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THE LOCATION OF EPICENTRES, 1923-4-5

BY

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OTTAWA
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PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
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LOCATION OF EPICENTRES, 1923-1925

In continuation of the series of epicentre locations as determined at the Dominion Observatory, this issue carries the work forward through the three-year period beginning January 1, 1923, to the end of December, 1925, Greenwich mean dates. The results, in summary form, are as follows:—

Year	Total Number of Quakes recorded	Number for which Epicentres were determined
1923.....	308	83
1924.....	274	80
1925.....	369	107

Formerly an entry was made for every quake of which any trace was recorded at Ottawa, but with little or no sacrifice of the value of the results, the tabulation has been reduced to a list of earthquakes for which it was possible to locate the epicentre. This change accounts for the lack of continuity in the serial numbers which follow the dates in the first column.

The symbols employed are those of the standard notation:

Δ represents the arcual distance in kilometres from epicentre to station.

ϕ and λ the latitude and longitude, respectively, of the origin.

O the Greenwich mean time of the disturbance at its source.

The O values, as tabulated in the third column, may show considerable variation due to errors introduced by the person making the readings, table errors, and, not least, the clock error of the station. The most probable value for O, obtained from all available data, is given in the fifth column along with the determined geographical coördinates of the epicentre.

For the purpose of securing uniformity, this series, like those preceding, is based on the Klotz Tables, with the position of the epicentre determined by means of the stereographic projection method. This practice will be continued until other tables such as those of Macelwane or Gutenberg have been sufficiently tested in practice and adopted as standard.

Two unusually severe earthquakes occurred in the year 1923. The Tokyo earthquake of September 1 (No. 1573) was one of the greatest disasters of modern times causing great property damage and a heavy loss of life, this being due in part to the proximity of the epicentre to a thickly populated district. In point of severity, however, this quake ranks second to that which occurred on February 3 (No. 1387). The records show this latter disturbance to have been the most severe ever recorded at this station, with an actual earth displacement at Ottawa of 3.3 millimetres as compared to an earth movement of .38 millimetres for the Tokyo quake. The origin of the February disturbance was in the North Pacific ocean far removed from inhabited sections. It is interesting to note that the tidal wave caused by this earth adjustment travelled over the Pacific at a rate of over 400 miles per hour and after 7 hours reached the shores of Hawaii with sufficient intensity to cause heavy damage to shipping and coast structures, and also the loss of several lives.

Other disturbances which are deserving of attention are Nos. 1477 and 1479 of May 30 and No. 1615 of October 10 in the year 1923, together with Nos. 1904 and 1905 of October 10, 1924, which show a continued seismic activity in the regions north of the Arctic Circle.

During the year 1925, the North American continent experienced two earthquakes which are unique in that both occurred in regions which are subject to severe earthquakes only at comparatively rare intervals, and although both were of such intensity as to be recorded at all the principal seismic stations throughout the world, yet in neither instance was there direct loss of life. The disturbances referred to are the St. Lawrence earthquake of March 1 (No. 1999) and the Montana earthquake of June 28 (No. 2125).

DOMINION OBSERVATORY,
OTTAWA, CANADA,
April, 1928.

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 21 1378	Wien.....	4-13-46	1240	$\phi = 36^\circ \text{ N}$ $\lambda = 20^\circ.5 \text{ E}$ O = 4-13-38	
	Coimbra.....	4-13-16	2540		
	Athens.....	4-13-26	330		
	Belgrade.....	4-13-40	860		
	Innsbruck.....	4-13-53	1390		
	Uccle.....	4-13-46	1900		
Jan. 22 1381	Honolulu.....	9-04-12	3800	$\phi = 41^\circ \text{ N}$ $\lambda = 125^\circ \text{ W}$ O = 9-04-10	Lick gives $\phi = 41^\circ \text{ N}$ $\lambda = 124^\circ.6 \text{ W.}$
	Sitka.....	9-03-59	2140		
	Victoria.....	9-04-25	830		
	Berkeley.....	9-04-19	375		
	Lick.....	9-04-04	540		
	Tucson.....	9-04-18	1550		
	Denver.....	9-03-47	1750		
	Chicago.....	9-03-53	3150		
	Ottawa.....	9-04-10	3880		
	Georgetown.....	9-04-12	3960		
	Washington.....	9-03-47	3960		
	Wien.....	9-04-09	9680		
	Strasbourg.....	9-04-24	9080		
	Paris.....	9-04-08	9150		
	Algiers.....	9-04-23	9820		
	Cartuja.....	9-04-21	9580		
	Eskdalemuir.....	9-04-13	8160		
	Vieques.....	9-04-08	6240		
	Coimbra.....	9-03-58	9220		
	Toronto.....	9-04-15	4120		
	Fordham.....	9-04-12	4140		
	Cheltenham.....	9-04-04	4020		
	Northfield.....	9-03-57	4260		
	Ithaca.....	9-04-11	3850		
	Innsbruck.....	9-04-26	9280		
	Besançon.....	9-04-23	9150		
Uccle.....	9-04-21	8800			
Port au Prince.....	9-04-14	5560			
Feb. 1 1384	Wien.....	19-32-14	9120	$\phi = 44^\circ \text{ N}$ $\lambda = 155^\circ \text{ E}$ O = 19-32-08 Location approximate.	Cartuja gives $\phi = 47^\circ \text{ N}$ $\lambda = 176^\circ \text{ W.}$
	Cartuja.....	19-32-03	10780		
	Belgrade.....	19-31-54	9150		
	Innsbruck.....	19-32-22	9150		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 2 1385	Victoria.....	1-07-36	4480	$\phi = 55^\circ \text{ N}$ $\lambda = 166^\circ \text{ E}$ O = 1-06-39	
	Algiers.....	1-06-53	9560		
	Coimbra.....	1-07-11	9320		
	Wien.....	1-06-42	8260		
	Helwan.....	1-06-40	9550		
	Cartuja.....	1-06-58	9700		
	Belgrade.....	1-06-04	8920		
	Chicago.....	1-06-20	7600		
	Osaka.....	1-06-13	3080		
	Innsbruck.....	1-06-42	8480		
	Kobe.....	1-06-47	2780		
	Königsberg.....	1-06-25	7780		
	Mizusawa.....	1-06-04	2330		
Feb. 2 1386	Ottawa.....	5-08-21	7260	$\phi = 52^\circ \text{ N}$ $\lambda = 164^\circ \text{ E}$ O = 5-07-45	
	Fordham.....	(5-07-47)	8180		
	Toronto.....	5-08-48	7380		
	Algiers.....	5-07-35	9740		
	Wien.....	5-08-02	7780		
	Coimbra.....	5-07-54	9420		
	Helwan.....	5-07-33	9650		
	Strasbourg.....	5-07-03	8920		
	Paris.....	5-07-28	8740		
	Cartuja.....	5-08-09	9420		
	Tucson.....	5-08-07	6920		
	Honolulu.....	5-08-05	4630		
	Berkeley.....	5-07-15	6160		
	Sitka.....	5-07-45	3680		
	Cheltenham.....	5-08-15	8180		
	Uccle.....	5-07-34	8350		
	Washington.....	5-07-45	8250		
	Chicago.....	5-07-35	7550		
	Belgrade.....	5-07-17	8700		
	Mizusawa.....	5-07-55	2030		
	Ithaca.....	5-07-49	7800		
	Batavia.....	5-08-01	8160		
	Barcelona.....	5-07-27	9400		
	Georgetown.....	5-07-30	8480		
	Athens.....	5-07-37	9020		
	Eskdalemuir.....	5-07-42	7950		
	Firenze.....	5-07-37	9000		
	Stonyhurst.....	5-07-9	8080		
	Osaka.....	5-07-18	3100		
	Innsbruck.....	5-07-37	8540		
	Kobe.....	5-07-24	2930		
Besançon.....	5-08-03	8520			
Königsberg.....	5-07-38	7500			
Moncalieri.....	5-07-54	8580			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 3 1387	Ottawa.....	16-01-56	7620	$\phi = 52^{\circ} \cdot 5$ N $\lambda = 162^{\circ}$ E O = 16-01 40	Apia gives $\phi = 47^{\circ}$ N $\lambda = 172^{\circ}$ W Uccle gives $\phi = 50^{\circ}$ N $\lambda = 167^{\circ}$ E Coimbra gives $\phi = 51^{\circ} \cdot 4$ N $\lambda = 161^{\circ} \cdot 5$ E Sydney gives $\phi = 52^{\circ}$ N $\lambda = 175^{\circ}$ W.
	Saskatoon.....	.....	5750	
	Fordham.....	.....	7980	
	Algiers.....	16-01-51	9580		
	Toronto.....	16-02-30	7380		
	Coimbra.....	16-01-41	9820		
	Lick.....	.....	6110	
	Wien.....	16-01-39	8350		
	Uccle.....	16-01-19	8670		
	Strasbourg.....	16-01-12	9100		
	Berkeley.....	16-01-33	6020		
	Paris.....	16-01-03	9320		
	Moncalieri.....	16-01-32	9000		
	Cartuja.....	16-01-53	9700		
	Tucson.....	16-01-41	7320		
	Cheltenham.....	16-02-02	8250		
	Sitka.....	16-01-42	3780		
	Honolulu.....	16-01-46	5020		
	Sydney.....	16-01-42	9800		
	Washington.....	16-01-46	8320		
	Chicago.....	16-01-22	7800		
	Barcelona.....	16-01-21	9820		
	Northfield.....	16-01-44	8050		
	Ithaca.....	16-01-49	7960		
	Melbourne.....	16-01-48	10180		
	Georgetown.....	16-01-43	8300		
	Firenze.....	16-01-16	9520		
Innsbruck.....	16-01-43	8500			
Lemberg.....	16-00-9	7960			
Zi-ka-wei.....	16-01-36	3880			
Spring Hill.....	16-01-52	8440			
Königsberg.....	16-01-35	7600			
Feb. 8 1398	Ottawa.....	0-33-23	3660	$\phi = 18^{\circ}$ N $\lambda = 98^{\circ}$ W O = 0-33-23	
	Chicago.....	0-33-04	2930		
	Washington.....	0-33-38	2930		
	La Paz.....	0-33-29	5050		
Feb. 11 1405	Algiers.....	22-45-47	9500	$\phi = 54^{\circ}$ N $\lambda = 163^{\circ}$ E O = 22-45-37	
	Wien.....	22-45-36	8250		
	Chicago.....	22-45-38	7400		
	Victoria.....	22-45-34	4880		
	Mizusawa.....	22-45-32	2430		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 12 1406	Algiers.....	1-58-58	9300	$\phi = 54^\circ \text{ N}$ $\lambda = 165^\circ \text{ E}$ O = 1-58-49	
	Wien.....	1-58-34	8280		
	Cartuja.....	1-58-59	9450		
	Washington.....	1-59-02	8000		
	Chicago.....	1-58-56	7300		
	Mizusawa.....	1-58-37	2290		
	Belgrade.....	1-58-21	8640		
	Firenze.....	1-58-48	8700		
	Osaka.....	1-59-09	2550		
	Moncalieri.....	1-58-57	8500		
Uccle.....	1-58-41	8150			
Feb. 16 1411	Algiers.....	9-16-18	9900	$\phi = 49^\circ \text{ N}$ $\lambda = 154^\circ \text{ E}$ O = 9-16-05	
	Strasbourg.....	9-15-33	9650		
	Zi-ka-wei.....	9-16-21	3180		
	Ekaterinburg.....	9-15-53	6000		
	Uccle.....	9-16-21	8550		
Feb. 24 1417	Ottawa.....	7-34-48	7390	$\phi = 54^\circ \text{ N}$ $\lambda = 166^\circ.7 \text{ E}$ O = 7-34-36	
	Halifax.....		7620		
	Saskatoon.....		5400		
	Fordham.....	7-34-28	8380		
	Algiers.....	7-34-22	9820		
	Coimbra.....	7-35-12	9000		
	Helwan.....	7-34-33	9520		
	Wien.....	7-34-24	8360		
	Strasbourg.....	7-34-34	8380		
	Cartuja.....	7-34-43	9780		
	Honolulu.....	7-34-36	4900		
	Sitka.....	7-34-32	3590		
	Cheltenham.....	7-35-01	7850		
	Belgrade.....	7-34-15	8850		
	Chicago.....	7-34-12	7480		
	Barcelona.....	7-34-43	9160		
	Georgetown.....	7-34-50	8020		
	Victoria.....	7-34-44	4700		
	Athens.....	7-34-55	8840		
	Moncalieri.....	7-34-53	8540		
	Lick.....		5950		
	Berkeley.....	7-34-19	5950		
	Eskdalemuir.....	7-34-47	7650		
	Stonyhurst.....	7-34.7	7960		
	Osaka.....	7-34-15	3190		
	Innsbruck.....	7-34-16	8650		
	Besançon.....	7-34-40	8580		
	Königsberg.....	7-34-31	7500		
Uccle.....	7-34-39	8200			
Tyosi.....	7-34-27	2720			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 1 1422	Ottawa.....	8-26-15	6240	$\phi = 49^\circ \text{ N}$ $\lambda = 171^\circ \text{ W}$ O = 8-26-20	
	Zi-ka-wei.....	8-26-37	5850		
	Ekaterinburg.....	8-26-08	7350		
Mar. 15 1433	Ottawa.....	5-40-16	7020	$\phi = 43^\circ \text{ N}$ $\lambda = 17^\circ.2 \text{ E}$ O = 5-40-21	Cartuja gives $\phi = 43^\circ 48' \text{ N}$ $\lambda = 17^\circ 28' \text{ E}$.
	Paris.....	5-39-49	1160		
	Strasbourg.....	5-40-36	830		
	Algiers.....	5-39-51	1620	Belgrade gives $\phi = 43^\circ 25' 30'' \text{ N}$ $\lambda = 17^\circ 16' 50'' \text{ E}$.	
	Cartuja.....	5-40-28	1920		
	Belgrade.....	5-40-01	420		
	Eskdalemuir.....	5-40-08	2030		
	Chicago.....	5-40-27	7920		
	Wien.....	5-40-23	520		
	Innsbruck.....	5-40-15	700		
	Athens.....	5-40-30	680		
	Helwan.....	5-40-30	1840		
	De Bilt.....	5-40-24	1310		
	Besançon.....	5-40-40	870		
	Lemberg.....	5-40-0	1060	De Bilt gives $\phi = 43^\circ 20' \text{ N}$ $\lambda = 17^\circ 10' \text{ E}$.	
	Ekaterinburg.....	5-41-10	2860		
Moncalieri.....	5-40-35	720			
Uccle.....	5-40-22	1260			
Mar. 24 1441	Cartuja.....	12-39-41	9740	$\phi = 30^\circ.5 \text{ N}$ $\lambda = 101^\circ.5 \text{ E}$ O = 12-40-10	
	Strasbourg.....	12-40-04	7800		
	Victoria.....	12-40-51	9440		
	Osaka.....	12-40-12	3190		
	Eskdalemuir.....	12-40-05	8080		
	Stonyhurst.....	12-39-4	9150		
	Taihoku.....	12-40-17	2230		
	Wien.....	12-40-06	7180		
	Innsbruck.....	12-40-3	7480		
	Helwan.....	12-40-07	6600		
	Kobe.....	12-40-03	3160		
	De Bilt.....	12-40-17	7680		
	Barcelona.....	12-40-30	8360		
	Batavia.....	12-40-00	4120		
	Ekaterinburg.....	12-40-32	3850		
	Mizusawa.....	12-40-15	3520		
Tyosi.....	12-40-05	3690			
Uccle.....	12-40-11	7860			
Moncalieri.....	12-40-12	7960			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
April 13 1446	Ottawa.....	15-31-12	7380	$\phi = 56^\circ \text{ N}$ $\lambda = 163^\circ \text{ E}$ O = 15-30-56	
	Victoria.....	15-30-58	4780		
	Paris.....	15-30-50	8380		
	Strasbourg.....	15-30-55	8250		
	Sitka.....	15-30-49	4600		
	Honolulu.....	15-31-01	5020		
	Belgrade.....	15-31-07	8280		
	Wien.....	15-31-00	8100		
	Algiers.....	15-31-09	9340		
	Chicago.....	15-30-25	7700		
	Hamburg.....	15-31-00	7650		
	Athens.....	15-31-06	8820		
	Uccle.....	15-31-05	7950		
	Berkeley.....	15-30-52	5700		
	De Bilt.....	15-30-56	7950		
	Mizusawa.....	15-30-44	2500		
Wellington.....	15-31-16	10550			
Tyosi.....	15-30-31	2900			
April 19 1450	Melbourne.....	3-09-1	5660	$\phi = 7^\circ \text{ N}$ $\lambda = 117^\circ \text{ E}$ O = 3-09-10 Location and O approximate.	
	Wien.....	3-09-53	9550		
	Helwan.....	3-09-20	9220		
	Zi-ka-wei.....	3-09-40	2660		
	Batavia.....	3-08-36	1750		
	Malabar.....	3-08-41	1780		
	Ekaterinburg.....	3-08-50	8020		
April 23 1451	Victoria.....	3-17-09	9050	$\phi = 29^\circ \text{ N}$ $\lambda = 126^\circ \text{ E}$ O = 3-16-58 Location approximate.	
	Wien.....	3-16-40	9380		
	Ootomari.....	3-17-03	2450		
	Uccle.....	3-17-14	9230		
	De Bilt.....	3-17-15	9250		
	Ekaterinburg.....	3-16-49	5990		
	Eskdalemuir.....	3-17-10	9340		
	Mizusawa.....	3-16-42	2020		
	Tyosi.....	3-16-41	1810		
April 29 1456	Algiers.....	9-33-59	3240	$\phi = 43^\circ \text{ N}$ $\lambda = 40^\circ \text{ E}$ O = 9-34-09 Location and O approximate.	
	Athens.....	9-33-49	1510		
	Uccle.....	9-34-24	2780		
	De Bilt.....	9-34-24	2780		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
May 4 1462	Ottawa.....	16-26-34	5520	$\phi = 55^{\circ}.0$ N $\lambda = 156^{\circ}.5$ W O = 16-26-42	Uccle gives $\phi = 54^{\circ}$ N $\lambda = 154^{\circ}$ W.
	Harvard.....	16-26-31	6040		
	Dyce.....	16-26-43	7320		
	Strasbourg.....	16-26-20	8400		
	Wien.....	16-26-40	8550		
	Algiers.....	16-26-45	9520		
	Ekaterinburg.....	16-26-41	7120		
	Georgetown.....	16-26-36	5920		
	Ithaca.....	16-26-31	5700		
	Firenze.....	16-26-52	8900		
	Sitka.....	16-26-46	1210		
	Eskdalemuir.....	16-26-40	7560		
	Tucson.....	16-26-47	4210		
	Chicago.....	16-26-55	4750		
	Northfield.....	16-26-28	5780		
	Cartuja.....	16-26-45	9410		
	Honolulu.....	16-26-40	3660		
	Besançon.....	16-26-42	8620		
	Hamburg.....	16-26-42	7900		
	Mizusawa.....	16-26-37	4740		
	Agram.....	16-26-48	8700		
	Athens.....	16-26-50	9350		
	Coimbra.....	16-27-04	8720		
	Helwan.....	16-26-55	10260		
	Manila.....	16-26-54	8080		
	Barcelona.....	16-26-53	9000		
	Paris.....	16-26-47	8280		
Zi-ka-wei.....	16-26-38	6640			
Spring Hill.....	16-26-32	5500			
Moncalieri.....	16-26-44	8800			
De Bilt.....	16-26-41	8060			
Uccle.....	16-26-41	8160			
Innsbruck.....	16-26-35	8700			
Belgrade.....	16-26-28	9000			
May 12 1469	Helwan.....	1-19-56	9080	$\phi = 3^{\circ}$ S $\lambda = 110^{\circ}$ E O = 1-19-40 Location approximate.	Ekaterinburg gives $\phi = 0^{\circ} 18' S$ $\lambda = 115^{\circ} 43' E$.
	Sydney.....	1-19-34	5750		
	Belgrade.....	1-19-55	10150		
	Ekaterinburg.....	1-19-16	8000		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
May 23 1472	Ottawa.....	22-37-21	7580	$\phi = 52^{\circ} \cdot 0 \text{ N}$ $\lambda = 163^{\circ} \cdot 7 \text{ E}$ O = 22-37-03	Ekaterinburg gives $\phi = 66^{\circ} 23' \text{ N}$ $\lambda = 156^{\circ} 55' \text{ W}$.
	Strasbourg.....	22-36-50	8820		
	Washington.....	22-37-05	8360		
	Victoria.....	22-36-47	5050		
	Honolulu.....	22-37-26	4630		
	Toronto.....	22-37-35	7460		
	Hamburg.....	22-36-57	8120		
	Osaka.....	22-37-12	3100		
	Zi-ka-wei.....	22-37-02	3880		
	Tyosi.....	22-36-52	2590		
	Moncalieri.....	22-36-50	9120		
	De Bilt.....	22-37-04	8220		
	Uccle.....	22-37-06	8320		
	Belgrade.....	22-36-41	8740		
	Cartuja.....	22-37-23	9700		
	Ekaterinburg.....	22-36-52	5950		
	Wien.....	22-37-07	8380		
Agram.....	22-37-02	8700			
Eskdalemuir.....	22-36-53	8120			
Coimbra.....	22-37-13	9400			
Mizusawa.....	22-36-54	2370			
May 28 1476	Algiers.....	1-26-01	9600	$\phi = 2^{\circ} \text{ S}$ $\lambda = 88^{\circ} \cdot 5 \text{ E}$ O = 1-26-00	Ekaterinburg gives $\phi = 3^{\circ} 4' \text{ S}$ $\lambda = 86^{\circ} 25' \text{ E}$.
	Strasbourg.....	1-26-00	9410		
	Athens.....	1-25-57	7950		
	Osaka.....	1-26-30	6180		
	Paris.....	1-26-15	9450		
	Zi-ka-wei.....	1-25-38	5120		
	De Bilt.....	1-26-05	9510		
	Uccle.....	1-26-06	9480		
	Ekaterinburg.....	1-25-49	7080		
	Batavia.....	1-26-04	2000		
	Wien.....	1-25-53	8900		
	Agram.....	1-26	8800		
	Eskdalemuir.....	1-26-16	9750		
Moncalieri.....	1-25-40	9650			
May 30 1477	Algiers.....	8-30-32	6900	$\phi = 77^{\circ} \text{ N}$ $\lambda = 128^{\circ} \text{ E}$ O = 8-30-36	
	Strasbourg.....	8-30-39	5400		
	Victoria.....	8-30-30	5280		
	Hamburg.....	8-30-34	4850		
	Paris.....	8-30-34	5500		
	Zi-ka-wei.....	8-30-37	5120		
	De Bilt.....	8-30-35	5080		
	Uccle.....	8-30-33	5240		
	Innsbruck.....	8-30-49	5300		
	Wien.....	8-30-36	5280		
	Agram.....	8-30-33	5650		
Coimbra.....	8-30-38	6700			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
May 30 1479	Algiers.....	17-57-00	6750	$\phi = 77^\circ \text{ N}$ $\lambda = 125^\circ \text{ E}$ O = 17-56-57	
	Strasbourg.....	17-56-40	5500		
	Victoria.....	17-57-12	5120		
	Hamburg.....	17-56-45	4850		
	Paris.....	17-56-52	5450		
	Zi-ka-wei.....	17-57-04	4900		
	Moncalieri.....	17-56-41	5870		
	De Bilt.....	17-56-48	5080		
	Uccle.....	17-56-47	5240		
	Belgrade.....	17-57-24	5200		
	Wien.....	17-57-15	4880		
	Agram.....	17-56-53	5530		
	Eskdalemuir.....	17-56-57	4740		
	Coimbra.....	17-56-55	6640		
May 31 1481	Ottawa.....	22-05-48	3380	$\phi = 31^\circ \cdot 3 \text{ N}$ $\lambda = 41^\circ \text{ W}$ O = 22-05-53	
	Algiers.....	22-05-49	4060		
	Strasbourg.....	22-05-50	4500		
	Toronto.....	22-05-47	3620		
	Hamburg.....	22-05-51	4750		
	La Paz.....	22-06-02	6110		
	Moncalieri.....	22-05-47	4500		
	De Bilt.....	22-05-52	4370		
	Uccle.....	22-05-57	4210		
	Coimbra.....	22-06-03	3020		
June 1 1482	Ottawa.....	17-25-31	9320	$\phi = 37^\circ \text{ N}$ $\lambda = 140^\circ \text{ E}$ O = 17-24-52	Strasbourg gives $\phi = 38^\circ \text{ N}$ $\lambda = 139^\circ \text{ E}$.
	Strasbourg.....	17-24-55	9420		
	Sitka.....	17-23-47	6860		
	Honolulu.....	17-24-31	6100		
	Chicago.....	17-25-22	9300		
	Algiers.....	17-25-11	10050		
	Victoria.....	17-24-55	7400		
	Hamburg.....	17-24-48	9020		
	Helwan.....	17-25-03	9320		
	Paris.....	17-24-58	9560		
	Zi-ka-wei.....	17-24-36	1970		
	Athens.....	17-25-12	9150		
	Innsbruck.....	17-25-03	9300		
	Uccle.....	17-24-50	9400		
	Wien.....	17-24-51	9100		
	Batavia.....	17-24-41	5810		
	Firenze.....	17-24-53	9580		
	Sydney.....	17-24-50	7760		
	Agram.....	17-24-47	9340		
	Cartuja.....	17-24-59	10850		
	Eskdalemuir.....	17-24-46	9340		
	Stonyhurst.....	17-25-1	9280		
	Belgrade.....	17-24-45	9150		
	De Bilt.....	17-24-49	9310		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
June 1 1483	Strasbourg.....	20-15-55	9400	$\phi = 37^\circ \text{ N}$ $\lambda = 142^\circ \text{ E}$ O = 20-15-53	Strasbourg gives $\phi = 38^\circ \text{ N}$ $\lambda = 139^\circ \text{ E}$.
	Chicago.....	20-16-38	9120		
	Victoria.....	20-15-58	7460		
	Algiers.....	20-16-11	10150		
	Hamburg.....	20-15-49	9010		
	Paris.....	20-16-08	9480		
	Zi-ka-wei.....	20-15-33	2000		
	Athens.....	20-15-56	9300		
	Uccle.....	20-15-50	9400		
	Wien.....	20-15-52	9100		
	Firenze.....	20-15-29	9480		
	Sydney.....	20-15-47	7780		
	Agram.....	20-15-56	9250		
	Eskdalemuir.....	20-15-47	9320		
	Ekaterinburg.....	20-15-46	6110		
	Belgrade.....	20-15-42	9200		
Innsbruck.....	20-15-51	9420			
De Bilt.....	20-15-49	9310			
June 18 1501	Tucson.....	8-16-14	8550	$\phi = 13^\circ \text{ S}$ $\lambda = 177^\circ \text{ W}$ O = 8-16-16 Location approximate.	
	Sitka.....	8-16-28	8620		
	Honolulu.....	8-16-30	4210		
	Wellington.....	8-15-54	2620		
June 19 1504	Ottawa.....	22-43-32	4900	$\phi = 61^\circ \cdot 8 \text{ N}$ $\lambda = 152^\circ \cdot 5 \text{ W}$ O = 22-43-34	
	Georgetown.....	22-43-36	5450		
	Cheltenham.....	22-43-27	5580		
	Sitka.....	22-43-52	1090		
	Washington.....	22-43-35	5450		
	Toronto.....	22-43-35	4820		
	Eskdalemuir.....	22-43-31	6730		
	Ekaterinburg.....	22-43-38	6470		
Pulkovo.....	22-43-23	6640			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
June 22 1507	Strasbourg.....	6-44-38	8200	$\phi = 23^\circ \text{ N}$ $\lambda = 99^\circ.5 \text{ E}$ O = 6-44-39	
	Algiers.....	6-44-31	8980		
	Hamburg.....	6-44-37	8000		
	Helwan.....	6-44-33	6680		
	De Bilt.....	6-44-39	8300		
	Barcelona.....	6-44-38	8880		
	Paris.....	6-44-36	8640		
	Zi-ka-wei.....	6-44-40	2350		
	Athens.....	6-44-34	7220		
	Coimbra.....	6-44-47	9440		
	Moncalieri.....	6-44-48	8180		
	Stonyhurst.....	6-45-0	8550		
	Wien.....	6-44-35	7650		
	Belgrade.....	6-44-45	7240		
	Uccle.....	6-44-36	8440		
	Innsbruck.....	6-44-56	7700		
	Sydney.....	6-44-40	8360		
	Agram.....	6-44-42	7620		
	Lemberg.....	6-44-4	7250		
	Cartuja.....	6-44-42	9450		
Taihoku.....	6-44-17	2420			
Mizusawa.....	6-44-36	4240			
July 2 1517	Strasbourg.....	2-31-51	9750	$\phi = 22^\circ \text{ N}$ $\lambda = 119^\circ \text{ E}$ O = 2-31-57	
	Victoria.....	2-32-19	9580		
	Paris.....	2-32-29	9350		
	Zi-ka-wei.....	2-31-08	1120		
	Osaka.....	2-31-49	2030		
	Kobe.....	2-31-22	2080		
	Agram.....	2-32-07	9160		
	Pulkovo.....	2-32-12	7650		
	Hamburg.....	2-31-50	9440		
	De Bilt.....	2-32-10	9340		
	Wien.....	2-31-56	9220		
Moncalieri.....	2-32-14	9620			
July 10 1527	Victoria.....	0-29-36	9660	$\phi = 30^\circ \text{ S}$ $\lambda = 75^\circ \text{ W}$ O = 0-29-10 Location approximate.	
	Toronto.....	0-29-16	8100		
	Georgetown.....	0-29-12	7680		
	La Paz.....	0-28-52	1710		
	Rio de Janeiro.....	0-28-53	3030		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
July 10 1528	Strasbourg.....	5-31-18	900	$\phi = 43^\circ \text{ N}$ $\lambda = 2^\circ \text{ W}$ O = 5-31-12	
	Algiers.....	5-30-52	900		
	Barcelona.....	5-31-15	280		
	Paris.....	5-31-17	700		
	Uccle.....	5-31-23	890		
	Agram.....	5-31-05	1460		
	Pulkovo.....	5-30-39	3050		
	Hamburg.....	5-31-00	1600		
	De Bilt.....	5-31-20	1070		
	Innsbruck.....	5-31-28	1000		
	Besançon.....	5-31-08	800		
	Coimbra.....	5-31-31	560		
	Wien.....	5-31-22	1400		
Cartuja.....	5-31-17	620			
July 13 1531	Strasbourg.....	11-13-52	9280	$\phi = 31^\circ.3 \text{ N}$ $\lambda = 131^\circ.0 \text{ E}$ O = 11-13-43	Ekaterinburg gives $\phi = 26^\circ 53' \text{ N}$ $\lambda = 124^\circ 19' \text{ E}.$ Uccle gives $\phi = 37^\circ \text{ N}$ $\lambda = 140^\circ \text{ E}.$
	Honolulu.....	11-13-47	7000		
	Sitka.....	11-13-38	7250		
	Victoria.....	11-13-23	8700		
	Helwan.....	11-13-40	9150		
	Paris.....	11-14-00	9340		
	Zi-ka-wei.....	11-13-43	850		
	Ekaterinburg.....	11-13-40	5950		
	Wien.....	11-13-27	9350		
	Cartuja.....	11-13-38	11150		
	Kobe.....	11-13-22	670		
	Uccle.....	11-13-45	9340		
	Firenze.....	11-13-47	9600		
	Agram.....	11-13-41	9230		
	Sydney.....	11-13-51	7270		
	Eskdalemuir.....	11-13-49	9280		
	Manila.....	11-14-20	1690		
	Pulkovo.....	11-13-31	7770		
	Hamburg.....	11-13-21	9450		
	De Bilt.....	11-13-42	9300		
Innsbruck.....	11-13-44	9340			
Belgrade.....	11-13-55	8750			
Stonyhurst.....	11-13-8	9400			
July 14 1533	Victoria.....	23-56-16	8600	$\phi = 29^\circ.4 \text{ N}$ $\lambda = 131^\circ.5 \text{ E}$ O = 23-56-14	Ekaterinburg gives $\phi = 30^\circ \text{ N}$ $\lambda = 128^\circ 28' \text{ E}.$
	Zi-ka-wei.....	23-56-14	920		
	Pulkovo.....	23-56-07	7770		
	De Bilt.....	23-56-24	9230		
	Wien.....	23-56-02	9380		
	Ekaterinburg.....	23-56-22	5930		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
July 16 1534	Honolulu.....	13-38-18	5550	$\phi = 13^{\circ} S$ $\lambda = 169^{\circ} E$ O = 13-38-20 Location approximate.	
	Victoria.....	13-38-37	9600		
	Sydney.....	13-38-04	2840		
July 17 1535	Victoria.....	1-01-52	2320	$\phi = 61^{\circ} N$ $\lambda = 155^{\circ} W$ O = 1-02-02	
	Pulkovo.....	1-02-12	6190		
	Cartuja.....	1-01-55	8820		
	Ekaterinburg.....	1-02-11	6540		
July 18 1536	Ottawa.....	1-05-55	3600	$\phi = 43^{\circ} 6 N$ $\lambda = 29^{\circ} 5 W$ O = 1-05-55	
	Strasbourg.....	1-05-50	2920		
	Toronto.....	1-05-46	4020		
	Algiers.....	1-05-46	2890		
	Barcelona.....	1-05-54	2610		
	Paris.....	1-05-57	2520		
	Uccle.....	1-05-53	2640		
	Agram.....	1-05-52	3470		
	Pulkovo.....	1-05-51	4260		
	De Bilt.....	1-05-52	2720		
	Coimbra.....	1-06-18	1600		
	Cartuja.....	1-05-53	2340		
	Ekaterinburg.....	1-06-09	6120		
July 18 1537	Ottawa.....	6-02-13	3580	$\phi = 43^{\circ} 6 N$ $\lambda = 29^{\circ} 5 W$ O = 6-02-11	
	Strasbourg.....	6-02-15	2800		
	Chicago.....	6-02-14	4600		
	Toronto.....	6-02-05	3980		
	Algiers.....	6-01-57	2920		
	Barcelona.....	6-02-15	2590		
	Paris.....	6-02-14	2510		
	Uccle.....	6-02-10	2640		
	Agram.....	6-01-56	3650		
	Pulkovo.....	6-02-08	4280		
	Hamburg.....	6-02-07	3040		
	De Bilt.....	6-02-09	2720		
	Coimbra.....	6-02-41	1550		
Cartuja.....	6-02-12	2330			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
July 20 1539	Strasbourg.....	15-02-29	6000	$\phi = 0^{\circ} \cdot 5 \text{ S}$ $\lambda = 13^{\circ} \cdot 5 \text{ W}$ O = 15-02-38	
	Washington.....	15-02-49	7800		
	Algiers.....	15-02-34	4450		
	Helwan.....	15-02-44	5820		
	Paris.....	15-02-44	5680		
	Athens.....	15-02-38	5740		
	La Paz.....	15-02-33	6240		
	Uccle.....	15-02-35	6000		
	Agram.....	15-02-39	5920		
	Pulkovo.....	15-02-49	7650		
	Hamburg.....	15-02-41	6390		
	De Bilt.....	15-02-37	6180		
	Barcelona.....	15-02-32	4950		
	Innsbruck.....	15-02-16	6080		
	Coimbra.....	15-02-35	4520		
	Wien.....	15-02-38	6240		
	Cartuja.....	15-02-34	4320		
Ekaterinburg.....	15-03-06	9030			
Moncalieri.....	15-02-37	5520			
July 22 1541	Ottawa.....	14-18-07	7320	$\phi = 52^{\circ} \cdot 0 \text{ N}$ $\lambda = 171^{\circ} \cdot 6 \text{ E}$ O = 14-18-12	
	Strasbourg.....	14-18-14	8640		
	Cheltenham.....	14-17-25	7880		
	Honolulu.....	14-17-41	4260		
	Sitka.....	14-18-45	2880		
	Washington.....	14-18-08	7860		
	Chicago.....	14-18-18	6800		
	Victoria.....	14-17-59	4220		
	Toronto.....	14-17-46	7350		
	Coimbra.....	14-18-36	9060		
	Algiers.....	14-18-31	9450		
	Helwan.....	14-18-38	9420		
	Ithaca.....	14-18-00	7600		
	Paris.....	14-18-10	8720		
	Zi-ka-wei.....	14-18-46	3950		
	Georgetown.....	14-18-14	7800		
	Moncalieri.....	14-18-04	9200		
	Wien.....	14-18-09	8600		
	Ekaterinburg.....	14-18-15	6490		
	Kobe.....	14-18-34	3180		
	Uccle.....	14-18-05	8540		
	Agram.....	14-18-06	8900		
	Cartuja.....	14-18-22	9860		
	Berkeley.....	14-18-47	4720		
	Pulkovo.....	14-17-52	7300		
	Hamburg.....	14-18-06	8150		
	De Bilt.....	14-18-03	8440		
Barcelona.....	14-18-28	9230			
Belgrade.....	14-17-50	9200			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
July 23 1542	Tucson.....	7-30-42	610	$\phi = 35^\circ \text{ N}$ $\lambda = 117^\circ \text{ W}$ O = 7-30-45 Location approximate.	
	Chicago.....	7-30-20	2650		
	Ekaterinburg.....	7-31-14	9350		
July 31 1547	Honolulu.....	15-07-49	4120	$\phi = 52^\circ \cdot 5 \text{ N}$ $\lambda = 174^\circ \cdot 5 \text{ E}$ O = 15-07-56	
	Chicago.....	15-08-08	6900		
	Victoria.....	15-07-55	4300		
	Agram.....	15-08-10	8800		
	Pulkovo.....	15-08-10	7050		
	Ekaterinburg.....	15-07-26	6460		
Aug. 1 1549	Strasbourg.....	8-16-31	2050	$\phi = 35^\circ \cdot 7 \text{ N}$ $\lambda = 26^\circ \cdot 5 \text{ E}$ O = 8-16-31	Pulkovo gives $\phi = 36^\circ \cdot 2 \text{ N}$ $\lambda = 26^\circ \cdot 1 \text{ E}$ Ekaterinburg gives $\phi = 35^\circ 53' \text{ N}$ $\lambda = 27^\circ 17' \text{ E}$.
	Algiers.....	8-16-30	1980		
	Helwan.....	8-16-36	720		
	Paris.....	8-16-40	2300		
	Athens.....	8-16-42	315		
	Uccle.....	8-16-32	2360		
	Besangon.....	8-16-36	2030		
	Innsbruck.....	8-16-49	1610		
	Eskdalemuir.....	8-16-29	2950		
	Barcelona.....	8-16-32	2080		
	De Bilt.....	8-16-25	2460		
	Coimbra.....	8-16-34	2820		
	Hamburg.....	8-16-26	2360		
	Cartuja.....	8-16-31	2500		
	Pulkovo.....	8-16-31	2640		
	Ekaterinburg.....	8-15-59	3400		
Aug. 8 1554	Strasbourg.....	12-01-35	7550	$\phi = 12^\circ \cdot 8 \text{ N}$ $\lambda = 63^\circ \cdot 5 \text{ W}$ O = 12-01-28	
	Victoria.....	12-01-31	6760		
	Ithaca.....	12-01-57	3140		
	Georgetown.....	12-01-31	3170		
	Chicago.....	12-01-25	3950		
	Toronto.....	12-01-26	3680		
	Uccle.....	12-01-29	7380		
	De Bilt.....	12-01-28	7480		
	Coimbrra.....	12-00-40	6500		
	Pulkovo.....	12-01-35	8940		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 8 1555	Strasbourg.....	12-17-32	6400	$\phi = 3^{\circ} \text{ S}$ $\lambda = 22^{\circ} \text{ W}$ O = 12-17-24 Location approximate.	
	Algiers.....	12-17-29	5000		
	Paris.....	12-17-26	6180		
	Uccle.....	12-17-26	6400		
	Wien.....	12-17-21	7020		
	Barcelona.....	12-17-18	5550		
	De Bilt.....	12-17-13	6780		
	Coimbra.....	12-17-20	4880		
	Cartuja.....	12-17-27	4690		
	Pulkovo.....	12-17-28	8450		
Ekaterinburg.....	12-17-24	9820			
Aug. 10 1556	De Bilt.....	2-17-21	5420	$\phi = 38^{\circ} \text{ N}$ $\lambda = 74^{\circ} \text{ E}$ O = 2-17-18 Location approximate.	Ekaterinburg gives $\phi = 38^{\circ} 26' \text{ N}$ $\lambda = 76^{\circ} 34' \text{ E}$
	Pulkovo.....	2-17-24	3780		
	Ekaterinburg.....	2-17-10	2340		
Aug. 10 1557	Strasbourg.....	15-57-54	8250	$\phi = 21^{\circ} \text{ N}$ $\lambda = 91^{\circ} \text{ E}$ O = 15-58-10	Ekaterinburg gives $\phi = 23^{\circ} 36' \text{ N}$ $\lambda = 91^{\circ} 23' \text{ E}$.
	Algiers.....	15-58-22	8450		
	Uccle.....	15-58-15	8000		
	Wien.....	15-58-16	7180		
	De Bilt.....	15-58-17	7900		
	Pulkovo.....	15-58-05	6390		
	Ekaterinburg.....	15-57-58	4450		
Aug. 12 1561	Strasbourg.....	10-06-28	9400	$\phi = 25^{\circ} \text{ N}$ $\lambda = 129^{\circ} \text{ E}$ O = 10-06-16	
	Victoria.....	10-06-12	9120		
	Uccle.....	10-06-33	9370		
	Zi-ka-wei.....	10-06-19	900		
	Mizusawa.....	10-06-12	1930		
	Wien.....	10-06-02	9440		
	Belgrade.....	10-05-58	9600		
	De Bilt.....	10-06-25	9400		
	Hamburg.....	10-06-22	9230		
	Pulkovo.....	10-06-07	8070		
	Aug. 16 1563	Mizusawa.....	20-22-49			970	$\phi = 45^{\circ} \text{ N}$ $\lambda = 151^{\circ} \text{ E}$ O = 20-22-20 Location approximate.	Ekaterinburg gives $\phi = 46^{\circ} 28' \text{ N}$ $\lambda = 152^{\circ} 25' \text{ E}$.
De Bilt.....		20-22-37	8700		
Pulkovo.....		20-21-32	7180		
Ekaterinburg.....		20-22-26	5890		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 17 1564	Victoria.....	1-05-20	9440	$\phi = 24^{\circ} S$ $\lambda = 72^{\circ} W$ O = 1-05-07	
	Algiers.....	1-04-48	10560		
	Rio de Janeiro.....	1-04-50	2820		
	La Paz.....	1-05-23	900		
	Coimbra.....	1-05-14	9500		
Aug. 28 1571	Ottawa.....	23-15-17	3470	$\phi = 24^{\circ} 4 N$ $\lambda = 106^{\circ} 0 W$ O = 23-15-06	
	Sitka.....	23-14-25	4350		
	Tucson.....	23-14-33	1120		
	Honolulu.....	23-14-24	5120		
	Victoria.....	23-14-30	3120		
	Ithaca.....	23-15-23	3230		
	Paris.....	23-15-22	9300		
	Toronto.....	23-15-20	3140		
	Chicago.....	23-15-17	2600		
	Rio de Janeiro.....	23-15-21	8800		
	La Paz.....	23-14-58	6540		
	Uccle.....	23-15-26	9210		
	De Bilt.....	23-15-25	9220		
Hamburg.....	23-15-48	8950			
Sept. 1 1573	Ottawa.....	2-58-59	9760	$\phi = 35^{\circ} 1 N$ $\lambda = 140^{\circ} 2 E$ O = 2-58-36	Uccle gives $\phi = 36^{\circ} N$ $\lambda = 142^{\circ} E$. Pulkovo gives $\phi = 34^{\circ} 9' N$ $\lambda = 139^{\circ} 6' E$. Ekaterinburg gives $\phi = 35^{\circ} 17' N$ $\lambda = 138^{\circ} 57' E$.
	Saskatoon.....	2-58-35	8520		
	Halifax.....	2-58-55	10050		
	Helwan.....	2-58-43	9340		
	Berkeley.....	2-58-29	8480		
	Lick.....	2-58-23	8720		
	Paris.....	2-58-42	9560		
	Tucson.....	2-58-40	9580		
	Honolulu.....	2-58-30	6280		
	Cheltenham.....	2-58-36	10750		
	Sitka.....	2-57-58	6980		
	Ithaca.....	2-59-12	9700		
	Chicago.....	2-59-05	9480		
	Northfield.....	2-59-18	9660		
	Toronto.....	2-58-37	10180		
	Victoria.....	2-58-24	7900		
	Georgetown.....	2-58-00	10650		
	Taihoku.....	2-58-29	2090		
	Osaka.....	2-58-42	380		
	Perth.....	2-58-54	7620		
	Sydney.....	2-58-43	7680		
	Wellington.....	2-58-57	8920		
	Jinsen.....	2-58-01	1090		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 1 1573	Lemberg.....	2-58-32	8780		
	Strasbourg.....	2-58-36	9470		
	Agram.....	2-58-37	9280		
	München.....	2-58-28	9500		
	Zi-ka-wei.....	2-58-29	1770		
	Uccle.....	2-58-33	9470		
	Batavia.....	2-58-21	5750		
	La Paz.....	2-58-32	16500		
	Innsbruck.....	2-58-54	9150		
	Wien.....	2-58-21	9400		
	De Bilt.....	2-58-32	9340		
	Belgrade.....	2-58-30	9340		
	Hamburg.....	2-58-20	9280		
	Cartuja.....	2-58-30	11300		
	Pulkovo.....	2-58-32	7670		
Ekaterinburg.....	2-58-28	6110			
Sept. 2 1574	Ottawa.....	2-47-11	9560	$\phi = 35^{\circ} \cdot 2 \text{ N}$	Uccle gives
	Helwan.....	2-46-57	9300	$\lambda = 139^{\circ} \cdot 8 \text{ E}$	$\phi = 38^{\circ} \text{ N}$
	Sitka.....	2-46-37	6550	$O = 2-46-48$	$\lambda = 142^{\circ} \text{ E.}$
	Tucson.....	2-46-23	9675		
	Honolulu.....	2-46-45	6080		
	Paris.....	2-47-01	9380		
	Victoria.....	2-46-39	7700		
	Osaka.....	2-47-08	415		
	Berkeley.....	2-46-40	8260		
	Jinsen.....	2-46-39	1320		
	Wien.....	2-46-42	9230		
	Strasbourg.....	2-46-59	9280		
	Uccle.....	2-46-51	9330		
	Batavia.....	2-46-57	5450		
	Sydney.....	2-46-34	7780		
	Manila.....	2-46-03	3060		
	Lemberg.....	2-46-45	8680		
	Wellington.....	2-47-03	8920		
	Zi-ka-wei.....	2-46-55	1690		
	Innsbruck.....	2-47-07	9160		
	Eskdalemuir.....	2-46-52	9200		
	De Bilt.....	2-46-47	9300		
	Sarajevo.....	2-46-51	9300		
	Hamburg.....	2-46-42	9090		
	Cartuja.....	2-47-00	11220		
	Pulkovo.....	2-46-44	7670		
	Ekaterinburg.....	2-46-38	6130		Ekaterinburg gives $\phi = 34^{\circ} 9' \text{ N}$ $\lambda = 137^{\circ} 38' \text{ E.}$

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 2 1575	Helwan.....	9-27-16	9220	$\phi = 35^{\circ} \cdot 5 \text{ N}$ $\lambda = 140^{\circ} \text{ E}$ O = 9-27-02	Pulkovo gives $\phi = 35^{\circ} \cdot 8 \text{ N}$ $\lambda = 141^{\circ} \cdot 7 \text{ E}$. Ekaterinburg gives $\phi = 35^{\circ} 40' \text{ N}$ $\lambda = 139^{\circ} 29' \text{ E}$.
	Paris.....	9-27-18	9300		
	Honolulu.....	9-26-53	6110		
	Chicago.....	9-27-21	9480		
	Victoria.....	9-26-56	7600		
	Jinsen.....	9-27-02	1300		
	Strasbourg.....	9-27-07	9300		
	Batavia.....	9-26-52	5660		
	Uccle.....	9-27-05	9280		
	Zi-ka-wei.....	9-26-51	1830		
	Innsbruck.....	9-27-26	9050		
	Eskdalemuir.....	9-27-04	9160		
	De Bilt.....	9-27-01	9250		
	Hamburg.....	9-26-57	9020		
Pulkovo.....	9-26-55	7690			
Ekaterinburg.....	9-26-33	6300			
Sept. 2 1576	Strasbourg.....	13-09-25	9340	$\phi = 37^{\circ} \text{ N}$ $\lambda = 142^{\circ} \text{ E}$ O = 13-09-16 Location approximate.	Ekaterinburg gives $\phi = 36^{\circ} 9' \text{ N}$ $\lambda = 138^{\circ} 57' \text{ E}$
	Mizusawa.....	13-09-07	520		
	Wien.....	13-09-18	9050		
	De Bilt.....	13-09-19	9250		
	Pulkovo.....	13-09-18	7560		
	Ekaterinburg.....	13-09-09	6040		
Sept. 2 1577	Strasbourg.....	14-16-23	9450	$\phi = 36^{\circ} \cdot 0 \text{ N}$ $\lambda = 141^{\circ} \cdot 0 \text{ E}$ O = 14-16-25	Ekaterinburg gives $\phi = 34^{\circ} 23' \text{ N}$ $\lambda = 137^{\circ} 58' \text{ E}$.
	Zi-ka-wei.....	14-16-21	1810		
	Mizusawa.....	14-16-32	470		
	Pulkovo.....	14-16-32	7600		
	Ekaterinburg.....	14-16-17	6160		
Sept. 2 1578	Paris.....	22-38-28	9220	$\phi = 13^{\circ} \text{ S}$ $\lambda = 66^{\circ} \text{ W}$ O = 22-38-30 Location approximate.	
	Washington.....	22-38-03	5960		
	Toronto.....	22-38-08	6480		
	Victoria.....	22-38-14	8700		
	Algiers.....	22-38-23	9000		
	Rio de Janeiro.....	22-38-08	2500		
	Strasbourg.....	22-38-47	9230		
	Uccle.....	22-38-40	9230		
	Besançon.....	22-38-44	9150		
	Innsbruck.....	22-38-54	9300		
	Eskdalemuir.....	22-38-34	9150		
	De Bilt.....	22-38-46	9230		
	Hamburg.....	22-38-54	9340		
Cartuja.....	22-38-21	8740			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 9 1581	Helwan.....	22-03-45	5740	$\phi = 24^{\circ} \cdot 2 \text{ N}$ $\lambda = 90^{\circ} \cdot 0 \text{ E}$ $O = 22-03-50$	Pulkovo gives $\phi = 24^{\circ} \cdot 4 \text{ N}$ $\lambda = 89^{\circ} \cdot 1 \text{ E}$.
	Paris.....	22-03-53	7800		
	Algiers.....	22-03-54	8150		
	Osaka.....	22-03-52	4220		
	Athens.....	22-03-46	6350		
	Strasbourg.....	22-03-49	7430		
	Uccle.....	22-03-46	7690		
	Lemberg.....	22-04-20	5900		
	Zi-ka-wei.....	22-03-32	2990		
	Eskdalemuir.....	22-03-57	7900		
	Barcelona.....	22-03-55	8060		
	De Bilt.....	22-03-49	7580		
	Belgrade.....	22-03-50	6540		
	Hamburg.....	22-03-47	7240		
Cartuja.....	22-03-48	8920			
Pulkovo.....	22-03-42	5950			
Sept. 11 1584	Strasbourg.....	9-07-55	2660	$\phi = 45^{\circ} \text{ N}$ $\lambda = 28^{\circ} \text{ W}$ $O = 9-07-36$ Location approximate.	
	Uccle.....	9-07-53	2430		
	De Bilt.....	9-07-39	2560		
	Ekaterinburg.....	9-06-57	5780		
Sept. 17 1589	Helwan.....	7-08-53	2700	$\phi = 38^{\circ} \text{ N}$ $\lambda = 59^{\circ} \text{ E}$ $O = 7-09-06$	
	Athens.....	7-08-49	3030		
	Strasbourg.....	7-09-41	3600		
	Uccle.....	7-09-1	4340		
	Innsbruck.....	7-09-00	3950		
	Wien.....	7-09-08	3420		
	Belgrade.....	7-09-02	3250		
	Hamburg.....	7-09-10	3920		
Pulkovo.....	7-09-07	3100			
Sept. 22 1598	Helwan.....	20-47-37	2450	$\phi = 30^{\circ} \text{ N}$ $\lambda = 56^{\circ} \cdot 5 \text{ E}$ $O = 20-47-37$	Pulkovo gives $\phi = 30^{\circ} 19' \text{ N}$ $\lambda = 55^{\circ} 37' \text{ E}$.
	Paris.....	20-47-38	4950		
	Algiers.....	20-47-41	4850		
	Athens.....	20-47-08	3420		
	Strasbourg.....	20-47-52	4350		
	Uccle.....	20-47-33	4870		
	Lemberg.....	20-47-51	3250		Ekaterinburg gives $\phi = 29^{\circ} 41' \text{ N}$ $\lambda = 54^{\circ} 25' \text{ E}$.
	Zi-ka-wei.....	20-47-40	6110		
	Mizusawa.....	20-47-56	7390		
	Innsbruck.....	20-47-31	4320		
	Wien.....	20-47-20	4040		
	Barcelona.....	20-47-52	4800		
	De Bilt.....	20-47-41	4820		
	Belgrade.....	20-47-38	3500		
	Hamburg.....	20-47-17	4780		
	Cartuja.....	20-47-46	5500		
	Pulkovo.....	20-47-36	3780		
	Ekaterinburg.....	20-47-30	3050		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 26 1603	Algiers.....	2-29-01	5250	$\phi = 1^{\circ} 8' N$ $\lambda = 33^{\circ} W$ O = 2-29-15	
	Rio de Janeiro.....	2-29-55	2620		
	Strasbourg.....	2-29-17	6450		
	La Paz.....	2-29-34	4370		
	Cartuja.....	2-28-29	5450		
	Pulkovo.....	2-29-19	8350		
	Ekaterinburg.....	2-29-13	10070		
Sept. 26 1604	Paris.....	8-24-10	9350	$\phi = 34^{\circ} N$ $\lambda = 138^{\circ} E$ O = 8-23-50	Ekaterinburg gives $\phi = 42^{\circ} 19' N$ $\lambda = 149^{\circ} 19' E.$
	Victoria.....	8-23-40	7850		
	Strasbourg.....	8-23-50	9560		
	Zi-ka-wei.....	8-23-52	1630		
	Mizusawa.....	8-23-11	780		
	Innsbruck.....	8-24-0	9400		
	Wien.....	8-23-43	9300		
	Belgrade.....	8-24-03	9000		
	Hamburg.....	8-23-56	9000		
	Pulkovo.....	8-24-06	7450		
	Ekaterinburg.....	8-23-46	6100		
Sept. 27 1605	Zi-ka-wei.....	7-01-18	2440	$\phi = 10^{\circ} N$ $\lambda = 129^{\circ} E$ O = 7-01-14	
	Pulkovo.....	7-01-10	9500		
	Ekaterinburg.....	7-01-14	7730		
Sept. 30 1608	Ottawa.....	1-20-56	3040	$\phi = 53^{\circ} 0' N$ $\lambda = 33^{\circ} 3' W$ O = 1-20-33	
	Fordham.....	1-20-19	3280		
	Honolulu.....	1-20-58	10350		
	Tucson.....	1-20-49	6400		
	Cheltenham.....	1-20-37	3620		
	Sitka.....	1-20-26	6260		
	Porto Rico.....	1-20-45	4720		
	Ithaca.....	1-21-04	3000		
	Washington.....	1-20-40	3660		
	Northfield.....	1-21-16	2820		
	Chicago.....	1-20-55	3960		
	Victoria.....	1-19-27	6680		
	Georgetown.....	1-20-34	3700		
	Algiers.....	1-20-41	3200		
	Athens.....	1-20-34	4560		
	Strasbourg.....	1-20-02	3140		
	La Paz.....	1-20-44	8700		
	Uccle.....	1-20-40	2490		
	Lemberg.....	1-20-26	4560		
	Moncalieri.....	1-20-46	2930		
	Besançon.....	1-20-50	2780		
	Wien.....	1-19-35	4280		
	Barcelona.....	1-20-36	2970		
	De Bilt.....	1-20-29	2600		
	Belgrade.....	1-19-27	4850		
	Hamburg.....	1-20-16	3040		
	Pulkovo.....	1-20-47	3660		
	Ekaterinburg.....	1-20-47	5450		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 7 1613	Honolulu.....	3-29-28	8360	$\phi = 1^\circ \text{ N}$ $\lambda = 127^\circ \text{ E}$ O = 3-29-33 Location approximate.	
	Melbourne.....	3-28-8	4560		
	Wellington.....	3-29-33	6340		
	Zi-ka-wei.....	3-29-52	3290		
	Mizusawa.....	3-29-40	4460		
	Pulkovo.....	3-29-52	10250		
	Ekaterinburg.....	3-29-38	8820		
Oct. 10 1615	Ottawa.....	7-11-08	4460	$\phi = 70^\circ \cdot 0 \text{ N}$ $\lambda = 14^\circ \cdot 0 \text{ W}$ O = 7-11-11	Uccle gives $\phi = 70^\circ \text{ N}$ $\lambda = 14^\circ \cdot 5 \text{ W}$.
	Toronto.....	7-10-57	4850		
	Helwan.....	7-11-11	5220		
	Ithaca.....	7-11-25	4520		
	Paris.....	7-11-19	2560		
	Georgetown.....	7-10-57	5350		
	Tucson.....	7-10-42	7120		
	Cheltenham.....	7-10-52	5310		
	Washington.....	7-11-13	5360		
	Chicago.....	7-11-06	5320		
	Algiers.....	7-11-15	3800		
	Athens.....	7-11-08	4100		
	Strasbourg.....	7-10-54	2840		
	Uccle.....	7-11-22	2340		
	Königsberg.....	7-11-12	2380		
	Lemberg.....	7-11-00	2960		
	Cartuja.....	7-11-18	3680		
	Moncalieri.....	7-11-27	2900		
	Pulkovo.....	7-11-04	2320		
	Besançon.....	7-11-17	2770		
	Innsbruck.....	7-11-16	2850		
	Stonyhurst.....	7-12-1	1810		
	Wien.....	7-11-08	2920		
	Ekaterinburg.....	7-11-11	3410		
	Barcelona.....	7-11-07	3370		
	De Bilt.....	7-11-18	2270		
Coimbra.....	7-11-21	3300			
Belgrade.....	7-10-40	3700			
Hamburg.....	7-11-12	2260			
Nov. 2 1628	Sitka.....	21-08-49	9230	$\phi = 1^\circ \text{ S}$ $\lambda = 157^\circ \text{ E}$ O = 21-08-48 Location approximate.	Apia gives $\phi = 6^\circ \text{ S}$ $\lambda = 156^\circ \text{ E}$. Ekaterinburg gives $\phi = 1^\circ 27' \text{ S}$ $\lambda = 151^\circ 35' \text{ E}$.
	Tucson.....	21-08-47	10050		
	Honolulu.....	21-08-53	5520		
	Victoria.....	21-08-57	9000		
	Wellington.....	21-08-45	4120		
	Apia.....	21-08-38	3810		
	Zi-ka-wei.....	21-08-49	4370		
	Lick.....	21-09-32	8620		
	Berkeley.....	21-09-07	9200		
	Pulkovo.....	21-08-25	12000		
Ekaterinburg.....	21-08-08	10200			

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 3 1631	Ottawa.....	8-37-43	2820	$\phi = 19^\circ \text{ N}$ $\lambda = 72^\circ \text{ W}$ O = 8-37-48	
	Ithaca.....	8-37-44	2560		
	Toronto.....	8-37-21	2890		
	Washington.....	8-37-45	2170		
	Chicago.....	8-38-03	2620		
	Porto Rico.....	8-37-53	660		
	Georgetown.....	8-37-44	2220		
	La Paz.....	8-37-41	3930		
	Port au Prince.....	8-37-43	225		
	Moncalieri.....	8-38-02	7500		
Coimbra.....	8-38-07	6150			
Nov. 3 1632	Victoria.....	16-19-19	8680	$\phi = 29^\circ.3 \text{ N}$ $\lambda = 130^\circ.5 \text{ E}$ O = 16-19-19	
	Jinsen.....	16-19-49	990		
	Strasbourg.....	16-19-09	9700		
	Kobe.....	16-19-32	700		
	Uccle.....	16-19-14	9650		
	Zi-ka-wei.....	16-19-24	810		
	Moncalieri.....	16-19-32	9660		
	Innsbruck.....	16-19-01	10120		
	Eskdalemuir.....	16-19-09	9780		
	Wien.....	16-19-18	9250		
	De Bilt.....	16-19-13	9660		
	Belgrade.....	16-19-09	9440		
	Pulkovo.....	16-19-20	7780		
	Ekaterinburg.....	16-19-15	6080		
Nov. 4 1633	Victoria.....	0-04-57	9350	$\phi = 4^\circ \text{ S}$ $\lambda = 154^\circ \text{ E}$ O = 0-04-32	
	Honolulu.....	0-04-18	6050		
	Jinsen.....	0-04-25	5380		
	Taihoku.....	0-04-21	4740		
	Wellington.....	0-04-35	4340		
	Apia.....	0-04-31	3820		
	Zi-ka-wei.....	0-04-18	5200		
	Berkeley.....	0-04-40	10050		
	Ekaterinburg.....	0-04-41	10230		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 5 1639	Kobe.....	21-27-56	750	$\phi = 28^{\circ} \cdot 5$ N $\lambda = 132^{\circ} \cdot 5$ E O = 21-57-55	Taihoku gives $\phi = 28^{\circ} 45'$ N $\lambda = 130^{\circ} 15'$ E. Ekaterinburg gives $\phi = 25^{\circ} 44'$ N $\lambda = 127^{\circ} 18'$ E.
	Helwan.....	21-28-01	9100		
	Paris.....	21-28-16	9450		
	Jinsen.....	21-26-07	1330		
	Victoria.....	21-28-29	8440		
	Athens.....	21-27-5	9650		
	Pulkovo.....	21-27-45	8000		
	Ekaterinburg.....	21-27-42	6240		
	Strasbourg.....	21-28-15	9150		
	Uccle.....	21-27-53	9660		
	Taihoku.....	21-27-45	1100		
	Zi-ka-wei.....	21-27-38	960		
	Innsbruck.....	21-28-0	9650		
	Eskdalemuir.....	21-28-19	9380		
	Stonyhurst.....	21-28-5	9400		
	Wien.....	21-27-50	9320		
Coimbra.....	21-27-43	10430			
Belgrade.....	21-28-07	9050			
Hamburg.....	21-28-21	9080			
Cartuja.....	21-28-10	10420			
Nov. 6 1641	Zi-ka-wei.....	19-19-18	1040	$\phi = 30^{\circ}$ N $\lambda = 132^{\circ} \cdot 5$ E O = 19-18-34	Ekaterinburg gives $\phi = 28^{\circ} 44'$ N $\lambda = 129^{\circ} 38'$ E.
	Pulkovo.....	19-18-39	7750		
	Ekaterinburg.....	19-18-32	6110		
	Jinsen.....	19-18-45	910		
	Kobe.....	19-18-36	830		
Nov. 17 1653	Ottawa.....	2-52-49	7120	$\phi = 51^{\circ}$ N $\lambda = 180^{\circ}$ W O = 2-53-02	
	Toronto.....	2-53-19	6800		
	Victoria.....	2-53-16	3650		
	Georgetown.....	2-52-24	7920		
	Zi-ka-wei.....	2-53-09	5220		
	Pulkovo.....	2-53-14	7430		
Nov. 18 1654	Victoria.....	21-29-19	9680	$\phi = 23^{\circ}$ N $\lambda = 129^{\circ}$ E O = 21-29-25 Location doubtful.	
	Jinsen.....	21-29-19	1630		
	Pulkovo.....	21-29-38	7750		
	Ekaterinburg.....	21-29-23	6040		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 25 1657	Strasbourg.....	17-02-9	10050	$\phi = 23^\circ \text{ N}$ $\lambda = 120^\circ \text{ E}$ O = 17-03-16 Location approximate.	Ekaterinburg gives $\phi = 22^\circ.7 \text{ N}$ $\lambda = 118^\circ.7 \text{ E}$.
	Uccle.....	17-03-33	9340		
	Zi-ka-wei.....	17-03-12	850		
	De Bilt.....	17-03-21	9540		
	Pulkovo.....	17-03-23	7770		
	Ekaterinburg.....	17-03-17	6000		
Dec. 5 1663	Ottawa.....	20-56-56	7640	$\phi = 40^\circ.5 \text{ N}$ $\lambda = 24^\circ.8 \text{ E}$ O = 20-56-43	Uccle gives $\phi = 39^\circ \text{ N}$. $\lambda = 23^\circ \text{ E}$. Ekaterinburg gives $\phi = 41^\circ 41' \text{ N}$ $\lambda = 22^\circ 51' \text{ E}$.
	Algiers.....	20-56-56	1750		
	Athens.....		225		
	Barcelona.....	20-56-27	1950		
	Belgrade.....	20-57-23	450		
	Cartuja.....	20-56-36	2450		
	Coimbra.....	20-56-44	3180		
	Hamburg.....	20-56-42	1900		
	La Paz.....	20-57-38	11700		
	Strasbourg.....	20-56-32	1750		
	Uccle.....	20-56-41	1970		
	Wien.....	20-56-57	1050		
	Ekaterinburg.....	20-56-35	3160		
	Pulkovo.....	20-57-02	2100		
	Mostar.....	20-56-45	675		
	Sarajevo.....	20-56-47	680		
	Sinj.....	20-56-53	680		
	Travnik.....	20-57-08	510		
	Helwan.....	20-57-22	1030		
	Ithaca.....	20-56-06	8300		
Lemberg.....	20-55-51	1420			
Eskdalemuir.....	20-56-47	2520			
Innsbruck.....	20-55-44	1820			
Stonyhurst.....	20-56-52	2510			
Dec. 5 1664	Osaka.....	22-34-16	4800	$\phi = 5^\circ.5 \text{ S}$ $\lambda = 117^\circ.5 \text{ E}$ O = 22-34-47 Location and O approximate.	
	Ekaterinburg.....	22-35-06	8420		
	Pulkovo.....	22-35-11	10550		
	Kobe.....	22-34-34	4820		
Dec. 7 1665	Ekaterinburg.....	15-53-11	5530	$\phi = 54^\circ \text{ N}$ $\lambda = 160^\circ \text{ E}$ O = 15-53-08	
	Pulkovo.....	15-53-11	6640		
	Kobe.....	15-53-02	2900		

LOCATION OF EPICENTRES, 1923

Date	Station	O	Δ	Epicentre	Other Locations
Dec. 14 1668	Ottawa.....	10-30-55	5080	$\phi = 0^\circ$ $\lambda = 79^\circ.2$ W O = 10-31-16	
	Cartuja.....	10-31-20	8850		
	La Paz.....	10-31-19	2200		
	Rio de Janeiro.....	10-31-30	4370		
Dec. 27 1675	Hamburg.....	14-38-45	9400	$\phi = 36^\circ.2$ N $\lambda = 143^\circ.8$ E O = 14-38-57	Pulkovo gives $\phi = 35^\circ 14'$ N $\lambda = 139^\circ 44'$ E.
	Strasbourg.....	14-38-46	9800		
	Wien.....	14-39-25	8980		
	Zi-ka-wei.....	14-38-54	1950		Ekaterinburg gives $\phi = 35^\circ 45'$ N. $\lambda = 139^\circ 22'$ E.
	Pulkovo.....	14-39-01	7650		
	Irkutsk.....	14-38-33	3480		
	Kobe.....	14-39-05	580		
	Tyosi.....	14-39-17	75		
	Eskdalemuir.....	14-39-12	9140		
	Nagasaki.....	14-39-08	980		
Ekaterinburg.....	14-38-24	6100	Irkutsk gives $\phi = 40^\circ 44'$ N $\lambda = 142^\circ 38'$ E.		
Dec. 28 1676	Cartuja.....	22-24-43	6110	$\phi = 42^\circ$ N $\lambda = 70^\circ$ E O = 22-24-43	Ekaterinburg gives $\phi = 41^\circ 16'$ N $\lambda = 70^\circ 11'$ E.
	Hamburg.....	22-24-32	4700		
	Ekaterinburg.....	22-24-24	1860		
	Pulkovo.....	22-24-45	3300		Pulkovo gives $\phi = 39^\circ 12'$ N $\lambda = 64^\circ 55'$ E.
	Irkutsk.....	22-25-18	2680		
	Helwan.....	22-24-38	3520		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 7 1678	Pulkovo.....	9-55-45	7240	$\phi = 55^{\circ}.5$ N $\lambda = 158^{\circ}.2$ W O = 9-55-55	Pulkovo gives Alaska.
	Ekaterinburg.....	9-55-40	7040		
	Uccle.....	9-56.3	7960		
	Victoria.....	9-55-57	2500		
Jan. 10 1679	Ekaterinburg.....	23-43-49	5750	$\phi = 42^{\circ}$ N $\lambda = 140^{\circ}$ E O = 23-43-55 Location approximate.	
	Pulkovo.....	23-43-57	7450		
	Mizusawa.....	23-44-01	270		
Jan. 14 1682	Ottawa.....	20-51-07	9300	$\phi = 36^{\circ}.5$ N $\lambda = 139^{\circ}.2$ E O = 20-50-30	Felt in Tokyo and Yokohama. Pulkovo gives $\phi = 36^{\circ} 23'$ N $\lambda = 138^{\circ} 41'$ E. Ekaterinburg gives $\phi = 35^{\circ} 19'$ N $\lambda = 137^{\circ} 34'$ E.
	Belgrade.....	20-50-21	9150		
	Hamburg.....	20-50-22	8950		
	Strasbourg.....	20-50-41	9120		
	Sydney.....	20-50-16	7760		
	Toronto.....	20-51-17	9230		
	Uccle.....	20-50-31	9200		
	Victoria.....	20-50-32	7460		
	Wien.....	20-50-15	9150		
	Zi-ka-wei.....	20-50-09	1790		
	Dairen.....	20-50-49	1730		
	Zürich.....	20-50-40	9160		
	Rocca di Papa.....	20-50-46	9250		
	Ksara.....	20-50-34	8800		
	Sarajevo.....	20-50-31	9150		
	Jinsen.....	20-51-55	1150		
	Pulkovo.....	20-50-27	7480		
	Otomari.....	20-49-52	1475		
	Mizusawa.....	20-50-24	420		
	Batavia.....	20-50-11	5600		
	Helwan.....	20-50-31	9240		
	Lemberg.....	20-49-48	8920		
	Manila.....	20-49-01	3750		
	Paris.....	20-50-45	9220		
	Perth.....	20-50-00	8250		
	Eskdalemuir.....	20-50-40	8980		
	Firenze.....	20-50-58	9080		
	Innsbruck.....	20-50-00	9980		
	Königsberg.....	20-50-26	8350		
	Nagasaki.....	20-50-20	910		
Naples.....	20-51-05	9000			
Stonyhurst.....	20-50-25	9250			
Wellington.....	20-51-10	8800			
Jan. 16 1684	Osaka.....	21-37-50	7650	$\phi = 22^{\circ}.5$ S $\lambda = 177^{\circ}.5$ E O = 21-37-59	Zürich gives $\phi = 15^{\circ}$ N $\lambda = 155^{\circ}$ E.
	Sydney.....	21-37-59	2810		
	Batavia.....	21-37-56	7750		
	Perth.....	21-38-12	5920		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 21 1686	Eskdalemuir.....	1-52-49	7280	$\phi = 57^\circ \text{ N}$ $\lambda = 150^\circ \cdot 5 \text{ E}$ O = 1-52-53	Pulkovo gives $\phi = 57^\circ 10' \text{ N}$ $\lambda = 150^\circ 19' \cdot 4 \text{ E}$. Ekaterinburg gives $\phi = 55^\circ \cdot 6 \text{ N}$ $\lambda = 149^\circ \cdot 4 \text{ E}$. Zürich gives $\phi = 57^\circ \text{ N}$ $\lambda = 152^\circ \text{ E}$.
	Innsbruck.....	1-53-00	7750		
	Königsberg.....	1-52-53	6710		
	Batavia.....	1-52-53	7650		
	Helwan.....	1-52-56	8720		
	Paris.....	1-52-55	7800		
	Barcelona.....	1-52-45	8650		
	Cartuja.....	1-53-01	9050		
	Hamburg.....	1-52-49	7240		
	Osaka.....	1-53-05	2350		
	Strasbourg.....	1-52-55	7700		
	Uccle.....	1-52-58	7500		
	Wien.....	1-52-47	7660		
	Rocca di Papa.....	1-52-56	8200		
	Pulkovo.....	1-52-50	5990		
	Ekaterinburg.....	1-52-48	5060		
	Zürich.....	1-52-48	7920		
	Toledo.....	1-52-50	8870		
	Tyosi.....	1-52-41	2220		
	Ootomari.....	1-52-56	1285		
Mizusawa.....	1-52-59	1910			
Tortosa.....	1-52-55	8650			
Jan. 29 1688	Ottawa.....	1-55-02	8120	$\phi = 28^\circ \cdot 5 \text{ S}$ $\lambda = 74^\circ \cdot 5 \text{ W}$ O = 1-54-57	La Paz gives La Serena, Chile.
	Georgetown.....	1-54-54	7460		
	La Paz.....	1-54-23	1520		
	Toronto.....	1-54-58	7950		
	Victoria.....	1-54-56	9820		
	Ithaca.....	1-54-51	7900		
	Wellington.....	1-55-33	9280		
Feb. 13 1693	Ekaterinburg.....	22-50-21	8460	$\phi = 4^\circ \text{ N}$ $\lambda = 125^\circ \text{ E}$ O = 22-50-48 Location approximate.	Manila gives Celebes sea.
	Pulkovo.....	22-50-50	9520		
	Manila.....	22-51-14	1440		
Feb. 18 1698	Athens.....	17-03-20	1350	$\phi = 36^\circ \text{ N}$ $\lambda = 36^\circ \cdot 8 \text{ E}$ O = 17-03-49	Ekaterinburg gives $\phi = 36^\circ 10' \text{ N}$ $\lambda = 35^\circ 44' \text{ E}$. Pulkovo gives $\phi = 36^\circ \text{ N}$ $\lambda = 35^\circ \text{ E}$. Königsberg gives $\phi = 36^\circ \text{ N}$ $\lambda = 38^\circ \text{ E}$.
	Cartuja.....	17-03-54	3550		
	Hamburg.....	17-03-27	3000		
	Strasbourg.....	17-03-53	2610		
	Uccle.....	17-03-48	2920		
	Wien.....	(17-03-35)	2270		
	Zürich.....	17-03-52	2510		
	Toledo.....	17-04-02	3200		
	Pulkovo.....	17-03-57	2690		
	Helwan.....	17-03-53	600		
	Firenze.....	17-04-20	2020		
	Innsbruck.....	17-03-49	2380		
	Königsberg.....	17-03-48	2510		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 19 1699	Athens.....	6-59-48	2200	$\phi = 40^\circ \text{ N}$ $\lambda = 48^\circ \cdot 5 \text{ E}$ O = 6-59-48	Pulkovo reports quake felt at Lenkoran, Persia.
	Belgrade.....	6-59-46	2400		
	Cartuja.....	6-59-46	4550		
	Uccle.....	6-59-4	3650		
	Zürich.....	6-59-53	3120		
	Toledo.....	6-59-49	4280		
	Pulkovo.....	6-59-55	2540		
	Helwan.....	6-59-45	1930		
	Eskdalemuir.....	6-59-33	4120		
Königsberg.....	7-00-17	2550	Königsberg gives $\phi = 37^\circ \text{ N}$ $\lambda = 48^\circ \text{ E.}$		
Feb. 24 1702	Victoria.....	5-45-17	560	$\phi = 44^\circ \cdot 2 \text{ N}$ $\lambda = 127^\circ \cdot 2 \text{ W}$ O = 5-45-20	
	Ekaterinburg.....	5-45-13	8720		
	Pulkovo.....	5-45-31	8150		
Mar. 4 1706	Ottawa.....	10-07-40	3900	$\phi = 10^\circ \cdot 5 \text{ N}$ $\lambda = 84^\circ \text{ W}$ O = 10-07-49	Hamburg, Victoria, Inns- bruck and Wellington give San Jose, Costa Rica.
	Algiers.....	10-07-54	9060		
	Athens.....	10-07-48	10050		
	Barcelona.....	10-08-09	8840		
	Cartuja.....	10-07-51	8600		
	Georgetown.....	10-07-29	3250		
	Hamburg.....	10-07-48	9380		
	La Paz.....	10-07-51	3230		
	Strasbourg.....	10-07-45	9340		
	Toronto.....	10-07-34	3700		
	Uccle.....	10-07-49	9060		
	Victoria.....	10-07-26	5880		
	Wien.....	10-08-10	9500		
	Tortosa.....	10-07-49	8950		
	San Fernando.....	10-07-46	8450		
	Zürich.....	10-07-47	9400		
	Padova.....	10-07-57	9550		
	Rocca di Papa.....	10-07-58	9700		
	Cheltenham.....	10-08-03	3040		
	Ithaca.....	10-07-38	3600		
	Paris.....	10-07-53	8940		
	Rio de Janeiro.....	10-07-40	5720		
	Tucson.....	10-07-36	3660		
Naples.....	10-08-04	9000			
Innsbruck.....	10-07-55	9620			
Porto Rico.....	10-07-53	2220			
Mar. 4 1707	Porto Rico.....	11-43-52	2220	$\phi = 10^\circ \text{ N}$ $\lambda = 84^\circ \cdot 5 \text{ W}$ O = 11-44-02	La Paz gives Costa Rica.
	Tucson.....	11-44-56	3140		
	Ottawa.....	11-43-54	3780		
	Cartuja.....	11-44-03	8630		
	La Paz.....	11-43-43	3350		
St asbourg.....	11-43-43	9440			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 11 1715	Algiers.....	10-41-23	9000	$\phi = 10^\circ \text{ N}$ $\lambda = 84^\circ \text{ W}$ O = 10-41-18	Wien gives $\phi = 2^\circ \text{ N}$ $\lambda = 77^\circ \text{ W}$. Toledo gives Costa Rica.
	Cartuja.....	10-41-27	8500		
	Hamburg.....	10-41-30	9200		
	La Paz.....	10-41-02	3410		
	Strasbourg.....	10-41-17	9300		
	Wien.....	10-41-14	9980		
	Porto Rico.....	10-41-01	2320		
	Toledo.....	10-41-14	8550		
Mar. 12 1719	Strasbourg.....	13-52-31	2810	$\phi = 75^\circ \text{ N}$ $\lambda = 7^\circ.8 \text{ E}$ O = 13-52-38	Zürich gives $\phi = 82^\circ \text{ N}$ $\lambda = 0^\circ \text{ E}$. Strasbourg gives Arctic ocean—vicinity Spitz- bergen.
	Uccle.....	13-52-47	2420		
	Wien.....	13-52-23	3000		
	Baku.....	13-52-43	4300		
	Paris.....	13-52-46	2640		
Mar. 15 1722	Athens.....	10-31-23	8680	$\phi = 47^\circ.2 \text{ N}$ $\lambda = 140^\circ.8 \text{ E}$ O = 10-31-21	Strasbourg gives $\phi = 47^\circ \text{ N}$ $\lambda = 142^\circ \text{ E}$. Cartuja and Belgrade give Sakhalin I. Zürich gives $\phi = 48^\circ \text{ N}$ $\lambda = 145^\circ \text{ E}$.
	Belgrade.....	10-31-34	8120		
	Cartuja.....	10-30-56	10010		
	Georgetown.....	10-31-38	9280		
	Strasbourg.....	10-31-21	8400		
	Sydney.....	10-31-25	9210		
	Uccle.....	10-31-25	8200		
	Victoria.....	10-31-10	6520		
	Wien.....	10-31-15	8200		
	Zi-ka-wei.....	10-31-40	2390		
	Taihoku.....	10-31-03	3360		
	Toledo.....	10-31-35	9320		
	Jinsen.....	10-31-46	1640		
	Ootomari.....	10-31-22	260		
	Baku.....	10-31-16	7050		
	Batavia.....	10-31-19	7100		
	Helwan.....	10-31-31	8840		
	Honolulu.....	10-31-04	6300		
	Manila.....	10-31-12	4250		
	Paris.....	10-31-51	8160		
	Perth.....	10-31-30	9300		
	Sitka.....	10-30-51	5560		
	Firenze.....	10-31-18	8700		
Innsbruck.....	10-31-20	8420			
Wellington.....	10-31-03	10700			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 16 1723	La Paz..... Strasbourg..... Toronto..... Uccle..... Paris.....	1-21-45 1-22-49 1-23-46 1-22-52 1-21-9	2210 9400 4320 9060 9900	$\phi = 2^{\circ} \text{ N}$ $\lambda = 76^{\circ} \text{ W}$ O = 1-22-37	
Mar. 16 1724	Eskdalemuir..... Helwan..... Paris..... Algiers..... Toledo..... Cartuja..... Hamburg..... Strasbourg.....	10-17-42 10-17-05 10-17-10 10-17-18 10-17-20 10-17-29 10-17-46 10-17-08	2220 2620 1670 360 1040 880 1860 1680	$\phi = 34^{\circ} \text{ N}$ $\lambda = 4^{\circ} 8' \text{ E}$ O = 10-17-22	Königsberg gives Algiers. Toledo gives $\phi = 34^{\circ} 5' \text{ N}$ $\lambda = 7^{\circ} \text{ E}$.
Mar. 24 1729	Ottawa..... Cartuja..... La Paz..... Strasbourg..... Porto Rico.....	20-28-16 20-29-04 20-29-30 20-29-12 20-29-07	4300 8700 3050 9310 2300	$\phi = 7^{\circ} \text{ N}$ $\lambda = 83^{\circ} \text{ W}$ O = 20-29-02	Zürich gives off coast of Columbia.
Mar. 25 1731	Ottawa..... Cartuja..... Hamburg..... La Paz..... Strasbourg..... Toronto..... Uccle..... Wien..... Toledo..... Moncalieri..... Paris..... Porto Rico.....	14-06-49 14-07-04 14-06-55 14-06-42 14-06-54 14-06-15 14-07-02 14-07-06 14-07-01 14-07-12 14-07-06 14-06-43	3900 8450 9480 3380 9350 4220 9010 9750 8520 9350 8850 2300	$\phi = 10^{\circ} 5' \text{ N}$ $\lambda = 84^{\circ} 5' \text{ W}$ O = 14-06-54	Strasbourg and Toledo give Central America.
Mar. 25 1732	Ottawa..... Cartuja..... Hamburg..... La Paz..... Strasbourg..... Toledo.....	15-03-00 15-03-35 15-03-46 15-03-05 15-03-25 15-03-29	4060 8550 9150 3560 9300 8520	$\phi = 10^{\circ} 5' \text{ N}$ $\lambda = 86^{\circ} \text{ W}$ O = 15-03-23	
April 13 1745	Osaka..... Sydney..... Zi-ka-wei.....	13-48-06 13-48-02 13-48-09	4000 5050 3120	$\phi = 3^{\circ} 5' \text{ N}$ $\lambda = 116^{\circ} \text{ E}$ O = 13-48-06	Batavia gives NE. Borneo.

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
April 14 1747	Belgrade.....	16-21-30	9500	$\phi = 6^{\circ} 8' N$ $\lambda = 122^{\circ} 5' E$ O = 16-20-32	Manila gives $\phi = 6^{\circ} 58' N$ $\lambda = 126^{\circ} 12' E$
	Osaka.....	16-20-02	3500		
	Strasbourg.....	16-20-42	11080		
	Wien.....	16-20-33	10750		
	Zi-ka-wei.....	16-20-45	2480		
	Sydney.....	16-20-20	5210		
	Ksara.....	16-20-44	9500		
	Tyosi.....	16-20-05	3680		
	Mizusawa.....	16-20-36	3660		
	Cheltenham.....	16-20-29	14300		
	Honolulu.....	16-20-05	8900		
	Perth.....	16-20-34	4280		
	Helwan.....	16-21-03	9440		
	Tucson.....	16-20-15	12100		
Porto Rico.....	16-20-23	16700			
April 20 1752	Algiers.....	14-26-56	5400	$\phi = 15^{\circ} 5' N$ $\lambda = 53^{\circ} E$ O = 14-26-55	Königsberg gives $\phi = 15^{\circ} N$ $\lambda = 50^{\circ} E.$
	Athens.....	14-27-03	3600		
	Cartuja.....	14-27-00	6000		
	Hamburg.....	14-26-57	5680		
	Strasbourg.....	14-26-55	5500		
	Ucele.....	14-26-56	5870		
	Wien.....	14-26-52	4950		
	Tortosa.....	14-27-12	5630		
	Toledo.....	14-26-54	6150		
	Moncalieri.....	14-26-31	5380		
	San Fernando.....	14-26-17	6640		
	Batavia.....	14-27-01	6450		
	Helwan.....	14-26-48	2810		
	Paris.....	14-27-02	5800		
	Eskdalemuir.....	14-26-59	6500		
	Innsbruck.....	14-27-02	5100		
Königsberg.....	14-27-08	5070			
April 21 1753	Ottawa.....	20-01-09	3440	$\phi = 20^{\circ} N$ $\lambda = 100^{\circ} W$ O = 20-01-04	
	Barcelona.....	20-01-03	9370		
	Cartuja.....	20-00-54	9350		
	Georgetown.....	20-00-31	3480		
	La Paz.....	20-00-43	5320		
	Strasbourg.....	20-01-03	9650		
	Toronto.....	20-00-55	3180		
	Ucele.....	20-01-07	9220		
	Toledo.....	20-01-03	9160		
	Moncalieri.....	20-00-21	9970		
	Tortosa.....	20-01-13	9280		
	Cheltenham.....	20-01-23	3050		
	Honolulu.....	20-01-19	5700		
	Paris.....	20-01-13	9100		
	Tucson.....	20-01-29	1720		
Denver.....	20-01-17	1750			
Porto Rico.....	20-01-20	3420			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
April 29 1759	Hamburg.....	20-51-45	8220	$\phi = 52^\circ \text{ N}$ $\lambda = 170^\circ \text{ W}$ O = 20-51-42	
	Osaka.....	20-51-31	3240		
	Strasbourg.....	20-51-48	8700		
	Uccle.....	20-52-0	8320		
	Zi-ka-wei.....	20-51-01	4600		
	Innsbruck.....	20-52-11	8250		
May 1 1763	Ottawa.....	19-54-20	3690	$\phi = 12^\circ.5 \text{ N}$ $\lambda = 88^\circ \text{ W}$ O = 19-54-27	
	Algiers.....	19-54-33	9200		
	Barcelona.....	19-54-29	9100		
	Cartuja.....	19-54-29	8740		
	Georgetown.....	19-54-02	3120		
	Hamburg.....	19-54-30	9320		
	La Paz.....	19-54-08	3900		
	Strasbourg.....	19-54-37	9150		
	Toronto.....	19-54-25	3350		
	Uccle.....	19-54-24	9090		
	Victoria.....	19-54-17	5030		
	Wien.....	19-54-48	9480		
	Toledo.....	19-54-23	8560		
	Tortosa.....	19-54-30	8680		
	San Fernando.....	19-54-30	8560		
	Zürich.....	19-54-42	9230		
	Padova.....	19-54-42	9300		
	Moncalieri.....	19-55-05	9060		
	Honolulu.....	19-54-11	6780		
	Halifax.....	19-54-22	4140		
	Ithaca.....	19-53-36	3900		
	Paris.....	19-54-27	9060		
	Rio de Janeiro.....	19-54-20	6300		
	Sitka.....	19-54-16	6450		
	Innsbruck.....	19-54-7	9400		
	Königsberg.....	19-54-56	9370		
Porto Rico.....	19-54-37	2330			
Stonyhurst.....	19-54-28	8600			
May 4 1766	Ottawa.....	16-57-55	6180	$\phi = 55^\circ \text{ N}$ $\lambda = 165^\circ \text{ W}$ O = 16-58-21	
	Barcelona.....	16-58-26	9210		
	Firenze.....	16-58-39	8820		
	Tortosa.....	16-58-25	9190		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
May 6 1771	Athens.....	16-09-53	9080	$\phi = 15^\circ \text{ N}$ $\lambda = 119^\circ.5 \text{ E}$ $O = 16-09-29$	
	Belgrade.....	16-09-50	9150		
	Hamburg.....	16-09-03	9900		
	Osaka.....	16-09-15	2700		
	Wien.....	16-09-29	9600		
	Zi-ka-wei.....	16-09-31	1650		
	Ksara.....	16-09-29	8550		
	Jinsen.....	16-09-09	2590		
	Mizusawa.....	16-09-22	3190		
	Helwan.....	16-09-35	8850		
	Lemberg.....	16-09-04	9200		
	Perth.....	16-09-55	4980		
	Innsbruck.....	16-09-42	9550		
May 13 1779	Innsbruck.....	1-51-50	3000	$\phi = 40^\circ \text{ N}$ $\lambda = 44^\circ \text{ E}$ $O = 1-52-14$ Location approximate.	Zürich gives Erzerum.
	Athens.....	1-51-39	2100		
	Cartuja.....	1-52-44	3880		
	Hamburg.....	1-52-13	2980		
	Toledo.....	1-52-44	3880		
May 17 1781	Toronto.....	5-25-14	8880	$\phi = 47^\circ \text{ N}$ $\lambda = 152^\circ \text{ E}$ $O = 5-24 \text{ ca.}$ Location approximate.	
	Victoria.....	5-30-51	6450		
	Wien.....	5-22-16	8980		
	Zi-ka-wei.....	5-17-54	2460		
May 21 1784	Ottawa.....	10-12-48	3600	$\phi = 14^\circ.5 \text{ N}$ $\lambda = 86^\circ \text{ W}$ $O = 10-12-38$	
	La Paz.....	10-13-08	3960		
	Toronto.....	10-12-52	3280		
	Victoria.....	10-11-46	4820		
May 27 1790	La Paz.....	10-13-46	3840	$\phi = 21^\circ \text{ N}$ $\lambda = 72^\circ \text{ W}$ $O = 10-13.5 \text{ ca.}$	Porto Rico gives Port de Paix, Haiti.
	Toronto.....	10-12-04	3270		
	Ithaca.....	10-14-32	2480		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
May 28 1792	Ottawa.....	9-52-00	7960	$\phi = 54^\circ \text{ N}$ $\lambda = 142^\circ \text{ E}$ O = 9-51-56	Zürich gives $\phi = 54^\circ \text{ N}$ $\lambda = 142^\circ \text{ E}$.
	Algiers.....	9-51-55	8740		
	Belgrade.....	9-51-34	7920		
	Cartuja.....	9-51-52	9200		
	Georgetown.....	9-51-58	8550		
	Hamburg.....	9-51-50	7350		
	Strasbourg.....	9-51-51	7850		
	Toronto.....	9-52-01	8000		
	Uccle.....	9-51-52	7720		
	Wien.....	9-51-52	7600		
	Osaka.....	9-52-28	1400		
	Zi-ka-wei.....	9-51-50	2300		
	Zürich.....	9-51-54	7920		
	Rocca di Papa.....	9-51-57	8220		
	Rome.....	9-51-53	8300		
	Otomari.....	9-51-52	430		
	Moncalieri.....	9-52-10	8060		
	Batavia.....	9-52-10	6180		
	Helwan.....	9-52-03	8250		
	Honolulu.....	9-52-03	5000		
Lemberg.....	9-51-43	7140			
Paris.....	9-51-54	7950			
Innsbruck.....	9-51-58	7760			
Königsberg.....	9-51-56	6780			
June 4 1795	Paris.....	16-09-33	9480	$\phi = 15^\circ \cdot 5 \text{ N}$ $\lambda = 95^\circ \cdot 5 \text{ W}$ O = 16-09-42	
	Hamburg.....	16-09-52	9450		
	Strasbourg.....	16-09-27	9860		
	Uccle.....	16-09-47	9230		
	Victoria.....	16-09-51	4400		
June 22 1803	Ottawa.....	22-29-04	4320	$\phi = 6^\circ \text{ N}$ $\lambda = 77^\circ \cdot 5 \text{ W}$ O = 22-29-05	
	La Paz.....	22-29-01	2620		
	Toronto.....	22-28-57	4200		
	Uccle.....	22-29-16	8880		
	Victoria.....	22-29-00	6350		
	Eskdalemuir.....	22-29-15	8500		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
June 30 1812	Ottawa.....	15-44-30	8780	$\phi = 47^{\circ}.5$ N $\lambda = 149^{\circ}$ E O = 15-44-30	Wien gives $\phi = 47^{\circ}$ N $\lambda = 150^{\circ}$ E. Chur gives $\phi = 47^{\circ}$ N $\lambda = 150^{\circ}$ E. Manila gives Pacific near Kurile Is.
	Algiers.....	15-44-27	9860		
	Barcelona.....	15-44-26	9500		
	Belgrade.....	15-44-29	8580		
	Cartuja.....	15-44-30	9950		
	Georgetown..	15-44-31	9340		
	Hamburg.....	15-44-21	8200		
	Osaka.....	15-44-53	1220		
	Strasbourg...	15-44-16	8780		
	Toronto.....	15-44-32	8780		
	Uccle.....	15-44-23	8580		
	Victoria.....	15-44-16	6250		
	Wien.....	15-44-26	8400		
	Zi-ka-wei...	15-44-32	2430		
	Moncalieri...	15-44-57	8950		
	Ksara.....	15-44-38	8470		
	Oxford.....	15-44-34	8580		
	Florence.....	15-44-30	8940		
	Rocca di Papa.....	15-44-32	9000		
	Tortosa.....	15-44-49	9150		
	Munich.....	15-44-28	8550		
	Naples.....	15-44-45	9050		
	Padova.....	.....	9000	
	Ischia.....	15-44-11	9050		
	Chur.....	15-44-26	8840		
	Otomari.....	15-44-27	420		
	Sarajevo.....	15-44-32	8740		
	Mizusawa.....	15-44-37	710		
	Batavia.....	15-44-22	6780		
	Cheltenham.....	15-44-46	9060		
Helwan.....	15-44-37	9000			
Ithaca.....	15-44-31	9000			
Lemberg.....	15-44-08	8200			
Paris.....	15-44-19	8940			
Sitka.....	15-44-17	5080			
Tucson.....	15-45-05	7820			
Eskdalemuir.....	15-44-23	8380			
Innsbruck.....	15-44-46	8260			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
July 3 1815	Ottawa.....	4-40-57	9560	$\phi = 36^\circ \text{ N}$	Stonyhurst and Strasbourg give Tibet.
	Stonyhurst.....	4-39-58	6710	$\lambda = 86^\circ \text{ E}$	
	Nagasaki.....	4-40-09	4020	O = 4-40-10	
	Königsberg.....	4-40-04	5050		Königsberg and Trenta give Himalayas.
	Firenze.....	4-39-48	6320		
	Eskdalemuir.....	4-40-05	6620		
	Helwan.....	4-40-04	4820		
	Manila.....	4-40-11	4260		
	Paris.....	4-40-18	6300		Zürich gives $\phi = 30^\circ \text{ N}$ $\lambda = 80^\circ \text{ E}$.
	Sitka.....	.....	8160		
	Perth.....	4-40-22	8260		
	Algiers.....	4-40-02	7140		
	Athens.....	4-40-00	5310		
	Barcelona.....	4-40-08	6850		
	Belgrade.....	4-39-47	5550		
	Cartuja.....	4-41-30	6820		
	Chicago.....	4-41-26	9520		
	Coimbra.....	4-40-02	7850		
	Hamburg.....	4-39-54	5980		
	Osaka.....	4-40-24	4350		
	Strasbourg.....	4-39-59	6220		
	Toronto.....	4-41-14	9550		
	Uccle.....	4-40-03	6320		
	Victoria.....	4-40-38	9580		
	Wien.....	4-39-52	5680		
	Zi-ka-wei.....	4-40-09	3300		
	Munich.....	4-40-02	5900		
	Toledo.....	4-40-03	7530		
	Valle di Pompei.....	4-38-50	5880		
	Kobe.....	4-40-12	4400		
Taihoku.....	4-40-00	3740			
Aberdeen.....	4-40-08	6460			
West Bromwich.....	4-40-05	6640			
Oxford.....	4-40-17	6500			
Mizusawa.....	4-40-05	4830			
Padova.....	4-39-10	5850			
Trenta.....	4-40-06	5880			
San Fernando.....	4-39-54	8050			
Tortosa.....	4-40-03	7100			
Rocca di Papa.....	4-39-58	6080			
Piacenza.....	4-40-11	6080			
Jinsen.....	4-40-06	3530			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
July 6 1818	Ottawa.....	14-18-32	4220	$\phi = 8^\circ \text{ N}$ $\lambda = 78^\circ \text{ W}$ O = 14-18-46	Königsberg and Wien give $\phi = 7^\circ \text{ N}$ $\lambda = 78^\circ \text{ W}$ Panama.
	Cartuja.....	14-18-44	8250		
	Chicago.....	14-18-41	3910		
	Coimbra.....	14-18-47	7780		
	Georgetown.....	14-18-39	3410		
	Hamburg.....	14-18-56	9100		
	La Paz.....		2920		
	Strasbourg.....	14-18-48	9100		
	Toronto.....	14-18-46	3840		
	Uccle.....	14-18-51	8820		
	Victoria.....	14-18-39	6280		
	Wien.....	14-18-44	9780		
	Toledo.....	14-18-41	8260		
	Rocca di Papa.....	14-18-54	9400		
	Tortosa.....	14-18-58	8480		
	Halifax.....	14-18-33	4400		
	Moncalieri.....	14-19-05	9150		
	Honolulu.....	14-19-04	8640		
	Ithaca.....	14-18-39	3810		
	Paris.....	14-18-43	8850		
	San Fernando.....	14-19-09	7800		
Rio de Janeiro.....	14-18-37	4920			
Eskdalemuir.....	14-18-51	8360			
Porto Rico.....	14-18-21	2020			
July 6 1819	Algiers.....	18-31-31	6200	$\phi = 43^\circ \text{ N}$ $\lambda = 75^\circ \text{ E}$ O = 18-31-43	Königsberg gives highlands of Pamir. Zürich gives $\phi = 37^\circ \text{ N}$ $\lambda = 70^\circ \text{ E}$. Belgrade gives Turkestan.
	Athens.....	18-31-06	4680		
	Barcelona.....	18-31-48	5770		
	Belgrade.....	18-31-46	4210		
	Cartuja.....	18-31-41	6650		
	Coimbra.....	18-31-48	6640		
	Hamburg.....	18-31-44	4780		
	Osaka.....	18-32-00	5300		
	Strasbourg.....	18-31-41	5070		
	Uccle.....	18-31-41	5280		
	Wien.....	18-31-23	4720		
	Zi-ka-wei.....	18-31-27	4120		
	Padova.....	18-30-44	4880		
	Oxford.....	18-32-05	5420		
	Tortosa.....	18-31-49	5900		
	Toledo.....	18-31-47	6320		
	San Fernando.....	18-32-13	6540		
	Bergen.....	18-32-21	4860		
	Moncalieri.....	18-32-05	5160		
	Helwan.....	18-31-32	4000		
	Paris.....	18-31-31	5650		
	Eskdalemuir.....	18-31-59	5650		
	Firenze.....	18-31-47	4920		
	Königsberg.....	18-31-42	4020		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
July 11 1826	Algiers.....	19-44-36	7050	$\phi = 38^\circ \text{ N}$ $\lambda = 86^\circ \text{ E}$ O = 19-44-37	Uccle gives $\phi = 38^\circ \text{ N}$ $\lambda = 86^\circ \text{ E}$. Eskdalemuir gives $\phi = 37^\circ \text{ N}$ $\lambda = 84^\circ \text{ E}$. Stonyhurst, Belgrade and Königsberg give Tibet.
	Barcelona.....	19-44-44	6760		
	Belgrade.....	19-44-36	5310		
	Cartuja.....	19-44-59	7420		
	Coimbra.....	19-44-47	7620		
	Hamburg.....	19-44-23	5980		
	La Paz.....	19-44-44	15760		
	Osaka.....	19-44-53	4400		
	Strasbourg.....	19-44-13	6450		
	Uccle.....	19-44-34	6280		
	Victoria.....	19-45-27	9250		
	Wien.....	19-44-55	5160		
	Zi-ka-wei.....	19-44-51	3180		
	Taihoku.....	19-44-49	3680		
	Aberdeen.....	19-44-24	6500		
	West Bromwich.....	19-44-43	6580		
	Tortosa.....	19-44-37	7040		
	Rocca di Papa.....	19-44-18	6280		
	Jinsen.....	.....	3450	
	Moncalieri.....	19-44-29	6380		
	Toledo.....	19-44-44	7340		
	San Fernando.....	19-44-03	8200		
	Padova.....	19-44-14	6340		
	München.....	19-44-31	5900		
	Piacenza.....	19-44-41	6080		
	Tyosi.....	19-44-54	4750		
	Neuchâtel.....	19-44-32	6300		
	Helwan.....	19-44-29	4880		
	Manila.....	19-44-40	4350		
	Paris.....	19-44-40	6420		
Sitka.....	.....	8750		
Eskdalemuir.....	19-44-46	6500			
Firenze.....	19-44-28	6220			
Innsbruck.....	19-44-15	6250			
Königsberg.....	19-44-14	6350			
Stonyhurst.....	19-44-38	6680			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Localities
July 12 1827	Ottawa.....	15-12-38	9890	$\phi = 41^\circ \text{ N}$ $\lambda = 72^\circ \cdot 5 \text{ E}$ O = 15-12-30	Zurich gives $\phi = 40^\circ \text{ N}$ $\lambda = 70^\circ \text{ E}$. Strasbourg and Uccle give Turkestan. Eskdalemuir gives $\phi = 40^\circ \text{ N}$ $\lambda = 72^\circ \text{ E}$.
	Algiers.....	15-12-02	6160		
	Barcelona.....	15-12-24	5870		
	Coimbra.....	15-12-23	6750		
	Hamburg.....	15-12-28	4800		
	Strasbourg.....	15-12-25	5100		
	Uccle.....	15-12-29	5250		
	Victoria.....	15-12-59	9560		
	Wien.....	15-12-37	4300		
	Zi-ka-wei.....	.....	4780	
	Rocca di Papa.....	15-12-34	4830		
	Padova.....	15-12-49	4600		
	Piacenza.....	15-12-18	5220		
	München.....	15-12-2	4750		
	Moncalieri.....	15-12-26	5180		
	Oxford.....	15-12-36	5520		
	Sa Fernando.....	15-12-17	6640		
	Tortosa.....	15-12-31	5960		
	Toledo.....	15-12-36	6300		
	Helwan.....	15-12-31	3840		
Paris.....	15-12-32	5400			
Eskdalemuir.....	15-12-26	5620			
Stonyhurst.....	15-12-34	5560			
Königsberg.....	15-12-28	4050			
July 22 1837	Ottawa.....	4-04-04	4880	$\phi = 2^\circ \text{ N}$ $\lambda = 76^\circ \cdot 5 \text{ W}$ O = 4-04-24	
	Cartuja.....	4-04-22	8420		
	Chicago.....	4-04-16	4450		
	Coimbra.....	4-04-33	7860		
	Georgetown.....	4-04-18	4080		
	Hamburg.....	4-04-46	9020		
	La Paz.....	4-04-22	1860		
	Toronto.....	4-04-13	4650		
	Uccle.....	4-04-37	8820		
	Victoria.....	4-04-08	6820		
	Oxford.....	4-04-23	8800		
	Toledo.....	4-04-18	8420		
	Ithaca.....	4-04-19	4520		
	Eskdalemuir.....	4-04-30	8720		
Stonyhurst.....	4-04-45	8520			
July 22 1839	Hamburg.....	14-24-02	9150	$\phi = 23^\circ \cdot 5 \text{ N}$ $\lambda = 122^\circ \text{ E}$ O = 14-24-06	Taihoku gives $\phi = 23^\circ \cdot 8 \text{ N}$ $\lambda = 122^\circ \cdot 3 \text{ E}$
	Uccle.....	14-24-01	9440		
	Wien.....	14-23-59	9080		
	Zi-ka-wei.....	14-23-55	810		
	Rocca di Papa.....	14-24-27	9060		
	Padova.....	14-24-39	9100		
	Piacenza.....	14-24-37	9200		
	Ootomari.....	14-23-30	3540		
	Jinsen.....	14-23-54	1560		
	Manila.....	14-23-51	1050		
	Eskdalemuir.....	14-24-07	9560		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
July 24 1841	Ottawa.....	5-02-57	8550	$\phi = 50^\circ \text{ N}$ $\lambda = 146^\circ \text{ E}$ O = 5-02-48	
	Algiers.....	5-02-39	9700		
	Chicago.....	5-02-41	8540		
	Toronto.....	5-02-56	8540		
Aug. 10 1851	Honolulu.....	6-12-12	5920	$\phi = 28^\circ \cdot 5 \text{ S}$ $\lambda = 178^\circ \cdot 5 \text{ W}$ O = 6-12-05 Location approximate.	
	Melbourne.....	6-11-7	3420		
	Victoria.....	6-12-17	9600		
	Zi-ka-wei.....	6-12-08	9220		
Aug. 13 1854	Eskdalemuir.....	13-30-30	8120	$\phi = 51^\circ \text{ N}$ $\lambda = 175^\circ \cdot 5 \text{ W}$ O = 13-30-28	
	Hamburg.....	13-30-39	8220		
	Paris.....	13-30-29	8840		
	Toronto.....	13-30-29	6760		
	Uccle.....	13-30-29	8620		
	Victoria.....	13-30-17	3660		
Aug. 13 1855	Eskdalemuir.....	23-57-56	7560	$\phi = 33^\circ \text{ N}$ $\lambda = 96^\circ \text{ E}$ O = 23-57-53	
	Paris.....	23-57-54	7460		
	Uccle.....	23-57-49	7310		
Aug. 14 1856	Ottawa.....	18-02-32	10140	$\phi = 37^\circ \text{ N}$ $\lambda = 141^\circ \cdot 5 \text{ E}$ O = 18-02-37	Zürich gives $\phi = 43^\circ \text{ N}$ $\lambda = 135^\circ \text{ E}$. Tyosi gives Kashima sea. Königsberg, Manila, Stras- bourg, Uccle, Toledo and Malaga give Japan.
	Batavia.....	18-02-41	5800		
	Belgrade.....	18-02-59	8880		
	Besançon.....	18-02-25	9980		
	Cartuja.....	18-02-43	10880		
	Chicago.....	18-02-32	9340		
	Eskdalemuir.....	18-02-40	9220		
	Hamburg.....	18-02-36	9080		
	Honolulu.....	18-02-24	6300		
	Königsberg.....	18-02-58	8160		
	Lemberg.....	18-02-5	8680		
	Manila.....	18-01-45	3740		
	Paris.....	18-02-47	9560		
	Stonyhurst.....	18-02-57	9400		
	Strasbourg.....	18-02-54	9450		
	Toronto.....	18-01-49	10600		
	Uccle.....	18-02-33	9560		
	Victoria.....	18-02-41	7380		
	Wien.....	18-03-13	8540		
	Zürich.....	18-02-45	9440		
	Ksara.....	18-02-57	8800		
	Nagasaki.....	18-01-56	1480		
	Tyosi.....		75		
	Bergen.....	18-01-53	9080		
	Jinsen.....	18-02-42	1380		
	Taihoku.....	18-02-26	2430		
	Firenze.....	18-02-35	8620		
	Oxford.....	18-02-44	9550		
Apia.....	18-03-12	7380			
Ootomari.....	18-03-21	840			
Padova.....	18-02-16	10150			
Mizusawa.....	18-02-42	310			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 14 1857	Batavia.....	23-27-27	5840	$\phi = 37^{\circ} \text{ N}$ $\lambda = 140^{\circ} \cdot 2 \text{ E}$ $O = 23-27-42$	Königsberg, Manila, and Malaga give Japan.
	Cartuja.....	23-28-07	10970		
	Eskdalemuir.....	23-27-33	9220		
	Hamburg.....	23-27-26	9100		
	Königsberg.....	23-27-32	8500		
	Stonyhurst.....	23-27-58	8800		
	Strasbourg.....	23-27-50	9280		
	Uccle.....	23-27-7	9150		
	Victoria.....	23-27-31	7380		
	Ksara.....	23-27-58	8800		
	Ootomari.....	23-28-08	840		
	Kobe.....	23-27-22	700		
	Mizusawa.....	23-27-35	280		
Jinsen.....	23-27-50	1220			
Aug. 17 1858	Eskdalemuir.....	1-46-16	9100	$\phi = 36^{\circ} \text{ N}$ $\lambda = 143^{\circ} \text{ E}$ $O = 1-46-00$	Königsberg gives $\phi = 35^{\circ} \text{ N}$ $\lambda = 150^{\circ} \text{ E}$.
	Uccle.....	1-46-2	9280		
	Victoria.....	1-45-50	7530		
	Zi-ka-wei.....	1-45-06	2410		
	Ootomari.....	1-45-35	880		
	Jinsen.....	1-47-03	1270		
Aug. 21 1861	Cartuja.....	18-50-46	10220	$\phi = 51^{\circ} \text{ N}$ $\lambda = 180^{\circ} \text{ W}$ $O = 18-50-53$	
	Uccle.....	18-51-1	8550		
	Zi-ka-wei.....	18-50-47	5180		
Aug. 25 1865	Ottawa.....	14-31-27	9400	$\phi = 36^{\circ} \text{ N}$ $\lambda = 142^{\circ} \cdot 2 \text{ E}$ $O = 14-31-02$	Königsberg gives $\phi = 35^{\circ} \text{ N}$ $\lambda = 145^{\circ} \text{ E}$. Tyosi reports quake felt there.
	Batavia.....	14-30-52	5960		
	Belgrade.....	14-30-55	9150		
	Eskdalemuir.....	14-31-02	9250		
	Hamburg.....	14-31-03	8940		
	Königsberg.....	14-31-01	8450		
	Manila.....	14-31-16	2850		
	Paris.....	14-31-03	9580		
	Stonyhurst.....	14-30-50	9550		
	Strasbourg.....	14-31-03	9520		
	Uccle.....	14-31-02	9350		
	Victoria.....	14-30-53	7480		
	Wien.....	14-31-06	9050		
	Zi-ka-wei.....	14-30-52	1980		
	Firenze.....	14-31-27	9400		
	Piacenza.....	14-31-06	9510		
	Nagasaki.....	.....	1295	
	Tyosi.....	.....	75	
Kobe.....	14-30-48	740			
Mizusawa.....	14-30-43	410			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 25 1866	Ottawa.....	23-06-58	7600	$\phi = 55^\circ \text{ N}$ $\lambda = 164^\circ \text{ E}$ O = 23-07-04	
	Cartuja.....	23-07-10	9600		
	Eskdalemuir.....	23-07-04	7700		
	Königsberg.....	23-07-16	7300		
	Paris.....	23-07-06	8280		
	Strasbourg.....	23-07-09	8260		
	Uccle.....	23-07-02	8100		
	Victoria.....	23-07-09	4750		
	Wien.....	23-07-00	8200		
	Piacenza.....	23-06-54	8720		
	Toledo.....	23-07-12	9230		
	Rocca di Papa.....	23-07-09	8820		
	Firenze.....	23-06-58	8800		
Mizusawa.....	23-06-56	2340			
Aug. 27 1867	Besançon.....	22-33-32	3040	$\phi = 63^\circ \text{ N}$ $\lambda = 25^\circ \cdot 5 \text{ W}$ O = 22-33-46 Location doubtful.	Malaga gives Iceland.
	Cartuja.....	22-33-42	2420		
	Eskdalemuir.....	22-33-52	2500		
	San Fernando.....	22-33-36	2330		
	Uccle.....	22-33-48	2810		
	Malaga.....	22-33-49	2390		
	Rocca di Papa.....	22-34-05	3230		
Aug. 30 1870	Hamburg.....	3-05-6	10000	$\phi = 12^\circ \text{ N}$ $\lambda = 125^\circ \cdot 5 \text{ E}$ O = 3-05-15	Königsberg gives $\phi = 25^\circ \text{ N}$ $\lambda = 130^\circ \text{ E}$ Zurich gives Liu Kiu I. Taihoku gives Mindanao.
	Batavia.....	3-04-42	2800		
	Helwan.....	3-05-30	9340		
	Honolulu.....	3-05-04	8220		
	Melbourne.....	3-04-4	5780		
	Perth.....	3-05-21	4280		
	Victoria.....	3-05-45	9750		
	Wien.....	3-05-47	9500		
	Zi-ka-wei.....	3-05-32	2120		
	Apia.....	3-05-02	7480		
	Ksara.....	3-05-09	9340		
	Mizusawa.....	3-05-03	3440		
	Nagasaki.....	3-05-31	2395		
	Tyosi.....	.....	2820	
Jinsen.....	.....	2820		
Sept. 4 1872	Cartuja.....	16-00-56	3330	$\phi = 65^\circ \text{ N}$ $\lambda = 25^\circ \cdot 2 \text{ W}$ O = 16-00-59	Paris, Pulkovo and Strasbourg give Iceland.
	Hamburg.....	16-00-48	2420		
	Paris.....	16-01-07	2330		
	Pulkovo.....	16-01-02	2800		
	Strasbourg.....	16-00-58	2620		
	Uccle.....	16-01-03	2230		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 6 1874	Ekaterinburg.....	4-50-55	2320	$\phi = 39^\circ \text{ N}$ $\lambda = 43^\circ \text{ E}$ O = 4-50-42	Ekaterinburg gives $\phi = 39^\circ 29' \text{ N}$ $\lambda = 42^\circ 49' \text{ E}$. Strasbourg gives sea of Marmora near Ksara.
	Hamburg.....	4-50-37	3020		
	Königsberg.....	4-50-57	2350		
	Pulkovo.....	4-50-53	2400		
	Ksara.....	4-50-09	1270		
Sept. 11 1884	Manila.....	3-24-24	1860	$\phi = 16^\circ \text{ N}$ $\lambda = 136^\circ 5 \text{ E}$ O = 3-25-21 Location doubtful.	Batavia gives Talaud I.
	Strasbourg.....	3-25-42	11260		
	Baku.....	3-25-50	8360		
	Taihoku.....	3-25-30	2280		
Sept. 13 1885	Ottawa.....	14-34-23	8740	$\phi = 40^\circ \text{ N}$ $\lambda = 43^\circ \text{ E}$ O = 14-34-08	Ekaterinburg gives $\phi = 40^\circ 16' \text{ N}$ $\lambda = 42^\circ 30' \text{ E}$. Pulkovo gives $\phi = 39^\circ 54' \text{ N}$ $\lambda = 45^\circ 04' \text{ E}$. St. Louis gives $\phi = 38^\circ 5 \text{ N}$ $\lambda = 45^\circ \text{ E}$. Helwan and Belgrade give Erzerum.
	Athens.....	14-34-05	1670		
	Barcelona.....	14-34-06	3280		
	Belgrade.....	14-34-05	1910		
	Cartuja.....	14-34-18	3680		
	Chicago.....	14-34-15	9380		
	Ekaterinburg.....	14-34-13	2260		
	Georgetown.....	14-34-23	9250		
	Hamburg.....	14-33-48	2980		
	Helwan.....	14-34-08	1490		
	Innsbruck.....	14-33-52	2690		
	Ithaca.....	14-34-09	9050		
	Königsberg.....	14-33-58	2390		
	Lemberg.....	14-34-0	1810		
	Osaka.....	14-34-01	8080		
	Paris.....	14-34-13	3120		
	Pulkovo.....	14-33-54	2440		
	San Fernando.....	14-34-00	4140		
	Stonyhurst.....	14-34-17	3420		
	Strasbourg.....	14-33-31	3080		
	Toronto.....	14-34-17	9050		
	Uccle.....	14-34-03	3120		
	Victoria.....	14-34-49	9440		
	Wien.....	14-35-16	1640		
	Moncalieri.....	14-34-44	2340		
	Firenze.....	14-34-09	2550		
	Mostar.....	14-34-20	1950		
	München.....	14-34-00	2620		
	Neuchâtel.....	14-33-53	2950		
	Padova.....	14-33-51	2660		
	Piacenza.....	14-34-42	2340		
	Rocca di Papa.....	14-33-10	2940		
Tortosa.....	14-34-03	3440			
Toledo.....	14-34-17	3550			
Malaga.....	14-34-20	3650			
St. Louis.....	14-33-30	10500			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 14 1887	Ekaterinburg.....	13-13-03	6800	$\phi = 50^{\circ}.5$ N $\lambda = 177^{\circ}.5$ E O = 13-13-07	Ekaterinburg gives $\phi = 48^{\circ} 59'$ N $\lambda = 175^{\circ} 25'$ E.
	Pulkovo.....	13-13-04	7390		
	Uccle.....	13-13-07	8700		
	Victoria.....	13-13-15	3840		
	Wien.....	13-12-36	9500		
	Ootomari.....	13-13-37	2300		
	Baku.....	13-13-06	8800		
Sept. 16 1888	Algiers.....	2-35-49	5740	$\phi = 40^{\circ}.5$ N $\lambda = 71^{\circ}.5$ E O = 2-35-51	Cartuja gives $\phi = 42^{\circ}.7$ N $\lambda = 72^{\circ}.3$ E. Königsberg gives highlands of Pamir.
	Cartuja.....	2-35-58	6300		
	Ekaterinburg.....	2-36-10	2040		
	Helwan.....	2-35-53	3580		
	Königsberg.....	2-36-06	3850		
	Pulkovo.....	2-35-58	3450		
	Uccle.....	2-36-00	5070		
	Wien.....	2-35-33	4560		
	Rocca di Papa.....	2-36-02	4735		
	Padova.....	2-36-04	4660		
	Tortosa.....	2-36-04	5680		
Baku.....	2-35-37	1970			
Sept. 17 1890	Ottawa.....	7-04-45	2640	$\phi = 22^{\circ}$ N $\lambda = 70^{\circ}.5$ W O = 7-04-28	
	Chicago.....	7-04-41	2700		
	Georgetown.....	7-04-39	2050		
	Ithaca.....	7-04-27	2520		
	La Paz.....	7-03-20	4420		
	Toronto.....	7-04-53	2470		
Sept. 18 1892	Ekaterinburg.....	1-08-40	6020	$\phi = 35^{\circ}.5$ N $\lambda = 138^{\circ}.5$ E O = 1-08-43 Location approximate.	Ekaterinburg gives $\phi = 37^{\circ} 38'$ N $\lambda = 140^{\circ} 43'$ E.
	Pulkovo.....	1-08-40	7530		
	Zi-ka-wei.....	1-08-55	1640		
	Kobe.....	1-08-35	545		
	Mizusawa.....	1-08-46	320		
	Tyosi.....		60		
Sept. 27 1897	Hamburg.....	4-27-00	3120	$\phi = 38^{\circ}$ N $\lambda = 42^{\circ}$ E O = 4-27-27	
	Königsberg.....	4-27-33	2360		
	Innsbruck.....	4-27-29	2620		
	Pulkovo.....	4-27-31	2380		
	Stonyhurst.....	4-27-26	3550		
	Wien.....	4-27-25	2320		
	Moncalieri.....	4-27-23	2720		
	Piacenza.....	4-27-33	2690		
	Baku.....	4-27-40	740		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Sept. 28 1899	Ottawa.....	13-34-15	3520	$\phi = 48^{\circ} \cdot 5$ N $\lambda = 28^{\circ}$ W O = 13-34-08	
	Algiers.....	13-34-02	2810		
	Barcelona.....	13-33-53	2580		
	Cartuja.....	13-34-07	2360		
	Paris.....	13-34-12	2290		
	San Fernando.....	13-34-06	2250		
	Strasbourg.....	13-34-14	2580		
	Uccle.....	13-34-13	2360		
Toledo.....	13-34-11	2110			
Oct. 8 1903	Algiers.....	20-32-45	7850	$\phi = 32^{\circ}$ N $\lambda = 90^{\circ}$ E O = 20-32-53	Ekaterinburg gives $\phi = 30^{\circ} 24'$ N $\lambda = 84^{\circ} 24'$ E.
	Cartuja.....	20-33-06	7680		
	Ekaterinburg.....	20-32-49	3470		
	Hamburg.....	20-32-46	6760		Königsberg and Toledo give Tibet.
	Helwan.....	20-32-51	5440		
	Königsberg.....	20-32-46	6000		
	Paris.....	20-32-52	7320		
	Pulkovo.....	20-32-51	5280		Pulkovo gives $\phi = 32^{\circ} \cdot 1$ N. $\lambda = 89^{\circ} \cdot 9$ E.
	Strasbourg.....	20-33-03	6850		
	Uccle.....	20-32-56	7100		
	Zi-ka-wei.....	20-33-03	2820		
	Firenze.....	20-33-03	6720		
	Tortosa.....	20-32-26	8080		
	Toledo.....	20-32-50	8280		
Kucino.....	20-33-10	4740			
Oct. 10 1904	Ekaterinburg.....	9-21-01	3840	$\phi = 70^{\circ}$ N $\lambda = 18^{\circ}$ W O = 9-21-08	
	Pulkovo.....	9-21-06	2450		
	Uccle.....	9-21-17	2470		
Oct. 12 1907	Algiers.....	19-33-53	5400	$\phi = 0^{\circ} \cdot 5$ S $\lambda = 30^{\circ} \cdot 5$ W O = 19-34-06	Ekaterinburg gives $\phi = 3^{\circ} 6'$ N $\lambda = 27^{\circ} 18'$ W, Isle of St. Paul.
	Cartuja.....	19-34-05	4950		
	Ekaterinburg.....	19-34-34	9590		
	Eskdalemuir.....	19-34-14	6620		Strasbourg gives Atlantic ocean, region of Isle of St. Paul.
	Helwan.....	19-33-55	7700		
	La Paz.....	19-33-53	4740		
	Paris.....	19-34-00	6370		
	Pulkovo.....	19-34-22	8330		
	San Fernando.....	19-33-50	4820		
	Strasbourg.....	19-34-05	6550		
	Uccle.....	19-34-09	6520		
	Wien.....	19-33-46	7280		
	Piacenza.....	19-34-03	6450		
	Rocca di Papa.....	19-33-57	6450		
	Toledo.....	19-34-04	5070		
	Almeria.....	19-34-07	4880		
	Kucino.....	19-34-05	8540		
Malaga.....	19-34-48	4740			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 13 1909	Athens.....	16-17-49	3740	$\phi = 37^\circ \text{ N}$ $\lambda = 67^\circ.5 \text{ E}$ O = 16-17-34	Ekaterinburg gives $\phi = 37^\circ 39' \text{ N}$ $\lambda = 67^\circ 53' \text{ E}$ Pulkovo gives $\phi = 37^\circ.2 \text{ N}$ $\lambda = 64^\circ.6 \text{ E}$
	Ekaterinburg.....	16-17-45	2200		
	Eskdalemuir.....	16-17-37	5510		
	Hamburg.....	16-17-16	5000		
	Königsberg.....	16-17-41	3950		
	Pulkovo.....	16-17-39	3490		
	Stonyhurst.....	16-17-38	5450		
	Strasbourg.....	16-17-08	5350		
	Uccle.....	16-17-33	5150		
	Toledo.....	16-17-33	6180		
Moncalieri.....	16-17-42	4980			
Oct. 14 1910	Ottawa.....	5-00-09	3530	$\phi = 22^\circ.5 \text{ N}$ $\lambda = 44^\circ.5 \text{ W}$ O = 5-00-12	Königsberg gives $\phi = 22^\circ \text{ N}$ $\lambda = 47^\circ \text{ W}$. Zürich gives $\phi = 25^\circ \text{ N}$ $\lambda = 43^\circ \text{ W}$. Strasbourg gives $\phi = 20^\circ \text{ N}$ $\lambda = 40^\circ \text{ W}$.
	Algiers.....	4-59-44	5000		
	Barcelona.....	5-00-15	4720		
	Ekaterinburg.....	5-00-21	8820		
	Georgetown.....	4-59-56	3530		
	Hamburg.....	5-00-09	5700		
	Königsberg.....	5-00-53	6080		
	La Paz.....	5-00-20	5020		
	Paris.....	5-00-10	4980		
	Porto Rico.....	5-00-37	1970		
	Pulkovo.....	5-00-18	6990		
	Tortosa.....	5-00-04	4720		
	Toledo.....	5-00-11	4150		
	Almeria.....	5-00-17	4220		
	Firenze.....	5-00-19	5520		
	San Fernando.....	4-59-57	4040		
	Stonyhurst.....	5-00-07	4900		
	Strasbourg.....	5-00-12	5380		
	Toronto.....	5-00-00	3840		
	Uccle.....	5-00-09	5200		
	Wien.....	5-00-07	6080		
	Rocca di Papa.....	5-00-15	5630		
	Piacenza.....	4-59-50	5660		
Padova.....	5-00-13	5680			
Moncalieri.....	5-00-13	5320			
Kucino.....	5-00-13	7630			

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 20 1917	Ottawa.....	19-52-56	7320	$\phi = 56^\circ \text{ N}$ $\lambda = 166^\circ \text{ E}$ O = 19-52-46	Ekaterinburg gives $\phi = 53.8 \text{ N}$ $\lambda = 164.9 \text{ E}$ Königsberg gives $\phi = 53^\circ \text{ N}$ $\lambda = 165^\circ \text{ E.}$ Zürich gives $\phi = 57^\circ \text{ N}$ $\lambda = 170^\circ \text{ E.}$ St. Louis gives $\phi = 55^\circ \text{ N}$ $\lambda = 166^\circ \text{ E.}$
	Algiers.....	19-52-30	9740		
	Athens.....	19-52-44	9100		
	Barcelona.....	19-52-56	9040		
	Cartuja.....	19-52-48	9650		
	Chicago.....	19-53-17	6950		
	Ekaterinburg.....	19-52-41	5800		
	Eskdalemuir.....	19-52-49	7680		
	Georgetown.....	19-52-47	7960		
	Hamburg.....	19-53-01	7460		
	Königsberg.....	19-52-52	7340		
	Osaka.....	19-52-35	3180		
	Paris.....	19-52-53	8300		
	Pulkovo.....	19-52-42	6620		
	San Fernando.....	19-53-34	9120		
	Strasbourg.....	19-52-41	8380		
	Uccle.....	19-52-44	8150		
	Victoria.....	19-52-31	4740		
	Wien.....	19-52-44	8250		
	Zi-ka-wei.....	19-52-42	4100		
	Mizusawa.....	19-52-45	2510		
	Piacenza.....	19-52-43	8800		
	Rocca di Papa.....	19-52-46	8940		
	Padova.....	19-52-48	8600		
	Moncalieri.....	19-53-37	8550		
	St. Louis.....	19-53-33	6960		
Sitka.....	19-52-45	3360			
Honolulu.....	19-53-58	4200			
Tortosa.....	19-52-44	9280			
Malaga.....	19-53-04	9800			
Toledo.....	19-52-55	9220			
Almeria.....	19-52-48	9450			
Firenze.....	19-52-07	9200			
Tyosi.....	19-52-55	2590			
Oct. 27 1920	Batavia.....	19-56-52	2540	$\phi = 8^\circ \text{ N}$ $\lambda = 126^\circ \text{ E}$ O = 19-57-09 Location approximate.	Ekaterinburg gives $\phi = 6^\circ 1' \text{ N}$ $\lambda = 122^\circ 31' \text{ E.}$
	Ekaterinburg.....	19-57-11	7770		
	Manila.....	19-56-42	1200		
	Osaka.....	19-57-34	3000		
	Pulkovo.....	19-57-16	9400		
	Zi-ka-wei.....	19-56-58	2690		
	Jinsen.....	19-57-06	2820		
	Mizusawa.....	19-57-22	3680		
	Moncalieri.....	19-57-00	12150		
Kucino.....	19-57-25	8950			
Nov. 1 1922	Ottawa.....	4-55-21	4180	$\phi = 9^\circ \text{ N}$ $\lambda = 86^\circ \text{ W}$ O = 4-55-26	
	Chicago.....	4-55-13	3690		
	Porto Rico.....	4-55-43	2470		
	Toronto.....	4-55-26	3810		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 20 1928	Algiers.....	20-26-41	2760	$\phi = 38^\circ \text{ N}$ $\lambda = 30^\circ \cdot 8 \text{ E}$ O = 20-27-33	Irkutsk gives $\phi = 41^\circ \cdot 3 \text{ N}$ $\lambda = 26^\circ \cdot 6 \text{ E}$ Pulkovo gives $\phi = 32^\circ \cdot 2 \text{ N}$ $\lambda = 30^\circ \cdot 3 \text{ E}$ Strasbourg, Wien and Königsberg give region of Afium Karahissar, Asia Minor.
	Athens.....	20-27-52	650		
	Belgrade.....	20-28-01	950		
	Cartuja.....	20-27-12	3200		
	Hamburg.....	20-27-35	2350		
	Helwan.....	20-28-03	830		
	Königsberg.....	20-27-35	2020		
	Paris.....	20-27-37	2510		
	Pulkovo.....	20-27-38	2360		
	Stonyhurst.....	20-27-35	2970		
	Strasbourg.....	20-27-36	2210		
	Uccle.....	20-27-34	2500		
	Wien.....	20-27-37	1620		
	Zürich.....	20-27-34	2100		
	Chur.....	20-27-36	2030		
	München.....	20-27-35	1950		
	Piacenza.....	20-27-22	2080		
	Toledo.....	20-27-26	3040		
	Almeria.....	20-27-04	3140		
	Malaga.....	20-27-13	3240		
Firenze.....	20-27-41	1800			
Moncalieri.....	20-27-40	1950			
Baku.....	20-27-40	1710			
Irkutsk.....	20-27-31	5750			
Dec. 9 1933	Ekaterinburg.....	11-54-25	8820	$\phi = 1^\circ \text{ S}$ $\lambda = 130^\circ \text{ E}$ O = 11-54-3 Location only roughly approximate.	
	Osaka.....	11-55-03	3250		
	Perth.....	11-54-20	3420		
	Irkutsk.....	11-53-09	7220		
Dec. 13 1937	Ekaterinburg.....	23-45-21	8760	$\phi = 14^\circ \text{ S}$ $\lambda = 107^\circ \text{ E}$ O = 23-44-50 Location doubtful	Baku gives $\phi = 51^\circ 31' \text{ N}$ $\lambda = 171^\circ 51' \text{ E}$.
	Baku.....	23-45-03	3360		
	Irkutsk.....	23-44-04	7530		
Dec. 27 1944	Ottawa.....	11-22-10	8900	$\phi = 46^\circ \text{ N}$ $\lambda = 144^\circ \text{ E}$ O = 11-22-13	Ekaterinburg gives $\phi = 50^\circ 27' \text{ N}$ $\lambda = 149^\circ 54' \text{ E}$ Pulkovo gives $\phi = 50^\circ 30' \text{ N}$ $\lambda = 156^\circ 20' \text{ E}$ Zurich gives $\phi = 48^\circ \text{ N}$ $\lambda = 148^\circ \text{ E}$ Irkutsk gives $\phi = 45^\circ \cdot 2 \text{ N}$ $\lambda = 143^\circ \cdot 2 \text{ E}$
	Athens.....	11-22-09	9000		
	Cartuja.....	11-22-24	9850		
	Chicago.....	11-21-57	8800		
	Ekaterinburg.....	11-22-05	5500		
	Georgetown.....	11-22-35	8880		
	Hamburg.....	11-22-10	8100		
	Innsbruck.....	11-22-12	8600		
	Königsberg.....	11-22-05	7620		
	Osaka.....	11-23-02	940		
	Paris.....	11-22-11	8750		
	Pulkovo.....	11-22-01	6830		
	Toronto.....	11-22-02	9000		
	Uccle.....	11-22-12	8500		
	Wien.....	11-22-06	8400		

LOCATION OF EPICENTRES, 1924

Date	Station	O	Δ	Epicentre	Other Locations
Dec. 27 1944	Zi-ka-wei.....	11-22-04	2400		Baku gives $\phi = 55^{\circ} 59' N$ $\lambda = 153^{\circ} 22' E.$
	Zürich.....	11-22-08	8720		
	Irkutsk.....	11-23-14	2160		
	München.....	11-22-14	8500		
	Naples.....	11-22-11	8900		
	Rocca di Papa.....	11-22-12	9000		
	Toledo.....	11-22-09	9740		
	Almeria.....	11-22-04	9600		
	Malaga.....	11-22-18	9820		
	Ootomari.....	11-22-13	325		
	Kobe.....	11-21-21	1690		
	Mizusawa.....	11-22-18	550		
	Moncalieri.....	11-22-35	8840		
	Kucino.....	11-22-05	6750		
	Baku.....	11-22-16	7120		
Dec. 28 1945	Ottawa.....	22-54-57	9250	$\phi = 43^{\circ} N$ $\lambda = 147^{\circ} E$ $O = 22-54-52$	Ekaterinburg gives $\phi = 48^{\circ} 49' N$ $\lambda = 153^{\circ} 40' E.$
	Belgrade.....	22-54-45	9280		
	Cartuja.....	22-54-42	10880		
	Ekaterinburg.....	22-55-00	5820		Irkutsk gives $\phi = 46^{\circ} 6' N$ $\lambda = 147^{\circ} 0' E.$
	Fordham.....	22-55-26	9300		
	Hamburg.....	22-55-05	8480		
	Honolulu.....	22-54-18	5930		Zürich gives $\phi = 43^{\circ} N$ $\lambda = 145^{\circ} E.$
	Innsbruck.....	22-55-08	8950		
	Königsberg.....	22-54-52	8200		
	La Paz.....	22-54-42	16470		St. Louis gives $\phi = 44^{\circ} N$ $\lambda = 150^{\circ} E.$
	Lemberg.....	22-55-1	8200		
	Naples.....	22-55-09	9200		
	Osaka.....	22-54-09	1800		
	Perth.....	22-55-00	8920		
	Toronto.....	22-54-34	9500		
	Uccle.....	22-55-00	9000		
	Wien.....	22-54-46	9060		
	Zi-ka-wei.....	22-55-02	2600		
	Irkutsk.....	22-54-39	3290		
	Zürich.....	22-55-04	9060		
	Firenze.....	22-54-11	9940		
	Sitka.....	22-54-43	5600		
	St. Louis.....	22-55-21	8980		
	München.....	22-54-57	9160		
	Rocca di Papa.....	22-54-58	9550		
	Malaga.....	22-53-38	11020		
	Almeria.....	22-54-59	9940		
	Toledo.....	22-55-05	10120		
	Taihoku.....	22-54-45	3150		
	Moncalieri.....	22-55-20	9580		
Baku.....	22-55-03	7580			
Mizusawa.....	22-55-17	560			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 5 1950	Ottawa.....	13-45-35	6480	$\phi = 13^{\circ} S$	
	Cartuja.....	13-45-50	8880	$\lambda = 71^{\circ} W$	
	Chicago.....	13-46-14	6180	O = 13-45-41	
	Georgetown.....	13-44-54	6150		
	La Paz.....	13-45-48	530		
	Toronto.....	13-45-40	6250		
	La Plata.....	13-45-8	2510		
Jan. 18 1957	Ottawa.....	12-06-08	8400	$\phi = 49^{\circ} N$	Strasbourg gives
	Algiers.....	12-06-31	9330	$\lambda = 154^{\circ} E$	$\phi = 48^{\circ} N$
	Athens.....	12-06-06	9050	O = 12-06-02	$\lambda = 155^{\circ} E.$
	Barcelona.....	12-06-20	9220		
	Batavia.....	12-06-00	7450		Uccle gives
	Belgrade.....	12-06-06	8620		$\phi = 48^{\circ} N$
	Cartuja.....	12-06-17	9440		$\lambda = 150^{\circ}.5 E.$
	Cheltenham.....	12-06-06	9010		
	Eskdalemuir.....	12-06-01	8270		Zürich gives
	Fordham.....	12-06-04	8980		$\phi = 49^{\circ} N$
	Georgetown.....	12-06-04	9000		$\lambda = 155^{\circ} E.$
	Hamburg.....	12-06-02	8160		
	Helwan.....	12-06-22	9120		Baku gives
	Honolulu.....	12-05-23	5420		$\phi = 55^{\circ} 56' N$
	Innsbruck.....	12-05-56	8780		$\lambda = 171^{\circ} 44' E.$
	Ithaca.....	12-06-54	8400		
	Königsberg.....	12-06-02	7720		Irkutsk gives
	Manila.....	12-04-24	5760		$\phi = 50^{\circ}.1 N$
	Osaka.....	12-06-11	2000		$\lambda = 153^{\circ}.3 E.$
	Paris.....	12-05-59	8820		
	Pulkovo.....	12-05-53	6960		Apia gives
	Strasbourg.....	12-06-04	8680		$\phi = 48^{\circ} N$
	Sydney.....	12-06-05	8850		$\lambda = 160^{\circ} W.$
	Tokio.....	12-06-02	1690		
	Toronto.....	12-06-13	8360		Toledo gives
	Tucson.....	12-06-07	7720		$\phi = 49^{\circ} N$
	Uccle.....	12-06-00	8580		$\lambda = 155^{\circ} E.$
	Victoria.....	12-05-46	5810		
	Wien.....	12-05-57	8550		
	Zi-ka-wei.....	12-05-52	3140		
	Zürich.....	12-06-02	8800		
	München.....	12-06-05	8620		
	Tyosi.....	12-04-12	1960		
Bergen.....	12-06-27	7420			
Rocca di Papa.....	12-06-10	9060			
Baku.....	12-05-53	7730			
Naples.....	12-06-17	9200			
Irkutsk.....	12-05-44	3360			
Aachen.....	12-06-12	8450			
Nagasaki.....	12-06-09	2380			
Spring Hill.....	12-06-09	9100			
Sitka.....	12-06-19	4370			
Apia.....	12-06-25	7390			
Toledo.....	12-06-16	9420			
Jinsen.....	12-05-55	2400			
New Orleans.....	12-06-09	9100			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 26 1961	Ottawa.....	19-02-05	4140	$\phi = 8^{\circ}.5$ N $\lambda = 79^{\circ}.5$ W O = 19-02.2 Location approximate.	
	Chicago.....	19-02-19	3740		
	Fordham.....	19-02-14	3550		
	Georgetown.....	19-02-09	3360		
	Ithaca.....	19-02-44	3280		
	San Fernando.....	19-02-18	8600		
	Tucson.....	19-01-50	4150		
	Victoria.....	19-01-41	6270		
	Toledo.....	19-02-17	8550		
	Malaga.....	19-02-17	8550		
	New Orleans.....	19-02-19	2440		
	La Plata.....	19-02.1	5550		
Jan. 28 1962	Ottawa.....	4-06-00	8940	$\phi = 43^{\circ}$ N $\lambda = 147^{\circ}$ E O = 4-05-44	Pulkovo gives $\phi = 45^{\circ}.9$ N $\lambda = 153^{\circ}.5$ E.
	Algiers.....	4-06-16	9400		
	Athens.....	4-06-15	8880		
	Kucino.....	4-05-34	7100		Tokio gives $\phi = 42^{\circ}$ N $\lambda = 146^{\circ}.2$ E.
	Batavia.....	4-05-41	6750		
	Ekaterinburg.....	4-05-33	5780		
	Eskdalemuir.....	4-05-34	8700		Zürich gives $\phi = 45^{\circ}$ N $\lambda = 150^{\circ}$ E.
	Hamburg.....	4-05-33	8550		
	Helwan.....	4-05-45	9340		
	Innsbruck.....	4-06-00	8720		Baku gives $\phi = 46^{\circ} 55'$ N $\lambda = 158^{\circ} 12'$ E.
	Königsberg.....	4-05-39	7980		
	Osaka.....	4-05-47	1380		
	Paris.....	4-05-49	9020		
	Pulkovo.....	4-05-38	7080		
	Strasbourg.....	4-05-37	9070		
	Sydney.....	4-05-31	8570		
	Tokio.....	4-05-56	900		
	Toronto.....	4-05-41	9150		
	Uccle.....	4-05-35	8950		
	Victoria.....	4-05-44	6350		
	Wien.....	4-05-32	8840		
	Zi-ka-wei.....	4-05-34	2590		
	Zürich.....	4-05-41	9050		
	Tyosai.....	4-05-42	950		
	Firenze.....	4-05-42	9200		
	München.....	4-05-34	8950		
	Baku.....	4-05-17	8000		
	Neuchâtel.....	4-05-54	9020		
	Piacenza.....	4-05-56	9080		
	Rocca di Papa.....	4-05-49	9200		
	Jinsen.....	4-05-59	1600		
	Kobe.....	4-05-38	1400		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Jan. 28 1963	Chicago.....	10-57-32	4060	$\phi = 8^{\circ}.5$ N $\lambda = 79^{\circ}.5$ W O = 10-58.4 Location and O approximate.	
	Ottawa.....	10-58-27	4060		
	La Paz.....	10-58-50	3050		
	Toronto.....	10-58-25	3810		
Jan. 30 1967	Ekaterinburg.....	17-28-16	6370	$\phi = 53^{\circ}$ N $\lambda = 172^{\circ}.5$ E O = 17-28-23	
	Pulkovo.....	17-28-20	7080		
	Victoria.....	17-28-21	4260		
	Toledo.....	17-28-34	9420		
	Irkutsk.....	17-28-20	4260		
	Kucino.....	17-28-25	7240		
Jan. 31 1968	Ekaterinburg.....	17-00-30	6080	$\phi = 45^{\circ}$ N $\lambda = 151^{\circ}$ E O = 17-00-28 Location approximate.	
	Zi-ka-wei.....	17-00-13	2890		
	Baku.....	17-00-37	7780		
	Irkutsk.....	17-00-31	3290		
Feb. 1 1969	Ottawa.....	(5-24-29)	8860	$\phi = 45^{\circ}$ N $\lambda = 150^{\circ}$ E O = 5-23-58	Ekaterinburg gives $\phi = 47^{\circ} 46'$ N $\lambda = 150^{\circ} 51'$ E. Strasbourg gives $\phi = 47^{\circ}$ N $\lambda = 152^{\circ}$ E. Zürich gives $\phi = 45^{\circ}$ N $\lambda = 150^{\circ}$ E.
	Algiers.....	5-24-49	9280		
	Athens.....	5-24-05	9230		
	Belgrade.....	5-24-13	8670		
	Berkeley.....	5-22-38	8000		
	Cartuja.....	5-24-10	9940		
	Ekaterinburg.....	5-24-03	5760		
	Hamburg.....	5-24-04	8500		
	Königsberg.....	5-23-05	7960		
	Osaka.....	5-24-18	1550		
	Paris.....	5-23-31	9450		
	Pulkovo.....	5-24-04	7110		
	Strasbourg.....	5-24-13	8920		
	Sydney.....	5-23-53	8670		
	Uccle.....	5-24-04	8880		
	Wien.....	5-23-47	9080		
	Zi-ka-wei.....	5-23-35	2280		
	Zürich.....	5-24-08	9020		
	München.....	5-23-41	9320		
	Rocca di Papa.....	5-24-29	8940		
	Toledo.....	5-23-57	10250		
	Almeria.....	5-24-13	10480		
	Malaga.....	5-24-14	10260		
Jinsen.....	5-23-39	2020			
Kobe.....	5-24-05	1510			
Baku.....	5-23-57	7680			
Feb. 2 1972	Osaka.....	11-40-11	1400	$\phi = 45^{\circ}$ N $\lambda = 145^{\circ}$ E O = 11-39.5 Location doubtful.	
	Jinsen.....	11-39-00	1770		
	Irkutsk.....	11-39-25	2990		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 2 1973	Ottawa.....	(13-29-28)	8940	$\phi = 45^\circ \text{ N}$ $\lambda = 149^\circ.5 \text{ E}$ O = 13-29-08	Irkutsk gives $\phi = 43^\circ.5 \text{ N}$ $\lambda = 147.1 \text{ E}$
	Ekaterinburg.....	13-29-06	5910		
	Eskdalemuir.....	13-29-46	8440		
	Hamburg.....	13-29-06	8720		
	Helwan.....	13-29-30	9300		
	Kobe.....	13-29-02	1510		
	Kucino.....	13-29-26	6950		
	Irkutsk.....	13-28-54	3300		
	Jinsen.....	13-29-00	2000		
	Manila.....	13-29-04	4380		
	Malaga.....	13-28-49	10400		
	München.....	13-28-26	9550		
	Osaka.....	13-29-18	1580		
	Pulkovo.....	13-29-11	7240		
	Strasbourg.....	13-29-16	9010		
	Uccle.....	13-29-21	8840		
	Wien.....	13-29-05	9010		
Zi-ka-wei.....	13-28-54	2770			
Feb. 2 1974	Ottawa.....	19-46-47	9230	$\phi = 44^\circ \text{ N}$ $\lambda = 149^\circ \text{ E}$ O = 19-46-50	Pulkovo gives $\phi = 40^\circ.9 \text{ N}$ $\lambda = 141^\circ.3 \text{ E}$ Zürich gives $\phi = 45^\circ \text{ N}$ $\lambda = 150^\circ \text{ E}$.
	Algiers.....	19-47-27	9580		
	Athens.....	19-46-56	9200		
	Batavia.....	19-46-49	6820		
	Belgrade.....	19-46-47	9060		
	Berkeley.....	19-46-47	7250		
	Cartuja.....	19-46-55	10060		
	Chicago.....	19-46-08	9660		
	Georgetown.....	19-47-00	9650		
	Hamburg.....	19-46-56	8500		
	Helwan.....	19-47-04	9350		
	Innsbruck.....	19-47-08	8800		
	Königsberg.....	19-47-32	7350		
	Lick.....	19-47-01	7220		
	Manila.....	19-46-21	4360		
	Osaka.....	19-47-28	1390		
	Paris.....	19-46-54	9160		
	Pulkovo.....	19-46-51	7180		
	Strasbourg.....	19-46-54	9060		
	Toronto.....	19-46-58	9080		
	Uccle.....	19-46-53	8950		
	Wien.....	19-46-51	8840		
	Zi-ka-wei.....	19-45-42	2660		
	Zürich.....	19-46-59	9040		
	Firenze.....	19-46-53	9340		
	München.....	19-46-48	9120		
	Toledo.....	19-46-56	10150		
	Jinsen.....	19-46-32	2010		
	Irkutsk.....	19-46-29	3400		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 7 1980	Athens.....	12-14-40	450	$\phi = 36^{\circ}.5$ N $\lambda = 31^{\circ}.2$ E O = 12-14-50	
	Belgrade.....	12-14-40	990		
	Ekaterinburg.....	12-14-53	3490		
	Königsberg.....	12-14-57	1980		
	Pulkovo.....	12-15-00	2530		
	Strasbourg.....	12-14-44	1760		
	Uccle.....	12-15-08	1930		
Feb. 7 1981	Ekaterinburg.....	18-18-03	6060	$\phi = 25^{\circ}$ N $\lambda = 114^{\circ}$ E O = 18-18-11	
	Osaka.....	18-18-16	2350		
	Zi-ka-wei.....	18-17-59	780		
	Irkutsk.....	18-18-25	3180		
Feb. 16 1992	Ottawa.....	17-47-36	8420	$\phi = 46^{\circ}$ N $\lambda = 160^{\circ}$ E O = 17-47-24 Location doubtful.	
	Chicago.....	17-47-24	8580		
	Toronto.....	17-47-42	8300		
	Baku.....	17-46-54	8150		
Feb. 20 1993	Ottawa.....	1-02-28	8840	$\phi = 46^{\circ}$ N $\lambda = 149^{\circ}.8$ E O = 1-02-29	Pulkovo gives $\phi = 48^{\circ}.9$ N $\lambda = 156^{\circ}.7$ E Baku gives $\phi = 53^{\circ}.9'$ N $\lambda = 159^{\circ}$ E.
	Belgrade.....	1-02-39	8670		
	Cartuja.....	1-02-38	9850		
	Chicago.....	1-02-49	8520		
	Ekaterinburg.....	1-02-21	5800		
	Eskdalemuir.....	1-02-27	8520		
	Firenze.....	1-02-37	9000		
	Georgetown.....	1-02-56	8980		
	Hamburg.....	1-02-27	8320		
	Helwan.....	1-02-47	9160		
	Königsberg.....	1-02-31	7860		
	Kucino.....	1-02-18	7180		
	Lemberg.....	1-02-4	8200		
	Malaga.....	1-02-15	10050		
	Osaka.....	1-02-32	1650		
	Paris.....	1-02-33	8950		
	Piatigorsk.....	1-02-20	7820		
	Pulkovo.....	1-02-28	7000		
	San Fernando.....	1-02-13	10450		
	Strasbourg.....	1-02-29	8870		
	Toronto.....	1-02-35	8800		
	Uccle.....	1-02-29	8740		
	Victoria.....	1-02-16	6220		
	Wien.....	1-02-23	8740		
	Zi-ka-wei.....	1-02-16	2840		
	Zürich.....	1-02-29	9010		
	Baku.....	1-02-29	7600		
Irkutsk.....	1-02-21	3270			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Feb. 23 1996	Ottawa.....	23-53-38	4700	$\phi = 60^{\circ} \cdot 8 \text{ N.}$ $\lambda = 146^{\circ} \cdot 7 \text{ W}$ $O = 23-53-43$	Zürich gives $\phi = 60^{\circ} \text{ N}$ $\lambda = 150^{\circ} \text{ W}$ Ekaterinburg gives $\phi = 65^{\circ} 12' \text{ N}$ $\lambda = 134^{\circ} 7' \text{ W}$ Press reports quake felt at Seward and Anchorage, Alaska. Two distinct tremors, the second more severe. Chimneys were wrecked and water pipes broken at Seward.
	Algiers.....	23-53-52	8780		
	Athens.....	23-53-52	8900		
	Belgrade.....	23-53-57	8160		
	Berkeley.....	23-53-34	3070		
	Almeria.....	23-53-45	8720		
	Cartuja.....	23-53-36	8880		
	Cheltenham.....	23-53-39	5240		
	Chicago.....	23-53-31	4420		
	Ekaterinburg.....	23-54-00	6390		
	Fordham.....	23-53-35	5250		
	Firenze.....	23-53-32	8550		
	Hamburg.....	23-53-42	7200		
	Helwan.....	23-54-17	9500		
	Honolulu.....	23-53-18	4660		
	Halifax.....	23-53-46	5360		
	Innsbruck.....	23-53-51	7800		
	Ithaca.....	23-53-25	4960		
	Jinsen.....	23-53-24	6330		
	Königsberg.....	23-53-50	7050		
	Kucino.....	23-53-49	7000		
	Lick.....	23-53-27	3190		
	Malaga.....	23-53-42	8720		
	New Orleans.....	23-53-45	5100		
	Pulkovo.....	23-53-41	6600		
	Piatigorsk.....	23-54-01	8300		
	San Fernando.....	23-53-47	8680		
Strasbourg.....	23-53-38	7800			
Spring Hill.....	23-53-59	5280			
Sitka.....	23-53-30	880			
Toronto.....	23-53-32	4720			
Tucson.....	23-53-37	4080			
Toledo.....	23-53-43	8400			
Uccle.....	23-53-43	7400			
Victoria.....	23-53-39	2180			
Wien.....	23-54-17	7200			
Zi-ka-wei.....	23-53-44	7080			
Zürich.....	23-53-52	7780			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 1 1999	Ottawa.....	2-19-20	480	$\phi = 47^{\circ}.6$ N $\lambda = 70^{\circ}.1$ W O = 2-19-20 Felt throughout Eastern Canada and United States.	Ekaterinburg gives $\phi = 47^{\circ} 26' N$ $\lambda = 71^{\circ} 26' W$. Strasbourg gives $\phi = 48^{\circ} N$ $\lambda = 68^{\circ} W$. Zürich gives $\phi = 48^{\circ} N$ $\lambda = 70^{\circ} W$.
	Algiers.....	2-19-07	5900		
	Barcelona.....	2-18-40	5750		
	Berkeley.....	2-19-06	4250		
	Cartuja.....	2-19-10	5440		
	Cheltenham.....	2-19-31	1050		
	Chicago.....	2-19-44	1300		
	Coimbra.....	2-19-08	4820		
	Ekaterinburg.....	2-19-18	7610		
	Eskdalemuir.....	2-19-27	4140		
	Fordham.....	2-19-27	710		
	Georgetown.....	2-19-29	1040		
	Hamburg.....	2-19-18	5240		
	Helwan.....	2-19-19	8420		
	Königsberg.....	2-19-09	5990		
	La Paz.....	2-19-21	7000		
	Paris.....	2-19-10	5120		
	Pulkovo.....	2-19-11	6110		
	Rio de Janeiro.....	2-19-20	3280		
	Strasbourg.....	2-19-11	5500		
	Toronto.....	2-19-25	760		
	Uccle.....	2-19-13	5070		
	Victoria.....	2-19-00	3870		
	Wien.....	2-19-11	6050		
	Zürich.....	2-19-08	5650		
	Spring Hill.....	2-19-24	2410		
	Halifax.....	2-19-28	590		
	Saskatoon.....	2-19-12	2610		
	Piatigorsk.....	2-19-25	8000		
	St. Louis.....	2-19-32	1750		
Baku.....	2-19-09	8800			
Toledo.....	2-19-14	5070			
Almeria.....	2-19-10	5450			
Malaga.....	2-19-05	5400			
Alicante.....	2-18-55	5700			
Firenze.....	2-18-58	6220			
Agram.....	2-19-19	6180			
La Plata.....	2-19-6	9020			
Mar. 1 2003	Ekaterinburg.....	12-25-28	6110	$\phi = 28^{\circ} N$ $\lambda = 128^{\circ} E$ O = 12-25-32	
	Pulkovo.....	12-25-41	7790		
	Baku.....	12-25-20	7120		
	Irkutsk.....	12-25-41	3280		
Mar. 15 2015	Ekaterinburg.....	15-41-40	8980	$\phi = 9^{\circ} S$ $\lambda = 119^{\circ} E$ O = 15-41-40	Irkutsk gives $\phi = 7^{\circ}.7 S$ $\lambda = 125^{\circ}.6 E$.
	Baku.....	15-41-43	8940		
	Irkutsk.....	15-41-36	6960		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 16 2017	Cartuja.....	14-42-15	9480	$\phi = 26^\circ \text{ N}$ $\lambda = 100^\circ \text{ E}$ O = 14-42-13	Ekaterinburg gives $\phi = 24^\circ 16' \text{ N}$ $\lambda = 96^\circ 4' \text{ E}$. Pulkovo gives $\phi = 22^\circ 51' \text{ N}$ $\lambda = 96^\circ 27' \text{ E}$. Strasbourg and Toledo give $\phi = 26^\circ \text{ N}$ $\lambda = 100^\circ \text{ E}$. Wien and Zürich give $\phi = 27^\circ \text{ N}$ $\lambda = 100^\circ \text{ E}$. Irkutsk gives $\phi = 26^\circ \cdot 2 \text{ N}$ $\lambda = 96^\circ 52' \text{ E}$. Zi-ka-wei, Manila and Taihoku give Yunnan, China.
	Ekaterinburg.....	14-42-09	4600		
	Eskdalemuir.....	14-42-44	8050		
	Helwan.....	14-42-02	6860		
	Innsbruck.....	14-42-39	7600		
	Königsberg.....	14-41-48	7720		
	Manila.....	14-42-42	2190		
	Paris.....	14-42-28	8380		
	Pulkovo.....	14-42-07	6500		
	Strasbourg.....	14-41-37	8500		
	Uccle.....	14-42-3	8250		
	Wien.....	14-41-59	7720		
	Zi-ka-wei.....	14-42-04	2190		
	Zürich.....	14-42-23	8000		
	Taihoku.....	14-42-09	2200		
	Irkutsk.....	14-42-02	2950		
	Toledo.....	14-42-23	9230		
	Almeria.....	14-42-20	9440		
	Malaga.....	14-42-29	9150		
	Nagasaki.....	14-41-38	3270		
Firenze.....	14-41-58	8200			
Agram.....	14-42-20	7560			
Piatigorsk.....	14-42-34	5380			
Mar. 22 2028	Ekaterinburg.....	8-41-56	12360	$\phi = 17^\circ \text{ S}$ $\lambda = 168^\circ \text{ E}$ O = 8-41-53	Ekaterinburg gives $\phi = 15^\circ 29' \text{ S}$ $\lambda = 161^\circ 4' \text{ E}$. Apia gives $\phi = 18^\circ \text{ S}$ $\lambda = 170^\circ \text{ E}$.
	Honolulu.....	8-41-34	5980		
	Manila.....	8-42-03	6250		
	Melbourne.....	8-41-5	3330		
	Osaka.....	8-41-53	6850		
	Perth.....	8-42-15	5120		
	Victoria.....	8-41-52	9930		
Mar. 26 2034	Batavia.....	10-25-02	2350	$\phi = 7^\circ \text{ N}$ $\lambda = 123^\circ \text{ E}$ O = 10-25-08	Manila gives Pacific SE. of Mindanao.
	Ekaterinburg.....	10-25-18	7650		
	Manila.....	10-24-40	1430		
	Osaka.....	10-25-16	4100		
	Pulkovo.....	10-25-21	9200		
	Zi-ka-wei.....	10-24-57	2780		
	Baku.....	10-25-22	8070		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Mar. 29 2039	Ottawa.....	21-12-32	3980	$\phi = 9^{\circ} \text{ N}$ $\lambda = 79^{\circ} \cdot 5 \text{ W}$ $O = 21-12-27$	Fordham, La Paz, New Orleans and La Plata give Panama.
	Algiers.....	21-12-36	8650		
	Berkeley.....	21-12-29	5550		
	Cartuja.....	21-11-53	8750		
	Cheltenham.....	21-12-41	3120		
	Chicago.....	21-12-14	3830		
	Eskdalemuir.....	21-12-42	8250		
	Fordham.....	21-12-12	3690		
	Georgetown.....	21-12-32	3280		
	Ithaca.....	21-12-32	3660		
	La Paz.....	21-12-35	2810		
	Lick.....	21-12-31	5450		
	Paris.....	21-12-17	8900		
	San Fernando.....	21-11-55	8650		
	Strasbourg.....	21-12-37	9000		
	Toronto.....	21-12-32	3780		
	Tucson.....	21-12-35	4220		
	Uccle.....	21-12-34	8780		
	Victoria.....	21-12-26	6220		
	Zürich.....	21-12-33	9100		
New Orleans.....	21-12-30	9100			
Toledo.....	21-12-35	8070			
Almeria.....	21-12-36	8250			
Malaga.....	21-12-30	8120			
Alicante.....	21-11-57	8120			
Agram.....	21-12-25	9860			
La Plata.....	21-12-5	5100			
April 5 2042	Athens.....	3-04-27	480	$\phi = 35^{\circ} \text{ N}$ $\lambda = 28^{\circ} \text{ E}$ $O = 3-04-30$ Location approximate.	
	Belgrade.....	3-04-33	1560		
	Pulkovo.....	3-04-32	2580		
	Uccle.....	3-04-25	2590		
	Wien.....	3-04-45	1610		
	Toledo.....	3-04-12	3040		
	Agram.....	3-04-33	1650		
	Piatigorsk.....	3-04-41	1500		
	Kucino.....	3-04-27	2200		
April 7 2044	Batavia.....	18-05-49	2520	$\phi = 8^{\circ} \text{ N}$ $\lambda = 127^{\circ} \text{ E}$ $O = 18-05-41$	Ekaterinburg gives $\phi = 11^{\circ} 7' \text{ N}$ $\lambda = 127^{\circ} 43' \text{ E}$.
	Ekaterinburg.....	18-05-39	7850		
	Königsberg.....	18-05-43	10120		
	Manila.....	18-05-47	950		
	Perth.....	18-05-37	4340		
	Pulkovo.....	18-05-41	9500		
	Irkutsk.....	18-05-32	5300		
	Baku.....	18-05-38	8450		
	Piatigorsk.....	18-05-43	8850		
					Manila gives E. coast of Mindanao I.
					Irkutsk gives $\phi = 8^{\circ} \text{ N}$ $\lambda = 123^{\circ} \cdot 6 \text{ E}$.

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
April 11 2045	Algiers.....	10-42-20	9420	$\phi = 34^\circ \text{ S}$ $\lambda = 59^\circ \text{ E}$ O = 10-42-08 Location approximate.	Strasbourg gives $\phi = 33^\circ \text{ S}$ $\lambda = 60^\circ \text{ E}$ Zürich gives $\phi = 30^\circ \text{ S}$ $\lambda = 50^\circ \text{ E.}$
	Athens.....	10-42-02	8720		
	Barcelona.....	10-42-08	10170		
	Batavia.....	10-42-03	5840		
	Harvard.....	10-41-56	15900		
	Melbourne.....	10-42-5	7800		
	Paris.....	10-42-01	10700		
	Rio de Janeiro.....	10-42-20	9400		
	San Fernando.....	10-42-19	10150		
	Strasbourg.....	10-41-54	10550		
	Almeria.....	10-42-05	10100		
	Malaga.....	10-41-51	10350		
	Alicante.....	10-42-01	10180		
	Firenze.....	10-42-28	9440		
	La Plata.....	10-42-04	9400		
	Piatigorsk.....	10-41-50	8980		
April 16 2046	Batavia.....	19-52-27	3410	$\phi = 22^\circ \cdot 5 \text{ N}$ $\lambda = 122^\circ \text{ E}$ O = 19-52-37	Ekaterinburg gives $\phi = 22^\circ 51' \text{ N}$ $\lambda = 122^\circ 10' \text{ E.}$ Pulkovo gives $\phi = 23^\circ 15' \text{ N}$ $\lambda = 122^\circ 18' \text{ E.}$ Baku gives $\phi = 35^\circ \cdot 7 \text{ N.}$ $\lambda = 132^\circ \cdot 9 \text{ E.}$ Zürich gives. $\phi = 25^\circ \text{ N}$ $\lambda = 115^\circ \text{ E.}$ Irkutsk gives $\phi = 26^\circ \cdot 8 \text{ N}$ $\lambda = 129^\circ \cdot 8 \text{ E.}$
	Belgrade.....	19-52-54	8920		
	Chicago.....	19-53	12000		
	Ekaterinburg.....	19-51-36	6190		
	Hamburg.....	19-52-53	9160		
	Honolulu.....	19-52-50	8180		
	Innsbruck.....	19-52-56	9350		
	Königsberg.....	19-52-48	8620		
	Lemberg.....	19-52-6	8680		
	Manila.....	19-51-43	1230		
	Osaka.....	19-52-46	1950		
	Perth.....	19-52-30	5980		
	Pulkovo.....	19-52-44	7900		
	Baku.....	19-52-36	7000		
	Strasbourg.....	19-52-47	9660		
	Uccle.....	19-53-05	9320		
	Wien.....	19-52-43	9220		
	Zürich.....	19-52-49	9600		
	Nagasaki.....	19-52-54	1335		
	Taihoku.....	19-52-33	440		
	Firenze.....	19-52-44	9740		
	Jinsen.....	19-52-39	1800		
	Agram.....	19-52-20	9600		
	Irkutsk.....	19-52-30	3530		
	Kobe.....	19-52-34	2035		
	Sumoto.....	19-52-18	2035		
Bergen.....	19-52-32	9300			
Piatigorsk.....	19-52-36	7460			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
April 19 2047	Batavia.....	15-46-34	4860	$\phi = 37^{\circ} \text{ N}$ $\lambda = 135^{\circ} \text{ E}$ O = 15-46-32 Location approximate.	Ekaterinburg gives $\phi = 37^{\circ} 42' \text{ N}$ $\lambda = 135^{\circ} 41' \text{ E}$. Kobe gives near Noto peninsula, Japan.
	Ekaterinburg.....	15-45-34	5720		
	Pulkovo.....	15-46-36	7220		
	Nagasaki.....	15-46-44	620		
	Jinsen.....	15-46-43	1050		
	Kobe.....	15-46-48	360		
	Sumoto.....	15-46-43	360		
	Irkutsk.....	15-46-31	2970		
Baku.....	15-46-38	7050			
April 19 2048	Ekaterinburg.....	20-40-38	6170	$\phi = 38^{\circ} \text{ N}$ $\lambda = 142^{\circ} \text{ E}$ O = 20-42-02 Location approximate.	Sumoto gives E. of Kinkwazan I.
	Osaka.....	20-42-12	700		
	Pulkovo.....	20-41-54	7390		
	Sumoto.....	20-42-00	800		
	Irkutsk.....	20-42-03	3000		
April 22 2049	Batavia.....	23-10-30	2540	$\phi = 0^{\circ} 58'$ $\lambda = 129^{\circ} 5 \text{ E}$ O = 23-10-36	
	Ekaterinburg.....	23-10-52	8680		
	Manila.....	23-10-34	1950		
	Baku.....	23-10-45	9130		
	Piatigorsk.....	23-10-18	9680		
May 3 2059	Honolulu.....	17-22-08	8260	$\phi = 3^{\circ} 5 \text{ N}$ $\lambda = 127^{\circ} \text{ E}$ O = 17-21-52	Ekaterinburg gives $\phi = 1^{\circ} 40' \text{ N}$ $\lambda = 123^{\circ} 39' \text{ E}$. Pulkovo gives $\phi = 3^{\circ} 37' \text{ N}$ $\lambda = 126^{\circ} \text{ E}$. Irkutsk gives $\phi = 3^{\circ} 4 \text{ N}$ $\lambda = 132^{\circ} 1 \text{ E}$.
	Zi-ka-wei.....	17-21-48	3130		
	Manila.....	17-22-31	1220		
	Irkutsk.....	17-21-45	590		
	Batavia.....	17-21-31	2450		
	Ekaterinburg.....	17-21-59	8250		
	Pulkovo.....	17-21-51	9980		
	Athens.....	17-21-05	10560		
	Königsberg.....	17-22-13	10250		
	Agram.....	17-21-57	11020		
	Strasbourg.....	17-21-54	11460		
	Paris.....	17-21-52	11820		
	Baku.....	17-21-55	8700		
	Uccle.....	17-21-43	11700		
	Jinsen.....	17-21-54	3690		
	Kobe.....	17-21-42	3600		
Piatigorsk.....	17-21-53	9200			
Kucino.....	17-21-56	9440			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
May 3 2060	Algiers.....	22-59-25	9320	$\phi = 34^\circ \text{ S}$ $\lambda = 56^\circ \text{ E}$ O = 22-59-07 Location approximate.	Ekaterinburg gives $\phi = 22^\circ 13' \text{ S}$ $\lambda = 96^\circ 53' \text{ E}$.
	Athens.....	22-59-02	8750		
	Barcelona.....	22-59-06	10100		
	Helwan.....	22-59-08	7620		Strasbourg gives $\phi = 34^\circ \text{ S}$ $\lambda = 55^\circ \text{ E}$.
	Perth.....	22-58-45	5580		
	Strasbourg.....	22-59-01	10380		
	Wien.....	22-59-03	9940		
	Zi-ka-wei.....	22-59-15	9550		
	Zürich.....	22-59-03	10220		
	Almeria.....	22-59-19	9860		
	Alicante.....	22-59-09	10000		
	Piatigorsk.....	22-59-06	8920		
	Baku.....	22-59-10	8360		
May 5 2062	Batavia.....	10-06-02	2540	$\phi = 9^\circ \text{ N}$ $\lambda = 123^\circ 5 \text{ E}$ O = 10-06-09	Ekaterinburg gives $\phi = 5^\circ 16' \text{ N}$ $\lambda = 115^\circ 47' \text{ E}$.
	Belgrade.....	10-07-12	10150		
	Ekaterinburg.....	10-06-12	7470		
	Helwan.....	10-06-10	9620		Pulkovo gives $\phi = 6^\circ 8 \text{ N}$ $\lambda = 120^\circ 3 \text{ E}$.
	Honolulu.....	10-06-26	8440		
	Königsberg.....	10-06-25	9620		
	Manila.....	10-06-03	600		
	Osaka.....	10-06-02	3100		
	Pulkovo.....	10-06-16	9130		Manila gives Negros I.
	Strasbourg.....	10-06-01	10950		
	Zi-ka-wei.....	10-05-53	2480		
	Taihoku.....	10-06-33	1560		
	Jinsen.....	10-06-01	2930		
	Kobe.....	10-05-50	3100		
	Baku.....	10-06-16	7900		
Piatigorsk.....	10-06-01	8620			
May 5 2064	Batavia.....	23-21-08	2260	$\phi = 2^\circ 5 \text{ N}$ $\lambda = 126^\circ 2 \text{ E}$ O = 23-21-12	Ekaterinburg gives $\phi = 0^\circ 24' \text{ N}$ $\lambda = 121^\circ 23' \text{ E}$.
	Ekaterinburg.....	23-21-17	8290		
	Honolulu.....	23-21-21	8400		
	Paris.....	23-21-16	11800		
	Perth.....	23-21-09	3630		
	Pulkovo.....	23-21-10	10000		
	Zi-ka-wei.....	23-20-59	3230		
	Baku.....	23-21-16	8680		
	Piatigorsk.....	23-21-12	9230		
May 13 2074	Algiers.....	23-54-42	9100	$\phi = 10^\circ \text{ N}$ $\lambda = 91^\circ \text{ E}$ O = 23-54-30 Location approximate.	Ekaterinburg gives $\phi = 11^\circ 46' \text{ N}$ $\lambda = 90^\circ 41' \text{ E}$.
	Ekaterinburg.....	23-54-38	5630		
	Pulkovo.....	23-54-33	7430		
	Uccle.....	23-54-0	9280		
	Wien.....	23-54-36	8100		
	Baku.....	23-54-15	5560		
	Almeria.....	23-54-52	9400		
	Malaga.....	23-54-33	9850		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
May 15 2075	Ottawa.....	11-57-07	7800	$\phi = 24^\circ \text{ S}$ $\lambda = 67^\circ \text{ W}$ O = 11-57-08 Location approximate.	
	Fordham.....	11-57-05	7300		
	Georgetown.....	11-57-05	7100		
	La Paz.....	11-56-50	1160		
	Rio de Janeiro.....	11-56-53	2720		
	San Fernando.....	11-57-21	9280		
	Strasbourg.....	11-57-06	10930		
	Toronto.....	11-57-08	7600		
	Toledo.....	11-57-29	9350		
	Almeria.....	11-57-34	9250		
	Malaga.....	11-57-07	9620		
Alicante.....	11-57-09	9870			
La Plata.....	11-56-8	1550			
May 19 2078	Algiers.....	5-24-00	9420	$\phi = 31^\circ \text{ S}$ $\lambda = 58^\circ \text{ E}$ O = 5-24-00 Location approximate.	Ekaterinburg gives $\phi = 20^\circ 21' \text{ S}$ $\lambda = 83^\circ 14' \text{ E}$ Strasbourg gives $\phi = 31^\circ \text{ S}$ $\lambda = 57^\circ \text{ E}$.
	Athens.....	5-23-46	8800		
	Barcelona.....	5-24-05	9700		
	Batavia.....	5-23-51	5750		
	Helwan.....	5-23-48	7660		
	Perth.....	5-22-47	5700		
	Pulkovo.....	5-24-30	9650		
	Strasbourg.....	5-24-19	9750		
	Paris.....	5-24-15	9900		
	San Fernando.....	5-24-19	9650		
	Wien.....	5-23-44	10000		
	Zi-ka-wei.....	5-23-56	9560		
	Toledo.....	5-24-16	9680		
	Almeria.....	5-24-07	9500		
	Malaga.....	5-24-04	9600		
	Agram.....	5-24-20	9150		
	Firenze.....	5-24-17	9200		
	Piatigorsk.....	5-23-44	8830		
Baku.....	5-23-52	8350			
May 20 2079	Ekaterinburg.....	11-04-52	6650	$\phi = 31^\circ \text{ N}$ $\lambda = 143^\circ .5 \text{ E}$ O = 11-04-57	Ekaterinburg gives $\phi = 31^\circ 23' \text{ N}$ $\lambda = 142^\circ 22' \text{ E}$. Kobe gives off Bonin Is.
	Paris.....	11-05-08	9980		
	Pulkovo.....	11-04-57	8170		
	Strasbourg.....	11-05-03	9900		
	Baku.....	11-04-51	8150		
	Uccle.....	11-05-0	9550		
	Piatigorsk.....	11-04-50	8260		
	Wien.....	11-05-24	9050		
	Zi-ka-wei.....	11-04-46	1990		
Kobe.....	11-04-34	880			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
May 22 2083	Ekaterinburg.....	9-40-17	6620	$\phi = 33^\circ \text{ N}$ $\lambda = 144^\circ \text{ E}$ O = 9-40-18	Ekaterinburg gives $\phi = 31^\circ 49' \text{ N}$ $\lambda = 142^\circ 31' \text{ E}$ Pulkovo gives $\phi = 31^\circ 52' \text{ N}$ $\lambda = 143^\circ 7' \text{ E}$
	Paris.....	9-40-54	9420		
	Pulkovo.....	9-40-20	8130		
	Strasbourg.....	9-40-23	9880		
	Uccle.....	9-40-29	9550		
	Zi-ka-wei.....	9-39-50	2150		
	Taihoku.....	9-39-48	2280		
	Kobe.....	9-40-14	750		
Baku.....	9-40-17	8060			
May 23 2084	Athens.....	2-10-22	8900	$\phi = 35^\circ \cdot 5 \text{ N}$ $\lambda = 135^\circ \cdot 5 \text{ E}$ O = 2-09-48	Strasbourg gives $\phi = 37^\circ \text{ N}$ $\lambda = 134^\circ \text{ E}$ Taihoku gives $\phi = 35^\circ \cdot 7 \text{ N}$ $\lambda = 134^\circ \cdot 7 \text{ E}$.
	Batavia.....	2-09-52	5360		
	Belgrade.....	2-09-49	9000		
	Ekaterinburg.....	2-09-38	5840		
	Hamburg.....	2-09-58	8700		
	Manila.....	2-09-22	2800		
	Paris.....	2-09-57	9340		
	Pulkovo.....	2-09-42	7430		
	Strasbourg.....	2-09-51	9230		
	Uccle.....	2-09-47	9200		
	Wien.....	2-09-44	8950		
	Zi-ka-wei.....	2-10-22	1090		
	Zürich.....	2-09-48	9300		
	Toledo.....	2-10-33	10850		
	Malaga.....	2-10-55	10770		
	Agram.....	2-09-58	8950		
	Firenze.....	2-09-05	9860		
Baku.....	2-09-46	7210			
Piatigorsk.....	2-09-33	7480			
May 24 2086	Ekaterinburg.....	1-24-28	6000	$\phi = 30^\circ \text{ N}$ $\lambda = 130^\circ \text{ E}$ O = 1-24-26 Location doubtful.	
	Pulkovo.....	1-24-32	7790		
	Jinsen.....	1-24-22	1690		
	Wien.....	1-24-44	8890		
	Zi-ka-wei.....	1-24-41	790		
	Piatigorsk.....	(1-23-53)	(7600)		
May 25 2087	Batavia.....	3-42-46	2780	$\phi = 12^\circ \cdot 5 \text{ N}$ $\lambda = 124^\circ \cdot 5 \text{ E}$ O = 3-43-14	
	Pulkovo.....	3-43-10	8940		
	Wien.....	3-43-03	10250		
	Zi-ka-wei.....	3-43-25	2030		
	Piatigorsk.....	3-42-41	8680		
	Kucino.....	3-43-26	8520		
	Baku.....	3-43-06	7860		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
May 26 2089	Georgetwon.....	8-20-00	3100	$\phi = 11^\circ \text{ N}$ $\lambda = 79^\circ \text{ W}$ O = 8-20-44 Location approxaimte.	
	Hamburg.....	8-20-41	8980		
	La Paz.....	8-21-26	2780		
	Pulkovo.....	8-20-51	9280		
May 26 2090	Ekaterinburg.....	15-37-08	6080	$\phi = 24^\circ \text{ N}$ $\lambda = 122^\circ \cdot 5 \text{ E}$ O = 15-37-04	
	Pulkovo.....	15-37-12	7830		
	Zi-ka-wei.....	15-36-30	1110		
	Irkutsk.....	15-36-57	3400		
	Baku.....	15-37-20	6740		
	Kucino.....	15-37-24	7460		
	Jinsen.....	15-36-57	1640		
May 27 2091	Batavia.....	2-29-43	5070	$\phi = 41^\circ \cdot 5 \text{ N}$ $\lambda = 129^\circ \cdot 5 \text{ E}$ O = 2-29-55	Ekaterinburg gives $\phi = 41^\circ 57' \text{ N}$ $\lambda = 130^\circ 49' \text{ E}$.
	Ekaterinburg.....	2-29-47	5090		
	Hamburg.....	2-30-30	7600		
	Innsbruck.....	2-30-1	8280		
	Königsberg.....	2-30-07	7310		
	Paris.....	2-30-01	8610		
	Pulkovo.....	2-29-57	6580		
	Strasbourg.....	2-29-59	8400		
	Uccle.....	2-29-07	8290		
	Victoria.....	2-30-01	7170		
	Wien.....	2-29-55	8080		
	Zi-ka-wei.....	2-29-40	1360		
	Zürich.....	2-30-04	8400		
	Agram.....	2-29-42	8450		
Baku.....	2-30-03	6370			
June 2 2100	Ekaterinburg.....	5-18-13	5840	$\phi = 42^\circ \text{ N}$ $\lambda = 144^\circ \cdot 2 \text{ E}$ O = 5-18-14	Ekaterinburg gives $\phi = 37^\circ 30' \text{ N}$ $\lambda = 137^\circ 27' \text{ E}$.
	Pulkovo.....	5-18-20	7200		
	Zi-ka-wei.....	5-17-56	2350		
	Baku.....	5-18-26	7380		
	Mizusawa.....	5-18-17	280		
June 3 2101	Batavia.....	4-34-19	2250	$\phi = 3^\circ \text{ N}$ $\lambda = 126^\circ \text{ E}$ O = 4-34-01	Ekaterinburg gives $\phi = 0^\circ 55' \text{ S}$ $\lambda = 120^\circ 36' \text{ E}$.
	Ekaterinburg.....	4-34-00	8330		
	Honolulu.....	4-34-23	8180		
	Osaka.....	4-33-50	3660		
	Pulkovo.....	4-34-07	9870		
	Zi-ka-wei.....	4-33-53	3150		
	Kucino.....	4-34-23	9200		
	Kobe.....	4-33-50	3850		
	Firenze.....	4-33-37	11720		
	Piatigorsk.....	4-34-06	9210		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
June 4 2103	Ottawa.....	12-03-03	3850	$\phi = 43^\circ \text{ N}$	
	Ekaterinburg.....	12-03-08	8840	$\lambda = 126^\circ \text{ W}$	
	Pulkovo.....	12-03-05	8420	O = 12-03-05	
June 7 2105	Ottawa.....	23-41-35	4370	$\phi = 5^\circ \text{ N}$	Cartuja gives
	Algiers.....	23-41-49	8540	$\lambda = 75^\circ \text{ W}$	$\phi = 6^\circ.2 \text{ N}$
	Cartuja.....	23-41-45	8080	O = 23-41-47	$\lambda = 76^\circ.1 \text{ W.}$
	Eskdalemuir.....	23-41-59	8250		
	Georgetown.....	23-42-03	3420		Strasbourg gives
	Hamburg.....	23-41-55	9020		$\phi = 17^\circ \text{ N}$
	Ithaca.....	23-41-44	3960		$\lambda = 78^\circ \text{ W.}$
	La Paz.....	23-41-39	2380		
	Paris.....	23-41-51	8580		Zürich gives
	Rio de Janeiro.....	23-41-29	4500		$\phi = 10^\circ \text{ N}$
	Strasbourg.....	23-41-53	8910		$\lambda = 75^\circ \text{ W.}$
	Toronto.....	23-41-34	4210		
	Uccle.....	23-41-47	8750		
	Victoria.....	23-41-32	6550		
	Wien.....	23-42-11	9300		
	Zürich.....	23-41-56	8900		
Toledo.....	23-41-45	8020			
Moncalieri.....	23-41-40	9010			
June 9 2106	Ekaterinburg.....	13-40-58	9420	$\phi = 2^\circ \text{ S}$	Ekaterinburg gives
	Honolulu.....	13-40-49	7390	$\lambda = 140^\circ \text{ E}$	$\phi = 8^\circ 51' \text{ S}$
	Osaka.....	13-41-19	3700	O = 13-40-50	$\lambda = 126^\circ 19' \text{ E.}$
	Perth.....	(13-40-22)	3920		
	Pulkovo.....	13-40-53	11000		Irkutsk gives
	Baku.....	13-40-50	10170		$\phi = 1^\circ.1 \text{ S}$
	Victoria.....	13-41-27	9700		$\lambda = 143^\circ.8 \text{ E}$
	Zi-ka-wei.....	13-40-40	4150		
	La Paz.....	13-40-54	15800		
	Mizusawa.....	13-40-45	4550		
	Apia.....	13-40-43	5450		
Irkutsk.....	13-40-48	6980			
June 11 2109	Ekaterinburg.....	15-55-59	9450	$\phi = 3^\circ \text{ S}$	
	Perth.....	15-56-50	3850	$\lambda = 137^\circ.5 \text{ E}$	
	Zi-ka-wei.....	15-56-45	4120	O = 15-56-36	
	Irkutsk.....	15-56-49	6980		
June 12 2110	Ekaterinburg.....	10-58-59	9570	$\phi = 4^\circ \text{ S}$	Ekaterinburg gives
	Honolulu.....	10-58-32	7600	$\lambda = 137^\circ \text{ E}$	$\phi = 2^\circ 42' \text{ N}$
	Perth.....	(10-59-07)	3800	O = 10-58-49	$\lambda = 143^\circ 52' \text{ E.}$
	Baku.....	10-58-37	10420		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
June 13 2112	Cartuja.....	20-22-14	8650	$\phi = 16^\circ \text{ N}$ $\lambda = 94^\circ \text{ W}$ O = 20-23 Location and O approximate.	
	La Paz.....	20-23-19	4630		
	Strasbourg.....	20-23	8800		
	Uccle.....	20-23-1	9450		
June 14 2115	Ottawa.....	22-28-09	3070	$\phi = 17^\circ \text{ N}$ $\lambda = 81^\circ \text{ W}$ O = 22-28-14	
	Cheltenham.....	22-28-12	2390		
	Chicago.....	22-28-10	2590		
	Georgetown.....	22-28-13	2420		
	Harvard.....	22-28-28	2820		
	Ithaca.....	22-28-02	2860		
	La Paz.....	22-28-19	3950		
	Pulkovo.....	22-28-13	9500		
	Toronto.....	22-28-17	2770		
Uccle.....	22-28-15	8350			
June 20 2119	Algiers.....	13-04-05	5440	$\phi = 39^\circ \text{ N}$ $\lambda = 68^\circ \text{ E}$ O = 13-04-07	Pulkovo gives $\phi = 39^\circ 26' \text{ N}$ $\lambda = 68^\circ 18' \text{ E}$. Strasbourg gives $\phi = 39^\circ \text{ N}$ $\lambda = 68^\circ \text{ E}$. Zürich gives $\phi = 38^\circ \text{ N}$ $\lambda = 68^\circ \text{ E}$.
	Barcelona.....	13-04-08	5470		
	Belgrade.....	13-04-03	3980		
	Cartuja.....	13-03-47	6380		
	Eskdalemuir.....	13-04-02	5500		
	Hamburg.....	13-04-05	4630		
	Innsbruck.....	13-04-2	4520		
	Königsberg.....	13-04-15	3840		
	Paris.....	13-04-07	5220		
	Pulkovo.....	13-04-06	3480		
	Strasbourg.....	13-03-57	4960		
	Uccle.....	13-04-03	5070		
	Wien.....	13-04-15	4060		
	Zi-ka-wei.....	13-03-55	4350		
	Agram.....	13-04-09	4220		
	Baku.....	13-04-09	1800		
	Zürich.....	13-04-08	4740		
	Firenze.....	13-04-21	4500		
	Toledo.....	13-04-04	6050		
	Almeria.....	13-04-04	6100		
Malaga.....	13-04-05	6220			
Piatigorsk.....	13-04-10	2300			
Moncalieri.....	13-04-42	4780			
June 23 2121	Ekaterinburg.....	4-43-49	5530	$\phi = 42^\circ.5 \text{ N}$ $\lambda = 140^\circ \text{ E}$ O = 4-43-59	
	Hamburg.....	4-43-55	8250		
	Pulkovo.....	4-43-52	6900		
	Uccle.....	4-44-16	8450		
	Baku.....	4-44-04	7050		
Mizusawa.....	4-44-01	340			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
June 23 2122	Ottawa.....	16-46-42	4900	$\phi = 1^{\circ} \text{ N}$ $\lambda = 71^{\circ} \cdot 5 \text{ W}$ O = 16-46-54 Location approximate.	
	Georgetown.....	16-46-48	4120		
	La Paz.....	16-47-02	1820		
	Uccle.....	16-47-02	8950		
June 28 2125	Ottawa.....	1-21-06	2690	$\phi = 45^{\circ} \text{ N}$ $\lambda = 110^{\circ} \cdot 8 \text{ W}$ O = 1-21-06	Cartuja gives $\phi = 45^{\circ} \text{ N}$ $\lambda = 112^{\circ} \text{ W}$.
	Algiers.....	1-21-12	8730		
	Cartuja.....	1-21-06	8380		
	Cheltenham.....	1-21-09	2810		
	Chicago.....	1-21-04	1950		
	Ekaterinburg.....	1-21-14	8580		
	Eskdalemuir.....	1-21-10	6860		
	Fordham.....	1-21-05	2970		
	Georgetown.....	1-21-11	2780		
	Hamburg.....	1-21-06	7750		
	Harvard.....	1-20-49	3290		
	Honolulu.....	1-20-55	5040		
	Ithaca.....	1-20-55	2880		
	Königsberg.....	1-21-14	7950		
	La Paz.....	1-21-06	8280		
	Osaka.....	1-20-12	9160		
	Paris.....	1-21-17	7620		
	Pulkovo.....	1-21-12	7770		
	San Fernando.....	1-21-06	8300		
	Strasbourg.....	1-21-05	8100		
	Toronto.....	1-21-00	2560		
	Tucson.....	1-21-48	1370		
	Uccle.....	1-21-07	7690		
	Wien.....	1-21-06	8500		
	Zi-ka-wei.....	1-21-16	9980		
	Zürich.....	1-21-11	8160		
	Halifax.....	1-20-50	3680		
	New Orleans.....	1-20-55	2200		
	Agram.....	1-21-10	8650		
	Bergen.....	1-21	6450		
	Moncalieri.....	1-21-08	8350		
	Sitka.....	1-21-00	2140		
	Firenze.....	1-21-08	8700		
	Toledo.....	1-21-04	8220		
Almeria.....	1-21-16	8400			
Malaga.....	1-21-11	8320			
Alicante.....	1-21-01	8430			
Kucino.....	1-21-21	8200			
					Ekaterinburg gives $\phi = 44^{\circ} 17' \text{ N}$ $\lambda = 110^{\circ} 1' \text{ W}$.
					Pulkovo gives $\phi = 46^{\circ} 3' \text{ N}$ $\lambda = 112^{\circ} 18' \text{ W}$.
					Uccle gives $\phi = 44^{\circ} \text{ N}$ $\lambda = 109^{\circ} \text{ W}$.
					Zürich gives $\phi = 45^{\circ} \text{ N}$ $\lambda = 110^{\circ} \text{ W}$.
					Strasbourg gives $\phi = 48^{\circ} \text{ N}$ $\lambda = 112^{\circ} \text{ W}$.

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
June 28 2128	Belgrade.....	6-13-10	9480	$\phi = 29^\circ \text{ N}$ $\lambda = 130^\circ \text{ E}$ O = 6-13-53	Ekaterinburg gives $\phi = 28^\circ 45' \text{ N}$ $\lambda = 129^\circ 37' \text{ E}$.
	Cartuja.....	6-13-51	10750		
	Ekaterinburg.....	6-13-56	6110		
	Eskdalemuir.....	6-14-16	9340		
	Paris.....	6-13-47	9800		
	Pulkovo.....	6-13-58	7890		
	Strasbourg.....	6-14-16	9340		
	Uccle.....	6-14-07	9450		
	Wien.....	6-13-56	9350		
	Zi-ka-wei.....	6-13-14	900		
	Jinsen.....	6-14-04	1060		
	Kobe.....	6-13-54	890		
	Kucino.....	6-13-55	7640		
June 28 2129	Ekaterinburg.....	13-41-44	5720	$\phi = 12^\circ \text{ N}$ $\lambda = 95^\circ \text{ E}$ O = 13-41-41	Ekaterinburg gives $\phi = 14^\circ 8' \text{ N}$ $\lambda = 98^\circ 27' \text{ E}$.
	Paris.....	13-41-32	9450		
	Pulkovo.....	13-41-53	7350		
	Uccle.....	13-41-41	9130		
	Wien.....	13-41-34	8380		
	Irkutsk.....	13-41-44	4560		
	Baku.....	13-41-36	5360		
June 29 2131	Ottawa.....	14-42-04	3900	$\phi = 33^\circ.5 \text{ N}$ $\lambda = 118^\circ.5 \text{ W}$ O = 14-42-16 Destructive quake at Santa Barbara, Cali- fornia.	Irkutsk gives $\phi = 37^\circ.5 \text{ N}$ $\lambda = 118^\circ.3 \text{ W}$.
	Belgrade.....	14-42-43	9900		
	Cartuja.....	14-42-28	9560		
	Cheltenham.....	14-42-40	3510		
	Chicago.....	(14-43-43)	2400		
	Ekaterinburg.....	14-42-33	9630		
	Eskdalemuir.....	14-42-32	8360		
	Fordham.....	14-42-34	3840		
	Georgetown.....	14-42-00	3880		
	Hamburg.....	14-42-20	9230		
	Harvard.....	14-41-58	4420		
	Honolulu.....	14-41-20	4370		
	Ithaca.....	14-42-09	3820		
	Paris.....	14-42-17	9320		
	Pulkovo.....	14-42-14	9450		
	San Fernando.....	14-42-26	9660		
	Toronto.....	14-42-10	3550		
	Uccle.....	14-42-12	9350		
	Almeria.....	14-42-22	9400		
	Malaga.....	14-42-18	9770		
Irkutsk.....	14-42-26	9440			
Kucino.....	14-42-10	10000			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations	
July 5 2143	Cartuja.....	7-01-51	4870	$\phi = 15^\circ \text{ N}$ $\lambda = 45^\circ \text{ W}$ O = 7-02-03 Location approximate.		
	Ekaterinburg.....	7-02-24	9320			
	Pulkovo.....	7-02-00	7890			
	Toledo.....	7-02-01	4780			
	Almeria.....	7-02-01	4815			
	Malaga.....	7-02-04	4620			
July 6 2146	Baku.....	12-15-20	2650	$\phi = 38^\circ$ $\lambda = 22^\circ \text{ E}$ O = 12-15-40	Athens gives $\phi = 37^\circ.8 \text{ N}$ $\lambda = 22^\circ.1 \text{ E}.$	
	Cartuja.....	12-15-37	2290		Ekaterinburg gives $\phi = 38^\circ 49' \text{ N}$ $\lambda = 24^\circ 50' \text{ E}.$	
	Ekaterinburg.....	12-15-51	3280			
	Eskdalemuir.....	12-15-48	2600			
	Hamburg.....	12-15-45	2000			
	Helwan.....	12-16-11	1040			
	Innsbruck.....	12-16-06	1210			
	Lemberg.....	12-15-48	1380			
	Piatigorsk.....	12-15-46	1910			
	Paris.....	12-15-47	1980			
	Pulkovo.....	12-15-46	2440			Pulkovo gives $\phi = 38^\circ 40' \text{ N}$ $\lambda = 20^\circ 55' \text{ E}.$
	San Fernando.....	12-15-42	2640			
	Strasbourg.....	12-15-37	1740			
	Uccle.....	12-15-52	1980			
	Wien.....	12-15-26	1390			
	Zürich.....	12-16-04	1390			
	Agram.....	12-15-58	940			Strasbourg and Zürich give $\phi = 36^\circ \text{ N}$ $\lambda = 21^\circ \text{ E}.$
	Bergen.....	12-14-07	2560			
	Toledo.....	12-15-41	2260			
	Almeria.....	12-15-33	2280			
Malaga.....	12-15-33	2390				
Alicante.....	12-15-35	2030				
July 7 2149	Ottawa.....	14-12-04	4080	$\phi = 20^\circ \text{ N}$ $\lambda = 107^\circ \text{ W}$ O = 14-12-20		
	Cartuja.....	14-11-59	10310			
	Chicago.....	14-12-20	3040			
	Ekaterinburg.....	14-12-23	11220			
	Eskdalemuir.....	14-12-40	3980			
	Fordham.....	14-12-07	3910			
	Georgetown.....	14-12-07	3580			
	Harvard.....	14-12-08	4220			
	Honolulu.....	14-12-25	5280			
	La Paz.....	14-12-19	5820			
	Paris.....	14-12-36	9650			
	Pulkovo.....	14-12-28	10230			
	Toronto.....	14-12-06	3700			
	Tucson.....	14-12-37	1500			
	Uccle.....	14-12-17	9900			
	Victoria.....	14-12-23	3400			
	Irkutsk.....	14-12-27	11280			
	Toledo.....	14-12-27	9680			
Malaga.....	14-12-28	9770				

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
July 7 2151	Ottawa.....	17-43-36	3200	$\phi = 18^\circ \text{ N}$ $\lambda = 61.5 \text{ W}$ O = 17-43-34	
	Algiers.....	17-43-37	6530		
	Cartuja.....	17-43-32	5960		
	Cheltenham.....	17-43-28	2820		
	Chicago.....	17-43-36	3560		
	Fordham.....	17-43-25	2840		
	Georgetown.....	17-43-22	2900		
	Hamburg.....	17-43-37	7250		
	Harvard.....	17-43-29	2880		
	Ithaca.....	17-43-28	3050		
	Paris.....	17-43-35	6650		
	Pulkovo.....	17-43-34	8540		
	Strasbourg.....	17-43-45	6860		
	Toronto.....	17-43-38	3170		
	Uccle.....	17-43-37	6750		
Wien.....	17-43-30	7800			
Toledo.....	17-43-34	5880			
Almeria.....	17-43-33	6010			
Malaga.....	17-43-42	5810			
July 17 2160	Ekaterinburg.....	3-13-59	8350	$\phi = 12^\circ \text{ N}$ $\lambda = 142^\circ.5 \text{ E}$ O = 3-13-53	Ekaterinburg gives $\phi = 12^\circ 26' \text{ N}$ $\lambda = 142^\circ 21' \text{ E}$. Pulkovo gives $\phi = 35^\circ 31' \text{ N}$ $\lambda = 160^\circ 45' \text{ E}$.
	Osaka.....	3-13-52	2550		
	Pulkovo.....	3-14-15	9500		
	Victoria.....	3-13-58	9300		
	Baku.....	3-13-22	10140		
July 17 2163	Ekaterinburg.....	21-07-42	9780	$\phi = 2^\circ \text{ S}$ $\lambda = 139^\circ \text{ E}$ O = 21-07-50 Location approximate.	Ekaterinburg gives $\phi = 5^\circ 16' \text{ N}$ $\lambda = 138^\circ 40' \text{ E}$.
	Pulkovo.....	21-07-52	11050		
	Honolulu.....	21-07-55	7340		
July 31 2170	Cartuja.....	8-46-30	8300	$\phi = 6^\circ \text{ N}$ $\lambda = 80^\circ \text{ W}$ O = 8-46-02 Location approximate.	
	La Paz.....	8-44-52	2860		
	Rio de Janeiro.....	8-45-58	5060		
	Toronto.....	8-46-24	4080		
	Uccle.....	8-46-28	8950		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 7 2177	Agram.....	6-46-31	1530	$\phi = 38^\circ \text{ N}$ $\lambda = 30^\circ.3 \text{ E}$ $O = 6-46-30$	Pulkovo gives $\phi = 38^\circ 24' \text{ N}$ $\lambda = 25^\circ 36' \text{ E}$.
	Algiers.....	6-46-37	2370		
	Athens.....	6-46-51	480		
	Almeria.....	6-46-36	2825		
	Barcelona.....	6-46-31	2420		
	Cartuja.....	6-46-22	3030		
	Eskdalemuir.....	6-46-31	3110		
	Firenze.....	6-46-31	1800		
	Hamburg.....	6-46-29	2390		
	Lemberg.....	6-45-8	1680		
	Naples.....	6-46-10	1640		
	Paris.....	6-46-25	2580		
	Pulkovo.....	6-46-43	2400		
	Strasbourg.....	6-46-33	2200		
	Toledo.....	6-46-20	3000		
	Uccle.....	6-46-28	2540		
	Wien.....	6-46-49	1550		
Zürich.....	6-46-40	2040			
Aug. 7 2178	Ottawa.....	7-47-40	3600	$\phi = 19^\circ.5 \text{ N}$ $\lambda = 100^\circ.5 \text{ W}$ $O = 7-47-50$	
	Cartuja.....	7-47-50	9310		
	Chicago.....	7-47-49	2780		
	Georgetown.....	7-47-44	3330		
	La Paz.....	7-47-39	5280		
	Strasbourg.....	7-47-54	9600		
	Toronto.....	7-47-48	3190		
	Tucson.....	7-48-10	1620		
	Uccle.....	7-47-59	9200		
	Victoria.....	7-47-33	3700		
	Denver.....	7-48	2440		
Almeria.....	7-48-15	9140			
Aug. 12 2183	Cartuja.....	6-58-45	4080	$\phi = 23^\circ.5 \text{ N}$ $\lambda = 46^\circ \text{ W}$ $O = 6-58-42$	Cartuja gives $\phi = 26^\circ \text{ N}$ $\lambda = 45^\circ \text{ W}$.
	Ekaterinburg.....	6-58-47	8840		
	Georgetown.....	6-58-26	3400		
	Hamburg.....	6-58-30	5780		
	La Paz.....	6-58-34	5125		
	Paris.....	6-58-50	4830		
	Pulkovo.....	6-58-54	7050		
	Strasbourg.....	6-58-36	5420		
	Uccle.....	6-58-35	5240		
	Victoria.....	6-59-06	7010		
	Toledo.....	6-58-42	4150		
	Malaga.....	6-58-46	4150		
Almeria.....	6-58-39	4300			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 16 2190	Ekaterinburg.....	2-25-13	4950	$\phi = 51^\circ \text{ N}$	Ekaterinburg gives $\phi = 53^\circ 10' \text{ N}$ $\lambda = 144^\circ 38' \text{ E}$.
	Pulkovo.....	2-25-31	6250	$\lambda = 142^\circ \text{ E}$	
	Uccle.....	2-25-27	7920	O = 2-25-20	
	Toledo.....	2-25-11	9600	Location approximate.	
Aug. 19 2193	Cartuja.....	5-25-08	9780	$\phi = 53^\circ \text{ N}$	
	Uccle.....	5-25-00	8540	$\lambda = 170^\circ \text{ W}$	
	Victoria.....	5-24-47	3250	O = 5-25-02	
	Toledo.....	5-25-15	9330		
Aug. 19 2194	Ottawa.....	12-07-30	7390	$\phi = 55^\circ \text{ N}$	Ekaterinburg gives $\phi = 53^\circ 2' \text{ N}$ $\lambda = 163^\circ 39' \text{ E}$.
	Almeria.....	12-07-29	9605	$\lambda = 166^\circ \text{ E}$	
	Algiers.....	12-07-48	9350	O = 12-07-31	
	Alicante.....	12-07-41	9400		Pulkovo gives $\phi = 52^\circ 22' \text{ N}$ $\lambda = 161^\circ 21' \text{ E}$.
	Athens.....	12-07-40	9010		
	Barcelona.....	12-07-30	9300		
	Belgrade.....	12-07-31	8540		Strasbourg gives $\phi = 56^\circ \text{ N}$ $\lambda = 163^\circ \text{ E}$.
	Berkeley.....	12-07-35	5450		
	Cartuja.....	12-07-32	9620		
	Chicago.....	12-07-05	7350		
	Ekaterinburg.....	12-07-16	5950		
	Eskdalemuir.....	12-07-25	7790		
	Fordham.....	12-07-47	7950		
	Georgetown.....	12-07-31	7920		
	Hamburg.....	12-07-23	7920		
	Helwan.....	12-07-47	9340		
	Honolulu.....	12-07-08	4830		
	Ithaca.....	12-07-42	7480		
	Naples.....	12-07-17	9000		
	Paris.....	12-07-33	8380		
	Malaga.....	12-07-30	9680		
	Moncalieri.....	12-07-28	8640		
	Pulkovo.....	12-07-20	6820		
	San Fernando.....	12-07-19	9800		
	Strasbourg.....	12-07-27	8450		
	Mizusawa.....	12-07-22	2640		
	Toronto.....	12-07-23	7500		
	Toledo.....	12-07-38	9280		
	Uccle.....	12-07-31	8170		
	Victoria.....	12-07-12	4680		
	Wien.....	12-07-23	8360		
Zi-ka-wei.....	12-07-31	4260			
Zürich.....	12-07-41	8360			
Agram.....	12-07-32	8550			
Piatigorsk.....	12-07-43	7740			
Kucino.....	12-08-02	6950			
Irkutsk.....	12-07-33	3780			
Firenze.....	12-07-38	8800			

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Aug. 29 2202	Ottawa.....	22-36-39	3560	$\phi = 25^\circ \text{ N}$ $\lambda = 109^\circ \text{ W}$ O = 22-36-35	
	Cartuja.....	22-36-46	9580		
	Chicago.....	22-36-23	2760		
	Victoria.....	22-36-18	2820		
	Toledo.....	22-36-43	9480		
	Almeria.....	22-36-39	9600		
Sept. 4 2215	Ottawa.....	10-36-01	3500	$\phi = 18^\circ \text{ N}$ $\lambda = 96^\circ \text{ W}$ O = 10-36-08 Location approximate.	
	Chicago.....	10-36-18	2720		
	Toronto.....	10-36-05	3190		
Sept. 5 2216	Ekaterinburg.....	16-30-11	6170	$\phi = 54^\circ \text{ N}$ $\lambda = 171^\circ \text{ E}$ O = 16-30-17	Irkutsk gives $\phi = 57^\circ \text{ N}$ $\lambda = 165.8 \text{ E.}$
	Georgetown.....	16-30-21	7820		
	San Fernando.....	16-30-19	9740		
	Victoria.....	16-30-06	4400		
	Irkutsk.....	16-30-34	3850		
	Toledo.....	16-30-34	9400		
	Mizusawa.....	16-29-51	2880		
Sept. 24 2229	Algiers.....	4-38-11	5130	$\phi = 30.5^\circ \text{ N}$ $\lambda = 58^\circ \text{ E}$ O = 4-38-34	
	Helwan.....	4-38-31	2410		
	Pulkovo.....	4-38-42	3970		
	Uccle.....	4-38-38	4950		
	Wien.....	4-38-36	4000		
	Piatigorsk.....	4-38-47	2200		
Sept. 25 2232	Ekaterinburg.....	8-45-21	8000	$\phi = 6^\circ \text{ S}$ $\lambda = 102^\circ \text{ E}$ O = 8-45-16 Location approximate.	Ekaterinburg gives $\phi = 5^\circ 37' \text{ S}$ $\lambda = 104^\circ 48' \text{ E.}$
	Pulkovo.....	8-45-25	9520		
	Zi-ka-wei.....	8-45-02	4630		
Sept. 29 2236	Alicante.....	17-32-52	7210	$\phi = 19^\circ \text{ N}$ $\lambda = 74.5^\circ \text{ W}$ O = 17-33-44	
	Fordham.....	17-33-52	2590		
	Georgetown.....	17-33-40	2620		
	Hamburg.....	17-33-53	7200		
	Ithaca.....	17-34-09	2730		
	Wien.....	17-33-54	7660		
	Pulkovo.....	17-34-12	8200		
	Toronto.....	17-33-29	3120		
	Uccle.....	17-33-37	6920		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 5 2244	Ottawa.....	4-09-05	3450	$\phi = 14^\circ \text{ N}$ $\lambda = 84^\circ.5 \text{ W}$ O = 4-09-07	St. Louis gives $\phi = 13^\circ \text{ N}$ $\lambda = 84^\circ \text{ W}$. Strasbourg gives $\phi = 15^\circ \text{ N}$ $\lambda = 83^\circ \text{ W}$.
	Algiers.....	4-09-15	8800		
	Berkeley.....	4-09-06	4210		
	Fordham.....	4-09-04	3120		
	Georgetown.....	4-09-11	2820		
	Ithaca.....	4-09-02	3180		
	La Paz.....	4-09-06	3500		
	Paris.....	4-09-15	8550		
	Pulkovo.....	4-09-14	9780		
	Rio de Janeiro.....	4-09-00	5870		
	San Fernando.....	4-09-10	8180		
	Strasbourg.....	4-09-18	8800		
	Toronto.....	4-08-55	3350		
	Uccle.....	4-09-07	8740		
	Victoria.....	4-09-13	4860		
	Halifax.....	4-09-09	3850		
	Firenze.....	4-08-57	9400		
	La Plata.....	4-09-1	5770		
	Alicante.....	4-09-05	8410		
Toledo.....	4-09-04	8300			
Malaga.....	4-09-10	8240			
Leningrad.....	4-09-14	9750			
Oct. 5 2245	Ottawa.....	4-11-07	3050	$\phi = 18^\circ \text{ N}$ $\lambda = 81^\circ \text{ W}$ O = 4-11-08	
	Toronto.....	4-11-00	2880		
	Halifax.....	4-11-18	3400		
Oct. 12 2249	Algiers.....	5-44-49	9550	$\phi = 33^\circ \text{ S}$ $\lambda = 59^\circ \text{ E}$ O = 5-44-46	Strasbourg gives $\phi = 33^\circ \text{ S}$ $\lambda = 57^\circ \text{ E}$.
	Makéevka.....	5-44-38	9200		
	Barcelona.....	5-44-45	10100		
	Toledo.....	5-44-31	10470		
	Batavia.....	5-44-42	5780		
	Ekaterinburg.....	5-45-11	9450		
	Strasbourg.....	5-44-42	10420		
	Wellington.....	5-44-49	9340		
	Wien.....	5-44-35	9970		
	Moncalieri.....	5-44-22	10320		
	Zi-ka-wei.....	5-44-57	9330		
	Firenze.....	5-44-58	9700		
	Gras.....	5-45-03	9400		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 13 2250	Ottawa.....	17-40-32	4900	$\phi = 10^{\circ} \cdot 5$ N $\lambda = 43^{\circ}$ W O = 17-40-31	St. Louis gives $\phi = 10^{\circ}$ N $\lambda = 42^{\circ}$ W. Ekaterinburg gives $\phi = 15^{\circ} 3'$ N $\lambda = 43^{\circ} 58'$ W. Pulkovo gives $\phi = 6^{\circ} 38'$ N $\lambda = 37^{\circ} 17'$ W. Strasbourg gives $\phi = 9^{\circ} \cdot 5$ N $\lambda = 38^{\circ} \cdot 5$ W. Leningrad gives $\phi = 11^{\circ} 12'$ N $\lambda = 44^{\circ} 44'$ W.
	Algiers.....	17-40-46	5080		
	Barcelona.....	17-40-27	5510		
	Belgrade.....	17-39-58	6780		
	St. Louis.....	17-40-27	5650		
	Ekaterinburg.....	17-40-57	9420		
	Fordham.....	17-40-32	4450		
	Georgetown.....	17-39-30	4580		
	Hamburg.....	17-40-53	6300		
	Helwan.....	17-40-41	7860		
	Innsbruck.....	17-40-30	6450		
	Ithaca.....	17-40-36	4700		
	La Paz.....	17-40-42	3920		
	Paris.....	17-40-33	5850		
	Pulkovo.....	17-40-32	8130		
	Strasbourg.....	17-40-34	6180		
	Moncalieri.....	17-40-25	6160		
	San Fernando.....	17-40-26	4620		
	Kucino.....	17-40-49	8560		
	Toronto.....	17-40-33	5020		
	Uccle.....	17-40-26	6190		
	Victoria.....	17-40-36	8500		
	Wien.....	17-40-29	6900		
	Zürich.....	17-40-31	6250		
	Agram.....	17-40-46	6520		
	Firenze.....	17-40-33	6340		
	Graz.....	17-40-36	6650		
Makéevka.....	17-40-23	8440			
La Plata.....	17-40-6	5220			
Alicante.....	17-40-11	5450			
Almeria.....	17-40-23	4940			
Leningrad.....	17-40-38	8060			
Toledo.....	17-40-29	4890			
Oct. 14 2251	Ekaterinburg.....	10-23-33	5700	$\phi = 43^{\circ}$ N $\lambda = 143^{\circ}$ E O = 10-23-40 ca. Location approximate.	
	Pulkovo.....	10-23-38	7100		
	Irkutsk.....	10-24-25	3080		
Oct. 15 2254	Pulkovo.....	12-36-19	6350	$\phi = 26^{\circ}$ N $\lambda = 99^{\circ} \cdot 5$ E O = 12-36-14	Irkutsk gives $\phi = 27^{\circ} \cdot 0$ N $\lambda = 102^{\circ} \cdot 5$ E.
	Zi-ka-wei.....	12-36-10	2210		
	Makéevka.....	12-35-58	5820		
	Kucino.....	12-36-20	5780		
	Baku.....	12-36-21	4740		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Oct. 18 2259	Batavia.....	8-26-01	2420	$\phi = 5^\circ \text{ N}$ $\lambda = 124^\circ \text{ E}$ O = 8-25-55 Location approximate.	
	Zi-ka-wei.....	8-25-37	3050		
	Makéevka.....	8-26-04	8980		
Oct. 22 2263	Batavia.....	17-01-48	410	$\phi = 4^\circ \text{ S}$ $\lambda = 103^\circ \cdot 5 \text{ E}$ O = 17-01-43	Irkutsk gives $\phi = 3^\circ \cdot 9 \text{ S}$ $\lambda = 104^\circ \cdot 3 \text{ E}$.
	Ekaterinburg.....	17-01-46	7830		
	Helwan.....	17-01-52	8420		
	Perth.....	17-01-23	3360		
	Wien.....	17-01-44	10020		
	Zi-ka-wei.....	17-01-40	4350		
	Jinsen.....	17-01-41	5220		
	Makéevka.....	17-01-47	8350		
	Irkutsk.....	17-01-47	6240		
Baku.....	17-01-45	7400			
Oct. 23 2264	Batavia.....	1-47-46	870	$\phi = 10^\circ \cdot 5 \text{ S}$ $\lambda = 114^\circ \cdot 2 \text{ E}$ O = 1-47-36	Ekaterinburg gives $\phi = 8^\circ 57' \text{ S}$ $\lambda = 116^\circ 31' \text{ E}$.
	Ekaterinburg.....	1-47-33	8920		
	Zi-ka-wei.....	1-47-27	4630		
	Baku.....	1-47-38	8670		
Oct. 25 2266	Batavia.....	0-21-20	2400	$\phi = 3^\circ \text{ N}$ $\lambda = 126^\circ \text{ E}$ O = 0-21-24 Location approximate.	Ekaterinburg gives $\phi = 0^\circ 14' \text{ N}$ $\lambda = 121^\circ 15' \text{ E}$.
	Ekaterinburg.....	0-21-25	8250		
	Pulkovo.....	0-21-24	9890		
	Makéevka.....	0-21-14	9280		
	Baku.....	0-21-23	8740		
	Kucino.....	0-21-6	9520		
Oct. 30 2268	Batavia.....	14-41-44	5920	$\phi = 9^\circ \text{ S}$ $\lambda = 161^\circ \text{ E}$ O = 14-41-46 Location approximate.	Irkutsk gives $\phi = 4^\circ \cdot 5 \text{ N}$ $\lambda = 180^\circ \cdot 6 \text{ E}$.
	Zi-ka-wei.....	14-41-51	5980		
	Irkutsk.....	14-41-47	8670		
	Wellington.....	14-41-43	3500		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 10 2277	Batavia.....	13-50-15	2780	$\phi = 2^\circ \text{ S}$ $\lambda = 127^\circ \text{ E}$ O = 13-50-36 Location and O approximate	Ekaterinburg gives $\phi = 1^\circ 49' \text{ S}$ $\lambda = 127^\circ 10' \text{ E}$. Irkutsk gives $\phi = 3^\circ 2' \text{ N}$ $\lambda = 142^\circ 1' \text{ E}$. Apia gives $\phi = 2^\circ \text{ S}$ $\lambda = 129^\circ \text{ E}$.
	Ekaterinburg.....	13-50-44	8780		
	Wellington.....	13-50-45	6110		
	Osaka.....	13-50-16	4260		
	Leningrad.....	13-50-32	10480		
	Pulkovo.....	13-50-47	10300		
	Kucino.....	13-50-44	10050		
	Irkutsk.....	13-50-25	6460		
	Nagasaki.....	13-50-04	4000		
	Apia.....	13-50-39	6600		
	Makéevka.....	13-50-51	9580		
	Piatigorsk.....	13-50-58	9400		
Ootomari.....	13-50-46	5400			
Nov. 13 2278	Batavia.....	12-14-25	3040	$\phi = 13^\circ \text{ N}$ $\lambda = 126^\circ 5' \text{ E}$ O = 12-14-50	Ekaterinburg gives $\phi = 12^\circ 58' \text{ N}$ $\lambda = 125^\circ 2' \text{ E}$. Wellington gives $\phi = 12^\circ 30' \text{ N}$ $\lambda = 126^\circ \text{ E}$. Pulkovo gives $\phi = 15^\circ 26' \text{ N}$ $\lambda = 128^\circ 54' \text{ E}$. Leningrad gives $\phi = 13^\circ 48' \text{ N}$ $\lambda = 125^\circ 35' \text{ E}$.
	Ekaterinburg.....	12-14-45	7320		
	Wellington.....	12-15-08	7460		
	Lemberg.....	12-14-8	9520		
	Manila.....	12-14-51	510		
	Pulkovo.....	12-14-50	9000		
	Leningrad.....	12-14-48	9020		
	Kucino.....	12-14-44	8800		
	Irkutsk.....	12-14-35	4700		
	Zi-ka-wei.....	12-14-55	2000		
	Firenze.....	12-15-04	10500		
	Nagasaki.....	12-14-48	2280		
	Ootomari.....	12-14-37	4210		
	Taihoku.....	12-15-14	1320		
	Piatigorsk.....	12-14-46	8360		
Apia.....	12-14-59	7530			
Nov. 14 2280	Ekaterinburg.....	10-03-34	7320	$\phi = 15^\circ \text{ N}$ $\lambda = 131^\circ \text{ E}$. O = 10-03-30 Location approximate.	
	Pulkovo.....	10-03-32	9090		
	Zi-ka-wei.....	10-03-23	2150		
	Irkutsk.....	10-03-26	9660		
	Baku.....	10-03-31	7980		
	Kucino.....	10-03-35	8650		
Nov. 14 2281	Ekaterinburg.....	14-37-12	7240	$\phi = 14^\circ \text{ N}$ $\lambda = 127^\circ \text{ E}$ O = 14-37-04	
	Pulkovo.....	14-37-15	8940		
	Zi-ka-wei.....	14-36-58	2130		
	Irkutsk.....	14-36-58	4660		
	Baku.....	14-36-56	8100		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 14 2282	Ekaterinburg.....	22-35-42	6350	$\phi = 41^\circ \text{ N}$ $\lambda = 30^\circ \text{ W}$ O = 22-35-32 Location approximate.	
	Uccle.....	22-35-25	2850		
	Almeria.....	22-35-38	2200		
	Malaga.....	22-35-25	2100		
Nov. 16 2283	Ottawa.....	11-54-50	4040	$\phi = 17^\circ \cdot 5 \text{ N}$ $\lambda = 103^\circ \cdot 5 \text{ W}$ O = 11-54-51	St. Louis gives $\phi = 16^\circ \cdot 5 \text{ N}$ $\lambda = 106^\circ \text{ W}$
	Berkeley.....	11-54-24	2880		
	St. Louis.....	11-54-55	2730		
	Fordham.....	11-53-38	4420		
	Georgetown.....	11-54-42	3580		
	Halifax.....	11-54-40	4880		
	Ithaca.....	11-55-03	3660		
	Paris.....	11-54-51	9900		
	Rio de Janeiro.....	11-54-59	8350		
	Toronto.....	11-55-06	3490		
	Uccle.....	11-54-57	9820		
	Victoria.....	11-54-42	3600		
	Denver.....	11-55	2440		
	La Plata.....	11-55-1	7850		
	Bergen.....	11-55-00	9200		
	Malaga.....	11-55-23	9520		
Toledo.....	11-54-55	9500			
Almeria.....	11-54-48	10000			
Alicante.....	11-55-30	9470			
Nov. 17 2285	Ottawa.....	0-17-50	6120	$\phi = 11^\circ \text{ S}$ $\lambda = 79^\circ \text{ W}$ O = 0-17-50	
	La Paz.....	0-17-53	1470		
	Rio de Janeiro.....	0-17-40	4080		
	San Fernando.....	0-17-49	9340		
	Victoria.....	0-17-48	7900		
	Almeria.....	0-18-05	9500		
	Malaga.....	0-17-55	9430		
Nov. 28 2290	Ekaterinburg.....	8-14-41	3840	$\phi = 70^\circ \text{ N}$ $\lambda = 19^\circ \text{ W}$ O = 8-14-43	
	Pulkovo.....	8-14-43	2490		
	Leningrad.....	8-14-46	2460		
Nov. 28 2291	Ottawa.....	12-33-28	3270	$\phi = 16^\circ \text{ N}$ $\lambda = 79^\circ \text{ W}$ O = 12-33-28 Location approximate.	
	Fordham.....	12-33-27	2960		
	Ithaca.....	12-33-33	2980		
	La Paz.....	12-33-27	3850		
	Toronto.....	12-33-23	3030		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Nov. 28 2292	Ekaterinburg.....	16-14-01	11900	$\phi = 11^{\circ} \text{ S}$	Apia gives $\phi = 17^{\circ} \text{ S}$ $\lambda = 164^{\circ} \text{ E.}$
	Victoria.....	16-13-48	9500	$\lambda = 165^{\circ} \text{ E}$	
	Apia.....	16-13-00	2480	O = 16-13-40	
	Irkutsk.....	16-13-47	9470	Location approximate.	
Dec. 7 2294	Ekaterinburg.....	8-34-31	2400	$\phi = 38^{\circ} \text{ N}$	Ekaterinburg gives $\phi = 38^{\circ} 49' \text{ N}$ $\lambda = 78^{\circ} 46' \text{ E.}$
	Pulkovo.....	8-34-28	3900	$\lambda = 76^{\circ} \cdot 7 \text{ E}$	
	Irkutsk.....	8-34-24	2640	O = 8-34-24	
	Baku.....	8-34-11	2440		Irkutsk gives $\phi = 42^{\circ} \cdot 2 \text{ N}$ $\lambda = 72^{\circ} \cdot 2 \text{ E.}$
	Leningrad.....	8-34-28	3900		
Dec. 10 2297	Ottawa.....	14-14-36	3680	$\phi = 14^{\circ} \text{ N}$	U.S. Coast and Geodetic Survey gives $\phi = 13^{\circ} \text{ N}$ $\lambda = 93^{\circ} \text{ W.}$
	Algiers.....	14-14-50	9560	$\lambda = 93^{\circ} \text{ W}$	
	Balboa.....	14-14-37	1900	O = 14-14-40	Strasbourg gives $\phi = 15^{\circ} \cdot 5 \text{ N}$ $\lambda = 89^{\circ} \cdot 5 \text{ W.}$
	Berkeley.....	14-14-36	3810		
	Cheltenham.....		2810		
	Chicago.....	14-14-50	2820		
	Fordham.....	14-14-55	3250		
	Georgetown.....	14-14-22	3240		
	Hamburg.....	14-15-06	9300		
	Honolulu.....	14-15-0	6860		
	Paris.....	14-15-06	8950		
	Pulkovo.....	14-14-51	10200		
	Strasbourg.....	14-14-48	9650		
	Toronto.....	14-14-31	3410		
	Tucson.....	14-14-39	2770		
	Uccle.....	14-15-03	9070		
	Victoria.....	14-14-36	4690		
	Port au Prince.....	14-14-08	2660		
	Toledo.....	14-14-54	8820		
	Almeria.....	14-14-58	8900		
	Malaga.....	14-14-57	8800		
Alicante.....	14-14-45	9100			
Moncalieri.....	14-14-17	9850			
Dec. 19 2307	Georgetown.....	16-09-36	8620	$\phi = 31^{\circ} \cdot 7 \text{ S}$	U.S. Coast and Geodetic Survey gives $\phi = 31^{\circ} \text{ S}$ $\lambda = 112^{\circ} \text{ W.}$
	Ithaca.....	16-09-33	9000	$\lambda = 112^{\circ} \text{ W}$	
	La Paz.....	16-09-17	4710	O = 16-09-32	
	Victoria.....	16-09-42	8940		
	Wellington.....	16-09-31	6620		

LOCATION OF EPICENTRES, 1925

Date	Station	O	Δ	Epicentre	Other Locations
Dec. 22 2308	Algiers.....	5-05-42	9300	$\phi = 20^\circ \text{ N}$ $\lambda = 101^\circ \cdot 7 \text{ E}$ O = 5-05-33	U.S. Coast and Geodetic Survey gives $\phi = 20^\circ \text{ N}$ $\lambda = 100^\circ \text{ E}$ Zürich gives $\phi = 15^\circ \text{ N}$ $\lambda = 97^\circ \text{ E.}$ Irkutsk gives $\phi = 21^\circ \cdot 6 \text{ N}$ $\lambda = 107^\circ \cdot 2 \text{ E.}$
	Batavia.....	5-05-27	2960		
	Ekaterinburg.....	5-05-22	5250		
	Hamburg.....	5-05-45	8260		
	Helwan.....	5-05-35	7050		
	Manila.....	5-06-01	1950		
	Pulkovo.....	5-05-17	7200		
	Zi-ka-wei.....	5-05-26	2360		
	Zürich.....	5-05-37	8620		
	Taihoku.....	5-05-30	2160		
	Irkutsk.....	5-05-27	3420		
	Baku.....	5-05-19	5400		
	Kucino.....	5-06-0	6670		
Leningrad.....	5-05-19	7180			
Dec. 27 2311	Batavia.....	10-27-55	2480	$\phi = 2^\circ \text{ N}$ $\lambda = 128^\circ \text{ E}$ O = 10-28-22 Location approximate.	Ekaterinburg gives $\phi = 3^\circ 34' \text{ S}$ $\lambda = 115^\circ 30' \text{ E.}$ Irkutsk gives $\phi = 1^\circ \cdot 4 \text{ N}$ $\lambda = 128^\circ \text{ E.}$
	Ekaterinburg.....	10-28-20	8350		
	Pulkovo.....	10-28-26	9890		
	Makéevka.....	10-28-59	9200		
	Irkutsk.....	10-28-15	6000		
	Baku.....	10-28-13	8820		
	Kucino.....	10-28-4	9650		
	Leningrad.....	10-28-24	9980		
Dec. 29 2316	Ekaterinburg.....	16-04-19	8330	$\phi = 1^\circ \text{ S}$ $\lambda = 121^\circ \cdot 5 \text{ E}$ O = 16-04-13	U.S. Coast and Geodetic Survey gives $\phi = 1^\circ \text{ S}$ $\lambda = 120^\circ \text{ E.}$ Ekaterinburg gives $\phi = 3^\circ 11' \text{ S}$ $\lambda = 116^\circ 28' \text{ E.}$ Irkutsk gives $\phi = 0^\circ \cdot 7 \text{ N}$ $\lambda = 127^\circ \cdot 4 \text{ E.}$
	Zi-ka-wei.....	16-04-06	3530		
	Irkutsk.....	16-04-12	6120		
	Baku.....	16-04-17	8500		