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M.O. 383

KEW OBSERVATORY 14 FEB 1935 RICHMOND, SURREY

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Jan.									
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.
	NE	iS		9	43				
	ZNE	eSSS		16	52				
	ZNE	i		17	10				Tibet. 31.5°N., 88°E. (Strasbourg.)
	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				Sea of Marmora. 40.8°N., 28.3°E. (Strasbourg)
	ZNE	L		52					
	N	M		54	15	14	+105		
	E	M		55	13	21	-76		

FORM 3717.
50 W8036/1002-35 GR928.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. January 1935.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Jan							
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.
	Z	i	25 2				Sea of Marmora.
	ZNE	iS	29 4				40.8°N., 29.0°E.(Strasbo
	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
	NE	iS	45 33				mm: N E Z
	E	i	45 41				-1.5 0.0 +2.
	N	i	45 53				
	Z	i	46 27				Azimuth about north.
	NE	iSS	51 11				
	Z	e	53 50				Aleutian Islands.
	N	iSSS	54 52				55°N., 171°W. (Strasbour
	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				

FORM 3718.

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M.O. 383

2401/20

3

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

January, 1935.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE,	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	1 7				
		F	20				

F.J.W. Whipple,
Superintendent.

7th. Feb., 1935.

FORM 3718.

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M.O. 383

KEW OBSERVATORY 12 MAR 1935 RICHMOND, SURREY

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec-1
N.	5 Sept., 1934	24.7	24.5	+.01	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.	AMPLITUDE.	Δ	REMARKS.
Feb.			h. m. s.	sec.	μ	km.	
3		e	2 25				
		F	55				
4	Z	e	17 44 20				Possibly not seismic.
	NE	eL	18 40				
	Z	eL	44				
		F	19 45				
6		eL	2 10				
		F	35				
7	NE	eL	18 19				
	N	M	24 43	19	+3		
	Z	eL	27				
		F	40				
9	NE	eL	20 4				
	Z	eL	12				
	E	M	12 45	20	-8		
		F	35				
13		e	9 58				
		F	10 10				
22	E	i	17 27 37				Confused by microseisms.
	N	i	27 51				
	ZN	i	28 30				
	NE	i	38 24				
	E	i	39 58				
	N	i	41 9				
	N	i	42 7				
	E	i	42 22				
	ZNE	eL	51				
	N	i	53 30				large movement.

FORM 8717.
[illegible].8038.100.3.35.0,.923

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

February (contd 1935.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Feb. 22 (contd)	N	M	17	59	19	18	-39		
	E	M	18	6	1	17	-41		
	Z	M		9	43	16	+35		
		F	20	0					
25	ZNE	iP	2	56	34			2540	Dilatation. Azimuth about south-east.
	ZN	i		56	58				Destructive in Crete.
	E	e	3	0	42				35.5°N., 24°E. (Strasbourg).
	NE	iS		0	49				
	NE	i		1	10				
	NE	L		3	26				
	N	M		5	3	19	+63		
	Z	M		5	14	9	+18		
		F		30					
26			10	4	to				No records.
			12	48					

F.J.W. Whipple,
Superintendent.

6th. March, 1935.

FORM 3718.

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M.O. 383

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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.

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

KEW OBSERVATORY
1/4/35
RICHMOND, SURREY

FORM 3717.
2,606 9,1004-35.C.923.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

March (contd) 1935.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
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				
		F	9	5					
19	N	e	7	30	33				
	NE	e		31	47				Felt in south-east France.
	Z	M		32	41	8	+11		
		F		35					
21	NE	e	23	43					
	NE	eL		55					
	Z	eL	0	5					
	N	M		43	17	25	+11		
		F	1	30					
29	ZN	eL	13	45					
	N	M		53	14	20	+7		Confused by microseisms.
	Z	M		53	47	19	+11		No "E-W" record.
		F	14	55					
30	Z	e	21	32	10				
	ZNE	e		42	36				
	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					
31	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.

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OBSERVATORY
11 MAY 1935
RICHMOND SURREY

M.O. 383.....

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL 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.	$\frac{Ak}{ml}$
		sec.	sec.		sec^{-1}
N.	5 Sept., 1934	24.7	24.5	+.01	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.	AMPLITUDE.	Δ	REMARKS.
April			h. m. s.	sec.	μ	km.	
1		e	3 40				
		F	4 30				
3	Z	i	11 20 44				Compression. Emergent on horizontal components. Practically no surface waves.
	NE	i	27 45				
	NE	i	30 10				
	N	i	36 28				
		F	12 5				
3		e	12 25				} Very small.
		F	13 10				
3		e	22 7				
		F	30				
5	ZNE	eL	4 14				
		F	40				
5	Z	eL	9 40				horizontal components disturbed by wind.
		F	45				
11	ZNE	eL	2 10				
	E	M	12 10	21	+4		confused by wind and micro-seisms.
		F	20				
11/12	Z	iP	23 22 27			4380	Compression. Emergent on horizontal components. Trans-Caspia. (Felt in Persia.) 39°N., 55°E (Strasbourg).
	ZE	i	22 35				
	ZE	iPP	24 4				
	NE	iS	28 36				
	NE	e	28 50				
	N	i	31 15				
	ZNE	eL	34				
	Z	i	41 29				
	N	M	42 8	26	+51		
	Z	i	42 34				

FORM 3717.
H.822.8089.100.5.35&p.923

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

April (contd.) 1935

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

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

April (contd.) 1935.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
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.

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KEW OBSERVATORY
15 JUN 1935
RICHMOND, SURREY

No. 383

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

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

FORM 3717.

H 533.W.8009.100.6/35.Cp.928.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY. ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1935.

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

FORM 3718.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MAY 1935.

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

FORM 3718.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1935.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
May, 29		e	20 33				
		F	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				

Quetta

F.J.W. Whipple,

Superintendent.
6th June, 1935.

FORM 3718.

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M.O. 383

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

Clk Rm

KEW OBSERVATORY

15 JUL 1935

RICHMOND, SURREY

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE 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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	5 Sept. 1934	24.7	24.5	+.01	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. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
June,							
1		e	4 52				
		F	5 20				
2	ZNE	i	9 25 47				
	E	e	33 17				
	NE	e	43 38				
	ZNE	eL	46				
	N	M	49 45	19	+14		
	E	M	54 26	16	-7		
	Z	M	54 38	15	-9		
		F	11 5				
5	E	e	11 53 15				Not very distant.
		F	12 0				
6		e	12 52				Very small, possibly not seismic.
		F	14 30				
8		e	1 25				Confused by wind and microseisms.
		F	35				
11		e	22 28				
		F	23 0				
16		eL	7 17				
		F	40				
18/19		e	22 53				
		eL	23 22				
		F	0 5				
19/20		eL	23 24				
		F	0 20				

FORM 3717.

H.542.8069.100.7.35.Cp923.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE 1935.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
June,			h. m. s.	sec.	μ	km.	
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 iP as read in mm.
	NE	eSKS	11 47				N .E Z
	NE	iS	12 2				-0.3 +1.0 +3.0
	NE	eSS	17 56				giving azimuth about 287°.
		L	29				Epicentre near 14°N, 101° W.
	E	M	38 56	16	+91		Acapulco Deep.
	Z	M	39 6	16	-94		
	N	M	39 11	16	-39		
		F	9 30				

F.W.J. Whipple,

Superintendent.
5th July, 1935.

FORM 3718.

H.542.8069.100.7.35.Cp.923.

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M.O. 383.

AIR MINISTRY, METEOROLOGICAL OFFICE. LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY, 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. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
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					
	N	M		25	18	15	+27		
	E	M		25	22	17	+22		
		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					

KEW OBSERVATORY
14 AUG 1935
RICHMOND, SURREY

FORM 3717.

H.555. W.8089. 100. 8/35. G.p. 923.

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M.O. 383.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY, 19

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

FORM 3718.

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M.O. 383.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY 1935

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

F.J.W. Whipple,

Superintendent,
5th August, 1935.

FORM 3718.

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M.O. 38[illegible]

KEW OBSERVATORY 13 SEP 1935 RICHMOND, SURREY

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST, 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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec-1
N.	5 Sept. 1934	24.7	24.5	+.01	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.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
August,							
1	Z	e	14 20 28.				Confused by microseisms.
	Z	e	24 40.				
	Z	e	33 37.				
	ZNE	L	15 0				
		F	45				
1	Z	eP	16 20 25.			8700	Near Pacific Coast of Costa Rica; 10°N, 86°W, (U.S.C.G.S.).
	E	eS	30 20.				
	N	L	42				
	E	M	54				
		F	17 45				
3	NE	eP	1 23 8.			9710	Near Sumatra. Bombay gives iP at 01.15.50, iS at 01.20.28.
	E	iSKS	33 37.				
	N	eS	33 53.				
	NE	i	34 3.				
	N	e	34 37.				
	N	L	52				*
	N	M	2 1 11.	25	+81		
	E	M	8 46.	20	+82		
		F	5 20				
3	NE	e	5 40 22				*
		L	44.4				
		F	6 10				
3	NE	eL	12 39				*
		F	13 25				
3	NE	eL	13 57				*
		F	14 10				

* No Z component record.

FORM 3717.
H.S78.W8080 .100.9.35.923

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1935.

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

FORM 3718.

* No Z component record.

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

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

....AUGUST,.....19.35..

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

F.J. Scrase,

Officer-in-Charge,
4th September, 1935.

FORM 3718.

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M.O. 383

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

bek

SEISMOLOGICAL BULLETIN FOR 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) 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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec⁻¹
N.	5 Sept. 1934	24.7	24.5	+.01	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.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
Sept.							
2		eL	8 25				
		F	40				
3		eL	11 48				
		F	12 5				
3	Z	e	17 39 52				Small.
	Z	e	43 36				
	N	e	47 0				
		F	18 0				
4	Z	e	1 38 10				
	E	e	46 42				
		F	- - -				Overlapped by next shock.
4	ZE	eP	1 50 42			9860	Azimuth about north.
	ZE	iP	50 44				Epicentre probably under
	Z	iPP	54 22				N. Pacific Ocean.
	NE	iSKS	2 1 9				
	NE	iS	1 34				
	Z	iPS	2 39				
	NE	L	20				
	N	M	36 14	18	+110		
	E	M	36 15	16	+100		
	Z	M	36 18	15	-125		
	NE	L	4 14				Via antipodes.
		F	5 10				

KEW OBSERVATORY
15 OCT 1935
RICHMOND, SURREY

FORM 3717.

W.8089.100.1.36.Gp.923.

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	17	33	24	+54		
	18	18	23	-56		
	28	4	19	-17		
9	10					
13	10					
14	5					
14	16	16			8960	Amplitudes of iP as re in mm. N E Z -4.7 -1.8 +14.2 Azimuth 23°, giving ep centre - 43°N, 146°E; Northern Japan.
	19	22				
	21	44				
	26	24				
	27	13				
	32	48				
	40.1					
	46					
	50	30	27	+250		
	50	39	26	+290		
	55	42	20	+175		
18	30					
21	32					
	40					
4	30					
	40					
12	19					
13	25					
15	8					
17	0					
5	9	34				
	19	45				
	36					
6	10					
9	7					
	30					
20	57				)	
21	10				)	
					)	Confused by wind and
3	34				)	microseisms.
4	15				)	

	Z	i		8	1
	NE	iSKKS		14	3
	NE	ePKKP		15	2
	ZNE	iPS		17	2
	NE	ePKKS		19	1
	NE	iSS		24	2
	E	e		33	4
	NE	e		37.1	
	NE	L		39.6	
	Z	L		52.7	
	N	M		49	5
	E	M		50	
	Z	M	3	2	4
		F	5	40	
20	ZE	ePP	5	43	4
	Z	ePPP		46	2
	E	eSKKS		50	4
	NE	iPS		53	4
	E	e		53	4
	Z	ePKKS		55	2
	NE	eSS	6	0	3
	E	eSSS		6	1
	NE	e		14	
	NE	L		17.3	
	Z	L		26	
	E	M		31	
	N	M		31	2
	Z	M		39	4
		F	8	20	
20	E	e	21	34	7
	ZE	L	22	6	
		F	23	15	
23	Z	(eP)	9	33	(5
	Z	ePKP		37	1
	Z	PP		38	5
	Z	PPP		41	3
	NE	eSKKS		45	5
	NE	ePS		48	5
	Z	e		50	1
	NE	e	10	9	2
	NE	L		12	
	Z	L		15	
	Z	M		33	2
		F	12	10	
24		eL	6	10	
		F		35	

FORM 3718.

100.3.38.Gp.923.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. ....SEPTEMBER,.....1935..

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Sept. 20	Z	(e)	2	5	54			13800	Confused by microseisms.
	ZN	ePP		7	35				Azimuth about NE.
	E	iPP		7	42				Bombay gives iP at 01.58.02,
	Z	i		8	13				iS at 02.07.23.
	NE	iSKKS		14	33				Epicentre about 4°S, 144°E,
	NE	ePKKP		15	29				near New Guinea.
	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*		* By extrapolation.
	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
	Z	ePPP		46	23				the New Guinea shock of
	E	eSKKS		50	44				20d. 2h.
	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.
	Z	ePKP		37	14				Probably a repetition of
	Z	PP		38	56				the New Guinea shock of
	Z	PPP		41	32				20d. 2h.
	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					

FORM 3718.

W.3068.100.1.36.Gp.923.

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55					the Bering Sea.
40	20				May be a repetition of
42	56				thenNew Guinea shock of
19					20d. 2h.
25					
34					
15					
45					
25					
19	53			660	Readings from experimen
20	24				Wood-Anderson seismogra
21	0				Felt around Bordeaux.
21	24				
26					
34					
20					

(sgd) F.J.W. Whipple,

Superintendent,
7th October, 1935

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M.O. 383

KEW OBSERVATORY 12 NOV 1935 RICHMOND SURREY

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	5 Sept. 1934	24.7	24.5	+.01	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.
Oct.			h. m. s.	sec.	μ	km.	
1		eL	11 45				
		F	12 0				
2	ZN	iP	5 45 11			8910	Dilatation. Amplitudes of iP as read in mm. N E Z -1.3 0 +4.5 Azimuth .0°, giving epicentre near 48°N, 180°E; Aleutian Islands. *Wood-Anderson record.
	Z	iPcP	45 25				
	NE	iS	55 17				
	N*	iPS	55 51				
	N	L	6 11.4				
	Z	L	19				
	N	M	19 34	27	+34		
		F	50				
6	Z	e	4 46				
		L	6 3				
		F	25				
6		eL	15 23				
		F	35				
7		eL	5 39				
		F	6 30				
8	Z	(e)	9 39 21				S lost during change of charts.
	N	L	42				
	N	M	47 16	25	+56		
		F	10 40				
9	ZE	eP	22 12 42			1980	Dilatation. Felt in S.W. Iceland.
	ZE	iS	16 3				
	E	L	14.6				
	NZ	L	17.0				
	Z	M	19 27	12	-21		
		F	23 10				

FORM 3717.
[illegible]8089.100.11.35.Gp.923.

[illegible]8089.100.1.36.Gp.923.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER 1935

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Oct.									
10		eL	21	12					
		F		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					

FORM 3718.

W.2069.100.1.36.Gp.923.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER 1935.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
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 disturbed by wind.
		F		30					

(sgd) F.J.W. Whipple.

Superintendent,
6th November, 1935.

FORM 3718.

[illegible] 100.1.36.Gp.923.

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M.O. 383

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

CER.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER 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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec-1
N.	5 Sept. 1934	24.7	24.5	+.01	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. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Nov.									
1	Z	iP	6	12	27			5590	Dilatation.
	E	eS		19	41				Felt in Eastern Canada
	E	iSS		23	19				and U.S.A.
	N	eL		25					46°N, 80°W. (U.S.C.G.S.)
	EZ	iL		27	31				
	E	M		31	8	18	-37		
	Z	M		31	21	18	+39		
		F	7	15					
1	Z	e	16	36					
	NE	e		40	10				) May be due to wind
	NE	e		44	42				) disturbance.
	E	e		53	46				
	NE	L	17	2					
	Z	L		9					
	N	M		9	52	19	-39		
		F	18	5					
5		eL	21	48					
		F	22	25					
7	Z	eP	4	41	39			1990	
	E	eS		45	1				
	N	L		46.2					
	N	M		47	35	15	-9		
		F	5	0					
10		eL	18	46					
		F	19	50					
11		eL	14	20					
		F	15	0					

KEW OBSERVATORY
10 DEC 1935
RICHMOND, SURREY

FORM 3717.

H612, W8089, 100, 11/35 G.923.

W8089.100.1.36.Gp.923.

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M.O. 383

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. NOVEMBER, 1935.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Nov.									
14		eL	20	56					Confused by wind disturbance.
		F	21	30					
16		eL	0	28					)
		F		45					)
									) Not very distant.
16		eL	6	50					)
		F	7	5					)
23		eL	8	33					
		F		45					
25	Z	iP	10	15	55			9640	Dilatation.
	Z	iPP		19	26				
	E	eSKS		26	21				
	N	iS		26	35				
	NE	L		46					
	Z	L		54					
	N	M	11	3	24	18	+12		
		F	12	0					
28	Z	e	13	17					
		F		20					
30	Z	eP	3	51	36			8390	Felt at Dhubri, Assam.
	E	eS	4	1	16				Confused by microseisms.
	E	ePS		1	38				
	E	L		18.5					
	E	M		21	1	20	-16		
		F	5	10					

(sgd) F.J.W. Whipple,

Superintendent.
4th December, 1935.

FORM 3718.

8089.100.1.36.Gp.923.

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M.O. 383

ER

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER 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.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	5 Sept. 1934	24.7	24.5	+.01	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.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
Dec. 2	NE	eL	0 31				Confused by microseisms.
	Z	eL	35				
	N	M	36 9	17	-8		
		F	50				
2	N	eL	17 33				No records of "Z" and "E-W" components. Confused by microseisms.
	N	M	40 3	17	+7		
		F	55				
5	N	e	18 53 12				
	NE	eL	19 2				
	Z	eL	8				
	N	M	16 1	20	-6		
		F	20 5				
9	ZNE	eL	9 1				
	Z	M	5 33	19	-7		
		F	35				
14	Z	i	1 42 47				)Emergent on horizontal) components.
	Z	i	45 2				
	Z	e	46 8				
	NE	i	52 12				
	ZNE	i	52 33				Large on "N-S" component.
	ZNE	e	53 28				
	ZNE	e	56 31				
	E	e	57 51				
	N	e	58 11				Northern Peru, 6°S., 74°W. (U.S.C.G.S.)
	E	e	2 0 54				
	N	i	2 15				
	E	e	5 15				
	N	i	5 31				Surface waves poorly developed.
		F	3 0				

FORM 3717.
W.8089.100.1.36.Gp.923.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. DECEMBER. 1935.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Dec.							
14/15	ZE	iP	22 17 30			8890	Compression. Emergent on "N-S" component.
	Z	i	17 35				
	E	iS	27 35				
	ZNE	ePS	28 13				
	E	i	29 17				)
	E	i	29 38				)Large movements.
	E	iSS	33 12				)
	E	eSSS	36 11				
	N	i	38 53				
	ZNE	eL	41				
	N	M	51 0	20	-75		Pacific Ocean off Central America.
	Z	M	54 38	17	+185		
	E	M	54 38	17	+185		14°N., 93°W. (U.S.C.G.S.)
		F	1 15				
15	ZNE	ePKP	7 27 11			15000	Felt in Solomon Islands.
	Z	iSKP	30 33				
	N	iSS	48 22				
	E	iSSP	48 32				12°S., 161°E. (U.S.C.G.S.)
	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				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. DECEMBER, 1935.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h. m. s.	sec.	μ	km.	
Dec.							
20	ZN	e	18 59 1				No "E-W" record.
	N	L	19 41				
	Z	L	46				
	N	M	46 22	28	-10		
	N	M	59 59	20	+8		
	Z	M	20 0 4	20	-8		
		F	21 10				
21	ZNE	eL	12 32				
		F	13 0				
23	ZNE	eL	15 30				
		F	45				
24	Z	e	12 36 25				Confused by microseisms.
	NE	e	46 45				
	NE	L	58				
	Z	L	13 1				
	E	M	5 8	26	+8		
		F	14 5				
							Amplitudes as read in mm :-
							N. E. Z.
28	ZE	iP	2 48 56			10020	(0.0) -1.2 +1.7
	ZNE	i	49 5				+1.3 +6.8 -12.7
	ZNE	iPP	52 55				
	ZE	iPPP	54 57				Azimuth about 80°.
	ZE	i	56 57				Near Northern Sumatra.
	Z	i	58 28				
	E	iSKS	59 39				
	NE	iS	59 55				
	N	i	3 0 3				
	ZE	i	1 35				
	N	i	3 42				
	N	iSS	5 55				
	ZE	i	6 46				
	N	i	7 36				
	ZE	i	10 35				
	N	i	10 38				
	N	i(SSSS)	12 23				
	Z	iPPP	14 37				By path > 180°.
	N	i	15 13				
	ZNE	L	18				
	N	M	19 24	52	-550		
	N	M	22 7	34	>+450*		*Not completely recorded.
	E	M	26 2	30	+170		
	N	M	30 6	28	+330		
	Z	M	35 17	25	-360		
	E	M	35 48	27	-200		
		F	7 30				
28		e	19 38				
		F	50				
29		e	4 39				Very small.
		F	55				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

.....DECEMBER,.....1935.

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

(sgd) F.J.W. Whipple,

Superintendent,
3rd January, 1936.

FORM 3718.