

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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## The International Seismological Summary for 1926 July, August, September.

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FORMERLY THE BULLETIN OF THE  
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

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The present number of the Summary deals with 237 epicentres, 37 of which are new and 200 repetitions from old epicentres. In this last, however, are included a long series of 64 repetitions, Aug. 5 to 20, from the epicentre  $25^{\circ}0N. 119^{\circ}5E.$ , most of them small. They are differentiated from other cases of numerous repetitions (1) by being observed at several stations, whereas in general only one observing station, or perhaps two, have sent records; and (2) by not being aftershocks of a more violent shock. Judging by the rough criterion of the number of observing stations, the first considerable shock was on August 6d. 4h., being No. 23 in the series. It is of interest to note the number of shocks for each number of observing stations.

Observing Stations	Shocks	Observing Stations	Shocks	Observing Stations	Shocks
1	2	8	4	15	2
2	5	9	1	16	2
3	4	10	4	17	1
4	4	11	2	18	0
5	3	12	5	19	1
6	11	13	2	20	1
7	8	14	1	25	1

There is a well defined maximum of shocks observed at 6 or 7 stations.

The work of identifying these August shocks was rendered specially difficult by the occurrence of shocks from adjacent epicentres at  $24^{\circ}0N. 124^{\circ}0E.$  and  $25^{\circ}8N. 128^{\circ}0E.$  interspersed among them. Much time was expended on the separation, but it is possible that even now some errors of identification remain.

From 1926 Sept. 10d. 10h. 36m. to Sept. 14d. 8h. 32m. Batavia records that there were 176 shocks at Maron, 76 during the first 12 hours,

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### Deep Foci in 1926 July-Sept.

Cases of abnormal focal depth are as follows :—

	Date.			Epicentre.		Focal Depth.
	d.	h.	m.	°	'	
July	26	18	54	36·0N.	134·0E.	+0·050
Sept.	7	12	22	5·5S.	145·0E.	+0·020
Sept.	10	10	34	9·0S.	111·0E.	+0·013
Sept.	10	19	52	9·0S.	111·0E.	+0·030
Sept.	11	12	27	9·0S.	111·0E.	+0·013
Sept.	16	17	59	10·7S.	159·7E.	+0·020
Sept.	17	1	45	10·7S.	159·7E.	+0·020
Sept.	17	2	54	10·7S.	159·7E.	+0·020
Sept.	17	5	41	10·7S.	159·7E.	+0·020
Sept.	29	12	21	3·0N.	122·0E.	+0·040
Sept.	30	5	17	3·0N.	122·0E.	+0·080

It will be seen that there are two cases, on Sept. 10-11 and Sept. 29-30, where different focal depths are used for different shocks under the same epicentre. These are not, however, unprecedented. The case of July 26, noticed by Mr. Wadati, is referred to below.

### Deep Foci.

In the Tokyo *Geophysical Magazine* for March, 1928 (Vol. I, No. 4, p. 162) Mr. K. Wadati printed a most interesting paper on "Shallow and Deep Earthquakes." He quotes the paper (M.N.R.A.S. Geoph. Sup. I, No. 1, 1922), in which the method is developed of determining deep foci which has since been constantly used in the *International Seism. Summary*, but without showing any knowledge of these results. By an independent method he arrives at very satisfactory confirmation of them for Japanese earthquakes. A paper commenting on his, and citing the cases of independent concordant determination was written and sent to Mr. Wadati for publication in the *Geophysical Magazine*, but nothing more was heard of it. In the number of their *Geop. Mag.* for March, 1929 (Vol. II, No. 1, p. 1) Mr. Wadati prints a second paper, without any reference to that sent him. Apparently it has gone astray.\* The question of the depth of focus is so important that it seems desirable to draw general attention to the independent confirmation of our results by printing here the paper sent to Mr. Wadati, suppressing only a few paragraphs which have no importance now. The occasion seems suitable since this number of the Summary contains the earthquake to which Mr. Wadati devotes his chief attention, that of 1926 July 26d. 18h.

\* Since the paper was set up in type as below, a copy of the *Geophysical Magazine*, Vol. II, No. 3, for Nov. 1929, has been received in which the paper is printed in full;

## SHALLOW AND DEEP EARTHQUAKES.

Comments on the paper of K. Wadati in the *Geophysical Magazine*, Vol. I, No. 4 (sent to him in May, 1928, but apparently lost. See *Int. Seism. Summary* for 1925, p. 2).

BY PROFESSOR H. H. TURNER,  
*Editor of the "International Seismological Summary."*

1.—The paper quoted above by K. Wadati is of great interest since it confirms results obtained by an entirely different method, which has been in constant use in the *International Seismological Summary* since 1922. In that year the paper was written which is duly quoted by Mr. Wadati (on p. 164 of his paper) as No. (1) (except that he quotes the *Geographical* Supplement to the Mon. Not. instead of the *Geophysical* Supplement). It explains two methods of determining the depth of focus of an earthquake :

(a) From the times of arrival of [P] waves at stations near the Antipodes ;

(b) From the times of arrival of the regular P waves at all stations which receive them.

2.—At that time (1922) only a very few examples could be given, for cases of abnormal depth are comparatively rare, as Mr. Wadati has remarked. But subsequent observations have provided a considerable wealth of material. Altogether the following *abnormal* focal depths have been assigned :—

TABLE I.

Numbers of Abnormal Foci noted for the International Seismological Summary (1918—1924).

Above normal.		Below normal.			
Depth.	Cases.	Depth.	Cases.	Depth.	Cases.
—·04	1	+·01	14	+·05	11
—·03	5	+·02	14	+·06	11
—·02	7	+·03	24	+·07	8
—·01	3	+·04	11	+·08	2

The depth is given in fractions of the earth's radius.

3.—There are 111 cases in all, and though 17 of these represent only  $\pm 01$  departure from normal, there are many of considerable departure. The two extreme cases of  $\cdot 08$  on 1921 Dec. 18 and 1922 Sept. 4 were very carefully examined, as will be seen from the notes appended to them in the Summary. The epicentres were adopted at  $2^{\circ}5S$ ,  $71^{\circ}0W$ , and  $9^{\circ}0S$ ,  $66^{\circ}0W$ .

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and on 1922 Jan. 17 a focal depth of  $\cdot 070$  was adopted for the epicentre  $2^{\circ}0S$ ,  $72^{\circ}0W$ ., suggesting that this neighbourhood is liable to cases of very deep focus. Such points are under investigation.

4.—It is here chiefly intended to draw attention to the fact that the earthquake of July 27th, 1926 (Japanese time), or as dated in Greenwich time 1926 July 26d. 18h. 54m. 45s., which is carefully investigated by Mr. Wadati's method in the paper quoted, gives closely accordant results when treated by the independent method used in the Summary. Mr. Wadati uses observations at 50 Japanese stations within 1100 k.m. or  $9^{\circ}$  of the epicentre, which he adopts as  $35^{\circ}4N$ ,  $136^{\circ}4E$ ., and he finds a depth of 343 k.m. =  $\cdot 054$  of the earth's radius. In the following table is given the reduction of this same earthquake nearly as it would appear in the *International Seismological Summary* in the ordinary course,\* adopting a focal depth of  $\cdot 055$  below normal. What the normal depth is has not yet been finally decided. Cases have presented themselves where it seems appropriate to assume a focal height of  $-0\cdot 030$  (above normal), and even of  $-0\cdot 040$  (on 1922 Feb. 5d. 22h.). But it must frankly be admitted that these cases are very rare and are possibly susceptible of some other explanation. Moreover there is other evidence that the normal depth is slight, say  $\cdot 010$  radius below the surface. Even this would reduce the depth, found by Mr. Wadati, as  $\cdot 054$  below the surface, to  $\cdot 044$  below normal, whereas the observations given below suggest a depth even greater than  $\cdot 055$  below normal, or say  $\cdot 070$  below the surface. At present we can only say that the depths found by the two methods are of the same order of magnitude; and  $\cdot 055$  below normal has been adopted without claiming that it represents Mr. Wadati's result accurately.

\* Note added 1929 Oct. 6. The solution in the ordinary course will be found in the present number. The position of the Epicentre  $36^{\circ}0N$ ,  $134^{\circ}0E$ . differs in longitude from Mr. Wadati's by  $2^{\circ}4$ , but accords nearly with the position given by Mr. Wadati for the earthquake of 1927 Jan. 15 in his second paper.

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FOCAL DEPTH 0.055 BELOW NORMAL.

1926 July 26d. 18h. 54m. 45s. Epicentre 35°.4N. 136°.4E. See *Geophysical Magazine* I, 4, given by K. Wadati, p. 181.

A = -590, B = +562, C = +579.

	Corr. for Focus.	$\Delta$	P.		O - C <sub>1</sub>		S.		O - C <sub>1</sub>		P - C <sub>2</sub>		S - C <sub>2</sub>	
			m.	s.	s.	m. s.	s.	m. s.	s.	s.	s.			
Kobe	+1.8	1.2	0	53	+35	—	—	—	—	+6	—	—	—	
Sumoto	+1.5	1.6	1	1	+37	1	35	+50	+12	+9	—	—	—	
Matuyama	+1.0	3.4	0	47	-6	—	—	—	—	-25	—	—	—	
Mizusawa	+0.3	5.3	1	33	+11	2	38	+13	+6	+4	—	—	—	
Nagasaki	+0.2	6.0	1	31	-1	—	—	—	—	+4	—	—	—	
Ootomari	-1.0	12.2	2	51	-11	4	15	-69	+4	-44	—	—	—	
Zi-ka-wei	-1.2	13.2	2	54	-22	5	17	-34	-5	-2	—	—	—	
Manila	-2.2	25.0	e	5 1	-37	—	—	—	—	-14	—	—	—	
Irkutsk	-3.2	28.3	5	25	-46	e	8 34	-150	-14	-91	—	—	—	
			6	32	+21	9	42	-32	+53	-23	—	—	—	
Batavia	-5.2	50.0	19	33	+26	e	15 2	-77	+61	-10	—	—	—	
Ekaterinburg	-5.4	53.5	e	8 54	-36	e	15 49	-74	-1	-6	—	—	—	
			19	0	-30	1	15 52	-71	+5	-3	—	—	—	
Baku	-6.2	65.6	e	11 31	+42	1	18 30	-62	+83	+14	—	—	—	
Leningrad	-6.3	67.1	e	10 23	-36	1	18 46	-65	+5	+13	—	—	—	
Pulkovo	-6.3	67.2	e	11 25	+26	19	39	-12	—	+66	—	—	—	
Hamburg	-6.7	79.7	e	12 59	+42	21	44	-36	+83	+42	—	—	—	
Hohenheim	-6.8	83.6	—	—	—	e	21 41	-34	—	-6	—	—	—	
Strasbourg	-6.8	83.8	12	0	-41	1	21 49	-78	-1	0	—	—	—	
Uecla	-6.8	84.0	e	11 56	-46	—	—	—	-6	—	—	—	—	
Zurich	-6.9	85.0	11	51	-57	e	21 47	-92	-17	-14	—	—	—	
Kew	-6.9	85.2	12	3	-46	21	51	-90	-5	+11	—	—	—	
Paris	-6.9	86.3	e	12 7	-48	1	21 58	-95	-8	-18	—	—	—	
Mocalleri	-6.9	87.1	e	12 3	-57	1	22 1	-101	-17	-24	—	—	—	
Rocca di Papa	-7.0	87.3	e	11 26	-57	21	11	-153	-55	-76	—	—	—	
			12	22	-39	23	26	+61	+1	+59	—	—	—	
			12	47	-14	e	23 15	-107	+26	-32	—	—	—	
Toronto	-7.1	94.6	—	—	—	—	—	—	—	—	—	—	—	
La Paz	—	151.1	19	19	[-38]	—	—	—	[+4]	—	—	—	—	

5.—Let us first assume the focal depth to be normal so that the usual tables are applicable as they stand. Then  $\Delta$ , the distance of the station from the epicentre as given in the 3rd column, enables us to compare the times for P and S (shown in columns 4 and 6) with the tables. The differences observed—calculated—are shown in columns 5 and 7, under headings O - C<sub>1</sub>; and it will be seen that they are positive at small values of  $\Delta$ , and negative at large. There are some exceptions, and it seems probable that there was a second shock about a minute later than the first, as observed at Batavia (P), Baku (P), Leningrad (S), Pulkovo (P and S), and Hamburg (P and S?). But these exceptions are easily recognised, and there is no doubt whatever about the large negative residuals at the end of the table, which approximate to 50 sec. for P and 90 sec. for S. We can correct these by moving the epicentre nearer, but the copious Japanese observations do not allow us to displace it laterally along the earth's surface; we may only displace it downwards into the earth's interior; i.e., the focus must be deep. Tables for making the requisite corrections were investigated in the paper quoted by Mr. Wadati (*Geophys. Supp. to Mon. Not. R.A.S., Vol. I, No. 1 (1922)*).

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6.—In the present case a focal depth 0.055 below normal was assumed, and the corrections were obtained by interpolation between depths .050 and .060. They are shown in the second column of Table I; and when they are applied to the values of  $\Delta$  in the third column, the new residuals for P and S are shown in the last two columns under headings P—C<sub>2</sub> and S—C<sub>2</sub>. These are still positive near the epicentre and negative when  $\Delta$  is large, though the numerical values are considerably reduced; that is to say the assumption .055 is in the right direction but not large enough. (A few sentences suppressed). [But it is only fair to say that Mr. Wadati] does not claim great accuracy for his determination. Thus on p. 188 of his memoir he writes:

“So it will be understood that the values of the depth, velocity, etc., above calculated, show only approximate values of them.”

The same provisional character may be frankly admitted for the determination here made.

7.—Instead therefore of trying at present to get more closely accordant values for the same earthquake, let us rather look to accordance in the series of earthquakes picked out by the two methods. Mr. Wadati has given (on p. 177 of his paper) a list of “Deep Earthquakes observed in Japan” from 1924 to 1927. The first four of these have been dealt with in the International Summary already published, and may be briefly recalled.

1924 Feb. 21d. 22h. 42m. 50s. Epicentre 35°0N. 139°5E.  
(as on 1924 Feb. 11d.).

This is assumed to be one of the many repetitions of the great Japanese earthquakes in 1923 Sept. 1 and 2. For the first great shock (Sept. 1d. 2h. 58m. 28s.) the focus was normal, and so also for the first few repetitions; but on Sept. 2d. 2h. 46m. 40s. a focal depth +.010 below normal was assumed, and so far some other repetitions. On Feb. 21d. as above there is not sufficient material to make a determination of depth from distant stations, the only observations being of doubtful phases at Irkutsk and Ekaterinburg.

1924 April 3d. 2h. 30m. 30s. Epicentre 32°0N. 139°0E.  
*Assumed focal depth 0.050.*

This is a satisfactory determination from 3 stations between  $\Delta=55^\circ$  and  $\Delta=75^\circ$ , viz., Ekaterinburg, Baku, and Pulkovo, combined with 5 Japanese stations, and confirmed by the negative [P]=−33 sec. for La Paz for which  $\Delta=150^\circ 9$ .

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1924 June 3d. 2h. 41m. 42s. Epicentre  $34^{\circ}0N$ .  $139^{\circ}5E$ .

No determination of focal depth was attempted in the Summary as the only observations outside Japan were at Ekaterinburg and Pulkovo. But the residuals for these stations are large and negative; the S for Ekaterinburg (there is no P) suggests reduction of the  $\Delta$  from  $56^{\circ}2$  to  $53^{\circ}6$ , indicating focal depth 0.023.

The P and S for Pulkovo suggest reductions of  $\Delta$  from  $69^{\circ}8$  to  $66^{\circ}5$  and  $66^{\circ}8$  respectively, indicating focal depths 0.026 and 0.023. These are closely accordant determinations.

1924 Dec. 13d. 20h. 24m. 32s. Epicentre  $36^{\circ}5N$ .  $138^{\circ}5E$ .

Again no determination of focal depth was made in the Summary, since the material is scanty. But the residuals at Ekaterinburg and Pulkovo are distinctly negative, assigning as focal depth .033 and .057 respectively. The observations at Irkutsk are inconsistent with each other, and may be neglected.

8.—These are all the cases noted by Mr. Wadati in 1924. In 1925 he notes the following 3 cases which had already been worked up before his paper was received :

1925 Mar. 16d. 8h. 52m. 54s. Epicentre  $31^{\circ}5N$ .  $141^{\circ}5E$ .

At the time of writing the final computations for this shock are with the printer. But beyond 4 Japanese stations only Ekaterinburg is represented for which the P residual is +49 sec. and the S residual -82 sec. The latter indicates a deep focus and the former may refer to  $PR_1$  on the same supposition.

1925 Apr. 19d. 15h. 46m. 36s. Epicentre  $33^{\circ}0N$ .  $137^{\circ}5E$ .

Focal depth 0.045 below normal.

This case is complicated by the probable occurrence of another about 65 sec. later, the P of which was observed at Upsala, Konigsberg, Hamburg, De Bilt, Innsbruck, Uccle, Rocca di Papa, and possibly Venice and Pompeii. An erroneous reduction had in consequence been made in the ordinary course, but when attention was called to this earthquake by Mr. Wadati's paper it was seen that the assumption of a deep focus would clear up the matter. The reductions for some of the leading stations are as follows :—

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TABLE IV.

	Corr. for	$\Delta$	P.		O—C.		S.		O—C.	
	Focus.		m.	s.	s.	m.	s.	m.	s.	
Osaka	+0.8	2.4	0	59	+ 9	(1	46)	+ 18		
Sumoto	+0.8	2.5	0	58	+ 6	(1	42)	+ 11		
Kobe	+0.8	2.6	1	2	+ 9	(1	46)	+ 12		
Nagasaki	-0.1	6.4	1	32	- 4	(2	56)	+ 4		
Mizusawa	-0.2	6.8	1	40	- 1	2	53	- 7		
Zi-ka-wei	-1.2	13.7	e 3	7	+ 1	e 8	22	+170		
Ootomari	-1.2	14.2	e 3	0	-13	—	—	—		
Taihoku	-1.4	16.0	3	12	-22	—	—	—		
Hong Kong	-2.0	23.1	4	39	-15	8	31	- 15		
Manila	-2.2	23.8	e 4	53	- 7	(11	31)	+154		
Phu-Lien	-2.8	29.6	i 5	48	- 8	i 7	9	-208		
Irkutsk	-2.9	30.7	i 5	49	-17	i 10	30	- 25		
Batavia	-4.3	48.8	8	17	-13	i 14	52	- 17		
Malabar	-4.3	49.3	8	29	- 4	e 15	4	- 11		
Ekaterinburg	-4.8	55.9	i 8	12	-62	15	33	- 59		
Bombay	-5.0	58.9	9	37	+ 5	—	—	—		
Baku	-5.3	67.7	i 10	32	+ 4	i 19	4	+ 11		
Kucino	-5.4	68.2	10	36	+ 5	e 19	6	+ 8		
Pulkovo	-5.4	69.8	i 10	40	- 1	i 19	20	+ 2		

1925 May 27d. 2h. 29m. 54s. Epicentre  $36^{\circ}5'N$ .  $133^{\circ}0'E$ .

Focal depth 0.050 below normal adopted at Oxford in the ordinary course, without any knowledge of Mr. Wadati's paper.

9.—It remains to give, from the discussion covered by the *International Seismological Summary*, any further instances of deep focus in or near Japan suggested by the method therein followed. Now I am under the impression that it is useless to go back beyond 1924, for the reason that the great activity in observation in Japan, which has made the research of Mr. Wadati possible (by providing a great number of observations near the epicentre) was initiated as a result of the terrible disasters of 1923 Sept. 1 and 2. (At any rate his own list only begins in 1924). The only cases for consideration then are as follows :



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TABLE V.

	Date.				Epicentre.		Depth.
	d.	h.	m.	s.			
1924 Feb.	24	16	45	55	+45°0	+135°0	+030
Mar.	25	21	6	42	+43°0	+131°0	+060
Apr.	3	2	30	30	+32°0	+139°0	+050 (see above)
May	28	9	51	48	+48°0	+148°0	+060
June	30	15	44	18	+44°7	+147°6	+020
Dec.	27	11	22	0	+45°0	+143°0	+010
1925 Apr.	19	15	46	36	+33°0	+137°5	+045 (see above)
May	15	18	25	36	+30°5	+138°5	+050
May	27	2	29	54	+36°5	+133°0	+050 (see above)

10.—This is the complete list (of shocks anywhere near Japan) up to 1925 July 31, beyond which the computations for the Summary have not yet been made. It will be seen that those which were not noticed by Mr. Wadati are all probably too far away from his area to be noticed by him, though he may possibly find some evidence of great focal depth now that his attention is drawn to them.

11.—Mr. Wadati finds that the shocks with deep focus are collected in a little belt which crosses the general earthquake zone at right angles; the middle line of the belt extending from about 33°N. 140°E. to 37°N. 134°E. The epicentres found in the Summary extend this belt to the South-East; witness the list in Table VI.

TABLE VI.

	Date.				Epicentre.		Depth
	d.	h.	m.	s.	Lat. N.	Long. E.	(by Radius).
1923 June	29	10	47	38	30°6	144°0	0·060
1924 Apr.	3	2	30	30	32°0	139°0	0·050
1925 Apr.	19	15	46	36	33°0	137°5	0·045
1920 July	20	12	18	30	33°8	140°5	0·010
1924 June	2	2	41	42	34°0	139°5	0·025
1924 Feb.	21	22	42	50	35°0	139°5	0·010
1926 July	26	18	54	45	35°4	136°4	0·055
1925 May	27	2	29	54	36°5	133°0	0·050
1924 Mar.	25	21	6	42	43°0	131°0	0·060
1918 Apr.	10	2	3	44	44°0	131°0	0·070
1920 May	6	9	40	30			
1924 Feb.	24	16	45	55	45°0	135°0	0·030
1922 Aug.	14	11	41	8	52°0	131°5	0·010

N.B.—This list contains no date between Aug. 14 and Feb. 21, six months.

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12.—The first two in this list are in the ocean to the South-East of those shown in Mr. Wadati's map; the 8th shock (1925 May 27) shows an abrupt termination at the coast, as in Mr. Wadati's map. But there is possibly a continuation on the Asiatic coast as shown by the last four epicentres. The distribution of these epicentres over the rest of the earth's surface is being investigated.

13.—It is clear from Mr. Wadati's paper that there must be a vast amount of information collected in Japan which does not reach the *International Seismological Summary*, and I may be permitted to express the earnest hope that it may be communicated to us from as early a date as possible. This work is the lineal successor of the work started in Japan by John Milne forty years ago and carried on by him (after he left Japan in 1895) at his home at Shide in the Isle of Wight. On his death in 1913 I was permitted by Mrs. Milne to carry on the work at Shide until the end of the war, when she returned to Japan; the work was then transferred to Oxford. A copy of the *International Seismological Summary* will be sent to any observatory which will send its observations to me at the *University Observatory, Oxford, England*. I feel sure that Professor Imamura would support this request.

#### SUMMARY.

(a).—The cases of deep focus detected by Mr. Wadati from observations near the epicentre coincide very satisfactorily with those that have been detected by an independent method from observations at a distance, especially those near the Antipodes.

(b).—The list given by Mr. Wadati from 1924 to the middle of 1925 (see §7 of this paper) is supported in every instance by the reductions made for the *International Seismological Summary*. Beyond 1925 May the reductions have not yet been made. But since Mr. Wadati specially examines the earthquake of 1926 July 26d. 18h. (Greenwich time), the work for the Summary was carried out in advance and found to indicate a focal depth of 0.055 of the earth's radius below normal depth, agreeing fairly well with Mr. Wadati's result.

(c).—His belt of deep focus, crossing Japan nearly at right angles to the general earthquake belt, is confirmed and extended into Asia, with however a complete break between Japan and Asia.

(d).—The earnest hope is expressed that the results of the splendid activity now being shown in Japan may be communicated to the *International Seismological Summary*.

(End of paper, written in May, 1928).

Returning now to Mr. Wadati's second paper, it contains a list of "deep earthquakes observed in Japan from Jan. 1927 to April, 1928." It will be of great interest to investigate these as we arrive at them in the ordinary course of the work of the Summary; but in view of the complete accordance tabulated in the above paper we may confidently expect to find accordance in the future, and it seems unnecessary to turn further aside from the regular work, which is heavy. In an appendix, however, he adds the earthquake of "Jan. 15th, 1926, occurred at the Straits of Soya" writing "This earthquake is determined to be deep by the latest investigation, and must be added to those tabulated (Table II, p. 169, loc.cit.) in the former paper." In the *International Seismological Summary* for 1926, p. 15, it will be seen that this earthquake had already been credited with the rather large focal depth  $+0.60$ , although there were no confirmatory available observations of [P] near the anticentre. It may be added that the earthquake of 1926 April 1d. 16h., given in Mr. Wadati's first paper, is duly confirmed in the *International Seismological Summary* as having a focal depth  $+0.45$ .

Mr. Wadati's papers are full of interest; e.g., he draws attention to a curious characteristic of deep earthquakes, in that they are often felt at stations far from the epicentre though not at nearer ones.

Dr. Visser, of Batavia, has also written (Sep. Proceed. IV Pacific Sci. Congress, Java, 1929) on the subject, but we do *not* find agreement between his results and ours.

### A Few Special Notes.

The earthquakes of 1926 July 30d. 13h. at  $49^{\circ}2N. 1^{\circ}7W.$  (Channel Islands), and of 1926 Aug. 15d. 3h. at  $52^{\circ}2N. 2^{\circ}7W.$  (Hereford) were very fully discussed by Dr. H. Jeffreys in *Geop. Supp. to Mon. Not., R.A.S.*, Vol. I, p. 483 (June, 1927). The latter was also discussed by Dr. C. Davison in the *Geological Magazine LXIV*, pp. 162-7 (April, 1927). See also the *International Seismological Summary* for 1923 April-June, p. 70.

The earthquake of 1926 Aug. 9d. 3h. at  $52^{\circ}0N. 176^{\circ}0W.$  affords a good example of large negative residuals near  $\Delta=35^{\circ}$ ; see the discussion of residuals 1918—1922, in *Geop. Sup. M.N.R.A.S.* Vol. I, p. 425, (Dec. 1926).

The earthquake of 1926 Aug. 25 at  $28^{\circ}8S. 172^{\circ}5E.$  has a fine series of observations of [P] by European stations.

The Dominion Observatory, Ottawa, Canada, circulated a typescript referring to the Solomon Islands earthquake of 1926 Sept. 18, giving a letter from Dr. Svensen, stationed at Ovi Harbour Guadalcanal B.S.I. It also refers to p. 62 of the *Bibliographical Bulletin*, Vol. II, No. 3.

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### **The "Cretan" Earthquake and Past History.**

Reference was made in the last number of the Summary to Sir Arthur Evans's report (in *The Times*), of the earthquake on 1926 June 26 at  $36^{\circ}0'N$ .  $28^{\circ}0'E$ . which did much damage to the Candia Museum in Crete. Sir Arthur Evans wrote again to *The Times* on 1926 Sept. 20 commenting upon Cretan earthquakes in former times which might be identified with the "bellowing of the bull," and recalling the words of the Iliad "in bulls doth the Earth-Shaker rejoice." He proceeds :

"The discoveries connected with the 'House of the Fallen Blocks' had confirmed a mass of other data which had already convinced me that a great seismic overthrow had occurred at Knossos towards the end of the Third Middle Minoan Period."

and continues :

"It may be possible, even to fix approximately the date of seven earthquakes, four of them of great severity, between the last century of the third millenium and the beginning of the 14th century B.C."

Professor Turner replied in *The Times* of 1925 Sept. 24, showing how impossible it was at present to predict earthquakes or to recover dates of them in the past, but drawing attention incidentally to the recent memoir of Prof. Imamura (Proc. Imp. Acad., Japan) on the four beach lines in the Tertiary cliffs in Sagami Bay, which he attributes to the action of four great earthquakes, three of them mentioned in authentic history and therein dated A.D. 818, 1703, and 1923. The fourth was too early for this history, which only begins in A.D. 416.

### **Ship's Magnetic Compass Disturbance.**

The earthquake of 1926 August 3d. 9h. 26m. 8s., at  $35^{\circ}5'N$ .  $140^{\circ}0'E$ . is clearly the one referred to in the following report from ss. *West Holbrook*, taken from the Georgetown Seismological Despatches, quoting the U.S. Hydrographic Office. Such cases may be of the greatest importance in throwing light on the nature of earthquakes.

"1926 Aug. 3d. While the above-named vessel was entering the Gulf of Tokyo, 6.40 p.m. A.T.S. (apparent time of ship) on the above-named date, a slight tremor was felt, as if vessel was grounding. Vessel shivering and a noise was heard, as if touching a rocky ledge, but no reduction in speed could be noticed. Vessel heading at the time  $328^{\circ}$  P.S.C.,  $319^{\circ}$  True. Deviation  $3^{\circ}6'W$ . on course. Bearings were immediately taken of Suno Saki Light, bearing  $N26^{\circ}E$ . True, and Merano Hana Light bearing  $N93^{\circ}$  True; which placed vessel in latitude  $34^{\circ}55'N$ ., longitude  $139^{\circ}43'30'E$ ., and by chart in from 46 to 50 fathoms of water.

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From the above position to Yokohama the ship's compasses were acting queerly, having on northerly courses a deviation of  $0^{\circ} \cdot 5W.$ , where before they had been  $3^{\circ}$  West. Upon arrival in Yokohama we learned that an earthquake had taken place.

"The following morning, Aug. 4, azimuths were taken for recording deviation. The compasses were still found to be out. Aug. 5th azimuths were again taken and compasses were now found to be back to normal."

A case of disturbance of magnetic compasses is mentioned in this year's report to the British Association (S. African meeting), though there is some doubt as to the actual coincidence of the disturbance with the earthquake (that of 1928 April 22d. 20h. 13m. 50s., which partly destroyed Corinth).

Such cases of magnetic disturbance are clearly of great importance in several ways.

#### **Disturbance of Mercury Trough.**

On the occasion of the earthquake of 1926 August 30d. 11h., at  $36^{\circ}N. 23^{\circ}E.$ , an observer at the Radcliffe Observatory, Oxford, who was taking the nadir observation found the mercury trough agitated. This is the second occasion on which agitation of this kind has been noted at the Radcliffe Observatory, the first being on 1920 Dec. 16, during the Great Earthquake in China (see *Mon. Not. R.A.S.*, LXXXI, p. 454).

A word of welcome may here be offered to the Bulletin Seismique from Tananarive which we have received from January, 1929, though the equivalent in MS. was sent in 1928. We shall not reach the discussion of these observations in the I.S.S. for another year or more, but the neatness and completeness of the publication are attractive and congratulations are due to Father Poisson, S.J., one of the many workers in Seismology, of whom the Jesuit Order may be proud.

With deep regret we note the death of the Rev. E. F. Pigot, S.J., Director of the Riverview Observatory, at the age of 79. His death was announced in *The Times* on May 22 last. Seismological stations in the southern hemisphere are all too rare, and some of them have not yet been equipped with modern instruments. The Riverview readings have been for many years a tower of strength in the difficult work of interpreting the scanty and sometimes inconsistent readings of earthquakes in or near the Antarctic. In the present number of the Summary there is a good instance of these difficulties on Sept. 19d. 20h., where scarcely any determination was possible until the single observation from Riverview came to hand.

H. H. TURNER.

University Observatory, Oxford,  
1929 Oct. 6,

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1926 JULY, AUGUST, SEPTEMBER.

July 1d. 1h. 18m. 0s. (I) } Epicentre 44°·5N. 11°·0E. (as on 1926 June 30d.).  
 2h. 59m. 0s. (II)

A = +·700, B = +·136, C = +·701; D = +·191, E = -·982;  
 G = +·688, H = +·134, K = -·713.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
II Florence	0·7	166	0 20	+ 9	—	—	—	—
I Venice	1·3	45	0 34	+14	—	—	—	—
II	1·3	45	10 32	+12	1 28	+52	—	—
I Moncalieri	2·4	290	e 0 30	- 7	0 59	- 7	—	—
II	2·4	290	e 0 47	+10	1 59	+53	—	—
II Innsbruck	2·8	6	—	—	e 1 7	-10	—	—
I Rocca di Papa	3·0	154	e 0 34	-13	—	—	(e 1·9)	—
II	3·0	154	—	—	e 1 6	-17	e 1·6	—
I Zurich	3·3	330	e 1 0	+ 8	e 1 37	+ 6	—	—
II	3·3	330	e 0 45	- 7	i 1 29	- 2	—	—
I Zagreb	3·8	68	—	—	e 1 30	-14	—	—
II	3·8	68	e 1 12	+13	—	—	—	—
I Strasbourg	4·6	336	—	—	e 2 0†	- 6	—	—
II	4·6	336	e 2 0†	†S	(e 2 0†)	- 6	—	2·5
I Vienna	z.	5·2	44	—	—	—	e 3·1	—
II	z.	5·2	44	—	—	—	e 2·8	—
I Uccle	7·7	327	—	—	—	—	—	4·0
II De Bilt	8·5	335	—	—	—	—	—	5·0
I Pulkovo	19·2	31	—	—	e 8 30	+24	—	—

Additional readings: Venice I ePN = +50s., II ePN = +44s. Innsbruck II  
 iNE = +1m.13s. (O - C. = -4s.). Rocca di Papa I readings are given as  
 e and eP respectively; II readings are given as eE and eN.

July 1d. 14h. 8m. 45s. Epicentre 3°·0S. 100°·9E.

(as on 1919 July 21d.).

A = -·189, B = +·981, C = -·052; D = +·982, E = +·189;  
 G = +·010, H = -·051, K = -·999.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Batavia	6·7	119	11 40	- 2	13 6	+ 4	—	—	
Malabar	7·9	123	12 1	+ 1	i 3 42	+ 8	—	—	
Colombo	23·3	295	5 15	- 5	(9 40)	+ 9	9·7	16·1	
Phu-Lien	24·4	13	5 18	-14	19 28	-24	12·2	13·9	
Manila	26·5	48	e 5 48	- 5	—	—	i 11·4	—	
Kodalkanal	26·9	300	6 9	+12	—	—	14·4	17·6	
Ambolna	27·3	92	15 36	-25	(9 56)	-50	9·9	—	
Calcutta	28·3	335	3 8	-183	8 36	-148	13·2	—	
Hong Kong	28·4	27	5 55	-17	10 55	-11	14·1	17·2	
Hyderabad	30·1	314	6 29	0	11 29	- 7	14·6	21·0	
Perth	32·2	155	7 0	+10	11 48	-23	13·6	18·0	
Talhouku	E.	34·4	34	7 3	- 5	(12 24)	-22	12·4	26·2
	N.	34·4	34	7 1	- 7	(12 24)	-22	12·4	26·5
Bombay	35·2	310	7 1	-14	12 43	-15	18·3	20·9	
Zi-ka-wei	39·4	28	4 45	-185	10 40	-197	—	22·2	
Dehra Dun	39·8	329	14 0	†S	(14 0)	- 3	30·8	33·2	
Simla	E.	40·9	329	8 9	+ 7	14 9	-11	19·2	23·0
	N.	40·9	329	8 15	+13	14 15	- 5	—	—
Adelaide	47·4	138	e 8 50	0	i 15 38	- 8	22·0	39·8†	
Sumoto	49·1	35	9 1	—	(15 57)	-10	16·0	—	
Kobe	N.	49·5	35	—	—	—	—	34·6	
Osaka	49·7	35	9 2	- 3	16 15	0	28·5	34·8	
Melbourne	53·2	138	9 21	- 6	i 17 39	+40	28·6	35·8	
Irkutak	55·3	2	e 9 38	- 3	17 20	- 5	31·2	40·8	

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	56.0	37	(9 50)	+ 4	9 50	YP	—
Riverview		56.0	130	e 9 43	- 3	e 17 30	- 4	e 26.8 32.0
Sydney		56.0	130	9 33	-13	17 27	- 7	26.6 27.8
Baku		63.6	320	—	—	i 19 27	+19	30.2 34.0
Ekaterinburg		68.1	338	11 1	- 4	i 19 57	- 6	31.8 35.1
Platigorsk		69.8	320	e 11 19	+ 3	e 20 14	-10	35.2 44.2
Helwan		74.0	303	11 53	+11	21 28	+14	— 46.7
Christchurch		74.8	136	—	—	—	—	38.5 44.5
Wellington	E.	76.0	133	11 59	+ 4	21 26	-11	e 36.2 46.4
	N.	76.0	133	12 6	+11	e 21 34	- 3	i 32.2 39.8
Kucino		77.8	330	11 54	-12	21 53	- 5	36.0 44.8
Athens		81.8	310	12 30	+ 1	22 42	- 2	e 40.2 53.0
Cape Town		82.1	236	23 49	YS	(23 49)	+62	— 59.2
Pulkovo		83.0	332	12 30	- 6	22 56	- 1	40.4 53.0
Leningrad		83.1	332	12 32	- 5	22 56	- 2	36.8 54.1
Apia		86.7	103	e 34 15†	YSR <sub>1</sub>	—	—	e 45.2 —
Budapest		86.7	319	12 56	- 1	23 26	-12	— 65.9
Vienna		88.6	320	e 12 58	-10	23 58	- 1	e 46.2 64.2
Zagreb		88.6	316	e 13 1	- 7	e 23 24	[+ 5]	43.2 55.2
Graz		89.1	319	e 13 12	+ 1	i 24 0	- 4	— 36.2 57.6
Pompeii		89.2	312	e 12 20	-51	e 23 28	[+ 5]	— —
Upsala		89.3	330	e 13 10	- 2	e 23 37	[+13]	e 42.2 58.7
Naples		89.4	312	e 12 5	-67	e 22 50	[-34]	— —
Rocca di Papa		90.7	313	e 13 20	0	i 24 26	+ 5	e 45.8 —
Venice		91.1	316	13 52	+30	23 32	[- 3]	— —
Cheb		91.3	320	e 13 13	-10	e 23 57	-30	e 46.2 67.2
Florence		91.8	314	e 13 15	-11	24 15	-18	44.2 61.2
Hamburg		93.0	324	e 13 30	- 2	i 24 36	- 9	e 44.2 63.2
Ravensburg	E.	93.1	320	e 13 23	-10	e 23 48	[+ 1]	e 31.6 61.0
Hohenheim		93.4	320	e 13 31	- 3	i 23 57	[+ 9]	e 56.2 67.3
Zurich		93.8	316	e 13 34	- 3	e 23 55	[+ 4]	— —
Moncalieri		94.3	315	e 13 44	+ 4	23 52	[- 1]	40.6 64.4
Strasbourg		94.4	319	e 13 35	- 5	i 24 6	[+12]	39.2 75.2
Bergen		95.3	330	—	—	24 15†	[+16]	— 61.2
Besangon		95.5	317	e 16 51	YPR <sub>1</sub>	—	—	61.2 75.2
De Bilt		95.9	322	13 50	+ 2	—	—	e 48.2 50.2
Uccle		96.4	321	e 13 45	- 6	i 24 59	-21	e 39.2 62.2
Puy de Dôme		97.6	316	—	—	—	—	51.2 —
Paris		97.7	320	e 13 47	-11	e 24 33	[+22]	38.2 70.2
Algiers		98.0	308	e 13 47	-13	24 30	[+17]	e 45.2 56.2
Barcelona		98.5	312	—	—	24 33	[+17]	e 49.9 63.6
Kew		99.3	322	e 14 6	- 1	24 37	[+16]	40.2 64.4
Dyce		99.5	329	—	—	e 24 41	[+19]	41.2 54.4
Tortosa	E.	99.8	312	e 18 10	YPR <sub>1</sub>	24 38	[+15]	— —
	N.	99.8	312	e 18 5	YPR <sub>1</sub>	24 39	[+16]	e 32.0 69.6
Oxford		99.8	322	e 18 11	YPR <sub>1</sub>	—	—	50.2 67.8
Stonyhurst		100.2	324	e 14 27	+15	i 24 39	[+14]	53.2 61.8
Edinburgh		100.3	326	e 18 15	YPR <sub>1</sub>	i 24 39	[+14]	44.2 59.2
Bidston		100.7	324	25 25†	YS	(25 25†)	-37	40.6 54.4
Alicante		100.8	310	e 11 33	-161	22 8	[-140]	35.0 61.4
Honolulu	N.	101.3	69	—	—	25 33	-35	41.8 56.4
Almeria		102.4	309	—	—	i 24 51	[+15]	49.0 68.0
Toledo		103.3	311	—	—	e 24 40	[+ 1]	e 32.6 68.8
Granada		103.3	309	e 14 5	-22	i 25 4	[+25]	e 49.0 76.7
Malaga		104.0	309	e 12 41	-109	24 53	[+10]	33.7 75.4
San Fernando		105.5	309	19 35	YPR <sub>1</sub>	30 17	?	45.2 88.8
Rio Tinto		105.6	310	24 15†	YS	(24 15†)	[-35]	— 72.2
Victoria	E.	120.9	32	21 59	YPR <sub>1</sub>	33 32	?	53.6 66.2
Berkeley	E.	127.2	41	—	—	—	?	e 60.2 —
La Plata		137.2	205	—	—	—	—	65.6 —
Ottawa		137.5	356	e 19 47	[+12]	—	—	e 57.2 66.2
Tucson	E.	138.2	41	e 19 40	[+ 4]	—	—	65.6 76.6
Toronto	N.	139.3	0	—	—	e 45 43	YSR <sub>1</sub>	69.2 87.2
Harvard	E.	140.0	350	—	—	—	—	64.0 76.4
Ann Arbor	E.	140.5	4	—	—	e 47 27	YSR <sub>1</sub>	e 63.6 75.8
Ithaca		140.5	357	—	—	—	—	58.2 —
Chicago	E.	140.5	10	—	—	23 17	YPR <sub>1</sub>	e 57.8 76.6
Suere		154.1	211	20 56	[+55]	e 35 9	?	62.2 82.7
La Paz		157.6	209	20 17	[+11]	e 34 16	?	77.7 90.8

Additional readings and notes: Batavia i = +1m.47s. Malabar i = +2m.9s.  
 Phu-Lien MN = +16.0m. Perth readings have been increased by 1h.  
 Bombay SR<sub>1</sub> = +15m.11s. Zi-ka-wel PR<sub>1</sub> = +5m.7s., SR<sub>1</sub> = +11m.6s.,  
 MN = +24.5m., MZ = +25.6m. Dehra Dun S = +18m.15s. Adelaide

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SR<sub>1</sub> = +19m.6s., MN = +26.6m. Osaka MN = +35.4m. Melbourne  
 i = +21m.9s. = SR<sub>1</sub> + 3s., and +26m.45s. Irkutsk MNZ = +35.5m.  
 Riverview PS = +17m.49s., SR<sub>1</sub> = +21m.42s.; "Love" eL wave = +23.5m.  
 = SR<sub>2</sub> - 13s., MZ = +31.7m., MN = +32.5m. Sydney PR<sub>2</sub> = +13m.15s.,  
 SR<sub>1</sub> = +22m.33s. = SR<sub>1</sub> + 35s.; all readings have been diminished by 8m.  
 Baku MN = +33.9m., MZ = +44.3m. Ekaterinburg i = +21m.15s.,  
 iSR<sub>1</sub> = +24m.29s., MZ = +40.9m. Platigorsk P = +11m.25s., PR<sub>1</sub> =  
 +14m.46s., PR<sub>2</sub> = +16m.0s., PS = +20m.40s., SR<sub>1</sub> = +25m.40s., SR<sub>2</sub> =  
 +28m.38s., Christchurch SR<sub>1</sub> = +31m.7s. = SR<sub>1</sub> - 33s. Wellington  
 SR<sub>1</sub>N = +26m.21s. Kucino P<sub>1</sub>P = +12m.11s., S<sub>1</sub>P<sub>1</sub>S = +22m.6s., PPS =  
 +23m.37s., eSR<sub>1</sub> = +26m.8s., MN = +40.7m. Pulkovo MN = +48.6m.,  
 MZ = +54.1m. Leningrad i = +12m.42s., PR<sub>1</sub> = +15m.55s., PR<sub>2</sub> =  
 +18m.12s., MN = +53.5m. Budapest MN = +61.1m. Vienna  
 iPNZ = +13m.8s., iN = +17m.46s., PR<sub>1</sub> = +19m.49s., S<sub>1</sub>P<sub>1</sub>S = +23m.39s.,  
 PS = +24m.34s., PPS? = +26m.1s., SR<sub>1</sub>? = +29m.39s. Zagreb ePR<sub>1</sub> =  
 +16m.49s. Graz MN = +65.5m. Upsala MN = +49.6m. Rocca di  
 Papa e = +13m.14s., iPN = +13m.29s., eSE = +23m.57s. = [S] + 25s.,  
 eSN = +24m.1s. Venice eP = +14m.3s., S = +23m.55s. Hamburg  
 iSE = +24m.1s., iPR<sub>1</sub> = +34m.39s. = SR<sub>1</sub> - 52s., MN = +48.2m., MZ =  
 +55.2m. Moncalieri L = +45.1m. Strasbourg ePEN = +13m.51s.,  
 iPS = +24m.45s. = S - 15s., i = +26m.41s., MN = +53.2m., MZ = +88.8m.  
 De Bilt eE = +24m.18s. = [S] + 16s., +27m.45s. and +32m.17s. = SR<sub>1</sub>  
 + 30s., eN = +25m.0s. = S - 15s., eLN = +39.2m. = SR<sub>1</sub> + 18s., MZ =  
 +67.9m., MN = +72.2m. Uccle e = +24m.2s. = [S] - 3s., MN = +61.8m.  
 Paris PR<sub>1</sub> = +17m.51s. Barcelona e = +11m.11s., PS? = +25m.37s. =  
 S - 4s., SR<sub>1</sub> = +33m.24s. = SR<sub>1</sub> + 65s. Kew MN = +57.9m. Tortosa  
 L = SR<sub>1</sub> - 36s. Bidston S = +31m.25s.; all readings having been dimin-  
 ished by 1h. Honolulu PR<sub>1</sub>N = +22m.35s., PSE = +26m.15s. = S + 7s.,  
 PSN = +26m.27s., SR<sub>1</sub>N = +31m.15s. and +32m.33s., SR<sub>2</sub>E = +34m.45s.,  
 and +37m.48s. = SR<sub>2</sub> - 4s., SR<sub>2</sub>N = +35m.57s., SR<sub>2</sub>E? = +39m.35s., LE =  
 +47.2m., ME = +65.8m. Almeria MN = +65.4m. Toledo MNW =  
 +67.0m. Granada i = +17m.31s. = [P] - 28s., +18m.22s. = PR<sub>1</sub> - 13s.,  
 +19m.28s., +24m.2s. = [S] - 37s., and +27m.38s. Malaga, if we increase  
 the readings by 2min. S = +26m.53s. = S + 20s. San Fernando SR<sub>1</sub> =  
 +34m.45s., MN = +74.8m. Victoria PN = +23m.4s. Ottawa eN =  
 +22m.22s. = PR<sub>1</sub> + 3s., iN = +23m.18s., eE = +23m.33s., iE = +40m.37s.  
 = SR<sub>1</sub> + 15s., iN = +45m.45s. = SR<sub>2</sub> - 32s., eLN = +61.2m., MN = +68.2m.  
 Tucson eN = +19m.51s., ePR<sub>1</sub>N = +22m.20s., ePR<sub>1</sub>E = +22m.22s., PR<sub>1</sub>E =  
 +25m.15s., SR<sub>1</sub>E = +29m.33s. = PR<sub>1</sub> + 55s., SR<sub>2</sub>E = +46m.42s., MN =  
 +79.8m. Toronto LE = +62.2m., ME = +69.4m. Harvard LN =  
 +65.4m., MN = +82.4m. Ann Arbor eN? = +47m.33s., and +52m.51s.,  
 eE = +55m.39s. Chicago PR<sub>1</sub>E = +22m.40s., PR<sub>2</sub>E = +30m.28s.,  
 PS<sub>2</sub>F<sub>0</sub>SE = +32m.47s., PSE = +33m.38s., PPSE = +34m.45s., SR<sub>1</sub>E =  
 +40m.37s., +40m.47s., and +42m.3s., SR<sub>1</sub>E? = +54m.35s., and +55m.45s.  
 La Paz SR<sub>1</sub> = +45m.41s. = SR<sub>1</sub> + 81s., LN = +76.2m., MN = +87.2m.

July 1d. 19h. 33m. 50s. Epicentre 3°-0S. 100°-9E. (as at 14h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Batavia	6.7	119	11 42	0	13 26	+24	(13.4)	—
Malabar	7.9	123	11 57	- 3	4 0	+26	(4.0)	—
Kodaikanal	26.9	300	13 34	?L	—	—	(13.6)	—
Hong Kong	28.4	27	—	—	—	—	—	17.2
Irkutsk	55.3	2	—	—	e 17 14	-11	30.2	—
Baku	63.6	320	—	—	e 19 12	+ 4	e 34.2	—
Ekaterinburg	68.1	338	10 57	- 8	e 19 54	- 9	32.2	37.2
Pulkovo	83.0	332	—	—	—	—	e 51.2	—
Leningrad	83.1	332	—	—	—	—	50.2	—

Additional readings: Batavia iE = +3m.29s. Baku e = +27m.10s.†



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July 1d. 20h. 29m. 30s. Epicentre 5°·0S. 81°·5W.

A = +·147, B = -·985, C = -·087; D = -·989, E = -·148;  
G = -·013, H = +·086, K = -·996.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts.	N.	14·1	8	3 49	+22	7 29	+79	9·9	12·4
La Paz		17·4	132	14 11	+1	17 31	+4	9·8	11·4
Sucre		21·2	133	14 53	-2	18 54	+6	11·8	14·9
La Plata		37·0	148	17 14	-16	12 56	-28	20·5	—
Tucson	E.	46·5	325	8 52	+8	15 35	0	21·7	30·2
	N.	46·5	325	8 52	+8	15 36	+1	e 24·3	26·2
Chicago	E.	47·1	354	—	—	15 30	-12	26·1	27·9
Ann Arbor		47·3	357	e 8 42	-7	1 15 42	-3	e 23·2	24·4
Harvard		48·3	10	8 56	0	16 1	+3	e 23·1	30·3
Toronto	N.	48·7	1	19 0	+2	16 1	-1	23·5	29·1
Ottawa		50·6	6	19 14	+3	1 16 28	+2	e 22·9	32·0
Victoria		64·7	330	10 44	+1	19 34	+13	29·6	42·4
Honolulu	E.	79·4	294	—	—	22 42	+26	39·7	41·4
San Fernando		81·3	52	12 50	+23	22 46	+8	44·5	54·5
Granada		83·4	52	1 12 42	+4	23 17	+16	e 34·5	52·5
Almeria		84·4	52	e 12 52	+8	e 23 22	+10	—	—
Tortosa	N.	87·3	49	—	—	—	—	e 34·5	54·4
Stonyhurst		87·4	37	12 59	-2	23 44	-1	—	49·5
Edinburgh		87·6	34	e 13 0	-3	24 0	+12	—	52·5
Oxford		87·9	39	1 13 2	-2	1 23 29	[+15]	—	—
Kew		88·5	39	e 13 5	-3	23 45	-13	34·5	—
Dyce		88·5	32	—	—	e 23 55	-3	—	—
Algiers		88·7	53	e 13 34	+25	23 53	-7	53·5	61·5
Paris		89·8	40	1 13 12	-3	e 23 41	[+14]	44·5	53·5
Uccle		91·2	40	e 13 18	-4	e 23 51	[+16]	e 40·5	—
De Bilt		91·9	38	13 22	-4	e 23 56	[+17]	e 45·5	50·4
Moncalieri		93·0	45	e 15 10	+08	22 20	[-86]	26·3	—
Strasbourg		93·2	42	e 13 30	-3	e 24 5	[+18]	35·5	68·5
Zurich		93·7	44	e 13 31	-5	e 24 5	[+15]	—	—
Hamburg		94·9	37	e 13 45	+2	e 24 12	[+16]	e 49·5	54·5
Cape Town		95·5	126	—	—	—	—	—	60·5
Florence		95·5	47	17 0	?PR <sub>1</sub>	—	—	—	—
Cheb		96·4	40	—	-9	e 24 23	[+19]	e 46·5	62·5
Rocca di Papa	E.	96·5	49	e 13 43	-9	e 24 20	[+15]	—	—
Leningrad		105·1	29	—	—	e 25 2	[+14]	48·5	71·7
Pulkovo		105·2	29	—	—	25 1	[+13]	52·5	64·6
Kucino		110·3	31	e 19 12	?PR <sub>1</sub>	e 25 16	[+5]	—	—
Ekaterinburg		120·2	22	e 20 15	?PR <sub>1</sub>	—	—	50·5	80·2
Baku		123·9	42	e 20 55	?PR <sub>1</sub>	e 28 58	-20	e 73·5	—
Irkutsk		132·5	355	e 19 46	[+22]	—	—	39·5	—
Zi-ka-wei		146·1	323	e 13 25	?	14 54	?	—	—
Taihoku		150·2	314	e 15 26	?	—	—	—	—
Hyderabad		156·8	56	—	—	—	—	—	—
Kodaikanal		158·5	74	91 36	?L	—	—	(91·6)	—

Additional readings and notes: La Paz  $i = +4m.25s.$ ,  $iSN? = +8m.3s.$ ,  $MN = +13.3m.$ ,  $Sucre i = +5m.27s.$ ,  $+6m.3s.$ ,  $+7m.12s.$ , and  $+9m.18s. = SR_1 - 12s.$ ;  $T_0 = 20h.29m.17s.$  Tucson  $PR_1N = +10m.53s.$ ,  $SR_1N = +18m.35s.$ ,  $SR_1E = +18m.37s.$ ,  $SR_2N = +19m.37s.$  Chicago  $PSE = +15m.45s.$ ,  $S_0SE = +18m.30s.$ ,  $SR_1E = +19m.30s.$ ,  $SR_2E = +20m.48s.$ , and  $+21m.53s.$ ,  $SR_1E = +22m.30s.$  Ann Arbor  $ePR_1 = +11m.42s.$ ,  $eSR_1 = +19m.18s.$ ,  $eSR_2 = +20m.42s.$ ,  $LN = +23·5m.$ ,  $MN = +28·3m.$ ;  $T_0 = 20h.29m.24s.$  Harvard  $PN = +9m.13s.$ ,  $PR_1N = +10m.56s.$ ,  $1PSN = +16m.11s.$ ,  $eN = +16m.34s.$ ,  $SR_1N = +19m.54s.$  Toronto  $eN = +16m.13s.$ ,  $1E = +16m.15s.$ , and  $+18m.50s.$ ,  $MN = +31·4m.$ ;  $T_0 = 20h.29m.40s.$  Ottawa  $ePR_1N = +11m.15s.$ ,  $1E = +18m.58s.$  and  $+20m.26s. = SR_1 + 8s.$ ;  $T_0 = 20h.29m.39s.$  Victoria  $PE = +10m.59s.$ ;  $T_0 = 20h.29m.56s.$  Honolulu  $eE = +24m.24s.$  and  $+38m.12s.$ ,  $LN = +39·0m.$ ,  $MN = +41·0m.$  San Fernando  $MN = +52·5m.$  Granada  $PR_1 = +15m.24s.$ ,  $PR_2 = +18m.47s.$  Paris  $MN = +66·5m.$  Uccle  $i = +24m.18s. = S - 8s.$  De Bilt  $eN = +24m.27s. = S - 7s.$ , and  $+25m.39s.$ ,  $MZ = +67·3m.$ ,  $MN = +71·7m.$  Rocca di Papa  $e = +13m.17s.$ ,  $ePN = +13m.49s.$ ,  $PR_1E = +17m.33s.$  Leningrad  $ePR_1 = +18m.43s.$ ,  $eSR_1 = +33m.49s.$ ,  $MZ = +70·4m.$ ,  $MN = +73·3m.$  Pulkovo  $PR_1 = +18m.41s.$ ,  $PS = +27m.46s.$ ,  $SR_1 = +33m.42s.$ ,  $MN = +62·5m.$  Kucino  $e = +28m.47s.$ ,  $+29m.2s.$ , and  $+29m.48s.$  Ekaterinburg  $i = +20m.30s. = PR_1 + 4s.$ ,  $e = +25m.59s. = [S] + 14s.$ , and  $+30m.21s.$ ,  $MZ = +80·1m.$  Baku  $e = +38m.30s.$  Irkutsk  $e = +21m.52s. = PR_1 + 5s.$   $L$  is probably  $= SR_1 + 9s.$  Zi-ka-wei and Taihoku readings may belong to an independent shock.

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July 1d. Readings also at 0h. (Bergen and Zagreb), 1h. (Apia), 2h. (Granada), 4h. (Irkutsk (2), Ekaterinburg, Pulkovo, and Leningrad), 9h. (Sucre), 11h. (Apia), 14h. (near Laibach), 15h. (Batavia (2)), 16h. (Ann Arbor, Granada, and Tokyo), 17h. (Strasbourg), 19h. (Hong Kong, Tokyo, Batavia, Irkutsk, and Ekaterinburg), 21h. (La Paz and Granada), 23h. (Batavia, La Plata, and near Algiers).

July 2d. 5h. 25m. 30s. Epicentre 38°·5N. 22°·5E. (as on 1926 June 18d.).

A = +·723, B = +·299, C = +·623; D = +·383, E = -·924;  
G = +·575, H = +·238, K = -·783.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	1·2	116	0 8	-10	—	—	10·3	0·5
Pompeii	6·5	293	e 3 21	†L	—	—	e 3·4	—
Naples	6·8	293	e 3 5	†S	(e 3 5)	0	—	—
Rocca di Papa	8·1	296	—	—	e 3 2	-38	e 5·1	5·7
Florence	9·9	306	e 6 0	†L	—	—	e 6·0	—
Venice	10·2	316	e 4 28	†S	(e 4 28)	-7	e 5·5	—
Vienna	10·7	338	—	—	—	—	e 6·1	—
Zurich	13·4	316	e 3 30	+12	e 8 2	†L	(e 8·0)	—
Strasbourg	14·6	318	—	—	e 6 30†	+8	—	9·5
Hamburg	17·3	335	—	—	—	—	e 9·5	—
Paris	17·6	312	—	—	—	—	e 3·5	—
Uccle	17·7	320	e 4 12	-1	e 7 42	+9	e 9·8	—
De Bilt	18·1	324	e 4 22	+4	e 7 58	+16	e 10·5	—
Kew	20·5	316	e 6 30†	†	—	—	—	—
Pulkovo	21·8	9	5 5	0	9 0	-1	10·5	14·3
Leningrad	22·0	9	5 5	0	e 9 2	-3	11·1	14·2

Additional readings: Rocca di Papa e = 5h.24m.32s., and +3m.41s. Venice gives S as P and L as S. Leningrad MZ = +14·1m.

July 2d. 6h. 2m. 0s. Epicentre 19°·0S. 177°·0W. (as on 1926 June 27d.).

A = -·944, B = -·049, C = -·326; D = -·052, E = +·999;  
G = +·325, H = +·017, K = -·946.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7·3	45	1 46	-5	—	—	6·2	20·5
Riverview	31·9	236	—	—	—	—	e 14·9	19·4
Adelaide	42·2	238	e 9 0†	+48	e 15 30	+52	e 19·8†	25·4
Honolulu	E. 44·4	26	—	—	—	—	e 21·6	23·5
Irkutsk	98·3	322	—	—	e 24 30	[+15]	—	—
Chicago	E. 102·3	50	—	—	e 30 31	†	57·1	57·8
Toronto	E. 108·4	49	—	—	—	—	62·0	—
Ottawa	E. 111·0	48	—	—	e 25 12	[-2]	e 63·0	—
Leningrad	134·6	340	—	—	—	—	e 80·0	—
Baku	134·7	309	—	—	—	—	e 90·1	—
Pulkovo	134·8	340	—	—	—	—	e 81·3	—
De Bilt	146·9	358	e 20 0	[+9]	—	—	e 103·0	—
Kew	147·5	4	e 20 0†	[+8]	—	—	e 85·0	—
Strasbourg	150·2	352	e 22 0†	†	—	—	e 88·0	—
Paris	150·3	1	e 20 0†	[+4]	—	—	e 88·0	—
San Fernando	160·8	23	—	—	—	—	e 88·0	128·0
Granada	161·0	16	e 20 24	[+15]	1 31 33	†PR,	e 65·0	88·5

Additional readings: Apia +3m.37s. and +4m.28s. Riverview MN = +16·6m. Adelaide MN = +23·5m. Irkutsk e = +23m.24s. Chicago eE = +38m.10s. = SR<sub>2</sub> + s., and +50m.18s. Ottawa eE = +36m.0s. †, eN = +54m.0s. Granada i = +21m.0s., and +24m.50s. = PR<sub>1</sub> + 6s. San Fernando MN = +126·0m.

July 2d. Readings also at 1h. (near Berkeley), 2h. (near Manila), 5h. (Tokyo), 7h. (Granada and Irkutsk), 8h. (Ottawa), 9h. (Irkutsk), 13h. (Ekaterinburg, Irkutsk, Pulkovo, and Leningrad), 15h. and 18h. (Apia), 19h. (Ekaterinburg and Granada), 20h. and 21h. (Ekaterinburg), 22h. (Florence, Venice, Strasbourg, Zagreb, near Moncalieri, and Zurich), 23h. (Ekaterinburg),

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July 3d. 3h. 46m. 54s. Epicentre 8°·7S. 111°·0E. (given by Batavia).

A = -·354, B = +·923, C = -·151; D = +·934, E = +·358;  
G = +·054, H = -·141, K = -·988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	3·7	293	11 4	+ 6	11 52	+10	—	—
Batavia	4·8	300	1 21	+ 7	2 7	- 4	—	—
Amboina	17·8	75	3 36	-39	6 52	-44	—	—
Manila	25·3	23	e 5 43	+ 2	—	—	6·7	—
Phu-Lien	29·8	352	—	—	—	—	13·1	—
Irkutsk	61·2	355	10 12	- 8	18 27	-11	33·1	—
Baku	74·6	317	11 42	- 4	21 13	- 8	35·8	42·0
Ekaterinburg	77·3	334	111 55	- 8	121 36	-16	32·6	47·8
Pulkovo	92·9	330	113 11	-21	124 10	-34	46·1	58·9
Leningrad	93·0	330	113 14	-18	24 14	[+28]	49·1	59·5
De Bilt	106·6	321	—	—	e 25 20	[+25]	e 60·1	—
Granada	114·8	306	—	—	—	—	e 66·1	72·8
Ottawa	142·8	6	—	—	—	—	e 77·1	—
Toronto	143·9	12	—	—	—	—	77·1	—
Sucre	152·0	188	20 24	[+25]	—	—	—	—
La Paz	154·8	182	20 0	[- 2]	—	—	—	—

Additional readings: Batavia i = +1m.52s., Irkutsk PR<sub>2</sub> = +13m.59s., Baku MN = +40·8m., MZ = +51·6m., Pulkovo PR<sub>1</sub> = +16m.57s., S<sub>1</sub>P<sub>1</sub>S = +23m.38s. = [S]-7s., SR<sub>1</sub> = +30m.36s., MN = +55·5m., Leningrad S<sub>1</sub>P<sub>1</sub>S = +23m.42s. = [S]-4s., e = +25m.23s.

July 3d. Readings also at 0h. (Ekaterinburg), 1h. (near Amboina), 7h. (La Paz and Sucre), 8h. (Colombo and near Tucson), 10h. (Irkutsk and Perth), 11h. (Tokyo), 13h. (La Paz), 17h. (Florence), 18h. (La Paz, Sucre, Ottawa, Toronto, and Granada), 19h. (Strasbourg, Kew, Leningrad, Florence, Kucino, and Baku), 23h. (Sucre).

July 4d. Readings at 1h. (Leningrad), 2h. (Ottawa, Toronto, and Tucson), 4h. (Baku), 5h. (Batavia), 6h. (Tokyo and near Nagoya), 10h. (near Christchurch), 11h. (Puebla, Oaxaca, and Tacubaya), 13h. (Batavia and Sucre), 16h. (Uccle, Strasbourg, and near Athens (2)), 19h. (near Balboa Heights), 22h. (Strasbourg and near Amboina), 23h. (Strasbourg, Granada, Zagreb, near Sarajevo, and Belgrade, also Tacubaya).

July 5d. 9h. 21m. 42s. Epicentre 37°·5N. 27°·5E. (as on 1925 July 29d.).

A = +·704, B = +·366, C = +·609; D = +·462, E = -·887;  
G = +·540, H = +·281, K = -·793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3·0	278	11 1	+14	1 31	+ 8	11·6	1·9
Helwan	8·3	156	12 2	- 4	13 21	-24	—	3·4
Pompeii	10·5	294	e 4 26	†S	(e 4 26)	-17	—	—
Naples	10·8	292	e 1 51	-50	—	—	—	—
Budapest	11·7	331	13 3	+ 8	—	—	—	—
Zagreb	11·9	318	e 3 3	+ 5	—	—	e 6·7	—
Rocca di Papa	12·1	295	e 2 56	- 4	e 8 27	†	—	—
Florence	13·8	302	(e 3 43)	+20	(8 28)	†	—	(12·8)
Venice	13·8	310	2 32	-51	—	—	—	—
Moncalieri	16·6	303	3 26	-34	7 28	+19	—	—
Ravensburg	16·6	314	13 41	-19	—	—	—	—
Zurich	17·0	312	14 6	+ 1	e 7 18	0	—	—
Baku	17·6	74	e 4 48	+36	e 7 50	+19	e 8·5	—
Strasbourg	18·1	314	14 17	- 1	—	—	7·3	—
Besançon	18·5	308	4 22	- 1	—	—	—	—
Kucino	19·6	18	e 4 41	+ 5	8 19	+ 4	—	—
Hamburg	20·1	328	e 4 42	0	e 8 18	- 7	—	—
Tortosa	E. 21·0	287	4 43	-10	8 28	-16	—	—
	N. 21·0	287	4 44	- 9	8 29	-15	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	21.1	316	e 4 49	- 5	—	—	—	—
De Bilt	21.4	320	e 4 53	- 5	e 8 44	- 9	e 9.3	—
Pulkovo	22.3	4	1 5 8	—	1 9 5	- 6	—	—
Leningrad	22.6	4	5 11	- 1	e 9 8	- 9	10.2	—
Upsala	23.2	347	—	—	e 9 38	+ 9	—	—
Granada	24.6	279	e 4 45	-49	1 8 44	-71	—	12.6
Ekaterinburg	29.2	38	—	—	—	—	19.8	—

Additional readings and notes: Athens MN = +1.6m. Zagreb e = +3m.41s.  
 Rocca di Papa iP = +3m.4s. Florence readings have been increased by 5m.  
 Strasbourg i = +5m.27s. Kucino i = +5m.5s. and +5m.23s. Leningrad  
 eP = +4m.10s., but the e given above seems better. Upsala e = +9m.18s.  
 Granada i = +5m.20s.

July 5s. Readings also at 6h. (Nagoya), 8h. (Ravensburg), 10h. (Wellington),  
 11h. (Wellington (3) and near Rocca di Papa), 12h. (near Tacubaya),  
 13h. (Ekaterinburg and Pulkovo), 15h. (Wellington), 18h. (Irkutsk),  
 19h. (Ekaterinburg, Amboina, near Batavia, and Malabar), 23h.  
 (Ekaterinburg and La Paz).

July 6d. 7h. 39m. 8s. Epicentre 47°5N. 15°8E. (as on 1919 Sept. 5d.).

A = +.650, B = +.184, C = +.737; D = +.272, E = -.962;  
 G = +.709, H = +.201, K = -.676.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Graz	0.5	209	10 7	- 1	—	—	—	0.2
Vienna	0.8	26	10 12	0	0 25	+ 3	—	0.6
Zagreb	1.7	176	e 0 32	+ 6	10 55	+ 7	—	—
Laibach	1.7	221	(e 0 29)	+ 3	(10 51)	+ 3	—	(1.1)
Innsbruck N.W.	3.0	268	e 0 48	+ 1	e 1 24	+ 1	—	—
Venice	3.1	230	0 49	0	1 48	+22	—	—
Ravensburg E.	4.2	277	11 15	+10	11 49	- 6	12.0	2.5
Hohenheim	4.5	289	1 25	+15	12 4	0	—	2.5
Zurich	4.9	272	11 9	- 7	e 2 27	+13	—	—
Strasbourg	5.5	285	e 1 11	-14	2 26	- 5	e 2.9	—
Moncalieri	6.1	249	e 1 10	-23	3 11	+25	5.9	—
Rocca di Papa	6.2	202	—	—	—	—	e 3.3	—
Besançon	6.6	272	—	—	—	—	3.4	—
Hamburg	7.1	331	—	—	—	—	e 3.8	—
Uccle	8.2	298	—	—	—	—	e 4.2	—
De Bilt	8.3	308	—	—	—	—	e 4.4	—
Paris N.	9.0	284	—	—	—	—	e 4.6	—
Pulkovo	14.9	29	—	—	—	—	e 8.0	—

Additional readings: Vienna iE = +15s., PR<sub>1</sub> = +16s. Zagreb iPR<sub>1</sub> =  
 +33s., iPS = +37s., and +53s. Laibach e = +45s.; all readings have  
 been increased by 1m. Venice P = +59s., and +1m.12s., S = +3m.29s.  
 Hohenheim PN = +1m.27s. Rocca di Papa ePN = +3m.31s., ePE =  
 +3m.34s., PR<sub>1</sub>N = +3m.46s., PR<sub>1</sub>E = +3m.48s. De Bilt gives epicentre  
 47°6N. 15°7E. Paris eE = +4m.48s.

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July 6d. 16h. 28m. 5s. Epicentre 33°·5N. 71°·0E. (as on 1923 Aug. 31d.).

A = +·255, B = +·740, C = +·623; D = +·946, E = -·326;  
G = +·203, H = +·589, K = -·783.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	9·0	143	e 2 13	- 3	—	—	4·4	—
Baku	16·4	283	e 4 29	+32	—	—	e 8·9	—
Ekaterinburg	19·5	343	i 4 40	+ 5	8 17	+ 4	i 10·4	11·3
Irkutsk	26·8	48	e 5 56	0	e 10 0	-37	13·9	—
Pulkovo	33·2	325	e 6 56	- 2	e 12 23	- 4	15·2	21·3
Leningrad	33·3	325	e 7 0	+ 1	—	—	15·9	21·8
Upsala	39·4	322	—	—	—	—	20·9	—
Zi-ka-wei	41·5	84	—	—	—	—	e 22·0	—
Hamburg	43·4	312	—	—	—	—	e 19·9	—
Strasbourg	45·6	305	—	—	—	—	19·9	—
De Bilt	E. 46·5	310	—	—	—	—	e 25·9	—
Uccle	47·3	308	—	—	—	—	e 18·9	—
Kew	49·9	310	—	—	—	—	e 25·9	—

Additional readings: Simla PN = +3m.31s. Baku P would accord better with PR<sub>1</sub>, i = +10m.52s. Ekaterinburg MZ = +12·1m. Leningrad MZ = +20·8m., MN = +21·0m. De Bilt eLN = +24·9m.

July 6d. 21h. 20m. 30s. Epicentre 12°·7N. 94°·5E.

A = -·077, B = +·973, C = +·220; D = +·997, E = +·078;  
G = -·017, H = +·219, K = -·976.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	14·1	53	4 30?	+63	—	—	—	—
Kodalkanal	16·9	264	2 0	-124	—	—	—	—
Irkutsk	40·4	9	7 57	- 1	14 13	0	23·5	—
Baku	47·9	314	—	—	e 15 38	-15	27·0	—
Ekaterinburg	51·2	337	19 13	- 1	16 30	- 4	23·5	29·7
Kucino	61·1	327	—	—	18 37	0	34·6	43·4
Pulkovo	66·2	330	i 10 55	+ 2	i 19 42	+ 2	34·2	42·7
Leningrad	66·3	330	i 10 56	+ 2	i 19 44	+ 3	34·5	—
Vienna	Z. 72·7	317	e 11 33	- 1	—	—	—	—
De Bilt	79·3	321	—	—	—	—	e 44·5	—
Ottawa	N. 121·2	352	—	—	—	—	e 65·5	—
Toronto	N. 123·4	355	—	—	—	—	62·5	—

Additional readings: Ekaterinburg MZ = +32·1m., MN = +33·0m. Kucino e = +22m.44s. = SR<sub>1</sub> -43s., MN = +38·3m. Pulkovo MN = +43·1m.

July 6d. Readings also at 0h. (Pulkovo and Leningrad), 1h. (Pulkovo, Leningrad, Baku, and Ekaterinburg), 5h. (near Kobe and Sumoto), 9h. (Paris), 10h. (Leningrad, Pulkovo, Baku, and Ekaterinburg), 11h. (Agana), 13h. (Ekaterinburg), 14h. (Ottawa and Toronto), 15h. (Agana), 16h. (near Tacubaya), 17h. (Ekaterinburg), 19h. (Irkutsk), 20h. (near Amboina).

July 7d. 2h. 38m. 57s. Epicentre 8°·7S. 111°·0E. (as on July 3d.).

A = -·354, B = +·923, C = -·151; D = +·934, E = +·358;  
G = +·054, H = -·141, K = -·988.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	3·7	293	0 58	0	i 1 43	+ 1	—	—
Batavia	4·8	300	1 18	+ 4	2 8	+ 3	—	—
Ekaterinburg	77·3	334	i 11 45	-18	21 27	-25	39·0	—
Pulkovo	92·9	330	—	—	—	—	e 56·0	—
Leningrad	93·0	330	—	—	—	—	e 55·0	—

Malabar gives also i = +1m.4s.

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July 7d. 11h. 41m. 24s. Epicentre 8°7S. 111°0E. (as at 2h.).

A = -0.354, B = +0.923, C = -0.151; D = +0.934, E = +0.358;  
G = +0.054, H = -0.141, K = -0.988.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Malabar	3.7	293	11 0	+ 2	11 48	+ 6	—	—
Batavia	4.8	300	11 20	+ 6	2 19	+ 8	—	—
Manila	25.3	23	e 5 52	+11	—	—	—	—
Phu-Lien	29.8	352	7 36†	+70	—	—	—	—
Hong Kong	31.2	5	—	—	—	—	—	—
Adelaide	36.5	140	—	—	—	—	e 19.1	22.8
Zi-ka-wel	41.1	14	e 7 36†	-28	e 14 8	-14	—	23.6
Melbourne	42.2	140	—	—	—	—	e 22.1	26.2
Riverview	44.7	131	—	—	—	—	e 26.1	30.1
Sydney	44.7	131	23 18	†L	—	—	(27.3)	28.6
Irkutsk	61.2	355	e 10 19	- 1	18 36	- 2	33.6	—
Baku	74.6	317	11 39	- 7	21 11	-10	37.6	—
Ekaterinburg	77.3	334	i 11 57	- 6	21 40	-12	33.6	48.6
Pulkovo	92.9	330	—	—	—	—	e 54.1	60.5
Leningrad	93.0	330	—	—	—	—	e 55.6	—
De Bilt	106.6	321	—	—	e 24 57	[+ 2]	e 54.6	—
Uccle	107.2	320	—	—	—	—	e 55.6	—

Additional readings and notes: Malabar i = +1m.5s., and +1m.42s. Batavia  
i = +1m.41s. Adelaide MN = +22.4m. Riverview MN = +27.0m.  
Ekaterinburg MN = +45.3m.

July 7d. Readings also at 2h. (Ekaterinburg), 3h. (Victoria), 4h. (Sydney and Ekaterinburg), 6h. (Sydney), 14h. (near Algiers), 16h. (near Sarajevo).

July 8d. 7h. 16m. 10s. Epicentre 34°0S. 57°0E. (as on 1926 May 31d.).

A = +0.452, B = +0.695, C = -0.559; D = +0.839, E = -0.545;  
G = -0.305, H = -0.469, K = -0.829.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Baku	74.7	355	e 11 41	- 6	21 24	+ 2	35.8	—
Granada	90.8	317	—	—	i 24 28	+ 6	43.8	52.5
Ekaterinburg	90.9	3	13 7	-14	i 24 20	- 3	35.8	—
San Fernando	91.8	315	—	—	—	—	—	58.3
Irkutsk	95.6	27	e 16 51	†PR <sub>1</sub>	—	—	e 49.8	—
Pulkovo	96.3	348	e 22 8	†PR <sub>2</sub>	—	—	—	—
Uccle	96.6	330	—	—	—	—	e 47.8	—
De Bilt	97.3	332	—	—	—	—	e 49.8	—
La Paz	107.4	235	37 46	†SR <sub>1</sub>	—	—	—	—
Ottawa	142.5	302	—	—	—	—	e 73.8	—
Toronto	E. 145.1	299	—	—	—	—	84.1	—
Chicago	E. 151.2	296	—	—	—	—	e 86.8	—

Additional readings: San Fernando MN = +50.8m. Irkutsk e = +44m.31s.

July 8d. 14h. 59m. 12s. Epicentre 39°7N. 44°0E.

A = +0.553, B = +0.535, C = +0.639; D = +0.695, E = -0.719;  
G = +0.459, H = +0.444, K = -0.769.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Piatigorsk	4.4	351	e 1 19	+11	—	—	1.6	3.0
Baku	4.5	80	e 1 11	+ 1	2 2	- 2	—	5.2
Kucino	16.5	348	4 0	+ 1	(17 7)	—	8.9	—
Ekaterinburg	20.3	27	4 40	- 5	8 25	- 4	9.8	13.7
Pulkovo	21.8	341	e 5 6	+ 3	9 4	+ 3	10.8	13.7
Leningrad	22.0	341	5 4	- 1	e 9 6	+ 1	10.7	14.2
Hamburg	26.8	312	—	—	—	—	e 13.8	16.8
De Bilt	29.3	308	—	—	—	—	e 15.8	—
Uccle	29.6	305	—	—	—	—	—	16.8
Irkutsk	42.4	52	—	—	—	—	—	—

Additional readings: Piatigorsk iP = +1m.28s. Baku e = +1m.35s.  
Kucino P = +4m.4s.; S is given as iP.P. Ekaterinburg MN = +14.2m,  
MZ = +15.1m.

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July 8d. Readings also 5h. (near Algiers), 11h. (Manila), 13h. (Malaga), 15h. (Baku), 16h. (Ekaterinburg (2) and Baku), 20h. (Tokyo), 23h. (Batavia).

July 9d. 15h. 5m. 24s. Epicentre 38°-5N. 30°-5W.

A = +.674, B = -.397, C = +.623; D = -.508, E = -.862;  
G = +.536, H = -.316, K = -.783.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Azores	3.9	99	0 6	-55	—	—	—	1.8
San Fernando	19.3	88	4 33	0	8 21	+13	—	10.6
Toledo	20.5	78	e 4 48	+ 1	e 8 32	- 2	e 9.3	10.7
Malaga	20.6	87	4 50	+ 2	8 40	+ 4	10.8	—
Granada	21.2	85	i 4 58	+ 3	i 8 46	- 2	i 9.7	11.5
Almeria	22.2	85	e 4 50	-17	e 8 29	-40	e 10.4	—
Alicante	23.4	81	4 56	-25	8 51	-42	10.4	—
Tortosa	23.9	75	5 37	+10	e 9 35	- 7	11.0	12.6
Stonyhurst	24.5	42	e 4 17	-76	9 52	- 2	—	—
Kew	24.7	48	e 5 37	+ 2	—	—	12.6	—
Barcelona	25.0	73	e 5 33	- 5	e 10 7	+ 4	e 12.5	13.6
Edinburgh	25.1	37	—	—	e 10 6	+ 1	—	—
Paris	25.8	55	e 5 36†	-10	(9 36†)	-42	9.6	11.6
Dyce	26.3	36	—	—	e 10 19	- 9	12.6	15.6
Uccle	27.3	52	e 6 30	+29	e 10 36	-10	e 11.6	13.7
De Bilt	28.1	49	—	—	e 10 55	- 6	e 12.6	15.8
Strasbourg	29.1	57	e 6 8	-11	e 9 36†	-103	12.6	—
Hamburg	31.3	48	—	—	e 9 36†	-140	—	16.6
Florence	31.5	67	8 18	+95	11 48	-12	—	15.9
Ottawa	33.9	297	—	—	—	—	e 17.2	—
Pulkovo	43.1	40	e 8 17	- 2	14 42	- 7	20.6	25.8
Leningrad	43.1	40	e 8 19	0	—	—	21.2	25.7
Kucino	47.4	45	—	—	e 15 44	- 2	23.9	24.3

Additional readings: San Fernando MN = +11.1m. Toledo MNW = +10.8m. Tortosa eSN = +9m.37s. Uccle, is L really SR, †, as also for De Bilt and Strasbourg † De Bilt MN = +14.4m., MZ = +15.8m. Florence, is P really PR, † Pulkovo SR, = +18.0m., MZ = +25.2m. Kucino e = +19m.13s. = SR, -3s.

July 9d. Readings also at 1h. (near Sumoto), 5h. (Baku), 9h. (La Plata), 11h. (Baku), 13h. (Phu-Lien, Hong Kong, and near Batavia), 14h. (Irkutsk, Baku, and Pulkovo), 15h. (Athens and Irkutsk), 20h. (near Mostar).

July 10d. 1h. 17m. 0s. Epicentre 3°-5S. 129°-0E. (as on 1926 April 27d.).

A = -.628, B = +.776, C = -.061; D = +.777, E = +.629;  
G = +.038, H = -.047, K = -.998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Amboina	0.8	266	10 19	+ 7	10 58	+36	—	—
Manila	19.8	336	14 50	+11	(8 24)	+ 5	8.4	—
Batavia	22.2	262	e 4 42	-25	19 29	+20	15.0	—
Hong Kong	29.6	331	—	—	—	—	—	14.5
Phu-Lien	32.7	319	—	—	12 0†	-19	—	—
Adelaide	32.7	165	—	—	—	—	—	18.2†
Riverview	36.7	148	e 15 39	†SR, †	—	—	23.0	27.6
Sydney	36.7	148	—	—	20 30	†L	24.4	25.3
Melbourne	37.3	159	(7 42)	+10	13 0	-28	i 21.0	23.5
Osaka	38.7	10	7 24	-20	(14 15)	+27.	14.2	19.4
Kodakanal	53.1	285	34 24	†L	—	—	(34.4)	—
Irkutsk	59.6	342	e 10 14	+ 5	—	—	26.0	—
Honolulu	75.5	67	—	—	21 25	- 7	34.8	42.6
Baku	84.0	311	e 12 44	+ 2	23 12	+ 4	42.0	55.3
Platigorsk	89.5	315	—	—	1 23 51	-18	—	—
Pulkovo	97.4	330	e 13 45	-11	24 37	[+27]	47.0	53.5
Leningrad	97.4	330	—	—	—	—	e 50.0	59.2
Upsala	103.6	332	—	—	—	—	52.0	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	104.3	40	27 37	18	(27 37)	+61	47.4	54.8
Strasbourg		112.8	320	—	—	—	—	60.0	—
De Bilt		112.9	325	—	—	—	—	e 57.0	60.4
Uccle		113.9	324	—	—	e 32	0?	e 58.0	—
Dyce		114.0	333	—	—	—	—	57.5	—
Edinburgh		115.2	330	—	—	—	—	61.0	—
Paris		115.9	322	—	—	—	—	e 66.0	—
Kew		116.2	327	—	—	—	—	e 74.0	—
Granada		125.1	312	—	—	—	—	e 75.0	78.0
San Fernando	E.	127.3	312	—	—	—	—	—	78.5
Toronto	E.	132.7	27	—	—	—	—	72.4	—
Ottawa		132.9	21	—	—	—	—	e 62.0	—
La Paz		153.8	140	20 25	[+24]	—	—	—	—

Additional readings: Amboina iN = +28s. Adelaide MN = +25.9m.  
 Melbourne SR<sub>1</sub> = +17m.30s., i = +19m.36s., P is given as PR<sub>1</sub>. Baku  
 MN = +48.2m. Irkutsk L = SR<sub>2</sub> +0s. Pulkovo e = +18m.21s. =  
 PR<sub>1</sub> +25s., MZ = +70.6m. De Bilt MN = +62.2m., MZ = +78.4m.  
 Granada e = +59m.0s. San Fernando MN = +88.5m.

**July 10d. 10h. 51m. 3s. Epicentre 1°0N. 126°0E.**

A = -588, B = +809, C = +017; D = +809, E = +588;  
 G = -010, H = +014, K = -1.000.

De Bilt gives 0°3N. 126°0E., Zurich 2°0N. 126°0E., but neither suits very well, and the above is a compromise between the two.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Amboina		5.1	155	(1 22)	+ 3	(1 59)	-21	—	—
Manila		14.5	340	e 3 39	+ 6	—	—	17.7	8.7
Malabar		20.1	246	4 44	+ 2	18 30	+ 5	e 11.0	—
Batavia		20.4	249	4 43	- 3	18 28	- 4	—	—
Hong Kong		24.3	332	e 5 25	- 6	(9 55)	+ 5	9.9	11.6
Taihoku		24.4	350	e 5 45	+13	9 49	- 3	15.2	17.1
Phu-Lien		27.4	318	e 5 54	- 8	10 34	-14	12.0	17.2
Zi-ka-wei		30.6	354	e 6 37	+ 3	11 22	-22	—	25.0
Nagasaki		32.0	7	e 6 38	- 9	—	—	—	—
Hukuoka		32.9	8	6 48	- 8	12 46	+24	20.0	—
Sumoto		34.4	14	7 7	- 1	(12 30)	-16	12.5	—
Osaka		34.8	14	7 15	+ 4	12 58	+ 6	21.8	24.2
Kobe		34.8	14	e 6 59	-12	—	—	—	—
Nagoya		35.7	16	e 3 1	-258	—	—	—	—
Adelaide		37.8	164	6 57?	-39	12 57	-38	16.7?	28.6
Mizusawa	E.	40.6	20	7 51	- 9	14 0	-15	19.9	—
Riverview		42.1	149	e 7 55	-17	14 5	-31	e 19.6	30.1
Sydney		42.1	149	9 27	+75	17 9	+153	26.2	27.0
Melbourne		42.5	158	e 8 9	- 6	e 14 9	-33	i 26.8	29.6
Colombo		46.4	279	—	—	16 57	+84	28.4	29.0
Kodaikanal		49.2	283	12 33	?PR <sub>2</sub>	—	—	31.8	39.8
Hyderabad		49.6	294	8 59	- 5	15 59	-15	23.6	31.6
Irkutsk		54.4	345	9 35	0	17 12	- 2	26.0	32.0
Bombay		55.1	294	9 56	+16	17 11	-11	27.5	36.2
Simla	E.	55.1	310	e 9 51	+11	17 33	+11	32.6	36.6
	N.	55.1	310	e 9 51	+11	17 21	- 1	25.0	—
Christchurch		60.9	143	—	—	—	—	29.4	47.2
Wellington		61.1	140	—	—	e 18 57?	+20	—	—
Apia		63.4	105	10 51	+17	19 41	+35	33.0	36.0
Honolulu	E.	76.6	69	e 12 4	+ 5	e 21 45	+ 1	35.4	39.2
Baku		78.8	312	112 10	- 2	122 8	- 2	37.4	47.6
Platigorsk		84.3	316	112 38	- 6	122 56	-15	—	48.0
Kucino		88.1	327	12 58	- 8	23 39	-14	42.6	53.5
Leningrad		92.0	331	e 13 17	-10	124 22	-13	43.4	56.2
Pulkovo		92.1	331	13 14	-14	24 14	-22	44.0	56.2
Helwan		93.6	300	e 13 25	-11	23 56	[+ 6]	—	58.2
Lemberg		96.9	321	e 14 33	+39	(24 21)	[+14]	—	24.4
Upsala		98.2	332	e 16 57?	?	e 24 18	[+ 4]	e 46.0	61.3
Athens		99.0	310	e 13 52	-13	124 29	[+10]	42.0	60.4

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Budapest	100.6	320	e 23 57?	?	—	—	e 51.0	59.5
Vienna	Z. 102.2	321	e 14 6	-15	i 19 12	?PR <sub>1</sub>	—	65.0
Victoria	E. 102.8	40	18 25	?PR <sub>1</sub>	27 45	+83	43.2	57.8
	N. 102.8	40	18 20	?PR <sub>1</sub>	26 0	-22	—	43.1
Zagreb	103.1	318	e 14 11	-15	e 24 45	[+ 7]	55.0	—
Graz	103.1	320	e 14 57	+31	i 24 42	[+ 4]	36.0	63.3
Bergen	103.7	335	—	—	i 24 57?	[+16]	—	—
Cheb	104.1	323	e 18 38	?PR <sub>1</sub>	e 24 50	[+ 7]	e 49.0	65.0
Hamburg	104.3	327	e 14 57?	+26	i 24 53	[+ 9]	e 53.0	64.0
Pompeii	105.4	314	e 18 57?	?PR <sub>1</sub>	e 24 57?	[+ 8]	—	—
Venice	105.6	319	15 15	+38	24 51	[+ 1]	—	—
Naples	105.6	314	e 18 51	?PR <sub>1</sub>	e 24 1	[-49]	—	—
Rocca di Papa	106.5	315	e 17 4	?	e 24 57	[+ 3]	e 50.4	—
Hohenheim	106.5	322	e 18 17	[+ 7]	i 24 59	[+ 5]	e 34.2	65.5
Ravensburg	E. 106.6	321	e 18 57	?PR <sub>1</sub>	i 24 59	[+ 4]	e 33.8	58.6
Florence	106.9	315	e 14 7	-37	25 52	-68	49.0	59.8
Zurich	107.4	320	—	—	e 24 53	[- 6]	—	—
De Bilt	107.6	326	14 44	- 2	e 25 7	[+ 8]	e 55.0	67.0
Uccle	108.6	325	—	—	e 25 12	[+ 8]	e 45.0	68.0
Dyce	108.6	334	e 19 15	?PR <sub>1</sub>	e 25 7	[+ 3]	41.0	61.8
Moncalieri	108.8	319	14 28	-24	e 25 7	[+ 3]	50.8	68.2
Edinburgh	109.9	332	e 13 57?	-60	—	[- 4]	49.0	60.4
Paris	110.5	323	e 14 58	- 2	e 26 47	-46	38.0	68.0
Stonyhurst	110.6	330	—	—	—	—	—	67.0
Kew	110.8	328	e 14 43	-18	—	—	43.0	71.0
Bidston	111.2	331	e 19 35	?PR <sub>1</sub>	26 9	[+54]	52.5	65.4
Strasbourg	112.6	321	e 14 39	-30	e 26 5	[+45]	44.0	66.0
Barcelona	114.0	316	—	—	e 19 51	?PR <sub>1</sub>	e 54.0	82.3
Algiers	115.1	311	e 15 10	-11	25 32	[+ 3]	e 46.0	73.0
Tortosa	N. 115.3	316	19 38	?PR <sub>1</sub>	—	—	—	84.4
Alicante	117.2	314	—	—	19 52	?PR <sub>1</sub>	58.6	72.4
Toledo	118.8	317	e 20 17	?PR <sub>1</sub>	e 25 33	[- 9]	—	51.4
Almeria	119.1	314	e 16 5	+27	—	—	64.5	71.9
Granada	119.8	314	1 18 15	[-37]	i 20 39	?PR <sub>1</sub>	64.6	75.6
Malaga	120.6	314	e 19 19	[+25]	e 20 48	?PR <sub>1</sub>	—	—
Rio Tinto	121.7	316	18 57?	[ 0]	—	—	—	30.0
San Fernando	122.0	315	—	—	—	—	—	75.0
Lisbon	122.9	318	—	—	e 32 22	?	—	—
Chicago	E. 127.6	30	—	—	—	—	e 54.0	69.6
Ann Arbor	129.1	27	—	—	—	—	e 57.0	78.0
Ottawa	129.8	19	e 21 32	?PR <sub>1</sub>	e 33 13	?	e 56.4	75.0
Toronto	E. 129.9	23	e 22 8	?PR <sub>1</sub>	e 30 9	+ 9	57.0	78.6
Ithaca	132.1	21	e 22 57	?PR <sub>1</sub>	—	—	e 59.0	—
Fordham	134.4	20	1 18 27	[-62]	—	—	57.6	83.4
La Plata	145.9	175	1 19 48	[- 2]	—	—	64.0	—
Sucre	158.8	149	1 20 17	[+10]	34 25	?	84.0	91.6
La Paz	159.1	139	1 20 14	[+ 7]	34 19	?	79.8	91.4

Additional readings and notes: Amboina readings have been increased by 2m. Phu-Lien MN = +12.6m. Osaka MN = +28.7m. Adelaide SR<sub>1</sub> = +15m.24s. L = SR<sub>2</sub> exactly, MN = +27.0m. Mizusawa PN = +7m.54s. LN = +20.0m. Riverview eSR = +17m.17s. +17m.33s., and +18m.20s. = SR<sub>1</sub> - 6s., MN = +30.0m., MZ = +33.4m. Sydney SR<sub>2</sub> = +23m.9s. Are P and S really PR<sub>1</sub> and SR<sub>1</sub>? Melbourne i = 10h.34m.12s., e = 10h.49m.42s. Colombo P = 10h.48m.0s., S = +11m.37s. and the value entered. Irkutsk MZ = +36.5m., MN = +37.8m. Christchurch PR<sub>1</sub>? = +7m.27s., SR<sub>2</sub>? = +22m.21s. Ekaterinburg ( $\Delta = 76^\circ 0'$ ) gives S - P = 9m.38s. Honolulu eE = +13m.10s. and 22m.3s. = [S] + 3s., PR<sub>2</sub>E = +16m.47s., eN = +21m.39s., SN = +22m.0s., iPSE = +22m.46s., SR<sub>2</sub>E = +26m.57s., MN = +32.4m.; T<sub>0</sub> = 10h.51m.9s. and 10h.51m.13s. Baku MN = +48.3m., MZ = +52.0m. Kuctno P = +13m.13s., PR<sub>1</sub> = +16m.12s., S<sub>1</sub>P<sub>1</sub>S = +23m.23s. = [S] + 8s., PS = +24m.19s., SR<sub>2</sub> = +30m.17s., MN = +56.5m. Leningrad iPR<sub>1</sub> = +17m.18s., ePR<sub>2</sub> = +19m.34s., i = +23m.50s. = [S] + 10s., SR<sub>1</sub> = +30m.27s., MN = +49.2m., MZ = +56.1m. Pulkovo iP = +13m.28s., PR<sub>1</sub> = +17m.8s., PR<sub>2</sub> = +21m.19s., S<sub>1</sub>P<sub>1</sub>S = +23m.47s. = [S] + 7s., SR<sub>1</sub> = +31m.33s., SR<sub>2</sub> = +35m.9s., MZ = +56.1m. Upsala MN = +56.7m. Athens eSR<sub>1</sub> = +30m.47s., MN = +48.1m. Zagreb PR<sub>1</sub> = +18m.51s., ePS = +25m.56s. Vienna PR<sub>1</sub>Z? = +18m.20s. Graz MN = +63.7m. Hamburg e = +18m.49s. = PR<sub>1</sub> + 7s., MN = +60.0m. Rocca di Papa ePZ = +17m.47s. = [P] - 13s., ePEN = +18m.0s. = [P] - 10s., ePE = +18m.4s. Ravensburg eE = 10h.48m.32s. De Bilt ePR<sub>1</sub> = +18m.59s., MN = +66.6m. Uccle ePR<sub>1</sub> = +19m.9s., i = +27m.52s. = S + 37s. Dyce e = +26m.32s. = S - 43s. Moncalieri L = +43.0m., MN = +68.8m. Paris PR<sub>1</sub> = +19m.35s., iS = +26m.59s., MN = +63.0m.

Continued on next page.

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Kew  $PR_1 = +20m.30s.$ ,  $MN = +70.3m.$  Bidston  $S = +28m.51s.$  Strasbourg  $PR_1 = +18m.55s.$  = [P] + 25s., ePS = +27m.23s. = S + 23s. Barcelona  $SR_1 = +28m.24s.$  = S + 22s. Tortosa  $PE = +19m.41s.$  =  $PR_1 - 11s.$   
 Alicante  $MN = +64.2m.$  Toledo eNE = +29m.43s. MNW = +59.3m.  
 Malaga readings are given as eN and eE respectively. Ottawa i = +22m.49s., eSR<sub>1</sub> = +40m.21s., eN = +45m.57s., MN = +74.0m. Toronto MN = +73.6m. Fordham i = +22m.29s. =  $PR_1 - 30s.$ , e = +23m.4s.  
 Sucre  $PR_1 = +25m.3s.$ ,  $PR_2 = +30m.15s.$ ,  $SR_1 = +42m.57s.$   $SR_2 = +48m.3s.$

July 10d. 12h. 40m. 4s. Epicentre 1°0N. 126°0E. (as at 10h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.1	155	(11 15)	-4	(2 12)	-8	—	—
Manila	14.5	340	e 4 3	+30	—	—	—	—
Batavia	20.4	249	4 46	0	18 32	0	—	—
Adelaide	37.8	164	—	—	e 15 6	?	e 21.3?	27.4
Riverview	42.1	149	—	—	—	—	e 21.0	28.4
Melbourne	42.5	158	—	—	—	—	—	29.9
Irkutsk	54.4	345	9 41	+6	17 19	+5	23.9	—
Ekaterinburg	76.0	330	29 56?	?L	—	—	(29.9)	—
Piatigorsk	84.3	316	i 12 36	-8	—	—	—	—
Leningrad	92.0	331	—	—	e 24 38	+3	44.9	61.4
Pulkovo	92.1	331	—	—	1 24 20	-16	45.9	60.5
De Bilt	E. 107.6	326	—	—	—	—	e 67.9	69.3
Paris	110.5	323	—	—	—	—	e 67.9	—
Kew	110.8	328	(e 18 56?)	?PR <sub>1</sub>	—	—	e 18.9	—
La Plata	145.9	175	i 19 46	[-4]	—	—	—	—

Additional readings and notes: Amboina readings have been increased by 1m. Riverview MN = +23.0m. Ekaterinburg gives S-P = 9m.38s. Leningrad MZ = +60.6m. Pulkovo MN = +59.8m., MZ = +60.1m. De Bilt eLN = +64.9m.

July 10d. 23h. 1m. 32s. Epicentre 36°5N. 139°5E. (as on 1925 Jan. 9d.).

A = -611, B = +522, C = +595; D = +649, E = +760;  
 G = -452, H = +386, K = -804.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Tokyo	0.9	166	0 8	-6	—	—	—	—
Nagoya	2.5	238	0 40	+1	—	—	1.5	2.0
Mizusawa	E. 2.9	26	0 42	-3	1 17	-3	—	—
	N. 2.9	26	0 44	-1	1 19	-1	—	—
Osaka	3.8	242	1 15	+16	—	—	2.4	3.1
Toyooka	3.9	265	e 1 29	+28	—	—	2.6	2.8
Kobe	4.0	244	1 2	0	—	—	2.2	3.8
Sumoto	4.3	242	1 6	-1	—	—	2.4	2.7
Hukuoka	N. 8.0	251	e 3 13	?S	(e 3 13)	-24	4.6	4.8
Manila	27.5	222	e 6 57	+54	—	—	—	—
Irkutsk	29.2	314	e 6 13	-7	e 11 2	-18	14.5	19.4
Ekaterinburg	54.3	320	28 28	?L	—	—	(28.5)	—
Kucino	66.4	323	—	—	e 18 29	-73	33.3	37.5
Baku	67.1	304	e 10 56	-3	e 19 55	+4	32.5	36.5
Leningrad	67.5	330	e 10 59	-2	e 19 49	-7	34.0	—
Pulkovo	67.6	330	e 11 0	-2	e 19 50	-7	36.5	47.8
De Bilt	82.8	334	—	—	e 23 2	+7	e 44.5	—
Uccle	84.2	334	—	—	—	—	e 43.5	—
Strasbourg	84.8	330	—	—	—	—	e 38.5	—
Kew	85.2	337	—	—	—	—	e 43.5	—
Paris	86.5	334	—	—	—	—	e 52.5	—
Florence	86.9	325	—	—	—	—	e 44.5	50.5
Granada	98.7	331	—	—	e 50 28?	?	53.9	59.1
San Fernando	100.4	333	—	—	—	—	—	57.5
La Paz	148.4	58	i 19 40	[-13]	—	—	—	—

Additional readings: Nagoya MN = +1.9m. Osaka MN = +3.0m. Kobe MN = +2.6m. Sumoto MZ = +3.1m. Ekaterinburg S-P = +7m.34s. Kucino e = +19m.55s. Baku MN = +37.0m., MZ = +37.9m.

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July 10d. Readings also at 0h. (Melbourne), 2h. (near Amboina and near Manila), 3h. (Toronto, Ottawa, and Victoria), 4h. (Pulkovo, Honolulu, and near Apia (2)), 5h. (Ekaterinburg and Ottawa), 6h. (near Tacubaya), 9h. (near Nagoya, Osaka, Kobe, and Sumoto), 11h. (Apia and near Sumoto).

July 11d. Readings at 1h. (Tokyo and near Amboina), 2h. (Granada, Ekaterinburg, and Tokyo), 4h. (Budapest), 7h. (Tokyo), 9h. (Tokyo and near Mizusawa), 10h. (Phu-Lien and Irkutsk), 11h. (Ekaterinburg, Leningrad, Pulkovo, and Chicago), 13h. (Ekaterinburg), 14h. (near Amboina), 15h. (Pulkovo, Leningrad, Ekaterinburg, Harvard, Toronto, Ottawa, Ann Arbor, Ithaca, Tucson, Sitka, Spokane, and Victoria), 18h. (La Paz), 19h. (Tokyo), 21h. (Piatigorsk).

July 12d. 14h. 32m. 8s. (I) } Epicentre 1°·0N. 126°·0E. (as on 1926 July 10d.).  
16h. 51m. 30s. (II) }

$$A = -\cdot588, B = +\cdot809, C = +\cdot017; \quad D = +\cdot809, E = +\cdot588;$$

$$G = -\cdot010, H = +\cdot014, K = -\cdot1\cdot000.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Manila	14·5	340	e 3 52?	+19	—	—	—	—
II	14·5	340	e 3 30?	-3	—	—	—	—
I Batavia	20·4	249	e 5 28	+42	—	—	—	—
II	20·4	249	e 5 12	+26	—	—	—	—
II Melbourne	42·5	158	—	—	—	—	e 18·2	32·2
II Irkutsk	54·4	345	e 9 39	+ 4	e 17 15	+ 1	28·9	—
II	54·4	345	e 9 37	+ 2	e 17 15	+ 1	28·5	—
I Ekaterinburg	76·0	330	11 54	- 1	21 33	- 4	33·9	—
II	76·0	330	11 54	- 1	21 32	- 5	32·5	41·7
II Honolulu	E. 76·6	69	e 16 50	†PR <sub>2</sub>	21 12	-32	38·0	40·0
II Baku	78·8	312	e 12 8	- 4	e 22 9	- 1	39·5	—
II Leningrad	92·0	331	—	—	—	—	e 54·0	—
I Pulkovo	92·1	331	—	—	—	—	e 54·4	—
II	92·1	331	—	—	—	—	e 55·0	59·3
I De Bilt	107·6	326	—	—	—	—	e 67·9	—
II	107·6	326	—	—	—	—	e 56·5	—
I Uccle	108·6	325	—	—	—	—	e 59·9	—
II	108·6	325	—	—	—	—	e 56·5	—
I Ottawa	129·8	19	—	—	—	—	e 71·9	—
II	129·8	19	—	—	e 36 35	†SR <sub>1</sub>	e 71·5	—
II Toronto	N. 129·9	23	—	—	e 37 45	†SR <sub>1</sub>	74·5	—

Additional readings : Melbourne II L = SR<sub>1</sub> - 24s. Ekaterinburg II MN = +45·0m. De Bilt I eLN = +65·9m. Ottawa II e = +51m.6s.

July 12d. 22h. 12m. 30s. Epicentre 15°·5N. 92°·5E. (as on 1926 May 29d.).

$$A = -\cdot042, B = +\cdot963, C = +\cdot267; \quad D = +\cdot999, E = +\cdot044;$$

$$G = -\cdot015, H = +\cdot267, K = -\cdot964.$$

No importance is attached to this solution, which is introduced simply to illustrate the difficulties which sometimes occur in suggesting even an approximation.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	38·0	11	2 36	?	—	—	19·5	—
Baku	44·5	313	(8 47)	+17	(15 37)	+28	(22·5)	(34·5)
Ekaterinburg	47·8	336	e 16 51	†S	e 19 54	+243	25·5	32·8
Kucino	57·7	326	e 14 51	+294	e 18 58	+63	37·3	38·0
Pulkovo	62·8	330	10 22	- 9	18 42	-16	30·5	35·8
Leningrad	62·9	330	10 26	- 5	—	—	31·1	39·5
Florence	73·1	311	—	—	—	—	e 42·5	55·5
Strasbourg	75·1	318	—	—	—	—	40·5	—
De Bilt	76·3	320	—	—	—	—	38·5	43·5
Uccle	76·9	320	—	—	—	—	e 36·5	—
Paris	78·4	319	—	—	—	—	e49·5	—
Kew	79·7	321	—	—	—	—	e 42·5	—
Granada	85·4	308	—	—	—	—	—	52·3
San Fernando	87·7	308	—	—	—	—	—	47·6

For Notes see next page.

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NOTES TO JULY 12d. 22h. 12m. 30s.

Additional readings and notes: Baku gives also MN = +32.7m., MZ = +35.9m.; all readings have been decreased by 13min. Ekaterinburg MN = +33.2m.; if we decrease the readings by 1m., then e = +15m.51s. = S exactly, and e = +18m.54s. = SR<sub>1</sub>-30s. Kucino MN = +38.1m. Is Pulkovo MN = +35.6m., MZ = +39.5m. ? Leningrad MZ = +40.3m., MN = +40.5m. De Blit eLN = +41.5m.

July 12d. Readings also at 0h. (Irkutsk and Ekaterinburg), 1h. (Tokyo and Ekaterinburg (2)), 2h. (Moncalieri and near Amboina), 3h. (near Sumoto), 5h. (Tokyo), 9h. (Manila and near Amboina), 10h. (Nagoya, Tokyo, and near Amboina), 11h. (Ekaterinburg), 12h. (Strasbourg), 14h. (Tokyo (2) and near Amboina), 16h. (Batavia and near Sumoto), 17h. (near Amboina), 19h. (Ekaterinburg, Toronto, Ottawa, Taihoku, and near Apia), 20h. (Taihoku, Tokyo, and La Paz), 21h. (Tokyo), 22h. (Ottawa, Toronto, and Victoria), 23h. (Honolulu and Adelaide).

July 13d. 7h. 27m. 35s. Epicentre 0°0 125°0E. (as on 1925 Nov. 19d.).

A = -.574, B = +.819, C = .000; D = +.819, E = +.574;  
G = .000, H = .000, K = -1.000.

Epicentre apparently *not* the same as that on July 12 and July 10.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	4.8	139	1 12	- 2	12 21	+10	—	—
Manila	15.1	345	13 58	+18	(16 44)	+10	16.7	—
Malabar	18.8	247	14 27	0	—	—	—	—
Batavia	19.2	251	14 24	- 7	—	—	—	—
Hong Kong	24.7	335	5 34	- 1	—	—	—	10.4
Irkutsk	55.1	345	e 9 43	+ 3	e 18 16	+54	30.4	—
Baku	78.8	313	e 12 47	+35	e 23 8	+58	e 31.4	—
Pulkovo	92.4	330	—	—	e 18 4	?PR <sub>1</sub>	e 45.9	—
De Blit	107.8	326	—	—	—	—	e 55.4	—
La Paz	159.0	142	20 18	[+11]	—	—	—	—

Additional readings: Batavia e = +4m.38s. De Blit eLN = +56.4m.

July 13d. 15h. 17m. 36s. Epicentre 38°5N. 30°5W. (as on July 9d.).

A = +.674, B = -.397, C = +.623; D = -.508, E = -.862;  
G = +.536, H = -.316, K = -.783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Azores	3.9	99	1 24	+23	—	—	—	3.4
San Fernando	19.3	88	—	—	—	—	—	10.4
Toledo N.E.	20.5	78	—	—	e 8 8	-26	—	9.9
Granada	21.2	85	15 6	+11	—	—	9.0	11.5
Tortosa N.	23.9	75	—	—	—	—	e 10.4	12.5
Edinburgh	25.1	37	—	—	—	—	e 13.9	—
Paris	25.8	55	—	—	e 10 27	+ 9	12.4	—
Uccle	27.3	52	—	—	e 10 42	- 4	e 12.4	13.9
De Blit	28.1	49	—	—	—	—	e 12.4	—
Moncalieri	28.9	65	—	—	3 2	?	13.0	—
Strasbourg	29.1	57	—	—	—	—	12.4	15.4
Hamburg	31.3	48	—	—	—	—	e 15.4	—
Florence	31.5	67	—	—	—	—	—	15.4
Ottawa	33.9	297	—	—	—	—	e 17.4	—
Pulkovo	43.1	40	—	—	—	—	e 22.4	25.4
Ekaterinburg	59.2	40	—	—	e 18 35	+22	48.9	51.8
Baku	59.8	60	e 9 24?	-47	—	—	—	—

Additional readings: Toledo MNW = +10.8m. Moncalieri eP<sub>1</sub> = 15h. 9m.51s.

July 13d. Readings also at 0h. (Ottawa, Toronto, Victoria, La Paz, Granada, De Blit, Uccle, Pulkovo, Leningrad, Baku, and Ekaterinburg), 2h. (Ekaterinburg, Irkutsk, and Baku), 4h. (Tokyo and near Mostar), 5h. (La Paz), 12h. and 14h. (Leningrad), 15h. (Ekaterinburg), 16h. (Zikawei), 18h. (Apia), 19h. (Nagoya, Tokyo, and near Irkutsk), 22h. (Chicago), 23h. (La Paz and Tokyo).

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July 14d. 1h. 38m. 40s. Epicentre 2°5S. 71°0W. (as on 1921 Dec. 18d.).

A = +.325, B = -.945, C = -.044; D = -.946, E = -.326;  
G = -.014, H = +.041, K = -.999.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	14.3	169	13 30	0	16 13	- 2	17.1	7.8
Sucre	17.4	161	4 11	+ 1	17 20	- 7	9.2	10.2
Ottawa	48.1	357	—	—	e 15 56	+ 1	21.3	—
Granada	73.8	51	i 12 1	+20	23 6	+114	e 45.3	51.9
Almeria	74.7	51	e 11 47	0	e 22 28	+66	—	54.6
Ekaterinburg	113.6	25	—	—	e 49 54	?	56.3	—

Additional readings: La Paz MNZ = +8.6m.; T<sub>g</sub> = 1h.38m.43s. Granada  
PS = +23m.57s.

July 14d. 6h. 40m. 14s. Epicentre 35°7N. 134°8E. (as on 1925 Dec. 22d.).

A = -.572, B = +.576, C = +.584; D = +.710, E = +.705;  
G = -.411, H = +.414, K = -.812.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0.2	175	0 1	- 3	(0 3)	- 3	—	0.1
Kobe	1.1	163	0 16	- 1	(0 30)	- 1	0.5	0.5
Osaka	1.2	154	0 18	0	(0 33)	0	0.6	1.6
Sumoto	1.4	177	0 28	+ 7	(0 46)	+ 7	0.8	0.8
Nagoya	1.8	107	0 24	- 4	(0 46)	- 5	0.8	0.9

Additional readings: Kobe MN = +0.7m. Osaka MN = +2.1m.

July 14d. 16h. 46m. 18s. (I) } Epicentre 0°5N. 130°0E. (as on 1922 June 17d.).  
16h. 58m. 54s. (II)

A = -.643, B = +.766, C = +.009; D = +.766, E = +.643;  
G = -.006, H = +.007, K = -1.000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Amboina	4.6	204	2 11	+60	3 22	+76	—	—
II	4.6	204	12 26	+75	3 44	+98	—	—
I Manila	16.7	328	e 3 51	-10	(16 27)	-44	16.4	—
II	16.7	328	e 4 7	+ 6	(16 41)	-30	16.7	—
I Malabar	23.7	250	5 31	+ 6	9 40	+ 2	—	—
II	23.7	250	5 34	+ 9	e 9 34	- 4	—	—
I Batavia	24.1	253	15 31	+ 2	19 45	- 1	—	—
II	24.1	253	15 33	+ 4	19 37	- 9	—	—
I Hong Kong	26.7	326	5 37	-18	(9 45)	-50	9.8	9.9
II	26.7	326	—	—	—	—	—	10.0
I Osaka	34.5	9	6 54	-15	(12 47)	- 1	12.8	22.9
I Riverview	39.7	152	—	—	—	—	e 23.8	28.3
I Melbourne	40.7	162	(e 7 6)	-55	e 17 0	†SR <sub>1</sub>	e 27.3	29.2
I Honolulu	72.5	69	—	—	—	—	36.2	49.0
I Ekaterinburg	78.4	330	12 6	- 3	1 21 38	-27	33.2	—
II	78.4	330	12 8	- 1	21 43	-22	—	—
I Baku	82.2	311	e 12 26	- 5	22 25	-23	39.7	—
II	82.2	311	e 12 30	- 1	22 27	-21	40.1	—
I Pulkovo	94.4	330	e 17 54	†PR <sub>1</sub>	1 24 26	-34	52.7	65.0
I Leningrad	94.4	330	—	—	e 17 58	†PR <sub>1</sub>	51.2	—
I De Bilt	110.1	328	—	—	—	—	e 55.7	—
I Strasbourg	110.3	323	—	—	—	—	63.7	—
I Uccle	111.2	327	—	—	—	—	e 55.7	—
I Moncalieri	111.8	320	e 14 45	-21	29 20	+96	48.0	—
I Edinburgh	112.1	333	—	—	—	—	e 66.7	—
II Kew	113.3	329	—	—	—	—	60.1	—
I Granada	123.0	314	e 37 49	†SR <sub>1</sub>	—	—	69.2	74.2
I Toronto	128.6	26	—	—	—	—	e 62.2	—
I Ottawa	128.8	21	—	—	—	—	e 53.7	—

Additional readings: Batavia I IE = +5m.34s., II IZ = +5m.35s. Riverview  
I MN = +40.8m. Melbourne I e(P) has been increased by 10m. Ekaterin-  
burg I IPR<sub>1</sub> = +15m.0s., II ePR<sub>2</sub> = +15m.5s. Granada I = +50m.14s.

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July 14d. 19h. 30m. 12s. Epicentre 37°·2N. 139°·0E. (as on 1922 May 28d.).

A = -·601, B = +·522, C = +·605.

		$\Delta$	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	2·5	0 36	- 3	1 8	- 1	—	—
Nagoya		2·7	0 49	+ 7	—	—	1·4	1·4
Osaka		3·9	0 57	- 4	(1 48)	+ 1	1·8	2·5

Additional readings: Mizusawa SN = +1m.11s. Osaka MN = +2·8m.

July 14d. 22h. 22m. 20s. Epicentre 66°·0N. 165°·0W.

A = -·393, B = -·105, C = +·914; D = -·259, E = +·966;  
G = -·882, H = -·236, K = -·407.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Sitka		16·5	109	—	—	7 15	+ 8	7·9	11·2
Victoria	N.	27·8	109	5 40	-26	10 20	-35	13·8	15·0
Spokane		30·7	103	—	—	116 33	?L	117·0	18·0
Irkutsk		44·0	299	e 8 24	- 2	14 54	- 8	24·7	26·1
Honolulu	E.	44·9	171	—	—	e 18 52	?SR <sub>1</sub>	e 20·5	21·3
Tucson	N.	46·5	110	—	—	—	—	e 23·7	24·8
Chicago	E.	47·6	82	—	—	e 15 50	+ 1	e 22·9	24·7
Ann Arbor		48·7	78	e 22 4	?	124 40	?L	e 25·4	25·7
Ottawa		49·2	70	e 10 46	?PR <sub>1</sub>	e 19 2	?SR <sub>1</sub>	e 22·7	26·1
Toronto	E.	49·2	75	—	—	e 19 10	?SR <sub>1</sub>	1 24·7	25·4
St. Louis	N.	49·2	87	—	—	e 15 54	-15	e 25·0	—
Ithaca		51·4	72	—	—	—	—	e 25·7	—
Ekaterinburg		52·5	331	9 23	0	116 51	+ 1	24·7	32·2
Harvard		53·5	68	—	—	—	—	24·8	28·6
Leningrad		53·5	351	e 9 28	- 2	e 16 57	- 6	24·3	38·5
Pulkovo		53·7	351	e 9 27	- 4	17 0	- 5	27·2	33·8
Fordham		53·7	71	e 16 44	?S	(e 16 44)	-21	25·5	27·7
Upsala		54·2	358	—	—	—	—	35·7	—
Cheltenham	E.	54·4	75	—	—	—	—	27·4	32·9
Zi-ka-wel		55·1	271	—	—	e 18 7	+45	—	34·1
Loyola	N.	56·8	90	e 23 7	?	127 49	?	e 29·4	31·9
Kucino		57·0	346	—	—	e 17 48	+ 2	26·9	30·3
Edinburgh		57·4	13	—	—	e 17 40?	-11	—	—
Hamburg		60·4	4	—	—	—	—	e 38·7	—
De Bilt	E.	61·7	7	—	—	18 42	- 2	e 28·7	30·6
Kew		61·9	11	—	—	e 18 40?	- 7	32·7	—
Uccle		62·9	8	—	—	e 18 52	- 8	e 26·7	—
Strasbourg		65·3	6	e 10 40?	- 7	e 18 40?	-49	28·7	—
Hong Kong		66·0	272	—	—	—	—	—	38·7
Moncalleri		68·9	6	e 14 50	+220	23 11	+178	39·8	—
Baku		70·3	333	e 11 24	+ 5	e 20 36	+ 6	33·7	37·4
Rocca di Papa		72·2	2	e 1 39	+ 8	e 20 36	-16	—	22·7
Tortosa	N.	72·6	12	—	—	—	—	e 39·7	46·8
Toledo		73·2	16	—	—	—	—	e 38·6	44·7
Granada		75·8	16	111 55	+ 1	—	—	39·7	43·2
Almeria		76·3	15	—	—	—	—	e 40·1	59·2
San Fernando	E.	76·3	19	—	—	—	—	—	48·2
Apia		80·0	187	—	—	—	—	—	88·1
Hyderabad		84·3	301	—	—	—	—	—	49·0

Additional readings: Sitka PR<sub>1</sub>E = +4m.43s. Victoria SE = +10m.40s.;  
T<sub>0</sub> = 22h. 22m. 7s. Spokane eE = +14m.32s., +15m.5s., and +15m.24s.  
Irkutsk SR<sub>1</sub> = +18m.28s., MZ = +28·4m. Honolulu eLN = +21·7m.  
Chicago eE = +14m.51s. and +17m.2s. S<sub>0</sub>SE† = +18m.4s. and +18m.25s.,  
SR<sub>1</sub>E = +19m.27s. Ann Arbor LN = +25·5m. Ottawa eN =  
+15m.22s. = S - 47s., eE = +15m.44s. = S - 25s., MN = +25·9m. St. Louis  
iN = +16m.13s. and +16m.23s., and several other e readings. Ekaterinburg  
MN = +39·8m. Leningrad MZ = +33·4m., MN = +33·6m. Pulkovo  
MZ = +32·4m. Fordham eN = +20m.31s., eE = +20m.37s., eSE =  
+21m.41s., i = +27m.14s., MN = +31·4m. Zi-ka-wel e = +21m.0s. =  
SR<sub>1</sub> - 42s. Kucino MN = +40·2m. De Bilt eLN = +32·7m., MN =  
+43·1m. Baku MN = +46·4m., MZ = +49·5m. Rocca di Papa ePR =  
+11m.42s. Toledo MNW = +44·6m. Granada MZ = +44·9m.  
Almeria MN = +44·0m. San Fernando MN = +45·2m.

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July 14d. Readings also at 0h. (Chicago, Ekaterinburg, and Manila), 1h. (Ekaterinburg), 3h. (Tokyo and near Osaka), 5h. (Nagoya), 7h. (Moncalieri and near Hukuoka), 8h. (Strasbourg, Zurich, and near Zagreb), 10h. (Ekaterinburg, Nagoya, and near Mizusawa), 14h. (Taihoku), 19h. (Graz and Ekaterinburg), 20h. (Upsala), 23h. (Hamburg).

July 15d. 18h. 25m. 40s. Epicentre 35°·0N. 89°·0E.

A = +·014, B = +·819, C = +·574; D = +1·000, E = --·017;  
G = +·010, H = +·574, K = --·819.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla N.	10·7	252	—	—	—	—	6·5	—
Hyderabad	19·9	211	—	—	—	—	—	12·6
Irkutsk	20·4	28	4 48	+ 2	e 8 32	0	11·3	—
Phu-Lien	21·0	128	—	—	—	—	11·3	—
Bombay	21·6	226	—	—	—	—	e 11·3	—
Hong Kong	25·4	113	—	—	—	—	—	15·3
Zi-ka-wei	27·3	89	e 10 48	?S	(e 10 48)	+ 2	(e 16·1)	18·3
Ekaterinburg	29·0	328	1 6 14	- 4	e 11·16	- 1	14·3	—
Baku	31·2	292	—	—	e 11 54	0	—	—
Kucino	40·2	318	—	—	e 17 8	?SR <sub>1</sub>	22·2	—
Pulkovo	44·8	323	—	—	e 18 31	?SR <sub>1</sub>	23·8	26·7
Leningrad	44·8	323	—	—	—	—	24·8	29·3
Hamburg	56·4	317	—	—	—	—	e 30·3	—
Strasbourg	59·2	311	—	—	—	—	e 29·3	—
De Bilt	59·6	315	—	—	—	—	e 32·3	34·8
Uccle	60·5	314	—	—	—	—	e 30·3	—
Edinburgh	62·8	321	—	—	—	—	36·3	—
Kew	62·9	316	—	—	—	—	e 30·3	—
Granada	71·5	304	—	—	—	—	e 39·3	49·3

Additional readings: Simla eE = +6m.38s. Baku e = +13m.11s. =SR<sub>1</sub> -21s.  
Strasbourg L = +36·3m.

July 15d. 21h. 47m. 10s. Epicentre 23°·0N. 121°·7E. (as on 1921 July 18d.).

A = --·484, B = +·783, C = +·391; D = +·851, E = +·526;  
G = --·205, H = +·332, K = --·921.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·9	359	e 1 6	+37	—	—	1·6	1·7
Hong Kong	7·0	266	1 40	- 6	—	—	—	5·7
Zi-ka-wei	8·2	358	e 2 11	+ 7	3 52	+10	—	6·2
Manila	8·4	185	e 2 2	- 5	—	—	14·0	—
Irkutsk	32·2	341	e 6 37	-13	e 10 57	-74	16·8	21·2
Ekaterinburg	55·2	326	i 9 39	- 1	1 17 23	- 1	26·8	36·7
Baku	61·9	308	e 10 26	+ 2	e 18 54	+ 7	31·8	36·2
Kucino	67·7	324	—	—	e 20 4	+ 6	33·8	44·4
Leningrad	70·9	330	e 11 30	+ 8	—	—	35·8	—
Pulkovo	71·0	330	11 28	+ 5	20 39	+ 1	34·3	45·4
Upsala	77·0	331	—	—	—	—	40·8	—
Vienna Z.	82·6	320	1 12 39	- 5	—	—	—	—
Hamburg	83·6	326	—	—	—	—	e 43·8	45·8
De Bilt	86·8	326	—	—	—	—	e 45·8	49·0
Strasbourg	87·4	321	e 13 25	+24	—	—	47·8	57·4
Florence	87·8	319	—	—	—	—	—	48·8
Uccle	88·0	325	—	—	—	—	e 44·8	48·8
Edinburgh	88·4	331	—	—	—	—	45·8	56·8
Moncalieri	88·9	320	(e 13 17)	+ 7	(24 19)	+17	43·2	—
Kew	89·9	328	—	—	—	—	e 45·8	—
Paris	90·1	325	—	—	—	—	e 56·8	—
Spokane	91·7	35	—	—	—	—	140·1	—
Granada	100·8	320	—	—	—	—	e 56·7	61·8
San Fernando	102·9	320	—	—	—	—	—	61·8
Ottawa	109·8	12	—	—	—	—	e 61·8	—

Additional readings: Manila iP = +2m.24s. Irkutsk MZ = +21·1m.  
Ekaterinburg MN = +30·4m., MZ = +36·6m. Baku MN = +36·3m.,  
MZ = +40·1m. Kucino MN = +36·8m. Pulkovo MN = +39·6m., MZ =  
+45·3m. De Bilt MN = +49·5m. Moncalieri readings have been  
diminished by 9 min. Spokane gives 15 readings, beginning with i =  
+34m.47s. =SR<sub>2</sub> -24s., and ending with that given as L. Granada eL =  
+59·8m.

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July 15d. Readings also at 5h. (Tokyo), 7h. (Sucre), 16h. (Tokyo), 20h. (Strasbourg, Kew, near Granada, and Almeria), 22h. (near Berkeley).

July 16d. 2h. 4m. 30s. Epicentre 5°-5S. 147°-0E. (as on 1926 April 8d.).

A = -835, B = +542, C = -096; D = +545, E = +839;  
G = +080, H = -052, K = -995.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	18.8	275	14 17	-10	17 53	-5	15.5	—
Riverview	28.6	173	e 7 36	+82	e 12 48	+98	e 13.5	16.3
Sydney	28.6	173	7 32	+78	12 42	+92	15.1	16.6
Adelaide	30.4	194	6 30?	-2	i 11 11	-30	13.8	19.6
Melbourne	32.3	184	—	—	e 11 42	-31	i 17.0	20.4
Manila	32.7	310	e 7 23	+29	(i 13 10)	+51	i 13.2	—
Taihoku	E. 39.3	323	—	—	e 13 39	-17	—	—
Perth	39.3	225	9 24	+95	16 0	+124	21.0	25.5
Batavia	39.9	269	18 34	+40	—	—	—	—
Apia	41.4	103	8 24	+18	—	—	17.5	—
Osaka	41.6	347	8 9	+1	14 24	-5	22.9	27.2
Hong Kong	42.5	313	8 10	-5	—	—	—	22.2
Wellington	43.5	149	—	—	i 14 37	-18	e 19.5	—
Zi-ka-wei	44.1	330	e 8 25	-2	e 18 29	?SR <sub>1</sub>	23.0	27.4
Christchurch	44.2	153	e 15 12	?S	(e 15 12)	+7	23.2	33.1
Phu-Lien	47.6	306	e 8 51	0	i 12 30?	?	24.5	—
Honolulu	E. 60.2	61	—	—	e 18 38	+12	28.2	32.7
Irkutsk	68.2	334	—	—	20 16	+12	32.5	42.0
Bombay	76.9	291	—	—	e 21 52	+4	—	—
Ekaterinburg	92.6	327	e 13 16	-14	i 23 56	[+12]	35.5	53.6
Berkeley	E. 93.9	51	—	—	—	—	e 45.0	—
Victoria	E. 93.9	42	17 21	?PR <sub>1</sub>	24 7	[+16]	31.5	47.4
Baku	99.0	311	—	—	e 24 37	[+18]	49.5	58.1
Leningrad	107.9	333	e 14 20	-28	—	—	42.5	68.4
Pulkovo	108.0	333	e 14 19	-29	—	—	43.5	68.2
Upsala	113.3	335	—	—	—	—	e 57.5	—
Cape Town	117.5	227	—	—	—	—	—	64.9
Chicago	E. 119.6	44	—	—	25 54	[+10]	e 53.0	63.2
Vienna	120.2	325	e 20 31	?PR <sub>1</sub>	29 48	+57	—	75.5
Hamburg	120.6	331	—	—	—	—	e 60.5	69.5
Graz	121.3	324	—	—	—	—	e 62.5	75.8
Cheb	121.5	327	—	—	—	—	e 62.5	76.5
Ann Arbor	122.1	40	—	—	—	—	e 61.6	—
De Bilt	123.8	332	e 21 12	?PR <sub>1</sub>	—	—	e 58.5	76.5
Edinburgh	124.3	339	e 33 30	?	—	—	60.5	80.5
Toronto	E. 124.3	38	—	—	—	—	62.5	64.5
Strasbourg	124.8	327	e 20 30?	?PR <sub>1</sub>	—	—	60.5	80.5
Uccle	125.1	331	—	—	—	—	e 57.5	70.5
Zurich	N. 125.1	326	e 20 56	?PR <sub>1</sub>	—	—	—	—
Florence	125.5	320	—	—	—	—	—	63.5
Rocca di Papa	125.6	319	e 10 0	?	—	—	65.6	78.6
Stonyhurst	125.6	337	—	—	—	—	e 64.5	—
Ottawa	125.6	35	e 21 7	?PR <sub>1</sub>	e 31 14	?	e 52.5	66.5
Kew	126.7	335	e 21 17	?PR <sub>1</sub>	—	—	60.5	72.9
Oxford	126.8	335	—	—	—	—	e 60.5	80.5
Moncalieri	127.0	324	e 21 24	?PR <sub>1</sub>	31 47	?	64.0	74.9
Paris	127.3	331	e 21 26	?PR <sub>1</sub>	—	—	66.5	72.5
Tortosa	N. 133.7	325	—	—	23 4	?PR <sub>1</sub>	e 39.5	83.1
Toledo	136.9	327	—	—	—	—	e 56.4	81.4
Almeria	138.0	324	—	—	—	—	e 70.1	73.0
Granada	138.5	324	i 19 42	[+5]	i 23 14	?PR <sub>1</sub>	e 70.0	88.0
Sucre	139.8	128	20 19	[+40]	—	—	73.5	—
San Fernando	140.5	325	—	—	41 42	?SR <sub>1</sub>	—	92.0

Additional readings: Riverview MN = +16.4m., MZ = +18.7m. Melbourne e = +16m.12s., Perth PS = +15m.30s., SR<sub>1</sub> = +17m.54s., SR<sub>2</sub> = +18m.15s. All readings should apparently be decreased by 1m. Apia L = SR<sub>1</sub> + 14s. Osaka MN = +23.7m. Honolulu eN = +19m.30s., SR<sub>1</sub> = +25m.36s., eLN = +29.0m. Irkutsk MZ = +40.7m. Ekaterinburg ePS = +24m.45s. = S + 4s., eSR<sub>1</sub> = +29m.7s., eSR<sub>2</sub> = +33m.10s., MN = +47.9m., MZ = +57.9m. Victoria L = SR<sub>1</sub> + 9s. Baku MN = +56.0m., MZ = +70.1m. Leningrad PR<sub>1</sub> = +19m.19s., PPS = +28m.34s., MZ = +68.0m., MN = +68.2m. Pulkovo PR<sub>1</sub> = +18m.19s., e = +23m.55s. = +68.0m., MN = +68.2m. PPS = +28m.37s., SR<sub>1</sub> = +34m.30s., MN = +57.5m. Chicago PR<sub>1</sub> + 3s., PPS = +28m.37s., SR<sub>1</sub> = +34m.30s., MN = +57.5m.

Continued on next page.



PR<sub>1</sub>E = +20m.1s., PR<sub>2</sub>E = +23m.42s., S<sub>0</sub>P<sub>0</sub>P<sub>0</sub>SE = +26m.55s., P<sub>0</sub>P<sub>0</sub>P<sub>0</sub>PE = +23m.55s. = S + 7s., PSE = +29m.50s., PPSE = +31m.17s., PPPSE = +31m.55s., SR<sub>1</sub>E = +36m.36s., SR<sub>2</sub>E = +41m.10s. †, SR<sub>3</sub> = +44m.45s. Hamburg MZ = +71.5m., MN = +73.5m. De Bilt eZ = +23m.48s. = PR<sub>1</sub> - 27s., e = +31m.0s., MN = +68.1m., MZ = +76.9m. Toronto eN = +59m.30s. Strasbourg MN = +72.5m., MZ = +74.0m. Ottawa MN = +64.5m. Tortosa L = SR<sub>1</sub> - 7s. Toledo MNW = +70.8m. San Fernando MN = +88.0m.

July 16d. Readings also at 0h. (near Osaka, Kobe, Sumoto, and Toyooka), 4h. (Victoria), 6h. (Apia and Riverview), 7h. (Ottawa and Honolulu), 9h. (near Algiers), 14h. (near Sumoto), 15h. (Baku and near Sucre), 16h. (near Kobe and Sumoto), 17h. (La Plata), 19h. (Tokyo and Rio Tinto), 22h. (Stonyhurst).

July 17d. 19h. 14m. 12s. Epicentre 36°·0N. 84°·5E.

A = +·078, B = +·805, C = +·588; D = +·995, E = -·096;  
G = +·056, H = +·585, K = -·809.

		Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N.	7·8	233	—	—	—	—	e 4·8	—
Irkutsk		21·4	35	5 1	+ 3	e 8 53	0	10·8	—
Ekaterinburg		26·2	330	e 5 48	- 2	e 10 24	- 2	12·8	16·7
Baku		27·3	290	—	—	e 11 12	+26	e 16·9	—
Kucino		36·0	318	—	—	e 15 29	?SR <sub>1</sub>	20·1	—
Pulkovo		41·7	324	—	—	e 14 30	- 1	21·3	26·2
Leningrad		41·8	324	—	—	—	—	23·8	28·8
Upsala	N.	48·1	323	—	—	—	—	e 25·3	—
Hamburg		53·0	316	—	—	—	—	e28·6	—
Strasbourg		55·7	310	—	—	—	—	e 29·8	—
De Bilt		56·2	315	—	—	—	—	e 29·8	33·4
Uccle		57·1	314	—	—	—	—	e 28·8	—
Besançon		57·2	308	—	—	—	—	50·7	—
Paris		58·9	311	—	—	—	—	e 32·8	39·8
Edinburgh		59·6	320	—	—	—	—	e 33·8	—
Kew		59·6	314	—	—	—	—	e 31·8	—
Granada		67·8	301	—	—	e 21 48	+108	29·8	34·3

Additional readings: Simla eE = +5m.0s. Ekaterinburg MNZ = +17.7m.  
Pulkovo e = +17m.32s. = SR<sub>1</sub> + 10s., MN = +26.5m., MZ = +27.2m.  
Leningrad MN = +28.6m., MZ = +29.9m. Hamburg e = +25m.30s.

July 17d. Readings also at 2h. (Agana), 6h. (Ekaterinburg), 8h. (Pulkovo, Ekaterinburg, Ottawa, and Taihoku), 9h. (Pulkovo), 11h. (near Athens), 12h. (Pulkovo and near Phu-Lien), 14h. (San Juan), 15h. (Sucre, Honolulu, Toronto, Ottawa, and Ekaterinburg), 16h. (Leningrad, Pulkovo, Baku, De Bilt, and Uccle), 20h. (Baku, Paris, near Uccle, and Strasbourg.)

July 18d. Readings at 3h. (Sucre, La Plata, Apia, Pulkovo, Rocca di Papa, De Bilt, Uccle, Paris, Kew, Edinburgh, and Algiers), 4h. (Baku, Leningrad, and San Fernando), 6h. (Azores and near Tacubaya), 8h. (Ekaterinburg), 9h. (Batavia and near Malabar), 12h. (Toledo), 15h. (Zi-ka-wei and near Sumoto), 16h. (Ekaterinburg, Rocca di Papa, and near Taihoku), 17h. (near Athens), 19h. (De Bilt, Pulkovo, Leningrad, Ekaterinburg, Kucino, Baku, Irkutsk, Ottawa, Chicago, Honolulu, Victoria, Batavia, Manila, Adelaide, Melbourne, and Apia), 20h. (Edinburgh, Toronto, Strasbourg, Zurich, and near Laibach), 21h. (Leningrad).

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July 19d. 4h. 51m. 54s. Epicentre 43°·8N. 11°·2E. (as on 1926 March 28d.).

A = +·708, B = +·140, C = +·692; D = +·194, E = -·981;  
G = +·679, H = +·134, K = -·722.

Uncertain.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Venice	1·9	26	1 25	+56	2 25	+92
Laibach	3·3	46	e 1 5	+13	i 1 25	- 6
Zurich	4·0	332	e 1 6	+ 4	i 1 47	- 3
Strasbourg	5·3	334	—	—	e 2 6?	-19
Vienna	z. 5·7	37	e 2 6	+38	—	—

No additional readings.

July 19d. 9h. 55m. 50s. Epicentre 35°·7N. 134°·8E. (as on 1926 July 14d.).

A = -·572, B = +·576, C = +·584.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1·1	163	0 21	+ 4	(0 34)	+ 3	0·6	0·6
Osaka	1·2	154	0 19	+ 1	(0 37)	+ 4	0·6	1·0
Sumoto	1·4	177	0 18	- 3	(0 29)	-10	0·5	0·5
Nagoya	1·8	107	1 1	+33	—	—	1·4	1·6

No additional readings.

July 19d. Readings also at 3h. (Ekaterinburg), 5h. (Florence), 8h. (Ekaterinburg), 9h. (Malabar), 10h. (near Amboina), 13h. (Tokyo), 16h. (Strasbourg), 19h. (Tokyo), 21h. (Ekaterinburg, Toronto, Ottawa, Irkutsk, and Victoria), 22h. (Victoria and Sucre), 23h. (Irkutsk and Zurich).

July 20d. 13h. 59m. 26s. Epicentre 36°·1N. 137°·3E. (as on 1926 Mar. 15d.).

A = -·594, B = +·548, C = +·589; D = +·678, E = +·735;  
G = -·433, H = +·400, K = -·808.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1·0	196	0 21	+ 6	(0 27)	- 1	0·5	0·5
Toyouka	2·1	254	0 41	+ 8	(1 9)	+11	1·2	1·2
Osaka	2·1	218	0 32	- 1	(0 55)	- 3	0·9	2·6
Kobe	2·2	231	0 38	+ 4	(0 59)	- 1	1·0	1·2
Sumoto	2·6	228	0 40	- 1	0 53	-19	1·0	1·3

Additional readings: Toyouka MN = +1·1m. Osaka MN = +2·5m.  
Kobe MN = +1·0m. Sumoto MN = +1·2m.

July 20d. Readings also at 10h. (near Mizusawa), 11h. (Strasbourg and Zurich), 14h. (La Paz, Strasbourg, and Sucre), 17h. (La Paz and Sucre), 18h. (near Taihoku), 22h. and 23h. (Rio Tinto).

July 21d. 2h. 23m. 0s. Epicentre 14°·5N. 88°·7W. (as on 1926 May 26d.).

A = +·022, B = -·968, C = +·250; D = -·1·000, E = -·023;  
G = +·006, H = -·250, K = -·968.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	6·6	352	1 49?	+ 8	3 37?	+37	3·8	4·8
Taoubaya	11·2	298	2 44	- 3	5 6	+ 7	5·3	5·6
Toronto	30·2	13	—	—	—	—	19·0	—
Ottawa	32·8	18	—	—	e 12 30	+ 9	e 18·5	—
Uccle	80·7	40	—	—	—	—	—	51·0
De Bilt	80·9	39	—	—	—	—	e 44·0	—

De Bilt gives also eLN = +43·0m.

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July 21d. Readings also at 1h. (San Fernando), 2h. (Pulkovo, Leningrad, Baku, Ekaterinburg, Irkutsk, Granada, and Melbourne), 3h. (Toronto, Ottawa, and Victoria), 11h. (near Sumoto), 19h. (Tokyo), 21h. (near Athens), 23h. (near La Paz and Sucre).

July 22d. 22h. 54m. 10s. Epicentre 34°0S. 57°0E. (as on 1926 July 8d.).

A = +.452, B = +.695, C = -.559; D = +.839, E = -.545;  
G = -.305, H = -.469, K = -.829.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	31.7	262	15 35	†L	—	—	(15.6)	18.8
Colombo	46.3	32	15 20	†S	(15 20)	-12	23.1	24.8
Kodaikanal	48.3	26	12 56	†	—	—	—	—
Bombay	55.0	19	17 18	†S	(17 18)	-3	e 26.5	—
Hyderabad	55.4	25	17 13	†S	(17 13)	-13	23.7	28.2
Simla	67.9	19	—	—	—	—	e 31.5	—
Baku	74.7	355	e 11 54	+ 7	i 21 34	+12	36.8	41.0
Algiers	86.8	320	e 12 22	-36	e 23 42	+ 3	45.8	50.8
La Plata	88.0	229	—	—	—	—	17.0†	—
Vienna	89.8	335	13 8	- 7	—	—	—	—
Almeria	89.8	313	13 16	+ 1	22 36	[-51]	—	54.0
Moncalleri	90.7	328	e 22 29	†	33 22	†SR <sub>1</sub>	48.4	—
Granada	90.8	317	i 13 16	- 4	i 22 49	[-44]	40.6	53.0
Ekaterinburg	90.9	3	e 13 14	- 7	i 23 22	[-11]	32.8	53.8
Tortosa	91.1	321	e 15 9	+107	e 23 54	[+19]	e 38.8	52.6
San Fernando	91.8	315	—	—	—	—	45.8	57.8
Toledo	92.8	319	—	—	—	—	e 45.7	56.9
Strasbourg	93.5	330	e 13 30	- 5	—	—	e 29.6	—
Irkutsk	95.6	27	e 13 13	-34	24 7	[+ 7]	34.8	—
Paris	95.9	329	—	—	—	—	e 58.8	—
Pulkovo	96.3	348	e 14 44	+53	24 12	[+ 8]	46.8	57.7
Leningrad	96.5	348	—	—	i 24 12	[+ 7]	46.8	57.5
Hamburg	96.5	335	—	—	—	—	e 56.8	—
Uccle	96.6	330	—	—	—	—	e 40.8	—
De Bilt	97.3	332	—	—	—	—	e 40.8	61.2
Kew	99.1	325	—	—	—	—	e 36.8	—
Edinburgh	103.4	330	—	—	—	—	—	63.8
Sucre	103.6	235	—	—	—	—	52.7	56.8
Ottawa	E. 142.5	302	—	—	e 23 14	†PR <sub>1</sub>	e 69.8	—
Toronto	145.1	299	—	—	e 45 50	†SR <sub>1</sub>	62.8	84.1
Chicago	151.2	296	—	—	—	—	86.0	89.8
Victoria	E. 165.6	1	—	—	—	—	85.4	95.6

Additional readings: Simla eN = +33m.38s. Baku iP = +11m.57s., MN = +41.6m., MZ = +48.4m. La Plata L = PR<sub>1</sub> + 8s. Almeria MN = +55.2m. Moncalleri. Readings diminished by 1h.: if further increased by 1m., then P = [S] - 3s. and S = SR<sub>1</sub> - 31s. Granada PS = +23m.34s. Ekaterinburg e = +24m.10s. = S - 13s., and +25m.16s., i = +30m.14s. = SR<sub>1</sub> - 27s., MNZ = +54.0m. Tortosa SN = +23m.56s. San Fernando SR<sub>1</sub> = +30m.32s. Toledo MNE = +52.0m.; all readings have been diminished by 1h. Pulkovo PR<sub>1</sub> = +17m.10s., PR<sub>2</sub> = +19m.20s., MN = +56.6m. Leningrad ePR<sub>1</sub> = +17m.8s., e = +19m.5s., MN = +57.2m., MZ = +57.8m. De Bilt MN = +66.6m. Edinburgh reading has been increased by 1h. Ottawa eN = +35m.2s., +41m.30s. = SR<sub>1</sub> + 8s., and +46m.50s. = SR<sub>2</sub> - 34s., eLN = +60.8m. Victoria LN = +81.1m.

July 22d. Readings also at 2h. (La Paz and Sucre), 3h. (Ekaterinburg), 4h. (Pulkovo, Leningrad, and Sucre), 5h. (Sucre and La Paz), 6h. (Nagoya, near Osaka, Kobe, and Sumoto), 7h. (near Sumoto and near Taihoku), 8h. (Irkutsk), 9h. (Strasbourg, Zurich (2), and Ekaterinburg), 17h. (near Mizusawa), 18h. (La Paz), 20h. (near Taihoku).

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July 23d. 4h. 32m. 42s. Epicentre 46°·5N. 13°·0E. (as on 1924 Dec. 12d.).

A = +·671, B = +·155, C = +·725; D = +·225, E = -·974;  
G = +·707, H = +·163, K = -·688.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	s.		m.	s.		
Laibach	1·1	113	e 0	6	-11	e 0	11	-20	10·4	0·5	
Venice	1·1	204	1 0	37	+20						
Innsbruck	N.W.	1·4	305	1 0	21	0	1 0	36	- 3		
Ravensburg		2·7	299								1·3
Vienna	Z.	2·9	52	1 39	+54				(1·6)		
Zurich		3·2	288	e 0	48	- 2	1 1	29	+ 1		
Hohenheim		3·4	313							1 1·7	1·8
Strasbourg		4·1	302	e 1	8	+ 4	2 10	+17			

Additional readings: Venice iP = +35s. Hohenheim eE = +4h.31m.10s.  
Strasbourg SR<sub>1</sub> = +2m.16s.

July 23d. 5h. 16m. 40s. Epicentre 6°·5N. 126°·0E. (as on 1922 June 27d.).

A = -·584, B = +·804, C = +·113; D = +·809, E = +·588;  
G = -·066, H = +·092, K = -·994.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	s.		m.	s.		
Manila	9·5	330	12	45	+22				16·0	7·8	
Amboina	10·4	168	(2 27)		- 9	(1 4 25)		-15			
Hong Kong	19·5	326	4 43		+ 8	(8 28)		+15	8·5	8·7	
Batavia	22·9	237	15 14		- 2	1 9 30		+ 7			
Malabar	22·9	233	5 14		- 2						
Phu-Lien	23·6	309	15 27		+ 3	e 9 48		+12	12·3		
Zi-ka-wei	25·0	351	15 38		0	1 10 7		+ 4			
Osaka	29·5	16	7 14		+51				14·9		
Melbourne	47·7	160							1 18·6	19·4	
Irkutsk	49·1	344	9 2		+ 1	16 2		- 5	26·3		
Ekaterinburg	71·2	330	1 11 32		+ 8	1 20 46		+ 6	25·3	43·4	
Honolulu	E.	74·7	69			21 26		+ 4	e 35·0	46·4	
Baku	75·2	312	1 12 1		+11	21 39		+11	38·3	42·8	
Pulkovo	87·2	331	12 58		- 2	1 23 33		-10	42·8	52·6	
Leningrad	87·2	331	1 12 57		- 3	1 23 33		-10	38·3	53·2	
Upsala	93·4	333							48·3		
Victoria	E.	98·6	40	24 27	±8	(24 27)		[+10]	46·4	47·2	
Hamburg	99·7	327							e 51·3		
Strasbourg	102·4	321							e 56·3		
De Bilt	102·9	327							e 53·3	62·0	
Uccle	104·0	326							e 47·3		
Edinburgh	105·0	333							60·3		
Kew	106·1	328							e 57·3		
Paris	106·1	324							e 64·3		
Tortosa	N.	111·2	319						e 52·3	61·8	
Granada	115·9	316				e 29 20		+63	e 63·3	79·2	
Ottawa	124·7	18				e 26 10		[+12]	e 52·3		
Toronto	E.	124·9	20						63·3		
La Paz	162·9	127	1 20 20		[+10]						

Additional readings and notes: Manila MN = +7·6m. Amboina readings have been increased by 5m. Batavia iP = +5m.17s. Zi-ka-wei PR<sub>1</sub> = +6m.4s., SR<sub>1</sub> = +10m.26s. Irkutsk PR<sub>1</sub> = +10m.59s. Ekaterinburg ePS = +21m.33s. = [S] +13s., MN = +38·8m., MZ = +43·7m. Honolulu PSE = +22m.0s., SR<sub>1</sub> = +26m.44s. Baku MN = +42·6m. Pulkovo PR<sub>1</sub> = +16m.44s., S<sub>1</sub>P<sub>1</sub>S = +23m.20s. = [S] +10s., SR<sub>1</sub> = +29m.20s., SR<sub>2</sub> = +33m.32s., MN = +50·1m., MZ = +53·5m. Leningrad PR<sub>1</sub> = +16m.31s., SR<sub>1</sub> = +33m.30s. Granada i = +31m.25s. Ottawa e = +37m.50s. = SR<sub>1</sub> +5s.

July 23d. Readings also 0h. (near Sumoto), 2h. (Ekaterinburg), 12h. (Ekaterinburg and Leningrad), 16h. (Ekaterinburg), 17h. (Baku).

July 24d. Readings at 6h. (near Misusawa), 8h. (Pulkovo), 10h. (Toronto, Ottawa, and Merida), 12h. (Baku, Pulkovo, Ekaterinburg, Ottawa, and Toronto), 13h. (San Fernando and Ekaterinburg), 14h. (near Athens), 18h. (near Irkutsk), 19h. (Baku and Ekaterinburg), 20h. (Adelaide), 21h. (Granada, Tokyo, Ottawa, and Toronto).

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July 25d. 4h. 52m. 35s. Epicentre 51°-5S. 144°-5E.

A = -507, B = +361, C = -783; D = +581, E = +814;  
G = +637, H = -454, K = -623.

Was there another shock near Piatigorsk which causes confusion ?

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	13.7	2	13 13	- 9	15 49	-12	—	6.8
Adelaide	17.1	343	e 4 10	+ 4	(e 6 15)	-65	e 6.2	7.5
Sydney	18.3	18	4 25	+ 4	7 55	+ 8	9.7	11.0
Wellington	23.0	76	—	—	—	—	e 10.3	—
Perth	28.7	302	6 17	+ 2	—	—	12.5	—
Kodakanal	84.4	294	51 37	?S	—	—	(51.6)	—
Zi-ka-wel	85.2	340	e 12 43	- 6	—	—	—	52.4
Honolulu	N. 88.4	50	—	—	23 49	- 7	37.6	41.4
Baku	E. 123.0	295	—	—	e 30 37	?	54.4	69.8
Victoria	E. 126.9	54	—	—	—	—	60.4	72.2
Ekaterinburg	128.2	315	e 21 5	?PR <sub>1</sub>	—	—	32.4	—
Piatigorsk	129.3	293	e 28 7	?S	(e 28 7)	-109	i 28.4	—
Pulkovo	143.6	310	e 19 57	[+11]	—	—	67.8	76.1
Leningrad	143.7	310	e 19 57	[+11]	—	—	e 70.4	115.8
Toronto	N. 149.8	87	—	—	—	—	78.9	—
Strasbourg	E. 152.5	281	—	—	—	—	e 91.4	—
Almeria	E. 152.6	251	—	—	—	—	—	87.6
Ottawa	E. 152.9	87	—	—	e 35 25?	?	e 72.4	—
Granada	153.4	250	120 23	[+23]	—	—	72.8	82.6
San Fernando	E. 154.4	246	—	—	—	—	—	88.9
De Bilt	155.2	288	—	—	—	—	e 82.4	—
Toledo	N.E. 155.4	254	—	—	—	—	e 71.1	87.4
Kew	158.3	284	—	—	—	—	e 92.4	—
Edinburgh	160.6	296	—	—	—	—	e 95.4	—

Additional readings and note: Adelaide P has been increased by 5m. Perth PR<sub>1</sub> = +6m.54s., PS = +10m.5s., L = +12.2m. Zi-ka-wel readings have been increased by 1h. Honolulu LE = +42.6m., ME = +47.4m. Baku MN = +65.0m., MZ = +68.0m. Ekaterinburg e = +31m.3s. Toronto LE = +88.4m. Ottawa e = +44m.7s., eLN = +64.4m. San Fernando MN = +87.9m.

July 25d. 17h. 57m. 50s. Epicentre 36°-0N. 120°-5W.

A = -411, B = -697, C = +588; D = -862, E = +508;  
G = -298, H = -506, K = -809.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	1.6	326	10 29	+ 5	10 49	+ 4	—	—
Santa Clara	1.8	321	0 30	+ 2	10 45	- 6	i 1.1	1.4
Berkeley	2.4	323	e 0 36	- 1	i 1 5	- 1	—	1.4
Spokane	11.8	10	2 23	-33	6 4	+50	6.7	7.2
Victoria	12.6	352	5 48	?S	(5 48)	+14	6.4	8.3
Denver	N. 12.8	68	e 2 25	-45	e 3 55	-104	14.7	—
Chicago	E. 26.1	67	e 9 10	?	10 22	- 2	14.0	16.1
Ann Arbor	29.0	86	—	—	—	—	e 15.4	18.7
Toronto	32.1	64	—	—	e 12 20	+10	18.6	—
Ottawa	34.8	60	—	—	e 12 58	+ 6	e 20.9	—
Honolulu	35.8	257	—	—	13 28	+21	18.9	23.4
Fordham	36.4	69	e 15 59	?	19 34	?	22.7	24.0
Harvard	N. 38.3	65	—	—	—	—	17.3	20.8

Additional readings: Lick i = +41s., iZ = +43s. and +45s. Santa Clara i = +32s., +38s., and +1m.1s. Berkeley e = +43s., iZ = +44s.?, +51s., and +58s., iN = +53s., i = +57s., MN = +1.5m., MZ = +1.7m. Spokane eN = +2m.53s., eE = +3m.39s., iE = +6m.14s., PSE? = +6m.28s. Victoria LN = +7.1m. Toronto eN = +15m.47s. Ottawa eE = +11m.34s. and +16m.34s., eN = +14m.40s., eLN = +18.7m. Honolulu SE<sub>1</sub>N = +15m.52s., SE<sub>1</sub>-1s., LN = +19.2m. Fordham eN = +16m.29s., and +19m.14s., eE = +19m.59s. Harvard eN = +20m.10s., ME = +24.2m.

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July 25d. Readings also at 1h. (near Berkeley), 3h. (Colombo), 7h. (Christchurch) 8h. (Sydney, Ekaterinburg, Adelaide, and near Malabar), 9h. (Pulkovo), 10h. (Irkutsk and Lick), 11h. (Leningrad, Pulkovo, Ekaterinburg, Hong Kong, and near Manila), 12h. and 18h. (near Lick), 19h. (La Paz), 20h. (Apia), 21h. (Kodaikanal and near Malabar), 22h. (Kodaikanal).

July 26d. 18h. 54m. 45s. Epicentre 36°0N. 134°0E. (as on 1922 Feb. 5d.).

A = -·562, B = +·582, C = +·588; D = +·719, E = +·695;  
G = -·408, H = +·423, K = -·809.

A depth of focus 0·050 has been assumed, see note at end. For the residuals in [S] the  $\Delta$  uncorrected for focal depth has been used at present. Several stations indicate at least one other shock about a minute later.

	Corr. for Focus	$\Delta$	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Kobe	+1·5	1·6	144	0	53	+4	(1 26)	0	1·4	1·5			
Osaka	+1·4	1·8	139	0	53	+3	(1 30)	+2	1·5	2·2			
Sumoto	+1·4	1·9	157	1	1	+9	1 35	+4	1·7	1·7			
Matuyama	+1·2	2·4	205	10	47	-9	—	—	e 2·2	—			
Nagoya	+1·1	2·5	109	0	48	-8	(1 26)	-13	1·4	1·8			
Hukuoka	+0·7	3·8	231	1	26	+16	—	—	2·5	2·5			
Nagasaki	+0·4	4·7	228	1	31	+12	—	—	2·8	2·8			
Mizusawa	0·0	6·4	59	1	33	-5	2 38	-17	—	—			
Zi-ka-wei	-0·8	11·5	249	2	54	+14	5 17	+29	—	—			
Ootomari	-1·0	12·5	29	2	51	-1	(4 15)	-52	4·2	5·1			
Hong Kong	-2·2	22·0	237	5	30	+51	—	—	—	—			
Manila	-2·6	24·4	212	e 5	1	-2	—	—	i 12·2	—			
Irkutsk	-2·8	26·5	317	5	25	0	i 9 42	+4	11·2	14·4			
Phu-Lien	-3·0	28·4	245	—	—	—	—	—	14·2	—			
Batavia	-4·8	49·3	219	i 9	33	+63	i 15 2	-7	—	—			
Ekaterinburg	-4·9	51·8	319	e 8	54	+8	e 15 49	+9	20·2	34·0			
Baku	-5·6	63·6	304	e 11	31	+92	i 18 30	+31	—	—			
Leningrad	-5·7	65·6	328	e 10	23	+12	i 18 46	+24	i 25·2	43·8			
Pulkovo	-5·7	65·7	328	e 11	25	+73	i 19 46	+83	26·2	—			
Makeyevka	-5·8	67·6	314	e 13	33	?PR <sub>1</sub>	i 19 8	+22	37·2	—			
Upsala	-5·9	70·9	332	—	—	—	e 19 41	+16	—	—			
Hamburg	z.	-6·1	78·2	330	e 12	59	+88	—	—	—			
Vienna	-6·2	79·1	324	e 11	41	+6	21 18	+17	—	—			
Edinburgh	-6·2	81·2	338	—	—	—	i 21 33	+7	—	—			
De Bilt	-6·3	81·3	330	—	—	—	21 36	+10	e 45·2	—			
Hohenheim	n.	-6·3	82·1	328	—	—	e 21 41	+6	—	—			
Uccle	-6·3	82·6	330	e 11	56	-1	21 44	+3	e 42·2	—			
Strasbourg	-6·3	82·9	328	12	0	+1	i 21 49	+5	35·2	54·8			
Venice	-6·3	83·1	323	15	1	?PR <sub>1</sub>	20 50	-57	—	—			
Zurich	-6·3	83·4	326	e 11	51	-11	e 21 47	-3	—	—			
Kew	-6·3	83·8	333	12	4	0	21 51	-4	35·2	—			
Paris	-6·4	84·9	330	e 12	7	-3	i 21 58	-8	49·2	—			
Pompeii	-6·4	85·2	319	e 22	36	?S	(e 22 36)	+26	—	—			
Moncalieri	-6·4	85·6	325	e 12	3	-11	i 22 1	-13	34·0	—			
Rocca di Papa	-6·4	85·6	320	e 11	26	-48	e 21 11	-63	—	—			
Algiers	-6·6	94·1	323	11	58	-64	e 22 48	-59	37·2	—			
Ottawa	-6·6	94·3	20	—	—	—	i 23 30	[-23]	e 37·2	—			
Toronto	n.	-6·6	94·8	23	—	—	e 23 15	[-41]	37·2	—			
Granada	-6·6	96·9	328	e 12	38	-40	i 22 53	[-74]	49·2	58·7			
Rio Tinto	-6·7	97·7	330	110	15	?	—	—	—	137·8			
La Paz	—	152·3	51	19	19	[-40]	—	—	—	—			
Sucre	—	156·0	50	19	22	[-41]	—	—	—	—			

Additional readings: Toyooka ( $\Delta = 0^{\circ}8$ ) gives simply eP = 18h.54m. Osaka MN = +1·9m. Sumoto MN = +1·8m. Mizusawa SN = +2m.40s. Irkutsk iP = +6m.33s., eS = +8m.34s., MN = +14·7m., MZ = +15·4m. Batavia iZ = +9m.39s., Ekaterinburg iP = +9m.0s., PR<sub>1</sub> = +10m.12s., PR<sub>2</sub> = +12m.6s., iS = +15m.52s., SR<sub>1</sub> = +18m.6s., e = +25m.10s., MN = +30·5m. Leningrad i = +19m.39s., iSR<sub>1</sub> = +23m.11s. Vienna iEZ = +13m.4s., iN = +21m.55s. and +22m.15s. Uccle SR<sub>1</sub> = +27m.21s. Strasbourg i = +13m.33s., iS = +22m.45s. Rocca di Papa ePE = +12m.22s., ePNZ = +12m.47s. and +13m.47s., iS = +23m.26s. Algiers e = +13m.38s., eS = +22m.48s. Ottawa eN = +22m.47s., eE = +23m.23s..

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NOTE TO SHOCK OF JULY 26d., 18h.

Mr. Wadati's T<sub>1</sub> was used, but an independent determination of epicentre was made, the evidence for which is given below. Using the adopted origin we have for the stations whose  $\Delta$  is less than 10°.

Station.	Azimuth.	Residual without assuming focal depth.	Residual after assuming focal depth 0-050.
Kobe	144	+1.6	+0.1
Osaka	139	+1.5	+0.1
Sumoto	157	+1.8	+0.4
Matuyama	205	+0.6	-0.6
Nagoya	109	+0.6	-0.5
Hukuoka	231	+1.3	+0.6
Nagasaki	228	+1.3	+0.9
Mizusawa	59	-0.4	-0.4

For those further than 10° we can group the stations in Azimuth as follows :—

No.	Station.	Azimuth	Mean Residual (no focal depth)	Mean Residual (with focal depth)
1	Ootomari	29	-1.0	0.0
4	China, etc.	230	-3.6	+0.3
15	Europe, etc.	327	-5.4	+0.5

Any compromise adjustment to suit the majority of these stations without the assumption of deep focus must necessarily involve a large displacement of origin. This would throw out *all* the close stations which fit in very well with the focus assumed. Moreover, [P] at La Paz and Sucre indicate a deep focus clearly.

July 26d. Readings also at 0h. (Manila and Tokyo), 2h. (Makeyevka, Ekaterinburg, Leningrad, Pulkovo, near Manila, and near Toyooka), 4h. (La Paz (2)), 6h. (Ravensburg, Nagoya, near Osaka, Sumoto, and Kobe), 7h. (Vienna, Hohenheim, Innsbruck, near Strasbourg, and Zurich), 16h. (Taihoku), 17h. (near Sumoto), 18h. (Kucino, Nagoya, and Zingorsk, and near Mizusawa), 20h. (near Taihoku), 21h. (near Tacubaya).

July 27d. 4h. 53m. 15s. Epicentre 52°-0N. 36°-0W. (as on 1925 Aug. 7d.).

A = +.498, B = -.362, C = +.788; D = -.588, E = -.809;  
G = +.638, H = -.463, K = -.616.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	19.5	65	—	—	e 7 45?	-28	—	—
Stonyhurst	20.1	71	4 45	+ 3	8 28	+ 3	—	11.8
Kew	21.9	77	5 4	0	e 9 14	+11	11.8	—
Paris	24.5	82	15 29	- 4	e 9 8	-46	13.8	—
Uccle	24.9	77	e 5 33	- 4	e 9 54	- 7	e 12.8	—
De Bilt	25.0	73	15 37	- 1	e 9 55	- 8	e 12.8	15.4
Ottawa	26.7	272	—	—	e 10 45	+10	e 14.2	—
Granada	27.1	110	—	—	—	—	e 12.8	14.8
Hamburg	27.4	68	e 5 58	- 4	—	—	e 16.8	—
Strasbourg	27.7	79	e 6 45?	-20	e 9 45?	-69	14.8	—
Toronto	E. 29.8	271	—	—	—	—	17.8	—
Rocca di Papa	34.1	88	—	—	—	—	—	4.1
Leningrad	36.3	51	—	—	—	—	15.4	—
Makeyevka	45.6	64	—	—	—	—	21.8	—
Ekaterinburg	51.7	44	—	—	—	—	21.8	—

Additional readings: De Bilt MZ = +15.7m. Ottawa eLN = +16.2m.  
Strasbourg e = +7m.45s. ? Rocca di Papa eP = +4h.51m.9s.

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July 27d. 5h. 47m. 12s. Epicentre 6°·5N. 126°·0E. (as on 1926 July 23d.).

A = -·584, B = +·804, C = +·113 ; D = +·809, E = +·588 ;  
G = -·066, H = +·092, K = -·994.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Manila	9·5	330	e 2 32	+ 9	—	—	14·7
Hong Kong	19·5	326	4 22	-13	8 6	- 7	—
Batavia E.	22·9	237	15 40	+24	—	—	—
Irkutsk	49·1	344	9 7	+ 6	—	—	24·8
Ekaterinburg	71·2	330	—	—	e 20 26	-14	25·8
Baku	75·2	312	—	—	e 21 13	-15	40·8
Zagreb	99·0	318	—	—	—	—	45·8
De Bilt	102·9	327	—	—	—	—	e 56·8
Uccle	104·0	326	—	—	—	—	e 53·8

Additional readings: Irkutsk e = +10m.58s. = PR<sub>1</sub> -9s. Ekaterinburg  
e = +20m.52s. and +22m.10s.

July 27d. 7h. 23m. 36s. Epicentre 30°·5N. 80°·5E.

A = +·142, B = +·850, C = +·508 ; D = +·986, E = -·165 ;  
G = +·084, H = +·501, K = -·862.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun	2·2	265	1 24	+50	1 44	+44	1·9	2·1
Simla	2·9	282	1 30	+45	2 0	+40	2·3	—
Calcutta N.	10·6	137	1 40	-58	3 50	-55	4·9	—
Hyderabad	13·2	188	5 11	?S	(5 11)	-38	(6·7)	6·9
Bombay	13·5	213	3 13	- 7	5 38	-18	6·9	7·4
Kodaikanal	20·5	189	6 6	+79	—	—	—	—
Colombo	23·6	182	9 24	?S	(9 24)	-12	(12·8)	14·8
Phu-Lien	25·4	106	5 24?	-18	—	—	—	—
Baku	26·7	300	e 5 45	-10	10 47	+12	e 15·9	—
Irkutsk	27·9	32	e 6 3	- 4	e 11 15	+18	15·4	—
Ekaterinburg	29·7	338	16 29	+ 4	11 31	+ 2	13·4	17·5
Makeyevka	36·7	312	e 7 28	0	1 13 19	- 1	17·4	26·5
Pulkovo	44·3	328	8 28	0	15 8	+ 2	18·4	29·0
Leningrad	44·4	328	8 28	- 1	1 15 8	+ 1	1 18·5	28·3
Upsala N.	50·5	325	—	—	—	—	e 26·4	—
Strasbourg	56·7	312	—	—	—	—	27·4	—
De Bilt	57·7	317	—	—	e 18 15	+20	e 33·4	38·5
Uccle	58·4	316	—	—	—	—	e 26·4	—
Paris	60·0	314	—	—	e 36 6	?	38·1	39·4
Kew	61 1	315	—	—	—	—	e 32·4	—
Edinburgh	61·7	321	—	—	—	—	e 34·4	—
Granada	67·8	301	—	—	—	—	32·4	43·1
Ottawa	101·1	345	—	—	—	—	e 47·7	—
Toronto N.	103·6	347	—	—	—	—	62·4	—

Additional readings and notes: Hyderabad and Colombo give S as P and L as S.  
Baku e = +6m.9s. = PR<sub>1</sub> -29s. Ekaterinburg SR<sub>1</sub> = +12m.17s., MZ =  
+19·6m. Pulkovo MN = +25·3m., MZ = +27·5m. Leningrad MN =  
+27·7m., MZ = +29·0m. De Bilt MN = +34·0m.

July 27d. Readings also at 5h. (near Taihoku (3) ), 9h. (Stonyhurst), 12h. (near Sumoto), 23h. (Tokyo).



Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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**July 28d. 8h. 52m. 20s. Epicentre 9°5S. 157°0E.**  
(as on 1926 March 27d.).

A = -·908, B = +·385, C = -·165; D = +·391, E = +·920;  
G = +·152, H = -·064, K = -·986.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24·9	191	i 5 46	+ 9	e 10 4	+ 3	e 12·8	17·9
Sydney	24·9	191	5 10	-27	(10 22)	+21	10·4	11·0
Amboina	29·2	280	—	—	(i 10 52)	-28	(25·4)	—
Melbourne	30·3	199	e 6 52	+21	i 11 28	-11	i 13·7	17·3
Adelaide	30·5	210	e 6 5	-23	i 11 29	-14	16·1	27·2
Apia	30·8	101	e 6 19	-17	i 11 43	-5	15·0	16·5
Wellington	N. 35·4	157	e 8 24	+67	i 13 15	+14	e 17·4	23·4
Christchurch	36·7	161	17 34	?L	—	—	19·8	22·9
Manila	43·1	304	e 8 12	- 7	—	—	i 20·7	—
Perth	44·2	234	15 0	?S	(15 0)	- 5	23·7	31·2
Osaka	48·7	336	9 23	+25	16 0	- 2	23·5	26·0
Taihoku	E. 48·9	317	—	—	e 16 8	+ 3	23·8	—
Malabar	48·9	271	9 0	+ 1	i 16 0	- 5	—	—
Batavia	49·7	273	e 9 6	+ 1	i 16 9	- 6	33·7	—
Hong Kong	52·7	308	9 14	-10	16 45	- 7	26·4	28·2
Zi-ka-wei	53·1	322	i 9 17	-10	16 40	-17	26·9	30·2
Honolulu	E. 53·8	55	e 9 20	-12	e 17 58	+52	25·7	28·0
	N. 53·8	55	e 9 20	-12	e 17 8	+ 2	26·4	27·3
Phu-Lien	58·1	300	e 9 58	- 2	e 17 57	- 3	23·7	—
Irkutsk	76·4	330	11 48	- 9	i 21 32	-10	36·7	43·1
Kodaikanal	81·6	282	22 40	?S	(22 40)	- 2	—	—
Hyderabad	82·2	289	e 12 28	- 3	22 40	- 8	41·2	50·7
Sitka	E. 86·2	30	—	—	—	—	43·1	—
Simla	E. 86·4	303	e 23 16	?S	(e 23 16)	-18	—	—
Bombay	87·6	290	—	—	e 23 40?	- 8	—	—
Victoria	90·4	40	12 58	-20	23 58	-20	38·0	44·8
Spokane	94·0	42	—	—	e 26 17	? 4	e 46·3	54·8
Tucson	E. 96·8	57	14 15	+22	25 16	- 8	44·0	48·7
Ekaterinburg	101·4	326	e 13 54	-23	24 35	[+ 4]	29·7	57·1
Baku	109·1	310	e 14 26	-27	e 25 10	[+ 4]	e 38·8	65·5
Piatigorsk	113·7	315	—	—	—	—	—	68·7
Kucino	114·0	328	—	—	e 25 32	[+ 6]	59·0	71·1
Loyola	114·5	61	—	—	—	—	e 53·7	62·7
Chicago	E. 115·2	48	—	—	25 35	[+ 5]	56·5	62·7
Leningrad	116·0	333	e 19 30	?PR <sub>1</sub>	e 27 26	-52	55·3	71·7
Pulkovo	116·1	333	—	—	25 38	[+ 5]	50·7	67·4
Makeyevka	116·2	320	e 19 51	?PR <sub>1</sub>	e 25 40	[+ 7]	30·7	67·2
Ann Arbor	N. 117·9	46	—	—	—	—	e 59·8	—
Toronto	E. 120·5	44	e 20 17	?PR <sub>1</sub>	e 30 9	+76	52·0	75·7
Upsala	121·3	337	—	—	e 37 40?	?SR <sub>1</sub>	e 61·7	80·4
Ottawa	122·4	40	e 20 30	?PR <sub>1</sub>	e 26 2	[+10]	e 51·7	—
Ithaca	122·9	44	—	—	—	—	59·7	—
Cheltenham	N. 123·8	49	—	—	—	—	e 70·1	75·1
Fordham	125·4	45	—	—	—	—	e 54·1	65·7
Harvard	N. 126·7	42	—	—	—	—	e 56·6	68·6
Budapest	128·1	325	e 21 40?	?PR <sub>1</sub>	—	—	e 65·7	83·2
La Paz	128·3	121	19 26	[+11]	31 35	? 4	61·5	70·9
Hamburg	128·6	335	e 19 22	[+ 7]	—	—	b 61·7	67·7
Sucre	129·5	124	e 20 1	[+44]	—	—	65·7	—
Cheb	130·0	331	—	—	e 27 40?	?PR <sub>2</sub>	—	72·7
Graz	130·3	327	e 22 37	?PR <sub>1</sub>	e 33 13	? 4	63·7	81·2
Zagreb	130·8	325	e 22 22	?PR <sub>1</sub>	—	—	—	—
Edinburgh	131·1	345	—	—	i 39 10	?SR <sub>1</sub>	63·7	—
De Bilt	131·6	336	e 19 21	[- 1]	—	—	e 59·7	69·3
Uccle	133·0	336	e 19 18	[- 7]	—	—	e 57·7	82·4
Strasbourg	133·2	331	e 19 21	[- 5]	—	—	e 47·7	72·8
Bradston	133·3	343	23 40	? 4	—	—	60·7	84·8
Zurich	133·7	330	e 20 33	[+66]	e 22 43	?PR <sub>1</sub>	—	—
Kew	134·1	340	e 19 18	[-10]	—	—	48·7	71·0
Florence	134·7	324	e 18 55	[-34]	31 40	? 4	61·7	73·4
Rocca di Papa	135·1	321	e 17 43	[-87]	—	—	—	24·9
Paris	135·3	336	e 19 26	[- 5]	e 36 58	? 4	67·7	84·7
Moncalieri	135·8	329	e 19 19	[-13]	34 8	? 4	50·5	83·8
Toledo	145·3	335	e 19 43	[- 6]	e 36 34	? 4	e 48·3	76·9
Almeria	146·9	329	19 42	[- 9]	—	—	—	86·6
Granada	147·3	330	i 19 46	[- 6]	—	—	72·3	100·8
Malaga	148·0	331	19 46	[- 7]	—	—	—	—
San Fernando.	149·0	332	19 58	[+ 4]	35 21	? 4	73·7	102·7

For Notes see next page.

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NOTES TO JULY 28d. 8h. 52m. 20s.

Additional readings and notes: Riverview PS = +10m.22s. and +10m.40s. = SR<sub>1</sub>-21s, MN = +17.0m, MZ = +17.4m; T<sub>0</sub> = 8h.52m.30s. Amboina readings have both been increased by 20m. Melbourne i = 8h.46m.6s.; all readings have been increased by 1h. Adelaide iSR<sub>1</sub> = +13m.40s., iSR<sub>2</sub> = +14m.57s., MN = +18.9m. Apia S = +12m.51s. = SR<sub>1</sub>-32s. Wellington SR<sub>1</sub>N = +15m.5s., SR<sub>2</sub>N = +15m.37s. Perth S = +20m.10s. = SR<sub>1</sub>+28s., L = +25.0m. Honolulu P<sub>0</sub>PE = +10m.46s., PR<sub>1</sub>E? = +11m.52s., PR<sub>2</sub>N = +12m.13s., PR<sub>2</sub>E = +13m.16s. = PR<sub>2</sub>-2s., PR<sub>2</sub>N = +15m.22s., P<sub>0</sub>SN = +16m.10s., P<sub>0</sub>SE = +16m.28s., SR<sub>1</sub> = +21m.46s., SR<sub>2</sub>E? = +22m.52s. Irkutsk MN = +44.1m., MZ = +46.9m. Sitka LN = +38.3m. Simla ePN = +23m.22s. Victoria MN = +64.0m.; T<sub>0</sub> = 8h.52m.14s. Spokane MN = +49.7m. Tucson eE = +15m.28s., PR<sub>1</sub>E? = +17m.23s. and +18m.17s., SPSE = +24m.16s. = [S]+9s., PSE = +26m.30s., SR<sub>1</sub>E = +31m.58s., SR<sub>2</sub>E = +35m.28s. Ekaterinburg PR<sub>1</sub> = +18m.1s., PPS = +27m.6s., MZ = +61.7m. Baku iPR<sub>1</sub> = +18m.51s., e = +27m.54s. = S+34s., MZ = +77.1m. Kucino e = +32m.42s., i = +33m.12s., and +36m.18s. = SR<sub>1</sub>+36s., e = +45m.12s. = SR<sub>2</sub>+40s., MN = +63.8m. Loyola PSE = +28m.5s. = S-1s., PSN = +29m.4s., PPSN = +29m.45s., PPSE = +30m.15s., SR<sub>1</sub> = +35m.40s., eLN = +56.2m., MN = +59.6m. Chicago SE = +26m.45s., PSE = +29m.13s., eE = +34m.4s., SR<sub>1</sub>E = +36m.4s., eE = +39m.40s., SR<sub>2</sub>E = +40m.4s., SR<sub>2</sub>E? = +41m.4s., eSR<sub>2</sub>E = +43m.22s., SR<sub>2</sub>E? = +46m.46s. Leningrad e = +35m.16s. = SR<sub>1</sub>-42s., MZ = +72.2m., MN = +72.5m. Pulkovo PR<sub>1</sub> = +19m.40s., S = +27m.24s., PS = +29m.10s., SR<sub>1</sub> = +35m.34s., MN = +65.1m., MZ = +71.6m. Makeyevka MN = +72.0m. Ottawa e = +27m.40s. and +36m.52s. = SR<sub>1</sub>-24s., i = +30m.20s. Fordham ePR<sub>1</sub> = +20m.51s., ePR<sub>2</sub> = +23m.47s., ePR<sub>3</sub> = +26m.12s., ePSN = +30m.47s., ePS = +33m.19s., eSR<sub>1</sub> = +37m.50s.; T<sub>0</sub> = 8h.52m.17s. Budapest MN = +71.4m. La Paz PR<sub>1</sub> = +22m.40s. Hamburg MN = +65.7m., MZ = +79.7m. Zagreb e = +23m.39s. De Bilt eZ = +21m.34s. = PR<sub>1</sub>-6s., e = +22m.43s. and +39m.5s. = SR<sub>1</sub>-10s., MZ = +77.6m., MN = +78.2m. Uccle MN = +78.5m. Strasbourg MNZ = +78.7m. Moncalieri MN = +83.9m. Toledo MNW = +78.4m. Granada i = +21m.40s., +23m.12s. = PR<sub>1</sub>-8s., and +25m.50s. San Fernando MN = +92.2m.

July 28d. Readings also at 1h. (near Athens), 7h. (Hamburg), 12h. (near Batavia), 13h. (Apia and near Mizusawa), 22h. (Irkutsk, near Mizusawa, Osaka, and Nagoya).

July 29d. Readings at 0h. (Irkutsk), 1h. (Pulkovo, Leningrad, Ekaterinburg and Honolulu), 3h. and 5h. (Ekaterinburg), 7h. (near Sumoto), 12h. (Ekaterinburg, Pulkovo, Irkutsk (2), Strasbourg, and near Hukuoka), 13h. (Granada, Strasbourg, De Bilt, Uccle, Kew, Baku, Makeyevka, Irkutsk, Pulkovo, Leningrad, and near Laibach), 14h. (near Hukuoka and Matuyama), 15h. (Tokyo and Nagoya), 17h. (La Plata), 18h. (Florence), 20h. (Baku), 22h. (near La Paz).

July 30d. 13h. 20m. 5s. Epicentre 49°-2N. 1°-7W.

Given by H. Jeffreys Geophy. Supp. to M.N.R.A.S. I, 484, June 1927.

A = +.653, B = -.019, C = +.757; D = -.030, E = -.1000;  
G = +.757, H = -.022, K = -.653.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Plymouth	2.0	306	0 34	+ 3	—	—	—	—
Kew	2.4	21	0 39	+ 2	1 10	+ 4	—	1.5
Paris	2.8	98	e 0 40	- 4	1 14	- 3	1.4	1.4
Uccle	4.2	66	e 0 54	-11	1 46	- 9	2.1	2.4
Bidston	4.3	350	0 34	-33	1 9	-49	—	2.2
Puy de Dôme	4.7	134	1 18	+ 5	12 23	+14	(1 2.4)	2.4
Stonyhurst	4.7	355	e 1 13	0	12 21	+12	(1 2.4)	2.5
De Bilt	5.2	54	e 1 35	+15	—	—	1.2	—
Besançon	5.5	108	e 1 20	- 5	—	—	e 2.8	—
Neuchâtel	6.2	108	e 1 50	+15	13 9	+20	(1 3.1)	—
Strasbourg	6.2	92	e 1 23	-12	—	—	3.8	3.9
Bagnères	6.3	166	e 1 27	- 9	2 30	-22	—	—
Edinburgh	6.7	353	—	—	—	—	e 3.5	3.7

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hohenheim	7.2	90	e 1 23	-26	13 2	-13	i 3.3	4.0
Moncalieri	7.6	120	e 2 57	+62	3 56	+30	(3.9)	—
Ravensburg	7.6	96	e 2 11	+16	13 49	+23	14.0	4.2
Barcelona	8.2	159	e 2 14	+10	e 4 1	+19	e 4.3	—
Tortosa	8.5	168	e 1 54	-15	3 24	-26	3.6	4.8
	8.5	168	—	—	3 26	-24	3.6	4.6
Hamburg	8.5	53	e 3 6	+57	—	—	—	5.9
Cheb	9.2	79	—	—	e 4 2	-6	e 5.5	6.0
Toledo	9.5	190	—	—	e 4 2	-14	e 4.6	5.8
Venice	10.2	107	4 25	?S	(4 25)	-10	5.6	5.9
Alicante	10.9	175	e 4 17	?S	(4 17)	-35	7.1	—
Graz	11.6	94	e 3 32	+39	e 5 39	+30	6.2	7.0
Vienna	11.9	83	e 4 28	+90	5 41	+24	e 6.4	6.9
Granada	12.1	187	14 54	+114	5 19	-2	7.4	8.2
Almeria	12.3	182	e 4 13	+70	i 6 37	+71	7.4	7.7
Malaga	12.6	190	—	—	—	—	e 6.8	—
Budapest	13.9	89	7 31	?L	—	—	(7.5)	—
Pulkovo	21.0	48	e 4 36	-17	e 8 27	-17	9.9	—
Leningrad	21.1	48	—	—	(e 8 25)	-21	e 8.4	—
Ekaterinburg	36.9	54	—	—	—	—	e 18.9	—

Additional readings and notes: Paris iP = +47s. Uccle iP = +1m.14s.  
 Besançon i = +1m.38s. Strasbourg P? = +2m.4s., PR<sub>1</sub> = +2m.11s.  
 PS = +3m.21s., SR<sub>1</sub> = +3m.31s., MZ = +4.1m. Bagnères SR<sub>1</sub>? =  
 +3m.5s., SR<sub>2</sub>? = +3m.15s. Edinburgh i = +3m.35s. Hohenheim  
 i = +3m.10s., MN = +4.2m. Ravensburg iE = +3m.5s., +3m.9s.,  
 +3m.15s., +3m.21s., and +3m.35s. Cheb e = +4m.39s. Toledo  
 MZ = +5.6m., MNW = +5.9m. Alicante S = +6m.54s. Venice S is  
 given as P and L as S. Graz MN = +6.8m. Vienna P = +4m.48s.,  
 iZ = +5m.0s., iN = +5m.8s., iPR<sub>2</sub> = +5m.36s., iN = +5m.52s., iE =  
 +5m.54s., PS<sub>2</sub> = +6m.5s., S = +6m.10s., MZ = +6.7m., MN = +7.8m.  
 Granada i = +6m.0s.; all readings being given for 12h. Almeria MN =  
 +8.2m. Ekaterinburg L = +20.9m.

July 30d. Readings also at 6h. (La Paz, Sucre, Ottawa, Kew, De Bilt, and Uccle),  
 7h. (Irkutsk, Ekaterinburg, Baku, Pulkovo, and Strasbourg), 11h.  
 (Azores), 12h. (near Batavia and Malabar), 17h. (Tucson), 18h. (Ottawa,  
 Toronto, Victoria, Tacubaya, Vera Cruz, Puebla, Guadalajara, and  
 Oaxaca), 19h. (Tucson, La Paz, Ekaterinburg, and Pulkovo), 20h.  
 (Toronto, Ottawa, Victoria, Tacubaya, Vera Cruz, Puebla, Guadalajara,  
 and Oaxaca), 21h. (Pulkovo, Leningrad, Baku, Makeyevka, Irkutsk,  
 Ekaterinburg, near La Paz, and near Tacubaya).

July 31d. 11h. 27m. 24s. Epicentre 9°5S. 157°0E. (as on July 28d.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24.9	191	e 6 42	+65	—	—	e 13.8	15.9
Sydney	24.9	191	5 42	+5	—	—	14.4	15.9
Melbourne	30.3	191	—	—	e 11 30	-9	—	15.7
Adelaide	30.5	210	—	—	—	—	e 16.4?	20.1
Wellington	35.4	157	e 6 21	-56	—	—	—	—
Tokyo	48.0	342	—	—	—	—	30.3	—
Victoria	E. 90.4	40	24 36	?S	(24 36)	+18	43.4	48.4
	N. 90.4	40	24 26	?S	(24 26)	+8	47.3	—
Ekaterinburg	101.4	326	e 19 26	?PR <sub>1</sub>	(24 36?)	[+5]	24.6	—
Baku	109.1	310	—	—	—	—	73.6	—
Chicago	E. 115.2	48	—	—	—	—	e 56.8	—
Leningrad	116.0	333	19 42	?PR <sub>1</sub>	—	—	e 44.1	—
Pulkovo	116.1	333	19 41	?PR <sub>1</sub>	—	—	—	85.7
Toronto	120.5	44	—	—	e 51 51	?	63.6	—
Ottawa	E. 122.4	40	—	—	e 25 36?	[-16]	e 59.6	—
De Bilt	131.6	336	e 20 12	[+50]	—	—	e 83.6	—
Kew	134.1	340	—	—	—	—	e 88.6	—
Paris	135.3	336	—	—	—	—	e 89.6	—
Granada	147.3	330	—	—	—	—	e 94.6	102.0
San Fernando	149.0	332	—	—	71 42	?L	(71.7)	95.6

Additional readings: Riverview MN = +15.1m. Ekaterinburg e =  
 +22m.53s., PR<sub>2</sub> +8s. Ottawa eN = +28m.12s., LN = +66.6m. San  
 Fernando MN = +106.1m.

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July 31d. 18h. 9m. 40s. Epicentre 36°·5N. 36°·0W.

A = +·650, B = -·472, C = +·595; D = -·588, E = -·809;  
G = +·481, H = -·350, K = -·804.

	$\Delta$	Az.	P. m. s.	O - C.	S. m. s.	O - C.	L. m.	M. m.
Lisbon	21·3	76	e 5 5	+ 8	9 5	+15	—	—
Rio Tinto	23·3	78	7 20†	+120	—	—	—	19·3
San Fernando	23·8	81	5 34	+ 8	9 58	+18	11·8	12·8
Toledo	25·2	72	e 5 37	- 3	e 9 13	-54	e 10·3	12·3
Malaga	25·2	80	e 5 49	+ 9	10 43	+36	e 13·4	—
Granada	25·8	79	15 51	+ 5	e 9 12	-66	10·4	14·7
Almeria	26·8	79	5 36	-20	9 31	-66	e 11·0	15·8
Alicante	28·0	75	e 5 43	-25	e 9 24	-95	10·5	12·2
Bidston	28·4	43	6 20	+ 8	10 47	-19	12·8	15·6
Tortosa	E. 28·6	70	e 6 20	+ 6	—	—	—	—
Stonyhurst	28·9	42	e 6 45	+28	1 11 20	+ 5	—	—
Kew	29·3	48	e 6 26	+ 5	e 11 26	+ 4	13·3	15·1
Edinburgh	29·4	38	7 20†	+58	1 11 29	+ 5	13·3	17·1
Fordham	N. 29·6	290	e 4 47	-97	e 11 20	- 7	—	13·7
Barcelona	29·8	69	e 6 33	+ 7	e 11 20	-11	e 14·3	16·0
Paris	30·5	53	e 6 33	0	e 11 35	- 8	14·3	15·3
Dyce	30·5	36	—	—	—	—	—	14·8
Ottawa	31·0	300	e 6 38	0	(e 11 44)	- 7	15·3	—
Algiers	31·1	78	e 6 58	+19	e 11 34	-19	e 13·7	17·0
Uccle	32·0	50	e 6 48	+ 1	e 12 4	- 4	e 14·3	15·8
De Bilt	32·7	49	e 6 57	+ 3	12 17	- 2	e 14·3	18·6
Toronto	N. 33·6	298	—	—	e 12 30	- 4	15·4	—
Moncalieri	33·7	62	e 6 35	-27	12 30	- 6	15·8	20·0
Strasbourg	33·8	56	e 7 0	- 3	i 12 33	- 5	15·8	20·1
Zurich	34·3	59	e 6 59	- 8	e 12 43	- 1	—	—
Hohenheim	34·8	54	e 7 8	- 3	e 12 46	- 6	e 16·4	19·9
Hamburg	35·8	47	e 7 21	+ 1	—	—	e 17·7	21·7
Florence	36·3	65	e 8 30	+66	e 13 10	- 4	—	22·8
Ann Arbor	N. 36·8	296	—	—	—	—	e 18·1	—
Cheb	37·0	52	—	—	e 13 25	+ 1	—	21·6
Rocca di Papa	37·6	67	e 7 24	-11	e 13 33	+ 1	e 21·0	23·5
Graz	39·0	57	—	—	—	—	e 18·3	21·6
Zagreb	39·5	60	e 7 49	- 2	—	—	—	—
Upsala	41·0	39	—	—	e 17 20†	†SR <sub>1</sub>	e 18·3	23·8
Budapest	41·4	56	—	—	—	—	e 22·8	25·1
Pulkovo	47·4	40	e 8 57	+ 7	15 59	+13	21·8	25·8
Leninrad	47·4	40	8 56	+ 6	—	—	19·3	29·0
Makeyevka	53·8	53	e 7 21	-131	e 21 14	+248	28·3	35·3
Tucson	E. 60·3	290	—	—	—	—	e 27·3	—
La Paz	61·1	218	10 26	+ 6	—	—	27·3	32·2
Victoria	62·0	312	19 13	†S	(19 13)	+25	30·4	33·0
Ekaterinburg	63·4	39	e 10 47	+13	e 19 34	+28	22·3	34·6
Baku	64·6	57	e 10 59	+17	19 45	+25	33·3	38·0
Irkutsk	84·7	24	e 10 20†	-146	—	—	49·3	—

Additional readings: Toledo iP = +5m.40s., MNW = +12·5m. Granada i = +6m.19s. = PR<sub>2</sub> -5s., and +7m.11s. Almeria MN = +13·8m. Alicante MN = +12·0m. Kew MN = +14·2m. Fordham eN = +9m.14s.; all readings are given simply as eN. Paris eP = +7m.29s. = PR<sub>1</sub> +4s., MN = +14·3m. Uccle PR<sub>1</sub> = +7m.47s. De Bilt MN = +16·4m., MZ = +18·9m. Strasbourg ePR<sub>1</sub> = +8m.13s. ePR<sub>2</sub> = +8m.32s. SR<sub>1</sub> = +15m.7s., MN = +19·9m. Hamburg eN = +15m.45s. = PR<sub>2</sub> -8s., MN = +19·3m., MZ = +19·9m. Florence eP = +8m.50s. Ann Arbor eN = +15m.14s. and +15m.50s., eN = +15m.14s. = SR<sub>1</sub> -24s., and +15m.50s. = SR<sub>2</sub> -26s. Rocca di Papa ePE = +7m.34s., PR<sub>1</sub> = +7m.59s., eS<sub>1</sub> = +13m.22s. Pulkovo iSR<sub>1</sub> = +19m.44s., MZ = +29·0m. Leninrad MN = +25·8m.; is L = SR<sub>1</sub> +14s.† Makeyevka MN = +30·7m. Ekaterinburg MN = +34·9m., MZ = +37·3m. Baku MZ = +45·4m.

July 31d. Readings also at 0h. (Irkutsk), 1h. (Ekaterinburg, Makeyevka, Pulkovo, Leninrad, and Granada), 3h. (near Irkutsk), 5h. (Ekaterinburg and Pulkovo), 6h. (Granada), 9h. (near Mizusawa), 14h. (Tokyo), 17h. (Vienna), 18h. (Kucino and near Algiers), 20h. (Uccle), 21h. (near Tacubaya), 23h. (Granada).

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Aug. 1d. Readings at 0h. (Strasbourg and near Zurich), 2h. (near Almeria and Granada), 5h. (Granada, near Tacubaya, near Victoria, and Spokane), 6h. (Toronto, Ottawa, Ithaca, Fordham, and Baku), 10h. (near Athens), 11h. (Azores and Athens), 14h. (Riverview), 15h. (Tokyo and near Batavia), 20h. (Tokyo (2)).

**Aug. 2d. 5h. 1m. 21s. Epicentre 13°5N. 125°0E.**

(as on 1917 Feb. 25d.).

A = -558, B = +797, C = +233; D = +819, E = +574;  
G = -134, H = +191, K = -972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4.1	285	11 1	- 3	(11 54)	+ 1	11.9	—
Taihoku	12.0	344	12 59	0	5 10	- 9	7.5	8.6
Hong Kong	13.6	312	3 14	- 7	(5 27?)	-31	5.4?	7.6
Amboina	17.4	169	14 10	0	15 47	?	17.5	—
Zi-ka-wei	18.0	350	14 20	+ 3	17 39	- 1	11.1	12.0
Phu-Lien	19.0	295	e 4 24	- 5	17 51	-11	9.2	12.4
Nagasaki	19.8	12	4 46	+ 7	(8 25)	+ 6	8.4	8.6
Hukuoka	20.7	13	5 0	+11	(8 45)	+ 7	8.8	9.4
Sumoto	22.7	22	5 16	+ 3	(9 31)	+12	9.5	10.5
Kobe	23.1	22	5 25	+ 7	(9 37)	+10	9.6	10.2
Osaka	23.2	22	4 47	-32	(9 37)	+ 8	9.6	10.2
Nagoya	24.2	24	5 37	+ 7	(9 58)	+10	10.0	—
Batavia	26.7	224	i 5 45	-10	110 30	- 5	—	—
Malabar	27.0	221	i 6 1	+ 3	—	—	14.6	—
Mizusawa	E. 29.2	26	6 16	- 4	12 26	+66	18.4	—
	N. 29.2	26	6 17	- 3	12 28	+68	18.4	—
Calcutta	E. 35.9	290	7 59	+38	13 15	+ 6	19.2	—
	N. 35.9	290	7 33	+12	13 25	+16	19.0	—
Otomari	36.4	22	e 7 23	- 2	—	—	14.8	—
Irkutak	42.2	343	18 2	-10	14 24	-14	21.6	26.7
Hyderabad	44.9	283	e 8 21	-11	14 57	-17	23.0	28.4
Colombo	45.0	266	8 9	-24	14 59	-16	26.6	35.6
Kodaikanal	46.6	371	15 39	?	(15 39)	+ 3	27.4	35.6
Simla	E. 47.2	302	e 8 27	-21	15 27	-17	—	30.6
	N. 47.2	302	e 8 57	+ 9	15 33	-11	25.2	25.6
Adelaide	50.1	167	8 19?	-49	i 16 15	- 5	25.8	34.2
Bombay	50.3	284	10 28	+79	16 10	-13	21.8	34.5
Riverview	53.5	154	e 9 36	+ 6	e 16 52	-11	e 24.5	28.2
Sydney	53.5	154	8 21	-69	17 9	+ 6	27.0	28.4
Melbourne	54.6	161	e 6 15	-202	i 17 15	- 1	—	31.9
Ekaterinburg	64.8	328	110 48	+ 4	i 19 25	+ 2	21.6	36.6
Baku	70.1	310	i 11 22	+ 4	i 20 36	+ 9	34.6	39.3
Wellington	71.5	143	—	—	e 20 32	-12	e 28.6	—
Honolulu	E. 73.2	72	11 48	+11	e 21 15	+11	e 33.9	40.0
	N. 73.2	72	e 11 54	+17	e 21 39	+35	e 35.3	39.9
Piatigorak	74.9	314	11 23	-25	20 50	-35	—	37.6
Makeyevka	78.0	318	e 12 8	+ 1	21 42	-18	34.6	46.3
Pulkovo	80.7	329	i 12 22	- 1	i 22 26	- 5	38.6	48.5
Leningrad	80.7	329	12 23	0	i 22 29	- 2	38.0	48.4
Helwan	88.4	300	e 12 51	- 4	23 18	[+13]	—	58.5
Lemberg	88.6	320	e 12 3	-54	e 23 15	[+ 9]	e 49.2	58.4
Upsala	86.8	332	e 12 52	- 6	e 23 16	[+ 8]	e 43.6	52.2
Athens	90.4	310	13 26	+ 8	e 23 36	[+ 6]	35.2	66.5
Budapest	90.6	320	e 13 9	-10	e 24 9	-11	—	55.8
Vienna	91.9	320	e 13 22	- 4	24 17	-17	—	53.6
Bergen	92.0	335	—	—	—	—	—	—
Graz	92.9	321	e 14 8	+36	e 24 41	- 3	e 48.6	—
Zagreb	93.1	319	e 13 26	- 7	e 23 57	[+10]	e 50.4	59.9
Hamburg	93.2	327	e 16 39?	?	e 23 59	[+12]	e 51.4	56.8
Victoria	E. 93.6	399	e 13 35	+ 1	24 7	[+12]	e 47.6	55.6
Venice	95.8	320	e 13 55	+ 7	19 21	[+17]	41.1	55.4
Hohenheim	E. 95.9	324	e 13 55	+ 7	e 24 12	[+10]	e 31.9	58.2
Pompeii	96.0	315	e 17 4	?	e 24 14	[+12]	—	—
De Bilt	96.5	328	e 13 58	+ 6	e 24 15	[+10]	e 46.6	60.1
Strasbourg	96.9	324	e 13 40	-14	e 24 14	[+ 7]	39.6	58.1
Rocca di Papa	96.9	316	e 14 52	+53	e 24 39	[+32]	e 55.6	64.6
Zurich	97.0	322	e 14 17	+23	e 24 9	[+ 1]	—	—
Florence	97.0	318	e 17 9	?	25 11	-15	48.6	54.0

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.		m. s.	s.	m.	m.
Dyce	97-0	336	—	—	e 25 16	-10	48-2	52-8
Uccle	97-6	327	—	—	e 24 23	[+12]	e 46-6	53-8
Edinburgh	98-3	333	—	—	e 24 39?	[+24]	47-6	57-2
Besançon	98-6	324	—	—	—	—	52-6	58-6
Moncalieri	98-6	320	14 11	+ 8	24 9	[- 8]	48-2	59-5
Stonyhurst	99-2	331	e 13 59	- 7	24 29	[+ 9]	—	—
Paris	99-7	326	e 14 14	+ 5	e 24 34	[+11]	50-6	57-6
Kew	99-7	330	e 14 0	— 9	e 24 30	[+ 7]	47-6	59-7
Bidston	99-8	331	18 12	?PR <sub>1</sub>	e 31 25	?	47-1	57-2
Barcelona	104-0	320	e 18 32	?PR <sub>1</sub>	e 29 58	?	e 47-5	61-2
Tortosa	E. 105-3	320	e 18 16	?PR <sub>1</sub>	e 24 56	[+ 7]	e 40-6	65-5
Algiers	105-8	326	e 13 56	-42	24 56	[+ 5]	44-6	64-6
Alicante	107-4	320	e 19 7	?PR <sub>1</sub>	e 29 43	+158	55-2	65-7
Toledo	108-7	332	e 18 56	?PR <sub>1</sub>	e 29 22	+126	e 42-6	69-2
Almeria	109-4	320	19 8	?PR <sub>1</sub>	e 29 23	+120	—	62-8
Tucson	E. 109-7	49	—	—	e 26 59	-26	55-7	60-7
Granada	110-0	320	i 19 12	?PR <sub>1</sub>	e 29 18	+110	e 55-2	69-0
Malaga	110-8	320	e 18 45	[+21]	e 29 31	+116	e 36-6	42-9
Cape Town	111-0	238	—	—	—	—	—	64-6
San Fernando	112-1	320	19 17	?PR <sub>1</sub>	31 59	?	58-6	64-6
Lisbon	112-5	322	—	—	i 23 31	?	—	62-5
Chicago	117-1	—	—	—	25 51	[+ 5]	e 58-0	62-8
Ottawa	118-2	15	e 20 12	?PR <sub>1</sub>	e 30 12	?	e 46-6	66-3
Ann Arbor	118-3	13	—	—	—	?	e 55-8	—
Toronto	N. 118-7	20	20 17	?PR <sub>1</sub>	e 30 13	?	45-6	73-6
Ithaca	120-7	18	—	—	—	?	57-6	—
Harvard	E. 122-2	15	—	—	—	?	e 49-8	—
Fordham	122-9	17	e 20 33	?PR <sub>1</sub>	e 30 31	?	45-4	68-2
La Plata	158-4	173	—	—	—	?	70-2	—
La Paz	166-9	105	20 27	[+14]	e 33 9	?PR <sub>2</sub>	80-6	110-0
Sucre	168-7	121	20 50	[+36]	34 59	?	78-6	92-4

Additional readings: Taihoku LN = +7.6m, MN = +8.0m. Zi-ka-wei  
 SR<sub>1</sub>E = +7m.49s, MN = +12.2m. Phu-Lien MN = +9.4m. Nagasaki  
 MN = +12.4m. Hukuoka MN = +9.1m. Sumoto MZ = +10.7m.  
 Osaka MN = +11.5m. Batavia N = +6m.44s. =PR<sub>1</sub>+9s. Irkutsk  
 SR<sub>2</sub> = +17m.54s. =SR<sub>1</sub>+22s., MZ = +26.9m. Adelaide PR<sub>1</sub> =  
 +10m.39s., iSR<sub>1</sub>? = +19m.59s., MN = +33.6m. Riverview eS =  
 +17m.7s. =S+4s., MN = +33.2m. Bombay: Is L = SR<sub>2</sub>? Ekaterinburg  
 iPR<sub>2</sub> = +15m.0s., MZ = +38.6m. Baku SR<sub>1</sub> = +25m.45s., iSR<sub>1</sub> =  
 +30m.57s. =SR<sub>2</sub>+59s., MN = +37.3m, MZ = +44.8m. Wellington: Is  
 L = SR<sub>2</sub>? Honolulu P<sub>0</sub>PE = +12m.12s., P<sub>0</sub>PN = +12m.16s., ePR<sub>1</sub>E =  
 +15m.3s., ePR<sub>1</sub>N = +16m.0s. =PR<sub>2</sub>-35s., ePR<sub>2</sub>N = +16m.51s., ePR<sub>2</sub>E =  
 +17m.9s. =PR<sub>2</sub>-15s., PSE = +21m.59s., eSR<sub>1</sub>E = +25m.39s., eSR<sub>1</sub>N =  
 +26m.49s., SR<sub>1</sub>E? = +26m.57s. and +29m.57s. =SR<sub>2</sub>+21s., SR<sub>1</sub>N =  
 +31m.15s. =SR<sub>2</sub>+7s. Platigorsk PR<sub>1</sub> = +15m.8s., SR<sub>1</sub> = +25m.58s.,  
 SR<sub>2</sub> = +30m.6s. Makeyevka PS = +22m.29s., SR<sub>1</sub> = +27m.19s., i =  
 +30m.39s. =SR<sub>2</sub>-27s., MN = +46.6m., MZ = +52.0m. Fulkovo PR<sub>1</sub> =  
 +15m.43s., PR<sub>2</sub> = +18m.48s., SR<sub>2</sub> = +31m.51s., SR<sub>2</sub> = +34m.9s., MN =  
 +45.8m., MZ = +48.4m. Leningrad PR<sub>1</sub> = +15m.41s., PR<sub>2</sub> = +17m.59s.  
 PR<sub>2</sub> = +18m.49s., SR<sub>2</sub> = +31m.9s., iSR<sub>2</sub> = +34m.21s., MN = +45.9m., MZ =  
 +51.7m. Upsala MN = +49.3m. Athens MN = +57.7m.; Is L = SR<sub>2</sub>?  
 Budapest MN = +53.4m. Vienna PR<sub>1</sub> = +17m.58., iN = +28m.35s.  
 Graz MN = +52.6m. Zagreb ePR<sub>1</sub> = +17m.22s., e = +25m.47s., eL =  
 +53.2m. Hamburg eE = +28m.3s. Hohenheim eE = +20m.59s. =  
 PR<sub>2</sub>+39s.; Is L = SR<sub>1</sub>? De Bilt MN = +56.4m., MZ = +58.8m.; epicentre  
 14° 38'N. 125° 4'E. Strasbourg PS = +25m.12s. =S-13s., MN =  
 +52.3m., MZ = +58.6m.; Is L = SR<sub>2</sub>? Rocca di Papa eP = +17m.46s. =  
 PR<sub>1</sub>-7s. and +17m.48s. =PR<sub>1</sub>-5s., PR<sub>2</sub> = +21m.21s. =PR<sub>2</sub>-40s., eSN =  
 +24m.47s. Zurich e = +17m.37s. =PR<sub>2</sub>-17s. Dyce e = +24m.19s.  
 (O-C. = [+11]). Uccle ePR<sub>1</sub> = +17m.56s., MN = +54.0m. Monca-  
 lieri MN = +59.8m. Paris MN = +52.6m. Barcelona MN = +61.4m.  
 Toledo MNW = +64.4m. Almeria MN = +68.8m. Tucson ePR<sub>1</sub>E =  
 +18m.59s., ePR<sub>1</sub>N = +19m.14s., SN = +27m.4s., PSE? = +28m.39s.,  
 FPSE = +30m.37s., SR<sub>1</sub>E = +34m.42s. Granada i = +21m.39s. and  
 +22m.50s. =PR<sub>2</sub>+27s., PS = +30m.35s. Malaga readings have been in-  
 creased by 1h. San Fernando MN = +66.6m. Chicago PSE =  
 +29m.57s., SR<sub>1</sub>E = +36m.15s., SR<sub>2</sub>E = +40m.57s., SR<sub>2</sub>E = +43m.51s.  
 Ottawa i = +36m.37s. =SR<sub>1</sub>+13s., MN = +72.4m. Toronto eE =  
 +26m.9s. Harvard eSR<sub>1</sub>E = +36m.33s. Fordham ePR<sub>1</sub>N =  
 +25m.36s. =S-17s., ePR<sub>2</sub>N = +26m.53s., eSR<sub>1</sub>N = +35m.38s., eE =  
 +37m.30s. =SR<sub>1</sub>+7s., SR<sub>2</sub>N = +40m.45s., MN = +72.8m. La Paz  
 SE = +34m.4s. Sucre PR<sub>1</sub> = +25m.42s., PR<sub>2</sub> = +29m.9s.?, SR<sub>2</sub> =  
 +51m.20s. =SR<sub>2</sub>-90s.

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Aug. 2d. 12h. 41m. 0s. Epicentre 13°·5N. 125°·0E. (as at 5h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4·1	285	e 1 1	- 3	(i 1 53)	0	1·9	—
Taihoku	12·0	344	e 3 3	+ 4	5 25	+ 6	7·6	—
Hong Kong	13·6	312	3 15	- 6	—	—	—	10·7
Zi-ka-wei	18·0	350	i 4 19	+ 2	17 51	+11	—	20·6
Phu-Lien	19·0	295	e 4 25	- 4	e 7 52	-10	9·2	—
Sumoto	22·7	22	9 35	?S	(9 35)	+16	14·3	—
Osaka	23·2	22	5 31	+12	(9 49)	+20	9·8	11·7
Batavia	26·7	224	5 54	- 1	i 11 38	+63	—	—
Irkutsk	42·2	343	8 2	-10	e 14 32	- 6	22·0	—
Adelaide	50·1	167	—	—	—	—	e 36·6	57·2
Riverview	53·5	154	—	—	e 13 18	?PR <sub>2</sub>	e 23·0	23·1
Sydney	53·5	154	16 54	?S	(16 54)	- 9	23·4	24·7
Melbourne	54·6	161	—	—	i 17 0	-16	i 21·3	31·7
Ekaterinburg	64·8	328	e 10 49	+ 5	19 27	+ 4	22·0	36·4
Apia	68·3	111	—	—	—	—	e 36·0	—
Baku	70·1	310	11 22	+ 4	20 39	+12	34·5	43·8
Wellington	71·5	143	—	—	e 16 5	?PR <sub>2</sub>	e 35·2	38·2
Kucino	77·2	324	—	—	21 49	- 2	40·5	42·5
Makeyevka	78·0	318	e 12 7	0	e 21 58	- 2	36·0	46·3
Pulkovo	80·7	329	12 24	+ 1	22 25	- 6	39·5	51·0
Leningrad	80·7	329	i 12 26	+ 3	22 28	- 3	43·5	51·2
Upsala	86·8	332	—	—	e 23 26	-13	e 47·0	—
Hamburg	93·2	327	—	—	e 32 0?	?	e 49·0	56·0
Victoria	93·6	39	17 25	?PR <sub>1</sub>	—	—	—	—
De Bilt	96·5	328	—	—	—	—	e 49·0	58·9
Strasbourg	96·9	324	—	—	—	—	45·0	58·0
Uccle	97·6	327	—	—	e 27 0?	?	e 51·0	54·0
Edinburgh	98·3	333	—	—	—	—	50·0	—
Moncalieri	98·6	320	e 26 15	?	41 37	?	53·2	—
Paris	99·7	326	—	—	—	—	e 54·0	—
Kew	99·7	330	—	—	—	—	e 44·0	—
Granada	110·0	320	e 19 23	?PR <sub>1</sub>	i 29 15	+107	e 57·7	65·0
San Fernando	112·1	320	—	—	—	—	—	64·0
Ottawa	118·2	15	—	—	e 30 12	?	e 52·5	—
Toronto	118·7	20	—	—	—	—	e 56·0	—
Fordham	122·9	17	—	—	—	—	e 62·8	—

Additional readings: Osaka MN = +12·2m. Adelaide L = +46·5?m.  
 Riverview e = +20m.12s., MN = +32·5m. Are the readings 3 minutes too large? Then +10m.18s. = P +48s., +17m.12s. = S +9s., and L may be SR<sub>1</sub>.  
 Ekaterinburg MZ = +38·4m. Baku MN = +39·3m.  
 SR<sub>1</sub> = +22m.25s. Kucino eSR<sub>1</sub> = +30m.35s. Makeyevka e = +28m.43s., SR<sub>1</sub> = +31m.31s., MN = +46·6m. Pulkovo SR<sub>1</sub> = +34m.6s., MN = +45·8m., MZ = +51·0m. Leningrad MZ = +51·4m., MN = +51·8m. Hamburg MN = +54·0m. De Bilt MN = +56·2m., MZ = +58·8m. San Fernando MN = +65·0m.

Aug. 2d. Readings also at 0h. (near Nagasaki), 1h. (near Zagreb), 2h. (Ekaterinburg, Baku, and near La Paz), 6h. (Manila (2)), 7h. (Hong Kong, De Bilt, and near Manila), 8h. (Hong Kong, De Bilt, Uccle, Taihoku, and Pulkovo), 10h. (Tokyo), 12h. (Dyce), 13h. (Riverview), 14h. (Paris and Manila), 16h. and 17h. (Manila), 18h. (Pulkovo, Baku, Ekaterinburg, Leningrad, Irkutsk, and near Mizusawa), 19h. (Irkutsk), 20h. (Sucre), 21h. (Manila).

Aug. 3d. 3h. 16m. 12s. Epicentre 22°·5S. 173°·5W. (as on 1921 Jan. 9d.).

A = -.918, B = -.104, C = -.383; D = -.113, E = +.994;  
 G = +.381, H = +.043, K = -.924.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	8·9	11	2 35	+20	4 41	+40	5·4	6·5
Wellington	21·2	205	—	—	(e 8 48?)	0	e 8·8	13·6
Riverview	33·0	242	e 7 16	+20	—	—	e 14·4	19·2
Sydney	33·0	242	11 54	?S	(11 54)	-30	16·5	18·0
Melbourne	38·6	237	17 30	-13	—	—	i 19·3	25·8
Adelaide	43·4	242	—	—	15 6?	+12	17·3?	22·9

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Honolulu	E.	46.4	20	—	—	e 15 30	- 3	21.2	22.7
	N.	46.4	20	—	—	e 15 18	-15	21.3	25.1
Manila		74.1	294	e 11 16	-27	—	—	—	—
Hong Kong		83.4	298	22 40	?S	(22 40)	-21	—	—
Victoria		83.9	31	22 58	?S	(22 58)	-10	45.6	54.2
La Paz		97.2	111	—	—	—	—	55.6?	—
Chicago		101.9	49	—	—	—	—	—	53.0
Irkutsk		103.1	322	e 16 48?	?	e 24 31	[- 7]	—	—
Toronto		108.1	49	—	—	e 28 33	+82	56.8	—
Ottawa		111.1	48	—	—	e 26 23	[+69]	e 54.2	—
Fordham		111.6	53	—	—	e 27 4	-38	i 54.5	57.9
Ekaterinburg		128.0	326	e 19 1	[-13]	e 20 45	?PR <sub>1</sub>	21.8	—
Leningrad		139.0	342	e 19 9	-29	e 22 58	?PR <sub>1</sub>	—	—
Pulkovo		139.2	342	e 19 11	[-27]	e 22 15	?PR <sub>1</sub>	—	—
Baku		139.4	307	e 22 12	?PR <sub>1</sub>	—	—	—	—
Makeyevka		144.2	323	e 19 26	[-21]	—	—	—	—
Hamburg		149.1	356	e 19 48	- 6]	—	—	—	—
Kew	Z.	150.6	9	e 19 42	-15]	—	—	—	—
Uccle		151.7	3	e 19 42	-16]	—	—	—	—
Vienna	Z.	153.1	345	e 19 44	-16]	—	—	—	—
Paris		153.5	6	e 19 47	-13]	—	—	—	—
Strasbourg	Z.	153.9	358	e 19 48	-13]	—	—	—	—
Algiers		155.4	7	e 20 4	+ 2]	e 29 26	?	—	—
Zagreb		155.5	344	e 20 3	+ 1]	—	—	—	—
Rocca di Papa		160.1	347	e 20 27	+19]	—	—	—	—
Granada		163.0	29	e 19 58	[-12]	—	—	—	—

Additional readings: Wellington MN = +11.6m. Riverview MN = +17.9m.  
 Is L = SR<sub>1</sub>? Honolulu PR<sub>1</sub>N = +10m.15s., PR<sub>1</sub>E = +10m.18s., S<sub>0</sub>SN? =  
 +17m.48s., SR<sub>1</sub> = +19m.18s., SR<sub>2</sub>E = +20m.10s. Victoria PN =  
 +23m.8s. La Paz: the L is given as S of the following shock. Toronto  
 eN = +53m.33s. Ottawa eN = +27m.11s. = S -27s., eE = +28m.56s.  
 Fordham eN = +28m.26s. and many other values. Ekaterinburg: Is L =  
 PR<sub>1</sub>? Leningrad e = +22m.10s. = PR<sub>1</sub> -18s. Strasbourg ePN =  
 +20m.3s. = [P] +3s. Rocca di Papa ePN = +20m.31s. and +24m.21s. =  
 PR<sub>1</sub> -18s. Granada iP = +20m.13s., i = +22m.25s., and +24m.45s. =  
 PR<sub>1</sub> -11s., e = +30m.1s. and +31m.51s. = PR<sub>2</sub> -13s.

**Aug. 3d. 3h. 41m. 30s. Epicentre 22°0N. 121°0E.**

(as on 1917 Jan. 6d.).

A = -478, B = +795, C = +375; D = +857, E = +515;  
 G = -193, H = +321, K = -927.

Epicentre deduced by comparison with 22°N. 123°5E. of June 25d. and 23°N.  
 121°7E. of July 15d.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Taihoku		3.1	9	2 5	+76	(2 51)	+85	2.8	4.2
Hong Kong		6.3	275	(1 47)	+11	—	—	3.2	5.7
Manila		7.4	180	e 1 45	- 7	13 30	+ 9	13.9	—
Zi-ka-wei		9.2	6	2 20	+ 1	e 4 21	+13	—	7.1
Nagasaki		13.3	34	3 13	- 4	—	—	7.0	9.7
Phu-Lien		13.5	267	e 3 26	+ 6	6 30	+34	7.5	11.1
Hukuoka	N.	14.2	34	3 28	- 1	—	—	8.1	9.8
Sumoto		17.3	42	4 4	- 5	(7 32)	+ 7	7.5	15.3
Osaka		17.9	42	4 12	- 4	(8 2)	+24	8.0	13.2
Nagoya		19.2	43	e 4 24	- 7	—	—	—	—
Mizusawa		24.2	41	5 20	-10	9 30	-18	13.7	—
Alboino		26.6	164	5 41	-13	110 37	+ 4	—	—
Calcutta	E.	30.2	277	6 37	+ 7	13 47	+130	20.1	—
	N.	30.2	277	6 22	- 8	13 38	+121	20.4	—
Otomari		30.3	30	6 22	- 9	(11 2)	-37	11.0	—
Batavia		31.5	208	6 15	-30	—	—	16.5	—
Malabar		32.1	207	6 31	-17	—	—	—	—
Irkutsk		32.9	341	e 6 45	-13	12 8	-14	17.5	21.6
Simla	E.	40.0	295	e 7 42	-13	14 0	- 7	23.1	25.6
	N.	40.0	295	e 8 18	+23	14 6	- 1	23.6	25.3
Hyderabad		40.2	274	7 52	- 5	14 28	+18	22.1	26.8

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	42.5	258	8 30	+15	15 40	+58	26.8	28.8
Kodaikanal	43.3	264	10 54	+PR <sub>2</sub>			21.0	
Bombay	45.1	275	e 9 37	+63	15 12	-4	e 19.7	31.8
Ekaterinburg	55.6	325	9 50	+7	1 17 38	+9	e 19.5	36.6
Baku	61.9	307	i 10 34	+10	19 8	+21	31.5	42.8
Riverview	62.8	152					e 30.0	35.9
Piatigorsk	66.4	310	i 10 42	-12	19 32	-10		40.5
Makeyevka	69.3	316	11 17	+4	1 20 28	+10	32.5	46.3
Pulkovo	71.4	329	i 11 31	+5	1 20 53	+10	36.8	46.4
Leningrad	71.5	329	i 11 32	+5	1 20 54	+10	35.0	47.2
Honolulu	E. 74.2	73	11 55	+12	21 28	+12	35.3	42.0
	N. 74.2	73			21 30	+14	36.0	
Upsala	77.6	330	e 12 2	-3	e 21 58	+2	e 38.5	43.1
Budapest	81.6	319	12 28	0	22 53	+11	e 43.5	55.8
Athens	82.2	309	e 12 32	+1	22 42	-6	e 33.2	50.3
Bergen	82.7	334					e 38.5	
Vienna	82.9	320	e 12 34	-1	23 6	+10	e 41.5	45.5
Graz	84.0	320	e 12 51	+9	e 23 6	-2	41.5	58.6
Hamburg	84.1	327	e 12 40	-3	e 23 7	-2	e 41.5	46.5
Zagreb	84.2	318	e 12 43	0	e 23 8	-2		47.8
Venice	86.6	319	e 13 7	+10	23 14	-23		
Hohenheim	E. 86.9	323	e 12 36	-22	e 23 44	+4	e 44.8	52.3
De Bilt	87.3	326	e 13 6	+5	e 23 29	-15	e 40.5	49.4
Pompeii	87.4	313	e 13 4	+3	e 23 34	-11		
Dyce	87.7	333	e 13 4	+1	e 23 39	-10	40.3	50.8
Zurich	87.7	321	e 12 54	-9	i 23 30	-19		
Strasbourg	87.8	323	e 12 58	-6	23 48	-2	38.5	58.8
Florence	88.1	317	13 0	-6	23 50	-3	42.5	51.0
Rocca di Papa	88.2	315	e 13 2	-4	e 22 55	-59	e 50.2	58.0
Uccle	88.4	325	e 13 4	-3	e 23 36	-20	e 40.5	49.1
Edinburgh	89.0	331	e 14 30?	+80	i 24 6	+3	42.5	51.7
Besançon	89.6	322					48.5	
Moncalieri	89.7	320	e 12 57	-17	23 53	-18	45.3	52.9
Stonyhurst	90.0	330	e 13 48	+32	24 10	-4		51.8
Kew	90.4	329	e 13 11	-7	e 23 49	-29	40.5	51.1
Bidston	90.5	330	e 13 40	+21	e 23 19	[-12]	38.4	54.2
Paris	90.6	325	e 13 21	+2	e 23 50	[+18]	46.5	48.5
Barcelona	E. 95.0	319	e 17 43	+PR <sub>1</sub>	e 24 10	[+13]	e 48.9	53.8
Tortosa	96.3	320	e 15 5	+74	24 17	[+13]	e 49.5	61.3
Algiers	97.0	315	e 13 54	0	24 20	[+12]	e 42.5	54.5
Alicante	98.5	318					e 53.9	62.0
Toledo	99.7	320	e 17 37	+PR <sub>1</sub>				59.1
Granada	101.1	319	18 14	+PR <sub>1</sub>	i 27 12	+66	37.5	51.0
Rio Tinto	102.6	320	22 30?	+PR <sub>2</sub>				66.5
San Fernando	103.2	320			25 4	[+25]	53.5	65.5
Chicago	110.9	22			e 29 30?	+114	e 52.7	62.8
Ottawa	110.9	11			e 32 0	?	e 50.5	
Toronto	N. 111.7	16					63.1	66.9
Ann Arbor	111.7	19			e 28 42	+59	e 61.4	
Harvard	114.6	10					51.9	70.0
Fordham	115.6	12			e 36 26	+SR <sub>1</sub>		74.8
La Plata	167.1	184					60.3	
La Paz	169.8	59	20 25	[+10]	30 20	?	102.5	107.1
Sucre	173.4	64	20 32	[+16]	e 32 41	?	103.0	110.7

Additional readings: Tathoku MN = +3.4m. Hong Kong P is given as  
 SR<sub>1</sub> for the previous shock. Zi-ka-wei MN = +8.0m. Phu-Lien MN =  
 +11.8m. Osaka MN = +14.4m. Amboina i = +6m.6s. = PR<sub>1</sub> -28s.  
 Batavia iP = +6m.28s. Irkutsk MZ = +21.8m. Ekaterinburg MZ =  
 +34.4m. Baku i = +10m.41s., MN = +35.1m., MZ = +44.4m. River-  
 view MN = +37.8m. Piatigorsk PS = +20m.5s. Makeyevka PS =  
 +21m.8s. = [S] +1s., SR<sub>1</sub> = +25m.52s., SR<sub>2</sub> = +28m.50s., SR<sub>3</sub> = +30m.0s.,  
 MN = +41.4m., MZ = +43.2m. Pulkovo PR<sub>1</sub> = +16m.8s., PR<sub>2</sub> =  
 +17m.23s., PS = +21m.40s. = [S] +18s., SR<sub>1</sub> = +25m.54s., SR<sub>2</sub> = +29m.12s.,  
 SR<sub>3</sub> = +30m.54s., MN = +40.0m., MZ = +47.2m. Leningrad PR<sub>1</sub> =  
 +15m.52s., PS = +21m.42s. = [S] +22s., SR<sub>2</sub> = +29m.12s., MN = +40.3m.,  
 MZ = +47.2m. Honolulu SR<sub>1</sub>E = +26m.30s., eSR<sub>1</sub>E = +26m.41s.,  
 SR<sub>2</sub>N = +30m.30s., SR<sub>3</sub>E = +32m.48s., SR<sub>4</sub>N = +33m.0s. Upsala eLN =  
 +35.5m. Budapest MN = +59.2m. Athens eLN = +33.8m., MN =  
 +52.2m. Vienna MZ = +56.5m. Graz MN = +48.8m. Hamburg  
 MZ = +53.5m. Zagreb ePR<sub>1</sub> = +16m.9s. Hohenheim eE = +34m.50s.  
 De Bilt MN = +49.6m. Strasbourg ePR<sub>1</sub> = +16m.36s., ePS = +24m.46s.,  
 MN = +50.2m., MZ = +59.0m. Rocca di Papa ePZ = +13m.8s., ePE =  
 +13m.11s., ePN = +13m.16s., eSE = +22m.38s. Uccle ePR<sub>1</sub> = +16m.36s.  
 eSR<sub>1</sub> = +29m.45s. Moncalieri L = +35.1m. = SR<sub>2</sub> +30s., MN = +53.2m.

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Kew PR<sub>1</sub> = +16m.50s. Paris PR<sub>1</sub> = +17m.0s. Algiers PR<sub>1</sub> = +17m.45s. Alicante MN = +70.5m. Granada i = +28m.47s. MZ = +68.6m. San Fernando MN = +68.5m. Chicago eE = +33m.52s. Ann Arbor eE = +31m.30s., eN = +39m.24s. Harvard SR<sub>1</sub>N = +34m.36s. and +36m.54s. Fordham ME = +39.4m. La Paz gives L and M as for a separate shock for which P = +62m.5s. But does S belong to the previous shock (3h.16m.12s.) as there indicated? Sucre PR<sub>1</sub>E = +15m.20s. eP = +62m.13s. Does S here also belong to previous shock? (See La Paz).

Aug. 3d. 9h. 26m. 8s. Epicentre 35°·5N. 140°·0E. (as on 1926 April 18d.).

A = -·624, B = +·523, C = +·581; D = +·643, E = +·766;  
G = -·445, H = +·373, K = -·314.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo	0·3	312	0 16	+11	—	—	—	—
Nagoya	2·5	262	0 43	+4	—	—	1·3	1·8
Mizusawa	3·7	14	1 3	+5	1 46	+4	—	—
Osaka	3·8	259	1 0	+1	—	—	2·0	2·7
Kobe	4·1	266	1 5	+1	(2 2)	+9	2·0	2·2
Toyouka	4·2	273	e 1 39	+34	—	—	e 2·5	2·7
Sumoto	4·4	256	1 7	—	—	—	—	2·2 2·3
Matuyama	6·2	256	e 1 51	+16	—	—	e 3·5	3·6
Hukuoka	8·1	259	2 6	+3	—	—	—	4·1 4·4
Nagasaki	8·9	255	2 10	—	4 10	+9	4·6	5·0
Zi-ka-wei	16·1	260	13 47	-6	6 54	-3	—	—
Taihoku	19·0	242	e 5 27	+58	—	—	—	—
Agana	22·4	168	—	—	—	—	e 22·6	—
Irkutsk	30·3	315	e 6 10	-21	e 10 59	-40	18·9	—
Ekaterinburg	55·4	320	19 37	-5	1 17 15	-11	18·9	24·4
Kucino	67·4	324	e 10 57	-3	3 20 17	+22	35·5	41·6
Baku	68·0	305	e 11 1	-3	e 19 49	-13	33·9	43·2
Leningrad	68·6	330	1 11 4	-4	1 20 4	-5	31·4	45·8
Pulkovo	68·7	330	1 11 5	-4	1 20 3	-7	33·4	43·9
Makeyevka	71·5	318	e 11 20	-7	e 20 34	-10	33·9	—
Vienna	82·4	326	e 12 23	-9	—	—	—	—
De Bilt	84·0	334	12 32	-10	22 50	-18	e 43·9	—
Zagreb	84·3	324	e 12 33	-11	e 22 34	-37	—	—
Uocle	85·3	334	—	—	e 22 57	-25	e 41·9	—
Strasbourg	85·8	330	e 12 37	-15	e 23 0	-28	e 33·9	—
Venice	86·2	326	e 7 58	?	16 55?	?	—	—
Zurich	86·4	330	e 13 0	+5	—	—	—	—
Moncalieri	88·7	329	e 12 31	-38	23 15	[- 5]	34·6	—
Rocca di Papa	89·0	324	e 13 11	+1	e 23 19	[- 3]	e 41·0	—
Algiers	97·4	326	e 13 7	-49	e 23 40	[-30]	—	—
Almeria	99·6	331	—	—	—	—	—	65·9
Granada	99·9	332	e 14 36	+26	e 26 13	+18	e 52·9	64·4
La Paz	148·5	60	19 55	[+ 1]	—	—	—	—

Additional readings: Nagoya MN = +2.0m. Mizusawa SN = +1m.47s.  
Osaka MN = +2.4m. Sumoto MZ = +2.5m. Zi-ka-wei PR<sub>1</sub> = +4m.6s.  
Irkutsk e = +14m.11s. Ekaterinburg MN = +30.9m., MZ = +35.9m.  
Baku MZ = +43.1m. Leningrad MN = +46.2m. Pulkovo PS = +20m.33s., MZ = +46.0m. Vienna PR<sub>1</sub> = +15m.35s. De Bilt ePR<sub>1</sub>Z = +15m.46s. Zagreb e = +15m.45s. Rocca di Papa e = +9m.56s.  
eE = +12m.56s., eN = +12m.57s., ePR<sub>1</sub>N = +16m.19s. Algiers PR<sub>1</sub> = +17m.34s. Granada i = +17m.49s. and +19m.55s.

Aug. 3d. 10h. 31m. 54s. Epicentre 2°·0S. 127°·3E.

(given by De Bilt).

A = -·606, B = +·795, C = -·035; D = +·795, E = +·606;  
G = +·021, H = -·028, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	1·9	153	11 22	+63	—	—	—	—
Manila	17·8	339	14 23	+8	17 59	+23	1 10 0	10·2
Malabar	20·3	254	14 41	-4	18 17	-12	—	—
Batavia	20·8	258	14 42	-9	18 30	-10	—	—
Hong Kong	27·5	333	5 56	-7	(10 36)	-14	10·6	12·8
Taihoku	27·6	348	7 13	+69	(11 31)	+39	11·5	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	30.5	319	e 6 19	-14	e 11 21	-22	17.1	—
Perth	31.8	200	e 6 26	-19	12 6	+1	18.0	18.9
Zi-ka-wei	33.7	353	1 6 54	-8	12 11	-25	—	—
Adelaide	34.6	165	e 6 34	-36	1 12 37	-12	16.8	20.9
Sumoto	37.1	10	7 36	+5	13 19	-6	19.5	—
Osaka	37.5	10	7 35	+1	13 3	-28	21.2	26.2
Nagoya	38.3	13	e 7 42	+2	—	—	—	—
Riverview	38.9	149	e 7 35	-10	e 13 18	-33	e 18.7	22.6
Sydney	38.9	149	e 6 18	-87	16 38	ISR <sub>1</sub>	21.3	23.1
Melbourne	39.3	159	e 7 42	-7	1 13 54	-2	1 19.0	22.2
Mizusawa	43.0	17	8 14	-4	14 50	+2	21.4	—
Calcutta	E. 45.2	308	7 19	-75	15 8	-10	—	—
	N. 45.2	308	7 44	-50	15 14	-4	—	—
Colombo	48.2	282	8 56	-1	15 56	0	18.9	28.4
Kodaikanal	51.1	286	(9 6)	-8	—	—	(22.8)	(35.0)
Hyderabad	51.9	295	9 13	-6	16 33	-10	26.1	30.2
Bombay	57.5	295	10 5	+9	17 40	-13	e 27.8	—
Irkutsk	57.7	345	10 3	+6	18 3	+8	29.1	39.1
Christchurch	57.8	144	e 10 12	+14	18 42	+46	31.7	37.7
Wellington	58.0	140	e 10 2	+3	18 2	+3	e 24.1	36.9
	E. 58.0	310	e 9 30	-29	18 0	+1	30.7	31.9
	N. 58.0	310	e 10 6	+7	18 0	+1	32.7	34.9
Honolulu	76.5	69	12 14	+16	1 22 7	+24	36.1	44.2
Ekaterinburg	79.2	330	1 12 18	+4	1 22 11	-3	24.1	50.1
Baku	81.8	312	1 12 31	+2	1 22 45	+1	39.6	45.8
Platigorsk	87.2	315	12 31	-29	22 55	[-15]	—	47.1
Makeyevka	91.1	320	e 13 13	-9	24 35	+10	43.1	55.6
Kucino	91.4	326	e 13 32	+9	23 51	[+15]	37.5	66.9
Leningrad	95.2	330	e 13 38	-6	1 24 12	[+14]	44.1	61.4
Pulkovo	95.3	330	e 13 34	-11	24 13	[+14]	45.7	62.6
Upsala	E. 101.5	331	e 18 15	IPR <sub>1</sub>	e 24 40	[+8]	e 52.1	60.1
Athens	E. 101.9	310	e 14 33	+13	1 24 43	[+8]	e 52.1	60.1
Budapest	103.7	320	19 39	IPR <sub>1</sub>	25 0	[+18]	e 52.1	50.7
Victoria	E. 104.2	40	18 51	IPR <sub>1</sub>	24 58	[+9]	e 52.1	65.1
Vienna	105.3	321	e 18 49	IPR <sub>1</sub>	24 58	[+12]	53.1	59.0
Graz	106.2	320	e 17 14	?	e 27 6	[+13]	—	—
Zagreb	106.2	316	e 18 6?	[-3]	25 6?	[+14]	e 52.1	57.1
Hamburg	107.5	326	e 19 7	IPR <sub>1</sub>	1 25 13	?	—	—
Venice	108.7	317	e 19 9	IPR <sub>1</sub>	20 46	?	—	—
Rocca di Papa	109.5	313	e 18 33	[+12]	e 23 47	?	e 54.1	59.3
Hohenheim	E. 109.6	321	e 19 22	IPR <sub>1</sub>	e 30 46	?	e 47.1	—
Florence	109.9	314	19 6	IPR <sub>1</sub>	28 36	+69	53.1	64.1
Zurich	N. 110.5	320	e 18 53	[+29]	—	—	—	—
Strasbourg	110.6	321	e 15 6?	+6	e 27 43	+10	48.1	59.6
De Bilt	110.8	325	14 57	-4	e 25 27	[+14]	e 50.1	59.0
Uccle	111.8	325	e 19 32	IPR <sub>1</sub>	e 27 54	+10	e 49.1	58.4
Dyce	111.9	333	—	—	—	—	52.3	58.1
Edinburgh	113.1	331	e 19 51	IPR <sub>1</sub>	1 25 46	[+24]	54.1	59.1
Paris	113.7	323	e 19 46	IPR <sub>1</sub>	e 28 11	+11	46.1	65.1
Stonyhurst	113.9	330	e 19 46	IPR <sub>1</sub>	—	—	58.1	62.1
Kew	114.0	328	e 19 50	IPR <sub>1</sub>	—	—	46.1	—
Bidston	114.5	330	19 46	IPR <sub>1</sub>	30 53?	?	36.2	61.9
Algiers	118.1	310	e 20 18	IPR <sub>1</sub>	33 22	?	e 59.1	75.1
Tortosa	E. 118.4	316	20 13	IPR <sub>1</sub>	—	?	e 58.1	82.8
Toledo	121.9	316	e 20 29	IPR <sub>1</sub>	—	?	—	61.4
Granada	122.9	313	1 20 51	IPR <sub>1</sub>	e 31 6	?	63.6	65.3
Rio Tinto	124.7	315	20 6?	IPR <sub>1</sub>	—	—	—	30.1
San Fernando	125.0	313	—	—	—	—	—	87.6
Chicago	E. 129.4	34	—	—	—	—	e 58.4	72.9
Ann Arbor	131.1	30	1 23 0	IPR <sub>1</sub>	—	—	e 64.0	—
Ottawa	132.1	20	e 21 56	IPR <sub>1</sub>	—	—	e 58.1	68.1
Toronto	N. 132.1	25	1 23 6	IPR <sub>1</sub>	—	—	65.1	72.1
Fordham	136.7	34	e 19 4	[-29]	—	—	e 70.7	73.5
La Plata	142.8	172	19 55?	[+10]	—	—	—	—
Sucre	155.6	150	e 20 20	[+17]	e 34 28	?	77.9	94.3
La Paz	156.0	141	20 16	[+13]	34 25	?	80.1	—

Additional readings and notes: Manila PSN = +6m.34s., PSE = +6m.40s., SR<sub>1</sub>N = +8m.23s., SR<sub>1</sub>E = +8m.28s., MN = +10.4m. Malabar and Batavia readings are all given for 11h. Perth PR<sub>1</sub> = +7m.15s., PR<sub>2</sub> = +7m.31s., FR<sub>2</sub> = +7m.46s., PS = +11m.28s., SR<sub>1</sub> = +15m.10s. Adelaide PR<sub>1</sub> = +7m.52s., ISR<sub>1</sub> = +16m.6s. Riverview ePR<sub>1</sub> = +9m.5s. and +9m.24s., FS = +13m.55s. and +16m.41s. = SR<sub>1</sub> + 13s., MN = +22.7m., MZ = +26.4m.; T<sub>1</sub> = 10h.32m.3s. Sydney PR<sub>1</sub> = +9m.0s. = PR<sub>1</sub> - 9s.

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SR<sub>1</sub> = +16m.36s. Melbourne i = +17m.24s. = SR<sub>2</sub> + 6s. Kodaikanal readings have been increased by 11m. Wellington i = +14m.22s. = PR<sub>2</sub> + 10s., MN = +33.3m.; is L = SR<sub>2</sub>? Honolulu P = +12m.32s., PR<sub>1</sub>E = +15m.10s., PR<sub>1</sub>N = +16m.43s., PR<sub>2</sub>N = +17m.6s., PR<sub>2</sub>N = +17m.22s., PSE = +22m.25s., S<sub>0</sub>SPE? = +23m.0s., IS<sub>0</sub>SPN = +23m.15s., PPSE = +23m.23s., eSR<sub>1</sub>N = +27m.16s., SR<sub>1</sub>E = +27m.36s., eSR<sub>2</sub>N = +31m.16s., SR<sub>2</sub> = +32m.42s., LN = +34.6m. Ekaterinburg MN = +41.0m., MZ = +57.2m. Baku i = +12m.42s., MN = +43.2m., MZ = +54.4m. Piatigorsk iPS = +23m.42s. = S - 1s. Makeyevka PR<sub>1</sub> = +16m.59s., S<sub>1</sub>P<sub>1</sub>S = +23m.45s. = [S] + 11s., PS = +25m.20s., SR<sub>2</sub> = +37m.30s. = SR<sub>2</sub> + 8s., MN = +50.8m., MZ = +53.6m. Kucino ePR<sub>1</sub> = +16m.54s., PR<sub>2</sub> = +20m.12s., S<sub>1</sub>P<sub>1</sub>S = +24m.11s., S = +24m.36s., ePS = +25m.33s., SR<sub>2</sub> = +30m.19s. Leningrad iPR<sub>1</sub> = +17m.32s., eS = +24m.54s., MZ = +64.1m., MN = +67.2m. Pulkovo PR<sub>1</sub> = +17m.28s., PPS = +26m.22s., SR<sub>1</sub> = +31m.24s., MN = +49.6m., MZ = +69.9m. Upsala eLN = +50.1m., MN = +66.7m. Athens eN = +25m.4s. Victoria LN = +43.7m., MN = +53.1m.; is L = SR<sub>2</sub>? Vienna SR<sub>1</sub> = +27m.37s. Zagreb ePR<sub>1</sub> = +19m.0s. Hamburg MZ = +65.1m. Rocca di Papa ePN = +19m.0s., ePE = +19m.2s., eP = +19m.26s. (PR<sub>1</sub> is at +19m.15s.). Hohenheim ePR<sub>2</sub>E = +25m.18s. = [S] + 10s., eE = +28m.50s. and +31m.30s. Strasbourg ePR<sub>1</sub> = +19m.23s., ePR<sub>2</sub> = +25m.44s. = [S] + 32s., ePS = +29m.33s., MZ = +72.4m. De Bilt ePR<sub>1</sub> = +19m.25s., MN = +69.2m., MZ = +74.1m.; T<sub>0</sub> = 10h.31m.41s.; epicentre 2° 0'S. 127° 3'E., as adopted. Uccle e = +25m.31s. = [S] + 14s. = S<sub>0</sub>P<sub>0</sub>S + 14s., e = +35m.12s. = SR<sub>1</sub> + 6s., and +39m.12s. Dyce PR<sub>1</sub> = +19m.30s. Stonyhurst iPR<sub>1</sub>? = +27m.36s. = S - 25s. Granada i = +23m.46s. = PR<sub>2</sub> - 22s., +24m.25s. and +27m.44s., P = +32m.39s., which with L and M above furnish the phase for a second shock. Ann Arbor eN = +25m.36s. = PR<sub>2</sub> + 24s. and +33m.0s. Ottawa i = +22m.59s., eN = +31m.36s., eE? = +35m.9s., e = +40m.36s., = SR<sub>1</sub> + 81s., eLN = +61.1m., MN = +72.1m. Toronto eE = +40m.6s. = SR<sub>1</sub> + 51s. Fordham eN = +22m.7s. = PR<sub>1</sub> - 6s. and +24m.57s., iN = +23m.7s. and +26m.10s. = PR<sub>2</sub> + 19s., SR<sub>1</sub>N = +41m.14s., SR<sub>2</sub> = +45m.27s., e = +66m.12s., MN = +74.4m. Sucre iP = +20m.29s., PR<sub>1</sub> = +23m.53s., SR<sub>2</sub> = +50m.59s. = SR<sub>2</sub> + 52s.

Aug. 3d. 19h. 41m. 12s. Epicentre 1° 0'N. 97° 5'E.

A = -.131, B = +.991, C = +.017; D = +.991, E = +.131;  
G = -.002, H = +.017, K = -.1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	11.7	128	e 3 2	+ 7	—	—	16.2	—
Colombo	18.6	289	e 4 48	+24	8 38	+45	10.8	12.8
Phu-Lien	21.7	23	e 5 2	+ 1	e 9 20	+21	12.8	—
Kodaikanal	22.0	296	e 5 48	+43	—	—	11.7	17.0
Hyderabad	25.0	312	e 5 40	+ 2	10 10	+ 7	13.4	17.2
Hong Kong	26.8	36	e 5 53	- 3	(10 38)	+ 1	10.6	19.3
Manila	26.9	58	e 5 48†	- 9	—	—	—	—
Bombay	30.2	308	e 9 27	+177	13 31	+114	e 16.5	—
Taihoku	E. 33.4	43	—	—	e 11 48†	-42	17.8	—
Siria	E. 35.8	330	—	—	—	—	e 17.3	—
Zi-ka-wai	37.7	35	e 17 23	-13	e 16 21	+167	22.8	25.6
Irkutsk	51.6	6	e 9 16	- 1	16 40	+ 1	27.8	34.3
Adelaide	52.6	138	—	—	—	—	e 31.2	33.8
Melbourne	58.4	138	—	—	e 17 54	-10	—	35.3
Baku	58.4	320	e 10 9	+ 8	—	—	e 30.8	43.3
Ekaterinburg	63.1	339	e 10 44	+11	119 29	+27	—	39.7
Makeyevka	69.4	323	e 11 18	+ 5	20 21	+ 2	32.8	50.7
Kucino	72.6	329	e 11 38	+ 4	20 59	+ 2	37.8	49.3
Pulkovo	77.9	332	e 12 6	+ 0	121 57	- 2	37.8	58.6
Leningrad	78.0	332	e 12 8	+ 1	21 58	- 2	42.3	55.4
Vienna	83.4	320	e 12 36	- 2	22 58	- 3	—	—
Upsala	E. 84.1	330	—	—	e 23 2	- 7	—	—
Rocca di Papa	85.5	313	e 12 48	- 3	e 22 19	-66	—	—
Florence	86.6	314	e 19 48	?	—	—	—	41.8
Hamburg	87.8	325	e 13 1	- 3	e 23 42	- 8	52.8	—
Zurich	88.6	318	e 13 1	- 7	e 23 19	[ 0]	—	—
Straasbourg	89.1	320	e 13 5	- 6	e 23 46	-18	36.8	—
De Bilt	90.7	322	e 13 14	- 6	e 24 8	-13	e 49.8	61.8

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	91.3	321	—	—	e 24 12	-15	e 44.8	—
Paris	92.6	320	—	—	—	—	e 53.8	—
Algiers	93.0	309	—	—	24 26	-19	—	59.8
Kew	94.1	322	—	—	(e 23 48?)	[- 4]	e 23.8	—
Edinburgh	95.2	327	—	—	—	—	e 48.8	—
Granada	98.3	309	i 12 15	-107	e 21 53	-226	e 43.8	58.8
San Fernando	E. 100.4	309	—	—	—	—	—	73.3
Victoria	E. 119.3	30	—	—	—	—	72.4	—
Ottawa	133.3	352	e 22 54	?PR <sub>1</sub>	e 39 48?	?SR <sub>1</sub>	e 54.8	—
Toronto	N. 135.3	357	—	—	—	—	e 81.2	—

Additional readings and notes: Simla eN = +20m.12s.: another shock ?  
 Baku e = +13m.53s. = PR<sub>2</sub> + 9s., MN = +36.7m., MZ = +41.7m. Ekaterin-  
 burg e = +12m.59s. = PR<sub>1</sub> - 27s. and +14m.33s. = PR<sub>2</sub> - 7s., MN = +38.3m.,  
 MZ = +42.4m. Makeyevka PR<sub>2</sub> = +16m.15s., MN = +48.6m. Kucino  
 ePR<sub>1</sub> = +14m.26s., ePR<sub>2</sub> = +16m.8s., e = +21m.13s. = [S] - 13s., MN =  
 +39.8m. Pulkovo MN = +49.0m. Leningrad MN = +56.9m., MZ =  
 +57.1m. De Bilt eE = +23m.55s. = [S] + 23s., MZ = +64.8m. San  
 Fernando MN = +64.3m.

Aug. 3d. Readings also at 4h. (Taihoku (2) ), 6h. (La Paz and Sucre), 7h. (2) and 8h. (2) (Venice), 12h. (Leningrad and near Tacubaya), 13h. and 16h. (Zi-ka-wei), 22h. (Kodaikanal).

Aug. 4d. Readings at 4h. (Dyce), 10h. (Ekaterinburg), 11h. (Pulkovo), 12h. (Hohenheim), 13h. (Tokyo and Ekaterinburg), 14h. (Azores and Zi-ka-wei), 17h. (Tokyo and Paris), 19h. (Irkutsk, Ekaterinburg, and near Zi-ka-wei), 20h. (Pulkovo, Leningrad (2), and De Bilt), 21h. (Zi-ka-wei), 23h. (near La Paz and Sucre).

Aug. 5d. 2h. 47m. 45s. (I) } Epicentre 25° 0N. 119° 5E.  
 4h. 22m. 40s. (II) } (as on 1920 Dec. 6d. 1h.).  
 4h. 55m. 55s. (III)  
 5h. 49m. 35s. (IV)  
 6h. 7m. 36s. (V)

A = -446, B = +789, C = +423; D = +870, E = +492;  
 G = -208, H = +368, K = -906.

A long series of repetitions, apparently *not* from the epicentre 24° 0N. 124° 0E. on Aug. 6d. 15h. From the general character of the records De Bilt suggests that the epicentre is closely the same for all, but there seem to be at least three epicentres involved, viz., 25° 0N. 119° 5E., 24° 0N. 124° 0E., and 25° 8N. 128° 0E. For the minor shocks it is difficult to be certain of the proper epicentre.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Zi-ka-wei	6.4	15	e 1 40	+ 2	2 51	- 4	—	—
II	6.4	15	e 1 44	+ 6	2 50	- 5	—	—
III	6.4	15	e 1 44	+ 6	2 51	- 4	—	—
IV	6.4	15	e 1 39	+ 1	—	—	—	6.1
V	6.4	15	e 1 40	+ 2	2 42	-13	—	4.4
I Irkutsk	29.5	341	—	—	—	—	e 18.2	—
II	29.5	341	—	—	—	—	e 18.3	—
IV	29.5	341	—	—	e 11 25?	- 1	15.4	—
V	29.5	341	—	—	—	—	17.4	—
v Ekaterinburg	52.4	324	e 9 46	+ 24	—	—	—	34.6
v Pulkovo	68.2	327	—	—	e 24 18	?SR <sub>1</sub>	—	44.5
iv Leningrad	68.2	327	—	—	—	—	e 40.4	—
v De Bilt	84.1	326	—	—	—	—	e 54.4	—

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Aug. 5d.				7h. 35m. 35s. (VI)		8h. 53m. 5s. (VII)		10h. 14m. 25s. (VIII)		10h. 27m. 0s. (IX)		12h. 3m. 0s. (X)		Epicentre 25°·0N. 119°·5E., as above.					
		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.										
		°	°	m. s.	s.	m. s.	s.	m.	m.										
VII	Taihoku	N.	1·9	89	—	—	—	e 2·2	—										
VIII	N.	1·9	89	—	—	—	e 2·0	—											
IX	N.	1·9	89	e-1	0	?	—	—											
X	N.	1·9	89	—	—	—	e 1·2	—											
VI	Zi-ka-wel		6·4	15	e 1 52	+14	e 2 50	- 5	4·5										
VII			6·4	15	e 1 41	+ 3	3 2	+ 7	—										
VIII			6·4	15	1 35	- 3	2 52	- 3	—										
IX			6·4	15	e 1 53	+15	2 50	- 5	—										
X			6·4	15	e 1 58	+20	2 48	- 7	—										
VI	Irkutsk		29·5	341	—	—	—	e 16·4	—										
VIII			29·5	341	e 5 35?	-48	—	19·6	—										
X			29·5	341	e 6 0?	-23	—	20·0	—										
VII	Ekaterinburg		52·4	324	e 9 15	- 7	—	—	34·7										
VIII			52·4	324	e 9 24	+ 2	—	—	30·9										
X			52·4	324	e 9 21	- 1	—	—	34·8										
VI	Pulkovo		68·2	327	—	—	—	e 26·9	—										
VII			68·2	327	—	—	—	e 41·9	—										
VIII			68·2	327	—	—	—	e 32·3	44·8										
X			68·2	327	—	—	—	39·3	44·8										
VII	Leningrad		68·2	327	—	—	—	e 37·9	—										
VIII			68·2	327	—	—	—	e 42·6	—										
VIII	De Bilt		84·1	326	—	—	—	e 48·6	—										
X	Strasbourg		84·6	322	—	—	—	e 47·0	—										
X	Uccle		85·2	324	—	—	—	e 48·0	—										
X	Kew		87·1	327	—	—	—	e 55·0	—										
X	Granada		98·0	318	—	—	—	e 58·0	62·5										

Aug. 5d.				12h. 46m. 36s. (XI)		13h. 14m. 50s. (XII)		14h. 53m. 20s. (XIII)		15h. 32m. 24s. (XIV)		16h. 41m. 10s. (XV)		Epicentre 25°·0N. 119°·5E. (as above).					
		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.										
		°	°	m. s.	s.	m. s.	s.	m.	m.										
XI	Taihoku	N.	1·9	89	—	—	—	e 2·4	—										
XV	N.	1·9	89	—	—	—	—	e 1·1	—										
XI	Zi-ka-wel		6·4	15	e 1 34	- 4	e 2 54	- 1	—										
XII			6·4	15	e 1 22	-16	e 3 17	+22	—										
XIII			6·4	15	e 1 37	- 1	—	—	—										
XIV			6·4	15	e 1 39	+ 1	3 5	+10	—										
XV			6·4	15	e 1 40	+ 2	2 53	- 2	4·5										
XV	Phu-Lien		12·6	253	—	—	—	—	9·8										
XI	Irkutsk		29·5	341	—	—	—	e 17·4	—										
XIII			29·5	341	—	—	—	e 16·4	—										
XI	Ekaterinburg		52·4	324	e 9 24	+ 2	—	—	34·8										
XIV			52·4	324	9 25	+ 3	19 15	+146	34·9										
XV			52·4	324	9 17	- 5	—	—	34·8										
XI	Pulkovo		68·2	327	—	—	—	e 41·4	—										
XII			68·2	327	—	—	—	e 38·6	—										
XIII			68·2	327	—	—	—	e 43·7	—										
XIV			68·2	327	—	—	—	e 43·6	—										
XV			68·2	327	—	—	e 14 8	1PR <sub>1</sub>	44·6										
XI	Leningrad		68·2	327	—	—	—	e 38·9	—										
XIV			68·2	327	—	—	—	e 48·1	—										
XV			68·2	327	—	—	—	38·5	—										
XV	Hamburg		80·8	325	—	—	—	e 45·8	—										
XIV	De Bilt		84·1	326	—	—	—	e 55·6	—										
XV			84·1	326	—	—	—	e 46·8	—										
XIV	Strasbourg		84·6	322	—	—	—	e 57·6	—										
XV			84·6	322	—	—	—	e 43·8	—										
XV	Uccle		85·2	324	—	—	—	e 38·8	—										
XV	Kew		87·1	327	—	—	—	e 52·8	—										
XV	Paris		87·3	324	—	—	—	e 50·8	—										
XV	Granada		98·0	318	—	—	—	e 64·3	66·9										

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Aug. 5d. 18h. 40m. 18s. (XVI)  
 20h. 40m. 0s. (XVII)  
 22h. 45m. 20s. (XVIII)  
 23h. 31m. 50s. (XIX)  
 23h. 52m. 30s. (XX) } Epicentre 25°·0N. 119°·5E. (as above).

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
XVII	Taihoku	N.	1·9	89	—	—	—	e 1·6	—
XVIII		N.	1·9	89	—	—	—	e 1·0	—
XIX		N.	1·9	89	—	—	—	e 1·3	—
XX		N.	1·9	89	—	—	—	e 2·2	—
XVI	Zi-ka-wei		6·4	15	e 1 42	+ 4	2 52	- 3	—
XVII			6·4	15	e 1 14	-24	e 2 22	-33	—
XVIII			6·4	15	e 1 35	- 3	—	—	—
XIX			6·4	15	e 0 30	-68	—	—	—
XX			6·4	15	e 1 28	-10	—	—	3·8
XX	Manila		10·5	172	e 1 30?	-67	—	—	—
XIX	Phu-Lien		12·6	253	—	—	—	—	10·2
XVI	Irkutsk		29·5	341	e 8 42?	+139	—	14·7	—
XVIII			29·5	341	—	—	e 11 40?	+14	18·7
XIX			29·5	341	e 6 16	- 7	e 11 42	+16	19·2
XX			29·5	341	e 6 42	+19	—	—	18·5
XVII	Ekaterinburg		52·4	324	e 9 43	+21	—	—	35·3
XVIII			52·4	324	e 9 13	- 9	—	—	34·8
XIX			52·4	324	9 34	+12	—	e 30·7	31·5
XIX	Baku		59·0	304	—	—	—	e 35·7	—
XX			59·0	304	—	—	—	e 39·9	—
XX	Makeyevka		66·2	314	e 13 39	PR <sub>1</sub>	—	41·5	48·1
XVI	Pulkovo		68·2	327	—	—	—	e 44·3	—
XVII			68·2	327	e 11 30	+25	—	—	45·1
XVIII			68·2	327	—	—	—	e 42·7	—
XIX			68·2	327	—	—	—	e 34·7	41·2
XX			68·2	327	—	—	—	—	45·3
XVI	Leningrad		68·2	327	—	—	—	44·2	—
XVII			68·2	327	(e 11 30)	+25	—	e 11·5	—
XVIII			68·2	327	—	—	—	e 42·0	—
XX			68·2	327	—	—	—	38·5	45·5
XIX	Hamburg		80·8	325	—	—	—	e 45·2	—
XX			80·8	325	—	—	—	e 45·5	—
XVII	De Bilt		84·1	326	—	—	—	e 48·0	—
XVIII			84·1	326	—	—	—	e 48·7	—
XIX			84·1	326	—	—	—	e 47·2	55·5
XX			84·1	326	—	—	—	e 47·5	55·9
XIX	Strasbourg		84·6	322	—	—	—	47·2	—
XIX	Uccle		85·2	324	—	—	—	e 47·2	—
XIX	Kew		87·1	327	—	—	—	e 54·2	—
XX	Paris		87·3	324	—	—	—	e 35·5	57·5
XIX	Granada		98·0	318	—	—	—	e 49·2	62·7
XX			98·0	318	—	—	—	e 59·5	63·2

Aug. 5d. Readings also at 3h. (Irkutsk), 5h. (near Osaka), 6h. (Irkutsk), 10h. (Taihoku), 11h. (Pulkovo, Irkutsk, Leningrad, and Osaka), 14h. (Azores), 16h. (Irkutsk), 17h. (Ekaterinburg, Irkutsk, and near Athens), 18h. (Leningrad, Pulkovo, and Zagreb), 20h. and 22h. (Irkutsk), 23h. (near Osaka (2)).

Aug. 6d. 3h. 6m. 10s. (XXI)  
 3h. 55m. 10s. (XXII)  
 4h. 32m. 50s. (XXIII)  
 5h. 26m. 24s. (XXIV) } Epicentre 25°·0N. 119°·5E. (as on Aug. 5d.).

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
XXI	Taihoku	N.	1·9	89	—	—	—	e 1·4	—
XXIII		N.	1·9	89	—	—	—	e 1·8	—
XXIV		N.	1·9	89	e 1 22	+53	—	—	—
XXI	Zi-ka-wei		6·4	15	e 1 48	+10	2 45	-10	4·5
XXII			6·4	15	e 1 37	-1	2 44	-11	4·3
XXIII			6·4	15	e 2 42	+64	3 17	+22	—
XXIV			6·4	15	1 48	+10	2 33	-22	—
XXIII	Manila		10·5	172	—	—	—	e 5·2	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
XXIII Nagasaki	11-9	47	e 2 14	-44	—	—	4-3	5-3
XXIV	11-9	47	e 5 12	?S	(e 5 12)	- 5	7-4	8-4
XXI Phu-Lien	12-6	253	—	—	—	—	10-2	—
XXIII	12-6	253	—	—	—	—	i 11-1	—
XXIV	12-6	253	—	—	—	—	11-6	—
XXIII Hukuoka	12-8	46	2 6	-64	3 49	-110	5-3	—
XXI Osaka	16-8	51	4 47	+45	(6 57)	-16	6-9	—
XXIII	16-8	51	5 37	+95	—	—	—	8-6
XXIV	16-8	51	4 3	+ 1	(6 17)	-56	6-3	8-5
XXI Irkutsk	29-5	341	—	—	e 11 8	-18	e 16-3	—
XXII	29-5	341	—	—	—	—	e 16-8	—
XXIII	29-5	341	e 6 22	- 1	e 11 26	0	19-2	—
XXI Ekaterinburg	52-4	324	e 9 14	- 8	—	—	—	34-8
XXII	52-4	324	e 6 52	-150	e 17 23	+35	—	34-6
XXIII Makeyevka	66-2	314	—	—	e 37 19	?L	43-2	47-6
XXI Pulkovo	68-2	327	—	—	—	—	e 42-3	44-7
XXII	68-2	327	—	—	—	—	e 43-3	—
XXIII	68-2	327	—	—	e 21 21	+77	37-7	45-1
XXI Leningrad	68-2	327	—	—	—	—	e 41-8	44-6
XXII	68-2	327	—	—	—	—	43-8	—
XXIII	68-2	327	—	—	—	—	39-2	45-1
XXIII Upsala N.	74-3	329	—	—	—	—	e 42-2	—
XXIII Hamburg	80-8	325	—	—	—	—	e 45-2	54-2
XXI De Bilt	84-1	326	—	—	—	—	e 46-8	—
XXII	84-1	326	—	—	—	—	e 46-8	—
XXIII	84-1	326	—	—	—	—	e 47-2	55-8
XXIII Dyce	84-4	332	—	—	—	—	e 47-8	—
XXI Strasbourg	84-6	322	—	—	—	—	43-8	—
XXIII	84-6	322	—	—	—	—	47-2	56-2
XXIII Florence	85-0	317	49 40	?L	—	—	(49-7)	50-2
XXI Uccle	85-2	324	—	—	—	—	e 47-8	—
XXIII	85-2	324	—	—	—	—	e 47-2	—
XXIII Edinburgh	85-7	332	—	—	—	—	50-2	—
XXIII Moncalieri	86-5	319	—	—	e 33 35	?SR <sub>2</sub>	48-5	—
XXIII Stonyhurst	86-7	330	—	—	—	—	e 50-2	58-5
XXIV	86-7	330	—	—	—	—	e 50-6	53-1
XXI Kew	87-1	327	—	—	—	—	e 54-8	—
XXIII	87-1	327	—	—	—	—	e 39-2	—
XXIII Paris	87-3	324	—	—	—	—	e 47-2	58-2
XXIII Oxford	87-8	328	—	—	—	—	e 49-2	57-7
XXIII Tortosa N.	93-1	320	—	—	—	—	49-2	52-3
XXIII Granada	98-0	318	—	—	—	—	e 54-2	59-2

Aug. 6d. 5h. 23m. 48s. Epicentre 85°-0N. 85°-0E.

A = +.008, B = +.087, C = +.996 ; D = +.996, E = -.087 ;  
G = +.087, H = +.992, K = -.087.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Leningrad	27-4	242	16 4	+ 2	i 10 58	+10	13-2	23-0
Pulkovo	27-6	242	16 6	+ 2	i 10 59	+ 7	13-7	21-6
Upsala	28-6	256	e 6 10	- 4	e 11 4	- 6	e 14-2	22-5
Ekaterinburg	28-7	208	16 16	+ 1	i 11 14	+ 2	13-2	19-3
Dyce	32-8	275	16 46	- 9	e 12 12	- 9	e 16-0	—
Irkutsk	33-0	158	e 6 56	—	e 12 21	- 3	17-2	29-4
Edinburgh	34-2	275	—	—	i 13 36	- 7	—	—
Hamburg	35-4	262	e 7 14	- 3	e 12 42	-19	—	21-2
Stonyhurst	36-2	274	—	—	e 12 59	-14	—	—
De Bilt	37-3	266	17 30	- 2	i 13 22	- 6	e 16-2	—
Kew	38-4	273	7 36	- 5	—	—	18-2	—
Uccle	38-6	267	e 7 39	- 4	e 13 38	- 8	e 18-2	22-0
Makeyevka	38-7	231	7 42	- 2	13 44	- 4	20-2	25-3
Vienna	40-1	254	e 7 53	- 3	14 3	- 5	i 19-7	22-7
Hohenheim	40-2	261	e 7 56	- 1	e 13 48	-22	e 19-5	—
Strasbourg	40-6	263	7 54	- 6	e 14 10	- 5	e 16-2	34-1
Budapest	40-7	251	8 9	+ 8	—	—	e 25-2	29-5
Paris	40-8	268	17 59	- 2	e 17 21	?SR <sub>1</sub>	25-2	34-2
Graz	41-3	255	18 28	+23	(14 36)	+11	27-2	—
Zurich	41-7	262	18 6	- 3	—	—	—	—
Platigorsk	42-3	225	e 7 43	-30	i 14 13	-26	—	23-2

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	42.6	254	e 8 12?	- 3	—	—	—	30.4
Venice	43.2	258	8 20	0	10 9	?PR <sub>1</sub>	—	—
Moncalieri	44.1	262	e 7 43	-44	14 59	- 4	22.9	—
Florence	45.0	258	8 32	- 1	15 12	- 3	24.2	34.7
Victoria	46.1	26	8 30	-11	15 20	- 9	24.8	29.8
Rocca di Papa	46.9	257	e 8 49	+ 3	e 15 35	- 5	34.4	34.8
Naples	47.6	255	e 6 55	-116	—	—	—	—
Pompeii	47.7	255	e 9 1	+ 9	e 15 51	+ 1	—	—
Tortosa	E. 48.9	269	e 9 7	+ 8	16 12	+ 7	—	—
	N. 48.9	269	9 3	+ 4	16 18	+13	e 24.2	38.7
Ottawa	49.4	342	—	—	i 16 10	- 1	e 23.2	—
Athens	49.8	245	—	—	e 16 24	+ 8	24.7	27.2
Toledo	50.2	273	9 10	+ 2	—	—	—	16.6
Toronto	E. 51.2	345	—	—	e 16 34	0	23.2	—
Ann Arbor	N. 52.6	349	—	—	—	—	e 30.1	—
Algiers	52.7	266	e 8 22	-62	17 6	+14	—	—
Granada	52.8	272	18 32	-53	15 40	-74	e 25.2	42.2
Almeria	52.0	273	e 8 28	-58	e 15 2	-114	e 24.9	26.1
Chicago	53.2	353	—	—	16 52	- 7	26.6	28.2
San Fernando	53.8	275	e 5 22	?	—	—	e 24.8	43.2
Simla	E. 53.9	188	—	—	—	—	—	—
Tucson	N. 62.5	15	e 10 27	- 2	e 18 50	- 5	23.4	—
Phu-Lien	64.6	158	14 12?	?PR <sub>1</sub>	—	—	—	—
Hyderabad	67.6	187	—	—	—	—	—	40.0

Additional readings: Leningrad MN = +16.1m., MZ = +20.8m. Pulkovo  
 SR<sub>2</sub> = +13m.0s., MN = +20.8m., MZ = +21.0m. Upsala MN = +21.3m.  
 Ekaterinburg MNZ = +19.6m. Irkutsk MZ = +24.1m., MN = +30.4m.  
 De Bilt eLN = +18.2m. Makeyevka P = +9m.16s. = PR<sub>1</sub> + 8s., PR<sub>2</sub> =  
 +9m.59s. = PR<sub>2</sub> + 15s., S = +15m.24s. = SR<sub>1</sub> - 56s. MN = +29.0m., MZ =  
 +33.2m. Vienna SR<sub>1</sub>? = +16m.39s., iN = +21m.48s. Hohenheim  
 eE = +1m.48s. and +11m.28s. Graz S is given as PR<sub>1</sub>, with S =  
 +17m.28s. = SR<sub>1</sub> + 14s. Piatigorsk i = +9m.20s. = PR<sub>1</sub> - 29s. Victoria  
 LN = +26.9m., MN = +29.5m.; T<sub>0</sub> = 5h.23m.41s. Rocca di Papa  
 eZ = +8m.37s., eE = +8m.45s., eS = +15m.43s. Granada i =  
 Toledo eNW = +12m.50s. = PR<sub>2</sub> + 24s., and +14m.16s. Granada i =  
 +14m.18s., eS = +15m.9s. S is given as PS. Chicago PR<sub>1</sub>N = +11m.52s.,  
 PR<sub>2</sub>N = +12m.29s., SE = +16m.54s., eS<sub>0</sub>SN = +19m.35s., SR<sub>1</sub>N =  
 +20m.33s., SR<sub>2</sub>E = +20m.42s., SR<sub>2</sub>E = +22m.2s. and 22m.30s., SR<sub>2</sub>N =  
 +23m.0s. = SR<sub>2</sub> - 24s., MN = +32.4m. San Fernando MN = +104.7m.  
 Simla eN = +32m.0s. Tucson eE = +18m.57s. and +20m.57s.

Aug. 6d. 6h. 0m. 40s. (I) } Epicentre 25°-8N. 128°-0E. (as on 1925 Nov. 28d.).  
 7h. 1m. 48s. (II) }

A = -554, B = +709, C = +435; D = +788, E = +616;  
 G = -268, H = +343, K = -900.

Possibly the European observations are those of a separate shock; but see also  
 Aug. 9d. 14h.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Taihoku	N. 5.9	263	—	—	—	—	e 1.4	—
II	N. 5.9	263	—	—	—	—	e 1.5	—
I Nagasaki	7.1	13	2 13	+25	—	—	4.5	5.5
II	7.1	13	e 2 4	+16	—	—	4.3	5.3
I Zi-ka-wei	8.0	315	1 1 51	-10	1 3 25	-12	—	—
II	8.0	315	e 2 17	+16	3 42	+ 5	—	—
I Hukuoka	8.0	15	2 12	+11	—	—	5.5	5.7
II	8.0	15	2 19	+18	—	—	5.5	—
I Osaka	11.0	34	3 1	+17	—	—	6.9	9.0
II	11.0	34	1 43	-61	—	—	5.9	8.8
I Manila	13.0	212	e 3 36	+23	—	—	9.3	—
II	13.0	212	e 4 12	+59	—	—	10.0	—
I Hong Kong	13.1	257	—	—	—	—	—	10.3
II	13.1	257	3 4	-10	—	—	7.0	10.4
I Phu-Lien	20.3	260	14 42	- 3	e 8 25	- 4	11.3	—
II	20.3	260	—	—	—	—	e 9.3	—
I Irkutsk	31.9	332	e 6 32	-14	e 11 55	-12	17.3	20.5
II	31.9	332	6 26	-20	e 11 32	-35	16.2	20.7

Continued on next page.



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Aug. 6d. 9h. 48m. 20s. Epicentre 25°·0N. 119°·5E. (xxvi as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·9	89	—	—	e 1 6	+13	—	—
Hong Kong	5·5	242	—	—	—	—	—	11·2
Ekaterinburg	52·4	324	e 9 23	+ 1	—	—	—	35·0
Kucino	64·9	322	—	—	—	—	e 34·7	—
Pulkovo	68·2	327	—	—	—	—	42·7	44·9
Leningrad	68·2	327	—	—	—	—	—	44·2
Kew	87·1	327	—	—	—	—	e 55·7	—
Paris	87·3	324	—	—	—	—	e 56·7	57·7

Aug. 6d. 10h. 22m. 32s. Epicentre 25°·0N. 119°·5E. (xxvii as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wel	6·4	15	1 44	+ 6	2 49	- 6	—	—
Pulkovo	68·2	327	—	—	—	—	43·0	—
Leningrad	68·2	327	—	—	—	—	e 64·0	—
De Bilt	84·1	326	—	—	—	—	e 47·5	—
Kew	87·1	327	—	—	—	—	e 55·5	—
Paris	87·3	324	—	—	—	—	e 56·5	—
Granada	98·0	318	—	—	—	—	59·5	64·7

Aug. 6d. 11h. 0m. 36s. Epicentre 25°·0N. 119°·5E. (xxviii as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·9	89	—	—	—	—	e 1·3	—
Hong Kong	5·5	242	—	—	—	—	—	10·4
Zi-ka-wel	6·4	15	e 1 38	0	2 54	- 1	—	4·2
Nagasaki	11·9	47	2 48	-10	—	—	—	5·4
Irkutsk	29·5	341	e 6 14	- 9	—	—	e 16·6	—
Ekaterinburg	52·4	324	e 9 32	+10	—	—	—	35·0
Pulkovo	68·2	327	—	—	e 26 46	?	40·9	45·1
Leningrad	68·2	327	—	—	—	—	43·6	46·4
De Bilt	84·1	326	—	—	—	—	—	37·4
Kew	87·1	327	—	—	—	—	e 56·4	—
Paris	87·3	324	—	—	—	—	e 57·4	—

Aug. 6d. 11h. 30m. 20s. Epicentre 25°·0N. 119°·5E. (xxix as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·9	89	—	—	e 0 49	- 4	—	—
Zi-ka-wel	6·4	15	e 1 45	+ 7	—	—	—	—
Nagasaki	11·9	47	e 1 59	-59	(3 33)	-104	3·6	4·6
Phu-Lien	12·6	253	—	—	—	—	—	10·7
Osaka	16·8	51	6 49	?S	(6 49)	-24	—	—
Irkutsk	29·5	341	e 5 59	-24	—	—	e 18·7	—
Ekaterinburg	52·4	324	e 9 20	- 2	—	—	—	34·7
Kucino	64·9	322	—	—	—	—	e 40·6	48·3
Pulkovo	68·2	327	—	—	—	—	e 30·5	44·7
Leningrad	68·2	327	—	—	—	—	e 43·7	46·2
De Bilt	84·1	326	—	—	—	—	e 47·7	—
Kew	87·1	327	—	—	—	—	e 53·0	—
Paris	87·3	324	—	—	—	—	e 53·1	—

Aug. 6d. 12h. 5m. 40s. Epicentre 25°·0N. 119°·5E. (xxx as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·9	89	—	—	—	—	e 2·3	—
Hong Kong	5·5	242	—	—	—	—	—	11·5
Zi-ka-wel	6·4	15	e 1 51	+13	2 45	-10	—	6·2
Nagasaki	11·9	47	2 48	-10	—	—	—	5·4
Hukuoka	12·8	46	3 9	- 1	—	—	—	6·5
Osaka	16·8	51	1 59	-123	—	—	4·5	9·3

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Aug. 6d. 12h. 6m. 46s. Epicentre 25°-0N. 119°-5E. (xxxI as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	10.5	172	e 4 56	1S	(e 4 56)	+13	10.5	—
Phu-Lien	12.6	253	—	—	—	—	—	10.2
Irkutsk	29.5	341	e 6 21	-2	e 11 28	+2	17.2	21.6
Ekaterinburg	52.4	324	e 9 35	+13	—	—	—	35.1
Piatigorsk	63.5	310	—	—	—	—	39.2	—
Kucino	64.9	322	—	—	e 26 38	1SR <sub>2</sub>	35.3	40.5
Pulkovo	68.2	327	—	—	23 44	+220	36.7	45.0
Leningrad	68.2	327	—	—	—	—	37.7	45.0
Upsala	E. 74.3	329	—	—	—	—	e 43.2	49.7
Budapest	78.4	317	—	—	—	—	e 48.2	—
Vienna	79.7	320	—	—	—	—	40.2	—
Graz	80.7	319	—	—	—	—	e 43.2	—
Hamburg	80.8	325	—	—	—	—	e 43.2	53.2
De Bilt	84.1	326	—	—	—	—	e 47.2	55.7
Strasbourg	84.6	322	—	—	—	—	43.2	56.0
Zurich	84.7	320	—	—	—	—	e 47.5	—
Florence	N. 85.0	317	e 20 14	1PR <sub>2</sub>	e 32 44	1SR <sub>2</sub>	43.2	49.2
Edinburgh	85.7	332	—	—	—	—	47.3	59.3
Moncalieri	86.5	319	e 15 46	1	30 37	1	e 48.2	58.7
Stonyhurst	86.7	330	—	—	—	—	e 44.2	52.7
Kew	87.1	327	—	—	—	—	e 46.2	—
Paris	87.3	324	—	—	—	—	50.2	57.2
Tortosa	N. 93.1	320	—	—	—	—	e 51.2	63.6
Granada	98.0	318	—	—	—	—	53.8	63.3
San Fernando	100.0	318	—	—	29 14	1	56.2	67.2

Aug. 6d. 13h. 17m. 48s. Epicentre 26°-0N. 96°-0E. (as on 1924 Aug. 1d.).

A = -.094, B = +.894, C = +.438; D = +.995, E = +.105;  
G = -.046, H = +.436, K = -.899.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	27.0	11	e 5 48	-10	—	—	18.2	—
Ekaterinburg	39.8	330	e 8 26	+33	—	—	—	32.9
Kucino	50.9	321	—	—	—	—	22.1	25.8
Pulkovo	55.6	327	—	—	e 17 34	+5	33.7	37.1
Leningrad	55.7	327	—	—	—	—	34.4	38.6
Rocca di Papa	68.3	307	e 30 58	1L	—	—	(e 31.0)	31.1
Zurich	69.5	314	e 11 11	-3	e 20 35	+15	—	—
Strasbourg	69.8	316	e 11 23	+7	e 20 40	+16	—	—
De Bilt	70.3	320	—	—	e 20 8	-22	e 40.2	—

Additional readings: Irkutsk e = +13m.12s.1? Ekaterinburg MN = +32.3m., MZ = +34.4m. Kucino MN = +23.6m. Is L = SR<sub>2</sub>? Pulkovo MN = +38.4m., MZ = +38.6m. Rocca di Papa eN = +30m.37s. = SR<sub>2</sub> + 79s., eE = +30m.51s. = SR<sub>2</sub> + 93s., MN = +31.4m.

Aug. 6d. 13h. 31m. 0s. Epicentre 25°-0N. 119°-5E. (xxxII as at 12h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Zi-ka-wei	6.4	15	e 1 42	+4	2 50	-5

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Aug. 6d. 13h. 48m. 24s. (XXXXIII) } Epicentre 25°-0N. 119°-5E. (as above).  
 14h. 4m. 0s. (XXXXIV) }  
 14h. 30m. 0s. (XXXXV) }

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
XXXXIII Taihoku N.	1-9	89	—	—	—	—	2-1	—
XXXXIV N.	1-9	89	—	—	e 0 41	-12	—	—
XXXXIII Hong Kong	5-5	242	—	—	—	—	—	11-6
XXXXIII Zi-ka-wei	6-4	15	e 1 43	+ 5	2 34	-21	—	4-7
XXXXIV	6-4	15	e 1 45	+ 7	3 4	+ 9	—	—
XXXXV	6-4	15	e 1 44	+ 6	2 42	-13	—	—
XXXXIV Nagasaki	11-9	47	e 4 17	†S (e 4 17)	—	-60	6-6	7-6
XXXXIII Phu-Lien	12-6	253	—	—	—	—	—	11-6
XXXXIV	12-6	253	—	—	—	—	—	10-0
XXXXIII Osaka	16-8	51	3 52	-10	—	—	—	—
XXXXIV	16-8	51	3 50	-12	—	—	—	8-3
XXXXIV Irkutsk	29-5	341	—	—	—	—	17-0	—
XXXXIII Ekaterinburg	52-4	324	e 10 22	+60	—	—	e 24-6	50-4
XXXXIII Pulkovo	68-2	327	—	—	—	—	e 44-1	45-8
XXXXIV	68-2	327	—	—	—	—	e 41-0	44-8
XXXXIII Leningrad	68-2	327	—	—	—	—	e 44-2	45-9
XXXXV	68-2	327	—	—	—	—	44-5	—
XXXXIV Hamburg	80-8	325	—	—	—	—	e 42-0	—
XXXXIII De Bilt	84-1	326	—	—	—	—	e 48-6	56-5
XXXXIV	84-1	326	—	—	—	—	e 47-0	55-4
XXXXV	84-1	326	—	—	—	—	e 48-0	—
XXXXIII Strasbourg	84-6	322	—	—	—	—	51-6	—
XXXXIV Edinburgh	85-7	332	—	—	—	—	49-0	—
XXXXIV Kew	87-1	327	—	—	—	—	e 39-0	—
XXXXIV Paris	87-3	324	—	—	—	—	e 51-0	57-0
XXXXV Victoria E.	87-7	36	—	—	—	—	54-3	—
XXXXIV Granada	98-0	318	—	—	—	—	—	62-6

Aug. 6d. 15h. 52m. 12s. Epicentre 24°-0N. 124°-0E.

(as on 1921 Dec. 1d.).

A = -511, B = +757, C = +407; D = +829, E = +559;  
 G = -228, H = +337, K = -914.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	2-5	294	0 48	+ 9	(1 24)	+15	1-4	2-0
Zi-ka-wei	7-5	343	1 57	+ 3	4 13	+49	(4-2)	6-4
Hong Kong	9-2	262	2 28	+ 9	—	—	—	7-8
Manila	9-8	197	e 2 37	+10	16 31	+128	18-3	19-4
Nagasaki	10-1	29	2 19	-12	—	—	5-6	7-8
Hukuoka	11-1	29	2 28	-18	4 35	-22	7-0	7-7
Osaka	14-6	40	3 39	+ 5	—	—	—	10-2
Phu-Lien	16-4	262	e 3 59	+ 2	17 23	+19	9-1	—
Irkutsk	32-0	337	e 6 20	-27	e 12 3	- 5	17-8	21-0
Batavia	34-6	211	16 59	-11	112 31	-18.	—	—
Simla N.	41-8	292	—	—	—	—	e 22-2	—
Hyderabad	42-9	273	e 7 14	-63	14 33	-14	24-5	60-8
Bombay	47-6	276	e 15 36	†S (e 15 36)	—	-13	27-5	—
Ekaterinburg	55-6	324	i 10 33	+50	e 16 56	-33	22-8	31-1
Platigorsk	67-3	310	—	—	—	—	32-8	—
Makeyevka	69-8	315	11 8	- 8	20 16	- 8	32-8	45-6
Honolulu N.	71-1	74	—	—	—	—	e 32-8	46-8
Pulkovo	71-2	326	i 11 17	- 7	20 33	- 7	40-0	47-5
Leningrad	71-2	328	11 16	- 8	—	—	38-2	47-3
Upsala	77-2	330	—	—	e 22 18	+27	e 40-8	48-9
Budapest	81-9	320	—	—	—	—	e 42-3	58-0
Vienna	83-2	321	12 24	-13	e 22 34	-25	—	54-8
Hamburg	83-9	327	e 12 29	-12	—	—	e 42-8	46-8
Graz	84-2	320	e 2 34	†	—	—	43-8	53-8
Zagreb	84-5	319	e 12 31	-14	22 48†	[- 5]	e 46-4	54-8
Victoria E.	85-9	39	13 36	+43	23 5	[+ 4]	39-6	55-0
Hohenheim	87-0	325	—	—	—	—	e 47-9	57-7
De Bilt	87-2	327	i 12 44	-16	e 23 12	[+ 2]	e 43-8	49-3
Strasbourg	87-9	325	12 45	-19	e 22 48†	[-26]	37-8	56-3
Zurich	88-0	322	e 12 49	-16	e 23 21	[+ 6]	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	88.3	327	e 12 54	-13	e 23 17	[ - 0]	e 42.8	49.4
Edinburgh	88.4	333	—	—	e 23 48 <sup>f</sup>	[ - 8]	45.8	59.8
Florence	88.5	313	e 0 48	?	23 28	[+10]	43.8	50.8
Rocca di Papa	88.6	316	e 13 15	+ 7	e 23 38	-21	e 45.1	64.2
Moncalieri	89.9	321	12 59	-16	23 25	[ - 2]	42.0	59.4
Kew	90.1	329	12 59	-18	e 22 48 <sup>f</sup>	[ -41]	34.8	53.5
Oxford	90.4	330	—	—	—	—	—	—
Paris	90.5	326	e 13 1	-18	e 23 32	[ + 1]	e 48.3	52.3
Tortosa	96.6	321	—	—	—	—	e 48.8	63.6
Toledo	99.9	323	e 11 56	-134	—	—	—	56.9
Almeria	100.9	320	13 25	-50	e 25 4	-60	—	61.2
Granada	101.4	320	e 13 29	-48	e 25 15	-54	52.8	68.8
Malaga	102.2	320	—	—	—	—	e 55.8	—
Rio Tinto	102.8	323	56 48 <sup>f</sup>	?L	—	—	(56.8)	75.8
San Fernando	103.4	321	—	—	—	—	e 56.8	59.8
Ottawa	108.2	14	—	—	e 28 0	+48	e 47.8	—
Toronto	109.0	19	—	—	—	—	58.0	—
La Paz	166.4	60	20 9	[ - 3]	—	—	—	—

Additional readings: Taihoku ME = +2.6m. Manila PS = +4m.56s.,  
 SR<sub>1</sub> = +7m.20s., MN = +19.5m. Nagasaki MN = +7.1m. Osaka MN =  
 +10.9m. Irkutsk PR<sub>1</sub> = +7m.32s., MN = +20.7m., MZ = +20.8m.  
 Simla eE = +23m.6s. Ekaterinburg PR<sub>1</sub> = +12m.53s., i = +21m.39s.,  
 SR<sub>1</sub> -11s., MN = +31.2m., MZ = +35.4m. Makeyevka SR<sub>2</sub> = +28m.43s.,  
 MN = +44.0m., MZ = +49.7m. Pulkovo PR<sub>2</sub> = +15m.42s., PS =  
 +21m.10s. = [S] + 0s., MN = +42.7m., MZ = +45.3m. Leningrad MN =  
 +45.2m., MZ = +47.4m. Upsala MN = +43.1m. Budapest eL =  
 +48.8m., MN = +50.4m. Hamburg MN = +46.8m. Victoria LN =  
 +38.9m. De Bilt ePR<sub>2</sub>Z = +16m.12s., MZ = +56.6m. Strasbourg  
 MNZ = +60.3m. Rocca di Papa e = +11m.8s. Kew MN = +57.4m.  
 Paris MN = +50.8m. Tortosa ME = +65.4m. Almeria MN = +48.9m.  
 Granada e = +23m.36s. = [S] - 55s. San Fernando MN = +72.3m.  
 Ottawa eE = +30m.24s.

Aug. 6d. 16h. 42m. 20s. Epicentre 30°·1N. 131°·6E. (as on 1926 June 5d.).

A = -574, B = +647, C = +502; D = +748, E = +664;  
 G = -333, H = +375, K = -865.

The shock at 6d. 7h. 1m. 54s. would fit this epicentre for several stations, viz.,  
 Zi-ka-wei, Manila, Osaka, Irkutsk, and Ekaterinburg, though not Taihoku,  
 Hong Kong, Nagasaki, and Hukuoka. Neither epicentre fits these last 4  
 stations, except on the hypothesis of several errors of whole minutes.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	3.0	332	0 49	+ 2	—	—	4.3	5.5
Osaka	5.6	34	0 31	-56	—	—	—	8.8
Zi-ka-wei	8.8	278	e 2 10	- 3	e 3 47	-11	—	—
Taihoku	10.3	243	(2 32)	- 2	—	—	—	—
Hong Kong	17.4	248	—	—	—	—	—	10.5
Phu-Lien	24.3	253	—	—	—	—	7.7	—
Irkutsk	29.8	325	e 6 35	+ 9	—	—	17.7	—
Hamburg	82.3	330	—	—	—	—	44.7	52.7
De Bilt	85.4	330	—	—	—	—	e 47.7	55.8
Paris	89.0	329	—	—	—	—	e 48.7	—
Ottawa	N. 100.5	19	—	—	—	—	e 76.7	—
Granada	100.7	325	—	—	—	—	60.7	62.6

Additional readings: Osaka MN = +9.6m. De Bilt MN = +56.0m.

Aug. 6d. 19h. 51m. 0s. Epicentre 25°·0N. 119°·5E. (xxxvi as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Taihoku	N. 1.9	89	0 27	- 2	—	—	—
Zi-ka-wei	6.4	15	e 1 49	+11	2 42	-13	—
Irkutsk	29.5	341	e 6 21	- 2	—	—	—
Kucino	64.9	322	—	—	—	—	e 42.0
Pulkovo	68.2	327	—	—	—	—	e 44.4
Leningrad	68.2	327	—	—	—	—	e 44.3
De Bilt	84.1	326	—	—	—	—	e 53.0

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Aug. 6d. 20h. 36m. 30s. (I) } Epicentre 35°·0N. 78°·0E. (as on 1914 Oct. 9d.).  
 22h. 45m. 46s. (II)

A = +·170, B = +·801, C = +·574; D = +·978, E = -·208;  
 G = +·119, H = +·561, K = -·819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Simla	4·0	190	e 1 36	+34	—	—	e 2·3	3·1
II	4·0	190	1 20	+18	2 20	+30	2·9	3·2
I Bombay	16·9	197	—	—	—	—	e 7·5	—
II	16·9	197	4 11	+ 7	6 41	-35	8·7	10·9
I Hyderabad	17·6	178	7 36	?S	(7 36)	+ 5	10·2	10·3
II	17·6	178	4 36	+24	7 23	- 8	8·8	10·0
I Ekaterinburg	24·8	337	5 31	- 5	e 9 52	- 7	10·5	13·7
II	24·8	337	15 30	- 6	19 49	-10	10·2	14·6
I Irkutsk	25·4	39	e 5 29	-13	e 9 56	-15	13·5	—
II	25·4	39	e 5 28	-14	1 10 0	-11	13·2	16·2
I Piatigorsk	28·2	299	—	—	—	—	e 23·5	—
II	28·2	299	e 5 31	-39	e 10 29	-34	—	18·2
II Colombo	28·2	176	10 44	?S	(10 44)	-19	15·1	16·3
II Phu-Lien	28·8	112	—	—	9 14?	-119	—	—
I Makeyevka	32·2	307	—	—	e 11 54	-17	19·5	24·0
II	32·2	307	6 44	- 6	11 56	-15	14·2	24·1
II Hong Kong	33·9	102	—	—	—	—	—	20·1
I Kucino	34·2	320	—	—	—	—	17·9	22·0
II	34·2	320	—	—	—	—	15·2	23·0
II Zi-ka-wei	36·2	84	e 5 44	-100	7 6	?P	—	—
II Taihoku	38·7	91	e 6 52	-52	—	—	—	—
I Pulkovo	39·3	324	7 39	-10	13 38	-18	20·2	22·7
II	39·3	324	e 7 40	- 9	1 13 43	-13	20·4	25·0
I Leningrad	39·4	324	—	—	e 13 40	-17	20·0	25·6
II	39·4	324	1 7 42	- 8	1 13 42	-15	19·1	25·3
II Lemberg	41·5	308	e 7 26	-41	—	—	—	25·9
II Athens	43·1	290	e 8 8	-11	14 47	- 2	21·3	32·6
II Manila	43·6	107	e 8 14?	- 9	—	—	—	—
II Budapest	44·9	306	10 25	?PR <sub>1</sub>	18 53	?SR <sub>1</sub>	—	31·7
I Upsala	45·6	322	—	—	—	—	e 23·5	—
II	45·6	322	8 29	- 8	e 15 12	-10	e 25·7	28·7
II Osaka	46·4	73	10 40	?PR <sub>1</sub>	—	—	—	—
II Vienna	46·6	308	e 8 44	0	15 36	0	e 27·4	31·2
II Zagreb	47·2	301	e 8 48	0	e 15 43	- 1	e 19·4	30·5
II Graz	47·3	306	e 8 50	+ 1	e 19 26	?SR <sub>1</sub>	27·2	32·5
II Naples	49·5	296	14 58	?S	(14 58)	-75	32·2	—
II Venice	49·8	303	e 9 11	+ 5	(e 16 15)	- 1	—	—
I Hamburg	49·9	314	—	—	—	—	e 20·5	29·5
II	49·9	314	e 9 9	+ 3	e 16 15	- 3	e 24·8	29·2
II Rocca di Papa	50·4	299	e 9 54	+45	1 16 28	+ 4	e 30·0	38·4
II Florence	50·9	300	e 9 24	+12	16 44	+14	—	30·7
II Hohenheim E.	51·2	309	e 9 20	+ 6	(e 16 36)	+ 2	e 30·2	54·8
II Bergen	51·7	323	—	—	—	—	e 34·2	—
II Zurich	51·9	305	e 9 33	+14	e 16 46	+ 3	—	—
I Strasbourg	52·2	308	—	—	—	—	23·5	—
II	52·2	308	9 25	+ 4	16 48	+ 2	e 26·2	44·0
I De Bilt	53·1	312	—	—	—	—	e 27·5	34·3
II	53·1	312	9 32	+ 5	17 4	+ 7	e 26·2	35·3
II Moncalieri	53·1	304	e 9 35	+ 8	16 55	- 2	27·6	35·9
II Besançon	53·6	307	—	—	—	—	e 29·2	—
II Ucele	53·8	311	e 9 37	+ 5	e 17 12	+ 6	e 26·2	29·2
I Paris	55·5	309	—	—	—	—	e 23·5	—
II	55·5	309	e 9 49	+ 6	e 17 36	+ 8	29·2	38·9
I Kew	56·4	313	—	—	—	—	e 23·5	—
II	56·4	313	9 55	+ 7	e 17 47	+ 8	e 27·2	38·2
II Edinburgh	56·9	319	—	—	1 17 50	+ 5	e 31·2	39·0
II Oxford	57·0	313	—	—	1 17 54	+ 8	29·6	37·8
II Stonyhurst	57·0	316	e 9 57	+ 5	17 55	+ 9	—	36·6
II Barcelona	58·0	301	—	—	e 18 34	+35	e 33·3	35·6
II Algiers	59·1	295	e 10 6	0	e 18 21	+ 9	29·2	—
I Tortosa	59·4	300	—	—	—	—	e 33·5	38·2
II	59·4	300	10 17	+ 9	18 26	+10	—	40·2
II	59·4	300	e 10 14	+ 6	18 28	+12	29·5	38·2
II Toledo	63·0	300	e 10 37	+ 5	19 12	+11	e 28·2	42·4
II Almeria	63·0	299	e 10 35	+ 3	19 15	+14	—	40·4
I Granada	63·8	299	—	—	e 29 23	?	38·5	40·1
II	63·8	299	1 10 45	+ 8	1 19 20	+ 9	33·7	42·4

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
II Malaga	64.6	299	10 49	+ 7	19 33	+13	e 26.4	—
II San Fernando	66.0	299	—	—	19 50	+13	e 37.2	45.2
II Lisbon	67.0	301	—	—	—	—	e 37.7	40.6
II Victoria	94.4	14	24 6	?S	(24 6)	[+12]	e 49.2	60.2
II Ottawa	96.1	341	—	—	i 24 12	[+ 9]	e 42.7	57.2
II Toronto	N. 98.6	344	—	—	e 24 29	[+12]	e 43.5	62.5
II Sucre	143.8	284	e 19 21	[-26]	—	—	e 74.2	83.9
II La Paz	144.6	293	20 2	[+14]	—	—	—	—

Additional readings: Simla II PN = +1m.32s. Ekaterinburg I MZ = +15.6m., II e = +9m.57s., MN = +15.2m. MZ = +16.0m. Irkutsk II iP = +5m.34s. = P-8s. Piatigorsk II iP = +6m.9s. = P-1s. Hyderabad I S = +9m.36s. Makeyevka I e = +17m.7s., MN = +23.0m., MZ = +25.4m., II SR<sub>1</sub> = +13m.32s., MN = +20.5m. Kucino II readings have been increased by 1h. Pulkovo I SR<sub>1</sub> = +16m.24s., MN = +22.9m., MZ = +25.3m., II iP = +7m.43s., PR<sub>1</sub> = +9m.14s., iSR<sub>1</sub> = +16m.26s., MN = +22.9m., MZ = +25.3m.; epicentre 35°54'N. 77°58'E. Leningrad I e = +16m.26s. = SR<sub>1</sub>-8s., MN = +25.7m., II iP<sub>1</sub> = +9m.16s., iSR<sub>1</sub> = +16m.15s., iSR<sub>2</sub> = +16m.52s. = SR<sub>2</sub>-29s., MN = +22.9m. Lemberg II MN = +24.5m. Athens II MN = +30.6m. Budapest II MN = +29.2m. Upsala II ePR<sub>1</sub>E = +10m.20s., ePR<sub>2</sub>E = +20m.50s. = SR<sub>2</sub>+34s., eLN = +23.2m., MN = +26.4m. Vienna II iN = +15m.58s., SR<sub>2</sub> = +19m.58s. Zagreb II ePR<sub>2</sub> = +10m.39s., eLN = +42.2m.; is L = SR<sub>1</sub>? Hamburg II eSR<sub>1</sub> = +20m.14s., MZ = +33.2m.; is L = SR<sub>1</sub>? Hohenheim II eSE = +20m.38s. = SR<sub>1</sub>+10s., eN = +29m.20s.; true S is given as ePR<sub>1</sub>E. Strasbourg II SR<sub>2</sub> = +20m.59s., MZ = +48.2m.; are the L's = SR<sub>2</sub>? De Bilt I MN = +29.8m., MZ = +34.5m., II MN = +29.8m., MZ = +35.5m. Uccle II eSR<sub>1</sub> = +20m.46s. Paris II MN = +30.2m.; is L = SR<sub>2</sub>? Kew II MN = +34.0m.; is L = SR<sub>2</sub>? Oxford II i = +22m.34s. = SR<sub>1</sub>+18s. Barcelona II MN = +39.7m. Toledo II MNW = +42.2m. San Fernando MN = +43.7m. Ottawa eN = +31m.50s. = SR<sub>1</sub>+1s. and +38m.14s. = SR<sub>2</sub>-44s., eLN = +46.2m.

Aug. 6d. 20h. 44m. 20s. (XXXVII) } Epicentre 25°0N. 119°5E., (as at 19h.).  
 21h. 24m. 54s. (XXXVIII) }  
 22h. 7m. 3s. (XXXIX) }

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
XXXVIII Taihoku N.	1.9	89	—	—	—	—	e 4.7	—
XXXVII Zi-ka-wei	6.4	15	e 1 42	+ 4	2 50	- 5	—	—
XXXVIII	6.4	15	e 2 3	+25	2 43	-12	—	—
XXXIX	6.4	15	e 1 37	- 1	—	—	—	3.8
XXXVIII Phu-Lien	12.6	253	—	—	—	—	—	11.1
XXXVIII Osaka	16.8	51	6 19	?S	(6 19)	-54	—	9.8
XXXVII Tokyo	20.6	54	2 55	-113	—	—	—	—
XXXVIII Irkutsk	29.5	341	e 7 29	+66	—	—	18.1	—
XXXVIII Ekaterinburg	52.4	324	e 10 44	+82	—	—	—	34.0
XXXVIII Makeyevka	66.2	314	—	—	—	—	41.1	—
XXXVIII Pulkovo	68.2	327	—	—	—	—	38.3	46.0
XXXIX	68.2	327	—	—	—	—	38.5	—
XXXVIII Leningrad	68.2	327	—	—	—	—	39.6	46.9
XXXIX	68.2	327	—	—	—	—	43.5	—
XXXVIII De Bilt	84.1	326	—	—	—	—	e 48.1	56.8
XXXVIII Kew	87.1	327	—	—	—	—	e 51.1	—
XXXVIII Granada	98.0	318	—	—	—	—	61.1	63.9
XXXVIII Rio Tinto	99.3	320	43 6	?L	—	—	(43.1)	65.1

August 6d. Readings also at 2h. (Irkutsk, Pulkovo, and Leningrad), 3h. (Irkutsk), 4h. (Tokyo and Leningrad), 5h. (Almeria), 6h. (Tokyo), 7h. (Tokyo and Simla), 9h. (Nagasaki and Tokyo), 11h. (near Matuyama and Sumoto), 17h. (Tokyo, Tucson, Toronto, and near Lick and Berkeley), 18h. (near Calcutta), 21h. (near Mostar), 23h. (Granada).



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Aug. 7d. 0h. 11m. 33s. Epicentre 42°5S. 25°0E.

A = +.668, B = +.312, C = -.676; D = +.423, E = -.906;  
G = -.612, H = -.286, K = -.737.

Doubtful. The observations of Sucre, La Paz, and Algiers would be suited by the epicentre 51°0S. 3°0E., as on 1920 Sept. 4d., with T, increased by 3min. But this would not suit other readings.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	77.5	256	—	—	21 57	+ 2	28.8	31.8
La Paz	81.0	256	13 42	+77	—	—	—	—
Algiers	81.8	344	—	—	e 19 42	?	e 28.8	30.4
Almeria	83.2	339	e 12 37	0	23 2	+ 3	38.8	43.4
Malaga	83.4	338	e 12 52	+14	—	—	—	—
Granada	83.8	338	i 12 34	- 7	1 22 51	[+ 2]	29.4	32.3
Tortosa	86.3	342	e 13 4	+ 9	e 23 1	[- 3]	e 32.4	34.4
Toledo	86.5	339	e 12 57	+ 1	e 23 37	+ 1	—	—
Florence	87.2	351	—	—	e 22 27	-76	—	33.4
Zagreb	88.7	355	e 14 5	+56	—	—	—	—
Zurich	91.0	350	e 14 9	+48	—	—	—	—
Strasbourg	92.3	350	e 14 16	+47	—	—	—	—
Paris	93.4	346	e 14 10	+36	—	—	31.4	35.4
De Bilt	96.1	349	e 14 36	+46	(e 28 27?)	?	e 28.4	—
Kew	96.6	345	e 13 27?	-25	—	—	31.4	—
Oxford	97.1	345	—	—	—	—	—	55.2
Pulkovo	102.4	4	e 16 3	+101	—	—	44.0	51.4
Leningrad	102.6	4	e 16 1	+98	—	—	e 35.8	54.2

Additional readings: Almeria MN = +47.8m. Leningrad MZ = +56.5m.  
Tortosa and De Bilt: Is L the S of the following shock ?

Aug. 7d. 0h. 19m. 24s. (XLI) } Epicentre 25°0N. 119°5E. (as on 6d. 22h.).  
1h. 13m. 24s. (XLI)  
5h. 55m. 30s. (XLII)

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
XLI Taihoku	E. 1.9	89	—	—	—	—	e 1.4	—
XLII	E. 1.9	89	—	—	—	—	e 1.4	—
XL Zi-ka-wel	6.4	15	e 1 43	+ 5	2 46	- 9	—	—
XLI	6.4	15	e 1 49	+11	2 48	- 7	—	—
XLII	6.4	15	e 1 50	+12	2 46	- 9	—	—
XL Manila	10.5	172	—	—	—	—	e 7.6	—
XL Osaka	16.8	51	7 59	?S	(7 59)	+46	—	—
XLI	16.8	51	5 21	+79	—	—	7.9	14.5
XLII	16.8	51	2 10	-112	—	—	—	—
XL Agana	N. 26.4	111	e 2 36	-196	—	—	—	—
XL Ekaterinburg	52.4	324	e 9 17	- 5	—	—	—	37.9
XLII Pulkovo	68.2	327	e 17 53	?	—	—	42.6	54.8
XLII	68.2	327	e 11 27	+22	(19 30)	-34	19.5	—
XLII Leningrad	68.2	327	—	—	—	—	44.0	45.7
XL De Bilt	84.1	326	—	—	—	—	e 47.6	58.5
XLI	84.1	326	—	—	—	—	e 47.6	55.4
XLII	84.1	326	—	—	—	—	e 47.5	55.2
XL Paris	87.3	324	—	—	23 36	[+26]	e 57.6	—
XLI	87.3	324	—	—	—	—	e 56.6	—
XL Granada	98.0	318	—	—	—	—	57.6	66.1

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Aug. 7d. 2h. 9m. 15s. Epicentre 25°·8N. 128°·0E. (as on Aug. 6d.).

A = -·554, B = +·709, C = +·435; D = +·788, E = +·616;  
G = -·268, H = +·343, K = -·900.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o		m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	5·9	263	—	—	—	e 1·4	—
Nagasaki		7·1	13	2 1	+13	(3 52)	+39	3·9 5·5
Hukuoka		8·0	15	2 45?	+44	—	—	—
Zi-ka-wei		8·0	315	1 50	-11	3 10	-27	— 5·1
Osaka		11·0	34	2 56	+12	(5 36)	+42	5·6 12·7
Manila		13·0	212	e 2 45?	-28	—	—	—
Hong Kong		13·1	257	3 5	-9	—	—	12·2
Agana		20·0	125	—	—	e 9 45	+82	—
Ekaterinburg		56·3	324	19 46	-2	17 26	-12	18·8 35·4
Platigorsk		68·9	310	—	—	—	—	41·8
Makeyevka		71·0	316	e 11 27	+4	e 20 31	-7	36·8 48·0
Leningrad		71·5	329	e 11 29	+2	—	—	33·8 46·2
Pulkovo		71·6	329	11 33	+6	e 20 49	+4	36·2 46·1
Upsala	N.	77·4	331	—	—	—	—	e 41·8 49·2
Vienna		84·0	322	e 12 36	-6	—	—	e 42·8 52·8
Hamburg		84·1	328	—	—	—	—	e 43·8 53·8
Graz		85·1	321	—	—	—	—	44·8
Zagreb		85·6	320	—	—	—	—	e 44·8 52·5
De Bilt		87·5	328	13 0	-2	—	—	e 45·8 56·1
Edinburgh		88·4	335	—	—	—	—	e 44·8
Strasbourg		88·5	325	—	—	—	—	45·8 56·2
Uccle		88·7	328	—	—	—	—	e 42·8
Zurich	N.	88·8	324	e 13 32	+23	—	—	—
Florence		89·5	319	—	—	—	—	e 34·8 45·8
Stonyhurst		89·6	333	—	—	—	—	e 50·8 58·8
Rocca di Papa		89·8	313	—	—	—	—	e 48·8 56·8
Kew		90·4	331	—	—	—	—	e 45·8 58·8
Moncalieri		90·8	323	e 12 36	-44	40 33	?	48·6 57·8
Paris		90·9	325	—	—	—	—	e 47·8
Tortosa	N.	97·5	324	—	—	—	—	e 45·8 64·4
Almeria		101·9	323	—	—	—	—	66·9
Granada		102·4	324	—	—	—	—	51·8 63·0
San Fernando		104·4	325	—	—	—	—	56·2 67·2
Ottawa		105·6	17	—	—	—	—	e 46·8
Toronto		106·2	20	—	—	—	—	55·8
La Paz		162·3	62	e 20 13	[+ 4]	—	—	—

Aug. 7d. 6h. 14m. 36s. Epicentre 34°·6N. 140°·7E. (as on 1926 Feb. 3d.).

A = -·637, B = +·521, C = +·568; D = +·633, E = +·774;  
G = -·439, H = +·360, K = -·823.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o		m. s.	s.	m. s.	s.	m.	m.
Tokyo		1·3	324	0 32	+12	—	—	—
Nagoya		3·2	281	0 52	+2	—	—	1·5 1·8
Osaka		4·3	272	1 16	+9	—	—	2·4 4·2
Mizusawa		4·5	358	1 12	+2	2 6	+2	—
Kobe		4·6	272	1 19	+8	—	—	2·3 2·5
Sumoto		4·8	268	1 24	+10	—	—	2·4 3·3
Hukuoka	N.	8·6	266	2 18	+8	(4 2)	+9	4·0 4·8
Nagasaki		9·2	263	e 2 14	-5	(4 5)	-3	4·1
Manila		26·8	227	e 5 24?	-32	—	—	—
Ekaterinburg		56·4	320	e 9 47	-1	e 17 26	-13	18·4 36·4
Kucino		68·5	325	—	—	e 20 8	0	36·2 44·4
Leningrad		69·6	331	11 14	-1	e 20 21	0	38·1 40·8
Pulkovo		69·8	331	11 17	+1	—	—	43·0
Makeyevka		72·5	318	—	—	e 20 50	-6	40·4 48·8
De Bilt		85·0	335	e 12 57	+9	e 23 4	-15	e 44·4 52·5
Zagreb		85·4	326	e 12 46	-4	e 22 18	—	e 49·4
Uccle		86·3	334	—	—	e 23 6	[+ 2]	e 44·4
Strasbourg		86·9	331	e 12 54	-4	e 23 24?	[+16]	30·4
Kew		87·4	339	e 13 9	+8	—	—	35·4
Florence		89·1	326	e 5 24?	—	—	—	—
Rocca di Papa		90·0	325	e 11 57	-79	—	—	e 57·5
Granada		100·9	334	—	—	—	—	e 42·4
San Fernando		102·5	335	—	—	—	—	64·4

For Notes see next page.

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NOTES TO AUG. 7d. 6h. 14m. 36s.

Additional readings: Osaka MN = +3.6m. Kobe MN = +2.8m. Sumoto  
 MZ = +2.4m., MN = +4.2m. Ekaterinburg MN = +32.8m., MZ =  
 +36.4m. Kucino e = +22m.38s., MN = +42.7m. Leningrad MZ =  
 +44.6m. Pulkovo MN = +44.5m. Makeyevka MN = +46.7m.  
 Zagreb e = +16m.23s. = PR<sub>1</sub>-9s., and +55m.24s. Strasbourg: Is L =  
 SR<sub>1</sub>? San Fernando MN = +68.9m.

1926 Aug. 7d. 9h. 8m. 0s. Epicentre 25°·0N. 119°·5E. (XLIII as above).

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Taihoku E.	1.9	89	—	—	e 1.2	—
Osaka	16.8	51	4 7	+ 5	7.2	—
Ekaterinburg	52.4	324	e 9 23	+ 1	—	34.9
Leningrad	68.2	327	—	—	39.5	45.7
Athens	79.2	307	—	—	e 36.0	36.7
De Bilt	84.1	326	—	—	e 48.0	55.4
Strasbourg	84.6	322	—	—	e 42.0	—
Florence	85.0	317	—	—	e 32.0	45.0
Rocca di Papa	85.1	314	29 43	?SR <sub>1</sub>	e 36.8	—
Kew	87.1	327	—	—	e 54.0	—
Paris	87.3	324	—	—	e 57.0	—
Granada	98.0	318	—	—	51.0	61.0

Notes:—Osaka L = S + 1s. Rocca di Papa L = SR<sub>1</sub>?

Aug. 7d. 9h. 36m. 40s. Epicentre 25°·8N. 128°·0E. (as at 2h.).

A = -554, B = +709, C = +435; D = +788, E = +616;  
 G = -268, H = +343, K = -900.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku E.	5.9	263	—	—	—	—	e 1.4	—
Zi-ka-wei	8.0	315	e 1 57	- 4	—	—	—	—
Osaka	11.0	34	3 3	+19	(5 34)	+40	5.6	14.8
Manila	13.0	212	e 3 20	+ 7	—	—	—	—
Tokyo	14.3	42	2 45	-45	—	—	—	—
Phu-Lien	20.3	260	—	—	—	—	10.3	—
Ekaterinburg	56.3	324	e 9 48	0	e 17 29	- 9	—	35.3
Kucino	69.0	324	—	—	—	—	35.0	42.8
Makeyevka	71.0	316	e 12 2	+39	e 20 20	-18	39.3	46.5
Pulkovo	71.6	329	9 45	-102	—	—	37.8	45.1
Hamburg	84.1	328	—	—	—	—	e 43.3	54.3
De Bilt	87.5	328	—	—	—	—	e 48.3	55.9
Edinburgh	88.4	335	—	—	—	—	e 50.3	—
Strasbourg	88.5	325	—	—	—	—	—	56.3
Uccle	88.7	328	—	—	—	—	—	48.3
Rocca di Papa	89.8	318	—	—	—	—	46.6	49.5
Paris	90.9	328	—	—	—	—	—	57.3
Tortosa	97.5	324	—	—	—	—	e 50.3	57.0
Granada	102.4	324	—	—	—	—	55.3	62.3
San Fernando	104.4	325	—	—	—	—	—	66.8

Aug. 7d. 11h. 3m. 40s. Epicentre 24°·0N. 124°·0E. (as on 6d. 15h.).

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Taihoku E.	2.5	294	—	—	e 2.1	—
Osaka	14.6	40	3 32	- 2	—	—
Irkutsk	32.0	337	e 6 40	- 7	15.3	—
Ekaterinburg	55.6	324	9 55	+12	—	35.4
Pulkovo	71.2	326	e 12 3	+39	38.3	45.2
Leningrad	71.2	326	—	—	40.3	46.4
De Bilt	87.2	327	—	—	e 47.3	—
Strasbourg	87.9	325	—	—	e 47.3	—
Uccle	88.3	327	—	—	e 46.3	—
Kew	90.1	329	—	—	e 53.3	—
Paris	90.5	326	—	—	e 54.3	—
Granada	101.4	320	—	—	e 57.3	—

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Aug. 7d. 11h. 32m. 42s. (XLIV) }  
 12h. 34m. 20s. (XLV) } Epicentre 25°-0N. 119°-5E. (as at 7h.).  
 17h. 5m. 36s. (XLVI) }  
 23h. 37m. 4s. (XLVII) }

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
XLIV	Taihoku	E.	1-9	39	—	—	—	e 1-4	—
XLV		E.	1-9	39	—	—	—	e 1-3	—
XLVI		E.	1-9	39	—	—	—	e 0-2	—
XLVII		E.	1-9	39	—	—	—	e 1-2	—
XLIV	Zi-ka-wei		6-4	15	e 2 4	+26	3 1 + 6	—	4-8
XLVI			6-4	15	e 0 10	?	0 52	?	—
XLVII			6-4	15	e 1 49	+11	2 52	- 3	—
XLIV	Manila		10-5	172	e 2 18?	-19	—	—	—
XLVII			10-5	172	e 2 56?	+19	—	—	—
XLIV	Phu-Lien		12-6	253	—	—	—	—	—
XLVII			12-6	253	—	—	—	—	—
XLIV	Osaka		16-8	51	3 7	-55	(5 44)	-89	5-7 17-3
XLV			16-8	51	3 5	-57	—	—	—
XLVI			16-8	51	3 52	-10	—	—	—
XLVII			16-8	51	1 33	?	—	—	8-2
XLIV	Irkutsk		29-5	341	e 6 18	- 5	e 11 22	- 4	19-3
XLV			29-5	341	e 6 11	-12	e 14 26	+180	17-7
XLVI			29-5	341	e 6 1	-22	e 11 27	+ 1	17-4
XLVII			29-5	341	e 6 3	-20	—	—	—
XLIV	Ekaterinburg		52-4	324	e 9 36	+14	e 16 56	+ 7	19-3 42-5
XLV			52-4	324	e 9 24	+ 2	—	—	e 27-7 34-9
XLVI			52-4	324	e 9 38	+16	e 16 45	- 4	22-4 35-0
XLVII			52-4	324	e 9 20	- 2	e 16 55	+ 6	— 34-8
XLVI	Makeyevka		66-2	314	—	—	—	—	42-4
XLVII			66-2	314	—	—	—	—	39-9 46-3
XLIV	Pulkovo		68-2	327	—	—	—	—	34-3 53-4
XLV			68-2	327	—	—	—	—	e 38-3 44-8
XLVI			68-2	327	—	—	e 20 56	+52	37-4 44-9
XLVII			68-2	327	—	—	e 28 16	‡SR <sub>2</sub>	e 38-4 44-7
XLIV	Leningrad		68-2	327	—	—	—	—	e 40-3 46-0
XLV			68-2	327	—	—	—	—	40-7 45-7
XLVI			68-2	327	—	—	—	—	e 35-2 44-9
XLVII			68-2	327	—	—	—	—	e 32-9 45-7
XLIV	Hamburg		80-8	325	—	—	—	—	e 45-3
XLVII			80-8	325	—	—	—	—	e 44-9
XLIV	De Bilt		84-1	326	—	—	—	—	e 47-3 56-8
XLV			84-1	326	—	—	—	—	e 47-7
XLVI			84-1	326	—	—	—	—	e 47-4 56-8
XLVII			84-1	326	—	—	—	—	e 46-9 55-4
XLV	Strasbourg		84-6	322	—	—	—	—	e 47-7
XLVI			84-6	322	—	—	—	—	e 47-4
XLVII			84-6	322	—	—	—	—	e 45-9
XLVI	Rocca di Papa		85-1	314	—	—	—	—	60-5
XLV	Uccle		85-2	324	—	—	—	—	e 47-7
XLVI			85-2	324	—	—	—	—	e 47-4
XLVII			85-2	324	—	—	—	—	e 46-9
XLIV	Edinburgh		85-7	332	—	—	—	—	e 56-3
XLV	Kew		87-1	327	—	—	—	—	e 55-7
XLVI			87-1	327	—	—	—	—	e 54-4
XLVII			87-1	327	—	—	—	—	e 52-9
XLV	Paris		87-3	324	—	—	—	—	e 56-7
XLVII			87-3	324	—	—	—	—	e 55-9
XLVI	Granada		98-0	318	—	—	—	—	57-4
XLVII			98-0	318	—	—	—	—	54-9
XLIV	San Fernando		100-0	318	—	—	—	—	63-3
XLVII			100-0	318	—	—	—	—	62-5
					—	—	—	—	67-8
					—	—	—	—	66-4

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Aug. 7d. 15h. 16m. 33s. Epicentre 24°·0N. 124°·0E. (as on Aug. 7d. 11h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku E.	2·5	294	—	—	—	—	e 1·4	—
Zi-ka-wei	7·5	343	1 54	0	3 25	+ 1	—	—
Osaka	14·6	40	5 18	18	(5 18)	-64	—	—
Irkutsk	32·0	337	e 6 27†	-20	—	—	17·4	—
Ekaterinburg	55·6	324	9 53	+10	17 32	+ 3	—	35·4
Makeyevka	69·8	315	—	—	—	—	e 40·2	—
Pulkovo	71·2	326	—	—	e 27 39	?	37·0	45·2
Leningrad	71·2	326	—	—	—	—	e 31·8	46·3
De Bilt	87·2	327	—	—	—	—	e 46·4	56·0
Strasbourg	87·9	325	—	—	—	—	e 47·4	—
Uccle	88·3	327	—	—	—	—	e 45·4	—
Kew	90·1	329	—	—	—	—	e 53·4	—
Paris	90·5	326	—	—	—	—	e 31·4	—
Granada	101·4	320	—	—	—	—	e 55·4	62·4

Aug. 7d. Readings also at 0h. (Agana), 1h. (Tokyo), 2h. (La Paz and Tokyo), 3h. (La Paz (2)), 5h. (Agana, Osaka, Pulkovo, Leningrad, Ekaterinburg, and De Bilt), 6h. (Tokyo (2) and Leningrad), 7h. (Taihoku), 8h. (Ekaterinburg), 10h. (Tokyo and Irkutsk), 12h. (De Bilt, near Oaxaca, and Tacubaya), 13h. (Pulkovo, Leningrad, Ekaterinburg, Irkutsk, Tokyo, Osaka, and near Athens), 14h. (Sucre, La Paz, De Bilt, Tokyo, and Matuyama), 16h. (Venice), 18h. (Irkutsk), 19h. (Pulkovo (2)), 21h. (Tokyo), 22h. (Pulkovo, Leningrad, Ekaterinburg, and Irkutsk).

Aug. 8d. 1h. 24m. 48s. (XLVIII) }  
 4h. 11m. 0s. (XLIX) }  
 6h. 49m. 0s. (L) }  
 8h. 20m. 42s. (LI) }  
 11h. 39m. 24s. (LII) }  
 14h. 57m. 42s. (LIII) }  
 16h. 47m. 6s. (LIV) }  
 20h. 41m. 9s. (LV) }

Epicentre 25°·0N. 119°·5E. (as on 7d. 23h.)

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
XLVIII Taihoku E.	1·9	89	—	—	—	—	e 1·5	—
XLIX E.	1·9	89	—	—	—	—	e 1·8	—
L E.	1·9	89	—	—	—	—	e 1·6	—
LI E.	1·9	89	—	—	—	—	e 2·6	—
LII E.	1·9	89	—	—	—	—	e 1·4	—
LIII E.	1·9	89	—	—	—	—	e 1·3	—
LIV E.	1·9	89	0 31	+ 2	—	—	—	—
LV E.	1·9	89	—	—	—	—	e 1·6	—
XLIX Zi-ka-wei	6·4	15	e 1 53	+15	e 2 52	- 3	—	4·5
L	6·4	15	e 1 52	+14	2 55	0	—	4·3
LI	6·4	15	e 1 46	+ 8	2 48	- 7	—	—
LII	6·4	15	e 1 58	+20	2 53	- 2	—	—
LIII	6·4	15	e 1 48	+10	2 54	- 1	—	—
LIV	6·4	15	0 34	-64	1 47	-67	—	3·2
XLVIII Osaka	16·8	51	3 39	-23	—	—	—	15·5
XLIX	16·8	51	3 54	- 8	—	—	—	—
L	16·8	51	3 15	-47	—	—	—	—
LII	16·8	51	1 3	?	—	—	—	—
LIII Irkutsk	29·5	341	e 6 5	-18	e 11 3	-23	17·3	—
LIII	29·5	341	—	—	—	—	e 15·6	—
LIV	29·5	341	—	—	—	—	e 14·9	—
LV	29·5	341	—	—	—	—	e 12·8	—
XLVIII Ekaterinburg	52·4	324	e 9 38	+16	—	—	—	27·8
L	52·4	324	e 9 18	- 4	—	—	—	34·9
LI	52·4	324	7 32	-110	—	—	—	35·8
LII	52·4	324	e 9 22	0	—	—	—	34·8
LIII	52·4	324	e 9 16	- 6	—	—	—	35·8
LIV	52·4	324	e 9 32	+10	—	—	—	34·7
LV	52·4	324	9 21	- 1	—	—	—	34·9

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M <sub>1</sub>
	°	°	m. s.	s.	m. s.	s.	m.	m <sub>1</sub>
XLVIII Makeyevka	66.2	314	—	—	—	—	39.2	46.6
XLVIII Pulkovo	68.2	327	—	—	e 23 47	1SR <sub>1</sub>	37.2	44.9
XLIX	68.2	327	—	—	—	—	e 39.0	—
L	68.2	327	—	—	—	—	e 37.0	44.6
LI	68.2	327	—	—	—	—	e 44.3	—
LII	68.2	327	—	—	—	—	e 39.3	44.3
LIII	68.2	327	—	—	—	—	42.6	—
LIV	68.2	327	—	—	—	—	e 41.9	—
LV	68.2	327	—	—	—	—	e 40.8	45.5
L Leningrad	68.2	327	—	—	—	—	40.3	45.8
LV	68.2	327	—	—	—	—	e 41.4	45.8
XLVIII De Bilt	84.1	326	—	—	—	—	e 48.2	55.7
XLIX	84.1	326	—	—	—	—	e 49.0	—
L	84.1	326	—	—	—	—	e 48.0	55.4
LI	84.1	326	—	—	—	—	e 49.3	—
LII	84.1	326	—	—	—	—	e 48.3	—
LIII	84.1	326	—	—	—	—	e 49.6	—
LIV	84.1	326	—	—	—	—	e 46.9	—
LV	84.1	326	—	—	—	—	e 47.8	—
XLVIII Strasbourg	84.6	322	—	—	—	—	e 48.2	—
L	84.6	322	—	—	—	—	e 48.0	—
XLVIII Uccle	85.2	324	—	—	—	—	48.2	—
L	85.2	324	—	—	—	—	48.0	—
LII	85.2	324	—	—	—	—	e 36.3	—
LIII	85.2	324	—	—	—	—	49.6	—
LV	85.2	324	—	—	—	—	47.8	—
XLVIII Kew	87.1	327	—	—	—	—	e 52.2	—
L	87.1	327	—	—	—	—	e 54.0	—
LII	87.1	327	—	—	—	—	e 45.3	—
XLVIII Paris	87.3	324	—	—	—	—	e 57.2	—
L	87.3	324	—	—	—	—	e 57.0	—
LII	87.3	324	—	—	—	—	e 48.3	—
L Granada	98.0	318	—	—	—	—	61.0	70.0
LI	98.0	318	—	—	—	—	e 75.3	—
LII	98.0	318	—	—	—	—	49.3	56.3
LV	98.0	318	—	—	—	—	e 77.8	—

Note.—Many of the L's seem to fit SR<sub>1</sub>.

Aug. 8d. Readings also at 1h. (Zi-ka-wel), 7h. (near Misusawa), 8h. (Taihoku and La Paz), 9h. (Uccle, De Bilt, and Ekaterinburg), 10h. (Taihoku), 11h. (De Bilt, Fordham, and Victoria), 12h. (Ottawa, Toronto, Chicago, and De Bilt), 13h. (Taihoku), 18h. (Tokyo and near Manila), 19h. (Tokyo (6) ), 22h. (near Tacubaya).

Aug. 9d. 1h. 0m. 36s. Epicentre 39° 0S. 74° 5W. (as on 1920 Dec. 10d.)

A = +.208, B = -.749, C = -.629; D = -.964, E = -.267;  
G = -.168, H = +.606, K = -.777.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	6.3	31	1 48	+12	—	—	—	—
La Plata	13.8	78	3 16	- 7	5 47	-16	6.9	—
Sucre	21.6	24	1 4 51	- 8	1 8 36	-19	10.8	13.0
La Paz	23.2	16	5 21	+ 2	e 9 35	+ 6	13.4	15.8
Granada	100.2	50	—	—	—	—	55.3	61.6
Uccle	113.2	41	—	—	—	—	e 60.4	—
De Bilt	114.2	41	—	—	—	—	e 60.4	—

No additional readings.

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**Aug. 9d. 3h. 39m. 22s. Epicentre 52°0N. 176°0W.**

A = -0.614, B = -0.043, C = +0.788; D = -0.070, E = +0.998;  
G = -0.786, H = -0.055, K = -0.616.

The large negative residuals near  $\Delta = 35^\circ 0$  are noteworthy in connection with other similar evidence. But it is to be remarked that Honolulu and Tucson suggest two shocks with an interval of a few seconds only.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	E.	23.7	62	15 21	-4	e 9 33	-5	10.3	16.5
	N.	23.7	62	—	—	19 38	0	10.4	17.0
Ootomari		27.0	275	5 53	-5	(10 38)	-3	10.6	—
Victoria		33.2	76	6 39	-19	11 54	-33	15.6	18.2
Honolulu	E.	33.7	150	6 38	-24	e 11 56	-40	15.4	18.3
	N.	33.7	150	6 38	-24	i 12 0	-36	15.1	22.2
Spokane		37.0	75	e 6 54	-36	e 12 33	-51	15.3	—
Osaka		38.4	265	e 7 37	-4	—	—	10.3	17.0
Berkeley	N.	39.5	90	e 7 23	-28	—	—	e 18.2	—
Lick	N.	40.3	90	e 7 42	-15	e 13 50	-21	e 21.8	23.9
Irkutsk		46.3	306	8 35	-7	14 55	-37	19.6	27.7
Zi-ka-wei		49.4	273	18 57	-6	16 15	+4	25.0	31.5
Tucson	E.	50.2	88	9 12	+4	e 16 20	-1	23.9	30.3
	N.	50.2	88	9 12	+4	16 21	0	e 22.4	27.4
Taihoku	E.	53.7	268	e 11 8	?	PR <sub>1</sub>	—	—	—
Chicago	E.	57.4	64	10 0	+5	17 38	-13	23.1	36.1
	N.	57.4	64	10 0	+5	17 38	-13	27.4	30.3
St. Louis		57.8	68	e 10 3	+5	i 17 58	+2	—	—
Ann Arbor		59.4	60	i 9 50	-18	e 18 50	+34	e 32.0	34.6
Hong Kong		60.3	271	10 18	+4	(18 38)	+11	18.6	—
Toronto		60.5	57	e 10 13	-3	e 18 23	-7	28.6	36.6
Ottawa		61.1	53	e 10 15	-5	e 18 24	-13	e 27.6	38.6
Ekaterinburg		61.7	330	i 10 27	+4	i 18 55	+11	—	41.3
Manila		62.1	260	e 10 33	+7	—	—	—	—
Ithaca		62.8	56	e 10 29	-2	19 2	+4	31.6	—
Fordham		65.3	56	10 48	+1	i 19 34	+5	31.6	42.6
Harvard		65.5	53	10 38	-10	19 32	+1	e 29.5	31.3
Apia		66.0	176	e 10 38	-13	e 18 38	-59	30.6	34.6
Leningrad		66.0	348	i 10 54	+3	i 19 46	+9	28.6	46.1
Pulkovo		66.2	348	10 56	+3	19 52	+12	30.6	44.6
Upsala	N.	67.6	354	e 11 1	-1	e 19 59	+2	e 34.6	39.7
Dyce		70.7	5	11 18	-3	20 31	-3	31.9	39.9
Edinburgh		71.9	5	e 12 8	+39	i 21 56	+67	—	53.6
Stonyhurst		74.0	5	e 11 53	+11	21 20	+6	—	42.3
Hamburg		74.3	357	e 11 49	+5	e 21 56	[+12]	e 30.6	50.6
Bidston		74.4	5	11 47	+2	e 21 23	+4	34.9	50.6
Simla	N.	75.3	304	e 21 32	?	(e 21 32)	+3	—	46.6
Makeyevka		75.8	339	11 57	+3	e 21 43	+2	35.6	46.9
De Bilt		75.9	359	11 54	0	e 21 38	+2	e 36.6	56.2
Oxford		76.0	5	—	—	i 21 45	+8	e 41.6	55.6
Kew		76.5	4	11 54	-4	e 21 43	0	34.6	52.7
Ueclé		77.2	0	e 12 1	-1	e 21 55	+4	e 36.6	51.0
Piatigorsk		78.2	333	—	—	e 21 8	-54	—	45.6
Paris		79.2	1	i 12 16	+2	e 22 17	+3	31.6	54.6
Vienna		79.2	353	e 12 14	0	e 23 5	+51	e 41.6	53.6
Strasbourg		79.4	358	12 16	+1	e 22 24	+8	39.6	43.6
Budapest		79.7	350	12 34	+17	e 22 38	+18	e 40.6	49.6
Graz		80.4	353	e 12 39	+18	e 23 45	+77	31.6	49.6
Zurich		80.6	357	e 12 19	-4	e 22 23	-7	—	—
Besançon		80.8	359	—	—	—	—	50.6	—
Zagreb		81.6	353	—	—	e 23 52	+70	e 41.6	58.6
Venice		82.3	355	12 26	-6	—	—	—	—
Moncalieri		83.0	358	e 12 26	-10	22 51	-6	38.6	50.2
Florence		84.0	355	12 33	-9	21 28	-100	37.6	55.1
Hyderabad		85.5	293	—	—	—	—	—	52.4
Rocca di Papa		86.0	354	e 12 47	-6	e 23 8	[+5]	e 52.3	—
Batavia		87.1	259	e 12 13	-47	—	—	—	—
Tortosa	E.	87.1	4	—	—	23 35	-7	e 40.6	60.9
	N.	87.1	4	e 12 55	-5	23 31	-11	e 38.6	60.7
Bombay		87.4	300	e 21 27	?	—	—	—	—
Toledo		87.9	7	e 12 58	-6	e 23 24	[+10]	e 38.0	50.7
Athens	E.	88.5	346	—	—	e 23 25	[+10]	e 49.5	55.6
Granada		90.6	7	i 13 10	-9	i 24 9	-11	42.0	65.7
Almeria		90.9	6	e 13 13	-8	e 23 47	[+14]	e 39.9	54.4

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	91.0	7	13 5	-16	e 23 31	[- 3]	—	—
Algiers	91.2	0	e 13 8	-14	22 44	[-51]	—	—
San Fernando	91.2	9	—	—	23 44	[+ 9]	—	—
Wellington	93.6	187	—	—	i 23 44	[- 6]	e 42.6	—
Melbourne	96.0	210	—	—	e 24 38	[+36]	—	51.3
La Paz	113.9	89	e 19 39	?PR <sub>1</sub>	—	—	57.6	76.1
Sucre	117.6	86	e 20 3	?PR <sub>1</sub>	32 35	?	58.6	77.4

Additional readings: Honolulu P<sub>0</sub>PN = +8m.58s., P<sub>0</sub>PE = +9m.14s., PSN = +12m.9s. = S - 27s., iPSE = +12m.14s. = S - 22s., P<sub>0</sub>SE = +13m.3s. iSR<sub>1</sub>E = +13m.59s., SR<sub>1</sub>N = +14m.0s., eSR<sub>1</sub>N = +14m.26s., eSR<sub>1</sub>E = +14m.31s.; T<sub>0</sub> = 3h.38m.59s. and 3h.39m.13s. Spokane ePE = +6m.59s., iE = +7m.6s., +7m.14s., and +7m.17s., PR<sub>1</sub>E = +7m.49s., PR<sub>2</sub>E = +8m.15s., PR<sub>2</sub>E = +8m.29s., eSN = +12m.36s., iS = +12m.42s. and +12m.48s. Osaka MN = +16.6m. Berkeley eE = +7m.46s. and +16m.32s. = SR<sub>1</sub> - 4s. Lick eN = +16m.8s. = SR<sub>1</sub> - 44s. Irkutsk PR<sub>1</sub> = +10m.35s. = PR<sub>1</sub> - 2s., MN = +26.9m., MZ = +28.5m. Zi-ka-wei PR<sub>1</sub> = +11m.3s. Tucson PR<sub>1</sub>E = +11m.14s., eSR<sub>1</sub>E = +19m.45s., SR<sub>1</sub>N? = +20m.23s., SR<sub>1</sub>N = +21m.36s.; T<sub>1</sub> = 3h.39m.30s. and 3h.39m.34s. Chicago P<sub>0</sub>PE = +11m.18s., PR<sub>1</sub>E = +12m.24s., PR<sub>1</sub>E = +12m.50s., S<sub>0</sub>S = +19m.40s., SR<sub>1</sub>N = +21m.38s. St. Louis iE = +18m.5s.; T<sub>2</sub> = 3h.39m.33s. Ann Arbor ePS = +19m.50s., LN = +33.3m.; T<sub>3</sub> = 3h.38m.12s. Toronto iSE = +18m.30s. and +18m.47s., MN = +37.9m.; T<sub>0</sub> = 3h.39m.27s. Ottawa eSR<sub>1</sub> = +23m.1s., MN = +37.1m.; T<sub>0</sub> = 3h.39m.30s. Ekaterinburg PR<sub>1</sub> = +14m.23s. = PR<sub>1</sub> + 0s. Fordham PR<sub>1</sub> = +14m.54s., PR<sub>1</sub> = +15m.25s., SR<sub>1</sub> = +23m.45s., SR<sub>2</sub> = +26m.53s.; T<sub>0</sub> = 3h.39m.30s. Harvard eP<sub>0</sub>PE? = +11m.11s., SR<sub>1</sub>E = +24m.22s., SR<sub>1</sub>E = +27m.20s. Leningrad iPR<sub>1</sub> = +15m.31s., MN = +41.5m., MZ = +41.6m. Pulkovo PR<sub>1</sub> = +13m.58s., PR<sub>2</sub> = +15m.12s., PR<sub>2</sub> = +16m.23s., SR<sub>1</sub> = +24m.50s., SR<sub>1</sub> = +27m.56s., MZ = +41.9m. Upsala ME = +46.1m. Edinburgh readings are given for 3d. Hamburg eLN = +26.6m. Simla eE = +21m.56s., ME = +45.1m. Makeyevka PS = +22m.25s., SR<sub>1</sub> = +27m.26s., SR<sub>2</sub> = +30m.43s., MN = +46.6m., MZ = +48.0m. De Bilt eSR<sub>1</sub>N = +27m.2s., eSR<sub>1</sub>N = +31m.5s., MN = +52.8m., MZ = +52.9m. Uccle SR<sub>1</sub> = +27m.4s., MN = +54.0m. Strasbourg PS = +22m.53s., eSR<sub>1</sub> = +28m.8s. Budapest MN = +56.2m. Graz MN = +42.7m. Zagreb e = +23m.15s., eL = +44.1m. Rocca di Papa i = +24m.41s. Athens eE = +23m.49s., eLE = +37.6m., MN = +60.6m. Almeria MN = +55.0m. San Fernando MN = +66.1m. Sucre PR<sub>2</sub> = +27m.1s.; if all the readings are decreased by 4min. we should have eP = +16m.3s. = P + 31s., PR<sub>1</sub> = +23m.1s. = PR<sub>1</sub> - 23s., S = +28m.35s. = S + 4s.

Aug. 9d. 14h. 2m. 20s. Epicentre 24° 0N. 124° 0E. (as on Aug. 7d.).

A = -511, B = +757, C = +407; D = +829, E = +559;  
G = -228, H = +337, K = -914.

The European observations are puzzling and suggest another shock; but no satisfactory hypothesis has been evolved. See also Aug. 6d. 6h.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Talhoku	E.	2.5	294	2 38	!L	—	(2.6)	—
Zi-ka-wei		7.5	343	2 36	+42	e 4 22	+58	—
Hong Kong		9.2	262	4 0	!S	(4 0)	- 8	7.2 16.2
Manila		9.8	197	e 5 13	!L	—	—	(e 5.2)
Nagasaki		10.1	29	2 56	+25	—	—	5.5 5.7
Hukuoka		11.1	29	2 56	+10	4 27	-30	5.8 6.3
Sumoto		14.0	40	e 3 29	+ 3	(6 20)	+12	6.3 16.0
Kobe		14.4	40	e 5 40	!S	(e 5 40)	-38	e 14.9 16.5
Osaka		14.6	40	3 24	-10	—	—	16.2
Nagoya		15.8	42	3 53	+ 4	—	—	—
Phu-Lien		16.4	262	—	—	—	—	11.7 21.0
Ootomari		27.2	29	e 19 23	!L	—	—	(e 19.4)
Irkutsk		32.0	337	e 7 18	+31	e 13 12	+64	18.7 31.7
Simla	N.	41.8	292	—	—	—	—	e 21.0
Hyderabad		42.9	273	—	—	—	—	37.2
Kodaikanal		46.4	260	28 4	!L	—	—	(28.1)
Bombay		47.6	276	—	—	—	—	e 28.7
Ekaterinburg		55.6	324	—	—	e 17 23	- 6	29.7 42.8
Perth		56.5	190	3 20	!	8 0	!	11.7 12.5

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	67.3	310	—	—	—	—	41.7	—
Makeyevka	69.8	315	—	—	e 21 26	+62	39.7	57.0
Pulkovo	71.2	326	e 12 25	+61	e 19 20	-80	38.7	52.8
Leningrad	71.2	326	e 12 22	+58	e 19 13	-87	39.7	53.8
Upsala	77.2	330	—	—	—	—	e 41.7	57.2
Budapest	81.9	320	e 30 40	?	?	?	e 48.7	57.8
Vienna	83.2	321	e 20 40?	?	e 30 40?	?	—	49.7
Hamburg	83.9	327	e 21 40?	?	e 32 40?	?SR <sub>2</sub>	e 46.7	57.7
Graz	84.2	320	e 14 42	+119	—	—	45.7	60.3
Zagreb	84.5	319	e 31 14	?	—	—	e 41.5	—
Dyce	87.1	335	—	—	—	—	25.0	57.0
De Bilt	87.2	327	e 20 40?	?PR <sub>2</sub>	—	—	e 47.7	57.1
Strasbourg	87.9	325	e 20 40?	?PR <sub>2</sub>	—	—	37.7	58.6
Zurich	88.0	322	e 20 7	?PR <sub>2</sub>	—	—	—	—
Uccle	88.3	327	—	—	e 23 40?	-15	e 41.7	57.6
Edinburgh	88.4	333	e 32 40?	?SR <sub>1</sub>	—	—	47.7	57.2
Florence	88.5	318	—	—	e 22 40	[-38]	—	47.7
Rocca di Papa	88.6	316	e 2 55	?	—	—	e 56.9	64.4
Stonyhurst	89.5	332	e 13 40?	+27	—	—	e 48.7	58.7
Moncalieri	89.9	321	24 23	?S (24 23)	—	+10	46.1	65.2
Kew	90.1	329	—	—	e 23 40?	[+11]	47.7	58.7
Bidston	90.1	332	24 40?	?S (24 40?)	—	+25	44.7	66.9
Paris	90.5	326	—	—	e 27 40?	?	51.7	64.7
Tortosa	N. 96.6	321	—	—	—	—	e 49.7	63.7
Algiers	97.6	317	—	—	—	—	—	61.7
Toledo	99.9	323	—	—	—	—	e 52.5	65.8
Granada	101.4	320	—	—	e 25 9	-60	53.7	65.6
San Fernando	103.4	321	—	—	—	—	61.7	75.2
Chicago	108.0	25	—	—	—	—	e 56.4	78.7
Ottawa	108.2	14	—	—	—	—	e 48.7	—
Toronto	E. 109.0	19	—	—	—	—	55.9	—

Additional readings: Hong Kong S = +6m.30s. Manila L = +11.7m.  
 Nagasaki MN = +7.0m. Sumoto MN = +13.8m. Kobe MN = +16.2m.  
 Osaka MN = +16.9m. Phu-Lien MN = +20.6m. Irkutsk MZ = +28.1m., MN = +29.9m. Simla eE = +25m.46s. Ekaterinburg e = +22m.9s. and +25m.49s., i = +29m.29s., MN = +40.5m., MZ = +42.9m.  
 Makeyevka e = +16m.45s. and +19m.14s., i = +24m.7s. and +28m.12s., MN = +53.8m. Pulkovo e = +28m.20s. and +35m.42s., MN = +49.6m., MZ = +52.8m. Leningrad e = +28m.19s., MN = +49.6m., MZ = +54.0m.  
 Upsala MN = +51.4m. Budapest e = +40m.40s.?, MN = +57.2m.  
 Hamburg MN = +54.7m., MZ = +60.7m. Zagreb e = +36m.4s., +50m.3s. and +55m.10s. De Bilt e = +24m.10s. = S +27s., +41m.22s., MN = +57.8m., MZ = +63.9m. Strasbourg MN = +59.7m., MZ = +62.6m. Moncalieri S? = +34m.19s. = SR<sub>1</sub>-21s. Kow MN = +58.1m. Paris MN = +58.7m. San Fernando MN = +75.7m. Chicago eLN = +60.1m.

Aug. 9d. 15h. 55m. 6s. (LVI) } Epicentre 25°-0N. 119°-5E. (as on 8d. 20h.).  
 16h. 50m. 12s. (LVII) }  
 17h. 34m. 0s. (LVIII) }

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
LVI Taihoku	E. 1.9	89	1 16	?L	—	—	(1.3)	—
LVII	E. 1.9	89	0 43	+14	—	—	—	—
LVIII	E. 1.9	89	—	—	—	—	e 1.2	—
LVI Zi-ka-wel	6.4	15	e 1 54	+16	3 29	+34	—	—
LVII	6.4	15	e 1 28	-10	3 5	+10	—	8.2
LVIII	6.4	15	e 1 44	+6	e 2 29	-26	—	—
LVI Manila	10.5	172	—	—	—	—	e 6.3	—
LVII	10.5	172	e 4 48?	?S	(e 4 48?)	+5	—	—
LVI Phu-Lien	12.6	253	—	—	—	—	9.9	—
LVI Osaka	16.8	51	5 5	+63	(7 53)	+40	7.9	—
LVII	16.8	51	5 41	+99	—	—	8.1	—
LVI Irkutsk	29.5	341	e 6 15	-8	e 11 25	-1	17.9	21.0
LVII	29.5	341	—	—	—	—	17.8	20.5
LVIII	29.5	341	—	—	—	—	15.0	—
LVI Ekaterinburg	52.4	394	9 33	+11	—	—	—	34.8
LVIII	52.4	324	e 8 54	-28	—	—	—	34.5

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
LVI Makeyevka	66.2	314	—	—	—	—	e 38.2	53.4
LVII	66.2	314	—	—	—	—	e 38.1	46.2
LVI Pulkovo	68.2	327	—	—	—	—	e 35.9	41.6
LVII	68.2	327	—	—	—	—	e 35.8	40.9
LVIII	68.2	327	—	—	—	—	e 43.0	—
LVI Leningrad	68.2	327	—	—	—	—	37.1	47.6
LVII	68.2	327	—	—	—	—	e 38.0	44.9
LVIII	68.2	327	—	—	—	—	e 41.8	—
LVI De Bilt	84.1	326	—	—	—	—	e 46.9	56.1
LVII	84.1	326	—	—	—	—	e 46.8	55.6
LVIII	84.1	326	—	—	—	—	e 52.0	—
LVI Strasbourg	84.6	322	—	—	—	—	e 47.9	—
LVII	84.6	322	—	—	—	—	e 47.8	—
LVIII	84.6	322	—	—	—	—	—	53.0
LVI Florence	85.0	317	—	—	—	—	—	41.4
LVI Rocca di Papa	85.1	314	—	—	—	—	e 63.9	64.2
LVI Uccle	85.2	324	—	—	—	—	e 47.9	—
LVII	85.2	324	—	—	—	—	e 45.8	—
LVIII	85.2	324	—	—	—	—	—	52.0
LVI Stonyhurst	86.7	330	—	—	—	—	e 56.9	—
LVI Kew	87.1	327	—	—	—	—	e 53.9	—
LVII	87.1	327	—	—	—	—	e 50.8	—
LVI Paris	87.3	324	—	—	—	—	e 55.9	—
LVII Oxford	87.4	328	—	—	—	—	e 59.8	71.8
LVI Granada	98.0	318	—	—	—	—	55.9	62.9
LVII	98.0	318	—	—	—	—	57.8	64.8

Aug. 9d. 21h. 40m. 12s. Epicentre 28°-5S. 71°-5W. (as on 1924 Dec. 18d.).

A = +.279, B = -.833, C = -.477 ; D = -.948, E = -.317 ;  
G = -.151, H = +.453, K = -.879.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucro	11.1	32	2 59	+13	14 57	0	5.8	5.9
La Paz	12.4	15	3 1	-4	5 20	-9	5.9	7.2
La Plata	13.2	122	13 6	-10	5 28	-21	6.3	—
Ottawa	74.0	359	—	—	—	—	e 41.8	—
San Fernando	89.3	48	—	—	—	—	—	49.3
Granada	91.4	49	—	—	1 29 57	†SR <sub>1</sub>	42.5	—
Tortosa	96.1	47	—	—	—	—	e 36.8	48.0
Algiers	96.5	51	—	—	—	—	46.8	52.8
Kew	101.4	38	—	—	e 40 30	†SR <sub>1</sub>	45.8	—
Paris	101.5	41	—	—	—	—	e 40.3	—
Stonyhurst	101.6	36	—	—	—	—	e 46.8	50.3
Edinburgh	102.3	33	—	—	—	—	e 46.8	—
Moncalieri	102.8	46	—	—	e 35 54	†SR <sub>1</sub>	49.1	—
Dyce	103.5	31	—	—	—	—	e 41.3	49.2
Uccle	103.6	39	—	—	—	—	e 46.8	—
Strasbourg	104.4	43	—	—	e 40 48?	†SR <sub>2</sub>	49.8	—
Rocca di Papa	104.5	51	e 30 2	?	140 10	?	e 51.5	56.0
Florence	104.5	49	—	—	e 36 58	?	—	50.8
De Bilt	104.6	38	—	—	e 40 58	†SR <sub>2</sub>	e 47.8	55.4
Pulkovo	120.2	36	e 36 11	†SR <sub>1</sub>	44 8	?	e 53.8	66.9
Leningrad	120.2	36	—	—	—	—	e 52.3	72.6
Makeyevka	123.4	49	—	—	e 43 56	†SR <sub>2</sub>	60.8	68.7
Irkutsk	156.0	6	—	—	—	—	83.8	—

Additional readings: San Fernando MN = +47.8m. Granada i = +31m.51s.  
e = +39m.22s. Moncalieri S? = +41m.35s. -SR<sub>2</sub> + 31s. Uccle e = +40m.34s.

Aug. 9d. Readings also at 1h. (Nagasaki and Tokyo), 3h. (Nagasaki), 4h. (Nagoya, Osaka, Kobe, Sumoto, and near Lick), 5h. (Granada), 6h. (Ekaterinburg and Nagasaki), 7h. (Nagasaki), 8h. (Nagasaki and near Toyooka), 12h. (Ekaterinburg, Irkutsk, and Nagasaki), 13h. (Ekaterinburg, Athens, Azores, Irkutsk, and Tacubaya), 14h. (Ekaterinburg, Nagasaki, Hukuoka and near Taihoku), 16h. (Nagasaki, Rio Tinto, and Taihoku), 17h. (Nagasaki), 18h. (Manila, Taihoku, and Irkutsk), 19h. (Irkutsk and Platigorsk), 21h. (Sydney), 22h. (La Paz and Sucro).

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Aug. 10d. 0h. 25m. 0s. Epicentre 24°·0N. 124°·0E. (as on Aug. 9d. 14h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	2·5	294	—	—	—	—	e 1·9	—
Zi-ka-wei		7·5	343	1 53	- 1	3 22	- 2	—	5·0
Manila		9·8	197	e 4 37	‡S	(e 4 37)	+14	10·2	—
Hukuoka		11·1	29	2 8	-38	—	—	5·6	—
Osaka		14·6	40	2 12	-82	—	—	—	9·0
Irkutsk		32·0	337	6 28	-19	e 11 40	-28	16·0	20·5
Ekaterinburg		55·6	324	e 9 46	+ 3	e 17 31	+ 2	—	35·1
Makeyevka		69·8	315	—	—	e 20 21	- 3	35·0	47·4
Pulkovo		71·2	326	e 11 31	+ 7	e 20 34	- 6	34·0	46·2
Leningrad		71·2	326	e 11 30	+ 6	—	—	e 28·5	45·2
Leiberg		77·9	319	e 45 54	‡L	—	—	(e 45·9)	47·0
Vienna		83·2	321	e 46 46	‡L	—	—	(e 46·8)	50·5
Hamburg		83·9	327	—	—	—	—	e 45·0	54·0
Zagreb		84·5	319	—	—	—	—	e 48·1	—
De Bilt		87·2	327	—	—	—	—	e 48·0	55·9
Strasbourg		87·9	325	—	—	—	—	e 46·0	—
Zurich	N.	88·0	322	—	—	—	—	e 50·3	—
Uccle		88·3	327	—	—	—	—	e 46·0	—
Edinburgh		88·4	333	—	—	—	—	e 53·0	—
Florence		88·5	318	—	—	—	—	e 46·0	51·0
Rocca di Papa		88·6	316	—	—	—	—	e 48·7	—
Stonyhurst		89·5	332	—	—	—	—	e 52·0	59·0
Moncalieri		89·9	321	—	—	—	—	49·7	—
Kew		90·1	329	—	—	—	—	e 47·0	—
Oxford		90·4	330	—	—	—	—	e 62·0	—
Paris		90·5	326	—	—	—	—	e 51·0	—
Tortosa	N.	96·6	321	—	—	—	—	e 50·0	68·6
Granada		101·4	320	—	—	—	—	50·0	62·6
San Fernando		103·4	321	—	—	—	—	—	67·5
Ottawa		108·2	14	—	—	—	—	e 57·0	—

Aug. 10d. 13h. 41m. 28s. Epicentre 25°·0N. 119°·5E. (LIX as on 9d. 17h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	1·9	89	—	—	—	—	e 2·0	—
Hong Kong		5·5	242	—	—	—	—	—	10·0
Zi-ka-wei		6·4	15	e 1 35	- 3	3 5	+10	—	4·9
Manila		10·5	172	—	—	e 4 9	-34	—	—
Osaka		16·8	51	1 25	‡	—	—	—	11·7
Irkutsk		29·5	341	e 6 10	-13	e 11 27	+ 1	—	—
Ekaterinburg		52·4	324	—	—	—	—	e 39·5	60·3
Makeyevka		66·2	314	—	—	—	—	37·5	47·5
Pulkovo		68·2	327	—	—	e 20 13	+33	36·5	44·9
Leningrad		68·2	327	—	—	e 28 47	‡SR <sub>2</sub>	33·7	44·9
Upsala		74·3	329	—	—	—	—	e 42·5	—
Hamburg		80·8	325	—	—	—	—	e 45·5	53·5
De Bilt		84·1	326	—	—	—	—	e 46·5	55·7
Strasbourg		84·6	322	—	—	—	—	e 46·5	—
Uccle		85·2	324	—	—	—	—	e 45·5	—
Edinburgh		85·7	324	—	—	—	—	e 49·5	—
Florence		85·0	317	—	—	(29 30)	‡SR <sub>1</sub>	29·5	43·5
Kew		87·1	327	—	—	—	—	e 48·5	—
Paris		87·3	324	—	—	—	—	e 50·5	57·5
Granada		98·0	318	—	—	—	—	e 52·5	61·5
Sán Fernando		100·0	318	—	—	—	—	—	67·0

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Aug. 10d. 17h. 34m. 48s. Epicentre 25°-0N. 119°-5E. (LX as above).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E. 1.9	89	—	—	—	—	e 1.4	—
Hong Kong	5.5	242	—	—	—	—	—	11.2
Zi-ka-wei	6.4	15	e 1 34	- 4	3 8	+13	—	—
Osaka	16.8	51	4 11	+ 9	—	—	—	13.4
Irkutsk	29.5	341	e 6 18	- 5	e 11 25	- 1	17.2	—
Ekaterinburg	52.4	324	e 9 34	+12	—	—	—	35.0
Kucino	64.9	322	—	—	—	—	36.0	—
Makeyevka	66.2	314	—	—	e 24 34	?SR <sub>1</sub>	43.2	—
Pulkovo	68.2	327	—	—	—	—	e 36.2	—
Leningrad	68.2	327	—	—	—	—	39.4	45.8
Hamburg	80.8	325	—	—	—	—	e 52.2	—
De Bilt	84.1	326	—	—	—	—	e 48.2	—
Strasbourg	84.6	322	—	—	—	—	e 50.2	—
Uccle	85.2	324	—	—	—	—	e 48.2	—
Kew	87.1	327	—	—	—	—	e 55.2	—
Paris	87.3	324	—	—	—	—	e 56.2	—
Granada	98.0	318	—	—	—	—	e 56.2	62.2
San Fernando	100.0	318	—	—	—	—	—	65.7

Aug. 10d. 21h. 16m. 20s. Epicentre 28°-0S. 163°-5W. (as on 1925 Aug. 1d.).

A = -.846, B = -.251, C = -.469; D = -.284, E = +.959;  
G = +.450, H = +.133, K = -.883.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	16.1	330	e 4 40?	+47	—	—	—	7.7
Wellington	22.2	227	—	—	—	—	(e 17.8)	—
Riverview	39.0	250	e 7 49	+ 3	—	—	e 14.6	17.4
Adelaide	49.2	246	e 6 58	-123	e 14 8?	-121	e 20.4	26.4
Honolulu	E. 49.6	7	—	—	e 15 58	-16	e 23.1	33.3
N.	49.6	7	—	—	e 15 46	-28	e 23.8	32.7
Tucson	E. 78.3	43	—	—	e 22 10	+ 6	e 41.9	45.3
Chicago	E. 98.7	46	—	—	—	—	53.7	57.5
Toronto	E. 105.0	47	—	—	—	—	59.4	—
Ottawa	108.0	47	(e 21 40?)	?PR <sub>1</sub>	—	—	61.7	—
Irkutsk	113.1	319	e 15 54	+42	e 27 33	-22	36.7	—
Ekaterinburg	137.7	325	—	—	e 28 25	?PR <sub>1</sub>	43.7	—
Leningrad	146.7	347	—	—	—	—	65.9	—
Pulkovo	146.9	347	e 19 39	[-12]	—	—	71.7	84.6
Kucino	148.3	337	e 22 38	?PR <sub>1</sub>	—	—	—	—
Edinburgh	148.8	23	e 49 40	?SR <sub>1</sub>	—	—	e 88.7	—
Kew	153.4	24	e 19 40?	[-20]	—	—	47.7	89.5
Makeyevka	153.9	326	e 19 44	[-17]	—	—	e 83.7	94.3
De Bilt	154.4	16	e 20 3	[+ 2]	—	—	e 40.7	92.7
Uccle	155.4	19	e 23 40?	?PR <sub>1</sub>	—	—	—	—
Paris	156.5	24	e 17 40?	?	—	—	e 79.7	—
Strasbourg	158.4	16	e 23 40?	?PR <sub>1</sub>	—	—	—	—
San Fernando	159.1	60	25 22	?PR <sub>1</sub>	36 10	?	—	91.7
Granada	160.8	57	—	—	—	—	81.7	86.7
Tortosa	N. 161.7	42	(e 20 40?)	[+31]	—	—	e 84.7	95.3
Florence	163.7	14	—	—	—	—	e 79.7	90.7

Additional readings and notes: Wellington eL = +19.7m.; all readings are given for 20h. Riverview MN = +17.9m. Adelaide MN = +23.2m. Honolulu eN = +18m.46s. Tucson eLN = +42.7m. Irkutsk e = +24m.52s. = PR<sub>1</sub> + 9s. Ekaterinburg e = +31m.17s. = S + 27s. ? Pulkovo e = +22m.33s. and +23m.16s. = PR<sub>1</sub> - 1s. MN = +84.2m. Makeyevka MN = +33.6m. San Fernando MN = +93.2m. Tortosa eSN is given as L for earlier shock.

Aug. 10d. 23h. 51m. 40s. Epicentre 25°-0N. 119°-5E. (LXI as at 17h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	6.4	15	e 1 41	+ 3	2 52	- 3	—	—
Irkutsk	29.5	341	—	—	e 11 37	+11	e 16.7	—
Ekaterinburg	52.4	324	e 9 11	-11	—	—	—	34.4
Leningrad	68.2	327	—	—	—	—	e 43.3	—
De Bilt	84.1	326	—	—	—	—	e 55.3	—

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Aug. 10d. Readings also at 1h. (near Makeyevka), 4h. (Oxford), 6h. (Manzanillo), 7h. (La Paz and Sucre), 8h. (Irkutsk, Pulkovo, and Leningrad), 9h. (Manila), 14h. (Hukuoka), 17h. (La Paz), 18h. (La Paz and near Athens), 21h. (Granada), 23h. (Irkutsk and Pulkovo).

Aug. 11d. 5h. 47m. 30s. Epicentre 29°·5N. 101°·0E.

A = -·166, B = +·854, C = +·492; D = +·982, E = +·191;  
G = -·094, H = +·483, K = -·870.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	10·1	148	e 2 43	+12	e 5 39	+67	5·9	—
Hong Kong	13·8	118	6 20	‡S	(6 20)	+17	7·5	7·8
Zi-ka-wei	17·7	80	e 7 28	‡S	(e 7 28)	- 5	(e 9·0)	—
Taihoku	18·8	99	—	—	—	—	e 9·2	—
Simla	20·6	281	e 8 54	‡S	(e 8 54)	+18	—	—
Irkutsk	22·9	5	e 5 10	- 6	19 18	- 5	12·5	12·9
Manila	23·7	125	e 5 14	-11	—	—	—	—
Bombay	27·7	254	e 11 46	‡S	(e 11 46)	+52	15·4	16·6
Osaka	29·5	71	12 6	‡S	(12 6)	+40	17·3	19·0
Ekaterinburg	39·2	326	e 7 38	-10	e 13 50	- 4	—	22·0
Makeyevka	50·9	311	—	—	e 16 14	-16	27·5	35·0
Pulkovo	55·2	325	9 45	+ 5	17 30	+ 6	27·5	31·6
Leningrad	55·2	325	—	—	—	—	30·0	33·4
Hamburg	67·2	320	—	—	—	—	e 30·5	—
Rocca di Papa	69·7	307	—	—	—	—	e 38·9	41·4
Florence	69·9	320	e 14 0	‡PR <sub>1</sub>	(28 30)	‡SR <sub>2</sub>	28·5	39·5
Strasbourg	70·4	316	—	—	—	—	32·5	—
De Bilt	70·5	320	—	—	—	—	e 35·5	44·6
Uccle	71·4	319	—	—	—	—	e 65·5	69·5
Edinburgh	73·1	325	—	—	—	—	e 40·5	—
Paris	73·4	318	—	—	—	—	e 39·5	—
Kew	73·8	321	—	—	—	—	e 37·5	—
Granada	82·9	310	—	—	—	—	36·5	42·1
San Fernando E.	85·1	310	—	—	—	—	—	51·0

Additional readings: Hong Kong S = +7m.20s. Zi-ka-wei L recorded as eS. Irkutsk iP = +5m.14s., MNZ = +13·7m. Bombay S = +14m.11s.  
Osaka MN = +19·2m. Ekaterinburg PR<sub>1</sub> = +9m.12s., MN = +22·3m., MZ = +23·8m. Makeyevka MN = +33·0m. Pulkovo SR<sub>1</sub> = +21m.48s., SR<sub>2</sub> = +24m.18s. = SR<sub>2</sub> + 6s. De Bilt MN = +39·3m. San Fernando MN = +52·0m.

Aug. 11d. 12h. 36m. 40s. Epicentre 25°·0N. 119°·5E. (LXII as on 10d. 23h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1·9	89	—	—	—	—	e 1·3	—
Zi-ka-wei	6·4	15	e 1 42	+ 4	2 50	- 5	—	—
Irkutsk	29·5	341	e 3 32	-171	—	—	e 14·6	—
Ekaterinburg	52·4	324	e 8 48	-34	—	—	—	34·7
Pulkovo	68·2	327	—	—	—	—	—	41·3
Leningrad	68·2	327	—	—	—	—	—	39·8
De Bilt	84·1	326	—	—	—	—	e 54·3	—

Aug. 11d. Readings also at 4h. (near Sumoto), 6h. (Matuyama), 7h. (La Paz), 11h. (Irkutsk), 16h. (Tokyo and Cape Town), 17h. (Cape Town), 19h. (Agana), 22h. (Cape Town), 23h. (Sucre, near La Paz, and near Tacubaya).

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Aug. 12d. 22h. 17m. 48s. Epicentre 22°·5S. 66°·0W.

A = +·376, B = -·844, C = -·383; D = -·914, E = -·407;  
G = -·156, H = +·350, K = -·924.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	6·4	341	1 38	0	12 53	- 2	13·1	3·2
Santiago	11·7	200	2 55	0	—	—	—	—
La Plata	14·2	152	13 40	+11	6 48	+35	8·3	—
Tacubaya	53·0	320	8 34	-52	16 11	-45	—	—
Toronto	67·3	350	—	—	e 20 17	+23	33·2	—
Ottawa	68·5	354	e 10 50	-18	i 19 50	-18	e 31·2	—
San Fernando	81·6	45	—	—	i 22 57	+15	—	39·2
Malaga	82·9	46	12 44	+ 9	23 8	+12	—	—
Granada	83·7	46	12 38	- 2	22 59	- 7	42·7	46·4
Almeria	84·2	46	12 47	+ 3	i 23 21	+10	—	53·2
Toledo	85·0	43	e 12 41	- 7	23 5	-14	e 38·4	—
Algiers	88·0	49	e 13 0	- 5	23 50	- 2	—	—
Tortosa	88·4	44	—	—	23 26	[+ 8]	e 34·2	41·1
Oxford	93·2	34	—	—	—	—	—	50·7
Kew	93·6	34	e 13 33	- 3	e 23 48	[- 2]	37·2	—
Paris	93·7	39	i 13 35	- 1	—	—	—	—
Edinburgh	94·6	30	—	—	i 23 54	[- 1]	50·2	—
Uccle	95·7	38	e 13 42	- 5	e 23 55	[- 6]	e 42·2	—
Strasbourg	96·6	40	e 13 49	- 3	(31 12)	?SR <sub>1</sub>	31·2	—
De Bilt	96·8	37	e 13 50	- 3	e 24 8	[+ 1]	e 41·2	—
Honolulu	99·8	290	e 17 19	?PR <sub>1</sub>	e 26 2	+ 7	44·3	—
Hamburg	100·1	35	e 17 54	?PR <sub>1</sub>	e 24 26	[+ 2]	e 47·2	—
Zagreb	100·6	44	e 13 12?	-61	e 24 30	[+ 3]	—	—
Vienna	101·8	41	e 18 12?	?PR <sub>1</sub>	—	—	—	—
Pulkovo	112·4	31	—	—	—	—	55·2	61·6
Leningrad	112·4	31	e 16 38	?	e 18 56	[?P]	57·0	61·6
Makeyevka	115·7	45	e 20 9	?PR <sub>1</sub>	e 25 29	[- 2]	49·2	68·9
Ekaterinburg	128·5	33	e 19 1	[-14]	—	—	33·2	70·3
Irkutsk	149·3	10	e 19 36	[-19]	(e 23 12?)	?PR <sub>1</sub>	e 23·2	—

Additional readings and notes: La Paz iPN = +1m.40s., i = +1m.53s., +2m.20s., and +2m.30s.; T<sub>0</sub> = 22h.17m.50s. Toronto iE = +20m.57s. Granada i = +12m.48s. and +13m.37s. Almeria MN = +49·1m. Tortosa SE = +23m.56s. (O-C = 0s.). De Bilt ePR<sub>1</sub>Z = +17m.50s. San Fernando MN = +24·2m. Zagreb e = +13m.12s. ? = PR<sub>1</sub> - 6s. Pulkovo ePR<sub>1</sub> = +19m.28s., PS = +29m.4s., SR<sub>1</sub> = +35m.0s., MZ = +62·3m., MN = +70·2m. Leningrad e = +28m.48s., MZ = +61·7m. Makeyevka e = +29m.39s. Ekaterinburg e = +21m.27s. = PR<sub>1</sub> + 8s., +28m.7s., and +31m.25s., i = +22m.20s. and +22m.49s., MN = +70·9m., MZ = +71·1m.

Aug. 12d. Readings also at 2h. and 3h. (near Manzanillo), 4h. (Zurich and Cape Town (3)), 5h. (Cape Town and Irkutsk), 6h. (Makeyevka and Irkutsk), 8h. (Tokyo and near Sumoto), 9h. (Sucre, near La Paz, Tokyo, and near Mizusawa), 10h. (Simla, Irkutsk, and near Algiers), 11h. (Nagoya, near Kobe, Sumoto, and near Batavia), 12h. (Ottawa and Victoria), 16h. (Edinburgh, Kew, and Granada), 17h. (De Bilt, Paris, Strasbourg, Budapest (5), and San Fernando), 18h. (Zagreb), 20h. (near Laibach).

Aug. 13d. Readings at 0h. (Cape Town), 3h. (Pulkovo and Leningrad), 4h. (Tokyo and near Nagoya), 5h. (Sucre and near La Paz), 6h. (Pulkovo, Leningrad, Ekaterinburg, and Makeyevka), 16h. (Tokyo).

Aug. 14d. 1h. 26m. 18s. Epicentre 25°·0N. 119°·5E. (LXIII as on 11d. 12h.).

The Ekaterinburg observations suggest an epicentre 3° further W.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Zi-ka-wei	6·4	15	e 1 36	- 2	2 55	0	—
Irkutsk	29·5	341	—	—	—	—	e 14·7
Ekaterinburg	52·4	324	9 6	-16	e 16 18	-31	e 26·6
Pulkovo	68·2	327	—	—	—	—	e 42·7
Leningrad	68·2	327	—	—	—	—	42·1
De Bilt	84·1	326	—	—	—	—	e 48·7
Uccle	85·2	324	—	—	—	—	e 48·7

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Aug. 14d. 8h. 36m. 10s. Epicentre 41°-0S. 92°-0W. (as on 1924 July 17d.).

A = -026, B = -754, C = -656; D = -999, E = +035;  
G = +023, H = +656, K = -755.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	27.4	88	16 0	- 2	10 21	-27	13.1	—
La Paz	32.0	47	16 50	+ 3	11 52	-16	14.0	18.1
Ottawa	87.6	11	—	—	e 23 50†	+ 2	48.8	—
San Fernando	110.2	59	—	—	—	—	—	66.8
Granada	112.3	60	e 15 17	+ 9	e 29 20	+92	52.8	61.8
Paris	122.2	50	—	—	—	—	e 63.8	—
Edinburgh	122.3	42	—	—	—	—	e 68.8	—
Kew	123.2	46	—	—	—	—	e 61.8	—
Uccle	124.1	49	—	—	—	—	—	66.8
De Bilt	125.1	48	—	—	—	—	e 63.8	—
Strasbourg	125.2	52	—	—	—	—	e 65.8	—
Pulkovo	140.3	41	e 20 4	[+24]	—	—	63.8	81.3
Leningrad	140.3	41	e 19 18	[-22]	—	—	33.8	—
Makeyevka	144.3	61	e 23 51	†PR <sub>1</sub>	—	—	46.8	82.6
Ekaterinburg	156.3	39	20 34	[+30]	—	—	60.8	88.2

Additional readings: La Paz MN = +18.6m.; T<sub>0</sub> = 8h.37m.0s. Ottawa  
eN = +30m.8s. =SR<sub>1</sub>+10s. San Fernando MN = +65.3m. Granada  
i = +19m.52s. =PR<sub>1</sub>+18s. Makeyevka MN = +87.6m. Ekaterinburg  
e = +20m.56s., +23m.56s. =PR<sub>1</sub>-20s., and +60m.12s., MN = +88.0m.,  
MZ = +88.4m.

Aug. 14d. Readings at 0h. (Tacubaya), 2h. (Ekaterinburg, Pulkovo, Sydney, and Adelaide), 3h. (De Bilt, Uccle, Pulkovo, Leningrad, Irkutsk, and near Athens), 4h. (Pulkovo, Ekaterinburg, Irkutsk, and Zi-ka-wei), 5h. (De Bilt, Uccle, Granada, Leningrad, Ekaterinburg, Makeyevka, and Apia), 6h. (Ottawa and Granada), 8h. (Ekaterinburg), 16h. (near Tacubaya), 19h. (near Sumoto (2)), 21h. (Apia, La Paz, Riverview, Adelaide, and Ekaterinburg), 22h. (Pulkovo, Leningrad, Irkutsk, Ekaterinburg, Granada, La Paz, and Ottawa), 23h. (Leningrad, De Bilt, San Fernando, and near Laibach and Zagreb).

Aug. 15d. 2h. 27m. 24s. Epicentre 53°-5S. 153°-0E. (as on 1923 Nov. 26d.).

A = -466, B = +237, C = -853; D = +454, E = +891;  
G = +760, H = -387, K = -522.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	19.2	48	4 6	-25	7 54	-12	9.3	10.7
Melbourne	21.4	342	e 6 42	+104	—	—	—	11.0
Wellington	E. 22.0	48	15 1	- 4	18 57	- 8	11.6	13.3
	N. 22.0	48	15 1	- 4	19 1	- 4	e 10.3	13.1
Riverview	24.7	356	e 6 48	+73	e 10 30	+33	e 11.5	11.9
Sydney	24.7	356	—	—	10 18	+21	11.4	11.8
Adelaide	25.4	332	e 4 36†	-66	e 9 2	-69	e 11.1†	15.4
Honolulu	E. 89.4	44	—	—	—	—	e 43.6	—
Victoria	E. 126.8	56	—	—	—	—	58.7	66.0
Baku	130.0	284	—	—	e 24 58	†PR <sub>2</sub>	62.6	72.8
Ekaterinburg	136.5	307	e 19 34	[+ 1]	—	—	40.6	76.6
Makeyevka	141.4	284	—	—	e 36 36†	†	76.6	116.7
Toronto	145.0	89	—	—	—	—	e 72.5	—
Ottawa	148.1	90	e 25 36†	†	—	—	e 69.6	—
Rocca di Papa	150.2	253	—	—	—	—	e 89.7	90.1
Pulkovo	151.5	298	20 10	[+12]	—	—	80.6	97.9
Leningrad	151.6	298	e 20 10	[+12]	—	—	71.6	86.8
Granada	153.8	226	120 38	[+37]	—	—	77.6	84.6
San Fernando	154.1	221	—	—	—	—	80.6	94.1
Moncalieri	155.0	252	—	—	—	—	e 64.7	—
Tortosa	N. 155.2	236	—	—	—	—	e 83.6	—
Strasbourg	157.5	259	—	—	—	—	96.1	—
Paris	160.2	254	e 20 42	[+34]	—	—	e 88.6	—
Uccle	160.5	260	—	—	—	—	e 80.6	—
De Bilt	160.8	264	20 22	[+13]	—	—	e 82.6	—
Kew	163.3	257	—	—	—	—	e 89.6	—
Oxford	164.0	256	—	—	—	—	—	105.6

For Notes see next page.

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NOTES TO AUG. 15d. 2h. 27m. 24s.

Additional readings and notes: Christchurch readings are given as at 1h. Wellington SR<sub>1</sub>E = +9m.41s., SR<sub>1</sub>N = +9m.44s. Riverview eS = +10m.45s., MN = +11.7m. Baku MN = +72.1m. Ekaterinburg e = +22m.34s. = PR<sub>1</sub> + 22s., and +26m.5s. = PR<sub>2</sub> + 14s., eL = +27.6m., e = +38m.29s., MN = +77.4m., MZ = +78.2m. Makeyevka MN = +118.8m. Ottawa eN<sub>1</sub> = +30m.6s. = PR<sub>2</sub> + 5s. San Fernando MN = +91.6m. De Bilt ePR<sub>1</sub>Z = +25m.8s.

Aug. 15d. 3h. 58m. 22s. Epicentre 52°·2N. 2°·7W. (given by H. Jeffreys, Geoph. Supp. to Mon. Not. R.A.S. I. 489, June 1927).

A = +·612, B = -·029, C = +·790; D = -·047, E = -·999;  
G = +·789, H = -·037, K = -·613.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oxford	1·0	116	10 16	+ 1	—	—	0·6	—
Bidston	1·2	350	0 32	+14	—	—	—	0·6
Kew	1·7	117	0 25	- 1	0 47	- 1	—	0·9
Stonyhurst	1·7	5	e 0 24	- 2	10 43	- 5	—	0·8
Plymouth	2·0	206	(0 23)	- 8	—	—	—	—
Edinburgh	3·7	356	e 1 50	+52	—	—	12·1	—
Uccle	4·6	105	e 1 7	- 4	—	—	—	—
De Bilt	4·8	88	—	—	e 2 2	- 9	e 2·5	—
Paris	4·8	133	e 1 24	+10	e 2 36	+25	(2·6)	2·6
Besançon	7·5	128	—	—	e 3 7	-17	—	3·8
Strasbourg	7·6	114	e 1 54	- 1	—	—	—	—
Hamburg	7·8	75	—	—	e 3 8?	-23	—	—
Zurich	8·7	119	e 1 59	-13	e 3 26.	-30	e 4·4	—
Vienna	z.	12·8	100	—	—	—	e 6·6	—

Additional readings: Plymouth reading has been increased by 1m. Uccle e = +1m.22s. and +2m.21s. De Bilt e = +2m.25s. Strasbourg SR<sub>1</sub> = +4m.11s., SR<sub>2</sub> = +4m.20s. Vienna iE = +6m.48s.

Aug. 15d. 6h. 31m. 36s. Epicentre 4°·8N. 126°·0E. (as on 1925 Oct. 18d.).

A = -·586, B = +·806, C = +·084; D = +·809, E = +·588;  
G = -·049, H = +·068, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	8·8	166	15 20	+187	16 55	+177	—	—
Manila	10·9	334	e 2 24?	-19	—	—	—	—
Hong Kong	21·0	328	—	—	—	—	—	12·4
Malabar	22·0	237	15 4	- 1	—	—	—	—
Batavia	22·1	240	15 7	+ 1	19 8	+ 1	—	—
Baku	76·3	311	e 13 59	+122	e 23 30	+109	39·4	—
Makeyevka	85·1	319	—	—	e 23 8	-12	67·4	—
Pulkovo	88·7	331	—	—	e 23 39	-21	49·4	57·6
Leningrad	88·7	331	e 12 56	-13	—	—	45·4	57·7
De Bilt	104·3	327	—	—	—	—	e 50·4	—
Uccle	105·4	325	—	—	(38 24)	†SR <sub>2</sub>	e 38·4	—
Kew	107·6	330	—	—	—	—	e 61·4	—
Granada	117·1	316	—	—	—	—	78·4	81·4
San Fernando	119·2	316	—	—	—	—	—	79·9
Ottawa	126·2	17	—	—	e 28 24	-70	68·4	—

Additional readings: Pulkovo MN = +50.4m., MZ = +58.2m. Leningrad MN = +50.3m. De Bilt eL = +54.4m. San Fernando MN = +80.4m. Ottawa eE = +38m.18s. = SR<sub>1</sub> + 14s.



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Aug. 15d. 9h. 53m. 45s. Epicentre 14°·0N. 109°·0E. (as on 1924 Dec. 26d.).

A = -·316, B = +·917, C = +·242; D = +·946, E = +·326;  
G = -·079, H = +·229, K = -·970.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hong Kong	9·6	30	—	—	—	—	—	12·2
Manila	11·6	86	—	—	e 5 15 <sup>‡</sup>	+ 6	—	—
Taihoku	16·1	45	—	—	e 6 15 <sup>‡</sup>	-42	—	—
Zi-ka-wei	20·6	32	e 4 50	+ 2	—	—	—	—
Irkutsk	38·4	355	e 7 40	- 1	—	—	20·2	21·5
Baku	57·6	310	—	—	—	—	36·2	—
Makeyevka	67·0	319	—	—	—	—	e 37·2	50·6
Kucino	67·8	325	—	—	—	—	37·4	44·7
Pulkovo	72·3	329	12 36	+64	—	—	35·2	46·8
Leningrad	72·3	329	—	—	—	—	37·2	51·0
Vienna	81·3	320	13 48	+81	—	—	e 53·2	—
Hamburg	84·0	325	—	—	—	—	e 46·2	—
Strasbourg	86·8	320	—	—	—	—	48·2	—
De Bilt	87·2	323	—	—	—	—	e 47·2	—
Uccle	88·1	323	—	—	—	—	e 47·2	—
Pecle	89·9	321	—	—	—	—	e 57·2	—
Paris	90·6	325	—	—	—	—	e 53·2	—
Kew	98·7	314	—	—	—	—	56·2	60·2
Granada	100·9	314	—	—	—	—	—	71·2
San Fernando	100·9	314	—	—	—	—	—	—
Ottawa	120·5	2	—	—	—	—	e 61·2	—

Additional readings: Makeyevka L = +42·2m, MN = +44·5m. Leningrad  
MZ = +50·8m. San Fernando MN = +68·2m.

Aug. 15d. 14h. 17m. 52s. Epicentre 36°·0N. 5°·0W. (as on 1925 Jan. 2d.).

A = +·806, B = -·071, C = +·588.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	0·9	32	0 16	+ 2	0 26	+ 1	—	—
Granada	1·6	43	10 27	+ 3	0 39	- 6	0·7	1·0
Almeria	2·3	67	10 42	+ 6	1 1 8	+ 5	11·3	1·8
Toledo	3·9	11	e 1 1	0	1 36	-11	11·8	2·1

Additional readings: Granada i = +0m.29s., MN = +0·8m. Almeria  
MNZ = +1·4m. Toledo S = +1m.31s.

Aug. 15d. Readings also at 2h. (near La Paz and near Sucre), 4h. (Ann Arbor), 9h. (Tokyo and near Nagasaki), 10h. (near Oaxaca), 11h. (Irkutsk), 12h. (La Paz and Ekaterinburg), 13h. (De Bilt and Irkutsk), 18h. (Ekaterinburg), 19h. (De Bilt), 20h., 21h., and 22h. (Moncalieri), 23h. (Amboina).

Aug. 16d. 2h. 35m. 24s. Epicentre 5°·5S. 147°·0E. (as on 1926 July 16d.).

A = -·835, B = +·542, C = -·096; D = +·545, E = +·839;  
G = +·080, H = -·052, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	28·6	173	e 6 29	+15	e 11 43	+33	e 14·2	15·9
Sydney	28·6	173	10 42	‡S	(10 42)	-28	15·3	15·8
Adelaide	30·4	194	e 10 58	‡S	(e 10 58)	-43	14·9	18·4
Melbourne	32·2	184	e 8 48	+117	—	—	—	18·5
Manila	32·7	310	—	—	e 12 36 <sup>‡</sup>	+17	—	—
Honolulu	60·2	61	—	—	e 18 9	-17	e 25·6	32·0
Ekaterinburg	92·6	327	e 18 51	‡PR <sub>1</sub>	(23 36)	[- 8]	23·6	51·8
Makeyevka	106·7	320	—	—	—	—	56·6	71·3
Leningrad	107·9	333	e 18 44	‡PR <sub>1</sub>	—	—	56·6	66·4
Pulkovo	108·0	333	e 18 38	‡PR <sub>1</sub>	e 28 4	+54	55·6	69·9
De Bilt	123·8	332	—	—	—	—	e 57·6	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	124.3	339	—	—	—	—	—	82.6
Strasbourg	124.8	327	—	—	—	—	e 68.6	—
Uccle	125.1	331	—	—	—	—	e 58.6	—
Ottawa	125.6	35	—	—	e 29 12	-18	e 51.6	—
Kew	126.7	335	—	—	—	—	e 72.6	—
Paris	127.3	331	—	—	—	—	e 76.6	—
Granada	138.5	324	—	—	—	—	e 68.6	71.1
La Paz	138.9	122	19 28	[-10]	—	—	—	—
Sucre	139.8	128	19 23	[-17]	—	—	—	—
San Fernando N.	140.5	325	—	—	—	—	—	82.6

Additional readings and note: Riverview MN = +18.6m. Adelaide S = +14m.2s. Honolulu MN = +27.2m. Ekaterinburg MN = +48.9m. MZ = +54.4m. Leningrad MN = +68.8m. MZ = +70.1m. Pulkovo MZ = +70.1m. Ottawa e = +36m.54s. La Paz and Sucre readings have been diminished by 9m.

Aug. 16d. 10h. 57m. 55s. Epicentre 36°·0N. 5°·0W. (as on 15d. 14h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	0.9	32	0 21	+ 7	—	—	—	0.5
Granada	1.6	43	0 22	- 2	0 28	-17	0.5	0.6
Almeria	2.3	67	0 43	+ 7	1 1 2	- 1	1 1.1	1.2

Granada gives also i = +0m.24s., MN = +0.7m.

Aug. 16d. Readings also at 1h. (Moncalieri), 4h. (Ekaterinburg), 5h. (Tokyo), 7h. (near Laibach), 9h. (Tucson, Tacubaya, Puebla, Oaxaca, and Vera Cruz), 10h. (Irkutsk and Ekaterinburg), 12h. (Taihoku, Irkutsk, Ekaterinburg, Pulkovo, and Zi-ka-wei), 13h. (Uccle, De Bilt, Kew, Strasbourg, Granada, and Algiers), 18h. (Tokyo), 19h. (La Paz and La Plata), 20h. (Tokyo and Irkutsk), 21h. (Manila).

Aug. 17d. 1h. 42m. 45s. Epicentre 38°·5N. 15°·0E.

A = +.756, B = +.203, C = +.623; D = +.259, E = -.966;  
G = +.601, H = +.161, K = -.783.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pompeii	2.3	350	e 0 42	+ 6	e 1 57	+54	—	—
Naples	2.4	346	0 42	+ 5	1 15	+ 9	—	—
Rocca di Papa	3.7	332	e 0 56	- 2	1 44	+ 2	—	2.2
Florence	6.0	333	1 45	+13	3 55	+71	—	—
Athens	6.9	91	1 49	+ 4	e 3 1	- 6	4.7	8.2
Venice	7.2	345	e 2 52	+63	e 4 7	+52	(e 4.1)	9.6
Zagreb	7.3	5	e 1 54	+ 3	e 4 3	+45	—	5.4
Belgrade	7.5	31	e 2 6	+12	14 48	+84	e 7.8	—
Moncalieri	8.5	322	e 2 9	0	3 45	- 5	4.6	5.5
Graz	8.6	2	e 2 2	- 8	e 4 39	+46	5.0	5.1
Budapest	9.4	17	e 3 15	+53	4 15	+ 2	—	—
Algiers	9.6	264	2 59	+35	—	—	e 5.5	9.2
Vienna	9.8	5	e 2 33	+ 6	14 22	- 1	—	7.2
Zurich	10.0	335	e 2 20	-10	—	—	15.9	—
Ravensburg E.	10.1	339	e 2 47	+16	(e 4 1)	-31	e 5.0	6.8
Barcelona	10.3	291	—	—	(e 4 28)	- 9	e 4.5	8.2
Hohenheim E.	11.0	340	—	—	—	—	e 5.6	6.7
Strasbourg	11.3	335	e 2 41	- 8	—	—	e 6.2	9.6
Tortosa N.	11.4	287	—	—	(4 47)	-17	4.8	9.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cheb	11.7	352	—	—	e 5 15?	+ 3	—	7.2
Paris	13.7	323	e 3 18	- 4	e 6 19	+18	7.8	8.2
Almeria	13.8	269	e 3 19	- 4	e 6 8	+ 5	e 7.3	10.4
Uccle	14.4	332	e 3 25	- 7	—	—	e 6.2	8.7
Granada	14.7	271	3 28	- 7	6 24	- 1	7.2	9.4
Toledo	14.8	282	e 3 39	+ 3	e 6 37	+10	e 7.3	10.9
De Bilt	15.2	336	3 42	0	6 45	+ 8	7.6	10.6
Hamburg	15.5	349	e 3 41	- 5	—	—	e 8.8	9.2
Malaga	15.5	270	e 2 42	-64	e 5 36	-68	—	—
Kew	16.8	325	e 3 58	- 4	e 7 8	- 5	7.2	—
San Fernando	16.9	270	—	—	e 7 15	- 1	10.2	11.2
Rio Tinto	17.0	274	8 15?	?L	—	—	(8.2)	18.2
Oxford	17.5	325	4 9	- 2	7 17	-12	10.2	11.8
Makeyevka	19.2	53	4 32	+ 1	8 3	- 3	10.2	19.5
Bidston	19.4	326	4 19	-15	7 37	-33	9.8	12.2
Stonyhurst	19.4	328	4 34	0	8 12	+ 2	—	11.6
Edinburgh	21.2	331	—	—	—	—	1 9.8	—
Upsala	21.4	4	—	—	e 8 46	- 7	—	15.1
Piatigorsk	21.7	66	e 4 15?	-46	—	—	—	—
Bergen	22.7	348	e 7 15?	?	—	—	—	—
Pulkovo	23.3	20	15 9	-11	19 18	-13	10.6	12.8
Leningrad	23.5	20	e 5 9	-14	19 17	-18	11.2	13.9
Baku	26.8	75	e 5 48	- 8	e 11 4	+27	e 15.2	—
Ekaterinburg	34.9	43	e 6 55	-17	e 12 3	-51	15.2	19.4
Irkutsk	60.1	45	—	—	—	—	e 32.2	—
Ottawa	64.2	309	—	—	—	—	e 35.2	—
Toronto E.	67.3	309	—	—	—	—	42.1	—

Additional readings and notes: Rocca di Papa eE = +33s., ePE = +57s., ePN = +59s., iS = +1m.47s. Athens LN = +4.5m., MN = +5.2m.  
 Zagreb P = 1h.44m., e = +3m.11s. Belgrade i = +4m.26s., iSR<sub>1</sub> = +4m.51s. Graz MN = +6.3m. Vienna MN = +7.8m. Ravensburg e = +51s., S is given as eL and L as e. Barcelona MN = +6.7m. Hohenheim eN = +6m.27s., MN = +9.5m. Strasbourg MN = +8.6m., MZ = +9.5m. Almeria i = +3m.45s., MN = +11.4m. Uccle MN = +9.3m. Granada i = +4m.3s., +4m.9s., and +5m.13s., L = +8.2m. Toledo MNW = +11.2m. Makeyevka MN = +11.5m., MZ = +12.6m. Upsala MN = +14.4m. Bergen reading has been diminished by 1h. Pulkovo MZ = +14.8m. Is L = SR<sub>1</sub>? Ekaterinburg MZ = +22.2m. Is L = SR<sub>1</sub>?

Aug. 17d. Readings also at 11h. (Almeria, Malaga, and near Granada), 13h. (Azores and Tokyo).

Aug. 18d. 15h. 54m. 40s. Epicentre 36° 0N. 5° 0W. (as on 16d. 10h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	0.9	32	0 10	- 4	(0 17)	- 8	0.3	0.4
San Fernando	1.0	296	10 33	+18	0 54	+26	—	—
Granada	1.6	43	10 23	- 1	0 36	- 9	0.6	0.8
Almeria	2.3	67	10 45	+ 9	11 13	+10	1.3	1.3
Toledo	3.9	11	e 0 49	-12	11 32	-15	1.6	2.0
Alicante	4.3	56	1 24	+17	(1 32)	-26	1.5	1.7
Tortosa	N. 6.5	40	1 29	-10	(2 45)	-12	2.8	4.0
De Bilt	E. 17.6	21	—	—	—	—	e 9.3	—

Additional readings: Granada i = +25s., +28s., and +31s. Almeria MNZ = +1.4m. Toledo P = +58s., i = +1m.0s., iS = +1m.22s. De Bilt eLN = +11.3m.

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Aug. 18d. 17h. 4m. 52s. Epicentre 38°·0N. 20°·5E. (as on 1923 April 3d.).

A = +·738, B = +·276, C = +·616; D = +·350, E = -·937;  
G = +·577, H = +·216, K = -·788.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	2·6	91	i 0 51	+10	e 1 25	+13	1·5	1·9
Naples	5·6	303	1 30	+ 3	2 8	-26	—	—
Mostar	5·7	341	1 32	+ 4	—	—	—	—
Sarajevo	6·0	346	e 1 36	+ 4	3 39	+55	—	3·9
Belgrade	6·8	0	i 1 40	- 4	—	—	—	4·7
Rocca di Papa	7·0	305	1 50	+ 4	e 3 12	+ 2	e 4·2	5·3
Zagreb	8·5	338	e 2 19	+10	i 5 1	+71	—	—
Florence	9·0	313	e 2 8	- 8	5 38	+95	(5·6)	—
Laibach	9·2	333	e 2 14	- 5	i 4 7	- 1	—	—
Budapest	9·5	355	2 31	+ 8	3 38	-38	5·3	9·7
Venice	9·6	323	2 29	+ 5	13 58	-20	—	6·1
Graz	9·8	340	e 2 26	- 1	i 6 3	+100	6·8	7·1
Vienna	10·6	345	e 2 28	-10	5 36	?L	(5·6)	7·6
Innsbruck	11·4	327	e 3 6	+16	e 4 49	-15	—	—
Moncalieri	11·8	310	3 5	+ 9	5 31	+17	6·7	10·5
Lemberg	12·1	11	e 2 44	-16	—	—	—	7·3
Ravensburg	12·6	324	e 3 20	+13	e 7 28	?L	e 8·8	9·6
	12·6	324	e 3 24	+17	e 7 26	?L	—	—
Zurich	12·8	321	3 14	+ 4	e 5 23	-16	—	—
Cheb	13·4	337	—	—	e 5 22	-31	—	8·1
Hohenheim	13·5	327	i 3 43	+23	e 7 54	+118	e 9·1	11·6
Algiers	13·9	271	i 3 27	+ 2	6 21	+15	—	13·1
Strasbourg	14·0	323	e 3 29	+ 3	e 6 17	+ 9	8·6	9·0
Besançon	14·0	316	e 3 25	- 1	i 5 56	-12	10·1	—
Tortosa	15·7	287	e 3 48	0	e 6 40	- 8	—	—
	15·7	287	e 3 53	+ 5	6 45	- 3	7·1	13·0
Makeyevka	16·2	46	3 51	- 4	7 6	+ 6	8·1	10·9
Paris	16·9	316	e 4 7	+ 3	i 7 24	+ 8	10·1	10·1
Hamburg	17·2	339	e 4 4	- 3	e 7 8	-14	e 9·0	12·1
Uccle	17·2	323	e 4 10	+ 3	e 7 24	+ 2	e 9·1	—
De Bilt	17·7	328	4 16	+ 3	7 35	+ 2	10·1	12·3
Platigorsk	18·0	63	i 3 59	-18	—	—	—	—
Almeria	18·1	274	i 4 26	+ 8	e 8 4	+22	e 9·5	11·2
Granada	19·1	275	i 4 33	+ 3	e 8 18	+14	11·1	11·8
Toledo	19·1	283	e 4 30	0	i 8 5	+ 1	e 8·9	15·9
Malaga	19·8	274	4 40	+ 1	8 20	+ 1	13·0	—
Kew	19·8	319	e 4 42	+ 3	e 8 22	+ 3	11·1	12·7
Oxford	20·5	319	—	—	i 8 32	- 2	—	—
Kucino	21·2	28	5 50	+55	9 53	+65	12·3	14·0
San Fernando	21·3	274	5 21	+24	8 55	+ 5	12·1	16·1
Upsala	21·9	356	e 4 56	- 8	e 8 48	-15	—	14·9
Stonyhurst	22·3	323	e 6 32	+83	13 8	?L	(13·1)	—
Pulkovo	22·6	13	i 5 3	- 9	i 9 2	-15	12·1	14·0
Leningrad	22·8	13	i 5 3	-12	i 9 4	-17	10·5	14·0
Baku	22·8	75	e 5 3	-12	9 19	- 2	13·1	17·0
Edinburgh	23·8	326	—	—	—	—	e 30·1	—
Bergen	24·4	342	—	—	—	—	e 15·1	—
Ekaterinburg	32·3	41	e 6 34	-17	11 43	-30	12·1	20·4
Irkutsk	57·4	46	e 9 52	- 3	e 13 26	?IPR <sub>2</sub>	e 35·1	—

Additional readings: Athens ePN = +55s. Sarajevo iP = +2m.41s. Belgrade iP = +2m.11s. and +2m.15s., iSR<sub>2</sub>N = +3m.49s., iSR<sub>1</sub>E = +3m.52s. Rocca di Papa i = +2m.1s., eS = +4m.31s. Zagreb e = +2m.31s., +2m.44s., +3m.23s., and +3m.52s., i = +4m.14s. and +4m.51s. Laibach iPN = +2m.31s., e = +3m.15s. and +3m.18s., i = +3m.30s. and +4m.7s., iSR = +5m.10s. and +5m.25s. Budapest MN = +8·9m. Venice PE = +3m.8s., iS = +4m.12s. Vienna iNZ = +4m.15s., SR<sub>1</sub>? = +6m.15s. Moncalieri MN = +8·8m. Lemberg MN = +7·1m. Ravensburg ePR<sub>1</sub> = +3m.58s. Hohenheim iPR<sub>1</sub> = +4m.21s., MN = +9·3m. Strasbourg iSR<sub>1</sub> = +8m.14s., MN = +9·7m., MZ = +10·6m. Makeyevka MNZ = +10·6m. De Bilt MN = +11·9m., MZ = +12·8m. Almeria MN = +11·9m. Granada i = +4m.55s. Toledo MNW = +14·4m. Kucino e = +9m.40s. San Fernando MN = +14·6m. Pulkovo MZ = +14·6m. Leningrad i = +9m.11s., MN = +14·1m., MZ = +15·1m. Baku iP = +5m.8s., MNZ = +16·0m. Ekaterinburg MN = +20·0m.

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Aug. 18d. 23h. 53m. 48s. Epicentre 24°·5N. 94°·5E.

A = -·071, B = +·907, C = +·415 ; D = +·997, E = +·078 ;  
G = -·033, H = +·413, K = -·910.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 5·9	252	1 42	+11	2 40	- 1	—	—
	N. 5·9	252	1 47	+16	2 33	- 8	—	—
Phu-Lien	11·8	106	12 54	- 2	5 12	- 2	6·2	—
Hyderabad	16·5	248	3 47	-12	7 3	- 4	8·8	12·6
Bombay	20·8	259	e 5 0	+ 9	8 33	- 7	10·4	11·9
Irkutsk	28·7	13	6 1	-14	—	—	—	—
Baku	40·3	306	e 7 59	+ 2	e 13 51	-20	—	—
Ekaterinburg	40·4	332	e 7 43	-14	13 45	-28	16·2	23·3
Makeyevka	49·8	315	9 14	+ 8	16 1	-15	25·2	64·2
Kucino	51·3	324	e 10 23	+68	e 17 40	+65	32·5	33·9
Pulkovo	56·0	328	9 41	- 5	17 18	-16	36·2	36·4
De Bilt	70·5	319	—	—	—	—	e 39·2	—

Additional readings : Baku e = +9m.42s. Ekaterinburg i = +14m.16s.,  
MZ = +26·4m. ; is L = SR<sub>1</sub> ? Makeyevka PR<sub>1</sub> = +11m.11s., e = +13m.11s.  
Kucino ePR<sub>1</sub> = +12m.22s., SR<sub>1</sub> = +21m.49s. Pulkovo SR<sub>1</sub> = +22m.12s.,  
MN = +34·3m.

Aug. 18d. Readings also at 0h. (near Nagasaki), 1h. (Baku), 2h. (La Paz), 3h. (Sucre and near La Paz), 8h. and 9h. (near Reykjavik), 12h. (Simla), 14h. (Vienna, Hamburg, Upsala, near Pulkovo, and Leningrad), 16h. (Stonyhurst, Cape Town, Almeria, Granada, and near Malaga), 17h. (Tokyo (2)), 19h. (St. Louis), 20h. (Ekaterinburg), 22h. (Irkutsk, Zi-ka-wei and near Malaga).

Aug. 19d. 13h. 51m. 25s. Epicentre 7°·0S. 145°·0E. (as on 1926 June 19d.).

A = -·813, B = +·569, C = -·122 ; D = +·574, E = +·819 ;  
G = +·100, H = -·070, K = -·993.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	17·1	280	14 39	+33	—	—	i 8·3	—
Riverview	27·4	169	—	—	e 8 5	-163	e 14·8	20·8
Sydney	27·4	169	(6 11)	+ 9	(11 5)	+17	(14·5)	(15·0)
Adelaide	28·5	191	e 6 30?	+17	e 12 1	+53	17·3	19·1
Melbourne	30·7	180	—	—	e 11 47	+ 1	—	22·1
Manila	32·2	312	e 6 35?	-15	—	—	16·2	—
Honolulu	E. 62·6	62	10 25	- 4	18 35	-21	31·2	41·1
Irkutsk	68·7	335	—	—	—	—	50·6	—
Bombay	75·6	291	e 21 46	?S	(e 21 46)	+13	—	—
Ekaterinburg	92·8	327	e 12 54	-37	e 23 48	[+ 3]	24·6	53·0
Victoria	E. 96·4	42	15 56	+125	e 25 35	+15	43·4	54·1
Baku	98·4	311	e 17 49	[+ 9]	e 26 34	+54	48·6	54·6
Kucino	105·4	325	e 25 2	?[S]	e 27 37	+61	51·2	58·4
Makeyevka	106·5	318	—	—	e 25 7	[+13]	42·6	65·1
Pulkovo	108·3	331	e 18 50	?PR <sub>1</sub>	e 28 7	+54	48·6	63·9
Leningrad	108·3	331	e 18 55	?PR <sub>1</sub>	e 28 9	+56	46·8	63·9
Upsala	E. 114·1	334	—	—	—	—	e 58·6	—
Cape Town	114·9	229	—	—	—	—	—	66·6
Hamburg	121·0	331	—	—	—	—	e 57·6	—
Cheb	121·7	325	—	—	—	—	e 58·6	74·6
Chicago	122·1	44	—	—	—	—	61·8	71·8
De Bilt	E. 124·2	331	—	—	—	—	e 56·6	74·7
	N. 124·2	331	—	—	—	—	e 59·6	74·9
Strasbourg	125·0	327	—	—	—	—	—	—
Uccle	125·4	331	—	—	—	—	e 59·6	—
Kew	127·1	332	—	—	—	—	e 62·6	—
Oxford	127·4	334	—	—	—	—	—	77·1
Paris	127·6	330	—	—	—	—	e 62·6	74·6
Ottawa	128·0	36	—	—	e 28 5	-102	60·6	—
Tortosa	N. 133·7	322	—	—	—	—	e 69·8	86·0
Granada	138·5	321	—	—	—	—	71·6	76·1
San Fernando	140·6	322	—	—	43 11	?	74·1	84·1

For Notes see next page.

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NOTES TO AUG. 19d. 13h. 51m. 25s.

Additional readings: Riverview MZ = +21.9m., MN = +24.8m. Sydney: Adelaide PR<sub>1</sub> = +8m.15s., SR<sub>1</sub> = +15m.23s. Honolulu eE = +23m.47s. =SR<sub>1</sub>-5s., SR<sub>2</sub>E = +24m.53s. LN = +28.4m., MN = +36.1m.; T<sub>0</sub> = 13h.51m.42s. and 13h.51m.43s. Ekaterinburg e = +17m.0s. =PR<sub>1</sub>-26s., MN = +45.5m., MZ = +53.1m.; is L = S † Baku MN = +55.7m. Kucino e = +38m.17s. =SR<sub>1</sub>-35s. Makeyevka e = +26m.12s. and +27m.45s., MN = +62.1m., MZ = +62.8m. Pulkovo PR<sub>1</sub> = +21m.58s. =PR<sub>2</sub>-12s., e = +25m.7s. = [S] +5s., MN = +63.6m., MZ = +64.0m. Leningrad i = +28m.20s., MZ = +63.8m., MN = +64.1m. Chicago SR<sub>1</sub>N = +36m.35s., MN = +64.7m. Ottawa e = +37m.47s. (=SR<sub>1</sub>-39s.) and +42m.35s., eL = +55.0m. San Fernando MN = +86.6m.

Aug. 19d. Readings also at 0h. (Sucre), 2h. (Agana), 3h. (Sucre and Nagasaki), 4h. (Athens), 16h. (Manila), 17h. (Algiers (2) and near Athens), 21h. (Zurich), 22h. (Ekaterinburg), 23h. (Pulkovo, Leningrad, and Tokyo).

Aug. 20d. 3h. 9m. 6s. Epicentre 24°-0N. 124°-0E. (as on Aug. 10d. 0h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	s.	m.	m.
Taihoku	E.	2.5	294	—	—	e 1 18	+ 9	2.3	—
Zi-ka-wei		7.5	343	1 55	+ 1	13 24	0	—	11.2
Manila		9.8	197	—	—	—	—	e 8.9	—
Hukuoka		11.1	29	e 1 53	-53	(5 7)	+10	5.1	—
Osaka		14.6	40	4 19	+45	—	—	—	14.2
Irkutsk		32.0	337	e 6 10	-37	—	—	19.9	—
Ekaterinburg		55.6	324	e 9 24	-19	—	—	—	31.0
Baku		63.0	307	—	—	(20 54?)	+113	20.9	—
Makeyevka		69.8	315	—	—	—	—	e 40.9	—
Pulkovo		71.2	326	—	—	e 25 32	†PR <sub>1</sub>	36.9	45.9
Leningrad		71.2	326	—	—	—	—	34.4	46.2
De Bilt		87.2	327	—	—	—	—	e 47.9	55.6
Strasbourg		87.9	325	—	—	—	—	e 52.9	—
Uccle		88.3	327	—	—	—	—	e 47.9	—
Kew		90.1	329	—	—	—	—	e 54.9	—

Aug. 20d. 5h. 49m. 50s. Epicentre 25°-0N. 119°-5E. (LXIV as on Aug. 14d. 1h.)

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	s.	m.	m.
Taihoku	E.	1.9	89	—	—	—	—	e 1.8	—
Zi-ka-wei		6.4	15	e 1 37	- 1	e 2 55	0	—	—
Irkutsk		29.5	341	—	—	—	—	e 14.2	—
Ekaterinburg	Z.	52.4	324	—	—	—	—	—	34.6
Pulkovo		68.2	327	—	—	e 30 48	†	38.2	—
Leningrad		68.2	327	—	—	—	—	e 43.2	—
De Bilt		84.1	326	—	—	—	—	e 48.2	—
Strasbourg		84.6	322	—	—	—	—	e 54.2	—

Aug. 20d. Readings also at 1h. (near Mostar), 3h. (near Sucre), 7h. (Sucre and near La Paz), 12h. (near Mizusawa), 13h. (La Paz), 16h. (Apla), 19h. (near Nagasaki), 20h. (near La Paz, La Plata, and Sucre).

Aug. 21d. Readings at 1h. and 2h. (near Sumoto), 4h. (Tokyo, Wellington, Pulkovo, Leningrad, Makeyevka, Ekaterinburg, Irkutsk, De Bilt, Rocca di Papa, near Moncalieri, and near Tacubaya), 6h. (Tokyo), 7h. (Ekaterinburg), 8h. (Irkutsk, Baku, and near Mizusawa), 12h. (Baku), 13h. (La Paz and Sucre), 15h. (Ekaterinburg and Ottawa), 16h. (Ann Arbor and Azores), 19h. (Chicago, Ottawa, Honolulu, Wellington, Riverview, Granada, and Irkutsk), 20h. (Baku, Pulkovo, Kew, De Bilt, and San Fernando), 21h. (Sucre), 23h. (Agana and Sucre).

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Aug. 22d. Readings at 1h. and 2h. (near Nagasaki), 8h. (Zi-ka-wei, Manila, and near Taihoku), 9h. (Irkutsk, Baku, Pulkovo, Makeyevka, Edinburgh, Strasbourg, De Bilt, Uccle, and Granada), 13h. (Sucre), 16h. (near Manila).

Aug. 23d. 4h. 23m. 54s. Epicentre  $40^{\circ}0'N$ .  $14^{\circ}0'E$ . (as on 1920 July 11d.).

A = +.743, B = +.185, C = +.643; D = +.242, E = -.970;  
G = +.624, H = +.155, K = -.766.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Naples	0.9	14	e 0 16	+ 2	e 0 25	0	—	—
Rocca di Papa	2.0	331	i 0 36	+ 5	1 5	+10	1.2	—
Zagreb	6.0	13	e 2 13	+41	e 2 39	- 5	e 3.4	—
Zurich	8.3	334	e 3 21	+75	—	—	e 4.8	—
Strasbourg	9.6	334	—	—	—	—	6.1	—
Uccle	12.7	331	—	—	—	—	7.1	—
Granada	14.0	264	—	—	e 6 6?	- 2	—	10.6

Additional readings: Rocca di Papa iP = +43s., E = +1m.14s., N = +1m.16s.  
Zagreb e = +2m.25s.; all readings have been increased by 1h.

Aug. 23d. Readings also at 4h. (Sucre), 5h. (near Tacubaya), 10h. (near Amboina), 13h. (near Athens), 15h. (Ottawa, Makeyevka, Baku, Ekaterinburg, and Irkutsk), 16h. (Rocca di Papa and near Amboina), 17h. (Pulkovo and near Athens), 18h. (near Athens (2)), 20h. (Ekaterinburg), 21h. (Irkutsk, Baku, and near Athens), 22h. (near Athens).

Aug. 24d. 6h. 41m. 50s. Epicentre  $38^{\circ}5'N$ .  $30^{\circ}5'W$ . (as on 1926 July 13d.).

A = +.674, B = -.397, C = +.623; D = -.508, E = -.862;  
G = +.536, H = -.316, K = -.783.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
San Fernando E.	19.3	88	—	—	—	—	—	12.2
Toledo	20.5	78	e 4 44	- 3	e 8 8	-26	e 8.7	10.5
Malaga	20.6	87	4 51	+ 3	e 9 15	?SR <sub>1</sub>	e 12.4	—
Granada	21.2	85	i 4 57	+ 2	8 51	+ 3	10.0	11.5
Almeria	22.2	85	e 4 47	-20	e 8 30	-39	—	11.4
Kew	24.7	48	—	—	—	—	e 12.2	—
Barcelona	25.0	73	e 5 50	+12	—	—	e 28.8	33.8
Paris	25.8	55	—	—	—	—	e 11.2	—
Uccle	27.3	52	—	—	—	—	e 12.2	—
De Bilt	28.1	49	—	—	—	—	e 13.2	—
Strasbourg	29.1	57	—	—	—	—	e 13.2	—
Ottawa	33.9	297	—	—	e 12 27	-12	e 16.7	—
Pulkovo	43.1	40	—	—	—	—	e 23.2	—
Ekaterinburg	59.2	40	e 10 10	+ 4	—	—	—	17.2
Baku	59.8	60	—	—	—	—	e 30.2	—

Additional readings: San Fernando MN = +11.2m. Toledo MNW = +10.8m. Almeria MN = +12.3m. Barcelona MN = +36.3m. Paris eL at +11.2m. probably =SR<sub>1</sub>-12s.

Aug. 24d. Readings also at 1h. (near Nagasaki), 2h. (near Manila), 3h. (Nagasaki (2), Ekaterinburg, and Irkutsk), 4h. (2), 5h., 6h., and 7h. (Nagasaki), 11h. (Baku), 15h. (Mizusawa), 16h. (Cape Town), 18h. (La Paz, La Plata, and near Sucre), 20h. (near La Paz, La Plata, and Sucre), 22h. (Victoria, Ottawa, Toronto, near La Paz, and Sucre).

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**Aug. 25d. 5h. 44m. 32s. Epicentre 23°S. 172°5E.**

(as on 1920 June 12d.).

A = -.907, B = +.119, C = -.404; D = +.130, E = +.992;  
G = +.400, H = -.053, K = -.915.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		$\Delta$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Suva		7.9	45	(1 1 40)	-20	(1 3 10)	-24		
Wellington	E.	17.6	174	1 4 24	+12	1 7 54	+23	19.7	10.0
	N.	17.6	174	e 4 24	+12	1 7 54	+23	19.6	10.6
Apia		17.9	59	4 22	+ 6	(7 35)	- 3	7.6	9.0
Christchurch		19.7	130	5 4	+27			9.0	11.9
Riverview		21.2	237	e 4 57	+ 2	1 9 0	+12	e 10.5	11.8
Sydney		21.2	237	4 58	+ 3	8 53	+10	11.2	12.7
Melbourne		27.3	233	1 5 52	- 9	1 10 46	0	14.9	16.5
Adelaide		31.4	241	e 6 33	- 9	1 11 38	-20	1 13.8	19.8
Amboina		47.2	289	1 9 59	+71	1 19 16	?SR <sub>1</sub>	37.3	
Honolulu	E.	53.5	35	9 28	- 2	1 16 50	-13	1 22.3	27.8
	N.	53.5	35	9 28	- 2	1 16 51	-12	25.1	27.3
Manila		63.4	302	e 11 35	+61	(19 48)	+42	19.8	
Malabar		64.2	274	1 10 46	+ 7	1 19 21	+ 6	33.0	36.4
Batavia		65.3	274	1 10 50	+ 3	1 19 30	+ 1	30.0	43.8
Osaka		68.3	328	10 59	- 7	20 0	- 6	32.5	39.4
Mizusawa		69.4	335	20 10	?S	(20 10)	- 9	35.0	
Taihoku	E.	69.5	312	e 16 40					36.0
Hong Kong		73.1	305	11 35	- 2	(21 0)	- 3	21.0	21.8
Zi-ka-wel		73.6	317	e 11 32	- 8	20 58	-11		
Phu-Lien		78.1	300	e 12 6	- 2	e 21 52	- 9	39.5	
Berkeley	E.	86.8	46	e 12 58	0	e 23 10	-29	e 36.7	39.7
	N.	86.8	46	e 13 6	+ 8	e 23 14	-25	e 36.7	40.2
Lick		87.0	46	e 12 48	-11	e 22 52	[-17]	e 36.9	40.3
Sitka	E.	91.9	25					e 48.5	
Tucson	E.	92.1	55	13 25	- 3	1 23 47	[+ 6]	41.6	44.3
	N.	92.1	55	13 25	- 3	23 39	[- 2]	e 41.4	60.7
Victoria	E.	92.2	36	13 26	- 2	23 41	[ 0]	42.3	51.3
	N.	92.2	36	13 26	- 2			42.0	49.5
Spokane		95.0	39	e 12 45	-58	e 24 28	-38	44.5	50.5
Colombo		95.2	275	13 28	-16	24 28	-40	58.0	59.5
Irkutsk		96.4	325	13 40	-11	24 6	[+ 2]	45.5	56.8
Kodaikanal		98.7	277	24 4	?[S]	(24 4)	[-13]	58.2	62.1
Hyderabad		100.5	284	14 8	- 5	24 36	[+10]	49.0	65.1
La Plata		104.3	140	18 46?	?PR <sub>1</sub>			49.5	
Bombay		106.0	284	18 42	?PR <sub>1</sub>	28 12	+80	46.6	68.5
Simla	E.	106.3	298			e 24 46	[- 7]		68.1
La Paz		108.4	118	18 41	?PR <sub>1</sub>	1 28 44	+90	51.8	58.1
Sucre		109.2	122	18 44	?PR <sub>1</sub>	1 28 53	+92	41.9	68.1
St. Louis		110.0	55					e 58.4	
Chicago		112.7	51	19 38	?PR <sub>1</sub>	26 21	-91	54.6	60.7
Ann Arbor	E.	115.7	51	e 19 58	?PR <sub>1</sub>			e 54.9	59.3
	N.	115.7	51	e 22 4	?			e 52.4	62.9
Cape Town		117.2	203						68.0
Toronto	E.	119.0	50	e 20 50	?PR <sub>1</sub>	e 25 43	[ 0]	56.8	64.2
	N.	119.0	50			e 28 11	-31	52.8	65.8
Cheltenham	E.	120.2	57					e 60.9	63.0
Ithaca		120.9	53			e 30 26	?	55.5	
Ekaterinburg		121.7	323	e 13 23	-148				69.0
Ottawa	E.	121.7	49	e 20 28	?PR <sub>1</sub>			e 56.5	65.0
Fordham		122.8	55	e 25 38	?[S]	1 36 48	?SR <sub>1</sub>	e 50.5	62.6
Harvard	E.	124.9	53			25 58	[ 0]	52.6	67.0
	N.	124.9	53					52.7	70.9
Baku		129.6	304	e 19 8	[- 9]				
Piatigorsk		134.3	310	e 19 36	[+ 7]	1 22 57	?PR <sub>1</sub>		71.5
Leningrad		135.4	334	1 18 5	[-86]			52.5	74.9
Pulkovo		135.5	334			1 32 20	?	63.5	80.2
Makeyevka		136.8	316	e 19 36	[+ 2]	e 23 6	?PR <sub>1</sub>		83.2
Upsala		139.9	340			e 22 54	?PR <sub>1</sub>	e 60.5	78.3
Hamburg		147.5	341	1 19 43	[- 4]			e 70.5	79.5
Edinburgh		147.8	356					1 80.2	
Budapest		148.3	324	20 0	[+ 7]			e 69.5	86.4
Vienna		149.2	328	e 19 49	[- 5]			e 67.5	87.5
Cheb		149.5	335	e 18 53	[-62]	e 30 10	?SR <sub>1</sub>	e 65.5	83.0
Stonyhurst		149.7	354	e 24 38	?PR <sub>1</sub>			75.5	86.1
Athens		149.9	306			e 42 58	?SR <sub>1</sub>	e 76.5	113.8
De Bilt		150.1	344	e 19 57	[+ 1]	e 42 50	?SR <sub>1</sub>	e 63.5	85.0

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Bidston	150.2	355	30 28	?PR <sub>2</sub>	—	—	68.9	88.3
Graz	150.4	327	e 20 3	[+ 7]	e 36 48	?	65.5	69.7
Zagreb	151.0	325	e 20 8	[+11]	—	—	—	—
Uccle	151.5	344	e 19 50	[— 8]	e 30 23	?PR <sub>2</sub>	63.5	95.1
Oxford	151.7	352	—	—	—	—	83.5	119.5
Kew	151.8	352	e 20 28?	[+29]	—	—	63.5	78.6
Hohenheim E.	151.8	336	—	—	—	—	e 68.6	84.7
Innsbruck	152.1	332	e 20 1	[+ 2]	—	—	e 52.5	88.0
Ravensburg E.	152.4	335	—	—	—	—	65.5	—
Strasbourg	152.5	338	i 19 55	[— 4]	—	—	60.5	93.0
Venice	153.1	328	e 20 50	[+50]	—	—	—	—
Zurich	153.2	336	i 20 24	[+24]	—	—	—	—
Paris	153.8	345	e 21 6	[+65]	—	—	45.5	75.5
Besançon	154.3	339	—	—	—	—	e 85.5	—
Naples	155.1	318	e 23 11	?PR <sub>2</sub>	e 32 13	?	78.5	99.5
Rocca di Papa	155.5	322	e 20 6	[+ 3]	e 31 6	?PR <sub>2</sub>	e 72.1	84.1
Moncalieri	155.5	334	19 42	[—21]	33 48	?	69.8	118.7
Tortosa	161.7	340	—	—	32 25	?PR <sub>2</sub>	51.6	106.8
Toledo	163.7	351	e 21 9	[+58]	i 31 31	?PR <sub>2</sub>	e 46.6	93.8
Algiers	164.2	328	20 18	[+ 7]	34 18	?	e 79.5	85.5
Alicante E.	164.3	339	—	—	—	—	—	98.0
Lisbon	165.1	5	i 18 1	[—131]	—	—	e 79.0	85.0
Almeria	166.1	343	e 20 19	[+ 7]	31 45	?	53.6	94.4
Rio Tinto	166.1	357	25 28?	?PR <sub>2</sub>	—	—	—	54.5
Granada	166.2	347	i 20 17	[+ 5]	i 25 7	?PR <sub>2</sub>	80.4	95.2
Malaga	166.8	349	e 20 25	[+12]	31 53	?PR <sub>2</sub>	e 42.0	94.6
San Fernando	167.4	356	20 22	[+ 9]	i 31 44	?PR <sub>2</sub>	39.5	109.0

Additional readings and notes: Suva readings have been increased by 3m. Wellington iPE = +4m.28s.; T<sub>0</sub> = 5h.44m.31s.; epicentre 22° 0S, 172° 0E. Apia S = +6m.52s. Riverview iP = +5m.3s. and +5m.7s., PR<sub>2</sub> = +5m.32s., iS = +9m.22s., MN = +11.6m., MZ = +12.4m.; T<sub>0</sub> = 5h.44m.14s. Melbourne iPR<sub>2</sub>? = +5m.52s., used as P. Adelaide iPR<sub>2</sub> = +7m.24s., iPR<sub>2</sub> = +7m.38s., MN = +15.2m. Honolulu iE = +9m.47s., iPE = +10m.45s., PR<sub>2</sub>E = +11m.46s., ePR<sub>2</sub>N = +11m.58s., SR<sub>2</sub>N = +21m.4s., SR<sub>2</sub>N = +22m.10s.; T<sub>0</sub> = 5h.44m.42s. and 5h.44m.48s. But is the recorded L really SR<sub>2</sub>? Batavia i = +20m.29s., MN = +35.8m. Osaka MN = +37.8m. Lick iPE = +12m.50s., iEN = +13m.4s., iN = +16m.18s. = PR<sub>1</sub> - 26s., eN = +18m.29s. = PR<sub>2</sub> - 25s., and +23m.34s. = S - 7s. Sitka eN = +42m.28s., eLN = +50.5m. Tucson PR<sub>2</sub>E = +17m.1s., eSN = +24m.18s., iSE = +24m.22s. (O - C = -18s. and -14s. respectively), PSE = +25m.34s.?, SR<sub>2</sub>N = +30m.16s., SR<sub>2</sub>E = +30m.46s., SR<sub>2</sub>E = +37m.48s.; T<sub>0</sub> = 5h.44m.56s. Spokane eE = +25m.53s. = S + 47s., MN = +56.1m. Irkutsk PS = +24m.47s. = S - 33s. Simla eN = +29m.4s. La Paz i = +19m.37s. = PR<sub>1</sub> + 29s., PR<sub>2</sub> = +25m.32s. = [S] + 30s., iSE = +28m.46s., SR<sub>2</sub>N = +34m.24s., MN = +70.5m. Sucre i = +19m.20s. = PR<sub>1</sub> + 6s., iS = +29m.55s. = S + 154s., SR<sub>1</sub> = +36m.5s. = SR<sub>1</sub> + 93s., SR<sub>2</sub> = +41m.5s. = SR<sub>2</sub> + 77s., SR<sub>2</sub> = +45m.35s. = SR<sub>2</sub> + 151s. St. Louis eE = +62m.47s., eN = +64m.28s. Chicago PR<sub>2</sub>E = +20m.3s., SPSE = +25m.10s. = [S] - 10s., PSE = +29m.5s., PPSE = +30m.15s., PePePePE? = +31m.16s., eSR<sub>2</sub>E = +34m.16s., eSR<sub>2</sub>E = +38m.52s., SR<sub>2</sub>E = +41m.52s., SR<sub>2</sub>E? = +43m.40s. Ann Arbor eN = +27m.46s., eE = +29m.52s., and +35m.52s. = SR<sub>1</sub> - 2s. Toronto eE = +27m.6s. and +29m.58s., eN = +28m.11s. = S + 19s., iN = +36m.34s. = SR<sub>1</sub> + 0s., MN = +65.7m. Ekaterinburg e = +14m.54s., +18m.52s. = [P] - 5s., and +20m.18s. = PR<sub>2</sub> - 18s., MZ = +68.6m., MN = +91.3m. Ottawa eE = +25m.53s. = PR<sub>2</sub> - 16s., iE = +27m.28s., eN = +28m.28s. = S - 34s., eLN = +51.0m., MN = +66.5m. Fordham e = +27m.8s. and +29m.53s. = S + 43s., i = +28m.6s., iSR<sub>1</sub> = +39m.43s., eSR<sub>2</sub> = +42m.48s., SR<sub>2</sub> = +45m.13s. Harvard ScPePeSE = +27m.53s., SPPF = +32m.22s., SR<sub>2</sub>E? = +36m.28s., SR<sub>2</sub>N = +37m.45s., SR<sub>2</sub>E = +42m.42s., SR<sub>2</sub>E = +46m.38s. Baku i = +21m.12s. = PR<sub>2</sub> - 16s., +22m.23s., +33m.10s., and +38m.45s. = SR<sub>1</sub> - 1s. Piatigorsk i = +22m.57s. Leningrad e = +5m.55s., i = +26m.48s. Pulkovo i = +34m.6s., e = +39m.4s. = SR<sub>1</sub> - 54s., and +41m.40s., MN = +74.7m., MZ = +74.9m. Makeyevka MZ = +74.3m., MN = +85.2m. Upsala e = +34m.51s., MN = +80.1m. Hamburg eN = +24m.41s., eEN = +47m.28s.? eL = +64.5m. Vienna iFZ = +19m.53s. De Bit MN = +87.2m., MZ = +88.5m. Graz e = +40m.41s., MN = +81.7m. Uccle e = +23m.41s. = PR<sub>1</sub> - 6s., MN = +79.6m. Strasbourg MZ = +85.5m. Paris MN = +82.5m. Rocca di Papa ePE = +20m.30s., i = +20m.36s., and +20m.38s., and +24m.6s. = PR<sub>1</sub> - 4s., eSN = +33m.30s. Moncalieri MN = +118.3m. Tortosa: Is L = SR<sub>2</sub>? Toledo eNW = +24m.45s. = PR<sub>2</sub> - 14s., MNW = +95.4m.; Is S = PR<sub>2</sub> - 38s. and L = SR<sub>1</sub> + 67s.? Almeria MN = +93.9m. San Fernando MN = +103.5m.

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General Note : Three stations have readings just about a minute later than PR<sub>1</sub>. Thus Platigorsk has +i22m.57s. = PR<sub>1</sub> + 59s., Makeyevka has +e23m.6s. = PR<sub>1</sub> + 52s., Stonyhurst has +e24m.38s. = PR<sub>1</sub> + 62s.

Aug. 25d. 7h. 42m. 36s. Epicentre 23°·8S. 172°·5E. (as at 5h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	E.	17·6	174	14 20	+ 8	17 54	+23	i 9·6	—
	N.	17·6	174	14 19	+ 7	17 55	+24	9·3	10·6
Apia		17·9	59	4 34	+18	(8 14)	+36	8·2	—
Christchurch		19·7	180	—	—	—	—	(9·0)	12·1
Sydney		21·2	237	4 48	- 7	8 54	+ 6	10·9	12·5
Riverview		21·2	237	e 4 58	+ 3	e 8 58	+10	e 10·3	11·4
Melbourne		27·3	233	—	—	i 10 48	+ 2	14·7	16·4
Adelaide		31·4	241	6 39	- 3	i 11 34	-24	13·5	19·5
Honolulu	E.	53·5	35	—	—	e 16 38	-25	26·7	35·4
	N.	53·5	35	—	—	i 16 50	-13	30·4	42·9
Batavia		65·3	274	e 10 42	- 5	i 19 23	- 6	33·4	—
Taihoku	E.	69·5	312	—	—	—	—	e 32·4	—
Hamburg		147·5	341	i 19 47	[- 5]	—	—	79·4	—
Budapest		148·3	324	—	—	—	—	e 78·4	86·5
De Bilt		150·1	344	—	—	—	—	e 72·4	84·4
Zagreb		151·0	325	—	—	—	—	e 82·8	—
Tortosa	N.	161·7	340	—	—	—	—	e 81·4	110·3
Toledo	N.W.	163·7	351	—	—	—	—	e 72·4	95·2
Granada		166·2	347	i 25 5	?PR <sub>1</sub>	—	—	80·4	102·3
San Fernando	E.	167·4	356	—	—	—	—	—	108·4

Additional readings and notes : Christchurch gives L as S ; R<sub>1</sub>? Riverview eP = +5m.17s., eS = +9m.12s., MZ = +11·7m., MN = +16·5m. Adelaide PR<sub>1</sub> = +7m.39s., SR<sub>1</sub> = +12m.57s., MN = +18·1m. Honolulu eN = +13m.34s. and +20m.42s. = SR<sub>1</sub> - 30s. Batavia LN = +35·4m. Budapest eLN = +76·4m. De Bilt MZ = +88·0m., MN = +88·1m. Toledo MNE = +96·1m. San Fernando MN = +107·4m.

Aug. 25d. Readings also at 2h. (Cheb.), 10h. (Irkutsk), 11h. (near Amboina), 13h. (near Algiers), 14h. (Riverview and Sucre), 15h. (Amboina, Granada, and San Fernando), 19h. (Adelaide, Melbourne, and Riverview), 20h. (Ottawa, Toronto, Granada, San Fernando, De Bilt, Uccle, Sucre, and near Apia), 22h. (Taihoku).

Aug. 26d. 6h. 41m. 30s. Epicentre 21°·5S. 169°·0E. (as on 1923 Feb. 1d.).

A = -·913, B = +·178, C = -·367 ; D = +·191, E = +·982 ; G = +·360, H = -·070, K = -·930.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		9·5	71	(e 2 30)	+ 7	(4 42)	+26	(5·3)	(7·5)
Riverview		20·0	228	e 4 42	+ 1	e 8 41	+18	e 9·5	13·8
Sydney		20·0	228	(5 12)	+31	(9 12)	+49	9·2	9·7
Wellington		20·4	168	14 51	+ 5	18 36	+ 4	—	—
Christchurch		22·2	173	—	—	(9 6)	- 3	9·5	10·2
Melbourne		26·3	227	—	—	e 10 12	-16	i 15·2	17·5
Adelaide		29·8	237	—	—	11 5	-26	16·2	20·8
Honolulu	E.	53·7	39	—	—	17 4	- 1	24·7	30·0
	N.	53·7	39	—	—	17 0	- 5	24·6	32·5
Manila		59·4	305	e 10 30?	+22	—	—	—	—
Batavia		61·5	275	e 10 19	- 3	1 18 39	- 3	—	—
Zi-ka-wei		69·7	320	e 11 28	+13	20 6	-16	—	—
Victoria		92·3	38	23 53	?S	(23 53)	[+11]	42·5	52·8
Irkutsk		92·7	326	13 24	- 7	23 33	[-11]	42·5	—
Chicago		113·9	52	—	—	26 8	-113	e 48·3	53·4
Ekaterinburg		117·3	324	e 19 23	?PR <sub>1</sub>	e 28 21	-11	—	66·6
Toronto	E.	120·1	50	—	—	e 48 30?	?	60·5	—
Ottawa	E.	122·7	49	e 20 18	?PR <sub>1</sub>	e 26 24	[+30]	61·5	—
Baku		125·6	305	e 21 6	?PR <sub>1</sub>	e 31 24	?	—	—
Pulkovo		132·0	333	1 22 57	?PR <sub>1</sub>	—	—	e 58·5	72·7
Makeyevka		132·9	317	e 22 33	?PR <sub>1</sub>	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Vienna	z. 145.4	328	e 19 30	[-19]	—	—	—	—
De Bilt	147.0	341	i 19 39	[-12]	—	—	e 69.5	81.6
Uccle	148.3	341	e 19 42	[-11]	e 41 54	?SR <sub>1</sub>	e 67.5	—
Kew	148.9	348	e 19 40	[-14]	—	—	e 71.5	—
Strasbourg	149.1	336	19 41	[-13]	—	—	e 70.5	—
Venice	149.4	328	19 30?	[-25]	—	—	—	—
Zurich	149.7	333	e 19 16	[-39]	—	—	—	—
Paris	150.6	342	—	—	—	—	e 74.5	—
Rocca di Papa	151.6	321	19 46	[-12]	—	—	e 88.6	—
Moncalieri	151.9	331	e 19 47	[-12]	(23 41)	?PR <sub>1</sub>	23.7	—
Granada	163.1	339	24 51	?PR <sub>1</sub>	—	—	83.9	86.8
San Fernando E.	164.5	346	—	—	—	—	—	112.5

Additional readings and notes: Suva i = +2m.54s., all readings having been increased by 4m. Riverview iS = +8m.45s. and +9m.21s. = SR<sub>1</sub> + 23s., MN = +11.4m. Sydney gives P as S and S as L, also P = 6h.40m.24s. Wellington PR<sub>1</sub> = +5m.3s., PR<sub>2</sub> = +5m.9s. Christchurch SR<sub>1</sub> = +5m.54s.; S has been increased by 7m. Adelaide SR<sub>2</sub> = +15m.3s., MN = +18.1m. Honolulu eE = +16m.0s. and +16m.30s. and +18m.12s., S<sub>0</sub>SE = +19m.41s., SR<sub>1</sub>E = +21m.24s., SR<sub>2</sub>E = +22m.48s., SR<sub>2</sub>N = +23m.24s. Batavia i = +19m.19s. Irkutsk PS = +24m.4s. = S - 38s. Chicago PR<sub>1</sub>E = +19m.47s., SE? = +26m.50s., PSE = +28m.48s., SR<sub>1</sub>N = +34m.48s., eSR<sub>1</sub>E = +35m.30s., eSR<sub>2</sub>N = +38m.42s. Ekaterinburg e = +4m.23s. +25m.25s. = S - 13s., +25m.36s., and +27m.37s., MZ = +66.5m. Ottawa eN = +28m.6s., e = +36m.42s. = SR<sub>1</sub> - 39s., eE = +45m.30s., LN = +69.5m. Makeyevka e = +33m.30s.? and +39m.30s.? = SR<sub>1</sub> + 4s. De Bilt iZ = +20m.1s. Strasbourg ePEN = +19m.52s., eS = +20m.40s., SR<sub>2</sub> = +21m.4s. Zurich i = +18m.24s. Rocca di Papa ePN = +19m.47s., ePE = +19m.54s. San Fernando MN = +107.5m.

Aug. 26d. 10h. 29m. 42s. Epicentre 39°-0N. 73°-0E. (as on 1925 Feb. 1d.).

A = +.227, B = +.743, C = +.629; D = +.956, E = -.292;  
G = +.184, H = +.602, K = -.777.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Simla	N. 8.6	156	e 5 36	?L	—	—	(e 5.6)	—
Baku	17.8	282	e 4 32	+17	e 8 0	+24	10.3	—
Ekaterinburg	19.6	340	e 4 34	-2	e 8 15	0	e 9.1	10.4
Bombay	20.1	181	—	—	—	—	e 9.3	—
Platigorsk	22.8	292	e 6 18?	+63	—	—	—	—
Irkutsk	25.3	48	5 36	-5	e 10 0	-9	12.9	13.1
Makeyevka	26.7	301	—	—	e 10 35	0	16.3	20.2
Pulkovo	33.8	322	—	—	e 13 5	+27	17.3	17.6
Leningrad	33.9	322	e 8 5	+61	(13 42)	+63	13.7	21.6
Strasbourg	46.6	305	—	—	—	—	e 25.3	—
De Bilt	E. 47.4	310	—	—	—	—	e 21.3	—
Kew	50.8	311	—	—	—	—	30.3	—

Additional readings: Ekaterinburg SR<sub>1</sub> = +8m.54s., MN = +10.1m., MZ = +10.2m. Makeyevka e = +13m.10s. De Bilt eLN = +25.3m.

Aug. 26d. Readings also at 0h. (Granada), 2h. (near Wellington), 4h. (Irkutsk, Ekaterinburg, and Taihoku), 5h. (Hohenheim), 12h. (near Nagasaki), 15h. (near Sumoto), 18h. (Apia), 19h. (Tokyo (2)), 23h. (De Bilt, Uccle, Granada and Tortosa).

Aug. 27d. Readings at 2h. (Kobe, near Sumoto, and Toyooka), 8h. (San Fernando), 15h. (Makeyevka, Pulkovo, Leningrad, Ekaterinburg, and Sucre), 17h. (Taihoku), 18h. (Sucre), 19h. (Honolulu).

Aug. 28d. Readings at 0h. (Ekaterinburg), 3h. (Tokyo), 5h. (Rio Tinto), 10h. (Tokyo), 12h. (near Manila), 13h. (Sucre), 14h. (near Athens), 15h. (Ekaterinburg), 16h. (Sucre and near La Paz), 19h. (Ekaterinburg and Granada), 20h. (Taihoku).

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Aug. 29d. 7h. 40m. 36s. Epicentre 46°·0N. 89°·0E. (as on 1923 Oct. 28d.).

A = +·012, B = +·695, C = +·719; D = +·1000, E = -·017;  
G = +·013, H = +·718, K = -·695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	20·5	312	i 4 50	+ 3	8 38	+ 4	9·1	14·0
Baku	28·8	273	—	—	—	—	e 13·2	—
Bombay	30·2	211	—	—	—	—	e 15·4	—
Makeyevka	34·2	291	—	—	—	—	20·4	26·7
Pulkovo	36·6	314	i 7 16	-11	13 1	-17	20·4	26·8
Leningrad	36·6	314	7 17	-10	13 2	-16	21·1	26·5
Hamburg	48·9	310	—	—	—	—	e 21·4	—
De Bilt	52·2	310	—	—	—	—	e 26·4	33·7
Strasbourg	52·5	305	—	—	—	—	e 27·4	—
Uccle	53·3	309	—	—	—	—	e 28·4	—
Kew	55·4	311	—	—	—	—	e 29·4	—
Granada	65·8	299	—	—	—	—	e 34·4	39·4

Additional readings: Ekaterinburg MN = +12·6m., MZ = +12·8m. Baku  
e = +14m.5s. and +15m.27s., l = +19m.37s. Makeyevka e = +15m.3s.,  
SR<sub>2</sub> -9a. and +17m.25s., MZ = +23·8m. Pulkovo SR<sub>1</sub> = +15m.32s.,  
MN = +24·7m., MZ = +26·6m. Strasbourg L = +32·4m. Kew L =  
+35·4m.

Aug. 29d. Readings also at 1h. (near Oaxaca), 2h. (Ekaterinburg), 4h. (near Nagasaki), 8h. (Ekaterinburg), 11h. (Bombay), 15h. (La Paz and La Plata), 16h. (Toledo and Sucre), 17h. (Puebla, Tacubaya, Vera Cruz, Merida, and Oaxaca), 19h. (Ekaterinburg), 20h. (Simla and Ekaterinburg), 21h. (Sucre).

Aug. 30d. 11h. 38m. 0s. Epicentre 37°·5N. 23°·0E.

(as on 1926 Feb. 26d.).

A = +·730, B = +·310, C = +·609; D = +·391, E = -·921;  
G = +·560, H = +·238, K = -·793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	0·7	51	i 0 30	+19	—	—	i 0·7	—
Mostar	7·0	328	2 0	+14	—	—	—	—
Sarajevo	7·2	333	i 2 1	+12	i 4 12	+57	(i 4·2)	4·6
Belgrade	7·5	347	i 2 5	+11	—	—	—	—
Naples	7·6	299	2 16	+21	3 8	-18	—	6·0
Sebenico	8·2	322	i 2 1	- 3	13 49	+ 7	i 5·8	—
Rocca di Papa	9·0	302	i 2 20	+ 4	i 4 5	+ 2	i 6·1	6·4
Zagreb	9·8	330	e 2 34	+ 7	i 4 34	+11	i 4·8	6·3
Helwan	10·3	135	i 2 22	-12	i 4 0	-37	—	4·2
Budapest	10·4	346	2 46	+10	—	—	e 5·0	10·4
Laibach	10·6	326	i 2 42	+ 4	i 4 7	-38	—	7·4
Florence	10·9	309	i 2 48	+ 5	5 18	+26	—	9·8
Graz	11·0	332	i 2 50	+ 6	i 4 55	+ 1	5·0	7·8
Vienna	11·5	338	e 2 57	+ 5	5 30	+23	i 6·7	8·3
Lemberg	12·3	3	e 3 18	+15	e 5 36	+10	—	7·0
Innsbruck	12·3	3	e 3 12	+ 9	e 6 0	+34	—	8·8
Moncalleri	13·0	323	i 3 15	+ 2	i 5 41	- 3	e 7·0	7·3
Ravensburg	13·7	308	3 24	+ 2	6 20	+19	—	12·5
Zurich	14·2	321	(3 38)	+ 9	(6 26)	+13	(i 9·0)	(9·5)
Marseilles	14·5	318	i 3 36	+ 3	i 6 28	+ 8	—	—
Cheb	14·6	299	i 4 42	+68	7 46	7L	10·0	—
Hohenheim	14·7	322	i 3 38	+ 3	i 6 30	+ 5	i 7·0	8·5
Neuchatel	15·0	323	(i 3 42)	+ 3	(i 6 32)	+ 0	(i 9·1)	(11·1)
Makeyevka	15·1	314	i 3 45	+ 5	i 6 46	+12	—	—
Strasbourg	15·2	42	i 3 46	+ 4	i 6 41	+ 4	8·0	11·7
Besançon	15·6	320	i 3 46	- 1	6 53	+ 7	e 9·0	10·5
Algiers	15·8	313	i 3 53	+ 4	6 50	- 0	—	—
Platigorsk	15·9	273	i 3 49	- 2	6 46	- 7	—	7·0
	16·5	61	i 4 14	+15	i 7 28	+21	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Barcelona	16.5	290	13 59	0	17 11	+ 4	e 8.4	11.2
Tortosa	17.7	286	14 14	+ 1	17 28	- 5	9.0	12.8
N. Bagnères	18.1	295	14 19	+ 1	7 44	+ 2	9.0	—
Hamburg	18.5	335	14 26	+ 3	17 50	- 1	e 9.4	14.7
Alicante	18.5	280	14 18	- 5	17 45	- 6	9.1	12.2
Paris	18.6	314	14 27	+ 3	17 54	+ 1	10.0	12.0
Uccle	18.8	321	14 29	+ 2	18 2	+ 4	10.0	11.9
De Bilt	19.2	325	4 34	+ 3	8 13	+ 7	10.0	—
Almeria	20.2	277	14 45	+ 2	18 35	+ 8	10.3	10.7
Baku	21.0	74	14 50	- 3	—	—	i 9.9	—
Granada	21.1	277	14 47	- 7	8 43	- 3	—	11.0
Toledo	21.2	285	14 50	- 5	18 42	- 6	e 9.6	14.6
Kew	21.5	318	14 59	0	8 57	+ 2	10.0	14.7
Malaga	21.8	276	14 55	- 8	8 50	- 11	12.6	—
Oxford	22.2	318	14 55	- 12	18 58	- 11	—	—
Pulkovo	22.7	10	15 11	- 2	19 11	- 8	11.5	13.4
Leningrad	22.9	10	15 12	- 4	19 13	- 10	10.5	12.0
West Bromwich	23.0	319	15 12	- 5	e 8 3	- 82	—	—
San Fernando	23.3	276	15 14	- 6	19 20	- 11	—	—
Rio Tinto	23.4	280	5 0?	- 21	—	—	—	12.0
Stonyhurst	23.9	321	15 18	- 9	19 30	- 12	13.0	15.3
Bidston	24.0	320	5 22	- 6	(9 43)	- 1	9.7	9.8
Lisbon	25.2	283	15 26	- 14	9 44	- 23	11.6	15.9
Edinburgh	25.4	325	5 37	- 5	10 1	- 10	13.0	—
Dyce	25.7	328	15 36	- 9	9 21	- 55	—	11.2
Ekaterinburg	31.4	40	16 28	14	11 31	- 27	—	19.2
Azores	38.1	286	7 36	- 3	—	—	—	—
Simla	44.6	83	8 6	- 24	14 30	- 40	—	—
Bombay	47.1	100	8 33	- 15	15 18	- 24	e 18.8	19.4
Hyderabad	52.3	98	9 13	- 9	16 29	- 19	26.9	34.5
Kodaikanal	55.8	105	17 12	?S	(17 12)	- 19	29.9	35.5
Irkutsk	56.3	47	19 46	- 2	i 17 35	- 3	29.0	36.6
E. Calcutta	57.4	85	11 5	+ 70	18 39	+ 48	—	—
N. Colombo	57.4	85	10 41	+ 46	18 5	+ 14	—	—
Halifax	59.7	107	10 10	0	18 20	+ 1	—	38.8
Johannesburg	62.6	308	e 10 31	+ 2	e 18 52	- 4	—	—
Harvard	63.9	176	—	—	—	—	38.0	—
Ottawa	68.4	310	i 11 29	+ 22	i 20 11	+ 4	28.1	30.6
N. Fordham	69.6	314	e 11 17	+ 2	e 20 11	- 10	e 32.0	37.0
Cape Town	70.9	309	—	—	i 20 48	+ 11	34.0	43.6
Ithaca	71.6	184	21 0	?S	(21 0)	+ 15	—	38.7
E. Toronto	71.7	311	e 11 24	- 4	i 20 48	+ 2	33.0	—
N. Toronto	72.7	314	11 33	- 1	i 20 58	0	38.1	—
Ann Arbor	72.7	314	e 11 52	+ 18	i 20 59	+ 1	35.6	—
Zi-ka-wei	76.0	315	e 12 12	+ 17	121 36	- 1	e 36.4	—
Hong Kong	77.5	60	i 11 58	- 6	—	—	—	—
Chicago	77.5	72	12 0	- 4	—	—	—	—
E. Taihoku	78.6	316	i 12 8	- 3	i 22 1	- 6	e 34.7	42.2
N. Osaka	81.3	66	e 12 28	+ 1	—	—	—	—
Mizusawa	84.4	50	12 50	+ 6	(24 1)	+ 49	24.0	25.8
Nagoya	84.6	44	(12 45)	- 1	12 45	?P	—	—
Manila	85.0	49	12 35	- 13	—	—	—	—
Batavia	87.3	74	i 12 50	- 11	—	—	37.6	—
Victoria	88.9	100	i 12 54	- 16	i 23 8	[ - 13 ]	—	—
E. Malabar	89.0	338	13 2	- 8	23 25	[ + 3 ]	42.2	53.3
Tucson	90.2	100	i 13 4	- 13	123 48	- 28	—	—
N. Lick	98.0	324	13 46	- 14	25 16	- 20	—	56.5
N. Sucre	98.3	332	e 18 18	?PR <sub>1</sub>	e 24 16	[ + 1 ]	—	—
La Paz	100.1	256	e 13 58	- 13	124 10	[ - 14 ]	49.0	58.6
Honolulu	100.9	260	13 39	- 36	i 24 25	[ - 3 ]	49.8	61.3
Riverview	121.1	1	—	—	27 30	- 88	53.2	65.5
	138.2	101	—	—	—	—	e 68.5	84.4

Additional readings and notes: Sarajevo IP = +3m.27s. Belgrade iPN = +2m.8s., iP = +2m.14s., and +2m.15s., iSR<sub>1</sub>E = +4m.9s., iSR<sub>1</sub>N = +4m.15s., and many i readings. Sebenico i = +3m.54s., +4m.55s., +5m.10s., iSR<sub>1</sub> = +5m.25s. Zagreb i = +2m.37s., +3m.1s., +3m.46s., +4m.22s., +4m.51s., and +5m.15s., iPR<sub>1</sub> = +3m.23s., iPR<sub>2</sub> = +4m.3s., iSR<sub>2</sub> = +4m.37s., MNW = +7.8m. Budapest MN = +9.4m. Laibach iSR<sub>1</sub> = +5m.16s. and +5m.40s. Graz MN = +6.8m. Vienna iPZ = +2m.58s., i = +3m.16s., iEZ = +3m.27s., and +3m.53s., iN = +4m.46s., SR<sub>1</sub> = +5m.44s., MN = +9.1m. Innsbruck ePNE = +3m.16s., MNW = +9.4m. Moncalieri readings are given for 27d. Ravensburg iS = +8m.28s.; true S is given as iP,P; all readings have been increased by 5m.

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Zurich iZ = +3m.38s. Cheb MN = +9.9m. Hohenheim iPR<sub>2</sub> = +4m.48s., iS? = +8m.14s.; true S is given as iP<sub>2</sub>P; all readings have been increased by 5m. Neuchatel readings have been increased by 1h. Makeyevka MZ = +9.1m., MN = +9.8m. Tortosa iPE = +4m.11s., SN = +7m.37s. Bagnères S? = +7m.51s. Hamburg eLN = +9.3m., MZ = +10.2m., MN = +13.2m. Alicante PR<sub>1</sub> = +4m.31s., PR<sub>2</sub> = +4m.39s., PR<sub>3</sub> = +4m.47s., MN = +13.8m., MZ = +18.7m. Almeria MN = +11.8m. Baku i = +11m.8s. Toledo PR<sub>1</sub>Z = +5m.9s., PR<sub>2</sub> = +5m.21s., PR<sub>3</sub> = +5m.33s., SR<sub>1</sub>NW = +9m.17s., MZ = +10.4m., MNW = +16.6m. Kew MN = +13.2m. Oxford PR<sub>1</sub> = +5m.50s. Pulkovo MN = +15.2m., MZ = +15.8m. Leningrad i = +8m.17s., MN = +15.7m., MZ = +17.0m. Bidston S = +7m.47s.? Ekaterinburg PR<sub>1</sub> = +17m.18s., MN = +13.0m., MZ = +20.9m. Irkutsk PR<sub>1</sub> = +12m.15s., PR<sub>2</sub> = +13m.11s., MZ = +36.4m. Halifax eP = +10m.50s.; T<sub>0</sub> = 11h.38m.12s. Harvard iPSN = +20m.36s., iPSE = +20m.46s., SPPE = +21m.4s., S<sub>0</sub>SN = +21m.36s., SR<sub>1</sub>N = +24m.41s. Ottawa iP = +11m.39s., iS = +20m.26s.; T<sub>0</sub> = 11h.38m.23s. Fordham PSN = +21m.20s., SR<sub>1</sub>N = +25m.5s., SR<sub>2</sub>N = +28m.50s., iN = +29m.5s., SR<sub>1</sub>N = +30m.5s.; T<sub>0</sub> = 11h.37m.7s. Toronto iPE = +11m.54s., iSE = +21m.35s. = [S] + 3s., iSN = +21m.33s. = [S] + 1s.; T<sub>0</sub>N = 11h.38m.5s.; T<sub>0</sub>E = 11h.38m.6s. Ann Arbor ePR<sub>1</sub> = +15m.18s., eSR<sub>1</sub> = +26m.48s., eSR<sub>2</sub> = +30m.18s., eLN = +36.5m.; T<sub>0</sub> = 11h.38m.42s. Chicago iPE = +12m.29s., PR<sub>1</sub>E = +14m.55s., PR<sub>2</sub>E = +17m.36s., iPSE = +22m.34s., eSR<sub>1</sub>E = +27m.5s., SR<sub>1</sub>E = +30m.42s., SR<sub>2</sub>E = +33m.0s. Osaka MN = +25.4m. Batavia iN = +13m.28s., i = +23m.30s. and +24m.19s. = S + 17s. Victoria MN = +50.5m.; T<sub>0</sub> = 11h.38m.37s. Tucson PR<sub>1</sub>N = +17m.49s. Lick eE = +18m.42s.?, +23m.48s.?, and +25m.30s.?. Sucre PR<sub>1</sub> = +18m.13s., iS = +24m.40s.; T<sub>0</sub> = 11h.38m.22s. and 11h.38m.48s. La Paz PR<sub>1</sub> = +17m.55s., i = +25m.1s., SR<sub>1</sub> = +29m.5s., SR<sub>2</sub> = +32m.10s. = SR<sub>1</sub> - 29s.; T<sub>0</sub> = 11h.38m.35s. Honolulu PSN = +30m.15s., SR<sub>1</sub>E = +37m.6s., eLN = +62.0m., and several e readings. Riverview ePR? = +22m.14s.

Aug. 30d. Readings also at 2h. and 7h. (2) (near Tacubaya), 10h. (near Sumoto), 12h. (Granada, Rocca di Papa (2), and Zurich (2)), 14h. (Granada and Uccle).

Aug. 31d. 10h. 40m. 0s. Epicentre 38°-5N. 28°-6W. (given by the Azores).

A = +.687, B = -.375, C = +.623; D = -.479, E = -.878;  
G = +.547, H = -.298, K = -.783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Azores	2.4	108	2 0	?	—	—	—	3.4
Lisbon	15.2	83	13 47	+ 5	6 35	- 2	—	8.6
Rio Tinto	17.3	86	8 0?	?	—	—	(8.0)	11.0
San Fernando	17.9	90	e 4 34	+18	17 44	+ 6	—	10.0
Toledo	19.0	78	e 4 27	- 2	18 15	+13	e 8.8	10.0
Malaga	19.2	88	e 4 36	+ 5	8 18	+12	—	9.9
Granada	19.8	86	1 4 42	+ 3	8 28	+ 9	i 9.7	12.8
Almeria	20.8	86	e 5 1	+10	8 54	+14	10.6	12.3
Plymouth	21.0	48	5 36	iPR <sub>1</sub>	9 38	iSR <sub>1</sub>	—	—
Alicante	21.9	82	5 10	- 1	9 4	+ 1	10.5	11.2
Tortosa	22.5	75	5 10	- 1	9 27	+12	—	14.4
	E.	75	5 14	+ 3	9 18	+ 3	10.6	12.2
Bidston	23.0	41	6 10	iPR <sub>1</sub>	9 7	-18	11.1	12.5
Oxford	23.2	46	5 40	iPR <sub>1</sub>	10 0	+31	12.2	12.9
Stonyhurst	23.5	41	5 48	iPR <sub>1</sub>	1 9 56	+21	—	13.3
Kew	23.6	48	15 20	- 4	e 9 47	+11	11.0	12.3
Barcelona	23.6	73	5 27	+ 3	9 52	+16	e 11.8	13.6
Edinburgh	24.2	36	e 8 0?	?	i 10 3	+15	i 12.5	14.5
Paris	24.6	55	e 5 32	- 2	e 9 50	- 5	13.0	14.0
Algiers	25.1	84	e 5 36	- 3	e 9 5	-60	10.6	13.0
Dyce	25.5	34	e 5 35	- 8	10 15	+ 3	—	13.6
Uccle	26.2	51	e 5 43	- 7	e 10 24	- 2	e 12.4	14.4
Besançon	26.6	60	e 5 50	- 4	e 10 33	- 0	15.0	—
De Bilt	27.0	49	5 55	- 3	10 35	- 6	12.8	16.0
Moncalieri	27.6	65	e 6 1	- 3	10 59	+ 7	15.1	19.6
Strasbourg	27.9	57	e 6 2	- 5	e 10 49	- 8	13.0	20.4
Zurich	28.3	60	e 6 4	- 7	e 10 58	- 6	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hohenheim	28.9	57	e 5 0	-77	e 10 30	-45	e 14.4	17.0
Ravensburg	29.1	59	e 7 36	+77	e 12 40	+81	—	18.8
Hamburg	30.2	47	e 6 46	+16	e 11 12	-25	e 15.6	18.7
Innsbruck	30.2	60	e 5 48	-42	—	—	e 16.0	18.2
Florence	30.2	70	e 6 50	+20	—	—	15.0	17.0
Cheb	31.1	55	—	—	e 11 0?	-53	—	18.5
Rocca di Papa	31.5	71	e 6 32	-11	—	—	e 16.3	19.1
Graz	33.0	60	e 6 39	-17	e 12 31	+ 7	16.0	19.0
Zagreb	33.4	64	e 6 50	-10	—	—	15.0	20.0
Vienna	33.6	57	—	—	e 12 22	-12	i 18.0	20.7
Ottawa	35.2	299	e 7 7	- 8	e 12 46	-12	e 17.5	21.0
Budapest	35.4	60	—	—	e 12 0?	-61	—	21.2
Upsala	35.9	38	—	—	—	—	e 15.0	21.6
Toronto	38.0	296	e 8 58	?PR <sub>1</sub>	e 13 28	-10	19.0	—
Ann Arbor	41.4	294	—	—	e 14 24	- 3	e 23.8	24.1
Leningrad	42.1	40	8 3	- 9	14 29	- 7	21.0	25.9
Pulkovo	42.2	40	8 3	- 9	14 30	- 8	21.0	26.5
Chicago	44.3	295	—	—	e 14 54	-12	21.3	26.5
Makeyevka	47.9	56	e 10 40	?PR <sub>1</sub>	e 15 53	0	24.0	27.7
Ekaterinburg	58.2	41	e 10 8	+ 8	18 14	+13	19.0	35.2
Baku	58.6	61	—	—	—	—	e 34.0	—
Victoria	65.0	315	—	—	—	—	36.1	38.9
Irkutsk	80.4	28	—	—	—	—	41.0	—

Additional readings: San Fernando MN = +16.0m. Toledo MNW = +10.1m. Granada i = +5m.35s., MZ = +11.5m. Almeria MN = +10.8m. Bidston P = +3m.22s., L = +11.7m. Kew MN = +12.7m. Barcelona MN = +13.4m. Paris MN = +16.0m. Algiers: L gives a better S. Uccle MN = +14.2m. De Bilt MN = +16.5m. Strasbourg eP = +6m.3s., eS = +10m.56s., MZ = +16.8m., MN = +17.7m. Hamburg eSE = +11m.27s., MZ = +18.8m., MN = +19.2m. Rocca di Papa e = +6m.21s., PN = +6m.49s., L = +16.5m. Budapest MN = +21.0m. Upsala MN = +23.3m. Leningrad e = +9m.23s. = PR<sub>1</sub>-24s., MZ = +25.1m. MN = +26.9m. Pulkovo PR<sub>1</sub> = +9m.50s., SR<sub>1</sub> = +16m.42s., SR<sub>2</sub> = +17m.54s., MZ = +26.4m., MN = +26.9m. Chicago eE = +18m.12s. = SR<sub>1</sub>-4s. Makeyevka MZ = +32.2m. Ekaterinburg PR<sub>2</sub> = +13m.40s., MN = +33.3m., MZ = +35.4m. Baku e = 10h.40m.0s. and 10h.48m.32s.

Aug. 31d. Readings also at 0h. (Apia), 3h. (Merida, Oaxaca, Tacubaya, and Makeyevka), 6h. (Taihoku), 12h. and 13h. (near Nagasaki), 14h. (Adelaide, Riverview, and near Nagasaki), 15h. (Baku, Ekaterinburg, and Makeyevka), 17h. (Taihoku, Manila, La Plata, La Paz (2), and Sucre), 22h. (Ekaterinburg).

Sept. 1d. 12h. 10m. 42s. Epicentre 59°-5S. 151°-5E. (as on 1925 Aug. 14d.).

A = -.446, B = +.242, C = -.862; D = +.477, E = +.879;  
G = +.757, H = -.411, K = -.508.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	20.3	51	(3 42)	-63	3 42	?P	11.1	13.4
Melbourne	22.1	346	e 7 12	+126	—	—	—	25.1
Wellington	23.2	49	e 6 18?	+59	—	—	—	18.7
Riverview	25.7	359	e 5 42	- 3	10 24	+ 8	e 12.0	16.5
Sydney	25.7	359	5 54	+ 9	10 18	+ 2	13.9	15.6
Adelaide	26.0	335	i 10 0	?S	(i 10 0)	-22	19.5	23.8
Apia	53.1	46	e 7 18?	-129	—	—	—	—
Honolulu	90.8	45	—	—	e 23 6	[-27]	25.1	—
Sucre	95.8	143	e 17 48	?PR <sub>1</sub>	—	—	50.3	55.0
Irkutsk	119.8	327	—	—	—	—	58.3	—
Baku	129.5	284	—	—	—	—	e 77.8	—
Ekaterinburg	136.5	307	e 22 37	?PR <sub>1</sub>	e 41 45	?SR <sub>1</sub>	43.3	77.1
Toronto	145.7	93	—	—	—	—	59.7	64.3
Ottawa	148.8	94	—	—	e 53 31	?SR <sub>2</sub>	e 61.3	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Granada	152.5	227	—	—	—	—	e 84.3	91.8
San Fernando	152.8	222	—	—	—	—	—	101.3
Tortosa	N. 154.0	237	—	—	—	—	e 86.3	—
Strasbourg	156.5	259	—	—	—	—	e 89.3	—
Paris	159.2	253	—	—	—	—	e 84.3	—
Uccle	159.6	259	—	—	—	—	e 81.3	—
De Bilt	160.0	263	—	—	—	—	e 79.3	—
Kew	162.4	255	—	—	—	—	—	—

Additional readings: Riverview MN = +15.5m. Adelaide eS = +15m.58s.,  
 MN = +24.0m. Honolulu eLN = +27.3m. Ekaterinburg MZ = +75.6m.,  
 MN = +79.2m. San Fernando MN = +104.8m. De Bilt eL = +90.3m.

Sept. 1d. Readings also at 0h. (Ekaterinburg and Tashkent), 2h. (near Nagasaki), 3h. (near Toyooka), 4h. and 5h. (Tashkent), 6h. (Baku), 7h. (near Zurich), 8h. (San Fernando, Sucre, and La Paz), 9h. (Tokyo), 15h. (Manila), 16h. (Sucre and La Plata), 18h. (Granada), 19h. (De Bilt, Uccle, Tashkent, Baku, Ekaterinburg, and San Fernando), 21h. (Sucre), 22h. (Baku), 23h. (near Amboina).

**Sept. 2d. 1h. 21m. 40s. Epicentre 34°OS. 57°OE.**

(as on 1926 July 22d.).

A = +.452, B = +.695, C = -.559; D = +.839, E = -.545;  
 G = -.305, H = -.469, K = -.829.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Johannesburg	26.1	280	6 20?	{PR}	10 32	+ 8	13.3	—
Cape Town	31.7	262	6 55	+11	11 57	- 6	15.7	20.8
Colombo	46.3	32	8 20?	-22	15 20	-12	22.2	24.8
Kodaikanal	48.3	26	8 50	- 6	(16 2)	+ 4	16.0	25.7
Perth	48.8	105	8 50	- 9	15 50	-14	—	—
Batavia	53.7	70	19 27	- 4	i 17 2	- 3	25.3	—
Malabar	53.7	72	i 110 26	+55	—	—	24.8	—
Bombay	55.0	19	9 41	+ 2	17 24	+ 3	25.0	29.2
Calcutta	E. 63.9	33	11 12	+35	19 34	+22	30.3	34.2
	N. 63.9	33	10 48	+11	19 17	+ 5	30.0	33.8
Adelaide	E. 65.2	116	10 46	0	i 19 26	- 1	30.2	41.0
Dehra Dun	N. 67.3	20	13 25	+145	22 55	+181	33.4	36.5
Simla	E. 67.9	19	11 8	+ 5	19 50	-11	32.3	34.3
	N. 67.9	19	11 14	+11	19 56	- 5	33.4	35.1
Helwan	68.3	337	i 111 13	+ 7	20 20	+14	—	37.1
Phu-Lien	72.3	49	i 111 32	0	i 20 52	- 2	34.3	40.8
Baku	74.7	355	i 111 51	+ 4	i 21 37	+15	37.3	48.6
Riverview	74.9	121	i 111 52	+ 4	i 21 25	0	e 35.6	37.6
Sydney	74.9	121	11 38	-10	21 32	+ 7	37.1	39.5
Tashkent	76.1	10	i 111 56	0	i 21 41	+ 3	36.3	43.4
Manila	77.8	64	i 112 8	+ 2	e 20 44	-14	32.3	39.4
Hong Kong	78.3	53	12 3	- 6	(21 53)	-11	21.9	—
Platigorsk	79.0	351	i 112 36	+23	22 33	+21	—	41.3
Christchurch	82.8	139	13 2	+27	23 20	+25	41.4	69.0
Makeyevka	83.8	349	i 112 40	- 1	i 23 7	0	38.3	45.6
Pompeii	84.4	330	e 112 49	+ 5	e 22 9	-63	52.3	56.3
Naples	84.5	330	e 12 20	-25	e 22 30	-44	49.3	57.3
Tahoku	85.1	55	12 41	- 8	(23 0)	-20	23.0	—
Belgrade	85.5	336	e 12 49	- 2	e 23 25	0	e 45.5	57.5
Wellington	E. 85.5	139	i 12 50	- 1	i 23 10	-15	43.2	46.5
	N. 85.5	139	i 12 51	0	i 23 13	-12	40.5	43.7
Rocca di Papa	85.9	329	i 12 52	- 1	e 23 16	-13	e 44.6	64.7
Algiers	86.8	320	13 0	+ 2	23 28	-11	e 38.3	54.3
La Plata	88.0	229	i 13 9	+ 4	23 35	-17	41.3	—
Zagreb	88.0	334	e 13 4	- 1	e 23 44	- 8	e 36.6	—
Budapest	88.2	337	13 8	+ 2	23 42	-12	e 33.3	51.4
Florence	88.2	330	i 13 0	- 6	25 5	+71	42.3	60.8
Lemberg	88.7	340	e 12 38	-31	e 18 44	{PR}	e 46.9	55.9
Zi-ka-wei	89.0	50	i 13 4	- 6	23 32	{+10}	38.0	50.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o.	o.	m. s.	s.	m. s.	s.	m.	m.
Graz	89-2	335	i 13 8	- 3	24 5	0	40-3	56-4
Vienna	89-8	335	e 13 9	- 6	23 55	-17	e 39-3	54-3
Alicante	89-8	320	i 13 13	- 2	e 24 15	+ 3	47-1	54-7
Almeria	89-8	318	i 13 26	+11	i 24 22	+10	44-5	55-3
Marsilles	90-5	325	e 14 32	+73	e 25 20?	+61	40-3	—
Moncalieri	90-7	328	13 51	+31	24 46	+25	38-3	73-4
Barcelona	90-7	324	13 17	- 3	e 23 47	[+15]	e 37-4	58-1
Granada	90-8	317	i 13 17	- 3	i 24 29	+ 7	40-1	55-6
Ekaterinburg	90-9	3	i 13 12	- 9	i 24 20	- 3	26-3	48-8
Malaga	90-9	317	e 13 15	- 6	24 17	- 6	34-2	55-4
Innsbruck	91-0	331	e 13 19	- 2	e 24 8	-16	e 37-3	—
Tortosa	91-1	321	i 13 20	- 2	23 53	[+18]	36-4	52-5
San Fernando	91-8	315	13 20	- 6	24 22	-11	44-3	58-3
Zurich	92-2	330	i 13 21	- 7	i 23 55	[+14]	—	—
Bavensburg	92-2	331	i 13 24	- 4	e 24 0	-37	e 34-5	52-0
Bagnères	92-8	324	e 20 20?	?PR <sub>2</sub>	—	—	44-3	—
Cheb	92-8	333	e 13 26	- 5	e 24 2	[+17]	e 49-3	63-3
Toledo	92-8	319	13 26	- 5	i 24 38	- 5	e 42-7	54-2
Rio Tinto	92-9	316	—	—	—	—	—	30-3
Hohenheim	93-0	331	e 13 26	- 6	i 24 36	- 9	e 28-6	59-9
Besançon	93-2	329	e 13 30	- 3	e 24 16	-31	—	58-3
Strasbourg	93-5	330	i 13 26	- 9	i 24 45	- 6	42-3	62-6
Lisbon	95-1	315	i 11 56	-108	—	—	—	61-9
Irkutsk	95-6	27	i 13 33	-14	24 16	[+16]	—	62-4
Paris	95-9	329	i 13 41	- 7	e 24 18	[+16]	41-3	53-3
Pulkovo	96-3	348	i 13 40	-11	25 4	-15	45-3	55-0
Leningrad	96-5	348	i 13 40	-12	25 5	-16	43-8	57-0
Hamburg	96-5	335	13 42	-10	e 24 20	[+15]	e 41-3	59-3
Uccle	96-6	330	e 13 42	-10	24 30	[+24]	e 41-3	53-8
De Bilt	97-3	332	13 45	-11	e 24 27	[+18]	e 41-3	54-6
Kew	99-1	328	e 13 53	-13	i 24 41	[+21]	42-3	61-4
Upsala	99-3	343	—	—	e 24 37	[+16]	e 45-3	67-0
Oxford	99-7	328	13 56	-13	i 24 40	[+17]	42-3	64-3
Bidston	101-6	329	18 20	?PR <sub>1</sub>	—	—	37-7	64-3
Stonyhurst	101-7	329	e 14 7	-12	24 17	[-16]	52-3	66-8
Edinburgh	103-4	330	i 18 33	?PR <sub>1</sub>	i 24 56	[+16]	43-3	72-4
Sucre	103-6	235	e 14 22	- 6	i 24 58	[+17]	44-5	56-8
Azores	104-9	305	54 20?	?L	58 38	?	61-3	63-2
La Paz	107-4	235	e 14 26	-20	25 20	[+21]	46-2	61-1
Apia	113-4	128	e 36 20?	?	—	—	53-3	59-3
Harvard	N. 139-0	298	—	—	26 56	?PR <sub>2</sub>	59-2	80-8
Fordham	140-9	294	19 27	[-14]	(23 17)	?PR <sub>1</sub>	59-1	81-5
Ottawa	142-5	302	19 40	[- 4]	—	—	e 61-3	79-1
Cheltenham	E. 142-9	291	—	—	—	—	e 68-3	71-3
Ithaca	143-0	298	e 19 31	[-14]	e 22 58	?PR <sub>1</sub>	e 66-3	—
Toronto	145-1	299	i 19 50	[+ 2]	—	—	60-3	84-4
Honolulu	E. 146-7	102	i 19 51	[+ 0]	30 22	?PR <sub>2</sub>	72-4	77-8
Ann Arbor	N. 146-7	102	e 19 52	[+ 1]	—	—	60-8	77-5
N. 148-3	296	i 19 50	[- 3]	e 34 2	?	e 74-5	86-2	—
N. 148-3	296	e 19 50	[- 3]	e 33 26	?	e 63-5	84-8	—
Chicago	E. 151-2	296	i 19 53	[- 4]	30 38?	?PR <sub>2</sub>	178-6	88-7
N. 151-2	296	—	—	—	27 56?	?PR <sub>2</sub>	e 77-5	94-9
Loyola	151-9	271	—	—	—	—	79-7	—
St. Louis	153-3	289	e 20 25	[+25]	e 30 10	?PR <sub>2</sub>	76-3	91-3
Sitka	N. 155-4	16	—	—	—	—	e 103-1	109-4
Victoria	E. 165-6	1	20 16	[+ 4]	36 4	?	69-3	103-0
N. 165-6	1	20 16	[+ 4]	36 16	?	?	—	96-5
Spokane	165-7	345	e 21 58	?	—	—	90-3	98-3
Tucson	E. 169-7	264	20 22	[+ 7]	24 20	?PR <sub>1</sub>	88-0	100-3
N. 169-7	264	20 22	[+ 7]	24 38	?PR <sub>1</sub>	?	—	101-3
Berkeley	176-1	352	e 20 30	[+13]	e 32 49	?PR <sub>1</sub>	89-3	97-9
Lick	176-4	342	e 20 24	[+ 7]	—	—	—	—

Additional readings and notes : Johannesburg readings are given for 1d. Perth gives other readings +7m.5s., +9m.53s., and +11m.44s. = PR<sub>2</sub>-3s. Bombay SR<sub>1</sub> = +21m.1s. Adelaide P = +11m.32s., iS = +20m.25s., iSR<sub>1</sub> = +26m.53s., MN = +34-7m. Riverview MN = +40-5m., MZ = +41-0m.; T<sub>2</sub> = 1h.22m.6s. Sydney SR<sub>2</sub> = +29m.38s. Tashkent e = +14m.32s., eSR<sub>2</sub> = +30m.20s.?, eSR<sub>2</sub> = +32m.29s., MZ = +44-4m., MN = +48-0m. Manila SR<sub>1</sub> = +25m.20s., SR<sub>2</sub> = +27m.8s. = SR<sub>1</sub>-34s., MN = +38-2m. Hong Kong S = +17m.52s. ? = PR<sub>2</sub>+25s. Piatigorsk

Continued on next page.

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$PR_1 = +15m.39s.$ ,  $PR_2 = +18m.37s. = PR_2 + 5s.$ ,  $PS = +23m.23s.$ ,  $SR_1 = +27m.57s.$ , Christchurch  $SR_1 = +28m.44s.$ , Makeyevka  $PR_1 = +16m.18s.$ ,  $PR_2 = +18m.24s.$ ,  $PR_3 = +19m.12s.$ ,  $PS = +24m.2s.$ ,  $SR_1 = +29m.4s.$ ,  $SR_2 = +32m.10s.$ ,  $SR_3 = +35m.6s.$ ,  $MNZ = +49.5m.$ , Taihoku  $LE = +23.1m.$ , Belgrade  $iP = +12m.55s.$ ,  $i = +13m.15s.$ ,  $PR = +14m.12s.$ ,  $+14m.40s.$ ,  $+15m.37s.$ ,  $+16m.47s. = PR_1 + 14s.$ , and  $+18m.22s. = PR_2 - 17s.$ ,  $eSN = +23m.28s.$ , Wellington  $PR_1E = +16m.8s.$ , Rocca di Papa  $eSN = +23m.19s.$ ,  $eSE = +23m.29s.$ , Algiers  $MN = +50.3m.$   
 Zagreb  $i = +13m.15s.$ ,  $e = +16m.40s. = PR_1 - 12s.$ , Budapest  $MN = +47.2m.$ , Graz  $PR_1 = +16m.49s.$ ,  $PR_2 = +18m.48s.$ ,  $SR_1 = +30m.16s.$ ,  $MN = +60.1m.$ , Vienna  $iP = +13m.11s.$ ,  $PR_1? = +16m.6s.$ ,  $PR_2 = +19m.24s.$ ,  $PS = +25m.6s.$ ,  $PPS = +25m.26s.$ , Alicante  $MN = +56.8m.$   
 Almeria  $PR_1 = +16m.56s.$ , Barcelona  $PR_1 = +16m.53s.$ ,  $PS? = +24m.21s. = S - 0s.$ ,  $MN = +58.0m.$ , Granada  $PR_1 = +16m.57s.$ ,  $PR_2 = +20m.24s. = PR_2 - 28s.$ ,  $PS = +26m.9s.$ ,  $SR_1 = +31m.17s.$ , Ekaterinburg  $PR_1 = +16m.59s.$ ,  $i = +22m.48s.$ , and  $+24m.8s.$ ,  $MN = +50.7m.$ ,  $MZ = +53.6m.$ ; is PS recorded as L? Malaga  $P = +13m.19s.$ , Tortosa  $MN = +52.1m.$ , San Fernando  $iSR_1 = +30m.36s.$ ,  $MN = +53.3m.$   
 Ravensburg  $eE = +12m.22s.$ , Toledo  $MNW = +53.5m.$ , Rio Tinto  $P = 1h.17m.$ , Hohenheim  $eE = +16m.38s.$ ,  $eN = +24m.0s. = [S] + 14s.$ ,  $iLN = +29.7m.$ ,  $MN = +62.7m.$ , Strasbourg  $P = +13m.27s.$  and  $+23m.29s.$ ,  $iZ = +17m.6s. = PR_1 - 25s.$ , and  $+21m.6s. = PR_2 - 17s.$ ,  $iN = +25m.55s.$ ,  $PS + 6s.$ ,  $MN = +61.4m.$ ,  $MZ = +62.2m.$ , Irkutsk  $ePR_1 = +17m.1s.$ ,  $PPS = +26m.12s.$ ,  $MZ = +58.5m.$ ,  $MN = +65.2m.$ , Paris  $PR_1 = +17m.37s.$ ,  $iS = +25m.3s.$ ,  $MN = +48.3m.$ , Pulkovo  $PR_1 = +17m.23s.$ ,  $PR_2 = +19m.38s.$ ,  $S_1P_1S = +24m.28s. = [S] - 24s.$ ,  $PS = +26m.20s.$ ,  $PS - 3s.$ ,  $SR_1 = +31m.2s.$ ,  $SR_2 = +35m.14s.$ ,  $MZ = +62.5m.$ , Leningrad  $PR_1 = +16m.49s.$ ,  $PR_2 = +19m.45s.$ ,  $S_1P_1S = +24m.26s. = [S] + 1s.$ ,  $iPS = +26m.27s. = PS + 2s.$ ,  $MN = +56.6m.$ ,  $MZ = +57.9m.$ , Hamburg  $iPR_1 = +17m.42s.$ ,  $eLZ = +45.3m.$ , Uccle  $ePR_1 = +17m.32s.$ ,  $MN = +56.9m.$   
 De Bilt  $PR_1 = +17m.47s.$ ,  $MZ = +63.1m.$ ,  $MN = +68.1m.$ , Kew  $PR_1 = +17m.52s.$ ,  $MN = +63.2m.$ , Upsala  $MN = +60.5m.$ , Oxford  $PR_1 = +18m.20s.$ ,  $i = +32m.44s. = SR_1 + 10s.$ ,  $MN = +69.0m.$ , Edinburgh  $i = +27m.49s. = PS + 7s.$ ; all readings being given for 1d. Sucre  $PR_1 = +18m.43s.$ ,  $i = +27m.52s. = PS + 7s.$ ,  $SR_1 = +30m.32s.$ ,  $SR_2 = +33m.32s. = SR_1 + 10s.$ ,  $SR_3 = +37m.2s.$ , La Paz  $PR_2 = +20m.37s.$ ,  $SR_1 = +31m.56s.$ ,  $SR_2 = +36m.43s.$ ,  $MN = +57.8m.$ , Harvard  $PR_1N = +22m.32s.$ ,  $ePR_1E = +22m.37s.$ ,  $PR_1N = +25m.8s.$ ,  $S_0P_0S_0N = +28m.50s. = PR_1 + 6s.$ ,  $PSE = +32m.44s.$ ,  $PPSN = +34m.36s.$  and  $+35m.14s.$ ,  $PPSE = +34m.48s.$ ,  $SR_1E = +40m.59s.$ ,  $SR_1N = +41m.0s.$ ,  $SR_2N = +49m.26s.$ ,  $ME = +75.8m.$   
 Fordham  $iPE = +22m.52s. = PR_1 + 13s.$ ,  $PR_1E = +23m.20s.$ ,  $SR_1 = +41m.20s.$ ,  $SR_1N = +46m.20s.$ , Ottawa  $PR_1E? = +22m.56s.$ ,  $PPSE? = +35m.50s.$ ,  $SR_1? = +41m.35s.$ ,  $SR_1E? = +46m.53s.$ ,  $MN = +82.3m.$ ;  $T_1 = 1h.21m.30s.$ , Ithaca  $e = +41m.45s. = SR_1 + 17s.$ , Toronto  $iN = +19m.53s.$ ,  $iE = +20m.5s.$  and  $+23m.10s. = PR_1 + 3s.$ ,  $eE = +23m.34s. = PR_1 + 27s.$  and  $+42m.41s. = SR_1 - 12s.$ ,  $MN = +81.2m.$ , Honolulu  $eE = +19m.30s.$ ,  $iPN? = +20m.42s.$ ,  $iPE? = +20m.50s.$ ,  $iPR_1E = +23m.11s.$ ,  $ePR_1N? = +23m.32s.$ ,  $PR_1N = +26m.20s. = PR_1 - 37s.$ ,  $PR_1N = +28m.56s.$ ,  $PR_1E? = +31m.50s. = S + 10s.$ ,  $PS_0P_0SE = +33m.40s.$ ,  $PS_0P_0SN = +33m.52s.$ ,  $PSN = +35m.23s.$ ,  $PPSE = +36m.50s.$ ,  $SR_1N = +42m.8s.?$ ,  $eSR_1E = +48m.0s.$ ,  $SR_1E = +52m.32s.$ ,  $SR_1E? = +53m.50s.$ ,  $SR_1N = +56m.20s.$ , Ann Arbor  $iE = +23m.26s. = PR_1 + 0s.$ ,  $iN = +42m.44s. = SR_1 + 13s.$ , Chicago  $ePE = +20m.9s.$ ,  $ePN = +20m.14s.$ ,  $PR_1E = +23m.30s.$ ,  $PR_1N = +23m.31s.$ ,  $PR_1N = +27m.5s.$ ,  $PR_1 = +29m.20s.$ ,  $S_0P_0S_0SE = +30m.38s.?$ ,  $PR_1N = +32m.0s.$ ,  $PS_0P_0SE = +34m.9s.$ ,  $PSE = +35m.47s.$ ,  $PPSE = +36m.50s.$ ,  $SR_1N = +43m.14s.$ ,  $SR_1E = +43m.40s.$ ,  $SR_1N = +48m.53s.$ ,  $SR_1E = +49m.23s.$ ,  $eSR_1E = +52m.44s.$ ,  $SR_1N? = +55m.50s.$ , St. Louis  $eN? = +24m.20s. = PR_1 + 22s.$ ,  $eE? = +32m.7s.$   
 Sitka  $ME = +110.5m.$ , Spokane  $e = +22m.18s.$ ,  $eN = +22m.52s.$ ,  $e = +26m.36s.$  and  $+27m.56s.$ , Tucson  $PR_1E = +25m.27s.$ ,  $PR_1N = +25m.43s.$ ,  $PR_1E = +26m.54s.$ ,  $S_1P_1SE? = +25m.5s.$ ,  $PR_1E? = +29m.16s.$  and  $+30m.10s.$ ,  $S_0P_0S_0SE = +31m.46s.$ ,  $PR_1E = +32m.17s.$ ,  $PR_1N = +32m.20s.?$ ,  $S_0P_0S_0SE = +32m.50s.$ ,  $PR_1E = +35m.30s.$ ,  $PS_0P_0SN = +36m.25s.$ ,  $eSR_1E? = +45m.38s.$ ,  $eSR_1N = +46m.8s.$ ,  $eSR_1E = +46m.38s.$ ,  $SR_1E = +49m.2s.$ ,  $SR_1N = +49m.20s.$ ,  $SR_1N = +53m.20s.$ ,  $SR_1E = +53m.42s.$ ,  $SR_1E = +57m.2s.$ ,  $SR_1N = +57m.14s.$ ,  $SR_1E = +57m.50s.$  and  $+61m.20s.$ , Berkeley  $ePR_1N = +25m.55s. = PR_1 - 15s.$ ,  $ePR_1Z = +25m.56s. = PR_1 - 14s.$ ,  $ePR_1E = +25m.58s.$ ,  $MN = +99.6m.$ , Lick  $i = +25m.58s. = PR_1 - 14s.$ ,  $e = +47m.45s. = SR_1 - 3s.$ , and several other e and i readings.

Sept. 2d. Readings also at 2h. (Mizusawa), 3h. (Hamburg), 4h. (Melbourne), 6h. (La Paz), 7h. (La Paz, La Plata, and Sucre), 13h. (near Nagasaki (2)), 18h. (Irkutsk, Tashkent, Makeyevka, Ekaterinburg, Pulkovo, De Bilt, and Honolulu), 19h. (Baku, Leningrad, Kew, Paris, Uccle, Strasbourg, Granada, San Fernando, Chicago, Ottawa, and Toronto), 23h. (Irkutsk, Ekaterinburg, Pulkovo, and Tashkent).

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Sept. 3d. 21h. 59m. 50s. Epicentre 41°-5N. 26°-5E.

A = +.670, B = +.334, C = +.663; D = +.446, E = -.895;  
G = +.593, H = +.296, K = -.749.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	4.2	211	1 33	+28	2 10	+15	2.2	2.5
Belgrade	5.5	309	e 1 22	- 3	e 2 29	- 2	—	2.7
Budapest	8.0	321	e 2 10?	+ 9	—	—	4.2	—
Lemberg	8.5	349	e 3 4	+55	—	—	—	6.5
Zagreb	8.7	303	e 2 33	+21	e 5 6	+ 70	(e 5.1)	—
Pompeii	9.0	269	e 4 10	?S	(e 4 10)	+ 7	(e 6.2)	—
Graz	9.6	309	e 2 23	- 1	e 4 15	- 3	4.5	5.4
Vienna	9.8	317	2 34	+ 7	5 0	+37	(5.0)	6.1
Rocca di Papa	10.3	276	3 44	+70	e 4 31	- 6	—	6.4
Makeyevka	10.4	47	e 4 39	?S	(e 4 39)	- 1	7.2	9.1
Florence	11.4	237	e 4 50	?S	(e 4 50)	-14	(6.2)	7.4
Innsbruck N.E.	12.2	303	—	—	—	—	e 6.2	—
Cheb	13.0	316	e 6 10	?L	—	—	(e 6.2)	7.2
Zurich	14.0	301	e 3 21	- 5	—	—	e 7.0	—
Moncalieri	14.1	291	e 3 55	+28	6 48	+38	8.4	9.8
Hohenheim	14.1	307	—	—	e 6 42	+32	7.6	—
Strasbourg	15.0	305	e 3 40	+ 1	e 6 34	+ 2	7.2	—
Besançon	15.7	298	—	—	—	—	9.4	—
Kucino	16.1	24	—	—	—	—	e 7.9	—
Hamburg	16.3	327	e 2 10?	?	—	—	e 8.2	—
Uccle	17.8	309	e 3 58	-17	e 7 40	+ 4	e 8.7	9.9
De Bilt	17.9	314	e 4 13	- 3	e 7 34	- 4	e 8.6	10.1
Paris	18.3	302	e 4 21	0	e 7 36	-11	9.7	10.2
Pulkovo	18.4	6	4 25	+ 3	7 44	- 5	9.9	11.1
Leningrad	18.6	6	4 26	+ 2	e 7 45	- 8	8.8	12.6
Algiers	18.7	263	e 3 28	-57	—	—	e 12.2	—
Tortosa	19.5	277	4 31	- 4	—	—	e 10.2	14.2
Kew	20.8	308	e 4 46	- 5	e 8 29	-11	9.2	13.2
Oxford	21.5	308	—	—	—	—	10.5	13.1
Almeria	22.7	268	e 5 7	- 6	—	—	—	10.2
Granada	23.6	269	15 18	- 6	19 24	-12	12.6	16.0
Edinburgh	24.0	317	—	—	e 9 30	-14	—	16.2
Ekaterinburg	26.6	43	e 6 2	+ 8	e 10 42	+ 9	11.2	18.2
Tashkent	31.8	76	—	—	e 11 40	-25	e 20.2	22.8
Irkutsk	51.6	50	—	—	—	—	e 23.2	—

Additional readings: Belgrade eP = +1m.38s., iS = +2m.36s., Lemberg MN = +6.3m. Pompeii gives S as P and L as S. Zagreb ePR<sub>1</sub> = +3m.46s. and +4m.10s.? Vienna iN = +3m.52s., iE = +4m.0s. Rocca di Papa ePN = +4m.3s., eSZ = +4m.43s., eSE = +4m.48s. Makeyevka iP = +6m.7s., eS = +6m.29s., MZ = +9.2m. Kucino L = +8.6m. De Bilt MZ = +11.6m. Pulkovo MNZ = +12.1m. Leningrad MNZ = +12.2m. Kew MN = +11.4m. Almeria i = +5m.34s. Ekaterinburg e = +8m.52s., MN = +15.0m., MZ = +17.2m. Tashkent MN = +22.5m., MZ = +25.6m.

Sept. 3d. Readings also at 2h. (Nagasaki (2)), 3h. (Tashkent and near Irkutsk), 6h. (Tashkent, Irkutsk (2), Pulkovo, Leningrad, and Ekaterinburg), 7h. (Hohenheim, Tashkent, Ekaterinburg, and Manila), 8h. (Sucre), 11h. (Nagasaki), 12h. (Taihoku and Tashkent), 13h. (Nagasaki and Tokyo), 14h. (Nagasaki), 17h. (Tokyo), 18h. (Tashkent, Ekaterinburg, Granada, De Bilt, and Uccle), 20h. (Baku), 21h. (Ekaterinburg and Tashkent), 23h. (Hong Kong, Ekaterinburg, Tashkent, Irkutsk, and near Phu-Lien).

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Sept. 4d. 12h. 54m. 24s. Epicentre 22°-0S. 172°-0E. (as on 1925 April 1d.).

A = -0.918, B = +0.129, C = -0.375; D = +0.139, E = +0.990;  
G = +0.371, H = -0.052, K = -0.927.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Wellington	19.4	174	4 35	+ 1	18 10	0	—	—
Riverview	21.8	233	4 36?	-27	e 8 54	- 7	e 9.2	10.8
Adelaide	31.9	238	9 52?	+186	13 16	+69	14.2	21.1?
Ekaterinburg	119.9	323	e 18 53	[+ 1]	—	—	23.6	—
Hamburg	Z. 145.6	341	i 19 40	[- 9]	—	—	—	—
Vienna	Z. 147.4	330	e 19 42	[-10]	—	—	—	—
De Bilt	Z. 148.3	345	e 19 49	[- 4]	e 23 19	?PR <sub>1</sub>	—	—
Innsbruck	N.W. 150.3	333	e 19 54	[+ 2]	—	—	—	—
Strasbourg	150.7	339	e 19 36?	[-21]	—	—	—	—
Zurich	N. 151.4	336	i 19 56	[- 2]	—	—	—	—
Granada	164.4	347	i 24 42	?PR <sub>1</sub>	—	—	—	—

Additional readings: Riverview eS = +8m.42s. Adelaide MN = +14.9m.  
Ekaterinburg e = +20m.7s. = PR<sub>1</sub>-16s. Vienna iPZ = +19m.45s.

Sept. 4d. 15h. 36m. 58s. Epicentre 43°-5N. 143°-0E.

(as on 1926 March 25d.).

A = -0.579, B = +0.437, C = +0.688; D = +0.602, E = +0.799;  
G = -0.550, H = +0.414, K = -0.725.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Ootomari	3.2	357	1 5	+15	—	—	2.4	3.1
Mizusawa	E. 4.6	198	1 4	- 7	1 46	-20	—	—
	N. 4.6	198	1 5	- 6	1 47	-19	—	—
Nagoya	9.5	211	2 25	+ 2	(4 19)	+ 3	4.3	4.7
Osaka	10.6	216	2 32	- 6	(4 47)	+ 2	4.8	6.6
Kobe	10.7	217	2 32	- 8	(4 33)	-15	4.6	6.6
Sumoto	11.1	217	2 36	-10	(4 56)	- 1	4.9	5.5
Hukuoka	13.9	229	3 16	- 9	(6 40)	+34	6.7	9.7
Nagasaki	14.9	228	3 31	- 7	6 28	- 2	7.2	10.2
Zi-ka-wei	21.0	241	14 44	- 9	8 34	-10	—	14.9
Taihoku	E. 25.4	230	5 27	-15	9 54	-17	14.3	18.0
Irkutsk	27.0	302	15 56	- 2	1 10 36	- 5	14.0	17.7
Hong Kong	31.8	238	6 32	-13	11 37	-28	16.9	20.0
Manila	34.5	220	6 43	-26	—	—	10.0	11.0
Phu-Lien	37.8	244	17 20	-16	e 13 6	-29	18.5	—
Ambolna	49.0	201	16 48	-132	—	—	—	—
Calcutta	E. 49.3	266	9 3	+ 1	16 3	- 7	—	—
	N. 49.3	266	9 11	+ 9	16 5	- 5	—	—
Ekaterinburg	51.0	316	19 14	+ 1	1 16 35	+ 4	21.0	33.1
Simla	E. 52.4	281	—	—	e 16 20	-29	—	—
Tashkent	52.6	296	e 10 24	+60	1 17 47	+56	e 23.0	31.9
Honolulu	53.2	95	—	—	e 16 42	-17	21.9	—
Batavia	59.4	225	i 10 1	- 7	1 18 4	-12	—	—
Hyderabad	59.7	269	e 10 28	+18	18 16	- 3	33.7	42.2
Victoria	E. 61.1	50	10 17	- 3	20 0	+83	29.4	29.4
	N. 61.1	50	10 17	- 3	20 37	+120	—	36.7
Bombay	62.8	273	10 44	+13	19 0	+ 2	e 32.7	—
Leningrad	62.9	329	1 10 37	+ 6	1 19 8	+ 8	28.7	40.9
Pulkovo	63.0	329	1 10 37	+ 5	1 19 8	+ 7	32.3	40.8
Spokane	64.7	49	19 3	-100	—	—	—	—
Baku	65.4	304	1 10 53	+ 6	1 19 49	+19	34.0	43.2
Colombo	65.9	259	12 2?	+72	—	—	46.2	—
Platigorsk	67.1	311	e 11 37	+38	20 30	+39	—	36.0
Makeyevka	67.3	316	1 11 5	+ 5	20 2	+ 8	30.0	31.7
Upsala	67.4	334	1 11 2	+ 2	1 19 59	+ 4	e 33.0	43.4
Bergen	70.5	340	1 11 35	+15	20 42	+10	e 43.0	—
Lemberg	72.5	324	e 21 2	?S	(e 21 2)	+ 6	e 46.3	49.1
Hamburg	75.0	334	1 11 51	+ 2	1 21 27	+ 1	e 39.0	47.0
Dyce	75.1	343	1 11 50	0	1 21 27	0	37.6	43.2
Budapest	76.5	326	12 6	+ 8	21 54	+11	e 35.0	52.3
Edinburgh	76.6	342	—	—	1 21 50	+ 6	42.0	52.0

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vienna	77-0	327	i 12 3	+ 2	i 21 55	+ 6	e 34-0	49-0
Cheb	77-0	330	e 12 3	+ 2	e 21 50	+ 1	e 39-0	50-0
De Bilt	77-7	335	12 5	0	22 0	+ 3	e 37-0	41-9
Riverview	77-7	175	e 12 17	+12	e 22 2	+ 5	e 36-9	37-8
Stonyhurst	78-2	340	12 11	+ 3	i 22 6	+ 4	—	53-0
Graz	78-3	328	e 12 9	0	e 22 5	+ 1	36-0	49-8
Adelaide	78-5	185	—	—	e 20 17	?	e 34-6	39-2
Tucson	E. 78-7	57	12 3	- 8	21 55	-13	37-1	46-7
Bidston	78-8	340	12 11	- 1	22 24	+14	38-2	48-3
Uccle	79-1	335	i 12 13	- 1	i 22 12	- 1	e 38-0	52-5
Zagreb	79-1	325	12 23	+ 9	i 22 15	+ 2	e 44-8	—
Hohenheim	E. 79-2	332	i 12 14	0	e 22 14	- 0	e 43-0	54-4
	N. 79-2	332	i 12 14	0	e 22 12	- 2	e 43-1	48-4
Innsbruck	79-7	329	i 12 19	+ 2	e 22 2	-18	e 44-0	52-0
Strasbourg	79-9	331	i 12 17	- 1	i 22 20	- 2	39-0	49-7
Ravensburg	79-9	331	e 12 14	- 4	i 22 26	+ 4	e 42-3	46-4
Kew	79-9	340	e 12 16	- 2	i 22 20	- 2	38-0	52-8
Oxford	79-9	340	12 16	- 2	i 22 16	- 6	42-2	46-1
Zurich	80-7	331	i 12 21	- 2	i 22 29	- 2	i 26-4	—
Melbourne	81-3	180	—	—	—	—	e 31-0	39-0
Paris	81-4	335	i 12 26	- 1	i 22 39	- 0	41-0	53-0
Besançon	81-7	333	—	—	22 41	- 2	43-0	—
Florence	82-7	326	i 12 30	- 4	23 2	+ 8	41-0	53-5
Moncalieri	83-0	331	i 12 26	-10	22 42	-15	40-0	51-6
Chicago	E. 83-4	36	—	—	i 22 44	-17	i 35-1	48-9
	N. 83-4	36	e 12 29	- 9	i 22 47	-14	e 40-7	48-9
Rocca di Papa	83-8	325	i 12 36	- 5	22 52	-15	e 47-2	50-9
Pompeii	83-8	324	e 13 3	+2	e 23 2?	- 5	48-0	—
Naples	83-8	324	e 12 12	-29	e 22 12	-55	47-0	—
Ann Arbor	84-6	33	e 12 26	-20	i 22 44	-31	e 40-3	—
Ottawa	84-7	26	e 12 39	- 7	i 22 54	[+ 0]	e 38-0	—
Toronto	E. 85-0	30	—	—	22 57	[+ 1]	38-3	49-6
	N. 85-0	30	e 12 34	-14	e 22 54	[+ 2]	39-0	49-8
Ithaca	87-1	29	—	—	i 23 8	[+ 2]	45-0	—
Barcelona	88-0	332	e 13 11	+ 6	e 23 16	[+ 1]	e 37-6	51-4
Harvard	E. 88-8	25	—	—	23 26	[+ 5]	43-5	49-8
	N. 88-8	25	—	—	i 23 26	[+ 5]	44-1	51-9
Tortosa	E. 89-2	334	13 7	- 4	23 30	[+ 4]	39-4	52-6
	N. 89-2	334	13 2	- 9	23 27	[+ 2]	e 43-0	—
Wellington	89-5	158	—	—	23 2	[+ 23]	e 43-0	—
Toledo	90-8	336	i 13 13	- 7	i 23 43	[+10]	e 39-7	58-7
Allcante	91-7	335	13 9	-16	23 35	[+ 3]	40-2	58-4
Algiers	91-8	330	e 13 14	-12	e 23 44	[+ 5]	—	53-9
Almeria	93-7	335	e 13 13	-23	1-23 46	[+ 5]	e 40-3	52-3
Granada	93-8	335	i 13 25	-12	1-24 35	[+ 5]	45-8	51-2
Rio Tinto	94-2	338	24 2?	?S	(24 2?)	[+ 9]	—	58-0
Malaga	94-5	336	e 13 24	-17	23 57	[+ 3]	—	—
San Fernando	95-3	337	—	—	i 24 2	[+ 3]	49-0	62-0
La Paz	142-3	55	e 19 35	[- 9]	—	—	79-9	89-2
Sucre	146-0	53	i 19 42	[- 8]	e 33 44	?	70-8	83-1

Additional readings: Ootomari MN = +2.7m. Nagoya MN = +6.5m.  
 Osaka MN = +5.8m. Kobe S = +3m.27s., MN = +5.8m. Sumoto  
 S = +3m.47s., MZ = +5.0m., MN = +5.2m. Zi-ka-wei SR<sub>1</sub>E = +8m.50s.  
 Taihoku SN = +9m.57s. Irkutsk MN = +15.2m. Manila MN =  
 +11.1m. Ekaterinburg SR<sub>1</sub> = +10m.45s., MN = +30.5m., MZ = +33.2m.  
 Simla eN = +16m.32s. Tashkent ePR<sub>1</sub> = +12m.2s., ePR<sub>2</sub> = +13m.26s.,  
 i = +20m.5s., MZ = +30.6m., MN = +34.4m. Honolulu S<sub>c</sub>SE =  
 +19m.38s. Batavia PZ = +10m.7s. Leningrad PR<sub>1</sub> = +15m.12s. =  
 PR<sub>2</sub> - 2s., PS = +20m.2s., SR<sub>1</sub> = +23m.50s., SR<sub>2</sub> = +26m.56s., MN =  
 +40.3m. Pulkovo PR<sub>1</sub> = +13m.11s., PR<sub>2</sub> = +14m.37s., SR<sub>1</sub> = +24m.8s.,  
 SR<sub>2</sub> = +26m.38s., MZ = +41.9m., MN = +44.1m. Spokane iE = +9m.18s.  
 i = +9m.20s., +9m.31s., +9m.36s., and +9m.46s., eN = +17m.18s., iN =  
 +17m.36s., and +18m.10s. Makeyevka PR<sub>1</sub> = +13m.49s., PS =  
 +20m.53s., SR<sub>1</sub> = +24m.33s., MN = +43.6m., MZ = +43.8m. Upsala  
 eLN = +35.0m., MN = +43.2m. Lemberg eS = +32m.50s. Hamburg  
 iSN = +21m.30s., eZ = +38m.2s.?, MNZ = +46.0m. Dyce PR<sub>1</sub> =  
 +14m.40s. Vienna PS = +22m.56s., SR<sub>1</sub> = +31m.40s. De Bilt  
 PR<sub>1</sub>Z = +15m.5s., MN = +43.0m., MZ = +50.4m. Riverview e =  
 +16m.8s., MN = +39.7m. Adelaide MN = +40.0m. Tucson eE =  
 +22m.15s. and +22m.50s. = PS + 1s.; T<sub>0</sub> = 15h.37m.7s. and 15h.37m.15s.

Continued on next page.

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Uccle ePR<sub>1</sub> = +15m.17s., MN = +50.8m. Zagreb e = +22m.26s.,  
 +32m.13s., and +42m.14s. Hohenheim iPR<sub>1</sub>N = +15m.34s., eS<sub>1</sub>PSE =  
 +22m.23s., iS<sub>1</sub>P<sub>2</sub>SN = +22m.26s. Strasbourg iS = +22m.23s., MN =  
 +53.6m., MZ = +53.7m. Ravensburg iE = +22m.36s. Kew MN =  
 +47.8m. Oxford PR<sub>1</sub> = +15m.28s. Chicago P<sub>2</sub>PN = +12m.52s.,  
 PR<sub>1</sub>N = +15m.44s., iPR<sub>1</sub>E = +15m.47s., S<sub>2</sub>SE = +23m.22s., PSN =  
 +23m.38s., PPSE = +24m.20s., P<sub>2</sub>S<sub>2</sub>C<sub>2</sub>PE = +27m.38s., SR<sub>1</sub>N = +28m.2s.,  
 SR<sub>1</sub>E = +28m.44s., SR<sub>2</sub>E = +31m.56s., SR<sub>2</sub>E? = +33m.44s. Ann Arbor  
 ePR<sub>1</sub> = +15m.44s., iSR<sub>1</sub> = +28m.44s.; T<sub>0</sub> = 15h.37m.0s. Ottawa ePR<sub>1</sub>N =  
 +16m.10s., eLN = +40.0m.; T<sub>0</sub> = 15h.37m.20s. Toronto PR<sub>1</sub>N =  
 +16m.17s., iSN = +23m.0s.; T<sub>0</sub> = 15h.37m.3s. Ithaca e = +22m.20s.  
 Harvard PR<sub>1</sub>N = +16m.46s., S<sub>2</sub>SN = +23m.49s., PSE = +24m.26s., SR<sub>2</sub>N =  
 +32m.42s., SR<sub>2</sub>N = +35m.24s. Toledo i = +24m.15s. = S + 10s., MNW =  
 +51.6m. Almeria PR<sub>1</sub> = +16m.54s., MN = +53.6m. Granada i =  
 +13m.46s., PR<sub>1</sub> = +17m.18s., PR<sub>2</sub> = +19m.39s., PS = +26m.9s., SR<sub>1</sub> =  
 +30m.9s., SR<sub>2</sub> = +34m.16s. San Fernando MN = +63.0m. La Paz  
 PR<sub>1</sub> = +23m.45s., PR<sub>2</sub> = +29m.33s. = PR<sub>2</sub> + 22s. Sucre PR<sub>1</sub> = +23m.4s.,  
 SR<sub>2</sub> = +42m.4s. = SR<sub>1</sub> + 0s., SR<sub>2</sub> = +46m.46s.

Sept. 4d. Readings also at 2h. (Ekaterinburg, Irkutsk, and Tashkent), 5h. (Ekaterinburg and Tashkent), 7h. (Ekaterinburg), 8h. (Athens (2)), 9h. (Nagasaki and Athens (2)), 10h. (Athens (3)), 12h. and 13h. (Nagasaki), 14h. (Toyooka), 15h. (Batavia and near Mizusawa), 19h. (near Athens), 21h. (near Mostar), 22h. (Manila and Ekaterinburg), 23h. (Ekaterinburg and Tashkent).

Sept. 5d. Readings at 1h. (Ekaterinburg and Hamburg), 2h. (Irkutsk and Tashkent), 3h. (near Rocca di Papa), 4h. (Irkutsk, Taihoku, Zi-ka-wei, and near Mostar), 5h. (De Bilt, Uccle, Tashkent, Pulkovo, and Lenin-grad), 6h. (Tashkent, Granada, and near Sumoto (2)), 7h. (near Sumoto), 8h. (near Tacubaya and near Toyooka), 9h. (Chicago, La Paz, Sucre, and near Mostar), 12h. (near Tacubaya), 17h. (Cape Town), 23h. (Florence, Rocca di Papa, and Zagreb).

Sept. 6d. 0h. 16m. 22s. Epicentre 35°-08. 75°-0W. (as on 1924 Sept. 19d.).

A = +.212, B = -.791, C = -.574; D = -.966, E = -.259;  
 G = -.148, H = +.554, K = -.819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	3.9	68	1 5	+ 4	—	—	—	—
La Plata	14.0	94	3 28	+ 2	6 11	+ 3	6.9	—
Sucre	18.2	31	e 4 12	- 7	17 26	- 18	18.9	9.9
La Paz	19.5	20	4 38	+ 3	18 14	+ 1	9.8	11.4
Cape Town	73.8	120	—	—	—	—	—	42.6
Chicago	77.7	351	—	—	21 58	+ 1	32.5	48.7
Ann Arbor	n.	77.8	355	—	—	—	e 41.2	—
Toronto	77.8	357	e 12 38	+26	—	—	43.5	—
Ottawa	80.4	0	e 12 14	- 7	e 22 32	+ 4	e 33.6	—
Victoria	93.9	330	24 23	?S	(24 23)	-32	—	52.6
San Fernando	95.9	49	—	—	24 15	[+13]	—	55.6
Honolulu	e.	96.7	292	—	—	—	e 47.2	—
Granada	98.0	50	e 12 44	-76	1 24 3	[-10]	—	56.2
Melbourne	98.3	211	—	—	—	—	—	55.5
Riverview	98.7	218	—	—	e 46 38?	?L	e 51.1	60.7
Toledo	n.w.	99.4	48	—	—	—	e 44.1	65.2
Algiers	102.0	54	—	—	—	—	e 51.6	57.6
Tortosa	n.	102.7	49	(e 23 36)	?PR <sub>2</sub>	—	e 23.6	57.2
Adelaide	103.3	208	—	—	—	—	e 50.8	62.1
Oxford	108.0	40	—	—	—	—	52.6	60.3
Kew	108.3	40	—	—	e 41 38?	?	55.6	60.6
Paris	108.4	44	—	—	—	—	e 57.6	61.6
Stonyhurst	108.6	39	—	—	—	—	e 51.6	62.1
Moncalieri	109.4	50	—	—	e 27 3	-20	55.5	69.5
Edinburgh	109.4	35	—	—	—	—	58.6	—
Uccle	110.5	42	—	—	e 21 19	?PR <sub>2</sub>	e 49.6	62.6
Dyce	110.6	32	—	—	e 25 32	[+20]	50.0	75.7
Rocca di Papa	111.0	52	—	—	e 31 9	?	e 59.7	64.8
Florence	111.0	51	e 19 43	?PR <sub>1</sub>	—	—	—	63.6

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	111.2	44	—	—	e 38 38	?	e 57.6	—
De Bilt	111.5	41	—	—	e 25 44	[+28]	e 51.6	62.2
Ravensburg	111.9	45	—	—	—	—	e 60.1	65.3
Hohenheim	112.2	43	—	—	—	—	e 60.4	70.1
Cheb	114.6	44	—	—	e 29 38?	+91	—	65.6
Zagreb	114.9	50	—	—	—	—	e 64.6	—
Graz	115.2	48	e 22 2	?PR <sub>2</sub>	—	—	e 61.6	66.6
Athens	116.7	60	—	—	—	—	e 64.1	68.6
Budapest	117.5	48	—	—	—	—	e 65.1	—
Upsala	121.0	35	—	—	—	—	68.6	—
Pulkovo	127.2	37	—	—	—	—	65.6	74.7
Leningrad	127.2	37	—	—	—	—	64.3	74.2
Makeyevka	129.8	51	e 22 38?	?PR <sub>1</sub>	(31 36)	+96	31.6	76.1
Baku	136.8	65	e 22 8	?PR <sub>1</sub>	(e 34 26)	?	73.6	99.5
Colombo	143.6	133	29 38?	?PR <sub>2</sub>	—	—	84.6	87.6
Kodaikanal	144.7	126	68 32	?L	—	—	(68.5)	—
Bombay	147.3	110	e 42 38?	?SR <sub>1</sub>	—	—	—	—
Tashkent	151.4	67	i 24 22	?PR <sub>1</sub>	i 40 48	?	e 79.6	95.0
Irkutsk	162.7	2	e 20 37	[+27]	—	—	e 76.1	—

Additional readings: La Paz LN = +9.7m, MN = +11.0m; T<sub>0</sub> = 0h.16m.30s.  
 Chicago eN = +25m.14s., SR<sub>2</sub>E? = +30m.44s., MN = +49.8m. San  
 Fernando MN = +55.1m. Granada e = +18m.2s. = PR<sub>1</sub> + 2s., i =  
 +19m.53s. and +26m.26s. Riverview MN = +61.7m. Toledo MNE =  
 +57.0m. Adelaide eL = +54.0m., MN = +59.0m. Uccle MN =  
 +64.6m. De Bilt MZ = +65.0m., MN = +65.1m.; epicentre 35°S, 74°W.  
 Leningrad MZ = +74.3m., MN = +78.5m. Makeyevka MZ = +80.2m.  
 Tashkent i = +24m.44s., MN = +96.5m., MZ = +97.5m.

Sept. 6d. 0h. 49m. 42s. } Epicentre 35°-0S. 75°-0W. (as at 0h.).  
 0h. 58m. 40s. }  
 1h. 51m. 40s. }

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Santiago	3.9	68	1 0	- 1	—	—	—	—
II	3.9	68	(0 53)	- 8	—	—	—	—
III	3.9	68	0 56	- 5	—	—	—	—
I La Plata	14.0	94	3 22	- 4	6 10	+ 2	7.1	—
II	14.0	94	3 21	- 5	6 2	- 6	7.0	—
III	14.0	94	3 15	-11	6 0	- 8	7.1	—
I Sucre	18.2	31	14 10	- 9	17 23	-21	9.1	10.8
II	18.2	31	14 16	- 3	16 21	-83	9.0	11.6
III	18.2	31	4 25	+ 6	7 30	-14	9.3	11.7
I La Paz	19.5	20	4 34	- 1	8 15	+ 2	10.0	11.9
II	19.5	20	4 36	+ 1	—	—	9.7	12.6
III	19.5	20	e 4 45	+10	18 26	+13	9.8	12.3

Santiago gives P for II as L to shock I. La Paz I MN = +11.1m., II MN =  
 +10.9m., III MN = +11.2m.

Sept. 6d. 8h. 7m. 15s. Epicentre 20°-5S. 178°-5W. (as on 1924 Jan. 16d.).

A = -0.936, B = -0.025, C = -0.350; D = -0.026, E = +1.000.  
 G = +0.350, H = +0.009, K = -0.937.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	9.2	45	4 4	?S	(4 4)	- 4	4.8	5.8
Wellington	21.6	194	—	—	8 34	-23	e 10.2	16.6
Christchurch	24.2	196	—	—	9 51	+ 3	12.6	17.4
Riverview	29.9	235	e 6 33	+ 6	e 11 45	+13	e 14.2	18.2
Sydney	29.9	235	(7 45)	?PR <sub>1</sub>	(11 45)	+13	13.6	14.8
Adelaide	40.3	239	—	—	e 18 5	+234	e 20.8	27.8?
Honolulu	46.3	26	—	—	19 5	?SR <sub>1</sub>	e 33.2	—
Victoria	84.6	32	23 18	?S	(23 18)	+ 3	44.2	51.2
Irkutsk	98.6	325	—	—	e 24 49	[+32]	56.8	—
Toronto	110.4	49	—	—	e 26 15	-77	56.8	—
Ottawa	113.2	47	—	—	e 27 22	-34	e 57.8	—
Tashkent	119.8	307	(18 47)	[- 4]	(28 47)	- 1	(56.8)	(75.0)

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	128.8	325	e 21 49	?PR <sub>1</sub>	—	—	62.8	75.0
Baku	134.5	308	e 21 45?	?PR <sub>1</sub>	—	—	82.8	—
Kucino	135.5	331	—	—	—	—	81.2	—
Pulkovo	135.7	339	—	—	—	—	e 72.8	—
De Bilt	143.0	354	—	—	—	—	e 87.8	—
Kew	149.0	2	—	—	—	—	e 92.8	—
Strasbourg	151.5	351	—	—	—	—	e 92.8	—
Paris	151.7	359	—	—	—	—	e 88.8	—
Florence	155.3	343	19 45?	[-17]	84 45	?L	(84.8)	92.8
Granada	162.7	14	i 21 2	[+52]	i 24 55	?PR <sub>1</sub>	83.8	91.0
San Fernando N. 162.7	21	21	—	—	—	—	—	88.8

Additional readings and notes: Apia readings are given as for 7h. Riverview e = +7m.45s. = PR<sub>1</sub> + 28s., MN = +17.9m. Sydney. The readings have been decreased by 4min. Adelaide MN = +24.3m. Irkutsk e = +27m.18s. Tashkent i = +24m.9s. = PR<sub>2</sub> + 27s., +38m.27s., and +47m.48s., e = +35m.45s., MN = +70.3m., MZ = +70.5m.; the readings have all been decreased by 6min. Ekaterinburg e = +61m.20s., MZ = +75.8m., MN = +76.0m. Florence e = +78m.45s.

Sept. 6d. 15h. 9m. 40s. Epicentre 14°-0S. 166°-5E. (as on 1926 Jan. 5d.).

A = -0.943, B = +0.227, C = -0.242; D = +0.233, E = +0.972;  
G = +0.235, H = -0.056, K = -0.970.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	21.1	92	e 4 20?	-34	—	—	—	—
Riverview	24.2	212	e 3 28	-122	e 10 8	+20	e 11.8	13.0
Sydney	24.2	212	4 50	-40	8 50	-58	12.9	15.1
Wellington	28.2	167	6 30	+20	10 5	-58	11.8	13.5
Melbourne	30.5	215	1 7 38	+65	e 11 50	+7	e 14.4	17.3
Adelaide	32.7	226	e 6 59	+5	12 22	+3	14.8	21.2
Honolulu N.	49.6	45	—	—	15 20	-54	19.3	19.6
Taihoku E.	58.6	313	—	—	—	—	29.3	—
Batavia	59.0	271	(e 9 56)	-9	(i 17 39)	-31	—	—
Irkutsk	85.1	327	e 12 41	-8	e 23 23	+3	43.3	—
Victoria E.	87.9	39	23 36	?S	(23 36)	-15	40.3	52.6
Bombay	97.8	287	—	—	—	—	e 58.3	—
Tashkent	104.5	310	i 18 41	?PR <sub>1</sub>	e 24 20?	[-25]	e 50.3	61.4
Ekaterinburg	110.3	326	e 19 3	?PR <sub>1</sub>	e 28 51	?PS	36.3	62.7
Chicago E.	111.1	50	—	—	—	—	—	51.5
Toronto	117.0	46	—	—	—	—	67.7	—
Baku	119.2	310	e 21 38	?PR <sub>1</sub>	e 37 56	?SR <sub>1</sub>	e 61.8	—
Ottawa N.	119.3	44	—	—	e 27 44	-60	e 48.3	—
Fordham	121.5	50	—	—	—	—	e 65.5	—
Kucino	122.7	329	—	—	—	—	e 39.3	—
Leningrad	124.1	335	—	—	i 41 16	?L	58.8	75.8
Pulkovo	124.2	335	e 33 25	?L	e 42 20	?SR <sub>2</sub>	58.3	66.8
Makeyevka	125.7	320	e 32 58	?L	e 38 27	?SR <sub>1</sub>	60.3	69.0
Budapest	137.0	328	—	—	—	—	e 78.3	—
De Bilt	139.1	342	—	—	—	—	e 69.3	75.8
Uccle	140.5	342	—	—	—	—	e 66.3	—
Kew	141.1	347	—	—	—	—	e 73.3	—
Strasbourg	141.2	336	e 21 20?	?PR <sub>1</sub>	—	—	60.3	—
Paris	142.8	343	—	—	—	—	e 77.3	—
Florence	143.5	326	e 19 35	[-11]	—	—	62.3	84.3
Toledo N.E.	152.8	344	—	—	—	—	e 75.8	88.7
Granada	155.2	341	i 20 19	[+17]	—	—	76.3	81.0
San Fernando	156.6	345	—	—	—	—	83.3	93.8

Additional readings and notes: Apia reading is given for 14h. Riverview PS = +10m.19s. = SR<sub>1</sub> - 23s., MN = +14.6m. Wellington MN = +15.2m. Melbourne e = 15h.7m.42s. Adelaide MN = +22.4m. Honolulu LE = +19.2m., ME = +19.8m. Batavia; the readings have been increased by 8min. Tashkent e = +34m.50s., +35m.20s., and +45m.20s., MN = +61.9m., MZ = +62.1m. Ekaterinburg e = +34m.50s. = SR<sub>1</sub> + 4s., MN = +59.1m., MZ = +62.4m. Chicago eSR<sub>1</sub>E = +34m.8s. Ottawa eN1 = +35m.32s. Fordham eE = +53m.33s. and +55m.28s., eN = +57m.20s. and +61m.25s. Leningrad MZ = +76.0m. Pulkovo MZ = +66.5m. Makeyevka MN = +70.8m., MZ = +76.5m. De Bilt MN = +73.4m., MZ = +78.6m. Toledo MNW = +92.1m. Granada i = +24m.24s. = PR<sub>1</sub> + 14s., and +25m.40s. San Fernando MN = +97.3m.



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Sept. 6d. Readings also at 2h. (near Athens), 4h. (near La Paz), 11h. (Apia), 12h. (Matuyama), 13h. (Baku, Ekaterinburg, and near Tashkent), 15h. (Matuyama), 21h. (La Paz, La Plata, and Sucre), 22h. (Ekaterinburg and La Plata), 23h. (Zurich).

**Sept. 7d. 12h. 22m. 58s. Epicentre 5°S. 145°0E.**

A = -0.815, B = +0.571, C = -0.096; D = +0.574, E = +0.819;  
G = +0.078, H = -0.055, K = -0.995.

A depth of focus 0.020 has been assumed. See note at end.

	Corr. for Focus	$\Delta$	Az.	P.		O-C.		S.		O-C.		L. m.	M. m.
				m.	s.	s.	m.	s.	s.				
Amboina	-0.6	16.8	275	14	8	+13	i 7	20	+20				
Riverview	-1.3	28.9	169	e 6	2	-2	i 10	48	-4	e 14.1		17.0	
Sydney	-1.3	28.9	169	e 6	26	+22	10	50	-2			15.5	18.9
Adelaide	-1.4	30.0	190	i 6	12	-2	i 11	7	-3	i 13.5		20.7	
Manila	-1.4	31.2	312	e 6	27	+1	i 13	2	?SR <sub>1</sub>	i 20.0		25.5	
Melbourne	-1.5	32.3	181	e 3	44	-172	e 12	32	+44	i 17.4		20.6	
Malabar	-1.6	37.2	268	i 7	24	+6	i 13	8	+4				
Batavia	E. -1.7	37.9	270	i 7	21	-3						18.0	
Perth	-1.7	37.9	224	7	26	+2	13	12	-1	17.3		20.9	
Taihoku	-1.7	38.1	326	7	31	+6	13	18	+2	16.8		17.1	
Nagasaki	-1.7	40.9	342	7	49	+1	(14 24)		+30	14.4		17.8	
Hong Kong	-1.7	41.0	316	7	50	+1	13	58	+2	17.6			
Sumoto	-1.7	41.0	350	7	42	-7	(13 51)		-5	13.8		14.4	
Osaka	-1.7	41.2	350	7	54	+3	13	58	-1	19.8		20.4	
Kobe	-1.7	41.2	350	7	45	-6	(13 55)		-4	13.9		14.0	
Nagoya	-1.7	41.4	352	7	53	+1							
Hukuoka	N. -1.7	41.4	345	7	46	-6	(13 15)		-47	13.2			
Toyoaka	-1.8	42.2	350	7	53	-5	(e 14 5)		-8	e 14.1			
Zi-ka-wei	-1.8	43.1	332	i 8	2	-3	i 17	51	?SR <sub>1</sub>	23.6		25.8	
Wellington	-1.9	44.6	148	i 8	11	-5	i 14	39	-5	18.3		35.9	
Mizusawa	-1.9	44.8	357	8	15	-2	14	54	+7	19.7			
Christchurch	-1.9	45.1	152	(10 56)	?PR <sub>1</sub>	(15 2)			+11	15.0		34.2	
Phu-Lien	-1.9	45.9	307	i 8	29	+3	e 15	8	+6	22.5			
Otomari	-2.2	52.2	358	9	9	+2	(16 27)		+8	16.4			
Honolulu	E. -2.4	61.9	62	i 10	20	+11	i 18	42	+25	i 25.5		29.5	
	N. -2.4	61.9	62	e 10	25	+16	i 19	1	+44	i 25.5		26.1	
Calcutta	E. -2.4	62.0	300	10	44	+35	19	0	+42				
	N. -2.4	62.0	300	10	40	+31	18	58	+40				
Irkutsk	-2.5	67.3	335	i 10	57	+13	19	51	+28	36.0			
Kodai kanal	-2.6	69.1	283	11	50	+55	(20 2)		+18	20.0		26.0	
Hyderabad	-2.6	69.6	292	11	12	+14	20	18	+28	35.9		44.4	
Simla	E. -2.6	74.2	307	e 11	20	-7	e 20	56	+11			42.7	
	N. -2.6	74.2	307	e 11	44	+17	e 21	8	+23				
Bombay	-2.6	75.0	292	11	49	+17	21	19	+24	39.5		41.9	
Ekaterinburg	-2.8	91.5	328	i 13	9	0	i 24	4	+4			50.7	
Victoria	E. -2.8	95.2	42	13	18	-11	24	8	[+10]	43.1		51.9	
	N. -2.8	95.2	42	13	18	-11	24	33	-6	39.8		40.3	
Berkeley	E. -2.8	95.5	53	e 13	26	-5	e 26	26	+104	e 44.6			
Lick	-2.8	96.0	53	e 13	28	-5	e 26	2?	+75	e 43.9			
Baku	-2.8	97.4	311	i 17	41	?PR <sub>1</sub>	i 26	49	+107	49.0		53.2	
Piatigorsk	-2.9	102.4	315	e 14	26	+18	i 18	56	?PR <sub>1</sub>				
Kucino	-2.9	104.1	327				e 28	20	+133	e 53.4		64.3	
Tucson	E. -2.9	104.9	57	14	17	-3	e 25	52	-23	43.9			
Makeyevka	-2.9	105.4	320	e 14	14	-9	26	36	+16	51.0		67.6	
Pulkovo	-2.9	107.0	333	14	20	-10	25	21	[+24]	47.0		58.8	
Leningrad	-2.9	107.0	333	14	20	-10				43.0		61.0	
Upsala		112.7	335				e 29	24	+92	e 52.0		63.4	
Cape Town		116.0	228	25	42	?L	(25 42)		[+10]			62.0	
Budapest		117.7	322	e 18	2?	[-44]				e 59.0			
Athens		118.1	310	e 20	1	?PR <sub>1</sub>	29	52	+77	e 46.1		65.5	
Vienna		119.0	324	e 18	46	[-4]	i 20	18	?PR <sub>1</sub>				
Hamburg		119.7	331	e 19	2?	[+11]	e 20	18	?PR <sub>1</sub>	e 58.0		62.0	
Graz		120.1	323	e 19	39	[+47]	e 23	49	-1	53.0		62.7	
Zagreb		120.4	321	19	2?	[+9]	e 23	49	-3	e 42.0			
Cheb		120.4	327	e 20	18	?PR <sub>1</sub>	e 30	12	+80			72.0	
Chicago	E. -	121.0	43				27	30	-87	50.0		57.1	
Dyce		122.2	340	e 20	30	?PR <sub>1</sub>	e 30	29	+83	58.0		72.3	

Continued on next page.

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	Corr. for Focus	$\Delta$	Az.	P.		O-C.		S.	O-C.	L.	M.
				m.	s.	s.	m. s.				
Innsbruck	—	122.4	325	e 19	38	[+39]	e 28	58	—	e 60.0	75.0
Hohenheim	E.	122.8	327	e 17	38	[-82]	e 30	38	?	e 59.4	69.4
	N.	122.8	327	e 21	22	?PR <sub>1</sub>	e 36	44	?SR <sub>1</sub>	e 64.3	67.6
Venice	—	122.8	323	e 18	44	[-16]	e 33	22	?	e 49.0	71.4
Loyola	N.	122.8	57	e 18	57	[-3]	i 20	42	?PR <sub>1</sub>	e 55.0	60.9
De Bilt	—	122.9	331	e 18	59	[-2]	i 32	8	?	54.5	—
Ann Arbor	—	123.4	40	i 20	32	?PR <sub>1</sub>	e 30	47	?	56.0	69.0
Pompeii	—	123.5	317	e 19	49	[+47]	—	—	—	—	—
Edinburgh	—	123.6	338	e 21	2?	?PR <sub>1</sub>	e 30	2?	?	—	—
Naples	—	123.7	317	e 20	2?	?PR <sub>1</sub>	i 20	45	?PR <sub>1</sub>	58.0	76.4
Strasbourg	—	123.8	327	e 19	1	[-2]	—	—	—	—	—
Zurich	—	124.0	325	e 19	1	[-2]	—	—	—	—	—
Uccle	—	124.1	331	20	50	?PR <sub>1</sub>	e 30	27	?	e 54.0	61.4
Rocca di Papa	—	124.3	319	19	2	[-2]	e 32	12	?	e 64.6	74.0
Florence	—	124.3	320	19	12	[+8]	32	32	?	61.0	78.5
Stonyhurst	—	124.9	336	20	42	?PR <sub>1</sub>	—	—	—	60.0	65.5
Bidston	—	125.5	336	20	56	?PR <sub>1</sub>	—	—	—	52.5	65.3
Toronto	N.	125.5	38	i 20	46	?PR <sub>1</sub>	i 20	59	?PR <sub>1</sub>	59.1	64.0
Kew	—	125.8	335	e 19	3	[-5]	32	4	?	48.6	69.0
Moncalieri	—	125.8	323	e 18	55	[-13]	—	—	—	60.0	76.0
Oxford	—	126.0	335	e 21	0	?PR <sub>1</sub>	—	—	—	65.0	76.0
Besançon	—	126.1	327	—	—	—	—	—	—	65.0	76.0
Paris	—	126.3	330	e 22	6	?	i 24	2	?PR <sub>2</sub>	60.0	65.0
Ottawa	N.	126.7	34	i 20	59	?PR <sub>1</sub>	31	6	?	61.0	—
Ithaca	—	127.9	38	i 21	5	?PR <sub>1</sub>	e 37	55	?SR <sub>1</sub>	58.3	65.4
Fordham	—	130.5	39	i 21	22	?PR <sub>1</sub>	31	2	?	e 43.8	48.7
Barcelona	—	131.2	322	e 21	12	?PR <sub>1</sub>	—	—	?	e 57.0	71.7
Tortosa	N.	132.5	323	e 19	55	[+31]	i 22	47	?PR <sub>1</sub>	e 48.0	80.0
Algiers	—	133.2	318	e 19	19	[-7]	—	—	—	63.6	—
La Plata	—	134.2	151	i 19	23	[-5]	—	—	—	—	—
Alicante	—	134.7	321	19	7	[-22]	—	—	—	—	—
Toledo	—	135.8	325	e 19	47	[+15]	e 31	53	?	e 47.5	74.6
Almeria	—	136.7	321	e 19	18	[-15]	e 30	37	?	e 51.8	76.2
Granada	—	137.3	323	i 19	13	[-22]	—	—	—	70.0	85.2
Malaga	—	138.1	323	20	16	[+40]	30	44	?	—	—
Rio Tinto	—	138.7	325	22	2?	?PR <sub>1</sub>	33	21	?	69.0	75.0
San Fernando	—	139.4	323	19	24	[-14]	33	21	?	77.9	100.4
La Paz	—	140.5	124	i 19	56	[+16]	33	12	?	77.3	89.3
Sucre	—	141.4	130	19	32	[-10]	—	—	—	—	—

Additional readings and notes: Riverview eP = +7m.13s., iS = +11m.42s. = SR<sub>1</sub>-24s., and +13m.17s., MN = +18.8m., MZ = +19.6m.; T<sub>0</sub> = 12h.22m.46s. Sydney SR<sub>2</sub> = +13m.32s. Adelaide iPR<sub>1</sub> = +7m.2s., iSR<sub>1</sub> = +12m.28s. Manila PR<sub>2</sub> = +8m.40s., PS = +12m.22s., SR<sub>1</sub> = +16m.17s., SR<sub>2</sub> = +17m.47s. Melbourne i = +15m.44s. Batavia PZ = +7m.28s. Perth PR<sub>1</sub> = +9m.9s. = PR<sub>2</sub> + 1s.; all readings are given for 8h. Taihoku SN = +13m.19s. Nagasaki S = +9m.56s. = PR<sub>1</sub> + 44s. Sumoto S = +10m.32s. = PR<sub>2</sub> + 42s. Osaka MN = +21.0m. Toyooka ePR<sub>1</sub> = +8m.47s., eS = +10m.36s. = PR<sub>2</sub> + 39s. Zi-ka-wei PR<sub>1</sub> = +8m.36s., PR<sub>2</sub> = +10m.55s., PR<sub>3</sub> = +12m.54s., SR<sub>2</sub> = +19m.22s., PS = +20m.46s. Wellington PR<sub>2</sub> = +9m.18s., SR<sub>1</sub> = +17m.27s., MN = +26.0m. Christchurch gives PR<sub>2</sub> as S? Ootomari S = +11m.52s. = PR<sub>2</sub> - 10s. Honolulu P<sub>2</sub>PN = +10m.42s., ePR<sub>1</sub>E = +13m.2s., P<sub>0</sub>S = +14m.30s. = PR<sub>2</sub> + 0s., eS<sub>0</sub>SE? = +20m.32s., S<sub>0</sub>SN? = +20m.54s., eSR<sub>1</sub>N = +22m.32s., SR<sub>1</sub>E = +23m.2s., SR<sub>2</sub>E = +24m.2s.; T<sub>0</sub> = 12h.22m.37s. and 12h.22m.42s. Honolulu is complicated by the allowance for focal depth. Irkutsk SR<sub>1</sub> = +24m.29s., SR<sub>2</sub> = +28m.1s. = SR<sub>1</sub> + 1s. Ekaterinburg PR<sub>2</sub> = +16m.34s., i = +23m.36s. = [S] + 17s., e = +25m.2s. = PS + 21s., MN = +47.8m., MZ = +57.1m. Berkeley eE = +6m.26s., +17m.14s. = PR<sub>1</sub> - 11s., and +32m.8s. Lick eN = +13m.32s., eSE = +17m.16s. = PR<sub>1</sub> - 12s., eSNZ = +17m.19s. = PR<sub>1</sub> - 9s. Baku MN = +57.6m., MZ = +65.4m. Kucino e = +28m.51s., +35m.14s., +37m.42s. = SR<sub>2</sub> - 8s., and +43m.14s., i = +36m.18s., MN = +65.0m. Tucson PR<sub>1</sub>E = +18m.34s., eE = +19m.48s., and +26m.35s., PSE = +28m.2s., PPSSE = +28m.44s., eSR<sub>1</sub>E = +33m.8s.; T<sub>0</sub> = 12h.23m.26s. and 12h.23m.33s. Makeyevka PR<sub>1</sub> = +18m.34s., PS = +28m.6s., SR<sub>1</sub> = +33m.36s., MN = +63.2m. Fulkovo PR<sub>1</sub> = +18m.31s., PR<sub>2</sub> = +21m.32s., iPS = +27m.59s., iPPS = +28m.35s., SR<sub>1</sub> = +33m.44s., SR<sub>2</sub> = +38m.38s., SR<sub>3</sub> = +41m.50s., MN = +57.5m., MZ = +63.4m. Leningrad PR<sub>1</sub> = +18m.46s., PR<sub>2</sub> = +21m.36s., PS = +28m.8s., iPPS = +28m.36s., SR<sub>1</sub> = +33m.52s., MN = +60.9m., MZ = +79.4m. Upsala MN = +62.6m. Hamburg MNZ = +70.0m. Zagreb e = +20m.54s. = PR<sub>1</sub> + 28s., and

Continued on next page.

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+36m.2s. ? = SR<sub>1</sub> - 44s. Chicago iPR<sub>1</sub>E = +20m.14s., SPSE = +26m.16s. = [S] + 28s., PSE = +30m.2s., PPSE = +31m.35s., eSR<sub>1</sub>E = +36m.32s., eSR<sub>2</sub>E = +41m.2s. Hohenheim eE = +20m.38s. = PR<sub>1</sub> - 4s. De Bilt MN = +67.0m., MZ = +71.9m. Ann Arbor ePR<sub>2</sub> = +27m.14s., eSR<sub>2</sub>? = +43m.8s., eLN = +54.2m. Strasbourg e = +23m.19s., +23m.22s., and +36m.2s.?, MN = +59.3m., MZ = +76.3m. Uccle e = +37m.50s. = SR<sub>1</sub> + 13s., MN = +72.2m. Rocca di Papa e = +16m.46s. and +16m.53s. Toronto eE = +26m.19s. = [S] + 19s., +30m.30s., and +38m.2s. = SR<sub>1</sub> + 7s., eN = +30m.46s., and +38m.12s. Kew MN = +70.4m. Moncalieri i = +21m.10s. = PR<sub>1</sub> + 8s. Ottawa PR<sub>1</sub> = 26m.38s. = PR<sub>2</sub> - 17s., PPSN = +38m.24s., SR<sub>2</sub>N? = +49m.32s., ME = +115.0m. Fordham PR<sub>1</sub>E = +24m.7s., PR<sub>2</sub>N = +27m.12s., SR<sub>1</sub>N = +34m.57s., SR<sub>2</sub> = +38m.47s., LN = +59.0m., MN = +65.0m. Toledo PR<sub>1</sub> = +22m.53s., MNW = +72.1m. Almeria PR<sub>1</sub> = +22m.20s., PR<sub>2</sub> = +25m.22s., MN = +71.3m. Granada i = +19m.24s. and +22m.16s. = PR<sub>1</sub> - 1s., PR<sub>2</sub> = +23m.4s., PR<sub>3</sub> = +25m.48s., SR<sub>1</sub> = +37m.25s. San Fernando PR<sub>1</sub> = +22m.44s., MN = +80.0m. La Paz iPR<sub>1</sub> = +23m.22s., iPR<sub>2</sub> = +26m.34s. Sucre i = +19m.50s., PR<sub>1</sub> = +23m.8s., PR<sub>2</sub> = +27m.32s., SR<sub>1</sub> = +37m.30s., SR<sub>2</sub> = +41m.42s. = SR<sub>1</sub> + 34s.

NOTE ON THE DEEP FOCUS ASSUMPTION.

Rearranging the satisfactory observations in Azimuth we get the following corrections to  $\Delta$ :  $\delta \Delta_1$  without any correction for deep focus,  $\delta \Delta_2$  with the correction adopted.

Az.	$\delta \Delta_1$	Corr.	$\delta \Delta_2$	Az.	$\delta \Delta_1$	Corr.	$\delta \Delta_2$
62	0.0	-2.4	+2.4	313	-3.6	-2.7	-0.9
148	-2.5	-1.9	-0.6	316	-1.6	-1.7	+0.1
169	-1.5	-1.3	-0.2	326	-1.3	-1.7	+0.4
190	-0.5	-1.4	+0.9	328	-2.5	-2.8	+0.3
224	-1.6	-1.7	+0.1	332	-2.2	-1.8	-0.4
268	-1.1	-1.6	+0.5	335	-0.4	-2.5	+2.1
270	-2.0	-1.7	-0.3	342	-1.6	-1.7	+0.1
275	+0.4	-0.6	+1.0	345	-2.4	-1.7	-0.7
292	-0.3	-2.6	+2.3	350	-2.3	-1.7	-0.6
300	+1.6	-2.4	+4.0	350	-2.4	-1.8	-0.6
306	-4.3	-2.6	-1.7	350	-1.5	-1.7	+0.2
307	-1.5	-1.9	+0.4	352	-1.6	-1.7	+0.1
307	-2.0	-2.6	+0.6	357	-1.8	-1.9	+0.1
312	-1.3	-1.4	+0.1	358	-1.9	-2.2	+0.3

The residuals  $\delta \Delta_2$  suggest a slight change of (say) 0°.7 to the South. Perhaps 6°.0S. 145°.0E. would have been a better position for the epicentre.

Sept. 7d. Readings also at 0h. (Dehra Dun), 3h. and 4h. (Nagasaki), 9h. (Nagasaki and near Sumoto), 12h. (Strasbourg and Zurich), 13h. (Nagoya, Tokyo, Sucre, and Zagreb), 14h. (Tashkent and near Toyooka (2)), 15h. (Manila), 19h. (Sucre, Ottawa, Ekaterinburg, and Tashkent), 20h. (Granada and Riverview), 23h. (La Paz and near Sucre).

Sept. 8d. 15h. 49m. 30s. Epicentre 23°.0N. 95°.0E. (as on 1924 Sept. 2d.).

A = -.080, B = +.917, C = +.391; D = +.996, E = +.087; G = -.034, H = +.389, K = -.921.

Rough. Some of the observations would be better suited by the epicentre 30°.0N. 99°.0E. of 1923 Oct. 20, with an increase of 72 sec. in T<sub>a</sub>. But this would not suit Phu-Lien or Manila.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. m.	m.
Phu-Lien	11.0	99	e 3 3	+19	e 4 35	-19	—	—
Hong Kong	17.7	88	—	—	—	—	—	8.3
Bombay	21.1	263	10 13	!L	—	—	(10.2)	15.8
Taihoku	24.3	80	—	—	e 10 0	+10	—	—
Zi-ka-wei	24.8	65	—	—	e 9 20	-39	—	—
Manila	25.9	104	—	—	e 9 55	-25	—	—
Tashkent	28.2	316	e 3 53	?	e 11 30	+27	e 17.5	21.9
Irkutsk	30.2	11	e 7 43	+73	e 11 20	-17	16.5	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	41.6	306	—	—	e 15 13	+44	27.5	—
Ekaterinburg	42.0	332	e 8 4	- 7	e 14 58	+23	18.5	29.0
Makeyevka	51.2	316	—	—	—	—	e 31.5	—
Pulkovo	57.6	327	—	—	—	—	e 31.2	—
Leningrad	57.7	327	—	—	—	—	30.5	—
De Bilt	71.9	320	—	—	—	—	e 41.5	—
Uccle	72.7	319	—	—	—	—	—	41.5
Kew	75.3	321	—	—	—	—	42.5	—
Granada	82.7	308	—	—	—	—	e 10.5	13.2

Additional readings: Tashkent MNZ = +19.8m. Baku e = +18m.29s. = SR<sub>1</sub>+14s. Ekaterinburg e = +18m.0s., MN = +26.3m., MZ = +28.0m. Makeyevka L = +36.5m.

Sept. 8d. Readings also at 0h., 2h., 3h. (3), 4h., 6h., and 7h. (near Nagasaki), 9h. (Ekaterinburg, Manila, Tashkent, Zi-ka-wei, and near Amboina), 10h. (Tucson, Tacubaya, and Vera Cruz), 11h. (Oaxaca), 13h. (Ekaterinburg, Hong Kong, Manila, Zi-ka-wei, Phu-Lien, and near Taihoku), 14h. (Pulkovo, De Bilt, and Uccle), 16h. (Ekaterinburg), 17h. (near Amboina), 18h. (Tokyo and near Manila), 19h. (Leningrad).

Sept. 9d. 1h. 33m. 5s. Epicentre 28°·0N. 127°·0E. (as on 1924 May 23d.).

A = -·531, B = +·705, C = +·470; D = +·799, E = +·602;  
G = -·283, H = +·375, K = -·883.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	5.7	240	1 30	+ 2	(2 30)	- 6	2.5	2.6
Zi-ka-wei	5.8	305	e 2 1	+31	—	—	—	—
Hong Kong	12.9	247	—	—	—	—	—	11.2
Manila	14.6	204	e 4 11	+37	—	—	10.6	—
Phu-Lien	19.9	253	—	—	—	—	9.9	—
Irkutsk	29.5	331	e 6 22	- 1	—	—	—	—
Tashkent	48.4	302	e 8 56	0	e 16 46	+47	e 23.7	32.3
Ekaterinburg	54.0	323	19 39	+ 6	e 17 21	+12	22.9	35.3
Baku	63.0	304	—	—	—	—	e 36.7	—
Makeyevka	68.9	315	—	—	—	—	e 35.9	47.4
Pulkovo	69.3	329	—	—	—	—	e 36.9	45.0
De Bilt	85.2	328	—	—	—	—	e 46.9	55.8
Edinburgh	86.0	335	—	—	—	—	—	58.9
Strasbourg	86.2	325	—	—	—	—	e 46.9	—
Uccle	86.4	328	—	—	—	—	e 45.9	—
Kew	88.0	330	—	—	—	—	e 47.9	—
Moncalieri	88.4	322	—	—	—	—	e 43.1	—
Paris	88.6	327	—	—	—	—	e 59.9	—
Granada	100.0	323	—	—	—	—	e 58.1	62.4
San Fernando E.	102.0	324	—	—	—	—	—	66.9

Additional readings: Tashkent P = +5m.59s., e = +6m.16s., the P and S entered are given as simply e. Ekaterinburg e = +21m.15s. = SR<sub>1</sub>-9s., MN = +31.3m., MZ = +36.2m. Makeyevka L = +41.9m., MN = +49.3m. Pulkovo MZ = +45.1m., MN = +46.0m. De Bilt MN = +56.0m. Strasbourg e = +53m.55s., L = +55.9m. Granada L = +60.6m. San Fernando MN = +67.4m.

Sept. 9d. 3h. 51m. 12s. Epicentre 45°·6N. 10°·2E. (as on 1918 July 19d.).

A = +·689, B = +·124, C = +·715.

	$\Delta$	P.	O-C.	S.	O-C.	L.
	°	m. s.	s.	m. s.	s.	m.
Chur	1.3	e 0 20	0	0 37	+1	—
Zurich	2.1	10 34	+1	11 0	+2	—
Strasbourg	3.4	—	—	e 1 33	-1	e 1.8

Chur gives epicentre 45°55'N. 10°5'E.; the above is the nearest previously adopted origin.

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Sept. 9d. 6h. 51m. 40s. Epicentre 35°·0S, 75°·0W. (as on Sept. 6d.).

A = +·212, B = -·791, C = -·574 ; D = -·966, E = -·259 ;  
G = -·148, H = +·554, K = -·819.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	14·0	94	3 30	+ 4	6 9	+ 1	7·2	—
Sucre	18·2	31	4 6	-13	e 7 18	-26	9·2	10·4
La Paz	19·5	20	4 34	- 1	e 8 23	+10	10·3	12·8
Ekaterinburg	143·2	40	e 53 33	?SR <sub>a</sub>	—	—	e 70·3	—
Tashkent	151·4	67	—	—	e 56 20?	?SR <sub>a</sub>	e 71·3	80·7

Additional readings : Sucre i = +4m.26s. ; T<sub>0</sub> = 6h.51m.42s. Ekaterinburg  
e = +56m.0s. and +64m.48s.

Sept. 9d. 17h. 31m. 46s. (i) }  
17h. 33m. 27s. (ii) } Epicentre 42°·0S, 130°·0E. (see Sept. 19d. 20h.).  
17h. 38m. 10s. (iii) }

A = -·478, B = +·569, C = -·669 ; D = +·766, E = +·643 ;  
G = +·430, H = -·513, K = -·743.

The observations make it clear that there was a series of shocks near the position given ; but neither on this occasion nor on Sept. 19d. 20h. (which was discussed together with it) do they allow a very precise determination of position. The residuals for P in round brackets refer to PR<sub>a</sub>.

	$\Delta$	Az.	P.	O-C.	L.
	°	°	m. s.	s.	m.
III Riverview	18·5	72	i 4 14	- 9	e 6·9
I Irkutsk	96·9	345	16 53	(-60)	—
III	96·9	345	17 7	(-46)	—
I Tashkent	99·7	318	i 19 42	(+90)	—
II	99·7	318	i 19 32	(+80)	—
I Baku	109·6	307	19 12	(- 4)	—
II	109·6	307	20 5	(+49)	—
III	109·6	307	18 58	(-18)	—
I Ekaterinburg	114·6	325	18 51	(+15)	31·2
II	114·6	325	18 54	(+18)	—
III	114·6	325	18 50	(+14)	—
I Vienna z.	134·2	301	19 29	(+ 1)	—
I Rocca di Papa	134·4	291	e 19 50	(+21)	—
II	134·4	291	18 43	(-46)	—
I Strasbourg	139·8	300	19 14	(-25)	—
I De Bilt z.	142·1	305	i 19 41	(- 2)	—
II z.	142·1	305	e 19 49	(+ 6)	—
I Uccle	142·4	302	e 19 37	(- 7)	—
II Alicante	142·6	280	19 33	(-11)	—
I Kew z.	145·4	303	e 19 41	(- 8)	—

Additional readings and notes : Irkutsk e = 17h.59m. Tashkent also  
e = 17h.52m.27s., i = 17h.52m.50s., 17h.54m.4s., e = 17h.55m.16s.,  
17h.56m.34s., 17h.57m.8s., 17h.59m.14s., Baku e = 18h.8m.13s.,  
Ekaterinburg e = 18h.1m.57s., L may be [S] for No. III (tabular 18h. 3-6m.).  
Granada ( $\Delta = 144^{\circ}4$ ) records i = 17h.55m.19s., i = 17h.56m.26s., M =  
18h.0m.50s.

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Sept. 9d. 18h. 30m. 20s. Epicentre 58°-5S. 153°-0E. (as on 1926 Aug. 15d.).

A = -·466, B = +·237, C = -·853 ; D = +·454, E = +·891 ;  
G = +·760, H = -·387, K = -·522.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	19·2	48	—	—	—	—	7·5	10·5
Melbourne	21·4	342	e 6 4	+66	e 9 4	+11	—	11·7
Wellington	22·0	48	4 57	- 8	8 47	-18	10·8	13·9
Riverview	24·7	356	e 5 9	-26	e 9 36	-21	e 10·4	12·9
Sydney	24·7	356	—	—	9 40	-17	10·5	11·0
Adelaide	25·4	332	5 54 †	+12	i 10 35	+24	12·4	14·0
Sucre	96·3	142	(16 59)	‡PR <sub>1</sub>	(23 59)	[- 5]	29·5	—
Bombay	101·0	288	—	—	—	—	e 46·7	—
Irkutsk	117·6	328	e 18 40 †	[- 6]	—	—	e 54·7	—
Tashkent	121·3	298	e 21 15	‡PR <sub>1</sub>	—	—	e 52·1	64·1
Loyola	N. 129·0	93	—	—	—	—	e 61·7	—
Baku	130·0	284	e 21 26	‡PR <sub>1</sub>	e 39 48	‡SR <sub>1</sub>	59·7	—
Ekaterinburg	136·5	307	e 19 8	[-25]	—	—	33·7	—
Toronto	145·0	89	—	—	—	—	82·9	—
Ottawa	N. 148·1	90	—	—	—	—	e 68·7	—
Granada	153·8	226	i 19 53	[- 8]	—	—	e 78·7	84·4
San Fernando	154·1	221	—	—	—	—	—	87·7
Tortosa	N. 155·2	236	—	—	—	—	e 79·7	89·1
Strasbourg	157·5	259	—	—	—	—	31·7	—
Paris	160·2	254	—	—	—	—	e 89·7	—
Uccle	160·5	260	—	—	—	—	e 77·7	—
De Bilt	160·8	264	e 19 48	[-21]	e 35 40 †	‡	e 75·7	—
Kew	163·3	257	—	—	—	—	e 83·7	—
Edinburgh	166·9	269	—	—	—	—	95·7	—

Additional readings and notes: Melbourne readings are given simply as e. Riverview MN = +11·7m. Adelaide MN = +14·4m. Sucre i = +30m.49s. = SR<sub>1</sub> - 62s.; the readings have been increased by 7min. Tashkent i = +21m.50s., e = +34m.54s., and +38m.24s., MZ = +62·5m. Ekaterinburg e = +20m.6s., +22m.57s. = PR<sub>1</sub> + 46s., and +31m.29s. = S - 15s. San Fernando MN = +87·2m.

Sept. 9d. Readings also at 1h. (Leningrad, near Nagoya, and Toyooka), 3h. (near Kobe), 4h. (Dyce, Tashkent, and Venice), 6h. (Ekaterinburg), 7h. (Tashkent), 11h. (Baku, Irkutsk, Bombay, Phu-Lien, Hong Kong, and Ekaterinburg), 14h. (Tashkent), 16h. (Innsbruck), 23h. (Moncalieri and Tacubaya).

Sept. 10d. 8h. 26m. 38s. Epicentre 44°-0S. 80°-5W.

A = +·119, B = -·709, C = -·695 ; D = -·986, E = -·165 ;  
G = -·115, H = +·685, K = -·719.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	19·6	70	4 40	+ 4	8 9	- 6	10·5	—
Sucre	28·1	32	6 8	- 1	e 10 51	-10	13·9	16·7
La Paz	29·4	25	6 23	+ 1	e 11 36	+12	14·7	20·0
Toronto	E. 87·6	2	—	—	—	—	37·4	—
Ottawa	N. 89·5	4	—	—	e 23 37	[+12]	e 39·4	—
Paris	117·7	47	—	—	—	—	e 63·4	—
Kew	117·9	43	—	—	—	—	e 59·4	—
Uccle	119·9	46	—	—	—	—	e 53·4	—
Strasbourg	120·4	50	—	—	—	—	e 63·4	—
De Bilt	121·0	45	—	—	—	—	e 53·4	66·0
Baku	143·6	78	e 20 30	[+44]	—	—	e 82·4	—
Ekaterinburg	152·6	48	e 20 1	[+ 1]	—	—	43·4	—
Tashkent	157·7	87	e 21 14	[+ 8]	—	—	e 68·4	88·0

Additional readings: Sucre i = +6m.15s.; T. = 8h.26m.48s. Ottawa eN = +30m.57s. = SR<sub>1</sub> + 34s. Ekaterinburg e = +24m.32s. = PR<sub>1</sub> + 38s., +31m.28s., and +40m.46s. Tashkent e = +22m.42s., +27m.38s., +30m.6s., +32m.40s., +36m.28s., +54m.28s., and +64m.22s., MN = +88·5m., MZ = +88·7m.

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**Sept. 10d. 10h. 34m. 21s. Epicentre 9°0S. 111°0E.**

(as on 1918 Sept. 4d. and near 9°S. 111°2E., the position given by Batavia).

A = -·354, B = +·922, C = -·156; D = +·934, E = +·358;  
G = +·056, H = -·146, K = -·988.

A Focal depth of +·013 below normal has been used.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
				m.	s.	s.	m.		s.	m.		
Malabar	+0.1	3.8	298	i 1	1	0	—	—	—	—	—	—
Batavia	0.0	5.0	304	i 1	17	0	i 2	34	+17	—	—	—
Amboina	-0.5	17.9	74	i 3	23	-47	—	—	—	i 9.1	—	—
Perth	-0.6	23.4	169	5	9	-6	9	19	-2	—	—	14.8
Manila	-0.8	25.6	23	i 5	39	+3	i 10	39	+40	i 13.3	—	20.3
Phu-Lien	-0.9	30.1	351	e 6	14	-6	11	11	-9	13.7	—	21.7
Hong Kong	-0.9	31.5	6	6	25	-9	11	29	-15	15.5	—	22.7
Colombo	-1.0	34.9	296	7	9	+5	12	39	0	20.9	—	23.1
Taihoku	-1.0	35.5	16	7	6	-3	12	43	-5	15.3	—	21.0
Adelaide	-1.0	36.2	140	i 7	2?	-13	i 12	29	-29	15.1	—	21.1
Kodaikanal	-1.0	38.4	299	7	9	-24	(13	3)	-25	13.1	—	21.9
Calcutta	E. -1.1	38.5	325	7	31	-2	13	22	-8	19.8	—	—
	N. -1.1	38.5	325	7	33	0	13	51	+21	20.6	—	30.3
Zi-ka-wei	-1.1	41.4	14	i 7	49	-8	i 14	2	-9	—	—	31.0
Hyderabad	-1.1	41.6	310	7	49	-10	14	2	-12	21.0	—	27.5
Melbourne	-1.1	42.0	139	i 7	9	-53	i 15	9	+49	—	—	26.0
Sydney	-1.2	44.4	130	8	15	-5	14	51	0	23.9	—	24.9
Riverview	-1.2	44.4	130	e 8	13	-7	e 14	51	0	e 21.9	—	27.4
Hukuoka	N. -1.2	46.4	22	8	29	-5	e 15	14	-4	e 19.3	—	—
Bombay	-1.2	46.8	308	8	33	-4	15	13	-9	23.9	—	26.2
Sumoto	-1.3	48.9	27	8	51	0	(15	46)	-3	15.8	—	16.6
Kobe	-1.3	49.3	26	8	52	-2	(15	52)	-2	15.9	—	16.3
Osaka	-1.3	49.4	27	9	5	+10	18	7	+12	24.4	—	28.6
Toyooka	-1.3	49.9	26	8	54	-4	(15	12)	-49	15.2	—	23.5
Nagoya	-1.3	50.5	27	e 8	54	-7	—	—	—	—	—	—
Dehra Dun	-1.3	50.5	323	5	54	-187	13	9	-180	20.7	—	26.3
Simla	N. -1.3	51.6	323	8	57	-12	16	9	-14	27.5	—	30.3
	E. -1.3	51.6	323	9	3	-6	16	15	-8	28.7	—	30.3
Mizusawa	-1.4	55.6	29	9	38	+4	17	17	+6	23.8	—	—
Irkutsk	-1.5	61.5	356	10	18	+6	18	42	+19	32.7	—	—
Ootomari	-1.5	62.4	24	10	24	+6	18	45	+10	23.7	—	37.1
Tashkent	-1.6	63.2	326	i 11	26	+83	i 17	29	-74	—	—	43.7
Christchurch	-1.6	63.4	135	—	—	—	19	39	+53	33.1	—	53.1
Wellington	E. -1.6	64.5	132	e 10	38	+7	i 19	21	+21	30.3	—	36.9
	N. -1.6	64.5	132	—	—	—	i 19	19	+19	30.0	—	34.7
Baku	-1.7	74.8	317	i 11	41	+4	i 21	20	+17	—	—	47.2
Apia	-1.7	75.6	101	(12	7)	+26	(17	38)	? PR <sub>2</sub>	40.7	—	—
Ekaterinburg	-1.7	77.6	335	i 11	58	+4	i 21	51	+15	23.7	—	49.4
Piatigorsk	-1.7	80.9	318	e 13	14	+60	23	22	+68	—	—	37.7
Makeyevka	-1.8	85.6	320	12	37	-4	23	4	-3	38.7	—	59.5
Helwan	-1.8	85.7	301	i 12	42	+1	i 23	9	+1	—	—	50.2
Cape Town	-1.8	87.1	236	12	51	+1	23	21	-1	—	—	44.3
Pulkovo	-1.8	93.1	330	e 13	11	-13	24	33	+6	40.7	—	57.1
Leningrad	-1.8	93.2	330	13	12	-11	i 24	33	+5	43.7	—	57.0
Athens	-1.8	93.3	308	e 13	9	-15	24	13	-16	e 44.7	—	58.1
Honolulu	E. -1.8	94.2	69	13	27	-2	i 24	19	-20	e 39.9	—	47.1
	N. -1.8	94.2	69	e 13	57	+26	i 24	37	-2	40.1	—	65.5
Lemberg	E. -1.8	94.9	320	e 13	27	-6	e 30	3	? SR <sub>1</sub>	55.7	—	62.1
	N. -1.8	94.9	320	e 12	57	-36	e 29	57	? SR <sub>2</sub>	—	—	61.5
Belgrade	E. -1.8	96.7	315	e 24	16	? [S]	(e 24	16)	[+10]	e 55.6	—	63.8
	N. -1.8	96.7	315	e 23	52	? [S]	(e 23	52)	[-14]	e 58.0	—	63.7
	N. -1.8	97.9	317	14	9	+20	24	23	[+11]	e 30.7	—	62.2
Budapest	-1.9	99.4	330	e 13	53	-4	i 25	27	-4	e 48.7	—	58.9
Uppsala	-1.9	99.8	319	e 14	2	+3	24	20	+3	e 48.7	—	63.7
Vienna	-1.9	99.9	315	e 13	49	-11	e 24	28	+4	34.7	—	69.4
Zagreb	-1.9	100.3	317	i 14	9	+7	25	44	+9	45.7	—	66.9
Graz	-1.9	100.7	311	e 14	32	+28	e 23	52	[-35]	55.7	—	—
Pompeii	-2.0	102.2	311	e 13	58	-16	24	38	+4	e 45.7	—	91.1
Rocca di Papa	-2.0	102.4	320	e 14	36	+23	e 24	41	[+6]	e 48.7	—	63.7
Cheb	-2.0	102.5	315	10	39?	—	—	—	—	—	—	—
Venice	-2.0	103.1	317	e 24	33	? S	(e 24	33)	[-5]	e 54.7	—	63.7
Innsbruck	-2.0	103.2	313	14	4	-12	17	39	? PR <sub>1</sub>	51.7	—	65.7
Florence	-2.0	103.2	313	14	4	-12	17	39	? PR <sub>1</sub>	51.7	—	65.7

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	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hamburg	-2.0	103.7	324	e 17 11	? PR <sub>1</sub>	i 24 47	[+ 6]	e 52.7	68.9
Ravensburg	-2.0	104.3	318	e 17 17	? PR <sub>1</sub>	e 28 31	? PS	e 39.8	73.4
Chur	-2.0	104.4	317	e 14 5	-17	i 24 42	[- 3]	—	—
Hohenheim	-2.0	104.5	319	e 16 59	+156	e 28 57	+157	e 38.6	64.4
Zurich	-2.0	105.0	316	e 14 18	- 7	24 48	[+ 1]	—	—
Strasbourg	-2.1	105.5	319	14 18	- 9	26 27	- 1	52.7	71.2
Bergen	-2.1	105.5	330	—	—	—	—	e 45.7	—
Moncalieri	-2.1	105.7	315	14 9	-19	27 29	+60	48.6	83.5
Besançon	-2.1	106.7	317	e 17 45	[-18]	—	—	53.7	—
De Bilt	-2.1	106.8	322	14 22	-11	e 25 3	[+ 7]	e 50.7	69.5
Uccle	-2.1	107.5	321	e 14 45	+ 9	i 25 4	[+ 5]	e 48.7	61.1
Paris	-2.1	108.9	319	e 18 15	[+ 4]	e 25 11	+ 6	58.7	67.7
Algiers	-2.1	109.7	306	e 18 23	[+ 9]	i 27 3	- 3	e 53.7	65.7
Dyce	-2.1	109.9	328	—	—	—	—	53.7	72.1
Barcelona	—	110.0	310	e 17 41	[-41]	—	—	e 54.9	70.3
Kew	—	110.2	321	e 14 36	-22	e 24 50	? PR <sub>2</sub>	48.7	60.9
Oxford	—	110.7	321	19 2	PR <sub>2</sub>	—	—	48.7	82.9
Edinburgh	—	110.8	327	e 15 3	+ 2	i 28 43	+68	53.7	74.7
Stonyhurst	—	111.0	323	e 19 14	PR <sub>2</sub>	28 29	+52	55.7	61.0
Tortosa	—	111.3	310	e 15 28	+24	26 41	-59	e 49.7	75.2
Bidston	—	111.4	323	e 19 24	PR <sub>2</sub>	e 27 7	-34	44.8	65.1
Alicante	—	112.4	308	e 19 43	PR <sub>2</sub>	i 27 23	-26	39.4	69.0
Plymouth	—	112.8	321	29 24	? S	(29 24)	+92	—	—
Almeria	—	114.0	307	e 14 36	-40	27 58	- 4	e 60.0	63.5
Toledo	—	114.9	310	e 18 31	[- 7]	e 27 46	-23	e 45.9	71.9
Granada	—	115.0	306	e 15 17	- 3	—	—	57.7	76.7
Malaga	—	115.7	306	e 18 47	[+ 7]	29 37	+81	37.3	75.1
San Fernando	—	117.1	306	e 18 10	[-34]	28 9	-18	—	—
Rio Tinto	—	117.3	307	17 39?	[-66]	—	—	—	—
Lisbon	—	119.0	309	—	—	—	—	e 105.7?	—
Victoria	E.	119.9	38	20 7	PR <sub>1</sub>	—	—	56.1	57.3
	N.	119.9	38	20 17	PR <sub>1</sub>	—	—	51.5	83.9
Spokane	—	123.8	37	e 14 6	?	—	—	61.7	72.7
Berkeley	E.	124.3	50	—	—	e 26 27	—	e 55.5	—
Azores	—	131.6	313	87 51	? L	—	[+30]	(87.9)	96.9
La Plata	—	134.9	192	19 26	[- 4]	—	—	61.7	—
Tucson	E.	134.9	51	i 19 22	[- 8]	—	—	—	86.1
	N.	134.9	51	i 19 25	[- 5]	26 15	? PR <sub>2</sub>	58.7	84.3
Ottawa	—	143.1	6	i 19 33	[-12]	e 29 37	? PR <sub>2</sub>	e 67.7	87.7
Chicago	—	143.3	23	i 19 31	[-13]	i 30 59	?	e 61.5	66.9
Toronto	N.	144.2	11	i 19 31	[-16]	e 29 36	? PR <sub>2</sub>	71.7	84.7
Ann Arbor	—	144.3	17	i 19 39	[- 8]	e 29 45	? PR <sub>2</sub>	e 51.3	76.0
St. Louis	N.	144.8	29	e 19 36	[-12]	e 30 5	PR <sub>2</sub>	50.4	84.7
Ithaca	—	145.9	9	i 19 42	[- 6]	e 29 57	PR <sub>2</sub>	74.6	—
Harvard	E.	146.6	2	e 19 45	[- 6]	—	—	62.9	81.9
Fordham	—	147.8	6	i 19 57	[+ 4]	30 37	? PR <sub>2</sub>	e 52.9	71.1
Loyola	N.	151.2	40	e 19 27	[-30]	e 30 54	PR <sub>2</sub>	e 66.0	103.5
Sucre	—	151.8	187	—	—	34 26	?	69.7	91.7
La Paz	—	154.5	182	i 20 0	[- 2]	e 33 56	?	73.5	78.5
San Juan	E.	170.2	344	—	—	—	—	94.3	—

Additional readings and notes : In the [S] observations no allowance has been made for the deep focus at present. Malabar i = +1m.6s. Batavia iP = +1m.19s. Amboina L = +14.7m. Manila PS = +9m.7s., SR<sub>1</sub> = +11m.49s., MN = +21.5m. Phu-Lien MN = +18.1m. Hong Kong ? = +7m.57s. Taihoku PE = +8m.46s., SN = +12m.33s., MN = +25.3m. Zi-ka-wei PR<sub>1</sub> = +8m.11s., MNZ = +30.5m. Melbourne e = +11m.27s. Sydney SR<sub>2</sub> = +18m.45s. Riverview PS = +15m.1s., eSR<sub>1</sub> = +18m.17s. and +18m.52s. = SR<sub>2</sub> -2s., MN = +25.0m., MZ = +32.9m. Sumoto S = +12m.21s. Dehra Dun readings have all been increased by 1h. Mizusawa PN = +9m.40s. Tashkent iP = +11m.28s. and +11m.33s. Christchurch readings have all been increased by 1h. Wellington PR<sub>1</sub>E = +13m.56s., SR<sub>1</sub>E = +23m.43s., SR<sub>2</sub>N = +26m.31s., SR<sub>1</sub>E = +27m.18s. = SR<sub>2</sub> +4s. Baku i = +11m.43s. and +13m.37s. Apia PR<sub>1</sub> = +13m.4s., L = +22.1m., also +26m.17s. = SR<sub>1</sub> -29s. and +28m.49s.; the readings have all been decreased by 1min. Ekaterinburg iP = +12m.21s., PR<sub>1</sub> = +15m.1s., iS = +22m.50s., MN = +47.9m., MZ = +48.5m. Platigorsk iP = +13m.19s., i = +23m.32s. Makeyevka PR<sub>1</sub> = +16m.18s., PS = +23m.56s., SR<sub>1</sub> = +29m.5s., MN = +54.2m., MZ = +59.7m. Pulkovo iP = +13m.16s., PR<sub>1</sub> = +17m.0s., i = +17m.21s., S<sub>1</sub>E<sub>2</sub>S = +23m.48s., SR<sub>1</sub> = +30m.57s., MN = +51.9m., MZ = +57.2m.

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Leningrad  $IP = +13m.16s.$ ,  $PR_1 = +17m.17s.$ ,  $PR_2 = +18m.51s.$ ,  $S_pP_s = +23m.52s.$ ,  $IP_s = +26m.23s.$ ,  $SR_1 = +31m.51s.$ ,  $MN = +56.3m.$ ,  $MZ = +60.7m.$  Athens  $ePR_1 = +16m.59s.$ ,  $ePR_2 = +19m.56s.$ ,  $eSR_1 = +30m.15s.$ ,  $eLN = +49.3m.$ ,  $MN = +62.5m.$  Honolulu  $ePR_N = +17m.9s.$ ,  $ePR_1E = +17m.15s.$ ,  $ePR_2E = +21m.21s.$ ,  $PR_2N = +21m.33s.$ ,  $ePSE? = +26m.27s.$ ,  $PSN = +26m.39s.$ ,  $SR_1N? = +30m.9s.$ ,  $SR_1E? = +30m.15s.$  and  $+32m.39s.$ ,  $eSR_2E = +35m.39s.$ ;  $T_0 = 10h.34m.31s.$  and  $10h.34m.35s.$  Belgrade  $eSN = +36m.42s.$ ,  $eSE = +37m.12s.$  Budapest  $MN = +65.4m.$  Upsala  $iE = +24m.22s. = [S] - 12s.$ ,  $MN = +54.6m.$  Vienna  $PR_1 = +17m.2s.$ ,  $PR_2 = +19m.17s.$ ,  $ScPcS? = +24m.28s.$ ,  $PS = +25m.23s.$ ,  $PPS = +25m.42s.$ ,  $SR_1 = +30m.16s.$ ,  $SR_2 = +34m.24s.$ ,  $MN = +61.7m.$  Zagreb  $e = +14m.4s.$ ,  $+18m.9s.$ , and  $+24m.19s.$ ,  $ePR_1 = +17m.32s.$ ; all readings have been diminished by 1h. Graz  $PR_1 = +17m.54s.$ ,  $SR_1 = +32m.28s.$  Rocca di Papa  $ePZ = +13m.59s.$ ,  $ePE = +14m.2s.$ ,  $PR_1Z = +16m.29s.$  Hamburg  $eN = +34m.39s.$ ,  $eE = +42m.15s.$ ,  $MZ = +65.9m.$ ,  $MN = +67.1m.$  Ravensburg  $eE = +13m.49s.$  and  $+18m.23s.$ ,  $ePR_2E = +24m.47s.$  Hohenheim  $ePR_2 = +24m.45s.$ ,  $eLN = +37.5m.$ ,  $MN = +57.8m.$  Strasbourg  $PR_1 = +18m.51s.$  and  $+18m.55s.$ ,  $PS = +27m.7s.$ ,  $MZ = +73.1m.$ ,  $MN = +73.3m.$  De Bilt  $eZ = +17m.44s.$ ,  $eLN = +47.7m.$ ,  $MN = +57.1m.$ ,  $MZ = +69.7m.$  Uccle  $ePR_1 = +18m.33s.$  Barcelona  $i = +19m.26s.$ ,  $MN = +72.3m.$  Kew  $PR_1 = +18m.59s.$ ,  $MN = +57.7m.$  Oxford  $PR_1 = +27m.19s.$  Tortosa  $eN = +17m.39s.$ ,  $MN = +68.8m.$  Alicante  $MN = +66.9m.$  Almeria  $PR_1 = +19m.47s.$ ,  $SR_1 = +31m.19s.$ ,  $MN = +64.7m.$  Toledo  $iNE = +19m.42s.$  Granada  $i = +17m.1s.$ ,  $iP = +19m.1s.$ ,  $PR_1 = +19m.43s.$ ,  $PR_2 = +22m.37s.$ ,  $PR_3 = +24m.37s.$ ,  $PS = +29m.19s.$ ,  $PPS = +30m.24s.$ ,  $SR_1 = +35m.31s.$  Malaga  $P = +19m.41s.$ ,  $MN = +75.6m.$  Spokane  $i = +14m.31s.$ ,  $eN = +19m.6s.$  and  $+38m.1s.$  Berkeley  $eE = +37m.45s.$  Tucson  $PR_N = +21m.51s.$ ,  $PR_1E = +21m.54s.$ ,  $PcPcSE = +22m.51s.$ ,  $PR_2E = +25m.9s.$ ,  $iPR_N = +25m.16s.$ ,  $PR_2N = +27m.51s.$ ,  $PR_3E = +28m.57s.$ ,  $SPE = +32m.3s.$ ,  $eSR_1E = +39m.33s.$ ,  $SR_1N = +40m.15s.$ ,  $SR_2E = +47m.41s.$ ,  $SR_2N? = +48m.39s.$  Ottawa  $iN = +19m.54s.$ ,  $PR_1 = +22m.45s.$ ,  $eSR_1N? = +41m.6s.$ ,  $eSR_2N = +46m.54s.$ ;  $T_0 = 10h.34m.11s.$  Chicago  $iPR_1E = +23m.2s.$ ,  $PR_1E = +25m.40s.$ ,  $ePSE? = +32m.33s.$ ,  $iPSE? = +33m.36s.$ ,  $iPPSE = +35m.11s.$ ,  $SR_1E? = +41m.21s.$  and  $+42m.9s.$ ,  $iSR_1E? = +45m.34s.$ ,  $SR_1E? = +45m.51s.$ ,  $SR_2E = +51m.3s.$ ,  $SR_1E? = +53m.51s.$  Toronto  $PE = +19m.33s.$ ,  $PR_1N = +23m.6s.$ ,  $ME = +84.0m.$  Ann Arbor  $iPR_1 = +23m.21s.$ ,  $ePR_2 = +26m.15s.$ ,  $ePSE = +32m.3s.$ ,  $iSR_2 = +42m.3s.$ ,  $LN = +52.3m.$ ,  $MN = +97.0m.$  St. Louis  $eE = +19m.45s.$ ,  $eN = +31m.34s.$ ,  $+35m.36s.$ , and  $+40m.58s.$  Ithaca  $e = +22m.59s.$ ,  $+32m.49s.$ , and  $+41m.11s.$  Harvard  $iPE = +20m.1s.$ ,  $PR_1E = +23m.25s.$ ,  $PcPcSE = +32m.59s.$ ,  $PSE = +33m.57s.$ ,  $PPSE = +35m.27s.$ ,  $PR_1E = +40m.47s.$  and  $+42m.18s.$ ,  $SR_1E? = +49m.21s.$  Fordham  $PR_1 = +23m.39s.$ ,  $PS = +30m.51s.$ ,  $SR_1N = +35m.22s.$ ,  $SR_2 = +37m.40s.$  Loyola  $iPE = +19m.39s.$  Sucre  $SR_1 = +43m.14s.$  La Paz  $i = +21m.25s.$ , and  $+31m.0s.$ ,  $PR_1 = +23m.39s.$ ,  $PR_2 = +26m.45s.$ ,  $PR_3 = +29m.40s.$ ,  $SR_1 = +39m.20s.$ ,  $SR_2 = +42m.40s.$ ;  $T_0 = 10h.34m.38s.$  San Juan  $PR_1N = +25m.13s.$ ,  $PR_1 = +25m.39s.$ ,  $eE = +26m.22s.$ ,  $eN = +35m.9s.$  and  $+38m.44s.$ ,  $LN = +95.0m.$

Sept. 10d. 19h. 52m. 2s. Epicentre  $9^{\circ}08. 111^{\circ}0E.$

(As at 10h., but focal depth assumed 0.030 instead of 0.013. The evidence is slight, but the stations being all approximately in the same azimuth it is difficult to reconcile the values of  $\Delta$  without this assumption).

	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Malabar	+0.2	3.8	298	0 57	- 5	-	-	-	-
Batavia	0.0	5.0	304	1 16	- 1	12 39	+22	-	-
Tashkent	-3.7	63.2	326	-	-	e 21 18	+181	e 35.0	44.6
Ekaterinburg	-4.0	77.6	335	e 11 38	- 2	e 21 13	+ 4	22.0	-
Pulkovo	-4.2	93.1	330	-	-	e 24 17	+15	e 53.0	-

Tashkent gives also  $e = +19m.55s.$ ,  $+20m.4s.$ ,  $+22m.46s.$   $-SR_1 - 14s.$ , and  $+30m.58s.$ ,  $MZ = +39.7m.$

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Sept. 10d. Readings also at 3h. (Moncalieri, near Mostar, and Rocca di Papa, near Toyooka), 4h. (Bagnères and near Matuyama), 5h. (Ekaterinburg and near Mizusawa), 10h. (Rocca di Papa, Amboina, Tacubaya, and Florence), 11h. (near Toyooka), 12h. (Sucre and Malabar (2)), 13h. (Sucre, Tacubaya, Batavia (2), and Malabar), 14h. (Taihoku), 15h. (Malabar (2) and Batavia), 16h. (Tashkent, Batavia, and Malabar), 17h. (Batavia and Malabar), 19h. (Batavia (2) and Malabar (3)), 20h. (Matuyama), 22h. (Tokyo), 23h. (near La Paz).

Sept. 11d. 12h. 27m.32s. Epicentre 9°-0S. 111°-0E.

Focal depth 0-013 (as on Sept. 10d. 10h.).

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\Delta$	$\Delta$	$\Delta$	m. s.	s.	m. s.	s.	m.	m.
Malabar	+0.1	3.8	298	i 1 5	+ 4	1 50	+ 3	—	—
Batavia	0.0	5.0	304	i 1 19	+ 2	i 2 13	- 4	i 3.4	—
Amboina	-0.5	17.9	74	e 3 22	-48	i 6 59	-28	14.8	—
Manila	-0.8	25.6	23	e 5 40	+ 4	(10 21)	+22	10.3	—
Phu-Lien	-0.9	30.1	351	e 5 25	-55	—	—	—	18.5
Hong Kong	-0.9	31.5	6	e 6 38?	+ 4	—	—	—	28.5
Colombo	-1.0	34.9	296	12 28	?S	(12 28)	-11	—	33.8
Adelaide	-1.0	36.2	140	e 6 53	-22	12 40	-18	16.6	21.8
Kodaikanal	-1.0	38.4	299	13 10	?S	(13 10)	-20	—	—
Hyderabad	-1.1	41.6	310	7 45	-14	13 55	-19	—	27.2
Melbourne	-1.1	42.0	139	i 8 16	+14	i 13 52	-28	—	26.6
Riverview	-1.2	44.4	130	—	—	e 12 40?	-131	e 22.4	28.1
Bombay	-1.2	46.8	308	8 27	-10	15 12	-10	e 23.9	31.4
Simla	-1.3	51.6	323	—	—	—	—	e 26.5	—
Irkutsk	-1.5	61.5	356	e 10 15	+ 3	e 18 38	+15	34.5	38.4
Baku	-1.7	74.8	317	i 11 39	+ 2	i 21 15	+12	35.5	48.3
Ekaterinburg	-1.7	77.6	335	i 11 56	+ 2	i 21 43	+ 7	33.5	43.5
Makeyevka	-1.8	85.6	320	e 12 38	- 3	23 8	+ 1	40.5	59.8
Pulkovo	-1.8	93.1	330	13 17	- 6	24 23	- 4	47.5	58.1
Leningrad	-1.8	93.2	330	i 13 15	- 8	—	—	50.4	59.7
Vienna	-1.9	99.8	319	e 17 54	PR <sub>1</sub>	—	—	e 61.5	—
Hamburg	-2.0	103.7	324	—	—	—	—	59.5	—
Strasbourg	-2.1	105.5	319	e 18 28	PR <sub>1</sub>	—	—	58.4	—
Moncalieri	-2.1	105.7	315	e 21 42	PR <sub>2</sub>	—	—	—	—
De Bilt	-2.1	108.8	322	—	—	e 25 4	[+ 8]	e 51.5	71.5
Paris	-2.1	108.9	319	e 19 13	PR <sub>1</sub>	—	—	57.5	—
Dyce	-2.1	109.9	328	—	—	e 27 5	- 3	59.8	70.5
Kew	—	110.2	321	—	—	e 28 28	+58	62.5	—
Oxford	—	110.7	321	—	—	—	—	—	76.5
Edinburgh	—	110.8	327	—	—	—	—	e 68.5	—
Granada	—	115.0	306	i 19 50	PR <sub>1</sub>	—	—	57.7	63.5
San Fernando z.	—	117.1	306	—	—	—	—	—	85.5
Ottawa	—	143.1	6	—	—	e 27 4	PR <sub>2</sub>	e 74.9	—
Sucre	—	151.8	187	i 19 58	[ 0]	—	—	80.8	92.8
La Paz	—	154.5	182	20 0	[- 1]	—	—	82.5	—

Additional readings and notes: Riverview eSR<sub>1</sub>(?) = +17m.16s., MN = +25.7m. Melbourne i = +3m.10s., P and S are given as i simply. Simla eN = +25m.22s. Irkutsk MZ = +42.1m. Baku MN = +51.1m., MZ = +54.9m. Ekaterinburg PR<sub>1</sub> = +14m.51s., PR<sub>2</sub> = +17m.12s., PR<sub>3</sub> = +18m.54s., SR<sub>1</sub> = +26m.50s., SR<sub>2</sub> = +31m.6s., SR<sub>3</sub> = +31m.36s., MN = +43.7m., MZ = +49.4m. Makeyevka PS = +24m.7s., MN = +55.6m. Pulkovo PR<sub>1</sub> = +17m.0s., S<sub>1</sub>P<sub>1</sub>S = +23m.50s. = [S] + 3s. MN = +57.4m., MZ = +58.3m. Leningrad PR<sub>1</sub> = +16m.59s., MZ = +62.8m. Dyce e = +36m.28s. San Fernando MN = +80.0m. Ottawa eE = +31m.58s., eN = +44m.10s. Sucre i = +20m.13s. and +21m.4s. La Paz i = +20m.17s. and +20m.53s.

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Sept. 11d. 17h. 2m. 30s. Epicentre 20°·8N, 106°·6E. (Phu-Lien).

A = -·267, B = +·896, C = +·355.

(The epicentre is clearly near Phu-Lien, but as there is scarcely sufficient evidence to show in which direction the displacement should be, Phu-Lien itself has been adopted for reference.)

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	0·0	—	—	—	e 0 5	+ 5	0·3	—
Irkutsk	31·5	358	e 6 57	+14	e 11 59	- 1	—	—
Bombay	31·7	275	e 9 30†	?	—	—	—	—
Tashkent	37·5	315	(e 7 36)	+ 2	—	—	e 7·6	19·1
Ekaterinburg	49·2	330	14 2	-299	e 13 53	-136	16·5	—
Baku	51·7	309	—	—	—	—	23·5	—
De Bilt	80·5	323	—	—	—	—	e 37·5	—

Sept. 11d. Readings also at 1h. (Tashkent, Malabar, and near Batavia), 3h. (Tokyo), 6h. (Malabar (2) and Batavia (2)), 7h. (Tashkent), 10h. (Batavia and near Malabar), 11h. (Apia), 12h. (Tashkent and Malabar), 13h. (near Batavia (2) and Malabar (2)), 14h. (near Batavia and Malabar), 15h. (Tashkent, Irkutsk, Baku, Adelaide, and Tacubaya), 22h. (Sucre, Tashkent, and Ekaterinburg), 23h. (Batavia, Malabar, Granada, Baku, Moncalieri, and Sucre.)

Sept. 12d. 15h. 43m. 36s. Epicentre 22°·0N. 120°·5E.

(as on 1925 April 16d.).

A = -·471, B = +·799, C = +·375; D = +·862, E = +·508;

G = -·190, H = +·323, K = -·927.

(Was there a second shock about a minute later, shown by Zi-ka-wei and by the S of several stations, Calcutta, Vienna, Graz, Zagreb, Pompei, etc.?)

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E. 3·2	18	0 48	- 2	(1 28)	0	1·5	1·8
Hong Kong	5·9	274	1 49	+18	—	—	3·4	4·4
Manila	7·4	176	e 2 23	+31	14 59	+98	15·8	8·1
Zi-ka-wei	9·2	5	e 3 39	+80	5 34	+86	—	6·5
Phu-Lien	13·0	267	e 3 33	+20	17 5	+81	8·4	9·6
Nagasaki	13·5	36	e 2 45	-35	—	—	7·0	10·1
Hukuoka	N. 14·5	35	3 34	+ 1	—	—	e 8·6	—
Sumoto	17·6	43	e 4 20	+ 8	e 7 19	-12	e 11·0	13·3
Kobe	18·0	42	—	—	—	—	—	14·5
Osaka	18·2	43	4 29	+10	(7 57)	+13	8·0	13·8
Nagoya	19·5	44	4 23	-12	(7 55)	-18	7·9	8·0
Mizusawa	24·5	41	5 17	-16	9 26	-28	13·4	—
Calcutta	E. 29·8	277	6 35	+ 9	12 34	+63	20·8	—
	N. 29·8	277	6 37	+11	12 20	+49	—	—
Batavia	31·2	209	5 38	-62	—	—	—	—
Irkutsk	32·7	342	16 36	-18	e 12 15	- 4	17·4	19·3
Dehra Dun	38·8	294	(7 54)	+10	(13 39)	-10	18·2	18·9
Simla	E. 39·6	293	7 30	-21	13 36	-24	—	25·8
	N. 39·6	293	7 48	- 3	13 48	-12	—	22·8
Hyderabad	39·8	273	7 50	- 3	13 48	-15	19·3	26·5
Colombo	42·0	256	—	—	—	—	27·9	30·5
Kodalkanal	42·9	262	14 0	†S	(14 0)	-47	29·6	30·6
Bombay	44·6	274	8 32	+ 2	15 7	- 3	23·1	29·0
Tashkent	46·9	310	18 43	- 3	115 42	+ 2	e 24·4	35·6
Ekaterinburg	55·4	325	19 42	0	117 27	+ 1	e 22·4	35·6
Baku	61·5	307	—	—	—	—	29·4	37·2
Riverview	63·0	151	—	—	e 18 54	- 7	e 32·7	36·9
Makeyevka	69·0	317	e 11 14	+ 3	e 20 26	+12	33·4	47·9
Pulkovo	71·2	329	111 28	+ 4	20 43	+ 3	36·4	47·1
Leningrad	71·2	329	111 26	+ 2	20 40	+ 0	35·3	45·0
Honolulu	74·6	73	e 11 48	+ 2	21 18	- 3	35·4	43·1
Upsala	77·3	330	—	—	e 21 54	+ 2	e 37·4	42·6
Budapest	81·3	318	12 41	+14	—	—	e 44·4	50·6
Athens	81·8	310	e 12 20	- 9	23 3	+19	32·2	61·3

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bergen	82.5	335	—	—	—	—	e 36.4	—
Vienna	82.6	320	e 12 33	- 1	23 52	+59	e 42.4	54.4
Graz	83.6	320	e 12 37	- 3	e 24 16	+71	45.4	49.8
Hamburg	83.8	326	e 12 38	- 3	e 23 40	+33	e 44.4	45.4
Zagreb	83.9	318	e 12 41	0	e 24 6	+58	e 45.4	—
Cheb	84.1	322	e 12 44	+ 1	e 23 19	+10	e 43.4	65.4
Innsbruck	N.E. 86.1	320	—	—	—	—	e 44.4	—
Venice	86.4	319	14 24?	+89	—	—	—	—
Hohenheim	86.6	322	—	—	—	—	e 46.1	57.0
Ravensburg	E. 86.8	322	—	—	—	—	e 46.9	49.8
De Bilt	87.0	326	i 12 54	- 5	—	—	e 40.4	48.8
Pompeii	87.1	314	e 13 2	+ 2	e 24 44	+62	—	—
Dyce	87.5	334	i 13 2	0	—	—	40.9	49.6
Strasbourg	87.6	322	13 0	- 3	e 23 50	+ 2	42.4	52.4
Zurich	87.7	320	e 13 17	+14	e 23 50	+ 1	—	—
Florence	87.8	317	e 23 24?	?S	(e 23 24)	[+10]	48.4	49.7
Rocca di Papa	87.9	315	12 59	- 5	e 23 0	[-14]	e 45.9	59.4
Uccle	88.2	325	—	—	e 23 24	[+ 8]	e 41.4	49.0
Besançon	89.3	321	—	—	—	—	47.4	—
Moncalieri	89.3	319	e 12 42	-30	23 20	[- 4]	45.5	54.0
Victoria	89.5	36	13 2	-11	23 42	-27	47.4	53.5
Stonyhurst	89.7	330	—	—	—	—	45.4	51.4
Paris	90.3	324	—	—	—	—	e 46.4	49.4
Bidston	90.3	330	—	—	24 41	+24	40.2	59.1
Oxford	90.5	329	—	—	—	—	e 41.4	49.9
Barcelona	94.7	319	—	—	e 26 26	+83	e 47.4	54.1
Tortosa	N. 96.0	320	e 21 24?	?PR <sub>1</sub>	—	—	e 43.4	61.2
Algiers	96.7	315	e 13 27	-26	e 24 30	-53	48.4	—
Alicante	98.2	318	—	—	—	—	e 54.5	66.4
Toledo	99.4	320	—	—	—	—	e 49.9	58.6
Granada	100.8	318	e 13 41	-33	—	—	e 53.6	68.0
Malaga	101.6	318	e 17 8	[-44]	27 20	?PS	—	62.1
Rio Tinto	102.3	320	48 24?	?L	—	—	(48.4)	66.4
San Fernando	102.9	319	—	—	25 0	[+22]	55.9	59.4
Lisbon	103.2	321	—	—	—	—	e 54.9	—
Tucson	106.8	45	(20 38)	?PR <sub>1</sub>	—	—	—	—
Ottawa	111.0	12	—	—	e 24 24	[-50]	e 55.4	—
Toronto	N. 111.8	15	i 19 17	?PR <sub>1</sub>	—	—	71.8	75.6
La Paz	170.1	58	i 20 29	[+14]	(30 38)	?PR <sub>1</sub>	—	—
Sucre	173.8	62	i 20 25	[+ 9]	e 34 35	?PR <sub>1</sub>	81.8	95.8

Additional readings and notes: Manila PR<sub>1</sub> = +2m.44s., MN = +8.4m. Zi-ka-wai readings are all given for 14h. Are they in error also by about 80 sec. ? Phu-Lien MN = +10.4m. Sumoto MN = +12.4m. Kobe MN = +14.0m. Osaka MN = +15.0m. Mizusawa PN = +5m.19s. Irkutsk MN = +20.7m., MZ = +22.8m.; epicentre 22°·6N. 127°·8E. Dehra Dun P and S have been increased by 6m. Tashkent i = +9m.6s., +9m.20s., and +11m.27s. = PR<sub>1</sub> + 5s., e = +10m.45s. = PR<sub>1</sub> + 1s., iSR<sub>1</sub> = +18m.40s., MN = +25.5m., MZ = +33.3m.; epicentre 21°·2N. 120°·8E. Ekaterinburg PR<sub>1</sub> = +11m.48s., PR<sub>2</sub> = +12m.52s., SR<sub>1</sub> = +21m.55s., MN = +31.4m.; epicentre 25°·13'N. 125°·29'E. Riverview MN = +36.7m. Makeyevka eSR<sub>1</sub> = +28m.46s., MN = +40.5m., MZ = +44.3m. Pulkovo PR<sub>1</sub> = +14m.50s., SR<sub>1</sub> = +26m.0s., SR<sub>2</sub> = +29m.6s., MN = +39.6m. Leningrad i = +13m.24s., PR<sub>1</sub> = +16m.2s., SR<sub>1</sub> = +28m.58s., SR<sub>2</sub> = +30m.58s., MN = +39.8m., MZ = +45.2m. Honolulu PE = +11m.52s. Budapest MN = +52.7m. Zagreb readings are given for 14h. De Bilt PR<sub>1</sub>Z = +16m.16s., MZ = +57.4m. Dyce i = +12m.43s. and +13m.16s., PR<sub>1</sub> = +16m.24s. Strasbourg P = +13m.1s., MN = +55.6m., MZ = +57.4m. Rocca di Papa eLE = +48.4m. Oxford MN = +58.9m. Alicante MN = +70.5m. Toledo MNW = +56.7m. Granada i = +14m.16s. = P + 2s., and +18m.13s. = PR<sub>1</sub> - 5s., PS = +28m.17s. San Fernando MN = +62.4m. Tucson reading is given as PR<sub>1</sub>. La Paz readings are given as separate P's. Sucre i = +25m.43s. = PR<sub>1</sub> - 13s., PR<sub>2</sub> = +29m.42s., PR<sub>3</sub> = +32m.37s., SR<sub>1</sub> = +40m.16s., SR<sub>2</sub> = +39m.46s.

Sept. 12d. Readings also at 5h. (Tashkent), 6h. (Ekaterinburg, Manila, La Paz, and Sucre), 7h. (Tashkent (2)), 10h. (Nagasaki, Batavia, and near Malabar), 13h. (Adelaide, Irkutsk, Tashkent, Ekaterinburg, Sucre, near Batavia and Malabar), 14h. (Tashkent), 16h. (Taihoku (5)), 17h. (Sucre), 18h. (Taihoku), 19h. (Irkutsk and Taihoku(2)), 20h. (Matuyama, near La Paz, and Sucre), 21h. (Tashkent, Ekaterinburg, near Batavia, and Malabar), 22h. (Taihoku and La Plata), 23h. (Taihoku, Tashkent, and La Plata).

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Sept. 13d. Readings at 0h. (Irkutsk, Baku, Ekaterinburg, Makeyevka, Kucino, De Bilt, and Granada), 1h. (Tashkent), 4h. (near Taihoku), 6h. (Tashkent), 7h. (La Paz and Sucre), 8h. (Taihoku and Ekaterinburg), 11h. (Tashkent), 12h. (Ekaterinburg), 14h. (Tashkent), 16h. (Baku and Tucson (2)), 18h. (Tashkent, Ekaterinburg, La Paz, near Batavia, and Malabar), 19h. (Sucre), 20h. (near Zurich), 22h. (Tokyo).

Sept. 14d. Readings at 0h. (near Toyooka), 1h. (Moncalieri and Tashkent), 2h. (Ekaterinburg), 6h. (Ekaterinburg, Vera Cruz., Puebla, and Tacubaya), 7h. (Ottawa, Victoria, and Tucson), 9h. (Tacubaya), 12h. (Tashkent), 13h. (near Mostar), 17h. (Ekaterinburg), 20h. (Sucre), 23h. (near Batavia and Malabar).

Sept. 15d. 11h. 29m. 35s. (I) } Epicentre 3° 0S. 143° 5E. (as on 1925 May 1d.).  
 11h. 55m. 0s. (II) }

A = - .803, B = + .594, C = - .052 ; D = + .595, E = + .804 ;  
 G = + .042, H = - .031, K = - .999.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
I Manila	28.4	309	e 7 7	†PR <sub>1</sub>	(11 25)	+19	11.4	—
II	28.4	309	e 6 19	+ 7	(11 28)	+22	11.5	—
I Riverview	31.7	168	e 7 37	†PR <sub>1</sub>	e 12 37	+34	e 16.7	19.9
II	31.7	168	—	—	—	—	e 16.8	19.9
II Sydney	31.7	168	—	—	14 12	†SR <sub>1</sub>	18.3	20.2
I Adelaide	32.3	188	—	—	e 12 2	-11	18.7	19.2
II	32.3	188	—	—	i 12 2	-11	i 17.6	21.4
I Melbourne	34.8	178	—	—	e 12 13	-39	i 20.1	22.4
II	34.8	178	—	—	—	—	i 20.8	23.4
II Taihoku	E. 35.2	324	—	—	e 12 35	-23	22.1	—
I Batavia	36.7	264	e 6 55	-33	+ 2	—	—	—
II	36.7	264	e 7 30	+ 2	—	—	—	—
I Hong Kong	38.2	314	8 48	†PR <sub>1</sub>	13 10	-31	16.4	—
II	38.2	314	—	—	13 10	-31	16.0	—
II Osaka	38.4	350	7 2	-39	—	—	18.5	21.3
I Perth	38.9	219	13 55	†S	(13 55)	+ 4	(20.1)	26.4
II	38.9	219	—	—	—	—	20.9	—
II Honolulu	E. 62.2	64	10 55	+29	—	—	30.4	—
I Irkutsk	64.4	335	e 10 39	- 2	e 19 9	- 9	e 31.4	—
II	64.4	335	10 50	+ 9	e 19 14	- 4	32.0	—
I Bombay	72.8	291	—	—	e 19 25?	?	—	—
I Tashkent	80.3	313	112 30	+ 9	22 17	-10	e 39.4	44.8
II	80.3	313	i 13 17	+56	i 22 21	- 6	e 38.0	45.0
I Ekaterinburg	88.6	328	e 13 10	+ 2	23 44	-15	38.4	—
II	88.6	328	i 13 7	- 1	i 23 46	-13	42.0	49.9
I Victoria	E. 94.4	42	—	—	—	—	43.9	—
II	E. 94.4	42	—	—	—	—	54.4	55.8
I Baku	94.7	311	e 22 47	?	e 30 54	†SR <sub>1</sub>	e 47.6	—
II	94.7	311	e 18 15	†PR <sub>1</sub>	e 26 1	PS	47.0	—
I Kucino	101.2	327	—	—	e 26 55	†PS	50.1	59.2
I Makeyevka	102.5	320	—	—	—	—	e 59.4	—
II	102.5	320	e 19 0?	†PR <sub>1</sub>	e 25 0?	[+24]	—	61.3
I Leningrad	104.0	331	—	—	e 44 11	?	53.3	62.9
II	104.0	331	—	—	—	—	50.9	62.8
I Pulkovo	104.1	331	—	—	e 29 9	+155	55.4	62.8
II	104.1	331	—	—	—	—	52.0	62.2
II Upsala	109.8	335	—	—	—	—	e 40.0	—
II Budapest	N. 114.8	322	—	—	—	—	e 67.5	—
II Hamburg	116.7	331	—	—	—	—	e 59.0	69.0
II Cheb	117.5	327	—	—	—	—	e 63.0	68.0
I De Bilt	120.0	332	—	—	—	—	e 63.4	—
II	120.0	332	—	—	—	—	e 60.0	76.6
II Chicago	E. 120.1	42	—	—	—	—	e 64.2	66.3
II Edinburgh	120.7	339	—	—	—	—	e 49.0	—
II Strasbourg	120.8	330	e 19 0?	[+ 6]	—	—	67.0	—
I Uccle	121.2	331	—	—	—	—	e 60.4	—
I Moncalieri	122.9	324	—	—	e 30 55	?	57.6	—
I Kew	122.9	334	—	—	e 46 25?	†SR <sub>1</sub>	70.4	—
I Oxford	123.1	336	—	—	—	—	e 65.4	—
II	123.1	336	—	—	—	—	—	72.5

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
II Paris		123.4	330	e 20 43	?PR <sub>1</sub>	—	—	46.0	73.0
I Toronto	E.	124.4	37	—	—	—	—	56.4	92.4
I Ottawa		125.5	33	—	—	e 41 25	?	e 56.4	—
II	E.	125.6	33	—	—	—	—	60.0	—
II Tortosa	N.	129.6	324	—	—	—	—	e 70.0	83.1
II Algiers		130.4	318	—	—	—	—	95.0	—
II Toledo		132.8	326	—	—	—	—	e 59.5	77.3
II Granada		134.4	323	e 19 32	[+ 3]	—	—	52.7	56.7
II San Fernando	E.	136.4	324	—	—	—	—	—	90.5
I La Paz		143.1	123	1 20 4	[+19]	—	—	—	—
II		143.1	123	1 20 3	[+18]	—	—	79.0	—
I Sucre		144.2	128	1 19 57	[+10]	—	—	—	—
II		144.2	128	1 20 4	[+17]	—	—	79.3	96.3

Additional readings and notes: Riverview I MN = +20.8m., II MN = +46.8m., MZ = +47.5m. Adelaide I SR<sub>1</sub> = +15m.42s., MN = +21.4m., II SR<sub>1</sub> = +15m.50s., MN = +21.1m. Batavia II i = +8m.44s. = PR<sub>1</sub> + 1s. Hong Kong I and II readings are given for 10h. Osaka II MN = +20.2m. Perth I P = +18m.15s., S = +20m.45s.; true S is given as P and L as S. It seems possible there were other shocks; see Tashkent. Honolulu II eN = +10m.0s. = P - 26s., and +17m.18s. Tashkent I e = +16m.1s. = PR<sub>1</sub> + 8s., +27m.31s. = SR<sub>1</sub> - 47s., and +29m.18s., II MN = +48.7m. Ekaterinburg MN = +51.2m., MZ = +52.8m. Victoria II LN = +49.4m. Kucino I e = +32m.29s. = SR<sub>1</sub> - 23s. Makeyevka II MN = +59.2m. Leningrad I MN = +62.2m., II MZ = +65.7m., II MZ = +62.6m., MN = +63.3m. Pulkovo I e = +44m.8s., MZ = +61.8m., II MZ = +62.3m. Budapest II eE = +68m.0s. De Bilt II MN = +65.1m., MZ = +68.2m. Ottawa II LN = +58.0m. Granada II i = +23m.7s., +26m.6s. = PR<sub>1</sub> + 32s. and +26m.30s. San Fernando II MN = +87.5m. La Paz I i = +20m.14s. and +20m.42s., II i = +20m.13s. and +20m.46s. Sucre I i = +20m.7s. and +20m.16s., II i = +20m.23s. and +20m.42s.

Sept. 15d. Readings also at 0h. (Ekaterinburg), 1h. (near Malabar), 2h. (Perth), 7h. (Tokyo), 9h. (near Sumoto and Hukuoka), 13h. (near Laibach and near Tacubaya), 14h. (La Paz and Sucre), 16h. (Ekaterinburg and Tashkent), 17h. (Port au Prince), 18h. (Tucson), 19h. (near La Paz and Sucre), 20h. (Ekaterinburg and Granada), 22h. (Moncalieri and Sucre).

Sept. 16d. 17h. 59m. 12s. Epicentre 10°7S. 159°7E.

A = -0.922, B = +0.341, C = -0.186; D = +0.347, E = +0.938;  
G = +0.174, H = -0.064, K = -0.983.

A depth of focus 0.020 has been assumed (see the note at the end). The long series of observations of [P] is noteworthy. The additional readings for Sucre and for a number of European stations (e.g., Hamburg, Belgrade, Vienna, Athens, Zagreb, and Granada) agree in suggesting that other shocks followed, 2m.26s., 3m.32s., and 9m.26s., after that tabulated, though the first of these may be PR<sub>1</sub> in some cases.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m.	m.	
Riverview	-1.1	24.4	197	15 27	+ 7	10 2	+31	e 12.8	14.5	
Sydney	-1.1	24.4	197	5 24	+ 4	9 48	+17	11.6	12.9	
Melbourne	-1.4	30.2	205	e 7 6	+50	e 12 24	+71	i 15.3	18.0	
Adelaide	-1.4	30.9	217	1 6 23	0	i 11 12	-14	i 13.1	20.1	
Ambonia	-1.5	32.0	282	15 55	-38	i 10 44	-59	15.9	—	
Wellington	E.	-1.5	33.4	1 60 18	45	- 1	i 12 10	+ 3	i 14.9	22.3
	N.	-1.5	33.4	1 60 18	48	0	i 12 10	+ 3	i 14.8	22.0
Christchurch		-1.6	34.7	1 64 8	36	?PR <sub>1</sub>	12 6	-20	15.3	22.5
Manila		-1.9	46.0	305 18	17	-10	i 15 30	+27	i 23.8	25.9
Nagoya		-2.1	50.7	337 8	49	- 9	15 54	- 7	22.4	26.6
Sumoto		-2.1	50.8	334 8	48	-12	14 45	-77	21.6	27.0
Osaka		-2.1	50.9	335 8	57	- 2	15 56	- 8	21.8	27.5
Kobe		-2.1	51.0	335 9	0	+ 1	e 16 2	- 3	21.5	26.6
Malabar		-2.2	51.6	271 9	14	+11	i 16 25	+14	e 23.8	—
Taihoku	N.	-2.2	51.6	316 8	59	- 4	(16 10)	- 1	16.2	—

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	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.	
				m.	s.	s.	s.	m.	s.	m.	s.			
Toyooka	-2.2	51.9	335	9	4	-	1	16	10	-	5	21.8	27.5	
Nagasaki	-2.2	52.0	329	8	58	-	8	16	13	-	3	19.9	28.1	
Batavia	-2.2	52.4	273	e	19	14	+6	16	29	+8	8	32.5	—	
Honolulu	-2.2	52.4	52	i	9	7	-	1	16	36	+15	e 21.5	25.3	
	N.	-2.2	52.4	52	i	9	7	-	1	16	31	+10	i 21.5	24.8
Mizusawa	-2.2	52.8	343	9	7	-	4	16	29	+9	3	23.8	—	
Hong Kong	-2.3	55.5	309	9	25	-	2	17	8	+9	9	24.8	28.9	
Zi-ka-wei	-2.3	55.7	321	i	9	21	-	1	17	7	+6	—	—	
Ootomari	-2.4	59.4	348	9	53	+1	1	(17	50)	+4	4	17.8	28.7	
Phu-Lien	-2.4	61.0	302	i	10	9	+6	18	11	+5	5	28.8	—	
Calcutta	E.	-2.6	77.4	297	13	17	+89	21	47	+23	—	—	—	
	N.	-2.6	77.4	297	13	34	+106	21	53	+29	—	—	—	
Irkutsk	-2.7	78.8	330	11	57	+1	1	21	47	+9	9	35.8	—	
Kodaikanal	-2.7	84.4	282	12	24	-	5	(22	36)	-	7	22.6	52.5	
Hyderabad	-2.7	85.1	289	12	38	+6	—	22	50	0	0	40.1	52.6	
Sitka	E.	-2.7	86.0	30	—	—	—	e 23	0	0	0	e 37.7	38.0	
	N.	-2.7	86.0	30	—	—	—	e 23	0	0	0	e 35.2	41.2	
Berkeley	E.	-2.7	87.3	50	i	12	45	-	1	e 23	10	-	e 37.4	42.5
	N.	-2.7	87.3	50	i	12	45	-	1	e 23	16	+1	e 37.1	43.3
Lick	-2.8	87.7	50	12	47	0	—	23	26	+8	8	e 37.5	43.5	
Dehra Dun	-2.8	88.3	303	(13	18)	+27	—	(20	18)	? PR <sub>1</sub>	—	(23.0)	(25.2)	
Simla	E.	-2.8	89.3	303	e	12	36	-	20	22	54	[-30]	50.1	
	N.	-2.8	89.3	303	e	12	42	-	14	23	6	-	e 38.2	49.8
Victoria	-2.8	89.6	40	12	45	-	13	24	5	+26	6	39.6	51.3	
Bombay	-2.8	90.6	289	13	5	+1	1	23	27	-	23	44.3	45.2	
Spokane	E.	-2.8	93.1	43	i	13	0	-	18	—	—	42.2	51.8	
	N.	-2.8	93.1	43	i	13	3	-	15	e 23	37	[-9]	51.8	
Tucson	E.	-2.8	95.2	58	i	13	22	-	7	i 24	53	+14	38.9	45.8
	N.	-2.8	95.2	58	i	13	22	-	7	e 24	53	+19	38.8	53.2
Tashkent	-2.9	97.3	311	i	13	27	-	13	24	3	[-6]	49.8	57.8	
Denver	E.	-2.9	100.9	51	e	13	10	-	65	25	4	-	40.3	55.9
Tacubaya	—	103.9	73	13	49	-	41	25	28	-	64	51.9	—	
Ekaterinburg	—	103.9	327	i	13	57	-	33	15	37	-	55	42.8	60.0
Baku	—	111.9	310	e	14	37	-	30	—	—	—	—	—	—
Loyola	E.	-2.7	112.7	61	e	20	57	? PR <sub>1</sub>	—	—	—	e 47.2	57.0	
St. Louis	E.	-2.7	113.2	52	e	18	7	[-25]	—	—	—	—	54.8	—
	N.	-2.7	113.2	52	e	18	8	[-24]	—	—	—	—	47.8	50.2
Chicago	—	114.0	48	14	48	-	28	27	20	-	42	e 48.4	63.8	
Kucino	—	116.4	328	—	—	—	—	e 26	48	-	93	45.9	80.9	
Piatigorsk	—	116.5	314	—	—	—	—	30	13	+111	—	—	60.8	
Ann Arbor	—	116.8	47	e	19	36	? PR <sub>1</sub>	i 29	24	+60	—	e 45.2	62.6	
Leningrad	—	118.2	334	e	15	1	-	34	25	57	[-17]	49.0	57.7	
Pulkovo	—	118.3	334	e	14	59	-	36	25	53	[-13]	46.8	57.5	
Makeyevka	—	118.9	320	e	18	41	[-9]	e 25	41	-	1	56.8	67.2	
Toronto	E.	-2.8	119.6	45	19	18	[-27]	e 25	48	[-4]	4	50.8	66.5	
Ottawa	—	121.6	41	i	18	53	[-4]	25	55	[-5]	5	e 51.8	68.8	
Ithaca	—	121.9	46	—	—	—	—	e 29	14	+11	—	54.8	—	
La Plata	—	122.1	142	i	20	33	? PR <sub>1</sub>	32	4	? SR <sub>1</sub>	—	e 51.8	—	
Cape Town	—	122.1	218	20	57	? PR <sub>1</sub>	—	37	48	? SR <sub>1</sub>	—	—	72.3	
Cheltenham	E.	-2.7	122.5	50	—	—	—	—	—	—	—	e 62.1	65.8	
Upsala	—	123.4	339	—	—	—	—	e 25	48	[-7]	—	e 54.8	63.0	
Fordham	—	124.3	47	e	19	8	[-4]	i 26	36	[-39]	—	37.2	64.7	
La Paz	—	125.4	119	19	1	—	—	[-6]	i 31	49	—	—	58.8	68.9
Harvard	E.	-2.7	125.7	44	—	—	—	—	—	—	—	e 62.9	78.8	
Lemberg	—	128.5	325	e	17	18	[-112]	e 30	54	?	—	e 62.8	66.3	
Sucre	—	128.6	124	i	19	8	[-2]	i 32	46	?	—	62.5	81.2	
Bergen	—	128.8	345	20	48?	? PR <sub>1</sub>	—	—	—	—	—	60.8	—	
Budapest	—	130.6	325	19	16	[-4]	—	21	32	? PR <sub>1</sub>	—	e 42.8	68.5	
Hamburg	—	130.8	337	i	19	10	[-10]	—	—	—	—	e 51.8	66.8	
Belgrade	E.	-2.7	131.2	321	e	19	9	[-12]	e 31	47	?	e 63.4	—	
	N.	-2.7	131.2	321	e	19	6	[-15]	e 31	57	?	e 64.7	71.0	
Dyce	—	131.4	347	i	21	14	? PR <sub>1</sub>	—	—	—	—	53.8	71.1	
Vienna	—	131.6	330	i	19	10	[-12]	29	16	?	—	e 53.8	83.8	
Athens	—	132.1	312	e	19	10	[-13]	—	—	—	—	62.8	71.6	
Cheb	—	132.3	331	19	15	[-9]	—	e 29	11	?	—	e 41.8	66.8	
Graz	—	132.7	328	i	19	24	[-0]	i 31	34	?	—	45.8	69.3	
Edinburgh	—	132.9	346	i	22	39	? PR <sub>1</sub>	i 39	11	? SR <sub>1</sub>	—	53.8	98.8	
Zagreb	—	133.3	326	e	19	16	[-10]	e 31	59	?	—	e 55.8	69.9	
De Bilt	—	133.8	338	19	15	[-12]	—	—	—	—	—	e 57.8	62.1	
Labsch	—	133.9	326	e	19	14	[-14]	—	—	—	—	e 66.4	—	
Stonyhurst	N.	-2.7	134.5	344	e	21	24	? PR <sub>1</sub>	33	42	?	54.8	66.8	
Innsbruck	—	134.7	330	i	19	17	[-12]	i 21	59	? PR <sub>1</sub>	—	e 55.8	73.8	
Hohenheim	—	134.7	334	e	18	28	[-61]	e 32	48	?	—	e 59.6	64.8	

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	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bidston	—	135.1	344	21 38	? PR <sub>1</sub>	—	—	54.1	67.6
Uccle	—	135.1	338	i 19 17	[-13]	—	—	e 57.8	63.0
Ravensburg	—	135.2	333	i 19 20	[-10]	e 31 54	?	e 53.3	67.5
Strasbourg	—	135.5	334	i 19 17	[-14]	—	—	60.8	69.3
Venice	—	135.5	327	i 19 24	[-7]	24 33	? PR <sub>1</sub>	—	—
Zurich	—	136.0	330	i 19 18	[-14]	—	—	—	—
Chur	—	136.0	330	i 19 20	[-12]	—	—	—	—
Kew	—	136.1	343	i 19 42	[+10]	—	—	52.8	67.2
Oxford	—	136.1	343	i 19 1	[-31]	—	—	56.3	67.8
Pompeii	—	137.1	320	e 19 18	[-16]	e 32 18	?	65.8	73.8
Florence	—	137.1	324	e 19 18	[-16]	33 48	?	57.8	72.8
Naples	—	137.2	320	e 19 38	[+4]	e 30 48	?	65.8	85.8
Besançon	—	137.3	333	e 16 19	[-16]	i 22 58	? PR <sub>1</sub>	64.8	—
Paris	—	137.4	338	i 19 22	[-13]	e 22 53	? PR <sub>1</sub>	58.8	63.8
Rocca di Papa	—	137.6	322	e 19 17	[-18]	—	—	69.8	74.8
Moncalieri	—	138.1	330	i 19 26	[-10]	34 4	?	55.3	79.6
Bagnères	—	143.0	334	i 19 31	[-14]	e 22 48?	? PR <sub>1</sub>	62.8	—
Barcelona	—	143.6	331	i 19 31	[-15]	29 25	?	50.5	66.4
Tortosa	N.	144.7	333	i 19 31	[-17]	33 20	?	e 54.8	79.2
Algiers	—	146.5	325	i 19 38	[-13]	30 58	?	e 60.8	73.8
Alicante	—	147.2	331	i 19 32	[-19]	31 58	?	e 63.1	129.4
Toledo	—	147.5	336	e 19 38	[-14]	35 36	?	e 55.8	76.4
Almeria	—	149.2	331	i 19 46	[-8]	e 34 45	?	52.9	98.7
Granada	—	149.6	333	i 19 44	[-11]	—	—	51.1	88.8
Malaga	—	150.3	334	i 19 38	[-18]	e 29 48	? PR <sub>1</sub>	39.2	78.0
Rio Tinto	—	150.3	338	24 48?	[?]	—	—	—	55.8
Lisbon	—	150.3	342	i 19 52	[-4]	—	—	52.5	78.5
San Fernando	—	151.3	336	i 19 46	[-12]	31 30	?	72.8	100.8
Azores	—	152.6	9	86 0	[?]	93 6	?	—	100.2

Additional readings and notes: Riverview P = +5m.43s., PR<sub>1</sub> = +6m.14s. and +7m.47s., PS = +10m.10s., MZ = +13.7m., MN = +14.8m.; T<sub>0</sub> = 17h.58m.38s. Adelaide MN = +18.1m. Amboina i = +6m.47s. Wellington PR<sub>1</sub>N = +7m.52s., PR<sub>1</sub>E = +8m.0s. Manila PR<sub>1</sub> = +10m.33s., PS = +14m.48s., SR<sub>1</sub> = +20m.8s. Nagoya MN = +26.7m. Sumoto MZ = +27.3m. Osaka MN = +26.8m. Kobe MN = +27.4m. Taihoku LE = +16m.26s. = S + 15s. Toyooka MN = +27.8m. Batavia i = +9m.18s. Honolulu eE = +9m.18s., PePE = +9m.39s., ePR<sub>1</sub>N = +11m.4s., ePR<sub>1</sub>E = +11m.18s., ePR<sub>1</sub>N = +12m.0s., ePR<sub>1</sub>E = +12m.18s., PR<sub>1</sub>N = +12m.57s., ePR<sub>1</sub>E = +13m.0s., PeSE = +14m.48s., PS = +16m.42s., ScSE = +19m.6s., SR<sub>1</sub>E = +20m.42s., SR<sub>1</sub>N = +22m.36s. Hong Kong PR<sub>1</sub> = +11m.52s., SR<sub>1</sub> = +20m.57s. Ootomari S = +13m.21s. = PR<sub>1</sub> - 6s., MN = +28.9m. Berkeley eSR<sub>1</sub>N = +29m.34s., eSR<sub>1</sub>E = +29m.49s., and several i and e readings. Lick ePR<sub>1</sub>E? = +16m.17s., MN = +43.8m. Dehra Dun: The readings have been increased by 6 min. Perhaps L = S - 25s. Victoria LN = +36.9m., MN = +40.2m.; T<sub>0</sub> = 17h.58m.32s. Spokane e = +15m.42s., PSN = +24m.30s. Tucson PR<sub>1</sub>E = +17m.13s., iPR<sub>1</sub>E = +21m.10s., PR<sub>1</sub>N = +21m.18s., ScPeSE = +23m.59s. = [S] + 1s., eScPeSN = +24m.6s. = [S] + 8s., ScPePeSN = +24m.28s., ScPePeSE = +24m.31s., ePSN = +25m.48s. = PS + 12s., PSE = +26m.3s., PPSE = +26m.25s., SR<sub>1</sub>N = +30m.0s., SR<sub>1</sub>E? = +31m.0s., SR<sub>1</sub>E = +31m.36s.; T<sub>0</sub> = 17h.58m.50s. and 17h.58m.54s. Tashkent iP = +13m.35s., iS = +18m.12s. = PR<sub>1</sub> + 36s. and +24m.43s., MZ = +56.9m., MN = +59.8m. Denver PE = +13m.22s., PR<sub>1</sub>E = +17m.20s., PR<sub>1</sub>E? = +19m.28s., PR<sub>1</sub>E? = +21m.10s., ScPeS = +24m.4s., PSE = +26m.13s., PPS = +27m.4s. Ekaterinburg iP = +10m.23s., iPR<sub>1</sub> = +18m.11s. = PR<sub>1</sub> - 28s., ePR<sub>1</sub> = +21m.44s., iPS = +27m.19s., iSR<sub>1</sub> = +32m.9s., and +36m.18s., MN = +52.1m., MZ = +60.4m. Baku iPR<sub>1</sub> = +19m.5s., iPS = +28m.23s. St. Louis PR<sub>1</sub>E = +19m.22s., PR<sub>1</sub>N = +22m.2s., PR<sub>1</sub>E = +25m.7s. = [S] - 15s., PR<sub>1</sub>N = +25m.15s. = [S] - 7s., PSEN = +28m.44s. Chicago iPR<sub>1</sub>E = +19m.27s., ePR<sub>1</sub>N = +19m.30s., PR<sub>1</sub>E = +22m.33s., PR<sub>1</sub>N = +24m.36s., ScPeSE = +25m.33s. = [S] + 7s., iPSE = +28m.58s., PSN = +29m.13s., ePPSE = +30m.0s., PPSN = +30m.10s., SR<sub>1</sub>E = +35m.48s., eSR<sub>1</sub>N = +36m.36s., SR<sub>1</sub>E = +38m.54s., SR<sub>1</sub>N = +39m.3s., SR<sub>1</sub>E = +42m.58s., MN = +53.2m. Kucino PR<sub>1</sub> = +19m.42s., PR<sub>1</sub> = +22m.12s., PS = +29m.36s., SR<sub>1</sub> = +35m.42s., MN = +60.0m. Platigorsk ePR<sub>1</sub> = +20m.13s. Ann Arbor ePS = +30m.12s., eSR<sub>1</sub> = +38m.12s., eLN = +50.4m., MN = +54.4m. Leningrad P = +18m.46s. = [P] - 1s., PR<sub>1</sub> = +19m.42s., PR<sub>1</sub> = +22m.22s., PS = +29m.36s., SR<sub>1</sub> = +35m.40s., MN = +65.1m., MZ = +67.6m. Pulkov P = +18m.44s. = [P] - 4s., ePR<sub>1</sub> = +19m.36s., PR<sub>1</sub> = +22m.28s., e = +26m.52s., PS = +29m.36s., SR<sub>1</sub> = +35m.42s., SR<sub>1</sub> = +40m.54s., MN = +58.0m., MZ = +67.6m. Makeyevka e = +20m.1s. = PR<sub>1</sub> - 16s. and +20m.8s. = PR<sub>1</sub> - 9s. MN = +65.0m., MZ = +67.9m. Toronto PE = +17m.52s., PR<sub>1</sub>E = +20m.6s., eE = +27m.7s., LN = +55.6m., MN = +68.7m. Ottawa

Continued on next page.



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PR<sub>1</sub>? = +20m.16s., PS? = +30m.11s., SR<sub>1</sub>? = +36m.52s.; T<sub>0</sub> = 17h.59m.2s.  
 Cheltenham eLN = +55.6m. Upsala MN = +71.6m. Fordham i = +29m.41s. and +32m.9s., e = +30m.19s.; T<sub>0</sub> = 17h.59m.8s. La Paz iPN = +19m.10s., PR<sub>1</sub> = +22m.11s., PR<sub>2</sub> = +26m.6s. = [S] + 6s., PR<sub>3</sub> = +31m.6s., i = +33m.10s., SR<sub>1</sub> = +38m.8s., SR<sub>2</sub> = +41m.46s. Harvard SR<sub>1</sub>N = +38m.48s., SR<sub>2</sub>N = +43m.48s., SR<sub>3</sub>N = +47m.54s., LN = +63.1m., MN = +69.0m. Sucre i = +21m.8s. = PR<sub>1</sub> + 0s., PR<sub>2</sub> = +22m.42s., PR<sub>3</sub> = +28m.23s., PS = +33m.35s., SR<sub>1</sub> = +38m.47s., SR<sub>2</sub> = +42m.20s., SR<sub>3</sub> = +46m.11s. Hamburg iZ = +21m.26s., iEN = +22m.37s., eN = +28m.48s., iE = +38m.46s. = SR<sub>1</sub> - 14s., eL = +57.8m., MN = +67.8m., MZ = +78.6m. Belgrade PR<sub>1</sub> = +22m.35s. and +23m.10s., PR<sub>1</sub>N = +28m.25s. Dyce i = +22m.36s., e = +32m.9s., +33m.10s. and +38m.54s. = SR<sub>1</sub> - 12s. Vienna i = +21m.33s. and +28m.23s., iPN = +22m.38s., iE = +30m.31s. and +38m.21s., iN = +31m.16s. and +34m.50s., S<sub>c</sub>P<sub>c</sub>SP = +34m.31s., PR<sub>1</sub> = +39m.29s. = SR<sub>1</sub> - 19s., SR<sub>2</sub> = +47m.13s. Athens iPR<sub>1</sub> = +21m.36s., iE = +22m.33s., iN = +22m.36s., eE = +43m.58s., LN = +55.3m., MN = +72.5m. Graz iPR<sub>1</sub> = +23m.25s. and iPR<sub>2</sub> = +24m.29s. Zagreb iNE = +19m.26s., e = +21m.25s., iNW = +21m.49s., iPR<sub>1</sub> = +22m.43s., iPR<sub>2</sub>E = +26m.1s., e = +29m.36s. and +51m.8s. De Bilt i = +21m.46s., e = +39m.19s. = SR<sub>1</sub> - 19s., MN = +76.8m., MZ = +88.0m. Laibach ePE = +19m.17s., PR<sub>1</sub> = +22m.40s. and several readings later than eL. Hohenheim ePR<sub>1</sub>E = +22m.44s., ePR<sub>2</sub>N = +22m.48s., ePR<sub>3</sub>E = +25m.54s., eE = +26m.34s., ePPS? = +34m.54s. Bidston +25m.38s. = PR<sub>1</sub> - 2s., +33m.33s. and +39m.58s. = SR<sub>1</sub> + 5s. Ucele i = +21m.55s. and +22m.48s., e = +38m.48s. Ravensburg iPR<sub>1</sub>E = +24m.32s., eS<sub>1</sub>P<sub>1</sub>SE = +30m.0s., eS<sub>2</sub>P<sub>2</sub>P<sub>2</sub>SE = +31m.34s., ePSE = +34m.8s., eE = +36m.56s., eSR<sub>1</sub>E = +40m.50s. Strasbourg i = +22m.58s., e = +35m.10s. MN = +70.5m., MZ = +84.6m. Zurich iP = +22m.0s. = PR<sub>1</sub> - 8s. Kew e = +22m.20s. = PR<sub>1</sub> + 11s., MN = +67.5m. Oxford PR<sub>1</sub> = +22m.7s., MN = +76.2m. Florence ePN = +19m.28s., S = +22m.3s., = PR<sub>1</sub> - 13s., iN = +40m.18s. = SR<sub>1</sub> + 1s. Rocca di Papa iPE = +19m.26s., iPN = +19m.29s., E = +22m.59s. = PR<sub>1</sub> + 40s., N = +23m.3s. Barcelona MN = +76.5m. Alicante MN = +80.8m. Toledo iPZ = +19m.41s., iPEN = +19m.50s., S = +42m.8s. = SR<sub>1</sub> - 14s., MNW = +80.8m. Almeria PR<sub>1</sub> = +22m.39s., PR<sub>2</sub> = +26m.53s., SR<sub>1</sub> = +38m.53s., SR<sub>2</sub> = +42m.58s. = SR<sub>1</sub> + 16s., MN = +98.1m. Granada PR<sub>1</sub> = +22m.44s., PR<sub>2</sub> = +25m.41s., PR<sub>3</sub> = +28m.51s., PS = +33m.41s., PPS = +35m.25s., SR<sub>1</sub> = +41m.29s., SR<sub>2</sub> = +46m.41s. Rio Tinto readings have been increased by 1h. San Fernando MN = +94.3m.

Note to shock of Sept. 16d. 17h. 59m. 12s.

The following table gives the residuals for Δ for the principal stations, in the observed distances of this shock are compared with those calculated for the epicentre 10° 7S. 158° 5E. of 1924 May 8d. :-

No. of station.	Az.	Equation.	O <sub>1</sub>	O <sub>2</sub>	C <sub>2</sub>	O <sub>2</sub> - C <sub>2</sub>
4	40	+ .64x + .77y	-3.4	-0.7	-0.8	+0.1
1	160	+ .34x - .94y	-1.8	-0.3	-0.4	+0.1
2	205	- .42x - .91y	-0.6	+0.5	+0.5	0.0
4	278	- .99x + .03y	-0.7	+1.7	+1.2	+0.5
3	308	- .79x + .62y	-1.2	+1.0	+1.0	0.0
9	335	- .42x + .91y	-2.1	+0.3	+0.5	-0.2

The Column O<sub>1</sub> gives these residuals uncorrected for abnormal focal depth, and O<sub>2</sub> gives the same after a correction for focal depth 0.02 below normal has been applied. Solving the equations with O<sub>2</sub> we obtain x = -1° 2 y = 0° 0, giving C<sub>2</sub> and then O<sub>2</sub> - C<sub>2</sub>.

The new origin is therefore 10° 7S. 159° 7E., and it seems probable that the Epicentre on 1924 May 8d. should be corrected to agree with this much more complete solution.

Sept. 16d. Readings also at 1h. (Nagasaki), 3h. (Taihoku), 5h. (Manila), 6h. (Ekaterinburg, Tashkent, and near Athens), 7h. (Tashkent), 8h. (Ekaterinburg), 10h. (near Nagasaki), 13h. (Moncalieri), 14h. (near Nagasaki), 16h. (Batavia), 17h. (Tokyo), 18h. (Batavia, Malabar, Tashkent, and Taihoku), 19h. (Taihoku and La Plata), 20h. (Tokyo, Nagoya, and near Misusawa), 21h. (La Paz), 22h. (Nagasaki and Sucre (2) ), 23h. (Spokane (2) ).

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Sept. 17d. 1h. 45m. 50s. (I) }  
 2h. 54m. 0s. (II) } Epicentre 10°·7S. 159°·7E. (as on Sept. 16d.).  
 5h. 41m. 50s. (III) }

A = -·922, B = +·341, C = -·186; D = +·347, E = +·938;  
 G = +·174, H = -·064, K = -·983.

The depth of focus +0·020 is retained.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.		M.	
				m.	s.	s.	m.	s.	s.	m.	s.	m.	s.		
I Riverview	-1·0	24·4	197	e 4	49	-32	e 9	46	+13	e 13	0	16·7	16·7		
II	-1·0	24·4	197	e 5	29	+ 8	e 9	43	+10	e 13	0	16·6	16·6		
III	-1·0	24·4	197	—	—	—	e 9	34	+ 1	e 12	6	14·5	14·5		
I Melbourne	-1·4	30·2	205	e 8	34?	?	—	—	—	—	—	e 18·9	30·4		
II	-1·4	30·2	205	—	—	—	—	—	—	—	—	14·2	17·9		
III	-1·4	30·9	217	e 6	10?	-13	11	21	- 5	—	—	15·2	18·5		
I Adelaide	-1·4	30·9	217	5	10	-73	11	20	- 6	—	—	15·7	18·2		
II	-1·4	30·9	217	—	—	—	—	—	—	—	—	18·2	—		
III	-1·5	33·4	180	—	—	—	—	—	—	—	—	18·0	—		
I Christchurch	-1·6	34·7	164	14	52	?SR <sub>1</sub>	—	—	—	—	—	18·9	20·9		
II	-1·6	34·7	164	14	54	?SR <sub>2</sub>	17	6	?L	—	—	19·2	20·5		
III	-1·9	46·0	305	e 6	10?	-13?	—	—	—	—	—	—	—		
I Manila	-1·9	46·0	305	e 8	0?	-2?	—	—	—	—	—	—	—		
II	-1·9	46·0	305	e 9	16	+ 8	e 16	22	+ 1	—	—	21·6	28·2		
III	-2·2	52·4	52	8	35	-33	e 16	30	+ 9	—	—	21·8	25·0		
I Honolulu	-2·2	52·4	52	—	—	—	e 16	27	+ 6	—	—	e 21·7	28·0		
II	-2·2	52·4	52	—	—	—	—	—	—	—	—	—	—		
III	-2·2	52·4	52	—	—	—	—	—	—	—	—	—	—		
I Irkutsk	-2·7	78·8	330	11	54	- 2	21	46	+ 8	—	—	e 39·2	—		
II	-2·7	78·8	330	e 11	54	- 2	21	42	+ 4	—	—	e 37·0	—		
III	-2·7	85·1	289	22	48	?S	(22 48)	—	- 2	—	—	—	—		
I Hyderabad	-2·8	89·6	40	23	22	?S	(23 22)	—	[ - 4]	—	—	41·6	48·6		
II	-2·8	89·6	40	—	—	—	23	17	[ - 9]	—	—	40·3	48·6		
III	-2·8	89·6	40	—	—	—	—	—	—	—	—	43·4	48·8		
I Bombay	-2·8	90·6	289	—	—	—	e 23	10?	[ - 22]	—	—	—	—		
II	-2·9	97·3	311	e 13	25	-15	24	4	[ - 5]	—	—	e 48·2	58·6		
III	-2·9	97·3	311	i 13	25	-15	24	0	[ - 9]	—	—	e 48·0	58·8		
I Tashkent	-2·9	97·3	311	i 13	23	-17	23	55	[ - 14]	—	—	52·2	77·2		
II	-2·9	97·3	311	e 18	4	PR <sub>1</sub>	24	33	[ - 9]	—	—	48·2	61·0		
III	—	103·9	327	e 20	14	?	—	—	—	—	—	48·5	60·0		
I Ekaterinburg	—	103·9	327	e 19	39	?PR <sub>1</sub>	e 29	5	+80	—	—	57·2	—		
II	—	103·9	327	e 19	39	—	—	—	—	—	—	e 57·2	—		
III	—	103·9	327	—	—	—	—	—	—	—	—	—	—		
I Chicago	—	114·0	48	—	—	—	—	—	—	—	—	—	71·7		
II	—	114·0	48	—	—	—	—	—	—	—	—	—	71·5		
III	—	118·2	334	—	—	—	—	—	—	—	—	57·9	73·2		
I Leningrad	—	118·2	334	—	—	—	—	—	—	—	—	55·5	70·8		
II	—	118·3	334	—	—	—	e 25	34	[ - 6]	—	—	55·2	70·8		
III	—	118·3	334	—	—	—	—	—	—	—	—	53·0	70·7		
I Pulkovo	—	118·3	334	—	—	—	—	—	—	—	—	58·2	65·0		
II	—	118·9	320	—	—	—	e 33	10	?	—	—	—	68·0		
III	—	118·9	320	—	—	—	—	—	—	—	—	—	68·0		
I Toronto	—	119·6	45	—	—	—	—	—	—	—	—	59·4	68·0		
II	—	121·6	41	—	—	—	e 24	28	?PR <sub>2</sub>	—	—	e 58·2	—		
III	—	121·6	41	—	—	—	—	—	—	—	—	66·0	—		
I Cheb	—	132·3	331	—	—	—	—	—	—	—	—	e 63·2	73·2		
II	—	132·3	331	—	—	—	—	—	—	—	—	e 64·0	73·0		
III	—	133·8	338	—	—	—	—	—	—	—	—	e 61·2	—		
I De Bilt	—	133·8	338	—	—	—	—	—	—	—	—	e 61·0	—		
II	—	135·1	338	—	—	—	—	—	—	—	—	e 60·2	—		
III	—	135·1	338	—	—	—	—	—	—	—	—	e 58·0	—		
I Kew	—	136·1	343	—	—	—	—	—	—	—	—	74·2	—		
II	—	138·1	330	—	—	—	—	—	—	—	—	73·4	—		
III	—	138·1	330	—	—	—	—	—	—	—	—	77·5	—		
I Granada	—	149·6	333	e 20	57	[+62]	—	—	—	—	—	74·6	83·4		
II	—	149·6	333	—	—	—	—	—	—	—	—	73·0	110·0		
III	—	151·3	336	—	—	—	—	—	—	—	—	—	106·0		

Additional readings: Riverview I MN = +15·4m., II eS = +10m.7s., MN = +14·4m., III MN = +14·3m. Adelaide I e = +12m.58s. =SR<sub>1</sub>+6s. MN = +19·1m., II MN = +20·4m. Tashkent I e = +10m.16s., +15m.15s. +16m.5s., and +17m.16s. =PR<sub>1</sub>-20s., MN = +54·0m., MZ = +56·7m., II

Continued on next page.

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e = +17m.24s. = PR<sub>1</sub>-12s., MN = +51.0m., III e = +29m.40s., MZ = +61.2m. Ekaterinburg I MN = +58.0m. Pulkovo I e = +35m.44s. = SR<sub>1</sub>-41s., MN = +67.6m., MZ = +70.9m., II MN = +65.4m., MZ = 70.6m. Makeyevka II MN = +62.8m. Ottawa I eE = +30m.22s. and +37m.34s. = SR<sub>1</sub>+28s. Granada I i = +24m.3s. = PR<sub>1</sub>-33s. and +24m.49s. = PR<sub>1</sub>+13s. San Fernando II MN = +108.0m.

Sept. 17d. 13h. 18m. 20s. Epicentre 41°7N. 8°5E. (as on 1924 Jan. 24d.).

A = +.738, B = +.110, C = +.665; D = +.148, E = -.989;  
G = +.658, H = +.098, K = -.747.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	in.
Rocca di Papa	E.	3.1	87	1 46	+57	2 44	+78	—	5.5
	N.	3.1	87	1 51	+62	2 37	+71	—	—
Moncalieri		3.3	352	e 0 56	+ 4	—	—	—	—
Pompeii		4.6	99	e 1 8	- 3	—	—	—	—
Venice		4.7	35	5 38	?	—	—	—	—
Zagreb		6.8	49	—	—	e 3 13	+ 8	—	—
Uccle		9.6	344	—	—	—	—	—	8.8
De Bilt		10.6	349	—	—	—	—	e 10.7	—
Baku		31.0	78	—	—	e 12 10	+19	—	—

Additional readings and notes: Rocca di Papa eE = +3m.14s. +4m.4s., e = +3m.44s., i = +5m.18s. Moncalieri gives an earlier reading at e = 13h.13m.0s.

Sept. 17d. 23h. 14m. 36s. Epicentre 49°0N. 124°0W. (as on 1921 June 25d.).

A = -.367, B = -.544, C = +.755; D = -.829, E = +.559;  
G = -.422, H = -.626, K = -.656.

Uncertain. Some of the stations suggest a T, earlier by 2 min.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	0.8	141	—	—	—	—	1.6	4.3
	N.	0.8	141	—	—	—	—	1.5	6.3
Spokane		4.6	105	10 24	-47	e 2 24	+18	4.4	—
Sitka		10.5	324	—	—	e 6 24	+101	8.5	9.5
Berkeley		11.2	173	e 3 24?	+37	e 4 30	-29	1 6.2	—
Lick	N.	12.1	171	2 36?	-24	e 4 52	-29	e 6.0	—
Tucson	E.	19.4	145	4 35	+ 1	e 8 16	+ 6	e 9.3	12.7
	N.	19.4	145	4 35	+ 1	8 11	+ 1	e 9.8	12.4
Chicago	E.	26.3	92	—	—	11 16	+48	15.2	20.7
Ann Arbor		28.6	88	—	—	—	—	e 15.6	20.2
Toronto	E.	30.8	82	—	—	e 12 41	+53	19.6	21.8
Ottawa		32.5	78	e 6 28	-25	i 13 12	+56	e 19.8	23.1
Ithaca		33.2	82	—	—	—	—	20.4	—
Ste. Anne		35.2	73	e 7 4	-11	113 59	+61	e 21.4	27.4
Fordham		35.7	86	e 9 7	?PR <sub>1</sub>	e 13 52	+46	e 17.6	23.5
Harvard	N.	36.8	80	—	—	—	—	e 22.1	24.6
Honolulu	E.	38.6	236	—	—	(13 47)	+ 1	13.8	—
Dyce		64.1	30	—	—	—	—	28.4	41.9
Edinburgh		64.1	33	—	—	—	—	e 27.4	—
Oxford		68.1	35	—	—	—	—	39.4	43.9
Kew		68.7	35	—	—	—	—	e 39.4	—
Pulkovo		69.3	13	—	—	e 21 20	[+13]	40.4	46.6
De Bilt		70.1	29	—	—	e 21 36	[+24]	e 32.4	46.1
Uccle		70.9	31	—	—	—	—	e 32.4	—
Paris		71.9	34	—	—	—	—	e 45.4	—
Strasbourg		74.0	30	—	—	—	—	45.4	—
Ekaterinburg		74.1	358	(10 3)	-100	(20 3)	-72	28.9	—
Cheb		74.1	96	e 11 41	- 2	—	—	e 32.4	51.4
Kucino		74.2	10	—	—	e 21 30	+14	33.3	—
Moncalieri		77.0	32	e 8 42	?	—	—	34.9	—
Tortosa	N.	77.8	40	—	—	—	—	e 46.4	—
San Fernando	E.	78.4	47	—	—	—	—	—	49.4
Granada		79.0	45	e 11 56	-17	122 31	+19	e 40.6	50.2
Makeyevka		81.8	12	—	—	e 23 24?	+40	e 35.4	48.6
Tashkent		89.0	350	e 17 17	?PR <sub>1</sub>	—	—	e 47.3	52.2
Baku		90.5	5	—	—	e 25 58	+99	43.4	57.9

For Notes see next page.

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NOTES TO SEPT. 17d. 23h. 14m. 36s.

Additional readings and notes: Spokane  $i = +1m.24s.$ ; all readings given only to nearest minute. Sitka  $eSN = +6m.28s.$ ,  $eE = +8m.6s.$  Berkeley and Lick give many other readings all of which are given only as e or as i. Tucson  $PR_1N = +5m.0s.$ ; T, =23h.14m.37s. and 23h.14m.42s. Chicago  $SN = +11m.18s. = SR_1 - 17s.$ ,  $SR_1E = +13m.24s.$ ,  $MN = +17.4m.$  Ann Arbor  $eN = +16m.12s.$ ,  $MN = +20.5m.$  Toronto  $PR_1E = +8m.18s.$  Ottawa  $PR_1E = +8m.4s.$ ,  $PR_1E = +8m.32s.$ ,  $SR_1E = +17m.24s.$ ,  $MN = +23.4m.$  Honolulu  $eE = +12m.2s.$  and  $+16m.0s. = SR_1 - 16s.$  Pulkovo  $e = +31m.19s.$ ,  $MZ = +46.0m.$  Kucino  $e = +27m.36s.$  De Bilt  $MN = +45.6m.$ ,  $MZ = +46.7m.$  Ekaterinburg readings have been increased by 10m. San Fernando  $MN = +48.4m.$  Makeyevka  $e = +29m.24s.?$ ,  $MN = +52.7m.$  Tashkent  $e = +18m.30s. = PR_1 - 44s.$ ,  $+21m.1s. = PR_1 + 29s.$ ,  $+24m.30s. = S + 27s.$ ,  $+24m.59s. = PS + 4s.$ ,  $+25m.54s.$ ,  $+30m.49s. = SR_1 + 31s.$ ,  $+34m.30s. = SR_2 + 5s.$ ,  $+38m.47s.$  and  $+45m.30s.$ ,  $i = +38m.20s.$ ,  $MZ = +55.6m.$  Baku  $e = +39m.10s.$ ,  $MN = +53.4m.$ ,  $MZ = +65.6m.$

Sept. 17d. Readings also at 0h. (Ekaterinburg, Tashkent, Spokane (2)), 1h. (Spokane), 3h. (Granada), 4h. (Tacubaya), 6h. (near Irkutsk), 8h. (Melbourne, Taihoku, and Tashkent), 10h. (Tacubaya and Vera Cruz), 11h. (Graz, Zagreb, and Tashkent), 12h. (Agana), 13h. (Athens, Batavia, and Malabar), 16h. (Taihoku), 17h. (Tashkent), 18h. (near Athens), 20h. (Sucre), 23h. (Irkutsk, Ottawa, and Victoria).

Sept. 18d. Readings at 0h. (Victoria (2), Toronto, Ottawa (2), Toledo, and near Athens), 1h. (Victoria, Ottawa, Toronto, Chicago, Tashkent, and Ekaterinburg), 2h. (Victoria, Ottawa, De Bilt, Uccle, Granada, and Rio Tinto), 3h. (Taihoku, La Paz, and Sucre), 4h. (Tortosa), 9h. (Ekaterinburg), 10h. (Venice, Zagreb, and near Athens), 16h. (Baku and Batavia), 20h. (Tashkent), 22h. (Taihoku), 23h. (Leningrad and Zi-ka-wei).

Sept. 19d. 1h. 3m. 42s. Epicentre  $35^{\circ}5N. 22^{\circ}0E.$

A = +.755, B = +.305, C = +.581; D = +.375, E = -.927;  
G = +.538, H = +.218, K = -.814.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Athens	2.8	29	10 55	+11	—	—	11.4	1.9
Pompeii	7.9	314	e1 42	-18	e 3 43	+ 9	—	7.3
Naples	8.1	313	e2 8	+ 5	e4 48	!L	(e 4.8)	8.3
Mostar	8.4	339	2 12	+ 5	13 42	- 5	(4.3)	—
Belgrade	9.4	353	e2 20	- 2	14 38	+25	—	5.7
Sebenico	9.4	332	e2 20	- 2	—	—	—	5.9
Rocca di Papa	E. 9.6	314	12 30	+ 6	14 56	+38	16.2	9.1
	N. 9.6	314	e2 28	+ 4	15 4	+46	—	—
Helwan	9.7	123	2 36	+10	4 25	+ 4	—	11.0
Florence	N. 11.7	318	2 48	- 7	5 48	!L	(5.8)	7.8
Lai bach	12.0	334	e2 54	- 5	e5 33	+14	16.0	—
Budapest	12.2	351	3 5	+ 3	e5 18?	- 6	e 6.3	7.9
Venice	12.3	326	3 18	+15	5 16	-10	—	7.2
Graz	12.5	339	e3 1	- 5	e5 46	+14	6.2	7.4
Vienna	13.5	344	e3 16	- 4	7 6	+70	17.7	9.1
Innsbruck	N.E. 14.2	330	e3 54	+25	15 55	-18	e 8.9	12.1
Lemberg	14.4	5	e3 36	+ 4	e 6 36	+18	—	10.5
Moncalieri	14.4	315	3 27	- 5	6 28	+10	8.3	14.1
Chur	14.7	324	13 40	+ 5	6 5	-20	—	—
Algiers	15.3	281	3 53	+10	e 6 48	+ 9	13.0	21.3
Ravensburg	E. 15.4	327	e3 44	0	e 6 46	+ 5	e 9.1	9.5
Zurich	15.5	324	e3 46	0	e 6 33	-11	—	—
Hohenheim	N. 16.2	329	e3 58	+ 3	e 7 8	+ 6	e 9.2	9.8
Cheb	16.2	337	e3 56	+ 1	17 0	0	e 9.2	9.5

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Barcelona	16.6	297	14 2	+ 2	e 7 38	+29	9.9	14.6
Besançon	16.7	319	e 4 11	+10	—	—	9.3	11.3
Strasbourg	16.8	326	4 6	+ 4	17 27	+14	—	10.4
Makeyevka	17.2	38	14 9	+ 2	17 23	+ 1	9.3	11.2
Tortosa	17.6	294	4 18	+ 6	e 7 36	+ 5	e 10.3	16.2
Alicante	18.2	286	5 22	+63	8 46	+62	13.4	18.0
Piatigorsk	18.2	56	e 6 5	+106	—	—	19.5	12.3
Paris	19.5	319	14 39	+ 4	18 16	+ 3	11.3	13.3
Almeria	19.6	281	4 30	- 6	8 21	+ 6	10.1	12.2
Uccle	19.9	326	14 41	+ 1	18 17	- 4	e 10.3	11.8
Hamburg	19.9	339	e 4 41	+ 1	e 7 54	-27	11.3	16.2
De Bilt	20.5	329	4 49	+ 2	8 31	- 3	e 10.3	12.1
Granada	20.6	282	14 56	+ 8	18 56	+20	11.1	15.9
Toledo	21.0	290	4 58	+ 5	18 47	+ 3	e 10.6	16.2
Malaga	21.3	281	e 4 57	0	e 8 51	+ 1	e 12.8	—
Baku	22.4	69	15 12	+ 2	19 24	+11	12.3	15.2
Kew	22.5	322	e 5 7	- 4	19 8	- 7	11.3	13.4
San Fernando	22.8	281	5 15	0	9 20	- 1	15.8	17.8
Rio Tinto	23.0	284	5 18?	+ 1	—	—	—	22.3
Oxford	23.2	322	15 18	- 1	19 20	- 9	12.8	13.9
West Bromwich	24.0	323	5 25	- 3	9 36	- 8	—	—
Upsala	24.5	355	5 29	- 4	9 42	-12	e 12.3	15.9
Pulkovo	24.8	10	e 5 29	- 7	19 44	-15	11.3	13.9
Stonyhurst	25.0	325	5 36	- 2	19 58	- 5	14.3	16.3
Bidston	25.1	323	5 28	-11	9 52	-13	12.8	14.6
Leningrad	25.1	10	e 5 30	- 9	19 46	-19	11.2	11.6
Dyce	27.1	331	5 52	- 7	10 27	-16	—	16.8
Bergen	27.1	342	e 5 48	-11	—	—	16.3	—
Tashkent	37.0	67	7 24	- 6	113 8	-16	e 19.7	25.4
Simla	45.7	80	—	—	e 15 6	-18	—	—
Bombay	47.6	97	e 9 18?	+27	—	—	—	—
Hyderabad	52.9	96	8 53	-32	16 58	+ 3	—	—
Cape Town	69.5	184	—	—	—	—	—	38.8
Ottawa	70.4	314	—	—	—	—	e 34.3	—
Victoria	90.6	339	24 10	?S	(24 10)	-10	46.0	51.8
Sucre	98.7	253	—	—	—	—	50.3	60.0
La Paz	99.6	259	—	—	—	—	56.3	61.9

Additional readings: Athens MN = +2.2m. Mostar P = +2m.57s., S = 4m.19s. = L perhaps. Belgrade ePN = +2m.21s., i = +3m.21s. and +4m.33s., iEN = +3m.57s., iSR<sub>1</sub>E = +5m.19s., iSR<sub>1</sub>N = +5m.20s., MN = +6.0m.; epicentre 36° 5'N. 21° 0'E. Sebenico PR<sub>1</sub> = +4m.7s. = S - 6s., iSR<sub>1</sub> = +4m.33s. Lalbach e = +3m.4s. = PR<sub>1</sub>+0s., +3m.10s., +3m.51s. and +4m.2s., PR<sub>1</sub>E = +4m.55s., PR<sub>1</sub>N = +4m.56s. Budapest MN = +11.0m. Venice ePN = +3m.28s., ePE = +3m.49s., S = +5m.0s. Vienna iZ = +4m.29s., +4m.51s., and +6m.27s. = SR<sub>1</sub>+20s., iEN = +5m.36s. Ravensburg ePR<sub>1</sub>E = +5m.11s., eS = +8m.36s.; true S is given as eE. Hohenheim eSN? = +8m.16s.; true S is given as eN. Barcelona MN = +15.2m. Strasbourg e = +7m.6s. and +7m.12s., i = +7m.42s. = SR<sub>1</sub>+8s., MN = +10.3m., MZ = +12.8m. Makeyevka PR<sub>1</sub> = +4m.27s., SR<sub>1</sub> = +8m.5s., MZ = +12.1m., MN = +13.7m.; epicentre 35° 49'N. 21° 47'E. Tortosa ME = +17.9m. Alicante MN = +17.8m. Piatigorsk: If we decrease the readings by 2min. L would suit S. Uccle i = +8m.26s. Hamburg +8m.30s., +8m.36s., and +8m.42s., eEN = +10m.42s., MN = +14.4m., MZ = +15.7m. De Bilt eSNZ = +8m.37s., MZ = +13.4m. Granada i = +5m.15s. = PR<sub>1</sub>+7s., +6m.37s., +7m.46s., +8m.47s., +9m.29s. = SR<sub>1</sub>+5s., and +10m.6s., MN = +18.5m. Baku MN = +14.2m., MZ = +16.7m. San Fernando MN = +16.3m. Pulkovo iP = +5m.31s., PR<sub>1</sub> = +6m.6s., SR<sub>1</sub> = +10m.18s., SR<sub>2</sub> = +10m.48s. = SR<sub>1</sub>-10s., MN = +16.0m., MZ = +17.5m.; epicentre 37° 12'N. 20° 45'E. Leningrad iP = +5m.33s., iPR<sub>1</sub> = +6m.19s., iSR<sub>1</sub> = +10m.50s., MZ = +12.4m., MN = +41.4m.; epicentre 36° 10'N. 22° 7'E. Tashkent e = +8m.47s. = PR<sub>1</sub>+1s., +8m.58s. = PR<sub>2</sub>-13s., +10m.9s., +15m.37s. = SR<sub>1</sub>-6s., +15m.50s., +16m.23s. = SR<sub>2</sub>+2s., and +18m.58s., MN = +22.6m., MZ = +26.2m.; epicentre 38° 1'N. 22° 7'E. Simla eE = +18m.48s. = SR<sub>1</sub>+4s. Ottawa eN? = +28m.18s. = SR<sub>2</sub>-25s., eE = +31m.18s. Victoria LN = +47.3m.

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Sept. 19d. 14h. 37m. 48s. Epicentre 35°·5N. 22°·0E. (as at 1h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	2·8	29	1 7	+23	—	—	11·6	1·8
Pompeii	7·9	314	e 3 36	IS	(e 3 36)	+ 2	—	—
Naples	8·1	313	e 3 42	IS	(e 3 42)	+ 2	—	—
Rocca di Papa	9·6	314	e 2 20	- 4	—	—	—	6·5
Zagreb	11·3	338	4 35	IS	(4 35)	-27	(e 6·1)	—
Budapest	12·2	351	—	—	—	—	e 6·2	—
Venice	12·3	326	5 54	IS	(5 54)	+28	—	—
Moncalieri	14·4	315	—	—	—	—	—	8·8
Strasbourg	16·8	326	—	—	—	—	—	9·2
Uccle	19·9	326	—	—	—	—	—	e 11·0
De Bilt	20·5	329	e 4 49	+ 2	e 8 23	-11	e 11·2	—
Baku	22·4	69	—	—	—	—	—	e 12·2
Pulkovo	24·8	10	15 36	0	—	—	—	12·2
Leningrad	25·1	10	—	—	—	—	—	e 14·2
Tashkent	37·0	67	—	—	—	—	—	e 22·2

Additional readings: Rocca di Papa ePN = +2m.35s., PR<sub>1</sub>N = +3m.29s., PR<sub>1</sub>E = +3m.40s., PR<sub>2</sub>N = +6m.24s., PR<sub>2</sub>E = +6m.44s. Zagreb e = +4m.47s. and +5m.52s., i = +7m.2s.; S is given as P and L as S. Venice reading is given for 13h. Moncalieri e = 14h.30m.32s.

Sept. 19d. 20h. 7m. 0s. (I) } Epicentre 42°·0S. 130°·0E. (as on Sept. 9d.).  
20h. 8m. 20s. (II) }

A = -·478, B = +·569, C = -·669; D = +·766, E = +·643;  
G = +·430, H = -·513, K = -·743.

To the difficulties already noticed on Sept. 9 is here added that of separating out the local shock in Europe which follows at 20h. 22m. The residuals in round brackets refer to PR<sub>1</sub> or SR<sub>1</sub>.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Riverview	18·5	72	—	—	e 7 54	+ 3	—	13·3
II	18·5	72	—	—	e 7 58	+ 7	—	12·9
I Irkutsk	96·9	345	e 13 41	-13	e 17 53	PR <sub>1</sub>	—	—
I Tashkent	99·7	318	1 21 50	(+217)	e 34 54	(+140)	—	—
II	99·7	318	e 21 56	(+223)	e 34 50	(+136)	—	—
I Baku	109·6	307	—	—	e 34 10	(-28)	63·5	—
I Makeyevka	121·0	309	1 19 27	[+32]	—	—	—	—
I Pulkovo	129·9	320	1 19 16	[- 2]	—	—	—	—
I Leningrad	130·0	320	e 19 18	0	—	—	—	—
I Zagreb	133·7	298	e 19 54	[+28]	—	—	—	—
I Vienna	134·2	301	e 19 41	[+13]	—	—	—	—
I Rocca di Papa	134·4	291	e 19 54	[+25]	—	—	—	—
I Venice	136·0	296	19 41	[+ 9]	—	—	—	—
I Innsbruck N.W.	137·2	299	1 19 54	[+20]	—	—	—	—
I Zurich	138·1	297	1 19 47	[+11]	—	—	—	—
I Chur	138·3	297	1 19 50	[+14]	—	—	—	—
I Moncalieri	138·9	293	e 19 40	[+ 3]	—	—	29·9	—
I Hamburg	139·4	307	1 19 37	[- 1]	—	—	—	—
I Strasbourg	139·8	300	1 19 56	[+18]	—	—	—	—
I De Bilt	142·1	305	1 19 41	[- 2]	—	—	—	—
II	142·1	305	1 19 38	[- 5]	—	—	—	—
I Uccle	142·4	302	19 43	0	—	—	—	—
I Paris	143·3	299	1 19 46	[+ 1]	—	—	—	—
II	143·3	299	1 19 46	[+ 1]	—	—	—	—
II Granada	144·4	275	19 39	[- 8]	—	—	—	—
II	144·4	275	19 24	[-23]	—	—	—	—
I Kew	145·4	303	19 44	[- 4]	—	—	—	—

Additional readings and notes: Riverview I S given as e simply followed by a reading at +8m.14s. = SR<sub>1</sub>-4s., II S given as e(S1) Irkutsk I i = +29m.47s. Tashkent residuals are those for PR<sub>1</sub> and SR<sub>1</sub>. Baku I e = +39m.35s. = SR<sub>1</sub>-17s.; S residual is that of SR<sub>1</sub>. Makeyevka, Pulkovo, and Leningrad observations may belong to the European shock. Zagreb e = +20m.1s., +20m.10s., +20m.20s.; all the readings have been diminished by 1h. Vienna iPZ = +19m.49s. Rocca di Papa ePEN = +19m.56s. Strasbourg i = +20m.0s., e = +20m.5s., +20m.13s. Uccle i = +19m.47s.

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For the European shock there are several alternatives, all of which involve difficulties in respect of one or more observatories.

FIRST ALTERNATIVE.

Sept. 19d. 20h. 22m. 0s. Epicentre 72°·0N. 2°·8W. (as on 1919 Sept. 12d.)

A = +·309, B = -·015, C = +·951; D = -·049, E = -·999.  
G = +·950, H = -·046, K = -·309.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Leningrad	17·6	118	e 4 18	+ 6	e 7 49	+18	e 12·2
Pulkovo	17·8	118	i 4 16	+ 1	i 7 50	+14	9·5
Makeyevka	30·3	120	i 4 27	-124	e 8 5	-214	11·0
Baku	40·7	111	e 6 53	-68	—	—	—
Tashkent	45·7	91	e 8 16	-22	e 15 28	+ 4	—
Irkutsk	45·9	56	—	—	i 14 47	-40	—

Here Makeyevka is quite anomalous; both P and S suggest that  $\Delta$  should be about 19° instead of 30°. But it is difficult to see how this adjustment of the epicentre can be made without entirely upsetting at least one other station.

SECOND ALTERNATIVE.

Sept. 19d. 20h. 22m. 10s. Epicentre 47°·0N. 10°·0E. (as on 1924 Nov. 7d.)

A = +·672, B = +·118, C = +·731; D = +·174, E = -·985;  
G = +·720, H = +·127, K = -·682.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Pulkovo	17·5	36	i 4 6	- 5	i 7 40	+11	9·3
Leningrad	17·6	36	e 4 8	- 4	e 7 38	+ 8	e 12·0
Makeyevka	18·9	75	i 4 17	-11	e 7 55	- 5	10·8
Baku	29·3	90	e 6 43	+22	—	—	—
Tashkent	41·9	75	e 8 6	- 4	e 15 18	+44	—
Irkutsk	56·9	47	—	—	i 14 37	-188	—

If we could assume Irkutsk 3min. in error this solution would satisfy the requirements of these particular observations; but this position of the epicentre is close to Chur, Zurich, and Innsbruck, and near many other European stations which fail to record anything at the times near 20h. 23m., which would suit them. There is, of course, a neighbourhood to the east of Pulkovo and Makeyevka which preserves the near equality of  $\Delta$  suggested by these observations, viz., 59°·0N. 65°·0E., not far from Ekaterinburg. It is particularly unfortunate that the Ekaterinburg seismographs were out of action from Sept. 18-22; observations there would probably have settled the matter. No previous epicentre near this position has been recorded. If we may adopt it for trial, we have:—

THIRD ALTERNATIVE.

Sept. 19d. 20h. 22m. 10s. Epicentre 59°·0N. 65°·0E.

A = +·218, B = +·467, C = +·857; D = +·906, E = -·423;  
G = +·362, H = +·777, K = -·515.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Pulkovo	17·5	288	14 6	- 5	17 40	+11	9·3
Leningrad	17·5	288	e 4 8	- 3	e 7 39	+10	e 12·0
Tashkent	17·9	169	—	—	e 8 6	+28	e 15·3
Makeyevka	19·2	247	14 17	-14	e 7 55	-11	10·8
Baku	20·9	214	—	—	e 6 43	-119	—
Irkutsk	22·8	90	—	—	i 14 37	+316	—

Three observatories (counting Pulkovo and Leningrad as one) are in fair accord if we regard the Tashkent 8m.6s. as S rather than P. It also seems probable that the Baku times are about 2min. too small, as this suits the antipodal shock also. But that Irkutsk times should be 5min. too large is not supported by the antipodal shock observations; nor can either of them be transferred to this shock.

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Sept. 19d. Readings also at 0h. (Zi-ka-wei and Taihoku), 3h. (Tashkent and near Athens (2)), 4h. (near Athens (2)), 5h. (Nagasaki), 6h. (Venice and near Athens (2)), 8h. (near Athens), 9h. (Tashkent), 13h. (Sucre, La Paz, and near Nagasaki), 14h. (near Athens), 15h. (Sucre), 19h. (Budapest), 20h. (Mostar), 21h. (Amboina), 22h. (Sucre and Tacubaya).

Sept. 20d. Readings at 12h. (Nagasaki), 13h. (Nagasaki, Rocca di Papa, and Loyola), 17h. and 18h. (near Athens).

Sept. 21d. 5h. 34m. 6s. Epicentre 34°0S. 57°0E. (as on Sept. 2d.).

A = +.452, B = +.695, C = -.559; D = +.839, E = -.545;  
G = -.305, H = -.469, K = -.829.

	$\Delta$	Az.	P.	O-C	S.	O-C	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hyderabad	55.4	25	—	—	—	—	—	30.4
Baku	74.7	355	e 11 50	+ 3	e 21 30	+ 8	35.9	—
Tashkent	76.1	10	e 12 14	+18	21 32	- 6	35.7	39.5
Rocca di Papa	85.9	329	e 12 49	- 4	—	—	e 25.0	26.1
Granada	90.8	317	—	—	—	—	e 46.6	55.5
San Fernando	E. 91.8	315	—	—	—	—	—	58.9
Ottawa	142.5	302	—	—	—	—	e 76.9	—

Additional readings: Tashkent e = +12m.22s. and +32m.6s. = SR, -4s.,  
MN = +44.8m. Rocca di Papa eZ = +13m.29s. and +18m.59s. = PR, +16s.  
Granada L = +51.2m. San Fernando MN = +57.4m.

Sept. 21d. Readings also at 1h. (Tashkent), 2h. (Tacubaya), 5h. (Rocca di Papa), 6h. (Tokyo), 8h. (near Toyooka), 9h. (Tokyo), 10h. (near Zurich), 15h. (Tokyo and near Athens), 19h. (La Paz and Sucre), 22h. (Granada, Ottawa, and Merida).

Sept. 22d. 21h. 9m. 45s. Epicentre 49°0N. 124°0W. (as on Sept. 17d.).

A = -.367, B = -.544, C = +.755; D = -.829, E = +.559;  
G = -.422, H = -.626, K = -.656.

	$\Delta$	Az.	P.	O-C	S.	O-C	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	0.8	141	0 38	+26	—	—	1.9	2.4
Spokane	4.6	105	1 1 3	- 8	i 2 2	- 4	3.6	—
Sitka	10.5	324	(2 38)	+ 1	—	—	(9.2)	(8.6)
Tucson	E. 19.4	145	i 4 41	+ 7	—	—	13.8	—
	N. 19.4	145	e 5 1	+27	—	—	e 13.2	—
Chicago	E. 26.3	92	—	—	—	—	15.4	18.6
Ann Arbor	E. 28.6	88	—	—	e 11 33	+23	e 13.4	17.2
Toronto	N. 30.8	82	—	—	—	—	16.5	19.6
Ottawa	32.5	78	—	—	e 12 15	- 1	e 17.2	19.2
Ithaca	33.2	82	—	—	—	—	e 18.8	—
Fordham	35.7	86	e 17 18	?L	—	—	(e 17.3)	—
Honolulu	E. 38.6	236	—	—	—	—	e 16.4	17.6
Dyce	63.0	30	—	—	—	—	32.2	39.2
Edinburgh	64.1	33	—	—	—	—	e 35.2	—
Upsala	66.8	20	—	—	—	—	38.2	—
Oxford	68.1	35	—	—	—	—	37.0	39.0
Kew	68.7	35	—	—	—	—	e 32.2	—
Leningrad	69.0	13	—	—	—	—	33.6	41.0
Pulkovo	69.3	13	—	—	e 19 42	-36	34.2	40.0
De Bilt	70.1	27	—	—	e 20 9	-18	e 33.2	39.2
Hamburg	70.4	27	—	—	—	—	e 37.2	—
Irkutsk	70.8	331	—	—	e 16 15?	?PR <sub>2</sub>	37.2	—
Uccle	70.9	31	—	—	—	—	e 33.2	44.2
Paris	71.9	34	—	—	—	—	e 39.2	43.2
Strasbourg	74.0	30	—	—	—	—	e 40.2	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Kucino	74.2	10	—	—	e 20 39	-37	37.8	46.1
Moncalieri	77.0	32	—	—	—	—	44.7	—
Tortosa	77.8	40	—	—	—	—	e 43.2	50.9
San Fernando	78.4	47	—	—	—	—	—	45.2
Granada	79.0	45	—	—	e 23 31	†PS	39.2	45.4
Makeyevka	81.8	12	—	—	—	—	e 41.2	59.0
Tashkent	89.0	350	—	—	e 26 45	?	e 43.2	52.8
Baku	90.5	5	e 15 55	+156	e 24 33	+14	45.2	57.1

Additional readings: Victoria PE = +42s. (O-C = +30s.). Spokane  
 iN = +3m.4s. and +4m.18s. Sitka eE = (+3m.51s.); all readings have  
 been increased by 6m. Tucson eE = +5m.47s., eN = +6m.25s. and  
 +7m.30s. Ann Arbor eN = +8m.51s., eE = +13m.15s. and +13m.45s.,  
 LE = +17.0m., ME = +17.4m. Ottawa eLN = +16.2m. Fordham  
 gives several eE and iE readings. Honolulu iLN = +14.8m. Leningrad  
 MZ = +41.6m. Pulkovo MN = +41.0m., MZ = +41.1m. De Bilt  
 MN = +37.8m., MZ = +43.7m. Kucino e = +25m.23s. and +28m.53s.  
 San Fernando MN = +43.8m. Makeyevka MZ = +49.0m., MN =  
 +49.2m. Tashkent MN = +62.0m. Baku P and S are given as e's  
 simply.

Sept. 22d. Readings also at 0h. (near Malabar), 1h. (Baku and Tashkent),  
 8h. (Agana), 13h. (Ann Arbor), 15h. (near Tacybaya), 17h. (Baku and  
 Tashkent), 18h. (La Plata), 21h. (Tokyo), 22h. (Victoria).

Sept. 23d. 15h. 11m. 6s. Epicentre 45°-0N. 29°-0W.

A = +.618, B = -.343, C = +.707; D = -.485, E = -.875;  
 G = +.618, H = -.343, K = -.707.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Lisbon	16.1	106	e 6 22	†S	(e 6 22)	-35	—	—
Bidston	18.8	54	4 31	+ 4	8 2	+ 4	9.1	10.8
Toledo	19.1	97	e 4 30	0	e 8 38	+34	e 9.7	—
San Fernando	19.2	103	(4 34)	+ 3	4 34	†P	8.9	11.9
Edinburgh	19.6	47	i 4 42	+ 6	i 8 19	+ 4	—	10.7
Kew	20.0	61	e 4 43	+ 2	e 8 30	+ 7	10.9	—
Malaga	20.3	105	e 5 0	+15	e 8 30	+ 1	—	—
Granada	20.6	104	i 4 50	+ 2	8 46	+10	19.8	12.9
Dyce	20.6	44	e 4 54	+ 6	e 8 42	+ 6	—	—
Almeria	21.6	103	4 51	- 9	e 8 28	-29	e 9.8	11.8
Paris	21.7	69	e 5 2	+ 1	e 9 3	+ 4	10.9	11.9
Tortosa	21.9	90	5 1	- 3	8 55	- 8	e 10.9	—
	21.9	90	5 3	- 1	8 36	-27	10.6	11.9
Barcelona	22.8	88	e 4 55	-20	—	—	e 11.4	14.7
Uccle	22.9	63	e 5 13	- 3	9 23	0	e 10.9	13.1
De Bilt	23.4	60	5 22	+ 1	9 34	+ 1	11.6	13.7
Strasbourg	25.2	69	e 5 35	- 5	—	—	—	12.9
Algiers	25.4	98	e 5 34	- 8	—	—	e 12.9	—
Moncalieri	25.8	77	5 38	- 8	9 35	-43	13.6	—
Hamburg	26.5	57	—	—	e 9 54†	-38	—	14.9
Cheb	28.1	65	—	—	e 8 54†	-127	—	17.9
Ottawa	32.4	290	—	—	e 12 18	+ 4	e 16.9	—
Budapest	32.8	69	—	—	—	—	e 16.4	—
Leningrad	37.5	45	—	—	—	—	e 18.1	23.5
Pulkovo	37.6	45	e 7 19	-16	13 14	-18	19.6	23.4
Chicago	41.8	289	—	—	—	—	—	23.7
Makeyevka	44.8	61	—	—	e 15 3	- 9	23.9	26.8
Ekaterinburg	53.6	44	e 9 39	+ 9	17 13	+ 9	25.9	—
Baku	55.8	65	—	—	—	—	—	30.9
Tashkent	67.0	55	(11 6)	+ 8	(e 19 54)	+ 4	(e 31.9)	(42.7)

Additional readings and notes: San Fernando MN = +10.9m. Granada  
 MZ = +10.9m. De Bilt MNZ = +13.8m. Strasbourg eP = +5m.38s.  
 Budapest eN = +17m.24s. Pulkovo MN = +25.6m. Makeyevka  
 e = +13m.46s. = SR, +20s., MN = +26.3m. Tashkent e = (+14m.54s.) =  
 PR, +52s. and +27m.36s. = SR, +1s., MZ = +37.8m., MN = +43.2m.;  
 S is given as e simply and all readings have been diminished by 1h.

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Sept. 23d. 18h. 31m. 48s. Epicentre 2°·8N. 96°·0E.

A = -·104, B = +·993, C = +·049; D = +·995, E = +·105;  
G = -·005, H = +·049, K = -·999.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	16·6	285	7 42	?S	(7 42)	+33	9·7	11·2
Kodalkanal	19·8	293	5 6	+27	—	—	12·2	13·5
Phu-Lien	20·7	29	e 4 53	+ 4	—	—	13·2	—
Hyderabad	22·6	312	5 13	+ 1	9 25	+ 8	13·0	19·0
Manila	27·3	63	e 6 8	+ 7	—	—	e 17·0	18·1
Bombay	27·8	307	10 49	?S	(10 49)	- 6	—	15·7
Taihoku	33·2	45	—	—	—	—	19·2	—
Tashkent	45·3	332	i 9 29	+54	i 16 5	+46	e 24·2	26·5
Irkutsk	49·9	7	10 2	+56	17 14	+56	e 27·2	—
Baku	56·2	320	—	—	e 17 37	+ 1	27·2	32·4
Ekaterinburg	60·9	340	i 10 22	+ 4	i 18 36	+ 1	28·2	35·2
Makeyevka	67·0	324	—	—	e 19 53	+ 3	35·2	39·9
Kucino	70·2	330	e 11 16	- 2	e 20 20	- 8	34·2	45·3
Pulkovo	75·5	333	11 54	+ 2	21 32	0	40·2	49·5
Leningrad	75·6	333	—	—	—	—	44·2	—
Cape Town	81·2	236	—	—	—	—	—	45·7
Rocca di Papa	83·1	312	e 12 58	+21	(e 22 42)	-16	e 22·7	—
De Bilt	88·3	323	—	—	e 23 48	- 7	e 45·2	—
Uccle	88·8	321	—	—	e 23 49	-12	e 43·2	—
Paris	90·7	320	—	—	—	—	e 55·2	—
Kew	91·6	323	—	—	—	—	e 50·2	—
Granada	95·9	309	—	—	—	—	53·0	56·2
San Fernando	E. 97·8	309	—	—	—	—	—	65·7
Ottawa	E. 131·3	352	—	—	—	—	e 65·2	—
Toronto	N. 133·4	355	—	—	—	—	81·2	—

Additional readings and notes: Colombo S = +8m.37s. Tashkent i = +9m.54s. = PR<sub>1</sub>-29s., +16m.21s., and +19m.36s. = SR<sub>2</sub>-6s., e = +11m.6s. = PR<sub>1</sub>+6s., and +22m.48s., MN = +32·2m., MZ = +42·3m., Baku MN = +35·6m., MZ = +40·1m. Ekaterinburg MN = +35·0m., MZ = +41·1m. Makeyevka e = +28m.1s. = SR<sub>2</sub>+26s., MN = +46·0m., Kucino MN = +38·3m. Pulkovo SR<sub>2</sub> = +30m.12s., MZ = +49·2m., MN = +53·8m. Rocca di Papa ePR = +11m.28s., ePN = +14m.4s. = P+87s., e = +19m.50s. = PR<sub>1</sub>+28s. De Bilt eLN = +49·2m. San Fernando MN = +61·2m. Ottawa LN = +74·3m.

Sept. 23d. Readings also at 0h. (near Malabar), 7h. (near Manila), 11h. (Rocca di Papa), 12h. (near Athens), 13h. (Tokyo), 14h. (Ekaterinburg, Tokyo, and Sucre), 15h. (Agana and Tokyo), 16h. (Guadalajara, Tacubaya, Manzanillo, Graz, De Bilt, Uccle, Budapest, Zagreb, near Athens, and near Mizusawa), 20h. (Zi-ka-wei), 23h. (Baku, Ekaterinburg, Tashkent, Pulkovo, and Granada).

Sept. 24d. 21h. 4m. 20s. Epicentre 53°·0N. 135°·5E.

A = -·429, B = +·422, C = +·799; D = +·701, E = +·713;  
G = -·570, H = +·560, K = -·602.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	18·8	280	e 4 14	-13	—	—	—	—
Ekaterinburg	41·0	306	18 8	+ 5	14 29	+ 8	e 21·1	—
Tashkent	44·8	283	18 38	+ 6	—	—	e 26·0	31·1
Leningrad	52·2	322	e 9 18	- 3	—	—	—	—
Pulkovo	52·4	322	9 20	- 2	16 44	- 5	—	—

Additional readings: Ekaterinburg e = +17m.45s. = SR<sub>2</sub>-15s. Tashkent e = +8m.54s. and +21m.40s., i = +18m.24s. = SR<sub>2</sub>-2s.

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Sept. 24d. Readings also at 0h. (Rocca di Papa, Moncalieri, Leningrad, San Fernando, and near Sumoto), 1h. (Ekaterinburg and Tashkent), 2h. (Tashkent), 3h. (Tashkent, Pulkovo, Leningrad, Ekaterinburg, and Granada), 4h. (near Sumoto), 5h. (Sucre, La Paz, and Taihoku), 12h. (Tokyo and Ekaterinburg), 13h. (Baku), 15h. (Baku and Tashkent), 17h. (Taihoku), 19h. (Sucre, La Paz, and near Toyooka), 20h. (Baku and near Athens), 22h. (Ekaterinburg, Taihoku, and Tashkent), 23h. (Irkutsk).

Sept. 25d. Readings at 0h. (near Irkutsk), 1h. (near Sumoto), 3h. (near Manila), 9h. (Pulkovo, Makeyevka, Venice, Zagreb, near Naples, Pompeii, and Rocca di Papa), 14h. (Ekaterinburg), 17h. (Manila and Toledo), 19h. (Baku), 21h. (near Batavia and Malabar), 23h. (Granada).

Sept. 26d. 1h. 0m. 21s. Epicentre  $30^{\circ}5'N$ .  $138^{\circ}5'E$ . (as on 1925 May 15d.).

A = -0.645, B = +0.571, C = +0.508; D = +0.663, E = +0.749;  
G = -0.380, H = +0.336, K = -0.862.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	4.8	323	1 28	+14	(2 21)	+10	2.4	2.4
Nagoya	4.8	345	(1 18)	+4	(2 4)	-7	(2.1)	(2.7)
Osaka	4.9	330	1 15	-1	(2 0)	-14	2.0	4.4
Kobe	5.0	328	1 24	+7	(2 20)	+3	2.3	3.4
Tashkent	55.6	302	i 9 43	0	e 17 31	+2	e 27.6	33.6
Ekaterinburg	58.4	321	9 53	-8	17 51	-13	31.6	—
Baku	69.8	306	—	—	—	—	e 45.8	—
Florence	91.4	324	—	—	—	—	e 31.6	42.6

Additional readings: Sumoto S = +2m.3s. Nagoya MN = (+2.4m.). All the readings have been diminished by 5m. Osaka MN = +4.2m. Kobe P = +1m.38s., MN = +2.8m. Tashkent e = +11m.27s., i = +15m.35s. Baku e = +46m.7s.

Sept. 26d. Readings also at 0h. (Granada), 1h. (Ekaterinburg), 2h. (Ekaterinburg and Tashkent), 9h. (Tashkent), 12h. (Tashkent and near Sumoto), 17h. (Tashkent), 18h. (Batavia).

Sept. 27d. 6h. 43m. 15s. Epicentre  $43^{\circ}0'N$ .  $49^{\circ}0'E$ .

A = +0.480, B = +0.522, C = +0.682; D = +0.755, E = -0.656;  
G = +0.447, H = +0.515, K = -0.731.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	2.7	166	10 7	-35	i 0 26	-48	—	0.9
Kucino	14.6	335	—	—	i 6 21	-1	—	—
Tashkent	15.0	90	(i 3 47)	+8	(6 45)	+13	(e 8.2)	(10.3)
Ekaterinburg	15.7	24	3 38	-10	6 34	-14	6.8	8.8
Leningrad	20.5	333	e 4 49	+2	—	—	—	—

Tashkent e = (+4m.45s.) and (+7m.45s.), MZ = (+13.3m); all readings having been increased by 4m.

Sept. 27d. Readings also at 1h. (Sucre, Makeyevka, Ekaterinburg, Tashkent, Pulkovo, Baku, and Bombay), 2h. (Baku, Tashkent, Leningrad, Granada, Toronto, and Ottawa), 3h. (Ekaterinburg, Tashkent, and near Tacubaya), 4h. (Tacubaya), 5h. (Sucre and La Paz), 7h. (Manila), 9h. (Tashkent and Tacubaya), 13h. (near La Paz and Sucre), 15h. (La Plata and Sucre), 16h. (Ekaterinburg and Graz), 17h. (Graz), 18h. (Tashkent), 21h. (La Paz) 22h. (Ekaterinburg, Tokyo, and Sucre).

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Sept. 28d. 15h. 41m. 50s. Epicentre 48°-0N. 15°-8E.

A = +.644, B = +.182, C = +.743; D = +.272, E = -.962;  
G = +.715, H = +.202, K = -.669.

Modified from 47°-5N. 15°-8E. of 1926 July 6d. The observations of Pulkovo, Leningrad, Ekaterinburg, and, perhaps, Paris suggest a second shock about 2.5 minutes later from some such epicentre as 50°N. 20°E. But the accordance is not good.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Vienna		0.5	57	0 6	- 2	10 15	+ 1	—	0.4
Graz		0.9	194	10 6	- 8	—	—	—	0.3
Laibach		2.1	204	10 29	- 4	10 54	- 4	—	1.1
Zagreb		2.2	177	e 0 30	- 4	11 3	+ 3	—	—
Budapest		2.3	103	0 34	- 2	—	—	e 1.2	1.3
Innsbruck	n.w.	3.0	256	10 52	+ 5	11 33	+10	—	—
Cheb		3.0	313	e 1 3	+16	11 40	+17	—	1.8
Venice		3.5	224	1 17	+22	11 59	+22	3.0	—
Ravensburg		4.1	270	e 0 57	- 7	11 44	- 9	12.1	2.4
Hohenheim		4.4	282	e 1 5	- 3	e 1 52	- 9	12.0	2.5
Belgrade		4.5	133	e 1 29	+19	12 27	+23	—	2.6
Zurich	n.	4.9	265	e 1 10	- 6	12 4	-10	—	—
Florence	E.	5.2	219	e 1 40	+20	—	—	—	2.4
Strasbourg		5.4	279	1 37	+14	2 47	+19	—	—
Lemberg		5.7	68	e 1 46	+18	—	—	—	4.6
Moncalieri		6.3	244	e 1 35	- 1	—	—	3.2	—
Rocca di Papa		6.6	200	e 1 44	+ 3	—	—	—	3.7
Besangon		6.6	267	e 2 8	+27	—	—	—	3.7
Hamburg		6.6	329	—	—	—	—	e 3.6	5.8
Pompeii		7.3	187	e 3 10	‡S	(e 3 10)	- 8	—	—
De Bilt		7.9	305	—	—	—	—	e 4.4	—
Uccle		7.9	295	e 3 6	‡S	(3 6)	-28	(4.2)	—
Paris		8.8	282	3 17	+64	e 4 48	+50	5.4	—
Kew		10.9	294	—	—	e 4 10‡	-42	—	—
Pulkovo		14.5	30	e 5 46	+133	7 42	+82	8.7	—
Leningrad		14.6	30	—	—	e 7 42	+80	8.8	—
Makeyevka		14.8	81	—	—	—	—	i 8.0	—
Kucino		15.6	52	—	—	—	—	e 8.3	—
Ekaterinburg		28.2	55	—	—	e 11 42	+39	e 14.9	—

Additional readings and notes: Zagreb eP = +33s., iPR<sub>1</sub> = +34s. +36s., and +51s. Budapest MN = +1.6m. Venice PE = +1m.57s. Belgrade ePE = +1m.33s. and +1m.48s., S = +2m.31s. Zurich readings are given as for 14h. Strasbourg eP = +1m.46s. and +1m.49s. Rocca di Papa eN = +2m.27s., iE = +3m.16s. and +3m.36s., iN = +3m.22s. Hamburg MZ = +6.1m., MN = +6.3m. Paris e = +4m.8s.

Sept. 28d. 15h. 55m. 2s. Epicentre 9°-0S. 121°-0E. (as on 1924 April 4d.).

A = -.509, B = +.847, C = -.156; D = +.857, E = +.515;  
G = +.081, H = -.134, K = -.988.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina		8.9	54	2 14	- 1	14 50	+49	(14.8)	—
Batavia	E.	14.3	280	1 3 40	+10	—	—	—	—
Manila		23.6	0	e 5 34	+10	(19 40)	+ 4	19.7	—
Adelaide		30.6	150	(6 33)	- 1	(11 38)	- 6	(13.6)	(16.0)
Phu-Lien		33.0	335	—	—	—	—	19.0	—
Melbourne		36.0	147	—	—	e 12 22	-48	—	23.5
Sydney		37.2	138	11 28	‡S	(11 28)	-119	23.0	27.8
Riverview		37.2	138	—	—	13 28	+ 1	e 20.8	24.6
Bombay		55.1	301	17 22	‡S	(17 22)	0	—	34.6
Irkutsk		62.9	349	e 10 58‡	+27	e 18 56	- 4	e 39.0	—
Tashkent		69.1	321	1 11 12	0	—	—	e 37.0	49.7
Baku		81.8	313	e 12 29	0	e 22 30	-14	42.0	55.2
Ekaterinburg		82.1	332	e 12 28	- 3	22 38	- 9	35.0	54.8
Makeyevka		92.0	318	—	—	1 23 54	[+14]	50.0	64.2
Kucino		93.5	325	—	—	e 24 24	-27	43.9	57.2

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	98.1	330	(e 14 16)	+15	(e 25 16)	-21	(47.0)	(58.5)
Leningrad	98.1	330	—	—	—	e	57.5	—
De Bilt	E. 112.8	322	—	—	—	e	58.0	—
Uccle	113.6	320	—	—	—	e	55.0	—
Granada	122.8	309	—	—	—	e	74.6	76.4
Ottawa	140.8	17	—	—	—	e	63.0	—
Toronto	141.0	23	—	—	—	—	63.0	—
Sucree	151.3	167	i 20 4	[+ 6]	—	—	—	—

Additional readings and notes: Batavia gives  $T_0 = 15h.55m.0s.$ ; epicentre  $9^\circ.0S. 121^\circ.5E.$  Adelaide MN = +15.6m; all readings have been diminished by 5m. Riverview e(S?) = +18m.40s., MN = +23.6m. Tashkent e = +13m.52s. = PR<sub>1</sub> -27s., +18m.6s., +22m.8s., +23m.8s., +28m.29s. = SR<sub>2</sub> +12s., +30m.58s., +32m.40s., and +35m.58s., i = +25m.10s. = SR<sub>1</sub> -27s., MN = +45.6m. Baku MN = +52.2m., MZ = +56.4m. Ekaterinburg MN = +51.4m., MZ = +54.6m. Makeyevka MN = +60.8m. Kucino MN = +46.9m. Pulkovo. The readings have been diminished by 7min. De Bilt eLN = +56.0m.

Sept. 28d. 21h. 30m. 52s. Epicentre  $46^\circ.5N. 13^\circ.0E.$  (as on 1926 July 23d.).

A = +.671, B = +.155, C = +.725; D = +.225, E = -.974;  
G = +.707, H = +.163, K = -.688.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Laibach	1.1	113	i 0 18	+ 1	i 0 33	+ 2	—	—
Venice	1.1	204	0 29	+12	—	—	2.1	—
Innsbruck	N.E. 1.4	305	e 0 20	- 1	i 0 35	- 4	—	—
Graz	1.8	71	0 30	+ 2	—	—	—	0.9
Ravensburg	E. 2.7	299	i 0 43	+ 1	i 1 10	- 4	i 1.3	1.3
Vienna	Z. 2.9	52	e 1 21	+36	(e 1 21)	+ 1	—	—
Zurich	N. 3.2	288	e 0 46	- 4	i 1 36	+ 8	—	—
Strasbourg	4.1	302	e 1 24	+20	(1 53)	0	1.9	—

No additional readings.

Sept 28d. Readings also at 1h. (Irkutsk), 2h. (Zagreb), 3h. (Ekaterinburg), 5h. (Tashkent and near Tacubaya), 8h. (San Fernando), 15h. (near Toyooka), 16h. (Toronto), 17h. (Vienna, Tucson, Berkeley, and Lick), 18h. (Ottawa, Toronto, and near Sumoto), 19h. (Cape Town and Matuyama).

Sept. 29d. 3h. 52m. 20s. Epicentre  $20^\circ.0N. 94^\circ.0W.$  (as on 1922 April 3d.).

A = -.066, B = -.937, C = +.342.

	$\Delta$	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Merida	4.2	79	0 57	- 8	2.2?	2.3
Tacubaya	5.0	262	1 25	+ 8	2.3	2.9

Sept. 29d. 3h. 58m. 55s. Epicentre  $1^\circ.0N. 143^\circ.5E.$  (as on 1923 April 30d.).

A = -.804, B = +.595, C = +.017; D = +.595, E = +.804;  
G = -.014, H = +.011, K = -.1000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	26.1	303	e 4 5?	-104	—	—	—	—
Sydney	35.6	169	—	—	13 17	+13	17.4	18.2
Riverview	35.6	169	—	—	e 13 59	+55	18.7	19.8
Adelaide	36.2	187	—	—	13 12	- 1	16.7	19.0
Melbourne	38.9	178	—	—	—	—	i 21.4	—
Irkutsk	60.8	334	e 10 21	+ 3	e 18 53	1PS	e 34.1	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	s.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	77.6	312	11 52	-13	21 38	-18	e 38.1	45.0
Ekaterinburg	85.2	327	e 12 49	0	e 23 3	-18	36.1	—
Victoria	E. 91.4	42	—	—	—	—	45.4	53.4
Baku	92.1	310	—	—	—	—	e 47.1	—
Makeyevka	99.5	319	—	—	—	—	e 56.1	64.3
Leningrad	100.5	332	—	—	—	—	53.4	63.3
Pulkovo	100.6	332	e 18 11	?PR <sub>1</sub>	—	—	51.1	62.9
Uccle	117.7	331	—	—	—	—	e 58.1	—
Toronto	121.2	35	—	—	—	—	63.1	—
Ottawa	122.1	31	—	—	—	—	e 62.1	—
La Paz	145.2	118	19 49	[+ 1]	—	—	—	—

Additional readings: Riverview e(S<sub>1</sub>) = +16m.17s. = SR<sub>1</sub> - 31s. and +17m.43s. MN = +20.3m.; are the readings all 1min. too large? Adelaide MN = +19.8m. Melbourne e = 3h.57m.12s. Tashkent i = +11m.54s., MN = +42.4m., MZ = +45.1m. Makeyevka L = +61.1m. Pulkovo MN = +62.1m., MZ = +63.2m. La Paz i = +20m.20s. and +20m.38s.

Sept. 29d. 5h. 16m. 30s. (I) } Epicentre 9°·0N. 155°·0E. (as on 1925 May 16d.).  
5h. 43m. 30s. (II) }

A = -·895, B = +·417, C = +·156; D = +·423, E = +·906;  
G = -·142, H = +·066, K = -·988.

Very rough indeed, and not very satisfactory since the New Zealand readings are quite discordant, though they may be due to an earlier shock recorded also at Riverview.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Riverview	43.0	185	e 7 54?	-24	(e 15 31)	+42	e 15.5	22.5
I Sydney	43.0	185	—	—	15 18	+30	20.8	22.5
I Adelaide	46.6	200	—	—	—	—	26.0	30.9
II Honolulu	N. 46.7	70	—	—	—	—	e 24.2	—
I Wellington	53.5	164	—	—	(e 14 15)	-168	e 14.3	16.6
I Christchurch	54.9	167	—	—	(15 0)	-140	15.0	18.5
I Irkutsk	59.6	328	—	—	—	—	e 36.5	—
II	59.6	328	—	—	—	—	35.5	—
II Tashkent	80.9	312	—	—	—	—	—	48.3
I Ekaterinburg	84.9	329	—	—	e 24 34	+76	45.5	—
II	84.9	329	—	—	—	—	63.0	—
II Baku	95.5	314	—	—	—	—	e 48.5	—
II Leningrad	98.5	336	—	—	—	—	e 52.0	—
II Pulkovo	98.6	336	—	—	—	—	e 52.5	62.2
I Makeyevka	100.6	325	—	—	1 25 4	[+37]	31.5	—
I Chicago	E. 103.6	44	—	—	—	—	e 58.5	—
II	103.6	44	—	—	—	—	e 43.8	—
I Toronto	108.0	39	—	—	e 34 30	SR <sub>1</sub>	38.7	—
II	108.0	39	—	—	—	—	38.5	—
I Ottawa	109.2	36	—	—	e 34 30	SR <sub>1</sub>	e 41.5	—
II	109.2	36	—	—	—	—	39.5	—
II De Blt	E. 113.7	340	—	—	—	—	e 69.5	—
II Uccle	115.1	340	—	—	—	—	e 66.5	—

Additional readings and notes: Riverview gives an earlier reading e<sub>1</sub> = 5h.8m.42s., also MN = +21.8m.; all readings are queried except M. Adelaide MN = +29.4m. Christchurch also gives an earlier reading PR<sub>1</sub> = 5h.5m.0s.; if there was an earlier shock, it would explain the early readings at Wellington and Riverview. Ekaterinburg I e<sub>1</sub> = +27m.54s. Ottawa I eLN = +38.5m., II LN = +47.5m.

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Sept. 29d. 12h. 20m. 16s. Epicentre 3°-0N. 122°-0E. (as on 1922 Aug. 30d.).

A = -0.529, B = +0.847, C = +0.052; D = +0.848, E = +0.530  
G = -0.028, H = +0.044, K = -0.999.

Focal depth 0.040 has been adopted; the greater depth 0.080 of Sept. 30d. is excessive for the present shock.

	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Manila	-0.6	11.7	355	e 2 39	- 7	—	—	6.6	—
Batavia	-1.3	17.7	239	14 8	+11	—	—	—	8.5
Hong Kong	-1.7	20.8	339	—	—	—	—	—	—
Phu-Lien	-1.9	23.3	321	5 44?	+46	—	—	—	—
Irkutsk	-4.1	51.3	346	e 8 34	-14	e 19 45	?SR <sub>1</sub>	31.7	—
Tashkent	-4.6	60.7	317	i 9 57	+10	e 18 17	-78	e 31.7	40.9
Ekaterinburg	-4.9	72.2	330	i 11 2	+ 2	e 20 1	+ 7	31.7	—
Baku	-5.0	74.5	311	e 11 23	+ 9	e 21 14	[+ 6]	39.7	—
Kucino	-5.3	84.2	326	—	—	—	—	e 42.3	—

Tashkent gives also  $i = +10m.4s.$ ,  $e = +10m.47s.$ ,  $+11m.14s.$ ,  $+18m.51s.$  =  
PS +49s., +23m.32s. = SR<sub>1</sub> -13s., and +26m.20s.

Sept. 29d. Readings also at 1h. (Vienna), 7h. (San Fernando), 12h. (Manila), 13h. (Granada and near La Paz), 17h. (near Almeria, Granada, and Malaga), 18h. (Uccle, near Almeria, Granada (2), and Malaga), 19h. (near Granada), 23h. (near Sumoto).

Sept. 30d. 4h. 16m. 30s. Epicentre 21°-5N. 40°-5W. (as on 1925 Aug. 11d.).

A = +0.707, B = -0.604, C = +0.367; D = -0.649, E = -0.760;  
G = +0.259, H = -0.238, K = -0.930.

If the Spanish observations are correct, the epicentre should be moved further from Spain, and T<sub>1</sub> must be increased. These alterations suggest a deep focus. On 1922 Sept. 22d. the epicentre 25°-2N. 46°-6W. was used, with focal depth 0.045, but a much larger focal depth would be required in the present instance.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
San Fernando E.	33.3	55	—	—	—	—	—	21.5
Granada	35.5	55	e 8 56	†PR <sub>1</sub>	(e 13 36)	+33	18.4	22.9
Almeria	36.3	56	i 9 23	†PR <sub>1</sub>	—	—	—	20.9
Ottawa	37.3	320	e 7 54	+22	—	—	e 14.5	—
Toronto E.	39.0	315	—	—	e 15 46	†SR <sub>1</sub>	17.2	—
Kew	43.1	36	—	—	—	—	e 21.5	—
Edinburgh	44.0	30	—	—	—	—	e 21.5	—
Uccle	45.5	39	—	—	e 15 30	+ 9	e 20.5	—
De Bilt	46.4	38	—	—	—	—	e 22.5	25.1
La Paz	46.7	220	i 8 48	+ 3	15 36	- 1	23.4	26.9
Sucre	47.2	216	9 26	+38	e 15 32	-12	23.5	27.6
Florence	48.0	52	—	—	—	—	e 23.5	25.5
Hamburg	49.7	38	—	—	—	—	e 25.5	—
Cheb	50.0	42	—	—	1 16 51	+32	e 25.5	28.5
Pulkovo	61.9	33	—	—	—	—	e 25.5	—
Leningrad	61.9	33	—	—	—	—	—	29.0
Makeyevka	66.7	46	—	—	—	—	e 17.5	—
Victoria E.	69.4	315	—	—	—	—	33.2	38.4
Baku	76.6	52	—	—	—	—	e 43.5	—
Ekaterinburg	77.9	33	12 22	+16	—	—	—	38.5
Tashkent	89.7	37	(e 13 32)	+18	(e 23 30)	[+ 4]	(e 39.5)	(51.5)
Irkutsk	100.0	22	i 19 23	†PR <sub>1</sub>	—	—	e 45.5	—

Additional readings and notes: San Fernando MN = +19.5m. Granada S has been diminished by 6m.; as printed it followed L. Almeria MN = +19.6m. Ottawa e = +13m.16s. = S-10s. De Bilt MN = +23.9m., MZ = +25.1m. Ekaterinburg MN = +43.3m. MZ = +45.0m. Tashkent e = (+15m.30s.†), (+21m.20s.), and (+22m.57s.), MN = (+52.2m.), MZ = (+52.5m.); all readings have been increased by 5m.

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Sept. 30d. 5h. 17m. 35s. Epicentre 3°-0N. 122°-0E. (as on Sept. 29d. 12h.)

A = -0.529, B = +0.847, C = +0.052; D = +0.848, E = +0.530;  
G = -0.028, H = +0.044, K = -0.999.

A depth of focus 0.080 has been assumed, see note at end. The 0.040 used on Sept. 29 is not enough.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Amboina	-0.5	9.1	137	i 2 9	- 1	i 3 50	- 3	—	—
Manila	-1.2	11.7	355	—	—	i 4 45	+ 2	—	—
Batavia	-2.7	17.7	239	i 3 57	+18	i 6 55	+23	—	—
	-2.7	17.7	239	3 51	+12	6 54	+22	—	—
Hong Kong	-3.3	20.8	339	—	—	—	—	—	11.4
Irkutsk	-7.3	51.3	346	8 22	- 4	i 14 56	- 6	24.4	—
Tashkent	-7.9	60.7	317	(i 9 29)	+ 4	(16 59)	+ 5	(e 31.5)	(39.1)
Ekaterinburg	-8.6	72.2	330	10 38	+ 2	i 19 9	+ 1	26.4	—
Baku	-8.8	74.5	311	(i 10 56)	+ 7	e 20 45	+72	—	—
Pulkovo	-9.6	88.2	330	i 12 1	-10	i 21 48	-19	51.4	—
Leningrad	-9.6	88.3	330	i 12 0	-11	i 21 50	-18	51.1	—
Ottawa	—	128.9	16	e 37 5	?	—	—	—	—
Toronto	—	129.3	20	e 36 55	?	—	—	—	—
Sucre	—	162.5	157	19 20	[-50]	—	—	—	—
La Paz	—	163.2	144	18 51	[-79]	i 29 50	?	—	—

Additional readings: Irkutsk e = +17m.7s. Tashkent e = +11m.25s. = PR, -19s., +12m.29s. = PR, -7s., +20m.25s., and +24m.25s., i = +19m.20s., MZ = +36.3m., MN = +39.2m.; all readings have been increased by 5m. Ekaterinburg i = +10m.39s., iPR = +13m.32s., PS = +19m.44s., i = +22m.47s. Baku iP has been increased by 10m. Pulkovo i = +25m.42s. Sucre i = +21m.47s.

NOTE TO SHOCK 1926 SEPT. 30d. 5h. 17m. 35s.

Collecting the residuals for the observed distances of stations under 90° from the epicentre we have the following table:—

No. of Stations.	Azimuth	Station.	Equation	O <sub>1</sub>	O <sub>2</sub>
1	5	Manila	+09x + 1.00y	-0.7	+0.5
1	137	Amboina	+68x - 73y	-0.6	-0.1
1	239	Batavia	-86x - 52y	-1.7	+0.9
2	314	Asia	-72x + 69y	-7.6	+0.7
4	334	Russia	-44x + 90y	-8.8	-1.0

The figures in column O<sub>1</sub> are the residuals themselves, those in O<sub>2</sub> have been corrected for focal depth 0.080. There is evidently no solution to the equations with O<sub>1</sub>, but solving them with O<sub>2</sub> we get x = -0° 1 y = -0° 2, showing that the origin 3°-0N. 122°-0E. is substantially correct if we allow the exceptional depth of focus.

Sept. 30d. Readings also at 1h. (near Spokane), 2h. (Taihoku), 5h. (La Paz and Sucre), 8h. (near Toyooka), 9h. (Vienna and Graz), 10h. (near Sarajevo), 12h. (near Reykiavik), 13h. (Ekaterinburg and Tashkent), 14h. (near Misasa), 15h. (Granada), 16h. (Irkutsk, Hong Kong, Taihoku, Ekaterinburg, and Tashkent), 17h. and 18h. (Nagasaki), 20h. (Manila), 22h. (Taihoku and near Tashkent), 23h. (Manila and near Mostar).