

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 October, November, December.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number deals with 176 epicentres, 47 of which are new and 129 repetitions from old epicentres. It completes the record of the year 1926 and the computations for 1927 are in hand. But in approaching the new year the material was found very imperfect.

It was necessary to send out sixty requests for observations not yet received. Observers are earnestly requested to send their readings, whether printed or in MS., in good time; delay increases the work of collation considerably.

Cases of abnormal focus are as follows:—

	Date, 1926.				Epicentre.		Focal Depth
	d.	h.	m.	s.	°N.	°E.	(below normal).
Oct.	30	13	46	24	9·5	123·0	+·070
Nov.	5	7	55	33	12·3	85·8	+·020

There is a very puzzling series of observations on Dec. 16d. 0h. for which it seems impossible to suggest a satisfactory solution.

Observations of [P].

The shock of Oct. 3d. 19h. 37m. 51s. at 50°·5S. 161°·0E. provided a long series of observations of [P]. Collecting the residuals they may be grouped in sets of five as follows:—

Mean Δ	Mean Resid.	Mean Δ	Mean Resid.
	s.		s.
129·4	— 35	160·2	+ 8
142·2	0	161·7	— 3
148·8	— 6	162·6	— 1
154·4	+ 3	163·9	+ 7
157·6	— 5	166·1	+ 8
		169·0	+ 6

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The following corrections to the adopted table for [P] are suggested by this shock :—

Δ	$\overset{\circ}{120}$	$\overset{\circ}{130}$	$\overset{\circ}{140}$	$\overset{\circ}{150}$	$\overset{\circ}{160}$	$\overset{\circ}{170}$	$\overset{\circ}{180}$
	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.
Adopted [P]	18 52	19 18	19 39	19 56	20 8	20 15	20 17
Corrn.	-1 21	-0 29	-0 14	-0 5	+0 1	+0 2	-0 3
New [P]	17 31	18 49	19 25	19 51	20 9	20 17	20 14

But it is not proposed to apply these corrections at present ; they are only noted for comparison with other cases.

Observations of L.

The same shock provides several series of L values, the chief of which can be explained as emanating from near the epicentre in the usual way. The reason for calling it L₂ will appear directly. It takes the great majority of stations, the names of which can be easily recovered from the text on p. 320 if desired. The quantity C₁ is simply Δ (in degrees) $\times 0.405$ min.

Δ L ₂ -C ₁ m.	Δ L ₂ -C ₁ m.	Δ L ₂ -C ₁ m.	Δ L ₂ -C ₁ m.	Δ L ₂ -C ₁ m.
10.6 +0.5	88.2 (-2.6)	113.3 +0.5	139.5 +1.7	162.0 +1.6
17.1 -0.3	89.3 +0.6	118.2 +0.5	140.6 +3.3	164.9 +1.4
18.2 +0.9	89.7 +2.3	118.2 +0.4	141.4 +3.1	164.9 +0.4
22.5 +1.4	91.3 (-2.5)	119.6 -0.3	142.6 +2.4	165.3 +1.2
35.3 +3.5	92.8 0.0	120.5 (-3.4)	146.4 -0.3	166.0 +2.0
37.9 +1.0	93.8 +1.0	121.6 +1.0	147.0 +1.9	168.0 -0.4
42.8 +1.9	99.4 +1.4	121.8 +1.6	147.4 -0.5	168.9 +1.8
61.8 +1.0	100.3 +1.7	129.9 -0.5	151.1 +1.0	169.1 +1.7
83.2 +0.9	109.9 +0.7	133.4 -0.7	151.2 +1.4	169.3 +1.7
88.0 +2.6	111.0 +0.6	135.1 +0.5	157.2 (-3.5)	169.8 -1.1
	111.0 (-3.2)	136.1 +2.5	157.5 +0.4	
Mean +1.3	Mean +1.0	Mean +0.6	Mean +1.4	Mean +1.0

It will be seen that the differences L₂-C₁ are small except in a few cases of discordance which have been bracketed. The others cluster round a mean value +1.2m. If we take groups of 5 with +1.0m. to +1.4m. as central group, the numbers in the groups are as below :—

Mean Value	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
	-1.3	-0.8	-0.3	+0.2	+0.7	+1.2	+1.7	+2.2	+2.7	+3.2	+3.7
No Cases	1	1	6	5	9	9	9	3	2	2	1

Outside these there are six bracketed negative errors which stand out. They could be explained by an L₁ wave travelling several minutes earlier, with the same velocity as the other. Thus we should have

Δ	=	$\overset{\circ}{88.2}$	$\overset{\circ}{91.3}$	$\overset{\circ}{111.0}$	$\overset{\circ}{120.5}$	$\overset{\circ}{157.2}$
		m.	m.	m.	m.	m.
L ₁	=	33.1	34.5	41.8	45.4	60.2
C ₁ -3.0	=	32.7	34.0	42.0	45.8	60.7
Diff.	=	+0.4	+0.5	-0.2	-0.4	-0.5

The fit could even be improved by adopting the rather different velocity $\Delta \times 0.390\text{m.}$ for the wave, in which case the negative constant -3.0m. would be reduced to -1.3m. But it could not be made positive without straining the facts, and there is thus some difficulty in interpreting a wave which appears to start from the epicentre 3 minutes before the shock takes place (T_0). This paradox can be removed by excluding the neighbourhood of the epicentre, and supposing the L_1 wave to start at some distance from it. Since $C_1=3.0\text{m.}$ when $\Delta=3^\circ.0/0.405=7^\circ.5$, the L_1 wave must start from somewhere outside this ring. A not unreasonable hypothesis is that it is started by the P wave, which, being normal to the surface near the epicentre, cannot start an L wave affecting *horizontal* seismographs from that neighbourhood, but at some distance becomes more nearly tangential to the surface. The time for P to $\Delta=18^\circ$ is 4.3m. , according nearly with $L_1=18 \times .405 - 3.0 = 4.2\text{m.}$ Now if P really starts L waves at this distance, it will send them in both directions, backwards as well as forwards. The backwards wave will reach the epicentre after 4.3m. , and arrive at an equal distance 18° on the opposite side (from which L_1 also started) in 8.6m. It will thus appear to follow L_1 by 8.6m. , or T_0 by 5.6m. We shall find evidence of something like this presently.

But to return now to $L_2=+1.2\text{m.}+C_1$. It is probably started by S, which lies wholly in the surface near the epicentre. The time lag 1.2m. is the time taken by S to reach the surface from a depth of about 70 miles, if we suppose L_2 to be started exactly at the epicentre. Since from such a depth S would reach points in the neighbourhood nearly at the same time, we should probably assume as an effective starting ring for L_2 a distance of a few degrees. But our information scarcely gives this ideal precision as yet.

There are a number of readings of L earlier still which seem to be simple mistakes for S or [S], as indicated in the text: see Manila, Hong Kong, Sumoto, Hukuoka, Ootomari. And then there are some which seem to be SR_1 or perhaps $[S]R_1$, at values of Δ for which these two have nearly equal values:—

Station.	Δ	L.	SR_1	$[S]R_1$	Station	Δ	L.	SR_1	$[S]R_1$
	°	m.	m.	m.		°	m.	m.	m.
Budapest	155.1	44.2	43.8	44.2	Almeria	161.9	45.2	45.2	45.0
Vienna	157.1	45.2	44.2	44.4	Granada	162.7	44.1	45.3	45.1
Innsbruck	159.9	46.4	44.8	44.8	Oxford	168.9	46.2	46.4	45.8

Finally there are some which appear to emanate from the anticentre which we will consider in a moment.

Let us now turn to the large positive residuals excluded from the main table for L_2 . We may first look for cases where L_1 or L_2 have travelled through the anticentre and reached the

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station by the longer arc. There seem to be three only, with a possible fourth :—

Station.	Δ	L.	$L-C_1$	$360^\circ - \Delta$	$L-C_1$
	$^\circ$	m.	m.	$^\circ$	m.
Harvard E.	144.0	77.2	+19.9	216.0	(-10.3)
Rocca di Papa	156.6	83.0	+19.6	203.4	+ 0.6
Laibach	157.4	85.6	+21.9	202.6	+ 3.6
Hohenheim	161.7	80.6	+15.1	198.3	+ 0.3

Harvard E may possibly be 10m. in error. Excluding it, the mean value of $L-C_1$ for the long arcs is +1.5m., curiously accordant with the mean residual for L_2 . We may fairly assume that it is L_2 , the main L wave, which thus finds its way round. The other positive residuals may be grouped as follows for purposes of discussion, though the grouping is rather arbitrary :—

Δ	L_3-C_1	Diff.	Δ	L_4-C_1	Diff.	Δ	L_5-C_1	Diff.
m.	m.	m.	$^\circ$	m.	m.	$^\circ$	m.	m.
63.0	+5.9	-0.1	54.4	+9.3	+0.7	87.7	+12.6	0.0
80.4	+6.1	+0.1	109.2	+7.6	-1.0	144.0	+13.5	+0.9
85.9	+4.4	-1.6	109.3	+7.6	-1.0	156.4	+10.8	-1.8
103.3	+6.9	+0.9	109.9	+8.7	+0.1	161.1	+13.9	+1.3
111.0	+6.4	+0.4	138.3	+8.6	0.0	162.6	+13.3	+0.7
124.3	+6.5	+0.5	155.1	+9.4	+0.8	162.7	+11.6	-1.0
158.5	+6.0	0.0	163.2	+8.0	-0.6			
Mean	+6.0	± 0.5	166.3	+9.1	+0.5	Mean	+12.6	± 1.0
			Mean	8.6	± 0.6			

The chief doubt is as regards the separation of L_3 and L_4 , but the mean numerical residual is only about half a minute, which may justify a separation of $2\frac{1}{2}$ minutes. If this is permitted then L_3 closely represents the companion of the early L_1 wave, travelling from the same starting point (about 18° from the epicentre), but backwards through the epicentre.

Of L_4 and L_5 no explanation suggests itself except possibly this : that S starts a series of L waves L_2, X, L_4 and L_5 at equal intervals +1.2m., +5.0m., +8.8m., +12.6m., of which X is confused with L_3 .

We turn back now to the large residuals, chiefly negative, which seem better suited by the idea of emanation from the anticeentre. They fall into two groups as follows :—

Δ	L.	$L-C_1$	$L+C_1$	$L-C_2$	$180^\circ - \Delta$	PA	$L-PA$	Diff.
$^\circ$	m.	m.	-113.0m.	m.	$^\circ$	m.	m.	m.
143.6	52.2	-6.0	-2.6	-0.4	36.4	7.4	44.8	+0.3
152.8	50.0	-11.9	-1.1	-0.6	27.2	6.0	44.0	-0.5
153.2	51.1	-10.9	+0.1	+0.6	26.8	5.9	45.2	+0.7
162.1	49.5	-16.2	+2.2	+1.0	17.9	4.3	45.2	+0.7
168.9	46.2	-22.2	+1.6	-0.8	11.1	2.8	43.4	-1.1

It is clear that $L-C_1$ is not constant, but $L+C_1$ is nearly constant. The mean value is 113.0m. but the column ($L+C_1-113.0m.$) shows a definite run in the residuals, which are better represented (as shown in the column $L-C_2$) by

$$C_2 = 44.5m. + (180^\circ - \Delta) \times 0.224m.$$

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But the velocity indicated by 0.224m. per degree is far too great for an L wave, and approaches that of P. Hence the values of P_A were tried, where P_A corresponds to $(180^\circ - \Delta)$: and we see that in fact $L - P_A$ is nearly constant with mean value 44.5m.

The other series is as follows :—

Δ	L.	$L - C_1$	$L + C_1$ -125.2m.	$L - C_2$	$180^\circ - \Delta$	S_A	$L - S_A$	Diff.
°	m.	m.	m.	m.	°	m.	m.	m.
130.8	69.6	+16.6	-2.6	+1.0	49.2	16.2	53.4	+1.1
157.2	60.2	-3.5	-1.3	-1.1	22.8	9.3	50.9	-1.4
159.1	60.2	-4.2	-0.6	-0.6	20.9	8.7	51.5	-0.8
160.1	60.2	-4.7	-0.1	-0.2	19.9	8.4	51.8	-0.5
161.3	61.2	-4.2	+1.4	+1.1	18.7	7.9	53.3	+1.0
162.8	59.3	-6.7	+0.1	-0.3	17.2	7.4	51.9	-0.4
163.2	58.2	-8.0	-0.8	-1.2	16.8	7.2	51.0	-1.3
163.3	59.2	-7.1	+0.3	-0.2	16.7	7.2	52.0	-0.3
163.4	60.2	-6.1	+1.3	+0.7	16.6	7.2	53.0	+0.7
168.2	59.2	-8.9	+2.1	+0.9	11.8	5.2	54.0	+1.7

Here again $L - C_1$ is not constant, but $L + C_1$ is about 125.2m. The column $L + C_1 - 125.2m.$ shows however a distinct run, and L is better represented by C_3 where

$$C_3 = 55.1m. + (180^\circ - \Delta) \times 0.274m.$$

The velocity 0.274m. for 1° is less than before, but still much larger than that of L. On trying the values of S for the anti-central arc we get the column $L - S_A$ with mean value 52.3m.

Hence it would appear that 44.5m. after T_0 an impulse arrives at the anticentre which sends out P waves; and 52.3m. after T_0 an impulse arrives which sends out S waves. These intervals from T_0 are much larger than the times for [P] and [S] which travel *through* the nucleus, and the question arises whether the waves, on reaching the nucleus, travel *round* its surface as L waves, instead of *through* it as P. The time taken to travel round would be the same in both cases, but we may suppose that from epicentre to nucleus and from nucleus to anticentre the former wave travels as P and the latter as S. Assuming symmetry, the difference $52.3m. - 44.5m. = 2(S - P)$ or $S - P = 3.9m.$; so that from the tables $P = 4.9m.$ $S = 8.8m.$ Hence the time 44.5m. is made up of two straight P paths of 4.9m. each, and 34.7m. for travelling round the nucleus as L, and the time 52.3m. is made up of two straight L paths of 8.8m. each, and 34.7m. round the nucleus as before. The straight P and S paths ought to be the same as in [P] and [S], the difference being that these latter waves go *through* the nucleus as P waves, taking 10.5m. to do so, as compared with 34.7m. to go round as L. The ratio of 34.7 to $10.5 = 3.31$ compares not unreasonably with the ratio of 72.9m., the time taken by L to go round the earth's surface, to 21.3, the time taken to go through, viz., $72.9/21.3 = 3.42$. The ratios would be more strictly comparable if the interior of the earth were

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all of the same elastic composition as the surface layers, as is presumably the case with the liquid nucleus : since the velocity of P is greater in the middle the ratio 3.42 for the outer surface is greater for this reason.

All the figures are of course approximate only ; but they seem to fit together.

Summing up then, we find the same velocity 0.405m. for 1°, or 2°.47 per minute for a series of L waves, which however have different (apparent) starting times, as below :—

	L_1	L_2	L_3	L_4	L_5
	m.	m.	m.	m.	m.
(Starting time— T_0)	-3.0	+1.2	+6.0	+8.6	+12.6
No. of cases	5	51	7	8	6

The great majority of stations observe L_2 which is presumably started by S : it is suggested that L_1 and L_3 form a pair started in opposite directions by P from a ring of about 18° radius round the epicentre. L_4 and L_5 may perhaps be rhythmic repetitions of L_2 . Three or four stations observe L_2 after it has travelled round through the anticentre, “ the long way round.”

But mixed up with the observations of L are some P and S waves emanating from the anticentre, at times which suggest the following courses. Starting as P, a wave travels towards the anticentre but on reaching the liquid nucleus after 4.9m. it enwraps it in 34.7m. (as L) to the opposite point, and then resumes its path to the anticentre in another 4.9m. as P, radiating thence according to the usual tables for P. The other wave starts as S for 8.8m. to the nucleus, 34.7m. as L round it as before, another 8.8m. to the anticentre, and then radiates as S according to the tables.

The output of seismological literature is now so great that I do not know whether these suggestions have been made before, and should be grateful for any references if they have. Meanwhile other earthquakes are being similarly examined.

Large Errors of Tables near $\Delta=35^\circ$.

In the discussion of the errors of the adopted tables (Geop. Supp. to M.N.R.A.S. I 425, Dec. 1926) it is pointed out (p. 444) that there seems to be a double maximum in the residuals near $\Delta=35^\circ$. The earthquake of Oct. 26d. 3h. 44m. 35s. affords an

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illustration of the more serious divergence from the tables. The mean residuals are as follows :—

No. of Stations.	Limits of Δ	P—C. s.	S—C. s.
6	32—36	—18	—29
7	37—38	—13	—23
4	39—42	—12	—28

Something of the same kind is shown in the repetitions from the same epicentre at 6h. 11m. 25s. and 8h. 35m. 3s. At 14h. 15m. 45s. the smaller residuals seem to prevail, though for this and subsequent shocks the accidental errors become large.

New Icelandic Station.

A cordial welcome is offered to the station at Reykjavik, Iceland, which, though it has now been established for some years, appears in this Summary for the first time on 1926 October 8d. The value of this station (and the Greenland stations) is illustrated by the fact that there is nothing in the present number to identify a shock on October 25 which damaged the lighthouse at Reykjanes (a cape on the S.W. coast, near Reykjavik) according to telegrams which reached the daily Press.

Shocks felt by Ships.

The s.s. *Horace Luckenbach* in lat. $37^{\circ}10'30''N.$, long. $122^{\circ}30'W.$, at 5.30 a.m. vibrated heavily for two minutes, apparently caused by an earthquake (Oct. 22d. 12h. 35m. 8s. Epicentre $36^{\circ}5'N.$ $122^{\circ}0'W.$, as in text).—*Georgetown Seism. Despatches.*

The shock of Nov. 5d. 7h. 55m. 33s., epicentre $12^{\circ}3'N.$ $85^{\circ}8'W.$ which shook Managua, the capital of Nicaragua, lat. $12^{\circ}N.$, long. $86^{\circ}5'W.$, was felt by two ships as follows : The following report has been received from s.s. *Magician*, Captain P. O. Nicholas :—

5th November 1926, at 2.18 ship's time (0758GMT) when in lat. $10^{\circ}25'N.$, long. $88^{\circ}10'W.$, a very severe submarine disturbance was experienced. Two distinct shocks, lasting about 10 or 15 seconds, with an interval of about $1\frac{1}{2}$ minutes, were felt. The vessel shook violently, a rumbling, grating sensation was experienced. Masts, funnel, and superstructures vibrated and rattled alarmingly, giving the impression that the ship was running aground on to hard bottom and buckling fore and aft. She was steaming 11 knots, the weather clear and fine, with a light easterly wind blowing, although seven hours before, very

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heavy rain, accompanied by vivid lightning and heavy thunder had occurred. The chart shows 1800 to 1900 fathoms water in the vicinity.

The American s.s. *Eagle*, then some 15 miles N.W. of our position, was later communicated with by wireless and her master replied that the shocks had been felt on board his vessel with such severity that the engines were stopped in the belief that the ship was running over something.—(From the *Marine Observer* for Nov. 1927, p. 208. Communicated by Dr. F. J. W. Whipple, of Kew).

1926 Nov. 5. Aboard s.s. *Eagle*, in lat. 10°N., long. 88°W., two severe shocks were felt. They were of about one minute duration, with an interval of one minute between each. The *Eagle* listed four or five degrees, and the masts, booms, riggings, and stock vibrated considerably. Capt. P. O. Nicholas, of the British steamer *Magician*, when about 17 miles distant from the *Eagle* and at the same time, experienced two severe earthquake shocks with a similar effect on the vessel.—(*Georgetown Seismol. Despatches*).

H. H. TURNER.

University Observatory, Oxford.

1930 Feb. 7.

[Note added 1930 Mar. 31. The formula $C_1 = \Delta \times .405m$. found on p. 310 for L has been tried for the earthquake of a whole year, 1925-6, and found quite unsuitable; a much larger factor, such as .477, is indicated. On the other hand this factor will not suit the numerous observations of Oct. 3d. 19h. at all; it gives negative residuals, increasing to 10m., with large values of Δ . The inference seems to be that different earthquakes may have widely different velocities for L. Further investigations are being made.]

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1926 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. 9h. 7m. 45s. Epicentre 10°·0N. 103°·0W. (as on 1925 Oct. 4d.).

A = -·222, B = -·960, C = +·174; D = -·974, E = +·225;
G = -·039, H = -·169, K = -·985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	9·3	40	2 34	+14	—	—	4·6	5·8
Tacubaya	10·1	21	2 37	+ 6	—	—	5·4	7·0
Balboa Hts. N.	23·2	90	8 23	?	10 11	+42	10·4	10·7
Tucson	23·4	343	5 23	+ 2	9 37	+ 4	11·9	14·4
Lick	32·1	331	—	—	—	—	e 15·2	18·2
Berkeley E.	32·8	331	e 6 21	-34	—	—	e 15·4	—
Chicago E.	34·5	21	—	—	—	—	e 15·0	22·0
Toronto E.	39·4	28	—	—	e 13 45	-12	19·2	26·8
Victoria	42·0	340	14 16	9S	(14 16)	- 4	18·4	21·4
Ottawa	42·4	28	e 9 51	1PR ₁	1 14 36	- 4	e 21·2	—
La Paz E.	43·5	128	8 30	+ 8	1 15 5	+10	22·6	25·6
N.	43·5	128	—	—	1 15 3	+ 8	22·7	28·0
Sucre	47·2	129	1 8 53	+ 5	1 15 58	+14	24·2	30·0
Honolulu	53·9	290	(e 9 57)	+25	(e 17 27)	+19	(22·1)	(32·2)
La Plata	62·0	140	—	—	—	—	35·8	—
Oxford	89·5	38	—	—	—	—	46·2	54·2
San Fernando E.	89·5	53	—	—	—	—	—	48·8
Granada	91·4	51	1 16 59	1PR ₁	—	—	40·6	48·2
De Bilt	93·0	36	—	—	e 24 13	-32	e 43·2	51·9
Uccle	93·0	38	—	—	e 24 6	-39	e 43·2	—
Leningrad	100·8	22	—	—	—	—	49·4	59·0
Pulkovo	101·0	22	e 18 3	1PR ₁	e 27 15	1PS	49·2	58·6
Kucino	106·6	22	—	—	e 25 23	[+28]	52·5	62·0
Ekaterinburg	111·8	10	19 42	1PR ₁	—	—	48·2	57·3
Makeyevka	112·5	27	—	—	e 29 15?	+85	54·2	61·6
Irkutsk	113·4	343	—	—	e 24 58	[-26]	e 52·2	—
Baku	123·7	25	e 34 3	?	—	—	60·2	68·8
Tashkent	128·2	6	—	—	e 27 15?	1PR ₂	e 60·2	69·6

Additional readings and notes: Tucson SR₁E = +10m.21s., SR₁E = +10m.45s., MN = +14·6m.; T₀ = 9h.7m.37s. and 9h.7m.49s., also several e readings. Chicago LE = +16·0m. Toronto eN = +9m.6s. = PR₁ - 8s., eE = +9m.8s. = PR₁ - 6s., and several other values, LN = +21·2m. Sucre PR₁ = +10m.44s., SR₁ = +19m.23s.; T₀ = 9h.7m.39s. Honolulu eE = +12m.27s. = PR₁ + 32s., eLN = +27·8m., MN = +33·6m., all readings having been increased by 5m. San Fernando MN = +49·8m. Granada MZ = +46·6m. De Bilt e = +30m.56s. = SR₁ - 14s., MZ = +55·7m. Uccle eSR₁ = +30m.30s. Leningrad MN = +62·2m., MZ = +62·3m. Pulkovo e = +32m.33s., MZ = +58·4m. Kucino e = +28m.24s. = PS + 5s., +29m.25s., and +34m.15s. = SR₁ + 15s., MN = +57·5m. Ekaterinburg e = +27m.14s. = S - 30s., +29m.4s., +34m.42s. = SR₁ - 23s. and +38m.54s., MN = +61·7m., MZ = +70·5m. Makeyevka MN = +57·8m. Irkutsk e = +36m.16s. Baku MN = +72·3m., MZ = +74·4m. Tashkent e = +39m.57s., +45m.19s., and +56m.15s.?, MN = +81·1m.

Oct. 1d. 22h. 13m. 20s. Epicentre 10°·5S. 157°·0E.

A = -·905, B = +·384, C = -·182; D = +·391, E = +·921;
G = +·168, H = -·071, K = -·983.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24·0	192	e 5 42	+14	e 9 41	- 3	e 11·7	14·9
Sydney	24·0	192	4 16	-72	9 52	+ 8	14·2	14·6
Melbourne	29·4	200	—	—	e 10 52	-32	e 14·9	16·0
Adelaide	29·7	211	—	—	11 25	- 4	15·0	19·9
Wellington	34·6	158	—	—	—	—	e 16·7	22·2
Christchurch	35·7	163	10 16	?	—	—	16·1	21·0
Manila	43·6	306	e 8 20	- 3	—	—	—	—
Perth	43·6	235	16 40	1SR ₁	—	—	—	29·3
Honolulu N.	54·4	55	—	—	e 17 8	- 6	e 23·3	25·2

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.
Irkutsk		77.3	330	12 5	+ 2	21 56	+ 4	37.7	—
Bombay		87.9	290	e 13 40?	+36	—	—	—	—
Victoria	E.	91.1	41	23 57	1S	(23 57)	-28	45.0	48.4
Tashkent		95.2	312	e 13 23	-21	24 13	[+15]	e 45.7	55.8
Ekaterinburg		102.2	326	14 5	-16	e 25 47	-30	40.7	62.9
Baku		109.8	310	e 14 43	-13	i 28 51	1PS	54.7	61.2
Kucino		114.8	327	e 19 56	1PR ₁	e 28 5	- 3	56.1	61.3
Chicago	F.	115.8	47	—	—	—	—	52.6	61.6
Leningrad		116.9	333	e 20 3	1PR ₁	—	—	56.7	67.4
Pulkovo		117.0	333	—	—	—	—	53.7	68.8
Makeyevka		117.0	319	i 20 5	1PR ₁	e 30 1	+95	56.7	66.6
Toronto	N.	121.3	43	—	—	—	—	75.7	—
Ottawa		123.2	40	—	—	e 30 40?	1PS	e 54.7	—
La Paz		127.8	120	i 49 42	?	—	—	—	—
Hamburg		129.5	334	e 22 40?	1PR ₁	—	—	e 62.7	78.7
Cheb		130.8	330	i 22 51	1PR ₁	—	—	e 63.7	82.7
De Bilt		132.6	336	e 19 29	[+ 5]	—	—	e 60.7	75.4
Uccle		133.9	336	e 21 52	1PR ₁	—	—	e 62.7	—
Kew		135.0	340	e 18 40?	[-50]	—	—	70.7	—
Rocca di Papa		135.9	320	e 20 10	[+39]	32 42	?	—	—
Algiers		144.7	321	19 46	[- 2]	—	—	(74.6)	75.2
Granada		148.1	330	i 19 57	[+ 4]	—	—	79.4	87.4
San Fernando		149.9	331	i 20 19	[+23]	e 36 10	?	76.2	114.2

Additional readings and notes: Riverview eS = +10m.0s., MN = +13.3m.,
 MZ = +14.8m. Sydney SR₁ = +12m.22s. Melbourne i = 22h.6m.0s.
 and +13m.52s. Adelaide SR₁ = +13m.17s. = SR₁ -1s., MN = +18.2m.
 Tashkent i = +13m.36s., e = +17m.12s. = [P] -15s., +21m.4s., +24m.48s. =
 S -20s., and +25m.45s. = PS -25s., MN = +56.8m., MZ = +63.8m.
 Ekaterinburg iPR₁ = +18m.21s., e = +24m.49s. = [S] +15s., eSR₁ =
 +32m.56s., MN = +54.0m., MZ = +64.6m. Baku e = +19m.17s. =
 PR₁ +1s., i = +19m.21s., MZ = +71.8m., MN = +72.5m. Kucino e =
 +27m.4s. +29m.30s., and +36m.1s. = SR₁ +19s., MN = +58.2m. Pul-
 kovo PR₁ = +20m.3s., ePPS = +29m.40s., eSR₁ = +35m.4s., MN =
 +67.3m. Makeyevka MN = +69.4m., MZ = +96.2m. Toronto eN =
 +55m.40s. Hamburg readings are given for 2d. De Bilt eZ =
 +21m.36s. = PR₁ -12s., e = +22m.54s., eLN = +63.7m., MZ = +79.0m.
 Algiers P = +74m.34s. (entered as L), S = +74m.48s., with M these are
 given as a local shock. Granada i = +24m.47s. and +28m.21s. San
 Fernando MN = +94.2m.

Oct. 1d. Readings also at 1h. (Nagasaki), 2h. (near Tashkent), 5h. (Ekaterin-
 burg, Nagasaki, and Irkutsk), 6h. (Vera Cruz, Oaxaca, and Tacubaya),
 7h. (Tucson and Victoria), 10h. (Vera Cruz, Tacubaya, Puebla, Oaxaca,
 and Tucson), 12h. (Granada, Vera Cruz, Tashkent, Oaxaca, Tucson,
 Ekaterinburg, and Tacubaya), 13h. (near Zurich), 15h. (Tacubaya), 17h.
 (Rio Tinto), 19h. (Tacubaya), 23h. (Nagasaki; also probably Algiers;
 see note to 22h.13m.20s.).

Oct. 2d. 19h. 3m. 5s. Epicentre 36°0N. 142°0E. (as on 1926 Jan. 10d.).

A = - .638, B = + .498, C = + .588; D = + .616, E = + .788;
 G = - .463, H = + .392, K = - .809.

The epicentre should almost certainly be further West and a little South; but
 the evidence for the amounts is conflicting. To use the epicentre 35°5N.
 140°0E. of 1926 Aug. 3, for instance, would suit Ekaterinburg and Mizusawa,
 but would throw out the other Japanese stations.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3.2	348	0 56	+ 6	1 37	+ 9	—	—
	N.	3.2	348	0 54	+ 4	1 35	+ 7	—	—
Osaka		5.5	258	1 23	- 2	(2 34)	+ 3	2.6	3.4
Kobe		5.8	259	1 12	-18	(2 41)	+ 2	2.7	2.9
Toyooka		5.8	268	e 1 26	- 4	(2 33)	- 6	2.6	2.9
Sumoto		6.1	256	e 1 15	-18	(2 39)	- 7	2.6	3.1
Irkutsk		31.1	313	—	—	—	—	9.9	—
Tashkent		55.4	299	—	—	—	—	e 20.9	26.4
Ekaterinburg		56.1	321	9 36	-11	e 17 22	-13	29.9	—
Baku		69.1	307	—	—	—	—	e 29.9	—

Additional readings: Osaka MN = +3.5m. Tashkent MZ = +26.3m.

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Oct. 2d. Readings also at 1h. (Nagasaki), 2h. (Nagasaki and near Sumoto), 5h. (Nagasaki), 6h. (near Sumoto), 8h. (near Mostar), 12h. and 13h. (2) (Nagasaki), 14h. (La Paz and near Batavia), 18h. (near Irkutsk).

Oct. 3d. 8h. 26m. 24s. Epicentre 37°0N. 143°0E.

(as on 1918 May 31d.).

A = -638, B = +481, C = +602; D = +602, E = +799;
G = -481, H = +362, K = -799.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	2.6	327	0 45	+ 4	1 21	+ 9	—	—
	N.	2.6	327	0 46	+ 5	1 20	+ 8	—	—
Osaka		6.5	252	1 40	+ 1	(3 6)	+ 9	3.1	4.9
Toyooka		6.7	261	0 34	-68	(e 1 54)	-68	e 1.9	4.2
Kobe		6.8	253	1 56	+12	—	—	3.8	4.2
Sumoto		7.1	251	2 2	+14	3 7	-6	3.8	4.1
Otomari		9-7	359	4 4	?S	(4 4)	-17	6.0	7.0
Hukuoka	N.	10.8	255	2 45	+ 4	—	—	5.4	—
Nagasaki		11.6	253	e 5 52	?S	(e 5 52)	+43	7.7	8.2
Zi-ka-wei		18.7	258	e 4 32	+ 7	12 19	?L	(12.3)	—
Hong Kong		28.8	248	6 9	- 7	—	—	—	20.1
Manila		29.8	227	e 6 36	+10	—	—	13.6	—
Irkutsk		31.0	313	—	—	—	—	56.6	—
Phu-Lien		35.5	255	e 12 48	?S	(e 12 48)	-15	21.8	—
Honolulu	E.	53.0	88	—	—	e 17 6	+10	e 24.8	25.9
	N.	53.0	88	—	—	e 17 16	+20	e 24.6	25.8
Tashkent		55.6	300	9 45	+ 2	1 17 30	+ 1	e 27.6	34.7
Ekaterinburg		55.8	319	19 47	+ 2	1 17 32	+ 1	24.6	35.7
Bombay		63.2	274	19 14	?S	(19 14)	+11	—	40.6
Victoria		65.4	47	—	—	20 53	+83	—	—
Kucino		67.6	325	—	—	—	—	33.2	45.0
Leningrad		68.5	330	—	—	—	—	e 35.1	42.9
Pulkovo		68.7	330	11 11	+ 2	29 11	+ 1	35.6	43.0
Baku		69.1	307	e 11 20	+ 8	e 21 16	+61	35.6	43.9
Upsala	N.	73.3	336	—	—	—	—	e 39.6	45.9
Hamburg		80.8	335	e 15 24	?PR ₁	e 22 33	0	e 43.6	45.6
Dyce		81.3	342	—	—	22 40	+ 2	41.6	53.4
Budapest		81.9	326	—	—	—	—	e 44.6	53.0
Vienna		82.5	328	e 12 35	+ 2	—	—	—	56.6
Cheb		82.7	330	—	—	—	—	e 39.6	48.6
Edinburgh		82.7	342	—	—	e 22 51	- 3	45.6	56.6
De Bilt		83.7	336	12 40	0	23 1	- 5	e 41.6	53.4
Graz		83.7	328	—	—	—	—	e 45.6	54.1
Stonyhurst		84.4	340	—	—	(e 23 4)	- 8	e 44.6	56.6
Zagreb		84.5	326	—	—	—	—	e 45.9	—
Uccle		85.0	336	—	—	—	—	—	57.7
Strasbourg		85.7	332	—	—	e 23 13	-14	e 48.6	—
Kew		85.9	338	e 12 50	- 3	e 23 12	-17	43.6	—
Oxford		86.0	338	—	—	e 23 21	- 9	42.6	55.1
Zurich		86.4	330	e 12 51	- 4	e 23 27	- 7	—	—
Chur		86.4	330	13 2	+ 7	e 23 17	[+ 7]	—	—
Paris		87.3	335	—	—	e 23 19	[+ 8]	48.6	54.6
Besançon		87.5	332	—	—	—	—	44.6	—
Florence	Z.	88.2	327	e 12 59	- 7	23 36	-18	—	54.6
Moncalieri		88.6	330	e 23 7	?[S]	(e 23 7)	[-12]	45.7	57.9
Chicago	E.	88.7	36	—	—	—	—	—	56.6
Rocca di Papa		89.0	325	e 23 33	?[S]	(e 23 33)	[+11]	e 53.1	57.4
Ottawa		90.5	26	—	—	1 24 6	-13	e 46.6	—
Toronto	E.	90.7	29	—	—	—	—	e 48.6	—
Tortosa	E.	94.9	333	—	—	—	—	e 52.6	63.0
	N.	94.9	333	—	—	—	—	e 51.6	64.0
Toledo	N.W.	97.4	335	—	—	—	—	e 48.0	60.5
Granada		99.7	334	—	—	—	—	e 57.6	65.2
San Fernando	E.	101.2	335	—	—	—	—	—	68.1

Additional readings: Osaka MN = +4.2m. Kobe MN = +4.0m. Sumoto MN = +4.6m. MZ = +5.1m. Honolulu eN = +19m.6s., SR₁N = +23m.3s., SR₁ = -17s. Tashkent ePR₁ = +11m.40s., eSR₁ = +21m.8s. Ekaterinburg PR₁ = +11m.53s., SR₁ = +21m.28s., MN = +33.0m. Kucino ePR₁ = +14m.22s., e = +14m.40s., +21m.6s., +22m.6s., and +25m.10s. = SR₁ = -6s., MN = +44.6m. Leningrad MN = +43.2m. Pulkovo PR₁ = +13m.40s., SR₁ = +24m.30s., MZ = +43.3m. Baku MNZ = +44.1m.

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Upsala ME = +46.5m. Hamburg MNZ = +50.6m. De Bilt ePR₁Z = +15m.47s., MN = +53.0m., MZ = +53.5m. Stonyhurst gives S as eL of an earlier shock. Moncalieri i = +23m.43s. = S-16s., S? = +31m.54s. Toledo MNE = +62.7m. Granada L = +62.7m. San Fernando MN = +66.6m.

Oct. 3d. 19h. 37m. 51s. Epicentre 50°-5S. 161°-0E.

A = - .601, B = + .207, C = - .772; D = + .326, E = + .946;
G = + .730, H = - .251, K = - .636.

The long series of observations of [P] is noteworthy.

Are the small values of L at many of the distant stations due to L waves starting from the antipodes on receipt of a diametral [S] shock through the earth?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Christchurch	10.6	53	2 57	+19	(4 51)	+ 6	4.8	9.2
Wellington	13.3	51	1 3 8	- 9	15 49	- 2	—	—
Melbourne	17.1	312	(12 21)	-105	(16 33)	-47	16.6	7.4
Riverview	18.2	333	14 19	0	e 7 30	-14	e 8.2	9.1
Sydney	18.2	333	4 15	- 4	e 7 39	- 5	8.4	8.6
Adelaide	22.5	305	14 59	-12	19 23	+13	i 10.5?	15.6
Suva	35.3	30	(7 15)	- 1	(13 3)	+ 3	(17.8)	(29.8)
Perth	37.9	282	7 39	+ 2	13 33	- 4	16.3	—
Apia	42.8	41	7 45	-32	14 46	+ 1	19.2	—
Ambolna	54.4	319	i 12 17	—	—	—	i 31.3	—
Malabar	61.8	295	i 10 11	-13	—	—	26.0	32.6
Batavia	63.0	295	i 10 34	+ 2	i 18 41	-20	31.4	33.7
Manila	74.0	320	e 11 33	- 9	(i 21 21)	+ 7	i 21.4	24.5
Honolulu	E. 80.4	39	e 12 27	+ 6	e 22 31	+ 3	38.6	42.2
	N. 80.4	39	e 12 51	+30	e 22 30	+ 2	38.8	40.6
Taihoku	E. 83.2	325	13 20	+43	23 14	+15	34.6	—
Hong Kong	83.8	318	12 42	+ 1	(23 14)	+ 0	23.2	35.3
Phu-Lien	85.9	310	e 12 32	-21	e 23 29	+ 0	39.2	—
Nagasaki	87.7	334	e 14 1	+58	24 35	+46	48.1	50.2
Sumoto	87.8	339	e 13 1	- 3	(e 23 37)	-13	e 29.6	24.3
La Plata	88.0	149	i 13 5	0	23 38	-14	38.2	—
Osaka	88.2	340	13 6	0	23 43	-11	33.1	43.3
Kobe	N. 88.2	340	—	—	—	—	—	49.9
Hukuoka	N. 88.3	335	(12 56)	-11.	(e 23 29)	[+12]	(e 23.5)	—
Zi-ka-wei	88.9	327	e 13 9	- 1	23 43	-19	—	73.3
Toyooka	E. 89.2	340	—	—	—	—	—	39.3
Cape Town	89.3	210	13 15	+ 3	23 15	[- 9]	36.8	37.2
Colombo	89.7	280	13 14	0	24 9	- 2	38.6	49.2
Mizusawa	91.3	346	13 29	+ 6	23 56	[+20]	34.5	—
Johannesburg	92.8	221	—	—	24 3	[+18]	37.6	—
Kodaikanal	93.8	281	e 24 9	?S	(e 24 9)	[+18]	i 39.0	58.0
Calcutta	E. 97.0	297	15 9	+75	25 12	-14	—	—
	N. 97.0	297	15 19	+85	25 23	- 3	—	—
Ootomari	98.5	348	23 9	?[S]	(23 9)	[-67]	24.7	50.6
Sucre	99.4	136	e 13 49	-18	1 24 38	[+17]	41.7	59.3
La Paz	100.3	133	e 14 5	- 7	1 24 45	[+20]	42.2	56.3
Bombay	103.3	283	14 20	- 7	25 15	[+36]	48.8	61.2
Guadalajara	109.2	80	19 42?	?PR ₁	—	—	50.6	—
Mazatlan	N. 109.3	76	—	—	—	—	50.7	—
Simla	E. 109.9	294	19 3	?PR ₁	—	—	e 45.2	58.0
	N. 109.9	294	19 9	?PR ₁	e 28 33	?PS	53.2	56.0
Berkeley	E. 111.0	54	e 20 21?	?PR ₁	e 29 21	+104	e 45.6	71.2
	N. 111.0	54	e 19 21?	?PR ₁	e 28 48?	+71	e 45.6	71.2
Lick	111.0	54	e 19 27	?PR ₁	e 29 18	+101	e 41.8	64.8
Tacubaya	111.0	84	20 5	?PR ₁	31 36	?	51.4	65.1
Tucson	N. 113.3	66	—	—	e 27 9	-47	46.4	56.6
Irkutsk	113.4	325	e 15 3	-10	e 25 43	[+19]	—	67.6
Victoria	E. 118.2	45	20 8	?PR ₁	30 52	+136	48.3	59.6
	N. 118.2	45	20 3	?PR ₁	30 52	+136	48.2	—
Sitka	E. 119.6	33	—	—	—	—	e 48.1	62.0
Spokane	120.5	50	e 19 13	[+19]	—	—	45.4	58.2
Tashkent	121.6	298	e 15 9	-41	1 30 49	+108	50.2	57.1
Denver	121.8	64	e 18 9	[-48]	—	—	50.9	60.2
Loyola	124.3	82	18 54	[-10]	27 9	[+72]	56.8	65.6
St. Louis	N. 129.9	75	e 18 32	[-46]	—	—	e 52.2	61.2

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.
San Juan	130.8	110	—	—	—	—	69.6	—
Baku	132.4	285	e 16 34	- 4	—	—	—	—
Chicago	133.4	71	e 18 21	[-65]	e 34 49	?	53.4	69.4
Ekaterinburg	135.1	310	e 16 48	- 1	1 39 33	†SR ₁	55.2	77.6
Ann Arbor	136.1	74	e 19 33	[+ 1]	e 30 9	-32	57.6	72.2
Helwan	137.4	260	e 19 29	[- 6]	—	—	—	68.5
Cheltenham E.	138.3	84	—	—	—	—	64.6	—
Platigorsk	138.6	285	e 24 43	?	—	—	—	75.2
Toronto E.	139.5	76	e 20 5	[+26]	—	—	58.2	74.3
N.	139.5	76	e 19 43	[+ 4]	—	—	58.3	72.6
Ithaca	140.6	79	i 23 29	?	—	—	60.2	—
Fordham	141.4	83	19 39	[- 3]	—	—	60.4	76.1
Ottawa	142.6	76	i 19 41	[- 3]	—	—	60.2	72.6
Makeyevka	143.6	289	19 25	[-21]	—	—	52.2	79.1
Harvard E.	144.0	81	e 19 46	[- 1]	26 9	†PR ₁	e 77.2	82.8
N.	144.0	81	16 38	?	26 15	†PR ₁	e 71.8	79.4
Kucino	146.4	300	19 46	[- 4]	—	—	59.0	117.2
Ste. Anne	147.0	76	19 57	[+ 6]	—	—	e 61.4	76.2
Athens	147.4	264	19 47	[- 5]	e 36 15	?	e 59.2	77.4
Pulkovo	151.1	308	e 19 40	[-17]	26 53	†PR ₁	62.2	85.7
Leningrad	151.2	308	e 19 44	[-13]	26 56	†PR ₁	62.6	88.0
Lemberg	152.8	285	e 20 15	[+15]	e 32 9	?	e 50.0	51.2
Belgrade	153.2	273	e 20 12	[+12]	e 34 38	?	e 51.1	105.3
Pompeii	154.5	260	e 19 39	[-22]	e 31 59	?	32.2	51.2
Naples E.	155.1	260	e 17 59	[-123]	e 29 39	?	72.2	87.2
Budapest	155.1	278	e 20 9?	[+ 7]	—	—	e 44.2	107.0
Zagreb	156.4	272	e 20 17	[+14]	—	—	e 74.2	102.2
Rocca di Papa	156.6	260	e 20 5	[+ 1]	e 31 6	†PR ₁	e 83.0	102.6
Vienna	157.1	278	e 19 43	[-22]	—	—	e 45.2	110.2
Graz	157.2	275	e 20 9	[+ 4]	e 32 43	?	60.2	116.6
Laibach	157.4	272	e 21 37	[+92]	—	—	85.6	—
Upsala	157.5	309	e 20 37	[+32]	e 44 25	†SR ₁	e 64.2	109.9
N.	158.5	264	19 54	[-12]	—	—	70.2	97.6
Florence	158.6	269	20 13	[+ 6]	31 58	†PR ₁	98.7	—
Venice	159.1	237	20 16	[+ 9]	32 36	?	60.2	88.2
Algiers	159.9	273	e 20 31	[+23]	—	—	e 45.4	98.1
Innsbruck	160.1	288	—	—	e 48 28	†SR ₁	e 105.6	—
Potsdam	160.1	281	e 20 37	[+29]	e 32 19	†PR ₁	e 60.2	107.2
Cheb	160.9	270	20 6	[- 3]	—	—	—	—
Chur	161.2	273	e 19 49	[-20]	1 35 9	?	e 79.2	112.9
Ravensburg	161.3	263	20 16	[+ 7]	45 12	†SR ₁	61.2	108.2
Moncalieri	161.7	271	e 19 52	[-17]	—	—	—	—
Zurich	161.7	276	e 19 57	[-12]	e 32 47	?	e 80.6	104.1
Hohenheim	161.9	228	20 22	[+13]	31 24	†PR ₁	1 45.2	105.1
Almeria	162.0	291	e 20 2	[- 7]	—	—	e 67.2	78.6
Hamburg	162.1	234	e 20 17	[+ 8]	30 25	?	49.5	108.0
Alicante	162.6	274	e 20 3	[- 7]	—	—	e 79.2	105.9
Strasbourg	162.7	225	e 19 57	[-13]	—	—	77.6	108.2
Granada	162.7	223	20 12	[+ 2]	29 37	†PR ₁	44.1	89.8
Malaga	162.8	246	e 20 13	[+ 3]	e 36 29	?	e 59.3	98.2
Barcelona	163.2	316	20 39	[+29]	e 32 9?	†PR ₁	58.2	102.2
Bergen	163.2	218	e 20 14	[+ 4]	37 39	?	74.2	97.2
N.	163.3	242	e 20 21	[+11]	—	—	59.6	112.9
San Fernando	163.3	242	e 20 22	[+12]	34 2	?	58.8	109.2
Tortosa	163.4	268	e 21 33	[+83]	—	—	60.2	95.2
Besançon	164.5	219	21 9?	[+58]	—	—	—	55.2
Rio Tinto	164.9	285	e 20 1	[-11]	—	—	e 68.2	112.3
De Bilt	164.9	248	e 20 14	[+ 2]	—	—	e 67.2	109.8
Bagnères	165.0	230	e 20 14	[+ 2]	e 29 7	†PR ₁	—	69.3
Toledo	165.3	280	e 20 12	[- 0]	1 45 42	†SR ₁	68.2	101.4
Uccle	166.0	271	e 20 3	[- 9]	—	—	69.2	81.2
Paris	166.3	214	e 20 24	[+12]	—	—	76.4	84.9
Lisbon	166.3	157	39 21	?	—	—	—	—
Azores	168.0	311	20 21	[+ 7]	25 45	†PR ₁	67.6	106.4
Dyce	168.2	284	20 1	[-13]	—	—	59.2	101.2
Kew	168.9	284	20 33	[+19]	—	—	46.2	104.6
Oxford E.	168.9	284	20 29	[+15]	—	—	70.2	102.2
N.	169.1	306	e 20 27	[+13]	—	—	70.2	99.6
Edinburgh	169.3	295	e 20 17	[+ 3]	1 33 14	†PR ₁	71.2	97.6
Stonyhurst	169.8	293	20 21	[+ 6]	46 21	†SR ₁	67.7	105.6
Bidston	170.6	275	20 45	[+30]	27 37	?	—	—
Plymouth	—	—	—	—	—	—	—	—

For Notes see next page.

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NOTES TO OCT. 3d. 19h. 37m. 51s.

Additional readings and notes : Melbourne S and L have been entered as P and and S respectively. Riverview i = +4m.40s. and +4m.48s., MN = +8.8m.; T₀ = 19h.33m.12s. Adelaide i = +5m.11s., iPR₁ = +5m.29s. Suva PR₁ = (+8m.9s.) and (+8m.45s.), i = (+13m.57s.); all readings have been increased by 4m. Perth P = +7m.54s. and +7m.57s.; the reading in the text is given with a query. Apia PR₂ = +10m.13s.; T₀ = 19h.36m.42s. Amboina i = +12m.41s. = PR₂ - 14s. Malabar i = +10m.48s. Batavia iP = +10m.36s., iZ = +10m.54s., iE = +19m.28s. Manila PS = +15m.40s. = PR₁ + 40s., iS = +17m.9s. = PR₁ + 27s., SR₁ = +18m.34s., MN = +27.1m. Honolulu iPE = +12m.39s., iPR₁E? = +15m.9s., ePR₁N? = +16m.27s., ePR₁E? = +16m.45s., ePR₁N? = +19m.3s., eSR₁N = +28m.15s., eSR₁N? = +30m.21s., SR₁E? = +30m.39s., SR₁N? = +32m.9s. Taihoku SR₁E = +28m.33s. = Phulion ePR₁ = +16m.8s., ePR₁ = +18m.32s., eSR₁ = +29m.14s. Sumoto eS = +17m.37s. = PR₁ + 47s. Hukuoka readings have been increased by 30m. Toyooka MN = +43.7m. Mizusawa PN = +13m.31s. Sucre iP = +14m.1s., PR₁ = +17m.31s., PR₂ = +20m.0s., PR₃ = +22m.28s., i = +24m.55s., iPS = +25m.31s., SR₁ = +30m.55s., SR₂ = +35m.55s., SR₃ = +36m.27s., T₀ = 19h.38m.33s. and 19h.39m.0s. La Paz PR = +18m.31s., PR₁ = +21m.11s., SR₁ = +29m.26s., i = +42m.0s., L = +46.8m., MN = +56.1m. Lick ePR₁E? = +22m.30s. = PR₁ + 0s., ePR₁E? = +24m.0s., = PR₁ - 22s., ePR₁E? = +25m.12s. = [S] - 2s., eSR₁E = +35m.21s. Tucson ePR₁ = +19m.17s., ePR₁E = +19m.29s., PR₁? = +20m.6s., ePPSN = +29m.27s., ePPSE = +29m.36s., eSR₁N? = +34m.39s., SR₁E = +35m.27s., SR₁N = +35m.49s. Irkutsk eP = +18m.33s. = [P] + 1s., iPR₁ = +19m.47s., e = +22m.11s. = PR₁ - 37s., eS₁PPS = +26m.57s., e = +29m.20s., S₁P₁SP = +30m.35s., MN = +68.6m., MZ = +76.6m. Sitka SR₁N = +37m.27s., MN = +62.8m. Spokane gives many other eN and iN readings, all being given for 13d. Tashkent i = +15m.54s. = P + 4s., +19m.21s. = [P] + 24s., +20m.58s. = PR₁ + 22s., e = +30m.23s., MN = +59.8m., MZ = +73.9m. Denver eE = +19m.43s., iEN = +21m.47s., eE = +22m.33s., +23m.43s. = PR₂ - 17s., and +24m.38s., eEN = +27m.41s., eN = +29m.58s., eEN = +36m.9s. St. Louis eN = +22m.54s., +24m.24s., +25m.42s. = [S] - 28s., +27m.47s. = PR₁ + 16s., +30m.45s. = S + 45s., +31m.47s., +32m.47s., and +34m.0s., ME = +67.0m. San Juan PR₁E = +22m.40s., PR₁N = +22m.45s., eN = +27m.21s. = PR₁ - 15s., eE = +35m.9s., SR₁N = +43m.45s. Baku eP = +19m.16s. = [P] - 7s., iPR₁E = +22m.10s. Chicago iPR₁E = +21m.21s., S₁P₁PE = +21m.47s., ePR₁E = +24m.17s., ePR₁E = +26m.57s., PPSE = +35m.29s. SR₁E? = +37m.21s., SR₁E = +38m.36s., eSR₁E? = +45m.21s. Ekaterinburg i = 19m.15s. = [P] - 15s., +19m.23s., +23m.10s., and +30m.33s. = S + 0s., MZ = +78.1m., MN = +78.9m. Ann Arbor [P] given as PR₁, ePR₁ = +22m.45s., = PR₁ + 36s., eSR₁ = 35m.51s., iSR₁ = +41m.15s., MN = +70.2m.; T₀ = 19h.37m.0s. Cheltenham eLN = +64.8m. Toronto eE = 22m.32s. = PR₁ + 1s., iE = +23m.18s., and +23m.28s., iN = +23m.22s., and +23m.57s., SR₁E = +41m.31s., eN = +42m.9s. Fordham P = +22m.48s. = PR₁ + 6s., iE = +23m.14s., eN = +24m.2s., and +27m.14s., eE = +26m.19s. = PR₁ - 6s., PR₂ = +27m.44s., PR₃ = +29m.4s., PR₄ = +30m.22s., e = +32m.24s., i = +33m.4s., PPS = +35m.9s., SR₁ = +42m.20s., SR₂ = +47m.2s. Ottawa iE = +23m.0s. = PR₁ + 10s., iN = +23m.50s., iSR₁? = +42m.18s., MN = +76.6m. Makeyevka e = +19m.34s., +19m.42s., +23m.50s., and +27m.26s., PR₂ = +26m.6s., PS = +33m.52s., SR₁ = +41m.53s., MN = +77.7m., MZ = +78.2m. Harvard ePN = +19m.29s. = [P] - 18s., PR₁E = +22m.33s., ePR₁ = +23m.3s., SR₁E? = +28m.41s., S₁P₁PE = SR₁ = +29m.29s. = PR₂ + 1s., eS₁P₁PE = +29m.33s. = PR₂ + 6s., PSN? = +33m.25s., ePSE? = +34m.3s., ePSN = +34m.21s., PPSN = +35m.41s., PPSE = +36m.6s., iSR₁N = +42m.39s., SR₁E = +42m.45s., SR₁E = +47m.33s., iSR₁N = +47m.46s. Kucino iPR₁ = +23m.42s., e = +26m.42s. = PR₁ - 15s., +28m.6s., +32m.8s., +34m.28s., and +39m.16s., i = +39m.47s., and +42m.27s. = SR₁ + 19s., MN = +68.7m. Ste. Anne eSR₁ = +42m.2s. Athens e = +43m.21s., MN = +77.0m. Pulkovo PR₁ = +24m.4s., PR₂ = +28m.8s., S₁P₁PS = +30m.37s. = PR₂ + 13s., S₁P₁SP = +34m.15s., PPS = +38m.47s., SR₁ = +43m.15s., SR₂ = +49m.9s., MZ = +115.1m., MN = +121.7m. Leningrad PR₁ = +24m.4s., PR₂ = +28m.27s., S₁P₁PS = +30m.27s. = PR₂ + 3s., S₁P₁SP = +34m.3s., MN = +88.8m., MZ = +114.3m. Belgrade ePE = +20m.13s., MN = +101.1m. and many i readings. Budapest MN = +103.6m. Zagreb e = +23m.33s. = PR₁ - 43s., +25m.32s., +27m.31s. = PR₂ - 32s., +34m.58s., +36m.57s., +46m.36s., and +49m.35s. = SR₂ - 40s. Rocca di Papa eN = +20m.11s., eSN = +32m.7s., eLZ = +82.2m. Vienna iPZ = +20m.12s., iPN = +20m.13s., eLN = +62.2m., and many i readings. Graz eP = +20m.21s., PR₁ = +24m.39s., PR₂ = +27m.16s., eSR₁ = +39m.33s., MN = +97.8m. Laibach i = +21m.40s., e = +29m.45s.; if the readings are all 1m. in excess these would be [P] and PR₁. Upsala MN = +96.1m. Cheb i = +44m.47s. = SR₁ + 0s. Chur i = +20m.22s.

Continued on next page.

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Ravensburg iE = +21m.15s. and +25m.9s. = PR₁ + 23s., eN = +33m.29s., eE = +43m.57s. and +60m.15s., eLN = +82.4m., MN = +111.8m. Zurich i = +20m.57s. Hohenheim ePR₁ = +24m.31s. Almeria i = +20m.49s., PR₁ = +22m.11s., PR₂ = 27m.3s., PS = +32m.0s. = PR₃ + 5s., SR₁ = +33m.33s., SR₂ = +39m.12s., MN = +91.0m. Hamburg eE = +26m.9s., iN = +27m.39s., eE = +34m.3s., MN = +73.6m., MZ = +110.2m. Alicante MZ = +90.2m. Strasbourg PR₁ = +25m.6s., i = +26m.49s., PR₂ = +28m.39s., i = +29m.54s., PR₃ = +32m.3s., MN = +99.5m. Granada iP = +20m.13s., PR₁ = +21m.41s., PS = +32m.5s. = PR₂ + 2s.; also several i readings. Malaga MN = +107.2m. Barcelona MN = +102.5m. San Fernando PR₁ = +24m.44s., iSR₁ = +45m.37s., MN = +90.2m. De Bilt MN = +101.1m., MZ = +101.3m. Bagnères e = +52m.44s. = SR₂ + 42s. and +58m.9s. = SR₃ + 32s. Toledo MZ = +91.5m., MNW = +108.3m. Uccle PR₁ = +24m.58s., MN = +92.2m., MZ = +100.1m. Paris PR₁ = +25m.26s., MN = +94.2m. Dyce i = +46m.13s. = SR₁ - 3s. and +57m.45s. Kew PR₁ = +25m.11s., MN = +97.9m. Edinburgh i = +25m.41s. and +31m.59s.

NOTE ON THE L OBSERVATIONS.—The direct L gives a time of about 0.41min. per degree in Δ from many accordant stations. There are a number of L's which would satisfy the formula 37.3m. + (189 - Δ) + 0.41m.

Oct. 3d. Readings also at 1h. (Tashkent, La Plata, near Sucre, and La Paz), 3h. (near Sucre and La Paz), 7h. (Sucre and near La Paz), 14h. (Nagasaki), 15h. (Nagasaki), 16h. (Batavia), 17h. (Nagasaki), 20h. (Wellington and near Balboa Heights (2)), 21h. (Azores, Sucre, and Taihoku).

Oct. 4d. Readings at 1h. (Nagasaki), 5h. (Irkutsk), 6h. (Ekaterinburg, Tashkent, near Mizusawa, and Nagoya), 7h. (Kucino), 9h. (Ekaterinburg and Taihoku), 13h. (Tashkent), 14h. (Taihoku), 18h. (Sucre), 21h. (Sitka), 22h. (near Tucson), 23h. (Ekaterinburg and Tashkent).

Oct. 5d. 15h. 15m. 45s. Epicentre 14°·0S. 174°·0W. (as on 1925 Dec. 31d.).

A = -·965, B = -·101, C = -·242; D = -·105, E = +·995; G = +·241, H = +·025, K = -·970.

The evidence is conflicting. The epicentre 16°·5S. 180°·0 (as on 1924 Mar. 26d.) would suit a different selection from it rather better.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Apia	2.2	86	(0 36)	+ 2	(1 14)	+14	(1.4)	(1.8)
Suva	8.4	240	i 0 21	-106	3 3	-44	4.0	6.2
Wellington	29.0	198	—	—	e 10 15?	-62	—	—
Riverview	37.2	232	—	—	—	—	e 16.2	22.4
Sydney	37.2	232	12 15	?S	(12 15)	-72	19.2	19.8
Honolulu	38.7	24	e 7 45	+ 1	—	—	e 20.8	28.6
Victoria	76.9	32	—	—	—	—	41.9	45.4
Irkutsk	96.1	322	—	—	24 23	[+20]	55.2	—
Chicago E.	96.7	49	—	—	—	—	50.2	—
Toronto E.	102.9	48	—	—	—	—	57.2	—
Ottawa	105.7	46	—	—	—	—	e 50.2	—
Ekaterinburg	120.6	329	21 20	?PR ₁	—	—	51.2	—
De Bilt	141.9	1	e 19 36	[- 7]	—	—	e 84.2	—
Kew	142.2	6	—	—	—	—	82.2	—
Paris	145.1	356	—	—	—	—	84.2	—
San Fernando	155.0	24	—	—	—	—	—	98.8
Granada	155.3	19	i 20 36	[+34]	—	—	79.8	91.0

Additional readings and notes: Apia readings are given for 16h.; they have been corrected by 1h. and further reduced by 2m. Riverview e = 15h.10m.30s. and 15h.11m.24s., MN = +18.2m. Sydney S = +16m.51s. Irkutsk e = +27m.54s. San Fernando MN = +101.2m. Granada i = +20m.39s., +22m.1s., +22m.38s., +24m.12s., and +29m.22s.

Oct. 5d. Readings also at 1h. (La Paz, Sucre, Tashkent, near Apia, and near Athens), 2h. (Ekaterinburg, Baku, Kew, and San Fernando), 7h. (Nagasaki), 11h. (Apia), 12h. (near Tacubaya), 15h. (Tashkent), 16h. and 18h. (Nagasaki), 19h. (Granada), 20h. (De Bilt, Uccle, Kew, and Tashkent), 22h. (Riverview).

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Oct. 6d. Readings at 1h. (Tashkent and near Taihoku), 5h. (Nagasaki), 10h. (near Tacubaya), 16h. (Ekaterinburg).

Oct. 7d. 0h. 48m. 54s. Epicentre 20°6S. 168°8E. (as on 1926 Feb. 3d.).

A = -0.918, B = +0.182, C = -0.352; D = +0.194, E = +0.981;
G = +0.345, H = -0.068, K = -0.936.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	9.4	76	e 2 30	+ 8	—	—	e 4.5	—
Riverview	20.5	226	e 4 51	+ 4	e 8 41	+ 7	e 10.6	12.5
Wellington	21.3	168	e 5 5	+ 8	8 37	-13	e 9.8	—
Christchurch	23.2	173	9 18	?S	(9 18)	-11	11.9	13.8
Tashkent	110.4	308	—	—	e 26 6?	-86	e 61.1	83.7
Chicago	E. 113.5	51	—	—	—	—	e 69.1	—
Ekaterinburg	117.0	324	17 18	?	e 26 0	[+23]	48.1	73.0
Toronto	119.7	50	—	—	—	—	e 62.1	—
Ottawa	122.3	47	—	—	—	—	e 55.1	—
Baku	124.9	307	—	—	—	—	e 76.1	—
Vienna	Z. 144.6	329	19 39	[- 9]	—	—	—	—
De Bilt	146.1	340	19 52	[+ 2]	—	—	e 79.1	—
Uccle	147.4	341	—	—	—	—	e 76.1	—
Kew	148.0	348	—	—	—	—	e 74.1	—
Granada	162.2	340	e 20 26	[+17]	e 40 52	?	87.1	98.9
San Fernando	E. 163.6	346	—	—	—	—	—	113.6

Additional readings: Riverview, MN = +12.1m.; T₀ = 0h.48m.51s. Tash-
kent e = +30m.6s. Ekaterinburg e = +34m.24s., MN = +77.0m. San
Fernando MN = +109.1m.

Oct. 7d. Readings also at 2h. (near Tucson), 5h. (Christchurch and Granada),
7h. (Adelaide and Riverview), 8h. (Kew), 9h. (Ekaterinburg and Taihoku)
17h. (Ekaterinburg and Tashkent), 18h. (Azores and Matuyama).

Oct. 8d. 19h. 59m. 3s. Epicentre 57°0N. 34°5W.

A = +0.449, B = -0.308, C = +0.839; D = -0.566, E = -0.824;
G = +0.691, H = -0.475, K = -0.545.

A shock about 12 minutes preceding this, and possibly from the same epicentre,
is recorded in the L phase by Edinburgh, Bidston, Stonyhurst, Kew, De Bilt,
San Fernando and Granada.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	9.4	35	—	—	(3 57?)	-16	4.0	—
Edinburgh	17.2	80	14 9	+ 2	(6 57?)	-25	7.0	11.7
Dyce	17.4	75	—	—	(7 57?)	+30	8.0	10.4
Bidston	18.1	88	(4 23)	+ 5	4 23	?P	8.6	11.6
Stonyhurst	18.3	86	14 5	-16	18 9	+22	9.0	11.0
Oxford	19.8	91	14 45	+ 6	—	—	9.4	11.2
Kew	20.5	91	e 4 50	+ 3	e 6 55	-99	10.0	12.4
De Bilt	23.1	85	5 19	+ 1	9 24	- 3	11.0	14.7
Uccle	23.3	89	e 5 20	0	9 33	+ 2	e 11.2	15.0
Paris	23.4	94	15 23	+ 2	e 9 38	+ 5	12.0	13.0
Hamburg	25.1	79	e 5 36	- 3	—	—	e 13.0	18.0
Strasbourg	26.4	90	5 57?	+ 5	e 10 41	+11	e 15.0	—
Tortosa	N. 27.6	110	e 6 20	+16	—	—	e 15.0	—
Ottawa	N. 27.8	263	—	—	1 11 25	+30	e 14.4	—
San Fernando	27.9	125	0 33	?	—	—	13.4	16.4
Cheb	28.1	84	e 7 57?	+108	—	—	—	18.0
Granada	28.4	121	16 16	+ 4	1 10 54	-12	13.6	16.8
Moncalleri	28.6	96	e 2 37?	?	—	—	14.8	—
Toronto	E. 30.9	265	—	—	e 11 30	-20	19.0	—

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.
Graz	31.5	87	—	—	—	—	e 18.0	—
Algiers	32.0	113	e 6 39	- 8	—	—	—	20.4
Leningrad	32.6	58	—	—	—	—	e 13.4	20.6
Pulkovo	32.7	58	e 4 21	-153	(11 57?)	-22	12.0	21.3
Rocca di Papa	33.4	96	e 6 27	-33	e 11 45	-45	e 14.8	—
Kucino	38.2	61	—	—	—	—	e 15.0	—
Makeyevka	42.8	70	—	—	e 15 9	+24	24.0	32.9
Ekaterinburg	47.5	48	i 8 48	- 3	e 15 33	-15	21.0	26.9
Victoria	E. 50.7	300	—	—	—	—	28.1	30.5
Baku	54.3	70	—	—	e 17 40	+27	30.4	—
Tashkent	62.8	56	i 10 40	+ 9	e 19 15	+17	e 31.0	39.4

Additional readings: Edinburgh e = 19h.56m.30s. Stonyhurst i = +6m.32s.
 De Bilt eZ = +7m.26s., MZ = +14.3m., MN = +15.3m. Paris eSE = +9m.47s.
 San Fernando MN = +15.4m. Granada i = +9m.11s. and +11m.43s. = SR₁ - 43s. Leningrad MZ = +21.4m. Pulkovo MZ = +21.5m., MN = +22.2m.; the readings should be increased by 2 min.
 Rocca di Papa eZ = +6m.43s., eEN = +10m.7s. Makeyevka e = +19m.47s. = SR₂ + 34s., MN = +28.4m., MZ = +29.6m. Ekaterinburg MN = +25.2m., MZ = +26.4m. Tashkent e = +24m.37s., +29m.3s., and +29m.57s., MN = +36.1m., MZ = +36.9m.

Oct. 8d. Readings also at 0h. (Melbourne), 1h. (near Toyooka), 7h. (Melbourne), 14h. (Port au Prince), 19h. (Kew, Stonyhurst, Bidston, Edinburgh, De Bilt, and San Fernando), 20h. (near Merida).

Oct. 9d. 19h. 16m. 0s. (I) } Epicentre 38° 0N. 42° 0E.
 20h. 20m. 48s. (II) }

A = +.586, B = +.527, C = +.616; D = +.669, E = -.743;
 G = +.458, H = +.412, K = -.788.

These observations show how much we owe to the Russian observatories, especially Tashkent and Ekaterinburg. They were obviously slight shocks, since the nearest station Baku only records S, and yet the general accord is very good.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Baku	6.6	66	—	—	e 3 3	+ 3	4.5	4.9
II	6.6	66	—	—	e 3 28	+28	e 4.7	—
I Tashkent	21.2	72	4 52	- 3	8 35	-13	e 14.0	15.7
II	21.2	72	4 52	- 3	1 8 55	+ 7	13.2	15.8
II Vienna	21.2	307	1 3 54	-61	—	—	4.1	4.1
II Graz	21.3	304	1 3 54	-62	—	—	—	4.1
I Ekaterinburg	22.6	27	5 14	+ 2	e 9 19	+ 2	13.5	—
II	22.6	27	5 10	- 2	e 9 15	- 2	12.7	—

Additional readings and notes: Baku I records S as e₁ with e₂ = +3m.34s., MN = +4.7m. Tashkent II i = +4m.59s. Vienna and Graz observations probably refer to a local shock, for which Vienna gives the epicentre 47° 5N. 16° 0E., with 9 readings comprised between 20h.24m.42s. and 20h.24m.53s.

Oct. 9d. Readings also at 1h. and 3h. (near Reykjavik), 4h. (near Batavia, near Irkutsk, and near Reykjavik (2)), 5h. (Ekaterinburg), 8h. (Nagasaki), 9h. (near Mostar), 12h. (Nagasaki), 13h. (Nagasaki and near Taihoku), 16h. (near Batavia and Malabar), 19h. (Sucre), 21h. and 22h. (Nagasaki).

Oct. 10d. Readings at 5h. and 9h. (Nagasaki), 13h. (Nagasaki and near Mizusawa), 15h. (near Tacubaya).

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Oct. 11d. 0h. 8m. 48s. Epicentre 21°-5S. 171°-5W. (as on 1924 Sept. 19d.).

A = -0920, B = -138, C = -366; D = -148, E = +989;
G = +362, H = +054, K = -930.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7.6	358	e 2 19	+24	3 4	-22	3.2	3.4
Suva	10.1	287	(i 2 24)	-7	(4 36)	+4	(5.5)	—
Wellington	22.9	209	—	—	e 9 12?	-11	e 11.2	—
Riverview	35.1	242	e 7 57	+43	e 11 55	-62	e 14.4	20.5
Melbourne	40.8	236	(e 9 42)	1PR ₁	—	—	e 9.7	11.8
Honolulu	44.8	18	—	—	—	—	—	—
Adelaide	45.5	241	—	—	14 37	-44	20.2	29.0
Tucson	79.0	49	e 12 17	+4	e 22 22	+10	e 38.2	—
Batavia	80.0	267	i 13 56	+97	—	—	—	—
Victoria	82.0	30	—	—	—	—	40.9	43.1
La Paz	95.8	110	—	—	24 27	[+26]	48.2	55.0
Sucre	97.2	114	—	—	24 29	[+20]	48.7	59.1
Chicago	99.8	50	—	—	—	—	52.4	—
Irkutsk	103.4	321	e 14 24	-3	e 27 21	1PS	55.2	—
Toronto	106.1	48	—	—	e 31 22	1SR ₁	57.2	—
Ottawa	109.0	47	—	—	i 26 53	-26	50.2	—
Tashkent	125.7	306	e 16 25	+16	i 25 10	[-51]	e 61.2	76.5
Ekaterinburg	128.2	326	i 32 0	1PS	42 4	?	66.2	82.7
Pulkovo	138.7	343	—	—	—	—	e 78.2	—
Baku	140.3	309	e 19 32	[-8]	—	—	63.2	82.0
Edinburgh	144.5	11	—	—	—	—	e 81.2	—
Hamburg	147.9	358	e 19 49	[-4]	—	—	—	—
Oxford	148.8	12	—	—	—	—	—	95.5
Kew	149.2	11	e 20 4	[+10]	—	—	80.2	—
De Bilt	149.3	3	e 19 58	[+3]	—	—	e 85.2	—
Uccle	150.5	5	—	—	—	—	e 81.2	—
Vienna	152.5	349	e 19 57	[-2]	—	—	—	—
San Fernando	160.3	38	—	—	—	—	—	100.2
Granada	161.1	31	e 20 48	[+39]	—	—	e 60.2	62.5

Additional readings and notes: Apia e = +2m.27s. Suva readings have been increased by 6m. Riverview MN = +26.4m. Honolulu eN = +20m.45s., MN = +29.4m. Adelaide SR₁ = +16m.27s., MN = +24.5m. Tucson e = +79m.0s. La Paz MN = +51.8m. Irkutsk e = +24m.40s. = [S] + 0s. Ottawa e = +34m.0s. = SR₁ - 30s. Tashkent i = +16m.28s., e = +17m.8s., +19m.48s. = [P] + 41s., and +35m.48s., MN = +69.1m. Ekaterinburg i = +32m.22s., e = +39m.2s., MN = +82.2m., MZ = +84.7m. Baku e = +22m.18s. = PR₁ - 18s., i = +23m.11s., e = +30m.45s., and +34m.48s., MN = +95.0m., MZ = +95.3m. San Fernando MN = +101.2m. Granada i = +20m.54s. and +25m.13s. = PR₁ + 18s.

Oct. 11d. 6h. 38m. 40s. Epicentre 35°-0N. 5°-0W. (as on 1923 May 17d.).

A = +816, B = -071, C = +574; D = -087, E = -996;
G = +571, H = -050, K = -819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	1.7	326	0 48	+22	1 16	+28	—	2.3
Malaga	1.8	15	i 0 33	+5	0 44	-7	—	2.7
Granada	2.4	27	i 0 39	+2	1 2	-4	—	1.8
Almeria	2.8	48	i 0 38	-6	i 0 56	-21	i 1.0	1.1
Rio Tinto	3.0	334	(1 20?)	+33	—	—	—	6.3
Alicante	4.9	46	0 51	-25	1 18	-56	—	2.5
Toledo	4.9	9	e 1 14	-2	1 2	-12	—	3.0
Algiers	6.8	72	1 29	-15	2 46	-19	—	4.1
Tortosa	7.2	35	1 41	-8	3 24	+9	3.7	4.5
Barcelona	8.5	39	(e 2 5)	-4	(e 3 24)	-26	(e 3.6)	(5.2)
Bagnères	9.0	26	e 2 21	+5	e 3 35	-28	4.5	—
Moncalieri	13.9	40	3 40	+15	—	—	6.8	8.3
Besançon	14.7	31	—	—	e 6 20?	-5	—	8.0
Paris	14.9	20	e 3 30	-8	e 5 54	-36	7.3	8.3
Florence	15.3	50	—	—	e 6 20	-19	—	10.3

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.
Rocca di Papa	15.4	59	e 3 26	-18	—	—	e 9.9	11.1
Zurich	16.0	35	e 3 42	-10	—	—	—	—
Chur	16.0	38	e 3 41	-11	—	—	—	—
Pompeii	16.4	64	—	—	—	—	0.3	—
Strasbourg	16.5	31	3 54	-5	e 5 50	-77	—	—
Ravensburg E.	16.8	36	(i 3 36)	-26	(e 7 26)	+13	e 8.2	9.2
Kew	16.8	10	—	—	e 8 16.	+63	9.3	—
Oxford	17.0	8	—	—	(7 50)	+32	7.8	10.5
Uccle	17.2	20	e 4 0	-7	e 7 13	-9	e 7.9	9.7
Innsbruck N.E.	17.3	40	i 4 15	+6	e 6 39	-46	e 10.9	13.2
Hohenheim	17.3	33	—	—	e 9 6	?	e 9.6	10.9
Bidston	18.4	4	—	—	—	—	9.8	11.6
De Bilt	18.5	20	—	—	—	—	e 8.8	10.6
Stonyhurst	19.0	5	—	—	i 8 10	+8	10.2	11.8
Zagreb	19.2	49	e 4 16	-15	e 7 51	-15	e 10.3	—
Graz	19.5	46	i 4 24	-11	e 7 56	-17	8.3	12.9
Cheb	19.7	35	—	—	e 8 0	-17	e 10.3	12.0
Vienna	20.6	43	4 35	-13	7 14	-82	—	12.3
Edinburgh	20.9	3	—	—	e 8 53	+11	—	13.2
Hamburg	21.3	25	e 4 49	-8	e 8 51	+1	e 11.3	12.4
Budapest	21.8	48	4 52	-11	—	—	e 13.3	14.7
Upsala N.	28.8	24	—	—	—	—	e 15.3	—
Pulkovo	33.6	30	—	—	—	—	e 19.3	20.6
Leningrad	33.9	30	—	—	—	—	e 16.8	—
Makeyevka	34.2	54	—	—	—	—	25.3	—
Kucino	35.7	41	—	—	—	—	16.7	—
Baku	43.1	66	—	—	—	—	e 24.3	—
Ekaterinburg	48.3	42	8 42	-14	e 15 34	-24	22.3	29.9
Ottawa	53.3	305	—	—	—	—	e 24.3	—
Tashkent	56.9	60	—	—	—	—	e 27.3	41.5
Irkutsk	73.2	38	—	—	—	—	e 41.3	—

Additional readings and notes: San Fernando MN = +2.8m. Granada i = +44s. and +57s. Almeria MN = +2.3m. Rio Tinto P has been increased by 20m.; it now accords better with S. Alicante MZ = +3.7m. Toledo iP = +1m.23s., i = +1m.42s., iSNE = +2m.15s., R_gPNW = +2m.31s. Tortosa PN = +1m.42s. Barcelona: All the readings have been diminished by 1min. Rocca di Papa ePE = +3m.48s., ePZ = +4m.37s. Strasbourg SR_g = +8m.58s. Ravensburg: All the readings have been diminished by 1min. Uccle MN = +9.8m. Hohenheim MN = +10.0m. De Bilt MN = +11.0m., MZ = +12.3m. Zagreb e = +4m.29s. Vienna iE = +5m.5s. = PR_g -3s. Hamburg MNZ = +14.2m. Ekaterinburg MN = +28.1m., MZ = +29.1m. Tashkent e = +15m.20s. ? and +23m.20s. ? MN = +43.9m.

Oct. 11d. 6h. 58m. 54s. (I)
 7h. 2m. 22s. (II)
 7h. 8m. 33s. (III)
 7h. 41m. 45s. (IV)
 21h. 50m. 12s. (V) } Epicentre 35°-0N. 5°-0W. (as at 6h.).

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
I Malaga	Z.	1.8	0 40	+12	0 56	+5	—
II	Z.	1.8	0 39	+11	0 55	+4	—
IV	Z.	1.8	0 30	+2	0 46	-5	0.8
II Granada		2.4	0 21	-16	0 45	-21	0.8
V		2.4	0 45	+8	1 6	0	1.2
I Almeria		2.8	0 35	-9	10 57	-20	1.0
II		2.8	e 0 37	-7	10 57	-20	1.0
III		2.8	—	—	0 56	-21	0.9
V		2.8	e 0 37	-7	10 57	-20	1.0
I Toledo		4.9	—	—	e 2 5	-9	1.1

Additional readings: Granada II i = +27s., v i = +1m.1s Almeria I PR_g = +50s., MN = +1.5m.

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Oct. 11d. 7h. 26m. 25s. Epicentre 8°·0N. 126°·5E. (as on 1924 Aug. 30d.).

A = -·589, B = +·796, C = +·139; D = +·804, E = +·595;
G = -·083, H = +·112, K = -·990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	8·5	321	e 2 40	+31	—	—	i 5·4	6·0
Taihoku	17·7	345	—	—	(e 7 30)	- 3	e 7·5	—
Phu-Lien	23·1	306	e 5 9	- 9	e 9 3	-24	14·1	—
Batavia	24·2	235	e 4 35	-55	i 8 52	-56	—	—
Irkutsk	47·9	343	8 48	- 5	15 46	- 7	24·6	—
Kodaikanal	48·5	276	e 19 17	?SR ₁	—	—	—	—
Melbourne	48·9	160	—	—	—	—	—	34·4
Bombay	53·1	287	16 33	?S	(16 33)	-24	—	—
Tashkent	60·4	315	i 9 14	-61	i 17 21	-67	e 27·6	36·4
Apia	65·0	110	—	—	—	—	e 51·6	—
Ekaterinburg	70·2	328	i 11 21	+ 3	i 20 29	+ 1	30·6	47·0
Baku	74·7	310	e 11 47	0	21 14	- 8	37·1	50·2
Kucino	82·6	325	—	—	e 22 35?	-18	43·4	—
Makeyevka	83·1	319	—	—	e 35 35?	?	43·6	49·1
De Bilt	102·0	327	—	—	—	—	e 52·6	—
Uccle	102·7	326	—	—	—	—	e 52·6	—
Tucson	112·2	50	—	—	—	—	e 61·4	—
San Fernando	117·2	318	—	—	—	—	—	72·6
Ottawa	123·0	17	—	—	e 31 5	?PS	e 62·6	—

Additional readings: Batavia iZ = +4m.58s. Tashkent i = +9m.42s.;
+10m.17s. and +14m.12s., e = +21m.17s., MN = +35·8m. Ekaterin-
burg i = +22m.59s., MN = +41·8m., MZ = +45·9m. Baku MN =
+45·6m., MZ = +52·2m. Kucino e = +23m.35s. ? = PS - 2s. Tucson
e = +70m.53s. San Fernando MN = +81·6m.

Oct. 11d. 18h. 36m. 45s. Epicentre 30°·5S. 70°·0W. (as on 1923 April 21d.).

A = +·295, B = -·810, C = -·508; D = -·940, E = -·342;
G = -·174, H = +·477, K = -·862.

The adopted epicentre is the nearest to that given by La Paz, 30°·5S. 69°·1W. The Sucre observations suggest an epicentre further south, say at 32°·5S. 71°·0W., or even 31°·0S. 72°·0W., as already used on 1926 May 12d. 13h.; but there is some discordance between the time determinations at Sucre and La Paz—about 30s.—which makes the solution uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	11·1	117	2 13?	-33	—	—	5·6	—
Sucre	12·3	22	e 3 13	+10	5 50	+24	6·5	7·0
La Paz	14·1	7	3 6	-21	5 54	-16	6·9	8·2

No additional readings.

Oct. 11d. 22h. 44m. 8s. Epicentre 43°·9N. 9°·5E. (as on 1921 Dec. 13d.).

A = +·711, B = +·119, C = +·693; D = +·165, E = -·986;
G = +·684, H = +·114, K = -·721.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	1·3	95	0 22	+ 2	—	—	—	0·6
Moncalieri	1·7	311	0 41	+15	1 18	+30	—	—
Venice	2·6	53	0 52?	+11	—	—	—	—
Chur	2·9	0	0 37	- 8	i 1 19	- 1	—	—
Rocca di Papa	3·2	132	1 14	+24	—	—	e 2·0	—
Zurich	3·6	350	e 0 58	+ 2	e 1 42	+ 3	—	—
Ravensburg	4·0	5	e 1 28	+26	—	—	e 2·0	2·2
Laibach	4·2	56	e 0 55	-10	—	—	12·1	—
Strasbourg	4·8	349	e 1 6	- 8	e 2 10	- 1	(e 2·6)	—
Zagreb	5·0	65	e 1 50	+33	e 2 17	+ 2	—	—
Vienna	z.	6·5	45	e 3 4	?S (e 3 4)	+ 7	i 3·4	—

Additional readings: Ravensburg eE = +1m.37s. Laibach e = +1m.28s.,
i = +2m.7s. Strasbourg eP? = +1m.47s., eS = +2m.38s. = L?, i =
+2m.50s. = L? Zagreb e = +2m.19s., i = +2m.30s., +2m.36s., and
+2m.43s.

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Oct. 11d. Readings also at 1h. (Granada), 2h. (Toronto), 6h. (near Irkutsk), 7h. (Batavia, Granada (4)), 10h. (Ekaterinburg), 11h. (Baku and Nagasaki), 23h. (near Athens).

Oct. 12d. 1h. 55m. 0s. Epicentre 1°0S. 99°0E. (as on 1913 Oct. 29d.).

A = -0.156, B = +0.988, C = -0.017; D = +0.988, E = +0.156;
G = +0.003, H = -0.017, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	9.3	123	—	—	14 12	+ 2	—	—
Phu-Lien	23.0	19	—	—	e 9 32	+ 7	13.0	—
Kodaikanal	24.2	298	e 13 0	?L	—	—	(e 13.0)	—
Hyderabad	27.4	313	—	—	10 27	-21	—	—
Hong Kong	27.6	32	—	—	—	—	—	20.7
Bombay	32.5	309	10 44	?S	(10 44)	-92	—	—
Simla	38.2	329	—	—	—	—	e 19.0	—
Tashkent	50.2	331	e 21 0?	?	27 0?	?	39.0	55.0
Irkutsk	53.5	4	e 9 27	-3	e 17 1	-2	30.0	—
Ekaterinburg	65.5	338	10 47	-1	19 27	-4	35.0	—

Additional readings: Batavia iE = +8m.14s. Simla eN = +61m.42s.
Tashkent MN = +45.0m.

Oct. 12d. 11h. 57m. 5s. Epicentre 41°0N. 21°5E. (as on 1924 April 25d.).

A = +0.702, B = +0.277, C = +0.656; D = +0.366, E = -0.930;
G = +0.610, H = +0.240, K = -0.755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3.3	150	—	—	—	—	e 2.5	3.7
Mostar	3.6	313	0 45	-11	1 7	-32	—	1.3
Belgrade	3.9	349	e 0 57	-4	11 28	-19	—	1.7
Pompeii	5.3	270	e 0 55	-28	e 2 3	-22	—	—
Naples	5.5	271	e 0 59	-26	e 2 31	0	—	—
Zagreb	6.2	322	e 1 34	-1	12 25	-14	i 3.2	—
Rocca di Papa	6.7	280	1 49	+ 7	e 3 0	-2	—	4.1
	6.7	280	1 50	+ 8	13 15	+13	—	3.9
Budapest	6.7	346	1 35	-7	—	—	e 3.9	—
Laibach	7.2	317	1 23	-26	12 2	-73	—	3.8
Graz	7.4	327	e 1 45	-7	13 25	+ 4	—	3.8
Venice	8.0	307	i 1 25	-36	e 2 43	-54	—	3.1
Vienna	8.1	335	e 2 4	+ 1	3 30	-10	i 3.7	4.2
Florence	8.1	294	2 0	-3	—	—	—	4.4
Innsbruck	9.6	314	e 2 14	-10	4 8	-10	—	4.8
Chur	10.4	308	e 2 28	-8	14 24	-16	—	—
Moncalieri	10.8	296	3 13	+32	5 11	+21	—	—
Ravensburg	10.9	313	i 3 6	+23	e 4 8	-44	i 4.8	5.4
Zurich	11.2	309	e 2 41	-6	e 4 58	-1	—	—
Strasbourg	12.3	312	e 3 36	+33	e 5 26	0	6.2	—
Besançon	12.7	305	2 55?	-14	—	—	—	—
De Bilt	15.8	320	—	—	—	—	e 7.9	—
Kew	18.2	312	—	—	—	—	—	8.9
Granada	19.8	267	i 4 50	+11	e 8 21	+ 2	e 9.3	11.4
Baku	21.4	82	—	—	e 9 39	?SR ₁	—	—
Ekaterinburg	29.6	44	—	—	—	—	15.9	—

Additional readings: Belgrade iP = +1m.11s. Epicentre 42°50'N. 19°53'E.
Zagreb eP = +1m.43s., iP = +1m.48s., i = +2m.0s., +2m.30s., +2m.33s.,
+2m.39s., and +3m.24s., iS = +2m.47s. Rocca di Papa eN = +1m.35s.
Laibach P = +1m.42s., iSR₁ = +3m.10s. Vienna PR₂ = +2m.51s.,
and +3m.17s. Strasbourg P? = +3m.54s., i = +5m.56s.

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Oct. 12d. 12h. 48m. 20s. (i) } Epicentre 43°-0N. 21°-0E. (as on 1922 June 9d.).
 13h. 2m. 48s. (ii)

A = +.683, B = +.262, C = +.682; D = +.358, E = -.934;
 G = +.637, H = +.244, K = -.731.

	Δ	Az.	P.	O-C	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Belgrade	1.9	348	e 0 31	+ 2	i 1 2	+ 9	—	1.1
II	1.9	348	e 0 33	+ 4	e 1 4	+11	—	1.1
I Sarajevo	2.1	295	e 0 16	-17	0 40	-18	—	0.7
I Mostar	2.3	279	(0 43)	+ 7	(1 3)	0	—	(1.2)
II	2.3	279	(0 48)	+12	(1 9)	+ 6	—	(1.3)
I Zagreb	4.5	310	e 1 14	+ 4	i 2 14	+10	i 2.4	—
II	4.5	310	e 1 12 [†]	+ 2	i 2 12	+ 8	—	—
I Laibach	5.5	306	e 0 25	-60	1 42	-49	—	3.2
I Rocca di Papa	6.2	261	e 2 0	+25	i 3 13	+24	—	3.3
I Venice	6.6	294	1 52	+11	—	—	—	—
I Chur	9.0	299	—	—	—	—	e 3.4	—
I Moncalieri	9.7	286	—	—	—	—	e 5.1	—
I Zurich	9.8	301	e 3 14	+47	—	—	—	—
II	9.8	301	—	—	—	—	e 4.4	—
I Strasbourg	10.8	306	—	—	—	—	4.7	—

Additional readings and notes: Belgrade I eP = +32s., iP = +38s. and +40s., iS = +1m.3s., II iS = +1m.5s. Mostar I and II all readings have been increased by 1min. Zagreb I e = +1m.17s., +1m.22s., +1m.29s., and +2m.7s.; II e = +1m.19s. Laibach I e = +42s. Rocca di Papa I MN = +3.4m.

Oct. 12d. Readings also at 1h. (Batavia, Berkeley, and Lick), 2h. (Ekaterinburg, near Almeria, and Granada), 3h. (Baku, Pulkovo, Leningrad, and Tashkent), 4h. (near Malaga), 5h. (near Toyooka), 8h. (near Granada, Malaga, and Almeria), 9h. (near Malaga, Granada, and Almeria), 12h. (Nagasaki, near Sumoto, near Taihoku, and near Tacubaya), 13h. (Nagasaki), 14h. (Nagasaki and near Almeria), 15h. (Ekaterinburg, Baku, Tashkent, and Nagasaki), 16h. (Tashkent, near Malaga, and near Apia), 17h. (Ekaterinburg and Baku), 18h. (near Belgrade and Mostar), 19h. (near Belgrade and Mostar), 22h. (La Paz).

Oct. 13d. 6h. 2m. 18s. Epicentre 51°-0N, 179°-5W.

(as on 1924 Aug. 21d.).

A = -.629, B = -.005, C = +.777; D = -.009, E = +.1000;
 G = -.777, H = -.007, K = -.629.

	Δ	Az.	P.	O-C	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	24.9	275	5 30	- 7	(9 57)	- 4	10.0	—
Sitka	N. 26.1	59	—	—	e 10 24	0	14.1	18.9
Mizusawa	E. 29.8	262	(6 13)	-13	6 13	†P	13.8	—
Honolulu	E. 34.1	142	e 6 54	-12	i 12 22	-20	15.3	17.5
	N. 34.1	142	e 7 0	- 6	i 12 22	-20	i 15.4	17.3
Victoria	E. 35.6	73	7 6	-12	12 41	-23	17.2	17.7
	N. 35.6	73	7 5	-13	12 41	-23	16.0	16.4
Toyooka	35.9	265	8 16	+55	—	—	16.5	19.7
Osaka	36.1	262	7 8	-15	(12 49)	-22	12.8	21.1
Kobe	E. 36.3	264	—	—	—	—	—	19.4
Sumoto	36.7	263	7 5	-23	12 55	-25	19.4	21.6
Spokane	N. 39.4	70	17 36	-14	i 13 35	-22	e 17.9	24.2
Hukuoka	N. 39.9	267	13 44	†S	(13 44)	-21	18.4	—
Nagasaki	40.9	266	7 51	-11	14 10	-10	19.3	20.6
Berkeley	E. 41.7	86	e 7 54	-15	e 14 24	- 7	e 19.7	21.8
	N. 41.7	86	e 7 54	-15	e 14 0	-31	—	21.5
Lick	N. 42.5	87	e 8 7	- 8	e 14 30	-12	e 17.9	22.3
Irkutsk	45.0	304	18 20	-13	15 13	- 2	22.7	27.2
Zi-ka-wei	47.2	270	18 37	-11	15 35	- 9	—	25.0

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Denver	E.	51.3	73	e 8 48	-27	1 16 4	-31	i 23.4	27.1
Taihoku	E.	51.4	265	e 8 30	-46	16 27	-9	24.8	23.8
Tucson		52.5	85	e 9 21	-2	16 50	0	e 26.0	23.7
Hong Kong		53.0	269	7 52?	-127	17 58	-1		32.7
Manila		59.7	259	e 9 17	-53				
Chicago	E.	60.0	60	10 43	+31	18 52	+29	e 28.6	
St. Louis		60.6	65	e 10 19	+3	e 18 32	+1	24.7	23.2
Ekaterinburg		61.3	329					24.7	37.4
Ann Arbor		61.6	57	e 9 30	-53	e 18 54	+11	32.9	39.7
Toronto	E.	62.8	53	e 10 33	+2	1 18 59	+1	29.2	33.2
	N.	62.8	53	e 10 29	-2	1 19 2	+3	e 29.4	37.7
		63.4	50	i 10 40	+6	1 19 10	+4	e 29.7	41.7
Ottawa		63.9	273			e 19 10	-2	32.2	
Phu-Lien		64.6	46	e 10 45	+3	e 19 16	-4	31.7	40.7
Ste. Anne		65.2	52			e 19 29	+2	31.7	
Ithaca		65.2	172			e 19 32	+5	29.4	
Apia		66.4	346	1 10 54	0	e 19 41	-1	32.7	40.4
Leningrad		66.6	346	1 10 57	+2	e 19 43	-2		45.9
Pulkovo		66.8	72	e 10 52	-5	e 18 57	-51		41.2
Loyola		67.6	54	e 10 57	-5	20 7	+10	31.2	34.9
Fordham		67.8	50			20 10	+10	e 31.7	37.4
Harvard	N.	68.3	353	11 6	0	e 20 2	-4	e 30.7	43.8
Upsala		68.5	353					e 47.7	
Bergen		68.8	340	11 30	+20	20 30	+18	33.5	41.3
Kucino		69.0	87	11 11	0	20 18	+4	34.7	
Tacubaya		70.0	314	(1 11 19)	+2	(20 34)	+8	(e 32.6)	(36.3)
Tashkent		71.7	2			20 44	-2	37.7	49.7
Dyce		73.0	3					e 35.7	
Edinburgh		73.9	300	e 11 12	-29	20 54	-19	33.4	42.8
Simla	E.	73.9	300	11 18	-23	20 54	-19	38.4	44.6
Stonyhurst	N.	75.0	2					e 37.7	56.7
Hamburg		75.1	355	e 11 47	-3	e 21 36	+9	e 33.7	39.7
De Bilt		76.8	357	12 2	+2	21 47	0	e 32.7	49.7
Oxford		77.2	2			e 21 53	+2	29.3	60.7
Kew		77.5	0	e 12 1	-3	22 50	?	39.7	54.8
Piatigorsk		78.0	330					36.7	
Uccle		78.1	358	e 12 3	-5	e 21 58	-3	e 32.7	50.4
Cheb		78.4	353	e 12 7	-2	e 22 42?	?	e 33.7	51.7
Baku		79.0	324	1 12 11	-2	22 12	0	e 40.7	44.2
Vienna		79.8	350	12 8	-10			e 40.7	50.7
Hohenheim	N.	80.0	356	e 12 14	-5			e 28.0	55.7
Strasbourg		80.2	356	12 15	-5	23 0	?	e 37.7	54.1
Paris		80.2	359	e 12 17	-3	e 22 21	-4	41.7	54.7
Ravensburg	E.	80.8	356	e 12 22	-2			e 28.2	54.6
	N.	80.8	356	e 11 18	-66	e 23 2	?	e 28.4	56.3
Graz		81.0	350	e 12 21	-4	e 23 3	?	39.7	51.1
Innsbruck n.w.		81.2	355	e 12 17	-9				53.1
Zurich		81.4	356	e 12 20	-7	e 22 23	-16		
Besançon		81.7	357					47.7	
Chur		81.9	356	1 12 25	-5	22 42	-3		
Zagreb		82.2	350	e 12 28	-3	e 22 53	+5		56.4
Laibach		82.2	351	e 12 28	-3			e 44.7	53.7
Belgrade		82.6	347	1 12 32	-2	e 23 27	?	e 49.7	56.6
Moncalieri		83.8	355	12 27	-14	22 54	-13	38.0	58.4
Hyderabad		83.8	291	12 32	-9	22 58	-9	43.7	52.7
Mostar		84.4	349	11 44	-60				
Batavia		84.6	257	e 12 18	-23	1 23 3	-12		
Florence		84.7	354	12 42	-4	23 12	-4	52.7	59.2
Bombay		85.9	297	12 43	-10	23 22	-7	44.1	53.4
Rocca di Papa		86.6	351	12 49	-8	e 23 9	[+3]	e 47.2	
Naples	E.	87.3	350	e 11 42	-79	e 23 42	-2	46.7	
Pompeii		87.4	350	e 12 42	-19	e 22 18	[-53]	46.3	
Barcelona		87.5	359					e 49.8	59.2
Tortosa	N.	88.2	0	12 54	-12			e 29.7	59.1
Riverview		88.7	204	e 12 56	-13	e 23 20	[0]	e 41.9	47.4
Sydney		88.7	204	23 30	?	(23 30)	[+10]	46.2	52.1
Athens		88.8	343			e 23 36	[+15]	e 35.2	55.0
Toledo		89.0	5	13 0	-10	23 34	[+12]	e 39.4	63.0
San Juan	N.	89.5	61					e 47.7	59.7
Kodaikanal		90.1	286	e 22 36	?	(e 22 36)	[-55]	1 51.4	60.9
Alicante		90.7	1					58.2	
Colombo		91.2	282	13 12	-10				64.7
Granada		91.8	5	13 11	-15			e 45.7	60.7
Almeria		92.1	3	e 13 11	-17	24 18	-18	41.6	65.2

Continued on next page.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Malaga	92.2	5	e 13 7	-21	e 23 59	[+18]	33.2	59.6
Algiers	92.2	358	e 13 12	-16	e 23 58	[+17]	46.7	58.7
Wellington	92.4	185	e 10 52	-157	1 23 38	[- 4]	44.8	47.2
San Fernando	92.4	5	12 24	-65	23 52	[+10]	44.7	61.2
Adelaide	93.5	215	—	—	e 23 46	[- 3]	e 45.5	51.4
Melbourne	94.1	209	—	—	e 24 18	[+26]	—	57.5
Christchurch	94.8	187	—	—	(24 36)	-28	46.7	53.6
La Paz	116.2	84	18 55	[+13]	30 1	?	56.2	75.6
Sucre	119.9	84	e 18 41	[-11]	1 30 22	?	56.7	68.4
La Plata	135.7	92	19 29	[- 2]	—	—	65.7	—

Additional readings and notes : Sitka eSR₁E? = +11m.15s., SR₁N = +11m.15s., eLE = +13.3m., ME = +17.4m. Mizusawa P = 6h.0m.53s. Honolulu iPN = +7m.3s., ePR₁N = +7m.42s., ePR₁E = +7m.48s., eSR₁E = +14m.6s., eSR₁N = +14m.18s.; T₀ = 6h.2m.3s. and 6h.2m.18s. Toyooka MN = +18.3m. Osaka MN = +20.0m. Spokane iSE = +13m.38s.; Is L really SR₁? Hukuoka readings have been diminished by 1h. Berkeley eZ = +8m.0s.?, eN = +10m.12s.? = PR₁-3s., and +17m.43s.? = SR₁+21s., eE = +17m.30s.? Lick : Is L really SR₁? Irkutsk MZ = +27.1m., MN = +27.5m. Denver iPE = +8m.54s. Taihoku SR₁E = +20m.45s. Tucson e = +9m.40s., PR₁N = +10m.58s., PR₁E = +11m.17s., PSN = +16m.57s., SeSE = +19m.25s., SR₁N = +20m.13s., SR₁E = +20m.28s., LN? = +22.6m., MN = +26.6m.; T₀ = 6h.2m.13s. and 6h.2m.16s. Chicago eP₀PE = +11m.36s., ePR₁E = +13m.27s., PR₁E = +14m.36s., eE = +16m.0s., PSE = +19m.15s., iS₀SE = +20m.50s., SR₁E? = +22m.48s., eSR₁E? = +24m.24s., eSR₁E = +27m.0s. St. Louis : Is L really SR₁? Ekaterinburg MZ = +36.6m.; is L really SR₁? Ann Arbor eE = +11m.18s., eLN = +29.8m., MN = +38.9m., and several eE and eN readings. Toronto eE = +18m.50s., eN = +18m.53s., iE = +19m.5s., iN = +20m.4s.; T₀ = 6h.2m.27s. Ottawa eSR₁ = +24m.3s., iSR₁ = +26m.8s., MN = +34.4m.; T₀ = 6h.2m.29s. Ste. Anne eSR₁ = +24m.5s.; T₀ = 6h.2m.33s. Apia e = +24m.20s. = SR₁-16s. Leningrad PR₁ = +13m.54s., iPS = +20m.12s., iS₀P,S = +21m.8s., eSR₁ = +24m.30s., eSR₁ = +26m.54s., MZ = +44.6m. Pulkovo PR₁ = +15m.9s. = PR₁-12s., iPS = +20m.7s., SR₁ = +24m.42s., SR₁ = +27m.42s., MN = +40.1m., MZ = +45.8m., Fordham PR₁ = +15m.7s., eN = +17m.30s., e = +21m.2s. Harvard SR₁N = +25m.10s., SR₁N = +27m.38s., eSR₁E = +28m.0s., eLE = +32.1m., ME = +36.2m. Upsala MN = +44.1m. Kucino PR₁ = +14m.0s., SR₁ = +25m.42s., MN = +45.3m. Tashkent e = (+14m.7s.) = PR₁-19s., (+21m.32s.) = [S] +20s., (25m.54s.) = SR₁+4s., and (28m.34s.) = SR₁-1s., MN = (+36.6m.), MZ = (+46.4m.); all the readings have been increased by 3min. Hamburg PS = +22m.10s., SR₁ = +26m.42s., eLN = +36.7m., MNZ = +51.7m. De Bilt MN = +55.0m., MZ = +55.4m. Uccle MN = +51.4m. Baku PR₁ = +18m.33s. = PR₁+1s., SR₁ = +27m.49s., MZ = +50.2m. Vienna iN = +14m.21s., PR₁ = +16m.55s., PPS = +22m.47s., SR₁ = +27m.56s. Hohenheim eN = +9m.58s., eLE = +32.9m., ME = +48.9m.; is L really SR₁? Ravensburg : Are the L readings really SR₁? Zagreb e = +13m.28s., +23m.48s. = PS +15s., and +25m.49s. Laibach e = +13m.38s. and +16m.43s. = PR₁+35s. Moncalieri MN = +59.2m. Batavia readings are given simply as e and iE. Barcelona MN = +60.4m. Tortosa eLE = +33.7m., ME = +59.6m.; is L really SR₁? Riverview SR₁ = +30m.3s., MN = +45.6m., MZ = +46.1m. Athens eLN = +30.2m., MN = +57.0m. Toledo iP = +13m.6s., MNW = +63.4m. Granada PR₁ = +16m.59s., PR₁ = +19m.56s., SPS = +23m.29s., PS = +25m.44s., PPS = +26m.32s., i = +29m.9s., SR₁ = +31m.22s. Almeria MN = +64.1m. Algiers MN = +61.2m. Wellington iSE = +23m.44s., SR₁ = +31m.48s., LN = +45.5m. San Fernando MN = +60.2m. Adelaide MN = +50.5m. Melbourne e = +22m.54s. Christchurch S is given as SR₁? La Paz PE = +19m.35s. = PR₁-25s., PR₁ = +22m.39s. = PR₁-23s., SR₁ = +36m.2s., SR₁ = +40m.34s., MN = +63.2m. Sucre iPR₁ = +20m.22s., PR₁ = +23m.1s. = PR₁-42s., PS = +31m.5s., SR₁ = +36m.59s., SR₁ = +39m.32s., SR₁ = +44m.40s.

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Oct. 13d. 14h. 17m. 42s. Epicentre 51°0N. 179°5W.

(as at 6h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	26.1	59	5 51	+ 2	10 24	0	e 13.3	15.5
Honolulu	E. 34.1	142	7 18	+12	i 12 27	-15	i 17.2	—
	N. 34.1	142	i 6 59	- 7	i 12 27	-15	i 15.9	17.0
Victoria	E. 35.6	73	7 8	-10	12 39	-25	17.3	17.7
	N. 35.6	73	7 13	- 5	12 44	-20	17.3	18.1
Osaka	36.1	262	6 59	-24	(12 53)	-18	12.9	17.8
Spokane	39.4	70	i 8 10	+20	e 14 0	+ 3	e 17.8	24.8
Nagasaki	40.9	266	e 7 51	-11	14 13	- 7	19.4	23.3
Berkeley	E. 41.7	86	e 7 48	-21	e 14 17	-14	e 20.0	—
	N. 41.7	86	e 8 0	- 9	e 14 18	-13	—	—
Lick	42.5	87	—	—	e 14 30	-12	e 24.5	—
Irkutsk	45.0	304	i 8 21	-12	15 4	-11	22.3	27.2
Zi-ka-wei	47.2	270	i 8 37	-11	19 54	+250	—	27.4
Denver	51.3	73	e 8 49	-26	e 16 5	-30	—	26.3
Taihoku	E. 51.4	265	—	—	e 17 53	+77	—	—
Tucson	52.5	85	9 29	+ 6	e 16 50	0	25.3	29.5
Hong Kong	53.0	269	9 58	- 1	—	—	—	31.8
Manila	59.7	259	e 10 18	+ 8	—	—	—	—
Chicago	E. 60.0	60	e 10 49	+37	i 18 58	+35	e 31.1	35.6
St. Louis	60.6	65	e 10 20	+ 4	e 18 34	+ 3	28.7	39.7
Ekaterinburg	61.3	329	i 10 22	+ 1	i 18 46	+ 6	27.3	34.5
Ann Arbor	61.6	57	(e 10 6)	-17	(i 18 24)	-19	(31.2)	(32.0)
Toronto	E. 62.8	53	i 10 37	+ 6	e 19 1	+ 3	29.6	35.6
	N. 62.8	53	e 10 33	+ 2	—	—	29.4	37.3
Ottawa	63.4	50	i 10 39	+ 5	e 19 4	- 2	e 29.3	35.0
Phu-Lien	63.9	273	—	—	e 20 37	+85	e 33.3	—
Ste. Anne	64.6	46	e 10 50	+ 8	e 19 16	- 4	e 32.3	41.3
Ithaca	65.2	52	—	—	e 19 20	- 7	31.3	—
Apia	65.2	172	—	—	e 20 3	?PS	30.3	—
Leningrad	66.4	346	i 10 55	+ 1	19 43	+ 1	32.2	40.6
Pulkovo	66.6	346	i 10 57	+ 2	i 19 43	- 2	32.3	38.6
Loyola	66.8	72	e 10 38	-19	—	—	e 38.7	44.6
Fordham	67.6	54	e 10 39	-23	18 59	-58	30.8	36.2
Harvard	67.8	50	—	—	—	—	e 31.2	36.3
Upsala	68.3	353	e 11 6	0	e 20 1	- 5	e 27.8	42.0
Kucino	68.8	340	11 24	+14	20 30	+18	33.4	42.0
Tacubaya	69.0	87	11 15	+ 4	20 26	+12	34.7	—
Tashkent	70.0	314	11 7	-10	i 20 30	+ 4	34.1	37.6
Dyce	71.7	2	—	—	i 20 41	- 5	37.6	47.4
Simla	E. 73.9	300	11 18	-23	20 54	-19	e 42.8	—
	N. 73.9	300	11 6	-35	20 54	-19	41.1	44.2
Stonyhurst	75.0	2	—	—	—	—	e 31.3	42.3
Hamburg	75.1	355	e 11 48	- 2	e 21 30	+ 3	e 37.3	49.3
Makeyevka	75.9	336	e 11 51	- 3	e 21 37	+ 1	27.3	45.5
De Bilt	76.8	357	12 5	+ 5	21 50	+ 3	e 32.3	49.8
Oxford	77.2	2	11 33	-29	21 58	+ 7	29.8	47.8
Kew	77.5	0	—	—	22 56	+61	39.3	54.2
Piatigorsk	78.0	330	—	—	—	—	36.3	—
Uccle	78.1	358	e 12 10	+ 2	22 5	+ 4	e 33.3	50.4
Cheb	78.4	353	—	—	e 22 18?	+13	e 34.3	51.3
Baku	79.0	324	i 13 11	+58	22 18	+ 6	37.3	—
Vienna	79.8	350	e 12 14	- 4	22 33	+12	e 37.3	53.3
Hohenheim	80.0	356	—	—	—	—	e 40.8	49.0
Strasbourg	80.2	356	e 12 20	0	—	—	e 42.3	—
Paris	80.2	359	e 12 28	+ 8	—	—	41.3	51.3
Budapest	80.2	348	12 13	- 7	22 30	+ 5	e 37.8	53.7
Ravensburg	80.8	356	—	—	—	—	e 42.0	49.9
Graz	81.0	350	i 12 22	- 3	e 23 33	+58	39.3	53.3
Innsbruck	81.2	355	e 12 20	- 6	e 22 46	+ 9	e 39.0	—
Zurich	81.4	356	e 12 22	- 5	i 22 44	+ 5	—	—
Besançon	81.7	357	—	—	—	—	48.3	—
Chur	81.9	356	i 12 28	- 2	—	—	—	—
Zagreb	82.2	350	e 12 33	+ 2	e 22 43	- 5	e 44.3	56.4
Belgrade	82.6	347	e 12 29	- 5	e 22 48	- 5	e 46.4	—
Venice	83.0	352	12 18?	-18	—	—	—	—
Moncalieri	83.8	355	12 36	- 5	23 2	- 5	37.0	53.6
Batavia	84.6	257	e 11 54	-52	—	—	—	—
Florence	84.7	354	12 38	- 8	23 18	+ 2	35.3	51.3
Bombay	85.9	297	12 43	-10	23 20	- 9	44.4	53.2

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.
Bagnères	86.0	0	—	—	e 23 10	[+ 7]	e 44.3	—
Rocca di Papa	86.6	351	e 12 47	-10	e 23 10	[+ 4]	e 43.3	—
Naples	87.3	350	e 12 18?	-43	e 23 18?	[+10]	52.5	—
Pompeii	87.4	350	e 11 54	-67	e 22 58	-47	53.3	—
Barcelona	87.5	359	—	—	—	—	e 36.5	56.2
Tortosa	88.2	0	e 13 18?	+12	23 24	[+ 8]	36.4	59.4
Riverview	88.7	204	e 13 28	+19	e 23 51	- 9	e 41.5	46.5
Sydney	88.7	204	—	—	—	—	47.5	52.2
Athens	88.8	343	—	—	e 23 13	[- 8]	e 34.3	46.8
Toledo	89.0	5	e 12 59	-11	23 29	[+ 7]	e 39.3	57.2
San Juan	89.5	61	—	—	—	—	e 50.3	52.3
Alicante	90.7	1	—	—	—	—	62.3	—
Colombo	91.2	282	13 18	- 4	—	—	—	62.3
Granada	91.8	5	1 13 18	- 8	e 24 15	-18	37.3	—
Almeria	92.1	3	e 13 50	+22	e 24 9	-27	39.2	44.7
Malaga	92.2	5	—	—	—	—	e 40.5	—
Algiers	92.2	358	—	—	e 23 43	[+ 2]	41.3	59.3
Wellington	92.4	185	—	—	e 23 48	[+ 6]	e 43.3	—
San Fernando	92.4	5	12 29	-60	23 59	[+17]	46.3	51.3
Adelaide	93.5	215	—	—	—	—	e 47.3	52.6
Melbourne	94.1	209	—	—	i 25 12	+15	e 43.6	57.6
La Paz	116.2	84	e 19 37	?PR ₁	29 42	+82	55.8	70.7
Sucre	119.9	84	e 19 31	?PR ₁	e 31 3	?	57.3	68.3
La Plata	135.7	92	—	—	—	—	64.0	—
Cape Town	158.5	316	31 48	?PR ₂	—	—	—	94.8

Additional readings and notes: Sitka eSR₁N = +11m.4s., eLN = +12.6m., MN = +18.7m. Honolulu iPR₁N = +8m.2s., SR₁E = +13m.58s., SR₁N = +14m.12s.; T₀ = 14h.17m.32s. and 14h.17m.47s. Spokane iPN = +8m.12s., eN = +17m.11s., =SR₁-10s. Berkeley eE = +17m.34s. = SR₁+12s., eN = +17m.41s. = SR₁+19s. Lick eN = +17m.54s. = SR₁+16s. Irkutsk MZ = +25.7m., MN = +27.1m. Denver iPE = +8m.55s., iSE = +16m.10s., PSE = +16m.19s., MN = +28.3m. Tucson PR₁N = +11m.28s., PSN? = +16m.57s., PSE = +17m.7s., ScSN? = +18m.54s., SR₁E = +20m.36s., SR₁N = +20m.29s., eLN = +22.8m., MN = +26.8m.; T₀ = 14h.17m.52s. and 14h.17m.57s. Chicago ePR₁E = +13m.8s., ePR₁E = +14m.36s. = PR₂+0s., PSE = +19m.13s., ScSE? = +20m.38s., iScSE? = +20m.56s., SR₁E = +22m.6s., SR₂E = +24m.42s., SR₁E? = +26m.12s. St. Louis MN = +40.5m. Ekaterinburg iPR₁ = +12m.38s., iPR₂ = +14m.17s., i = +20m.3s., +22m.15s., +23m.6s. = SR₁+24s., +23m.59s., and +24m.18s., MN = +35.7m., MZ = +39.0m. Ann Arbor ePR₁ = (+12m.48s.) = PR₁-24s., eSR₁ = (+24m.12s.) = SR₁+36s., eLN = (+28.3m.), MN = (+31.7m.); all the readings have been diminished by 2m. Ottawa iSR₂ = +26m.3s., MN = +38.3m.; T₀ = 14h.17m.58s. Ste. Anne ePR₂ = +14m.44s., eSR₁ = +24m.6s.; T₀ = 14h.18m.7s. Leningrad PR₁ = 14m.29s., ePR₂ = +15m.11s., eSR₁ = +24m.12s., eSR₂ = +27m.30s., MZ = +40.1m. Pulkovo PR₂ = +15m.11s., i = +15m.17s., SR₁ = +24m.18s., SR₂ = +27m.30s., MN = +40.5m., MZ = +40.6m. Fordham iN = +19m.39s. Harvard SR₂? = +27m.48s., LN = +31.6m., MN = +37.4m. Upsala eLN = +24.3m., MN = +42.9m. Cucino PR₁ = +14m.6s., PR₂ = +15m.48s., SR₁ = +25m.48s., MN = +40.6m. Tashkent e = +11m.26s. +15m.18s.?, and +24m.48s., i = +13m.42s., MN = +46.2m. Makeyevka MZ = +49.8m., MN = +51.7m.; is L really SR₁? De Bilt MZ = +54.8m., MN = +55.0m. Uccle MN = +53.5m. Baku iPR₂ = +18m.44s., SR₁ = +27m.46s., SR₂ = +31m.31s. Vienna PR₁ = +15m.13s., PS = +23m.14s., SR₁ = +27m.19s. Paris MN = +57.3m. Budapest MN = +52.7m. Zagreb e = +23m.56s. = PS +23s. and +32m.43s. = SR₂+19s. Belgrade ePE = +12m.37s. Moncalieri MN = +57.4m. Florence P = +12m.53s. Rocca di Papa PN = +12m.50s., eS = +23m.14s., eL = +43.6m. Riverview MN = +52.2m. Athens e = +23m.23s., eLN = +28.3m., MN = +57.3m. Toledo iS = +23m.50s., MNW = +56.9m. Granada PR₁ = +15m.56s., SPS = +25m.2s., PS = +25m.32s. Almeria PR₁ = +16m.32s., PS = +24m.54s., MN = +46.8m. Wellington e = +37m.18s.? = SR₂-30s. San Fernando MN = +57.3m. Melbourne i = +31m.30s. = SR₁+7s. Adelaide readings have been diminished by 1h. La Paz PR₂ = +26m.45s., SR₁N = +35m.55s., SR₁E = +36m.40s., LN = +56.2m. Sucre i = +20m.30s. = PR₁+7s., PR₂ = +27m.10s., SR₂ = +40m.10s.

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Oct. 13d. 16h. 26m. 30s. Epicentre 27°·0N. 125°·0E. (as on 1925 June 4d.).

A = -·511, B = +·730, C = +·454; D = +·819, E = +·574; .
G = -·260, H = +·372, K = -·891.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	N.	3·7	239	e 1 17	+19	1 59	+17	—	—
Zi-ka-wei		5·2	324	e 1 46	+26	2 50	+28	(2·8)	—
Manila		13·0	198	e 3 13	0	(15 37)	- 7	15·6	—
Irkutsk		29·7	334	e 6 14	-11	e 12 26	+57	—	—
Ekaterinburg		53·8	322	19 28	- 4	—	—	—	27·7
Leningrad		69·1	323	—	—	(18 30?)	-105	18·5	—
Pulkovo		69·2	328	—	—	(18 30?)	-106	18·5	—

Ekaterinburg gives also $i = +10m.16s.$, $MN = +26·3m.$, $MZ = +26·6m.$

Oct. 13d. 19h. 8m. 3s. Epicentre 51°·2N. 176°·0W.

A = -·625, B = -·044, C = +·779; D = -·070, E = +·998;
G = -·777, H = -·054, K = -·627.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	E.	24·1	60	i 5 24	- 5	9 36	-10	13·4	19·1
	N.	24·1	60	e 5 35	+ 6	e 9 46	0	13·0	18·0
Ootomari		27·1	277	6 5	+ 6	(11 2)	+19	11·0	16·4
Mizusawa		32·0	266	6 40	- 7	12 0	- 8	17·4	—
Honolulu	N.	32·9	150	i 6 51	- 5	(12 2)	-21	i 14·6	17·2
Victoria	F.	33·4	76	6 47	-13	12 1	-29	17·4	18·4
Nagoya		37·1	265	9 1	?PR ₁	—	—	18·4	—
Spokane		37·2	74	i 7 46	+14	i 13 34	+ 7	e 19·4	25·9
Toyoooka		38·1	266	7 34	- 5	13 29	-10	e 16·8	21·6
Osaka		38·3	265	8 30	+50	(13 21)	-21	13·4	26·1
Kobe		38·5	265	7 38	- 4	—	—	17·2	21·3
Sumoto		38·7	265	7 41	- 3	13 46	- 2	19·2	21·2
Berkeley		39·5	90	e 7 42	- 9	13 44	-15	e 18·0	26·8
Santa Clara		40·0	90	e 8 3	+ 8	e 13 44	-23	e 14·0	20·0
Lick		40·3	90	e 7 44	-13	e 13 48	-23	e 17·2	22·1
Saskatoon		41·3	60	i 7 57	- 8	i 14 7	-18	e 18·4	—
Hukuoka	N.	42·2	269	e 8 2	-10	14 8	-30	19·1	—
Nagasaki		43·1	269	8 14	- 5	14 50	+ 1	20·2	22·0
Irkutsk		46·8	305	i 8 40	- 6	15 39	+ 1	24·0	—
Denver		49·1	76	i 9 34	+33	i 16 32	+25	—	27·0
Zi-ka-wei		49·4	272	i 9 3	0	16 11	0	25·2	31·5
Tucson		50·3	88	e 9 3	- 6	e 16 34	+11	23·7	35·6
Taihoku	E.	53·7	268	e 11 22	?PR ₁	17 20	+15	25·3	31·2
Chicago	E.	57·8	63	e 10 35	+37	i 18 31	+35	e 26·6	34·8
St. Louis		58·5	68	i 10 5	+ 3	i 18 1	- 4	e 25·2	35·7
Ann Arbor		59·6	60	i 10 21	+12	i 18 21	+ 3	e 28·8	37·4
Hong Kong		60·3	270	10 20	+ 6	18 37	+10	—	33·4
Toronto	F.	60·9	56	i 10 18	0	i 18 32	- 3	29·6	40·6
	N.	60·9	56	10 19	+ 1	i 18 28	- 7	—	38·3
Ottawa		61·5	52	e 10 20	- 2	i 18 38	- 4	e 28·0	37·0
Manila		61·9	260	e 10 40	+16	e 17 54	-53	i 26·3	30·9
Ekaterinburg		62·4	330	i 10 23	- 5	i 18 53	- 0	26·0	43·9
Ste. Anne		62·8	49	e 10 31	0	e 18 55	- 3	e 31·0	41·0
Ithaca		63·3	55	10 34	0	19 0	- 5	31·0	—
Loyola		64·7	75	e 10 30	-13	19 7	-14	36·1	42·4
Apia		65·1	176	e 10 55	+ 9	e 20 37	+71	27·4	31·0
Fordham		65·7	55	i 10 57	+ 8	i 19 35	+ 2	29·5	34·0
Cheltenham		65·8	59	e 11 27	+37	e 20 20	?PS	e 35·0	41·8
Harvard		66·0	51	i 11 1	+10	19 35	- 2	e 33·8	42·2
Phu-Lien		66·2	274	e 11 0	+ 7	i 19 52	+12	31·3	51·2
Taoubaya		66·8	89	11 1	+ 4	20 6	+18	33·2	43·4
Leningrad		66·8	347	i 11 1	+ 4	i 20 2	+14	33·8	48·0
Pulkovo		67·0	347	i 11 2	+ 4	i 20 3	+13	35·0	47·8
Halifax		67·8	46	e 11 7	+ 4	e 20 1	+ 1	e 35·0	44·0
Upsala		68·1	353	e 11 3	- 2	e 19 58	- 5	e 33·0	49·1
Bergen		68·4	0	11 27	+20	—	—	e 26·0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Kucino	69.4	340	12 15	+62	21 33	+74	34.8	46.8
Dyce	71.5	4	i 11 31	+ 4	21 27	[+ 5]	—	51.1
Tashkent	71.5	315	i 11 31	+ 4	i 20 53	+ 9	37.0	51.8
Ambolna	72.4	240	i 12 42	+70	i 20 8	-47	e 37.0	—
Edinburgh	72.7	5	—	—	21 15	+17	40.0	60.0
Stonyhurst	74.8	4	e 15 57?	?PR ₁	i 21 44	[- 4]	42.0	51.4
Hamburg	75.1	357	e 11 52	+ 2	e 21 40	[- 9]	e 43.0	51.0
Simla	75.4	305	11 27	-24	21 9	-21	37.6	40.6
Calcutta	75.4	303	11 33	-18	21 15	-15	43.8	50.2
N. E.	76.0	289	13 3	+68	22 41	+64	32.3	—
N.	76.0	289	13 5	+70	22 49	+72	31.9	—
Potsdam	76.1	354	e 12 9	+13	e 21 57	+19	e 42.2	54.0
Makeyevka	76.6	338	12 2	+ 3	21 51	+ 7	37.0	53.5
De Bilt	76.7	359	12 1	+ 2	21 48	+ 3	e 33.0	57.0
Oxford	77.0	4	12 7	+ 6	21 58	+ 9	31.0	50.2
Kew	77.3	3	12 9	+ 6	22 35	?PS	41.0	52.0
N. E.	77.5	347	e 12 39	+35	e 21 5	+ 2	e 43.8	57.0
N.	77.5	347	e 12 27	+23	e 22 15	+20	—	56.0
Uccle	78.0	0	e 12 6	- 1	i 22 1	+ 1	e 32.0	58.1
Cheb	78.5	354	e 12 18	+ 8	e 22 25	+19	e 42.0	57.0
Piatigorsk	78.9	332	—	—	e 17 21	?PR ₂	—	40.0
Paris	80.0	1	e 12 18	- 1	e 21 34	-49	32.0	54.0
Vienna	80.0	352	e 12 19	0	22 42	+19	e 38.0	61.0
Hohenheim	80.0	357	e 12 13	- 6	e 22 31	+ 8	e 41.0	53.6
Baku	80.1	326	i 12 22	+ 2	i 21 44	-40	—	—
Strasbourg	80.2	358	e 12 20	0	i 22 25	0	e 39.0	55.9
Budapest	80.5	350	12 27	+ 5	22 27	- 2	e 30.4	58.0
Ravensburg	80.8	357	e 12 41	+17	e 22 22	-11	e 34.7	54.0
Graz	81.2	352	e 12 26	0	i 23 0	+23	36.0	58.1
Innsbruck	81.3	355	e 12 27	0	e 22 34	- 4	—	56.1
Zurich	81.4	357	e 12 25	- 2	e 22 44	+ 5	—	—
Besançon	81.6	358	—	—	e 22 51	+ 9	34.0	57.0
Chur	81.9	357	12 30	0	e 22 47	+ 2	—	—
Zagreb	82.4	352	e 12 34	+ 2	e 23 9	+19	e 33.0	56.6
N. E.	82.9	349	e 12 38	+ 3	e 23 13	+17	e 47.1	56.0
N.	82.9	349	e 12 39	+ 4	e 23 12	+16	e 47.0	57.8
Venice	83.0	354	12 51	+15	i 22 54	- 3	63.4	—
Moncalieri	83.7	357	11 38	+58	23 5	- 1	39.2	61.8
Florence	84.8	354	12 52	+ 4	23 7	-10	—	56.0
Bagnères	85.7	2	e 12 51	- 1	e 23 24	- 3	e 46.0	—
Rocca di Papa	86.8	354	e 12 55	- 3	e 23 19	-20	e 50.6	62.2
Batavia	86.8	258	11 25	- 3	i 23 36	- 3	e 43.6	—
Barcelona	87.3	0	e 12 48	-13	e 23 44	0	e 50.9	—
Azores	87.4	23	21 57?	?	—	—	—	58.3
San Juan	87.5	63	12 56	- 6	e 23 48	+ 1	43.4	61.0
Naples	87.5	351	e 12 57	- 5	e 21 57	-110	52.0	60.0
F. E.	87.6	351	e 11 33	-90	e 22 48	-60	56.0	65.0
Pompeii	87.8	299	12 57	- 7	23 32	-18	45.0	51.6
N.	87.9	2	12 56	- 8	22 57	[-17]	e 40.0	62.2
Bombay	88.7	6	e 13 2	- 7	23 33	[+13]	e 39.0	63.0
Tortosa	88.7	6	e 13 14	+ 2	i 23 47	-19	e 43.4	55.3
Toledo	89.3	10	13 15	+ 3	23 29	[+ 5]	45.1	52.0
Athens	89.3	345	e 13 14	+ 2	—	—	—	58.0
Lisbon	89.4	9	15 57?	?	—	—	—	—
Rio Tinto	89.8	207	e 13 7	- 8	e 23 36	[+ 9]	e 37.6	46.4
Riverview	89.8	207	23 39	?[S]	(23 39)	[+12]	42.6	44.2
Sydney	89.8	207	23 39	?[S]	(23 39)	[+12]	42.6	44.2
Alicante	90.4	4	13 29	+11	i 24 17	- 1	46.4	65.6
Granada	91.5	6	i 13 14	-10	e 24 21	- 8	44.8	70.6
Almeria	91.8	5	e 13 15	-11	i 24 6	-27	39.9	45.7
Malaga	91.8	6	13 21	- 5	24 0	-33	29.8	59.8
San Fernando	91.9	9	12 40	-46	23 52	[+13]	46.0	64.0
Algiers	92.0	0	13 17	-10	i 24 3	[+23]	43.0	61.0
Kodaikanal	92.1	289	e 20 9	?PR ₁	—	—	e 50.8	63.2
Wellington	92.9	187	—	—	23 42	[+ 3]	—	—
Colombo	93.4	285	13 17	-17	27 17	+148	57.6	62.0
Adelaide	94.9	217	—	—	i 24 47	-18	50.0	66.7
Melbourne	95.3	210	e 17 21	?PR ₁	i 25 21	+12	e 41.0	46.2
Helwan	95.4	337	e 13 37	- 8	i 24 26	[+27]	—	73.2
Perth	102.4	234	24 57?	?[S]	(24 57?)	[+21]	61.8	—
La Paz	113.9	86	e 18 48	[+14]	29 16	+75	53.9	77.4
Sucre	117.6	86	e 18 2	[-44]	i 29 57	+86	51.0	74.0
La Plata	133.4	94	i 19 39	[+13]	—	—	57.0	—
Cape Town	159.8	323	—	—	25 21	?PR ₁	—	103.9

For Notes see next page.

NOTES TO OCT. 13d. 19h. 8m. 3s.

Additional readings: Sitka eSR₁N = +10m.27s.; T₀ = 19h.7m.58s. and 19h.8m.10s. Ootomari MN = +14.2m. Honolulu PR₁N = +7m.53s., S = +11n.47s.; that in text is given as P_cSE, SR₁E? = +13m.15s., iSR₁N? = +13m.32s. and many other readings: T₀ = 19h.8m.5s. and 19h.8m.20s. Victoria PN = +6m.49s.; T₀ = 19h.8m.14s. Spokane iEN = +16m.40s. = SR₂+0s. Toyooka MN = +13.3m. Osaka MN = +22.5m. Kobe MN = +23.3m. Berkeley eSN = +14m.1s., eSR₁EN? = +16m.33s., and several other readings. Santa Clara iN = +7m.33s., PR₁N = +9m.24s., PR₂N = +9m.58s., iN = +10m.20s. = PR₂+20s. Lick eP = +7m.43s., ePR₁E? = +9m.38s., eSZ = +13m.51s., eSN = +14m.9s., MN = +22.3m. Hukuoka readings have been diminished by 1h. Irkutsk MN = +27.6m., MZ = +32.6m. Denver ePN = +9m.36s., iE = +12m.27s. = PR₂+16s., eN = +16m.15s., iEN = +16m.57s., PSEN? = +17m.13s., iE = +18m.57s. and +19m.57s. Zi-ka-wei PR₁ = +9m.17s. = P +14s., PR₂ = +11m.13s. = PR₁+3s. Tucson iP = +9m.7s., P_cPE = +9m.54s., iP_cPN = +9m.59s., PR₂N? = +11m.43s., PR₃N? = +12m.14s., P_cSN? = +13m.29s., PSE = +16m.50s., eS_cSN = +18m.39s., SR₁E = +19m.49s., eSR₁N = +20m.61s., eSR₁E = +21m.39s., LN = +23.6m.; T₀ = 19h.7m.38s. and 19h.7m.41s. Taihoku SR₁E = +20m.54s. Chicago iPE = +10m.42s., eS_cSE = +20m.33s., eSR₁E? = +22m.25s., iSR₁E = +22m.49s., SR₂E = +25m.6s. = SR₂-11s. St. Louis eN = +11m.31s., PR₁N = +12m.25s., iN = +19m.29s., MN = +35.0m. Ann Arbor ePR₂ = +13m.57s., iSP = +18m.45s., iSR₁ = +22m.57s., eSR₂ = +24m.54s., MN = +36.4m.; T₀ = 19h.8m.24s. Toronto iPE = +10m.21s., iPN = +10m.24s., and several i readings; T₀ = 19h.8m.9s., T₁N = 19h.8m.15s. Ottawa iP = +10m.27s., eSR₁ = +23m.27s., MN = +39.4m.; T₀ = 19h.8m.7s. Manila PR₁ = +13m.28s., SR₁ = +21m.45s., SR₂ = +22m.59s., MN = +30.6m. Ekaterinburg PR₁ = +12m.43s., i = +13m.53s., PR₂ = +14m.20s., MN = +41.8m., MZ = +45.4m. Ste. Anne PR₁ = +23m.33s. = SR₁-23s.; T₀ = 19h.8m.12s. Fordham iN = +20m.22s. = PS+17s., and +22m.48s. Cheltenham ePE = +11m.33s., ePSN? = +21m.3s., eLN = +33.8m. Harvard PR₁N = +13m.53s., PR₂N = +15m.13s., PSE = +19m.54s., S_cSN? = +20m.50s., S_cSEN = +21m.4s., SR₁N = +24m.47s., SR₁E = +24m.51s., SR₂E = +26m.51s., SR₂N = +26m.54s., iLN = +34.0m., MN = +50.8m.; T₀ = 19h.8m.31s. and 19h.8m.34s. Phu-Lien MN = +41.7m. Leningrad iPR₁ = +13m.50s., PR₂ = +15m.50s. = PR₂-14s., PS = +20m.46s., SR₁ = +24m.3s., iSR₂ = +27m.27s., MZ = +47.5m. Pulkovo PR₁ = +13m.52s., iPR₂ = +15m.49s., PS = +21m.4s., SR₁ = +23m.57s., SR₂ = +27m.21s., MZ = +48.0m., MN = +48.2m. Halifax iN = +21m.23s.; T₀ = 19h.8m.16s. Kucino e = +12m.33s. and +19m.21s., i = +13m.39s., PR₂ = +16m.27s., SR₂ = +29m.39s., MN = +51.4m. Tashkent i = +11m.42s. and +12m.13s., MN = +44.8m., MZ = +47.4m. Hamburg SR₁ = +26m.39s., SR₂ = +31m.57s.? Makeyevka PR₁ = +15m.42s., MZ = +53.1m., MN = +57.2m. De Bilt MN = +53.1m., MZ = +60.2m. Kew ME = +52.4m. Uccle MN = +54.0m. Vienna iN = +13m.44s., PS = +23m.41s., iE = +25m.13s. and +29m.43s., SR₁? = +27m.47s. Hohenheim ePR₁ = +15m.21s., ePR₂ = +17m.15s., eL = +33.6m., MN = +56.6m. Strasbourg MN = +55.7m. Budapest MN = +56.0m. Ravensburg eE = +13m.36s. and +24m.19s., eLN = +28.2m., MN = +61.9m. Graz MN = +57.7m. Zagreb e = +13m.26s., +14m.8s., +17m.17s., and +19m.26s. = PR₂+14s. Belgrade e = +12m.58s., PR₁ = +14m.12s., PR₂ = +15m.2s. Venice iS = +26m.57s. Moncalieri MN = +58.6m. Florence P = +12m.57s., S = +23m.57s. = PS-7s. Rocca di Papa L = +61.4m. Batavia iE = +14m.45s. Barcelona MN = +60.3m. San Juan S_cP_cSSN = +23m.28s., PSE = +24m.37s., PPSN? = +25m.36s., LN? = +45.0m., MN = +56.0m. Tortosa ME = +62.5m. Toledo iSNE = +23m.51s., MNW = +58.2m. Athens eN = +29m.57s. = SR₁-24s., eE = +40m.39s., MN = +60.4m. Riverview eS = +23m.57s., eL = +42.6m., MN = +45.6m., MZ = +48.4m.; T₀ = 19h.8m.43s. Sydney S = +31m.57s., SR₁ = +36m.39s. = SR₂-17s. Granada PR₁ = +16m.59s., PR₂ = +18m.58s., PR₃ = +21m.1s., SPS = +23m.44s. = [S]+7s., PS = +25m.18s., SR₁ = +28m.54s. Almeria PR₁ = +17m.5s., PR₂ = +20m.8s., SR₁ = +27m.45s. Malaga MN = +49.6m. San Fernando MN = +71.0m. Wellington SR₁ = +30m.27s., e = +38m.42s. Adelaide eS = +22m.47s. Perth PR₁ = +35m.7s., PS = +36m.37s., S = +37m.22s., SR₁ = +44m.2s., SR₂ = +48m.22s. La Paz eP = +19m.4s., PR₁ = +22m.16s., PR₂ = +22m.46s., SR₁ = +36m.19s., i = +36m.49s., SR₂ = +31m.4s., L = +56.4m., MN = +72.9m.; the S in text = PS-24s. Sucre eP = +19m.5s., i = +20m.12s. = PR₁+4s., PR₂ = +22m.18s., PR₃ = +27m.13s., iPS = +30m.43s., SR₁ = +36m.16s., SR₂ = +40m.27s., SR₃ = +43m.49s. La Plata L = +36.8m.; the S in text = PS-23s.

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Oct. 13d. Readings also at 1h. (near La Paz), 3h. (Ekaterinburg and Tashkent), 4h. (near Irkutsk), 5h. (near Granada, Toledo, Malaga, and Almeria), 8h., 9h., and 11h. (Nagasaki), 13h. (near Granada, Malaga, and Almeria), 14h. (Nagasaki and Budapest), 15h. (near Granada, Malaga, and Almeria), 16h. (Riverview, Wellington, and Malaga), 18h. (near Balboa Heights), 20h. (Batavia), 22h. (Taihoku), 23h. (near Zurich).

Oct. 14d. 2h. 11m. 6s. Epicentre 51°-2N. 176°-0W. (as on Oct. 13d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu	E.	32.9	150	—	—	e 12 12	-10	e 13.4	14.9
Victoria	E.	33.4	76	6 46	-14	12 9	-21	16.6	32.1
	N.	33.4	76	6 49	-11	12 14	-16	—	—
Irkutsk		46.8	305	8 37	-9	—	—	29.9	30.4
Tucson	E.	50.3	88	9 4	-5	16 31	+8	e 25.9	—
	N.	50.3	88	e 9 16	+7	e 16 34	+11	e 23.2	26.5
Chicago	E.	57.8	63	10 34	+36	18 44	+48	e 27.9	38.5
Toronto	E.	60.9	56	e 10 16	-2	e 18 33	-2	29.6	—
Ottawa		61.5	52	e 10 20	-2	e 18 39	-3	e 28.9	36.9
Manila		61.9	260	—	—	(i 19 22)	+35	i 19.4	—
Ekaterinburg		62.4	330	i 10 28	0	18 56	+3	e 27.9	41.7
Ste. Anne		62.8	49	e 10 32	+1	e 19 2	+4	e 31.9	40.9
Ithaca		63.3	55	10 30	-4	18 59	-6	29.9	—
Fordham		65.7	55	e 10 50	+1	19 39	+6	e 31.6	34.9
Leningrad		66.8	347	e 10 59	+2	—	—	36.1	49.0
Pulkovo		67.0	347	11 1	+3	19 53	+3	37.9	42.6
Kucino		69.4	340	—	—	(e 20 24)	+5	(36.6)	(40.7)
Tashkent		71.5	315	(i 11 30)	+3	(i 20 48)	+4	(e 36.9)	(43.8)
Simla	N.	75.4	303	—	—	e 24 42	? +	—	—
Makeyevka		76.6	338	e 11 59	0	e 21 44	0	33.9	50.6
De Bilt		76.7	359	—	—	—	—	e 37.9	—
Paris		80.0	1	—	—	—	—	e 52.9	—
Moncalieri		83.7	357	—	—	(23 1)	-5	e 49.4	—
Tortosa	N.	87.9	2	—	—	—	—	e 53.9	66.3
Granada		91.5	6	e 17 54	?PR ₁	—	—	e 52.9	56.6
La Paz		113.9	86	e 19 21	?PR ₁	—	—	72.8	76.3
Sucre		117.6	86	19 34	?PR ₁	—	—	78.6	89.6

Additional readings and notes: Irkutsk MZ = +35.9m. Chicago eSR₁E = +22m.54s. Toronto SR₁E = +23m.20s.; T₀ = 2h.11m.7s. Ottawa eSR₁ = +23m.22s., MN = +40.9m.; T₀ = 2h.11m.9s. Ekaterinburg MN = +35.8m., MZ = +42.4m. Ste. Anne eSR₁? = +23m.53s.; T₀ = 2h.11m.9s. Fordham eN = +22m.12s. and +29m.54s.; T₀ = 2h.11m.16s. Pulkovo SR₁ = +24m.12s., SR₂ = +27m.18s., MN = +43.5m., MZ = +47.7m. Kucino e = (+25m.42s.) = SR₁ + 0s. (+23m.30s.) = SR₂ + 5s., and (+34m.54s.), MN = +47.3m.; all the readings have been diminished by 1m. Tashkent i = (+11m.43s.), (+12m.11s.), and (+21m.14s.) = [S] - 8s., e = (+12m.54s.), (+15m.54s.), (+24m.54s.), and (+28m.54s.) = SR₂ - 8s., MN = (+50.7m.); all the readings have been diminished by 1min. Simla eE = +29m.42s. = SR₂ - 33s. Makeyevka MN = +48.6m., MZ = +51.3m. Moncalieri S is given as L of an earlier shock, also L = +53.5m.

Oct. 14d. Readings also at 5h. (near Athens), 6h. (Tashkent and Ekaterinburg), 7h. (Pulkovo, Kucino, Tashkent, Ekaterinburg, Baku, Makeyevka, Irkutsk (2), Toronto, and Ottawa), 11h. (Ekaterinburg, Riverview, and Nagasaki), 12h. (Cheb), 13h. (Taihoku and Nagasaki), 15h. (Ekaterinburg), 19h. (near Mostar), 20h. (La Paz (2)), 21h. (Ekaterinburg), 23h. (near Algiers).

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Oct. 15d. 6h. 47m. 45s. Epicentre 35°·0N, 5°·0W. (as on October 11d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	1·7	326	0 52	+26	1 18	+30	—	—
Malaga	1·8	15	0 33	+ 5	0 53	+ 2	—	1·3
Granada	2·4	27	i 0 38	+ 1	1 1	- 5	—	1·1
Almeria	2·8	48	i 0 35	- 9	i 0 54	-23	i 1·0	1·3
Alicante	4·9	46	0 55	-21	1 17	-57	1·8	2·2
Toledo	4·9	9	e 1 15	- 1	i 2 22	+ 8	i 2·6	2·9
Algiers	6·8	72	e 1 29	-15	2 44	-21	3·1	4·2
Tortosa	7·2	35	e 1 2	-47	2 47	-28	—	4·8
Barcelona	8·5	39	e 0 56	-73	—	—	e 4·2	5·4
Paris	14·9	20	—	—	—	—	e 7·2	9·2
Uccle	17·2	20	—	—	—	—	e 8·2	—
De Bilt	18·5	20	—	—	—	—	e 9·2	10·8
Hamburg	21·3	25	—	—	—	—	e 11·2	12·2
Pulkovo	33·6	30	—	—	—	—	e 18·2	—
Ekaterinburg	48·3	42	8 39	-17	e 15 40	-18	21·2	—
Tashkent	56·9	60	—	—	—	—	e 26·2	41·5

Additional readings: Granada $i = +48s.$ Almeria $MZ = +1·1m., MN = +2·0m.$
 Alicante $MZ = +3·6m.$ Toledo $eP = +1m.27s., iPR_1 = +2m.2s., iSR_1 = +2m.24s., iSR_1Z = +2m.30s.$ Tortosa $MN = +4·4m.$
 De Bilt $MNZ = +12·2m.$

Oct. 15d. 7h. 53m. 24s. Epicentre 35°·0N, 5°·0W. (as at 6h.).

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	1·8	0 29	+ 1	0 45	- 6	—	—
Granada	2·4	i 0 42	+ 5	1 5	- 1	—	1·8
Almeria	2·8	0 32	-12	i 0 52	-25	1·0	1·2
Toledo	4·9	e 0 40	-36	—	—	—	—
De Bilt	18·5	—	—	—	—	e 9·6	—

Additional readings: Granada $i = +49s.$ Almeria $MZ = +1·0m., MN = +1·4m.$

Oct. 15d. 14h. 0m. 30s. Epicentre 51°·2N, 176°·0W. (as on 14d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu	32·9	150	—	—	—	—	e 17·2	—
Irkutsk	46·8	305	—	—	—	—	24·5	—
Toronto	60·9	56	—	—	—	—	34·5	—
Ottawa	61·5	52	—	—	—	—	e 31·5	—
Ekaterinburg	62·4	330	10 27	- 1	18 56	+ 3	32·5	39·6
Leningrad	66·8	347	—	—	—	—	40·5	—
Pulkovo	67·0	347	—	—	—	—	39·5	—
Tashkent	71·5	315	i 11 22	- 5	20 56	+12	e 37·5	39·6
Makeyevka	76·6	338	—	—	—	—	e 37·5	50·9
Baku	80·1	326	—	—	—	—	43·5	47·6

Additional readings: Irkutsk $e = +12m.41s.$ and $+13m.30s. = SR_1 - 36s.$
 Ekaterinburg $MN = +38·8m., MZ = +40·9m.$ Tashkent $i = +12m.43s.,$
 MN = +39·1m. Makeyevka $L = +45·5m.$ Baku $MZ = +53·3m.,$
 MN = +53·6m.

Oct. 15d. Readings also at 2h. (Batavia, Ekaterinburg, and Tashkent), 3h. (Nagasaki (2)), 5h. (Ekaterinburg, Rocca di Papa, Tashkent, and near Manila), 6h. (La Paz), 11h. (Tashkent), 12h. (Chur and near Zurich), 13h. (Ekaterinburg, Tashkent, Irkutsk, and La Paz), 14h. (Baku), 15h. (La Paz), 17h. (Taihoku), 19h. (near Batavia and Malabar), 20h. (Tashkent), 22h. (Ekaterinburg, Tashkent, and Baku), 23h. (Granada and near Mizusawa).

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Oct. 16d. Readings at 2h. (3) and 4h. (Nagasaki), 5h. (Azores and Nagasaki), 8h. (Ekaterinburg and Tashkent) 10h. (Ekaterinburg), 11h. (Nagasaki and near Manila), 12h. (Tashkent and near Nagasaki) 13h. (Nagasaki), 15h. (Baku, Ekaterinburg, Tashkent, near La Paz, and Sucre), 19h. (Sucre), 22h. (Nagasaki and Sucre).

Oct. 17d. Readings at 0h. (Nagoya, Tashkent, Christchurch, and near Wellington), 1h. (Manila, Ekaterinburg, Pulkovo, and Leningrad), 2h. (Tashkent, Ekaterinburg, Pulkovo, and Leningrad), 3h. (Spokane), 7h. (Tashkent, Riverview, and near Sumoto), 8h. (Melbourne, Adelaide, and Pulkovo), 10h. (Tashkent), 12h. and 13h. (Rocca di Papa), 16h. (Rocca di Papa and near Mizusawa), 19h. (near Mostar), 21h. (near Toyooka), 23h. (Tashkent).

Oct. 18d. Readings at 0h. (near Amboina), 2h. (Tashkent, Ekaterinburg, La Plata, and near La Paz), 3h. (Apia, Ekaterinburg, Tashkent, and near Sucre), 5h. (Ekaterinburg, Tashkent, Baku, Sucre, and La Paz (2)), 6h. (Ekaterinburg, Nagasaki (2), and near Laibach), 8h. (Ekaterinburg, Tashkent, Nagasaki, Taihoku, Manila, and Irkutsk), 9h. (Pulkovo), 10h. (Baku, Ekaterinburg, Tashkent, and Irkutsk), 11h. (Ekaterinburg), 14h. (Nagasaki), 16h. (Uccle), 21h. (near Tashkent).

Oct. 19d. 0h. 29m. 56s. Epicentre 42°·0N. 139°·5E. (as on 1926 Mar. 19d.).

A = -·565, B = +·483, C = +·669; D = +·649, E = +·760;
G = -·509, H = +·435, K = -·743.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3·1	157	0 50	+ 1	1 24	- 2	—	—
	N.	3·1	157	0 51	+ 2	1 23	- 3	—	—
Nagoya		7·1	197	0 28	-80	(2 56)	-17	2·9	3·2
Kobe		8·1	206	2 15	+12	—	—	—	—
Irkutsk		25·7	306	15 43	- 2	10 21	+ 5	—	—
Ekaterinburg		50·3	316	19 5	- 4	—	—	22·1	34·3
Tashkent		50·9	295	19 13	+ 1	16 21	- 9	e 27·1	30·5
Kucino		62·0	321	—	—	—	—	e 34·6	—
Leningrad		62·8	328	—	—	—	—	e 31·3	—
Pulkovo		62·9	328	—	—	e 18 57	- 3	35·1	—
Baku		64·1	302	—	—	—	—	e 36·7	—
Makeyevka		66·5	315	—	—	e 20 17	PS	37·1	38·1
Riverview		76·6	170	—	—	—	—	e 36·9	40·6
Adelaide		77·0	180	—	—	—	—	e 43·2	45·7
Uccle		79·3	332	—	—	—	—	40·1	—
Melbourne		80·0	176	—	—	—	—	e 39·0	41·0
Christchurch		90·6	157	14 10	+51	—	—	e 37·5	39·1

Additional readings: Irkutsk i = +5m.58s. = PR₁ -24s., e = +11m.50s. =
SR₁ +8s. Tashkent MN = +30·0m., MZ = +33·1m. Adelaide MN =
+46·0m. Pulkovo e = +26m.16s. = SR₄ +6s. Makeyevka MZ =
+44·0m. Riverview MN = +41·2m.

Oct. 19d. 4h. 34m. 30s. Epicentre 35°·5N. 2°·5W. (as on 1922 Aug. 2d.).

A = +·813, B = -·036, C = +·581; D = -·044, E = -·999;
G = +·580, H = -·025, K = -·814.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Almeria		1·4	1	0 33	+12	10 56	+17	1·0	1·3
Granada		1·9	332	10 38	+ 9	0 59	+ 6	—	1·1
Malaga		2·0	308	0 38	+ 7	0 51	- 4	—	1·0
Alicante		3·2	30	0 45	- 5	1 1 7	-21	—	1·5
Toledo		4·5	340	e 1 33	+23	2 23	+19	12·6	2·8
Tortosa		5·8	24	—	—	—	—	e 3·7	4·8
Uccle		16·1	16	—	—	—	—	e 8·5	—
De Bilt		17·4	16	—	—	—	—	e 9·5	—
Baku		41·0	67	e 7 2	-61	—	—	—	—
Ekaterinburg		46·6	42	—	—	—	—	26·5	—

Additional readings: Almeria MZ = +1·5m. Toledo P = +1m.16s., i =
+2m.4s.; epicentre 35°20'N. 3°40'W.

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Oct. 19d. 6h. 23m. 0s. Epicentre 48°·5S. 162°·5E. (as on 1918 Sept. 16d.).

A = -·632, B = +·199, C = -·749; D = +·301, E = +·954;
G = +·714, H = -·225, K = -·663.

The residuals suggest an epicentre nearly 1° further west.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	8·6	59	—	—	—	—	e 4·7	6·9
Wellington	11·3	55	1 2 49	0	1 5 32	+30	e 6·6	8·6
Melbourne	16·6	304	—	—	e 6 24	-45	—	8·8
Riverview	17·0	326	e 3 54	-11	e 7 0	-18	e 8·0	8·3
Adelaide	22·3	299	—	—	(e 8 58)	-13	e 9·0	13·1
Tashkent	121·5	298	—	—	—	—	e 50·0	83·8
Ekaterinburg	134·5	311	—	—	—	—	71·0	—
Granada	164·8	227	—	—	—	—	e 88·0	92·0
Uccle	165·8	288	—	—	—	—	97·0	—

Additional readings: Wellington PR₁ = +2m.59s., SR₁ = +5m.46s., MN = +8·0m. Riverview MN = +8·8m.; T₀ = 6h.28m.2s. Adelaide MN = +11·6m.

Oct. 19d. 14h. 4m. 58s. Epicentre 34°·5N. 135°·0E.

A = -·583, B = +·583, C = +·566; D = +·707, E = +·707;
G = -·401, H = +·401, K = -·824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	0·2	39	0 5	+ 1	—	—	0·2	0·3
Sumoto	0·2	214	e 0 5	+ 1	0 10	+ 4	0·2	0·3
Osaka	0·4	67	0 11	+ 5	—	—	0·2	0·8
Toyooka	1·1	352	0 16	- 1	—	—	0·6	0·6
Nagoya	1·7	67	0 26	0	(0 44)	- 4	0·7	0·8

Sumoto gives also P = +6s., S = +15s.

Oct. 19d. 20h. 48m. 30s. Epicentre 11°·0N. 83°·0W.

A = +·120, B = -·974, C = +·191; D = -·993, E = -·122;
G = +·023, H = -·189, K = -·982.

Several residuals suggest a second shock about 30 sec. later than the first.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts. E.	3·9	120	(0 58)	- 3	(1 38)	- 9	(1·8)	(1·9)
N.	3·9	120	(1 20)	+19	(2 0)	+13	(2·3)	(3·3)
Merida	11·8	328	3 53	+57	6 24	+70	6·6	8·2
Vera Cruz	15·1	305	2 26	-74	(6 50?)	+16	6·8?	8·4
Tacubaya	17·7	300	4 35	+22	7 50	+17	8·4	11·2
San Juan	E. 17·9	63	(i 4 23)	+ 7	(7 33)	- 5	7·6	7·9
Loyola	N. 20·0	342	e 4 50	+ 9	7 47	-36	8·8	—
St. Louis	28·3	348	e 6 18	+ 7	e 10 54	-10	e 18·5	19·5
Chicago	E. 31·0	354	—	—	—	—	14·8	19·2
La Paz	31·2	151	6 33	- 7	12 26	+32	16·6	20·1
Ann Arbor	31·3	0	e 7 24	?PR ₁	e 11 36	-20	e 13·5	16·9
Ithaca	31·9	10	—	—	—	—	16·2	—
Toronto	N. 32·8	5	e 8 0	?PR ₁	12 3	-18	18·9	21·0
Tucson	33·3	315	6 57	- 2	12 17	-12	—	—
Sucre	34·8	150	16 56	-15	i 12 58	+ 6	18·7	22·5
Ottawa	34·9	10	e 8 32	?PR ₁	i 12 33	-21	e 14·2	20·3
Victoria	50·2	327	16 19	?S	(16 19)	- 2	24·8	34·8
San Fernando	72·9	55	—	—	21 18	+17	31·5	36·0
Malaga	74·3	55	11 24	-20	21 26	+ 8	—	—
Granada	74·9	55	i 11 51	+ 3	22 9	?PS	36·3	39·5
Edinburgh	75·2	35	—	—	e 21 30?	+ 2	39·5	42·5
Almeria	75·9	55	e 11 50	- 4	22 9	?PS	e 37·0	—
Oxford	76·0	40	—	—	e 21 42	+ 5	34·5	41·8
Kew	76·8	40	—	—	e 21 48	+ 1	33·5	—
Tortosa	78·0	50	—	—	22 1	+ 1	e 35·5	43·9

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.
Paris	78.8	42	—	—	e 22 10	0	34.5	43.5
Uccle	79.8	40	—	—	e 22 20	- 1	e 33.5	—
De Bilt	80.2	39	—	—	e 22 26	+ 1	e 37.5	47.1
Strasbourg	82.2	42	—	—	e 23 30?	?PS	36.5	44.0
Moncalieri	82.7	46	e 13 46	+72	23 23	?PS	38.4	—
Hamburg	82.9	37	e 12 30?	- 5	—	—	e 35.5	—
Vienna	z. 87.9	41	e 12 58	- 6	—	—	—	—
Leningrad	91.6	27	e 16 55	?PR ₁	e 23 43	[+ 5]	36.6	53.5
Pulkovo	91.8	27	—	—	e 23 45	[+ 6]	35.5	49.8
Kucino	97.2	29	—	—	e 24 19	[+ 10]	43.3	48.3
Makeyevka	101.4	36	—	—	e 24 38	[+ 7]	45.5	60.3
Ekaterinburg	105.8	20	e 18 34	?PR ₁	e 24 56	[+ 5]	43.5	58.3
Baku	112.6	36	e 19 26	?PR ₁	e 29 16	?PS	47.5	61.7
Irkutsk	116.4	35.5	—	—	—	—	58.5	—
Tashkent	121.8	23	e 14 14	-97	—	—	e 57.5	68.4

Additional readings and notes: Balboa Heights readings have all been increased by 2m. San Juan eLN = +7.7m.; P is given as S and S as L. Loyola PN = +5m.11s., iN = +6m.23s. St. Louis eN = +6m.44s. = PR₁ -12s., and +7m.5s. = PR₂ -2s., iS = +11m.13s. Chicago SR₁N = +12m.53s., SR₁E? = +12m.56s., eSR₂N = +13m.47s., MN = +18.7m. La Paz iP = +6m.40s., PR₁ = +8m.1s., PR₂ = +8m.54s., L = +17.8m.; T₀ = 20h.47m.52s. Ann Arbor LN = +18.7m. Toronto iPN = +8m.2s., iSE = +12m.4s., ME = +18.2m. Tucson e = +7m.7s., PR₁ = +8m.8s., S₀SE = +13m.12s.; T₀ = 20h.48m.28s. and 20h.48m.43s. Sucre i = +7m.29s., PR₁ = +8m.9s., PR₂ = +9m.8s.; T₀ = 20h.47m.47s. Ottawa MN = +20.5m. San Fernando MN = +39.0m. Granada SPS = +21m.33s. Almeria i = +21m.40s. = [S] -16s. Tortosa SN = +22m.7s. Paris MN = +35.5m. De Bilt eSR₁ = +27m.30s., eLN = +33.5m., MN = +37.0m., MZ = +43.0m. Leningrad e = +25m.27s. = PS +0s., MZ = +49.6m., MN = +54.4m. Pulkovo ePR₁ = +16m.56s., e = +25m.28s. = PS -1s., SR₁ = +30m.18s., MZ = +48.9m., MN = +58.7m. Kucino e = +27m.9s. = PS +38s., +31m.49s. = SR₁ -13s., and +33m.18s. Makeyevka MN = +47.6m., MZ = +55.2m. Ekaterinburg e = +18m.44s. = PR₁ -6s., +28m.2s. = PS -9s., and +34m.3s. = SR₁ +13s., MZ = +61.2m., MN = +61.4m. Baku MZ = +64.6m. Tashkent e = +21m.20s. = PR₁ -16s., +24m.5s. = PR₂ +5s., +29m.30s. = S +27s., +31m.12s., i = +32m.54s., and +38m.39s., e = +43m.30s. = SR₁ +45s., and +57m.30s., MZ = +74.3m., MN = +74.4m.

Oct. 19d. Readings also at 1h. (near Wellington), 2h. (Uccle, Granada, and Ekaterinburg), 5h. (Tashkent and Ekaterinburg), 6h. (Granada), 7h. (near Mostar and near Tacubaya), 11h. (Kucino), 14h. (near Tacubaya), 16h. (Tashkent), 17h. (Ekaterinburg, Irkutsk, and Tashkent), 18h. (La Paz).

Oct. 20d. 1h. 41m. 20s. Epicentre 35° 2N. 136° 3E.

A = -591, B = +565, C = +576; D = +691, E = +723;
G = -417, H = +398, K = -817.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	0.5	93	-0 4	-12	(0 6)	- 8	0.1	0.1
Osaka	0.8	232	0 13	+ 6	(0 35)	+13	0.6	1.1
Kobe	1.1	240	0 15	- 2	(0 33)	+ 2	0.5	0.6
Toyooka	1.2	291	0 13	- 5	(0 28)	- 5	0.5	0.5
Sumoto	1.4	234	0 20	- 1	(0 46)	+ 7	0.8	1.3
Hukuoka	n. 5.1	253	e 1 46	+27	—	- 7	2.8	—

Additional readings: Nagoya MZ = +0.2m. Osaka MN = +0.6m. Sumoto MZ = +0.8m.

Oct. 20d. Readings also at 1h. (Tashkent), 3h. (Kucino and Ekaterinburg), 5h. (La Paz, Sucre, Irkutsk, and Nagasaki), 6h. (Kucino), 8h. (Nagasaki), 10h. (near Malabar), 16h. (near Tucson), 17h. (Moncalieri and Strasbourg), 18h. (near Mostar), 19h. and 22h. (Ekaterinburg).

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Oct. 21d. 9h. 29m. 50s. Epicentre 45°·0N. 14°·8E. (as on 1926 Jan. 1d.).

A = +·684, B = +·181, C = +·707; D = +·255, E = -·967;
G = +·684, H = +·181, K = -·707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Laibach	1·1	349	0 23	+ 6	0 37	+ 6	—	0·8
Zagreb	1·2	45	e 0 10	- 8	10 28	- 5	i 0·5	0·6
Venice	1·8	284	0 16	-12	2 49	?	—	—
Graz	2·2	11	e 0 26	- 8	0 51	- 9	—	1·1
Florence	2·8	244	0 40	- 4	—	—	—	1·8
Innsbruck	3·3	313	e 0 48	- 4	i 1 36	+ 5	—	—
Vienna	3·4	19	e 0 58	+ 5	i 1 34	0	i 1·8	1·9
Rocca di Papa	N. 3·6	205	e 0 58	+ 2	—	—	—	—
Budapest	3·9	49	1 25	?	(1 25)	-22	—	—
Belgrade	4·0	91	e 1 27	+25	e 2 21	+31	e 3·1	—
Chur	N. 4·2	297	e 0 57	- 8	i 1 50	- 5	—	—
Zurich	4·9	301	e 1 9	- 7	e 2 33	?	(e 2·5)	—
Moncalieri	5·0	272	e 1 28	+11	e 2 52	?	(e 2·9)	—
Strasbourg	6·0	309	e 1 55	+23	e 2 54	+10	4·2	—
Besançon	6·5	294	—	—	e 2 34	-23	—	3·5
Uccle	9·1	313	—	—	—	—	e 4·8	—
Hamburg	9·2	342	—	—	—	—	e 4·2	—
Kucino	18·1	46	—	—	—	—	e 10·0	—

Additional readings: Laibach i = +26s.; epicentre 45°·0N. 14°·9E. Zagreb iPR₁NE = +15s., iPR₁NW = +19s., and several other i readings. Venice PE = +24s., PN = +36s. and +45s. Graz iP = +29s. Innsbruck iP = +51s. Vienna iE = +1m.19s., iEZ = +1m.41s. Rocca di Papa ePE = +1m.27s., ePN = +1m.34s., PR₁Z = +1m.58s., PR₁E = +2m.6s., PR₁N = +2m.10s. Strasbourg e = +2m.21s., i = +3m.14s., and +3m.20s.

Oct. 21d. Readings also at 1h. (Irkutsk and Victoria) 2h. (Christchurch, Wellington, Ekaterinburg, and Tashkent), 3h. (Ekaterinburg and near Mostar), 4h. (near La Paz and Sucre), 7h. (near Mizusawa), 8h. (La Paz, La Plata, and Sucre), 9h. (Ekaterinburg (2) and Kew), 12h., 13h., 15h., and 18h. (Nagasaki), 19h. (Victoria), 20h. and 21h. (Ekaterinburg), 23h. (Christchurch and Wellington).

Oct. 22d. 12h. 35m. 8s. Epicentre 36°·5N. 122°·0W.

(as on 1922 Aug. 18d.).

A = -·426, B = -·682, C = +·595; D = -·848, E = +·530;
G = -·315, H = -·504, K = -·804.

See a paper by G. D. Mitchell: Bull. Seis. Soc. Amer., Vol. 18, No. 3, pp. 153, etc. The shock was felt at both San Francisco and Los Angeles, causing a stampede of "film stars" to the mountains.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	Z. 0·9	18	10 16	+ 2	10 29	+ 4	—	—
Santa Clara	Z. 0·9	2	10 11	+ 3	—	—	—	—
Berkeley	1·4	352	e 0 24	+ 3	10 42	+ 3	—	—
Tucson	E. 10·1	111	2 37	+ 6	e 4 58	+26	i 5·4	7·3
	N. 10·1	111	2 37	+ 6	e 5 8	+36	i 5·6	7·7
Spokane	N. 11·6	15	i 2 53	- 5	15 4	- 5	i 6·2	—
Victoria	N. 11·9	355	2 53	- 5	—	—	7·1	8·4
Denver	E. 13·7	70	e 3 47	+25	16 7	+ 6	6·5	—
Saskatoon	N. 19·0	39	i 4 39	+10	18 14	+12	e 10·2	11·6
Sitka	E. 22·4	341	—	—	e 9 14	+ 1	e 14·5	15·8
St. Louis	25·1	75	e 5 29	-10	e 9 49	-16	e 13·0	15·8
Tacubaya	26·3	124	6 1	+10	11 1	+33	13·0	18·3
Chicago	N. 27·0	68	—	—	i 10 30	-11	e 13·5	15·4
Ann Arbor	29·9	67	4 28	-119	e 10 28	-64	17·3	19·0

Continued on next page.

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 Stora 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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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Toronto	N.	32.6	65	—	—	e 12 4	-14	117.4	18.4
Honolulu	E.	34.8	256	—	—	—	—	e 14.8	18.9
Ithaca		35.2	66	—	—	e 15 22	?SR ₁	18.3	19.8
Ottawa		35.5	61	—	—	i 12 44	-19	e 17.0	22.7
Cheltenham	N.	35.5	73	—	—	—	—	e 17.5	—
Fordham		37.3	70	(7 19)	-13	(e 13 38)	+10	(i 20.3?)	(21.9)
Harvard	N.	39.1	65	—	—	—	—	19.7	22.4
Apia		68.8	233	—	—	—	—	—	30.9
La Paz		73.4	127	11 48	+10	e 22 12	+ 5	37.9	43.0
Edinburgh		74.0	30	—	—	e 22 4	+50	39.9	46.9
Stonyhurst		75.7	33	—	—	22 22	+48	40.9	45.4
Sucre		77.2	127	112 11	+ 9	i 21 55	+ 7	39.9	44.5
Oxford		77.7	33	—	—	i 22 11	+14	e 38.9	48.1
Upsala	N.	78.1	20	e 12 9	+ 1	e 22 0	- 1	—	49.4
Kew		78.4	32	e 12 11	+ 2	22 7	+ 2	38.9	45.0
De Bilt		80.2	30	—	—	—	—	e 40.9	—
Uccle	Z.	80.8	30	e 12 26	+ 2	e 22 33	0	e 40.9	—
Hamburg		80.8	26	e 12 26	+ 2	i 22 34	+ 1	e 41.9	48.9
Leningrad		80.8	13	e 12 20	- 4	i 22 32	- 1	38.8	46.7
Pulkovo		81.1	13	e 12 19	- 7	i 22 30	- 6	38.9	41.4
Paris		81.5	33	e 12 31	+ 3	e 23 25	+44	39.9	46.9
Irkutsk		82.5	334	i 12 31	- 2	22 50	- 2	42.9	—
Strasbourg		83.9	30	12 41	0	e 23 12	+ 4	41.9	57.9
Besançon		84.3	32	—	—	—	—	45.9	—
Cheb		84.6	26	—	—	—	—	44.9	53.9
Toledo	N.E.	84.8	42	—	—	—	—	43.1	48.6
Zurich		85.2	30	e 12 43	- 6	e 23 3	-18	—	—
San Fernando		85.9	47	—	—	—	—	40.9	—
Chur		86.0	30	e 12 53	0	—	—	—	—
Kucino		86.2	10	—	—	e 23 17	-15	40.1	45.6
Tortosa	N.	86.5	40	—	—	—	—	e 42.9	—
Ekaterinburg		86.7	358	i 12 50	- 7	23 16	[+ 9]	37.9	47.5
Granada		86.8	45	i 13 2	+ 4	e 23 35	- 4	e 41.9	46.9
Moncalieri		86.8	32	e 11 40	-78	23 35	- 4	43.0	53.3
Vienna		87.5	26	—	—	e 22 52?	-55	e 49.9	56.9
Almeria		87.7	44	13 7	+ 4	e 23 54	+ 5	—	47.6
Graz		88.2	27	—	—	e 23 47	- 7	44.9	53.8
Budapest		89.1	24	—	—	e 23 22	[+ 1]	e 48.4	—
Florence	Z.	89.2	30	e 17 57	?PR ₁	e 25 52	?PS	44.9	50.9
Zi-ka-wei		90.0	310	13 5	-11	25 29	+75	—	—
Makeyevka		93.6	13	e 17 11	?PR ₁	e 23 58	[+ 8]	47.9	54.8
Wellington		96.9	222	—	—	—	—	e 48.9	—
Baku		102.7	6	e 18 22	?PR ₁	e 24 53	[+16]	45.9	55.9

Additional readings: Lick iPEN = +17s. Santa Clara iPEN = +17s.
 iZ = +19s., iN = +20s. Berkeley iPEN = +25s. ePZ = +26s., PR₁Z = +31s., PR₁ = +37s., iE = +40s. Tucson eEN = +2m.56s., eN = +3m.28s., eE = +3m.50s., Spokane iPEN = +2m.55s. and +2m.57s., iSN = +5m.14s., iEN = +7m.9s. Denver ePE = +4m.4s. Saskatoon MN = +12.6m.; T₀ = 12h.35m.19s. St. Louis SR₁N = +10m.46s., SR₁N = +11m.17s., MN = +14.2m. Chicago ME = +17.4m. Ann Arbor eSR₁ = +13m.4s., eLN = +15.7m., MN = +17.7m. Toronto iSN = +12m.7s., LE = +19.9m. Honolulu eLN = +14.7m., MN = +18.7m. Ottawa eSR₁N = +15m.0s. = SR₁ - 9s., MN = +19.8m. Fordham i = (+11m.42s.), eN = (+15m.52s.) = SR₁ + 4s., and (+18m.26s.); T₀ = 12h.35m.30s.; all the readings have been increased by 2m. Harvard SR₁ = +16m.36s., eLE = +20.8m., ME = +24.4m. La Paz LN = +39.8m., MN = +43.6m.; T₀ = 12h.35m.22s. Kew MN = +46.9m. Leningrad i = +12m.25s. Pulkovo iP = +12m.24s., SR₁ = +26m.34s., SR₁ = +30m.52s., MNZ = +46.7m. Paris MN = +48.9m. Irkutsk e = +18m.45s. = PR₁ - 28s. Strasbourg eP = +12m.57s., PS = +23m.58s., MN = +50.6m. Cheb e = 12h.18m.32s. Toledo MNW = +48.8m. Kucino e = +23m.24s., +28m.37s., and +32m.40s., MN = +51.8m. Ekaterinburg i = +12m.55s., e = +14m.20s., +16m.12s. = PR₁ - 29s., and +18m.1s. = PR₁ - 50s., MN = +53.8m., MZ = +54.1m. Moncalieri MN = +53.5m. Zi-ka-wei PR₁ = +16m.42s. Makeyevka eP = +25m.37s. = PS - 13s., e = +35m.16s. = SR₁ - 26s., MZ = +63.0m. Baku e = +28m.13s. = PS + 38s., +41m.2s. = SR₁ + 0s., MN = +61.4m., MZ = +69.6m. S at the following stations is probably PS: Edinburgh, Stonyhurst, Paris, Florence, and Zi-ka-wei.

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 Stora 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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Oct. 22d. 13h. 35m. 22s. Epicentre 36°·5N. 122°·0W. (as at 12h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Lick		0·9	18	10 17	+ 3	10 28	+ 3	—	—
Santa Clara	Z.	0·9	2	11 1	+47	—	—	—	—
Berkeley	Z.	1·4	352	10 25	+ 4	10 40	+ 1	—	—
Pasadena		4·0	125	1 5	+ 3	—	—	—	—
Riverside		4·5	122	1 14	+ 4	12 7	+ 3	—	—
Tucson	E.	10·1	111	2 45	+14	—	—	5·4	7·3
	N.	10·1	111	e 2 43	+12	—	—	—	6·9
Spokane		11·6	15	i 2 52	— 1	e 4 51	-18	5·4	—
Victoria		11·9	355	2 51	— 7	—	—	6·6	8·2
Saskatoon	E.	19·0	30	i 4 33	+ 4	18 8	+ 6	110·1	11·2
Sitka		22·4	341	—	—	e 9 12	-1	e 14·4	15·4
St. Louis	N.	25·1	75	—	—	e 10 4	— 1	12·6	14·0
Tacubaya		26·3	124	6 2	+11	e 10 54	+26	13·4	18·1
Chicago		27·0	68	—	—	e 10 32	- 9	e 13·0	17·5
Ann Arbor		29·9	67	8 20	+113	e 13 2	+90	17·0	18·3
Toronto	N.	32·6	65	—	—	e 12 8	-10	117·9	18·9
Honolulu	E.	34·8	256	—	—	—	—	e 14·8	18·8
Ithaca		35·2	66	—	—	i 14 8	+70	18·2	19·8
Ottawa		35·5	61	e 7 2	-16	e 12 42	-21	e 16·4	22·3
Cheltenham	N.	39·1	73	—	—	—	—	e 18·5	—
Harvard	N.	39·1	65	—	—	—	—	19·6	22·4
Azores		72·9	55	45 38?	!L	—	—	(45·6)	51·6
La Paz		73·4	127	e 11 49	+11	—	—	38·6	42·3
Edinburgh		74·0	30	—	—	e 22 2	+48	38·6	47·6
Stonyhurst		77·2	33	—	—	23 12	+98	40·6	45·1
Sucre		77·2	127	i 11 59	- 3	i 21 58	+ 7	39·6	44·4
Oxford		77·7	33	—	—	—	—	38·5	48·0
Upsala		78·1	20	—	—	e 21 58	- 3	—	47·2
Kew		78·4	32	e 11 38?	-31	—	—	38·6	47·0
De Bilt		80·2	30	—	—	—	—	e 40·6	48·3
Uccle		80·8	30	—	—	e 22 36	+ 3	e 40·6	—
Hamburg		80·8	26	—	—	e 22 38	+ 5	e 42·6	48·6
Leningrad		80·8	13	e 12 25	+ 1	—	—	36·8	46·6
Pulkovo		81·1	13	e 12 23	- 3	e 22 30	- 6	38·6	46·3
Paris		81·5	33	e 16 20	?PR ₁	e 22 51	+10	41·6	46·6
Irkutsk		82·5	334	—	—	—	—	43·6	48·9
Strasbourg		83·9	30	e 12 38?	- 3	e 22 56	-12	41·6	57·6
Besançon		84·3	32	—	—	—	—	45·6	—
Cheb		84·6	26	—	—	—	—	e 45·6	53·6
Toledo	N.W.	84·8	42	—	—	22 21	-56	—	49·5
San Fernando		85·9	47	—	—	—	—	40·6	—
Kucino		86·2	10	—	—	—	—	40·4	45·5
Ekaterinburg		86·7	358	12 49	- 8	23 15	-23	39·1	47·4
Granada		86·8	45	—	—	—	—	e 42·6	47·6
Moncalieri		86·8	32	e 10 34	-144	23 36	- 3	43·2	—
Vienna		87·5	26	—	—	—	—	e 49·6	56·6
Almeria	Z.	87·7	44	—	—	—	—	—	48·5
Graz		88·2	27	—	—	—	—	50·6	—
Budapest		89·1	24	—	—	e 24 8	+ 4	e 48·4	—
Florence	Z.	89·2	30	—	—	—	—	44·6	49·6
Makeyevka		93·6	13	—	—	e 26 30	?PS	49·1	65·8
Wellington		96·9	222	—	—	—	—	e 48·6	—
Tashkent		101·5	351	—	—	—	—	—	69·0
Baku		102·7	6	—	—	—	—	47·6	55·7

Additional readings: Lick iP = +20s. Santa Clara iPEN = +1m.9s.,
 iZ = +1m.15s., iEN = +1m.16s. and +1m.46s. Pasadena PR₁ =
 +1m.14s., PS = +1m.21s. Riverside PR₁ = +1m.25s. and +1m.38s.
 Berkeley PR₁Z₁ = +26s. Tucson eE = +3m.22s., +4m.13s., and
 +5m.0s., eN = +3m.55s., and +5m.13s. Spokane i = +2m.55s.,
 iS = +4m.52s. Saskatoon MN = +12·6m.; T₀ = 13h.35m.27s. St.
 Louis SR₁N = +11m.0s., ME = +15·7m. Chicago eN = +9m.51s. and
 +11m.50s., =SR₁-2s., MN = +15·6m. Ann Arbor eSR₁ = +14m.8s.,
 eLN = +15·5m., MN = +17·5m. Toronto ME = +20·8m. Honolulu
 eLN = +14·6m., MN = +15·9m. Ottawa eSR₁N = +15m.0s. =
 SR₁-9s., MN = +19·6m.; T₀ = 13h.35m.15s. Harvard SR₁N =
 +16m.30s., ME = +24·1m. Sucre iPS = +22m.35s. Kew
 MN = +45·8m. De Bilt MZ = +47·2m., MN = +47·4m. Pulkovo
 MZ = +46·7m., MN = +46·8m. Paris MN = +49·6m. Irkutsk
 MZ = +49·1m. Strasbourg PS = +23m.46s., MN = +50·6m. Toledo
 MNE = +48·6m. Kucino e = 13h.28m.44s., MN = +51·8m.
 Ekaterinburg MN = +53·8m., MZ = +54·0m. Makeyevka e =
 +36m.10s. = SR₁+28s., MN = +58·7m., MZ = +62·8m. Tashkent
 MN = +71·3m. Baku MN = +65·1m., MZ = +69·6m.

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Oct. 22d. 14h. 41m. 50s. (I) } Epicentre 36°·5N. 122°·0W. (as above).
 16h. 3m. 50s. (II) }

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
I Lick	0·9	18	10 15	+ 1	10 24	- 1	—
II	0·9	18	e 0 14	0	10 27	+ 2	—
I Santa Clara	0·9	2	i 1 13	+59	i 1 22	+57	i 11·9
II	0·9	2	i 1 13	+59	i 1 23	+58	—
I Berkeley z.	1·4	352	10 24	+ 3	10 37	- 2	—
II	1·4	352	10 22	+ 2	10 39	0	0·9
I Pasadena	4·0	125	1 4	+ 2	1 58	+ 8	—
II	4·0	125	e 1 6	+ 4	1 52	+ 2	—
II Tucson	10·1	111	—	—	—	—	e 5·5

Additional readings : Lick I iSNZ? = +27s., II PR₁ = +18s., PR₂ = +20s.
 Berkeley I PR₁Z = +27s., II iPNZ = +24s., PR₁NZ = +27s. Pasadena I
 PS = +1m.13s., PR₁ = +1m.14s.

Oct. 22d. 16h. 44m. 5s. Epicentre 40°·5N. 45°·0E. (as on 1923 May 12d.).

A = +·538, B = +·538, C = +·649; D = +·707, E = -·707;
 G = +·459, H = +·459, K = -·760.

According to a Reuter's telegram printed in *The Times* for 1926 Oct. 25d., "At Leninakan (Alexandrapol) 15 persons were killed and 80 seriously injured, while in the district round about 300 persons were killed and 300 injured. Twelve villages were badly damaged, six of them being almost completely destroyed."

There is this quaint addition: "A telegram from the Seismographic Station at Tiflis states that the earthquake was due to a collision between massive mountain layers."—*Reuter*.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	3·7	91	e 1 29	+31	2 48	+66	—	6·2
Piatigorsk	3·9	338	e 1 4	+ 3	e 1 51	+ 4	—	—
Makeyevka	9·0	328	e 1 32	-44	e 3 58	- 5	4·9	14·2
Kucino	16·0	345	e 3 52	·0	6 48	- 7	8·7	—
Athens E.	16·7	268	—	—	e 6 25	-46	e 10·1	10·3
Tashkent	18·3	80	17 39	?S	(17 39)	- 8	e 13·9	19·2
Ekaterinburg	19·3	26	14 42	+ 9	i 8 22	+14	10·4	15·2
Budapest E.	19·8	299	e 4 25	-14	—	—	—	—
Pulkovo	21·4	340	14 54	- 4	8 46	- 7	11·4	13·2
Leningrad	21·6	340	4 56	- 4	e 8 50	- 7	11·8	13·2
Vienna	21·7	300	e 4 59	- 2	e 8 55?	- 4	—	18·9
Florence	25·1	289	e 10 10	?S	(e 10 10)	+ 5	—	16·9
Upsala N.	25·8	328	—	—	e 9 55?	-23	—	—
Hamburg	26·9	311	—	—	e 7 55?	?	e 15·2	18·3
Strasbourg	27·5	300	—	—	e 10 55?	+ 5	—	—
Moncalieri	27·5	292	—	—	—	—	e 17·4	—
De Bilt	29·4	307	—	—	(e 11 55?)	+31	e 11·9	—
Uccle	29·8	304	—	—	(e 10 55?)	-36	e 10·9	—
Kew	32·7	305	—	—	—	—	15·9	—
Stonyhurst	34·2	307	(e 8 55?)	+108	—	—	e 19·0	—
Irkutsk	41·3	53	—	—	e 14 33	+ 8	e 23·6	—
Hong Kong	60·2	86	—	—	—	—	—	56·9
Manila	70·0	89	—	—	—	—	—	55·9

Additional readings and notes: Baku iP = +1m.46s. Piatigorsk eP = +1m.14s. Makeyevka i = +5m.50s., MZ = +9·7m., MN = +10·3m.
 Tashkent MZ = +15·2m., MN = +15·4m. Ekaterinburg MN = +13·4m.,
 MZ = +15·6m. Budapest eN = +6m.25s. Pulkovo i = +4m.56s.,
 MN = +13·3m. Leningrad i = +4m.59s. Vienna iE = +8m.7s.
 Hamburg MN = +20·8m. Stonyhurst i = +21m.57s.; each reading is given as a separate shock.

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Oct. 22d. 17h. 20m. 52s. (I) } Epicentre 2°48. 98°-8E. (given by Batavia).
18h. 39m. 0s. (II)

A = -153, B = +987, C = -042; D = +988, E = +153;
G = +006, H = -041, K = -999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
I Batavia	8.9	116	13 59	9S	(13 59)	- 2	—	—
II	8.9	116	12 2	-13	(14 15)	+14	—	—
I Phu-Lien	24.5	18	e 5 33	0	e 9 43	-11	11.6	—
II	24.5	18	e 5 24	- 9	e 9 50	- 4	13.0	—
II Kodaikanal	24.8	301	e 13 18	9L	—	—	(e 13.3)	—
II Manila	27.8	52	—	—	—	—	—	16.0
II Hong Kong	28.9	30	—	—	—	—	—	20.5
I Tashkent	51.3	332	(19 10)	- 5	(16 19)	-16	—	(25.0)
II	51.3	332	(19 14)	- 1	(16 35)	0	(e 29.5)	(31.5)
I Irkutsk	54.9	4	e 9 55	+17	e 17 17	- 3	30.1	—
II	54.9	4	e 9 38	0	e 17 22	+ 2	30.0	35.8
II Baku	61.8	320	—	—	—	—	—	32.0
I Ekaterinburg	66.7	340	11 2	+ 6	e 19 41	- 5	33.1	—
II	66.7	340	11 2	+ 6	19 55	+ 9	33.0	—
II Uccle	94.7	322	—	—	—	—	e 56.0	—

Additional readings: Batavia I i = +8m.31s., II i = +3m.35s. Tashkent I
MNZ = (+34.1m.), II i = (+13m.2s.) = PR₂ + 20s., e = (+20m.30s.) = SR₁ + 0s.
and (+21m.36s.) = SR₂ - 24s., MZ = (+32.2m.), MN = (+32.6m.); all the
readings have been diminished by 3m. Irkutsk II MZ = +35.9m.

Oct. 22d. 19h. 59m. 20s. Epicentre 40°-5N. 45°-0E. (as at 16h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Baku	3.7	91	11 28	+30	12 26	+44	13.1	8.8
Platigorsk	3.9	338	11 7	+ 6	1 56	+ 9	2.2	2.5
Makeyevka	9.0	328	12 16	0	4 3	0	5.7	6.0
Helwan	15.4	231	e 3 47	+ 3	6 40	- 1	—	10.6
Kucino	16.0	345	13 52	0	17 2	+ 7	8.8	8.9
Athens	E. 16.7	268	e 3 59	- 2	e 7 11	+ 0	—	10.4
N. 16.7	268	e 3 59	- 2	17 16	+ 5	19.1	10.0	
Tashkent	18.3	80	16 48	+147	110 26	+159	14.0	15.7
Ekaterinburg	19.3	26	14 42	+ 9	18 21	+13	9.7	15.2
Budapest	19.8	299	4 35	- 4	8 17	- 2	e 11.2	15.5
Pulkovo	21.4	340	14 55	- 3	8 44	- 9	11.7	14.1
Leningrad	21.6	340	14 57	- 3	e 8 47	-10	11.8	13.3
Vienna	21.7	300	4 55	- 6	8 52	- 7	—	17.7
Zagreb	21.7	294	e 4 57	- 4	e 8 54	- 5	115.4	—
Graz	22.1	297	15 3	- 3	(9 7)	—	—	—
Laibach	22.7	294	15 9	- 4	e 9 17	- 0	—	—
Pompeii	23.0	231	e 5 40	+23	—	—	—	—
Rocca di Papa	E. 24.2	234	e 5 28	- 2	e 10 1	+13	—	—
N. 24.2	234	e 4 54	-36	e 9 41	- 7	—	10.1	
Z. 24.2	234	e 4 48	-42	e 9 36	-12	—	10.7	
Cheb	24.6	304	e 5 30	- 4	19 51	- 4	e 12.7	17.7
Innsbruck	25.0	297	5 25	-13	9 48	-15	—	—
Florence	Z. 25.1	289	5 36	- 3	9 55	-10	—	12.0
Upsala	25.8	328	e 5 39	- 7	e 10 8	-10	e 13.7	16.4
Chur	26.2	296	5 41	- 9	10 14	-12	—	—
Ravensburg	E. 26.2	298	e 5 40	-10	e 10 26	0	e 10.7	11.0
Hohenheim	E. 26.5	300	15 50	- 3	e 10 16	-16	e 10.8	20.1
N. 26.5	300	e 5 30	-23	e 10 0	-32	—	—	
Hamburg	26.9	311	e 5 49	- 8	e 10 18	-21	e 14.7	18.3
Zurich	26.9	297	e 5 46	-11	e 10 38	- 1	—	—
Strasbourg	27.5	300	e 5 52	-11	11 16	+26	e 14.2	18.7
Moncalieri	27.5	292	5 58	- 5	10 24	-26	14.1	19.3
Simla	N. 27.5	100	11 4	9S	(11 4)	+14	(13.3)	17.9
Besançon	28.6	297	e 6 4	-10	e 11 11	+ 1	18.7	—
De Bilt	29.4	307	e 6 16	- 6	e 11 12	-12	e 13.7	23.5
Uccle	29.8	304	e 6 16	-10	e 11 11	-20	e 13.7	—
Paris	30.9	300	e 11 8	9S	(e 11 8)	-42	17.7	24.7
Bergen	31.4	323	15 32	-70	—	—	117.4	—

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.
Bombay	32.2	126	6 51	+ 1	e 12 6	- 5	e 17.9	23.8
Kew	32.7	305	—	—	e 11 52	-27	14.7	26.0
Oxford	33.4	305	—	—	12 2	-28	17.2	23.5
Tortosa	33.4	284	—	—	(e 11 40?)	-50	e 11.7	21.5
Stonyhurst	34.2	307	—	—	e 12 22	-21	21.9	25.7
Edinburgh	34.7	313	—	—	e 12 40?	-11	—	23.7
Hyderabad	36.9	119	13 27	?S	(13 27)	+ 5	21.9	22.8
Granada	37.5	280	i 7 53	+19	e 14 22	+51	e 19.7	24.7
San Fernando	39.7	280	—	—	—	—	16.7	25.7
Lisbon	41.0	285	—	—	—	—	—	26.4
Irkutsk	41.3	53	8 8	+ 3	14 32	+ 7	22.7	—
Hong Kong	60.2	86	—	—	—	—	—	41.5
Manila	70.0	89	—	—	—	—	—	47.7
Cape Town	78.3	203	—	—	—	—	—	42.7
Ottawa	79.1	322	e 3 4	?	e 22 10	- 3	e 34.7	—
Toronto	82.1	323	—	—	—	—	e 40.3	—

Additional readings: Platigorsk $i = +1m.13s.$, $+1m.21s.$, and $+1m.25s.$, $e = +1m.15s.$ Makeyevka $MZ = +5.8m.$, $MN = +10.9m.$ Kucino $i = +4m.7s.$ and $+4m.20s.$, $MN = +9.8m.$ Tashkent $MN = +20.2m.$ Ekaterinburg $i = +8m.12s.$ and $+8m.15s.$, $MN = +13.4m.$, $MZ = +14.8m.$ Budapest $iE = +4m.42s.$ and $+5m.1s.$, $MN = +19.7m.$ Pulkovo $MN = +13.1m.$, $MZ = +13.2m.$ Vienna $PR_1 = +5m.29s.$ Zagreb $e = +6m.14s.$ and $+9m.51s.$ Graz $S = +15m.2s.$, $SR_1 = +20m.23s.$, S is given as PR_1 . Upsala $MN = +18.8m.$ Ravensburg $iPR_1E = +6m.50s.$, $iPR_1E = +6m.54s.$ Hohenheim $iPR_1N = +6m.24s.$, $iPR_1N = +6m.29s.$ Hamburg $iE = +7m.40s.$, $MZ = +19.3m.$, $MN = +20.7m.$ Strasbourg $e = +7m.18s.$, $PR_2 = +19s.$, $SR_2 = +13m.10s.$, $SR_2 = +13m.30s.$ Simla $PE = +11m.10s.$, $ME = +20.1m.$, SN is given as PN and LN as $SN.$ De Bilt $MN = +16.6m.$, $MZ = +23.9m.$ Paris $eS = +14m.5s.$, $SR_2 = +7s.$, $MN = +22.7m.$ Irkutsk $PR_1 = +9m.46s.$

Oct. 22d. 23h. 53m. 54s. Epicentre $42^\circ 0'N.$ $22^\circ 5'E.$ (as on 1925 Jan. 15d.).

A = +.687, B = +.284, C = +.669; D = +.383, E = -.924;
G = +.618, H = +.256, K = -.743.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	3.2	333	e 0 51	+ 1	i 1 32	+ 4	—	2.2
Athens	4.2	165	e 1 1	- 4	—	—	—	2.4
Zagreb	6.0	312	e 1 22	-10	i 2 57	+13	—	—
Laibach	7.0	309	e 1 49	+ 3	i 3 35	+25	—	5.0
Vienna	7.6	328	e 2 5	+10	e 3 59	+33	—	4.1
Florence	8.4	286	e 1 36	-31	—	—	—	—
Innsbruck	9.5	308	e 3 14	+51	i 4 23	+ 7	e 4.8	—
Chur	10.4	301	e 2 7	-29	—	—	—	—
Ravensburg	10.8	307	e 1 46	-55	—	—	e 5.5	—
Moncalieri	11.1	291	e 2 51	+ 5	—	—	7.1	—
Zurich	11.2	303	e 2 11	-36	—	—	—	—
Hohenheim	11.5	310	—	—	—	—	e 5.6	—
Strasbourg	12.3	307	e 3 21	+18	e 5 35	+ 9	—	—
Makeyevka	12.5	57	6 22	?	—	—	(6.4)	—
De Bilt	15.5	317	—	—	—	—	e 9.1	—
Kew	18.1	309	—	—	—	—	6.1	—
Ekaterinburg	28.4	45	5 51	-21	—	—	13.1	—
Tashkent	34.6	75	—	—	—	—	e 22.1	25.9

Additional readings: Belgrade $eP = +52s.$, $eS = +1m.33s.$, $MN = +1.9m.$ Zagreb $e = +2m.2s.$, $eS = +2m.27s.$, $i = +2m.39s.$, $iSR_2 = +2m.53s.$, $i = +3m.12s.$ and $+3m.22s.$, and $+3m.49s.$ Laibach $i = +2m.35s.$ and $+3m.4s.$ Chur $i = +3m.35s.$ Ravensburg $eE = +2m.38s.$, $+2m.53s.$, $+4m.4s.$, and $+5m.24s.$ Strasbourg $e = +4m.28s.$ Makeyevka $eS = +8m.18s.$, $L = +9.2m.$

Oct. 22d. Readings also at 1h. (Nagasaki), 2h. (Chur and Zurich), 5h. (Riverstide and Pasadena), 6h. and 8h. (Pasadena), 10h. and 11h. (Nagasaki), 12h. (near Lick), 17h. (near Athens), 18h. (near Sucre and La Paz), 19h. (near Lick), 22h. (Ekaterinburg and near Sucre).

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Oct. 23d. 1h. 58m. 40s. Epicentre 40°0N. 20°0E.

(as on 1924 Nov. 13d.).

A = +.720, B = +.262, C = +.643; D = +.342, E = -.940;
G = +.604, H = +.220, K = -.766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3.6	123	1 18	+22	2 12	+33	12.3	3.0
Mostar	3.7	335	0 58	0	1 14	-28	—	2.0
Pompeii	4.2	281	e 0 30	-35	e 1 20	-35	—	2.7
Naples	4.5	283	e 0 20	-50	e 1 20	-44	—	2.3
Belgrade	4.8	4	i 1 12	-2	i 2 24	+13	—	3.3
Rocca di Papa	5.8	291	e 1 27	-3	e 2 45	+6	13.5	3.8
Zagreb	6.5	335	1 47	+8	i 2 50	-7	13.4	—
Laibach	7.2	328	e 1 41	-8	i 3 16	+1	13.8	4.6
Budapest	7.5	355	1 50	-4	2 30	+6	e 3.8	—
Florence	7.5	303	1 50	-4	—	—	—	3.6
Graz	7.8	337	i 2 10	+12	—	—	3.8	4.4
Venice	7.8	316	—	—	—	—	—	5.3
Vienna	8.6	344	e 2 12	+2	4 23	?L	(4.4)	5.3
Innsbruck	9.6	322	e 2 22	-2	i 4 55	?L	(i 4.9)	5.4
Moncalieri	10.3	303	2 30	-4	4 44	+7	—	8.8
Ravensburg	10.8	320	e 3 4	+23	—	—	e 5.0	6.1
Cheb	11.4	335	e 4 41	?S	(e 4 41)	-23	(i 6.0)	6.3
Hohenheim	11.6	322	—	—	e 5 12	+3	e 5.8	7.0
	11.6	322	e 2 54	+1	e 5 16	+7	e 5.9	6.6
Strasbourg	12.2	318	e 3 10	+8	e 5 41	+17	e 3.3	7.8
Besançon	12.4	310	—	—	e 7 12	?L	9.2	—
Potsdam	13.3	341	e 5 32	+135	i 6 52	+61	e 7.1	7.7
Tortosa	14.8	279	—	—	—	—	e 8.3	10.9
Hamburg	15.2	337	e 4 20	+38	e 7 20	+43	8.3	10.3
Paris	15.2	311	e 4 14	+32	—	—	8.8	11.3
Makeyevka	15.2	42	i 3 44	+2	e 5 30	-67	7.4	8.9
Uccle	15.3	320	—	—	—	—	e 7.3	—
De Bilt	15.8	325	—	—	—	—	e 7.3	9.1
Alicante	16.0	271	—	—	7 8	+13	10.4	12.2
Almeria	17.7	267	i 4 24	+11	7 47	+14	10.5	11.2
Kew	18.1	316	—	—	e 7 32	-10	8.7	10.4
Toledo	18.4	278	e 3 27	-55	7 41	-8	e 8.3	14.0
Granada	18.6	269	i 4 30	+6	i 7 59	+6	e 10.8	12.8
Oxford	18.8	316	—	—	(7 43)	-15	7.7	13.4
Kucino	19.3	32	e 4 35	+2	—	—	9.8	—
Malaga	19.4	278	4 13	-21	8 9	-1	9.5	13.2
Upsala	19.9	356	—	—	—	—	e 11.8	—
Stonyhurst	20.5	320	e 3 10	-97	e 7 58	-36	12.3	15.3
San Fernando	20.8	269	—	—	—	—	10.8	14.3
Pulkovo	20.8	15	4 42	-9	8 31	-9	10.8	12.8
Leningrad	21.0	15	4 43	-10	e 8 33	-11	10.3	12.8
Edinburgh	22.0	324	—	—	e 9 20?	+15	—	15.3
Lisbon	22.5	276	—	—	—	—	—	14.5
Baku	22.7	79	e 5 23	+10	e 9 28	+9	e 14.3	16.4
Ekaterinburg	31.1	44	6 26	-13	11 24	-29	15.8	19.5
Tashkent	36.9	72	e 7 55	+26	12 31	-51	e 21.3	26.1
Irkutsk	56.3	47	—	—	—	—	34.3	—
Ottawa	66.2	310	—	—	—	—	e 33.3	—
Victoria	85.9	337	—	—	—	—	—	52.7

Additional readings: Athens P = +1m.34s. Belgrade iP = +1m.35s.,
i = +1m.56s. Rocca di Papa ePE = +1m.49s., iLN = +3.4m. Zagreb
iP = +1m.55s. and +2m.19s., i = +3m.6s., iS = +3m.14s. Vienna
iE = +3m.10s., and +3m.44s., iN = +3m.28s. and +3m.58s., MN =
+4.5m., MZ = +5.0m. Innsbruck eNE = +3m.25s., eNW = +3m.43s.
Moncalieri MN = +7.7m. Cheb gives S as P and L as S. Hohen-
heim eN = +1m.42s. Strasbourg eP = +3m.38s., MN = +7.1m.
Paris MN = +8.3m. Makeyevka MZ = +8.5m., MN = +9.6m.
De Bilt MZ = +10.5m. Toledo MNE = +13.2m. Oxford MN =
+10.4m. Pulkovo MNZ = +12.7m. Baku MZ = +16.6m.,
MN = +16.8m. Ekaterinburg i = +6m.33s., MZ = +19.6m.
Tashkent e = +8m.6s., +8m.17s., and +15m.14s., MN = +28.8m.

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Oct. 23d. 10h. 31m. 24s. Epicentre 41°·0'N. 44°·0'E. (as on 1925 May 13d.).

A = +·543, B = +·524, C = +·656 ; D = +·695, E = -·719 ;
G = +·472, H = +·456, K = -·755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	3·1	347	e 1 7	+18	e 1 41	+15	1·8	—
Baku	4·5	85	e 1 10	0	e 2 6	+2	3·2	3·7
Makeyevka	8·2	331	e 1 15	-49	e 2 56	-46	4·6	—
Kucino	15·3	347	—	—	—	—	e 8·2	—
Tashkent	19·0	81	e 5 36?	+67	—	—	e 8·6	10·6
Ekaterinburg	19·1	29	4 22	-8	7 59	-5	10·1	14·0
Pulkovo	20·6	340	—	—	7 36?	-60	—	—
Leningrad	20·8	340	(5 18)	+27	—	—	5·3	—

Additional readings : Baku e = +2m.46s., MN = +4·7m., MZ = +5·9m.
Ekaterinburg MZ = +14·4m.

Oct. 23d. 14h. 30m. 18s. Epicentre 25°·0'N. 93°·0'E. (as on 1924 Jan. 30d.).

A = -·047, B = +·905, C = +·423 ; D = +·999, E = +·052 ;
G = -·022, H = +·422, K = -·906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 4·9	240	1 21	+5	—	—	2·7	—
N.	4·9	240	1 24	+8	—	—	2·6	—
Simla	N. 15·2	297	e 7 36	?L	—	—	(e 7·6)	—
Hyderabad	15·5	244	6 30	?S	(6 30)	-14	7·8	9·0
Hong Kong	19·6	94	4 36	0	—	—	—	11·9
Bombay	19·6	256	8 12	?S	(8 12)	-3	10·4	—
Tashkent	25·5	316	e 8 30	?	—	—	16·7	18·7
Taihoku	E. 25·8	84	—	—	—	—	e 13·6	—
Irkutsk	28·6	15	e 6 10	-4	e 11 3	-7	15·7	—
Baku	38·9	305	e 8 4	+19	e 14 18	+27	24·7	29·3
Ekaterinburg	39·4	331	7 42	-8	13 45	-12	19·7	23·7
Makeyevka	48·5	316	—	—	e 15 58	-2	25·7	31·4
Kucino	50·1	322	e 10 24	?	—	—	27·0	—
Pulkovo	54·9	328	—	—	e 17 22	+2	26·7	31·6
Leningrad	55·0	328	—	—	e 17 30	+9	23·3	32·7
De Bilt	69·2	320	—	—	—	—	e 37·7	41·2

Additional readings : Simla ePE = +8m.24s. Hyderabad S = +7m.30s.
Bombay S = +9m.47s. Tashkent e = +12m.42s., MN = +18·1m.
Baku MN = +26·8m., MZ = +32·1m. Ekaterinburg iP = +7m.53s.,
S = +13m.56s., MN = +23·6m., MZ = +25·3m. Makeyevka e =
+18m.44s., +22m.44s., and +24m.32s., MN = +31·0m. Leningrad
MZ = +35·6m., MN = +36·4m.

Oct. 23d. 21h. 27m. 32s. Epicentre 30°·2'S. 75°·0'E. (as on 1926 March 6d.).

A = +·224, B = +·835, C = -·503 ; D = +·966, E = -·259 ;
G = -·130, H = -·486, K = -·864.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	71·7	356	11 28	0	1 20 46	0	e 36·5	42·6
Baku	74·3	341	—	—	e 21 27	+9	38·5	—
Ekaterinburg	87·9	353	12 59	-5	23 54	+3	42·5	—

No additional readings.

Oct. 23d. Readings also at 0h. (Ekaterinburg, Nagasaki, Sucre, and near La Paz), 1h. (near Nagasaki), 2h. (Baku, Nagasaki, and near Mostar), 4h. (Bergen, Nagasaki, Tashkent, and La Paz), 5h. (Tashkent and near Lick), 6h. (Nagasaki, Hong Kong, and near Taihoku), 7h. (Tashkent, Ekaterinburg, and near Lick), 9h. (La Paz and Sucre), 12h. (Baku), 13h. (near Mizusawa), 14h. (Victoria), 16h. (Toronto, Ottawa, and Victoria), 18h. (Irkutsk and Manila), 19h. (Ekaterinburg, Makeyevka, and Tashkent), 23h. (Tashkent).

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Oct. 24d. 22h. 51m. 45s. Epicentre 36°·5N. 122°·0W. (as on Oct. 22d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	0·9	18	10 15	+ 1	10 22	- 3	—	—
Santa Clara	0·9	2	10 9	- 5	10 28	+ 3	—	—
Berkeley	1·4	352	e 0 20	- 1	10 33	- 6	—	—
Pasadena	4·0	125	1 14	+12	1 50	0	—	—
Tucson	N. 10·1	111	—	—	—	—	e 5·8	6·2
Toronto	N. 32·6	65	—	—	—	—	e 18·4	—
Ottawa	35·5	61	—	—	—	—	e 19·2	—

Additional readings: Lick $eE = +19s.$, $iZ = +20s.$, $iN = +21s.$, $iS = +24s.$, and several other i readings. Santa Clara $iPEN = +11s.$, $iZ = +14s.$, $iEN = +17s.$ Berkeley $iPN = +21s.$, $iP = +22s.$ Pasadena $PR_1 = +1m.23s.$, $S = +2m.22s.$ and $+2m.33s.$; $T_0 = 22h.51m.49s.$ Tucson $eE = +5m.56s.$

Oct. 24d. Readings also at 1h. (near Malabar), 8h. (Kucino), 9h. (Tashkent), 11h. (Nagasaki), 12h. (Ekaterinburg, Makeyevka, and near Mostar), 13h. (Hyderabad, Bombay, Baku, Tashkent, and Nagasaki), 16h. (Mizusawa), 17h. (Ekaterinburg), 21h. (near Athens), 23h. (Apia).

Oct. 25d. 14h. 2m. 0s. Epicentre 41°·5N. 40°·5E. (as on 1925 June 30d.).

$A = +·570$, $B = +·486$, $C = +·663$; $D = +·649$, $E = -·760$;
 $G = +·504$, $H = +·430$, $K = -·749$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	3·1	34	e 1 0	+11	e 1 34	+ 8	1·8	2·0
Makeyevka	6·7	345	2 47	+65	—	—	5·0	6·1
Baku	7·2	96	1 58	+ 9	3 5	-10	3·6	—
Pulkovo	19·3	344	—	—	—	—	e 11·6	—
Leninrad	19·5	344	—	—	—	—	e 11·8	—
Ekaterinburg	20·1	33	4 42	0	8 22	- 3	10·5	—
Tashkent	21·5	81	—	—	1 11 21	?L	e 13·5	16·4

Additional readings: Baku $e = +2m.39s.$ Makeyevka $MN = +6·5m.$

Oct. 25d. 15h. 38m. 40s. Epicentre 34°·0S. 73°·0W. (as on 1926 March 5d.).

$A = +·242$, $B = -·793$, $C = -·559$; $D = -·956$, $E = -·292$;
 $G = -·163$, $H = +·535$, $K = -·829$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	12·5	98	3 11	+ 5	5 26	- 6	6·4	—
Sucre	16·5	27	14 0	+ 1	17 3	- 4	8·8	10·4
La Paz	18·0	15	14 25	+ 8	17 40	0	9·9	12·1
San Fernando	E. 93·9	48	—	—	—	—	—	61·8
Uocle	108·6	41	—	—	—	—	e 57·3	—
De Bilt	109·7	41	—	—	—	—	e 60·3	—
Pulkovo	125·3	36	—	—	—	—	e 71·3	—
Leninrad	125·3	36	—	—	—	—	72·1	—
Baku	134·9	64	e 23 14	?PR ₁	e 41 20?	?SR ₁	e 71·3	—
Ekaterinburg	141·4	39	22 46	?PR ₁	—	—	61·3	—
Tashkent	149·5	65	e 23 2	?PR ₁	—	—	e 78·3	90·6
Irkutsk	161·6	5	—	—	—	—	e 90·3	—

Additional readings: Sucre $i = +7m.6s.$ and $+7m.33s.$ La Paz $MN = +11·4m.$; $T_0 = 15h.38m.58s.$ San Fernando $MN = +58·8m.$ Tashkent $e = +36m.51s.$ and $+46m.38s.$, $MN = +95·1m.$ (Possibly all the readings are 5 min. too large ?)

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Oct. 25d. Readings also at 0h. (Ekaterinburg and Tashkent), 1h. (Batavia), 2h. (Kew, De Bilt, Makeyevka, Baku, Ekaterinburg, and Irkutsk), 3h. (Ekaterinburg, Makeyevka (2), De Bilt, and Nagasaki), 7h. (Nagasaki), 8h. (Riverview and Nagasaki), 9h. (Ekaterinburg), 10h. (near Athens), 11h. (Reykjavik), 12h. (Irkutsk, Tashkent, Manila, Zi-ka-wei, and near Taihoku), 13h. (De Bilt, Uccle, Ekaterinburg, Pulkovo, Leningrad, and near Batavia), 16h. (Sucre and La Plata), 18h. (La Plata, Ekaterinburg, and Tashkent).

Oct. 26d. 1h. 59m. 0s. Epicentre 2°7S. 133°8E. (see 3h.).

A = -0.752, B = +0.658, C = -0.047; D = +0.659, E = +0.752;
G = +0.035, H = -0.031, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	e 5 41	+ 6	(10 25)	+28	10.4	—
Adelaide	32.3	180	—	—	17 0?	?L	19.0?	19.6
Riverview	33.2	161	e 15 16	?L	e 17 15	?	e 18.3	20.5
Melbourne	35.6	172	e 8 30	?PR ₁	—	—	18.5	19.4
Christchurch	50.7	149	(9 36)	+25	(16 48)	+21	(20.2)	(32.7)
Irkutsk	62.2	338	i 10 26	0	18 55	+ 4	32.0	—
Tashkent	76.6	315	i 14 56	+177	i 24 46	+182	e 41.0?	47.7
Ekaterinburg	85.8	327	12 42	-10	23 15	-13	34.0	52.9
Baku	91.0	311	e 13 2	-19	e 24 0	-24	e 44.0	—
Makeyevka	99.2	319	—	—	—	—	57.0	64.0
Pulkovo	101.5	331	—	—	e 32 45	?SR ₁	51.0	61.9
Leningrad	101.5	331	—	—	—	—	54.0	63.2
De Bilt	117.4	330	—	—	—	—	e 60.0	—
Uccle	118.6	330	—	—	—	—	60.0	—
Toronto	N. 126.9	34	—	—	—	—	65.4	—
Ottawa	127.7	30	—	—	—	—	e 63.5	—
La Paz	147.2	126	i 20 11	[+20]	—	—	—	—
Sucre	147.9	133	19 49	[- 4]	—	—	—	—

Additional readings and notes: Adelaide MN = +20.3m. Riverview SR₁ = +17m.31s., MN = +20.7m.; if the readings are diminished throughout by 3 min. then +12m.16s. = S-12s., +14m.15s. = SR₁-3s. and +14m.31s. = SR₁-16s. Christchurch S was recorded as SR₁; all readings have been increased by 15m. Tashkent i = +15m.20s. = PR₁+0s. and +17m.53s. = PR₁-9s., e = +25m.6s., MN = +47.4m. Ekaterinburg MZ = +46.8m. Baku ePR₁ = +16m.48s. Makeyevka e = +40m.2s. = SR₁+6s. and +47m.14s., MZ = +61.8m., MN = +66.7m. Pulkovo MN = +60.6m., MZ = +61.6m. Leningrad MZ = +63.1m., MN = +65.1m. Ottawa eLN = +65.4m.

Oct. 26d. 3h. 44m. 35s. Epicentre 2°7S. 133°8E.

(as at 1h., and given by De Bilt).

A = -0.752, B = +0.658, C = -0.047; D = +0.659, E = +0.752;
G = +0.035, H = -0.031, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	i 5 25	-10	e 11 25	+88	i 17.3	18.9
Malabar	31.4	264	6 34	-8	(13 0)	+62	13.0	—
Batavia	32.0	265	i 6 35	-12	i 13 15	+67	20.6	—
Adelaide	32.3	180	6 25	-26	i 11 25	-48	i 12.8	19.4
Taihoku	32.4	330	6 40	-12	(11 57)	-17	12.0	16.9
Riverview	33.2	161	i 6 38	-20	12 1	-27	e 15.7	16.9
Sydney	33.2	161	6 37	-21	12 1	-26	15.0	17.7
Hong Kong	34.7	318	6 56	-15	10 50	-121	12.5	18.3
Melbourne	35.6	172	i 7 1	-17	i 12 37	-27	i 18.5	18.9
Nagasaki	36.4	349	7 14	-11	12 59	-17	15.8	18.5
Hukuoka	37.1	350	7 22	-9	13 8	-17	17.0	18.8
Sumoto	37.2	356	7 19	-13	9 10	?PR ₁	12.1	16.3
Osaka	37.5	356	7 24	-13	13 5	-26	18.2	21.2
Kobe	37.5	356	7 21	-13	13 11	-20	18.4	23.1
Zi-ka-wei	37.7	338	i 7 25	-11	i 13 16	-18	—	19.5

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	37-9	358	7 13	-24	13 0	-37	16-0	23-0
Toyooka	38-5	356	7 30	-12	13 20	-25	16-4	19-3
Suva	41-7	115	i 7 55	-14	i 13 55	-36	18-0	—
Mizusawa	E. 41-9	3	8 0	-10	14 9	-25	20-4	—
	N. 41-9	3	7 57	-13	14 10	-24	20-4	—
Ootomari	49-5	3	8 58	-6	(16 3)	-10	16-0	20-4
Apia	50-1	105	9 56	+48	17 5	+45	25-1	27-4
Wellington	E. 50-4	145	i 8 56	-13	i 16 2	-22	i 21-6	27-4
	N. 50-4	145	i 8 54	-15	i 15 58	-26	i 21-6	28-2
Christchurch	50-7	149	—	—	—	—	58-2	62-2
Calcutta	E. 55-3	300	9 50	+9	17 30	+5	—	32-1
	N. 55-3	300	9 51	+10	17 37	+12	24-0	29-4
Colombo	59-6	280	10 20	+11	14 35	?PR ₁	22-3	30-0
Irkutsk	62-2	338	i 10 31	+5	18 53	+2	29-4	35-4
Kodaikanal	62-5	283	i 10 43	+14	(i 19 37)	?PS	i 19-6	52-6
Hyderabad	62-8	291	i 10 35	+4	19 3	+5	31-0	37-2
Honolulu	E. 66-2	66	i 10 54	+1	i 19 43	+3	i 30-2	31-5
	N. 66-2	66	e 11 1	+8	i 19 40	0	i 26-9	31-9
Simla	E. 67-6	306	10 49	-13	19 43	-14	33-6	41-6
	N. 67-6	306	10 49	-13	19 43	-14	32-1	45-2
Bombay	68-3	292	11 8	+2	19 56	-10	35-5	40-2
Tashkent	76-6	315	i 15 1	+182	i 24 44	+180	—	—
Ekaterinburg	85-8	327	i 12 47	-5	i 23 15	-13	32-4	41-9
Sitka	E. 90-0	33	—	—	i 23 32	[+4]	e 36-7	43-4
	N. 90-0	33	—	—	23 38	[+10]	36-6	45-4
Baku	91-0	311	i 13 12	-9	i 24 13	-11	—	—
Piatigorsk	95-9	315	e 13 28	-20	24 44	-31	—	52-4
Victoria	E. 97-2	41	14 34	+39	25 14	-14	35-9	47-8
	N. 97-2	41	14 40	+45	25 19	-9	—	47-9
Berkeley	98-6	52	e 13 51	-12	i 24 22	[+5]	e 40-7	—
Makeyevka	99-2	319	e 13 48	-18	25 24	-24	45-4	67-8
Lick	99-3	52	e 17 57	?PR ₁	e 24 22	[+1]	e 32-2	45-8
Spokane	101-2	41	e 17 34	[-17]	24 14	[-16]	i 42-5	55-4
Pulkovo	101-5	331	i 13 59	-19	i 25 37	-33	45-4	54-0
Leningrad	101-5	331	i 14 0	-18	i 25 39	-31	39-4	62-4
Entebbe	106-3	270	14 43	+2	25 19	[+26]	—	—
Helwan	106-5	300	14 4	-38	25 1	[+7]	—	66-2
Johannesburg	107-3	241	—	—	25 25?	[+27]	—	62-4
Uppsala	107-5	334	e 14 29	-17	—	?	e 44-4	57-3
Lemberg	E. 107-8	321	e 17 7	?	e 28 31	+83	e 41-9	67-5
	N. 107-8	321	e 16 55	?	e 28 1	+53	—	67-5
Tucson	108-6	56	17 56	[-21]	e 26 9	-66	49-2	51-7
Athens	111-2	310	17 37	?	e 28 50	+71	e 52-4	56-8
Belgrade	111-7	318	e 19 20	?PR ₁	e 28 29	+46	52-3	63-4
Budapest	111-7	321	14 47	-19	22 2	?PR ₁	e 34-9	70-1
Denver	111-7	47	e 17 42	?	—	?	46-4	55-4
Bergen	112-3	337	21 13	?PR ₁	31 23	?	46-4	60-4
Vienna	113-0	322	e 14 44	-17	25 15	[-7]	e 40-4	70-4
Cape Town	113-1	230	14 59	-13	29 6	+71	53-4	61-2
Mazatlan	113-8	65	—	—	36 25	?	52-7	—
Hamburg	114-1	330	e 15 0	-16	—	?	e 48-4	60-4
Graz	114-3	321	e 19 14	[+40]	e 29 18	+75	43-4	70-8
Zagreb	114-3	320	19 6	[+31]	i 29 43	+99	e 39-4	68-2
Cheb	114-6	325	e 18 41	[+5]	e 27 42	-25	e 51-4	64-4
Laibach	115-1	320	e 19 42	?PR ₁	—	—	e 57-0	65-0
Gorje	115-2	321	19 51	?PR ₁	28 55	+43	—	58-6
Innsbruck N.W.	116-5	323	—	—	—	—	—	58-2
Venice	116-7	320	20 25?	?PR ₁	—	—	—	—
Hohenheim	117-0	325	—	—	e 28 1	-25	e 51-8	65-6
Pompeii	117-2	315	e 18 4	[-41]	e 29 4	+36	—	64-4
Dyce	117-3	337	—	—	i 29 45	+77	49-4	64-9
Ravensburg	E. 117-3	325	—	—	—	—	e 55-4	68-6
Naples	E. 117-4	315	e 19 25?	[+40]	e 28 25?	-4	45-4	60-4
De Bilt	117-4	330	15 12	-19	—	—	e 52-4	62-4
Chur	117-9	323	e 18 51	[+4]	—	—	—	—
Strasbourg	118-0	325	—	—	i 29 45	+71	e 35-4	69-4
Rocca di Papa	118-0	317	e 19 4	[+17]	e 29 46	+72	e 48-0	74-7
Zurich	118-1	323	e 18 54	[+7]	—	—	—	—
Florence	118-2	318	e 15 25?	-10	—	—	58-4	72-4
Uccle	118-6	330	e 15 17	-19	—	—	e 36-4	58-1
Edinburgh	118-7	336	i 20 27	?PR ₁	—	—	38-4	65-8
Besançon	119-7	324	e 20 25	?PR ₁	—	—	36-4	59-4
Moncalieri	119-8	322	i 20 22	?PR ₁	30 59	?	44-0	75-3
Stonyhurst	119-8	334	—	—	—	—	56-8	62-4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Kew	120.5	332	e 15 29	-16	—	—	37.4	57.7
Oxford	120.7	333	i 20 26	?PR ₁	—	—	e 47.4	74.2
Paris	120.7	328	e 20 32	?PR ₁	e 28 56	+ 1	37.4	59.4
Tacubaya	121.0	69	20 23	?PR ₁	30 23	+86	56.0	57.6
Puy de Dôme	122.2	325	e 22 25?	?	—	—	e 42.4	71.5
St. Louis	N. 122.8	44	e 18 47	[-13]	e 25 44	[- 9]	e 51.4	60.5
Chicago	123.0	40	—	—	i 26 12	—	e 48.7	60.1
Barcelona	125.1	320	e 20 50	?PR ₁	e 32 18	?	e 42.2	67.7
Ann Arbor	125.2	36	19 31	[+25]	e 31 1	?	e 54.2	63.8
Bagnères	125.3	324	—	—	e 30 55	?	e 47.4	71.9
Tortosa	E. 126.5	321	e 20 49	?PR ₁	31 17	?	e 53.4	73.4
	N. 126.5	321	e 20 59	?PR ₁	31 18	?	53.8	71.8
Algiers	E. 126.9	316	e 19 10	[- 1]	21 25?	?PR ₁	48.4	80.4
Toronto	E. 126.9	34	i 14 9	-125	i 28 2	-97	57.5	64.8
	N. 126.9	34	e 19 37	[+26]	i 28 0	-99	57.5	69.7
Ottawa	127.7	30	i 21 10	?PR ₁	i 28 9	-96	e 59.4	67.4
Alicante	128.6	319	e 20 25	?	32 33	?	42.8	76.4
Ithaca	129.3	33	e 21 20	?PR ₁	e 28 17	-99	64.4	—
Toledo	129.9	322	e 19 18	[+ 0]	32 43	?	e 44.4	77.7
Almeria	130.6	319	19 27	[+ 7]	34 0	?	60.6	65.5
Granada	131.2	319	21 20	?PR ₁	i 26 41	?	59.8	84.9
Cheltenham	N. 131.4	37	—	—	e 28 32	?	61.1	68.4
Fordham	131.8	33	17 2	?	—	—	56.1	70.4
Malaga	132.0	319	e 18 59	[-24]	29 27	?	40.2	76.7
Harvard	E. 132.1	30	—	—	23 0	?PR ₁	57.4	72.4
Rio Tinto	132.8	322	21 25?	?PR ₁	—	—	—	26.4
San Fernando	133.3	320	—	—	23 0	?PR ₁	59.9	127.4
Lisbon	133.6	324	e 19 35	[+ 8]	40 35	?SR ₁	—	63.6
Halifax	133.6	21	e 21 43	?PR ₁	—	—	e 61.9	73.4
La Plata	139.3	158	i 19 34	[- 4]	—	—	59.4	—
Azores	142.2	340	83 49	?L	—	—	(83.8)	103.2
La Paz	E. 147.2	126	i 19 49	[- 2]	33 19	?	69.5	97.8
	N. 147.2	126	i 19 54	[+ 3]	33 27	?	—	95.1
Sucre	147.9	133	i 19 50	[- 3]	i 33 33	?	72.2	92.0
San Juan	E. 150.9	55	19 55	[- 2]	30 19	?PR ₁	72.1	73.9
	N. 150.9	55	20 1	[+ 4]	30 12	?PR ₁	73.7	76.9

Additional readings: Manila iPR₁ = +7m.15s., iPS = +10m.28s. = S + 31s.
 Batavia i = +8m.4s. and +16m.41s. Adelaide i = +9m.23s. Taihoku
 MN = +16.7m. Riverview iP = +6m.48s., PR₁ = +7m.21s., PR₂ =
 +7m.53s., PR₃ = +8m.6s., S = +11m.42s., MZ = +20.6m.; T₀ = 3h.44m.33s.
 Sydney PR₁ = +7m.55s., PS = +10m.55s. Hong Kong SR₁ = +11m.25s. Mel-
 bourne i = 3h.41m.42s. Hukuoka MN = +19.3m. Sumoto SR₁ =
 +11m.42s., MN = +18.6m. Kobe MN = +18.9m. Nagoya
 PR₁ = +8m.51s. Suva PR₁ = +9m.7s., PR₂ = +9m.37s., SR₁ =
 +16m.25s.; T₀ = 3h.44m.54s. Apia PR₁ = +11m.59s., SR₁ =
 +19m.59s., SR₂ = +22m.15s.; T₀ = 3h.45m.28s. Wellington, PR₁N =
 +11m.52s., PR₂E = +11m.57s., iE = +13m.57s., iN = +14m.0s. and
 +14m.47s., SR₁E = +19m.52s., SR₁N = +20m.2s.; T₀ = 3h.44m.31s.
 Irkutsk MZ = +32.5m., MN = +34.8m. Honolulu ePR₁E = +13m.7s.,
 eSN? = +19m.25s.; T₀ = 3h.44m.43s. and 3h.44m.48s. Ekaterinburg
 iPR₁ = +15m.29s., iPR₂ = +17m.55s., i = +22m.35s. = [S] - 27s., MZ =
 +53.4m. Sitka PR₁E = +16m.41s., ePSE = +25m.1s., ePPSE? =
 +26m.13s., SR₁E = +30m.39s., eSR₁N? = +32m.31s. Baku iPR₁ =
 +17m.6s. Piatigorsk PR₁ = +17m.29s., PR₂ = +19m.42s., PPS =
 +26m.15s., SR₁ = +31m.30s. Berkeley eE = +17m.49s., eN =
 +19m.7s. and +24m.25s., iE = +26m.41s. = PS - 8s. and +32m.19s. =
 SR₁ - 1s. Makeyevka PR₁ = +18m.0s., S₁P₁S = +24m.26s., PS =
 +26m.28s., SR₁ = +32m.0s., SR₂ = +36m.31s., MN = +80.9m., MZ =
 +88.3m. Lick eSE? = +20m.15s. = PR₁ - 36s., eSE = +24m.26s.,
 eN = +26m.55s. = PS + 0s., MN = +44.3m. Pulukovo iPR₁ = +18m.16s.,
 PR₂ = +20m.39s., iS₁P₁S = +24m.34s. = [S] + 3s., PS = +27m.13s., eN =
 +29m.37s., SR₁ = +33m.1s., MN = +49.4m., MZ = +53.8m. Spokane
 ePR₁ = +17m.57s., ePR₂E = +20m.41s., iE = +24m.33s. = [S] + 3s., eE =
 +25m.2s. Leningrad PR₁ = +18m.2s., PR₂ = +20m.39s., iS₁P₁S =
 +24m.36s., iPS = +27m.16s., iSR₁ = +32m.46s., SR₂ = +37m.4s., MN =
 +55.4m. Entebbe PR₁? = +19m.7s. = PR₁ + 25s. Helwan
 PR₁ = +18m.45s. Upsala ePR₁ = +18m.55s., eE = +25m.54s., eN =
 +26m.25s., ePS = +28m.18s., i = +29m.23s., eSR₁ = +34m.3s., eSR₂ =
 +38m.41s. Tucson PR₁ = +18m.54s., SP₁S = +25m.12s. = [S] + 9s.,
 PSE = +28m.21s., PSN = +28m.44s., PPSSE = +29m.31s., PPSN =
 +29m.45s., SR₁E = +34m.7s., SR₁N = +34m.21s., SR₁E? = +37m.40s.,
 LN = +44.5m., MN = +64.4m. Athens eLN = +45.8m., MN =
 +50.4m. Belgrade ePN = +19m.23s., eN = +19m.47s., +21m.28s.

Continued on next page.

and +22m.52s.=PR₁+16s., MN = +67.7m. Budapest MN = +70.6m.
 Denver PR₂ = +20m.1s., SR₁ = +32m.38s., SR₂ = +37m.33s. Vienna
 PZ = +18m.44s., PR₁ = +19m.53s., i = +21m.5s., PR₂ = +22m.16s., PS =
 +29m.31s., SR₁ = +35m.15s., SR₂ = +40m.4s. Hamburg ePNZ =
 +18m.45s.=[P]+11s., iPR₁ = +19m.45s., PR₂ = +22m.25s., ePSE =
 +29m.19s., SR₁ = +35m.43s., eSR₂Z = +41m.25s., MN = +55.8m., MZ =
 +64.2m. Graz iP = +22m.24s.=PR₂-31s., ePS = +30m.14s.,
 SR₁ = +36m.0s., MN = +56.0m. Zagreb e = +19m.57s.=PR₁+13s.,
 +20m.7s., +21m.6s., +25m.32s.=[S]+5s., +26m.46s., and +27.37s.
 Cheb i = +20m.6s.=PR₁+18s. and +29m.40s.=PS-8s., e = +35m.51s.=
 SR₁+11s. Hohenheim ePR₁ = +20m.3s., i = +22m.5s., ePR₂ =
 +22m.45s., eE = +30m.57s.=PS+44s., iSR₁E = +34m.9s., iSR₁N =
 +34m.57s., MN = +66.2m. Dyce PR₁ = +20m.8s. Ravensburg
 ePR₁E? = +19m.53s.?, ePR₂E = +22m.39s., ePSE? = +29m.41s., eE =
 +36m.3s.=SR₁-10s. De Bilt eZ = +19m.0s.=[P]+15s., iPR₂ =
 +20m.11s., MN = +57.4m., MZ = +69.2m. Strasbourg PR₁? =
 +20m.5s., MN = +68.4m. Rocca di Papa P = +20m.15s., eSE =
 +29m.47s. Zurich ePR₁ = +20m.13s., ePR₂ = +22m.56s. Florence
 iP = +18m.55s.=[P]+8s., PR₁ = +20m.55s. Uccle PR₁ = +20m.14s.
 Edinburgh i = +29m.57s., +31m.31s., and +37.37s. Moncalieri
 MN = +77.9m. Stonyhurst PR₁ = +20m.25s., PR₂ = +23m.6s., PR₃ =
 +24m.55s., PS = +30m.16s., SR₁ = +36m.36s., L = +61.1m. Kew
 PR₁ = +20m.30s., MN = +57.9m. Oxford PR₂ = +23m.35s.=PR₂-16s.
 Paris MN = +60.4m. St. Louis ePR₁N = +20m.44s., S₀P₀SN =
 +27m.34s., PSN = +30m.19s., SR₁N = +37m.5s., SR₂N = +41m.29s.
 Chicago PR₁N = +20m.45s., PR₁E = +20m.51s., iS₀P₀P₀SE = +27m.45s.,
 iS₀P₀P₀SN = +27m.51s., PS = +30m.48s., PPSN = +32m.11s., iPPSE =
 +32m.12s., iSR₁N = +37m.27s., iSR₁E = +37m.58s., SR₁N = +42m.5s.,
 iSR₁E = +42m.7s., SR₁E = +45m.15s., LN = +48.2m., MN = +60.6m.
 Barcelona PR₁ = +23m.53s.=PR₂-34s., SR₁ = +38m.1s., MN = +69.7m.
 Ann Arbor ePR₂ = +26m.13s.=PR₂-31s., iPS = +32m.25s., iSR₁ =
 +38m.7s., iSR₂ = +42m.49s., MN = +63.1m. Toronto iE =
 +21m.4s.=PR₁-5s., +22m.32s., and +26m.16s.=[S]+12s., eN = +21m.9s.
 =PR₁+0s., iN = +32m.46s. Ottawa MN = +72.4m. and several
 other i readings. Alicante i = +22m.30s., PE = +23m.50s. Itacha
 e = +31m.17s., i = +34m.13s., e = +38m.39s.=SR₁-2s. Toledo
 iE = +21m.37s.=PR₁+8s., i = +22m.48s., eLNW = +39.3m., e = +55m.55s.,
 MNW = +65.6m. Almeria i = +22m.39s., SR₁ = +39m.5s., MZ =
 +83.8m., MN = +98.2m. Granada PR₁ = +21m.58s., PR₂ = +24m.39s.,
 PR₃ = +27m.59s., PS = +32m.3s., PPS = +33m.28s., i = +36m.48s., SR₁ =
 +39m.36s., SPSP = +42m.54s., SR₂ = +47m.19s. Cheltenham ePR₁N =
 +22m.44s., PPSN = +33m.32s., SR₁N = +39m.1s., SR₂N = +43m.31s.
 Fordham PN? = +21m.32s.=PR₁-8s., PR₁ = +21m.50s.=PR₁+10s., PPS =
 +26m.34s.=[S]+0s., iPR₁ = +28m.28s., iPSN = +31m.55s., PR₂ =
 +33m.0s., SR₁N = +38m.57s., SR₂ = +44m.22s., SR₂E = +47m.20s. Har-
 vard PR₁E = +22m.0s., S₀P₀PE = +23m.0s., PR₂E = +24m.43s., S₀P₀SE =
 +26m.25s., S₀P₀P₀SE = +28m.35s., FSE = +31m.52s., SR₁E = +39m.31s.,
 SR₂E = +44m.37s., SR₂E = +47m.13s. San Fernando MN = +123.4m.
 Halifax i = +22m.47s., e = +28m.32s., +31m.39s., +39m.19s.=SR₁-17s.,
 and +44m.49s.=SR₁-39s. La Paz i = +20m.39s., PR₁ = +23m.27s.,
 PR₂ = +25m.57s., PR₃ = +30m.13s., SR₁ = +42m.13s., SR₂ = +43m.32s.,
 SR₃ = +48m.2s., MN = +35.1m.; T₀ = 3h.45m.8s. Sucre PR₁ = +23m.24s.,
 PR₂ = +25m.32s., PR₃ = +29m.13s., PS = +34m.42s., SR₁ = +42m.14s.,
 SR₂ = +44m.41s., SR₃ = +49m.26s., SR₄ = +55m.20s.; T₀ = 3h.44m.57s.
 San Juan PR₁N = +22m.23s., PR₁E = +24m.25s., PR₂N = +27m.15s.,
 ePSN = +36m.19s., SR₁N? = +42m.52s., SR₂E = +42m.57s., SR₁N =
 +43m.52s., SR₂E = +49m.1s., SR₂N? = +53m.37s.

Oct. 26d. 6h. 11m. 25s. Epicentre 2°7S. 138°8E. (as at 3h.)

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	5 33	-2	—	—	114.8	16.8
Batavia	32.0	265	1 6 37	-10	—	—	—	—
Adelaide	32.3	180	—	—	114 13	+120	117.4	19.8
Taihoku	E. 32.4	330	e 6 40	-12	(11 53)	-21	11.9	—
Riverview	33.2	161	1 5 50	-68	10 7	-140	e 13.9	20.4
Sydney	33.2	161	—	—	15 23	+176	18.1	19.1
Hong Kong	34.7	318	—	—	—	—	—	23.6
Melbourne	35.6	172	—	—	111 59	-65	i 19.0	19.4
Hukouka	E. 37.1	350	e 8 11	+40	—	—	—	—
Sumoto	37.2	356	7 20	-12	13 3	-24	18.2	—
Osaka	37.5	356	7 22	-12	13 19	-12	18.9	20.7

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.
Zi-ka-wei	37.7	338	e 7 20	-16	13 13	-21	—	22.4
Mizusawa	E. 41.9	3	8 2	-8	14 11	-23	20.2	—
	N. 41.9	3	8 3	-7	14 9	-25	20.3	—
Apia	50.1	105	9 6	-2	16 31	+11	23.8	27.9
Wellington	50.4	145	e 8 35?	-34	—	—	e 25.2	29.6
Christchurch	50.7	149	—	—	—	—	55.9	58.4
Irkutsk	62.2	338	10 30	+ 4	e 18 54	+ 3	35.5	—
Honolulu	E. 66.2	66	—	—	e 19 35	- 5	e 30.9	38.0
	N. 66.2	66	—	—	20 5	?PS	e 26.6	39.4
Ekaterinburg	85.8	327	i 12 47	- 5	i 23 17	-11	38.6	49.5
Kucino	E. 98.3	326	—	—	—	—	—	61.2
Spokane	E. 101.2	41	—	—	—	—	—	53.6
Leningrad	101.5	331	—	—	—	—	51.1	63.2
Pulkovo	101.5	331	—	—	—	—	46.6	63.2
Tucson	E. 108.6	56	—	—	—	—	e 50.8	56.6
Denver	E. 111.7	47	—	—	—	—	56.6	62.6
Vienna	113.0	322	e 19 39	?PR ₁	—	—	—	71.1
Hamburg	114.1	330	e 18 35?	[+ 1]	—	—	e 54.6	69.6
De Bilt	K. 117.4	330	—	—	—	—	—	73.7
Edinburgh	118.7	336	—	—	e 36 35?	?SR ₁	59.6	74.6
Kew	120.5	332	—	—	—	—	55.6	75.6
Oxford	120.7	333	—	—	—	—	68.6	76.6
St. Louis	N. 122.8	44	—	—	—	—	—	68.6
Chicago	E. 123.0	40	—	—	—	—	—	63.1
Granada	131.2	319	—	—	—	—	e 67.6	81.7
La Plata	139.3	158	e 19 35?	[- 3]	—	—	—	69.6
La Paz	147.2	126	18 37	[-74]	33 0	?	71.2	76.5
Sucre	147.9	133	18 59	[-54]	32 51	?	72.8	91.4

Additional readings: Batavia i = +8m.0s. Riverview S = +10m.33s.,
 MN = +18.7m., MZ = +20.7m. Melbourne i = +15m.41s. = SR₂ - 7s.
 Wellington e = +22m.35s. ? = SR₁ + 19s. Irkutsk MZ = +36.4m. Hono-
 lulu iSE = +19m.42s., eE = +21m.15s. Ekaterinburg MN = +51.8m.,
 MZ = +52.8m. Kucino MN = +61.6m. Leningrad MN = +62.9m.,
 MZ = +63.1m. Pulkovo MN = +59.9m., MZ = +63.3m. Tucson
 ePR₁E = +18m.59s. De Bilt MN = +67.0m., MZ = +73.5m. Kew
 MN = +73.6m. Chicago MN = +63.8m. La Paz MN = +79.3m.

Oct. 26d. 8h. 35m. 3s. Epicentre 2°7'S. 138°-8'E. (as at 6h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	e 5 41	+ 6	—	—	i 15.0	16.6
Batavia	32.0	265	e 6 33	-14	—	—	—	—
Adelaide	32.3	180	e 8 39?	+108	e 14 13	+120	16.4	19.4
Taihoku	E. 32.4	330	—	—	—	—	e 14.3	—
Riverview	33.2	161	e 7 12	+14	12 2	-25	—	17.6
Sydney	33.2	161	11 45	?S	(11 45)	-42	17.0	18.4
Hong Kong	34.7	318	—	—	—	—	—	25.4
Melbourne	35.6	172	e 8 3	+45	i 12 39	-24	i 19.0	23.2
Perth	36.4	215	13 57	?S	(13 57)	+41	19.5	—
Osaka	37.5	356	7 14	-20	12 35	-56	18.3	19.8
Zi-ka-wei	37.7	338	e 7 20	-16	e 13 9	-25	—	—
Apia	50.1	105	—	—	e 16 57?	+37	26.0	—
Wellington	50.4	145	—	—	e 18 57	?	e 28.0	29.8
Irkutsk	62.2	338	e 10 28	+ 2	i 18 57	+ 6	30.0	37.6
Honolulu	E. 66.2	66	—	—	e 18 57?	-43	e 32.0	—
Ekaterinburg	85.8	327	12 47	- 5	i 23 14	-14	36.0	48.2
Victoria	E. 97.2	41	—	—	—	—	45.8	52.0
Kucino	98.3	326	—	—	e 26 36	?PS	47.1	61.7
Makeyevka	99.2	319	—	—	e 24 40	[+20]	e 32.7	61.8
Pulkovo	101.5	331	—	—	—	—	49.0	63.2
Leningrad	101.5	331	—	—	—	—	47.2	63.0
Upsala	N. 107.5	334	—	—	—	—	e 56.0	—
Hamburg	114.1	330	—	—	—	—	e 59.0	71.0
Cheb	114.6	325	—	—	—	—	e 61.0	71.0
De Bilt	117.4	330	—	—	—	—	e 53.0	73.8
Strasbourg	118.0	325	—	—	—	—	—	61.0
Uccle	118.6	330	—	—	—	—	—	55.0
Edinburgh	118.7	336	—	—	—	—	e 69.0	75.0
Moncalleri	119.8	322	—	—	—	—	67.2	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Kew	120.5	332	—	—	—	—	e 65.0	—
Oxford	120.7	333	—	—	—	—	—	74.4
Chicago	E. 123.0	40	—	—	—	—	—	63.6
Toronto	E. 126.9	34	—	—	—	—	66.0	—
Toledo	129.9	322	—	—	—	—	e 69.9	85.5
La Plata	139.3	158	—	—	—	—	72.0	—
La Paz	147.2	126	19 55	[+ 4]	—	—	77.3	85.4
Sucre	147.9	133	19 50	[- 3]	—	—	77.9	92.2

Additional readings : Batavia $i = +7m.59s. = PR_1 + 15s.$ Riverview MNZ = +20.6m. Sydney S = +15m.33s. = SR₁ + 33s. Perth P? = +15m.2s. = SR₁ - 26s., S = +17m.22s. = L? Irkutsk MZ = +35.9m. Honolulu eSN = +19m.39s. = S - 1s. Ekaterinburg MN = +43.3m., MZ = +53.4m. Kucino e = +32m.30s. = SR₁ + 14s., MN = +57.2m. Makeyevka MZ = +61.5m., MN = +64.4m. : Is L = SR₁? Pulkovo MN = +59.9m., MZ = +63.4m. Leningrad MZ = +63.9m. De Bilt MN = +70.3m., MZ = +80.0m. Toronto LN = +65.2m.

Oct. 26d. 14h. 15m. 45s. Epicentre 2°7'S. 138°8'E. (as at 8h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Agana	E. 17.2	20	—	—	e 6 45	-37	—	—
Manila	24.7	315	i 5 45	+10	—	—	i 15.0	16.0
Batavia	32.0	265	i 7 4	+17	i 12 43	+35	—	—
Adelaide	32.3	180	—	—	e 12 35	+22	16.4	18.3
Taihoku	E. 32.4	330	e 6 42	-10	(12 5)	-9	12.1	—
Riverview	33.2	161	e 6 45	-13	e 12 3	-24	e 15.8	18.2
Sydney	33.2	161	11 15	?S	(11 15)	-72	17.8	18.6
Hong Kong	34.7	318	7 5	-6	12 42	-9	16.2?	—
Melbourne	35.6	172	—	—	i 12 15	-49	i 18.8	19.8
Perth	36.4	215	(7 1)	-24	(13 10)	-6	(17.5)	(23.2)
Sumoto	37.2	356	7 24	-8	(13 29)	+2	18.7	—
Osaka	37.5	356	7 26	-8	(13 27)	-4	13.4	20.0
Zi-ka-wei	37.7	338	i 7 29	-7	13 14	-20	—	21.9
Apia	50.1	105	16 9	?S	(16 9)	-11	26.2	—
Wellington	50.4	145	i 16 5	?S	(16 5)	-19	—	29.8
Irkutsk	62.2	338	i 10 36	+10	19 6	+15	30.2	36.1
Honolulu	E. 66.2	66	i 11 0	+7	e 19 15?	-25	30.2	38.2
Tashkent	76.6	315	—	—	—	—	38.2	47.6
Ekaterinburg	85.8	327	i 12 52	0	i 23 25	-3	35.2	46.3
Baku	91.0	311	—	—	e 24 24	0	42.2	58.1
Victoria	E. 97.2	41	25 23	?S	(25 23)	-5	45.9	56.4
Kucino	98.3	326	e 17 8	?PR ₁	e 25 14	-25	47.8	60.9
Makeyevka	99.2	319	e 13 53	-13	—	—	50.2	63.9
Pulkovo	101.5	331	14 11	-7	25 43	-27	49.2	61.2
Leningrad	101.5	331	e 14 8	-10	i 18 21	?PR ₁	49.2	63.5
Upsala	107.5	334	—	—	e 28 15?	?PS	e 54.2	—
Budapest	111.7	321	—	—	—	—	e 52.8	—
Cape Town	113.1	230	—	—	—	—	—	66.6
Hamburg	114.1	330	—	—	—	—	e 58.2	—
Cheb	114.6	325	—	—	—	—	e 65.2	72.2
De Bilt	117.4	330	—	—	—	—	e 54.2	60.7
Strasbourg	118.0	325	—	—	—	—	60.2	73.2
Florence	118.2	318	e 20 15?	?PR ₁	—	—	—	49.2
Uccle	118.6	330	—	—	e 36 15?	?SR ₁	e 54.2	—
Edinburgh	118.7	336	—	—	—	—	e 60.2	—
Stonyhurst	119.8	334	—	—	—	—	e 62.2	74.6
Moncalleri	119.8	322	—	—	e 53 31	?	68.1	—
Kew	120.5	332	—	—	—	—	e 57.2	76.2
Oxford	120.7	333	—	—	—	—	61.8	75.2
Paris	120.7	328	—	—	—	—	e 66.2	73.2
Chicago	E. 123.0	40	—	—	—	—	—	62.0
Ann Arbor	125.2	36	—	—	—	—	e 55.4	—
Tortosa	N. 126.5	321	—	—	—	—	e 74.2	—
Toronto	N. 126.9	34	22 30	?PR ₁	—	—	64.4	69.8
Ottawa	N. 127.7	30	—	—	e 22 33	?PR ₁	65.2	72.2
Ithaca	129.3	33	—	—	—	—	69.2	—
Toledo	129.9	322	—	—	—	—	e 72.0	82.8
Granada	131.2	319	e 39 15?	?SR ₁	—	—	—	—
La Plata	139.3	158	—	—	—	—	69.2	—
La Paz	147.2	126	i 20 1	[+10]	e 33 54	?	72.4	80.8
Sucre	147.9	133	i 20 1	[+ 8]	e 33 45	?	77.0	96.2

For Notes see next page.

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NOTES TO OCT. 26d. 14h. 15m. 45s.

Additional readings and notes : Batavia readings are given as simply i. River-
view MN = +20.7m., MZ = +20.8m. Sydney S = +15m.39s. = SR₁ + 39s.
Perth i = +9m.0s. = PR₁ - 2s., +12m.50s., +13m.15s. = PS - 2s., +16m.55s.
= SR₂ + 34s., and +17m.10s., all readings having been diminished by 14m.
Sumoto S = +9m.45s. = PR₁ + 25s., true S being recorded as SR₁. Zi-ka-wei
PR₁ = +9m.1s., PR₂ = +11m.33s., SR₁ = +14m.31s., SR₂ = +17m.21s.
Apia S = +21m.49s. = SR₁ + 16s. Wellington iS = +19m.37s. = SR₁ - 37s.,
MN = +23.2m. Irkutsk MZ = +36.2m. Tashkent MN = +45.1m.
Ekaterinburg iPR₁ = +16m.8s., iPR₂ = +18m.13s., e = +23m.6s. = [S] + 4s.,
SR₁ = +29m.8s., MZ = +53.3m. Baku MN = +47.1m. Kucino e =
+32m.3s. = SR₁ - 13s., MN = +61.2m. Makeyevka e = +17m.59s. =
[P] + 16s., +19m.50s., and +32m.32s. = SR₁ + 4s., MN = +55.4m., MZ =
+69.6m. Pulkovo PR₁ = +18m.15s., iS₁P₁P₁S = +25m.9s., PS =
+27m.14s., SR₁ = +32m.57s., SR₂ = +37m.39s., MN = +60.4m., MZ =
+63.5m. Leningrad MN = +63.0m. De Bilt MN = +70.6m., MZ =
+78.7m. Paris MN = +78.2m. Chicago MN = +66.0m. Ann Arbor
eE? = +62m.15s. Ottawa ME = +69.2m. Sucre PR₁ = +24m.28s.,
SR₄ = +43m.34s. = SR₁ + 67s.

Oct. 26d. 23h. 43m. 20s. Epicentre 2° 7'S. 138° 8'E. (as at 14h.).

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	32.3	180	—	—	e 11 38	-35	e 16.5	20.5
Taihoku	E. 32.4	330	—	—	—	—	e 13.0	—
Riverview	33.2	161	e 16 51	?L	e 20 20	?	e 21.9	24.8
Sydney	33.2	161	12 10	?S	(12 10)	-17	20.4	22.8
Melbourne	35.6	172	—	—	e 13 22	+18	i 19.4	23.4
Perth	36.4	215	12 40	?S	(12 40)	-36	20.2	21.2
Zi-ka-wei	37.7	338	e 7 6	-30	—	—	—	21.2
Wellington	50.4	145	—	—	—	—	e 27.7	—
Irkutsk	62.2	338	10 26	0	18 55	+4	e 29.7	—
Tashkent	76.6	315	12 35	+36	21 42	-2	e 37.7	47.2
Ekaterinburg	85.8	327	12 51	-1	23 25	-3	38.7	53.0
Baku	91.0	311	—	—	—	—	46.7	—
Victoria	E. 97.2	41	—	—	—	—	47.3	57.0
Kucino	98.3	326	—	—	e 26 43	+64	47.6	61.1
Makeyevka	99.2	319	—	—	e 32 40?	?SR ₁	50.7	61.6
Pulkovo	101.5	331	e 23 46	?	—	—	47.7	61.9
Leningrad	101.5	331	—	—	—	—	50.8	62.2
Cheb	114.6	325	—	—	—	—	e 61.7	70.7
De Bilt	117.4	330	—	—	—	—	e 56.7	—
Uccle	118.6	330	—	—	—	—	e 56.7	—
Kew	120.5	332	—	—	—	—	e 61.7	—
Oxford	120.7	333	—	—	—	—	—	73.7
Chicago	E. 123.0	40	—	—	—	—	—	68.2
Toronto	E. 126.9	34	—	—	—	—	69.7	—
Ottawa	127.7	30	—	—	—	—	e 63.7	—
San Fernando	E. 133.3	320	—	—	—	—	—	88.2
La Paz	147.2	126	20 4	[+13]	—	—	—	—
Sucre	147.9	133	19 51	[-2]	—	—	80.4	92.8

Additional readings : Adelaide e = +13m.0s. Riverview eP = +17m.43s.,
eS = +20m.26s., MN = +22.7m.; the readings are all in excess by about
8 min., but it is easy to correct them. Sydney S = +17m.34s. (?L). Mel-
bourne i = +21m.58s. Perth S₁ = +17m.40s., ? = +19m.40s. and
+19m.55s. Tashkent e = +16m.22s. and +26m.40s., MN = +45.2m.
Ekaterinburg MN = +46.8m., MZ = +52.9m. Kucino e = +31m.44s. =
SR₁ - 32s., MN = +57.8m. Makeyevka MN = +59.4m., MZ = +61.5m.
Pulkovo e = +27m.53s. = PS + 32s. and +32m.43s. = SR₁ - 13s., MZ =
+61.7m., MN = +62.6m. Leningrad MZ = +61.8m., MN = +62.6m.
Toronto eN = +58m.43s., LN = +65.3m. San Fernando MN = +87.7m.

Oct. 26d. Readings also at 0h. (near Mizusawa), 5h. (Taihoku, Hamburg,
Granada, Denver, Spokane, and St. Louis), 6h. (Melbourne, Adelaide,
Riverview, Sydney, near La Paz, Sucre, near Tacubaya, and Puebla),
7h. (La Paz), 8h. (Cape Town), 11h. (Irkutsk, Strasbourg, and near
Mostar), 12h. (Nagasaki), 13h. (Nagasaki), 14h. (Agana), 16h. (Apia,
Ekaterinburg, Pulkovo, and Leningrad), 17h. (Ekaterinburg, Pulkovo,
and Leningrad), 18h. (Ekaterinburg (2)), 19h. (Moncalieri).

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Oct. 27d. 4h. 58m. 35s. Epicentre 2°7S. 138°8E. (as on 26d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	e 5 34	- 1	—	—	i 13.4	14.8
Batavia	32.0	265	17 56	+69	—	—	—	—
Adelaide	32.3	180	e 7 31	?PR ₁	e 13 55	?SR ₁	i 18.5	20.4
Taihoku	32.4	330	—	—	e 12 1	-13	—	—
Riverview	33.2	161	e 6 43	-15	e 12 13	-14	e 17.2	20.0
Sydney	33.2	161	—	—	e 11 55	-32	17.4	18.7
Hong Kong	34.7	318	6 56	-15	—	—	—	24.4
Melbourne	35.6	172	—	—	e 13 1	- 3	i 19.8	20.7
Perth	36.4	215	9 0	?PR ₁	13 10	- 6	20.1	24.4
Zi-ka-wei	37.7	338	i 7 21	-15	—	—	—	21.9
Wellington	50.4	145	—	—	—	—	e 22.4	—
Irkutsk	62.2	338	10 28	+ 2	18 56	+ 5	30.4	37.7
Honolulu	66.2	66	—	—	19 25?	-15	32.4	39.4
Bombay	68.3	292	e 11 25?	+19	—	—	—	—
Tashkent	76.6	315	i 11 58	- 1	i 21 47	+ 3	e 38.4	45.0
Ekaterinburg	85.8	327	i 12 46	- 9	i 23 19	- 9	36.4	53.8
Baku	91.0	311	e 13 21	0	24 14	-10	46.4	53.3
Victoria	97.2	41	23 45	?[S]	(23 45)	[-24]	47.5	58.9
Kucino	98.3	326	e 20 18	PR ₁	—	—	47.4	61.7
Makeyevka	99.2	319	e 18 25?	?PR ₁	—	—	49.4	61.6
Pulkovo	101.5	331	13 55	-23	25 23	-47	49.4	61.2
Leningrad	101.5	331	e 13 57	-21	e 25 25	-45	51.8	65.0
Uppsala	107.5	334	—	—	—	—	e 60.4	—
Tucson	108.6	56	—	—	e 25 13	[+ 9]	—	—
Hamburg	114.1	330	—	—	—	—	e 63.4	—
Cheb	114.6	325	—	—	—	—	e 59.4	72.4
De Bilt	117.4	330	—	—	—	—	e 56.4	67.2
Strasbourg	118.0	325	—	—	—	—	64.4	73.4
Uccle	118.6	330	—	—	e 36 25?	?SR ₁	e 56.4	—
Edinburgh	118.7	336	—	—	—	—	e 71.4	—
Kew	120.5	332	—	—	—	—	e 56.4	—
Oxford	120.7	333	—	—	—	—	e 61.4	75.4
Chicago	123.0	40	—	—	—	—	e 66.5	69.8
Tortosa	126.5	321	—	—	—	—	e 71.4	78.5
Toronto	126.9	34	—	—	—	—	65.4	69.4
Ottawa	127.7	30	—	—	e 38 25?	?SR ₁	e 65.4	—
San Fernando	133.3	320	—	—	—	—	—	86.4
La Paz	147.2	126	19 55	[+ 4]	—	—	81.6	95.5
Sucre	147.9	133	i 19 51	[- 2]	—	—	87.2	97.4

Additional readings: Adelaide MN = +21.4m. Riverview MN = +20.8m.,
 MZ = +21.9m. Perth = +17m.5s., +17m.20s., +18m.20s., and +19m.45s.
 Irkutsk MZ = +37.6m. Tashkent PS = +22m.29s., MN = +40.7m.
 Ekaterinburg i = +14m.0s., +15m.52s., and +17m.30s., MN = +46.8m.
 Baku ePR₁ = +17m.6s., MN = +62.2m., MZ = +63.6m. Kucino e =
 +26m.33s. = PS = 11s., +31m.27s., and +32m.23s. = SR₁ +7s., MN =
 +53.0m. Makeyevka MN = +59.4m., MZ = +66.2m. Pulkovo PR₁ =
 +18m.10s., PPS = +27m.14s., SR₁ = +32m.55s., SR₂ = +36m.1s., MN =
 +61.6m. Leningrad PR₁ +18m.11s., MN = +64.2m., MZ = +64.4m.
 Tucson eN = +26m.5s. De Bilt MZ = +73.3m., MN = +76.7m. San
 Fernando MN = +85.4m.

Oct. 27d. 9h. 21m. 40s. Epicentre 2°7S. 138°8E. (as at 4h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	32.3	180	—	—	e 13 55?	+52	17.9	20.4
Riverview	33.2	161	—	—	—	—	e 17.6	21.0
Melbourne	35.6	172	—	—	e 12 44	-20	—	21.3
Zi-ka-wei	37.7	338	e 7 22	-14	—	—	—	31.8
Irkutsk	62.2	338	e 10 25	- 1	18 53	+ 2	e 30.3	—
Tashkent	76.6	315	12 29	+30	21 40	- 4	e 37.3	45.4
Ekaterinburg	85.8	327	12 50	- 2	23 14	-14	39.3	53.7
Kucino	98.3	326	e 17 38	?PR ₁	—	—	—	—
Pulkovo	101.5	331	—	—	e 27 4	?PS	59.3	63.4
Leningrad	101.5	331	—	—	—	—	57.3	63.7
Ravensburg	117.3	325	18 20	[-25]	—	—	—	—
De Bilt	117.4	330	—	—	—	—	e 56.3	—
Uccle	118.6	330	—	—	—	—	—	71.3
La Paz	147.2	126	20 12	[+21]	—	—	—	—
Sucre	147.9	133	19 46	[- 7]	—	—	—	—

Additional readings: Adelaide MN = +20.5m. Riverview +18m.20s.
 Tashkent e = +26m.33s. and +30m.47s. = SR₁ +7s., MN = +40.5m.

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Oct. 27d. 11h. 50m. 12s. Epicentre 58°·5S. 145°·5E. (as on 1925 April 26d.).

A = -·431, B = +·296, C = -·853; D = +·566, E = +·824;
G = +·703, H = -·483, K = -·522.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	20·7	359	e 4 48	- 1	—	—	e 11·4	12·5
Adelaide	24·0	346	—	—	—	—	e 13·1	14·7
Riverview	25·0	11	—	—	e 11 6	+63	—	17·2
Wellington	25·2	60	i 5 42	+ 2	e 10 12	+ 5	e 13·5	—
Tashkent	118·0	304	—	—	e 38 0	?SR ₁	e 59·8	67·2
Baku	126·2	290	—	—	—	—	69·8	—
Ekaterinburg	133·5	311	—	—	—	—	59·8	—
San Fernando	E. 151·2	232	—	—	—	—	—	93·3
De Bilt	156·9	271	—	—	—	—	e 94·8	—

Additional readings: Riverview MN = +15·2m. Tashkent MN = +67·8m.
San Fernando MN = +89·8m.

Oct. 27d. 14h. 14m. 0s. Epicentre 23°·0S. 66°·0W. (as on 1926 Jan. 8d.).

A = +·374, B = -·841, C = -·391; D = -·914, E = -·407;
G = -·159, H = +·357, K = -·921.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	4·1	10	i 1 7	+ 3	i 1 57	+ 4	2·0	2·0
La Paz	6·8	343	i 1 39	- 5	i 3 7	+ 2	3·8	5·7
La Plata	13·8	151	3 9	-14	5 21	-42	6·2	—
Ekaterinburg	129·0	34	i 21 44	?PR ₁	—	—	e 58·0	—
Tashkent	138·5	51	e 12 0?	?	—	—	e 51·0	—

Tashkent gives also e = +22m.0s. ? = PR₁ - 25s., i = +23m.14s., e = +28m.22s. = PR₂ - 19s.

Oct. 27d. 19h. 57m. 16s. Epicentre 2°·7S. 138°·8E (as at 9h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24·7	315	e 4 39	-56	—	—	—	—
Adelaide	32·3	180	e 13 54	?SR ₁	e 18 20	—	e 19·7	20·1
Riverview	33·2	161	—	—	e 18 2	?L	(e 18·0)	22·9
Melbourne	35·6	172	—	—	e 13 50	+46	e 18·5	25·6
Irkutsk	62·2	338	10 27	+ 1	e 18 52	+ 1	31·7	—
Tashkent	76·6	315	i 11 57	- 2	i 21 46	+ 2	e 36·7	45·1
Ekaterinburg	85·8	327	i 12 43	- 9	23 18	-10	37·7	—
Kucino	98·3	326	—	—	—	—	e 51·1	—
Pulkovo	101·5	331	—	—	e 21 9	?	53·7	63·2
Leningrad	101·5	331	—	—	—	—	54·6	63·1
Athens	111·2	310	—	—	—	—	e 47·8	48·1
La Paz	147·2	126	19 37	[-14]	—	—	—	—

Additional readings: Adelaide MN = +20·4m. None of the observations (at 4h., 9h., and 19h.) are readily identifiable. Riverview e = +14m.26s., MN = +20·6m. Tashkent e = +30m.44s. = SR₂ + 4s., MN = +44·8m., MZ = +44·9m.

Oct. 27d. Readings also at 0h. (Irkutsk and Manila), 1h. (Nagasaki, Riverview(2), Melbourne, Perth, La Paz (2), Sucre (2), Kucino, Ekaterinburg, Pulkovo, Leningrad, Tashkent, and De Bilt), 3h. (Nagasaki), 4h. (Riverview (2), Nagasaki, Zi-ka-wei, Tashkent (2), and Sucre), 7h. (Nagasaki and Ekaterinburg), 8h. (Nagasaki), 11h. (Ekaterinburg and Taihoku), 12h. (Wellington, Riverview, and Adelaide), 15h. (near Almeria (2) and Malaga), 17h. (near Almeria and Malaga).

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Oct. 28d. 1h. 0m. 35s. Epicentre 2°-7S. 138°-8E. (as on Oct. 27d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	e 5 36	+ 1			15.4	—
Adelaide	32.3	180	—		14 11	?SR ₁	17.1?	20.4
Riverview	33.2	161	—		e 11 55	-32	e 17.2	18.7
Sydney	33.2	161	11 37	?S	(11 37)	-50	17.7	18.7
Hong Kong	34.7	318	—				—	26.4
Melbourne	35.6	172	—		e 12 13	-51	1 19.8	20.5
Zi-ka-wei	37.7	338	e 2 18	?			—	21.2
Irkutsk	62.2	338	10 26		0 1 18 51	0	30.4	37.4
Tashkent	76.6	315	1 12 3	+ 4	e 21 25	-19	e 36.4	48.8
Ekaterinburg	85.8	327	1 12 49	- 3	1 23 14	-14	37.4	52.6
Baku	91.0	311	e 13 28	+ 7	e 24 13	-11	46.4	57.8
Victoria	E. 97.2	41	—	—	—	—	46.7	58.8
Kucino	98.3	326	—	—	e 25 6	-33	45.4	59.8
Makeyevka	99.2	319	—	—	—	—	53.4	67.0
Pulkovo	101.5	331	e 13 47	-31	25 37	-33	48.4	61.2
Leningrad	101.5	331	e 18 12	?PR ₁	—	—	47.2	63.3
Cheb	114.6	325	—	—	—	—	e 58.4	72.4
De Bilt	117.4	330	—	—	—	—	e 57.4	—
Uccle	118.6	330	—	—	—	—	e 55.4	—
Edinburgh	118.7	336	—	—	—	—	e 57.4	—
Kew	120.5	332	—	—	—	—	59.4	—
Chicago	N. 123.0	40	—	—	—	—	e 66.1	69.7
Toronto	E. 126.9	34	—	—	—	—	71.4	—
Ottawa	127.7	30	—	—	e 43 25?	?SR ₁	e 61.4	—
San Fernando	E. 133.3	320	—	—	—	—	—	86.4
La Paz	147.2	126	19 37	[-14]	—	—	—	—
Sucre	147.9	133	(19 50)	[-3]	—	—	86.2	98.7

Additional readings and notes: Riverview eS = +14m.43s. = SR₁ + 25s., MNZ = +20.8m.; true S is given as e simply. Tashkent MN = +40.0m., MZ = +41.4m. Ekaterinburg MN = +46.5m., MZ = +52.5m. Baku ePR₁ = +16m.56s., MZ = +66.8m. Kucino e = +32m.9s. = SR₁ - 7s., +35m.7s., and +37m.29s. = SR₁ + 28s., MN = +52.9m. Makeyevka e = +45m.25s.?, MZ = +67.2m. Pulkovo e = +18m.13s., SR₁ = +32m.31s., MN = +57.6m., MZ = +63.0m. Leningrad MN = +64.3m., MZ = +64.4m. Edinburgh reading has been increased by 1h. San Fernando MN = +85.4m. Sucre P has been diminished by 10m.

Oct. 28d. 12h. 58m. 30s. Epicentre 28°-0S. 69°-0W.

A = +.316, B = -.824, C = -.469; D = -.934, E = -.358;
G = -.168, H = +.438, K = -.883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	9.6	22	12 23	- 1	1 4 7	-11	4.9	5.9
La Paz	11.5	4	12 48	- 4	5 11	+ 4	5.8	6.6
La Plata	11.7	129	12 55	0	1 5 11	- 1	6.0	—

La Paz gives also MN = +8.0m. T₀ = 12h.58m.15s.

Oct. 28d. Readings also at 0h. (Ekaterinburg, Tashkent, and Hong Kong), 1h. (Tashkent and Irkursk), 3h. (Ekaterinburg and Leningrad), 4h. (Nagasaki), 5h. (Ravensburg), 8h. (near Almeria and Malaga), 10h. (near Mizusawa and Nagoya), 12h. (Florence), 13h. (Tashkent), 21h. (Ekaterinburg, Manila, and Tashkent), 22h. (near Hukuoka), 23h. (Manila).

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Oct. 29d. 0h. 2m. 32s. Epicentre 2°·7S. 138°·8E. (as on Oct. 28d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	32·0	265	e 7 4	+17	i 12 48	+40	—	—
Adelaide	32·3	180	—	—	—	—	19·0	19·9
Riverview	33·2	161	(e 6 52)	- 6	(e 12 45)	+18	(e 15·0)	(15·9)
Sydney	33·2	161	12 10	?S	(12 10)	-17	20·5	21·8
Melbourne	35·6	172	e 5 46	-92	—	—	i 20·8	24·1
Irkutsk	62·2	338	10 24	- 2	—	—	—	—
Tashkent	76·6	315	11 1	-58	i 21 41	- 3	e 31·5	35·6
Ekaterinburg	85·8	327	i 12 45	- 7	e 23 2	[0]	—	—
La Paz	147·2	126	e 20 22	[+31]	—	—	—	—
Sucre	147·9	133	20 3	[+10]	—	—	—	—

Additional readings and note: Adelaide MN = +22·9m. Riverview
 MN = (+16·4m.); all readings have been diminished by 7m. Tashkent
 MN = +36·3m.

Oct. 29d. 0h. 8m. 40s. Epicentre 16°·3N. 120°·6E. (given by De Bilt).

A = -·489, B = +·826, C = +·281; D = +·861, E = +·509;
 G = -·143, H = +·242, K = -·960.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	1·8	168	(e 0 14)	-14	(i 0 48)	- 3	(i 0·8)	—
Hong Kong	8·5	316	2 24	+15	3 50	0	4·4	4·8
Taihoku	E. 8·8	6	2 14	+ 1	3 45	-13	4·6	—
Sumoto	22·1	33	5 4	- 2	(9 12)	+ 5	9·2	—
Osaka	22·7	33	5 7	- 6	9 16	- 3	—	11·8
Nagoya	23·8	35	e 5 12	-14	—	—	—	—
Irkutsk	38·0	345	e 7 30	- 8	—	—	20·3	—
Tashkent	50·5	312	16 47	?	i 16 27	+ 2	e 20·3	29·5
Ekaterinburg	60·1	327	i 10 17	+ 4	i 18 33	+ 9	24·3	33·7
Baku	65·0	310	—	—	—	—	30·3	35·8
Kucino	72·5	325	—	—	i 20 59	+ 3	35·6	43·3
Makeyevka	73·1	317	e 12 3	+26	e 21 6	+ 3	35·3	43·1
Leningrad	76·0	330	i 11 56	+ 1	21 39	+ 2	34·4	45·3
Pulkovo	76·1	330	i 11 56	0	21 39	+ 1	37·3	46·7
Upsala	N. 82·3	331	—	—	—	—	e 43·3	—
Hamburg	88·6	326	—	—	—	—	e 44·3	47·3
Cheb	88·7	323	—	—	—	—	e 44·3	49·3
De Bilt	91·8	326	—	—	—	—	e 44·3	50·3
Strasbourg	92·1	324	—	—	—	—	—	51·3
Uccle	92·9	325	—	—	—	—	e 46·3	51·3
Victoria	94·3	37	—	—	—	—	—	40·3
Stonyhurst	94·6	330	—	—	—	—	e 50·3	—
Paris	94·9	324	—	—	—	—	e 50·3	52·3
Kew	95·0	329	—	—	—	—	e 48·3	—
Oxford	95·3	329	—	—	—	—	—	59·3
Bidston	95·3	330	—	—	—	—	50·6	54·0
Tortosa	N. 100·4	319	—	—	—	—	e 53·3	55·4
Granada	105·1	318	—	—	—	—	e 67·3	—
San Fernando	E. 107·2	318	—	—	—	—	—	62·3
Ottawa	116·2	12	—	—	—	—	e 53·3	—
Toronto	117·3	16	—	—	—	—	62·3	—

Additional readings and notes: Manila readings have been increased by 1m.
 Sumoto S = +7m.6s. Osaka MN = +11·6m. Irkutsk e =
 +9m.2s. = PR₁ +4s. Tashkent i = +15m.19s., MN = +30·2m.: Is
 L = SR₁ ? Ekaterinburg MN = +34·8m., MZ = +35·3m. Baku
 MN = +36·2m. Kucino MN = +40·2m. Makeyevka MN =
 +39·9m., MZ = +49·0m. Leningrad MN = +46·1m., MZ = +46·2m.
 Pulkovo SR₁ = +27m.50s., SR₂ = +30m.50s., MN = +42·4m., MZ = +46·2m.
 De Bilt MN = +50·2m., MZ = +59·3m. San Fernando MN = +70·3m.

Oct. 29d. Readings also at 0h. and 3h. (near Manila), 4h. (Nagasaki), 7h. (La Paz, Sucre, and near Manila), 9h. (Tacubaya), 11h. (Nagasaki and near Taihoku), 12h. (Nagasaki and Tashkent), 13h. (Nagasaki), 15h. (Tashkent), 16h. (Manila), 18h. (near La Paz, Sucre, near Almeria, and Malaga), 19h. (Tashkent and Mizusawa), 20h. (Baku, Ekaterinburg, Irkutsk, and Tashkent), 21h. (Sucre).

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Oct. 30d. 1h. 37m. 58s. Epicentre 11°·5N. 43°·5E.

A = +·711, B = +·675, C = +·199 D = +·688, E = -·725 ;
G = +·145, H = +·137, K = -·980.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	29·5	10	e 7 2	{PR ₁	e 11 23	- 3	e 19·5	25·9
Makeyevka	36·9	355	e 7 24	- 5	13 14	- 8	21·0	23·7
Tashkent	37·4	32	7 35	+ 2	i 13 31	+ 1	19·5	25·9
Florence	42·6	325	—	—	—	—	e 24·8	28·0
Kucino	44·5	356	e 8 24	- 6	15 0	- 9	20·9	25·0
Ekaterinburg	47·3	12	18 50	+ 1	15 45	0	24·0	31·7
Strasbourg	47·5	329	—	—	—	—	e 24·0	—
Tortosa	47·8	316	—	—	—	—	e 25·0	27·3
Granada	49·3	310	—	—	—	—	e 28·2	34·1
Pulkovo	49·3	352	i 9 1	- 1	16 9	- 1	26·0	29·0
Leningrad	49·5	352	i 9 2	- 2	—	—	24·8	31·6
Uccle	50·6	328	—	—	—	—	27·0	—
De Bilt	51·0	330	—	—	e 16 39	+ 8	e 27·0	—
San Fernando	51·1	308	—	—	—	—	—	29·5
Kew	53·4	327	—	—	—	—	e 31·0	—
Edinburgh	57·2	331	—	—	—	—	e 40·0	—
Irkutsk	63·3	37	—	—	—	—	37·0	41·9

Additional readings and notes : Baku gives all its readings as e, e = +16m.45s.
Makeyevka PR₁ = +8m.49s., SR₁ = +16m.12s., MN = +23·4m. Tash-
kent i = +8m.55s. = PR₁ + 5s., e = +17m.7s. = SR₁ + 23s. Kucino SR₁ =
+18m.23s., MN = +28·2m. Ekaterinburg SR₁ = +19m.31s., MN =
+30·9m., MZ = +31·6m. Strasbourg e = +28m.2s. Pulkovo iPR₁ =
+10m.59s., SR₁ = +20m.2s., MNZ = +31·9m. Leningrad PR₁ =
+11m.2s., e = +20m.3s. = PR₁ + 7s., MNZ = +32·0m.

Oct. 30d. 10h. 11m. 21s. Epicentre 16°·3N. 120°·6E. (as on 29d. and given by De Bilt).

A = -·489, B = +·829, C = +·281 ; D = +·861, E = +·509 ;
G = -·143, H = +·242, K = -·960.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	1·8	168	i 0 45	+17	—	—	i 12·2	—
Hong Kong	8·5	316	2 2	- 7	(3 56)	+ 6	3·9	—
Taihoku	8·8	6	e 2 31	+18	—	—	5·0	8·9
Zi-ka-wei	14·9	3	3 46	+ 8	i 6 49	+19	—	10·2
Hukuoka	19·4	25	5 0	+26	—	—	8·9	—
Amboina	21·3	159	e 6 12	+75	—	—	—	—
Sumoto	22·1	33	(e 4 43)	-23	(e 9 27)	+20	(18·5)	(19·8)
Osaka	22·7	33	5 37	+24	(9 24)	+ 5	9·4	11·6
Batavia	26·3	212	i 5 38	-13	i 10 8	-20	—	—
Calcutta	31·0	286	6 14	-24	—	—	17·5	—
Irkutsk	31·0	286	6 37	- 1	—	—	18·4	—
Hyderabad	38·0	345	i 7 32	- 6	13 28	-10	20·6	22·1
Simla	40·3	278	7 39	-18	13 46	-25	21·4	25·4
Tashkent	42·1	300	e 13 51	?S	(e 13 51)	-45	e 23·4	—
Ekaterinburg	50·5	312	i 9 6	- 4	i 16 17	- 8	e 26·6	33·3
Baku	60·1	327	i 10 18	+ 5	—	—	—	37·3
Makeyevka	65·0	310	e 10 47	+ 2	119 29	+ 4	33·6	47·2
Leningrad	72·5	325	11 35	+ 2	20 54	- 2	33·6	41·5
Pulkovo	73·1	317	—	—	—	—	38·6	47·4
Upsala	76·0	330	i 11 58	+ 3	21 39	+ 2	41·2	51·0
Budapest	76·1	330	i 11 56	0	21 38	0	40·6	47·6
Vienna	82·3	381	—	—	e 22 39	-10	—	45·4
Hamburg	85·7	320	e 20 9	?	e 23 26	-15	e 46·2	59·6
Cheb	87·0	321	e 12 56	- 3	e 23 10	—	e 47·6	59·6
Rocca di Papa	88·6	326	—	—	e 23 39?	[+ 9]	e 46·6	50·6
De Bilt	88·7	323	—	—	e 23 39?	[+19]	e 70·8	72·2
Florence	91·7	315	—	—	e 23 52	[+13]	e 48·6	52·8
Strasbourg	91·8	326	13 20	- 6	e 23 52	[+13]	e 50·6	58·9
Dyce	92·1	324	—	—	e 23 39?	[- 2]	39·6	62·5
Uccle	92·7	334	—	—	—	—	—	59·6
	92·9	325	—	—	—	—	e 47·6	51·6

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.
Moncalieri	93.6	320	e 20 54	?	33 55	?	49.8	—
Edinburgh	93.7	333	—	—	e 24 3	[+13]	50.6	52.6
Stonyhurst	94.6	330	—	—	e 24 9	[+14]	51.6	54.2
Paris	94.9	324	—	—	e 24 2	[+ 6]	51.6	57.6
Kew	95.0	329	—	—	e 24 8	[+11]	48.6	—
Oxford	95.3	329	1 22 9	?	—	—	e 51.6	60.2
Bidston	95.3	330	14 39?	+54	—	—	46.2	56.8
Barcelona	98.9	319	—	—	—	—	e 55.4	62.3
Toledo	103.1	320	—	—	—	—	e 57.9	—
Granada	105.1	318	e 18 24	?PR ₁	—	—	e 55.2	60.6
San Fernando	107.2	318	—	—	—	—	e 55.2	69.6
Ottawa	116.2	12	—	—	e 27 51	-29	e 54.6	—
Toronto	117.3	16	—	—	—	—	—	68.6
La Paz	171.6	92	21 9	[+53]	—	—	30.0	34.4
Sucre	173.8	117	—	—	e 25 26	?PR ₁	31.5	32.8

Additional readings: Sumoto eSR₁=(+14m.17s.), MN=(+19.5m.); all readings have been increased by 9m. Osaka MN = +11.2m. Irkutsk SR₁ = +16m.47s., MZ = +26.6m., MN = +28.6m. Tashkent e = +10m.6s., i = +11m.8s. = PR₁ -13s., e = +20m.9s. ? = SR₁ -7s., MZ = +38.3m., MN = +38.8m. Ekaterinburg MZ = +40.8m. Baku iPR = +10m.50s., MN = +40.0m., MZ = +40.8m. Kucino PR₁ = -14m.19s., PR₁ = +16m.4s., PS = +21m.47s. Makeyevka MN = +44.5m., MZ = +48.6m. Leningrad PR₁ = +14m.57s., MN = +44.2m., MZ = +53.7m. Pulkovo PR₁ = +14m.54s., SR₁ = +29m.51s., MN = +42.0m., MZ = +53.5m. Hamburg eR = +23m.33s., MN = +50.6m. De Bilt MZ = +62.5m. Strasbourg MN = +54.1m. Ottawa e = +36m.14s. = SR₁ +14s.

Oct. 30d. 13h. 46m. 24s. Epicentre 9°5'N. 123°0'E. (as on 1925 May 5d.).

A = -0.537, B = +0.827, C = +0.165; D = +0.839, E = +0.545;
G = -0.090, H = +0.138, K = -0.986.

A depth of focus 0.070 has been assumed. No correction for focus has been applied in forming residuals for [S].

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila		+0.6	5.5	339	i 1 53	+20	—	i 3.2	—
Hong Kong		-2.0	15.4	328	3 31	+13	5 23	-30	6.4
Taihoku	E.	-2.0	15.6	355	e 3 34	+13	(6 11)	+13	6.2
Zi-ka-wei		-3.1	21.7	356	e 4 15	-9	e 7 38	-15	—
Kobe		-4.0	27.5	21	5 9	-14	—	—	—
Osaka		-4.0	27.8	23	4 9	-75	(9 11)	-25	9.2
Mizusawa		-4.6	33.8	27	(6 10)	-10	(11 6)	-14	(15.8)
Hyderabad		-5.7	43.9	288	7 32	-8	13 36	-5	—
Irkutsk		-5.8	45.4	345	7 47	-4	e 16 44	?SR ₁	—
Simla	N.	-6.0	47.6	305	14 6	?S	(14 6)	-23	—
Tashkent		-6.8	56.8	315	i 8 12	-55	i 16 30	+11	e 28.6
Ekaterinburg		-7.5	67.1	328	i 10 17	+8	i 18 33	+15	25.1
Baku		-7.8	71.0	310	e 10 45	+12	i 19 24	+21	—
Kucino		-8.2	79.4	325	i 11 25	+1	20 42	+2	36.7
Makeyevka		-8.2	79.6	319	e 11 30	+4	20 50	+7	42.6
Leningrad		-8.3	83.1	330	i 11 45	-3	21 17	-7	33.6
Pulkovo		-8.3	83.2	330	i 11 43	-5	21 14	-11	40.6
Upsala		-8.6	89.4	331	—	—	e 21 53	[-91]	—
Hamburg		-8.7	95.5	327	—	—	e 22 30	[-90]	e 52.6
Florence		-8.8	98.6	318	e 18 41	?PR ₁	—	—	—
De Bilt		-8.8	98.8	326	e 12 59	-17	—	—	e 48.8
Strasbourg		-8.8	98.9	324	—	—	1 22 43	[-95]	31.6
Dyce		-8.8	99.7	334	—	—	1 22 46	[-97]	—
Moncalieri		-8.8	100.5	320	e 17 36	?PR ₁	22 52	[-94]	27.7
Edinburgh		-8.8	100.9	353	—	—	1 22 54	[-94]	—
Stonyhurst		-8.9	101.7	351	e 18 3	?PR ₁	1 23 1	[-92]	26.6
Kew		-8.9	102.0	350	—	—	1 23 0	[-94]	34.6
Oxford		-8.9	102.4	330	—	—	1 23 0	[-96]	—
La Paz		—	167.1	124	19 21	[-52]	—	—	—
Sucre		—	167.6	141	1 19 17	[-57]	—	—	—

For Notes see next page.

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NOTES TO OCT. 30d. 13h. 46m. 24s.

Additional readings and notes : Mizusawa readings have all been increased by 5m. Hyderabad SR₁ = +17m.6s. = SR₁ + 0s. Simla eE = +14m.18s. Tashkent i = +16m.45s., SR₁ = +20m.36s., MN = +29.1m., MZ = +31.2m. Ekaterinburg i = +12m.0s. and +13m.4s., iPS = +19m.20s., SR₁ = +21m.42s. Kucino e = +13m.20s. and +14m.13s., PR₁ = +14m.40s., PR₂ = +17m.12s., PS = +20m.50s., SR₁ = +24m.2s., SR₂ = +29m.8s., e = +32m.58s. Makeyevka MN = +44.3m., MZ = +51.4m. Leningrad i = +13m.42s., PR₁ = +14m.32s., e = +24m.47s., MZ = +45.4m., MN = +48.0m. Pulkovo i = +13m.40s., PR₁ = +14m.29s., i = +24m.44s., SR₁ = +27m.6s., MN = +44.5m. Upsala e = +22m.20s. = S - 13s. Hamburg iE = +22m.32s. De Bilt ePR₁Z = +17m.14s., ePR₂Z = +19m.57s., i = +22m.47s., e = +26m.30s., MN = +54.6m., MZ = +61.3m. Dyce e = +26m.26s.

Oct. 30d. 19h. 41m. 42s. Epicentre 48°-0N. 127°-5W. (as on 1921 May 28d.).

A = -.407, B = -.531, C = +.743 ; D = -.793, E = +.609 ;
G = -.452, H = -.590, K = -.669.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	2.8	77	2 7	?S	(2 7)	+50	3.3	4.0
Spokane		6.7	90	i 2 9	+27	i 4 5	+63	i 4.8	5.5
Sitka		10.2	335	2 28	- 5	(e 4 16)	-19	4.3	5.3
Berkeley		10.8	158	e 3 9	+28	e 5 38	?L	e 6.3	—
Lick		11.5	156	e 3 21	+29	5 57	?L	e 6.9	—
Denver		18.1	109	i 5 22	+64	i 9 12	+90	i 11.8	14.5
Tucson		20.1	135	e 5 9	+27	i 9 20	+55	e 12.1	14.1
St. Louis	E.	28.4	96	i 6 23	+11	i 11 25	+19	e 16.5	19.4
Chicago	E.	28.6	88	6 43	+29	11 40	+30	i 15.3	19.0
	N.	28.6	88	e 6 51	+37	e 11 51	+41	e 15.3	17.5
Ann Arbor	E.	30.9	85	e 6 36	- 1	e 12 0	+10	e 16.6	18.4
	N.	30.9	85	e 6 24	-13	e 12 0	+10	e 16.3	18.6
Toronto		33.2	80	7 5	+ 7	e 12 21	- 6	16.7	21.2
Ottawa		34.9	75	e 7 18	+ 6	i 12 51	- 3	e 17.5	20.5
Ithaca		35.6	80	—	—	e 12 58	- 6	e 17.0	21.3
Honolulu		36.2	234	—	—	—	—	e 14.9	17.2
Tacubaya		36.6	134	7 56	+29	—	—	21.2	24.9
Cheltenham	N.	37.2	85	—	—	—	—	e 20.9	21.8
Fordham		38.1	81	7 37	- 2	e 13 36	- 3	e 19.1	24.0
Harvard		39.2	78	7 50	+ 2	14 6	+12	e 19.9	22.7
Dyce		65.5	30	—	—	e 19 42	+11	25.3	34.1
Edinburgh		66.2	31	—	—	20 18?	?PS	30.3	38.9
Stonyhurst		68.0	32	e 12 33	+89	e 20 21	+19	—	37.3
Upsala	N.	68.5	19	—	—	e 20 18?	+10	e 37.3	44.0
Oxford		70.2	33	—	—	20 42	+14	e 31.3	39.7
Bidston		70.3	32	—	—	20 18	-12	31.5	40.5
Irkutsk		70.5	330	e 11 27	+ 7	e 20 32	0	37.3	—
Leningrad		70.5	11	e 11 32	+12	—	—	33.9	42.1
Pulkovo		70.7	11	e 11 31	+10	i 20 41	+ 7	33.3	42.2
Kew		70.8	33	e 11 38	+16	—	—	29.3	42.3
De Bilt		72.0	28	11 45	+15	21 4	+14	e 34.3	39.0
Hamburg		72.2	26	e 11 54	+23	e 21 9	+17	e 35.3	43.3
Uccle		72.9	30	—	—	e 21 13	+12	e 33.3	44.2
Paris		74.0	32	—	—	e 21 32	[-10]	35.3	42.3
Ekaterinburg		75.0	356	11 43	- 6	i 21 27	+ 1	33.8	41.8
Kucino		75.5	9	e 11 54	+ 2	21 36	+ 4	37.3	48.5
Strasbourg		75.9	29	—	—	e 21 18?	-18	e 31.3	45.8
Cheb		76.0	25	e 19 18?	?L	—	—	e 40.3	46.3
Besançon		76.5	30	—	—	—	—	36.3	—
Vienna		78.8	24	e 12 19	+ 7	e 22 17	+ 7	e 41.3	49.3
Toledo	N.W.	78.9	41	—	—	e 22 22	+11	—	—
Moncalieri		79.1	31	—	—	e 22 25	+12	37.1	—
Rio Tinto		79.4	45	35 18?	?L	—	—	(35.3)	47.3
Graz		79.6	25	—	—	—	—	e 42.3	—
Tortosa	N.	80.0	37	—	—	—	—	e 38.3	44.9
Barcelona		80.1	37	—	—	—	—	e 39.9	48.0
Budapest		80.2	23	—	—	e 21 48	-37	43.8	—
San Fernando		80.7	45	—	—	34 30	?L	(34.5)	44.8
Granada		81.2	43	e 12 52	+26	—	—	e 40.8	44.3

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.
Florence	81.3	30	e 12 38	+11	23 18	+40	37.3	47.8
Makeyevka	83.2	10	e 12 29	-8	e 22 59	0	39.3	59.2
La Paz	83.3	125	13 4	+26	e 23 24	+24	—	51.7
Sucre	87.0	124	13 12	+13	23 58	+17	47.1	54.1
Tashkent	89.5	349	i 13 9	-4	24 7	-2	e 39.3	52.0
Baku	91.6	3	e 13 27	+2	e 23 46	[+ 8]	43.3	59.6
Cape Town	151.0	74	—	—	—	—	—	80.8

Additional readings: Spokane $iE = +1m.25s.$, $+1m.37s.$, $+1m.51s.$, $+1m.58s.$, and $+3m.14s.$, $iSE = +4m.6s.$, Berkeley $eP = +3m.10s.$, $ePR_1EN? = +3m.14s.$, $ePR_2EN? = +3m.16s.$, $eN = +5m.43s.$, Lick $PR_1N = +3m.33s.$, $PR_2E = +3m.35s.?$, $eSN = +6m.0s.$, $SR_1N = +6m.22s.$, Denver $iPR_1N = +5m.46s.$, $eSE = +9m.18s.$, $eSR_1N = +10m.5s.$, Tucson $PR_1 = +5m.31s.$, $PR_2 = +5m.45s.$, $eLN = +12.0m.$, $MN = +12.8m.$ and several other e readings. St. Louis $iPR_1E = +7m.12s.$, Chicago $PR_1E = +7m.25s.$, $PR_2E = +7m.48s.$, $SR_1EN = +13m.18s.$, $eSR_2N = +14m.12s.$; $T_0 = 19h.41m.53s.$ and $19h.42m.11s.$, Ann Arbor $ePR_1 = +7m.24s.$, $iSR_1 = +14m.0s.$; $T_0 = 19h.40m.54s.$, Toronto $PE = +7m.8s.$, $iE = +7m.36s.$, $eE = +8m.3s.$, $iSE = +12m.28s.$, $MN = +20.0m.$, Ottawa $MN = +20.6m.$; $T_0 = 19h.42m.1s.$, Fordham $PR_1 = +9m.8s.$, $i = +10m.30s.$, $SR_1 = +16m.28s.$, and several other eE readings; $T_0 = 19h.41m.52s.$, Harvard $PR_1E = +9m.26s.$ and several e readings. Lenin-grad $MZ = +42.2m.$, $MN = +42.3m.$, Pulkovo $SR_1 = +25m.12s.$, $SR_2 = +28m.42s.$, $MZ = +42.3m.$, $MN = +42.4m.$, Kew: $iS = SR_2?$, De Bilt $MZ = +46.2m.$, Ekaterinburg $e = +14m.53s. = PR_1 - 15s.$, $SR_1 = +26m.19s.$, $eSR_2 = +29m.29s.$, $MN = +44.6m.$, Kucino $PS = +22m.22s.$, $e = +26m.24s.$, $MN = +44.5m.$, Strasbourg $MN = +47.3m.$, Monca-lieri $S? = +31m.34s. = SR_2 + 6s.$, Tortosa readings are given for 31d. Makeyevka $ePR_1 = +19m.23s. = PR_2 - 1s.$, $MN = +50.2m.$, $MZ = +56.3m.$, Sucre $PS = +24m.36s.$; $T_0 = 19h.41m.50s.$, Tashkent $PR_1 = +16m.50s.$, $PR_2 = +19m.26s.$, $SR_1 = +30m.16s.$, $SR_2 = +36m.39s.$, $MZ = +53.4m.$, $MN = +53.6m.$, Baku $e = +20m.19s.$, $MN = +58.8m.$, $MZ = +60.7m.$

Oct. 30d. Readings also at 0h. (Sucre), 1h. (Nagasaki, Pulkovo, Leningrad, La Plata (2), La Paz, Sucre, and near Athens), 5h. (near Victoria), 6h. (Toronto, Ottawa, Chicago, and Rocca di Papa), 8h. (Toronto, Ottawa, Chicago, near Tashkent, near Port au Prince, and San Juan), 9h. (De Bilt and near Tacubaya), 10h. (Nagasaki, Batavia, and near Malabar), 11h. (Hong Kong and near Manila), 12h. (Pulkovo, Leningrad, Ekaterinburg, and De Bilt), 15h. (Pulkovo, Leningrad, and Nagasaki), 16h. (Victoria), 17h. (near Nagasaki), 21h. (near Manila).

Oct. 31d. 11h. 43m. 15s. (I) } Epicentre $11^{\circ}5N. 43^{\circ}5E.$ (as on Oct. 30d.)
17h. 12m. 38s. (II)

$A = +.711$, $B = +.675$, $C = +.199$; $D = +.688$, $E = -.725$;
 $G = +.145$, $H = +.137$, $K = -.980$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Entebbe	15.8	225	—	—	6 23	-27	7.4	—
II	15.8	225	4 16	+27	6 8	-42	8.0	10.0
I Baku	29.5	10	e 6 42	+19	i 11 25	-1	15.8	19.4
II	29.5	10	e 6 31	+8	e 11 19	-7	16.4	20.7
I Makeyevka	36.9	355	e 7 18	-11	e 13 12	-10	17.8	27.7
II	36.9	355	e 8 46	$\{PR_1$	e 13 22	0	21.4	24.6
I Tashkent	37.4	32	i 7 32	-1	i 13 25	-5	e 20.8	24.8
II	37.4	32	i 7 31	-2	13 29	-1	e 19.4	26.6
I Ekaterinburg	47.3	12	e 8 50	+1	—	—	22.8	29.4
II	47.3	12	e 10 54	$\{PR_1$	15 45	0	24.4	31.6
I Pulkovo	49.3	352	(e 9 4)	+2	(e 16 19)	+9	(29.8)	(32.0)
II	49.3	352	(10 56)	$\{PR_1$	(e 16 21)	+11	(30.4)	(31.7)
I Irkutsk	63.3	37	—	—	—	—	e 34.8	—
II	63.3	37	—	—	—	—	e 34.4	—

Additional readings and notes: Baku $iMN = +20.8m.$, $iiMN = +20.4m.$, $MZ = +21.9m.$, Makeyevka $i ePR_1 = +8m.50s.$, $MNZ = +24.5m.$, $iiMN = +23.5m.$, Tashkent $i eP = +8m.56s. = PR_1 + 6s.$, $i = +10m.42s.$, $e = +14m.23s.$, $iS = +16m.18s. = SR_2 - 15s.$, $MNZ = +25.9m.$, $ii iPR_1 = +9m.4s. = PR_2 - 13s.$, $iSR_1 = +16m.11s. = SR_2 - 22s.$, $MN = +25.9m.$, $MZ = +26.5m.$, Ekaterinburg $i e = +14m.46s.$ and $+15m.16s. = S - 29s.$, $MN = +31.7m.$, $iiMN = +30.9m.$, Pulkovo $iP = (+10m.55s.) = PR_1 - 14s.$, $S = (+20m.8s.) = SR_1 + 16s.$, $SR_1 = (+25m.27s.) = L?$, $iiS = (+19m.58s.) = SR_1 + 6s.$, $MZ = (+32.0m.)$; all readings have been increased by 1m.

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Oct. 31d. Readings also at 0h. (Tashkent and Entebbe), 1h. (Baku), 5h. (Ekaterinburg, Pulkovo, Leningrad, Tashkent, and Nagasaki), 9h. (Ekaterinburg, La Paz, and Sucre), 10h. (La Paz and Sucre), 12h. (Nagasaki), 13h. (Tashkent), 14h., 15h., 16h., and 17h. (Nagasaki), 18h. (La Paz), 21h. (La Paz), 22h. (Apia).

Nov. 1d. 1h. 39m. 15s. Epicentre 48°-0N. 127°-5W. (as on 1926 Oct. 30d.).

A = -.407, B = -.531, C = +.743; D = -.793, E = +.609;
G = -.452, H = -.590, K = -.669.

		Δ	Az.	P.		O-C.		S.		O-C.		L.		M.	
				m.	s.	m.	s.	m.	s.	m.	s.	m.	s.		
Spokane	E.	6.7	90	11	55	+13		13	30	+28		i 4.2	5.1		
	N.	6.7	90	e 2	0	+18		i 3	30	+28		e 3.9	5.1		
Sitka		10.2	335	2	13	-20		(4 8)		-27		15.0	5.4		
Berkeley		10.8	158	e 2	57	+16		e 5	24	+34		e 6.7			
Santa Clara		11.3	157	e 3	4	+15		i 5	35	+33		6.8	7.3		
Lick		11.5	156	i 3	9	+17		e 5	37	+30		i 6.8			
Saskatoon		13.9	65	i 3	33	+8		i 6	36	+30		i 7.3	8.7		
Denver		18.1	109	(i 4 22)		+4		(e 8 9)		+27		(e 10.2)	(12.0)		
Tucson		20.1	135	4	47	+5		8	50	+25		e 11.2	13.7		
St. Louis	E.	28.4	96	i 6	11	-1		e 11	3	-3		e 16.1	19.0		
Chicago	E.	28.6	88	6	38	+24		i 11	38	+28		14.4	19.0		
	N.	28.6	88	6	43	+29		e 11	38	+28		e 16.4	17.2		
Ann Arbor		30.9	85	e 6	27	-10		i 11	45	-5		e 15.4	19.8		
Toronto	E.	33.2	80					e 12	14	-13		16.6	21.4		
Loyola		33.7	110	8	44	+102		12	53	+17		17.4	19.7		
Ottawa		34.9	75	i 7	0	-12		i 12	38	-16		e 17.0	20.2		
Ithaca		35.6	80	7	13	-5		13	2	-2		16.8			
Honolulu	E.	36.2	234					12	23	-50		e 14.8	19.0		
Tacubaya		36.6	134	7	12	-15		13	9	-9		16.2?	24.2		
Cheltenham		37.2	85									21.0	24.4		
Rdham		38.1	81	e 7	57	+18		e 13	30	-9		17.2	23.2		
Harvard		39.2	78					13	54	0		19.4	23.2		
San Juan	N.	57.4	100					e 19	9	+78		e 29.8	41.2		
Bergen		65.1	24									e 30.8			
Dyce		65.5	30					19	33	+2		e 26.8	34.3		
Edinburgh		66.2	31					e 19	45?	+5		28.8	39.0		
Stonyhurst		68.0	32	11	14	+10		e 20	3	+1		31.8	37.6		
Upsala		68.5	19	e 11	3	-5		e 20	6	-2		e 34.8	43.6		
Azores		69.7	57	37	3	?L		39	57	?		(37.0)	44.0		
Oxford		70.2	33					i 20	38	+1		e 30.8	39.4		
Bidston		70.3	32									27.4	40.4		
Irkutsk		70.5	330	e 11	25	+5		20	22	-10		35.8			
Leningrad		70.5	11	11	21	+1		20	30	-2		29.8	45.2		
Pulkovo		70.7	11	11	20	-1		20	30	-4		30.8	41.4		
Kew		70.8	33	e 11	29	+7		e 20	40	+4		29.8	38.3		
De Bilt		72.0	28	11	36	+6		20	55	+5		e 33.8	38.7		
Hamburg		72.2	26	e 11	30	-1		e 20	56	+4		e 29.8	38.8		
Uccle		72.9	30	i 11	52	+17		i 21	3	+2		e 29.8	35.9		
Paris		74.0	32					e 21	13	+4		31.8	34.8		
Ekaterinburg		75.0	356	11	43	-6		21	15	-11		34.8	41.5		
Kucino		75.5	9	11	48	-4		21	27	-5		32.6	48.3		
Strasbourg		75.9	29					i 21	46	+10		35.8	39.3		
Cheb		76.0	25					e 21	41	+4		e 32.8	40.8		
Besançon		76.5	30									31.8	40.8		
Ravensburg	N.	77.2	28	e 11	45	-17						e 40.7	48.1		
Zurich		77.3	30	e 11	57	-6		e 22	28	?PS					
Chur		78.0	30	12	15	+8		e 22	1	+1					
Innsbruck	N.E.	78.2	27	e 12	13	+5		e 21	58	-4			42.3		
Vienna		78.8	24	e 12	8	-4		e 22	11	+1		e 35.8	42.8		
Toledo		78.9	41					e 22	10	-1		e 32.3	43.3		
Moncalleri		79.1	31	e 12	16	+2		22	5	-8		35.0	43.8		
Tortosa	N.	80.0	37									e 31.8	44.8		
Barcelona	N.	80.1	37	e 22	26	?S		(e 22 26)		+2		e 37.2	45.7		
Budapest		80.2	23	12	7	-13		22	31	+6		34.2	51.8		
San Fernando		80.7	45					22	37	+6		33.8	45.2		
Zagreb		80.9	25									e 33.8			
Granada		81.2	43	e 12	27	+1						38.4	53.3		
Malaga		81.2	43	e 22	27	?S		(e 22 27)		-10		e 31.8	42.1		
Florence		81.3	30	12	30	+3		22	45	+7			47.4		
Alicante		81.6	40	e 30	0	?		35	20	?		42.6	48.2		
Makeyevka		83.2	10	e 12	32	-5		22	54	-5		39.8	51.5		

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.
La Paz	83.3	125	1 12 54	+16	1 23 12	+12	44.8	50.8
Algiers	84.5	38	—	—	—	—	—	46.8
Sucre	87.0	124	1 13 3	+4	1 23 36	-5	45.6	45.4
Athens	90.4	23	—	—	e 23 59	-19	40.8	49.2
Hong Kong	90.7	306	19 25	PR ₁	—	—	—	51.2
Baku	91.6	3	13 13	-12	1 24 11	-20	43.8	58.9
Simla	97.8	340	—	—	—	—	50.6	—
La Plata	103.5	129	—	—	—	—	50.8	—
Riverview	109.3	241	e 16 3	+69	—	—	50.0	72.4
Hyderabad	110.6	334	—	—	—	—	—	55.2
Bombay	110.7	340	—	—	—	—	e 54.8	—
Melbourne	115.7	242	—	—	e 35 21	SR ₁	—	63.2
Adelaide	117.6	249	—	—	—	—	—	64.1
Entebbe	128.9	27	—	—	e 39 5	SR ₁	—	—

Additional readings and notes: Spokane iN = +3m.51s., iE = +3m.58s.
 Sitka S is given as L. Berkeley PR₁? = +3m.2s., PR₂? = +3m.3s.,
 PR₂N? = +3m.5s., SR₁N = +5m.37s., eLN = +6.5m. Santa Clara iPE =
 +3m.6s., iE = +3m.32s., eE = +4m.8s. Lick eSE = +5m.39s., eSN =
 +5m.47s., eZ = +5m.44s. Saskatoon MN = +9.4m.; T₀ = 1h.39m.1s.
 Denver iS = (+8m.10s.), MN = (+13.4m.), and several i readings; all the
 readings have been diminished by 1m. Tucson PR₁ = +5m.9s., PR₂N =
 +5m.20s., SR₁E = +9m.45s., SR₂N = +9m.49s., LN? = +10.8m., MN =
 +12.0m.; T₀ = 1h.38m.47s. and 1h.38m.58s. St. Louis ePR₁E = +6m.57s.
 iSE = +11m.15s., SR₁E = +13m.3s., SR₂E = +13m.28s., SR₃E = +13m.46s.
 Chicago PR₁E = +7m.10s., iSN? = +11m.56s., SR₁E = +13m.19s.; T₀ =
 1h.39m.19s. and 1h.39m.34s. Ann Arbor iPR₁ = +7m.39s., eSR₁ =
 +13m.33s., MN = +20.2m.; T₀ = 1h.38m.54s. Toronto PR₁E =
 +7m.46s., eN = +7m.48s., iSE = +12m.23s., iE = +12m.42s. Ottawa
 iPR₁? = +8m.0s., iE = +8m.24s., MN = +21.0m.; T₀ = 1h.39m.9s. Hono-
 lulu SR₁E? = +14m.34s., MN = +19.2m. Fordham i = +8m.35s. =
 PR₁-24s. and +8m.50s. = PR₁-9s., e = +11m.45s., eSN = +13m.17s.,
 MN = +20.9m.; T₀ = 1h.39m.9s. Harvard SR₁N = +16m.15s., SR₂E =
 +16m.21s. San Juan ME = +37.8m. Edinburgh i = +27m.15s. =
 SR₁-4s. Upsala MN = +40.9m. Leningrad MZ = +42.0m., MN =
 +42.5m. Pulkovo SR₁ = +25m.3s., SR₂ = +28m.51s., MZ = +38.1m.,
 MN = +39.0m. De Bilt MN = +38.8m., MZ = +44.1m. Hamburg
 eSN = +21m.3s., MZ = +44.8m. Uccle MN = +36.2m. Paris MN =
 +34.8m. Ekaterinburg SR₁ = +26m.3s., SR₂ = +29m.27s., MN =
 +40.3m. Kucino e = +14m.41s. = PR₁-31s., and +17m.30s. = PR₂-21s.,
 PS = +22m.7s., SR₁ = +26m.15s., MN = +44.7m. Strasbourg iPS =
 +22m.59s., MN = +47.2m. Ravensburg eLE = +34.0m., ME = +41.2m.
 Toledo MNW = +46.8m. Moncalieri MN = +43.6m. Barcelona MN =
 +50.3m. San Fernando MN = +44.8m. Malaga iP = +22m.41s. =
 S +4s., S = +28m.35s. = SR₁ +5s. Makeyevka SR₁ = +29m.40s., MN =
 +50.6m., MZ = +64.9m. La Paz iSN = +23m.10s. = S +10s., SR₂ =
 +29m.20s. = SR₁ +20s., MN = +51.6m.; T₀ = 1h.39m.39s. Sucre PS =
 +24m.12s., i = +24m.39s., +25m.8s., and +25m.48s., SR₁ = +29m.3s.;
 T₀ = 1h.39m.28s. Baku S₁P₁S = +23m.41s. = (S) +3s. Simla eE =
 +51m.33s. Riverview ePPS? = +30m.43s., eSR₁? = +34m.3s., eSR₂? =
 +40m.4s., eSR₃? = +43m.19s., MN = +75.2m.

Nov. 1d. 15h. 5m. 18s. Epicentre 52°-5N. 162°-0W.

A = -.579, B = -.188, C = +.793; D = -.309, E = +.951;
 G = -.755, H = -.245, K = -.609.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Chicago	N. 49.4	71	—	—	—	—	e 25.2	31.7
Toronto	E. 52.8	64	—	—	—	—	—	32.7
Irkutsk	52.9	310	e 9 24	-1	e 16 55	0	e 28.7	—
Ottawa	53.7	60	—	—	—	—	—	e 27.7
Ekaterinburg	65.2	336	10 47	+1	19 29	+2	31.7	43.4
Leningrad	67.1	354	—	—	—	—	e 36.2	45.9
Pulkovo	67.3	354	e 11 1	+1	e 19 52	-2	34.7	—
Kucino	70.5	348	—	—	e 20 28	-4	40.7	—
Makeyevka	78.0	347	—	—	—	—	e 50.7	—
Baku	83.1	336	e 12 34	-3	e 22 57	-1	42.7	51.4

Additional readings: Chicago eLE = +28.7m., ME = +31.5m. Ekaterin-
 burg i = +10m.48s., MZ = +45.0m. Leningrad MZ = +50.5m. Kucino
 e = +20m.50s. and +21m.40s. Baku MN = +60.2m., MZ = +60.3m.

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Nov. 1d. 23h. 29m. 30s. Epicentre 23°·7N. 127°·0E.

A = -·551, B = +·731, C = +·402; D = +·799, E = +·602;
G = -·242, H = +·321, K = -·916.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	5·1	286	e 1 0	-19	—	—	1·3	1·4
Zi-ka-wei	9·0	328	(e 2 58)	+42	(4 23)	+20	—	(6·9)
Manila	10·8	213	—	—	—	—	e 5·5	—
Hong Kong	11·9	266	—	—	—	—	3·8	6·0
Phu-Lien	19·1	265	e 4 14	-16	—	—	—	—
Irkutsk	33·4	334	e 6 56	-4	e 12 28	-2	17·5	20·9
Ekaterinburg	57·5	324	i 10 5	+9	e 18 4	+11	29·5	35·6
Baku	65·5	307	e 10 54	+6	—	—	e 33·5	—
Kucino	70·1	324	—	—	—	—	34·6	42·8
Makeyevka	71·9	317	—	—	—	—	e 36·5	45·6
Leningrad	72·9	330	—	—	—	—	e 38·7	45·4
Pulkovo	72·9	330	e 11 50	+15	e 21 38	[+5]	38·5	46·5
De Bilt	88·8	329	—	—	—	—	e 46·5	55·6
Strasbourg	89·7	325	—	—	—	—	55·5	—
Uccle	90·1	329	—	—	—	—	e 46·5	—
Florence	90·5	319	—	—	—	—	e 54·5	57·5
Moncalieri	91·8	322	—	—	—	—	e 52·2	—
Kew	91·8	331	—	—	—	—	54·5	—

Additional readings and notes: Taihoku has a shock earlier by 2m.12s. in all three phases, P, L, and M. Zi-ka-wei readings have been increased by 2m., but the readings may belong to the earlier shock noted by Taihoku. Irkutsk MZ = +20·8m. Ekaterinburg e = +21m.50s. = SR₁-35s., MZ = +35·7m. Baku e = +23m.58s. = SR₁-40s., and +27m.2s. = SR₂-1s. Kucino MN = +43·2m. Makeyevka L₁ = +39·5m. Leningrad MN = +45·2m., MZ = +46·4m. Pulkovo MN = +46·4m. De Bilt MNZ = +56·9m.

Nov. 1d. Readings also at 3h. (Amboina), 7h. and 8h. (Nagasaki), 10h. (River-view), 12h. (Nagasaki), 16h. (Victoria), 20h. (La Plata), 22h. (near Lick), 23h. (Taihoku (2)).

Nov. 2d. 1h. 51m. 30s. Epicentre 15°·5N. 122°·0E.

A = -·511, B = +·817, C = +·267; D = +·848, E = +·530;
G = -·142, H = +·227, K = -·964.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	1·4	227	i 0 27	+6	(i 0 44)	+5	i 0·7	—
Hong Kong	10·1	314	—	—	—	—	—	6·0
Zi-ka-wei	15·7	358	e 4 5	+17	—	—	—	11·5
Irkutsk	39·4	343	e 7 40	-10	e 13 38	-19	20·5	—
Ekaterinburg	61·5	327	i 10 25	+3	18 50	+8	30·5	37·7
Kucino	74·0	325	—	—	—	—	42·6	—
Makeyevka	74·6	318	—	—	—	—	e 42·5	—
Pulkovo	77·5	330	—	—	—	—	e 43·5	52·2
De Bilt	93·3	327	—	—	—	—	e 51·5	—
Uccle	94·4	326	—	—	—	—	e 50·5	—

No additional readings.

Nov. 2d. 16h. 3m. 55s. Epicentre 4°·5S. 131°·0E. (as on 1919 Nov. 18d.).

A = -·654, B = +·752, C = -·078; D = +·755, E = +·656;
G = +·051, H = -·059, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	21·5	333	—	—	e 9 5†	+10	—	—
Perth	30·9	206	(e 7 0)	+23	(e 11 5)	-45	(e 14·6)	—
Adelaide	31·2	168	(e 6 37)	-3	e 12 59†	+65	13·2	18·7
Riverview	34·8	150	(e 7 7)	-4	(e 12 23)	-29	(e 15·6)	(16·5)
Sydney	34·9	150	8 41	†PR ₁	—	—	e 18·6	19·2
Melbourne	35·7	161	—	—	e 12 23	-43	e 19·1	23·6
Zi-ka-wei	36·9	346	e 6 55	-34	—	—	—	24·0
Wellington	53·7	140	—	—	—	—	e 29·1	—
Irkutsk	61·2	342	10 29	+9	18 59	+21	32·1	—

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.
Ekaterinburg	83.3	329	i 12 47	+ 9	23 13	+13	36.1	53.3
Baku	86.2	311	e 13 18	+24	e 24 24	?PS	e 45.6	58.7
Makeyevka	95.4	316	—	—	—	—	e 60.1	—
Pulkovo	99.3	330	—	—	—	—	e 57.1	63.3
Leningrad	99.3	330	—	—	e 22 43?	?PR ₂	—	—
De Bilt	114.9	326	—	—	—	—	e 62.1	—
Uccle	115.9	325	—	—	—	—	e 60.1	—
Chicago	129.3	36	—	—	—	—	e 62.9	—
Toronto	132.5	31	—	—	—	—	e 60.1	—
Ottawa	132.9	26	—	—	—	—	e 59.1	—
Sucre	151.6	146	20 0	[+ 2]	—	—	—	—
La Paz	151.7	138	19 54	[- 4]	—	—	—	—

Additional readings and notes : Perth readings have all been diminished by 6m. Adelaide SR₁ = +15m.55s., MN = +21.2m. Riverview readings have all been diminished by 3m. Baku e = +16m.44s. = PR₁ + 6s., MN = +62.9m., MZ = +65.3m. Ekaterinburg MZ = +53.0m. Chicago eLN = +68.3m. Sucre i = +20m.24s. La Paz i = +20m.33s. and +20m.56s.

Nov. 2d. 19h. 46m. 0s. Epicentre 46°·0N. 154°·0E. (as on 1922 May 4d.).

A = -·624, B = +·305, C = +·719; D = +·438, E = +·899;
G = -·647, H = +·315, K = -·695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	7.8	279	2 5	+ 7	(3 36)	+ 5	3.6	—
Mizusawa	11.7	239	3 8	+13	4 57	-15	11.2	—
Osaka	18.0	238	4 25	+ 8	7 39	- 1	11.4	12.5
Sumoto	18.6	238	4 27	+ 3	8 8	+15	11.8	—
Zi-ka-wei	29.1	251	6 3	-16	11 18	- 1	—	—
Irkutsk	32.4	300	6 36	-16	12 1	-13	e 18.0	20.0
Taihoku	E. 33.3	242	—	—	—	—	e 17.0	—
Phu-Lien	45.9	255	e 8 32	- 7	e 18 29	?SR ₁	24.0	—
Ekaterinburg	54.5	319	19 32	- 4	e 17 0	-15	26.0	33.8
Simla	E. 59.5	285	—	—	—	—	e 32.1	—
Leningrad	64.5	332	i 10 42	0	19 29	+10	32.2	41.4
Pulkovo	64.7	332	10 40	- 3	19 26	+ 5	33.0	43.0
Kucino	65.0	326	10 43	- 2	e 19 20	- 5	32.6	37.7
Upsala	68.3	339	—	—	e 20 27	+21	e 39.0	45.1
Baku	70.3	309	i 11 20	+ 1	i 20 42	+12	36.0	45.3
Bombay	70.4	277	e 12 0?	+41	—	—	—	—
Makeyevka	70.6	321	e 11 19	- 2	—	—	35.0	48.8
Dyce	74.9	348	—	—	—	—	—	49.0
Hamburg	75.8	340	e 11 51	- 3	—	—	e 40.0	45.0
Chicago	E. 76.5	43	—	—	e 21 36	- 7	e 35.9	—
	N. 76.5	43	—	—	e 21 34	- 9	e 34.7	36.1
Stonyhurst	78.1	347	—	—	—	—	e 49.0	—
De Bilt	78.3	341	12 7	- 2	22 3	- 1	e 41.0	45.6
Budapest	78.5	331	—	—	e 22 0?	- 6	e 45.5	—
Toronto	N. 78.6	37	—	—	22 0	- 7	45.0	—
Ottawa	78.7	33	—	—	e 22 3	- 5	e 40.0	—
Vienna	78.8	333	e 11 12	-60	—	—	—	51.0
Uccle	79.7	341	e 12 22	+ 5	e 22 15	- 5	e 41.0	—
Graz	80.0	333	—	—	e 22 16	- 7	43.0	54.7
Kew	80.1	346	—	—	—	—	e 40.0	—
Strasbourg	81.0	339	—	—	—	—	e 40.0	—
Paris	82.0	342	—	—	—	—	e 45.0	—
Florence	84.3	334	i 12 30	-14	23 20	+ 9	—	54.5
Moncalieri	84.3	337	—	—	e 22 1	- 70	49.2	52.5
Tortosa	N. 90.0	341	—	—	—	—	e 46.0	59.0
Toledo	91.9	345	—	—	—	—	e 50.8	63.0
Rio Tinto	94.4	345	62 0	?	—	—	—	69.0
Malaga	E. 95.0	343	—	—	—	—	e 43.8	—
San Fernando	E. 95.6	344	—	—	—	—	—	57.0

Additional readings : Irkutsk MN = +19.8m., MZ = +21.3m. Ekaterinburg i = +11m.15s. = PR₁ - 46s., SR₁ = +20m.48s. = SR₁ - 43s., MZ = +35.1m. Simla eN = +36m.12s. Leningrad i = +14m.45s. = PR₂ - 12s. e = +19m.17s., PS = +20m.31s., MN = +40.3m., MZ = +42.9m. Pulkovo PR₁ = +14m.27s., PS = +20m.35s., SR₁ = +23m.54s., SR₂ = +26m.18s., MN = +40.3m., MZ = +42.9m. Kucino PR₂ = +14m.42s., MN = +41.0m. Upsala MN = +42.3m. Baku MNZ = +45.4m.

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Makeyevka e = +16m.24s. = PR₁ - 26s., +22m.4s. and +29m.0s. ? = SR₂ + 14s., MN = +44.9m., MZ = +50.4m. Hamburg MN = +49.0m.
 Chicago eSR₁N = +26m.58s., eSR₁E = +27m.48s. De Bilt MN = +53.4m. Ottawa e = +30m.36s. = SR₂ - 44s. Toledo MNW = +61.4m.
 San Fernando MN = +62.5m.

Nov. 2d. 21h. 9m. 26s. Epicentre 46°0N. 154°0E. (as at 19h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	7.8	279	2 7	+ 9	(3 35)	+ 4	3.6	4.7
Mizusawa	E. 11.7	239	3 10	+15	5 0	-12	—	—
	N. 11.7	239	3 9	+14	5 2	-10	—	—
Osaka	18.0	238	4 22	+ 5	7 46	+ 6	10.7	13.3
Sumoto	18.6	238	4 24	0	7 1	-52	11.7	—
Zi-ka-wei	29.1	251	6 7	-12	e 11 16	- 3	—	18.9
Irkutsk	32.4	300	e 6 20	-32	11 56	-18	18.6	21.0
Taihoku	E. 33.3	242	—	—	e 12 34?	+ 5	—	—
Phu-Lien	45.9	255	e 8 32	- 7	—	—	23.6	—
Honolulu	N. 46.0	104	—	—	—	—	e 21.2	23.4
Ekaterinburg	54.5	319	i 9 31	- 5	17 8	- 7	25.6	34.8
Simla	N. 59.5	285	—	—	—	—	e 32.6	36.2
Leningrad	64.5	332	i 10 40	- 2	19 18	- 1	31.6	41.3
Pulkovo	64.7	332	i 10 42	- 1	19 21	0	32.6	35.9
Kucino	65.0	326	10 43	- 2	e 19 23	- 2	32.9	36.9
Hyderabad	67.6	275	11 8	+ 6	21 4	+67	38.0	45.0
Upsala	N. 68.3	339	e 11 2	- 4	e 19 57	- 9	e 34.6	42.6
Baku	70.3	309	i 11 20	+ 1	i 20 41	+11	35.1	46.7
Bombay	70.4	277	e 11 19	0	—	—	—	—
Makeyevka	70.6	321	e 11 20	- 1	e 20 30	+ 3	32.6	48.8
Dyce	74.9	348	—	—	e 21 34	+ 9	45.1	48.7
Hamburg	75.8	340	e 11 51	- 3	e 21 32	- 3	e 38.6	43.6
Edinburgh	76.3	348	—	—	—	—	e 47.6	—
Chicago	E. 76.5	43	—	—	21 26	-17	34.6	47.1
	N. 76.5	43	—	—	i 21 34	- 9	e 42.6	47.6
Stonyhurst	78.1	347	—	—	e 21 50	-11	e 48.6	53.1
De Bilt	78.3	341	12 7	- 2	22 3	- 1	e 41.6	50.9
Budapest	78.5	331	12 9	- 1	22 6	0	e 45.1	51.5
Toronto	E. 78.6	37	—	—	i 21 59	- 8	46.1	—
Ottawa	78.7	33	—	—	i 22 4	- 4	e 38.6	—
Vienna	78.8	333	e 12 7	- 5	—	—	—	53.6
Uccle	79.7	341	e 12 13	- 4	—	—	e 40.6	—
Oxford	80.0	346	—	—	i 22 14	- 9	42.6	57.6
Graz	80.0	333	e 12 32	+13	e 22 14	- 9	41.6	50.7
Kew	80.1	346	—	—	e 22 34?	+10	40.6	—
Strasbourg	81.0	339	e 12 19	- 6	e 23 34?	?PS	40.6	—
Zagreb	81.0	331	e 12 22	- 3	—	—	—	—
Innsbruck	81.1	336	e 12 12	-14	—	—	—	—
Ravensburg	81.1	339	—	—	—	—	45.3	—
Zurich	81.8	338	e 12 24	- 5	e 22 37	- 7	—	—
Paris	82.0	342	—	—	—	—	e 45.6	54.6
Chur	82.1	338	e 12 28	- 3	—	—	—	—
Florence	84.3	334	i 12 38	- 6	23 14	+ 3	—	54.6
Moncalieri	84.3	337	(e 12 5)	-39	(23 21)	+10	(44.0)	(67.6)
Rocca di Papa	85.7	332	e 12 35	-17	e 25 22	+115	—	—
Tortosa	N. 90.0	341	—	—	24 0	-14	e 47.6	59.3
Toledo	91.9	345	—	—	—	—	e 45.8	55.5
Rio Tinto	94.4	345	54 34	?L	—	—	(54.6)	68.6
Granada	94.5	342	—	—	—	—	55.1	57.2
Malaga	E. 95.0	343	—	—	—	—	e 53.3	60.8
San Fernando	E. 95.6	344	—	—	—	—	—	62.6

Additional readings and notes: Mizusawa SN = +5m.2s. Osaka MN = +12.1m. Irkutsk PR₁ = +7m.39s., MN = +19.7m., MZ = +21.2m.
 Ekaterinburg SR₁ = +20m.40s., MZ = +35.2m. Simla eE = +32m.40s.
 (?L). Leningrad iP = +10m.41s., PR₁ = +14m.37s., PS = +19m.36s.,
 eSR₁ = +23m.39s., SR₂ = +26m.29s., MNZ = +40.3m. Pulkovo PR₁ = +14m.30s. = PR₂ - 29s., SR₁ = +23m.40s., SR₂ = +26m.22s., MN = +40.4m., MZ = +42.9m. Kucino PR₂ = +14m.37s., SR₁ = +23m.40s., SR₂ = +26m.40s., MN = +40.8m. Upsala ME = +45.1m. Baku MZ = +45.5m., MN = +45.6m. Makeyevka e = +21m.36s. = [S] + 20s., MN = +44.9m., MZ = +46.7m. Hamburg MN = +48.6m. Chicago eSR₁E = +25m.46s. De Bilt MZ = +51.0m., MN = +53.4m. Ottawa e = +30m.40s. Graz SR₁ = +27m.14s. and +32m.48s., MN = +54.7m. Paris MN = +57.6m. Moncalieri readings have been increased by 10m. Tortosa SE? = +22m.34s. Toledo MNW = +56.5m. Granada readings have been increased by 1h. San Fernando MN = +62.1m.

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Nov. 2d. 22h. 58m. 54s. Epicentre 46°·0N. 154°·0E. (as at 21h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 11·7	239	3 1	+ 6	4 53	-19	—	—
Irkutsk	32·4	300	e 6 11	-41	e 12 8	- 6	18·1	—
Ekaterinburg	54·5	319	19 32	- 4	—	—	27·1	34·0
Leningrad	64·5	332	—	—	—	—	33·7	43·7
Pulkovo	64·7	332	—	—	—	—	35·1	40·8
Baku	70·3	309	e 11 20	+ 1	—	—	36·6	44·5
De Bilt	78·3	341	—	—	—	—	e 44·1	—
Vienna	z. 78·8	333	e 12 8	- 4	—	—	—	—
Uccle	79·7	341	—	—	—	—	e 43·1	—
Zurich	81·8	338	e 12 23	- 6	23 55	?PS	—	—
Florence	84·3	334	—	—	—	—	e 48·1	54·1
Granada	94·5	342	—	—	—	—	e 40·6	43·5

Additional readings: Ekaterinburg MZ = +35·1m. Leningrad MZ = +42·9m. Pulkovo MN = +44·0m. Baku MN = +45·3m., MZ = +45·4m. Zurich S is given as e simply.

Nov. 2d. Readings also at 0h. (Taihoku), 4h. (Nagasaki), 7h. (near La Paz), 10h. (Manila), 11h. (Rocca di Papa), 17h. and 19h. (Hong Kong), 22h. (Nagasaki and La Paz).

Nov. 3d. 17h. 59m. 42s. Epicentre 36°·0N. 5°·0W. (as on 1926 Aug. 18d.).

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 9	- 5	(0 19)	- 6	0·3	—
San Fernando	1·0	296	0 24	+ 9	—	—	—	—
Granada	1·6	43	10 23	- 1	0 45	0	0·8	1·0
Almeria	2·3	67	0 53	+17	11 20	+17	1·4	2·0

Granada gives also i = +31s.

Nov. 3d. 18h. 34m. 30s. Epicentre 14°·0S. 174°·0W. (as on 1926 Oct. 5d.).

A = -965, B = -101, C = -242; D = -105, E = +995;
G = +241, H = +025, K = -970.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	2·2	86	0 35	+ 1	(1 2)	+ 2	1·0	3·5
Wellington	29·0	198	—	—	e 10 30?	-47	—	—
Riverview	37·2	232	—	—	e 13 30	+ 3	—	21·9
Honolulu	N. 38·7	24	—	—	e 13 42	- 6	e 17·5	20·0
Nagasaki	71·1	314	20 26	?S	(20 26)	-13	—	—
Tucson	76·0	51	11 33	-22	e 21 47	+10	e 35·6	—
Victoria	76·9	32	21 48	?S	(21 48)	0	36·3	40·5
Irkutsk	96·1	322	13 37	-13	24 57	-20	42·5	—
Chicago	96·7	49	—	—	—	—	e 43·2	58·0
La Paz	100·7	110	—	—	—	—	53·6	59·3
Sucre	102·5	114	—	—	—	—	56·5	60·6
Toronto	102·9	48	e 22 45	?PR ₂	—	—	48·8	—
Ottawa	105·7	46	e 11 48	?	i 24 57	[+ 6]	e 48·5	—
Ekaterinburg	120·6	329	e 20 23	?PR ₁	e 25 59	[+13]	48·5	63·4
Leningrad	130·7	344	e 21 32	?PR ₁	—	—	63·9	—
Pulkovo	130·9	344	e 18 15	[-65]	e 22 17	?PR ₁	67·5	72·0
Kucino	131·5	335	e 22 44	?PR ₁	—	—	e 62·6	70·4
Makeyevka	136·9	329	e 22 30?	?PR ₁	e 34 40	?	76·5	—
Edinburgh	137·5	7	—	—	—	—	e 75·5	—
De Bilt	141·9	1	—	—	—	—	e 70·5	82·8
Kew	142·2	6	—	—	—	—	e 69·5	—
Uccle	143·2	3	—	—	—	—	e 67·5	—
Vienna	z. 144·7	350	e 19 40	[- 7]	—	—	—	—
Florence	149·9	352	e 40 30	?SR ₁	—	—	—	108·5
San Fernando	155·0	24	—	—	—	—	79·0	97·5

Additional readings: Riverview MN = +30·2m. Irkutsk S₁PS = +24m.11s. PS = +26m.18s. Toronto LE = +52·5m. Ottawa eE = +27m.48s., e = +33m.50s. = SR₁ + 1s. Ekaterinburg e = +27m.23s. and +30m.26s. = PS - 24s. Pulkovo MZ = +71·1m. Kucino e = +25m.5s. = PR₁ - 9s., +28m.28s. = PR₂ + 40s., +31m.45s., +39m.14s. = SR₁ + 6s., +42m.37s., and +53m.14s. San Fernando MN = +85·5m.

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Nov. 3d. Readings also at 0h. (Ekaterinburg, Baku, Irkutsk (2), and Pulkovo), 1h. (Irkutsk), 2h. (Baku, Ekaterinburg, and Irkutsk), 3h. (Irkutsk), 4h. (Baku), 5h. (Baku and Irkutsk), 8h. (Nagasaki), 12h. (Nagasaki, near Chur, and Zurich), 13h. (Azores and Nagasaki), 15h. (Ekaterinburg, Irkutsk, Nagasaki, and Mizusawa), 16h. (Irkutsk), 17h. (Christchurch and near Athens), 19h. (Sucre), 20h. (Moncalieri), 21h. (Sucre and La Paz).

Nov. 4d. Readings at 1h. (Ekaterinburg), 3h. (Ekaterinburg and Irkutsk), 6h. Riverview, near Kobe, and Sumoto), 8h. (Irkutsk), 11h. (2) and 13h. (Nagasaki), 14h. (Leningrad), 17h. (Irkutsk), 18h. (near Amboina).

Nov. 5d. 7h. 55m. 33s. Epicentre 12°3N. 85°8W.

(as on 1925 Oct. 5d.).

A = +.072, B = -.974, C = +.213 ; D = -.997, E = -.073 ;
G = +.016, H = -.212, K = -.977.

A depth of focus 0.020 has been assumed as on 1925 Oct. 5d.

This earthquake shook Managua, the capital of Nicaragua, in lat. 12°N. 86°5W.. and was felt by two ships in lat. 10° long. 88°W. See note in introduction to this number).

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	-0.1	7.0	117	1 44	-1	3 24	+17	4.2	5.3
Merida	-0.2	9.4	338	2 5	-14	(3 41)	-27	3.7	4.3
Oaxaca	-0.3	11.6	296	1 21	-88	3 7	-115	3.3	3.4
Vera Cruz	-0.3	12.1	306	0 27	-149	—	—	2.9	5.7
Puebla	-0.4	13.7	301	2 36	-41	4 52?	-59	—	5.6
Port au Prince	-0.5	14.4	63	1 3 45	+20	—	—	9.5	10.6
Tacubaya	-0.5	14.7	300	3 5	-24	5 45	-28	6.0	6.9
Loyola	N. -0.7	18.1	348	1 3 49	-21	1 7 6	-21	9.0	9.7
Guadalajara	-0.7	19.0	299	4 30	+9	(7 51)	+4	7.9	10.6
Manzanillo	-0.7	19.1	293	3 40	-42	—	—	—	—
San Juan	-0.8	19.9	70	4 41	+11	1 8 28	+24	9.8	16.6
Mazatlan	-0.9	22.4	302	3 5	-114	6 58	-117	7.0	—
St. Louis	E. -1.2	26.6	352	e 5 30	-12	1 9 51	-20	e 10.5	11.9
Cheltenham	-1.3	27.6	15	1 5 45	-6	1 10 20	-8	e 14.0	17.6
Chicago	-1.4	29.5	357	5 39	-30	1 10 15	-46	14.0	—
Ann Arbor	-1.4	30.0	4	1 5 57	-17	e 9 57	-73	e 11.8	13.0
Fordham	-1.4	30.4	18	6 9	-9	11 7	-10	14.8	19.8
Tucson	-1.4	30.5	315	5 58	-21	10 33	-46	e 16.0	30.0
Ithaca	-1.4	31.2	14	6 13	-13	11 9	-22	14.4	—
Toronto	E. -1.5	31.8	10	1 6 17	-14	1 11 17	-22	i 14.2	15.4
	N. -1.5	31.8	10	1 6 18	-13	1 11 22	-17	—	15.7
Denver	E. -1.5	32.2	333	e 7 13	+38	1 12 11	+25	13.8	16.0
	N. -1.5	32.2	333	e 7 13	+38	e 12 9	+23	14.3	15.4
Harvard	-1.5	32.6	20	1 6 34	-5	1 11 40	-13	e 15.4	24.4
La Paz	-1.5	33.7	150	1 6 45	-5	1 12 2	-9	15.3	18.4
Ottawa	-1.6	34.2	14	1 6 39	-14	1 11 57	-21	e 15.0	18.0
Sucre	-1.6	37.3	149	1 7 13	-6	1 12 54	-12	i 17.7	28.6
Halifax	-1.6	37.5	26	1 7 12	-9	1 12 53	-16	16.6	29.4
Ste. Anne	-1.6	37.5	18	1 7 11	-10	1 12 47	-22	e 16.4	23.4
Lick	-1.6	40.6	316	e 7 29	-17	e 13 18	-34	—	—
Berkeley	E. -1.6	41.4	316	e 7 35	-18	e 13 26	-37	e 16.8	—
	N. -1.6	41.4	316	e 7 37	-16	e 13 33	-30	e 16.8	—
	Z. -1.6	41.4	316	e 7 34	-19	—	—	—	—
Saskatoon	-1.8	43.2	343	1 8 1	-5	1 14 11	-16	i 19.1	21.4
Spokane	-1.9	44.1	331	1 7 50	-22	1 14 7	-31	e 17.4	21.8
Victoria	E. -2.0	47.7	328	8 26	-12	—	—	18.2	32.0
La Plata	-2.3	54.1	152	i 9 25	+6	1 16 58	+15	23.0	—
Sitka	-2.4	58.4	333	—	—	17 35	+1	e 29.4	29.8
Honolulu Un.	E. -2.6	69.0	290	i 10 58	+4	1 19 47	+5	e 28.1	32.4
Honolulu	N. -2.6	69.2	290	11 2	+7	19 47	+2	e 28.0	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Lisbon	-2.6	71.9	54	11 21	+ 8	—	—	—	34.2
Rio Tinto	-2.6	73.9	55	13 27?	+122	—	—	—	29.4
San Fernando	-2.6	74.4	56	11 40	+12	21 9	+21	33.0	44.0
Edinburgh	-2.6	75.7	36	11 42	+ 5	21 10	+ 7	35.4	42.7
Malaga	-2.6	75.8	55	i 11 45	+ 8	i 21 23	+19	31.1	43.6
Bidston	-2.6	75.8	39	11 13	-24	22 1	[+ 6]	27.4	34.8
Toledo	-2.6	75.9	52	i 11 43	+ 5	i 21 9	+ 3	e 32.7	42.4
Dyce	-2.6	76.2	34	—	—	i 22 6	[+ 8]	—	33.8
Stonyhurst	-2.6	76.2	39	11 44	+ 4	i 21 19	+10	35.4	41.0
Granada	-2.6	76.4	55	i 11 48	+ 7	i 21 28	+16	i 35.9	41.0
Almeria	-2.6	77.4	55	i 11 54	+ 6	i 21 35	+11	36.5	40.0
Kew	-2.7	77.6	40	i 11 50	+ 2	21 30	+ 5	33.4	44.4
Alicante	-2.7	78.7	53	11 57	+ 2	22 2	[-12]	37.8	43.0
Tortosa	E. -2.7	79.2	50	11 50	- 8	21 50	+ 7	37.3	43.3
Paris	-2.7	79.7	43	i 12 3	+ 2	e 21 54	+ 5	38.4	44.4
Bergen	-2.7	79.7	30	12 42	+41	—	—	34.4	44.4
Barcelona	-2.7	80.3	50	12 6	+ 1	i 22 5	+ 9	e 32.8	46.0
Uccle	-2.7	80.5	40	i 12 5	- 1	i 22 3	+ 5	e 37.4	44.5
De Bilt	-2.7	80.9	39	12 9	+ 1	22 7	+ 5	e 38.4	46.6
Algiers	-2.7	81.8	55	e 12 14	0	—	—	—	44.4
Besangon	-2.7	82.2	45	e 12 18	+ 2	e 23 12	[+34]	37.4	42.4
Strasbourg	-2.7	83.1	43	i 12 17	- 4	e 22 35	+ 7	e 34.4	48.0
Hamburg	-2.7	83.5	37	i 12 22	- 2	i 22 33	0	e 39.4	47.4
Moncalieri	-2.7	83.8	46	i 12 27	+ 1	i 22 33	- 3	33.5	46.9
Zurich	-2.7	83.9	45	e 12 18	- 8	i 22 31	- 6	—	—
Hohenheim	E. -2.7	84.0	42	e 12 25	- 2	e 22 35	- 3	e 37.0	40.1
	N. -2.7	84.0	42	i 12 16	-11	e 22 35	- 3	e 35.6	46.8
Ravensburg	E. -2.7	84.5	42	e 12 21	- 8	i 22 43	- 1	e 39.6	47.1
	N. -2.7	84.5	42	e 11 55	-34	—	—	e 35.8	36.8
Chur	-2.7	84.6	45	e 12 29	- 1	i 22 40	- 5	—	—
Potsdam	-2.7	85.6	37	i 12 33	0	i 23 43	- 9	40.4	49.9
Innsbruck	N.W. -2.7	85.8	43	e 12 33	- 4	—	—	e 42.5	43.6
Cheb	-2.7	85.8	40	e 12 33	- 4	i 22 47	-11	e 36.4	46.4
Upsala	E. -2.7	86.0	30	e 12 33	- 5	i 22 53	- 7	e 40.0	52.4
Florence	-2.7	86.5	47	i 12 45	+ 4	22 47	-20	41.0	45.9
Venice	-2.7	86.8	45	i 12 43	0	22 52	-17	—	—
Rocca di Papa	E. -2.8	88.0	49	e 12 44	- 5	e 22 50	-31	37.2	—
	N. -2.8	88.0	49	e 12 48	- 1	e 23 2	-19	—	—
Graz	-2.8	89.5	41	i 12 46	- 6	i 23 5	-22	37.4	50.1
Vienna	-2.8	89.8	40	e 12 48	- 5	i 23 6	-24	e 37.4	55.4
Apia	-2.8	89.1	259	e 17 25	? PR ₁	(23 13)	[-10]	42.0	43.8
Zagreb	-2.8	89.2	43	e 12 52	- 3	e 24 8	+34	e 41.4	47.4
Naples	-2.8	89.3	49	e 11 37	-79	e 19 27	? PR ₂	41.4	64.4
Fompeii	-2.8	89.6	49	e 12 41	-17	e 22 1	-98	43.4	50.4
Budapest	-2.8	90.7	41	e 2 27?	?	—	—	e 24.4	50.1
Pulkovo	-2.8	91.8	27	i 13 2	- 8	23 20	[-19]	—	45.6
Belgrade	-2.8	92.5	44	e 13 17	+ 3	e 23 26	[-17]	e 42.1	53.3
Lemberg	-2.8	93.0	39	e 13 15	- 2	e 25 39	? PS	e 53.6	56.4
Athens	-2.8	97.1	49	e 12 51	-49	i 23 51	[-17]	e 43.6	46.6
Kucino	-2.8	97.4	29	13 27	-14	24 43	-19	41.4	43.9
Makeyevka	-2.8	101.8	36	e 13 35	- 30	24 15	[-18]	46.4	59.0
Wellington	—	105.1	231	e 17 57	[- 8]	i 25 17	[+29]	e 43.4	51.0
Ekaterinburg	—	105.5	20	i 14 5	-32	24 26	[-24]	39.4	54.3
Helwan	—	106.3	55	e 14 12	-19	24 39	[-14]	—	61.6
Christchurch	—	106.8	229	e 14 27	-16	25 39	[+43]	51.4	69.4
Cape Town	—	108.6	122	e 18 53	[+35]	28 33	? PS	—	60.0
Baku	—	113.2	35	14 43	-29	25 6	[-15]	—	68.7
Irkutsk	—	114.9	353	e 14 47	-33	26 19	[+50]	54.4	71.9
Osaka	—	118.9	320	e 18 16	[-34]	27 30	-71	38.3	—
Riverview	—	124.2	237	e 19 20	[+16]	—	—	e 57.4	60.6
Melbourne	—	128.3	230	e 18 15	[-60]	—	—	i 60.2	67.4
Stmia	—	133.6	20	21 27	? PR ₁	31 51	?	—	66.2
Adelaide	—	134.0	232	e 19 13?	[-15]	33 27	?	65.2	78.0
Taihoku	E. -2.8	134.2	323	—	—	—	—	e 58.4	—
Hong Kong	—	140.2	330	21 52	? PR ₁	—	—	40.5	—
Bombay	—	142.4	34	19 23	[-21]	—	—	—	—
Calcutta	E. -2.8	144.7	9	19 31	[-17]	—	—	—	—
Phu-Lien	—	144.8	339	e 19 27?	[-21]	—	—	—	—
Amboina	—	145.3	280	i 22 45	? PR ₁	—	—	—	—
Hyderabad	—	146.4	28	19 33	[-17]	—	—	—	93.6
Kodaikanal	—	152.0	37	e 23 39	? PR ₁	—	—	—	—
Colombo	—	156.1	37	13 2	[-421]	24 27	? PR ₂	—	115.0
Batavia	—	166.1	295	i 19 55	[-17]	—	—	84.6	—

For Notes see next page.

NOTES TO NOV. 5d. 7h. 55m. 33s.

Additional readings: Loyola iN = +4m.25s., iSR₁N? = +7m.42s.; T₀N = 7h.55m.16s. San Juan iPR₁E = +5m.3s., PR₁N = +5m.16s., iSR₁E = +9m.21s.; T₀ = 7h.55m.24s. and 7h.55m.30s. St. Louis iPR₁E = +6m.6s., PR₂ = +6m.24s. Cheltenham SR₁ = +11m.9s.; T₀ = 7h.55m.17s. and 7h.55m.32s. Chicago iPR₁N = +6m.28s., ePR₁E? = +6m.38s., P₀PN = +8m.17s., SR₁E? = +11m.35s., SR₁N? = +11m.38s., SR₁N = +12m.49s.; T₀ = 7h.55m.9s. and 7h.55m.25s. Ann Arbor eSR₁ = +10m.39s. = S - 31s., MN = +12.2m.; T₀ = 7h.56m.24s. Fordham PR₁ = +6m.45s., SR₁ = +13m.49s.; T₀ = 7h.55m.16s. Tucson PE = +6m.3s., PN = +6m.4s., and +6m.9s., PR₁E? = +7m.0s. and PR₁N? = +7m.9s., eSN? = +10m.42s., SR₁N? = +11m.31s., eSR₁? = +11m.54s. Denver iP = +7m.18s. Harvard PR₁ = +7m.18s., PR₁E? = +7m.45s., iPR₁N? = +7m.47s., iScS = +12m.35s., eSR₁N = +13m.45s.?, eSR₁E = +13m.57s.?, MN = +21.0m. La Paz iPE = +6m.46s., iPN = +6m.47s., PR₂ = +8m.47s., i = +9m.57s. and +12m.57s., SR₂ = +14m.2s., MN = +17.8m.; T₀ = 7h.55m.36s. Ottawa SR₂ = +13m.37s. = SR₁ - 27s., MN = +23.3m.; T₀ = 7h.55m.30s. Sucre i = +7m.47s., +9m.41s., and +10m.17s., PR₂ = +8m.44s., PR₃ = +9m.27s., iSR₁ = +13m.56s., iSR₂ = +15m.39s., eSR₁ = +16m.57s.; epicentre 13°-0N, 87°-8W. Halifax i = +8m.43s. = PR₁ + 10s.; T₀ = 7h.55m.34s. Ste. Anne i = +8m.41s. = PR₁ + 8s. and +15m.29s. = SR₁ + 11s., T₀ = 7h.55m.40s. Lick iPN = +7m.32s. Saskatoon PR₂ = +9m.49s. = PR₁ + 11s., iSR₂ = +17m.35s. = SR₁ + 19s.; T₀ = 7h.55m.47s. Spokane iPR₁E = +9m.38s., iPR₁E = +9m.57s., SR₁N = +17m.4s., and several 1 readings. Sitka ePR₁E? = +14m.11s. = PR₁ + 27s., SR₁N? = +23m.57s., and several e readings. Honolulu University P₀PE = +11m.36s., ePR₁E = +13m.57s., iPSE = +20m.47s., SR₁E? = +23m.51s., eSR₁E = +27m.27s.; T₀ = 7h.55m.43s. and 7h.55m.47s. Honolulu iN? = +12m.10s., eN = +12m.27s., and +20m.6s., iPSN = +20m.42s., SR₁N = +24m.23s., iN = +25m.7s., SR₂N? = +27m.35s. Toledo PR₁ = +14m.29s., PR₂ = +17m.1s. = PR₁ - 24s., MNW = +40.6m. Stonyhurst PR₁ = +14m.38s., PR₂ = +18m.5s., SR₁ = +26m.42s. Granada PR₁ = +13m.52s., PR₂ = +16m.44s., SPS = +21m.41s., PS = +22m.28s., and many other 1 readings. Almeria PR₁ = +14m.17s., PR₂ = +17m.13s., PS = +22m.39s., MZ = +44.2m. Kew PR₁ = +14m.50s., MN = +34.3m. Tortosa MN = +46.2m. Paris PR₁ = +15m.45s., MN = +41.4m. Barcelona MN = +43.8m. Ucle iPR₁ = +15m.16s. De Bilt PR₁ = +15m.17s., MN = +45.7m., MZ = +45.9m. Strasbourg MN = +45.4m. Hamburg eLN = +36.4m. Moncalieri MN = +44.4m. Hohenheim iN = +12m.35s., eE = +13m.13s., ePR₁E = +15m.43s., iPR₁N = +15m.53s., e = +16m.20s., ePR₂ = +17m.33s., ePS = +23m.31s., ePPSE = +24m.23s., eSR₁E = +28m.43s. Ravensburg iPSE = +23m.35s., iPSN = +23m.41s., iPPS = +24m.37s. Innsbruck iPNE = +12m.38s., iNW = +13m.14s. and +13m.58s., eNW = +15m.37s., +15m.56s. = PR₁ - 19s., and +16m.49s., iNE = +13m.35s., eNE = +14m.43s., and +38m.40s., eLNE = +36.4m. Cheb iPR₁? = +16m.2s. Upsala iPR₁ = +15m.57s., eSR₁ = +28m.42s., eLN = +36.0m., MN = +52.2m. Florence PR = +13m.27s. and +16m.57s. = PR₁ + 37s. Venice +24m.17s. = PS - 11s. Graz iPR₁ = +16m.26s. Vienna iPZ = +12m.50s., PR₁ = +15m.50s., PR₂ = +18m.42s., PS = +23m.56s., PPS = +24m.6s., SR₁ = +28m.5s., SR₂? = +34m.47s. Apia gives S as L. Zagreb i = +24m.27s.? = PS - 30s. and +26m.35s. Budapest MN = +52.1m. Pulkovo iPR₁ = +16m.47s., PPS = +25m.31s., SR₁ = +30m.3s., SR₂ = +34m.57s. = SR₁ + 32s., MN = +52.4m., MZ = +54.0m. Belgrade PR₁ = +17m.0s. and +18m.10s., and many other e readings. Athens PR₁E = +17m.29s. Kucino PR₁ = +17m.22s., e = +18m.8s., S₀P₀S = +23m.50s., PPS = +26m.26s. Makeyevka PR₁ = +17m.59s., PPS = +27m.33s., SR₁ = +32m.7s., MN = 58.4m. Wellington i[S] = +24m.30s., SR₁ = +35m.12s., SR₂ = +41m.34s. = SR₁ - 16s. Ekaterinburg iPR₁ = +18m.24s. iPR₂ = +20m.49s., MN = +51.5m., MZ = +68.2m. Helwan PR₁ = +18m.42s. Christchurch PR₁ = +18m.9s. = [P] - 2s., ScP₀S = +24m.21s., SR₁ = +34m.15s., SR₂ = +39m.9s. Baku PR₁ = +19m.25s., PPS = +30m.1s. Irkutsk PR₁ = +19m.28s., PS = +28m.58s., MZ = +71.6m. Riverview ePR₁ = +21m.1s. = PR₁ + 11s., and +27m.32s. = PR₂ + 58s., PS = +30m.32s. = PS - 54s., and +32m.19s. = PS + 53s., eSR₁ = +37m.52s. = SR₁ + 14s., and +38m.13s. = SR₁ - 35s., eSR₂ = +42m.1s. = SR₂ - 80s., and +42m.11s. = SR₁ - 70s., eSR₃ = +46m.19s. = SR₂ - 69s., and +46m.27s. = SR₁ - 66s., MN = +70.6m. Melbourne i = +30m.39s. and +36m.39s. Simla SN = +33m.27s., MN = +68.2m. Adelaide PR₁ = +22m.27s., SR₁ = +49m.42s. = SR₂ - 24s., MN = +73.4m. Calcutta PN = +19m.21s. = [P] - 27s. Colombo: Are the readings 7 min. too small? Batavia i = +19m.59s., and +24m.48s. = PR₁ - 25s., L = +58.1m.

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Nov. 5d. 11h. 17m. 36s. Epicentre 36°-0N. 5°-0W. (as on Nov. 3d.).

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 18	+ 4	0 30	+ 5	—	0.6
Granada	1.6	43	1 0 34	+10	e 0 45	0	—	0.8
Almeria	2.3	67	0 20	-16	1 0 38	-25	e 0.7	1.4

Granada P is given as i simply. Almeria gives also i = +28s., MN = +1.2m.

Nov. 5d. 19h. 5m. 15s. Epicentre 37°-5N. 142°-5E. (as on 1925 Aug. 31d.).

A = -.630, B = +.483, C = +.609; D = +.609, E = +.793;

G = -.483, H = +.370, K = -.793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2.0	327	0 35	+ 4	1 4	+ 9	—	—
Nagoya	5.1	244	e 1 26	+ 7	(2 18)	- 2	2.3	2.4
Osaka	6.3	248	1 27	- 9	(2 32)	-20	2.5	3.4
Kobe	6.6	247	—	—	—	—	—	2.7
Baku	68.5	306	—	—	—	—	e 41.8	—

Mizusawa SN = +1m.6s.

Nov. 5d. Readings also at 0h. (Ekaterinburg, Baku, Makeyevka, and Kucino), 1h. (La Paz (2), Ekaterinburg, and Sucre), 3h. (Sucre), 5h. (Taihoku), 8h. (Granada), 9h. (Sucre), 10h. (Leningrad), 11h. and 14h. (Nagasaki), 16h. (Irkutsk and Pulkovo), 19h. (La Paz, La Plata, and Sucre), 21h. (Taihoku).

Nov. 6d. 9h. 19m. 55s. Epicentre 3°-0S. 157°-0E.

A = -.911, B = +.387, C = -.139; D = +.391, E = +.921;

G = +.128, H = -.054, K = -.990.

A focal depth 0.015 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	-0.7	23.1	118	i 4 41	-29	e 8 41	-32	e 9.6	—
Riverview	-0.8	28.4	191	e 5 48	+ 4	e 10 18	+ 4	e 13.6	18.0
Sydney	-0.8	28.4	191	(6 13)	+29	—	—	(22.6)	(27.1)
Adelaide	-1.1	31.8	209	—	—	11 25	-21	14.5	17.8
Melbourne	-1.1	31.8	198	e 8 47	+132	i 11 41	- 5	—	—
Wellington	-1.2	38.9	157	i 9 12	+113	16 0	+174	e 20.4	24.3
Manila	-1.4	42.3	302	—	—	(i 14 5)	-15	i 14.1	—
Perth	-1.4	45.0	232	14 0	?	14 45	-11	22.3	—
Batavia	-1.5	49.8	270	i 9 47	+51	i 15 42	-16	—	—
Hong Kong	-1.5	51.7	307	10 54	?PR ₁	—	—	—	—
Zi-ka-wei	-1.6	51.9	322	9 4	- 5	e 22 40	?SR ₂	28.5	—
Honolulu	n. -1.6	53.0	58	—	—	—	—	23.3	28.3
Honolulu Un.	e. -1.6	53.1	58	—	—	—	—	e 24.3	28.8
Phu-Lien	-1.7	57.2	301	e 9 40	- 3	e 17 29	+ 1	26.1	—
Irkutsk	-2.0	75.1	330	e 11 38	+ 1	—	—	—	—
Bombay	-2.1	87.1	290	—	—	e 23 11	- 8	—	—
Victoria	-2.1	89.2	41	23 38	?S	(23 38)	- 4	41.6	—
Ekaterinburg	-2.2	100.2	327	e 13 41	-19	25 11	-25	41.1	58.7
Baku	—	108.2	310	e 18 43	[+27]	e 26 23	-49	e 50.1	61.2
Kucino	—	112.7	328	—	—	e 25 23	[+ 2]	50.2	57.1
Chicago	n. —	114.2	48	—	—	—	—	e 58.6	—
Leningrad	—	114.6	334	—	—	—	—	54.0	85.2
Pulkovo	—	114.7	334	e 19 58	?PR ₁	—	—	55.1	—
Makeyevka	—	115.1	320	—	—	e 26 42	[+73]	e 56.1	—
Toronto	n. —	119.5	43	—	—	—	—	59.6	—
Ottawa	—	121.4	41	e 20 31	?PR ₁	e 25 56	[+ 7]	e 54.1	—
Cape Town	—	122.6	220	—	—	—	—	—	66.4
La Paz	—	129.1	119	19 18	[+ 2]	i 22 44	?PR ₂	—	—
De Bilt	—	130.3	337	—	—	—	—	e 60.1	—
Sucre	—	130.4	124	19 14	[- 5]	22 35	?	23.5	24.4
Uccle	—	131.6	337	—	—	—	—	e 60.1	—

For Notes see next page.

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NOTES TO NOV. 6d. 9h. 19m. 55s.

Additional readings and notes: Suva readings are given as i and e simply.
 Riverview eS = +10m.32s. and +10m.41s. = SR₁ - 27s., MN = +21.5m.,
 MZ = +24.5m. Sydney readings have all been increased by 12m. Adelaide
 PR₂ = +7m.20s. = PR₁ - 8s., MN = +18.2m. Wellington i = +12m.35s.,
 MN = +22.6m. Perth S = +18m.51s. = SR₂ - 11s., true S given as P f
 Batavia readings are given as i simply. Zi-ka-wei PR₁ = +10m.24s.
 Victoria SE = +30m.3s. = SR₁ + 12s. Ekaterinburg i = +24m.21s. =
 [S] + 8s., MN = +50.3m. Baku MN = +56.7m. Kucino e = +26m.53s.,
 +29m.7s. = PS - 21s. and +35m.5s. = SR₁ - 12s. Chicago LE = +63.6m.
 Leningrad MZ = +84.8m. Toronto eE = +53m.35s. Ottawa e =
 +30m.16s. = PS - 43s.

Nov. 6d. 9h. 53m. 22s. Epicentre 8°-0S. 157°-0E. (as on 6d. 9h. 19m.).

The depth of focus .015 has been retained.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Riverview	-0.8	26.4	191	e 5	52	+ 8	e 10	15	+ 1	e 13.5	15.3		
Adelaide	-1.1	31.8	209	—	—	—	e 11	28	-18	16.0	18.8		
Melbourne	-1.1	31.8	198	—	—	—	e 12	32	+46	—	14.9		
Wellington	-1.2	38.9	157	—	—	—	e 11	33	-93	—	—		
Manila	-1.4	42.3	302	—	—	—	—	—	—	i 12.6	—		
Perth	-1.4	45.0	232	—	—	—	(14 43)	—	-13	(20.0)	—		
Batavia	-1.5	49.8	270	e 10	20	? PR ₁	i 14	45	-73	—	—		
Zi-ka-wei	-1.6	51.9	322	—	—	—	—	—	—	—	—	29.6	
Honolulu	-1.6	53.0	56	—	—	—	—	—	—	e 27.2	—		
Honolulu Un. E.	-1.6	53.1	56	—	—	—	—	—	—	e 27.6	44.3		
Phu-Lien	-1.7	57.2	301	e 9	38	- 5	e 17	28	0	26.0	—		
Irkutsk	-2.0	75.1	330	e 20	1	? S	(e 20 1)	—	-62	39.6	—		
Victoria	-2.1	89.2	41	—	—	—	—	—	—	—	—	59.8	
Ekaterinburg	—	100.2	327	—	—	—	i 24	25	[0]	39.6	—	58.9	
Baku	—	108.2	310	—	—	—	—	—	—	—	—	58.4	
Kucino	—	112.7	328	—	—	—	—	—	—	—	—	53.6	73.1
Ottawa	—	121.4	41	—	—	—	—	—	—	—	—	80.6	—
San Fernando E.	—	147.7	334	—	—	—	—	—	—	—	—	—	77.1

Additional readings and notes: Riverview eS = +10m.40s., +10m.45s., and
 +12m.29s., MZ = +15.2m., MN = +17.0m. Adelaide MN = +34.2m.
 Perth PR₁ = (+10m.3s.) = -3s.; all readings have been diminished by 4 min.
 Batavia readings are given as e and i simply. Ekaterinburg MN =
 +49.9m., MZ = +58.8m. Baku MN = +57.0m., MZ = +59.0m. San
 Fernando MN = +105.6m.

Nov. 6d. 21h. 0m. 30s. Epicentre 35°-5N. 2°-5W. (as on 1926 Oct. 19d.).

A = +.813, B = -.036, C = +.581; D = -.044, E = -.999;
 G = +.580, H = -.025, K = -.814.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	m.	s.	m.	s.	m.	s.		
Almeria	1.4	1	i 0	23	+ 2	i 0	48	+ 9	10.9	0.9		
Granada	1.9	332	0	18	-11	0	48	-5	—	1.4		
Malaga	2.0	308	i 0	21	-10	0	45	-10	—	0.8		
San Fernando	3.1	288	1	11	+22	1	40	+14	—	—		
Alicante	3.2	30	2	0	? S	(2 0)	—	+32	—	2.9		
Toledo	4.5	340	—	—	—	i 1	58	-6	12.6	3.0		
Uccle	16.1	16	—	—	—	—	—	—	—	e 8.1	—	
De Bilt	17.4	16	—	—	—	—	—	—	—	e 9.5	10.5	

Additional readings: Almeria PR₂ = +36s., MN = +1.4m. Granada P =
 +35s., i = +56s., SR₁ = +1m.2s. Toledo i = +2m.17s., IS = +2m.29s.,
 MNW = +2.8m. Alicante S = +2m.30s.

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Nov. 6d. 21h. 8m. 36s. Epicentre 4°·5S. 131°·0E. (as on 1926 Nov. 2d.).

A = -·654, B = +·752, C = -·078; D = +·755, E = +·656;
G = +·051, H = -·059, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	2·9	286	12 12	+87	12 36	+76	—	—
Batavia	24·1	267	15 26	- 3	i 9 38	- 8	—	—
Irkutsk	61·2	342	e 10 20	0	—	—	e 36·4	—
Ekaterinburg	83·3	329	i 12 38	0	e 23 2	+ 2	37·9	—
Baku	86·2	311	—	—	—	—	43·4	—
Sucre	151·6	146	20 27	[+29]	—	—	—	—

Baku readings are given as i.

Nov. 6d. Readings also at 2h. (near Mizusawa and near Victoria), 3h. (Nagasaki), 4h. (Nagasaki and Baku), 5h. (Ekaterinburg and near Mizusawa), 8h. (La Paz), 10h. (Ekaterinburg, Phu-Lien, La Paz (3), and Riverview), 13h. (Merida and Mizusawa), 15h. (La Paz and Sucre), 16h. (near Sucre, La Paz, and near Irkutsk), 17h. (Irkutsk, Ekaterinburg, near La Paz, Sucre, and near Mizusawa), 18h. (Baku), 20h. (near Malaga), 22h. (near Granada).

Nov. 7d. 16h. 1m. 35s. Epicentre 3°·0S. 143°·5E. (as on 1926 Sept. 15d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	28·4	309	e 5 59	-13	—	—	—	—
Riverview	31·7	168	e 6 55	+11	e 11 49	-14	e 13·9	17·8
Adelaide	32·3	188	(6 44)	-7	i 11 25	-48	i 15·2	22·7
Melbourne	34·8	178	e 12 13	?S	(e 12 13)	-39	17·8	18·8
Batavia E.	36·7	264	17 30	+ 2	i 13 45	+25	—	—
Perth	38·9	219	—	—	e 14 52	+15	19·7	20·0
Irkutsk	64·4	335	e 10 33	- 8	19 3	—	31·4	—
Ekaterinburg	88·6	328	12 49	-19	i 23 23	[+ 4]	38·4	46·3
Baku	94·7	311	e 13 13	-29	e 24 23	[+28]	44·4	55·2
Kucino	101·2	327	—	—	—	—	e 47·7	—
Leningrad	104·0	331	e 29 54	?	—	—	49·2	—
Pulkovo	104·1	331	e 29 50	?	—	—	53·4	—
De Bilt	120·0	332	—	—	—	—	e 55·4	—
Uccle	121·2	331	—	—	—	—	e 55·4	—
Kew	122·9	334	—	—	—	—	e 60·4	—
Toronto E.	124·4	37	—	—	—	—	68·4	—
Ottawa	125·5	33	—	—	e 28 3	-87	58·4	—
La Paz	143·1	123	19 52	[+ 7]	—	—	—	—
Sucre	144·2	128	19 48	[+ 1]	—	—	—	—

Additional readings: Riverview MN = +17·9m. Adelaide P = +5m.0s.;
P in text given as PR₁; MN = +19·9m. Melbourne iS = +16m.13s.
Perth SR₁ = +16m.25s., +17m.27s., and +18m.25s. Baku ePR₁ =
+17m.1s., MN = +57·0m., MZ = +65·8m. Ottawa e = +38m.32s. =
SR₁ +37s. Sucre i = +20m.36s.

Nov. 7d. 22h. 7m. 30s. Epicentre 8°·0N. 103°·0W.

A = -·223, B = -·965, C = +·139; D = -·974, E = +·225;
G = -·031, H = -·136, K = -·990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	12·0	17	5 30	?S	(5 30)	+11	5·9	6·3
Tucson E.	25·3	344	e 5 39	- 2	10 12	+ 3	13·3	16·1
Ottawa N.	25·3	344	e 5 42	+ 1	10 10	+ 1	14·9	15·8
Ottawa	44·2	28	—	—	e 15 0	- 5	e 22·5	—
San Fernando E.	90·7	54	—	—	—	—	—	68·5
Uccle	94·5	38	—	—	—	—	e 66·5	—
De Bilt	94·6	36	—	—	—	—	e 60·5	—
Pulkovo	102·8	22	—	—	—	—	e 84·5	—
Ekaterinburg	113·8	10	—	—	—	—	e 65·8	—
Baku	125·6	25	—	—	—	—	e 64·1	—

Additional readings: San Fernando MN = +67·5m, De Bilt eL = +67·5m.
Ekaterinburg L = +80·5m.

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Nov. 7d. Readings also at 4h. and 6h. (Vera Cruz), 10h. (Zagreb), 12h. (Taihoku), 14h. (Baku and Victoria), 17h. (Batavia and Malaga), 18h. (La Paz and Manila), 19h. (near Port au Prince), 23h. (Ottawa).

Nov. 8d. Readings at 4h. (near Toyooka), 5h. and 6h. (Nagasaki), 7h. (near La Paz and Sucre), 9h. (Lick), 11h. (Ekaterinburg), 13h. (Manila, Amboina, Baku, Ekaterinburg, and Riverview), 19h. (Merida), 21h. (Batavia and near Malabar), 22h. (Ottawa and Toronto).

Nov. 9d. 3h. 57m. 0s. Epicentre 6°08. 99°0E. (as on 1917 April 16d.).

A = -0.156, B = +0.982, C = -0.105; D = +0.988, E = +0.156;
G = +0.016, H = -0.103, K = -0.995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	7.7	91	11 58	+ 1	12 42	-47	—	—
Malabar	8.6	99	1 55	-15	e 3 12	-41	—	—
Manila	30.0	47	e 5 37	-51	—	—	10.0	—
Nagasaki	48.6	35	15 52	?S	(15 52)	- 9	—	—
Melbourne	52.3	134	3 0	?	—	—	—	26.5
Riverview	55.6	129	—	—	e 21 30	?SR ₁	e 24.1	28.3
Irkutsk	58.5	4	10 6	+ 4	e 18 20	+15	e 31.0	—
Baku	64.7	321	(e 10 27)	-16	(e 23 32)	?SR ₁	(e 36.0)	(52.4)
Pulkovo	84.8	332	—	—	—	—	e 53.0	—
Leningrad	84.9	332	—	—	—	—	e 54.0	—

Additional readings and notes: Batavia P and S are given as iE and iN respectively. Riverview MN = +26.5m. Baku e = (+13m.45s.) = PR₁ + 2s., MN = (+45.8m.), MZ = (+55.6m.); the readings have been increased by 2min.

Nov. 9d. 10h. 54m. 42s. Epicentre 46°0N. 154°0E. (as on 1926 Nov. 2d.).

A = -0.624, B = +0.305, C = +0.719; D = +0.438, E = +0.899;
G = -0.647, H = +0.315, K = -0.695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	32.4	300	—	—	e 12 18?	+ 4	e 17.3	—
Ekaterinburg	54.5	319	9 33	- 3	e 17 22	+ 7	e 28.3	36.9
Leningrad	64.5	332	—	—	—	—	e 72.3	—
Pulkovo	64.7	332	—	—	—	—	e 43.0	—
Baku	70.3	309	—	—	—	—	e 35.3	41.6

Additional readings and notes: Ekaterinburg MZ = +36.8m. Baku MN = +41.4m.

Nov. 9d. Readings also at 2h., 5h., 6h., and 10h. (Nagasaki), 11h. (near Sumoto), 13h. (La Paz), 15h., 16h., and 18h. (Irkutsk), 21h. (near Manila), 22h. (Irkutsk).

Nov. 10d. 8h. 56m. 54s. Epicentre 34°0N. 136°0E.

A = -0.596, B = +0.576, C = +0.559.

Rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	0.8	325	0 12	0	(0 27)	+ 5	0.5	0.8
Sumoto	0.9	291	0 19	+ 5	(0 35)	+10	0.6	0.6
Kobe	1.0	316	0 12	- 3	(0 22)	- 6	0.4	0.5
Nagoya	1.4	33	0 19	- 2	(0 34)	- 5	0.6	1.0
Toyooka	1.8	328	0 34	+ 6	(0 45)	- 6	0.8	0.8
Hukuoka	4.6	266	1 34	+23	—	—	2.6	—
Irkutsk	29.1	319	—	—	—	—	15.1	—
Ekaterinburg	54.4	319	—	—	—	—	27.6	—

Additional readings: Osaka MN = +1.0m, Nagoya MN = +0.6m., MZ = +1.1m.

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Nov. 10d. Readings also at 4h. and 5h. (Nagasaki), 6h. (Irkutsk), 8h. (Nagasaki), 11h. (near Zurich), 12h. (Nagasaki), 13h. (near Amboina), 18h. (near Kobe and Sumoto), 19h. (near Lick), 23h. (near La Paz and Sucre).

Nov 11d. 3h. 1m. 15s. Epicentre 36°-0N. 143°-8E.

A = -·653, B = +·478, C = +·588 ; D = +·591, E = +·807 ;
G = -·474, H = +·347, K = -·809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Mizusawa	3·8	327	0 56	- 3	1 27	-17	—	—
Nagoya	5·6	264	1 25	- 2	(2 20)	-14	2·3	3·1
Osaka	7·0	262	1 39	- 7	(2 50)	-20	2·8	4·7
Kobe	7·2	262	1 51	+ 2	(3 25)	+10	3·4	5·2
Toyooka	7·2	270	1 51	+ 2	3 32	+17	e 4·5	—
Sumoto	7·4	260	1 55	+ 3	2 45	-36	3·9	4·6
Hukuoka	11·2	261	2 51	+ 4	5 48	?L	8·1	—
Zi-ka-wei	19·2	262	4 28	- 3	8 10	+ 4	—	12·7
Taihoku	E. 22·0	246	—	—	e 8 42	-23	—	—
Hong Kong	29·1	250	10 59	-16	(10 59)	-20	—	19·2
Irkutsk	32·1	314	e 6 32	-18	e 11 40	-30	16·8	21·4
Phu-Lien	N. 35·8	258	e 7 7	-13	e 12 45?	-22	17·8	—
Honolulu	52·3	90	—	—	—	—	e 24·2	—
Honolulu Univ.	E. 52·5	90	—	—	e 16 39	-11	e 26·6	—
Ekaterinburg	57·0	320	19 54	+ 2	e 17 47	+ 1	27·8	36·0
Kucino	68·8	325	—	—	20 7	- 5	33·2	40·7
Leningrad	69·7	330	e 11 24	+ 9	e 20 22	- 0	34·4	43·4
Pulkovo	69·8	330	—	—	i 20 25	- 1	36·8	42·1
Baku	70·2	307	—	—	e 20 24	- 4	33·8	39·1
Makeyevka	E. 73·1	318	—	—	i 21 3	0	38·8	47·6
Upsala	74·5	336	—	—	—	—	e 43·8	—
Hamburg	82·0	335	—	—	—	—	e 43·8	—
Budapest	83·0	326	—	—	—	—	e 44·8	—
Vienna	83·6	328	e 17 46	?PR ₁	—	—	e 50·8	55·8
Cheb	83·9	330	—	—	—	—	e 43·8	53·8
De Blit	84·8	336	—	—	—	—	e 45·8	48·5
Graz	84·9	328	—	—	e 23 8	-10	46·8	—
Uccle	86·1	336	—	—	—	—	e 45·7	—
Strasbourg	86·8	333	—	—	—	—	e 46·8	—
Moncalieri	89·8	330	—	—	—	—	46·0	—
Ottawa	91·1	26	—	—	—	—	e 49·8	—
Toronto	91·2	30	—	—	—	—	54·6	—
San Fernando	102·4	336	—	—	—	—	58·2	62·2

Additional readings : Mizusawa PE = +57s. Nagoya MZ = +3·2m.
Osaka MN = +4·5m. Kobe MN = +5·0m. Sumoto MZ = +4·2m.,
MN = +4·5m. Irkutsk MZ = +22·1m. Honolulu University
eE = +14m.27s. Ekaterinburg MZ = +36·2m. Kucino e =
+21m.11s., SR₁ = +24m.47s., SR₂ = +28m.3s. Leningrad MN =
+44·3m., MZ = +46·2m. Pulkovo SR₁ = +28m.21s., MN = +40·3m.,
MZ = +44·3m. Baku MN = +38·9m., MZ = +48·8m. Makeyevka
e = +25m.45s.? MN = +40·9m., MZ = +48·2m. Upsala eLN =
+47·2m. Budapest eL = +45·8m. De Blit MN = +54·5m.,
MZ = +58·8m. Moncalieri e = +41m.17s. San Fernando MN =
+61·2m.

Nov. 11d. Readings also at 3h. (Florence), 4h. (Phu-Lien), 6h. (near Tacubaya), 7h. (Baku, Irkutsk, and near Mizusawa), 11h. (Mizusawa), 14h. (Tacubaya and Nagasaki), 15h. (Nagasaki and Ekaterinburg), 16h. (Manila, La Paz, and Sucre), 18h. (Mizusawa), 19h. (La Paz and Sucre), 22h. (Wellington), 23h. (Baku, Ekaterinburg, Irkutsk, Manila, near Amboina, and near Tucson).

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Nov. 12d. 17h. 53m. 12s. (I) } Epicentre 56°·8N. 33°·6W. (as on 1924 Dec. 12d.).
 18h. 21m. 5s. (II) }

A = +·456, B = -·303, C = +·837; D = -·553, E = -·833;
 G = +·697, H = -·463, K = -·548.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Edinburgh	16·7	80	—	—	—	—	e 7·8	9·3
II	16·7	80	—	—	—	—	e 7·9	10·9
I Stonyhurst	17·8	86	—	—	—	—	e 8·8	—
II	17·8	86	—	—	—	—	e 8·9	10·4
I Kew	20·0	88	e 4 35	- 6	—	—	9·8	—
II	20·0	88	e 4 46	+ 5	—	—	9·9	—
I De Bilt	22·7	85	5 16	+ 3	—	—	e 10·3	12·5
II	22·7	85	5 15	+ 2	—	—	e 10·7	12·8
I Uccle	22·9	89	e 5 15	- 1	e 9 20	- 3	e 10·8	—
II	22·9	89	e 5 14	- 2	e 9 14	- 9	e 10·5	—
I Paris	22·9	95	—	—	—	—	e 11·8	12·8
II	22·9	95	—	—	e 9 34	+ 11	11·9	13·9
II Hamburg	24·7	79	—	—	—	—	e 14·9	—
II Besançon	25·8	95	—	—	—	—	13·9	—
I Strasbourg	25·9	91	—	—	—	—	e 14·8	—
II	25·9	91	—	—	—	—	—	14·9
II Moncalieri	28·1	97	—	—	—	—	e 15·4	—
II Ottawa	28·3	265	—	—	—	—	e 15·9	—
I Florence	30·8	95	—	—	—	—	e 15·6	18·0
II	30·8	95	—	—	—	—	e 15·5	16·9
II Toronto	31·4	266	—	—	—	—	18·9	—
I Makeyevka	42·5	70	—	—	—	—	e 22·8	—
II	42·5	70	—	—	—	—	—	24·7
I Ekaterinburg	47·3	49	—	—	—	—	17·8	—
II	47·3	49	—	—	—	—	19·9	—
I Baku	53·9	70	—	—	—	—	e 27·8	32·2
II	53·9	70	—	—	e 17 7	- 1	26·7	32·9

Additional readings: De Bilt I MN = +14·6m., MZ = +14·7m., II MN = +14·7m., MZ = +15·0m. Strasbourg eL = 18h.20m., which fits neither shock. Baku I MN = +32·4m., II MN = +33·0m.

Nov. 12d. Readings also at 4h. (Nagasaki and Hong Kong), 6h. (Riverview), 8h. and 14h. (Mizusawa), 20h. (De Bilt, Uccle, and near Manila), 22h. (La Paz).

Nov. 13d. 3h. 41m. 8s. Epicentre 50°·5N. 177°·5W.

A = -·635, B = -·028, C = +·772; D = -·044, E = +·999;
 G = -·771, H = -·034, K = -·636.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu	32·9	146	—	—	e 12 25	+ 3	i 16·2	18·6
Honolulu Univ.	33·1	146	—	—	—	—	14·2	18·1
Victoria	34·5	71	12 42	†8	(12 42)	- 6	16·9	17·4
Irkutsk	46·3	307	8 35	- 7	15 29	- 3	24·9	29·3
Chicago	59·0	61	—	—	17 52	- 19	27·5	29·5
Toronto	62·1	55	—	—	e 19 0	+ 11	34·1	—
Ekaterinburg	62·5	330	1 10 31	+ 2	18 52	- 3	25·9	37·5
Ottawa	62·7	51	e 10 40	+ 10	e 19 0	+ 3	e 25·9	33·9
Leningrad	67·2	347	10 59	0	20 0	+ 8	35·4	44·3
Pulkovo	67·5	347	e 11 1	0	e 20 4	+ 8	35·9	44·4
Upsala	69·0	353	—	—	e 20 22	+ 8	e 39·9	—
Kucino	69·7	340	11 18	+ 3	20 22	0	35·3	38·6
Hamburg	75·7	356	e 11 52†	- 1	—	—	e 38·9	42·9
Makeyevka	76·9	338	—	—	e 21 44	- 4	40·9	49·4
De Bilt	77·4	359	12 3	0	e 21 49	- 4	e 32·9	50·7
Kew	78·0	3	—	—	—	—	e 33·9	—
Uccle	78·6	359	—	—	e 22 1	- 6	e 32·9	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Piatigorsk	79.1	332	—	—	—	—	39.9	—
Cheb	79.1	354	—	—	—	e 38.9	54.9	—
Baku	80.1	326	i 12 20	0	i 22 33	+ 9	39.9	52.5
Vienna	80.5	352	e 12 29	+ 7	—	—	e 43.9	53.9
Strasbourg	80.8	357	—	—	—	—	e 49.9	—
Budapest	81.0	350	—	—	—	—	e 41.9	—
Graz	81.7	352	e 12 6	-23	e 23 46	+63	43.9	55.2
Moncalieri	84.4	357	—	—	e 23 15	+ 3	43.7	—
Hyderabad	85.2	292	23 9	?S	(23 9)	-12	—	53.4
Florence	85.4	353	i 12 42	- 8	e 22 52	[- 6]	43.9	50.9
Toledo	89.4	6	—	—	—	—	e 46.9	58.2
San Fernando	92.7	8	—	—	—	—	—	64.4
Melbourne	94.3	210	e 20 10	?PR ₁	i 25 8	+ 9	i 31.7	57.3
La Paz	114.9	89	20 28	?PR ₁	i 25 8	+ 9	56.6	—

Additional readings and note: Honolulu SR₁N = +14m.2s., eN = +15m.28s.
 Victoria LN = +15.4m. Irkutsk PR₁ = +10m.29s., SR₁ = +18m.28s.,
 MZ = +30.0m. Chicago SR₂N = +24m.22s., MN = +30.1m. Ekaterin-
 burg i = +14m.27s. = PR₁ - 7s., MZ = +39.4m. Ottawa MN = +35.4m.
 Leningrad MN = +42.2m., MZ = +44.2m. Pulkovo SR₂ = +27m.52s.,
 MN = +44.3m. Kucino PR₁ = +15m.38s., PPS = +21m.42s., SR₂ =
 +27m.58s., MN = +40.8m. Makeyevka e = +26m.52s. ? = SR₁ - 37s.,
 MN = +52.4m. De Bilt MN = +45.5m., MZ = +54.0m. Baku MZ =
 +52.3m., MN = +52.4m. San Fernando MN = +61.4m. Melbourne
 phases are only given as e and i.

Nov. 13d. 8h. 47m. 0s. Epicentre 35°.5N. 2°.5W. (as on 1926 Nov. 6d.).

A = +.813, B = -.036, C = +.581.

	Δ °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Almeria	1.4	0 29	+ 8	i 0 52	+13	1.0	1.2
Granada	1.9	e 0 54	?S	(e 0 54)	+ 1	(1.3)	1.5
Malaga	2.0	0 27	- 4	0 49	- 6	—	1.0

Almeria gives also MZ = +1.1m., MN = +1.4m. Granada gives S as eP and L as S.

Nov. 13d. 13h. 40m. 15s. Epicentre 31°.0S. 72°.0W. (as on 1926 May 12d.).

A = +.265, B = -.815, C = -.515; D = -.951, E = -.309;
 G = -.159, H = +.490, K = -.857.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
La Plata	12.4	111	i 3 19	+14	i 5 30	+ 1	6.4	—
Sucre	13.4	29	e 3 20	+ 2	i 5 56	+ 3	6.8	7.8
La Paz	14.9	15	i 3 31	- 7	6 36	+ 6	7.2	8.8

No additional readings.

Nov. 13d. Readings also at 0h. (Sucre and La Paz), 1h. (2) and 2h. (Nagasaki), 3h. (near Oaxaca and Tacubaya), 9h. (Apia, Baku, Ekaterinburg, Irkutsk, and Kucino), 11h. (near Wellington), 13h. (La Plata), 14h. (Nagasaki), 15h. (Nagasaki and near Tacubaya), 19h. (Baku and near Athens), 20h. (La Paz).

Nov. 14d. Readings at 1h. (Manila), 4h. (Ekaterinburg), 6h. and 7h. (Nagasaki), 8h. (Nagasaki and Sucre), 10h. (Manila), 18h. (Malabar), 20h. (Manila), 23h. (Baku, Irkutsk, near Bombay, Hyderabad, and near Simla).

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Nov. 15d. 4h. 21m. 6s. Epicentre 64°2N. 147°0W.

A = -0.365, B = -0.237, C = +0.900; D = -0.545, E = +0.839;
G = -0.755, H = -0.490, K = -0.435.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	E.	9.1	136	i 2 20	+ 2	i 4 10	+ 4	4.4	—
	N.	9.1	136	e 2 30	+12	4 12	+ 6	4.4	—
Victoria		20.3	130	4 34	-11	(8 30)	+ 1	8.5	8.5
Tucson		38.9	129	7 47	+ 2	—	—	—	9.5
Chicago		40.1	95	—	—	e 13 49	-19	17.2	20.0
Ann Arbor		41.3	92	—	—	e 14 36	+11	e 21.7	—
Toronto		42.1	87	—	—	i 14 54?	+18	18.5	—
Ottawa	N.	42.3	81	—	—	e 14 58	+19	e 18.9	24.4
Ithaca		44.4	85	—	—	—	—	e 23.9	—
Fordham		46.8	85	10 26	?PR ₁	17 10	+92	23.9	27.6
Baku		74.6	348	—	—	e 21 20	- 1	37.9	39.4
Granada		74.6	30	—	—	(21 57)	+36	22.0	—
La Paz		100.1	107	e 18 6	?PR ₁	—	—	—	—

Additional readings: Victoria PEN = +4m.54s. Tucson PR₁E = +8m.48s., PR₁N? = +9m.11s. Chicago PR₁ = +9m.39s., iEN = +14m.42s., MN = +18.3m.; L may be SR₁; all readings are given as 3h. Ann Arbor eN = +14m.42s., e = +15m.24s., eE = +17m.42s. = SR₁ + 25s., eN = +18m.24s. = SR₂ - 7s. Ottawa i = +15m.51s., e = +18m.0s. = SR₂ - 30s. Fordham i = +18m.3s., SR₁ = +20m.31s. = SR₂ + 15s., SR₁ = +21m.44s., SR₂ = +22m.32s. Baku e = +32m.10s.

Nov. 15d. Readings also at 0h. (near La Paz and Sucre), 6h. (Barcelona), 8h. (Berkeley, Lick, and Santa Clara), 10h. (near La Paz and Sucre), 12h. (near Tacubaya), 15h. (Santa Clara), 16h. (Rocca di Papa), 20h. (Apia).

Nov. 16d. Readings at 2h. (Baku), 9h. (Nagasaki), 18h. (Batavia), 19h. (Nagasaki), 20h. (near Toyooka).

Nov. 17d. 21h. 21m. 36s. Epicentre 35°5N. 2°5W. (as on 13d.).

A = +0.813, B = -0.036, C = +0.581; D = -0.044; E = -0.999;
G = +0.580, H = -0.025, K = -0.814.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Almeria		1.4	1	i 0 26	+ 5	i 0 45	+ 6	1 0.8	1 0
Granada		1.9	332	i 0 29	0	0 55	+ 2	—	1.2
Malaga		2.0	308	0 21	-10	0 39	-16	0.7	1.1
San Fernando		3.1	288	1 6	+17	1 31	+ 5	—	—
Alicante		3.2	30	1 21	+31	1 54	+26	2.2	2.3
Toledo		4.5	340	i 1 4	- 6	i 2 47	+43	13.5	3.5
Tortosa		5.8	24	e 1 44	+14	e 3 5	+26	—	3.9
Kew		16.0	5	—	—	—	—	8.4	—
Uccle		16.1	16	—	—	—	—	e 8.4	—
De Bilt		17.4	16	—	—	—	—	e 9.4	10.4

Additional readings: Almeria PR₁ = +35s., MNZ = +0.9m. Granada i = +39s., MZ = +1.3m. Alicante MN = +2.6m. Toledo iS = +3m.4s. De Bilt MZ = +12.1m.

Nov. 17d. Readings also at 1h. (Ekaterinburg and Riverview), 8h. (Riverview), 9h. and 10h. (Nagasaki), 11h. (Kobe, Sumoto, and Toyooka), 13h. (Baku), 15h. (Baku and Matuyama), 17h. (Malaga, Almeria, and near Granada (2)), 18h. (Manila), 20h. (Sucre), 21h. (Granada and Tacubaya), 22h. (Sucre).

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Nov. 18d. 16h. 31m. 18s. Epicentre 29°·7N. 147°·0E.

A = -·728, B = +·473, C = +·495; D = +·545, E = +·839;
G = -·416, H = +·270, K = -·869.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	11·2	298	e 2 42	- 5	—	—	2·3	—
Manila	28·3	243	e 6 12	+ 1	(11 11)	+ 7	11·2	—
Irkutsk	38·5	319	e 7 43	+ 1	e 13 43	- 2	19·7	27·6
Ekaterinburg	63·5	323	i 10 39	+ 4	e 19 21	+14	31·7	35·0
Kucino	75·5	326	—	—	—	—	40·3	41·3
Baku	76·1	310	—	—	—	—	38·2	—
Leningrad	76·5	332	—	—	—	—	e 47·7	—
Pulkovo	76·6	332	—	—	—	—	e 45·7	—

Kucino gives also MN = +41·2m.

Nov. 18d. Readings also at 0h. (near Sumoto), 1h. (Tacubaya), 2h. (Baku), 4h. (Oaxaca and near Tacubaya), 9h. (La Paz), 10h. (Manila), 16h. (near Malaga), 18h. (Granada), 19h. (Manila and near Malabar), 21h. (Granada), 22h. (Moncalieri, Florence, Strasbourg, Zurich, and near Malaga), 23h. (Makeyevka and Venice).

Nov. 19d. 0h. 40m. 0s. Epicentre 6°·0S. 113°·0E. (as on 1922 May 10d.).

A = -·389, B = +·915, C = -·105; D = +·921, E = +·391;
G = +·041, H = -·096, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	15·3	82	i 4 12	+29	i 10 0	?	—	—
Adelaide	37·3	145	—	—	13 23	- 5	19·6	22·0
Riverview	44·9	136	e 10 39	?PR ₁	15 24	+10	e 19·0	21·5
Irkutsk	58·8	354	e 9 59	- 5	17 53	-16	e 30·0	—
Florence	102·6	314	—	—	—	—	e 61·0?	67·7

Additional readings: Adelaide MN = +22·8m. Riverview MN = +21·1m.
Irkutsk PR₁ = +13m.18s., SR₁ = +22m.5s.

Nov. 19d. Readings also at 1h. (Ekaterinburg), 5h. (near La Paz and Sucre), 6h. (Ekaterinburg), 8h. (Irkutsk, near Mizusawa, near Sucre, and La Paz), 10h. (Ekaterinburg, Irkutsk, and near Toyooka), 11h. (near Mizusawa), 13h. (Azores), 16h. (Nagasaki), 17h. (Baku, Ottawa, Toronto, and near Tucson).

Nov. 20d. Readings also at 1h. (Irkutsk), 2h. (Sucre and near Toyooka), 6h. (Apia), 7h. (near La Paz and Sucre), 12h. (Wellington), 13h. (2) and 15h. (Nagasaki), 18h. (Makeyevka, Nagasaki, and near Strasbourg), 19h. (near Tacubaya), 22h. (near Mizusawa).

Nov. 21d. 11h. 14m. 45s. Epicentre 23°·0N. 97°·0E.

A = -·112, B = +·914, C = +·391; D = +·993, E = +·122;
G = -·048, H = +·388, K = -·921.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	8·0	269	3 25	?S	(3 25)	-12	7·2
	N.	8·0	269	3 45	?S	(3 45)	+ 8	7·4
Phu-I den		9·2	102	e 2 23	+ 4	e 4 23	+15	4·7
Hong Kong		15·9	89	6 45	?S	(6 45)	- 8	7·8
Simla	N.	19·4	299	—	—	—	e 12·2	—
Tajhoku	E.	22·5	80	—	—	e 9 8	- 7	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	23.0	264	(4 51)	-26	(9 11)	-14	(11.5)	—
Zi-ka-wei	23.2	64	e 5 5	-14	—	—	—	12.1
Manila	24.2	106	—	—	—	e 12.9	—	—
Irkutsk	29.8	9	e 6 29	+ 3	e 11 27	- 4	15.2	16.1
Baku	43.1	305	—	—	e 19 7	?SR ₂	24.6	26.6
Makeyevka	52.6	315	—	—	—	e 23.2	—	—
Kucino	53.9	323	—	—	—	—	29.6	31.6
Pulkovo	58.6	328	—	—	e 27 37	?L	31.2	37.5
Leningrad	58.7	328	—	—	—	—	33.2	37.5
De Bilt	73.2	320	—	—	—	e 42.2	—	—

Additional readings and notes: Hong Kong S = +7m.30s. Simla eE = +12m.45s. Bombay: All the readings have been diminished by 6 min. Irkutsk·MZ = +17.6m. Baku e = +15m.27s. = PS +29s., MN = +27.2m., MZ = +29.7m. Makeyevka L = +31.2m.

Nov. 21d. Readings also at 1h. (Ekaterinburg), 3h. (Baku and Port au Prince), 4h. (Ottawa, Toronto, and Nagasaki), 6h. (near La Paz and Sucre), 7h. (near Mizusawa and near Zurich), 11h. (near La Paz), 12h. (Ekaterinburg and near La Paz), 15h. (Ekaterinburg), 17h. (Taihoku), 18h. (near Manzanillo), 19h. (Pulkovo, Leningrad, and Ekaterinburg), 20h. (Ekaterinburg), 23h. (near Ekaterinburg, near La Paz, and Sucre).

Nov. 22d. 19h. 8m. 12s. Epicentre 30°·5N. 102°·0E.

A = -·179, B = +·843, C = +·508; D = +·978, E = +·208;
G = -·106, H = +·496, K = -·862.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	10.6	156	e 2 53	+15	e 4 55	+10	5.2	5.9
Hong Kong	13.6	124	4 56	?S	(4 56)	-62	6.6?	6.7
Zi-ka-wei	16.7	82	e 6 51	?S	(e 6 51)	-20	(e 8.3)	10.5
Taihoku	18.1	103	—	—	e 7 37	- 5	—	—
Irkutsk	21.8	4	1 5 2	- 1	9 13	+12	11.8	14.1
Baku	43.0	298	—	—	e 18 21	?SR ₁	e 25.8	—

Zi-ka-wei gives S as P and L as S.

Nov. 22d. Readings also at 2h. and 4h. (Irkutsk), 8h. (near Sucre), 14h. (Nagasaki, near Mizusawa, and near Athens), 15h. (Baku), 18h. (near Malaga and near Toyooka), 19h. (Kucino and La Paz), 22h. (near Malaga).

Nov. 23d. 0h. 20m. 10s. Epicentre 46°·0N. 154°·0E. (as on Nov. 9d.).

A = -·624, B = +·305, C = +·719; D = +·438, E = +·899;
G = -·647, H = +·315, K = -·695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	11.7	239	3 8	+13	5 18	+ 6	—	—
Irkutsk	32.4	300	e 6 39	-13	e 12 1	-13	16.8	22.7
Ekaterinburg	54.5	319	1 9 34	- 2	17 8	- 7	25.8	36.0
Leningrad	64.5	332	10 44	+ 2	19 23	+ 4	33.5	43.5
Pulkovo	64.7	332	10 42	- 1	1 19 19	- 2	33.8	41.4
Kucino	65.0	326	e 10 46	+ 1	1 18 53	-32	34.8	42.4
Upsala	68.3	339	—	—	—	e 41.8	—	—
Baku	70.3	309	11 22	+ 3	1 20 40	+10	34.8	40.5
Makeyevka	70.6	321	e 11 23	+ 2	e 20 35	+ 2	32.8	49.1
Platigorsk	71.2	315	—	—	—	—	e 37.8	47.8
Hamburg	75.8	340	—	—	—	—	e 42.8	—
De Bilt	78.3	341	1 12 6	- 3	—	—	e 39.8	52.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cheb	78.3	335	—	—	—	—	e 40.8	47.8
Toronto	78.6	37	—	—	—	—	42.8	—
Ottawa	78.7	33	—	—	e 29.50?	?	42.8	—
Vienna	z. 78.8	333	e 12 9	- 3	—	—	—	—
Uccle	79.7	341	—	—	—	—	e 40.8	—
Kew	80.1	346	—	—	—	—	e 38.8	—
Strasbourg	81.0	339	e 12 31	+ 6	—	—	44.8	—
Moncalieri	84.3	337	13 17	+33	24 14	+63	45.5	—
Rocca di Papa	85.7	332	—	—	—	—	e 49.4	58.3

Additional readings: Mizusawa SN = +5m.19s. Irkutsk MZ = +22.6m.
 Ekaterinburg SR₁ = +21m.2s., MN = +37.4m., MZ = +38.2m. Leningrad
 PR₂ = +14m.45s., MNZ = +43.4m. Pulkovo MNZ = +43.4m. Kucino
 ePR₂ = +14m.50s., PS = +19m.59s., eSR₁ = +23m.50s., eSR₂ = +26m.38s.,
 MN = +44.9m. Baku MZ = +47.5m. Makeyevka MN = +53.2m.,
 MZ = +53.5m. Strasbourg e = +12m.57s. and +13m.25s.

Nov. 23d. 11h. 5m. 5s. Epicentre 35°.2N. 136°.3E. (as on 1926 Oct. 20d.).

A = - .591, B = + .565, C = + .576.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	0.5	93	0 12	+ 4	—	—	0.5	0.5
Kobe	1.1	240	—	—	(0 30)	- 1	0.5	0.6
Toyooka	1.2	291	0 19	+ 1	—	—	0.8	0.9
Sumoto	1.4	234	0 13	- 8	—	—	0.4	0.6

Sumoto gives also MN = +0.7m.

Nov. 23d. 20h. 37m. 8s. Epicentre 25°.0N. 108°.5E.

A = - .288, B = + .860, C = + .423; D = + .948, E = + .317;
 G = - .134, H = + .401, K = - .906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	4.6	203	e 1 12	+ 1	e 2 1	- 5	2.1	—
Hong Kong	5.8	116	3 7	?S	(3 7)	+28	—	3.6
Taihoku	11.8	87	—	—	—	—	e 6.3	—
Zi-ka-wei	12.9	59	—	—	—	—	e 7.1	—
Irkutsk	27.5	354	—	—	—	—	e 14.6	—
Ekaterinburg	46.7	326	—	—	—	—	24.9	—

No additional readings.

Nov. 23d. Readings also at 0h. (Tacubaya and Florence), 1h. and 2h. (2) (Nagasaki), 3h. (Riverview and Sydney), 4h. (Baku, La Paz (2), and Sucre (3)), 5h. (Nagasaki (2), Ekaterinburg, and Irkutsk), 12h. (Matuyama), 16h. (near Laibach), 17h. (near La Paz), 18h. (La Paz, Leningrad, and near Mizusawa), 19h. (Apia), 20h. (Sucre, near La Paz, and near Athens), 21h. (La Paz).

Nov. 24d. 17h. 40m. 54s. Epicentre 29°.7N. 147° .0E. (as on 18d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	38.5	319	e 7 32	-10	e 13 13	-32	19.1	—
Ekaterinburg	63.5	323	i 10 39	+ 4	i 19 34	+27	30.1	—
Baku	76.1	310	e 11 55	- 1	e 21 45	+ 7	38.6	44.2
Pulkovo	76.6	332	—	—	—	—	e 41.3	—
Uccle	93.1	337	—	—	—	—	53.1	—

Baku gives also MN = +50.0m., MZ = +50.1m.

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Nov. 24d. Readings also at 1h. (Apia), 5h. and 7h. (Nagasaki), 18h. (La Paz), 19h. (Sucre), 20h. (Moncalieri, Rocca di Papa, Matuyama, near La Paz, and Sucre), 21h. (Matuyama, near La Paz, and Sucre), 23h. (Irkutsk (2)).

Nov. 25d. Readings at 2h. (Baku), 3h. (Apia), 8h. (Lick), 11h. and 12h. (Nagasaki), 13h. (Hong Kong and near Manila), 16h. (Nagasaki near Merida, and near Tacubaya), 20h. (La Paz), 22h. (Ottawa, Toronto, Ekaterinburg, De Bilt, and Uccle), 23h. (Baku (2), Ekaterinburg, and Makeyevka).

Nov. 26d. 0h. 19m. 28s. Epicentre 43°·5N. 79°·0E.

$$A = +.138, B = +.712, C = +.688; \quad D = +.982, E = -.191; \\ G = +.131, H = +.676, K = -.725.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	12.4	187	—	—	—	—	e 7.4	—
Ekaterinburg	17.7	326	e 4 21	+ 8	i 7 49	+16	i 8.5	10.8
Baku	21.8	272	—	—	e 8 58	- 3	e 11.8	—
Makeyevka	23.6	294	—	—	e 11 32?	+22	e 14.5	—
Kucino	23.8	310	—	—	—	—	i 14.0	—
Pulkovo	33.3	317	i 6 55	- 4	e 12 19	-10	16.5	19.4
Leningrad	33.4	317	6 54	- 6	—	—	17.8	21.6
De Bilt	E.Z. 48.2	308	—	—	—	—	e 29.5	30.6
Uccle	49.1	306	—	—	—	—	25.5	—

Additional readings: Simla eN = 0h.15m.42s. Ekaterinburg i = +4m.26s. = PR₁-2s. and +8m.7s. = SR₁+8s. Kucino L = +16.0m.
Leningrad MZ = +21.8m. De Bilt eLN = +25.5m.

Nov. 26d. Readings also at 1h. and 2h. (Nagasaki), 3h. (near La Paz), 10h. (Amboina), 16h. (Rocca di Papa, Nagasaki, and near Batavia), 20h. (Nagasaki), 22h. (Baku, Ekaterinburg, and Granada), 23h. (Ekaterinburg and near Manila).

Nov. 27d. 5h. 19m. 18s. Epicentre 12°·0N. 126°·0E. (as on 1925 May 7d.).

$$A = -.575, B = +.791, C = +.208; \quad D = +.809, E = +.588; \\ G = -.122, H = +.168, K = -.978.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.5	298	i 1 24	- 1	(i 2 32)	+ 1	i 2.5	4.0
Taihoku	E. 13.7	343	e 3 36	+14	—	—	7.4	9.3
Hong Kong	15.2	314	3 38	- 4	6 25	-12	7.2	8.5
Zi-ka-wei	19.6	348	i 4 44	+ 8	8 39	+24	—	15.5
Phu-Lien	20.6	298	e 4 37	-11	e 8 23	-13	9.7	15.8
Nagasaki	21.0	9	e 10 14	?S	(e 10 14)	+90	14.2	14.9
Hukuoka	21.9	10	5 14	+10	(9 20)	+17	9.3	—
Sumoto	23.7	18	5 33	+ 8	10 25	?SR ₁	14.5	—
Kobe	E. 24.1	18	—	—	—	—	—	14.2
Osaka	24.2	19	5 3	-27	(9 52)	+ 4	9.9	14.7
Batavia	26.4	227	i 5 30	-22	1 10 4	-26	14.7	—
Irkutsk	43.9	341	8 17	- 8	14 51	-10	23.7	23.4
Colombo	45.8	268	5 7	?	18 17	?	27.5	30.1
Hyderabad	46.2	283	8 36	- 5	15 11	-20	25.9	33.4
Adelaide	48.5	167	—	—	15 2	-58	21.1	24.8

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	48.8	301	e 15 48	?S	(e 15 48)	-16	—	—
Bombay	51.5	285	16 8	?S	(16 8)	-30	—	—
Riverview	51.7	153	—	—	e 17 2	+22	e 21.2	34.0
Melbourne	52.9	161	—	—	i 17 24	+29	e 22.4	29.6
Baku	71.7	310	i 11 29	+1	20 51	+5	35.7	47.6
Platigorsk	76.6	314	12 20	+21	e 22 6	[+ 6]	40.7	—
Kucino	79.0	325	—	—	e 22 4	-8	40.8	43.6
Makeyevka	79.8	319	e 12 16	-2	e 22 14	-7	36.7	52.6
Pulkovo	82.5	330	i 12 30	-3	22 46	-6	39.7	49.4
Upsala	88.5	332	—	—	e 23 43	-15	e 44.7	49.0
Budapest	92.3	320	e 14 42?	+73	—	—	e 48.7	—
Vienna	93.6	322	e 13 24	-12	—	—	—	52.7
Graz	94.1	321	—	—	—	—	47.9	61.1
Victoria	94.3	339	—	—	26 36	+97	—	—
Hamburg	95.0	325	—	—	—	—	e 45.7	49.7
Cheb	95.3	324	—	—	e 24 42?	-27	e 47.7	51.7
De Bilt	98.3	328	—	—	e 25 28	-11	e 47.7	55.0
Rocca di Papa	98.6	317	e 16 45	+162	e 25 21	-21	e 48.8	55.3
Strasbourg	98.7	325	—	—	e 26 42?	+59	51.7	54.7
Florence	98.7	318	17 42	?PR ₁	—	—	e 41.7	65.7
Dyce	98.8	335	—	—	i 25 20	-24	47.7	54.4
Uccle	99.4	327	—	—	e 25 32	-18	e 47.7	54.2
Edinburgh	100.0	334	e 37 42?	?SR ₂	—	—	e 48.7	55.2
Besançon	100.3	324	—	—	e 27 42?	+103	52.7	—
Stonyhurst	101.0	331	—	—	—	—	e 50.7	56.7
Kew	101.4	330	—	—	e 24 42?	[+11]	49.7	55.6
Oxford	101.7	330	—	—	e 25 24	-48	e 47.7	55.8
Tortosa	N. 107.1	321	—	—	—	—	e 48.7	55.9
Granada	111.8	319	—	—	e 30 12	?	e 59.8	66.4
San Fernando	E. 113.9	320	—	—	—	—	—	69.7
Ottawa	119.4	15	—	—	e 30 18	?PS	e 53.7	—
Toronto	N. 119.8	20	—	—	e 30 25	?PS	51.3	—
La Paz	165.6	110	e 20 20	[+ 8]	33 53	?	87.5	107.0
Sucre	167.1	124	e 20 20	[+ 7]	33 56	?	86.3	94.1

Additional readings: Phu-Lien eSR₁ = +9m.23s., MN = +15.9m. Nagasaki readings are given as for 4h. Kobe MN = +12.2m. Batavia P = +5m.31s., i = +9m.42s. Irkutsk SR₁ = +18m.11s., MN = +28.6m. Simla ePE = +16m.54s. = PS - 26s. Riverview MN = +32.2m. Baku i = +21m.55s. = [S] + 31s., MZ = +43.6m., MN = +48.0m. Platigorsk PS = +23m.12s. Kucino e = +23m.19s. = PS + 26s., +24m.46s. and +30m.34s., MN = +42.7m. Makeyevka MZ = +52.3m. Pulkovo SR₁ = +27m.6s., MN = +46.0m., MZ = +50.4m. Graz e = 5h.17m.34s. Hamburg MZ = +59.7m. De Bilt MN = +53.4m., MZ = +64.4m. Rocca di Papa ePEN = +16m.48s., e = +18m.54s. Strasbourg e = +32m.42s. = SR₁ + 21s., and +43m.42s. Uccle MN = +54.8m. Kew MN = +55.8m. San Fernando MN = +68.7m. Ottawa e = +36m.42s. = SR₁ + 4s. Toronto eN = +37m.27s. Sucre i = +20m.30s., PR₁ = +26m.36s., SR₁ = +40m.8s.

Nov. 27d. 9h. 25m. 42s. Epicentre 36°.5N. 133°.0E. (as on 1926 Jan. 14d.).

A = -.548, B = +.588, C = +.595.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	1.8	123	0 40	+12	—	—	1.0	1.1
Kobe	2.5	136	e 0 42	+3	(1 8)	-1	1.1	1.2
Sumoto	2.7	145	0 43	+1	(1 7)	-7	1.1	1.2
Matuyama	2.7	184	e 0 58	+16	—	—	—	1.2
Hukuoka	3.7	218	0 52	-6	(1 28)	-14	1.5	—

No additional readings.

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Nov. 27d. 14h. 40m. 0s. Epicentre 15°·0N. 117°·0W.

A = -·438, B = -·861, C = +·259; D = -·891, E = +·454;
G = -·118, H = -·231, K = -·966.

Very rough, uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Guadalajara	14·0	64	3 15	-11	—	—	4·2	—
Tacubaya	17·5	73	3 4	-67	5 12	-137	5·3	6·4
Tucson	E. 18·1	17	e 4 33	+15	8 4	+22	e 8·3	9·7
	N. 18·1	17	4 32	+14	—	—	8·8	11·2
Chicago	E. 36·8	38	—	—	e 12 38	-43	16·0	16·8
Toronto	N. 42·9	40	—	—	—	—	19·9	—
Ottawa	46·0	40	e 11 30	PR ₁	—	—	e 21·0	—
La Paz	57·6	123	9 51	- 5	—	—	—	—
Sucre	60·5	124	e 10 29	+13	—	—	—	—
Ekaterinburg	108·1	1	—	—	—	—	53·0	—

Additional readings: Tucson eN = +5m.32s. and +6m.29s. Chicago
eSR₁N₁? = +13m.55s., SR₁E₁? = +14m.0s.

Nov. 27d. Readings also 0h. (Baku), 3h. (Ekaterinburg and near Mizusawa), 4h. (Kodaikanal), 5h. (Manila, Taihoku, and near Lick), 6h. (Nagasaki and near Manila (2)), 7h. (Uccle), 8h. (Ekaterinburg and near Sumoto), 9h. (Taihoku), 11h. (Ekaterinburg and near Mizusawa), 12h. (Nagasaki), 13h. (Mizusawa), 14h. and 15h. (Nagasaki), 18h. (Sucre and Nagasaki), 19h. (Nagasaki), 20h. (La Paz and Nagasaki), 23h. (Nagasaki (2)).

Nov. 28d. Readings at 1h. (2) and 2h. (Nagasaki), 3h. and 4h. (Agana), 5h. (Honolulu), 6h. (La Paz), 9h. (Irkutsk), 15h. (near Algiers), 16h. (La Paz and near Sucre), 21h. (Nagasaki (2)), 22h. (near Algiers), 23h. (Baku).

Nov. 29d. Readings at 2h. (Nagasaki), 3h. (Nagasaki, La Paz, and Sucre), 4h. (San Juan), 5h. (La Plata), 8h. (Oaxaca, Tacubaya, Puebla, Vera Cruz, and Tucson), 9h. and 10h. (Nagasaki), 12h. (Sucre), 13h. (Azores and Mizusawa), 14h. (La Paz), 21h. (Manila, Strasbourg, and Zurich), 23h. (Nagasaki).

Nov. 30d. 10h. 56m. 6s. Epicentre 47°·0N. 9°·0E.

A = +·674, B = +·107, C = +·731; D = +·156, E = -·988;
G = +·722, H = +·114, K = -·682.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zurich	0·5	329	10 6	- 2	10 14	0	—	—
Strasbourg	1·8	332	0 31	+ 3	0 54	+ 3	e 1·3	—
Hohenheim	1·8	5	e 0 24	- 4	10 58	+ 7	—	1·0
Besançon	2·1	277	e 0 25	- 8	10 47	-12	—	—
Makeyevka	19·5	76	e 3 12	-83	—	—	—	—

Additional readings: Strasbourg PR₁ = +46s., iS = +1m.0s., iSR₁ = +1m.10s.
Hohenheim eN = +33s. and +46s., eE = +50s.

Nov. 30d. Readings also at 1h. (Baku, Pulkovo, and Leningrad), 2h. (Nagasaki and near La Paz), 3h., 5h., 6h., and 7h. (Nagasaki), 8h. (Sucre (2)), 12h. (Baku), 13h., 14h., and 16h. (Nagasaki).

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Dec. 1d. 1h. 8m. 27s. Epicentre 49°0N. 174°0E. (as on 1924 Sept. 17d.).

A = -0.652, B = +0.068, C = +0.755; D = +0.105, E = +0.995;
G = -0.751, H = +0.079, K = -0.656.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	42.6	302	e 7 19	-56	—	—	12.6	21.0
Ekaterinburg	60.7	325	10 13	-4	18 26	-6	27.0	31.2
Leningrad	67.0	341	—	—	—	—	e 31.4	43.3
Pulkovo	67.3	341	e 11 15	+15	e 20 5	+11	33.0	43.2
Toronto	67.3	49	—	—	—	—	—	50.6
Ottawa	67.8	45	—	—	—	—	e 48.5	—
Kucino	69.0	336	—	—	e 31 9	?	37.0	—
Makeyevka	75.8	332	—	—	—	—	43.6	45.7
Baku	78.0	321	e 12 3	-4	e 21 45	-15	37.0	46.0
De Bilt	78.4	353	—	—	—	—	e 44.5	—
Uccle	80.1	355	—	—	—	—	e 45.6	—

Additional readings: Ekaterinburg e = +21m.37s., MN = +30.9m., MZ = +35.5m.
Pulkovo MNZ = +43.6m. Leningrad MNZ = +43.4m.
Baku MN = +45.9m., MZ = +46.0m. De Bilt eLN = +43.4m.

Dec. 1d. 3h. 55m. 41s. Epicentre 31°5N. 130°0E. (as on 1926 Jan. 25d.).

A = -0.548, B = +0.653, C = +0.522; D = +0.766, E = +0.643;
G = -0.336, H = +0.400, K = -0.853.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	1.3	356	0 9	-11	—	—	—	—
Matuyama	3.3	45	e 1 18	+26	e 1 44	+13	e 1.8	2.0
Sumoto	5.0	54	2 9	?S	(2 9)	-8	2.6	3.0
Kobe	5.3	52	e 2 19	?S	(e 2 19)	-6	—	—
Osaka	5.6	53	2 19	?S	(2 19)	-15	2.7	3.3
Toyooka	5.7	45	1 32	+4	—	—	2.0	2.1
Irkutsk	28.0	326	—	—	—	—	16.3	—

Toyooka "Off coast of Izumo."

Dec. 1d. 4h. 57m. 42s. Epicentre 35°0N. 132°5E.

A = -0.554, B = +0.604, C = +0.574; D = +0.737, E = +0.676;
G = -0.388, H = +0.423, K = -0.819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Matuyama	1.2	173	e 0 17	-1	e 0 38	+5	e 0.9	1.2
Toyooka	2.0	74	0 21	-10	—	—	0.8	1.0
Sumoto	2.1	108	1 2	?S	(1 2)	+4	1.7	1.8
Hukuoka	2.2	230	0 33	-1	—	—	1.3	—
Kobe	2.2	98	0 39	+5	—	—	1.3	1.3
Osaka	2.4	98	0 46	+9	—	—	1.4	2.7
Nagasaki	3.2	226	0 57	+7	1 57	+29	2.0	—
Nagoya	3.6	87	0 21	-35	—	—	1.2	1.5
Irkutsk	26.5	319	e 5 25	-28	e 9 58	-34	13.3	16.6
Baku	63.2	302	—	—	—	—	e 33.3	—
Kucino	64.1	321	—	—	—	—	e 35.9	—
Leningrad	65.8	328	—	—	—	—	e 37.2	—
Pulkovo	66.0	328	—	—	e 34 0	?	e 38.8	41.6
Makeyevka	67.5	314	—	—	e 40 18?	?	44.3	—

Additional readings: Toyooka MN = +1.2m., "Off coast of Izumo."
Sumoto MZ = +1.9m. Irkutsk MZ = +16.3m. Kucino gives L as e,
also e = +40m.36s.

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Dec. 1d. 20h. 35m. 41s. (I) } Epicentre 36° 5N. 3° 5W.
21h. 4m. 12s. (II) }

A = +.802, B = -.049, C = +.595.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Granada	0.7	353	10 12	+ 1	0 19	- 1	—	0.4
II	0.7	353	10 12	+ 1	0 19	- 1	—	0.4
I Malaga	0.8	288	0 18	+ 6	0 26	+ 4	—	0.7
II	0.8	288	0 18	+ 6	0 26	+ 4	—	0.5
I Almeria	1.0	67	10 15	0	10 23	—	10.4	1.0
II	1.0	67	10 16	+ 1	10 25	- 3	10.5	0.5

Additional reading : Almeria I MNZ = +0.5m.

Dec. 1d. Readings also at 0h. (Sucre), 2h. (La Paz and Sucre; perhaps at 41°S. 92°W., as on 1924 July 17d.), 5h. (near Nagasaki), 6h. (near Sumoto), 7h. (near Nagasaki), 8h. (La Paz and Sucre), 9h. (Toyooka), 12h. (near Nagasaki), 13h. (near Mizusawa and Irkutsk), 14h. (Irkutsk and Baku), 15h. (Irkutsk), 17h. (Leningrad), 20h. (near Nagasaki), 21h. (near Mizusawa).

Dec. 2d. 8h. 13m. 34s. Epicentre 34° 0S. 57° 0E. (as on 1926 Sept. 21d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	31.7	262	—	—	13 14	+71	—	18.7
Colombo	46.3	32	8 51	+ 2	15 26	- 6	22.4	25.8
Batavia	53.7	70	19 33	+ 2	17 4	- 1	—	—
Bombay	55.0	19	9 37	- 2	17 17	- 4	e 28.6	—
Hyderabad	55.4	25	10 5	+23	17 30	+ 4	e 24.2	28.3
Adelaide	65.2	116	8 30	?	19 30	+ 3	e 36.6	38.4
Simla	67.9	19	e 20 38	?	—	—	—	37.9
Melbourne	68.6	122	—	—	—	—	—	36.1
Baku	74.7	355	1 11 56	+ 9	1 21 35	[-12]	e 36.4	41.0
Riverview	74.9	121	—	—	e 21 32	+ 7	e 32.0	38.1
Sydney	74.9	121	—	—	—	—	e 37.3	39.6
Manila	77.8	64	e 12 18	+12	—	—	—	47.4
Hong Kong	78.3	53	—	—	—	—	—	—
Makeyevka	83.8	349	—	—	e 23 6	- 1	e 30.4	50.1
Wellington	85.5	139	—	—	—	—	e 40.4	—
La Plata	88.0	229	—	—	—	—	—	37.7
Vienna	89.8	335	1 13 13	- 2	—	—	—	—
Granada	90.8	317	—	—	—	—	e 47.6	53.5
Ekaterinburg	90.9	3	e 13 17	- 4	1 24 13	-10	e 38.4	50.3
Kucino	91.2	350	e 13 19	- 3	e 24 19	- 7	e 49.9	51.2
San Fernando	91.8	315	—	—	—	—	—	59.9
Toledo	92.8	319	—	—	—	—	e 48.2	53.5
Irkutsk	95.6	27	e 13 37	-10	—	—	e 47.4	56.5
Pulkovo	96.3	343	e 13 46	- 5	—	—	e 53.4	57.0
Uccle	96.6	330	—	—	e 24 26	[+20]	e 41.4	—
De Bilt	97.3	332	—	—	e 26 26	?	e 48.4	—
Upsala	99.3	343	—	—	—	—	e 32.4	—
Sucre	103.6	235	e 18 40	?	—	—	e 45.6	52.9
La Paz	107.4	235	18 15	?	28 39	?	e 54.4	59.1
Ottawa	142.5	302	—	—	—	—	e 68.4	—
Toronto	145.1	299	—	—	31 26	?	—	—
Chicago	151.2	296	—	—	—	—	e 76.0	91.8
Victoria	165.6	1	—	—	—	—	e 92.4	95.7

Additional readings and notes : Batavia iPZ = +9m.34s. Hyderabad gives T, 8h.14m.18s. Adelaide eSR₁ = +28m.49s. = SR₂ +41s., MN = +43.4m. Simla ME = +34.5m. Melbourne e = +24m.2s. = SR₁ - 86s. Baku MN = +47.7m., MZ = +48.4m. Riverview e = +14m.50s. = PR₁ - 17s., MN = +40.3m. Ekaterinburg i = +13m.18s., e = +16m.46s. = PR₁ - 27s., iSR₁S = +23m.50s. = [S] +17s., iPS = +25m.20s. = PS - 1s., e = +26m.42s., eSR₁ = +29m.49s. = -52s., eSR₂ = +34m.12s. = -45s., MN = +49.0m.,

Continued on next page.

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MZ = +53.8m. Kucino eSR₂ = +34m.0s. San Fernando MN = +57.9m. Toledo MNW = +53.8m. Irkutsk PR₁ = +17m.35s. = PR₁ - 11s., PR₂ = +22m.22s., PPS = +26m.16s., SR₁ = +31m.36s. = SR₁ - 6s., eSR₂ = +35m.12s. = SR₂ - 67s., MN = +53.9m., MZ = +55.0m. Pulkovo PR₁ = +17m.36s. = PR₁ - 14s., PPS = +26m.33s., SR₁ = +31m.26s. = SR₁ - 25s., MZ = +57.5m. De Bilt e = +41m.26s. Upsala = +32m.26s. = SR₁ - 3s. Ottawa eE = +23m.8s. = PR₁ + 19s., eN = +37m.50s.

Dec. 2d. 16h. 41m. 47s. Epicentre 3°·0N. 65°·0E.

A = +.422, B = +.905, C = +.052; D = +.906, E = -.423;
G = +.022, H = +.047, K = -.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kodaikanal	14.3	59	e 5 1	+91	—	—	15.5	6.3
Colombo	15.3	75	2 3	?	(6 48)	+ 9	6.8	8.5
Hyderabad	19.6	42	4 28	- 8	8 23	+ 8	9.7	10.6
Simla	30.4	21	—	—	—	—	e 16.3	—
Baku	39.8	342	e 7 50	- 3	e 14 8	+ 5	20.7	25.5
Ekaterinburg	54.0	358	e 9 40	+ 7	e 17 13	+ 4	25.7	—
Irkutsk	59.0	29	e 10 7	+ 2	e 18 15	+ 4	20.2	—
Pulkovo	62.7	341	—	—	—	—	e 39.5	—

Additional readings and notes: Hyderabad gives T₀ 16h.41m.17s. Baku MN = +27.9m., MZ = +28.9m. Irkutsk ePR₁ = +12m.37s. = PR₁ - 9s.

Dec. 2d. 17h. 28m. 54s. Epicentre 22°·0N. 121°·0E. (as on 1926 Aug. 3d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	3.1	9	e 0 38	-11	—	—	1.2	1.3
Hong Hong	6.3	275	2 49	?	(2 49)	- 3	—	4.7
Manila	7.4	180	e 2 6	+14	—	—	3.8	—
Irkutsk	32.0	341	—	—	—	—	17.1	21.0
Ekaterinburg	55.6	325	—	—	—	—	29.1	—
Baku	61.9	307	—	—	—	—	e 34.1	—
Leningrad	71.5	329	—	—	—	—	e 53.8	—

Dec. 2d. 23h. 12m. 40s. Epicentre 57°·3N. 165°·0W. (as on 1920 April 18d.).

A = -.522, B = -.140, C = +.842; D = -.259, E = +.966;
G = -.813, H = -.218, K = -.540.

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Victoria E.	26.2	92	—	—	8.8	11.2
Irkutsk	48.6	308	e 8 56	- 2	e 28.3	—
Chicago N.	49.6	75	—	—	e 24.6	—
Toronto	52.3	67	—	—	29.7	—
Ottawa	52.9	61	—	—	e 26.3	—
Ekaterinburg	60.2	334	1 10 13	0	27.3	—
Leningrad	62.1	353	—	—	e 35.7	—
Pulkovo	62.4	353	—	—	e 41.0	—
Makeyevka	73.0	346	—	—	49.3	—
Baku	78.1	335	—	—	40.3	47.7

Additional readings: Toronto iE = +29m.32s., LE = +37.0m. Ekaterinburg i = +10m.25s. Baku MN = +55.2m., MZ = +58.9m.

Dec. 2d. Readings also at 0h. (Nagasaki and Sucre), 1h. (Sucre and Nagasaki), 2h. (Sucre, La Paz, and Nagasaki), 4h. (Nagasaki), 5h. (Nagasaki), 9h. (Granada), 10h. (Ekaterinburg), 13h. (Azores), 16h. (Sucre and La Paz (2)), 18h. (La Paz, Sucre, and Agana), 21h. (Taihoku), 22h. (Nagasaki and Mizusawa), 23h. (Toronto).

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Dec. 3d. 5h. 19m. 20s. Epicentre 34°0S. 73°0W. (as on 1926 Oct. 25d.).

A = +.242, B = -.793, C = -.559; D = -.956, E = -.292;
G = -.163, H = +.535, K = -.329.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	12.5	98	13 12	+ 6	5 30	- 2	6.7	—
Sucre	16.5	27	13 58	- 1	17 18	+11	8.3	9.5
La Paz	18.0	15	4 23	+ 6	8 10	+30	8.7	11.4
Toronto	77.7	355	—	—	25 40?	?	—	—
Ottawa	79.4	359	—	—	(e 21 40?)	-36	e 21.7	—
Puy de Dôme	105.3	44	—	—	—	—	e 72.7	—
Baku	135.0	65	—	—	—	—	e 64.7	—
Ekaterinburg	141.4	39	—	—	—	—	e 88.7	—
Irkutsk	161.6	5	e 19.56	[-13]	e 24 38	!PR ₁	—	—

Additional readings and notes: La Plata gives $T_0 = 5h.19m.38s.$ Sucre
 $i = +4m.35s. = PR_1 + 25s.$; $T_0 = 5h.19m.6s.$ La Paz $T_0 = 5h.18m.56s.$

Dec. 3d. 6h. 50m. 15s. Epicentre 47°2N. 6°0E. (as on 1925 Jan. 8d.).

A = +.676, B = +.071, C = +.734; D = +.105, E = -.995;
G = +.730, H = -.070, K = -.679.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Besançon	0.0	—	0 41	+41	—	—	—	—
Strasbourg	1.8	41	10 30	+ 2	10 45	- 6	—	—
Zurich	1.8	85	e 0 36	+ 8	10 53	+ 2	—	—

Additional readings: Strasbourg $iPR_1 = +0m.34s. = +6s.$, $PR_2 = +0m.42s.$,
 $iSR_1 = +0m.56s. = +6s.$

Dec. 3d. 22h. 42m. 45s. Epicentre 18°0S. 167°0E. (as on 1925 Nov. 28d.).

A = -.927, B = +.214, C = -.309; D = +.225, E = +.974;
G = +.301, H = -.070, K = -.951.

Some of the European observations may belong to the next shock.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	10.8	92	(13 15)	+34	—	—	(e 3.5)	—
Sydney	21.3	219	4 45	-12	—	—	8.9	12.7
Riverview	21.3	219	e 4 55	- 2	18 51	+ 1	e 10.5	13.5
Wellington	24.2	166	5 35	+ 5	e 9 45	- 3	12.2	—
Melbourne	27.7	220	e 7 33	+88	10 33	-21	—	16.9
Adelaide	30.4	231	11 1	?S	14 55	?	16.0	20.3
Honolulu	52.2	43	—	—	—	—	e 25.7	27.7
Honolulu Univ.	52.3	43	—	—	—	—	e 21.2	29.2
Batavia	59.8	273	110 10	- 1	118 25	+ 4	—	—
Irkutsk	88.7	327	e 13 14	+ 5	24 56	+56	45.2	—
Victoria	90.7	39	e 23 45	?[S]	(e 23 45)	[+131]	43.4	51.2
Chicago	113.2	50	—	—	—	—	e 63.2	65.5
Ekaterinburg	113.9	325	e 19 50	?PR ₁	29 17	?PS	55.2	64.1
Toronto	119.3	49	—	—	—	—	62.0	—
Ottawa	121.7	48	—	—	—	—	e 55.3	—
Baku	122.0	308	e 20 41	?PR ₁	e 31 17	?PS	e 57.2	—
Leningrad	127.9	334	—	—	—	—	69.8	—
Pulkovo	128.0	334	—	—	—	—	70.7	—
Rocca di Papa	147.7	323	e 19 44	[- 8]	—	—	48.7	56.2

Additional readings and notes: Suva $e = (+0m.15s.)$; all the readings have been increased by 3 min. Riverview $iS = +9m.9s.$, $MN = +12.8m.$
Adelaide $MN = +18.0m.$ Batavia $P = +10m.14s.$ Irkutsk $eS, P_1S = +23m.44s. = [S] + 24s.$ Ekaterinburg $MZ = +76.0m.$ Rocca di Papa $PN = +19m.52s., PE = +19m.53s.$

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Dec. 3d. 23h. 1m. 54s. Epicentre 47°·2N. 6°·0E. (Besançon ; as at 6h.).

A = +·676, B = +·071, C = +·734 ; D = +·105, E = -·995 ;
G = +·730, H = +·070, K = -·679.

The P readings for the four stations are nearly the same. If we could assume a focal depth large compared with the surface separations the observations might be satisfied ; as it is we must make some hypothesis of error at one station.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	1·8	41	10 32	+ 4	10 55	+ 4	—	—
Moncalieri	2·5	152	e 0 33	- 6	11 17	+ 8	2·2	—
Paris	2·8	304	e 0 38	- 6	—	—	—	—
Rocca di Papa N.	7·2	136	e 0 35	-74	—	—	—	0·9

Additional readings : Strasbourg P is \bar{P}_v ; $iPR_1 = +43s.$; S is \bar{S} ; SR = +1m.8s., iSR = +1m.20s. Rocca di Papa PN = +43s., PE = +44s.

Dec. 3d. 23h. 39m. 20s. Epicentre 51°·5S. 144°·5E. (as on 1926 July 25d.).

A = -·507, B = +·361, C = -·783.

Very doubtful. One or other station is apparently 6 min. in error.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	17·1	343	(4 17)	+11	(7 22)	+ 2	(7·9)	(10·2)
Riverview	18·3	18	e 4 8	-13	e 7 17	-30	e 10·2	14·2
Victoria E.	126·9	54	—	—	—	—	40·0	46·7
Strasbourg	152·5	281	—	—	—	—	e 29·7	—
San Fernando E.	154·4	246	—	—	—	—	—	46·7
Kew	158·3	284	—	—	—	—	e 26·7	—

Additional readings : Adelaide MN = (+10·6m.) ; all readings having been diminished by 6m. Riverview MN = +11·9m.

Dec. 3d. Readings also at 2h. (Victoria), 3h. (Colombo, Toronto, and Ottawa), 7h. (Nagasaki), 8h. (Nagasaki), 11h. (Taihoku), 13h. (Nagasaki), 14h. (Tucson and La Plata), 15h. (Piatigorsk and Baku), 18h. (Nagasaki), 20h. (Nagasaki), 21h. (Nagasaki and Baku (2)), 23h. (Nagasaki).

Dec. 4d. 11h. 15m. 23s. Epicentre 29°·6N. 87°·8E. (as on 1923 April 24d.).

A = +·033, B = +·869, C = +·494 ; D = +·999, E = -·038 ;
G = +·019, H = +·494, K = -·870.

An epicentre 1°·0 further south would suit Calcutta, Ekaterinburg, and Bombay (with assumed error of 1 min.) better.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta E.	7·1	176	1 37	-11	2 42	-31	3·7	—
N.	7·1	176	1 28	-20	2 34	-39	3·5	—
Bombay	17·3	235	e 8 19	?S	(e 8 19)	+54	11·3	—
Irkutsk	25·7	24	—	—	—	—	e 14·6	—
Ekaterinburg	33·2	333	7 5	+ 7	—	—	—	—
La Plata	150·7	251	—	—	—	—	27·1	—

Dec. 4d. Readings also at 4h. (Nagasaki), 5h. (Toronto, Ottawa, La Paz, and Sucre), 6h. (Nagasaki), 9h. (Nagasaki), 10h. (La Paz and Sucre), 13h. (near Victoria and near Baku), 18h. (La Paz, Sucre, and Cape Town), 19h. (Rocca di Papa, Moncalieri, and Baku), 21h. (Baku and near Sumoto).

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Dec. 5d. 5h. 52m. 24s. Epicentre 30°·2N. 140°·3E.

A = -·665, B = +·552, C = +·503; D = +·639, E = +·769;

G = -·387, H = +·321, K = -·864.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		5·7	331	1 29	+ 1	(2 40)	+ 4	2·7	—
Osaka		6·1	317	1 34	+ 1	(2 48)	+ 2	2·8	3·4
Sumoto		6·2	313	e 2 14	+39	2 50	+ 1	3·4	3·5
Kobe		6·3	318	e 1 25	- 1	2 49	- 3	2·8	2·9
Toyooka		7·1	322	1 47	- 1	3 9	- 4	e 4·2	—
Mizusawa	E.	8·9	5	2 13	- 2	3 55	- 6	—	—
	N.	8·9	5	2 12	- 3	3 56	- 5	—	—
Nagasaki		9·3	289	7 18	+298	—	—	—	—
Ekaterinburg		59·6	323	—	—	i 17 0	-78	—	—
Osaka MN		= +3·5m.							

Dec. 5d. 19h. 40m. 36s. (i) } Epicentre 27°·0N. 100°·0E. (as on 1925 Oct. 15d.).
19h. 44m. 8s. (ii) }

A = -·155, B = +·878, C = +·454; D = +·985, E = +·174;

G = -·079, H = +·447, K = -·891.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I Phu-Lien		8·6	134	e 1 29	-41	e 3 31	-22	3·7	4·3
I Calcutta	E.	11·5	253	3 41	+49	—	—	6·3	—
I	N.	11·5	253	3 55	+63	—	—	6·1	—
I Hong Kong		13·7	107	5 44	?S	(5 44)	-17	7·3	7·7
I Zi-ka-wel		19·2	72	—	—	e 8 33	+27	—	—
II		19·2	72	—	—	7 52	-14	—	—
II Taihoku	N.	19·4	91	e 6 13	+99	—	—	—	—
II Simla	N.	20·4	287	e 5 4	+18	—	—	—	—
I Hyderabad		22·1	249	4 49	-17	—	—	—	16·6
I Manila		23·1	118	—	—	e 10 0	+33	—	—
I Irkutsk		25·5	6	e 5 50	+ 7	e 10 47	+34	15·4	—
II Bombay		26·2	258	5 56	+ 6	10 8	-18	—	—
II Osaka		31·2	67	12 18	?S	(12 18)	+24	15·1	15·7
II Batavia	E.	33·8	170	—	—	i 12 28	-10	—	—
I Ekaterinburg		40·8	327	7 52	- 9	14 28	+10	21·9	25·9
I Baku		42·8	302	—	—	e 14 41	- 4	—	—
II		42·8	302	e 8 25	+ 8	e 14 46	+ 1	21·4	25·3
I Makeyevka		51·9	313	—	—	e 16 24	-19	25·4	32·4
II Kucino		52·4	321	—	—	—	—	e 27·4	31·5
I Pulkovo		56·8	326	e 10 28	+37	e 18 3	?PS	26·4	38·1
I Leningrad		56·8	326	—	—	e 15 54	-110	24·3	36·2
II Hamburg		68·6	320	—	—	—	—	e 34·9	—
II De Blit	E.	71·9	320	—	—	—	—	e 36·9	38·2
II Uccle		72·8	319	—	—	—	—	e 36·9	—
II Kew		75·7	320	—	—	—	—	e 35·9	—

Additional readings: Phu-Lien I MN = +4·0m., Osaka II MN = +17·3m.
Ekaterinburg I MN = +25·2m., MZ = +26·5m., Baku II MN = +28·1m.,
MZ = +31·8m., Pulkovo I MN = +33·9m., MZ = +38·0m., Leningrad I
+16m.6s., MN = +36·5m., MZ = +37·9m., De Blit II eLN = +34·9m.,
MZ = +44·7m.

Dec. 5d. 21h. 12m. 16s. Epicentre 37°·0N. 138°·5E. (as on 1925 Dec. 11d.).

A = -·599, B = +·529, C = +·602; D = +·663, E = +·749;

G = -·451, H = +·399, K = -·799.

Very doubtful.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		2·2	214	0 35	+ 1	—	—	1·4	1·9
Mizusawa	E.	2·9	44	0 49	+ 4	1 16	- 4	—	—
Osaka		3·5	227	2 29	?S	(2 29)	+52	2·9	3·8
Kobe	E.	3·6	230	—	—	—	—	—	4·4
Irkutsk		28·4	314	—	—	—	—	e 17·7	—
Ekaterinburg		53·5	319	—	—	—	—	32·7	—
Baku		66·2	305	—	—	—	—	41·7	—

Additional readings and notes: Mizusawa SN = +17s., Osaka MN = +3·9m., Kobe MN = +4·2m.

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Dec. 5d. Readings also at 0h. (Sucre), 1h. (La Paz and Baku), 2h. (Nagasaki), 3h. (Nagasaki and Sumoto), 5h. (near Sumoto), 7h. (La Paz), 12h. (Baku and Ekaterinburg), 14h. (Agana), 15h. (Strasbourg and Makeyevka), 16h. (Taihoku), 19h. (near Mizusawa).

Dec. 6d. Readings at 0h. (near Mizusawa (2)), 1h. (Nagasaki (2), Irkutsk, and Sucre), 4h. (Nagasaki), 9h. (Nagasaki (2), Baku, Paris, and La Plata), 11h., 12h., and 13h. (Nagasaki), 20h. (near Mizusawa), 23h. (near Irkutsk).

Dec. 7d. 2h. 8m. 50s. Epicentre $34^{\circ}0'S$. $57^{\circ}0'E$. (as on 1926 Dec. 2d.).

$$A = +.452, B = +.695, C = -.559; \quad D = +.839, E = -.545; \\ G = -.305, H = -.467, K = -.829.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	74.7	355	e 11 51	+ 4	e 21 21	- 1	35.7	40.8
Granada	90.8	317	—	—	—	—	e 50.2	55.1
San Fernando	91.8	315	—	—	—	—	47.7	58.7
Irkutsk	95.6	27	—	—	—	—	e 48.2	—

Additional readings: Baku MN = +47.7m., MZ = +48.3m. San Fernando MN = +52.7m.

Dec. 7d. 19h. 40m. 20s. Epicentre $47^{\circ}0'S$. $78^{\circ}0'W$. (as on 1921 July 7d.).

$$A = +.142, B = -.667, C = -.731; \quad D = -.978, E = -.208; \\ G = -.152, H = +.715, K = -.682.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	19.3	58	5 3?	+30	8 34	+26	10.7	—
Sucre	29.9	25	6 18	- 9	11 36	+ 4	15.3	17.8
La Paz	31.6	18	6 42	- 1	11 52	- 9	14.9	20.3

Additional readings and notes: La Plata gives the T, 19h.40m.49s. La Paz SN = +11m.47s.

Dec. 7d. Readings also at 2h. (Nagasaki (2)), 4h. (Baku (2)), 6h. (Irkutsk and Hong Kong), 8h. (Nagasaki (2) and Ekaterinburg), 10h. (Ekaterinburg), 11h. (Nagasaki and Tucson), 14h. (Nagasaki, Baku, and near Athens), 15h. (Baku), 16h. (Puy de Dôme), 17h. (Ekaterinburg), 20h. (Baku and Kucino), 21h. (La Paz, Sucre, and Irkutsk), 22h. (Baku).

Dec. 8d. Readings at 4h. (Strasbourg, Nagasaki, and near Athens), 9h. (Nagasaki), 11h. (Nagasaki), 12h. (Nagasaki), 13h. (Nagasaki), 14h. (Nagasaki and Baku), 15h. (Nagasaki), 16h. (Nagasaki and Manila), 17h. (Sucre and Batavia), 18h. (Nagasaki), 19h. (Nagasaki), 20h. (Strasbourg, Rocca di Papa, and Wellington), 22h. (Baku and Taihoku), 23h. (Tacubaya).

Dec. 9d. 0h. 40m. 38s. Epicentre $33^{\circ}0'N$. $121^{\circ}5'W$. (as on 1922 March 10d.).

$$A = -.438, B = -.715, C = +.545; \quad D = -.853, E = +.522; \\ G = -.284, H = -.464, K = -.839.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	4.3	358	e 1 15	+ 8	e 1 43	-15	e 1.8	—
Berkeley	4.9	352	e 1 29?	+13	e 2 12	- 2	—	—
	z.	4.9	352	e 1 24?	+ 8	e 2 14	0	—
Tucson	n.	9.0	92	4 18	+122	5 16	+73	5.9

Additional readings: Lick ePz = +1m.18s., ePN = +1m.19s., iRPSNZ? = +1m.40s. Berkeley iPR? = +1m.31s., PSRE? = +2m.2s. Tucson eE = +4m.35s., eN = +4m.50s., SE = +5m.25s., SN = +5m.28s., LE = +5.5m.

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Dec. 9d. 3h. 22m. 24s. Epicentre 24°·7N. 145°·3E. (as on 1926 April 22d.).

A = -·747, B = +·517, C = +·418; D = +·569, E = +·822;
G = -·344, H = +·238, K = -·909.

The material is scanty but seems to fit this isolated epicentre fairly well.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	14·8	347	—	—	18 54	?	—	—
Irkutsk	41·4	322	e 8 4	- 2	e 14 29	+ 2	30·6	—
Ekaterinburg	66·7	325	—	—	—	—	36·6	—
Baku	78·2	310	—	—	31 28	!SR ₂	49·6	53·4
De Bilt	95·7	337	—	—	—	—	e 59·6	—

Additional readings and notes: The Mizusawa observation probably belongs to a later shock, unless the time is 12 min. in error. Irkutsk e = +15m.58s. = SR₁ + 42s., e = +17m.34s. = SR₂ - 35s. Baku MZ = +59·2m., MN = +59·4m.

Dec. 9d. 12h. 6m. 42s. Epicentre 46°·5N. 28°·3W. (as on 1924 Dec. 7d.).

A = +·606, B = -·326, C = +·725; D = -·474, E = -·880;
G = +·639, H = -·344, K = -·688.

The material is scanty, and the evidence of Granada and Toledo is conflicting. The epicentre 45°·0N. 29°·0W. of 1926 Sept. 23 gives similar results, and no other which offers a decision between Granada and Toledo has yet been recorded. There was moreover an earlier shock (about 11h.53m), recorded by Baku, Kucino, Uccle, Irkutsk, Ekaterinburg, Piatigorsk, and Cape Town, but without sufficient precision to identify it.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toledo	18·8	102	1 36	?	—	—	—	11·5
San Fernando	19·3	114	—	—	—	—	—	9·3
Granada	20·5	108	e 4 48	+ 1	i 8 24	-10	—	10·9
Almeria	21·5	107	e 5 12	+13	—	—	—	9·4
Uccle	21·8	67	—	—	—	—	e 13·3	—
De Bilt	22·3	63	—	—	e 8 18?	-53	10·3	—

Almeria MZ = +10·4m. Granada i = +7m.5s.

Dec. 9d. 22h. 38m. 48s. Epicentre 29°·5S. 71°·0W. (as on 1926 May 13d.).

A = +·283, B = -·823, C = -·492; D = -·946, E = -·326;
G = -·160, H = +·466, K = -·870.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	11·7	28	2 53	- 2	5 16	+ 4	5·8	6·4
La Plata	12·3	119	3 4	+ 1	5 21	- 5	6·5	—
La Paz	13·3	12	e 2 58	-19	e 5 50	- 1	6·7	7·0

Dec. 9d. Readings also at 0h. (Tucson (3)), 2h. (Nagasaki), 5h. (Tucson), 6h. (Manila), 7h. (Nagasaki), 8h. (Nagasaki (2)), Mizusawa, and Hong Kong), 9h. (Nagasaki (2)), 11h. (Baku), 12h. (Kucino, Irkutsk, Piatigorsk, Ekaterinburg, and Cape Town; see note to Dec. 9d. 12h. 7m. 0s.), 13h. (Matuyama and Nagasaki), 14h. (Nagasaki), 19h. (Batavia and Irkutsk), 20h. (Irkutsk).

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Dec. 10d. 8h. 38m. 45s. Epicentre $41^{\circ}0'N$. $127^{\circ}0'W$. (as on 1925 Feb. 1d.).

A = -453, B = -603, C = +656; D = -799, E = +602;
G = -395, H = -524, K = -755.

The readings at several stations suggest that T_s should be about 20 sec. later.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	4.8	130	1 13?	-1	—	—	e 3.6	5.0
Santa Clara	5.2	130	e 2 25	18	(e 2 25)	+ 3	—	—
Lick	N. 5.7	132	e 1 57	+29	e 2 58	+22	(i 3.2)	6.4
Victoria	E. 7.8	17	2 2	+ 4	—	—	4.1	5.1
	N. 7.8	17	1 57	1	—	—	3.9	5.0
Spokane	9.4	42	(e 2 23)	+ 1	(i 4 4)	- 9	(i 4.3)	(5.3)
Tucson	E. 15.5	119	4 5	+19	e 7 19	+35	e 9.3	10.1
	N. 15.5	119	e 4 9	+23	e 7 14	+30	e 8.4	10.0
Sitka	N. 16.9	344	—	—	6 26	-50	8.6	10.4
Saskatoon	17.7	44	e 4 17	+ 4	1 7 43	+10	e 9.6	11.4
St. Louis	N. 28.1	83	—	—	e 11 21	+ 1	e 15.4	17.8
Chicago	E. 29.2	75	e 6 23	+ 3	11 11	- 9	14.2	18.4
	N. 29.2	75	—	—	e 11 21	+ 1	14.0	18.6
Loyola	31.7	100	—	—	11 47	-16	17.8	24.1
Ann Arbor	31.9	75	—	—	—	—	e 14.4	20.4
Honolulu Univ.	E. 32.7	243	—	—	—	—	e 15.0	15.7
Honolulu	N. 32.8	243	—	—	—	—	i 14.7	16.6
Toronto	34.7	70	—	—	e 12 29	-22	18.2	20.8
Ottawa	36.9	66	—	—	i 13 15	- 7	e 18.8	23.2
Ithaca	37.1	72	—	—	—	—	19.8	—
Fordham	39.5	74	7 17	-34	13 39	-20	e 18.8	22.0
Harvard	E. 40.9	69	—	—	—	—	e 21.2	25.0
	N. 40.9	69	—	—	18 21	?SR ₂	e 21.1	25.6
Edinburgh	72.0	29	—	—	—	—	41.2	—
Kew	76.5	32	—	—	—	—	e 31.2	—
Irkutsk	76.7	331	e 12 12	+13	—	—	41.2	—
De Bilt	78.0	28	—	—	—	—	e 33.2	47.5
Uccle	78.7	29	—	—	—	—	e 33.2	—
Paris	79.7	31	—	—	e 35 15?	?	43.2	44.2
Strasbourg	81.9	31	—	—	—	—	e 41.2	50.2
Ekaterinburg	81.9	358	—	—	—	—	41.2	—
Cheb	82.2	26	—	—	—	—	e 56.2	60.2
Moncalieri	84.9	30	e 38 9	?	45 23	?L	(45.4)	—
Vienna	Z. 85.0	24	e 12 55	+ 7	—	—	—	—
San Fernando	85.4	45	—	—	—	—	—	50.8
Granada	86.4	43	e 13 3	+ 8	e 23 36	+ 2	43.2	47.2
Florence	87.2	30	e 42 15	?L	—	—	(e 42.2)	51.6
Rocca di Papa	89.4	29	—	—	—	—	e 46.4	55.4
Makeyevka	89.9	10	—	—	—	—	51.2	—
Baku	98.6	3	—	—	—	—	46.2	55.5

Additional readings and notes: Berkeley eZ = +1m.30s., ePEN = +1m.35s., eZ = +1m.36s., and +2m.36s., eE = +2m.39s., eN = +2m.47s. Santa Clara ePE? = +2m.48s., iSE = +3m.24s., and +4m.4s., iE = +5m.12s. Lick eZ = +2m.56s., eE = +3m.3s., iN = +3m.10s. (entered as L) and +4m.2s. Spokane ePE = (+2m.24s.), iEN = (+3m.17s.); all readings have been increased by 2m. Tucson ePR₁N = +4m.24s., eN = +5m.5s., iSN = +7m.21s., eE = +8m.37s. Saskatoon MN = +10.5m.; T₂ = 8h.38m.46s. St. Louis ePR₁N = +6m.57s., eN = +8m.8s., eSR₁N = +11m.56s., iSR₂N = +12m.37s. Chicago eN = +12m.5s. and +12m.31s. = SR₁ - 11s. Ann Arbor eE = +14m.33s. and +17m.3s., eN = +16m.9s. Toronto iE = +12m.37s. = S - 14s., eN = +13m.15s. ? and +15m.15s. ? = SR₂ - 10s. Ottawa eN = +13m.37s., MN = +21.2m. Fordham PR₂ = +10m.5s.; T₂ = 8h.39m.10s.; epicentre $41^{\circ}7'N$. $126^{\circ}7'W$. Harvard eE = +20m.32s., eN = +20m.53s. Irkutsk e = +15m.13s. = PR₁ - 8s. De Bilt MN = +42.0m., MZ = +50.2m. Baku MN = +60.4m.

Dec. 10d. Readings also at 0h. (near Manila), 2h. (Baku, Irkutsk, San Juan, and Port au Prince), 4h. (near Berkeley, Lick, and Santa Clara), 5h. (near Manila), 12h. (La Paz and Taihoku), 19h. (Nagasaki), 20h. (Tucson, Tacubaya, Manzanillo, and Guadalajara), 22h. (near Sucre), 23h. (near La Paz).

Dec. 11d. Readings at 4h. (near Tacubaya), 5h. (Irkutsk), 9h. (Ekaterinburg), 12h. and 13h. (Nagasaki), 16h. (Agana), 17h. (Riverview and Perth), 18h. (Irkutsk), 20h. (La Paz), 22h. (Wellington, Sydney, and Strasbourg), 23h. (Baku).

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Dec. 12d. 22h. 1m. 12s. Epicentre 35°·5N. 141°·0E. (as on 1925 March 31d.).

A = -·633, B = +·512, C = +·581; D = +·629, E = +·777;
G = -·451, H = +·365, K = -·814.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		3·4	265	e 0 47	- 6	(1 29)	- 5	1·5	1·9
Mizusawa	E.	3·6	1	0 52	- 4	1 37	- 2	—	—
	N.	3·6	1	0 51	- 5	1 36	- 3	—	—
Osaka		4·6	261	1 11	0	(2 9)	+ 3	2·2	3·1
Kobe		4·9	262	1 18	+ 2	(2 14)	0	2·2	2·4
Toyooka		5·0	273	1 21	+ 4	(2 21)	+ 4	2·4	2·5
Sumoto		5·2	258	e 1 30	+10	—	—	2·6	3·0
Zi-ka-wei		16·9	261	e 4 50	+46	e 8 13	+57	—	—

Additional readings: Nagoya P = +1m.0s. Osaka MN = +3·2m. Kobe MN = +3·4m. Zi-ka-wei P is given simply as eZ.

Dec. 12d. Readings also at 0h. (Granada and Spokane), 5h. (La Paz and Strasbourg), 6h. and 7h. (Nagasaki), 8h. (Taihoku), 13h. (near Athens), 15h. (Taihoku), 19h. (Taihoku and Zi-ka-wei), 20h. (Irkutsk), 21h. (La Paz).

Dec. 13d. Readings at 1h. (near Tacubaya), 5h. (Spokane), 10h. (Rocca di Papa, near Batavia, and Malabar), 14h. and 15h. (Nagasaki), 21h. (Taihoku).

Dec. 14d. 17h. 10m. 22s. Epicentre 14°·0S. 119°·5E.

A = -·478, B = +·845, C = -·242; D = +·870, E = +·492;
G = +·119, H = -·211, K = -·970.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina		13·4	40	i 2 14	-64	—	—	6·2	—
Malabar		13·5	299	3 31	+11	6 3	+ 7	8·6	—
Batavia		14·7	301	3 45	+10	—	—	—	—
Perth		18·3	190	i 4 18	- 3	i 7 30	-17	9·3	12·1
Adelaide		27·1	144	e 5 41	-18	e 10 8	-35	11·8	16·6
Manila		28·6	3	e 6 19	+ 5	(i 11 23)	+13	111·4	—
Melbourne		32·8	141	—	—	e 12 26	+ 5	i 18·0	20·8
Riverview		34·9	131	e 7 3	- 9	e 12 35	-19	e 17·4	21·5
Sydney	E.	34·9	131	11 22	+250	17 38	+284	21·1	21·9
Hong Kong		36·7	353	7 8	-20	—	—	—	18·6
Phu-Lien		37·0	340	i 7 17	-13	—	—	18·1	—
Hyderabad		51·3	308	9 14	- 1	16 36	+ 1	26·7	32·5
Bombay		56·5	306	9 47	- 2	17 47	+ 7	e 30·2	—
Irkutsk		67·6	350	1 11 1	- 1	19 56	- 1	32·6	—
Baku		84·3	315	i 12 43	- 1	1 23 7	- 4	42·1	50·6
Ekaterinburg		85·9	332	12 47	- 6	1 23 9	[+ 8]	38·6	46·8
Makeyevka		94·7	318	—	—	e 24 3	[+ 8]	36·6	56·7
Pulkovo		101·6	330	—	—	24 20	[-12]	47·6	64·4
Leningrad		101·7	330	—	—	—	—	e 21·8	—
Strasbourg		114·8	317	e 19 38?	?PR ₁	e 29 38?	?PS	e 61·6	—
De Bilt		115·9	321	—	—	e 29 44	?PS	e 59·6	68·0
Uccle		116·6	320	—	—	—	—	e 59·6	—
Kew		119·3	321	—	—	—	—	e 58·6	—
Granada		124·6	305	i 20 52	?PR ₁	e 31 31	?PS	70·1	73·0
La Paz		148·6	165	19 59	[+ 5]	—	—	82·7	87·3

Additional readings and notes: Amboina L = +9·6m. Malabar i = +3m.36s. Batavia iPZ = +3m.48s. = PR₁ + 5s., i = +3m.54s. = PR₁ + 21s. and +6m.54s. = SR₁ + 14s., iN = +8m.15s. Adelaide MN = +16·8m. Melbourne i = +20m.2s. Riverview MN = +19·1m. Sydney: Query reduce all readings by 4 min. Phu-Lien e = +8m.48s. = PR₁ + 2s. Irkutsk PR₁ = +15m.13s., SR₁ = +28m.7s. Baku MZ = +58·6m. Ekaterinburg iPR₁ = +16m.11s., iPS = +23m.37s. = S + 8s., iPPS = +24m.22s. = PS + 4s., SR₁ = +28m.48s., SR₂ = +32m.38s., MN = +46·0m., MZ = +55·5m. La Paz P = +46m.6s.

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Dec. 14d. Readings also at 5h. (Batavia), 9h. (near La Paz), 12h. (Taihoku), 13h. (near La Paz), 19h. (Ekaterinburg), 21h. (Zagreb), 23h. (Pulkovo, Ekaterinburg, near Hukuoka, and near Nagasaki).

Dec. 15d. 13h. 58m. 52s. Epicentre 46°·7N. 7°·2E. (given by De Bilt).

A = +·680, B = +·086, C = +·728 ; D = +·125, E = -·992 ;
G = +·722, H = +·091, K = -·686.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Besançon	0·9	304	10 11	- 3	10 22	- 3	—	—
Zurich	1·1	55	10 14	- 3	10 31	0	—	—
Chur	1·6	85	10 24	0	10 45	0	—	—
Moncalieri	1·8	168	0 30	+ 2	1 11	+20	—	—
Strasbourg	1·9	12	e 0 27	- 2	10 54	+ 1	—	1·5
Ravensburg	1·9	57	10 29	0	10 48	- 5	10·9	1·0
Hohenheim	2·4	34	10 38	+ 1	11 7	+ 1	—	1·3
Innsbruck	2·9	79	e 0 50	+ 5	11 26	+ 6	—	—
Puy de Dôme	3·1	253	—	—	1 32	+ 6	—	—
Paris	3·8	306	e 0 54	- 5	e 1 12	?	e 2·0	2·1
Uccle	4·5	337	e 1 8?	- 2	e 2 15	+11	—	—
De Bilt	5·4	345	—	—	—	—	e 3·1	—
Graz	5·7	84	e 1 36	+ 8	e 2 26	-10	—	3·0
Zagreb	6·1	95	—	—	—	—	e 3·1	—
Vienna	6·4	73	2 38	+60	3 39	+44	—	4·0

Additional readings : Strasbourg $iPR_1 = +31s.$, $PR = +34s.$, $iSR_1 = +57s.$,
 $SR = +1m.9s.$ Hohenheim $PR_1 = +51s.$, $MN = +1·2m.$ Innsbruck
 $S = +2m.4s.$; true S is given as 1. Puy de Dôme $ePR_1 = +58s.$, $PR =$
 $+1m.4s.$, $iSR_1 = +1m.37s.$, $SR_1 = +2m.4s.$ Vienna $PR = +3m.10s.$
and $+3m.33s.$

Dec. 15d. 23h. 20m. 42s. Epicentre 7°·0S. 121°·5E. (adapted from 7°·5S. 121°·5E. of 1918 Oct. 9d.).

A = -·519, B = +·846, C = -·122 ; D = +·853, E = +·522 ;
G = +·064, H = -·104, K = -·993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Manila	21·6	359	14 59	- 1	(8 53)	- 4	8·9	—
Melbourne	37·4	149	—	—	e 12 6	-84	—	22·7
Riverview	38·3	140	e 7 40	0	e 13 42	0	e 17·7	20·0
Sydney	38·3	140	—	—	—	—	—	20·6
Wellington	58·2	135	—	—	—	—	126·4	—
Irkutsk	61·1	349	e 9 52	-28	e 18 4	-33	28·3	—
Ekaterinburg	80·7	330	e 12 16	- 7	22 33	+ 2	37·3	43·4
Pulkovo	96·7	330	—	—	—	—	e 49·3	—
De Bilt	111·5	323	—	—	—	—	e 56·3	—
Kew	114·9	324	—	—	—	—	e 57·3	—
La Paz	154·6	153	20 22	[+20]	—	—	—	—

Additional readings : Riverview $MN = +19·8m.$, $MZ = +22·9m.$ Wellington
 $i = +23m.4s.$

Dec. 15d. Readings also at 0h. (Tucson, Strasbourg, Leningrad, and near Mizusawa), 1h. (Apia), 2h. (La Paz), 4h. (Azores), 5h. (Melbourne, Granada, Ekaterinburg), 6h. (Puy de Dôme), 14h. (near Zurich), 17h. (near Nagoya), 18h. (Nagasaki and near Toyooka), 23h. (Strasbourg).

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Dec. 16d. 0h. 24m. 8s. Epicentre 10°5S. 174°5W.

A = -0.979, B = -0.094, C = -0.182; D = -0.096, E = +0.995;
G = +0.181, H = +0.017, K = -0.983.

A very puzzling case. The distant stations suggest either a mistake of 1 min. in T, or a deep focus; but the nearer ones, with the possible exception of Irkutsk, cannot be reconciled with either of these hypotheses.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m.	m.		
Apia	4.3	142	1	8	+	1	58	0		2.3	3.4
Suva	10.3	221	12	34		0	14	40	+ 3	15.4	6.2
Wellington	32.2	195	18	22	?	PR ₁				e 9.9	—
Honolulu	N. 35.7	28	—	—	—	—	—	—	—	e 19.3	28.4
Honolulu Univ.	E. 35.8	28	—	—	—	13	56	+49		e 17.4	20.0
Riverview	39.1	229	e 3	16	?	14	16	+23		e 15.6	18.4
Sydney	E. 39.1	229	—	—	—	—	—	—		16.9	18.7
Melbourne	45.4	227	—	—	—	—	—	—		—	26.6
Zi-ka-wei	74.1	309	e 9	43	-120	—	—	—		—	48.4
Irkutsk	93.0	324	e 13	1	-31	e 23	21	[-25]		47.9	—
Toronto	E. 100.9	48	—	—	—	—	—	—		55.9	—
La Paz	102.4	110	16	48	?	—	—	—		48.4	63.5
Ottawa	E. 103.6	46	—	—	—	e 27	52?	?	PS	e 55.9	—
La Plata	104.9	132	—	—	—	—	—	—		55.1	—
Ekaterinburg	117.4	330	17	58	[-47]	—	—	—		47.9	67.8
Leningrad	127.2	343	e 22	16	?	PR ₁				46.9	76.5
Pulkovo	127.4	343	e 18	10	[-62]	i 21	50	?	PR ₁	69.9	79.4
Kucino	128.1	336	—	—	—	—	—	—		e 61.2	—
Baku	130.8	315	e 18	19	[-61]	e 21	5	?	PR ₁	—	91.5
Makeyevka	133.6	330	e 21	52?	?	PR ₁				68.9	79.0
Hamburg	136.7	356	e 18	34	[-59]	—	—	—		40.9	—
Vienna	Z. 141.1	348	e 18	41	[-60]	—	—	—		—	—
De Bilt	138.4	0	18	45	[-52]	—	—	—		e 84.9	—
Kew	138.8	5	e 17	48	[-110]	—	—	—		71.9	—
Uccle	139.7	1	e 18	42	[-57]	—	—	—		e 77.9	—
Cheb	140.0	352	—	—	—	—	—	—		e 79.9	92.9
Strasbourg	141.9	358	e 18	31	[-72]	—	—	—		75.9	95.9
Zagreb	143.5	347	e 18	58	[-48]	—	—	—		—	—
San Fernando	E. 152.0	20	—	—	—	—	—	—		—	93.4
Granada	152.1	16	i 19	13	[-46]	—	—	—		e 83.9	90.6

Additional readings: Apia MN = +9.2m. Honolulu University eE = +14m.37s. Riverview MN = +20.3m. Irkutsk ePS = +26m.24s.
Ekaterinburg MN = +57.4m., MZ = +69.8m. Leningrad MN = +79.6m.
Pulkovo MZ = +74.9m. Baku MZ = +78.8m. Makeyevka e = +31m.51s. and +40m.52s.? MZ = +83.1m., MN = +83.2m. Vienna iPZ = +18m.49s. Strasbourg ePR₁ = +22m.29s. San Fernando MN = +92.9m. Granada i = +19m.54s.

Dec. 16d. 3h. 41m. 0s. Epicentre 14°0S. 174°0W. (as on 1926 Nov. 3d.).

A = -0.965, B = -0.101, C = -0.242; D = -0.105, E = +0.995;
G = +0.241, H = +0.025, K = -0.970.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m.	m.		
Apia	2.2	86	e 0	30	-4	e 1	15	+15		2.0	5.3
Suva	8.4	240	(1 48)	—	-19	(3 42)	—	-5		(4.9)	(6.0)
Honolulu	N. 38.7	24	—	—	—	—	—	—		e 19.1	21.5
Honolulu Univ.	E. 38.7	24	—	—	—	—	—	—		e 18.5	19.5
Irkutsk	96.1	322	—	—	—	—	—	—		50.0	—
Ottawa	105.7	46	—	—	—	—	—	—		e 56.0	—
Ekaterinburg	120.6	329	—	—	—	e 38	8	?	SR ₁	53.0	—
Leningrad	130.7	344	—	—	—	—	—	—		e 67.0	—
Pulkovo	130.9	344	—	—	—	—	—	—		e 72.0	—
Baku	133.6	313	—	—	—	—	—	—		e 64.0	—
Makeyevka	136.9	329	—	—	—	—	—	—		71.0	—
Uccle	143.2	3	—	—	—	—	—	—		e 81.0	—
Strasbourg	145.4	358	—	—	—	—	—	—		—	82.0

Additional notes: Apia readings are given as e's simply. Suva readings are given as S and SR₁ respectively, and all readings have been diminished by 1m.

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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Dec. 16d. 17h. 53m. 50s. Epicentre 39°·0N. 31°·0E. (as on 1925 Sept. 20d.).

A = +·666, B = +·400, C = +·629; D = +·515, E = -·857;
G = +·539, H = +·324, K = -·777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5·8	261	1 40	+10	1 2 59	+20	3·2	4·2
Helwan	9·1	173	—	—	—	—	e 4·7	12·6
Belgrade	9·8	310	e 1 42	-45	1 3 37	-46	1 3·8	4·0
Makeyevka	10·3	27	2 10	-24	4 19	-18	5·9	8·4
Mostar	10·8	298	1 34	-67	3 19	-91	—	4·0
Lemberg	11·9	337	e 4 34	?	e 5 28	+11	—	9·4
Budapest	12·2	313	e 4 10?	+63	—	—	e 7·2	8·9
Pompeii	12·7	283	e 5 52	?S	(e 5 52)	+15	(e 7·9)	10·2
Zagreb	13·0	306	e 3 8	- 5	e 5 52	+ 8	i 7·2	7·9
Naples	13·0	283	e 6 2	?S	(e 6 2)	+18	e 7·5	—
Graz	13·9	310	e 3 19	- 6	6 40	+34	7·2	8·7
Vienna	14·1	316	e 3 20	- 7	6 45	+35	—	10·2
Rocca di Papa	14·2	286	e 3 44	+15	—	—	i 7·9	10·1
Baku	14·5	79	e 3 46	+13	e 6 36	+16	8·0	9·6
Venice	15·2	301	e 3 52	+10	7 51	+74	9·4	—
Florence	15·5	294	e 3 40	- 6	7 50	?L	(7·8)	9·2
Innsbruck	16·5	306	3 58	- 1	—	—	—	10·0
Cheb	17·2	316	e 4 4	- 3	e 9 24	?L	(e 9·4)	11·7
Kucino	17·4	13	2 52	-78	5 32	-115	6·2	13·0
Chur	17·5	304	e 4 8	- 3	—	—	—	—
Ravensburg	17·8	307	i 4 10	- 5	e 9 10	?L	e 11·3	13·4
Moncalieri	18·2	297	4 6	-13	7 50	+ 6	9·8	13·2
Potsdam	18·2	323	i 4 10	- 9	i 7 26	-20	i 11·6	—
Zurich	18·3	304	e 4 16	- 5	—	—	—	—
Hohenheim	18·4	309	e 4 19	- 3	e 10 2	?L	e 11·8	12·1
Strasbourg	19·3	307	e 4 29	- 4	i 7 57	-11	10·2	11·4
Besançon	19·9	303	4 46	+ 6	8 23	+ 2	—	12·2
Hamburg	20·4	323	e 4 39	- 7	18 19	-13	e 11·5	14·3
Pulkovo	20·7	359	4 34	-15	7 47	-51	11·7	15·0
Leningrad	21·0	359	i 4 36	-17	7 50	-54	10·0	15·1
Puy de Dôme	21·7	298	e 5 0	- 1	—	—	e 11·7	—
De Bilt	22·1	315	5 3	- 3	8 54	-13	e 11·2	13·6
Uccle	22·1	311	4 59	- 7	i 8 52	-15	e 10·7	—
Barcelona	22·1	286	—	—	e 12 1	?L	e 12·4	15·2
Algiers	22·1	272	—	—	e 9 23?	+16	—	17·7
Paris	22·6	305	e 5 10	- 2	19 8	- 9	12·2	12·2
Upsala	22·6	342	e 4 56	-16	18 56	-21	e 10·2	15·4
Kew	25·0	310	e 5 34	- 4	e 9 49	-14	12·2	15·3
Oxford	25·7	313	—	—	10 0	-16	16·1	16·2
Ekaterinburg	26·3	38	1 5 43	- 8	1 10 6	-22	12·2	18·3
Toledo	26·9	283	e 5 54	- 3	e 10 26	-13	e 13·1	18·8
Stonyhurst	27·1	314	—	—	1 10 27	-16	e 18·2	—
Granada	27·2	277	—	—	—	—	e 13·2	16·3
Bidston	27·3	313	—	—	—	—	17·2	—
Edinburgh	28·2	318	—	—	1 10 54	- 9	—	—
San Fernando	29·3	277	—	—	—	—	14·2	17·2
Bombay	41·3	107	—	—	e 14 35	+10	—	—
Hyderabad	46·4	105	—	—	—	—	—	27·9
Irkutsk	50·6	50	e 11 29	?PR ₁	e 20 5	?SR ₁	29·2	—

Additional readings: Athens iLN = +3·3m., MN = +3·8m. Belgrade
e = +2m.25s., and +3m.8s., i = +3m.27s. Makeyevka i = +3m.56s.,
MZ = +8·3m. Lemberg MN = +9·2m. Zagreb e = +3m.10s. and
+5m.6s., i = +6m.14s. and +6m.36s. Graz iP = +3m.20s. Vienna
iZ = +4m.3s. and +6m.36s., iN = +5m.40s., SR₁ = +7m.29s., SR₂ = +7m.40s.
Baku MZ = +10·6m., MN = +18·2m. Rocca di Papa iPN = +3m.55s.,
eE = +6m.40s., eN = +6m.45s. Venice ePE = +5m.3s., PN = +5m.21s.,
SE = +7m.58s., SN = +8m.25s. Florence iP = +6m.50s. Innsbruck
MNW = +10·4m. Kucino e = +4m.34s. = P +24s. Ravensburg iN =
+4m.40s. and +6m.40s., iPR₁N = +5m.26s., MN = +10·9m. Moncalieri
MN = +10·9m. Hohenheim eN = +7m.38s. = S -11s., eSN? = +10m.28s.
Strasbourg SR₂ = +10m.48s. Hamburg MZ = +13·9m., MN = +18·3m.
Pulkovo MNZ = +14·6m. Leningrad MNZ = +14·7m. Puy de Dôme
i = +5m.4s. and +5m.7s., e = +9m.48s. De Bilt MZ = +17·6m.
Barcelona MN = +16·4m. Upsala ME = +15·1m. Kew MN =
+18·0m. Oxford MN = +16·7m. Ekaterinburg i = +10m.17s.,
iSR₁ = +11m.19s., MN = +15·7m. Toledo MNW = +18·7m. San
Fernando MN = +18·2m.

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Dec. 16d. Readings also at 2h. (Ekaterinburg, Irkutsk, and near Manila), 3h. (Apia, Suva, and Honolulu University), 4h. (Honolulu, Ottawa, Baku, Makeyevka, Irkutsk, Ekaterinburg, Pulkovo, and Leningrad), 5h. (Strasbourg and Uccle), 7h. (Batavia), 8h. (Nagasaki (2)), 12h. (near Hyderabad), 17h. and 18h. (Athens), 19h. (Mizusawa), 20h. (near Chur), 22h. (Amboina, Apia, and Baku), 23h. (Baku and near Mizusawa).

Dec. 17d. 6h. 17m. 33s. Epicentre $41^{\circ}0'N$. $19^{\circ}5'E$. (as on 1923 Sept. 27d.).

A = +.711, B = +.252, C = +.656 ; D = +.334, E = -.943 ;
G = +.618, H = +.219, K = -.755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	2.6	332	0 47	+ 6	1 12	0	—	1.4
Sarajevo	3.0	345	e 0 45	- 2	1 21	- 2	—	2.6
Athens	4.5	131	—	—	—	—	e 2.4	—
Rocca di Papa	5.2	281	e 1 27	+ 7	—	—	1 3.2	—
Zagreb	5.4	333	e 2 49	?L	—	—	(e 2.8)	—
Puy de Dôme	12.9	298	0 27?	?	—	—	—	—

Additional readings : Sarajevo $i = +49s$. Rocca di Papa $eN = +1m.40s$.
Zagreb gives several other e readings.

Dec. 17d. 6h. 20m. 45s. Epicentre $41^{\circ}0'N$. $19^{\circ}5'E$. (as at 6h. 17m.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sarajevo	3.0	345	e 0 42	- 5	1 18	- 5	—	1.8
Belgrade	3.9	10	e 1 10	+ 9	e 1 48	+ 1	—	2.0
Naples	4.0	279	e 1 9	+ 7	e 3 59	?	—	—
Athens	4.5	131	e 1 8	- 2	2 5	+ 1	2.3	2.6
Rocca di Papa	5.2	281	e 1 1	-19	—	—	—	3.4
Zagreb	5.4	333	e 1 54	+31	e 2 31	+ 3	e 2.7	—
Budapest	6.5	358	e 1 15?	-24	—	—	—	—
Graz	6.7	336	e 1 43	+ 1	e 3 27	+25	3.5	4.0
Florence	6.8	297	1 10	-34	—	—	—	5.2
Venice	6.8	312	1 42	- 2	—	—	—	—
Innsbruck	8.5	321	e 2 15	+ 6	i 3 50	0	—	—
Chur	9.2	312	e 0 35	-104	—	—	—	—
Moncalieri	9.5	299	3 41	+78	5 34	?L	(5.6)	—
Ravensburg	9.8	318	e 1 21	-66	—	—	e 5.4	5.8
Cheb	10.4	334	—	—	—	—	e 5.6	—
Hohenheim	10.6	321	—	—	—	—	e 5.0	—
Strasbourg	11.2	317	e 3 4	+17	—	—	e 6.1	6.6
Algiers	13.4	257	2 54	-24	—	—	e 7.2	8.2
Uccle	14.4	318	—	—	—	—	8.2	—
De Bilt	14.8	324	—	—	—	—	e 8.2	—
Makeyevka	14.9	55	—	—	e 6 42	+12	e 9.2	—
Kew	17.1	315	—	—	—	—	8.2	—
Pulkovo	19.9	16	e 4 29	-11	e 12 23	?L	(e 12.4)	—
Ekaterinburg	30.7	45	e 6 17	-18	16 33	?L	(16.6)	—

Additional readings : Sarajevo $P = +45s$. Belgrade $i = +1m.18s$ and
 $+1m.39s$, $e = +1m.21s$. Rocca di Papa $E = +39s$. Venice $PN =$
 $+49s$, $PE = +1m.15s$. Strasbourg $MN = +6.7m$. Makeyevka readings
are given as e.

Dec. 17d. 6h. 31m. 5s. Epicentre $41^{\circ}0'N$. $19^{\circ}5'E$.

(as at 6h. 20m.).

A = +.711, B = +.252, C = +.656 ; D = +.334, E = -.943 ;
G = +.618, H = +.219, K = -.755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	2.6	332	10 31	-10	1 3	- 9	—	1.6
Sarajevo	3.0	345	10 48	+ 1	1 23	0	—	2.0
Sebenico	3.8	317	e 0 48	-11	i 1 31	-13	i 1.7	1.7
Belgrade	3.9	10	e 0 59	- 2	i 1 44	- 3	—	2.5
Naples	4.0	279	e 0 39	-23	e 1 29	-21	—	3.6

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.
Athens	4.5	131	1 10	0	12 7	+ 3	2.3	3.0
Rocca di Papa	5.2	281	e 1 22	+ 2	12 15	- 7	4.2	4.9
Zagreb	5.4	333	e 1 23	0	12 31	+ 3	—	3.2
Budapest	6.5	358	2 22	+43	—	—	e 3.9	4.5
Graz	6.7	336	e 1 48	+ 6	13 8	+ 6	3.9	4.2
Florence	6.8	297	e 1 10	-34	3 5	0	—	7.4
Venice	6.8	312	1 30	-14	3 55	+50	—	—
Vienna	7.6	344	e 1 57	+ 2	3 35	+ 9	14.6	4.8
Innsbruck	8.5	321	i 2 14	+ 5	13 48	- 2	—	—
Chur	9.2	312	i 2 19	0	—	—	—	—
Lemberg	9.4	18	—	—	e 4 13	0	—	5.3
Moncalieri	9.5	299	2 49	+26	4 17	+ 1	5.9	9.7
Ravensburg	9.8	318	e 2 3	-24	e 4 21	- 2	e 5.2	6.0
Zurich	10.1	313	e 2 44	+13	e 4 32	0	—	—
Cheb	10.4	334	—	—	e 4 41	+ 1	—	6.7
Hohenheim	10.6	321	e 2 35	- 3	e 5 7	+22	15.8	6.2
Strasbourg	11.2	317	e 2 43	- 4	—	—	—	7.3
Besançon	11.5	307	e 2 50	- 2	4 49	- 8	6.8	—
Puy de Dôme	12.9	298	e 4 25	+73	—	—	i 7.2	8.9
Barcelona	13.0	278	—	—	—	—	e 6.9	9.8
Algiers	13.4	257	e 3 19	+ 1	5 59	+ 6	8.2	8.9
Hamburg	14.1	336	e 3 27	0	e 6 10	0	e 6.9	9.5
Tortosa	14.3	276	—	—	8 35	+140	9.8	10.7
Paris	14.3	309	e 3 44	+14	e 6 43	+28	7.4	9.9
Uccle	14.4	318	e 3 49	+17	—	—	e 7.5	—
De Bilt	14.8	324	—	—	e 6 43	+16	e 7.4	10.4
Makeyevka	14.9	55	e 3 32	- 6	e 6 32	+ 2	7.9	9.6
Alicante	15.6	267	4 7	+20	7 12	+26	8.0	11.0
Kew	17.1	315	e 4 7	+ 1	7 17	- 3	8.9	13.8
Almeria	17.4	264	4 27	+17	—	—	e 10.3	11.0
Oxford	17.8	314	—	—	e 7 43	+ 7	e 9.1	14.7
Toledo	17.9	274	e 4 28	+12	17 40	+ 2	e 8.1	13.1
Granada	18.3	265	i 4 27	+ 6	7 46	- 1	10.2	12.2
Upsala	18.9	358	e 4 19	- 9	e 7 41	-19	e 10.4	12.0
Malaga	19.1	265	4 38	+ 8	8 0	- 4	11.6	13.3
Stonyhurst	19.5	319	—	—	—	—	e 10.9	14.9
Bidston	19.6	317	—	—	7 55?	-20	—	—
Pulkovo	19.9	16	4 33	- 7	8 14	- 7	10.9	14.5
Leningrad	20.1	16	4 31	-11	8 11	-14	9.1	14.3
Rio Tinto	20.4	269	6 55?	+ 9	—	—	—	18.9
San Fernando	20.5	266	3 15	-92	18 45	+11	—	13.9
Edinburgh	21.8	325	—	—	—	—	i 11.2	14.9
Baku	22.9	81	e 5 8	- 8	19 38	+15	e 15.4	17.8
Ekaterinburg	30.7	45	i 6 18	-17	i 11 20	-26	12.9	19.5
Irkutsk	55.9	47	e 9 54	+ 9	—	—	30.9	36.2
Ottawa	65.3	310	—	—	e 19 31	+ 2	e 28.9	—
Toronto	68.4	310	—	—	—	—	e 39.2	—
Chicago	74.2	312	—	—	—	—	34.9	46.9
Victoria	84.8	336	—	—	—	—	50.4	52.2

Additional readings: Sarajevo P = +54s. Belgrade iP = +1m.2s., iS = +1m.46s., MN = +2m., and many i's. Sebenico iP = +1m.2s. and many i's. Athens iP = +1m.20s. Rocca di Papa iP = +1m.25s., iE = +1m.32s., Zagreb iP = +1m.40s. and +1m.46s., i = +1m.54s., +2m.4s., and +2m.41s., iS = +2m.57s. Florence iP = +1m.55s. Venice P = +2m.37s., S = +4m.0s. Vienna iZ = +2m.10s. and +2m.25s., iE = +2m.20s., PR₁ = +2m.34s., iEZ = +2m.40s., iE = +3m.18s., PR₁ = +3m.20s., SR₁ = +3m.46s., and +4m.28s., iZ = +4m.20s., MZ = +4.9m., MN = +5.4m. Lemberg MN = +6.6m. Ravensburg eE = +2m.36s. Hohenheim e = +3m.27s., eN = +4m.23s. Strasbourg PR₁ = +3m.40s., SR₁ = +5m.22s., iSR₁ = +6m.27s., MN = +7.0m. Puy de Dôme i = +7m.35s. Barcelona MN = +9.9m. Hamburg MZ = +9.2m., MN = +10.0m. Paris MN = +7.9m. De Bilt MN = +10.8m. Makeyevka MN = +9.2m. Alicante MN = +10.8m. Kew MN = +10.6m. Almeria MN = +12.7m. Toledo MNW = +15.0m. Granada i = +3m.11s. = SR₁ - 3s., MZ = +12.6m. Upsala eLN = +11.9m., MN = +13.5m. Pulkovo MN = +12.6m., MZ = +12.7m. Leningrad MN = +12.6m. Baku e = +7m.56s., MZ = +17.1m. Ekaterinburg MN = +19.9m. Irkutsk MN = +36.0m., MZ = +37.2m. Chicago MN = +45.2m. Victoria LN = +49.4m.

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Dec. 17d. 11h. 39m. 55s. Epicentre 41°0N. 19°5E.

(as at 6h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	2.6	332	0 32	- 9	1 4	- 8	—	1.6
Sarajevo	3.0	345	e 0 47	0	1 25	+ 2	—	2.1
Sebenico	3.8	317	e 0 47	-12	1 20	-24	—	1.4
Pompeii	3.8	268	e 1 12	+13	e 1 37	- 7	—	3.1
Belgrade	3.9	10	i 0 59	- 2	i 1 41	- 6	i 1.8	2.1
Naples	4.0	279	e 1 45	+43	e 2 35	+45	—	4.1
Athens	4.5	131	1 8	- 2	1 59	- 5	e 2.1	2.7
Rocca di Papa	5.2	281	i 1 20	0	i 2 36	+14	i 2.7	4.1
Zagreb	5.4	333	e 1 28	+ 1	i 2 33	+ 5	—	—
Budapest	6.5	358	2 18	+39	—	—	e 4.1	5.6
Graz	6.7	336	i 1 41	- 1	i 2 39	-23	—	3.8
Florence	6.8	297	e 1 30	-14	3 5	0	—	5.1
Venice	6.8	312	1 45	+ 1	4 5	+60	5.6	—
Vienna	7.6	344	e 0 59	-56	—	—	i 4.2	4.6
Innsbruck	8.5	321	e 2 3	- 6	i 2 36	-74	—	—
Chur	9.2	312	2 5?	-14	—	—	—	—
Lemberg	9.4	18	e 2 17	- 5	e 4 5	- 8	—	6.1
Moncalieri	9.5	299	2 45	+22	4 37	+21	6.1	7.8
Ravensburg	9.8	318	e 2 17	-10	e 4 35	+12	e 5.2	6.0
Zurich	10.1	313	e 1 27	- 4	4 29	- 3	—	—
Cheb	10.4	334	e 2 46	+10	e 4 29	-11	i 5.5	6.0
Hohenheim	10.6	321	e 2 30	- 8	(i 4 49)	+ 4	e 5.6	6.5
Strasbourg	11.2	317	e 2 40	- 7	—	—	—	6.6
Besançon	11.5	307	2 56	+ 4	4 51	-16	6.8	—
Potsdam	12.2	341	1 56	- 6	1 6 8	+44	7.7	—
Puy de Dôme	12.9	298	e 2 35	-37	e 5 24	-18	i 6.5	8.1
Barcelona	13.0	278	—	—	—	—	e 7.0	10.7
Algiers	13.4	257	3 17	- 1	e 6 3	+10	8.4	9.4
Hamburg	14.1	336	e 3 26	- 1	i 6 22	+12	—	10.5
Tortosa	14.3	276	—	—	8 51	?	10.2	11.4
Paris	14.3	309	e 3 44	+14	i 7 11	+56	8.1	10.1
Uccle	14.4	318	e 3 37	+ 5	—	—	e 7.1	—
De Bilt	14.8	324	—	—	e 6 41	+14	e 7.1	10.4
Makeyevka	14.9	55	3 31	- 7	6 23	- 7	8.1	9.4
Alicante	15.6	267	e 3 37	-10	6 40	- 6	10.6	12.1
Kew	17.1	315	e 4 9	+ 3	e 7 23	+ 3	8.1	13.6
Almeria	17.4	264	4 16	+ 6	e 7 44	+17	9.5	11.3
Oxford	17.8	314	—	- 3	e 7 33	- 3	e 9.4	10.3
Toledo	17.9	274	e 4 13	- 6	e 7 27	-11	e 8.1	14.9
Granada	18.3	265	i 4 22	+ 1	e 7 48	+ 1	e 11.5	14.4
Upsala	18.9	358	e 4 21	- 7	e 7 41	-19	e 11.1	12.2
Kucino	19.0	33	(4 33)	+ 4	(i 8 4)	+ 2	9.5	11.6
Malaga	19.1	265	4 29	- 1	8 5	+ 1	8.3	9.8
Stonyhurst	19.5	319	—	—	—	—	e 11.1	15.1
Bidston	19.6	317	—	—	8 5?	-10	—	—
Pulkovo	19.9	16	i 4 32	- 8	8 12	- 9	10.4	12.6
Leningrad	20.1	16	4 30	-12	8 8	-17	9.1	13.3
San Fernando	20.5	266	—	—	i 8 33	- 1	—	14.1
Bergen	21.3	341	—	—	—	—	e 14.8	—
Edinburgh	21.8	325	—	—	—	—	e 11.1	14.9
Baku	22.9	81	e 5 6	-11	i 9 34	+11	e 13.6	18.4
Ekaterinburg	30.7	45	i 6 16	-19	i 11 17	-29	14.1	19.3
Bombay	50.3	100	—	—	e 16 13	-10	—	—
Hyderabad	55.4	97	—	—	—	—	—	39.7
Irkutsk	55.9	47	e 9 43	- 2	i 17 32	- 1	30.1	35.9
Ottawa	65.3	310	—	—	e 19 29	0	e 29.1	—
Toronto	68.4	310	—	—	—	—	32.7	—
Cape Town	74.9	181	—	—	—	—	—	43.1
Victoria	84.8	336	—	—	—	—	48.5	52.9

Additional readings: Sarajevo P = +56s. Sebenico iP = +51s. Belgrade ePE = +1m.0s., iP = +1m.12s., and iS = +1m.13s., iS = +1m.45s., MN = +2.5m., and several other i's. Athens iP = +1m.15s., MN = +2.8m. Rocca di Papa PR₁ = +1m.22s. Zagreb iP = +1m.33s. and +1m.49s., iS = +3m.1s., and several i's. Graz i = +1m.54s. Vienna eZ = +1m.41s., i = +2m.8s., MN = +1.7m., MZ = +4.8m., and several i's. Moncalieri MN = +9.1m. Cheb S and L are given simply as e and i. Hohenheim ePN = +2m.31s., i = +2m.37s., eS = +5m.9s. = S +24s., MN = +6.0m. Strasbourg SR₁ = +5m.47s., iSR₁ = +6m.37s., MN = +7.2m.

Continued on next page.

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Puy de Dôme $i = +7m.19s.$ Barcelona MN = +10.1m. Hamburg
 MN = +8.4m., MZ = +8.6m. Tortosa eLE = +10.0m. De Bilt MN =
 +10.3m. Makeyevka $i = +3m.47s., e = +7m.13s.$ Alicante MN =
 +14.3m. Kew MN = +9.9m. Almeria MN = +12.8m. Upsala
 MN = +12.8m. Kucino P = +4m.18s., eS = +7m.34s. Pulkovo MN =
 +12.3m., MZ = +12.5m. Leningrad MN = +14.2m. San Fernando
 MN = +14.6m. Baku MZ = +16.2m. Ekaterinburg $i = +6m.33s.$
 Irkutsk MN = +35.5m.

Dec. 17d. Readings also at 0h. (near Amboina), 4h. (Bergen, Nagasaki, near La Paz, near Batavia, and Malabar), 5h. (Ekaterinburg, Nagoya, near Baku, near Algiers, and near Mizusawa), 6h. (near Mizusawa, near Sarajevo, and Belgrade), 8h. (Nagasaki, Nagoya, Baku, Ekaterinburg, and near Athens), 9h. (near Kobe and Sumoto), 10h. (Nagasaki, Moncalieri, Rocca di Papa, and near Sarajevo), 11h. (Zagreb and Nagasaki), 13h. (Batavia), 15h. and 19h. (Ekaterinburg).

Dec. 18d. 9h. 38m. 45s. Epicentre $22^{\circ}0'N. 151^{\circ}0'E.$ (as on 1918 Nov. 30d.).

A = -0.811, B = +0.450, C = +0.375; D = +0.485, E = +0.875;
 G = -0.328, H = +0.182, K = -0.927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	29.4	261	6 7	-15	(10 15)	-69	10.2	—
Irkutsk	46.7	322	e 8 39	-6	1 15 29	-8	20.2	—
Ekaterinburg	71.9	325	i 11 34	+5	i 20 51	+2	33.2	—
Kucino	84.0	329	—	—	—	—	45.4	—
Makeyevka	87.9	322	—	—	—	—	45.2	50.3
La Paz	142.8	88	19 46	[+ 1]	—	—	—	—

Additional readings and note: Manila readings are given for 10h. Ekaterinburg eSR₁ = +25m.37s.

Dec. 18d. 14h. 44m. 54s. Epicentre $42^{\circ}3'N. 10^{\circ}5'W.$

A = +0.727, B = -0.135, C = +0.673; D = -0.182, E = -0.983;
 G = +0.662, H = -0.123, K = -0.740.

The Times of Dec. 20 prints a telegram from Lisbon under date Dec. 19: "A severe earthquake shock was felt here at 2.39 p.m. yesterday. The seismograph at the observatory was put out of action and the instrument at Coimbra did not register the shock. . . . It was not felt at Oporto and in the north. The main shock, which was followed at 5.20 p.m. yesterday and at 6 a.m. and 8 a.m. to-day by lesser tremors, was not as severe as in 1909. No lives were lost, and the material damage is slight, etc., etc."

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lisbon	3.7	154	0 34	-24	—	—	—	—
Toledo	5.5	114	i 1 38	+13	i 2 44	+13	i 3.0	—
San Fernando	6.7	149	1 50	+8	3 18	+16	—	—
Malaga	7.3	138	1 42	-9	3 25	+7	—	—
Granada	7.4	132	e 2 1	+9	3 6	-15	—	3.6
Almeria	8.3	128	—	—	i 3 40	-5	3.9	4.1
Tortosa	8.4	96	e 3 46	IS	(e 3 46)	-1	(4.9)	—
Alicante	8.6	114	3 41	IS	(3 41)	-12	—	—

Additional readings: Toledo eP = +1m.53s., PR = +2m.23s., iS = +2m.54s.
 Granada iP = +2m.39s., i = +2m.47s., and +3m.11s. Almeria MZ = +3.9m., MN = +4.0m. Tortosa SN = +4m.47s., S is given as P and L as S.

Dec. 18d. Readings also at 3h. (Kucino), 8h. (near Irkutsk), 9h. (Nagasaki and near Mizusawa (2)), 10h. (Rocca di Papa and Nagasaki), 15h. (Nagasaki), 16h. (Nagasaki, Irkutsk, Rocca di Papa, Ekaterinburg (2), and near Pompeii), 17h. (Ekaterinburg, Rocca di Papa, Irkutsk, Agana, Hong Kong, Leningrad, Pulkovo, and near Manila), 18h. (La Paz and near Manila), 19h. (Agana), 21h. (Naples, Venice, Irkutsk, Ekaterinburg, Manila, near Pompeii, and Rocca di Papa), 23h. (La Paz and Sucre).

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Dec. 19d. 9h. 17m. 45s. Epicentre 52°·0N. 32°·0W.

A = +·522, B = -·326, C = +·788; D = -·530, E = -·848;
G = +·668, H = -·418, K = -·616.

Adopted after comparison with 50°·4N. 31°·6W., as on 1924 July 14d. The old epicentre suits the nearer stations better, but not the distant ones.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	17·3	65	—	—	—	—	e 8·2	10·2
Oxford	18·8	78	—	—	—	—	—	11·2
Kew	19·5	79	—	—	—	—	e 6·2	11·2
Uccle	22·5	78	e 5 13	+ 2	e 9 16	+ 1	e 10·2	—
De Bilt	22·6	75	—	—	e 9 26	+ 9	e 11·2	13·2
Toledo	22·7	111	—	—	e 9 26	+ 7	e 12·7	13·1
Rio Tinto	22·7	119	15 15?	?L	—	—	(15·2)	24·2
San Fernando	23·9	120	—	—	—	—	11·8	14·8
Granada	24·8	115	15 30	- 6	e 9 21	-38	12·2	13·2
Hamburg	25·1	70	—	—	—	—	e 14·2	16·2
Strasbourg	25·3	82	e 5 15?	-26	e 9 15?	-54	e 12·2	14·2
Moncalieri	26·9	89	—	—	—	—	e 14·4	—
Cheb	27·5	76	—	—	e 9 15?	-95	—	16·8
Upsala	28·1	54	—	—	—	—	14·2	—
Ottawa	29·2	275	—	—	—	—	e 14·2	—
Graz	30·6	80	—	—	—	—	e 18·2	—
Toronto	32·3	275	—	—	—	—	—	17·9
Leningrad	34·3	52	—	—	—	—	18·8	23·9
Pulkovo	34·4	52	6 59	- 9	12 29	-17	17·2	20·6
Chicago	E. 38·4	277	—	—	—	—	e 21·3	—
Kucino	39·6	56	e 9 17	?PR ₁	e 13 48	-12	20·2	23·8
Makeyevka	43·4	66	—	—	e 14 44	-10	22·2	27·8
Ekaterinburg	49·9	46	9 7	+ 1	16 19	+ 1	23·2	27·7
Baku	54·8	68	e 9 46	+ 8	e 17 32	+13	e 27·2	31·9
Irkutsk	69·4	27	—	—	—	—	e 39·2	—

Additional readings: De Bilt MZ = +13·8m. San Fernando MN = +15·2m.
Granada i = +10m.12s. = SR₁ +13s. Pulkovo MZ = +20·2m., MN =
+21·5m. Makeyevka e = +18m.13s. = SR₁ +15s., MZ = +26·6m., MN =
+28·2m. Ekaterinburg MZ = +30·8m. Baku MNZ = +33·3m.

Dec. 19d. 11h. 1m. 30s. Epicentre 37°·7N. 73°·6E. (as on 1923 Nov. 28d.).

A = +·223, B = +·759, C = +·612; D = +·959, E = -·282;
G = +·173, H = +·587, K = -·791.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	E. 7·2	155	1 24	-25	—	—	2·7	—
	N. 7·2	155	1 30	-19	—	—	1·7	—
Bombay	18·8	182	e 8 2	?S	(e 8 2)	+ 4	9·4	—
Hyderabad	20·7	167	—	—	8 52	+14	—	—
Ekaterinburg	21·0	340	(4 47)	- 6	(8 38)	- 6	(13·5)	(15·7)
Irkutsk	25·9	46	—	—	—	—	e 18·5	—
Pulkovo	35·1	323	—	—	—	—	e 24·5	—

Ekaterinburg readings have all been diminished by 2 min.

Dec. 19d. Readings also at 0h. (Nagasaki, Baku, and La Paz), 2h. (Nagasaki (3)), 3h. (La Paz), 5h. (Nagasaki), 6h. (Christchurch), 7h. (Nagasaki, La Paz, Sucre, and near Athens), 9h. (La Paz), 13h. (Ekaterinburg and Lisbon), 16h. (La Paz), 17h. (Ekaterinburg and near Mizusawa), 23h. (Ekaterinburg).

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Dec. 20d. 10h. 31m. 6s. Epicentre 39°-0N. 31°-0E. (as on Dec. 16d.).

A = +.666, B = +.400, C = +.629; D = +.515, E = -.857;
G = +.539, H = +.324, K = -.777.

This epicentre has been assumed to be the same as that of Dec. 16d. 17h. on the suggestion of De Bilt: and no better suggestion offers itself. But the observations of Pulkovo and Ekaterinburg indicate a T₀ about 1 min. earlier than those of Athens, Makeyevka, and Leningrad; while those of Kucino and Moncalieri are earlier still.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m. s.	m. s.		
Athens	5.8	261	e 2 37	+67	e 3 34	+55	3.8	4.3			
Makeyevka	10.3	27	e 4 14	+100	e 5 20	+43	6.9	8.5			
Budapest	12.2	318	6 41	?L			e 8.4	10.2			
Baku	14.5	79					e 7.1	11.2			
Cheb	17.2	316					e 8.9	11.9			
Kucino	17.4	13			e 6 53	-34	e 8.3				
Moncalieri	18.2	297	e 3 22	-57			10.9				
Hamburg	20.4	323					13.9				
Pulkovo	20.7	359	4 49	0	8 29	-9	10.9	13.3			
Leningrad	21.0	359	e 6 6	+73	e 10 8	+84	11.8	15.5			
Puy de Dôme	21.7	298			(8 54)	-5	e 8.9	10.9			
De Bilt	22.1	315					e 11.9				
Uccle	22.1	311					10.9				
Upsala	22.6	342					e 12.9				
Ekaterinburg	26.3	38	5 59	+8	10 27	-1	13.9				

Additional readings and notes: Athens MN = +.4.5m. Makeyevka MZ = +8.4m., MN = +10.6m., P and S are given as e simply. Budapest MN = +11.7m. Baku L = +9.9m., MZ = +12.1m., MN = +12.3m. Pulkovo MNZ = +13.1m. Leningrad MN = +15.8m., MZ = +18.2m., P and S are given as e simply.

Dec. 20d. Readings also at 1h. (Nagasaki), 2h. (La Plata, La Paz, Nagasaki (2), and Wellington), 3h. (Zagreb), 9h. (Graz), 11h. (Apia), 15h. and 16h. (Nagasaki), 17h. (Rocca di Papa), 18h. (Tacubaya), 19h. (La Paz), 20h. (Nagasaki and near Granada), 21h. (Nagasaki).

Dec. 21d. 20h. 3m. 12s. Epicentre 6°-5N. 127°-0E. (as on 1924 April 26d.).

A = -.598, B = +.793, C = +.113; D = +.799, E = +.602;
G = -.068, H = +.090, K = -.994.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m. s.	m. s.		
Manila	10.0	325	e 2 37	+7	(i 4 23)	-6	i 4.4				
Hong Kong	20.1	323	4 28	-14				11.3			
Batavia	23.8	238	e 5 28	+2	i 9 40	0	i 10.9				
Irkutsk	49.4	342	e 9 2	-1	e 16 11	0	23.8				
Ekaterinburg	71.8	329	i 11 36	+8	20 50	+2	31.8	44.2			
Baku	76.0	311			e 21 32	-5	e 37.8				
Kucino	84.2	325					e 43.8				
Makeyevka	84.5	319					53.8				
Leningrad	87.7	330					51.0				
Pulkovo	87.8	330					e 47.2				
De Bilt	103.5	328					e 52.8				
Uccle	104.5	327					e 51.8				
Edinburgh	105.4	333					e 41.8				

Additional readings and notes: Irkutsk SR₁ = +19m.47s. Kucino L = +49.8m. Edinburgh reading has been increased by 1h.

Dec. 21d. Readings also at 3h. (Moncalieri and near Pompeii), 5h. (Ekaterinburg), 6h. (Baku and near La Paz), 7h. (near Manila), 13h. and 14h. (Nagasaki), 17h. (Nagasaki and near Sumoto), 18h. (Nagasaki), 19h. (De Bilt, Uccle, La Paz, and Nagasaki), 20h. (Ekaterinburg), 21h., 22h., and 23h. (Nagasaki).

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Dec. 22d. 4h. 22m. 2s. Epicentre 41°·0N. 127°·0W. (as on 1926 Dec. 10d.).

A = -·453, B = -·603, C = +·656 ; D = -·799, E = +·602 ;
G = -·395, H = -·524, K = -·755.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	7·8	17	2 0	+ 2	(3 30)	- 1	3·5	4·3
Spokane		9·4	42	(1 2 37)	+15	(1 3 58)	-15	(e 5·1)	(7·4)
Tucson		15·5	119	3 44	- 2	—	—	10·2	—
Chicago	E.	29·2	75	—	—	—	—	18·3	18·6
Honolulu Univ.	E.	32·7	243	—	—	—	—	e 15·4	16·6
Honolulu	N.	32·8	243	—	—	—	—	e 14·7	15·6
Toronto	E.	34·7	70	—	—	—	—	19·0	—
Ottawa		36·9	66	—	—	—	—	e 18·4	—
Irkutsk		76·7	331	—	—	—	—	e 43·0	—
Ekaterinburg		81·9	358	—	—	—	—	36·0	—
Baku		98·6	3	—	—	—	—	e 58·0	—

Additional readings : Spokane iEN = (+3m.13s.), iSN = (+4m.59s.) ; all readings have been increased by 1m. Tucson iE = +3m.54s., eE = +4m.36s., eN = +7m.17s. Chicago iLN = +16·6m.

Dec. 22d. Readings also at 1h. and 2h. (Nagasaki), 3h. (La Paz), 4h. (3), 5h. (2), and 6h. (Nagasaki), 7h. (Tacubaya), 8h., 10h., and 14h. (Nagasaki), 15h. (near Taihoku), 16h. (near Manila), 17h. (La Plata), 19h. (near Sumoto), 20h. (near Matuyama), 23h. (near Mizusawa).

Dec. 23d. Readings at 1h. (Nagasaki), 2h. (near Tacubaya), 3h. (near La Paz, Taihoku, and Belgrade), 4h. (Strasbourg and near Manila), 5h. (Baku, Ekaterinburg, La Paz, La Plata, Sucre, Nagasaki, near Kobe, and Sumoto), 6h. (Amboina, Ekaterinburg, La Paz, and La Plata), 8h. (Taihoku and Ekaterinburg), 9h. (Baku), 11h. (Batavia), 12h. (Nagasaki and near Mizusawa), 13h. and 14h. (Nagasaki), 16h. (Nagasaki and near Sarajevo), 21h. (Baku), 23h. (near La Paz and Sucre).

Dec. 24d. 6h. 26m. 36s. Epicentre 42°·0N. 44°·0E.

A = +·535, B = +·516, C = +·669 ; D = +·695, E = -·719 ;
G = +·481, H = +·465, K = -·743 ;

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk		2·1	342	0 44	+11	—	—	—	1·8
Baku		4·8	108	1 18	+ 4	e 2 7	- 4	3·4	4·0
Makeyevka		7·4	327	—	—	—	—	5·3	—
Kucino		14·3	346	—	—	—	—	e 7·5	8·3
Ekaterinburg		18·3	30	1 4 15	- 6	1 7 49	+ 2	10·4	12·4
Pulkovo		19·7	339	4 38	+ 1	—	—	10·4	11·2
Leningrad		19·9	339	—	—	—	—	16·2	—
Hamburg		25·3	309	—	—	—	—	e 14·4	—
De Bilt		27·9	305	—	—	—	—	e 16·4	—

Additional readings : Piatigorsk i = +48s., P = +54s., i = +1m.27s. and +1m.33s. Baku i = +2m.38s., MN = +6·2m., MZ = +6·9m. Makeyevka e = +3m.59s., i = +4m.21s. Ekaterinburg e = +7m.42s.

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Dec. 24d. 7h. 1m. 0s. Epicentre 19°0S. 65°0E.

A = +.400, B = +.857, C = -.326 ; D = +.906, E = -.423 ;
G = -.138, H = -.295, K = -.946.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	29.8	31	11 40	?S	(11 40)	+ 9	—	17.6
Kodaikanal	31.8	22	e 14 12	?L	—	—	(14.2)	—
Bombay	38.7	12	8 2	+18	13 27	-21	18.4	21.6
Hyderabad	38.8	20	—	—	13 34	-15	17.2	21.7
Batavia	42.7	78	e 8 39	+23	i 14 39	- 5	—	—
Simla	51.5	13	—	—	—	—	e 26.0	—
Baku	61.1	348	10 23	+ 3	e 18 46	+ 9	30.0	32.6
Hong Kong	63.4	51	35 35	?L	—	—	(35.6)	38.0
Ekaterinburg	75.9	357	11 55	+ 1	e 21 40	+ 4	42.0	44.9
Kucino	78.3	345	—	—	—	—	49.6	—
Irkutsk	79.1	23	12 11	- 3	—	—	42.0	45.4
Strasbourg	84.7	326	e 12 35	-11	—	—	—	—
Granada	85.5	312	—	—	—	—	e 51.0	55.3
Hamburg z.	86.6	331	e 12 53	- 4	—	—	—	—
Paris	87.6	325	e 13 3	0	—	—	—	—
De Bilt	88.0	329	i 13 9	+ 4	—	—	e 50.0	—
Sucre	118.1	235	—	—	—	—	60.7	65.7
La Paz	121.8	235	e 22 4	?	—	—	62.1	68.6

Additional readings: Batavia P and S are given as e and iE respectively.
Simla eN = +26m.12s. Baku MN = +32.7m., MZ = +39.1m. Ekaterinburg ePS = +22m.15s., eSR₁ = +26m.31s., MZ = +47.1m., MN = +47.8m.
Irkutsk PR₁ = +15m.9s. Strasbourg e = +16m.38s. = PR₁ + 11s., and +24m.35s. = PS - 27s.

Dec. 24d. Readings also at 3h. (Azores), 12h. (Baku), 14h. (La Paz), 15h. (Zagreb, De Bilt, Ekaterinburg, Merida, Tacubaya, Oaxaca, Vera Cruz, near Sucre, and La Paz), 16h. (La Plata, Sucre, and La Paz), 17h. (Ekaterinburg), 21h. (Irkutsk and Strasbourg), 22h. (La Paz), 23h. (La Plata and Sucre).

Dec. 25d. 5h. 13m. 12s. Epicentre 75°5N. 5°0E.

A = +.249, B = +.022, C = +.968 ; D = +.087, E = -.996 ;
G = +.964, H = +.084, K = -.250.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Leningrad	17.9	136	4 16	0	—	—	9.2	—
Pulkovo	18.1	136	4 12	- 6	e 7 39	- 3	9.3	—
Kucino	23.3	129	5 17	- 3	e 9 25	- 6	e 12.0	—
De Bilt	23.4	180	—	—	e 9 36	+ 3	e 11.8	—
Strasbourg	27.0	176	e 6 48?	+50	e 10 48	+ 7	16.8	—
Ekaterinburg	27.4	101	5 59	- 3	i 10 45	- 3	12.8	16.4
Makeyevka	30.7	134	—	—	—	—	15.8	—
Baku	40.3	124	—	—	—	—	18.8	—
Irkutsk	42.2	64	e 8 18	+ 6	e 14 37	- 1	24.8	—
Manila	82.1	61	e 28 7	?SR ₁	—	—	—	—

Additional readings: Strasbourg e = +12m.42s. Ekaterinburg i = +6m.7s.
and +6m.20s., PR₁ = +6m.54s., e = +10m.36s.

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Dec. 25d. 6h. 43m. 18s. Epicentre 5°·5S. 145°·0E. (as on 1926 Sept. 7d.).

A = -·815, B = +·571, C = -·096 ; D = +·574, E = +·819 ;
G = +·078, H = -·055, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	16·8	275		-50				9·9
Riverview	28·9	169	e 7 36	+79	e 12 24	+69	e 14·6	18·7
Sydney	E. 28·9	169	(6 12)	-5	(11 12)	-3	(13·2)	(14·4)
Adelaide	30·0	190	e 6 30	+2	i 11 44	+10	14·4	18·9
Manila	31·2	312	i 6 47	+7	i 11 30	-24	i 13·7	15·4
Melbourne	32·3	181			e 11 48	-25	i 15·2	20·3
Batavia	37·9	270	8 44	+67				
Perth	37·9	224	i 7 42	+5	i 13 29	-8	20·0	22·0
Taihoku	E. 38·1	326			e 12 42?	-57		
Hong Kong	41·0	316						19·7
Zi-ka-wei	43·1	332	e 7 37	-42	e 13 47	-62		
Apia	43·4	104	e 7 4	-77			11·1	12·3
Wellington	44·6	145	e 9 0	+30	15 11	+1	27·2	31·2
Christchurch	45·1	152			19 42	?SR ₂	29·2	30·3
Honolulu	N. 61·9	62					e 26·7	30·5
Honolulu Un.	E. 62·1	62			18 57	+8	e 28·4	34·3
Irkutsk	67·3	335	10 40	-20	19 16	-38	30·7	38·1
Kodaikanal	69·1	283	e 18 48	?S	(e 18 48)	-87		
Hyderabad	69·6	292	11 9	-6	19 54	-27	33·4	45·1
Bombay	75·0	292	11 44	-5	20 59	-27	e 37·0	
Ekaterinburg	E. 91·5	328	e 12 52	-32	i 23 36	[-1]	40·7	54·8
Victoria	E. 95·2	42	25 42	?S	(25 42)	+34	43·0	49·5
Baku	97·4	311			e 25 48	+18	46·7	52·2
Kucino	104·1	327			e 24 47	[+4]	50·2	
Tucson	104·9	57					e 46·4	46·7
Makeyevka	105·4	320					50·7	60·6
Pulkovo	107·0	333	e 12 47	-117	e 24 12	[-45]	50·7	64·5
Leningrad	107·0	333					51·3	64·2
Upsala	112·7	335					e 57·7	
Budapest	117·7	322					e 61·2	
Hamburg	119·7	331					e 58·7	61·7
Graz	120·1	323					e 71·7	
Cheb	120·4	327			e 25 42?	[-4]		59·7
Chicago	E. 121·0	43					e 55·7	63·0
Dyce	122·2	340					60·2	69·4
De Bilt	122·9	331	i 20 43	?PR ₁			e 55·7	61·6
Edinburgh	123·6	338					e 58·7	72·7
Strasbourg	123·8	327	e 20 22	?PR ₁	e 31 32	?PS	e 46·7	69·7
Uccle	124·1	331					e 54·7	74·3
Toronto	E. 125·5	38					61·2	67·1
Kew	125·8	335	e 22 42?				65·7	
Oxford	126·0	335					e 55·7	77·0
Paris	126·3	330	e 20 44	?PR ₁	e 33 22	?	64·7	
Ottawa	E. 126·7	34			e 37 42?	?SR ₁	e 52·7	
Ithaca	127·9	38					64·7	
San Fernando N.	139·4	323						85·7
La Paz	140·5	124	19 42	[+2]	33 19	?	78·3	99·3
Sucre	141·4	130	19 35	[-7]			78·7	93·1

Additional readings: Riverview MN = +20·5m., MZ = +21·2m.; T₀ = 6h.44m.35s. Sydney; the readings have all been diminished by 5 min. Adelaide MN = +17·6m. Manila e = +6m.16s., iPS = +10m.0s., MN = +15·0m. Melbourne i = +18m.18s. Batavia i = +9m.36s. = PR₁ +39s. Perth SR₁ = +15m.2s., L = +20·7m. Wellington e = +20m.40s. Hyderabad SR₁ = +24m.18s.; T₀ = 6h.43m.37s. Ekaterinburg iP = +12m.57s., ePR₁ = +16m.31s., eS₁P₁S = +23m.11s. = [S] -26s., iPS = +24m.40s. = S +11s., e = +26m.13s., +27m.15s., and +30m.44s. = SR₁ -5s., i = +28m.31s., iSR₁ = +33m.10s., MN = +46·4m. Baku MN = +55·8m. Kucino e = +32m.39s. Tucson MN = +46·8m. Makeyevka MZ = +60·7m. Pulkovo e = +28m.10s. = PS -14s., MN = +60·6m., MZ = +64·7m. Leningrad MN = +53·0m., MZ = +65·3m. Budapest e = +60m.12s. Hamburg MZ = +70·7m. Chicago SR₁E = +37m.9s., e = +44m.58s. De Bilt MZ = +71·8m., MN = +73·0m. Toronto LN = +56·0m. Ottawa eLN = +55·7m. La Paz iP = +19m.55s.

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Dec. 25d. 15h. 43m. 45s. Epicentre 1°-0N. 116°-0E.

A = -.438, B = +.899, C = +.017; D = +.899, E = +.438;
G = -.003, H = +.016, K = -.1000.

Riverview readings are anomalous; the T, as indicated by S-P agrees with that adopted, but P and S separately correspond to $\Delta = 31.5^\circ$.

A simultaneous shock at a focus much nearer Riverview seems a possibility, which might perhaps explain the readings at La Paz, etc.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m. s.	s.	m. s.				
Batavia	11.6	231	i 2	56	+ 3	i 5	15	+ 6	—	—	—	—
Malabar	11.7	225	i 2	53	- 2	i 5	8	- 4	—	—	—	—
Manila	14.5	20	e 6	26	?S	(e 6 26)	+ 6	i 10.0	—	—	—	—
Hong Kong	21.4	356	e 5	30	+32	—	—	—	—	—	—	9.8
Zi-ka-wei	z. 30.7	10	e 6	35	0	—	—	—	—	—	—	—
Perth	32.9	180	4	50	-126	11	25	-57	—	—	—	—
Hyderabad	40.4	298	8	54	+56	12	59	-74	16.6	20.2	—	—
Bombay	45.9	297	e 8	16	-23	—	—	—	—	—	—	19.1
Simla	47.5	315	e 8	57	+ 6	e 15	45	- 3	—	—	—	—
Riverview	47.7	140	i 6	44	-128	i 11	58	-232	i 15.2	19.7	—	—
Irkutsk	52.2	351	i 9	24	+ 3	i 16	51	+ 5	28.2	—	—	—
Ekaterinburg	71.0	332	i 11	16	- 7	i 29	26	-12	—	—	—	—
Baku	71.4	314	i 11	18	- 8	i 20	33	-10	33.8	—	—	—
Makeyevka	81.3	320	—	—	—	e 22	15?	-23	—	—	—	—
Kucino	82.5	326	—	—	—	i 22	32	-20	35.0	—	—	—
Pulkovo	87.0	330	12	31	-28	—	—	—	—	—	—	—
Leningrad	87.0	330	e 12	36	-23	(23 15?)	[+ 6]	—	23.2	—	—	—
Strasbourg	101.5	320	e 11	15?	?	—	—	—	20.2	—	—	—
De Bilt	101.8	325	—	—	—	e 30	57	?	e 59.2	—	—	—
La Plata	145.6	189	21	1	?	27	14	?	—	—	—	—
La Paz	164.0	165	18	57	[-74]	i 28	47	?PR ₂	42.4	—	—	—

Additional readings: Batavia iP = +3m.2s., iZ = +4m.15s., iS = +5m.20s., i = +6m.34s. Malabar i = +4m.58s. Hong Kong ? = +7m.3s. Perth i = +8m.20s. Riverview PS = +12m.4s., iL = +15.7m., MN = +17.8m.; T₀ = 15h.43m.37s. Irkutsk PR₁ = +11m.27s., PR₂ = +12m.37s., SR₁ = +13m.34s., Ekaterinburg e = +13m.15s., iPR₁ = +14m.36s., PR₂ = +16m.25s., iPS = +21m.18s., iS, P, S = +21m.50s., iSR₁ = +26m.10s., and several i readings. Makeyevka e = +27m.32s. Kucino e = +23m.32s., ePPS = PS - 5s., +25m.8s., and +27m.51s. Pulkovo e = +21m.51s., ePPS = +24m.21s. Leningrad e = +12m.1s.

Dec. 25d. 16h. 14m. 40s. Epicentre 41°-0N. 19°-5E. (as on 17d.).

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m. s.	s.	m. s.				
Sarajevo	3.0	345	(i 0 55)	—	+ 8	(1 28)	+ 5	—	—	—	—	(1.8)
Pompeii	3.8	268	e 1	20	+21	e 2	20	+36	—	—	—	—
Belgrade	3.9	10	e 0	41	-20	i 1	30	-17	—	—	—	1.8
Athens	4.5	131	—	—	—	(2 6)	+ 2	—	e 2.1	2.4	—	—
Rocca di Papa	5.2	281	i 1	34	+14	i 2	32	+10	—	—	—	3.1
Zagreb	5.4	333	(e 1 32)	—	+ 9	(e 2 29)	+ 1	—	(i 3.1)	—	—	—
Budapest	6.5	358	e 2	16	+37	3	31	+34	4.2	—	—	—
Zurich	10.1	313	e 0	58	-93	e 4	8	-24	—	—	—	—
Strasbourg	11.2	317	4	26	?S	(4 26)	-33	—	(5.6)	—	—	—
Uccle	14.4	318	—	—	—	e 6	20?	+ 2	—	—	—	—
De Bilt	14.8	324	—	—	—	e 6	20?	- 7	—	—	—	—

Additional readings and notes: Sarajevo readings have been increased by 1m. Belgrade eE = +47s., eS = +1m.32s., iN = +1m.38s., MN = +2.0m. Athens MN = +2.6m. Rocca di Papa e = +1m.7s. Zagreb eP = (+1m.45s.), iS = (+2m.52s.), and several other readings; all have been increased by 2m. Budapest eE = +3m.20s. Zurich readings are given as e simply. Strasbourg S? = +6m.1s., SR₁? = +6m.13s.; S is given as P and L as S.

Dec. 25d. Readings also at 0h. (Ekaterinburg), 7h. (near Athens), 9h. (Agana), 10h. (La Paz), 11h. (near Hukuoka), 14h. (near Tacubaya), 15h. (near Athens), 16h. and 18h. (Nagasaki), 19h. (Amboina and La Paz), 21h. (Matuyama).

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Dec. 26d. 22h. 2m. 52s. Epicentre 41°·0N. 19°·5E. (as on 25d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pompei	3·8	268	e 2 28	?S	(e 2 28)	+44	—	—
Belgrade	3·9	10	e 0 54	- 7	1 57	+10	—	2·7
Athens	4·5	131	e 1 8	- 2	e 2 5	+ 1	2·3	2·6
Zagreb	5·4	333	—	—	—	—	e 3·0	—
Moncalieri	5·5	299	—	—	e 3 40	-36	6·6	—
Strasbourg	11·2	317	e 4 8?	+81	—	—	—	—
De Bilt	14·8	324	—	—	—	—	e 9·1	—
Ekaterinburg	30·7	45	(7 8?)	+33	—	—	7·1	—

Additional readings and notes : Belgrade e = +1m.2s. and +1m.45s. Athens readings are given as for 20h. Zagreb i = +3m.18s., e = +6m.8s.?

Dec. 26d. Readings also at 1h. (Nagasaki and La Paz), 2h. (La Paz), 4h. (Nagasaki), 7h. (Nagasaki, near Batavia, and Malabar), 8h. (La Plata, near La Paz, and near Sucre), 11h. (near Athens), 12h., 14h., 16h., 17h., and 18h. (2) (Nagasaki), 19h. (Nagasaki), 21h. (Batavia and Malabar).

Dec. 27d. 8h. 42m. 43s. (I) } Epicentre 53°·0S. 108°·5W.
9h. 20m. 15s. (II) }

A = -·168, B = -·503, C = -·848; D = -·948, E = +·317;
G = +·269, H = +·304, K = -·530.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I La Plata	40·4	78	—	—	—	—	19·3	—
II 40·4	78	—	—	—	—	—	18·6	—
I Wellington	49·4	256	—	—	1 16 15	+ 4	e 22·0	25·6
II 49·4	256	—	—	—	1 16 18	+ 7	e 22·3	25·0
I Sucre	50·1	57	9 2	- 6	1 16 20	- 8	22·3	25·8
II 50·1	57	—	9 2	- 6	1 16 12	- 8	21·5	28·0
I La Paz	51·1	52	9 15	+ 1	1 16 31	- 1	23·7	27·6
II 51·1	52	—	9 18	+ 4	1 16 34	+ 2	24·1	27·6
I Apia	64·3	286	—	—	—	—	e 27·3	—
I Melbourne	66·4	235	—	—	—	—	—	20·8
I Riverview	66·9	242	—	—	e 20 44	+55	e 32·2	35·7
II 66·9	242	—	—	—	e 20 50	+61	e 31·2	35·3
I Sydney	66·9	242	28 47	?SR ₁	—	—	34·5	36·0
II 66·9	242	—	—	—	—	—	32·8	36·6
II Cape Town	78·0	137	—	—	—	—	—	43·8
I Honolulu	N. 89·3	315	—	—	—	—	e 38·6	40·1
II N. 89·3	315	—	—	—	—	—	e 37·8	40·8
I Tucson	N. 90·3	358	—	—	—	—	e 41·3	41·9
II N. 90·3	358	—	—	—	—	—	42·0	—
II Toronto	N. 104·5	21	—	—	—	—	52·3	53·8
II Ottawa	106·9	24	—	—	—	—	e 49·8	—
II Victoria	107·0	350	—	—	—	—	51·2	—
II Paris	139·7	71	—	—	—	—	e 69·8	75·8
II Oxford	139·7	66	—	—	—	—	—	70·8
II Kew	140·0	66	—	—	—	—	e 66·8	—
I Bombay	140·9	182	—	—	—	—	e 71·8	—
I Uccle	141·9	70	—	—	—	—	e 67·3	—
II Strasbourg	142·2	76	—	—	—	—	e 69·8	—
I De Bilt	143·1	70	—	—	—	—	e 69·3	—
II 143·1	70	—	—	—	—	—	e 68·8	75·2
II Baku	157·6	133	—	—	—	—	e 80·3	105·7
II 157·6	133	—	—	—	—	—	80·8	105·6
II Makeyevka	157·8	103	—	—	—	—	62·8	100·4
II Leningrad	159·0	67	—	—	—	—	91·0	—
I Irkutsk	160·6	267	—	—	—	—	77·3	—
II 160·6	267	e 21 15	[+66]	—	e 24 49	?PR ₁	—	86·8
I Kucino	161·7	82	—	—	—	—	e 84·6	—
I Ekaterinburg	174·0	97	e 35 2	?	e 47 2	?SR ₁	75·3	95·1
II 174·0	97	—	—	—	—	—	74·8	97·4

Additional readings : La Paz I T₀ = 8h.42m.47s., II PR₁ = +11m.35s., SR₁ = +19m.9s., SR₂ = +21m.53s.; Riverview I MN = +38·8m., II MN = +33·0m. Tucson I LE = +41·5m. De Bilt II MZ = +74·8m., MN = +75·0m. Baku I MZ = +105·3m., MN = +106·6m. II MZ = +106·1m., MN = +106·6m. Makeyevka II MZ = +98·8m. Ekaterinburg II MN = +90·4m.

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Dec. 27d. Readings also at 0h. (Strasbourg, Zurich, near Toyooka (2), Matuyama, Sumoto, and Kobe), 7h. (Strasbourg), 8h. (Nagasaki), 9h. (Berkeley, Lick, and Santa Clara; these do not accord with any definite determination), 10h. (Nagasaki), 14h. (Matuyama and near Sumoto), 16h. (Makeyevka and near Belgrade), 17h. (Strasbourg and Rocca di Papa), 18h. (Spokane, near Sumoto, Matuyama, Toyooka, and Kobe), 19h. (Apia).

Dec. 28d. 4h. 51m. 20s. Epicentre 12°·5S. 58°·5W.

A = +·510, B = -·833, C = -·216; D = -·853, E = -·522;
G = -·113, H = +·185, K = -·976.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	9·2	224	12 8	-11	—	—	3·0	3·1
La Paz	10·1	246	12 33	+ 2	14 35?	+ 3	4·6	5·6
La Plata	22·4	179	5 11	+ 1	(9 16)	+ 3	9·3	—
Ekaterinburg	116·2	32	—	—	—	—	67·7	—

Additional readings: La Paz i = +3m.7s. and +3m.25s. La Plata S = +7m.51s.

Dec. 28d. Readings also at 1h. (near Manila), 2h. (near Irkutsk), 3h. (Bombay, Calcutta, and Phu-Lien), 4h. (near Tacubaya), 5h. (Nagasaki and Tucson), 8h. (Baku, Ekaterinburg, and Irkutsk), 10h. (near Sumoto), 13h. (Amboina, near Berkeley, and Lick), 15h. (Irkutsk and near Mizusawa), 16h. (Baku and Ekaterinburg), 17h. (near Sarajevo), 21h. (near Irkutsk and near Matuyama), 22h. (Apia), 23h. (near Matuyama).

Dec. 29d. 12h. 50m. 0s. Epicentre 34°·0S. 57°·0E. (as on 1926 Dec. 7d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	31·7	262	—	—	—	—	—	24·0
Kodaikanal	48·3	26	e 21 0	?SR ₂	—	—	—	—
Bombay	55·0	19	9 37	- 2	17 17	- 4	28·2	—
Hyderabad	55·4	25	17 16	?S	(17 16)	-10	23·7	27·0
Melbourne	68·6	122	—	—	—	—	—	36·3
Baku	74·7	355	e 11 49	+ 2	121 27	+ 5	35·0	44·0
Sydney	74·9	121	34 30	?	—	—	37·7	39·7
Hong Kong	78·3	53	—	—	—	—	—	46·0
Makeyevka	83·8	349	—	—	e 22 54	-13	43·0	—
Wellington	85·5	139	—	—	—	—	e 42·0	—
Almeria	89·8	318	13 16	+ 1	—	—	—	61·8
Granada	90·8	317	i 13 11	- 9	e 23 51	-31	53·0	56·5
Ekaterinburg	90·9	3	i 13 11	-10	124 5	-18	37·0	—
Kucino	91·2	350	—	—	e 24 11	-15	32·9	—
San Fernando	91·8	315	—	—	—	—	—	58·5
Toledo	92·8	319	—	—	—	—	e 41·9	61·6
Strasbourg	93·5	330	(e 13 0?)	-35	(23 0)	[-49]	(59·0)	—
Irkutsk	95·6	27	e 14 43	+56	e 24 43	-29	44·0	—
Paris	95·9	329	—	—	—	—	e 53·0	—
Ucle	96·6	330	—	—	—	—	e 38·0	—
De Bilt	97·3	332	—	—	—	—	e 51·0	—
Kew	99·1	328	—	—	—	—	e 56·0	—
Chicago	E. 151·2	296	—	—	—	—	e 78·9	86·5

Additional readings: Baku MN = +42·1m., MZ = +48·5m. Makeyevka e = 12h.33m.
Ekaterinburg eS, P, S = +23m.39s., ePPS = +25m.31s., e = +26m.19s.
Kucino e = +25m.20s. = PS - 2s. Toledo MNW = +61·8m.
Strasbourg e = (+17m.0s.?) the readings have all been increased by 4 min.
Irkutsk e = +24m.1s. = [S] + 1s., and +26m.4s. = PS - 11s.

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Dec. 29d. 21h. 25m. 30s. Epicentre 38°·5N. 34°·5E.

A = +·645, B = +·443, C = +·622; D = +·566, E = -·824;
G = +·513, H = +·353, K = -·783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	8·5	47	—	—	e 3 30?	-20	—	—
Makayevka	9·9	14	—	—	e 3 54	-32	—	—
Baku	12·0	76	—	—	e 5 23	+ 4	7·5	7·9
Kucino	17·4	7	—	—	—	—	e 8·9	—
Pulkovo	21·4	354	e 5 4	+ 5	e 8 56	+ 3	10·5	—
Strasbourg	21·7	306	e 5 30?	+29	—	—	—	—
Ekaterinburg	25·2	35	e 5 38	- 2	i 10 3	- 4	e 14·5	—

Additional readings: Baku e = +6m.47s., MZ = +9·3m., MN = +10·3m.
Ekaterinburg i = +5m.39s., e = +9m.51s.

Dec. 29d. Readings also at 0h. (near Matuyama), 2h. (Nagasaki (2) and Tucson), 3h. (Nagasaki), 4h. (Nagasaki and La Paz), 5h. (Nagasaki and Sydney), 6h. (Nagasaki, Irkutsk, and Wellington), 7h. (Nagasaki), 8h. (Ottawa, Toronto, Chicago, and Tucson), 9h. (Matuyama), 11h. (Tacubaya and Oaxaca), 12h., 15h., and 17h. (Nagasaki), 18h. (Azores), 21h. (Nagasaki), 23h. (near La Paz).

Dec. 30d. Readings at 0h. (La Plata), 1h. (Baku), 2h. (Nagasaki (2)), 3h. (Nagasaki, near Matuyama, and near Mostar), 4h. (Tacubaya), 7h. (Hong Kong and Matuyama), 8h. (Strasbourg, near Bagnères, and Tortosa), 12h. and 13h. (Bombay), 14h. (Leningrad), 17h. (near Spokane), 22h. (Matuyama).

Dec. 31d. 16h. 53m. 45s. Epicentre 25°·0N. 77°·5E.

A = +·196, B = +·885, C = +·423; D = +·976, E = -·216;
G = +·091, H = +·413, K = -·906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N. 6·1	357	e 1 33	0	—	—	—	—
Bombay	7·5	216	1 55	+ 1	3 20	- 4	3·9	6·0
Hyderabad	7·6	173	(1 54)	- 1	(3 28)	+ 2	—	(5·2)
Baku	27·7	310	(e 6 34)	+29	(e 10 45)	- 9	(e 16·2)	(17·7)
Irkutsk	34·0	30	—	—	e 10 15?	?	19·2	—
Ekaterinburg	34·1	343	e 9 12	?PR ₁	e 13 20	+38	—	—
Kucino	42·1	328	—	—	—	—	e 19·0	—
Pulkovo	47·5	330	—	—	—	—	e 20·2	—

Additional readings and notes: Simla eE = +2m.3s. Hyderabad readings have been increased by 8m. Baku MZ = (+20·8m.), MN = (+21·4m.); the readings have all been increased by 5m. Ekaterinburg readings are given as e's simply; are they both 1min. too large?

Dec. 31d. Readings also at 1h. (Riverview), 4h. (Nagasaki), 5h. (near Athens (3)), 7h. (La Paz and near Athens), 8h. (Nagasaki), 9h. (near Athens), 14h. (Tucson), 15h. (Ekaterinburg, Nagasaki, and near Nagoya), 20h. (near Berkeley and Lick).

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Belated Readings from Kew, 1926 Jan.—June.

Jan. 1d. 18h. 4m. 6s. Epicentre 45°·0N. 14°·8E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
11·9	308	—	—	e 5 2?	-15	5·9	7·2?

Jan. 5d. 7h. 27m. 40s. Epicentre 14°·0S. 166°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
141·1	347	—	—	—	—	77·3	—

Jan. 13d. 1h. 46m. 44s. (I) } Epicentre 38°·0N. 29°·5E.
8h. 8m. 24s. (II)

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
I 24·8	312	—	—	i 10 57?	?SR ₁	14·3	15·8?
II 24·8	312	—	—	(e 9 36?)	-23	e 9·6	15·2?

Jan. 18d. 11h. 20m. 30s. Epicentre 43°·0N. 75°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
49·5	307	—	—	—	—	i 32·5	—

Jan. 18d. 16h. 55m. 45s. Epicentre 6°·0N. 125°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
106·1	328	—	—	—	—	e 55·2	—

Jan. 18d. 21h. 7m. 18s. Epicentre 1°·5S. 88°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
90·4	321	—	—	i 23 55	[+25]	38·7	59·8

MN = +59·4m. ; epicentre given as 0°N. 87°E.

Jan. 25d. 0h. 36m. 12s. Epicentre 9°·0S. 159°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
134·4	342	19 32	[+ 4]	—	—	58·8	70·8

i = +22m.8s. = PR₁ + 9s.

Jan. 26d. 7h. 4m. 24s. Epicentre 20°·6S. 168°·8E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
148·0	348	(23 36?)	PR ₁	—	—	—	—

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Feb. 4d. 6h. 44m. 10s. Epicentre 42°·5N. 139°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
79·6	336	—	—	—	—	e 35·8	—

Feb. 6d. 8h. 49m. 50s. Epicentre 45°·1N. 147°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
79·4	340	—	—	—	—	e 40·2	—

Feb. 7d. 7h. 49m. 22s. Epicentre 18°·0S. 173°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
146·2	353	i 19 54	(+ 4]	—	—	—	—
i = +20m.30s.							

Feb. 7d. 22h. 41m. 58s. Epicentre 50°·1N. 178°·7E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
78·4	359	—	—	—	—	e 45·0	—

Feb. 8d. 15h. 17m. 40s. Epicentre 12°·0N. 89°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
79·8	39	e 12 24	+ 6	22 30	+ 9	34·3	39·1
PR ₁ = +15m.24s. = -24s., MN = +38·5m.							

Feb. 9d. 0h. 24m. 24s. Epicentre 27°·0S. 59°·5W.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
-10·9	94·1	32	—	—	1 22 51	- 8	34·6	—
iZ = +21m.59s.								

Feb. 10d. 14h. 48m. 20s. Epicentre 13°·0N. 85°·4W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
76·8	40	—	—	—	—	e 43·7	—

Feb. 12d. 7h. 40m. 12s. Epicentre 17°·0S. 177°·5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
145·5	3	—	—	—	—	83·8	—

Feb. 13d. 9h. 8m. 20s. Epicentre 23°·5S. 173°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
152·0	358	—	—	—	—	85·7	95·7

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Feb. 15d. 2h. 59m. 42s. Epicentre 11°·7N. 89°·6W.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
-2·1	80·4	39	12 14	+ 6	21 59	- 2	37·3	44·5

PR₁ = +15m.12s., MN = +43·3m. ; epicentre given as 14°·5N. 86°·5W.

Feb. 15d. 23h. 11m. 40s. Epicentre 25°·0N. 123°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
88·8	329	—	—	—	—	e 48·3	—

Feb. 26d. 15h. 46m. 20s. (I) } Epicentre 37°·5N. 23°·0E.
16h. 8m. 10s. (II) }

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
I 21·5	318	—	—	—	—	e 11·7	12·7
II 21·5	318	—	—	e 8 50?	- 5	11·8	12·9

Feb. 28d. 22h. 12m. 24s. Epicentre 39°·0N. 7°·5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
13·4	20	—	—	5 36?	-17	—	—

Mar. 1d. 20h. 1m. 42s. Epicentre 36°·8N. 30°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
25·9	314	e 5 41	- 6	10 20	0	13·3	17·2

Mar. 4d. 9h. 30m. 52s. Epicentre 6°·5N. 128°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
107·2	330	—	—	—	—	e 49·1	—

Mar. 7d. 20h. 32m. 30s. Epicentre 9°·5S. 84°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
93·5	38	—	—	24 51	0	—	—

Mar. 8d. 20h. 21m. 32s. Epicentre 43°·0N. 148°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
81·8	341	—	—	—	—	e 49·5	—

Mar. 13d. 19h. 36m. 0s. Epicentre 22°·5N. 126°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
92·4	330	—	—	—	—	e 47·0	—

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Mar. 15d. 1h. 30m. 30s. Epicentre 34°-0S. 57°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
99.1	328	—	—	—	—	e 54.5	—

Mar. 16d. 17h. 37m. 25s. Epicentre 16°-0S. 171°-0W.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	°	m. s.	s.	m. s.	s.	m.	m.
—	143.9	10	—	—	—	—	e 70.6	80.6

Mar. 17d. 4h. 36m. 40s. Epicentre 30°-0N. 129°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
87.1	331	—	—	—	—	e 47.3	56.3

Mar. 17d. 11h. 53m. 30s. Epicentre 13°-0N. 83°-0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
75.3	40	e 12 0	+ 9	21 32	+ 3	31.5	40.2

eN = +12m.31s., SR₁ = +26m.37s. = -29s., MN = +35.2m.

Mar. 18d. 14h. 6m. 0s. Epicentre 35°-0N. 29°-5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
26.5	317	e 6 2	+ 9	10 27	- 5	13.0	17.6

PR₁ = +7m.38s. = +68s., MN = +15.3m.

Mar. 18d. 17h. 52m. 44s. Epicentre 35°-5N. 29°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
26.3	316	e 6 33	=PR ₁	e 10 45	+17	13.3	16.5

Mar. 19d. 0h. 28m. 24s. Epicentre 35°-5N. 29°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
26.3	316	—	—	—	—	e 10.6	—

Mar. 21d. 12h. 5m. 48s. Epicentre 34°-0S. 57°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
99.1	328	—	—	—	—	e 59.2	—

Mar. 21d. 14h. 19m. 6s. Epicentre 61°-0S. 25°-0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
114.2	14	e 19 36	[+62]	e 29 18	+65	45.9	64.1

SR₁ = +35m.17s. = -17s., MN = +64.6m.

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Mar. 22d. 16h. 24m. 0s. Epicentre 35°-0N. 69°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
51.0	3612	—	—	—	—	30.0	—

Mar. 22d. 18h. 29m. 0s. Epicentre 7°-0S. 150°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
129.2	337	—	—	—	—	e 66.0	—

Mar. 23d. 1h. 58m. 35s. Epicentre 35°-5N. 29°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
26.3	316	1 25†	†	—	—	—	—

Mar. 24d. 7h. 4m. 30s. Epicentre 35°-5N. 29°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
26.3	316	—	—	e 10 4	-44	10.5	17.1

Mar. 24d. 11h. 7m. 8s. Epicentre 50°-0N. 97°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
56.7	312	—	—	—	—	e 31.9	—

Mar. 25d. 10h. 8m. 50s. Epicentre 8°-0S. 135°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
123.2	329	—	—	—	—	76.2	—

Mar. 27d. 10h. 48m. 22s. Epicentre 9°-5S. 157°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
134.1	340	e 22 7	†PR ₁	—	—	57.6	70.8

$\Delta N = +78.7m.$

April 1d. 10h. 3m. 46s. Epicentre 33°-0N. 137°-5E.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
-5.9	17.7	335	—	—	1 22 17	[-19]	40.2	—

$\Delta N = +23m.15s. = -25s.$

April 2d. 10h. 56m. 0s. Epicentre 35°-0N. 44°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
34	311	—	—	—	—	e 10.0	—

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April 5d. 23h. 29m. 6s. Epicentre 39°·0N. 30°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
24·1	49	e 5 29	0	e 9 47	+ 1	11·9	13·1

MN = +13·4m.

April 6d. 19h. 32m. 20s. Epicentre 42°·5N. 144°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
81·0	338	—	—	—	—	e 37·7	—

April 8d. 10h. 20m. 30s. Epicentre 5°·5S. 147°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
126·7	335	—	—	—	—	e 57·5	—

April 9d. 10h. 4m. 35s. Epicentre 73°·5N. 127°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
50·0	320	—	—	—	—	e 25·4	—

April 11d. 6h. 26m. 12s. Epicentre 40°·0N. 71°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
49·0	308	—	—	—	—	e 26·8	—

April 12d. 8h. 32m. 18s. Epicentre 11°·2S. 161°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
137·5	343	i 19 35	[+ 1]	e 34 25	?	54·7	69·7

PR₁ = +22m.9s. = -7s., MN = +69·1m.

April 22d. 23h. 47m. 52s. Epicentre 24°·7N. 145°·3E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
98·1	339	—	—	—	—	e 48·1	—

April 23d. 1h. 31m. 30s. Epicentre 27°·5N. 55°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
47·5	316	—	—	—	—	e 22·5	—

April 24d. 0h. 8m. 18s. Epicentre 30°·2S. 177°·7W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
158·6	5	e 20 11	[+ 5]	—	—	—	—

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April 28d. 11h. 13m. 40s. Epicentre 21°-5S. 72°-0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
96.0	36	e 13 13	-36	i 23 27	[-26]	36.3	50.2

$PR_1 = +16m.59s.$, $MN = +49.7m.$

May 5d. 6h. 21m. 18s. Epicentre 3°-0N. 91°-0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
88.4	39	i 13 8	+ 1	—	—	43.7	—

$e = +16m.41s. = PR_1 - 13s.$

May 7d. 6h. 11m. 18s. Epicentre 31°-5N. 141°-5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
90.5	337	—	—	—	—	34.7	65.2

$eN = +21m.34s. = PR_2?$, $L = SR_1.$

May 7d. 21h. 8m. 50s. Epicentre 38°-0S. 73°-5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
109.9	38	—	—	—	—	e 60.2	—

May 9d. 9h. 47m. 30s. Epicentre 45°-0S. 34°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
100.9	340	—	—	—	—	e 44.5	—

May 10d. 8h. 18m. 55s. Epicentre 27°-0N. 96°-0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
72.9	319	e 12 1	+26	—	—	31.1	—

May 11d. 11h. 20m. 15s. Epicentre 21°-0N. 106°-5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
83.2	39	—	—	—	—	39.7	—

May 12d. 3h. 45m. 30s. Epicentre 31°-0S. 72°-0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
103.6	37	—	—	—	—	e 56.5	—

May 17d. 17h. 18m. 0s. Epicentre 9°-0S. 159°-5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
134.4	342	e 19 0?	[-28]	—	—	73.0	—

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May 17d. 21h. 42m. 10s. Epicentre 14°·5S. 14°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
67·0	9	—	—	—	—	e 27·8	—

May 19d. 21h. 13m. 44s. Epicentre 27°·2N. 59°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
50·5	316	—	—	—	—	30·3	—

May 20d. 7h. 2m. 10s. Epicentre 5°·1N. 124°·8E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
106·7	328	17 50?	[-21]	e 27 31	+33	45·8	63·1

MN = +60·3m.

May 26d. 17h. 53m. 30s. Epicentre 14°·5N. 88°·7W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
77·7	39	—	—	—	—	e 34·5	—

May 26d. 18h. 43m. 56s. Epicentre 61°·0S. 25°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
114·2	14	—	—	—	—	e 53·1	61·4

May 26d. 19h. 44m. 58s. Epicentre 42°·0N. 142°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
81·0	339	1 12 19	- 6	e 22 2?	- 33	36·0	45·0

PR₁ = +15m.28s. = -30s., MN = +50·0m.

May 31d. 13h. 35m. 38s. Epicentre 34°·0N. 57°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
99·1	328	e 13 58	- 8	e 25 2	+15	44·4	68·4

eZ = +18m.4s. = PR₁ - 4s., MN = +70·4m.

June 3d. 4h. 46m. 44s. Epicentre 16°·0S. 168°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
143·4	348	e 19 38	[- 7]	—	—	66·3	—

PR₁ = +23m.24s. = +28s.

June 4d. 0h. 12m. 30s. Epicentre 47°·0N. 149°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
78·1	341	—	—	—	—	e 39·5	—

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June 4d. 6h. 50m. 45s. (I) } Epicentre 35°·0N. 90°·5E.
8h. 3m. 0s. (II) }

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I	63·8	318	e 10 15†	-22	—	—	29·2	36·6
II	63·8	318	—	—	—	—	e 33·0	—

I MN = +36·5m.

June 4d. 15h. 7m. 18s. Epicentre 43°·0N. 114°·5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	80·7	339	—	—	—	—	e 45·7	—

June 5d. 1h. 20m. 16s. Epicentre 17°·0S. 78°·5W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	96·1	38	—	—	—	—	48·7	—

June 5d. 19h. 50m. 16s. Epicentre 43°·0N. 130°·0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	75·9	30	e 12 1	+ 7	e 21 36	0	35·7	42·9

MN = +43·8m.

June 6d. 18h. 20m. 0s. Epicentre 43°·0N. 144°·5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	80·7	339	—	—	—	—	e 48·0	—

June 10d. 19h. 16m. 0s. Epicentre 38°·5N. 22°·5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	20·5	316	—	—	e 8 23	-11	—	—

June 12d. 23h. 29m. 45s. Epicentre 37°·0N. 2°·5W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	14·5	5	—	—	e 7 15†	+55	—	—

June 13d. 2h. 3m. 0s. Epicentre 20°·0N. 116°·5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	89·8	326	—	—	—	—	e 46·0	—

June 14d. 23h. 32m. 30s. Epicentre 40°·0N. 143°·5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
	83·3	338	—	—	—	—	e 50·5	—

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June 16d. 2h. 59m. 27s. Epicentre 46°·5N. 8°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
7·6	313	0 33?	-82	—	—	—	—

June 19d. 11h. 22m. 30s. Epicentre 7°·0S. 145°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
127·1	332	e 22 5	=PR ₁	—	—	—	—

June 20d. 6h. 54m. 18s. Epicentre 55°·0S. 27°·5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
108·8	17	e 14 49	- 3	e 24 49	[-15]	49·7	61·2

e = +18m.54s. = PR₁ - 16s., iZ = +28m.18s.

June 21d. 8h. 48m. 50s. Epicentre 32°·5N. 143°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
90·0	338	e 13 15	- 1	—	—	—	—

PR₁ = +16m.49s. = -17s.

June 22d. 4h. 51m. 30s. Epicentre 12°·0S. 177°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
140·5	3	e 19 36	- 4	—	—	—	—

June 24d. 21h. 16m. 24s. Epicentre 7°·6S. 128°·3E.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	°	m. s.	s.	m. s.	s.	m.	m.
—	119·2	326	e 18 36?	[-14]	—	—	71·6	—

June 24d. 21h. 16m. 44s. Epicentre 5°·5S. 130°·0E.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	°	m. s.	s.	m. s.	s.	m.	m.
—	118·4	327	e 18 16	[-32]	—	—	71·3	—

June 25d. 20h. 45m. 45s. Epicentre 22°·0N. 123°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
91·6	329	—	—	—	—	55·3	—

e = +46m.15s.

June 26d. 19h. 46m. 15s. Epicentre 36°·0N. 28°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
25·3	316	15 34	- 7	e 9 4	-65	10·8	13·8

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June 27d. 2h. 13m. 12s. Epicentre 36°·0N. 28°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
25·3	316	—	—	e 10 9	0	—	—

June 27d. 18h. 1m. 54s. Epicentre 19°·0S. 177°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
147·5	4	e 19 56	[+ 4]	—	—	83·1	—

June 28d. 3h. 23m. 20s. (I) } Epicentre 0°·5S. 100°·5E.
6h. 15m. 36s. (II) }

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
I 97·1	322	e 13 39	-16	24 17	+ 9	39·7	72·1
II 97·1	322	e 13 42	-13	24 17	+ 9	45·4	62·6

MN I = +74·9m., MN II = +64·3m.

June 28d. 21h. 14m. 36s. Epicentre 44°·5N. 11°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
10·2	317	e 2 24?	- 9	—	—	—	—

June 28d. 22h. 0m. 48s. Epicentre 48°·0N. 8°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
6·4	306	e 2 12?	+34	—	—	—	—

June 29d. 14h. 26m. 58s. Epicentre 27°·3N. 126°·8E.

Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
-2·8	88·5	330	1 12 45	- 7	1 23 7	[+ 6]	40·0	52·9

PR₁ = +16m.20s., SR₁ = +29m.26s., MN = +50·0m.

June 29d. 18h. 55m. 40s. Epicentre 7°·0N. 107°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
73·8	36	e 12 42	+61	—	—	44·3	—

June 29d. 23h. 20m. 40s. Epicentre 33°·0N. 123°·5W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
81·9	32	—	—	—	—	e 38·3	—

June 30d. 22h. 51m. 48s. Epicentre 38°·8N. 70°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
49·0	310	e 4 12?	?	—	—	28·2	—

Readings for Kew are also given at the following times, which do not fit any determined earthquake: Feb. 5d.2h., Mar. 16d.3h., April 2d.17h., 9d.4h., May 7d.22h., 23d.3h., 30d.11h., June 9d.5h., 6h., and 16h., 19d. 1h., 21d.1h.

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TABLE.

De- grees.	P sec.	S sec.	S - P sec.	De- grees.	P sec.	S sec.	S - P sec.	De- grees.	P sec.	S sec.	S - P sec.
1	15	28	13	51	553	991	438	101	855	1565	710
2	31	55	24	52	560	1004	444	102	860	1575	715
3	47	83	36	53	566	1016	450	103	865	1584	719
4	62	110	48	54	573	1029	456	104	870	1593	723
5	77	137	60	55	579	1041	462	105	874	1602	728
6	92	164	72	56	586	1054	468	106	879	1612	733
7	106	190	84	57	592	1066	474	107	884	1621	737
8	121	217	96	58	599	1079	480	108	888	1630	742
9	136	243	107	59	605	1091	486	109	893	1639	746
10	150	269	119	60	612	1103	491	110	897	1648	751
11	164	294	130	61	619	1116	497	111	902	1657	755
12	179	319	140	62	625	1128	503	112	907	1666	759
13	193	344	151	63	632	1141	509	113	911	1674	763
14	206	368	162	64	638	1153	515	114	916	1682	766
15	219	392	173	65	645	1165	520	115	920	1690	770
16	232	415	183	66	651	1177	526	116	925	1698	773
17	245	438	193	67	658	1190	532	117	929	1706	777
18	257	460	203	68	664	1202	538	118	934	1714	780
19	269	482	213	69	671	1214	543	119	938	1722	784
20	281	503	222	70	677	1226	549	120	942	1729	787
21	293	524	231	71	683	1238	555	121	947	1737	790
22	305	545	240	72	690	1250	560	122	952	1744	792
23	317	565	248	73	696	1262	566	123	957	1752	795
24	328	584	256	74	702	1274	572	124	961	1759	798
25	338	603	265	75	709	1286	577	125	966	1766	800
26	348	622	274	76	715	1297	582	126	970	1773	803
27	358	641	283	77	721	1309	588	127	974	1780	806
28	368	659	291	78	727	1320	593	128	978	1787	809
29	378	677	299	79	733	1332	599	129	983	1794	811
30	388	694	306	80	739	1343	604	130	988	1801	813
31	398	711	313	81	745	1355	610	131	992	1807	815
32	407	728	321	82	750	1366	616	132	996	1814	818
33	416	744	328	83	756	1377	621	133	1001	1821	820
34	425	760	335	84	762	1388	626	134	1005	1827	822
35	433	775	342	85	768	1399	631	135	1009	1833	824
36	442	790	348	86	773	1410	637	136	1014	1840	826
37	450	804	354	87	779	1421	642	137	1018	1846	828
38	458	818	360	88	785	1432	647	138	1023	1852	829
39	466	832	366	89	790	1443	653	139	1027	1858	831
40	475	847	372	90	796	1454	658	140	1031	1864	833
41	483	861	378	91	801	1464	663	141	1035	1869	834
42	491	875	384	92	807	1475	668	142	1039	1875	836
43	498	888	390	93	812	1485	673	143	1043	1881	838
44	506	902	396	94	818	1496	678	144	1047	1886	839
45	513	915	402	95	823	1506	683	145	1051	1892	841
46	520	928	408	96	829	1516	687	146	1055	1897	842
47	527	941	414	97	834	1526	692	147	1059	1902	843
48	534	954	420	98	840	1536	696	148	1063	1907	844
49	540	966	426	99	845	1546	701	149	1067	1912	845
50	547	979	432	100	851	1556	705	150	1071	1917	846

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