Meteorologiska Institutionen
Upsala

International
Seismological
Centre

國立中央研究院氣象研究所

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符號凡例

1. 地震之性質

I. 可辨別　II. 稍强　III. 强

d. 局部地震　(震源在一百粁以內)

v. 近地地震　(震源在一千粁以內)

r. 遠地地震　(震源在五千粁以內)

u. 極遠地震　(震源在五千粁之外)

2. 震波圖之相位

P　縱波　(或初期微動之第一前走波)

PR_1. PP　縱波對於地球表面經一次反射之波

PR_2. PPP　縱波對於地球表面經二次反射之波

S　橫波　(或初期微動之第二前走波)

SR_1. SS　橫波對於地球表面經一次反射之波

SR_2. SSS　橫波對於地球表面經二次反射之波

PS, SP　變轉波卽縱波(橫波)對於地球表面反射時所變轉之橫波(縱波)

L　主要動之地面波

M_1, M_2. …　地面波之極大動

C　終期尾動

F　能認別之最終動

3. 運動之種類等

i　相位之明顯者

e　相位之不明顯者

?　相位之可疑者

T　週期(以秒爲單位)

A　實際上地面震動之半震幅(以μ, 千分之一粍, 爲單位)

△　震央距離(以粁爲單位)

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Symbols and Notations

1. Character of the Earthquake—

I. Perceptible. II. Moderately strong. III. Strong.

d (terrae motus domesticus)	Local shock (origin less than 100 km. distant).
v (terrae motus vicinus)	Near shock (origin from 100 to 1,000 km. distant).
r (terrae motus remotus)	Distant shock (origin from 1,000 to 5,000 km. distant).
u (terrae motus ultimus)	Very distant shock or teleseism (origin more than 5,000 km. distant).

2. Phases of the Seismogram—

P (undae primae)	Normal first phase, or first preliminary tremors (longitudinal).
P'	First preliminary tremors which have penetrated the core of the earth.
PRn	Waves n times reflected at the earth's surface.
S (undae secundae)	Second phase, or second preliminary tremors (transverse).
SRn	Waves n times reflected at the earth's surface.
PS, SP	Waves changed from longitudinal to transverse oscillation or vice versa through reflection at the earth's surface.
PPS	Waves twice reflected at the earth's surface, having been longitudinal on two branches of the path and transverse on one branch.

In general, a bar over two letters denoting types of waves indicates refraction. The subscript c denotes the boundary at about 2900 km. depth between the metallic core and the middle shell which surrounds it. Thus:

ScPcS	Waves which have penetrated the core, having been tranverse before entering and after leaving the core, and longitudinal within the core.
$\overline{\text{PcPcPcP}}$	Waves refracted at the core boundary into the core, reflected once at this boundary while within the core and again refracted out of the core, having remained longitudinal on all branches of the path.

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L (undae longae)	Long waves of surface phase preceding M.
M (undae maximae)	Shorter and more regular waves of large amplitude in the surface phase.
W_2. W_3. W_4...	The maximum waves coming again to the statio after circumscribing the earth once, twicen etc.
C (coda)	Tail or end portion.
F (finis)	End of discernible movement.

3. Nature of the motion

i (impetus)	Sudden beginning of the motion.
e (emersio)	Gradual beginning of the mction.
?	Questionable or uncertain.
m	Maximum wave in any phase.

4. Time—

All determinations are reduced to Greenwich mean time. The contact, clock which gives the time mark is daily corrected by radio with the time signal from Zi-ka-wei Observatory.

Constants of the Seismographs

1. Mechanical Registration.

Apparatus	Component	V	T_o	$\in$	r
Wiechert 17,000 kg.	N	1510	1.60	2.8	0.19
	E	1470	1.50	2.0	0.15
Wiechert 1,300 kg.	Z	156	4.45	3.3	0.51

2. Galvanometric Photographic Registration.

Constants of Galitzin-Wilip.

Component	Galvanometer Free Period T_1	Pendulum Free Period T	Damping Constant u^2	Transmision Factor k	Synchronous Magnification $\frac{kAT}{4\pi 1}$
N-S	11.02	9.12	+0.73	152	1217
E-W	10.84	9.20	+1.02	107	900

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
679	1935 Jan. 1	IIu	iP_E	13	32	39					(9,	33)	8135	Up. Abnormal focus.
			iPcP	13	33	48								JSA: 14.8°S, 175°W.
			PP	13	35	40								
			PPP	13	37	09								
			iS	13	42	12								
			e	13	46	18								
			SS	13	46	55								
			SSS?	13	50	45								
			L	13	56.8									
			F	14	10									
680	Jan. 2	Or	P	22	28	59								
			e	22	33	20								
			eL	22	37	27								
			F	22	55									
681	Jan. 3	IIIr	iP_E	1	55	44					(4,	42)	2980	In region of 33°N, 87°E, Tibet.
			PP	1	56	34								Time marks failed on G-W.
			iS_E	2	00	26				15				
			SS	2	01	04								
			L_N	2	04	25			13					
			L_E	2	04	47								
			M_1	2	07	06			10	10				
			M_{2E}	2	07	58								
			M_{2N}	2	08	21			10					
			M_{3E}	2	09	12				10				
			F	3	30									
682	Jan. 3		e	7	04	15								
			F	7	14									

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	1935													
683	Jan. 3		e	12	35	39								
			F	12	45									
684	Jan. 4	Iu	eP_E	14	52	49					(9,	24)	7965	
			eS	15	02	13								
			L_Z	15	13.9									
			M	15	27	07				20	20	21		Continued by next.
685	Jan. 4	Iu	e	16	31	28					(9,	43)	8360	
			S	16	41	11								
			M	17	06	14				16	17			
			F	17	50									
686	Jan. 6		eL	11	59	—								Trace.
687	Jan. 8	Ir	eP	12	54	09?					(3,	10)	(1820)	Felt at Laoag, P. I.
			e(S)	12	57	19								
			iL	12	59	47								
			M_1	13	02	38				10	12			
			M_2	13	03	35				10	11			
			F	13	25									
688	Jan. 10		eP	11	31	02								In minute eclipse.
			L	11	34	58								
			M_N	11	36	20				8				
			F	11	46									
689	Jan. 11	Ir	P?	0	11	43					(2,	37)	1465	Felt at Aparri.
			i	0	12	16								Manila: 19°N, 120° E.
			S	0	14	20								

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689	1935 Jan. 11 (Cont'd.)	Ir	iL	0	16	48				12					
			M_N	0	19	28				9					
			F	1	09										
690	Jan. 14	Or	eP	2	10	21							(4,	33)	2855 Manila: in region of 6°N, 127°E.
			S	2	14	54									
			i_N	2	15	10									
			L	2	19.5										Changing papers.
691	Jan. 14	Ov	e	14	15	10							(0,	49)	480 Strong micro.
			S	14	59	59									
			e_N	14	16	39									
692	Jan. 14	Or	eP	22	33	05							(4,	40)	2955
			S	22	37	45									
			i_N	22	42	32									
			F	23	05										
693	Jan. 16		e_E	15	02	47									Very small and inevident on G-W.
694	Jan. 17	Iu	iP	2	19	33							(9,	12)	7730 Manila: 19°S, 165 E.
			iS	2	28	45									
			i_E	2	30	08									
			L_N	2	39	52									
			M	2	46	02				24		22			
			F	3	—										
695	Jan. 18	IIv	iP	17	16	13							(1,	59)	1180 SE off Ishigakijima.
			S	17	18	12									
			e	17	18	28									

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	1935													
695	Jan. 18 (Cont'd.)	IIv	iL	17	18	52								
			M_1	17	19	33				6				
			M_2	17	21	03						9		
			F	18	10									
696	Jan. 18	Or	eP_E	20	38	51					(2,	39)	1490	
			S	20	41	30								
			L	20	43	12								
			F	20	56									
697	Jan. 19	Ov	e_N	11	23	09								Clock work of E–W comp. stopped.
			L_N	11	25	51								
			M_{1N}	11	26	49				18				
			M_{2N}	11	28	43				14				
			F	11	47									
698	Jan. 19		e	16	39	40								Very small.
699	Jan. 22	O	eP	0	44	14								
			e	0	47	10								
			m	0	47	34								
			F	0	53									
700	Jan. 22	Ir	iP	15	04	20					(6,	02)	4235	Deep focus type.
			i_N	15	05	03								Manila: 2°S, 141°E.
			iS	15	10	22								
			i_N	15	11	21								
			iSS	15	13	22								
			L	15	16.2					13				
			F	15	40									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
701	Jan. 23	IIu	iP	7	33	32					(7,	37)	5940	Up. Aleutian Islands.
			iS	7	41	09								Data from Wiechert.
			L?	7	45	25								
			M_1	7	52	19				26	26	26		
			M_2	7	53	30				24	25	25		
			M_3	7	56	09				19	20	20		Continued by next.
			F	8	40									
702	Jan. 23		e	8	07	50								Superposed on No. 701.
703	Jan. 28		e	2	18	22								Very small.
704	Jan. 28		e	9	54	46								”
705	Jan. 30	Ir	P	0	40	42					(4,	28)	2790	
			S	0	45	10								
			iL_E	0	48	38								
			L_N	0	48	52								
			M_1	0	50	18				9				
			M_2	0	51	29				10				
			M_E	0	52	12					9			
			F	1	40									
706	Jan. 30		e(S)	7	37	05								Very small.
			F	7	50									
707	Jan. 31	Or	eP	12	05	46					(3,	59)	2410	
			S	12	09	45								
			L?	12	12	51								
			F	12	26									

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
708	Jan. 31	Iu	P	17	56	19							(8,32) 6900	Manila: approx, 2°S.171° E.
			iS_N	18	04	51								
			e	18	06	12								
			e	18	09	02								
			F	19	12									
709	Feb. 3	Ir	P	2	47	53							(5,57) 4150	Data from Wiechert.
			S	2	23	50								
			F	2	40									
710	Feb. 3		eP	21	02	18								Very small.
			e_N	21	02	31								
711	Feb. 4	O	e_N	8	01	37								
			eL_N	8	10	55								
712	Feb. 4		eP	17	37	05?								Minute marks failed.
			e	17	47	41								
713	Feb. 4	Ir	iP	21	13	44?							(3,36) 2135	,,
			eS	21	17	20								
			L?	21	20	20								
			F	21	55									
714	Feb. 4		e	22	24	20								Very small
715	Feb. 5		e	19	07	20								Time correction uncertain.
			i	19	07	54								
			eL	19	09	20								
			F	19	25									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
716	1935 Feb. 7	Ir	iP	17	32	00					(3,	33)	(2090)	Up from NE.
			e(S)	17	35	33								
			e	17	35	51								
			i_N	17	37	23								
			i_E	17	38	09								
			$L_{E,Z}$	17	39.8									
			L_N	17	40	41								
			M	17	43	55				12				
			F	18	30									
717	Feb. 9	IIIv	iP	19	21	37					(1,	23)	(810)	Down.
			i_E	19	22	27								Taihoku: 24.2°N, 121.6°E.
			e_N	19	22	47								Felt at Taihoku and Karenko.
			$e(S)_E$	19	23	00								
			$iL_{N,Z}$	19	23	25								
			M_1	19	24	20	mr 92.6		63			3		Max. trace amplitude.
			M_2	19	24	46		mm. 111						Light too faint.
			F	20	35									
718	Feb. 10	Or	P	18	32	52					(2,	50)	1610	Micro. strong.
			iS	18	35	42								
			F	18	45									
719	Feb. 10		e	20	18	44								Very small.
			e	20	21	27								
			eL	20	22	36								
			F	20	36									
720	Feb. 17	Ir	eP	16	15	25					(1,	59)	1180	Taihoku: 121.6°E, 24.2°N.
			S	16	17	24								Felt at Karenko.

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720	1935 Feb. 17 (Cont'd.)	Ir	L	16	17	54								
			M_N	16	18	56								
			F	16	47									
721	Feb. 19	Or	e	7	45	33					(2,	40)	1500	Very weak beginning.
			S	7	48	13								
			L	7	49	20								
			i_E	7	49	38								
			M	7	50	27				6	6			
			F	8	08									
722	Feb. 19	Ir	iP	20	14	32					(3,	36)	2135	Tiba Prefecture, Japan.
			PP	20	14	50								
			e_N	20	15	38								
			S	20	18	08								
			i	20	18	31								
			M_{1N}	20	20	35				8				
			M_N	20	20	55				7				
			F	21	00									
723	Feb. 21	IIr	eP_E	18	41	46					(2,	56)	1665	Very weak beginning.
			eS	18	44	42								
			i	18	45	33								
			L	18	45	53								
			i	18	46	29								
			M_E	18	47	02					6			
			F	19	25									
724	Feb .21		e	20	15	08								Very small.
			M	20	16.4									

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	1935													
725	Feb. 22	IIv	e	8	57	40							970	Preliminaries weak.
			S	8	59	19								Taihoku: 121.8°E, 24.2°N.
			L	8	59	52								Felt at Karenko and Taihoku.
			M	9	01	37								
			F	9	5-									Masked by strong micro.
726	Feb. 22	IIIu	eP	17	14	24							5045	Up.
			iP'	17	14	35								JSA: 50.5°N, 176.6°E.
			iS	17	21	11								USCGS: 52°N, 175 W.
			L_E	17	25	09								
			L_{1N}	17	26	03								
			L_{2N}	17	27	15								
			M_1	17	32	27				16	13	17		
			M_2	17	34	17				12				
			M_3	17	35	49				16	16	16		
			M_4	17	37	09				14		16		
			M_5	17	38	11				15				
			M_6	17	39	19				14				
			M_E	17	42	55					16			
			F	20	30									
727	Feb. 23	IIr	e	20	54	30?							1100	Taihoku: 121.6°E 24.2°N.
			iS	20	56	21								Felt at Karenko and Taihoku.
			L	20	56	46								
			M	20	57	50								
			F	21	40									
728	Feb. 24		eL	0	20	±								Trace.
729	Feb. 24		eL	15	59	±								Trace.

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	1936													
730	Feb. 25	Iu	e	3	02	17					(10,	36)	9555	UGEGI: 35.5°N, 24°E,
			$i_{N,E}$	3	12	21								Destructive in Cretes.
			iS	3	12	53								
			eL	3	22	–								
			F	4	10									
731	Feb. 27	Ir	iP_N	9	15	34					(4,	42)	2980	Netherland East Indies.
			e_N	9	19	05								
			S_N	9	20	16								
			L_N	9	24	24								
			F	10	15									
732	Feb. 28	Or	e	1	04	25					(6,	37)	4860	Very small.
			S	1	11	02								
			L	1	18	±								
			F	1	46									
733	Feb. 28	Id	iP_E	6	22	37					(0,	06)	50	Small local shock.
			iS	6	22	43								
			F	6	25									
734	Mar. 1	O	eP	0	07	56								Felt moderately at Karenko.
			e	0	09	57								
			e	0	10	22								
			F	0	15									
735	Mar. 3		e	2	22	20								Very small, Ditto
736	Mar. 3		e	2	26	12								
			e	2	28	53								,, ,,

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	1935													
737	Mar. 3		e	22	54	37								Trace.
			m	23	01	16								
			F	23	15									
738	Mar. 4		eS	16	25	44								Trace only.
			eL	16	31.5									
739	Mar. 4		e	19	50	34								Very small.
740	Mar. 5	Iu	eP	10	36	26					7,	12	5490	
			eS	10	43	38								
			SS_N	10	47	50								
			eL	10	55	—								
			M_N	10	58	58			18					
			F	11	33									
741	Mar. 5	Ir	eP?	22	22	27					(5,	21)	3580	Beginning uncertain.
			S	22	27	48								
			e_N	22	29	27								
			i_N	22	30	17								
			L	22	33	37								
			M_1	22	34	27			8					
			M_2	22	35	21			12					
			M_3	22	37	43			9					
			F	23	22									
742	Mar. 6		eL	7	57	+								
			M	7	12	17			10					
			F	7	30									

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No. 3

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$\varnothing = 32°03'11''N$ $\lambda = 118°46'55''E$ h = 60m. Underground: Conglomerate.

No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
743	1935 Mar. 7	Ir	eP	10	30	46					(3,	27)	2020	Oga Peninsula, Akita, Japan.
			S	10	34	13								
			L	10	36	05								
			M_N	10	38	29				12				
			F	11	20									
744	Mar. 7		e	17	35	40								Very small.
			eL	17	43									
			F	17	55									
745	Mar. 9		eL	13	07									Trace of surface waves.
746	Mar. 11	Ir	P	11	24	08					(3,	17)	1900	Data from Wiechert.
			eS	11	27	25								SE off Okinawa Island.
			L	11	28	53								
			M	11	29	38				11	11			
			F	12	05									
747	Mar. 11		e?	19	51	39								Small. ,,
			eL	19	54	13					12			
			F	20	12									
748	Mar. 13		e	3	26.5									Time correction uncertain.
749	Mar. 13	Ou	iP	18	46	12					(7,	23)	5680	
			S	18	53	35								
			eL	19	03									
			F	19	10									
750	Mar. 14		e	9	21	32								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													Trace.
751	Mar. 14	O	e	14	00	03								
			eL	14	23.5									
752	Mar. 14		e	15	55	42								
			M	16	18	07								
753	Mar. 14		e	23	43	37								Initial masked by micro.
			i_N	23	44	04								
			F	23	50									
754	Mar. 15		e	0	22	43								Very small.
755	Mar. 16		e	7	03	02								Trace only
756	Mar. 17		e	20	05	50								Weak beginning.
			e	20	08	41								
			eL_E	20	09	52								
			M	20	10	45			12	10				
			F	20	23									
757	Mar. 20	Iu	P	23	06	54					(7,	29)	5790	
			iS	23	14	23								
			M	23	24	45			16					
			F	23	30									
758	Mar. 21	Ir	iP_E	0	09	40					(4,	26)	2755	
			PP	0	10	14								
			eS	0	14	06								
			iS	0	14	26								
			F	0	35									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
759	Mar. 24	Ov	e	14	29	33								
			e	14	31	29								
			eL	14	32	22								
			F	15	03									
760	Mar. 24		e	17	55	±								Trace only.
761	Mar. 25		eP	0	19	59								
			e_N	0	21	40								
			eL	0	23	02								
			M_N	0	24	36				7				
			F	0	37									
762	Mar. 26	Ov	iP	0	08	53				(1,	26)	840		Taihoku: 24.3°N, 121.8°E.
			S	0	10	19								Felt at Karenko and Taihoku.
			e(L)	0	10	55								
			i	0	11	27								
			F	0	20									
763	Mar. 27	Ov	eP	19	21	06				(1,	42)	(1000)		Micro strong.
			e(S)	19	22	48								
			i	19	23	31								
			F	19	36									
764	Mar. 28	IIr	iP	23	50	59				(2,	29	1390		SE off Vladivostok, Deep
			iS	23	53	28								
			i_E	23	53	32								
			i_E	23	55	24								A solitary wave.
	Mar. 29		$i_{E,N}$	0	01	48								
			F	0	40									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
765	Mar. 29	Ou	i_N	12	40	33					(6,	59)	5250	In region of 40°S, 175°W. (Manila)
			iS_N	12	47	32								
			L?	13	07									
766	Mar. 30		$i_{N,E}$	20	52	35								Trace only.
767	Mar. 30	IIr	P	21	24	03					(3,	48)	2280	Hukusima Prefecture, Japan.
			iS	21	27	51								
			L_{1N}	21	29	23								
			L_{2N}	21	30	09								
			M_Z	21	32	42						16		
			F	22	45									

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Meteorologiska Institutionen
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符號凡例

1. 地震之性質

I. 可辨別　II. 稍强　III. 强

d. 局部地震　(震源在一百粁以內)

v. 近地地震　(震源在一千粁以內)

r. 遠地地震　(震源在五千粁以內)

u. 極遠地震　(震源在五千粁之外)

2. 震波圖之相位

P　縱波　(或初期微動之第一前走波)

PR_1, PP　縱波對於地球表面經一次反射之波

PR_2, PPP　縱波對於地球表面經二次反射之波

S　橫波　(或初期微動之第二前走波)

SR_1, SS　橫波對於地球表面經一次反射之波

SR_2, SSS　橫波對於地球表面經二次反射之波

PS, SP　變轉波卽縱波(橫波)對於地球表面反射時所變轉之橫波(縱波)

L　主要動之地面波

M_1. M_2,...　地面波之極大動

C　終期尾動

F　能認別之最終動

3. 運動之種類等

i　相位之明顯者

e　相位之不明顯者

?　相位之可疑者

T　週期(以秒爲單位)

A　實際上地面震動之半震幅(以μ,千分之一粍，爲單位)

△　震央距離(以粁爲單位)

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Symbols and Notations

1. Character of the Earthquake—

I. Perceptible. II. Moderately strong. III. Strong.

d (terrae motus domesticus)	Local shock	(origin less than 100 km. distant).
v (terrae motus vicinus)	Near shock	(origin from 100 to 1,000 km. distant).
r (terrae motus remotus)	Distant shock	(origin from 1,000 to 5,000 km. distant).
u (terrae motus ultimus)	Very distant shock or teleseism	(origin more than 5,000 km. distant).

2. Phases of the Seismogram—

P (undae primae)	Normal first phase, or first preliminary tremors longitudinal).
P'	First preliminary tremors which have penetrated the core of the earth.
PRn	Waves n times reflected at the earth's surface.
S (undae secundae)	Second phase, or second preliminary tremors (transverse).
SRn	Waves n times reflected at the earth's surface.
PS, SP	Waves changed from longitudinal to transverse oscillation or vice versa through reflection at the earth's surface.
PPS	Waves twice reflected at the earth's surface, having been longitudinal on two branches of the path and transverse on one branch.

In general, a bar over two letters denoting types of waves indicates refraction. The subscript c denotes the boundary at about 2900 km. depth between the metallic core and the middle shell which surrounds it. Thus;

$\overline{ScPcS}$	Waves which have penetrated the core, having been tranverse before entering and after leaving the core, and longitudinal within the core.
$\overline{PcPcPcP}$	Waves refracted at the core boundary into the core, reflected once at this boundary while within the core and again refracted out of the core, having remained longitudinal on all branches of the path.

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L (undae longae)	Long waves of surfaee phase preceding M.
M (undae maximae)	Shorter and more regular waves of large amplitude in the surface phase.
W_2, W_3, W_4...	The maximum waves coming again to the station after circumscribing the earth once, twice, etc.
C (coda)	Tail or end portion.
F (finis)	End of discernible movement.

3. Nature of the motion

i (impetus)	Sudden beginning of the motion.
e (emersio)	Gradual beginning of the motion.
?	Questionable or uncertain.
m	Maximum wave in any phase.

4. Time—

All determinations are reduced to Greenwich mean time. The contact clock which gives the time mark is daily corrected by radio with the time signal from Zi-ka-wei Observatory.

Constants of the Seismographs

1. Mechanical Registration.

Apparatus	Component	V	T_o	$\in$	r
Wiechert 17,000 kg.	N	1790	1.48	1.5	0.50
	E	1330	1.50	1.1	0.30
Wiechert 1,300 kg.	Z	154	4.02	3.0	0.88

2. Galvanometric Photographic Registration.

Constants of Galitzin-Wilip.

Component	Galvanometer Free Period T_1	Pendulum Free Period T	Damping Constant μ^2	Transmision Factor k	Synchronous Magnification $\frac{kAT}{4\pi I}$
N-S	11.02	10.31	+ 0.27	182	1690
E-W	10.84	10.39	+ 0.26	182	1730

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∅ = 32°03′11″N λ = 118°46′55″E h = 60m. Underground: Conglomerate.

No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
768	1935 Apr. 9		P	8	22	33								All recording except vertical suspended during Apr. 1–5, owing to varnishing the instruments room.
			e	8	27.	2								
769	Apr. 9		e	20	27.	3								
770	Apr. 9		e	23	07	17								
			eL	23	14	33								
			F	23	41									
771	Apr. 11		e	1	08	28								
			m	1	10	36								
			m	1	11	48								F followed by next,
772	Apr. 11	IIr	eP	1	23	55					(4, 45)		3020	
			iS_E	1	28	40								
			iL	1	32	48								
			M_1	1	35	56								
			M_{2N}	1	37	14								
			F	2	40									
773	Apr. 11		e	4	35	18							2400	Very small.
			eS	4	39	16								
			F	4	50									
774	Apr. 11	Or	P	15	29	18					(3, 43)		2220	Small
			S	15	33	01								
			F	15	45									
775	Apr. 11	IIu	iP	23	24	07					(7, 34)		5890	Down. Destructive at Mezanderan, Persia.
			e	23	28	27								J.S.A. gives 37.2°N, 53.5°E

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No. 4

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	Δ	Remark
	193 Apr. 11 (Cont'd.)	IIu	iS_E	23	31	41								
			SR_1	23	33	42								
			SR_2	23	35	49								
			eL_E	23	39	25								
			M_1	23	49	34				15	14	13		
			M_2	23	51	19					11	11		
			M_3	23	52	11				12	12			
	Apr. 12		F	2	00									
776	Apr. 12	Ou	eP	13	01	29								Small.
			e_E	13	08	42								
			eL_N	13	14.5									
			M_N	13	16.7									
			F	13	50									
777	Apr. 12		iP_N	22	48	46								
			e(L)	23	01	45								
			F	23	30									
778	Apr. 13		e	13	58	30								Trace only.
779	Apr. 14	Ov	eP_E	7	46	33								
			e(S)	7	47	36								
			e_N	7	48	06								
			F	7	52									
780	Apr. 15	Ir	P	11	18	36							(2, 49) 1600	Gifu Prefecure, Japan.
			S_E	11	21	25								
			L?	11	24	—								
			F	11	50									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
781	1935 Apr. 16		e(S)	20	44	59								
			eL	20	49.	2								
			F	21	15									
782	Apr. 18		e(P)	15	05	42								Very Small,
			e	15	10	±								
			eL	15	14	04								
			F	15	27									
783	Apr. 18	or	P	21	52	47							(523) 3610	Small.
			S	21	58	10								
			eL	22	01	42								
			F	22	15									
784	Apr. 19	IIu	$P_{E,Z}$	15	35	57							(1014) 9065	
			PR_1	15	38	37								East Mediterranean Sea.
			S	15	46	11								UGEGI gives 32,5°N, 16°E
			SR_1	15	50	38								JSA gives 33°N, 15°E.
			eSR_{2n}	15	54	26								Felt in Malta, South of Italy.
			SR_{2E}	15	53	47								
			L_N	16	03	10								
			M_1	16	10	44			30					
			e_Z	16	12	38								Rather long period.
			M_2	16	15	56								
			M	15	21	00			20	19	18			
			F	18	00									
785	Apr. 20	Iu	P_E	5	23	25							(1019) 9180	After shock of No. 784
			eS_N	5	33	44								UGEGI gives 32°N, 16,5°E
			F	6	50									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
786	Apr. 20	Ou	P_E	9	47	18					(9,	52)	8560	
			P_N	9	47	21								
			S_N	9	57	10								
			F	10	35									
787	Apr. 20		e(P)	11	12	52					(3,	16)	1890	
			eS	11	16	08								
			L_N	11	18	23								
			i_N	11	19	48								
			F	12	30									
788	Apr. 20		e	17	01	20								Very Small.
789	Apr. 20	IIIv	iP	22	03	51					(1	41)	990	Disastrous Formosa Earthquake.
			S_Z	22	05	30								G-W. out of limit and faint after S. Up.
			$S_{N,E}$	22	05	32								
			L_Z	22	05	51								
			I_N	22	05	55								
			L_E	22	05	59								Horizontal Wiechert out in the M
			M_Z	—	--			250			3			phase. Mzca.250u.
790	Apr. 20	IIv	$P_{N,Z}$	22	28	19							990	Superposed on the coda of last.
			$e(S)_N$	22	29	43								Severe after shock of No. 789
			iI_Z	22	30	19								
			M_{1Z}	22	30	42		198			3			
			M_{2Z}	22	32	00		161			5			
			M_{3Z}	22	32	43		128			3+			
			F	23	—									Continued by intermittent A.F.
791-805	Apr. 20-21													Fifteen small after shocks.

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
806	1935 Apr. 21	IIr	iP	7	33	10					(4,	14)	2600	
			iS	7	38	56								
			L	7	43	59								
			M_1	7	51	16				14				
			M_2	7	53	32				12				
			F	9	±									
807	Apr. 21	IIv	P	19	15	18					(1,	25)	830	A.F. of No. 789. P and S are rather small in comparing with L and M. This fact seems to be a characteristic of Formosa earthquakes.
			S	19	16	53								
			i_N	19	17	15								
			iL	19	17	29								
							mm.							Trace amplitude in mm.
			M_1	19	18	30	51							
							mm.							
			M_2	19	19	±	52							
			F	20	05									
808	Apr. 22	Iv	eP	5	06	40					(1,	22)	800	Formosa.
			eS	5	08	18								
			L	5	08	42								
809	Apr. 23	IIr	iP	16	50	37					(4,	06)	2500	Deep focus. Up.
			iPP	16	51	15								
			S	16	54	43								
			i	16	54	51								
			L	16	58	31								
			F	17	58									
810	Apr. 24	Iu	P	16	01	25					(7,	25)	5715	
			iS	16	08	50								
			m	16	12	29								
			iL_N	16	19.	1								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935		M_{1N}	16	23	18				18				
			M_{1E}	16	24	34					18			
			M_{2N}	16	25	06				17				
			F	17	20									
811	Apr. 24		eL_E	18	02	47								
			M_N	18	04	18								
812	Apr. 25		e	5	19	10								A. F. of No. 789.
			F	5	32									
813	Apr. 28		e	13	54	41								
			eL	13	57•	0								
			M	13	58	50								
			F	14	15									
814	Apr. 28		eP	14	40	00							(024)	242 Small local shock.
			eS	14	40	24								
			F	14	41•	5								
815	Apr. 29		e	3	57	±								Small.
816	Apr. 30	Or	iP	11	46	31							(549)	4020
			eS	11	52	20								
			F	12	30									
~~718~~ 817	May 1	Iu	eP	10	34	44							(819)	6665 UGEGI: 38°N, 43°E Caucasus.
			S	10	43	03								
			eSR_2	10	50	13								
			e	10	53	06								

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935		eL_N	10	55.	4								
			eL_E	10	57	46								
			M_1	11	03	24	9	4		16	16			
			M_{2N}	11	07	23				12				
			F	12	12									
818	May 1		e(S)	14	11	41								Formosa A. F. type.
			F	14	25									
819	May 3		e	23	49	24								Very small.
			e	23	51	52								
			F	0	10									
820	May 4	IIv	P	23	04	21					(141)		990	Strong A. F. of No. 789.
			S	23	06	02								Southern part of Sintikusyu, Formosa.
			L	23	06	29								Data from Wiechert.
			M_{1N}	23	11	10	36			8				GE electric bulb burns out.
			M_{2N}	23	11	40	29			8				
			F	23	58									
821	May 5	Or	P	18	19	00							2620	
			S	18	23	16								
			F	19	05									
822	May 6	Iv	P	17	42	30					(148)		1060	
			S	17	44	18								
			i_N	17	44	49								
			L	17	44	58								
			M_N	17	45	50				9				
			F	18	20									

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No. 4

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$\varnothing$ = 32°03'11"N λ = 118°46'55"E h = 60m. Underground: Conglomerate.

No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
823	1935 May 7		eL	3	30.	2								Trace.
			M	3	33	55				17				
824	May 7	Ir	iP_N	6	01	09					(4,	45)	3020	8°N, 130,5° E east off Mindano by Nk, Chiu, Hk. (Hongkong)
			iS	6	05	54								
			i_N	6	07	00								
			L_E	6	09	37								
			M_N	6	14	43	14			20				
			F	7	35									
825	May 7	Or	iP_E	16	47	36								
			eS?	16	50	08								
			F	17	03									
826	May 9	Ir	eP	4	46	41?					(3	24)	1980	Time correction uncertain. Light power on G–W was broken.
			S_N	4	50	05								
			L_E	4	52	40								
827	May 9		i	9	20	03								No other phases distinguishable.
828	May 10	Ir	eP_E	17	09	18					(3	48)	2280	20°N, 89°E between Burma & Siam by Nk, Chiu, Mla.
			iS	17	13	06								
			i	17	14	38								
			i	17	15	08								Followed by a group of short period waves.
			iL	17	15	40								
			M_E	17	16	32		10			8			
			M_N	17	17	10	15			8				
			F	18	03									

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
829	1935 May 11		e	23	54.	5								Elec. power lines blown broken by gales.
830	May 12	Iu	eP?	19	54	40					(7,	32)	5845	
			iS	20	02	12								
			e	20	05	43								
			L?	20	10	00								
			M_1	20	12	02				22				
			M_2	20	14	02				18				
			M_3	20	15	30				18				
			F	21	00									
831	May 13	IIIr	iP	19	58	49?					(2,	48)	1590	Time uncertain.
			iS	20	01	37								20°N, 101°E between Yunnan and Burma by Nk, Chiu, Hk.
			e	20	03	56								
			i	20	04	51								
			M	20	05	53	mm. 119	mm. 106				5		Trace amplitude in mm. Light faint.
			F	21	30									
832	May 14	IIu	iP	23	42	59					(10,	00)	8740	Down. South Atlantic, north of Sandwich Islands.
			ePP	23	47	02								
			iS	23	52	59								JSA:58°S,25°W.
			eSR_1	23	56	16								
			iSR_2	23	58	47								
	May 15		iG	0	05	00								
			L_E	0	10	21								F continued by next.
833	May 15	Iu	e_E	2	10	07					(6,	36)	4845	Baluchistan, region of Quetta.
			iS_N	2	16	43								
			iSS_N	2	20	08								
			eL_E	2	24	12								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935		M_N	2	27	28								
			M_{1E}	2	28	25					12			
			M_{2E}	2	31	22					11			
			M_3	2	32	29				9	10			
			F	3	—									
834	May 16	Or	e_E	17	32	05					(6,	15)	4455	
			iS_E	17	38	20								
			e_N	17	41	58								
			M_1	17	52	30				12	14			
			M_{2N}	17	53	01				11				
			M_{2E}	17	54	02					11			
			F	18	30									
835	May 16	Ou	e_N	21	03	17								Very distant quake.
			iP'	21	04	24								
			eL	21	45.	5								
			F	23	15									
836	May 17		e	19	55	11								Very small.
837	May 18		eL	17	59	—								Trace.
838	May 18		e_E	21	42	16					(10,	01)	8760	
			iS	21	52	17								
			eL	22	03	+								
839	May 20	Ir	P	5	27	37					(4,	43)	3000	Disturbed by time marks.
			S	5	32	20								
			F	6	50									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
840	1935 May 20	Iv	P	8	30	36								Formosa type.
			L	8	32	43								
			F	8	45									
841	May 21		eP	1	02	41						(1,52)	1110	Small.
			S	1	04	33								
			F	1	20									
842	May 21	Ir	iP_E	4	27	53						(4,20)	2680	32.5°N, 92.8°E Tibet by Nk, Chiu, Hg. Focus deeper than normal.
			iS_E	4	32	13								
			i_E	4	32	48								
			eL_N	4	35	41								
			M_N	4	37	25				12				
			F	5	00									
843	May 21	Iu	iP	7	00	00						(6,42)	4955	New Guinea.
			iS_E	7	06	42								
			iS_N	7	06	45								
			SS	7	10	20								
			eL	7	12	02								
			M_N	7	17	08				22				
			F	8	40									
844	May 21	Ou	P	13	14	27						(6,44)	4990	A. F. of No. 843?
			iS	13	21	11								
			i_E	13	21	40								
			e_E	13	24	45								
			eL	13	31	4								
			F	14	30									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
845	May 21		e_N	15	31	45				(3,	34)	2100		Small.
			eS_E	15	35	19								
			S_N	15	36	29								
			F	16	00									
846	May 21		e?	20	32	58				(0,	23)	235		Very small local shock.
			S	20	33	21								
			F	20	35									
847	May 23	Or	P_E	2	14	25				(4,	00)	2420		
			S	2	18	25								
			eL	2	20	50								
848	May 23		e	6	12	—								Very small.
849	May 23		e	18	26	04								Trace only
			eL	19	03									
850	May 24	IIIr	iP	5	41	14				(4,	04)	2480		Philippine Islands. Felt in visayas. JSA: 12.8°N, 125°E
			i(PP)	5	41	22								
			e	5	42	10								
			i_N	5	44	01				9				Increase of period.
			e_N	5	44	50								
			iS_N	5	45	18								
			G	5	44	34								
			L_N	5	47	06								
														M phases very large and some out of limit.
851	May 24		M_1	8	46	±								A. F. of No. 850.
			M_2	8	54	±								
			F	10	20									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
852	1935 May 24		M	15	29.	2				14				
853	May 24	Or	P	22	35	27					(4,	04)	2480	
			eS	22	39	31								
			eL	22	42•	2								
			F	23	15									
854	May 25	IIr	iP	0	12	40					(3,	53)	2345	A. F. of No. 850 P. I. Quake.
			iS	0	16	33								
			iL	0	19	06								
			M_1	0	20	15	13			14				
			M_2	0	28	52	7			10	12			
			F	2	15									
855	May 25	Ir	eP	8	37	54					(3,	50)	2300	Ditto. A. F. of No. 850.
			eS_E	8	41	44								
			iL_E	8	44	28								
			M_E	8	45	10					12			
			M_N	8	48	35				12				
			F	10	20									
856	May 25	I_V	P*	10	38	30					(0,	20)	200	Local shock.
			$\overline{P}$	10	38	31.5								
			S_N^*	10	38	50								
			$\overline{S}_N$	10	38	51.5								
			F	10	41									
857	May 25	Ir	P_N	21	33	44					(3,	56)	2380	
			S	21	37	40								
			L	21	40	12								

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No.	Date	Char-acter	Phase	G. M. T.			Amplitude			Period			△	Remark
				h.	m.	s.	A_N	A_E	A_Z	T_N	T_E	T_Z		
	1935													
858	May 26	IIr	iP	22	08	35					(3,	54)	2355	Epc. Philippine. Z in minute gap.
			iS_E	22	12	29								
			iL	22	15	00								
			M_1	22	16	03	15	32		12	11			
			M_2	22	17	43	20			11				
	May 27		F	0	30									
859	May 27		iS	3	34	56								
			e	3	40	15								
			M	4	06	42					12			
			F	5	02									
860	May 27		e_E	5	40	50								
			e_N	5	44	11								
861	May 28	Ir	eP	14	20	53					(3,	56)	2380	P. I. ?
			S	14	24	49								
			L	14	26	38								
			M_1	14	28	31				13	12			
			M_{2E}	14	31	43								
			F	15	32									
862	May 28		e	16	46	±								P. I. ?
			eL	16	49	16								Continued by next.
863	May 28		eL	17	15	1								
			e	17	17	16								
			M	17	20	34				16	16			
			F	18	00									

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
864	1935 May 29	IIIr	eP_N	19	44	43					(1,	58)	1170	Destructive in Formosa Slight damage at Taityusyu.
			e_E	19	44	47								
			iS	19	46	41								
			i_E	19	47	05								
			M_E	19	47	30		26			6			
			M_N	19	48	20	46			7				Continued by next.
865	May 29	Or	$i(S)_N$	20	07	14								A. F. of No. 364.
			iL_E	20	07	30								
			i_N	20	08	18								
			M	20	08	38				8	6			
			F	20	40									
866	May 30		P	9	01	57					(0,	21)	210	Small local shock.
			S	9	02	18								
			F	9	03									
867	May 30		P	10	48	34					(0,	23)	235	Ditto.
			S	10	48	57								
			F	10	50									
868	May 30		e_E	19	17	32								Small.
			$e(L)_N$	19	18	33								
869	May 30	IIIu	iP	21	41	07					(6,	42)	4955	Disastrous at Quetta, Baluchistan. Azi. WSW by W. Condensation. USCGS:29°N.66°E.
			$i_{E,Z}$	21	41	26								
			$P_C P_E$	21	42	28								
			iPR_1	21	42	37								
			iPR_2	21	43	15								
			PR_3	21	43	46								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
			P_cS	21	46	12								
			S	21	47	49								
			i_N	21	48	07								
			SR_1	21	50	25								
			SR_2	21	51	46								Rather long period on Z ca 15–20s.
			iL_Z	21	54	17								
			i_Z	21	56	47								
			S_cS	21	57	51								
			M_{1N}	21	58	24	1100			18				Data from wiechert-
			M_{2N}	22	03	29	735			14				
			M_Z	22	04	05			204			18		
			M_E	22	04	16		2060			18			
	May 31		F	2	±									
870	May 31	Ou	P	2	11	54					(6, 35)		4835	A. F. of No. 869 Baluchistan quake.
			iS_N	2	18	29								
			SR_1	2	22	01								
			eL	2	27.	8								
			M_N	2	29	40				19				Changing papers.
871	May 31		$\overline{P}$	8	03	47					(0, 24)		242	
			$\overline{S}$	8	04	11								
872	May 31	IIr	iP	8	21	37	20	13	11	4	4	3	1400	Down. Abnormal focus.
			iS_N	8	24	03					(2, 26)			Middle part of Japan Sea.
			i	8	24	26								Felt abnormally in some parts of Japan.
			L	8	36	00								
			F	9	34									
873	May 31		M	13	51	10								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
874	May 31	Or	e	17	27	04								
			iL?	17	37.	1								
875	Jun. 1		e	4	22.	2								
			e	4	52.	7								
			e	4	55	06								Beginning of M.
			F	5	25									
876	Jun. 1	Ir	iP	14	45	14							(4, 32) 2845	Felt at Davao (III), P. I.
			iS	14	49	46								
			i	14	50	18								
			L	14	53	34								
			F	15	50									
877	Jun. 1		M	17	08	30				12				
878	Jun. 2	Ilu	iP	9	24	43							(6, 34) 4810	Up. Baluchistan.
			iS	9	31	17								UGEOI: 30.5°N, 66.5°E.
			eSR_1	9	34	41								
			L	9	39	41								
			M_1	9	42	07	58			20				
			M_2	9	45	02				13				
			M_3	9	46	16				12				
879	Jun. 2		e	10	37	52								
880	Jun. 2	Or	eP	16	58	09							(2, 13) 1210	Epc. Formosa.
			eS	17	00	22								
			M	17	01	49				8				
			F	17	20									

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
881	1935 Jun. 7	Iv	S?	2	54	24								P phases wasdis turbed on Hori. Wie. Felt slightly at Taihoku.
			L	2	54	54								
			M_{1E}	2	56	06		16		7	7			
			M_2	2	56	44	15	17		7	6			
			F	3	33									
882	Jun. 8		eL	23	06	~~06~~								Trace only.
883	Jun. 9		eL	1	37	1								
884	Jun. 9	Ir	iP_N	6	38	44					(3, 52)		2320	South China Sea
			eS	6	42	36								
			eL	6	45	18								
			M_1	6	46	28		3			12			
			M_2	6	50	06	4	4		10	12			
			F	8	00									
885	Jun. 9		eP_E	11	58	18								No other phases distinguishable.
886	Jun. 9		e	23	55	40								Initials very weak.
			M	23	58	26					6			
887	Jun. 10	Ir	iP_E	6	56	06					(3, 44)		2235	
			e(PP)	6	56	21								
			S_N	6	59	50								
			L?	7	03	16								
888	Jun. 14	Ir	P_E	21	13	41					(3, 42)		2200	
			S_N	21	17	23								
			L	21	19	49								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
889	Jun. 16	Ou	eP_N	6	27	01					(6, 48)		5060	South Pacific.
			S_N	6	33	49								
			SR_1	6	37	21								
			SR_2	6	38	49								
			L	6	40.	7								
			F	7	10									
890	Jun. 17		eP	17	00	53								Very small.
			e	17	02	22								Felt slightly at Taihoku.
			e	17	03	+								
891	Jun. 18	Iv	eP	7	11	37					(1, 26)		(840)	Felt at Taiho-ku.
			e(S)	7	13	03								
			L	7	13	56								
			F	7	32									
892	Jun. 18		$\overline{P}$	11	25	03					(0, 25)		250	Local shock.
			$\overline{S}$	11	25	28								
893	Jun. 18		e(S)	16	56	40								
			M	17	01	56								
894	Jun. 18	IIr	P	22	32	24					(3, 38)		2155	Felt at Borongan and Legaspi.
			i_N	22	33	55								P I. with intensity III.
			iS_N	22	36	02								
			iS_E	22	36	11								
			i	22	36	23								
			L	22	38	16								
			M_1	22	39	36	11	17		12	12			
			M_{2N}	22	42	08	14			10				

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
895	1935 Jun• 19		e	8	13	28								Very small.
896	Jun• 19	Ou	e_N	22	24	54					(7,	55)	6250	
			$iS_{N,E}$	22	32	49								
			eL_N	22	44.	1								
			M	22	47	46				20				
			F	23	54									
897	Jun• 22	Ir	P_N	15	55	54					(5,	50)	4040	
			iS	16	01	44								
			iSS_E	16	04	43								
			L_N	16	07	25								
			eL_E	16	07	55								
			M_N	16	16	53	8			16				
			M_E	16	17	00		3			13			
			F	17	11									
898	Jun• 24		$\overline{P}$	15	15	32					(0,	20)	200	Small shock.
			$\overline{S}$	15	15	52								
899	Jun• 24	IIu	iP	23	33	02					(8,	39)	7030	Up. New Hebrides.
			i_Z	23	33	35								Wellington gives 18°S, 165°E.
			i_Z	23	33	52								Deep focus type.
			iS	23	41	41								JSA: 168.5°E, 19°S; h=140km.
			isS	23	42	42								
			L	23	46•	2								
	Jun• 25		F	2	40									G–W lost owing to changing clock springs.
900	Jun• 25		$\overline{P}$	7	04	46					(0,	24)	242	Small shock.
			$\overline{iS}$	7	05	10								

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$\varnothing$ =32°03'11"N λ=118°46'55"E h=60m. Underground: Conglomerate.

No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	Δ	Remark
901	1935 Jun. 25	IIr	eP	12	39	30					(4,	41)	2965	Kurile Islands 41°N, 151°E.
			ePP	12	40	15								by Nk, Chiu, Mls.
			S	12	44	11								SE off Etoroku.
			$iL_{N,E}$	12	47	22								
			M_{1N}	12	49	22	31			16				
			M_{1E}	12	51	06		20			14			
			M_{2N}	12	51	44	36			15				
			M_{2E}	12	52	09		16			13			
			F	14	50									
902	Jun. 26		P_E	6	50	04								Very weak beginning.
			M	6	57.	3								
903	Jun. 27		e	18	42	±								Trace only.
904	Jun. 27		eL	21	15	05								
905	Jun. 28		e	2	25	35								A teleseism.
			e	2	32	59								
			eL	3	24.	8								
906	Jun. 28	Ir	iP_E	19	02	06					(3,	31)	2065	Japan, Southern off Katuura.
			PP	19	02	45								Entirely confined on N–S comp.
			S_N	19	05	37								
			i_N	19	05	59								
			L	19	07	17								
			F	19	40									
907	Jun. 29	Iu	PR_{1N}	7	08	39							104°	On the coast west of Mexico.
			PR_{2N}	7	10	51								JSA: 188.2°N, 103.3°W
														H=6h48m53s

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935	Iu	S_cP_cS	7	15	39								
			iPS	7	18	21								
			eSR_1	7	23	45								
			SR_2	7	28	15								
			L	7	44	11								
			M?	7	52	15				22				
			M_2	8	10	31				17				
			F	9	30									
908	Jun• 30		eP	8	24	10								Small.
			eL	8	35	34								
			F	8	53									
909	Jun• 30		S	18	13	00								
			L?	18	14	01								
			F	18	35									

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國立中央研究院氣象研究所

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符號凡例

1. 地震之性質

1. 可辨別　　11. 稍强　　111. 强

d. 局部地震　（震源在一百粁以內）

v. 近地地震　（震源在一千粁以內）

r. 遠地地震　（震源在五千粁以內）

u. 極遠地震　（震源在五千粁之外）

2. 震波圖之相位

P　縱波　（或初期微動之第一前走波）

PR_1. PP　縱波對於地球表面經一次反射之波

PP_2. PPP　縱波對於地球表面經二次反射之波

S　橫波　（或初期微動之第二前走波）

SR_1. SS　橫波對於地球表面經一次反射之波

SR_2. SSS　橫波對於地球表面經二次反射之波

PS, SP　變轉波卽縱波(橫波)對於地球表面反射時所變轉之橫波(縱波)

L　主要動之地面波

M_1. M_2.…地面波之極大動

C　終期尾動

F　能認別之最終動

3. 運動之種類等

i　相位之明顯者

e　相位之不明顯者

?　相位之可疑者

T　週期(以秒爲單位)

A　實際上地面震動之半震幅(以㍉千分之一粍，爲單位)

△　震央距離(以粁爲單位)

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Symbols and Notations

1. Character of the Earthquake—

I. Perceptible. II. Moderately strong. III. Strong.

d (terrae motus domesticus) Local shock (origin less than 100 km. distant).

v (terrae motus vicinus) Near shock (origin from 100 to 1,000 km. distant).

r (terrae motus remotus) Distant shock (origin from 1,000 to 5,000 km. distant).

u (terrae motus ultimus) Very distant shock or teleseism (origin more than 5,000 km. distant).

2. Phases of the Seismogram—

P (undae primae) Normal first phase, or first preliminary tremors (longitudinal).

P' First preliminary tremors which have penetrated the core of the earth.

PRn Waves n times reflected at the earth's surface.

S (undae secundae) Second phase, or second preliminary tremors (transverse).

SRn Waves n times reflected at the earth's surface.

PS, SP Waves changed from longitudinal to transverse oscillation or vice versa through reflection at the earth's surface.

PPS Waves twice reflected at the earth's surface, having been longitudinal on two branches of the path and transverse on one branch.

In general, a bar over two letters denoting types of waves indicates refraction. The subscript c denotes the boundary at about 2900 km. depth between the metallic core and the middle shell which surrounds it. Thus;

$\overline{ScPcS}$ Waves which have penetrated the core, having been tranverse before entering and after leaving the core, and longitudical within the core.

$\overline{PcPcPcP}$ Waves refracted at the core boundary into the core, reflected once at this boundary while within the core and again refracted out of the core, having remained longitudinal on all branches of the path.

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L (undae longae)	Long waves of surface phase preceding M.
M (undae maximae)	Shorter and more regular waves of large amplitude in the surface phase.
W_2, W_3, W_4.....	The maximum waves coming again to the station after circumscribing the earth once, twice, etc.
C (coda)	Tail or end portion.
F (finis)	End of discernile movemement.

3. Nature of the motion

i (impetus)	Sudden beginning of the motion.
e (emersio)	Gradual beginning of the motion.
?	Questionable or uncertain.
m	Maximum wave in any phase.

4. Time—

All determinations are reduced to Greenwich mean time. The contact clock which gives the time mark is daily corrected by radio with the time signal from Zi-ka-wei Observatory.

Constants of the Seismographs

1. Mechanical Registration.

Apparatus	Component	V	T_o	$\in$	r
Wiechert 17,000 kg.	N	1790	1.48	1.5	0.50
	E	1330	1.50	1.1	0.30
Wiechert 1,300 kg.	Z	154	4.02	3.0	0.88

2. Galvanometric Photographic Registration.

Constants of Galitzin-Wilip.

Component	Galvanometer Free Period T_1	Pendulum Free Period T	Damping Constant $\frac{2}{u}$	Transmision Factor k	Synchronous Magnification $\frac{kAT}{4\pi I}$
N–S	11.02	10.31	+ 0.27	182	1690
E-W	10.84	10.39	+ 0.26	182	1730

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
910	1935 Jul. 2		eL_N	15	57									
911	Jul. 3	Or	eP?	16	36	18					(3,	56)	2380?	
			eS	16	40	14								
			L	16	43	10								
			F	17	05									
912	Jul. 3		e	20	18	22								Very weak initials.
			$L_{N,E}$	20	20	26								Small.
			i_E	20	20	20								
913	Jul. 3		S	22	00	50								
			e(L)	22	05.	4								
			F	22	40									
914	Jul. 5	Or	iP_E	9	14	30								Japan.
			$e(S)_E$	9	17	12								
			$e(S)_N$	9	17	24								
			m	9	19	±				8				
915	Jul. 5	IIu	P_E	18	00	50					(6,	19)	6530	UG eGI: 39°N, 67.5°E
			iS	18	07	09								Turkeston.
			iSR_2	18	10	24				12				
			iL?	18	12	35								
			e	18	16	22								
			M_{IN}	18	19	14	18			14				
			M_{2N}	18	20	34	21			16				
			M_{3N}	18	22	08	12			12				
			M_E	18	21	28					14	14		
			F	19	45									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
916	1935 Jul. 7	IIr	iP_N	13	26	22					(3,	17)	1900	Felt in NW part of Luzon.
			e_N	13	27	35								Manila: 18°20'N, 126°10'E.
			iS_N	13	29	39								
			L_E	13	30	45								
			L_N	13	31	00								
			M_1	13	32	11	53			14		14		
			M_2	13	34	00	43			10				
			M_3	13	35	35	59			11		11		
			F	15	00									
917	Jul. 8		eL	3	50									South China Sea.
918	Jul. 8		eL	16	03	20								Trace only. „
919	Jul. 9	Or	e(S)	0	56	15								Initials masked by micro.
			eL	0	58.	3								
			M	0	59	28				11				South Chine Sea.
			F	0	28									
920	Jul. 9	Ir	$e(P)_N$	2	15	38					(3,	30)	2055	Similar to No. 919.
			S_N	2	19	08								
			eL_N	2	21.	0								South China Sea.
			M_1	2	22	36				11				
			M_2	2	23	10				10				Papers being changed.
921	Jul. 9	Or	e	4	48	14					(2,	12)	1200	
			eS	4	50	26								
			eL	4	52.	0								
			M_1	4	53	42				11				
			M_2	4	59	12								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935													
922	Jul. 9	Ir	eP_N	12	54	18					(3,	01)	1720	Similar to No. 920.
			$e(S)_N$	12	57	19								South China Sea.
			L_N	12	59	06								
			M_1	13	02	44	14			11				
			M_2	13	05	38	07			9				
			F	14	30									
923	Jul. 9	Ir	eP	17	59	23								
			iL	18	04	33								
			i	18	06	09				12				Beginning of M, which lasts about three minutes.
			F	18	40									
924	Jul. 9	Or	e_N	21	15	39					(5,	14)	3465	
			S_N	21	20	53								
925	Jul. 10		e_N	20	46	06								
			M_N	20	03	ca.								
926	Jul. 11	IIr	iP	8	28	48					(3,	12)	1845	Up. Damage at Shimidzu and Shizuoka, Japan.
			S_N	8	32	00								Japan CMO: 34°59'N; 138°26,E.
			iSR	8	32	32								
			L_N	8	33	19								
			eL_E	8	33	40								
			M_{1N}	8	34	30	15			7				
			M_E	8	35	28		9			6			
			M_{2N}	8	37	22	28			12				
			F	9	50									
927	Jul. 11	O	e	13	20.	2								
			S	13	29	40								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		eL	13	47.	4								
			F	14	15									
928	Jul. 11	Or	iP	23	10	13				(5,	12)			Probably deep focus.
			pP	23	11	58								
			iS	23	15	25								
			sS	23	18	41								
			F	23	43									
929	Jul. 12	Iu	P	1	46	37				(7,	11)	(5470)		Records lost on G–W.
			e(S)	1	53	48								May be L phase.
			F	2	50									
930	Jul. 12	Or	eP	3	44	11				(4,	51)	3110		
			e	3	45	47								
			S	3	49	02								
931	Jul. 12	Ir	P_N	20	47	34				(5,	12)	3440		
			e(S)	20	52	18								
			S_N	20	52	46								May be earlier.
			iL_N	20	54	28								
			M	21	02	19	7		11					
			F	21	52									
932	Jul. 12		e	23	46	13								Initials inevident.
933	Jul. 13		e(P)	0	36	35								47°20'N;25°25'E Rumania.
			eS_E	0	41	15								
			i_N	0	42	09								
			L_N	0	43	40								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
934	1935 Jul. 13		M_N	2	19.	2								Manila △=510 km.
935	Jul. 13		M_N	2	41.	3								Manila △=580 km.
936	Jul. 13		$i(L)_N$	4	00	38								
937	Jul. 13		e	18	02	50								No other phases distinguishable.
938	Jul. 15		eL	7	26									
939	Jul. 15		e_N	8	51	41								
			e_N	8	53	03								
			e_N	8	55	06								
			M_N	8	57	30				10				
940	Jul. 15		m	12	23.	3								Very small
941	Jul. 15	Iu	P	14	24	47					(9, 20)			In minute gap.
			PP	14	27	58								Deep focus type
			iS	14	34	07								
			e_N	14	37	11								
			e_E	14	37	50								
			SS?	14	38	32								
			F	15	05									
942	Jul. 16		e	15	03	06								
			eL	15	05.	8								
943	Jul. 16	IIIv	iP	16	20	50					(1, 37)		950	Up. P being preceded by micro tremor.
			e_N	16	22	20								Destructive in Formosa.

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		S	16	22	27					(1,	37)	950	Taihoku: 24.4°N, 120.4°E
														Tokyo: 24.6°N, 120.9°E
			$i_{N,E,Z}$	16	22	37								Strong A. F. of Apr. 20 great Quake (No.789.)
			L_Z	16	22	50								From Wiechert.
			L_N	16	22	54								
			L_E	16	22	58								From Wiechert.
			M_Z	16	23	17			260			2.5		All comp. except Z are out of limit.
			C	16	58	00								F continued by next.
944	Jul. 16		e	17	41	16								A, F. of No. 943.
			eL	17	42	00								Superposed on the former.
945	Jul. 16	Ir	iP_N	20	06	53					(4,	54)		Deep focus type.
			$i_P P_N$	20	07	23								Manila: probably Philippine Deep.
			iS_E	20	11	47								
			S_N	20	11	52								
			sS_N	20	12	22								
			$SS_{N,E}$	20	13	57								
			eL	20	16.	1								No definite M.
			F	21	12									
946	Jul. 17	Ir	eP	0	32	46					(6,	31)	4750	Alaska?
			S	0	39	17								
			eL	0	50.	4								
			M	0	56	±				18	16			
			F	1	40									
947	Jul. 17		eL_E	3	33.	6								
			eL_N	3	34.	5								
			M_N	3	38	15								
			F	4	10									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935													
948	Jul. 17		e?	5	10	17								Trace only.
			M	5	44.	3				18	20			
			F	6	20									
949	Jul. 17	I_r	eP	6	57	06					(1,	57)	1150	Weak initials, Formosa?
			eS	6	59	03								
			F	7	20									
950	Jul. 17	I_u	P	11	05	41					(10,	07)	8920	
			ePP_N	11	09	21								
			ePR_2	11	11	06								
			iS	11	15	48								
			i_E	11	19	00								
			SR_{1N}	11	20	30								
			SR_{2N}	11	24	16								
			iG	11	28	06								
			eL	11	32.	3								Light was shut out for 21 minutes.
			M_1	12	04	28	6			19	18			
			M_2	12	19	10				16				
			F	13	20									
951	Jul. 17	O_r	eP	18	30	45					(5,	45)	3960	
			S	18	36	30								
			F	19	30									
952	Jul. 17	I_v	P_N	22	12	49					(1.	38)	960	Formosa.
			S_E	22	14	27								
			L_E	22	14	55								
			L_N	22	14	56								
			M	22	16	+								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
953	1935 Jul. 19	IIIr	iP	0	54	10					(4,	01)	2435	Up. Five vibrations of micro tremors. Tokyo: 36°05'N; 143°E, Kashima Nada. 日本鹿島灘。東北，本州強烈地震。
			$i_{N,E}$	0	54	19								
			PR_1	0	54	34								
			PR_{2E}	0	54	46								
			i_N	0	58	00								
			iS	0	58	11								
			SR_1	0	58	53								
			L_N	0	59	42								
			iL_E	1	00	58								
			M_1	1	01	40	67	60	22	16	20	20		
			M_{2Z}	1	02	48			11			16		
			M_N	1	03	48	52			13				
			F	3	30									
954	Jul. 19		eP	6	19	40					(2,	18)	1265)	Small.
			$e(S)_E$	6	21	58								
			$e_{N,E}$	6	23	00								
			F	6	46									
955	Jul. 20	Ov	eP_N	14	41	50					(1,	28)	860	
			eS	14	43	18								
			L	14	44	03								
			i_E	14	44	11								
			M_E	14	44	35		7			6			
			F	15	10									
956	Jul. 23		eL	18	08	±								
957	Jul. 26	Ir	eP	8	08	29					(3,	53)	2345	
			iS	8	12	22								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		L	8	14	38								No definite M.
			F	8	58									
958	Jul. 26	Ir	eP	9	13	37				(3,	46)			Tokyo: 47.5°N;147.3°N.
			$e(S)_N$	9	17	23								北知床岬東南海底
			e_E	9	17	50								Deep focus. abnormal felt area.
			iL	9	18	22								
			e	9	19	15								Probably beginning of M.
			M_N	9	20	10	9		7					
			F	9	40									
959	Jul. 26	IIr	$iP_{E,Z}$	10	35	52				(2,	56)	1665		Up. Epc. probobly between
			PP_E	10	36	18								Chinghai and Szechwan by Nk, Chiu. Hk.
			S_N	10	38	48								
			i_E	10	39	02								
			i_Z	10	40	02								
			L_N	10	40	12								
			L_E	10	40	20								
			M_N	10	41	±	mm 63							Light faint,
			M_E	10	42	±		mm 55						
			F	12	00									
960	Jul. 26		e?	23	30	18								
			e_N	23	30	37								Very small.
961	Jul. 27	Or	$e(P)_N$	3	39	14				(4,	22)	2700		Felt at Tacloban, P.I.
			eS_N	3	43	36								
			eL_N	3	46.	6								
			M	3	49.	3			15					
			F	4	28									

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$\varnothing = 32°03'11"N$ $\lambda = 118°46'55"E$ h = 60m. Underground: Conglomerate.

No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935													
962	Jul. 27		P	10	18	08								
			e?	10	25	±								
963	Jul. 27		i(S)	16	46	37								Initials not distinct.
964	Jul. 27		eL	17	12.	6								Trace only.
965	Jul. 28		e	5	31	00								Micro. strong.
			iS?	5	36	53								
966	Jul. 29	IIu	iP_E	7	50	15					(9, 29)		8060	JSA: 22.9°S, 178.2°W, h=490km.
			iP_N	7	50	19								USCGS: 23°S, 178°W.
			PR_1	7	52	58								
			PR_2	7	54	49								
			iS	7	59	44								
			SR_{1E}	8	02	57								
			SR_{1N}	8	03	15								
			e_E	8	04	01								
			SR_2?	8	05	07	42	32		—	10			
			eL_E	8	06	±								
			M_E	8	11	47		22			16			
			F	10	20									
967	Jul. 29		eL	23	37	50								Micro. strong.
968	Jul. 30	Ir	iP	5	52	44?					(6, 05)		4280	Time correction uncertain.
			S	5	58	49								Pacific.
			eSS	6	02	11								
			eL	6	08.	3								
			F	6	40									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
969	1935 Jul. 31		M	10	21	—								
970	Aug. 1	IIr	iP	14	11	25					(4,	00)	2420	Manila: 10°.5N,126.4,° Philippine Deep.
			S_N	14	15	25								Felt strongly in Samar, P.I.
			L_E	14	17	00								
			eL_N	14	17	24								
			M_{1E}	14	18	30		14			13			
			M_{2E}	14	20	49		10			12			
			M_N	14	21	42	19			15				
			F	16	05									
971	Aug. 1		eL	17	15.	5								Near Pacific Coast of Costa Rica, 10°N,86° W.
			F	18	25									
972	Aug. 3	IIIr	$eP_{N,E}$	1	15	25								Probably initials of another shock.
			$iP_{N,E,Z}$	1	16	55					(5,	26)	3660	Down.
			PR_1	1	17	48								Batavia: 7°N;94°E
			PR_2	1	18	20								USCGS: 5°N;96°E
			iS_N	1	22	21								UGEGI: 5°N;95.5° E
			i_N	1	23	08								Strait of Malacca.
			SR_1	1	24	11								
			eSR_2?	1	24	42								
			L	1	25	55								
			M_{1E}	1	30	27								
			M_{2E}	1	32	14		565			16			Data from Wiechert.
			M_{3E}	1	32	53		525			12			
			$M'_{N,Z}$	1	33	16	403		400	12	11	12		
			F	3	—									
973	Aug. 3	Ir	P_N	11	50	07					(4,	02)	2455	Manila: 11.2°N,128° 2E.

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		S_E	11	54	09								
			L_E	11	56	46								
			F	12	30									
974	Aug. 3	Ir	eP_E	13	22	20							(4, 29)	2800
			$e(S)_N$	13	26	49								
			M_N	13	28	34								
			M_E	13	29	36								
			F	13	50									
975	Aug. 3	Ir	eP	14	10	15							(4, 30)	2810
			eS	14	14	45								
			eL	14	16	25								
976	Aug. 4		e_N	5	20	44								Confused by strong micro.
977	Aug. 6		P	20	47	20								
			e_N	20	49	27								
			M	20	50	50				2				
978	Aug. 9		eP?	16	50	15								Formosa Quake type.
			e	16	52	36								
			eL	16	53	00								
			M	16	53	30				1.1	1.0			
979	Aug. 11		e_N	4	06	13								No other phases.
980	Aug. 11		e	9	01	±								
981	Aug. 16		e	16	01	15								

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
982	1935 Aug. 16	Ir	eP	19	23	35					(1,	56)	1150	Very weak beginning.
			e(S)	19	25	31								
			$i_{N,E}$	19	26	24								
			M_N	19	28	05				6				
			F	19	55									
983	Aug. 17	IIu	iP	1	56	09					(8,	53)	7310	USCGS: 20°S; 172°E.
			i	1	56	20								JSA: 20°S; 171.5°E. Pacific.
			PcP	1	56	50								
			PR_{1N}	1	58	25								
			$e_{N,E}$	1	59	03								
			PR_{2N}	2	00	09								
			PR_{3E}	2	02	12								
			eS	2	05	02								
			iPS	2	05	46								
			iS_CS_N	2	06	26					13			
			i_N	2	09	03								
			SR_1?	2	09	38					16			
			P_CSSP	2	10	39								
			SR_2	2	12	07								
			SR_3	2	13	32								
			L_N	2	17.	2								
			M_{1E}	2	23	45								
			M_{1N}	2	24	40	13			18				
			M_{2E}	2	26	06		20			18			
			M_{3E}	2	26	46		20			19			
			M_{4E}	2	28	04		20			18			
			M_N	2	28	32	15			17				
			F	5	22									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
984	1935 Aug. 17	Or	P	7	27	23					(3,	51)	2310	
			eS	7	31	14								
			eL	7	33	46								
			F	7	56									
985	Aug. 17		e	13	50	33								
986	Aug. 17	Ir	P	20	29	30					(2,	54)	1655	Manila: about 18.3° N, 120.2° E.
			S	20	32	24								Felt at Laoag(III), P. I.
			L	20	34	37								
			M	20	35	19				12	10			
			F	21	10									
987	Aug. 21	O	e_N?	6	33	17								Formosa Quake type.
			e	6	34	37								
			eL	6	35	18								
			F	6	50									
988	Aug. 21	Ou	e	13	59	10								A distant Quake.
			PP?	14	04	20								
			S	14	11	00								
			F	14	45									
989	Aug. 21		e	17	07	08								Very small.
990	Aug. 22		eL	17	56	±								Formosa Quake type.
991	Aug. 23		e	10	34	12								Initials masked by micro
			eL	10	40.	6								
			M	10	45	±								

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
992	1935 Aug. 23	IIr	iP	14	05	24					(6,	20)	4235	S off Celebes.
			i_N	14	05	40								
			ePR_2	14	07	04								
			iS	14	11	26								
			i_E	14	11	54								
			i_N	14	12	21								
			SR_{1N}	14	14	04								
			eSR_2	14	14	32								
			L_{1N}	14	16	36								
			L_{2N}	14	18	10								
			i	14	19	40								
			M_1	14	23	16	46	29		17	17			
			M_2	14	24	32	43			15				
			F	15	30									
993	Aug. 25	Iu	eP	5	18	34					(12,	30)		Strong micro.
			e	5	22	31								UGeGI: about 74°N; 36°E SE off Spitzberg.
			eS	5	31	04								
			eSR_2?	5	35	14								
			iL_E	5	39.	0					36			No definit L on N-S.
			M_{1E}	5	43	36		31			19			
			M_{2E}	5	45	38		13			16			
			F	6	34									
994	Aug. 26	IIr	P	16	33	42					(1,	34)	920	Formosa Quake type?
			e(S)	16	35	16								
			$i(L)_E$	16	35	40								
			i	16	36	28								
			M_{1E}	16	38	39		25			10			
			M_2	16	39	50	23	25			9			

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
995	1935 Aug. 27	Ir	eP	5	23	56					(2, 01)		1100	
			i	5	24	37								
			S	5	25	57								
			iSS	5	26	37								
			iL	5	27	52								
			M_1	5	28	36		16			10			
			M_2	5	29	50	16	16		10	9			
			F	6	00									
996	Aug. 27		e	7	07	26								Very small.
			e	7	14	52								
			eL	7	17	38								
997	Aug. 27		eP	14	35	13								Trace only.
			M_E	14	44.	3					14			
998	Aug. 30		eL	18	45.	8								
999	Aug. 31	Or	P	0	24	38					(4, 52)		3120	
			S?	0	29	30								
			L	0	34	05								
			M_E	0	36	46								
			F	1	10									
1000	Aug. 31	Ir	P	17	21	15					3 58)		2400	Felt at Guinan and Tacloban with intensity V.
			e(PP)	17	21	36								
			S_E	17	25	13								
			L_E	17	27	50								
			L_N	17	27	57								
			F	17	—									Overlapped by next.

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
1001	1935 Aug. 31	IIr	eP	17	45	51					4,	43)	3000	Japan.
			PP	17	46	29								
			iS	17	50	34								
			SR_{1N}	17	52	17								
			L	17	54	11								
			M_{1N}	17	56	05				20				
			$M_{N,E}$	17	57	55	9	15		17	16			
			M_{2E}	17	59	03		15			16			
			F	19	40									
1002	Sept. 1		e	0	37	36								Distant.
			M	0	41.	3								
			F	1	40									
1003	Sept. 2	Or	P	7	24	45					(5,	40)	3890	Japan.
			S	7	30	25								
			i_E	7	34	23								No definite L & M.
			F	8	05									
1004	Sept. 3	Ir	P	10	59	04					(1,	58)	1170	
			S	11	01	02								
			L	11	01	43								
			i	11	03	24								Probably beginning of M.
			M_1	11	03	55		13			9			
			M_2	11	05	09	12	14		9	8			
			F	11	50									
1005	Sept. 4	IIIr	iP_N	1	40	21					(2,	00)	1190	Down. Slight damage in SE off Taito. Taihoku: 22°30'N, 121°30'E.
			i_E	1	40	46								
			eS_E	1	42	21								

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		i	1	42	34								
			L	1	42	52								
			M_1	1	43	34			180			3		Out of scale on G-W and Hori. Wie.
			M_2	1	44	02			176			4		F overlapped by next A.F.
1006	Sept. 4	Ir	P	1	57	03					(2,	03)	1110	A.F. of No. 1005.
			eS	1	59	06								
			i_N	1	59	23								
			L_E	1	59	30								F overlapped by next.
1007	Sept. 4	IIIr	eP	3	30	23					(2,	23)	1320	A.F. of No 1005.
			S	3	32	46								
			L	3	33	28								
			M_{1N}	3	33	57	50			8?				
			M_{2N}	3	34	42	84			10				
			F	4	40									
1008	Sept. 4		e	10	42	36								Very small.
1009	Sept. 4		e	18	54.	7								Very small.
1010	Sept. 9		eP_E	5	15	45								Small.
			L_N	5	18	25								Down.
1011	Sept. 9	IIIr	P	6	18	21								
			S_{WIE}	6	24	14					(5,	53)	4090	Down. Rather looks like P phase.
			S_{G-W}	6	24	28					(6,	07)	4310	Manila: 7°N, 143°E
			i	6	25	19								
			i_N	6	26	03								
			SR_E	6	26	57								

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		iL	6	29	32								
			i	6	31	45					15			Beginning of M, rather long period.
			M_1	6	32	07					15			
			M_2	6	34	05	51	63			14			
			M_3	6	34	51		60			12			
			M_4	6	36	23		61			12			
			F	8	55									
1012	Sept. 9		e_E	17	55	55								Very small.
			m_N	17	56	35								
1013	Sept. 10		eL	14	56	55								Manila: Probably in the gulf of Leyte.
1014	Sept. 11	O	e	11	58	26					(10,	16)	9120	
			S	12	08	42								
1015	Sept. 11		e	13	28.	7								
1016	Sept. 11	III	iP	14	09	22					(4,	16)		Deep focus. Azi. WSW Up.
			pP	14	09	46								USCGS: 45°N; 146°E.
			iS	14	13	38								Manila: 42°N; 146°E.
			sS_N	14	13	58								
			isS_E	14	14	06								
			$L_{E,Z}$	14	16	34								
			M_E	14	18	24		148			17			
			M_N	14	20	25	120			14				
			F	17	53									
1017	Sept. 12		eP	16	12	26					(9,	07)	7620	
			eS	16	21	33								

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1018	1935 Sept. 14		e	8	32	12								Very small.
1019	Sept. 14		e_E	14	23	57								
			eL	14	30	50								
1020	Sept. 15	Iu	P_N	11	24	12					(7,	15)	5540	
			eS	11	31	27								May be earlier.
			L	11	37.	9								
			M_1	11	42	00		20		20	17			
			M_2	11	43	00		11			18			
			F	12	40									
1021	Sept. 15	Iu	eP'_E	14	31	00								A teleseism.
			e_E	14	32	24								
			eS_E ?	14	41	44								
			L	15	13.	9								Period about 24 secnds.
			M_E	15	25	04					20			
			F	16	10									
1022	Sept. 18	Ir	P	8	28	43					(2,	55)	1660	Strong micro.
			S	8	31	38								
			L	8	35	30								
1023	Sept. 18		e_E	8	54	54								
			eI_E	9	02	44								
1024	Sept. 18		e_E	20	14	02								
			eL_E	20	21	13								Small.
1025	Sept. 19	Ou	eP	2	35	04					(7,	20)	5630	Strong micro. From Wiechert.

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		eS_E	2	42	24								
			M_E	2	53	54								
			F	3	30									
1026	Sept. 20	IIIr	iP	1	54	27					(6,	17)	4500	Up.
			i_N	1	54	57								USCGS: 1.5°S, 142°E.
			iS	2	00	44								N off. New Guinea
			iSR_{2E}	2	04	ii								Rather long period, from Wie.
			iSR_{2N}	2	04	i7								Ratloer long period, from Wie.
			eL	2	06	41								
			M	2	11	00			956	21	22	21		Out and faint on G-W.
			F	5	—									Cotinued by next.
1027	Sept. 20	IIr	iP	5	31	00					(6,	21)	4565	Up. A.F. of No. 1026.
			e_N	5	32	45								N off New Guinea.
			iS	5	37	21								Light was out on G-W.
			iSR	5	40	41								J.S.A: O°N, 146°E.
			L_E	5	42.	2								
			L_N	5	42.	6								
			M	5	45.	0			114	22	16	24		
			F	7	15									
1028	Sept. 20	Ou	iP	20	14	16					(6,	49)	5080?	Trace only.
			eS?	20	21	05								
1029	Sept. 20	Ir	P_E	21	12	03					(6,	36)	4845	N off New Guinea.
			S_E	21	18	39								
			i_E	21	15	55								
			L_E	21	21	43								
			F	22	15									

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No.	Date	Character	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
1030	1935 Sept. 23		$e(S)_E$	9	16	45								Masked by micro.
1031	Sept. 23	IIr	P	9	26	11					(6,	27)	4680	Up. N off New Guinea.
			S	9	32	38								USCGS: 1.5°S; 142°E.
			iSR	9	36	03								JSA: 0.5°N, 141.5°E
			L?	9	38	38								No definite M phases.
			M_E	9	40	45		14			16			
			F	11	15									
1032	Sept. 24	Ir	iP	5	09	00					(6,	19)	4530	Up. N off New Guinea.
			iS	5	15	19								
			i	5	18	31								
			eL	5	25.	1								
			F	5	45									
1033	Sept. 24		P	16	42	22								Very small.
			eL	16	49	03								
1034	Sept. 24		eP	16	58	35								Very small.
			eL	16	06	±								
1035	Sept. 24	I	iS	22	34	17								Initials inevident.
			L_1	22	50	57								JSA: 50°N, 129°W.
			L_2	22	54	03								H=22h 12m 21s
			M_E	23	04	±					14			
			F	23	37									
1036	Sept. 25		e	4	25	±								
1037	Sept. 25	IIr	iP	10	27	27					(6,	15)	4455	Up. Manila: 2°S, 145°E.

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No.	Date	Char-acter	Phase	G. M. T. h.	m.	s.	Amplitude A_N	A_E	A_Z	period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		iS	10	33	42					(6,	15)	4455	New Guinea.
			i_E	10	36	57								
			L_E	10	39	19								
			M	10	42	42		4		11	12			
1038	Sept. 25	Or	eP	12	38	21					(6,	22)	4590	
			iS	12	44	43								
			e(L)	12	50	29								
1039	Sept. 26		e	22	53	20								A distant quake.
			L_E	23	07	06								
			M_E	23	17	±					30			
1040	Sept. 27		e	3	38	±								
			M	3	43	30					8			
1041	Sept. 28	Ir	P_E	17	11	14					(4,	20)	2680	
			S_E	17	15	34								
			L_E	17	16	50								
			M_E	17	17	30					15			
1042	Sept. 29		eL	05	58	50								Initials very weak.
1043	Sept. 30	Ir	P	0	11	07					(3,	37)	2145	
			S	0	14	44								
			m	0	17	05					6			
			M	0	19	04								
1044	Sept. 30		e_E	23	58	25								
			e_E	24	01	19								Disturbed by micro.

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國立中央研究院氣象研究所

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ACADEMIA SINICA

PEICHIKO, NANKING, CHINA.

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符號凡例

1. 地震之性質

	I. 可辨別	II. 稍强	III. 强
d.	局部地震	(震源在一百粁以內)	
v.	近地地震	(震源在一千粁以內)	
r.	遠地地震	(震源在五千粁以內)	
u.	極遠地震	(震源在五千粁之外)	

2. 震波圖之相位

P	縱波 (或初期微動之第一前走波)
PR_1.PP	縱波對於地球表面經一次反射之波
PR_2.PPP	縱波對於地球表面經二次反射之波
S	橫波 (或初期微動之第二前走波)
SR_1,SS	橫波對於地球表面經一次反射之波
SR_2,SSS	橫波對於地球表面經二次反射之波
PS,SP	變轉波卽縱波(橫波)對於地球表面反射時所變轉之橫波(縱波)
L	主要動之地面波
$M_1.M_2.^{\cdots}$	地面波之極大動
C	終期尾動
F	能認別之最終動

3. 運動之種類等

i	相位之明顯者
e	相位之不明顯者
?	相位之可疑者
T	週期(以秒爲單位)
A	實際上地面震動之半震幅(以μ,千分之一粍,爲單位)
△	震央距離(以粁爲單位)

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Symbols and Notations

1. Character of the Earthquake—

I. Perceptible. II. Moderately strong. III. Strong.

d (terrae motus domesticus)	Local shock (origin less than 100 km. distant).
v (terrae motus vicinus)	Near shock (origin from 100 to 1,000 km. distant)
r (terrae motus remotus)	Distant shock (origin from 1,000 to 5,000 km. distant).
u (terrae motus ultimus)	Very distant shock or teleseism (origin more than 5,000 km. distant).

2. Phases of the Seismogram—

P (undae primae)	Normal first phase, or first preliminary tremors (longitudinal).
P'	First preliminary tremors which have penetrated the core of the earth
PRn	Waves n times reflected at the earth's surface.
S (undae secundae)	Second phase, or second preliminary tremors (transverse).
SRn	Waves n times reflected at the earth's surface,
PS, SP	Waves changed from longitudinal to transverse oscillation or vice versa through reflection at the earth's surface.
PPS	Waves twice reflected at the earth's surface, having been longitudinal on two branches of the path and transverse on one branch.

In general, a bar over two letters denoting types of waves indicates refraction. The subscript c denotes the boundary at about 2900 km. depth between the metallic core and the middle shell which surrounds it. Thus:

$\overline{\text{ScPcS}}$	Waves which have penetrated the core, having been tranverse before entering and after leaving the core, and longitudinal within the core.
$\overline{\text{PcPcPcP}}$	Waves refracted at the core boundary into the core, reflected once at this boundary while within the core and again refracted out of the core, having remained longitudinal on all branches of the path.

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L (undae longae)	Long waves of surface phase preceding M.
M (undae maximae)	Shorter and more regular waves of large amplitude in the surface phase.
$W_2.W_3.W_4...$	The maximum waves coming again to the station after circumscribing the earth once, twice, etc.
C (coda)	Tail or end portion.
F (finis)	End of discernible movement,

3. Nature of the motion

i (impetus)	Sudden beginning of the motion.
e (emersio)	Gradual beginning of the motion.
?	Questionable or uncertain.
m	Maximum wave in any phase.

4. Time—

All determinations are reduced to Greenwich mean time. The contact clock which gives the time mark is daily corrected by radio with the time signal from Zi-ka-wei Observatory.

Constants of the Seismographs

1. Mechanical Registration.

Apparatus	Component	V	T_0	$\in$	r
Wiechert 17,000 kg.	N	1740	1.48	2.0	0.50
	E	1360	1.50	1.2	0.20
Wiechert 1,300 kg.	Z	154	4.02	3.0	0.80

2. Galvanometric Photographic Registration.

Constants of Galitzin-Wilip.

Component	Galvanometer Free Period T_1	Pendulum Free Period T	Damping Constant $\frac{2}{\mu}$	Transmision Factor k	Synchronous Magnification $\frac{kAT}{4\pi I}$
N-S	11.02	10.31	+0.27	182	1690
E-W	10.84	10.39	+0.26	182	1730

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1045	1935 Oct. 1		eL	3	39	±								Netherland East Indies.
1046	Oct. 1		e	6	24	43								
1047	Oct. 2	IIr	iP	5	38	17	-4	-7		4	4		2700	Up. Deep focus type.
			i	5	38	33								Tyosen gives 145.8E,42.9N.
			iS_E	5	42	39					(4,	22)		Off the cape of Otiisi, Hokaido.
			iS_N	5	42	43								JSA:43.8°N,146.5°E
			L_E	5	43	33								
			M_E	5	47	23		20			15			
			F	7	30									
1048	Oct. 2		P_E	9	30	05								Very Small.
			e_N	9	33	53								
1049	Oct. 4	Ir	iP_N	5	20	40					(4,	04)	2480	Manila:6°20'N,125°E
			i_N	5	22	36								Deep. h=400km.
			iS	5	24	44								H=5h15m30s.
			i_E	5	26	40								
			i_N	5	27	00								
			F	6	14									
1050	Oct. 4		eL	9	53	04								
			M	9	55	48								
1051	Oct. 4		e	15	09	35								
			eL_N	15	16	07								
1052	Oct. 4		e_E	21	00	31								
			$e(L)_E$	21	02	35								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
1053	Oct. 5	Iv	P_E	8	48	04					(0,	49)	480	Small near shock,
			S	8	48	53								
			F	8	51									
1054	Oct. 6		eL	14	57	52								Initials inevident.
1055	Oct. 8	Ou	P_E	9	26	42								Central Asia, Russian Turkestan.
			e	9	32	40								
			L_E	9	41	02								
			L_N	9	41	34								
			F	10	30									
1056	Oct. 10		e	5	27	01								
			e	5	29	37								
1057	Oct. 10	Or	eP	12	37	27					(3,	33)	2090	Felt at Leyte and Samar, P.I.
			eS_E	12	41	00								
			S_N	12	41	26								
			eL	12	44	00								
			M_E	12	45	00					10			
			F	13	45									
1058	Oct. 10	Ir	P	20	13	06					(4,	00)	2420	Manila: probably 11.2° N 126°.1E
			iS	20	17	06								
			L_E	20	19	48								
			F	21	54									
1059	Oct. 11	Or	P	4	27	35					(5,	46)	3980	
			S	4	33	21								
			F	4	57									

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1060	1935 Oct. 11	IIr	P	22	23	57					(6,	34)	4800	Manila:about 1°N,145°E.
			iS	22	30	31								
			i	22	33	33								
			L_N	22	37	15								Bulb burns out at 45min.
1061	Oct. 12	IIIr	P	16	50	04					(4,	08)	2520	NE off Miyako, Iwate Pre.
			PP	16	50	42								Tyosen:143.3E, 40.4N.
			S_E	16	54	12								JSA:43°N 144°E
			i	16	54	45								UGEGI:41.5°N,140°E.
			L_E	16	56	24								
			L_N	16	57	02								
			M_E	16	57	40					16			Out and faint.
			M_{N1}	17	00	33	39	60.5 MM		15				
			M_{N2}	17	02	48	40			13				Continued by next.
1062	Oct. 12	Ir	P	18	18	52					(4,	44)	3010	Tyosen:40.1N. 143.0E, Japan.
			eS_E	18	23	36								
			L	18	26	44								
			F	20	10									
1063	Oct. 13	Ir	iP	2	02	14					(4,	10)	2545	Japan,日本
			S	2	06	24								
			L	2	09	10								
			M	2	10	32								
			F	4	08									
1064	Oct. 14		i	19	53	22								Felt over western Luzon,P.I.
1065	Oct. 14		e	20	42	06								
			M	20	46	±				14				

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∅=32°03'11"N 入=118°46'55"E h=60m. Underground: Conglomerate.

No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1066	1935 Oct. 15	Or	P	10	35	19					(4,	11)	2565	
			eS	10	39	30								
			eL	10	43	10								
			F	11	20									
1067	Oct. 15	Ir	iP	14	38	19					(2,	38)	1480	Tyosen: 135.4, E.37.7N. Deep.
			S	14	40	57								NW off Noto, Isikawa.
			F	15	25									
1068	Oct. 16		e	20	17	20								Formosa.
			e	20	18	04								
			i	20	19	10								
			F	20	40									
1069	Oct. 17	Ir	P_E?	14	45	14					(2,	38)	1480	
			eS_E	14	47	52								
			$eL_{N,E}$	14	50	16								
			M_E	14	54	06		6			15			
			F	15	50									
1070	Oct. 18	IIIr	iP	0	16	47					(4,	08)	2520	日本
			i	0	17	10								JSA: 43.8N, 147°E Japan.
			S	0	20	55								
			i	0	22	15								
			L_Z	0	23	23					24			
			M_1	0	25	11	28	93	33	16	16	17		
			M_2	0	27	00	36	66		13	15	13		Faint and out.
			M_3	0	29	54	24	86		12	12	12		
			C	1	33	±								
			F	4	10									

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1071	1935 Oct. 18	Ir	P	5	56	31					(4,	08)	2520	
			S	6	00	39								
			L	6	02	55								
			M	6	04	51								
			F	7	45									
1072	Oct. 18	IIr	iP	11	11	23					(4,	04)	2480	Epc. near Guam.
			iS?	11	15	27								
			i	11	16	31								
			L	11	18	12								
			M	11	20	20					20	24		
			F	14	00									
1073	Oct. 18	IIIr	iP	14	58	46					(4,	03)	2465	G-W N-component clock stopped.
			S	15	02	49								Tyosen: 143.9E, 40.4N
			L	15	04	40								NE off Miyako.
			M_1	15	07	05		30			16	18		
			M_2	15	11	23		30			11	11		
			F	18	03									
1074	Oct. 18	Ir	P_E	21	56	18					(4,	06)	2500	,,
			iS_E	22	00	24								Tyosen: 143.5E, 40.0N
			iL_E	22	03	00								NE off Miyako.
			M_E	22	04	36		7			16			
			F	23	35									
1075	Oct. 19	Ir	P_E	0	56	30					(4,	08)	2520	,,
			iS_E	1	00	38								
			L_E	1	03	10								
			M_E	1	04	40					15			

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1076	1935 Oct. 19	Ir	P	2	43	50					(4,	12)	2580	
			iS	2	48	02								
			M	2	01	11					16			
			F	4	00									
1077	Oct. 19		e	5	27	39								JSA:46.6N,111.8W,
			eL	5	32	43								USCGS:Montana.46.6°N,112° W,
			M_E	5	40	13					16			
1078	Oct. 19		e	10	27	39								
			eL	10	31	36								
1079	Oct. 19	Or	eP	20	28	04					(4,	02)	2455	
			eS	20	32	06								
			F	20	46									
1080	Oct. 20		i	5	08	26								
			eL	5	24.	8								
1081	Oct. 25		eL	17	52.	0								Initials masked by micro.
1082	Oct. 26		e	21	41	00								No other phases distinguishable
2083	Oct. 30	Or	P	2	08	54					(4,	24)	2735	
			S	2	13	18								
			L	2	16	08								F. Continued by next
1084	Oct. 30	Ir	P	2	35	58					(4,	08)	2520	
			S	2	40	06								
			L	2	43	38								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1085	1935 Oct. 31		eP	12	01	01								Very Small.
			e	12	01	49								Formosa.
			L	12	02	00								
			F	12	15									
1086	Oct. 31		iP_N	19	01	36								JSA:46.6N,111.8W.
			L_E	19	27	02								USCGS:Montana,46.6°N,112.0°W
			M_E	19	30	03					18			
			F	20	00									
1087	Oct. 31		e	23	03	00					(5,	35)	3800	Small.
			S	23	08	35								
1088	Nov. 1		e?	6	28	56								Felt in E. Canada & NE USA.
			e	6	30	14								USCGS: 46.4N, 79.4W.
			eL_E	6	54	20								JSA: 46.6N, 79.3W.
			M_E	7	02	42					18			H=06h03m 35s.
			M_N	7	06	06				17				
1089	Nov. 1	IIIr	iP_E	16	26	09					(3,	28)	2035	Manila:21°N, 103°E
			iS	16	29	37								Felt in Phulien.
			L_{1N}	16	30	57								
			$L_{2N,E}$	16	31	11								
			$i_{E,Z}$	16	31	29								Out and faint on G-W.
			M_{1Z}	16	32	15			73			5		
			M_{2Z}	16	33	03			312			8		
			M_{3Z}	16	33	25			136			6		
			F	19	00									
1090	Nov. 1	Or	P_E	20	58	27								Very weak beginning.

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935 Cont'd.		L	21	03	39								Probably A.F.of No.1089.
			M	21	04	08	17			9				
			e_E	21	01	54		7			8			
			F	21	40									
1091	Nov. 3		i_E	16	46	26								
			L_N	16	50	24								
			M	16	51	42				9	8			
			F	17	15									
1092	Nov. 5		e_E	9	39	15					(6,	06)	4300	
			$eS_{N,E}$	9	45	21								
			L	9	51.	0								
			F	10	20									
1093	Nov. 5	Ir	iP_N	21	03	05					(4,	45)	3020	Manila:5°45'N,126°12'E.
			iS_N	21	07	50								Felt in eastern Mindanao.
			i_E	21	14	00								
			L_N	21	11	18								
			M_N	21	14	55								
			F	22	10									
1094	Nov. 6	Or	P_E	13	18	02					(4,	38)	2920	
			S_E	13	22	40								
			F	13	45									
1095	Nov. 6		eP	21	51	25					(4,	32)	2845	Felt in SE Mindanao.
			eS	21	55	57								
			F	22	40									

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$\varnothing$ = 32°03'11"N λ = 118°46'55"E h = 60m. Underground: Conglomerate.

No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	Δ	Remark
1096	1935 Nov. 7		e	10	30	53								Very Small.
1097	Nov. 10		e	19	30									USCGS:16.7°N,62.2°W.
			eL	19	39									JSA: 18,0°N,62.8°W.
			M	19	46									
1098	Nov. 11	Ir	eP	13	20	00					(6,	40)	4910	
			S	13	26	40								
			L	13	32	52								
			M	13	36	20				14	13			
			F	13	53									
1099	Nov. 12	Ir	P	21	35	00					(5,	33)	3765	Manila:In region of 4°N,95°E.
			S	21	40	33								
			eSS_E	21	43	18								
			L_1	21	45	36								
			L_2	21	47	12								May be beginning of M.
			M	21	49	24	12			12	14			
			F	22	26									
1100	Nov. 14	Iu	iP	20	05	29					(6,	58)	5235	Up. Manila:4.5°S,137°E.
			iS	20	12	27								
			SS	20	16	10								
			L	20	18	50								
			M	20	21	50	24	5		25	24			
			F	21	00									
1101	Nov. 15	Ov	P	6	46	52					(1,	23)	808	Small.
			S?	6	48	15								
			F	6	55									

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1102	1935 Nov. 16	Or	P	5	55	00					(4,	01)	2440	Disturbed by strong micro on G-W
			S?	5	59	01								Felt in Samar & Leyte, P.I.
			L	5	01	35								
			F	6	40									
1103	Nov. 20		e	16	11	55								A slight tremor.
1104	Nov. 21		i_N	8	49	51								
			i_N	8	51	28								
1105	Nov. 25		P_E	3	58	21					(2,	32)	1420	
			S_N	4	00	53								
			F	4	15									
1106	Nov. 25	IIr	P	10	08	56					(5,	34)	3790	Up. Manila:abont 7°N,94°E.
			PP	10	10	29								UGEGI: 10°N,92°E
			S_E	10	14	30								
			i	10	15	37								
			SR_2	10	17	14								
			L_E	10	19.	0								
			L_N	10	19.	8								
			M	10	25	11	880	170	110	14	12	12		
			F	11	50									
1107	Nov. 25	Or	eP_E	22	15	04					(4,	25)	2745	
			S_N	22	19	29								
			L_N	22	23	09								
			M	22	25	45								
1108	Nov. 26		eL	0	48	37								Very small.

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1109	1935 Nov. 26	Ir	P_N	18	40	12					(5,	40)	3880	Manila:7°N,94E.
			S_N	18	45	52								
			eL_N	18	51	10								
			iL_N	18	51	54								
			M_N	18	54	00								
			F	20	00									
1110	Nov. 27	Or	e	9	16	21					(3,	52)	2330	Felt in southern part of Leyte
			S_E	9	20	13								and Samar.
			M_E	9	23.8									
			F	10	20						12			
1111	Nov. 27		eL	12	40	ca.								
1112	Nov. 29		iP	19	36	52								Other phases disturbed by micro.
1113	Nov. 30	Or	eP?	3	34	27					(2,	45)	1555	
			S		37	12								
			L	3	37	46								
			M	3	38	29				6	8			F. continued by next.
1114	Nov. 30		eL_E	4	54.2									Initials disturbed in the coda.
			M_E	5	00	00					20			USCGS:10°N,80°W.
			M_N	5	05	00				20				Felt in Panama.
			F	6	00									
1115	Dec. 1	IIIr	P_E	23	47	10					(2,	13)	1210	About 27.5°N,130°E Ryukyu Is.
			i_E	23	48	00								
			i_N	23	48	22								
			eS	23	49	23								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		iL	23	49	44								Faint and out on G-W.
			M_Z	23	50	26			21.2			4		Continued by next.
1116	Dec. 2	Or	P_E	0	07	47								A.F. of No. 1115.
			L_E	0	09	54								
1117	Dec. 2	Or	P?	0	27	00								A.F. of No. 1115.
			L_N	0	30	30								
1118	Dec. 2		L_N	0	45	45								P. inevident A.F.
1119	Dec. 2		iL_N	4	37	14								P. inevident A.F.
1120	Dec. 2	O	P?	5	13	03								
			L_N	5	15	09								
1121	Dec. 2	IIIr	P_E	16	44	47					(2,	01)	1100	Same epc. as No. 1115.
			i_E	16	45	50								2nd main shock.
			S_N	16	46	48								About 27.5°N, 130°E, Ryukyu Is.
			L	16	47	20								
			i	16	47	43								
			M_Z	16	48	00						6		
			$M_{N,E}$	16	48	24		37		6	7			Out on G-W N-comp.
			F	17	45									
1122	Dec. 2		L_N	18	02	05								A.F. of 1121.
1123	Dec. 3		eL	0	44	±								Ditto ?
1124	Dec. 3	Or	P_E	17	49	24					(4,	23)	2720	S 17h 53m 47s. Small.

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1125	1935 Dec. 5	Iu	eP	18	02	46					(9,	28)	8045	
			eS	18	12	14								
			iSS_N	18	17	26								
			M	18	34	30				20	18			
			F	19	30									
1126	Dec. 7		e?	11	15	10								
1127	Dec. 8		e	5	20	16								Felt in southern Luzon.
			eL	5	27	06								
1128	Dec. 11	Or	e	8	44.9						(2.9)		1655	Small.
			S	8	47.8									
			M	8	50		8	37		11	12			
			F	9	35									
1129	Dec. 14	Iu	$eP'_{Z,N}$	1	49	59								Up. USCGS:6°s, 74°W.
			$i_{N,Z}$	1	50	33								West Brazil.
			$i_{N,Z}$	1	54	09								JSA:5.5°S,73.3°W.
			e_N	1	58	09								
			e_N	2	12	05								
			i_E	2	13	02								
			F	3	15									
1130	Dec. 14	Ir	P	12	52	30					(3,	48)	2280	Marianas Islands?
			i	12	53	21								
			ipP	12	54	00								
			iS	12	56	18								
			sS	12	58	00								
			F	13	50									

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
1131	Dec. 14	IIu	e	22	24	26								14°N,94°W by USCGS.
			iP'	22	26	04								UGEGI: 20.5 N, 95° W.
			i	22	27	37								Gulf of Mexico.
			PR_2	22	31	40								
			iSKS	22	36	08								
			iPS_E	22	43	06								
			SR_1	22	48	20								
			eSR_2	22	52	36								
			SR_3	22	56	28								
			iG	23	04	40								
			i_E	23	08	00					32			Beginning of M.
			M_E	23	10	00		22			32			
			M_N	23	18	06	13			26				
			$M_{N,E}$	23	26	40	11	15		24	18	18		
			M_Z	23	32	30						18		
	Dec. 15		F	1	00									
1132	Dec. 15	Or	e	1	49	54								Felt in northern Luzon.
			e	1	50	28								Both are sharp phases on Wie.
			eL_N	1	52	36								
			F	2	15									
1133	Dec. 15	IIIu	iP	7	17	44					(8, 12)		6550	Down. USCGS: 12°S, 162°E.
			i_Z	7	18	53								Manila: 10°S, 162°30'E.
			iS	7	25	56								
			iPS_Z	7	26	25								
			iSR_1	7	30	11								
			iSR_2	7	32	30								
			L	7	35	30				17				
			M_E	7	37	20		80			21			

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		M_N	7	42	12	73			16				
			M_E	7	40	57		169			20			
			F	11	15									
1134	Dec. 15		e	19	23	19								Very small.
1135	Dec. 17		i	13	34									
1136	Dec. 17	IIIr	iP_N	19	20	13					(2,	13)	1210	Up. Chiufeng 23°N, 127°E. 22°N, 124°E by Nanking, Taihoku, Manila. East off Taito and felt in northern Luzon. UGEGI: 22°N, 126.5°E.
			S	19	22	26								
			L_N	19	23	06								
			L_E	19	23	09								
			i_Z	19	24	24						12		
			M_Z	19	26	57			388			11		
			F	21	55									
1137	Dec. 17	Or	eP	22	36	36					(2,	39)	1490	
			eS	22	39	15								
			I_E	22	39	43								
			F	23	15									
1138	Dec. 18		e	3	17									Trace.
1139	Dec. 18	IIr	P_E	7	13	50					(2,	31)	1410	Chiufeng: 27·5°N, 102·5°E. Damage at Ma-pien, Lei-po and some landslides at Huei-li, Szechwan. Felt area over a radius of 400km. About 28·3°N, 103·8°E by Nk, Chiu, Hk. M phases faint on G-W 馬邊，雷波災情慘重；會理山崩截流。川西川南均感震動。
			S	7	16	21								
			SR_I	7	16	50								
			L_N	7	17	13								
			i	7	17	55								
			$M_{E,Z}$	7	18	10								
			M_N	7	18	25								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935													
1140	Dec. 18		eI.	8	03.	1								A.F. of No. 1139
1141	Dec. 18	Ir	eP	8	07	53					(2,	44)	1545	,,
			eS	8	10	37								
			i	8	11	48								Beginning of M.
1142	Dec. 18	Or	eP_E	8	47	07								A.F. of No. 1139.
			e	8	49	56								
			eL	8	51	05								
1143	Dec. 18		P	13	18	05					(3,	02)	1735	,,
			S	13	21	07								
			m	13	22	18								
1144	Dec. 18	IIr	iP	17	02	45					(2,	30)	1400	2nd main shock of No.1139. About 28·3°N,103·8°E by Nk, Chiu, Hk. Damage at Mapien, Lei-po and some landslides at Huei-li, Szechwan. Stronger than No. 1139.
			S_N	17	05	15								
			L	17	05	52								
			i	17	06	40								
			$M_{E,Z}$	17	07	00		mm 72	408			3		川西川南各縣，均感憾動。馬邊災震
			M_N	17	06	13	mm 88							
			M_{Z2}	17	08	50			672			5		
			F	18	00									
1145	Dec. 18		eP	21	11	09					(2,	57)	1680	
			eS?	21	14	06								May be earlier.
			i	21	15	01								Beginning of M?
			F	21	40									
1146	Dec. 19	Ov	P	8	39	29					(1,	16)	740	A small local shock.
			iS	8	40	45								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
1147	1935 Dec. 19	Ir	P	9	46	15					(2,	55)	1660	A.F. of No. 1144.
			S	9	49	10								
			iL	9	50	11								
			i_E	9	51	41								Sharp beginning of M.
			$M_{E,N}$	9	52	15								
			F	10	15									
1148	Dec. 19	Ir	eP	13	29	55					(2,	55)	1660	A. F. of No. 1144.
			ϵ(S)	13	32	50								
			eL	13	33	50								
			i	13	34	44								
			M	13	36	05								
			F	14	00									
1149	Dec. 19	O	e	23	42.	5								
			M	23	44	30					12			
1150	Dec. 20	Ir	eP_E	0	02	55					(2,	47)	1580	No. 1149 & 1150 are similar. Chiufeng: 23°N. 127°E.
			eS	0	05	42								A.F. of No. 1136.
			M	0	07	50	8	10		12	12			
			F	0	40									
1151	Dec. 20		eP_E	5	50	57					(3,	55)	2365	Small.
			$\epsilon(S)_N$	5	54	52								
			M_E	5	59	57								
1152	Dec. 20	IIu	iP	18	46	47					(7,	59)	6330	Up. Deep focus?
			iS	18	54	46								Manila: I n region of 9°S, 159°E.
			i_N	19	06	13								
			L	19	08	27								

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		M_N	19	12	26					20			
			M_E	19	14	27								
			F	20	40									
1153	Dec. 22	Ir	P	12	29	18					(4,	17)	2635	Strong micro.
			iS	12	33	35								Felt in NE Mindanao & S Leyte.
1154	Dec. 23	Ir	eP	14	47	54	?				(4,	56)	3190	Time correctin uncertain.
			S_N	14	52	50								
			e_E	14	55	44								
			I_E	14	57	04								
			M	18	00	54					18	18		
			F	15	35									
1155	Dec. 23	Or	P	18	34	06	?				(3,	01)	1720	,,
			ϵ(S)	18	37	07								
			ϵ(L)	18	38	17								
			M	18	39	54				8	8			
			F	18	45									
1156	Dec. 24	Ou	eP	12	44	10								Very distant quake.
			$i_{N,S}$	12	44	46								
			eL_E	13	35	46					30			
			F	14	50									
1157	Dec. 28	IIIr	P	2	42	46					(6,	12)	4400	Southwest off Sumatra.
			iPP	2	44	26				20	18	18		G-W electric power broken.
			e_N	2	48	24								Batavia: 0,3°S, 97,9E,
			iS_E	2	48	58		1520			29			USCGS: 3°S, 97°E
			$iS_{Z,N}$	2	49	02	2590		2080	30		36		UGEGI: 0.5°S. 98.5°E

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No.	Date	Character	Phase	G.M.T. h.	m.	s.	Amplitude A_N	A_E	A_Z	Period T_N	T_E	T_Z	△	Remark
	1935 (Cont'd.)		$iSS_{N,Z}$	2	51	47								
			$L_{1N,E}$	2	52	53								
			$L_{2N,Z}$	2	54	14				32		39		
			M_{1Z}	2	56	29			2620			28		
			e_N	2	57	47	1853			20				
			M_E	2	58	17		1720			17			
			M_2	3	00	18	1810	1540	1470	20	17	15		
			C_Z	3	34	44								Average period 12 sec.
			F	6	10									
1158	Dec. 29	Ir	iP_E	3	35	45					(3,	36)	2135	Probably Burma.
			eS	3	39	21								
			L	3	41	41								
			M	3	42	56				6	7			F.continued by next
1159	Dec. 29		eL	4	01	29								
			M_E	4	04	41					14			
			M_N	4	05	51				13				
			F	4	35									
1160	Dec. 29	IIr	iP_N	23	44	27					(5,	40)	3890	Down. Deep focus type.
			S	23	50	07								Epc. western New Guinea.
			e_E	23	50	58								
1161	Dec. 30		$e(S)_N$	4	28	10								
			$i_{N,E}$	4	31	26								
			L_E	4	32	38								
			M	4	36	24				12				
1162	Dec. 31	Ir	P?	1	38	30					(4,	14)	2600	
			S_N	1	42	44								
			eL	1	51	00								
			L_{2E}	1	53	56					16			
			M_N	1	56	16	5			16				
			M_E	1	57	02		6			15			

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The National Research Institute of Meteorology acknowledges with thanks the receipt of the following seismological publications and bulletins from December 1st '35 to February 28th 1936.

Stations	Bulletins & Publications.
Adelaide	January to June, 1932
Batavia	July to September, 1935.
Berkeley, etc.	April to September, 1933.
Cape Town	September to November, 1935.
Cartuja (Granada)	Abril to Julio, 1935.
Chiufeng	Nov. Dec. '35; Jan. Feb. 1936.
Copenhagen	Nos. 29, 30 Jan.-June, '34
Dublin	September to December, '35.
Firenze	Telegrammi Sismologici Luglio-Dicembre,34.
	Bollettino " Luglio-Dicembre,34.
George Town	May, 1935.
Graz	30 Juin bis 31 Dez. '35.
Hamburg	9 Okt. bis 31 Dez. '35.
Harvard	Bul. No. 3 July to Dec '34; No. 4 Jan. to Jun. 1935. Two reprints.
Helwan	June to November, '35.
Hong Kong	Prel. Nov. Dec. Jan, '36.
	Bulletin Oct. Nov. Dec., '35.
Ivigut	For the year 1932.
I. S. A.	Prel. pp. 38-39, Oct. 18-Dec.14 '35.
Kew	Oct. Nov. Dec., '35.
Konigsberg	Bul. Nr. 23 Jahr. '32; Nr. 24 Jan. bis Apr.'35.
Kyoto	Provisional Oct. Nov. Dez., '35.
La Plata	Setiembre, Octubre,1935.
Leipzig	Jan. 1 to April 20, 1935.
Manila	Oct. Nov. Dec.,1935.
Melbourne	July to September, '35.
Mizusawa	January to October, '35.
Ostmarl	For the year 1934.
Ottawa	Sept. Oct. Nov. Dec.,'35.
	Bibliography Vol.12 Nos 6 &7, Apr.-Sept. '35.
Parc Saint Maur	Oct. Nov. Dez. '35 Jan. '36.
Pasadena	Oct. Nov. Dec., '35.
Perth	July 16 to Dec. 16, '35.
Phulien	Mai, Juin Juillet Aout,'35.
Praha	Avril - Juin, Juillet - Septembre, '35.
Rivverview	November, December, '35.
San Fernando	September and October, '35.
Strasbourg	Sept. Oct. Nov. Dez. '35.
Taihoku	Aug. Nov. Dec. '35.
Tananrive	Mai, Juin, Juillet, '35.
Tiflis	Bulletin for the year 1928.
Tokyo, T.R.I.	Report 1935 part 2 Apr. to June .
Toledo	1er Trimester de 1935.
Ubaie	1 Juin - 25 Sept. '35.
Wellington	Prel. Oct. Nov. '35.
" & Christchurch	Prel. Oct. Nov. '35.
Wien	Apr. bis Juli, Dez. '35.
Zikawei	18 Juin au 14 Nov. '35.
Zinsen	July to 18 Oct. '35.
Zurich	Erdbebenbulletin Nos. 65-67, Okt-Dez. '35.