

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.**SEISMOLOGICAL BULLETIN FOR JANUARY 1935.**

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914)
OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1	PENDULUM FREE PERIOD T	DAMPING CONSTANT μ^2	$\frac{Ak}{\pi l}$
N.	5 Sept., 1934	24.7 ^{sec}	24.5 ^{sec}	+ .01	46.7 ^{sec-1}
E.	6 Sept., 1934	24.8	24.8	- .01	42.6
Z.	11 Sept., 1934	13.0	13.1	+ .01	109.

TIME SERVICE: MINUTE TIME MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
Jan.			h.	m.	s.	sec.	μ	km.	
1	Z	iPKP	13	40	2			(16000)	Dilatation. Emergent on horizontal components. Oceania. 17°S., 174°W. (U.S.C.G.S.)
	Z	i		41	15				
	ZNE	ePP		43	21				
	E	i	14	1	38				
	N	eSS		2	22				
	NE	e		3	10				
	E	i		3	54				
	E	eSSS		7	13				No surface waves.
	F		15	30					
2		e	23	17					
	F			35					
3	Z	iP	2	0	58			7310	Compression. Emergent on horizontal components. Tibet. 31.5°N., 88°E. (Strasbourg.)
	NE	iS		9	43				
	ZNE	eSSS		16	52				
	ZNE	i		17	10				
	NE	L		20					
	Z	L		23					
	E	M		28	33	21	+27		
	N	M		28	42	21	+64		
	Z	M		32	42	15	+19		
	F		3	45					
4	ZNE	iP	14	46	25			2390	Amplitudes of iP as read in mm: N E Z (-0.3) +1.3 -2.0
	ZNE	i		46	32				
	NE	eS		50	21				
	ZNE	iS		50	25				
	ZN	i		50	32				
	E	i		50	36				
	ZNE	L		52					Sea of Marmora. 40.8°N., 28.3°E. (Strasbourg)
	N	M		54	15	14	+105		
	E	M		55	13	21	-76		

SEISMOLOGICAL BULLETIN.

January 1935.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
Jan			h.	m.	s.	sec.	''	km.	
4	N	M	14	56	22	10	-100		
	E	M		56	25	15	+69		
	Z	M		57	0	10	+37		
		F	16	15					
4	ZNE	eP	16	24	59			2500	Repetition of previous shock. Sea of Marmora. 40.8°N., 29.0°E. (Strasbourg)
	Z	i		25	2				
	ZNE	iS		29	4				
	ZNE	L		31					
	E	M		33	54	17	-55		
	N	M		34	11	17	-76		
	Z	M		35	42	11	-34		
		F	17	40					
11		e	0	57					
		F	1	15					
17	ZNE	i	2	27	57				
	N	e		44	43				
	E	e		50	28				
	N	e		56	33				
	NE	eL	3	10					
	Z	eL		20					
	N	M		35	41	25	-10		
		F	4	20					
18		e	12	38					Very small
		F	13	15					
18	Z	e	18	2	23				Possibly microseismic.
	NE	e		6	4				
	ZNE	eL		8					
	N	M		12	44	16	+8		
	Z	M		12	55	16	+7		
		F		30					
19	ZNE	e	12	54	59				
	NE	eL	13	1					
	Z	eL		3					
	N	M		3	59	26	+7		
		F	14	15					
23	ZN	iP	7	35	52			8420	Amplitudes of iP as read in mm: N E Z -1.5 0.0 +2.3 Azimuth about north. Aleutian Islands. 55°N., 171°W. (Strasbourg)
	NE	iS		45	33				
	E	i		45	41				
	N	i		45	53				
	Z	i		46	27				
	NE	iSS		51	11				
	Z	e		53	50				
	N	iSSS		54	52				
	E	eLQ		56					
	ZN	eLR	8	0					
	E	M		3	56	26	+41		
	N	M		13	18	19	+43		
	N	M		15	28	19	-66		
	Z	M		15	32	19	+77		
	E	M		15	37	19	-54		
		F	10	55					

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI-TUDE,	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
Jan. 26			-	-					No records. 5h.-11h. 20m.
29			-	-					No records during adjustments. 14h. 10m.-14h. 50m.
30		e F	1	7					F.J.W. Whipple, Superintendent. 7th. Feb., 1935.
			20						

F. J. W. Whipple,
Superintendent.

FORM 3718.

SEISMOLOGICAL BULLETIN FOR February 1935.

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914)
 OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1 .	PENDULUM FREE PERIOD T .	DAMPING CONSTANT μ^2 .	$\frac{Ak}{\pi t}$
N.	5 Sept., 1934	sec. 24.7	sec. 24.5	+.01	sec ⁻¹ 46.7
E.	6 Sept., 1934	24.8	24.8	-.01	42.6
Z.	11 Sept., 1934	13.0	13.1	+.01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
 TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
 SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
Feb. 3		e F	2 25 55				
4	Z NE Z	e eL eL F	17 44 20 18 40 44 19 45				Possibly not seismic.
6		eL F	2 10 35				
7	NE N Z	eL M eL F	18 19 24 43 27 40	19	+3		
9	NE Z E	eL eL M F	20 4 12 12 45 35	20	-8		
13		e F	9 58 10 10				
22	E N ZN NE E N N E ZNE N	i i i i i i i i eL i	17 27 37 27 51 28 30 38 24 39 58 41 9 42 7 42 22 51 53 30				Confused by microseisms. large movement.

M.O.....383.....

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

March (contd).....1935..

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.		μ	km.	
Mar. 18	ZNE	e	8	46	0				
	E	i		50	29				
	ZN	i		50	37				
	NE	i		51	1				
	NE	i		51	27				
	N	i		56	52				
19		F	9	5					
	N	e	7	30	33				Felt in south-east France.
	NE	e		31	47				
	Z	M		32	41	8	+11		
20/21		F		35					
	NE	e	23	43					
	NE	eL		55					
	Z	eL	0	5					
29	N	M		43	17	25	+11		
		F	1	30					
	ZN	eL	13	45					Confused by microseisms. No "E-W" record.
	N	M		53	14	20	+7		
30	Z	M		53	47	19	+11		
		F	14	55					
	Z	e	21	32	10				
	ZNE	e		42	36				
31	NE	eL		59					
	Z	eL	22	3					
	E	M		10	23	22	-14		
	N	M		11	59	21	+23		
	Z	M		14	28	19	-18		
		F	23	0					
	Z	iP	3	25	34			2000	Emergent on horizontal components.
	NE	eS		28	57				
	ZNE	eL		30					
	N	M		31	33	15	-22		
	E	M		34	29	15	-13		
	Z	M		35	33	10	+15		
		F	4	5					
F.J.W. Whipple, Superintendent. 6th. April, 1935.									

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

EDINBURGH.

12 APR 1935

Fcl.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN FOR MARCH 1935.

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

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N.	5 Sept., 1934	^{sec.} 24.7	^{sec.} 24.5	+0.01	^{sec⁻¹} 46.7
E.	6 Sept., 1934	24.8	24.8	-0.01	42.6
Z.	11 Sept., 1934	13.0	13.1	+0.01	109.

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DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
Mar.			h. m. s.	sec.	μ	km.	
5	NE Z N	eL eL M F	10 44 48 53 59 11 30	22	+10		
5	NE Z N E Z	eL eL M M M F	22 49 55 55 42 55 52 55 54 23 15	15 15 15	+9 -8 +12		
8			- - -				No records, 5h 15m to 10h 10m
11			- - -				No records, 10h 6m to 11h 46m
12	NE Z	eL eL F	14 5 10 25				Horizontal components disturbed by wind.
14	ZNE	eL F	16 55 17 55				
14	ZN NE N N ZNE	e e e e L F	17 5 43 8 19 8 32 8 56 10 -				Not very distant. Clearly recorded by Wood-Anderson seismograph (N-S component)
15	ZNE	eL F	12 43 13 10				masked by coda of preceding shock.

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TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.

SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMP.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
April 1		e F	3 40 4 30				
3	2 NE NE N	i i i i F	11 20 44 27 45 30 10 36 28 12 5				Compression. Emergent on horizontal components. Practically no surface waves.
3		e F	12 25 13 10				} Very small.
3		e F	22 7 30				
5	2 NE	eL F	4 14 40				
5	2	eL F	9 40 45				horizontal components disturbed by wind.
11	2 NE E	eL M F	2 10 12 10 20	21	+4		confused by wind and micro-seisms.
11/12	2 2 E 2 E 2 E 2 E N 2 NE 2 N 2	iP i iPP iS e i eL i M i	23 22 27 22 35 24 4 28 36 28 50 31 15 34 41 29 42 8 42 34	26	+51	4380	Compression. Emergent on horizontal components. Trans-Caspia. (Felt in Persia.) 39°N., 55°E (Strasbourg).

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

April (contd.) 1935

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
Apr 11/12	E Z E E	i i i i F	46	9			"	km.	
			46	13					
			49	22					
			49	56					
			1	50					
12		e F	13	1					
			35						
12		e F	22	55					
			23	5					
15		e F	21	52					Possibly not seismic.
			22	0					
19	ZNE ZN ZNE ZE NE ZNE	iP i iPP i iS eL	15	28	30				Very small.
			28	38					
			28	52					
			30	54					
			32	37					
			34						
	E N N Z	M M M F	35-38			25	>+320		2525 Amplitudes of iP as read in mm:- N E Z -10.2 +6.1 -13.8 giving azimuth about 145°. Mediterranean sea near the coast of Tripoli. 32.5°N., 16°E (Strasbourg). Maxima doubtful; traces very faint and passing off upper edge of N and E records Overlapped by next shock.
			35	45		20	>+260		
			37	51		(18)	(290)		
			38-40						
			-	-	-				
19		iP	18	2	57				
		iS	7	5					
		eL	8						
	E	M	10	16		24	-8		
		F	19	35					2540 Times from Wood-Anderson seismogram. Emergent phases in the Galitzin records. Repetition of preceding shock. 32°N., 15.5°E. (Strasbourg.)
19	ZNE NE Z ZNE N E	eP iS i eL M M F	20	36	59				
			40	53					
			41	0					2360 Further repetition 32°N., 15.5°E. (Strasbourg).
			42						
			44	11		24	-25		
			44	26		22	+29		
			21	50					
20	ZNE NE Z E N ZNE N E N Z	iP eS i i i eL M M M F	5	16	8				
			20	14					2510 Dilatation. Further repetition. 32°N., 16.5°E.
			20	18					
			20	22					
			20	25					
			21						
			23	33		25	-68		
			23	48		20	+63		
			26	29		15	+52		
			29	3		11	-42		
			7	30					
20/21	Z NE E NE	eP eSKS iS eSS	22	14	52				
			25	24					10000 Destructive in northern Formosa. 25°N., 121°E. (Strasbourg.)
			25	50					
			31	32					



April (contd.) 1935.

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.				
20/21	ZNE	eL	42						
	N	M	49	59		25	-95		
	N	M	51	50		18	+135		
	E	M	51	50		18	-69		
	E	M	54	38		18	+135		
	Z	M	55	44		16	-74		
		F	0	45					
21		e	8	27					
		F	9	0					
22		e	13	45					Very small.
		F		50					
23	Z	i	16	57	11				Compression.
	NE	i	17	6	37				
	NE	e		15	27				
	ZNE	eL	22						
		F	50						
24	ZE	i	16	4	36				Compression.
	Z	e		7	32				Horizontal components
	ZNE	eL	41						disturbed by wind.
	Z	M	49	17		16	+2		
		F	17	10					
24	Z	i	19	3	51				
	NE	e		13	53				
	ZNE	eL	30						
		F	55						
26	Z	e	12	25					Very small, possibly not
		F	13	15					seismic.
27	ZE	e	19	9	16				Felt in the Azores.
	E	e		13	25				
	ZNE	eL	15						
		F	50						

F.J.W. Whipple,
Superintendent.

4th. May, 1935.

SEISMOLOGICAL BULLETIN.



From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
May, 29		e F	20	33					
			21	0					
30/31	Z	iP	21	42	14			6010	at Dilation; emergent on E-W component. Azimuth about east.
	ZE	i		42	19				
	Z	i		45	21				
	NE	iS		49	51				
	Z	i		50	5				
	N	i		50	13				
	E	i		50	22				
	E	i		53	49				
	Z	i		54	35				
	N	i		54	46				
	Z	i		57	11				
	ZNE	L		59					
	E	M	22	6	15	(20)	>350		
	N	M		12	14	(17)	>300		
	Z	M		12	14	(17)	>450		
		F							Overlapped by next shock.
31	N	eL	2	32					
	ZE	eL		36					
	N	M		37	23	21	-8		
		F	3	0					
31		e	13	28					
		F		50					
31		e	17	44					
		F	18	0					

F.J.W. Whipple,
Superintendent.
6th June, 1935.

FORM 3718.

F.J.W. Whipple,
Superintendent.
6th June, 1935.

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
May, 21	Z ZNE Z N	e eL M M F	7	12	42				
				53					
			8	9	35	20	+7		
				9	39	21	-7		
			9	30					
21		e F	12	55					Very small; possibly not seismic.
			13	5					
21		e F	14	12					
				30					
22		e F	8	57					
			9	10					
22		e F	10	28					
				35					
23	Z ZNE Z	i eL M F	18	7	13				Horizontal components disturbed by wind.
				19					
				21	9	20	+11		
			19	5					
24	Z Z N NE NE N E Z N Z	e e i e eL M M eL M M F	5	50	31				
				54	42				
				55	17				
			6	1	2				
				23					
			27	10		41	-63		
			27	34		40	-43		
			33						
			41	48		17	-31		
			41	53		15	+34		
			9	30					
24		e F	18	8					Very small; possibly not seismic.
			19	5					
25	Z ZNE Z	e eL M F	0	35	5				
				57					
			1	12	6	18	+7		
			2	10					
26	Z NE Z N Z	e eL eL M M F	22	31					
				57					
			23	2					
				8	48	20	-7		
				12	0	16	+7		
			0	0					
27	Z ZNE	e eL F	3	36					
			4	32					
			5	35					
28		e F	17	42					
			18	15					

SEISMOLOGICAL BULLETIN.

M A Y 19.35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
May 13	ZE NE NE Z N E	e e eL eL M M F	20	5	58				
				16	12				
				25					
				34					
				39	1	26	+19		
				39	26	23	-9		
			21	40					
14		e F	1	5					Very small.
				45					
14/15	Z E Z N Z E Z N N ZNE Z N	e e i i i e e i i eL M M F	23	42	41				Horizontal components disturbed by wind.
				49	59				
				51	49				
				52	33				
				52	56				
				57	48				
				58	39				
				58	41				
			0	3	11				
				9					
				22	35	21	+26		
				22	51	26	+40		
									Overlapped by next shock.
15	Z N N ZNE N Z	e e e eL M M F	2	11	7				Horizontal components disturbed by wind.
				19	13				
				22	8				
				33					
				35	35	20	-17		
				42	3	15	-12		
			3	35					
16	ZNE	eL F	17	52					
			18	15					
16	Z NE Z N	e eL eL M F	21	1	10				
				50					
				55					
			22	20	40	13	+3		
			23	10					
18	Z NE Z	e eL eL F	21	51	32				Possibly not seismic.
			22	50					
				56					
			23	10					
20	NE Z N	eL eL M F	6	16					
				25					
				31	58	20	+3		
				55					
20		e F	18	30					Very small.
				40					
21	Z ZNE	i eL F	4	33	21				Very small.
				54					
			5	15					

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.**SEISMOLOGICAL BULLETIN FOR.....M A Y.....1935.**

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914)
OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1 .	PENDULUM FREE PERIOD T .	DAMPING CONSTANT μ^2 .	$\frac{Ak}{\pi l}$
N.	5 Sept. 1934	sec. 24.7	sec. 24.5	+0.01	sec-1 46.7
E.	6 Sept. 1934	24.8	24.8	-0.01	42.6
Z.	11 Sept. 1934	13.0	13.1	+0.01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
May, 1	Z ZE NE ZNE N	eP 1 IS eL M F	h. m. s. 10 31 6 32 28 36 19 38 44 33 12 10	sec. 18	μ -17	km. 3430	Caucasus. 38°N., 43°E. (Strasbourg)
2		e F	8 29 35				Very small; possibly not seismic.
4/5	NE Z N F	eL eL M	23 48 51 59 27 0 25	17	+5		
7	NE N Z	eL M eL F	6 46 54 55 7 30	29	-7		
9		e F	5 41 50				Very small.
10		e F	17 50 18 5				
12		e F e F e F	5 48 6 15 13 0 10 20 55 21 20				Very small. Very small.

SEISMOLOGICAL BULLETIN FOR J U N E 1935.

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914)
OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1	PENDULUM FREE PERIOD T	DAMPING CONSTANT μ^2	$\frac{Ak}{\pi l}$
N.	5 Sept. 1934	^{sec.} 24.7	^{sec.} 24.5	+ .01	^{sec-1} 46.7
E.	6 Sept. 1934	24.8	24.8	- .01	42.6
Z.	11 Sept. 1934	13.0	13.1	+ .01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLI- TITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
June, 1		e F	4 52 5 20				
2	ZNE E NE ZNE N E Z	i e e eL M M M F	9 25 47 33 17 43 38 46 49 45 54 26 54 38 11 5	19 16 15	+14 -7 -0		
5	E	e F	11 53 15 12 0				Not very distant.
6		e F	12 52 14 30				Very small, possibly not seismic.
8		e F	1 25 35				Confused by wind and microseisms.
11		e F	22 28 23 0				
16		eL F	7 17 40				
18/19		e eL F	22 53 23 22 0 5				
19/20		eL F	23 24 0 20				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

J U N E 19 35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
June,									
22		e	16	33					
		F	17	55					
24/25	ZN	iPKP	23	42	30			16000	Compression.
	Z	i		43	6				
	ZN	PP		45	46				
	NE	iSS	0	4	25				
	NE	L		29					
	Z	L		36					
	N	M		40	52	28	-25		
		F	3	0					
25	Z	e	12	45	(48)				
		L	13	15					
		F	14	10					
27	-	-	-			-	-	-	No records, 09.40 to 17.52.
28	Z	e	2	19	22				
		L		58					
		F	3	40					
29	ZNE	iP	7	1	25			9560	Compression. Amplitudes of
	NE	eSKS		11	47				iP as read in mm.
	NE	iS		12	2				N .E Z
	NE	eSS		17	56				-0.3 +1.0 +3.0
		L		29					giving azimuth about 287°.
	E	M		38	56	16	+91		Epicentre near 14°N, 101° W.
	Z	M		39	6	16	-94		Acapulco Deep.
	N	M		39	11	16	-39		
		F	9	30					

F.W.J. Whipple,
Superintendent.
5th July, 1935.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR.....J.U.L.Y.,.....1935.



Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T ₁ .	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ ² .	$\frac{Ak}{\pi l}$
N.	5 Sept. 1934	24. ^{sec.} 7	24. ^{sec.} 5	+01	46. ^{sec-1} 7
E.	6 Sept. 1934	24.8	24.8	-01	42.6
Z.	11 Sept. 1934	13.0	13.1	+01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLI-TUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
July, 5	Z	iP	18 1 31			5470	Compression.
	Z	ePP	3 32				
	N	eS	8 39				
	E	eSS	12 11				
	N	L	17.5				
	Z	L	21.3				
	Z	M	25 18	15	+27		
	N	M	25 22	17	+22		
	E	M	25 23	18	+27		
		F	19 20				
6		eL	4 9				
		F	15				
6		eL	22 58				
		F	23 10				
7	Z	e(P)	13 36 25			(9630)	
	NE	e(S)	47 6				
	NE	L	14 10				
	E	M	23 0	15	+10		
		F	15 0				
9		eL	7 30				
		F	8 0				
9	Z	e	12 39 11				
	NE	e	45 55				
	NE	L	13 11				
		F	14 15				
11		eL	9 7				
		F	45				

SEISMOLOGICAL BULLETIN.

J U L Y . 19 35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
July, 11		eL F	14	23			μ	km.	
				45					
12		eL F	2	12					
				40					
15	Z Z	i e F	14	32	21				
				34	39				
				40					
15		eL F	18	42					
				55					
16	Z E NE E	iP eS L M F	16	31	52			9790	Compression. Destructive in Formosa.
				42	41				
			17	4		19	+21		
				11	33				
			18	0					
17		eL F	0	12					
				25					
17		eL F	1	4					
				40					
17	Z NE NE	e e(SS) L F	4	41					
				48	41				
				57					
			5	50					
17	Z N NE N	e e L M F	11	5	30				Horizontal components disturbed by wind.
				14	50				
				38					
				47					
			13	40					
19	Z ZNE Z E N E N N NE Z E Z N	eP iP ePP eSKS e iS ePS eSS L L M M M F	1	2	28			9620	
				2	34				
				5	55				
				12	55				
				13	6				
				13	9				
				14	8				
				19.3					
				28					
				34					
				35	4	30	+50		
				44	38	18	+45		
				44	56	18	-44		
			3	40					



SEISMOLOGICAL BULLETIN.

J U L Y . 19 35

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	"	km.	
July, 23		eL F	4	26					
			5	10					
26	Z NE N	e e L F	4	55	33				Very small.
			5	5	(25)				
			17						
			50						
26	Z NE	e L F	11	1					
				6					
			12	5					
29	Z Z E Z ZNE Z N	iP i i i e i e F	7	57	44				Long waves indefinite.
					49				
					56				
				59	42				
			8	0	38				
				1	29				
			8	11	0				
			10	44					
29	NE Z	L L F	23	45					
				49					
			24	0					
30	NE Z	L L F	6	38					
				53					
			7	20					

F.J.W. Whipple,
Superintendent,
5th August, 1935.

SEISMOLOGICAL BULLETIN.



From the ISC collection scanned by SISMO5

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	"	km.	
August,									
4	E NE	e L F	2	47	7.				*
			3	10					
				30					
6	NE	eL F	0	39					*
			1	50					
7	NE	eL F	9	43					*
			10	5					
10		eL F	18	25					
			19	0					
17	Z ZN Z ZN E E E N Z N E	ePKP ePP iPPP eSKSP eSS eSSS L L M M M F	2	4	23.			17000	
				8	7.				
				11	34.				
				18	23.				
				27	26.				
				33	15.				
				48					
				53					
			3	9	45.	20	-56		
				10	10.	21	-50		
				10	27.	23	+43		
			5	45					
17		eL F	21	20					
				35					
20	ZNE NE	e L F	9	3	53.				Very small and not very distant.
				7	30.				
				20					
21	Z Z Z	e L F	14	8	7.				Very distant.
			15	4					Horizontal components dis-
			16	25					turbed by wind.
22		L F	20	48					)
			21	25					)
23		eL F	14	53					) Earlier phases masked
			16	10					) by microseisms.
									)
25	Z	e L F	5	14					
				20					
			6	15					
25		eL F	21	16					
			22	0					
26		eL F	17	18					
			18	5					
27		eL F	6	9					
				25					

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.				
August 29	Z	e F	11	24					
				35					
31		eL F	18	24					
			19	20					

F.J. Scrase,
Officer-in-Charge,
4th September, 1935.



Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914)
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N.	5 Sept. 1934	sec. 24.7	sec. 24.5	+0.01	sec ⁻¹ 46.7
E.	6 Sept. 1934	24.8	24.8	-0.01	42.6
Z.	11 Sept. 1934	13.0	13.1	+0.01	109.

TIME SERVICE: MINUTE TIME MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLI-TUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
Sept. 2		eL F	8 25 40				
2		eL F	11 48 12 5				
2	Z Z N	e e e F	17 39 52 43 36 47 0 18 0				Small.
4	Z E	e e F	1 38 10 46 42 - - -				Overlapped by next shock.
4	ZE ZE Z NE NE Z NE N E Z NE	eP iP iPP iSKS iS iPS L M M M L F	1 50 42 50 44 54 22 2 1 9 1 34 2 39 20 36 14 36 15 36 18 4 14 5 10			9860	Azimuth about north. Epicentre probably under N. Pacific Ocean.
				18 16 15	+110 +100 -125		Via antipodes.



SEISMOLOGICAL BULLETIN.

SEPTEMBER, 19 35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.				
Sept. 9	Z	i	6	37	10				
	NE	e	7	4	13				
	NE	L		7					
	N	M		17	33	24	+54		
	E	M		18	18	23	-56		
	Z	M		28	4	19	-17		
		F	9	10					
11		eL	13	10					
		F	14	5					
11	ZNE	iP	14	16	16			8960	Amplitudes of iP as read in mm. N E Z -4.7 -1.8 +14.2 Azimuth 23°, giving epi- centre - 43°N, 146°E; near Northern Japan.
	NE	iPP		19	22				
	N	ePPP		21	44				
	ZNE	iS		26	24				
	Z	i		27	13				
	N	eSS		32	48				
	NE	L		40.1					
	Z	L		46					
	Z	M		50	30	27	+250		
	N	M		50	39	26	+290		
	E	M		55	42	20	+175		
		F	18	30					
14		eL	21	32					
		F		40					
15		eL	4	30					
		F		40					
15		eL	12	19					
		F	13	25					
15		eL	15	8					
		F	17	0					
18	Z N E	i	5	9	34				
		e		19	45				
		L		36					
		F	6	10					
18		eL	9	7					
		F		30					
18		eL	20	57					
		F	21	10					
19		eL	3	34					) Confused by wind and) microseisms.))
		F	4	15					

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	
			h.	m.	s.				
Sept. 20	Z	(e)	2	5	54			13800	Confused by microseisms. Azimuth about NE. Bombay gives 1P at 01.58.02, 1S at 02.07.23. Epicentre about 4°S, 144°E, near New Guinea.
	ZN	ePP		7	35				
	E	iPP		7	42				
	Z	i		8	13				
	NE	iSKKS		14	33				
	NE	ePKKP		15	29				
	ZNE	iPS		17	29				
	NE	ePKKS		19	16				
	NE	iSS		24	24				
	E	e		33	49				
	NE	e		37.1					
	NE	L		39.6					
	Z	L		52.7					
	N	M		49	51	30	+480*		
	E	M		50	6	27	+500*		
	Z	M	3	2	48	20	-200		
		F	5	40					
20	ZE	ePP	5	43	47			13800	Probably a repetition of the New Guinea shock of 20d. 2h.
	Z	ePPP		46	23				
	E	eSKKS		50	44				
	NE	iPS		53	42				
	E	e		53	47				
	Z	ePKKS		55	28				
	NE	eSS	6	0	31				
	E	eSSS		6	18				
	NE	e		14	7				
	NE	L		17.3					
	Z	L		26					
	E	M		31	2	19	-49		
	N	M		31	27	21	+64		
	Z	M		39	41	18	+52		
		F	8	20					
20	E	e	21	34	7				No N record.
	ZE	L	22	6					
		F	23	15					
23	Z	(eP)	9	33	(52)			13800	Confused by microseisms. Probably a repetition of the New Guinea shock of 20d. 2h.
	Z	ePKP		37	14				
	Z	PP		38	56				
	Z	PPP		41	32				
	NE	eSKKS		45	54				
	NE	ePS		48	52				
	Z	e		50	14				
	NE	e	10	9	26				
	NE	L		12					
	Z	L		15					
	Z	M		33	25	22	-22		
		F	12	10					
24		eL	6	10					
		F		35					

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1935.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	"	km.	
Sept. 24	Z	eP	22	23	41			7780	Dilatation. Azimuth about north. Epicentre probably under the Bering Sea.
	N	eS		32	50				
	E	L		45					
		M		55					
		F	23	55					
25	Z	e(PP)	10	40	20				May be a repetition of then New Guinea shock of 20d. 2h.
	Z	e(PPP)		42	56				
	NE	L	11	19					
	Z	L		25					
		M		34					
		F	12	15					
26/27		eL	23	45					
		F	0	25					
28	N	iP	16	19	53			660	Readings from experimental Wood-Anderson seismogram. Felt around Bordeaux.
	N	iPg		20	24				
	N	iS		21	0				
	N	i		21	24				
		F		26					
29		eL	6	34					
		F	7	20					
(sgd) F.J.W. Whipple, Superintendent, 7th October, 1935.									

FORM 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER 1935.

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" LEIPZIG, 1914.
OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1 .	PENDULUM FREE PERIOD T .	DAMPING CONSTANT μ^2 .	$\frac{Ak}{\pi l}$
N.	5 Sept. 1934	sec. 24.7	sec. 24.5	+0.01	sec-1 46.7
E.	6 Sept. 1934	24.8	24.8	-0.01	42.6
Z.	11 Sept. 1934	13.0	13.1	+0.01	109.

TIME SERVICE: MINUTE TIME MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOLOGIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
Oct.			h. m. s.	sec.	μ	km.	
1		eL F	11 45 12 0				
2	ZN Z NE N* N Z N	iP iPcP iS iPS L L M F	5 45 11 45 25 55 17 55 51 6 11.4 19 19 34 50	27	+34	8910	Dilatation. Amplitudes of iP as read in mm. N E Z -1.3 0 +4.5 Azimuth .0°, giving epi- centre near 48°N, 180°E; Aleutian Islands. *Wood-Anderson record.
6	Z	e L F	4 46 6 3 25				
6		eL F	15 23 35				
7		eL F	5 39 6 30				
8	Z N N	(e) L M F	9 39 21 42 47 16 10 40	25	+56		S lost during change of charts.
9	ZE ZE E NE Z	eP iS L L M F	22 12 42 16 3 14.6 17.0 19 27 23 10	12	-21	1980	Dilatation. Felt in S.W. Iceland.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.				
Oct. 10		eL F	21	12					
				20					
11/12	Z	e(P)	22	36	46			(8650)	
	E	e(S)		46	39				
	NE	L	23	12					
	Z	L		18					
	Z	M		30	51	19	+21		
		F	1	0					
12	Z	eP	16	57	53			9560	
	Z	iP		57	55				
	Z	iPP	17	1	8				
	Z	i		1	30				
	E	eSKS		8	11				small.
	NE	iS		8	31				large.
	N	ePS		9	18				
	E	iSS		13	49				
	E	eSSS		17	7				
	NE	L		24					
	Z	L		27.2					
	N	M		34	40	21	+120		
	E	M		35	10	20	+130		
	Z	M		36	29	23	-120		
		L	19	0					Via antipodes.
		F		50					
13		eL	2	41					
		F	3	25					
13		eL	19	51					
		F	20	0					
14		eL	10	36					
		F		50					
14		eL	20	47					
		F	21	0					
18	Z	iP	0	24	32			9430	Compression.
	Z	iPP		27	44				Azimuth, from long waves,
	E	eSKS		34	54				about 25°. Near Northern
	E	iS		35	4				Japan.
	E	iPS		35	30				
	NE	iSS		40	22				
	E	eSS		43	41				
	NE	L		50					
	Z	L		56.5					
	N	M	1	0	8	20	-105		
	E	M		0	8	20	+140		
	Z	M		5	29	19	+67		
		F	3	10					

SEISMOLOGICAL BULLETIN.

OCTOBER 19 35

DATE.	COMPT.	PHASE.	G.M.T			PERIOD.	AMPLI-TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	"	km.	
Oct. 18	NEZ	iPP	11	24	15			12100	
	N	eSKS		30	38				
	Z	e(S)		32	43				
	NE	ePS		33	48				
	NE	iSS		39	30				
	E	L		55					
	Z	L	12	0					
	E	M		10	24	19	+20		
		F	13	35					
18	Z	eP	15	6	21			9430	Probably a repetition of the shock at 0h.
	NE	eSKS		16	44				
	E	iS		16	53				
	E	L		34					
	Z	L		41					
	E	M		42	21	20	+34		
		F	16	40					
22	N	e	7	42	10				Very small.
	Z	L	8	22					
		F	9	20					
23		eL	14	8					
		F		15					
25		eL	1	14					
		F	2	0					
31	Z	eL	19	12					Horizontal components dis-
		F		30					

(sgd) F.J.W. Whipple.
Superintendent,
6th November, 1935.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER 19 35.



Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T ₁ .	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ ² .	$\frac{Ak}{\pi l}$
N.	5 Sept. 1934	sec. 24.7	sec. 24.5	+ .01	sec ⁻¹ 46.7
E.	6 Sept. 1934	24.8	24.8	- .01	42.6
Z.	11 Sept. 1934	13.0	13.1	+ .01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON);
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
Nov. 1	Z E E N EZ E Z	iP eS iSS eL iL M M F	6	12	27			5590	Dilatation. Felt in Eastern Canada and U.S.A. 46°N, 80°W. (U.S.C.G.S.) } May be due to wind } disturbance.
				19	41				
				23	19				
				25					
				27	31				
				31	8	18	-37		
				31	21	18	+39		
			7	15					
1	Z NE NE E NE Z N	e e e e L L M F	16	36					
				40	10				
				44	42				
				53	46				
			17	2					
				9					
				9	52	19	-39		
			18	5					
5		eL F	21 22	48 25					
7	Z E N N	eP eS L M F	4	41	39			1990	
				45	1				
				46.2					
				47	35	15	-9		
			5	0					
10		eL F	18 19	46 50					
11		eL F	14 15	20 0					

SEISMOLOGICAL BULLETIN.



From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.				
NOV.									
14		eL F	20 21	56 30					Confused by wind disturbance.
16		eL F	0	28 45					))) Not very distant.))
16		eL F	6 7	50 5					
23		eL F	8	33 45					
25	Z Z E N NE Z N	iP iPP eSKS iS L L M F	10 11 12	15 19 26 26 46 54 3 0	55 26 21 35	18	+12	9640	Dilatation.
28	Z	e F	13	17 20					
30	Z E E E E	eP eS ePS L M F	3 4 5	51 1 1 18.5 21 10	36 16 38	20	-16	8390	Felt at Dhubri, Assam. Confused by microseisms.

(sgd) F.J.W. Whipple,

Superintendent.
4th December, 1935.



SEISMOLOGICAL BULLETIN.

DECEMBER. 19 35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ km.	REMARKS.
			h.	m.	s.	sec.	μ		
Dec. 14/15	ZE	iP	22	17	30			8890	Compression. Emergent on "N-S" component.)) Large movements.)
	Z	i		17	35				
	E	iS		27	35				
	ZNE	ePS		28	13				
	E	i		29	17				
	E	i		29	38				
	E	iSS		33	12				
	E	eSSS		36	11				
	N	i		38	53				
	ZNE	eL		41					
	N	M		51	0	20	-75		
	Z	M		54	38	17	+185		
	E	M		54	38	17	+185		
		F		1	15				
15	ZNE	ePKP	7	27	11			15000	Felt in Solomon Islands. 12°S., 161°E. (U.S.C.G.S.)
	Z	iSKP		30	33				
	N	iSS		48	22				
	E	iSSP		48	32				
	N	i		49	51				
	NE	iSSS		53	8				
	NE	eL		57					
	Z	eL	8	9					
	E	M		13	2	36	+185		
	E	M		17	15	28	-130		
	Z	M		22	30	25	-110		
	N	M		22	40	24	-155		
		F		11	5				
16	NE	i	17	18	32				Clearly shown by Wood- Anderson seismograph. Very small. No "Z" record.
		F		35					
17	ZN	ePP	19	31	14			13700	
	NE	ePS		41	30				
	ZN	e		41	48				
	N	iSS		47	58				
	NE	L		58					
	N	M	20	3	37	39	-105		
	Z	L		4					
	E	M		5	37	31	-89		
	N	M		6	23	29	-91		
	Z	M		17	24	17	-52		
		F		22	5				
18	ZNE	e	7	41					
	NE	L		48					
	N	M		51	5	28	+13		
	E	M		51	34	30	-13		
	Z	L		53					
		F		8	35				
18		e	17	39					
		F		18	5				
20		e	0	55					Possibly not seismic.
		F		1	5				

M.O. 383

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 19 35.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
Dec. 20	ZN N Z N N Z	e L L M M M F	13 59 1 19 41 46 46 22 59 59 20 0 4 21 10			28 20 20	-10 +8 -8		No "E-W" record.
21	ZNE	eL F	12 32 13 0						
23	ZNE	eL F	15 30 45						
24	Z NE NE Z E	e e L L M F	12 36 25 46 45 58 13 1 5 8 14 5			26	+8		Confused by microseisms.
28	ZE ZNE ZNE ZE ZE Z E NE N ZE N N N ZE N ZE N N Z N ZNE N N E N Z E	1P i iPP iPPP i i iSKS iS i i i iSS i i i i(SSSS) iPPP i L M M M M M F	2 48 56 49 5 52 55 54 57 56 57 58 28 59 39 59 55 3 0 3 1 35 3 42 5 55 6 46 7 36 10 35 10 38 12 23 14 37 15 13 18 19 24 22 7 26 2 30 6 35 17 35 48 7 30					10020	Amplitudes as read in mm :- N. E. Z. (0.0) -1.2 +1.7 +1.3 +6.8 -12.7 Azimuth about 80°. Near Northern Sumatra.
									By path > 180°.
									*Not completely recorded.
28	e F		19 38 50						
29	e F		4 39 55						Very small.

FORM 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 1935.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
Dec. 30	ZNE	e	0	7	57	24	-8		Disturbed by wind and microseisms.
	NE	eL		38					
	Z	eL		45					
	E	M		48	53				
		F		2	0				
30	N	i	3	10	46				))) Readings from experimental) Wood-Anderson seismogram;) very small on Galitzin rec-) ords.) Confused by microseisms.) Southern Germany.))
	N	i		11	4				
	N	i		11	22				
		F		13					
30	N	i	3	38	36				
	N	i		39	28				
	N	i		39	35				
	N	i		40	9				
		F		42					
(sgd) F.J.W. Whipple, Superintendent, 3rd January, 1936.									