947 December 27). Note:- Seismograms for January 1946 to March 1947 are missing - i.e. those covering the three Lochaber events of December 23, 25 (main shock) 1946 and June 5 1947.
1947	04		1947	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 17. Note:- Seismograms for January 1946 to March 1947 are missing - i.e. those covering the three Lochaber events of December 23, 25 (main shock) 1946 and June 5 1947.
1947	10		1947	12		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 18. Packet wrongly labelled. Dollar event No. Q119, Perth, No sign on record (1947 October 17). Dollar event No. Q120, Oban. No sign on record. Microseisms quite high. (1947 December 27).

Start Year	Start Month	Start Day	Stop Year	Stop Month	Stop Day	Recording Instruments	Media	COMMENT (From Neilson, 1981)
1948	01		1948	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 18. Packet wrongly labelled. Dollar event No. Q119, Perth, No sign on record (1947 October 17). Dollar event No. Q120, Oban. No sign on record. Microseisms quite high. (1947 December 27).
1948	04		1948	06		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 19. Dollar event No. Q121, P357, West Sutherland and Wester Ross. No trace on N-S component and E-W component blank (1948 May 31)
1948	07		1948	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 20. No events listed by Dollar during this period. March incomplete.
1948	10		1948	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 21. N-S component ceased working during October 1948
1949	01		1949	06		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 21. N-S component ceased working during October 1948
1949	06	24	1949	06	30	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 21. N-S component ceased working during October 1948
1949	07		1949	08		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 22. (N.S. from 1.7.1949 only)
1949	09		1949	09		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 23.
1949	10		1949	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 24. Also some records from January 1950.
1950	04		1950	09		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 25.
1950	10		1950	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 26. Certain months incomplete.
1951	01		1951	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 26. Certain months incomplete.
1951	07		1951	10		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 27.
1951	11		1951	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 28.

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1952	01		1952	03		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 28.
1952	04		1952	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 29.
1952	08		1952	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 30.
1953	01		1953	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 31.
1953	07		1953	11		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 32.
1953	12		1953	12		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 33.
1954	01		1954	04		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 33.
1954	02	12	1954	04	30	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 33.
1954	05		1954	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 34.
1954	06		1954	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 35.
1954	07		1954	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 36.
1954	07		1954	10		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 32.
1954	08		1954	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 37.
1954	09		1954	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 38.

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1954	11		1954	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 39.
1954	12		1954	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 40.
1955	01		1955	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 41.
1955	04		1955	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 42.
1955	05		1955	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 43.
1955	06		1955	06		Unspec.	Original (Photographic Paper)	Bundle 44.
1955	07		1955	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 45.
1955	08		1955	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 46.
1955	10		1955	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 47.
1955	11		1955	11		Unspec.	Original (Photographic Paper)	Bundle 48.
1955	12		1955	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 49.
1956	01		1956	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 50. N-S Complete, E-W Incomplete
1956	02		1956	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 51.
1956	03		1956	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 52.

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1956	04		1956	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 53.
1956	05		1956	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 54.
1956	06		1956	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 55.
1956	07		1956	07		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 56. Tillotson event: Tarbert 1956 July 28 21h 40m. Light cut on N-S component & E-W component.
1956	08		1956	08		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 57. Tillotson event: Tarbert 1956 August 5 13h 40m. Tillotson event: Tarbert 1956 August 23 16h 30m. No sign of events on record.
1956	09		1956	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 58.
1956	10		1956	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 59.
1956	11		1956	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 60.
1956	12		1956	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 61.
1957	01		1957	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 62.
1957	02		1957	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 63.
1957	03		1957	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 64.
1957	04		1957	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 65.
1957	05		1957	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 66.

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1957	06		1957	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 67.
1957	07		1957	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 68.
1957	08		1957	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 69.
1957	09		1957	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 70.
1957	10		1957	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 71.
1957	11		1957	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 72.
1957	12		1957	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 73.
1958	01		1958	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 74.
1958	02		1958	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 75.
1958	03		1958	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 76.
1958	04		1958	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 77.
1958	05		1958	05		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 78.
1958	06		1958	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 79.
1958	07		1958	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 80.

Start Year	Month	Day	Stop Year	Month	Day	Recording Instruments	Media	COMMENT (From Neilson, 1981)
1958	08		1958	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 81.
1958	09		1958	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 82.
1958	10		1958	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 83. Tillotson event: 1958 Oct. 5 21h 15m Comrie. No sign on record.
1958	11		1958	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 84.
1958	12		1958	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 85.
1959	01	01	1959	01	22	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 86.
1959	01	01	1959	01	28	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 87.
1959	01	31	1959	02	01	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 86.
1959	02	01	1959	02	06	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 87.
1959	02	05	1959	02	07	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 88. Driving clock under repair
1959	02	16	1959	02	28	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 87.
1959	03		1959	03		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 88. Driving clock under repair
1959	03	07	1959	03	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 89.
1959	04		1959	04		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 89.

Start Year	Month	Day	Stop Year	Month	Day	Recording Instruments	Media	COMMENT (From Neilson, 1981)
1959	04		1959	04		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 89.
1959	05		1959	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 90.
1959	06		1959	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 91.
1959	07		1959	07		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 92. Tillotston event: 1959 July 17 Comrie. (no time given)
1959	08		1959	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 93.
1959	09		1959	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 94.
1959	10		1959	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 95.
1959	11		1959	11		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 96
1959	11	01	1959	11	20	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 96
1959	12		1959	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 97
1959	12	22	1959	12	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 97
1960	01		1960	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 98
1960	02		1960	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 99
1960	03		1960	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 100

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1960	04		1960	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 101
1960	05		1960	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 102
1960	06		1960	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 103
1960	07		1960	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 104
1960	08		1960	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 105
1960	09		1960	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 106
1960	10		1960	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 107
1960	11		1960	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 108
1960	12		1960	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 109
1961	01		1961	01		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 110
1961	01	01	1961	01	10	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 110
1961	01	23	1961	01	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 110
1961	02		1961	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 111
1961	03		1961	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 112

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1961	04		1961	04		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 113 Clock under repair
1961	04	01	1961	04	01	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 113 Clock under repair
1961	04	14	1961	04	30	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 113 Clock under repair
1961	05		1961	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 114
1961	06		1961	06		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 115
1961	06	01	1961	06	03	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 115
1961	06	17	1961	06	18	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 115
1961	07		1961	07		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 116 E-W not working
1961	08		1961	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 117
1961	09		1961	09		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 118
1961	10		1961	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 119
1961	11		1961	11		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 120
1961	11	01	1961	11	17	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 120
1961	12		1961	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 121 N-S not working

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1962	01		1962	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 122
1962	02		1962	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 123
1962	03		1962	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 124
1962	03	31	1962	04	04	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 125
1962	04		1962	04		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 125
1962	05		1962	05		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 126, E-W not working
1962	06		1962	06		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 127
1962	06	02	1930	06	30	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 127
1962	07		1962	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 128
1962	08		1962	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 129
1962	09		1962	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 130
1962	10		1962	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 131
1962	11		1962	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 132
1962	12		1962	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 134

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1963	01		1963	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 135
1963	02		1963	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 136
1963	03		1963	03		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 137
1963	04		1963	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 138
1963	05		1963	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 139
1963	06		1963	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 140
1963	07		1963	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 141
1963	08		1963	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 142, Tillotson event: 1963 August 31, 12h 02m, Glen Spean. No sign of this event on the records.
1963	09		1963	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 143
1963	10		1963	10		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 144
1963	10	01	1963	10	17	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 144
1963	11		1963	11		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 145
1963	11	09	1963	11	16	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 145
1963	11	17	1963	11	30	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 145

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1963	12		1963	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 146
1964	01		1964	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 147
1964	02		1964	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 148
1964	03		1964	03		Milne-Shaw N-S	Original (Photographic Paper)	Bundle 149, Tillotson event: 1964 March 7, 07h 03m, Paisley. No sign of this event on the records.
1964	04		1964	04		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 149
1964	04		1964	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 150
1964	05		1964	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 151
1964	06		1964	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 152
1964	07	01	1964	07	16	Unspec.	Original (Photographic Paper)	Bundle 153, Station closed temporarily owing to reconstruction
1964	10	08	1964	10	31	Milne-Shaw E-W	Original (Photographic Paper)	Bundle 154
1964	10	18	1964	10	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 154
1964	11		1964	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 155
1964	12		1964	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 156
1965	01		1965	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 157

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1965	02		1965	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 158
1965	03		1965	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 159
1965	04		1965	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 160
1965	05		1965	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 161
1965	06		1965	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 162
1965	07		1965	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 163
1965	08		1965	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 164
1965	09		1965	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 165
1965	10		1965	10		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 166
1965	11		1965	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 167
1965	12		1965	12		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 168
1966	01		1966	01		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 169
1966	02		1966	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 170
1966	03		1966	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 171

Start Year	Month	Day	Stop Year	Month	Day	Recording Instruments	Media	COMMENT (From Neilson, 1981)
1966	04		1966	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 172
1966	05		1966	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 173
1966	06		1966	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 174
1966	07		1966	07		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 175
1966	08		1966	08		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 176
1966	09		1966	09		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 177
1966	10		1966	10		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 178
1966	10	01	1966	10	10	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 178, N-S Gaps in recording due to drum sticking and clock stopping.
1966	10	15	1966	10	16	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 178, N-S Gaps in recording due to drum sticking and clock stopping.
1966	10	27	1966	10	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 178, N-S Gaps in recording due to drum sticking and clock stopping.
1966	11		1966	11		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 179
1966	12		1966	12		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 180
1966	12	01	1966	12	11	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 180
1966	12	16	1966	12	20	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 180

Start			Stop			Recording Instruments	Media	COMMENT (From Neilson, 1981)
Year	Month	Day	Year	Month	Day			
1967	01		1967	01		Milne-Shaw E-W	Original (Photographic Paper)	Bundle 181
1967	01	13	1967	01	31	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 181
1967	01	15	1967	01	17	Milne-Shaw N-S	Original (Photographic Paper)	Bundle 181
1967	02		1967	02		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 182
1967	03		1967	03		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 183
1967	04		1967	04		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 184
1967	05		1967	05		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 185
1967	06		1967	06		Milne-Shaw E-W & N-S	Original (Photographic Paper)	Bundle 186

Appendix 3

NSA World Seismological Bulletins Collection: Aberdeen University Observatory. Sorted by Start Year, Month then Day

Start			Stop			COMMENT
Year	Month	Day	Year	Month	Day	
1939	01		1939	06		photocopy
1941	01		1941	12		photocopy, from 1941 records truncated at base of page
1942	01		1942	12		photocopy, from 1941 records truncated at base of page
1943	01		1943	12		photocopy, from 1941 records truncated at base of page
1944	01		1944	12		photocopy, from 1941 records truncated at base of page
1945	01		1945	12		photocopy, from 1941 records truncated at base of page
1946	01		1946	12		photocopy, from 1941 records truncated at base of page
1947	01		1947	12		photocopy, from 1941 records truncated at base of page
1948	01		1948	12		photocopy, from 1941 records truncated at base of page
1949	01		1949	12		photocopy, from 1941 records truncated at base of page
1950	01		1950	12		
1951	01		1951	12		duplicate photocopy, from 1941 records truncated at base of page
1952	01		1952	12		duplicate photocopy, from 1941 records truncated at base of page
1953	01		1953	12		duplicate photocopy, from 1941 records truncated at base of page
1954	01		1954	12		duplicate photocopy, from 1941 records truncated at base of page
1955	01		1955	12		Organisation Bound back to front
1956	01		1956	12		duplicate photocopy, from 1941 records truncated at base of page
1956	01		1956	12		Records truncated at base of page
1957	01		1957	12		duplicate photocopy, from 1941 records truncated at base of page
1957	01		1957	12		Records truncated at base of page
1958	01		1958	12		

Start			Stop			COMMENT
Year	Month	Day	Year	Month	Day	
1959	01		1959	12		No Feb, clock not working
1960	01		1960	12		
1961	01		1961	12		
1962	01		1962	12		
1963	01		1963	12		
1964	01		1964	12		
1965	01		1965	12		
1966	01		1966	12		

Appendix 4

Collection of Papers and Journals Held by Aberdeen University, Arranged Alphabetically by Author or Title

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
"Earthquakes" Box I, slides 1-8 contains illustrations of earthquake damage eg. fence offset by fault displacement during the San Francisco Earthquake.						
Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
"Earthquakes" Box II, slides 9-16 contains illustrations of the Milne-Shaw, taken from the handbook, typical seismograms and ray diagrams of the earth.						
Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
"Earthquakes" Box III, slides 17-23 contains more earthquake wave ray-path diagrams plus travel time curves and earth models.						
Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
"Earthquakes" Box IV, contains three tables of earth models, (depth versus velocity), and N-S and E-W Aberdeen seismogram for the Hokkaido earthquake of 4.3.52 and the California earthquake of 21.7.52.						
Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
17 boxes of Geddes' lantern slides relating to Meteorology, Voltage discharge and astronomy & 3 boxes of negatives.						

Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Various. A loose-leaf folder containing miscellaneous papers belonging to Geddes. Along these are plots of microseismic noise against time. Also included are Strasbourg station bulletins for 1940-1943.					
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Notebook in Geddes' handwriting entitled: 'Microseisms at Aberdeen' Milne-Shaw Seismograph at King's College					
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Eight similar slides show modern instrumentation eg. Benioff seismometers, E.M.I. tape deck, seismic recording system block diagram.					
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Five photographs of Crombie's Mainka seismometers including one showing the two components in operation at Parkhill Observatory together with the timing clock and the smoked paper recorder.					
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Geddes Monthly Lists from September 1965 to October 1972 (incomplete).					
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Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
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Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Jones, R.V., 1951, Some Points in the Design of Optical Levers and Amplifiers, Proc. Phys. Sac., B. LXIV, 469-482.						
Geddes, A.E.M, 1909, Dec Absorption von Kohlendio durch Kohle, Annalen der Physik, Band 29, Leipzig.		1909				is this correct?
Geddes, A.E.M, 1923, Observations of the Structure of the Hydrogen lives Hd and HB, Proc. Roy. Soc. Edin., XLIII, I, 2, 40-42.		1923				
Geddes, A.E.M, 1926, The Distribution of Electric Force in High Voltasge Discharges, Proc. Roy. Soc. Edin., XLVI, II, 14, 136-148.		1926				
Geddes, A.E.M, 1964, Obituary Notices for H.D. Griffiths for Year Book R.S.E. and Nature, 203, 4940, 20-21.		1964				
Geddes, A.E.M, January 1958, A Survey of the Microseisms Recorded at Aberdeen in 1955, B.S.S.A., 48, 65-76.		1958				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geddes, A.E.M, July 1922, Weather and Crop Yield in the North East Counties of Scotland, Q.J.Ray.Met.Sac., XLVIII, 203, 251-268.		1922				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geddes, A.E.M, July 1935, Temperature Trend at Aberdeen from 1870 to 1932, Q.J.Ray.Met. Sac., LEI, 261, 347-358.		1935				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geddes, A.E.M, March 1929, Observations on Ionic Content at Aberdeen, Terrestrial Magnetism and Atmospheric Electricity.		1929				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geddes, A.E.M, N.D. Microseisms at Aberdeen from September 1961 to March 1962, Jence, Heft 77. (Read by Tillotston).						

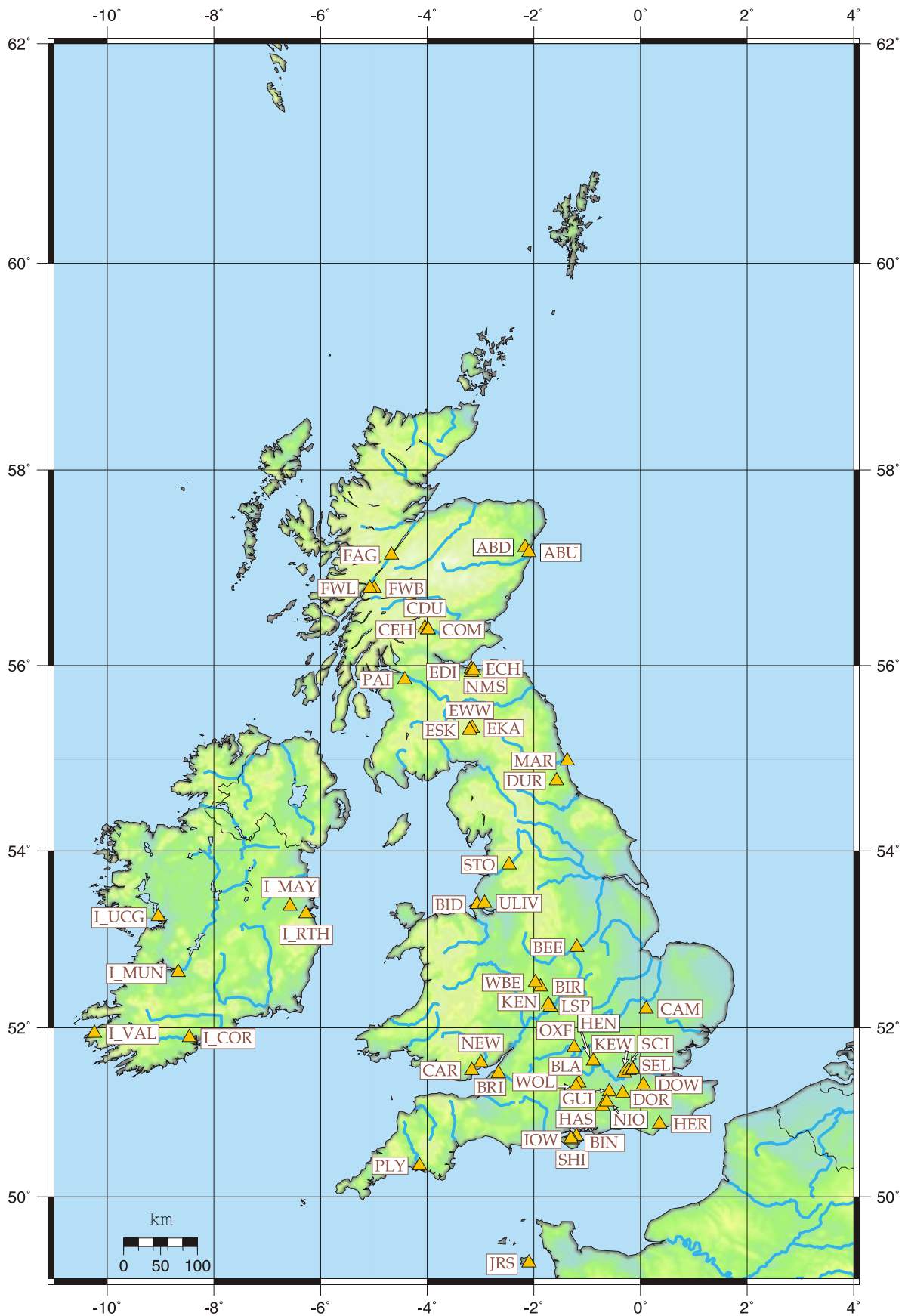
Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Geddes, A.E.M, November 1955, The Development of the Study and Practice of Meteorology at Aberdeen, X, 11, 385-389.		1955				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment
Seismic Noise Structure at the Norwegian Seismic Array, 1 December 1969.		1969				

Item Description	Vol No.	Start Year	Month	Stop Year	Month	Comment

Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
Six loose slides, in 35mm format, showing ray paths and typical seismograms.				

Item Description	Vol No.	Start Year Month	Stop Year Month	Comment
Turner, H.H., 1928, On the Persistence of the 21-Minute Period During the Nine Years 1918-1926, As shown by the Philippine Records of Earthquakes, M.Not.R.Astr. Soc., Geophys. Supp, 11, 2, 73-76.				



Historical seismological observatories in the British Isles, pre-1970.

(Taken from Lovell, J.H. & P.H.O.Henni, 1999. UK Historical Seismological Observatories (pre-1970) Version 3, *British Geological Survey, Global Seismology and Geomagnetism Group*, Technical Report WL/99/13.)



The Mainka Seismographs at Parkhill Observatory, Dyce, Aberdeen.