AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JANUARY 1948

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.	1940 Nov. 29	24.5 sec.	8.2 sec.	0.00	74.3 sec^{-1}
E.	1940 Nov. 27	24.0	8.0	0.00	81.5
Z.	1940 Dec. 14	14.4	14.2	0.00	75.9

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1	NE	eL	06	51	–				
		F	07	00	–				
4	ZN	iPKP$_1$	09	15	17			16500	Dilatation. Focal depth
	Z	i			23				about 600K
	ZE	i(PKP$_2$)			38				Short period vertical instr.
	ZN	ipPKP$_1$		17	40				
	Z	i(pPKP$_2$)			48				
	N	e(SKP)		18	22				
	Z	esPKP$_1$			38				
	ZN	e(sPKP$_2$)							
		–(PP)			(55)				
	ZN	e(pPP)		21	16				
	N	e(SKS)			(30)				
	N	e(sPP)		22	10				
	E	e(PPP)			(45)				
	ZE	e(SKKS)		24	18				
	N	e(pPPP)							
		–(pSKS)			36				
	E	e(SKSP)		27	(52)				
	N	e(PSKS)		28	(50)				
	E	e(SPP)		30	48				
	Z	e(pPS)							
		–(pSP)		31	24				
	N	e(PPS)							
		–(PSP)		32	(16)				
	E	e(sPS)							
		–(sSP)			(48)				
	ZNE	eSS		37	(20)				
	NE	esSS		40	(50)				
	E	eSSS		43	(15)				
		F	10	00	–				
4	ZNE	eL	13	27	–				
		F		30	–				
5	ZNE	eL	23	41	–				
		F		50	–				

Form 3717.

DS51865-1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
6	ZNE	iP	17	35	(41)			9300	Compression
	ZNE	ePP		38	(59)				In minute time-break
	ZNE	ePPP		41	(14)				
	ZNE	eS		46	07				
	N	e(ScS)			29				
	Z	e(PS)		47	07				
	E	e(SS)		51	19				
	N	e(SSS)		54	(29)				
	E	M	18	17	54	16	+12		
	Z	M		18	52	16	-13		
		F	19	40	-				
7	NE	eL	16	09	-				
		F		40	-				
10	ZNE	e	05	41	(42)				Preliminary phases con-
	Z	e		46	(42)				fused with microseisms
	E	e		51	(32)				
	NE	e		56	(27)				
	ZNE	e	06	02	(02)				
		F	07	45	-				
16	Z	e(P)	11	20	44			(8200)	Weak pulses
	NE	e(S)		30	(16)				
	NE	e(SS)		35	(06)				
	NE	e(L)		40	-				
		F	12	30	-				
17	ZNE	eL	02	38	-				
		F	03	00	-				
17	ZNE	eL	07	29	-				
		F	09	30	-				
20	NE	eL	11	10	-				
		F	13	00	-				
22	NE	e(L)	14	30	-				
		F	15	30	-				
23	ZNE	eL	15	00	-				
		F		20	-				
24	ZNE	eP	18	00	(31)			11200	Compression. Destructive in Phillipines.
	NE	iSKS		11	11				Clear pulse
	Z	eS			58				
	ZNE	iPS		13	35				
	NE	eSS		19	05				
	E	M		50	(33)	19	≥-1043		
	Z	M		51	(11)	25	≥+1280		
	N	M		52	(19)	17	≥+948		
		F	23	30	-				
25	ZNE	eL	06	50	-				
		F	07	20	-				

M.O.....

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZNE	e	15	05	02				
	N	i		07	41				
	E	e		08	12				
	Z	i			25				
	Z	M		13	10	20	-102		
	N	M			35	20	-68		
	E	M		14	37	18	-35		
		F	16	00	-				
√ 27	Z	i(PKP)	12	17	08			(13000)	Dilatation
	ZNE	i			13				
	Z	e(PP)		18	(19)				
?	ZN	e[illegible]+(PKS)		20	35				Strong clear pulse
	ZN	e(SKS)		23	58				
	N	e(SKKS)		25	07				
	N	e(PS)		27	53				
	N	e(PKKS)		31	(34)				
	ZN	e(SS)		34	(19)				
	E	e(SSS)		39	(09)				
	Z	M		56	13	12	+12		
		F	14	30	-				
27	ZN	eL	18	50	-				
		F	19	15	-				
√ 28	ZE	i	04	16	(49)				In minute time-break
	N	e		21	(09)				
	N	e		22	(03)				
	N	M		47	23	22	+25		
	E	M		51	33	18	+11		
	Z	M		52	23	12	-10		
		F	05	30	-				
√ 28	ZE	i(P) ?	16	00	10			(5400)	Short period vertical instr.
	NE	e(PP)-[illegible]		01	44				No Galitzin Z
	E	e(S)		07	10				
	E	e(SS)		10	10				
	NE	e(LQ)		11	-				
	N	M		21	59	20	+48		
	E	M		25	06	16	+70		
		F	17	30	-				
29	NE	eL	01	28	-				No Galitzin Z
		F		40	-				
30	ZE	iP	08	53	22			6200	Compression
	ZE	iPcP		54	19				
	ZE	ePP		55	39				
	ZE	ePPP		56	(32)				
	NE	iS	09	01	(07)				
	Z	i			(27)				
	NE	eScS		03	(12)				
	E	eSS		05	-				
	NE	eLQ		07½	-				
	N	eL_R		10	-				
	Z	i(PKKP)		15	03				
	N	M		24	55	20	-88		
	E	M		25	15	16	-52		
	Z	M			26	16	-54		
		F	11	00	-				

FORM 3718.

DS 51868-1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
31	Z	e(L)	07	50	–				
		F		55	–				
31	NE	e(L)	14	45	–				
		F		50	–				
31	NE	e(L)	17	43	–				
		F		45	–				

FORM 3718.

DSS1865-1. R139. 125. 2/48. C.L.

No. 542 504.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY 1948

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.	1940. Nov. 29	24.5	8.2	0.00	74.3
E.	1940. Nov. 27	24.0	8.0	0.00	81.5
Z.	1940. Dec. 14	14.4	14.2	0.00	75.9

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK. 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.
4	Z	i(P)	04	56	56			About 8500?	Short period vertical inst. No Gal.Z.
	N	e(L)	05	23	-				Max. about 05.29½ -.
		F	06	00	-				Confused by microseisms.
6	NE	e(L)	11	02	-				
		F		10	-				
6	NE	e	23	09	56				Weak pulse
	NE	e(L)		15	-				
	ZNE	e(L)		20	-				
		F		45	-				
9	NE	e(L)	06	12	-				
		F		15	-				
9	ZNE	iP	13	03	44			2900	Dilatation. Strong pulse. Azimuth (SE).
	NE	iPP		04	38				35.5°N, 27.2°E (U.G.G.I.)
	NE	iP$_c$P		06	(46)				In minute time break.
	ZNE	eS		08	14				
	NE	eSS		09	(46)				In minute time break.
	ZNE	e(L$_R$)		12	-				
	N	M			37	20	⩾+1048		
	Z	M		15	19	14	⩾- 367		
	E	M		16	45	(15)	⩾(-381)		
		(F)	16	45	-				Overlapped by next shock?
9	Z	i(P)	15	12	44			About 11500?	Weak pulse. Short period vertical instrument.
	ZE	e(S)		23	(24)				
	ZE	e(SKS)		24	(36)				
	ZNE	e(L)		50	-				
		(F)	16	45	-				

Form 3717.

OS 53689/1

3

M.O. 512 3°2.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	Z	e(P)	16	03	26			(1900)	Non-seismic interference Max. about 16.08½ -.
	ZNE	e(S)		06	36				
		F		25	-				
10	N	e(L)	16	36	-				
		F		40	-				
10	N	e(L)	19	47	-				
	E	e(L)		59	-				
		F	20	15	-				
11	Z	i(P)	15	52	24			(7200)	(Compression). Weak pulse. Short period vertical inst.
	E	e(S)	16	01	02				
	NE	e(L_Q)		09	-				
	ZNE	e(L_R)		12	-				
		F	17	45	-				
11	N	eL	18	17	-				
		F		25	-				
11	ZNE	eL	22	35	-				
		F	23	15	-				
12	Z	e(P)	22	32	37			(3100)	Weak pulse. Short period vertical instrument. Confused by microseisms.
	NE	e(S)		37	21				
	NE	e(L_R)		40½	-				
		F	23	00	-				
13	Z	e(P)	05	07	(00)			(6600)	Short period vertical inst. Confused by microseisms. Weak pulse.
	E	e(PP)		09	(10)				
	N	e(S)		15	(07)				
	N	e(S_cS)		16	(52)				
	NE	e(SS)		19	(21)				
	NE	e(SSS)		21	00				
	NE	e(L_Q)		22	-				
	ZNE	e(L_R)		25	-				
	N	M		29	39	22	-73		
	Z	M		34	51	17	-83		
	E	M			56	16	-44		
		F	06	30	-				
13	N	e(L)	08	30	-				
		F		35	-				
14	NE	e(L)	02	10	-				
		F		15	-				
14	NE	eL	12	45	-				
	Z	eL		54	-				
		F	13	10	-				
14	NE	e(L)	14	38	-				
		F		50	-				

FORM 8718.

DS 53689/1

M.O. ~~512~~ 502.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
14	Z	e(P)	22	13	20			(9700)	Short period vertical inst. Weak pulse.
	NE	e(S)		24	15				
	N	e(SS)		29	58				
	N	e(SSS)		34	17				
	NE	e(L_Q)		37½	-				
	ZNE	e(L_R)		40	-				
		F	23	30	-				
15	Z	e(P)	18	00	21			(3000)	Short period vertical inst.
	ZE	e(PP)		01	05				Weak pulses.
	ZE	e(PPP)			(25)				Weak pulse.
	ZNE	e(S)		05	(01)				
	E	e(SS)		06	(33)				
	NE	e(L_R)		08	-				
	Z	e(S_cS)		10	56				
		F		30	-				
16	N	e(L)	02	07	-				
		F		35	-				
17	ZNE	e(L)	22	30	-				
		F	23	15	-				
18	ZNE	eL	02	30	-				
		F	03	25	-				
18	ZN	iP	20	36	29			3700	Compression. Azimuth N'ly?
	Z	e(PP)		37	(30)				
	Z	e(P_cP)		39	(02)				
	E	e		41	23				
	ZNE	eS			49				
	ZNE	eP_cS		42	59				
	ZNE	eSS		43	41				
	E	eL_Q		44½	-				
	ZNE	eL_R		45½	-				
	NE	eS_cS		46	58				
	N	M		48	59	20	+38		
	E	M		54	00	13	+34		
	Z	M			04	12	-47		
	ZNE	e(PKKP)	21	1½	-				
		F	22	30	-				
21	ZNE	e(L)	13	50	-				Confused by microseisms
		F	14	10	-				
21	ZNE	e(L)	15	17	-				
		F		25	-				
26	ZNE	e(L)	04	35	-				Confused my microseisms
		F	05	00	-				
28	Z	i(P)	02	09	15			(7600)	Compression. N.,e.

FORM 3718.

DS 53689/1

M.O. ~~512~~ 5'02.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	E	e(PP)	02	11	(50)				
(Cont'd	NE	e(S)		18	(14)				Weak pulses.
	N	e(PS)			(24)				Confused by microseisms.
	NE	e(SS)		22	(44)				
	E	e(SSS)		25	(50)				
	NE	e(L_Q)		27½	-				
	NE	e(L_R)		30½	-				
		F	03	30	-				
28	E	e(L)	22	49	-				
		F		55	-				

DS 53689/1/R139 125 3/48 CL.

M.O. 502

17 APR 1948

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH 1948

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.	1940. Nov. 29	24.5 sec.	8.2 sec.	0.00	74.3 sec^{-1}
E.	1940. Nov. 27	24.0	8.0	0.00	81.5
Z.	1940. Dec. 14	14.4	14.2	0.00	75.9

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.	Δ km.	REMARKS.
✓ 1	ZE	eP	01	27	17			12 800	
	Z	ePKP		31	07				
	ZNE	ePP		32	16				
	Z	ePPP		34	24				
	Z	eSKS		37	27				
	E	eSKKS		39	06				
	E	e(PS)		41	37				
	Z	iPS		41	44				
	Z	i		42	50				
	Z	iSPP		43	06				
	N	iSS		48	20				
	E	i		52	11				
	N	iSSS		52	24				
	ZNE	e		59	34				
	ZNE	eL_R	2	07	–				
	E	M		22	23	20	+48		
	N	M		23	20	22	+80		
	Z	M		23	25	18	-48		
	ZE	eL 2	3	26	–				
		F	4	30	–				
									Very small. Marked by microseisms.
2	Z	iP	08	54	33				
	ZNE	eL_R	09	01	–				
2		F		10	–				
								10,200	Short period Z instrument only.
✓ 3	Zv	eP	09	23	03				
	NE	eSKS		33	(37)				No Galitzin Z record till 14h 52m.
2	NE	eS		34	02				
	NE	eSS		40	19				
2	N	eSSS		44	34				Near NW Luzon. 18°N., 119°E. (U.S.C.G.S.)
	N	eL_Q		50	–				

FOR

Form 3717.

DS 58448/1/R139 125 4/48 CL

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24	NE	e	00	16	–				Very small; possibly not seismic.
		F		20	–				
24	Z_V	ePP	05	37	50			(11,200)	Short period Z inst. only.
	E	eSKS		44	18				
	E	e(PPS)		47	20				Off Southern Sumatra 6°S., 104°E. (U.S.C.G.S.)
	NE	eSS		52	54				
	NE	eSSS		56	30				
	NE	eL	06	04					
	N	M		21	11	23	-24		
		F	07	55					
24	NE	eL	08	05	–				No Z record.
		F		15	–				
4 24	NE	eL	22	41	–				
		F		50	–				
25	NE	eL	07	04	–				Very small.
		F		10	–				
26	Z_V	eP	03	06	21			2260	Short period Z instrument
	Z_V	ePP		07	00				Also shown on Z.
	E	eS		10	01				
7	ZNE	eL		11	–				
	ZE	iP_cS		14	21				Well marked phase.
		F		25					
8 26	NE	e	13	42	–				
		F	15	20	–				
27	NE	e	09	32	–				
		F		55	–				
9 29	Z_V	eP	02	38	20			3000	Short period Z inst. only.
	E	eS		42	57				No N record.
	E	eSS		44	08				
	E	e		45	08				
	ZE	eL		50					
		F	03	10	–				
29	Z_V	eP	10	27	52			2600	Short period Z instrument.
	ZNE	ePP		28	36				
	NE	eS		32	00				
10	Z	eS		32	05				
	Z	i		33	19				
	ZNE	eL		34	–				
	N	M		37	22	16	+22		
	E	M		38	56	14	-18		
		F	11	15	–				
10 29	Z_V	e(P)	12	10	28				Short period Z inst. only.
	Z_V	i		10	32				
	Z_V	i		10	57				Confused by microseisms.
	Z_V	i		11	13				
	ZNE	i		13	56				Possibly more than one shock
	N	e		24	53				
	E	eL	12	50	–				
		F	14	10	–				

FORM 3718.

DS 58448/1/R139 125 4/48 CL

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL 1948

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.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
3	NE	e	08	40	-				Confused by microseisms; possibly not seismic.
		F		55	-				
4	NE	e	11	50	-				Doubtful if seismic.
		F	12	50	-				
4	NE	e	13	45	-				Doubtful if seismic.
		F	14	05	-				
4	NE	e	15	45	-				Doubtful if seismic.
		F	16	15	-				
8	ZN	e	00	48	35				Doubtful if seismic.
	N	e		59	16				
	N	e	01	10	23				
	NE	e		45	09				
	ZNE	eL		51	-				
		F	02	15	-				
8	ZV	e	14	06	25				Short period Z instrument.
	ZV	e		07	10				
	NE	e		14	48				
		F		25	-				
9	NE	eL	15	31	-				
		F		50	-				
13	NE	eL	09	55	-				
		F	10	25	-				
14	NE	e	10	46	-				Possibly not seismic.
		F	11	10	-				

Form 3717.

DS 59294/1/1 R139 125 5/48 CL

M.O. 502 6

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
15	NE	e	20	40	-				
		F	21	20	-				
16	-	-	-	-	-				Adjusting: 14^h14^m to 15^h53^m, and 16^h48^m to 17^h00^m.
17	ZV,ZNE	iP	16	24	18			9700	Compression.
	ZV	i		24	57				Short period Z instrument
	ZV,ZNE	iPP		27	42				Large motion.
	ZNE	iSKS		34	44				
	ZE	iS		35	04				
	ZNE	iPS		35	55				
	ZE	iPPS		36	35				
	Z	i		38	28				
	NE	i		38	36				
	ZNE	e		39	26				
	ZNE	eSS		40	34				
	ZNE	i		47	07				
	Z	i		53	31				
	NE	eL_Q		57	-				
	ZNE	eL_R	17	00	-				
	N	M		09	19	14	-225		
	Z	M		11	11	12	+430		
		F	20	40	-				
18	ZV,ZNE	i	12	40	18				Short and long period Z instruments.
	ZV,ZNE	e		41	05				
	ZV,ZE	e		42	48				
	ZNE	e		47	09				
	ZNE	e		50	02				
	ZNE	e		51	06				
	ZE	e		57	04				
	E	e		57	56				
	Z	e	13	00	24				
	Z	e		06	11				
	Z	e		07	00				
	NE	eL_Q		16	-				
	Z	e		17	50				
	Z	e		18	50				
	Z	eL_R		21	-				
	N	M		34	24	21	+49		
	Z	M		34	24	20	+77		
		F	15	40	-				
20	ZE	eL	02	50	-				Very small on N-S component.
		F	03	05	-				
20	E	e	20	01	-				No records on N-S and Z components. Possibly not seismic.
		F		20	-				
21	E	e	01	50	-				No records on N-S and Z components. Possibly not seismic.
		F	02	05	-				

FORM 3718.

DS 59294/11/R139 125 5/48 CL

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
-	-	-	-	-	-				N-S unserviceable: 20d.11h.05m. to 23d.16h.52m. E-W unserviceable: 21d.09h.16m. to 23d.16h.52m. Z unserviceable: 20d.11h.05m. to 24d.10h.58m. Strips on pendulums corroded and broken.
21	ZV	iP	20	32	26			6700	Short period Z instrument only.
	ZV	iPP		32	31				
	ZV	iP_cP		32	55				
	ZV	iPP		35	01				
	ZV	i(PPP)		37	05				
	ZV	iP_cS		37	23				
	ZV	eS		40	50				
	ZV	eSS		41	09				
	ZV	eSS		45	09				
	ZV	eL		51	-				
		F	22	35	-				
22	ZV	eP	00	38	45			6860	Short period Z instrument only.
	ZV	iPP		38	48				
	ZV	i		39	01				
	ZV	eP_cP		39	22				
	ZV	eS		47	07				
	ZV	eL		57	-				
		F	01	50	-				
23	E	e	20	30	-				Very small. Z not recording.
		F		55	-				
26	ZE	e	09	36	57				
	Z	i		37	48				
	ZNE	eL		43	-				
	N	M		44	34	18	+16		
	Z	M		44	38	14	+24		
		F	10	30	-				
26	ZE	eL	10	52	-				
		F	11	10	-				
27	Z	e	02	40	-				
		F	03	05	-				

FORM 3718.

DS 59294/1/R139 125 5/48 CL

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY 19 48

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.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE : MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1		e	02	11	-				
		F		50	-				
4	ZNE	eL	14	33	-				
		F	15	05	-				
7	-	-	09	50	to				No records; adjusting Z pendulum.
			15	56	-				
8	ZV,Z	iP	02	58	39				Small but clear on short and long period instruments. Kurile Islands. 46½°N., 151°E. (U.S.C.G.S.)
	E	i		58	48				
	EZ	i		59	06				
	E	i		59	11				
	2E	F	03	12	-				
√9	ZVZE	iP	02	21	49			(9670)	Compression. Off Southern Japan. 30°N, 129°E (U.S.C.G.S.)
	ZV	iPcP		22	01				
	ZE	ePP		25	13				
	E	e(SKS)		32	11				
	E	e(S)		32	33				
	ZE	iPS		32	46				
	NE	e		44	53				
	Z	e		45	41				
	NE	e		46	49				Possibly SKKSΩ.
	Z	e		47	41				Possibly P21P21.
	ZNE	eLQ		53	-				
	ZNE	eLR	03	05	-				
	E	M		08	30	15	+40		
	Z	M		08	35	15	-37		
		F	05	25	-				
9	ZE	e	08	35	53				Very small.
		F	10	30	-				

Form 3717.

DS 61168/1

M.O. 502 8

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1948

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
✓ 11	ZV,E	i	09 08 47				Probably deeper focus than normal.
	ZV,E	i	09 05				09.h14m to 09.h26m changing records
	ZE	e	27 33				
	ZE	e	28 24				
	ZNE	eL	42 -				
	ZE	e	46 23				
	E	e	53 58				
	Z	M	58 02	18	+4		
		F	11 25 -				
✓ 12	ZV,ZE	iP	01 09 34			9670	Compression.
	ZV,Z	e	09 51				Off north-east coast of Honshu, Japan.
	ZV	e	10 09				38°N, 142½°E. (U.S.C.G.S.)
	E	ePP	12 41				
	ZE	e	12 53				
	ZE	ePPP	14 59				
	ZE	eSKS	19 49				
	ZE	eS	20 17				
	ZE	ePS	21 01				
	ZE	ePPS	21 29				
	ZE	eSS	25 47				
	NE	eLQ	38 -				
	ZNE	eLR	48 -				
	E	M	48 15	19	-50		
	Z	M	51 12	19	+41		
		F	04 55				
✓ 14	ZV	e	13 37 03				
	ZNE	eL	14 01 -				
	Z	M	17 20	13	+4		
		F	15 25 -				
14	ZV	iP	18 51 59			9220	
	ZV	eS	19 02 23				
	ZNE	eL	22 -				
	Z	M	34 03	16	+3		
		F	20 22 -				
✓ 14/15	ZV,(ZE) ✓	iP	22 43 16			8090	Emergent on ZE.
	ZV,ZNE	iPcP	43 22				South of Alaska Peninsula
	ZV,ZE	ePP	46 06				54½°N, 161°W. (U.S.C.G.S.)
	Z	e	47 08				
	ZE	e(PPP)	47 38				
	ZV,ZE	iS	52 43				
	ZV	ePS	53 32				
	ZV	eSS	58 12				
	ZNE	eLQ	59 -				
	E	e	23 01 20				
	ZE	eLR	13 -				
	E	M	17 32	19	+110		
	Z	M	20 27	19	+80		
		F	03 40 -				
15	ZE	e	18 51 -				
	ZE	eL	54 -				
		F	19 25 -				

FORM 3718.

DS 61/160/1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
16	ZE	e	22	06	-				
		F		26	-				
17	ZV	eP	18	00	04			8220	Small.
	ZV	i		00	14				South of Alaska.
	E	e		02	03				55°N, 161°W. (U.S.C.G.S.)
	E	eS		09	34				
	E	e		20	02				
	ZE	eL		25°	-				
		F	19	25	-				
20		e	07	01	-				Possibly not seismic
		F	08	10	-				
√22	E	e	19	58	(01)				Very doubtful.
	ZE	eL	20	45	-				
	E	M	21	09	19	20	+5		
		F	22	00±					
23	ZE	e	04	47	-				Very small.
		F	05	10	-				
√25	ZV	eP	07	22	54			8020	N-S pendulum removed for
	ZV,ZE	ePcP		23	16				overhaul 24d. 09h. 28m.
	ZE	e		23	24				
	ZE	eS		32	27				
	E	ePS		32	45				Sikang Province, China.
	E	eSS		36	11				30°N, 99½°E. (U.S.C.G.S.)
	E	e		37	39				
	E	e		44	25				
	ZE	eL		57	-				
	E	M		58	03	12	+65		
	Z	M	8	02	41	13	-25		
		F	10	35	-				
25	Z	e	19	20	-				
		F		40	-				
28	ZV,E	iPg	17	02	53			120	Clearly shown on short
	ZV,E	iSg		03	07				periods instruments, also
		F		06	-				recorded on Galitzin Z and
									E. Observed by Met.Office,
									Mildenhall and adjacent
									stations.
29	E	eP	04	53	09			(2100)	Depth of focus probably
	ZE	epP		53	47				about 200 km.
	ZE	eS		56	30				
	E	ePcP		57	19				
	E	eL		59	-				Very poorly developed.
		F	05	15	-				
30	E	eL	14	44	-				Traces on Z component.
		F	15	10	-				
31	E	e	14	46	-				Traces on Z component.
		F	15	10	-				Possibly artificial.

FORM 3718.

DS 61168/1/R139 125 6/48 C L

AIR MINISTRY, METEOROLOGICAL OFFICE

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE 1948

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.		sec.	sec.		sec^{-1}
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1	ZV	e	14	12	05				Small; possibly artificial.
	ZV	e		14	16				
		F		17	-				
1	ZV	e	19	09	04				
	E	e		19	31				
	ZV	e		26	08				
	ZE	eL		53	-				
		F	20	35	-				
7	ZV,E	e	07	17	46				
	ZV,E	e		18	36				
	ZV	i		18	48				
	ZV	i		18	58				
	ZV	i		19	06				
	ZV,E	i		19	16				
		F		22	-				
8	E	eL	04	07	-				Z light failed.
		F		26	-				
11	-	-	09	22	to				No records; installing the N-S component.
			14	57	-				
13	ZV,Z	e	06	38	47				On long and short period Z.
	NE	e		40	22				
		F		57	-				
14	-	-	09	23	to				Removing Z for overhaul.
			15	20	-				

Form 3717.

KEW OBSERVATORY, RICHMOND, SURRE

SEISMOLOGICAL BULLETIN.

JUNE 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
15	ZV	iP	11	57	30			(9120)	
	ZV	i		57	48				
	ZV,N	e(S)	12	07	50				
	ZV,N	e(PS)		08	51				
	N	e(SS)		14	23				
	N	e		18	38				
	NE	eL		25	-				
	N	M		41	17	17	(-20)		
		F	14	45	-				
15	NE	e	21	42	-				
		F	22	15	-				
17	N	e	07	02	-				
		F		18	-				
18	ZV,N	i	01	13	02				
	ZV	i		15	15				
	ZV	e		16	24				
	ZV,N	i		16	28				
	ZV	e		27	48				
	NE	eL		54	-				
	N	M	02	04	05	30	(-4)		
		F	03	25	-				
18	ZV	e	07	49	24				
	N	eL	08	05	-				
		F		35	-				
18	-	-	10	40	to				Adjusting N-S and E-W Galitzin pendulums.
			14	45	-				
21	-	-	13	53	to				Adjusting N-S and E-W galvanometers.
			14	50	-				
23	E	e	03	49	53				Very small.
	E	e		51	20				
	NE	e		51	29				
	NE	e		52	49				
		F		57	-				
27	ZV	e	00	20	09				
	E	e		29	51				
	E	e		38	33				
	E	e		42	23				
	NE	eL		48	-				
	E	M		57	06	19	+4		
		F	01	45	-				
27	NE	e	07	50	-				
		F	08	10	-				
27	ZV	i	13	00	53				
	E	e		03	50				
	E	e		09	19				
	E	e		09	56				
	NE	eL		14	-				

FORM 3713.

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
27	E	M	13	18	57	17	-2		
		F	14	15	-				
27	ZV	eP	21	50	40			(8160)	
	E	e		59	56				
	E	e(S)	22	00	11				
	NE	eL		07	-				
	E	M		24	40	17	-2		
		F	23	30	-				
28	ZV	iP	07	26	05			9260	
	ZV	iP_cP		26	14				
	ZV	iPP		29	20				
	EN	eS		36	31				
	ZV	iSP		37	38				
	N	eSS		40	05				
	NE	e		47	01				
	NE	eL		51	-				
	E	M	08	05	01	15	+80		
	N	M		07	13	14	(+100)		
		F	10	10	-				
29	ZV	i	10	48	05				eNE.
	ZV	i		51	23				
	N	i		51	49				
	ZV	i		53	21				
	E	e		58	51				
	NE	e	11	10	05				
	NE	eL		38	-				
	N	e		39	59				
	E	M		53	18	20	+10		
		F	13	15	-				
29	ZV	i	16	13	01				Possibly deeper than normal.
	ZV	i		13	11				
	N	e		18	16				
	N	e		18	38				
	N	e		20	40				
	N	eL		25	-				
		F	17	20	-				
30	ZV,NE	iP	12	26	(01)			2220	In minute gap.
	NE	iPP		26	13				
	N	i		26	48				Large movement.
	ZV,NE	eS		29	38				
	N	e		29	45				
	E	e		30	50				
	NE	e		31	44				
	NE	eL		32	-				
	E	M		33	07	14	-83		
	N	M		33	11	14	(-220)		
		F	14	50	-				

FORM 3718.

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

Hall

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY 19 48

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.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE : MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
3	ZV,E	eP	13	09	11				Visible on Galitzin seismograph but very small.
	E	e		09	26				
		F		15	-				
3	NE	eL	15	53	-				
		F	16	15	-				
5	ZV,	eP	14	01	53			(5,320)	
	ZV,	i		01	58				
	E	e(S)		08	49				Ucele. Δ=4800 Km.
	NE	e		13	15				To = 13.53.31 G.M.T.
	NE	e		14	53				
	NE	eL		18	-				
	E	M		31	09	17	+10		
		F	16	00	-				
7	ZV,	eP	02	31	59			10,030	Off Southern Coast of Honshu Island, Japan.
	E	eSKS		42	27				
	NE	eS		42	59				33°N., 136°E. (U.S.C.G.S.)
	NE	L	03	03	-				
	E	M		16	49	14	+11		
		F	04	50	-				
8	ZV,	iP	12	39	13			2330	Near Jan Mayen Land.
	NE	eS		42	59				
	ZV,	e		43	06				71°N., 6°W. (U.S.C.G.S.)
	ZV,	e		43	17				
	NE	L		44	-				
	E	M		45	42	15	10		
		F	13	15	-				

Form 3717.

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M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
14/15	ZV,	eP	22	49	55			(13500)	
	E	ePP		55	22				New Guinea.
	N	ePPP		57	12				4°S., 142°E. (U.S.C.G.S.)
	E	eSKS	23	00	20				
	E	eSS		10	24				
	E	ePPP		12	46				by path >180°
	E	eSSS		14	06				
	NE	eL		26	-				
	E	M		38	12	18	+10		
		F	01	55	-				
15	E	e(SKS)	11	26	32				Pacific Ocean.
	E	e(SS)		32	16				10°N., 104°W. (U.S.C.G.S.)
	E	eL		44	-				
		F	13	25	-				
16	E	e(S)		41	41				Near coast of Guatemala.
	E	e		42	52				14½°N., 92°W. (U.S.C.G.S.)
	E	e(SS)		46	32				
	E	eL		50	-				
	E	M	08	02	22	22	-6		
		F	09	10	-				
16	-	-	15h	22m	to				No records.
			16	25	-				
17	-	-	13	28	to				Visits to pit by Met. Association.
			17	25	-				
18	ZV,E	e	07	44	-				Short period records only.
		F	08	25	-				
19	ZV,	e	18	16	30				
	N	e		16	45				
	ZV,	i		17	00				
	ZV,N	e		17	48				
	N	e		32	06				
	E	e		33	06				L waves very poorly developed.
	N	e		41	12				
		F	19	50					
20	E	eL	01	50	-				
		F	03	10	-				
20	ZV,E	eP	11	15	45				Off SW coast of Peru.
	E	e(SKS)		26	19				17°S., 74½°W. (U.S.C.G.S.)
	E	e(PS)		28	26				
	E	e		30	32				
	NE	e		35	45				
	E	e		40	32				
	NE	eL		47	-				
	E	M		53	05	20	+30		
		F	13(15)		-				Components out of action; installing Z to 16.00h.

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE μ	Δ km.	REMARKS.
22	NE	eL	18	05	–				
		F		45	–				
22	E	eL	20	40	–				
		F	21	00	–				
22	E	eL	21	28	–				
		F		45	–				
23		eL	20	26	–				Very small.
		F		40	–				
23	N	e	21	10	–				
	NE	e		18	04				
	NE	eL		22	–				
		F	22	05	–				
24	ZNE	iP	06	08	30			2670	Near SW coast of Crete 35°N., 24°E. (U.S.C.G.S.)
	ZNE	iPP		08	59				
	Z	i		10	59				
	N	iS		12	43				
	ZE	i		12	58				
	E	i		14	34				
	ZE	e		16	09				
	E	eLQ		17	–				
	Z	i		17	21				
	E	eLR		19	–				
	E	M	06	19	26	22	+85		
		F	08	35	–				
25	N	eL	01	25	–				Very small.
		F	02	25	–				
26	NE	e	13	35	–				Very small.
		F	14	00	–				
26	NE	e	20	01	–				
		F	22	30	–				
27	NE	e	06	12	–				
		F		30	–				
29	NE	e	00	55	–				
		F	02	10	–				
30	ZV,	e	03	37	57				Short period.
	N	e		47	21				
	N	e		48	04				
	N	e		50	35				
	N	eL		53	–				
		F	04	25					

FORM 3718.

DS 23576-1. R139. 8/48. C.L.

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

Tale

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST 1948.

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, 1918).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
N.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1	E	e	19	46	-				
		F	20	30	-				
5	E	e	00	08	-				Very small.
		F		28	-				
5	E	e	22	55	-				Very small; possibly not seismic.
		F	23	10	-				
7	Z	eP	14	53	09			9160	Off Honshu Island, Japan. 34°N, 142°E. (U.S.C.G.S.)
	Z	e		57	23				
	E	eS	15	03	29				
	NF	e		03	45				
	E	e		03	05				
	E	eL		23	-				
	E	M		32	44	19	+13		
		F	17	15	-				
8	N	e	01	45	-				
		F	02	20	-				
9	Z	e	03	32	18				
	N	e		35	54				
	ZN	eL		41	-				Very small.
		F	04	00	-				
11	Z	iP	10	48	20			8550	N-S defective. Southern Mexico. Felt in State of Vera Cruz. 17½°N, 95½°W. (U.S.C.G.S.)
	EZ	iS		58	11				
	EZ	iPS		58	30				
	E	eSS	11	03	27				
	E	e		07	55				
	E	eL		11	-				
	E	M		22	23	22	-12		
		F	12	10	-				

Form 3717.

DS 74474-1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12/13	NE	e	23	00	22				
	E	eL		16	–				
		F	00	20	–				
14	NE	eL	17	25	–				
		F	18	20	–				
17	NE	e	17	42	–				
		eL		55	–				
		F	18	30	–				
17	NE	e	19	51	–				
		F	20	22	–				
18	NE	e	19	18	–				Very small.
		F		40	–				
18	ZV,	eP	21	16	07			2880	
	ZNE	eS		20	35				
	ZV,E	e		21	01				
	Z,E	e(SS)		21	14				
	Z,E	eL		22	–				
	E	M		23	09	13	+8		
		F		40	–				
19	E	e	01	43	04				
	NE	eL	02	00	–				
		F		45	–				
19	ZV,Z,E	eP	20	11	18			8910	South of Panama.
	ZV,	e		11	33				5°N, 82°W. (U.S.C.G.S.)
	E	eS		21	27				
	E	e(PS)		22	21				
	E	eL		35	–				
		F	21	18	–				
20	ZNE	e	19	32	–				
		F	20	20	–				
21	ZV,	e(P)	08	48	24				
	NE	e		53	20				
	NE	L		54	–				
		F	09	06	–				
22	ZV,	iP	23	20	01				Very small;
	ZV,E	i		22	40				confused by microseisms.
	ZV,E	e		23	10				
	E	e		24	50				
		F		30	–				
25	ZV,ZNE	iP	06	22	44			11000	
	ZV,ZNE	ipP		22	56				
	ZV	i		23	43				
	ZV,ZNE	iPP		26	31				
	ZV,ZNE	i		26	38				
	NE	eS		33	20				
	NE	esS		33	33				
	N	e		33	59				

FORM 3718.

DS 74474-1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
25	ZV,Z	e	06	34	48				
	NE	e PS		35	13				
	NE	e PPS		35	34				
	ZNE	e SS		40	37				
	NE	e SSS		44	33				
	ZNE	eL		47	-				
	E	M	07	09	35	17	+45		
		F	10	15	-				
26	NE	e	15	16	-				
	N	eL		23	-				
		F		55	-				
27	ZV,Z	iP	10	48	06			1970	
	Z	i		49	09				
	NE	eS		51	21				
	NE	e(L)		53	(10)				
		F	11	28	±				
27	ZV,	eP	17	02	47			(10335)	Very small.
	NE	e(S)		12	00				
	NE	e		12	55				
		F		30	-				
28	ZV,Z	eP	02	39	31			9000	
	NE	eS		49	44				
	NE	e		53	20				
	NE	eL	03	03	-				
	E	M		14	42	16	+5		
		F	04	25	-				
28	NE	eL	13	40	-				
		F	14	50	-				
29	ZV,Z	i	17	57	20				
	N	e	18	00	42				
	ZV,	e		02	30				
	N	i		05	20				
	N	e		07	14				
	N	i		17	25				
	NE	eL		36	-				
		F	20	20	-				
29/30	N	e	23	53	12				
	N	e		54	18				
	NE	eL	00	12	-				
	E	M		21	42	17	+4		
		F		35	-				
30	NE	e	01	45	37				
	NE	eL		47	-				
		F	02	10	-				
30	-	-	08	58	-to				Removed E-W pendulum for overhaul.
			10	07	-				

FORM 3718.

DS 74474-1-R139 125 9/48 CL

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE,

Hale

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR SEPTEMBER 1948

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.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1		e	00	39	–				
		F	01	55	–				
1	ZN	eL	19	55	–				
		F	22	05	–				
2/3	N	e	23	59	21				Confused by microseisms.
	N	e	00	00	19				
	N	e		10	33				
	N	i		15	49				
	N	eL		18	(13)				
	N	M		31	22	24	(+140)		
		F	02	15	–				
4	ZN	e	15	33	(05)				
	N	e		35	41				
	N	e		41	07				
	N	eL		55	–				
	N	M	16	11	18	17	(-12)		
		F		18	–				
6	N	e	08	30	06				
	N	eL		52					
	N	M	09	03	17	20	(+10)		
		F	10	50	–				
7	ZV,E	i	08	24	06				Probably deep focus.
	ZV,E	i		24	49				
	ZV,	i		25	10				
	ZV,E	i		27	05				
	NE	i		31	10				
	N	e		35	22				
	N	e		35	42				
	N	eL		40	–				
		F	09	10	–				

Form 3717.

DS77835-1.

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
7		e	15	55	-				Possibly not seismic.
		F	16	15	-				
√ 8	ZNE	iPKP$_1$	15	28	59			(16700)	Tonga Islands region.
	ZN	iPKP$_2$		29	34				21°S.,174°W. (U.S.C.G.S.)
	ZNE	iPP		32	23				
	NE	eSKSP		42	49				
	NE	e		43	07				
	E	eSS		51	37				Large.
	E	eSSP		53	01				
	N	eSSS		54	39				
	NE	e		57	23				
	E	e	16	10	39				
	ZNE	eL		18	-				
	N	M		32	26	26	(+675)		
		F	21	45	-				
10	N	e	02	55					Very small.
		F	03	05					
10	N	e	07	04					
		F		10					
10	N	e	12	22	-				Possibly not seismic.
		F		55	-				
√ 10	ZNE	iP	14	00	49			8935	Off E.coast of Hokkaido,
	Z	i(pP)		01	01				Japan. 44°N.,146½°E.
	Z	i		01	12				(U.S.C.G.S.)
	ZN	ePP		04	06				
	N	e		07	03				
	ZNE	iS		10	59				
	N	iS$_c$S		11	14				
	ZN	iPS		11	33				
	N	eSS		16	01				
	ZN	i		17	18				
	NE	eL		25					
	N	M		34	05	26	(+140)		
		F	18	10	-				
11	N	e	00	44	-				Very small.
		F	01	05	-				
11	N	e	01	56	-				
		F	03	05	-				
11	ZNE	e	08	57	46				Deep focus.
	ZNE	e		57	59				
	Z	e		58	45				
	ZNE	e	09	01	23				
	ZNE	e		01	45				
	ZNE	e		02	05				
	ZNE	e		02	29				
	N	e(L)		04	-				Very poorly developed.
		F		(30)					

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12	Z	e	03	39	33				
	Z	i		39	41				
	Z	i		40	03				
	N	e	04	12	-				
	N	eL		35	-				
		F	05	30	—				
19	Z	e(P)	06	25	59				
	NE	eL		53	-				
		F	07	45	-				
20		-	(09	52	to				No records; adjusting Z.
		-	(16	51	-				
20	ZV,	i(P)	18	05	23				
	ZV,	i		05	44				
	NE	eL		10	-				
		F		28	-				
21		-	(12	49	to				No records; adjusting Z.
		-	(16	42	-				
21	N	e(S)	17	57	(18)				
	N	e(SS)	18	02	44				
	N	e		03	46				
	NE	eL		05	(18)				
	N	M		17	15	15	(+40)		
		F		30	-				
✓23	ZV,	eP	01	05	01			9000	
	ZV,	ePP		08	04				
	NE	eS		15	14				
	N	ePS		15	44				
	NE	eL		33	-				
	N	M		41	25	21	(+17)		
		F	02	30	-				
24	NE	e	16	55	-				
		F	17	25	-				
24	NE	e	21	09	12				
	NE	eL		42	-				
	N	M		57	21	20	(+9)		
		F	23	10	-				
✓24/25	Z	e(PP)	23	45	(40)				
	ZN	eS		52	28				
	ZNE	eL	00	12	-				
	N	M		19	19	20	(+11)		
		F	01	25	-				
25	NE	eL	04	04	-				
		F		45	—				

FORM 3718.

DS77835-1.

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	Z	e	01	18	30				Probably deep focus.
	Z	e		19	02				
	Z	e		21	02				
	Z	e		21	30				
	Z	e		21	46				
	ZN	e		22	42				
	ZN	eL		58	-				
		F	03	00	-				
26	ZN	eL	08	30	-				
		F		50	-				
28	ZV,E	iP	21	48	25			8280	Confused by microseisms.
	ZV,	ePP		51	08				
	ZV,E	e(PPP)		54	21				
	ZV,NE	eS		58	02				
	NE	eSKS		58	40				
	NE	eSS	22	02	49				
	E	e		03	20				
	NE	i(SSS)		07	08				
	NE	e		16	11				
	E	i		16	59				
	NE	eL		19	-				
	N	M		21	43	18	(+70)		
		F	23	25	-				
30	E	eL	03	18	-				
		F	04	15	-				
30	ZE	e	19	40	-				
				55	-				

FORM 8718.

0577835-1. R139. 125. 10/48. C.L.

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER 1948

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 $\mu 2$.	$\frac{Ak}{\pi l}$
N.		sec.	sec.		sec-1
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1	NE	eL	03	54	-				
	Z	eL	04	02	-				
		F		25	-				
1	ZN	e	22	19	-				Very small.
		F		30	-				
2	ZNE	eL	15	50	-				
		F	16	20	-				
3		e	01	39	-				Possibly not seismic.
		F		45	-				
4	ZV,Z	i	06	09	50				
	NE	e		20	16				
	E	e		20	50				
	NE	eL		41	-				
	Z	eL		46	-				
	N	M		52	51	22	(+31)		
		F	07	55	-				
5/6	ZV,ZNE	iP	20	20	06			4870	Destructive around Askhabad, U,S.S.R. 38°N., 58°E. (U.S.C.G.S.).
	ZV,ZNE	ePP		21	44				
	ZNE	ePPP		22	50				
	ZNE	eS		26	35				
	E	i		26	41				
	ZV	iSS		29	30				
	ZV	i		31	48				
	ZNE	eL		33	-				
	N	M		47	21	19	(+340)		
	N	M		56	34	15	(+240)		
		F	01	05	-				

Form 3717.

DS 79519/1

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M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER 19 48

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
6	ZV,ZE	iP	01	32	44			4843	
	ZV,Z	ePP		34	32				
	ZNE	eS		39	11				
	ZNE	eSS		42	16				
	ZNE	eL		47	-				
	N	M		53	38	18	(+5)		
		F	02	20	-				
8	ZNE	eL	19	39	-				
		F	20	15	-				
10	ZNE	eL	02	45	-				
		F	03	20	-				
10	ZV,Z	iP	17	48	14			2765	
	NE	eS		52	34				
	ZNE	i		52	42				
	ZNE	eL		55	-				
	N	M		58	02	14	(+51)		
		F	18	25	-				
15/16	ZN	e	23	13	00				
	ZN	e		18	54				
	ZNE	eL		22	-				
	N	M		48	00	18	(+13)		
		F	01	20	-				
19	N	eL	01	17	-				Confused by microseisms.
		F		24	-				
21	Z	e	05	00	08				
	Z	e		23	20				
	NE	e		24	24				
	ZNE	eL	06	08	-				
	N	M		20	15	23	(+15)		
		F	07	30	-				
√ 23	NE	eL	05	31	-				Confused by microseisms.
	Z	eL		40	-				
	N	M		47	13	22	(+21)		
		F	06	08	-				
23	N	e	21	52	-				
		F	22	00	-				
26	ZE	e	20	40	-				No "N" record.
		F	21	10	-				
√ 28	ZV,ZE	iP	20	58	06			9315	
	ZV,	i		58	24				
	N	eS	21	08	35				
	N	ePS		10	03				
	NE	e(SSS)		16	15				
	N	e		18	41				
	ZNE	eL		27	-				
	N	M		40	27	18	(-28)		
		F	22	15	-				

FORM 3718.

DS 79519/1/R139 125 11/48 CL

M.O. 502

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON. 29 DEC 1948

KEW OBSERVATORY, RICHMOND, SURREY, ~~ENGLAND.~~

SEISMOLOGICAL BULLETIN FOR NOVEMBER 19 48

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 $\mu 2$.	$\frac{Ak}{\pi l}$
N.		sec.	sec.		sec^{-1}
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
1		e	12	26	–				
	ZNE	eL		44	–				
		F	13	25	–				
1/2	ZNE	eL	23	55	–				
		F	00	25	–				
3	ZN	ePKP	05	38	51				
	NE	e	06	01	41				
	N	e		14	13				
	N	e		19	57				
	ZNE	eL		25	–				
	N	M		43	14	24	(+30)		
		F	07	55	–				
5			10	02	to)				Standardisation of V.
			17	14	)				
6	Z	e	15	20	–				
		F	16	15	–				
8	E	e	06	50	–				Possibly not seismic.
		F	07	00	–				
10	E	e	08	00	–				Possibly not seismic.
		F		10	–				
13	ZV,	eP	04	48	50				
	ZE	e		53	56				
	Z	e		54	19				
	E	i		55	57				
	ZE	eL		57	54				
	E	M		59	39	14	(-30)		
		F	05	30	–				

Form 3717.
DS 8936 c/1

M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
13	ZV,	ePKP	07	20	17				
	ZE	eL	08	19	-				
		F	09	30	-				
13/14	NE	e	23	48	-				
	NE	eL	00	10	-				
		F	01	25	-				
14	NE	eL	06	57	-				
		F	07	30	-				
19	ZV,ZE	iP	01	16	18			8,680	
	N	eS		26	14				
	N	e		26	34				
	ZN	eL		37	-				
		F	02	30	-				
21	ZV,Z	i	19	29	40				
	ZV,Z	i		30	26				
	Z	e		40	33				
	ZN	e		40	51				
	N	eL		51	-				Poorly developed.
		F	21	20	-				
22	ZV,Z	e(P)	09	18	56				
	ZN	eL		57	-				
		F	10	40	-				
26	ZV,	eP	05	55	35			7140	No "N-S" record.
	ZV,	e		55	49				
	ZV,Z,E	ePP		57	32				
	E	iS	06	04	11				
	ZE	e		07	20				
	ZE	eSS		08	25				
	ZE	i		09	00				
	ZE	i		09	46				
	E	i		14	52				
	E	i		20	22				
	E	i		28	22				
	E	e		35	54				
	ZE	eL		37	-				
	E	M		42	00	31			
		F	09	20	-				
28	ZV,	i	21	54	34				
	ZV,Z	e		54	47				
	NE	e	22	01	40				
	E	e		12	40				
	ZNE	eL		19	-				
		F		35	-				

FORM 3718.
DG 22865/1/R139 - 125 - 12/48 CL.

M.O. 502

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER 1948

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.	$\frac{Ak}{m'}$
N.		sec.	sec.		sec^{-1}
E.					
Z.					

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK.
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.
✓ 4	E	iP	00	35	15			9070	Only E-W record.
	E	ePP		38	24				Disturbed by
	E	eS		45	32				microseisms.
	E	ePS		46	21				
	E	eSS		51	05				
	E	e		54	39				
	E	eSSS		57	01				
	E	eL	01	02	-				
	E	M		11	20	18	(+45)		
		F	03	20	-				
5	ZNE	eL	00	23	-				Disturbed by microseisms.
		F		55	-				
5	Z	e	07	01	56				Doubtful; confused by
	ZNE	e		02	14				microseisms
	ZNE	e		07	22				
	E	e		11	57				
	E	e		13	04				
	E	e		18	44				
	NE	e		22	23				
	ZNE	eL		33	-				
	N	M	08	06	54	19	(+15)		
		F	09	45	-				
6	E	e	14	45	-				Possibly not seismic.
		F	15	15	-				
7/8	NE	e	23	52	-				
		F	00	20	-				
8	ZNE	eL	17	07	-				
		F		46	-				

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M.O. 502

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER 1948

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	N	e(P)	13	32	(48)			(5315)	Very small; confused by microseisms.
	ZE	e(S)		39	44				
	ZNE	eL		54	-				
		F	15	05	-				
12	Z	e(P)	13	29	(14)			(8650)	Doubtful; confused by microseisms.
	E	e(S)		39	(10)				
	ZNE	eL		56	-				
		F	14	25	-				
14	ZNE	eL	16	55	-				
		F	17	20					
15	ZV,E	e	19	29	(33)				Very small; confused by microseisms
	E	e		40	21				
	ZNE	eL		56	-				
		F	20	35	-				
16	ZV,E	e	07	38	12				
	ZNE	eL	08	18	-				
		F	09	57	-				
20/21	NE	e	23	25	-				
	NE	eL		50	-				
	E	M		56	31	24	(-12)		
	Z	eL	00	01	-				
		F		25	-				
21	NE	e	20	14	-				
	ZNE	eL		41	-				
		F	21	25	-				
23	Z	iP	08	52	43			7980	
	Z	e		53	54				
	Z	ePP		55	30				
	ZNE	eS	09	02	04				
	NE	eSS		06	56				
	NE	e(SSS)		11	04				
	ZNE	eL		14	-				
	N	eL(2)	11	04	-				
		F	12	00	-				
25	ZNE	e	15	31	-				Small.
		F	16	20	-				
26	ZNE	e	07	41	-				
	ZNE	eL		52	-				
		F	08	35	-				
29	NE	e	07	00	-				Confused by microseisms.
		F		40	-				
31	E	e	00	02	-				Confused by microseisms.
	ZNE	eL		23	-				
	Z	M		32	17	17	-20		
		F	01	45	-				

1/L18850