KEW OBSERVATORY, RICHMOND, SURREY, [illegible]

SEISMOLOGICAL BULLETIN FOR JANUARY, 1947

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.
3	Z	iP	02	29	(22)			(8900)	Deeper than normal.
	Z	ipPP		32	58				Short-period Vertical
	NE	eS		39	(34)				Short-period Vertical
	NE	eL_Q	03	01	-				
	ZNE	eL_R		07	-				
	Z	M		16	52	13	-21		
	E	M			54	13	-13		
	N	M			55	16	+22		
		F	04	20	-				
13	N	eL	12	53	-				
		F	13	10	-				
15	ZNE	eL	19	08	-				
		F		20	-				
21	ZN	eL	20	55	-				
		F	21	05	-				
24	ZNE	eL	17	35	-				
	Z	M		46	25	13	-18		
		F	18	15	-				
25	ZNE	eL	04	31	-				
		F	05	15	-				
26	ZNE	iP	10	18	31			8650	Compression. Focal depth 170 Km.
	E	iP_cP			42				
	ZNE	ipP		19	13				
	ZNE	iPP		21	31				
	ZNE	iS		28	07				
	ZE	iSP		29	01				
	NE	eSS		34	(00)				

Form 3717.

DS 37548-1

SEISMOLOGICAL BULLETIN.

JANUARY, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26 (cont'd)	ZE	eSSS	10	37	(31)				
	ZN	eL_Q		40	-				
	ZNE	eL_R		44	-				
	N	M		49	40	17	+26		
	E	M		50	59	18	-32		
	Z	M		51	07	18	-59		
		F	12	10	-				
29	Z	i	08	28	(14)				Doubtful pulse.(Dilatation)
	Z	i		32	12				
	Z	i		33	58				
	ZE	i		34	18				
	E	e		37	02				
	NE	i		39	55				
	Z	i		41	30				
	NE	e		43	50				
	E	e		47	(30)				
	NE	e		51	(25)				
	ZNE	eL	09	(00)	-				
		F		(20)	-				

FORM 3718.

M.O. 491

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY 1947

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.
7	ZNE	eL	09	45	–				
		F	11	00	–				
9	ZNE	eL	05	20	–				
		F		30	–				
9	ZNE	eL	19	40	–				
		F	20	05	–				
10	NE	iP	04	21	06			5250	
	E	ePP		22	(46)				
	E	ePPP		23	(26)				
	ZN	e		25	56				
	ZNE	eS		28	01				
	N	eSS		31	11				
	NE	eL_R		35	–				
	N	M		38	50	18	+120		
	Z	M		42	35	16	-38		
	E	M			39	18	-21		
		F	05	55	–				
12	ZNE	eL	20	45	–				
	Z	M	21	04	42	15	-14		
		F		25	–				
14	ZN	eL	08	30	–				
		F		45	–				
17	Z	iP	00	14	42			1000	
	Z	i		15	51				
	ZE	iS		16	29				
	ZNE	e		17	03				
	ZNE	e			22				

Form 3717.

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
17 (cont'd)	ZE	e	00	17	36				
		F		22	-				
18	NE	i(P)	13	52	30			9000	Large Microseisms
	NE	e(PP)		55	28				
	E	e(PPP)		57	(14)				
	NE	e		58	25				Clear Pulse
		F	14	55	-				
21	ZNE	eL	22	46	-				
	Z	M		59	05	12	-10		
		F	23	15	-				
22	ZE	eL	04	40	-				
				50	-				
24	Z	iP	17	44	32			9550	Compression
	NE	ePP		47	58				
	E	eSKS		54	(42)				
	NE	eS		55	10				
	N	ePS		56	11				
	ZE	ePPS			32				
	E	eSS	18	00	42				
	N	eSSS		05	02				
	E	e(PKKS)			28				
	ZNE	eL_R		14	-				
	Z	M		20	30	17	-18		
		F	19	30	-				

FORM 3718.

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN FOR MARCH, 1947

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.
2	Z	iPKP	19	30	17			(12500)	Compression
	Z	iPP		31	21				
	ZE	i(PPP)		33	12				
	NE	eSKS		37	09				
	E	e(SKKS)		38	23				
	E	ePS		40	57				
	N	e(PPS)		42	(00)				
	NE	eSS		47	07				
	ZNE	e(SSS)		51	(50)				
	N	eL_Q	20	00	-				
	ZNE	eL_R		07	-				
	E	M		21	48	22	+13		
	Z	M			56	24	-24		
	N	M		22	16	24	+34		
		F		50	-				
10	ZNE	eL	02	18	-				
		F		40	-				
11	NE	eL	17	19	-				
		F		30	-				
16	NE	eL	10	19	-				
	Z	eL		26	-				
		F		45	-				
17	ZE	iP	08	30	48			7900	Compression
	ZE	$i(P_cP)$		31	(14)				
	ZE	ePPP		35	05				
	Z	i		38	21				
	NE	iS		40	03				
	ZE	iPS			23				
	NE	ePPS			49				
	N	i		41	23				

Form 3717.

OS 37548-1.

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
17 (cont'd)	N	e	08	41	49				
	E	e		42	17				
	N	eSS		44	24				
	ZE	eSS			(54)				
	ZN	eSSS		47	(30)				
	E	eSSS			49				
	ZE	eL_Q		50	-				
	N	eL_Q		51½	-				
	N	eL_R		53½	-				
	ZE	eL_R		54½	-				
	N	M		58	54	20	+360		
	Z	M	09	03	31	18	+460		
	E	M			40	13	+210		
		F	12	00	-				
21	ZNE	eL	23	13	-				
		F		25	-				
25	Z	$iPKP_1$	20	52	53			(18800)	
	Z	$iPKP_2$		54	(01)				
	Z	iPKS		56	29				
	ZN	iPP		57	36				
	Z	i		59	59				
	NE	ePPP	21	01	(31)				
	N	eSKKS		04	25				
	E	e(SKKKS)		05	(11)				
	N	i			56				
	N	iSKKS		06	21				
	N	e		07	56				
	E	ePPS		11	(33)				
	E	e		15	(11)				
	N	eSSS		26	(40)				
	E	e		30	(10)				
	N	eL		52	-				
	E	M	22	07	29				
	N	M		08	39				
	Z	M		12	28				
		F	23	55	-				
27	ZN	eL	17	52	-				
		F	18	05	-				
27	ZN	eL	20	44	-				
		F		50	-				
28	ZNE	eL	03	56	-				
		F	04	05	-				
29	ZNE	eL	07	58	-				
		F	08	15	-				

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN FOR APRIL, 1947

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.
✓ 2	ZNE	ePP	05	59	25			13300	
	ZNE	ePKS	06	01	28				
	E	ePPP			43				
	E	e		02	30				
	E	e		03	36				
	E	eSKS		05	12				
	NE	iSKKS		06	21				
	NE	i		07	15				
	Z	iPS		09	08				
	NE	iPS			11				
	NE	e(PPS)		10	(35)				
	E	eSS		14	55				
	ZN	eSS		15	48				
	E	eSSS		19	10				
	NE	eL_Q		27	-				
	ZNE	eL_R		35	-				
	Z	M		54	19	16	-150		
	N	M			23	16	-90		
	E	M		55	12	17	-65		
		F	09	30	-				
✓ 2	Z	iP	20	58	00			10100	Compression
	Z	ePP	21	01	(40)				
	E	iSKS		03	38				
	ZNE	eS		09	(05)				
	ZNE	iPS		10	02				
	Z	eSS		15	(10)				
	ZN	eSSS		18	(40)				
	ZNE	eL_R		29	-				
	N	M		42	15	19	+33		
	Z	M		43	45	15	+39		
	E	M			49	16	+27		
		F	22	15	-				

Form 3717.

DS.37548-1.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	ZNE	eL	01	51	-				
		F	02	20	-				
8	ZN	eL	00	35	-				
		F		40	-				
9	ZNE	eL	15	01	-				
		F		20	-				
✓ 10	Z	iP	16	10	03			8700	Compression
	ZNE	iS		19	59				
	ZNE	eSSS		28	(42)				
	ZNE	eL		37	-				
	N	M		41	05	24	+51		
	Z	M		42	03	19	+32		
	E	M			12	18	-16		
		F	18	10	-				
11	ZNE	eL	00	55	-				
		F	01	20	-				
✓ 11	Z	eP	14	42	(37)				
	Z	ePP		46	38				
	NE	eSKS		53	11				
	ZE	eS			(30)				
	Z	iPS		54	46				
	NE	iPS			51				
	ZNE	ePPS		55	10				
	ZNE	e(SSS)	15	05	-				
	ZNE	eL_R		14	-				
	N	M		28	51	16	+29		
	Z	M			52	16	-51		
	E	M			56	16	-18		
		F	16	15	-				
12	ZE	iP	14	10	02			2400	
	ZNE	eS		13	58				
	ZNE	eL		16	-				
	N	M		17	04	18	-20		
	Z	M		18	36	10	+25		
		F	15	00	-				
12	ZNE	eL	16	12	-				
		F		35	-				
13	ZNE	eL	04	39	-				
		F	05	25	-				
14	ZNE	eL	04	23	-				
		F	05	25	-				
✓ 14	ZNE	iP	07	27	52			9050	Dilatation
	Z	e		29	34				
	ZN	ePP		31	02				
	N	ePPP		32	(42)				
	ZNE	iS		38	05				
	ZNE	iPS		39	01				
	ZNE	iPPS			20				

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
14 (cont'd)	ZN	eSS	07	43	(42)				
	ZN	eSSS		47½	-				
	ZNE	eLQ		51	-				
	ZNE	eLR		55	-				
	E	M	08	00	49	24	+59		
	N	M			52	25	-105		
	Z	M		09	34	18	-78		
		F	10	50	-				
16	ZNE	eL	13	30	-				
		F		50	-				
19	ZNE	eL	17	59	-				
		F	18	10	-				
19	Z	eP	20	33	06			2300	
	ZE	eS		36	53				
	ZN	iSSS		38	12				
	E	iSSS			(22)				
	N	M		41	23	16	-30		
	E	M		42	42	12	-14		
	Z	M		43	34	13	+20		
		F	21	00	-				
22	ZNE	eL	19	28	-				
		F		35	-				
23	NE	eL	08	07	-				
		F		25	-				
24	ZNE	iP	19	44	37			5900	Dilatation
	E	i		44	58				
	NE	eP_cP		45	25				
	N	ePP		46	(20)				
	ZNE	ePPP		47	26				
	E	iP_cS		49	23				
	ZNE	e		50	24				
	ZNE	iS		52	06				
	N	eSS		55	(40)				
	ZN	eLQ		58	-				
	ZNE	eLR	20	00	-				
	E	M		02	40	20	+76		
	N	M		03	13	21	-85		
	Z	M		04	08	17	+105		
		F	22	15	-				
26	ZNE	eL	13	40	-				
		F	14	15	-				
26	ZNE	eL	18	28	-				
		F		50	-				
29	NE	eL	06	21	-				
		F		45	-				
30	ZNE	eL	05	26	-				
		F		55	-				

FORM 3718.

05 37548-1.

M.O. 491

AIR MINISTRY, METEOROLOGICAL OFFICE,

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY, 1947

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.
2	Z	eP	02	30	35			7950	
	ZE	eS		39	51				
	E	ePS		40	07				
	Z	eSSS		49	(10)				
	ZNE	eL		54	-				
		F	03	50	-				
2	ZNE	eL	14	44	-				
		F	15	10	-				
3	ZNE	eL	04	27	-				
		F		40	-				
3	E	e	09	59	07				
	Z	eL	10	18	-				
		F		55	-				
4	ZNE	eL	23	07	-				
		F		20	-				
6	Z	eP	20	46	34			14100	Dilatation
	Z	iPKP		49	52				
	ZNE	iPP		51	54				
	ZN	i(PKS)		53	04				
	ZN	ePPP		54	42				
	ZNE	eSKKS		58	(18)				
	NE	ePS	21	01	(38)				
	ZNE	ePPS		03	23				
	N	eSS		09	-				
	NE	eSSS		14	-				
	ZNE	eL_R		31	-				
	E	M		44	41	21	+75		
	N	M		45	01	24	-155		
	Z	M			51	22	+150		
7		F	01	30	-				

Form 3717.

M.O. 491

KEW OBSERVATORY, RICHMOND, SURRI

SEISMOLOGICAL BULLETIN.

MAY, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
8	Z	e	18	56	44				
	ZNE	eL	19	06	-				
		F	20	10	-				
8	ZNE	eL	23	46	-				
9		F	00	10	-				
9	ZNE	i	00	17	00				
	ZNE	eL		32	-				
		F	01	30	-				
9	ZNE	eL	12	41	-				
		F	13	00	-				
9	ZNE	eL	14	14	-				
		F		35	-				
9	ZNE	eL	14	47	-				
		F	15	15	-				
10	ZNE	eL	00	39	-				
		F	01	25	-				
10	ZNE	eL	02	55	-				
		F	03	20	-				
11	ZNE	eP	06	35	23			1950	Small pulse
	ZNE	i		36	29				
	Z	ePP		37	02				
	NE	eS		39	42				
	ZNE	e			50				
	ZN	eSS		40	24				
	Z	eL		41	(23)				
	NE	eL		42	-				
	N	M		44	17	14	-43		
	Z	M			51	11	+20		
	E	M		45	01	12	+29		
		F	08	05	-				
11	ZNE	eL	18	54	-				
		F	21	45	-				
11	ZNE	eL	23	07	-				
12		F	00	35	-				
12	ZNE	eL	11	13	-				
		F	12	15	-				
12	ZNE	eL	14	55	-				
		F	15	30	-				
14	ZNE	eL	02	28	-				
		F	04	35	-				
16	Z	eL	18	12	-				
		F		20	-				
16	ZNE	eL	04	24	-				
		F		40	-				

FORM 3718.

DS 37548-1.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
17	Z	ePKP1	07	26	(42)			18200	Compression
	Z	iPKP2		27	47				
	Z	ePKS		30	(17)				
	ZN	ePP		31	47				
	E	e		34	(57)				
	ZN	ePPP		35	37				
	N	eSKKS		38	(37)				
	Z	ePPS		45	27				
	NE	eSS		53	-				
	ZN	eSSS		58½	-				
	ZNE	eL	08	27	-				
	N	M		46	00	21	+54		
	Z	M		53	14	20	+72		
	E	M	09	01	12	17	+36		
		F	11	00	-				
24	ZNE	eL	00	28	-				
		F	01	15	-				
25	Z	eL	12	52	-				
		F	13	20	-				
25	ZNE	eL	23	51	-				
26		F	00	20	-				
26	Z	eL	00	47	-				
		F	01	00	-				
26	ZNE	eL	11	44	-				
		F	12	15	-				
26	Z	iP	20	01	30				Deep focus.
	Z	i			56				
	Z	e		05	30				
	Z	e		12	(59)				
	Z	e		15½	-				
	Z	eL		35	-				
		F	21	00	-				
27	Z	i	03	54	51				Compression, Deep focus.
	ZN	i		55	(15)				
	Z	i		58	03				
	Z	e	04	01	35				
	ZNE	i		04	21				
	ZNE	eL		35	-				
		F	05	10	-				
27	Z	e(P)	06	14	(10)			13000	
	ZNE	ePP		19	01				
	NE	ePPP		21	(15)				
	ZNE	eSKS		25	(03)				
	NE	eSKKS		26	11				
	E	ePS		28	(35)				
	NE	eSS		35	(05)				
	Z	eSSS		39½	-				
	NE	eLQ		48	-				
	ZNE	eLR		54	-				
	N	M	07	00	04	25	+285		
	E	M		01	55	22	+130		
	Z	M		12	12	22	+170		
		F	10	30	-				

SEISMOLOGICAL BULLETIN.

DATE.	COMP'T.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
27	ZNE	eL	21	38	-				
		F		55	-				
28	Z	i(PKP_1)	15	07	43			(18000)	Compression
	Z	e(PP)		11	47				
	Z	e(SSS)		40½	-				
	ZNE	eL_R	16	09	-				
		F	17	10	-				
30	Z	eL	00	00	-				
		F		20	-				
30	ZNE	eL	14	08	-				
		F	15	20	-				
30	ZNE	eL	22	35	-				
		F		45	-				

FORM 3718.

DS 37548-1.

KEW OBSERVATORY, RICHMOND, SUR

SEISMOLOGICAL BULLETIN FOR JUNE, 1947

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	ZNE	eP	11	23	39			2400	
	Z	iPP		24	15				
	Z	iPPP			27				
	ZNE	eS		27	(27)				
	ZNE	eL		29	-				
	N	M		31	40	16	-26		
	Z	M		33	19	20	+22		
		F	12	20	-				
1	ZNE	eL	19	25	-				
		F		40	-				
2	NE	e(S)	06	56	30				
	N	M	07	09	42	16	+23		Z-Component out of action from 1.6. (20h. 40m) to 2.6.(09h.40m.)
	E	M		12	42	16	-28		
		F	08	10	-				
3	Z	eL	02	00	-				
		F		05	-				
3	ZNE	eL	04	05	-				
		F		35	-				
3	ZNE	eL	06	04	-				
		F		25	-				
4	ZNE	iP	00	34	29				
	ZE	iPP			46			2400	Dilatation
	ZNE	ePPP		35	02				
	ZNE	iS		38	26				
	ZNE	eL		39	-				
	N	M		41	33	13	+51		
	E	M		42	55	10	+22		
	Z	M		43	17	10	-36		
		F	02	10	-				

Form 3717.

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	ZNE	eL	06	08	-				
		F		55	-				
4	ZNE	eL	10	39	-				
		F		45	-				
4	Z	eL	15	11	-				
		F		40	-				
5	ZNE	eL	23	37	-				
6		F	00	00	-				
6	ZNE	eL	01	10	-				
		F		25	-				
7	ZNE	eL	05	47	-				
		F	06	05	-				
7	Z	i(PP)	19	07	00			(11000)	Dilatation
	NE	e(SKS)		13	24				
	ZN	i(PS)		15	52				
	ZNE	eL		30	-				
	N	M		43	37	22	+115		
	E	M		53	57	17	-20		
	Z	M		54	01	16	+42		
		F	21	40	-				
10	ZNE	eL	11	31	-				
	Z	M	12	17	56	17	-16		
		F	13	50	-				
10	Z	iP	19	45	51			2750	Compression
	Z	iPP		46	18				
	ZNE	eS		50	15				
	NE	eSS			41				
	Z	eL_R		52	-				
	N	M		53	28	14	-10		
	Z	M		54	32	11	+10		
	E	M			34	11	-11		
		F	21	00	-				
11	ZNE	eL	22	50	-				
		F		55	-				
12	ZNE	eL	06	37	-				
		F	07	00	-				
12	Z	iP	09	17	06			12300	Dilatation
	ZE	ePP		21	47				
	ZNE	i		22	41				
	E	ePPP		23	(53)				
	ZE	e		25	59				
	ZNE	eSKS		27	38				
	NE	eSKKS		28	(33)				
	Z	eS			(53)				
	N	e		29	13				
	Z	iPS		30	59				
	Z	iPPS		32	05				
	E	eSS		37	(03)				
	E	eSSS		41	(33)				

SEISMOLOGICAL BULLETIN.

JUNE, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12 (cont'd)	N	eL_Q	09	48	-				
	NE	eL_R		53	-				
	Z	eL_R		55	-				
	E	M	10	11	08	19	+32		
	N	M			23	20	+54		
	Z	M			27	19	+58		
		F	14	30	-				
12	Z	eL	20	12	-				
		F		20	-				
13	ZNE	eL	16	09	-				
		F		30	-				
13	ZN	iP	20	38	44			11200	Dilatation
	ZNE	iPP		42	56				
	Z	ePPP		44	(57)				
	N	eSKS		49	(37)				
	E	iSKKS		50	12				
	NE	eS			(32)				
	ZN	ePS		52	02				
	ZNE	ePPS			37				
	NE	eSS		57	(12)				
	ZNE	eL_R	21	12	-				
	N	M		32	41	18	+34		
	Z	M		36	42	18	+47		
	E	M			46	16	+34		
14		F	00	10	-				end masked by next shock.
14	Z	ePP	00	08	24				
	Z	e		10	12				
	ZNE	ePPP			36				
	NE	eSKS		14	48				
	NE	eS		15	56				
	ZNE	ePS		17	27				
	NE	eSS		22	(32)				
	ZNE	eL_R		$38\frac{1}{2}$	-				
	E	M		53	45	16	-14		
	N	M		55	44	18	+17		
	Z	M		58	46	15	-19		
		F	03	45	-				
14	ZNE	eL	08	23	-				
		F		50	-				
14	ZNE	eL	16	48	-				
		F	18	25	-				
15	ZE	eL	00	30	-				
16		F	01	25	-				
16	ZNE	eL	22	00	-				
		F		45	-				
17	Z	eL	14	56	-				
		F	15	20	-				
19	ZE	eL	02	33	-				
		F	04	20	-				

FORM 3718.

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

JUNE, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	Z	iP	07	48	41			(11000)	Dilatation. North-component out of action.
	ZE	e(PP)		52	(44)				
	ZE	i(PPP)		54	58				
	E	e(S)	08	00	06				
	ZE	e(PS)		01	(34)				
	E	e(PPS)		02	(44)				
	NE	eL R		24	-				
	Z	M		42	56	15	+21		
	E	M		46	12	18	+16		
		F	10	15	-				
19	ZE	eL	23	32	-				
20		F	00	00	-				
20	ZNE	eL	12	55	-				
		F	13	20	-				
20	ZE	eP	13	41	(55)			4200	
	ZE	ePP		43	(35)				
	ZE	eS		47	51				
	ZNE	eL		53½	-				
		F	15	00	-				
20	ZE	eL	17	19	-				
		F		50	-				
20	ZE	eL	19	53	-				
		F	20	20	-				
20	ZE	eL	22	17	-				
		F		30	-				
20	ZE	i(P)	23	14	44			(2650)	
	ZNE	e(S)		19	00				
	ZNE	e(L)		21	-				
21		F	00	15	-				
21	ZNE	eL	01	07	-				
		F		45	-				
22	ZN	eL	02	27	-				
		F		40	-				
22	Z	i	18	21	04				
	ZN	eL	19	20	-				
		F	20	30	-				
23	ZNE	eL	08	57	-				
		F	09	10	-				
23	ZE	eL	19	38	-				
		F		45	-				
23	ZE	eL	22	07	-				
		F		15	-				
25	Z	eL	23	33	-				
		F		55	-				

FORM 3718.

05 37548-1.

KEW OBSERVATORY, RICHMOND, SU

SEISMOLOGICAL BULLETIN.

JUNE, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
27	ZNE	eL	11	14	-				
		F		30	-				
28	ZE	i(PKP)	02	16	00				
	ZE	e(PP)			59			(12000)	Compression
	Z	e(SKS)		22	(39)				
	ZNE	eL		48	-				
		F	03	20	-				
28	ZNE	e	11	16	51				
	ZNE	e		17	15				
		F		22	-				
28	ZE	eL	19	28	-				
		F		40	-				
28	ZNE	eL	22	31	-				
		F		45	-				
30	ZNE	eL	08	11	-				
		F	09	25	-				

FORM 3718.

M.O. 491

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY, 1947

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	Z	i	00	00	44				
	Z	e		02	03				
		F		05	-				
4	ZNE	eL	20	18	-				
		F		25	-				
7	Z	eL	10	23	-				
		F		30	-				
7	Z	eP	22	40	24			2450	Dilatation
	E	ePP		41	15				
	ZE	e			(51)				
	ZNE	iP$_c$P		44	13				
	E	iS			23				
	ZN	eL		47	-				
		F	23	10	-				
9	ZNE	eL	18	47	-				
		F	19	20	-				
10	Z	i	10	29	12				
	ZNE	eL		43½	-				
		F	12	20	-				
10	ZE	iP	16	17	24			9100	
	ZE	e(S)		27	(46)				
	Z	e(SS)		32	(45)				
	ZNE	eL		16	45				
		F	17	50	-				
10	Z	eL	13	01	-				
		F		10	-				
11	Z	eL	00	00	-				
				05	-				

Form 3717.

05.37548-1

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12	ZN	iP	02	11	04			(8900)	Compression
	ZN	iP_cP			21				
	ZNE	eS		21	(08)				
	Z	eSSS		31	-				
	ZNE	eL		42	-				
	Z	F	03	35	-				
12	ZE	$iPKP_1$	12	49	27			(17000)	Dilatation
	ZNE	$iPKP_2$			54				
	ZE	e		51	42				
	Z	ePP		53	(26)				
	ZNE	eL	13	50	-				
		F	15	25	-				
13	ZNE	eL	07	08	-				
		F		25	-				
13	ZE	$iPKP_1$	13	17	09			(17000)	Deep Focus ?
	Z	$iPKP_2$			(47)				
		F	15	30	-				
14	ZN	eL	12	00	-				
		F		15	-				
16	Z	e(P)	19	33	27				
	ZNE	eL	20	07	-				
		F		45	-				
17	ZNE	eL	05	03	-				
		F	07	00	-				
17	ZNE	eL	10	15	-				
		F		35	-				
21	Z	i	00	53	(00)				
	Z	i		56	(40)				
		F	01	20	-				
21	ZNE	eL	09	42	-				
		F	10	00	-				
23	ZNE	eL	05	42	-				
			06	10	-				
23	Z	e(PP)	17	32	00			12000	
	ZNE	e(PPS)		41	(52)				
	ZNE	eL		59	-				
	Z	M	18	15	24	17	+16		
		F	20	25	-				
24	ZNE	eL	01	53	-				
		F	02	00	-				
24	ZNE	eL	09	08	-				
		F	10	55	-				
24	ZNE	i	10	59	39				
	Z	e	11	03	(00)				
		F	11	20	-				

FORM 3718.

DS 37548-1.

M.O.4

KEW OBSERVATORY, RICHMOND, SURREY

SEISMOLOGICAL BULLETIN.

JULY, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24	ZNE	i	11	20	53				end masked by subsequent shock.
		eL		45	-				
		F	12	(40)	-				
24	ZNE	i	12	36	33				Dilatation
	ZNE	eL	13	25	-				
	Z	M		42	40	20	+20		
		F	16	00	-				
24	Z	eL	16	48	-				
		F	17	00	-				
24	ZNE	eL	22	51	-				
		F	23	20	-				
25	Z	e	01	19	02				
	Z	eL		22	-				
		F		30	-				
25	Z	eL	01	32	-				
		F		55	-				
25	ZE	eL	07	02	-				
		F		15	-				
25	Z	i	19	21	06				
	Z	e		23	13				
25	ZE	i	19	25	02				
25	ZNE	i	19	29	45				
	ZNE	eL		37	-				
		F	20	25	-				
26	Z	e	12	07	30				
	ZNE	eL		38	-				
		F	13	25	-				
26	ZNE	eL	17	06	-				
		F		40	-				
26	ZNE	eL	23	16	-				
27		F	00	55	-				
28	NE	eL	07	47	-				
		F	08	15	-				
29	Z NE	iP	13	54	37			7800	Compression. Azimuth probably North-East.
	Z	i			53				
	Z	i		55	33				
	Z	i		56	41				
	ZE	iPP		57	24				
	ZE	ePPP		59	(06)				
	NE	iS	14	03	48				
	E	ePS		04	(06)				
	Z	iSKS			44				
	N	eSS		08	04				
	NE	eSSS		11	22				

FORM 8718.

DS 37548-1.

M.O. 491

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

JULY. 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
29 (cont)	NE	eLQ	14	13½	-				
	Z	eL$_R$		22	-				
	N	M		30	08	15	-195		
	E	M		31	03	16	+155		
	Z	M		32	53	16	-290		
		F	19	20	-.				
30	ZNE	eL	00	34	-				
		F	01	00	-				
30	ZNE	eL	08	30	-				
		F		50	-				
30	NE	eL	21	45	-				
		F	22	00	-				
30	ZNE	eL	22	36	-				
		F		50	-				
31	ZNE	eL	10	40	-				
		F		55	-				
31	ZE	eL	14	36	-				
		F	15	20	-				

FORM 3718.

DS 37548 - I.R.139.125. 9/47. C.

M.O. 449

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST 1947

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 FURST 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.
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	ZNE	e	01	13	15				
	ZNE	e		14	06				
	ZN	eL		15½	–				
		F		30	–				
1	ZE	e	03	14	46				
	ZNE	eL		20	–				
		F		30	–				
1	Z	eL	04	43	..				
		F	05	00	–				
1	ZNE	eL	05	50	–				
		F	06	20	–				
1	ZNE	eL	15	05	–				
		F		35	–				
2	ZNE	eL	01	39	–				
		F	02	10	–				
2	Z	e	02	38	50				
	ZNE	eL		44	–				
		F	03	10	–				
2	Z	eL	06	22	–				
		F		30	–				
4	ZNE	eL	18	30	–				
		F	19	10	–				

Form 3717.

DS 38034/1

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
5	ZNE	iP	14	33	41			6000	Compression
	NE	i		34	09				
	E	iP_cP		35	(16)				
	ZE	iPP		36	(00)				
	NE	ePPP			53				
	ZNE	iS		41	17				
	NE	eSS		45	(00)				
	NE	eSSS		47½	-				
	ZNE	eL_R		49½	-				
	N	M	15	01	08	20	+195		
	E	M		07	03	16	+ 82		
	Z	M			10	15	-160		
		F	19	20	-				
6	NE	iP	05	58	37			(9500)	Dilatation
	ZE	i(PP)	06	00	45				Deep Focus: about 600 Km.
	Z	e(sP)		01	45				
	ZE	e(PPP)		04	49				
	E	iSKS		08	(01)				
	ZNE	iS			17				
	Z	i(SKSP)		09	18				
	ZNE	eSS		12	(00)				
	ZNE	eSSS		20½	-				
		F	07	00	-				
6	ZNE	eL	09	53½	-				
	E	M	10	00	16	10	+11		
		F	11	25	-				
7	ZE	eP	00	51	08			7350	
	ZE	ePP		53	30				
	Z	ePPP		55	(02)				
	ZNE	iS		59	54				
	Z	ePS	01	00	(00)				
	E	eSS		04	(00)				
	ZNE	eSSS		07	-				
	ZNE	eL_R		10	-				
	Z	M		17	46	18	+19		
	E	M			54	16	- 14		
		F	03	25	-				
7	Z	e	12	33	30				
	Z	e		34	(22)				
	ZNE	eL		36½	-				
		F	13	25	-				
7	ZN	eL	15	05	-				
		F		10	-				
9	Z	eP	02	57	58			6300	
	ZE	ePPP	03	01	22				
	Z	eP_cS		03	(07)				
	E	eS		05	50				
	ZN	ePS			53				
	Z	e		07	18				
	NE	eSS		09	(32)				
	NE	eL_Q		12	-				
	ZNE	eL_R		14	-				
		F	04	25	-				

FORM 3718.

DS 38034/1

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. AUGUST 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	ZNE	eL	07	13	-				
		F		30	-				
12	ZNE	eL	16	07	-				
		F		30	-				
15	ZE	iP	04	17	29			3350	
	ZE	e		18	(17)				
	ZE	ePPP			49				
	ZNE	eS		22	37				
	ZNE	eSSS		25	(07)				
	NE	eL_R		25½	-				
		F	05	45	-				
15	ZNE	eL	09	53	-				
		F	10	55	-				
16	ZNE	eL	06	10	-				
		F		55	-				
17	ZNE	e	09	28	(08)				
	E	e		46	(38)				
	ZNE	eL		49	-				
		F	10	50	-				
17	Z	eP	15	08	52			(2400)	
	ZNE	$e(P_cP)$		12	31				
	E	e(S)			48				
	ZNE	eL_R		14½	-				
		F		35	-				
18	ZNE	eL	07	01	-				
		F		35	-				
19	ZNE	eL	20	38	-				
		F		55	-				
22	Z	ePKP	02	50	(41			15400	
	ZNE	ePP		53	(31				
	ZNE	iPKS		24	(21				
	Z	ePPP		56	43				
	ZN	ePP^S	03	05	40				
	E	eSSS		17½	-				
	ZNE	eL		42	-				
		F	05	00	-				
23	ZNE	eL	05	04	-				
		F	06	05	-				
23	NE	eL	06	59	-				
		F	07	05	-				
24	Z	iP	11	46	32			6100	Short-Period Vertical Instrument.
	ZNE	iS		54	(12				
	NE	eS_cS		56	25				
	ZNE	eSS		58	(22				
	ZE	e		59	16				
	ZNE	eL	12	02½	-				
	N	M		08	12	13	-19		
		F	13	15	-				

FORM 3718.

DS 38034/1

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

August 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZNE	eL	06	06	-				
		F		25	-				
27	ZE	i(P)	13	57	49			(14000)	Dilatation
	Z	i		58	56				Short-Period Vertical.
	ZNE	i(PP)	14	02	44				
	N	e(SKS)		07	(44)				
	Z	e		09	(14)				
	NE	e(PS)		13	(15)				
	ZE	eL		46	-				
		F	17	30	-				
28	ZNE	i(P)	07	02	(15)				
	ZNE	i(P_cP)			(33)				
	NE	e(PPP)		07	30				
	NE	e(S)		12	04				
	E	e(PS)			24				
	ZNE	e(PPS)			51				
	N	e(SS)		17	(15)				
	NE	eL		30	-				
	Z	eL		34	-				
	N	M		42	10	19	-22		
		F	08	40	-				
28	ZNE	iP	14	41	11			9450	Compression.
	ZNE	ePPP		46	(15)				
	ZNE	eS		51	43				
	E	ePPS		52	(45)				
	E	eSSS	15	00	(45)				
	NE	eL_Q		03	-				
	ZE	eL_R		08	-				
	N	M		17	16	20	-10		
		F	16	15	-				
28	ZNE	eL	20	35	-				
		F	21	20	-				
29	N	eL	21	53	-				
		F	22	05	-				
30	ZNE	iP	22	26	47			2680	Dilatation
	ZNE	iPP		27	18				
	NE	i		30	58				
	ZN	iS		31	06				
	N	eL		32	-				
	N	M		36	38	18	-105		
	Z	M		38	15	10	+67		
	E	M		39	13	11	+58		
31		F	00	10	-				

FORM 8718.

DS 38034/1/R139 125 9/47 DL

SEISMOLOGICAL BULLETIN FOR SEPTE

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	ZNE	eL	07	02	-				
		F		15	-				
2	ZNE	eL	15	25	-				Instruments out of action from 14h. 12m. to 15h. 25m.
		F	17	00	-				
3	ZNE	eL	16	05	-				
		F	17	20	-				
3	Z	ePKP	19	15	42			15500	
	Z	e			56				
	ZN	iPP		18	37				
	ZN	ePKS		19	(22)				
	N	e(SKSP)		28	(47)				
	ZNE	eL_R		58	-				
		F	21	40	-				
4	ZN	e	00	53	(07)				
	ZNE	eL	01	38	-				
		F	02	55	-				
4	ZNE	eL	15	34	-				
		F	16	15	-				
9	ZNE	eL	09	02	-				
		F		30	-				
9	ZN	eL	23	47	-				
10		F	00	05	-				
10	E	e(P)	00	09	(18)			(7350)	Small. In minute time break.
	NE	e(S)		18	05				
	ZN	e(SS)		21	38				
	N	eL		26	-				
	ZE	eL		29	-				
		F	01	15	-				

Form 3717.

OS 42839 - 1

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
11.	ZNE	eL	08	04	-				
		F		20	-				
12	ZNE	eL	11	05	-				
		F		20	-				
13	ZE	eL	12	16	-				
		F		28	-				
15	ZNE	e(P)	15	16	07			(2000)	
	ZNE	e(S)		19	31				
	NE	e(SS)			41				
	ZNE	e(SSS)		20	01				
	ZE	eL		21	-				
		F		55	-				
15	ZNE	eL	10	45	-				
		F	11	20	-				
15	ZN	eL	23	11	-				
		F		20	-				
17	ZNE	eL	17	58	-				
		F	19	30	-				
19	ZNE	eL	07	43	-				
		F	08	05	-				
20	ZNE	eL	19	45	-				
		F	20	10	-				
20	ZNE	eL	19	25	-				
		F	20	10	-				
21	Z	eL	00	17	-				
		F		30	-				
23	ZNE	eL	01	19	-				
		F		30	-				
23	ZE	iP	12	36	37			5000	
	ZNE	iPP		38	16				
	ZNE	iP_cS		42	19				
	ZNE	eS		43	18				
	ZNE	eSS		46	52				
	ZE	eSSS		48	(22)				
	E	eL_R		52	-				
	N	M	12	59	56	17	-126		
	E	M	13	00	18	15	-76		
	Z	M		06	37	16	-79		
		F	16	15	-				
25	ZE	e(P)	23	50	(03)			(15000)	
	ZE	e(PKP)		52	(53)				
	E	e(PP)		55	(38)				
	E	e(PPP)		58	(29)				
	ZE	e(SKS)		59	(58)				
	Z	e(PPS)	00	07	(31)				
	ZN	e(SS)		13	(23)				
	ZNE	(L_Q)		28	-				

M.O. 491

KEW OBSERVATORY, RICHMOND, SURRE.,

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLI-TUDE. μ	Δ km.	REMARKS.
25 (cont)	ZE	L_R	00	40	-				
	N	M		30	52	24	+28		
	Z	M		46	22	19	-22		
		F	02	15	-				
26	Z	i(P)	03	12	58				Short-period vert. inst.
	ZE	e		22	(59)				
	ZE	e		24	(43)				
	ZN	eL		30	-				
	N	M		35	34	17	+17		
	Z	M		39	21	14	-11		
		F	05	00	-				
26	ZN	eL	07	15	-				
		F	08	30	-				
26	ZNE	iP	16	14	45			(10000)	Compression. Deep Focus: about 150 Km.
	E	iP_cP			54				
	ZNE	i(pP)		15	19				
	ZNE	iPP		18	17				
	E	i(pPP)			43				
	Z	e		20	(53)				
	NE	i		24	41				
	ZNE	i(SKS)		25	03				
	NE	e			15				
	NE	i(S)			(23)				In minute time break.
	E	e			35				
	Z	i(PS)		26	37				
	N	eSS		31	(23)				
	N	eL_Q		38	-				
	ZN	eL_R		40	-				
	E	M		48	05	10	+17		
	N	M		50	54	28	-155		
	Z	M	17	00	29	14	-56		
			19	20	-				
28	ZNE	eL	04	34	-				
		F	05	20	-				

FORM 3718.

OS 42839-1. R139. 125. 10/42. C.L.

M.O. 491

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER, 1947.

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	8.2	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	ZN	e	12	50	(54)				
	ZE	e		51	(06)				
	ZN	e		53	(59)				
		F	14	35	-				
3	ZNE	iP	06	22	44			(6400	Compression
	ZE	i(PcP)		23	39				Focal depth (570 Km.)
	ZE	e(pP)		24	(34)				
	ZNE	e(sP)		25	(38)				
	ZNE	e(ScP)		26	(39)				
	ZNE	eS		29	(54)				
	N	e(ScS)		31	(24)				
	ZN	i(sS)		33	17				
	ZNE	e(SS)		34	(04)				
	NE	e(SSS)		38	-				
	N	M		44	43	21	+24		
		F	08	00	-				
3	ZE	iP	23	44	30			9200	Compression
	E	iPcP			(38)				Focal depth (90 Km.)
	Z	epP			(53)				
	Z	epPcP		45	00				Short-period vertical instr.
	Z	isP			05				
	E	ePP		47	(54)				
	Z	epPP		48	(09)				
	ZE	ePPP		49	(37)				
	ZE	eS		54	(41)				
	ZE	eSP		55	(36)				
	E	iPS			47				
	E	e SSP or SPS		56	10				
4	ZE	e(LR)	00	09	-				
	ZE	e(SKKS)		14	(24)				
		F	01	10	-				

Form 3717.
DS 44065/1/R 139 125 11/47 CL

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	ZNE	eL	15	43	-				
		F	16	35	-				
4	ZNE	eL	15	56	-				
		F	18	00	-				
5	Z	e	19	01	(04)				
	ZNE	eL		40	-				
		F	21	45	-				
6	ZNE	iP	20	00	(24)			(2400)	In minute time-break.
	ZNE	eS		04	(20)				
	ZNE	eL		05	-				
	N	M		09	(31)	20	-600		
	E	M			42	14	-125		
	Z	M		11	03	18	+210		
	N	(L_2)	22	45	-				
	ZN	(L_3)	23	02	-				
7		F	00	15	-				
7	ZN	eL	02	25	-				
		F	03	05	-				
7	ZN	eL	19	08	-				
		F		25	-				
10	Z	iP	07	44	(24)			9300	In minute time break.
	Z	iPcP			30				Focal depth about 300 Km.
	Z	ipP		45	(34)				Only short-period vertical
	Z	ipPcP			(48)				instr. available for Z
	Z	isP		46	(06)				pulses.
	Z	isPcP			(16)				
	NE	eS		54	(22)				
	NE	e(SS)		59	(49)				
	NE	e(SSS)	08	03	(24)				
	E	eL_Q		$05\frac{1}{2}$	-				
	N	eL_R		$08\frac{1}{2}$	-				
	N	M		18	06	23	+22		
		F	09	05	-				
13	ZNE	eL	08	15	-				
		F	09	47	-				
14	Z	e(P)	02	01	(23)				In minute time-break
	Z	i		02	29				
	Z	e		05	55				
	ZN	e		09	(11)				
	ZE	e		13	(28)				
	ZN	e		16	(28)				
	N	e		20	(37)				
	ZNE	e		$25\frac{1}{2}$	-				
	Z	M	03	14	20	18	-11		
		F	04	15	-				
14	N	e	22	56	(43)				
	ZNE	eL		58	-				
		F	23	20	-				
15	ZNE	eL	20	06	-				
		F		45	-				

FORM 3718.

DS 44065/1/R139 125 11/47 CL

M.O. 452

KEW OBSERVATORY, RICHMOND, SURREY

SEISMOLOGICAL BULLETIN.

OCTOBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
16	ZNE	iP	02	20	07			(7000)	Compression
	E	ePcP			37				
	ZNE	ePP		22	(23)				In minute time-break.
	ZNE	e(S)		28	(35)				
	NE	eSS		32	37				
	ZNE	eSSS		34½	-				
	ZNE	eLR		38½	-				
	E	M		40	44	26	+145		
	N	M		43	02	24	+245		
	Z	M		51	48	16	+150		
		F	07	15	-				
17	ZNE	eL	09	54	-				
		F	10	30	-				
17	ZE	e	13	33	(03)				
		F	14	00	-				
17	ZNE	eL	14	42	-				
		F	15	10	-				
20	ZN	iP	01	53	37			6900	Dilatation.
	Z	iPcP		54	16				
	ZN	ePP		56	(05)				
	ZNE	ePPP		57	(27)				
	Z	ePcS		58	10				
	ZNE	eS	02	02	(02)				
	N	ePPS			33				
	E	eScS		03	(14)				
	ZNE	eSS		06	(07)				
	ZE	eSSS		08	(40)				
	ZNE	eLR		12	-				
	N	M		16	(08)	26	+49		In minute time-break.
	Z	M			28	28	+54		
	N	M		19	57	23	+49		
	E	M		22	36	19	-15		
		F	05	00	-				
21	ZNE	eL	10	22	-				
		F	11	15	-				
22	E	eL	17	35	-				
	ZNE	eL	18	30	-				
		F	19	25	-				
23	ZNE	eL	13	25	-				
		F	13	35	-				
24	ZNE	eL	17	54	-				
		F	19	30	-				
26	ZNE	eL	17	35	-				
		F	18	30	-				
27	Z	i	10	33	24				Short period vertical instr.
	ZNE	eL		37	-				
		F	12	30	-				
27	ZNE	eL	13	49	-				
		F	15	35	-				

FORM 3718

DS 4406 / 1/ D3 125 11/47 CL

KEW OBSERVATORY, RICHMOND, SURREY,

SEISMOLOGICAL BULLETIN.

OCTOBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	ZNE	eL	10	40	--				
		F	13	55	-				
28	ZNE	eL	18	03	-				
		F	20	15	-				
29	ZNE	eL	14	55	-				
		F	15	15	-				

AIR MINISTRY, METEOROLOGICAL OFFICE

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER, 1947

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	Z	e(P)	06	13	(38)			(11000)	Pulse not clear.
	ZE	e(PP)		17	41				
	Z	e(PPP)		19	(17)				
	E	e(SKS)		24	12				
	ZE	e(SKKS)			(32)				
	ZN	e(S)		25	(02)				
	E	e(PS)		26	(47)				
	N	e(SS)		31	(37)				
	Z	e(SKKS return)		36	(57)				
	NE	e(SKKKS)		40	(49)				
	ZE	e(L_R)		45	-				
	N	M	07	02	55	20	+17		
	Z	M		05	33	21	+21		
		F	08	35	-				
1	ZNE	iP	15	11	48			9700	Compression. Destructive in Peru.
	ZN	ePP		15	(17)				In minute time-break.
	ZNE	eSKS		22	(17)				In minute time-break.
	ZN	eS			34				
	Z	ePS		23	35				
	E	eSS		28	(31)				
	ZN	eSSS		32	(02)				
	NE	eL_Q		35	-				
	N	M		49	14	19	+104		
	Z	M		50	11	18	+284		
	E	M			13	17	-71		Negative maximum.
		F	20	(00)	-				
2	ZNE	e	06	56	-				
		F	07	09	-				

M.O. 492

KEW OBSERVATORY, RICHMOND, SURREY, ENG

SEISMOLOGICAL BULLETIN.

NOVEMBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
2	Z	iP	07	12	24			(8700)	Focus probably deeper than normal.
	ZNE	e(Pc P)			(31)				
	Z	e(PP)		15	(30)				
	ZE	e(PPP)		17	(11)				
	E	e(S)		22	(21)				
	ZNE	e(SKS)			(31)				
	NE	e(PS)			(56)				
	ZN	e(PPS)		23	(14)				
	ZNE	e(SS)		26	58				
	E	e(SSS)		30	(36)				
	ZE	eL_R		36½	-				
		F	08	30	-				
3	ZN	eL	12	34	-				
		F	13	20	-				
4	Z	iP	00	21	14			8900	
	ZNE	ePP		24	(22)				
	ZN	ePPP		26	(16)				
	ZNE	iS		31	(16)				In minute time-break.
	ZNE	eSS		36	(56)				
	ZNE	eSSS		40	(16)				
	NE	eL_Q		43	-				
	E	M		54	45	20	-94		Negative maximum
	N	M		56	11	24	-134		
	Z	M		58	56	24	-183		
		F	03	00	-				
5	NE	eL	00	05	-				
		F		20	-				
5	NE	eL	03	02	-				
		F		45	-				
6	ZNE	eL	16	30	-				
		F		37	-				
7	Z	iP	23	13	28			9600	Short period vertical instr.
	E	eSKS		23	(50)				
	N	eS		24	(06)				
	E	ePS			(44)				
	N	eL_Q		35½	-				
	Z	eL_R		40	-				
		F	00	25	-				
8	ZNE	eL	02	27	-				
		F		33	-				
8	ZNE	eL	04	45	-				
		F	05	10	-				
8	ZNE	eL	14	10	-				
		F		25	-				
8	ZNE	eL	16	55	-				
		F	17	10	-				

FORM 3718.

DS. 47603-1.

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLI-TUDE. μ	Δ km.	REMARKS.
9	ZNE	i(PKP)	05	17	36			16600	Dilatation
	Z	e		19	50				
	ZNE	e(PKS)		21	(12)				
	ZE	e(PP)			(32)				
	ZNE	e(PPP) – (SKS)		24	(42)				
	NE	e(SKKS)		28	06				
	N	e(SKKKS)			46				
	NE	e(PSKS)		31	(34)				
	N	e(PPS)		34	18				
	E	i(SS)		40	42				
	N	e(SSS)		46	25				
	ZN	e(L_R)	06	09	-				
	Z	M		26	39	19	+25		
	E	M		28	57	16	+10		
	N	M		29	47	21	+25		
		F	07	45	-				
9	N	(eL)	15	54	-				
	ZNE	(eL)	16	09	-				
		F		30	-				
10	ZNE	eL	03	32	-				
		F	04	01	-				
10	ZE	e(P)	04	03	37			(2900	
	Z	e(PP)		04	(10)				
	NE	e		05	40				
	ZNE	e(PcP)		07	(04)				
	ZNE	e(S)		08	(14)				In minute time-break.
		F	06	15	-				
10	NE	eL	10	43	-				
		F	11	20	-				
11	ZNE	eL	06	48	-				
		F	09	15	-				
11	NE	eL	22	55	-				
		F	23	20	-				
12	NE	eL	01	08	-				
		F		15	-				
12	ZNE	eL	12	03	-				
		F		15	-				
12	ZN	i(PKP_1)	16	37	49			(18000	
	ZNE	i(PKP_2)		38	(43)				
	Z	i(PP)		42	27				
	ZN	i(PKKP)		45	52				
	Z	e(PPP)		46	31				
	E	e(SS)	17	03	(07)				
		F	19	20	-				
13	ZNE	eL	03	54	-				
		F	04	20	-				

FORM 3718.

SEISMOLOGICAL BULLETIN.

N .....

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
14	ZNE	eL	05	53	-				
		F	06	25	-				
14	ZNE	e	11	11	54				Z record incomplete.
	NE	e		17	08				Focus probably deeper than normal.
	NE	eL		31	-				
		F	12	20	-				
15	ZNE	eL	23	50	-				
		F	00	30	-				
16	ZNE	eL	02	30	-				
		F		55	-				
17	ZNE	iP	10	12	32			(3300)	Compression
	NE	e(PcP)		15	44				
	ZNE	e(S)		17	34				
	NE	e(SS)		18	(48)				
	ZNE	e(L_R)		20½	-				
	E	M		23	25	16	-10		
	Z	M		24	21	20	-23		
		F	11	20	-				
20	ZNE	eL	08	28	-				
		F	09	30	-				
21	Z	i(P)	04	07	(08)			(9100)	In minute time-break.
	NE	e(S)		17	(23)				
	E	e(PS)		18	(20)				
	NE	e(PPS)			(43)				
	NE	e(SS)		23	(03)				
	NE	e(SSS)		26	27				
	NE	e(LQ)		29	43				
	NE	e(L_R)		33	-				
	N	M		37	06	20	-22		
	E	M		42	21	16	+11		
	Z	M		48	51	14	-16		
	E	M		52	11	14	+11		
		F	05	50	-				
21	ZNE	eL	19	35	-				
		F	21	25	-				
22	NE	eL	22	23	-				
		F	23	15	-				
23	Z	iP	09	57	00			7500	Short period vertical instr.
	NE	eS	10	05	56				
	E	e(PS)		06	13				
	E	e(PPS)			31				
	NE	e(SS)		10	36				
	NE	e(SSS)		13	(26)				
	ZNE	e(L_R)		17	-				
	N	M		25	51	16	+16		
	Z	M		26	56	13	+24		
	E	M		27	11	14	-19		
		F	11	25	-				

M.O. 491

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
23	ZNE	eL	18	40	-				
		F		55	-				
25	NE	eL	09	18	-				
		F		30	-				
25	ZNE	eL	19	00	-				
		F		10	-				
26	NE	eL	23	33	-				
		F	24	00	-				
29	Z	iP	10	18	46				
	ZNE	e(S)		21	(55)			(1800)	Short period vertical instr.
	N	M		26	01	16	+17		
		F	11	00	-				

FORM 3718.

0547603-1. R139. 125. 12/47. C.L.

AIR MINISTRY, METEOROLOGICAL OFFICE, L

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER, 1947

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.	$\frac{A_0}{\pi i}$
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.
3	NE	eL	13	10	-				
		F		20	-				
3	NE	eL	15	07	-				
		F		30	-				
4	ZNE	eL	17	49	-				
		F	18	05	-				
8	ZNE	eL	18	40	-				
		F	19	25	-				
9	Z	i(P)	23	46	17			(2800	Short period vertical inst.
	ZE	e(PP)		47	06				
	ZNE	e(S)		50	(48)				
	ZNE	e(SS)		52	(18)				
10	E	M	00	00	35	15	+11		
		F		30	-				
11	ZNE	eL	13	10	-				
		F	14	15	-				
13	NE	eL	13	16	-				
		F		25	-				
13	NE	eL	23	52	-				
		F	24	00	-				
15	Z	i(PKP_1)	19	40	28			(18600	Focal depth (80K) Compression. Clear pulse.
	Z	i(pPKP_1)			47				
	Z	i(sPKP_1)			58				
	ZNE	i(PKP_2)		41	28				
	E	e(pPKP_2)			50				

Form 8717.

D3 49423/1

M.O. 451.

KEW OBSERVATORY, RICHMOND, SURREY,

SEISMOLOGICAL BULLETIN.

DECEMBER, 1947

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
15 (cont.)	Z	i(sPKP)	19	41	57				
	ZE	i(PKS)		43	48				
	ZNE	i(PP)		45	17				Clear pulse with large amplitude, on Z component.
	ZE	i(pPP)			37				
	ZN	e(SKS)		47	23				
	Z	e(PPP)		49	07				
	ZNE	e(SKKS)		52	(01)				In minute time break.
	NE	e(SKSP)		55	(46)				
	E	e(PPS)		59	(01)				In minute time break.
	ZNE	e(SS)	20	06	(01)				
	ZNE	e(L_R)		39	-				
	N	M		52	03	19	+15		
	Z	M		56	45	18	-10		
	E	M		57	57	18	+14		
		F	22	00	-				
16	ZNE	e(L)	21	06	-				
		F		20	-				
16	ZNE	eL	21	33	-				
		F	22	20	-				
18	ZNE	eL	13	11	-				
		F		2[illegible]	-				
19	Z	i(P)	04	47	18			(6800)	Compression.
	Z	e(S)		55	(36)				
	ZE	e(SS)		59	(12)				
	NE	e(L_Q)	05	03	-				
	Z	e(L_R)		05	-				
		F	06	2[illegible]	-				
19	Z	e(P)	16	52	46			(11500)	Short period vertical inst.
	Z	e(PKS)		56	(10)				
	Z	e(SKS)		59	48				
	NE	e(S)	17	0[illegible]	10				
	ZE	e(PS)		01	52				
	Z	e(SS)		07	(42)				
	Z	e(L_R)		21	-				
		F	18	30	-				
20	ZNE	eL	08	31	-				
		F	09	10	-				
21	ZNE	e(P)	17	46	(42)				
	Z			49	(30)				
	ZNE			56	(32)				
	N	e(L)		58	-				
	ZE	e(L)	18	00	-				
		F	19	15	-				
24	ZE	e(PKP)	05	41	(18)			(15800)	
	ZE	e(PP)		44	(34)				
	NE	e(HKS)			56				

FORM 3718.

DS 49423/1

SEISMOLOGICAL BULLETIN.

DECEMBER, 1947.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24 (cont.)	ZE	e(PPP)	05	47	(47)				
	N	e(SKS)		48	(34)				
	NE	e(SKKS)		51	30				
	ZE	e(PKKS)		53	(30)				
	E	e(L_Q)	06	21	-				
		F	08	00	-				
25	NE	eL	02	35	-				
		F	03	45	-				
28	ZNE	eL	17	48	-				
		F		55	-				
29	ZNE	eL	15	40	-				
		F		45	-				
29	ZNE	eL	18	19	-				
		F		25	-				
29	ZNE	eL	18	47	-				
		F	19	10	-				
30	ZNE	eL	00	12	-				
		F		25	-				
30	ZNE	eL	02	31	-				
		F	03	20	-				
30	ZNE	eL	07	05	-				
		F		25	-				
30	ZNE	eL	09	04	-				
		F		15	-				
31	ZNE	e(L)	16	15	-				
		F	17	20	-				

FORM 3718.

DS 49423/1/R139 125 1/48 CL