March 16, 1928

March 1 HARVARD UNIVERSITY, CAMBRIDGE, MASS., U.S.A.

RECORD OF THE SEISMOGRAPHIC STATION

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

h = 5.367 M. FOUNDATION: Glacial sand over clay. $\phi = 42^{\circ} 22' 36'' \text{ N}.$ $\lambda = 71^{\circ} 06' 59'' \text{ W. Gr.}$

TIME: Mean Greenwich, midnight to midnight.

No.	Date	lr damp€ Phase	ed, 10:1; Time	T=158. Periods	E-W Amplitudes	"dampe	d" 1.5:1 ca. T=15s REMARKS
		E Carrier	h. m. s.	8.	μ.	Kms.	
Blo M	ar 9	e _{mm}	18-27-34	10		16,000	U. S. Coast and
100		e EN	1.8-34-26	12			Geodetic prelimi-
		eII	18-37-08				nary determination
		en	18-41-10		Single School	Harris II	3°N 128°E approx.
		en	18-45-06	LEGICAL	STATE OF		
		in	18-45-44				
		en en en in ee in en min	19-14-08	90	40		
		101 N	19-23-38	28	42 14	Pari III	
		Man	19-28-36	22	27		
		MAN	19-30-32	20	42		
		M ₅ N	19-31-49	1.6 19	21	Market La	
		Men	19935-57	16	19		
		MANUAL MA	19-37-54	18	18		
		Men	19-39-44	18	24		
		MION	19-44-08	16	17		
		r _M	to				
			20-04 ca	mee la	pulling!	Similar I	
		e _N	20-04-54	16			
		e _N e _N	20-07-00	-		limit la	
		N	to	16	8	Madiene	
			2013-00				
		eN	20-16-32 to	513 4			
			20-18-56				
		F	20-14 ca	and they	E STEP STEP	A FIRST DA	
		F _E F _N	20-41 ca				
			- carefulated	Yellte	- TOTAL		以至 海流性 11、15年人
SIT Ma	r 16	eSR _{lEN}	5-39-02		(:	13,944)	(125.5° per
DII			5-50-36	70	90		St. Louis preli-
		eL_{E}	5-57-46	32	29	100	ninary determina- tion0=5h0lm00s
		MIN	6-05-48	20	17		23°S 171°E)
		Mil	6-06-38	(14mm to	race)	
		1M2N	6-06-35 to	4 64			The second second
	#	1 5 5	6-09-06	20	25	No. 11 Control	
			(Conclu	ded or	sheet	-5-)	
		10 15	a de malei	Off and	0 21018	31	THE RESERVE OF THE RE
				No.			
					-		
				3.			
							(For explanation of Symbols see other side)

The symbols, with the exception of a few additional characters, are those adopted by the International Seismological Association after Wiechert of Göttingen.

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O
PLongitudinal waves, and their time of arrival at the station.
PR ₁ " once reflected, and time of arrival at station.
PR ₂ " twice reflected, and time of arrival at station.
S Transverse waves, and time of arrival.
SR ₁ " once reflected, and time of arrival.
SR ₂ " twice reflected, and time of arrival.
PS Alternating waves, and time of arrival (= PR ₁ S = SR ₁ P).
LLong or surface or Rayleigh waves, and time of arrival.
M
M¹, M², M³, etc Successive maxima.
Lrep ₁ Long waves reaching the station from the antipodes of the epicentre
(anticentre); path $40,000 \text{ kms.} - \Delta$.
Lrep ₂ Long waves again reaching station from the epicentre; path 40,000
kms. $+\Delta$.
CCauda, end of Long waves, and beginning of trailers or tail.
FFinis, end of record on seismogram.
nSuperposed phase of another earthquake; e.g., Pn.
e(emersio), emergence of a phase not well defined; e.g., eP, eL.
i(impetus), a sharply defined impulse; e.g., iP, iS.
AnAmplitude of the N-S component of earth particle, deduced from the
motion of the pendulum, usually L or M.
AE The same for the E-W component of motion.
Az The same for the vertical component of motion.
γ
γu
φLatitude.
λ Longitude from Greenwich.
h Elevation above mean sea-level.
Δ
ca Approximately.
TPeriod, complete time of oscillation; for simple pendulum;
$2\pi\sqrt{\frac{1}{a}}$
ToPeriod of undamped pendulum of seismograph.
TePeriod of earth particle.
h, m, sTime, Greenwich Mean Time, midnight to midnight.
MTheoretical magnification of seismograph.
Ma Actual magnification for dempine ratio and next to the
Ma Actual magnification, for damping ratio and periods of earth particle

and undamped pendulum.

VP, Vs, VL......Velocity of P, S, and L waves respectively. (Klotz.)

*.....(large star) Epicentre. (After A. Siebert.)

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Measurements in the Metric System.

BIBLIOGRAPHY

Klotz, Otto: Seismological Tables. Publications of the Dominion Observatory, Ottawa. Vol. iii, No. 2, pp. 19-61. 1916.

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HARVARD UNIVERSITY, CAMBRIDGE, MASS., U.S.A.

RECORD OF THE SEISMOGRAPHIC STATION

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

 $\phi = 42^{\circ} 22' 36''$ N. $\lambda = 71^{\circ} 06' 59''$ W. Gr. h = 5.367 M. Foundation: Glacial sand over clay.

TIME: Mean Greenwich, midnight to midnight.

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS	
			h. m. s.	S,	μ.	Kms.	DE TABLE	
	Mar 16	(Con	cluded)	Well assit	a mily	SACTOR OF	Delta del del del del	
B11		O PAT	6-09-06	inited t	us exem	W.Frale		
		eM _{3N}	to		ened in my	comer les	A STATE OF THE STA	
-			6-10-52	19	20	Park in		
		iM _{4N}	6-10-52 to	all religi	The later			
			6-12-06	the little	entione =	avi la ja		
		iMZE	6-12-56	ente la triar	Extreme, 7/a		And a second	
		iM5N	6-12-36 6-13-50	2000	(91mm	trace)		
		iM _{2E} M _{5N} iM _{3E} M _{6N}	6-16-40	The same	1 CLIMIT	trace)		
			to 6-20-12	3.0				
		iM_{4E}	6-19-00	16	13	D mini ok	Market Committee of the	
		4FD	to			in streets is	treation and the second	
		7.17	6-21-30			trace)		
		M _{5E}	6-20-12	1 1001	(7mm	trace)	DEED TO SEE STORY	
			to					
		Mour	6-24-00	June 1		eanipilizar I		
		M7N M8N M9N M1ON M1N	6-30-23			iaj stoje l	Activity of the second	
		Man	6-31-48	a intuition	sunt mad	Cabiteria.	THE TENNER OF THE PARTY OF THE	
		MOLM	6-33-32	Con the			Things to see a second of the second	
		TIN	te				an lab	
		30	6-36-36	2 STEATH 175		HE THIS	mode for an artist of the second	
		Misn	6-36-40 to					
	in the	do est l'a	6-37-40	ni bareo	2 m 1 d 2 m il	wiff of las	sprovense-systemist eth	
		Misn	6-38-04				discussible and	
			6-43 ca	18	5	mon and		
		L _N	6-45-16	tenmo		all a tubi		
			6-58 ca	I mon an				
		eM _{14N}	6-59-30	D SEDLE	TIES TO SE	THE STATE OF		
		T.=TA	to			-1160		
		Ox.	7-02 ca 7-04-28	Single !			and Market	
		$\mathbf{r}_{\mathrm{N}}^{\mathrm{N}}$	7-05-44			METAL Tracks		
		10	to			AHEART 1		
		eM _{15N}	7-09 ca 7-09-48					
		TOM	to		California (C	the state		
		M	7-13-36	18	5	din peles dine		
		M _{16N}	7-13-40 to					
			7-15-20	18	5			
		M _{17N}	7-15-20 to					
			7-21 ca					
				1			(For explanation of Symbols see other sid	le)

The symbols, with the exception of a few additional characters, are those adopted by the International Seismological Association after Wiechert of Göttingen.

J	onal beisinological Association after Wiethert of Governgen.
	O. Time of earthquake at epicentre (or centre). (Seismol. Soc. Amer.). P. Longitudinal waves, and their time of arrival at the station. PR ₁ " once reflected, and time of arrival at station. PR ₂ " twice reflected, and time of arrival at station. S. Transverse waves, and time of arrival. SR ₁ " once reflected, and time of arrival. SR ₂ " twice reflected, and time of arrival. PS. Alternating waves, and time of arrival (= PR ₁ S = SR ₁ P).
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	M¹, M², M³, etc Successive maxima.
	Lrep ₁ Long waves reaching the station from the antipodes of the epicentre (anticentre); path 40,000 kms. $-\Delta$.
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	Az The same for the vertical component of motion.
	γ
	γu
	ϕ Latitude.
	λLongitude from Greenwich.
	h Elevation above mean sea-level.
	Δ Distance, from epicentre to station; deduced from records.
	caApproximately.
	TPeriod, complete time of oscillation; for simple pendulum;
	$2\pi\sqrt{rac{1}{g}}$
	ToPeriod of undamped pendulum of seismograph.
	TePeriod of earth particle.
	h, m, s Time, Greenwich Mean Time, midnight to midnight.
	M
	Ma Actual magnification, for damping ratio and periods of earth particle and undamped pendulum.
	VP, Vs, VL Velocity of P, S, and L waves respectively. (Klotz.)
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u.....(ultimus), a very distant earthquake, over 5000 kms. distant.

Measurements in the Metric System.

kms. Kilometers (1000 kms. = 621.38 English statute miles. 111.1 kms. = 1°).

M or m.....meter (s). (1 m. = 3.28083 feet.)

mm, Millimeters (1 mm. = 0.03937 in.).

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Bil Mar 16 Mar 16 Mar 22 if	No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
Mar 22 Mar 22 Mar 22 Mar 22 Mar 22 Mar 22 Mar 23 Mar 24 Mar 25 Mar 25 Mar 26 Mar 27 Mar 27 Mar 28 M	311	Mar 1	6	h. m. s.	5,	ш.	Kms.	
12 Mar 22 ip			M _{19N}	7-24-54 7-26.7 to 7-31 ca				
M12N 4-56	12		iP iPRIN iPR	4-23-45 4-24-43 4-25-17 4-29-21 4-29-25 4-31-09 4-32-09 4-33-23 4-35-49 4-36-45 4-37-37 4-40-29 4-41-21 4-43-09 4-48-01 4-49-49 4-50-33	19 19 19 19 19 19 14 14	198 175 143 17 20 67 41	3810	Press reports
1L _N 5-26-09 to to to 5-27-29 12 6 L _N 5-27.5 to 5-34-49 L _N 5-36 to 5-51 F _N 6-11 ca			¹ 12N 'N	4-56 4-57-09 4-57.5 to				La trava el fadiminado 1 2 3 1 construir de la deserción de la decembra de la de
LN 5-27-29 12 6 LN 5-34-49 LN 5-36-09 16 to 5-31 FN 6-11 ca Issued April 5. 1928		iL	N	5-26-09	6 2	6		Aprila 1.
IN 5-35-09 16 5+ to 5-51 FN 6-11 ca Issued April 5. 1928			N F	5-27-29 12 5-27.5 to 3-34-49	(101)	SERRE S		occinose actividades and an anticipal anticipal anticipal and an anticipal anti
Issued April 5. 1928 L. Don Leet. Upserver		-6	5	-35-09 16 -36 to -51	I ad to	+ anti-or Phylic anti-orall gr	7.8181	Floring to the state of the sta
L. Don Leet, (pagerre						I	saued	April 5, 1928
V WHITT I VOW						L	• Don	Leet, Opserver

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	γuMilligal, or 1/1000 gal. acceleration of 10 micra per sec. (Riotz).
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TIME: Mean Greenwich, midnight to midnight.

Instruments: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration). N-S air damped 10:1 To 15 s E-W 1.5:1 To 15 s

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
B13	Apr 3	eL _N	h. m. s. 17-14.5 17-27 ca	18-20	μ.	Kms.	
B16	Apr 9	(e _N) (e) eL eM F O ((17-43-53) (17-51-44) 16-00-30 18-04-44 18-40 ca 17-34-04)	20	trace 5	(6300)	U.S. Coast & Geodetic Preliminary Determinatio 13.0 S 69.5 W
B17	Apr 13	e (eL) (eM)	23-23-05 25-25-13 25-28-41 23-34-21 23-36.9 23-39.1 23-44.7 23-45 to 20 23-57 to 00		1.5 mm		W.S. C&G.S. prelim. determination gives 12.8 N. 95.0 W 023-15-40
B18	Apr 14	O (e(p) (e(s) e(s) eL eM L	9-00-27) 9-11-13) 9-18-57 9-20-00 9-23-57 9-30-13 9-33-05 9-43-21 9-43 to 9-50 10-20 ca	24 15 14	1 mm t:	(7340)	
B19	Apr 17	eS iN eLI i eLII	(3-25.7) 3-31-28 3-36-33 3-37-03 3-38-46 3-42-50 3-44-46 3-47 3-48 4-30 ca	Harris de la companya	a calcula to acceptante de lando de alto lando de alto C. 115 — Jan A 127022 C. CEROJO — emilios a h ematicalla a emilios de		U.S.C. & G.S. prelim. determination gives Lat. 16 N Long. 95.5 W (Absolute time uncertai within two seconds)
			V				(For explanation of Symbols see other side)

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 C	Lrep ₂	
 F	0	
 n		
 e		
 i		
 An		
motion of the pendulum, usually L or M. AE		
AE	AN	
Az		
γGal, or unit acceleration, one centimetre per sec. per sec.		
γu		
	γu	. Milligal, or 1/1000 gal. acceleration of 10 micra per sec. per sec. (Klotz).

caApproximately.

λ.....Longitude from Greenwich. h..... Elevation above mean sea-level.

 ϕLatitude.

T......Period, complete time of oscillation; for simple pendulum;

To......Period of undamped pendulum of seismograph.

Te..... Period of earth particle.

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No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
			h. m. s.	s,	μ.	Kms.	
B20	Apr 19	is e e e LM L F	19-42-52 19-43-54 19-55-58 19-54-33 19-55-04 19-57-44 19-59 to 20-17 20-45 ca	34 16	2.5 tr	(7200) (L-S) ace	U.S.C.& G.S. gives O 19-23-00 Lat 42.3 N Long 24.8 E Preliminary Determinat
B21	Apr 25	eL M F	23-37-59 23-36-06 25-33-21			(200)	Reported from Western Maine
B22	Apr 27	e L F	20-52-16 21-09 21-15 21-25	17 17	.5 mm	trace	
		ing des	Appendiction of the control of the c	ade la Súntida La viera Sur guir Elsurpen Básik A	maluborge self-media self-media me	agarkau i ng dispole (dasawa masao lay stadiosea ng agard ng E A lan asaogir (ag	
	F1850		and and an expension of the contract of the co	del et rollen mort e	a chorte de standardo standardo contactos	Corner agent color agent colores agent potentica agent	PLANT
		anne	ib and 000 the	idada da) da)	3,29083 6 3,29083 6 = 0,08983	(400) (1000) (100) (100) (100)	Second with the statement with the second se
		ers, Otter	are 10 noisin		o sugari		
					1	1	(For explanation of Symbols see other side)

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		. Time of earthquake at epicentre (or centre). (Seismol. Soc. Amer.).
		.Longitudinal waves, and their time of arrival at the station.
	PR_1	
	PR ₂	
	S	. Transverse waves, and time of arrival.
	SR_1	
	SR_2	. " twice reflected, and time of arrival.
	PS	. Alternating waves, and time of arrival (= $PR_1S = SR_1P$).
	L	.Long or surface or Rayleigh waves, and time of arrival.
	M	. Maximum of Long waves, and time of arrival.
	M1, M2, M3, etc	.Successive maxima.
	$Lrep_1$.Long waves reaching the station from the antipodes of the epicentre
		(anticentre); path 40,000 kms. $-\Delta$.
	$Lrep_2$	Long waves again reaching station from the epicentre; path 40,000
		kms. $+\Delta$.
	C	.Cauda, end of Long waves, and beginning of trailers or tail.
	F	. Finis, end of record on seismogram.
		.Superposed phase of another earthquake; e.g., Pn.
	e	. (emersio), emergence of a phase not well defined; e.g., eP, eL.
	i	. (impetus), a sharply defined impulse; e.g., iP, iS.
	An	.Amplitude of the N-S component of earth particle, deduced from the
		motion of the pendulum, usually L or M.
	AE	. The same for the E-W component of motion.
	Az	. The same for the vertical component of motion.
	γ	.Gal, or unit acceleration, one centimetre per sec. per sec.
	γu	. Milligal, or 1/1000 gal. acceleration of 10 micra per sec. per sec. (Klotz).
	φ	.Latitude.
	λ	.Longitude from Greenwich.
	h	. Elevation above mean sea-level.
	$\Delta \dots \dots$. Distance, from epicentre to station; deduced from records.
	ca	
	T	.Period, complete time of oscillation; for simple pendulum;
		$2\pi\sqrt{\frac{1}{a}}$
	To	Period of undamped pendulum of seismograph.
		Period of earth particle.
		Time, Greenwich Mean Time, midnight to midnight.
		Theoretical magnification of seismograph.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

	1							
No.	Date	е	Phase	Time	Periods	Amplitudes	Δ	REMARKS
B23	May	l k	(L)	h. m. s. 19-22-22 19-23-26 19-33-40	s. 12	μ. 1 mm tr	kms.	
B24	May :	iP is is	R1 R2	22-14-33 22-23-87 22-35-34 22-36-31 22-34-07 23-35-59 22-36-03 1-45 ca		3 mm 3 mm	5400	S amplitude large and L unusually small relatively
B25	May :	e	P S L F	2-44-59 2-51-51 2-53 2-30 ca			5180	0 2-36-19
B26	May 2	eL M	1	10-14-38 10-36 10-43 10-51.5 11-25 ca	30	3 mm) U.S.C.&G.S. pre- liminary determination 39 N. 149 E. 0 9-51
					control of	Post I	L. Don	Leet, Observer
	7			of Tempo	(200 (200) (200) (200)	readoure	on the put during the	

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)
	2 Longitudinal waves, and their time of arrival at the station.
	PR ₁ " once reflected, and time of arrival at station.
	PR2 " " twice reflected, and time of arrival at station.
	R ₁ " " once reflected, and time of arrival.
	R ₂ " twice reflected, and time of arrival.
	PS
	Long or surface or Rayleigh waves, and time of arrival.
	M Maximum of Long waves, and time of arrival.
	M1, M2, M3, etc Successive maxima.
	Lrep ₁ Long waves reaching the station from the antipodes of the epicentre
	(anticentre); path 40,000 kms. $-\Delta$.
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	kms. $+\Delta$.
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	Superposed phase of another earthquake; e.g., Pn.
	e (emersio), emergence of a phase not well defined; e.g., eP, eL.
	(impetus), a sharply defined impulse; e.g., iP, iS.
	ANAmplitude of the N-S component of earth particle, deduced from the
	motion of the pendulum, usually L or M.
	AEThe same for the E-W component of motion.
	Az The same for the vertical component of motion.
	Gal, or unit acceleration, one centimetre per sec. per sec.
	yu Milligal, or 1/1000 gal. acceleration of 10 micra per sec. per sec. (Klotz).
	bLatitude.
	Longitude from Greenwich.
	1 Elevation above mean sea-level.
	1
	ea Approximately.
	ΓPeriod, complete time of oscillation; for simple pendulum;
	elimenta veninal
	$2\pi\sqrt{rac{1}{g}}$ and $2\pi\sqrt{rac{1}{g}}$
	ΓοPeriod of undamped pendulum of seismograph.
	ΓePeriod of earth particle.
	n, m, sTime, Greenwich Mean Time, midnight to midnight.
	M Theoretical magnification of seismograph.
	MaActual magnification, for damping ratio and periods of earth particle
	and undamped pendulum.
	VP, Vs, VL Velocity of P, S, and L waves respectively. (Klotz.)
	*
	(large sour) Epideliute. (Alter II. Diebette)

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TIME: Mean Greenwich, midnight to midnight.

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
			h. m. s.	s.	μ.	Kms.	
B27	June 1	5 eL	7-27 to 7-41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and To be	
B28	June 15	eL	1.3-23 to 18-50	Harpetz Harbetz	a miliera la suda e la di		
B29	June 17	0	3-1907	= 10 Au	English -	3900	(By Macelwane Tables)
		iP iPR1 iPR2 i e i i es i iL i eM	3-33-18 3-37-20 3-37-44 5-38-28 3-39-56 3-31-04 5-31-48 3-35-34 3-36-08 5-37-04 3-33-36	o Jesus Van Jesu	7 mm tr	O cert si	U.S.C.&G.S. gives preliminary Lat. 14 N Long. 96 W
		M1 M2 M3 i M4 M5 M6 M7 i eLrep	3-41.3 3-42.8 3-46.4 3-48.4 3-49.2 3-52.5 4-06.2 4-30-30 5-53 6-38 ca	12	21 mm 34 mm 35 mm 40 mm 25.5 mm 16 mm	in the condi- tion of the condi- tion of the con- tion from the in the condi- tion of the condi- tion of the condi- tion of the condi-	(All amplitudes on N-S comp.)
B30	June 21	0 i i eL M1 M2 M3 M4 F	(16-26.9) 16-43-55 16-46-49 16-47-32 16-50-17 16-53.5 16-55.0 16-56.5 16-58.2 18-30 ca	14	21 mm 14 mm 14.5 12.5	(5300)	U.S.C.&G.S. pre- liminary determi- nation: Lat. 61.3 N Long. 148.7 W
B31	June 29	e e M1 M2 F	23-24.3 22-37.3 23-55.8 23-01.8 24-50 ca	O od	enelling e e Ermonens e zarineali	objection (St. Louis pre- liminary determi- nation: Lat. 18 S. ong. 172 E O22-49-23
				200	L. D	on Leet	, Observer

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			Territoria				DELL'AND DE
No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
B32	July 7	e L L F	h. m. s. 3-55.9 3-59.0 4-01.6 4-09 ca	s.	μ	Kms.	Obscured by Microseisms. Probably nearby epicenter (cf. Ottawa
B33	July 9	e i L L F	22-04.5 22-19.5 22-24 22-29 22-36 23-05	14 20 18	i mm	con feeta. Usade e. ; feeta 25 et Sour etta 3 feeta sour es r sd2 sour e	#3200)
B34	July 10	(e) (e) L L	(2-11) (2-17.5) 2-22 2-26 to 2-35 2-45 ca	i in and			
B35	July 18	O iP iS i eSR1 eL M1 M2 F	19-04-48 19-13-42 19-20-46 19-22-48 19-24-20 19-28-18 19-34-50 19-39 20-36 (Ro	18 16 om en	rend for	5400	U.S.C.&G.S. pre- liminary determi- nation: Lat. 6.5 S Long. 79.5 W
B36	July 30	e L F	2-52.0 3-03 to 3-08.5 3-15 ca		n 1906a la Kangalituriya Siyadi wa 1	esid vil te esid vil te esid (sani esiden e esidire (s	ente descriptada en ente de la compara de la
		of all	A and the late.	pilagil d (cto) (du); (luc) = (luc)	28082 U		

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O	
PLongitudinal waves, and their time of arrival at the station.	
FR1 Once renected, and time of arrival at Station.	
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S Transverse waves, and time of arrival.	
SR ₁ " " once reflected, and time of arrival.	
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PS Alternating waves, and time of arrival (= $PR_1S = SR_1P$).	
LLong or surface or Rayleigh waves, and time of arrival.	
M Maximum of Long waves, and time of arrival.	
M¹, M², M³, etc Successive maxima.	
M', M', W', etc Successive maxima.	
Lrep ₁ Long waves reaching the station from the antipodes of the epicentre	
(anticentre); path 40,000 kms. $-\Delta$.	
Lrep ₂ Long waves again reaching station from the epicentre; path 40,000	
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Could and of I and wayer and haginning of trailers or tail	
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An Amplitude of the N-S component of earth particle, deduced from the	
motion of the pendulum, usually L or M.	
AE The same for the E-W component of motion.	
Az The same for the vertical component of motion.	
γGal, or unit acceleration, one centimetre per sec. per sec.	
7	
$\gamma_{\rm U}$	
$\phi \dots \dots \dots$ Latitude.	
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_	
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No.	Date	Phase	Time	Perio	ds Amplitue	des Δ	REMARKS
B37	Aug 4	iS	18-26-5 18-33-0 18-38-3 18-40-3 18-41-3 18-48-36 18-49.8 20-20 ce	4 8 8 4 0 3 8 20	μ. 15 n	374 m	U.S.C.&G.S. gives Lat 14 N Long. 98 W
B38	Sept 2	e(S) e e(L) M F	0-05-45 0-09-25 0-10.9 0-15.9 0-35 ca	8 (1	7)		
B39	Sept 11	eP ePR1 eS eL L F	12-36-34 13-44-34 13-45-57 13-50-35 12-56-17 13-39.0 13-50		Saba	4440	U.S.C.&G.S. gives Lat 42 N Long. 131.9 W
B40	Sept 22	O eLE eM1E M2E FE	7-30-40 8-32.4 8-37.5 8-45 9-15	(Ctta 20 19	wa)	(14,000	O) St. Louis gives Preliminary O = 7-31 Lat 14 S Lorg 164 E
B41	Oct 9	O iPE iM iSE iSRLE eLE FE	3-00-30 3-07-29 3-09-59 3-13-01 3-15-06 3-15-33 4-45	elice o	70 mm (3740	(Klotz Tables) U.S.C.&G.S. gives Lat. 15 N Long 97 W
342	Oct 25	O eL _E iM _E F _E	(12-33.0) 13.51.4 12-53-28 13-05 ca	(M-L)	Edito ducia Edito - ad Edito - Edito - 1	(3700)	U.S.C.&G.S. gives Lat 12. N Long 86 W
					L.	Don Le	eet, Observer
00	tober 28	3, 192	3; 13 h GM	- E1 4		1 0 1 1 1 1 1	ed and dismantled stallation of graphs Nos. 43 & 44 L.D.L
							(For explanation of Symbols see other side)



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P Longitudinal waves, and then said time of arrival at station. PR	
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PR2	
S	
" Once renected, and this of the	
" twice repected, and time of all tweether	
Alternating waves and time of arrival (= 110) - Site /	
Tome or currence of Ravieren waves, and the	
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Finia and of record on seismogram.	
(courts) organize of a Dilase Hou were	
e(emersio), emergence of a plant i(impetus), a sharply defined impulse; e.g., iP, iS. i(impetus), a sharply defined impulse; e.g., iP, iS.	
i	
AN Amplitude of the N-5 component of M.	
AE The same for the E-W component of motion.	
Az The same for the vertical component of metro per sec. per sec.	
Az	
Milligal, or 1/1000 gar. acceleration of 10 mass p	
Latitude.	
Longitude Irom Greenwich.	
	,
A Distance, from epicentie to station,	
ca	
2	
$2\pi\sqrt{rac{1}{a}}$	
ToPeriod of undamped pendulum of seismograph.	
Te	
h, m, s Time, Greenwich Wear Third, in the spirit and the spi	
h, m, s Third, directivated in the control of the second particle of the control of t	
MaActual magnification, for damping reasons	
and undamped bellumin.	
TT TT VOLCOITY OF P C SHULL WAVES TOOP	
VP, VS, VL Venocity of 1, 5, that *	
The characters	
The following notation proposed by Wiechert is employed in many publications. The characters	
are implied by Δ and A .	
are implied by a different state of earthquakes.	
I, Notable; II, striking; III, strong; referring to the intensity of earthquakes.	
(domesticus), a local shock; e.g., Id.	

d.....(domesticus), a local shock; e.g., Id.

v.....(vicinus), a nearby earthquake, under 1000 kms. distant; e.g., IIv.

r.....(remotus), a distant earthquake, from 1000 to 5000 kms.

u.....(ultimus), a very distant earthquake, over 5000 kms. distant.

Measurements in the Metric System.

kms. Kilometers (1000 kms. = 621.38 English statute miles. 111.1 kms. = 1°). M or m.....meter (s). (1 m. = 3.28083 feet.)mm. Millimeters (1 mm. = 0.03937 in.).

BIBLIOGRAPHY

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