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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JANUARY 1950

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 $\mu 2$.	$\frac{Ak}{\pi^l}$
		sec.	sec.		sec^{-1}
N.	22 July, 1949	21.6	23.2	-0.06	52.1
E.	22 April, 1949	17.8	18.3	+0.04	70.8
Z.	20 May, 1949	14.2	12.5	-0.05	133.

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	03	32	-				
		F		50	-				
1	ZNE	eL	16	54	-				
		F	17	25	-				
2	ZNE	e	01	09	-				
		F	02	20	-				
2	ZNE	e	16	29	-				
		F	17	35	-				
3	Z	iP	03	05	14			10720	Philippine Islands.
	ZNE	iPP		09	02				18°N., 121°E. (U.S.C.G.S).
	ZNE	e		12	50				
	NE	eSKS		15	44				
	NE	eS		16	42				
	ZNE	ePPS		18	44				
	ZNE	eSS		23	14				
	NE	eSSS		27	58				
	NE	e		30	02				
	ZNE	eL		32	-				
	Z	M		52	08	16	-23		
	N	M		52	12	17	-35		
		F	05	30	-				
3	ZNE	e	06	54	-				
		F	07	05	-				
3	NE	e(PP)	11	31	30				
	ZNE	eL	12	02	-				
	Z	M		20	57	16	+2		
		F	13	10	-				

Form 3717.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4/5	NE	e	23	59	-				
		F	00	50	-				
5	ZNE	e	04	54	-				
		F	05	25	-				
9	ZV,E	iP_g	19	41	02			160	Recorded on Galitzin instruments.
	ZV,NE	iS_g		41	21				
		F^g		44	-				
10	ZNE	ePPP	03	26	54				Off S.E. Coast of Mexico 11°N., 103°W. (U.S.C.G.S).
	ZNE	eL		46	-				
		F	04	30	-				
10	ZNE	e	17	25	13				
	ZNE	eL		34	-				
		F		55	-				
12	ZV,	ePKP	12	26	57				(17,000 Km)
	N	eSKS		34	20				Fiji Islands.
	ZNE	eL		50	-				17°S., 178½°W. Depth about
		F	13	20	-				500 Km. (U.S.C.G.S.)
14	ZNE	e	00	34	59				
	ZNE	eL		58	-				
		F	01	25	-				
15	NE	e	05	40	—				
		F	06	20	-				
15	E	e	18	35	13				
	ZNE	eL		54	-				
		F	19	30	-				
17	ZNE	e	11	28	-				
		F	12	15	-				
19	ZV,Z	iP	17	35	44			5,250	
	ZV,	iPP		36	09				
	Z	eS		42	37				
	ZE	eSS		46	14				
	ZNE	eL		51	-				
	E	M		02	42	14	+2		
		F		45	-				
20	ZV,Z	e	18	39	03				
	NE	e	19	00	38				
	ZNE	eL		10	-				
		F		45	-				
22	ZNE	eL	04	15	-				
		F	05	05	-				
23	ZNE	e	10	40	-				
		F	11	20					
24	Z	ePKP	17	06	31				New Hebrides.
	ZNE	eL		40	-				
		F	19	20	-				

FORM 3718.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
25	E	e	12	24	09				
	ZNE	eL		38	-				
		F	13	10	-				
30	NE	e	01	27	03				Large microseisms.
	ZNE	e		33	22				
	NE	eL_Q		41	-				
	Z	eL_R		48	-				
	N	M	02	01	14	22	+23		
	E	M		02	35	20	+18		
	Z	M		12	52	18	+18		
		F	04	15	-				
30	NE	e	14	28	-				Large microseisms.
		F	16	00	-				
31	ZV,	e	10	52	42				Confused by microseisms.
	ZV,	e		53	02				Shown on Galitzin
	ZV,	e		53	28				seismograph.
		F		56	-				
	NE	e	11	54	-				Confused by microseisms.
		F	12	30	-				

FORM 3718.

DS 27565/1/R139 150 2/50 CL

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY, 1950

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.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec^{-1}
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	e	17	37	-				Large microseisms.
		F	18	30	-				
2	NE	e	07	05	-				Large microseisms.
		F	08	30	-				
2/3	ZNE	eI	23	45	49			8,890	Large microseisms.
	Z	eI P		48	13				Yunnan Province China.
	NE	eS		55	57				22°N, 100½°E. (US.C.G.S.)
	NE	eSS	00	00	53				
	NE	eSSS		05	15				
	NE	eL		10	-				
	N	M		18	07	22	-130		
	E	M		18	13	22	-75		
		F	02	10	-				
3	ZV,	eP	03	04	04			8,730	Large microseisms.
	ZV,	ePP		07	19				Repetition.
	NE	eS		14	04				
	NE	eSS		18	37				
	NE	eSSS		23	29				
	NE	eL		27	-				
	N	M		36	19	19	+65		
	E	M		36	33	22	-30		
		F	05	10	-				
3	NE	e	13	47	-				Large microseisms.
		F	14	10	-				
3	NE	e	19	01	-				Large microseisms.
		F		25	-				
4	NE	e	02	47	-				Large microseisms.
		F	03	10	-				

Form 3717.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
5	Z	ePKP2	01	45	13			(19000)	Large microseisms.
	Z	ePP		50	14				South of New Zealand.
	ZNE	e(PPP)		55	45				50°S, 164°E.
	NE	ePPS	02	04	53				(U.S.C.G.S.).
	ZNE	eSS		09	52				
	ZNE	e		13	09				
	NE	e		26	05				
	ZNE	eL		48	-				
	N	M		59	37	24	+15		
	E	M	03	04	02	20	-11		
	Z	M		06	26	17	-13		
		F	05	25	-				
7	ZNE	e	11	00	(16)				Large microseisms.
	ZNE	eL		16	-				
		F	12	05	-				
8	ZV,	eP	18	24	04			(2,335)	Large microseisms.
	NE	e(S)		27	50				North Atlantic Ocean.
	NE	e		28	50				48°N, 27½°W. (U.S.C.G.S.).
	ZNE	eL		30	-				
		F	19	20	-				
11	Z	e(P)	01	35	(24)			(12000)	Large microseisms.
	ZNE	ePP		39	24				
	NE	eSKS		45	32				
	NE	eSS		55	32				
	ZNE	eL	02	08	-				
	N	M		25	11	19	-6		
		F	03	20	-				
12/13	NE	e	23	16	05				Large microseisms.
	NE	e		24	51				
	ZNE	eL		26	-				
		F	00	50	-				
14/15	Z	e	23	37	59				Large microseisms.
	ZNE	eL		59	-				
		F	00	50	-				
15	ZNE	e	08	48	-				
		F	09	05	-				
21	ZNE	e	15	40	-				
		F	16	20					
22	ZN	e	11	58	18				
	ZNE	eL	12	10	-				
		F	13	20	-				
22	ZV	e	15	59	(00)				Confused by microseisms.
	ZNE	eL	16	53	-				
		F	17	15	-				
23	ZNE	eL	05	32	-				Confused by microseisms.
		F	06	10	-				
23	NE	e	09	51	20				Confused by microseisms.
		F	10	15	-				

FORM 3718.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
23	NE	e	11	29	(16)				Confused by microseisms.
	NE	eL		36	-				
		F		55	-				
25	ZV,	e	06	03	10				Confused by microseisms.
	N	e		12	06				
	ZNE	eL		20	-				
	N	M		25	45	14	-5		
		F		55	-				
25	NE	e		15	03				Confused by microseisms.
	NE	e		15	55				
	NE	eL_Q		34	-				
	Z	eL_R		39	-				
	E	M		43	33	22	-10		
	N	M		43	34	20	+8		
	Z	M		50	36	14	-5		
		F	11	55	-				
28	ZNE	e	08	00	-				
		F		20	-				
28	ZV,ZNE	iP	10	32	19			8,055	
	ZNE	iP_cP		32	25				
	ZNE	i		34	14				
	ZV,ZNE	ePP		35	16				
	NE	iPPP		37	12				
	NE	iS		41	48				
	NE	iPS		43	23				
	NE	eSS		45	34				
	NE	eSSS		47	28				
	NE	e		50	24				
	ZNE	eL		52	-				
	N	M		56	55	22	-34		
	E	M		57	51	25	-65		
	ZNE	eL_2	12	51	-				Via antipodes.
		F	13	55	-				

FORM 3718.

DS 29220 /1/ R139 150 3/50 CL

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH, 1950

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.	$\frac{\lambda k}{\pi l}$
N.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec^{-1}
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	e	09	31	29				
	ZNE	eL		39	-				
	N	M		47	23	19	-5		
		F	10	25	-				
2	N	ePS	19	09	17			12,800	Sandwich Islands region.
	NE	eSS		15	43				59.5°S., 34°W. (U.S.C.G.S.)
	NE	eSSS		19	37				
	ZNE	eL		31	-				
	N	M		42	18	22	+5		
		F	20	20	-				
3	Z	e	11	04	06				No N-S record.
	ZE	e		27	11				
	ZE	eL	12	06	-				
		F	13	15	-				
4	E	e	14	03	-				Small.
		F		15	-				
4	E	e	16	08	-				ditto.
		F	17	15	-				
5	ZE	e	01	00	-				
		F		15	-				
5	ZE	e	08	10	-				
		F		30	-				
7	ZNE	eP	02	21	30			11,000	Phillipines 10°N., 120°E.
	ZN	ePP		25	45				(Poona).
	ZN	ePPP		29	04				
	ZNE	eSKS		32	08				
	ZNE	eSP		34	31				
	ZNE	eSS		40	27				

Form 3717.
S.33440-1-

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
7	ZNE	e	02	42	47				
	ZNE	e		46	07				
	ZNE	eL		52	-				
	E	M	03	12	43	19	+31		
	Z	M		12	52	18	-33		
	N	M		12	55	19	-39		
		F	05	10	-				
8	ZV,	iP	04	28	01			500	Small.
	ZV,	iP_g		28	17				Western Germany.
	NE	eS_g		29	17				
	E	e		29	53				Large movement.
		F		35	-				
9	ZV,Z	iP	10	13	32			6,950	
	ZV,Z	i		13	43				
	NE	eS		21	59				
	ZNE	eL		28	-				
	E	M		32	44	18	-2		
		F	11	05	-				
9	NE	e	20	35	-				
		F	21	05	-				
12	ZNE	e	02	34	-				
		F	03	00	-				
12	ZNE	e	05	25	-				
		F		50	-				
12	ZNE	e	07	35	-				
		F		45	-				
14	ZV,Z	iP	03	22	21			9,500	Dilatation.
	ZV,ZNE	iS		32	43				Eastern Peru 8°S, 74°W.
	ZE	iSP		33	37				Depth about 150 Km.
	NE	eSSS		45	32				(U.S.C.G.S.)
	ZNE	eL		50	-				Poorly developed.
		F	04	05	-				
14	NE	e	16	42	-				
		F	17	10	-				
15	Z	e	06	40	17				
	ZNE	eL		45	-				
		F		55	-				
16	ZV,	ipPKP	19	43	31			16,000	Fiji Islands region.
	N	eSKS		54	32				17°S, 178½°W.
	E	eSS	20	05	14				Depth about 600 Km.
		F		50	-				(U.S.C.G.S.)
									No surface waves.
18	ZV,ZN	e	05	06	27				Large microseisms.
	ZNE	e		19	07				
	ZNE	eL		31	-				
	N	M		38	17	23	+9		
		F	06	25					

FORM 3718.

DS.33-449-1-

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
18	NE	e	11	52	-				Large microseisms.
		F	13	10	-				
20	NE	e	15	58	-				
		F	16	20	-				
22	ZV,	i	12	54	59				Small.
	ZNE	eL		58	-				
	N	M		00	42	11	+3		
		F		10	-				
22	Z	e	21	33	46				
	NE	eL_Q		54	-				
	Z	eL_R	22	03	-				
		F		25	-				
24	ZNE	e	01	00	55				
		F		15	-				
25	ZNE	e	07	36	06				
	NE	eL_Q		43	-				
	Z	eL_R		47	-				
		F	08	10	-				
25/26	ZNE	e	23	55	-				
		F	00	35	-				
26	ZNE	e	17	11	-				
	ZNE	eL		20	-				
		F	18	20	—				
27	ZNE	e	11	28	-				
		F		40	-				
27	ZV,	iP	13	15	50			8,220	Dilatation.
	ZV,Z	i		15	54				Aleutian Islands region
	ZNE	iS		25	24				53½°N, 173°E. (U.S.C.G.S.
	NE	ePS		25	58				? AJ.
	ZNE	e		27	09				
	ZNE	eSS		30	26				
	ZNE	eL		36	-				
	N	M		41	51	29	+12		
	E	M		54	20	18	-15		
		F	16	05	-				
27	Z	e	21	46	06				
	NE	e		51	35				
	NE	eL_Q	22	04	-				
	Z	eL_R		13	-				
	N	M		23	31	22	-7		
	E	M		28	24	18	-6		
		F	23	55	-				
28	NE	e	04	52	-				
		F	05	10	-				
29	ZNE	e	14	23	-				
		F		50	-				

FORM 3718.

DS 33449-1-

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. "	Δ km.	REMARKS.
29	ZN	e(P)	18	01	33			(10,000)	
	ZNE	e(SKS)		11	25				
	ZNE	e(PS)		12	57				
	NE	e(SS)		18	17				
	NE	e		31	51				
	ZNE	eL		37	-				
	N	M		43	50	30	-7		
	Z	M		52	55	24	+5		
		F	20	45	-				
30	ZNE	e	16	55	-				
		F	17	10	-				

FORM 3718.

DS. 33443-1-R.139 150.1

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL, 1950

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.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52. sec.$^{-1}$
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	00	36	29				Small
	ZNE	eL	01	06	-				
		F		40	-				
1	ZNE	e	02	55	-				
	ZNE	eL	03	08	-				
		F		35	-				
1	ZNE	eL	03	49	-				
	N	M	04	02	15	14	-2		
		F		15	-				
4	NE	e	04	22	32				
	ZNE	eL		27	-				
	N	M		40	31	16	-3		
		F	05	05	-				
4	ZV, Z	iP	08	54	07			6,400	Border of U.S.S.R. and outer Mongolia.
	ZV, ZN	ePP		56	25				52°N, 101°E. (U.S.C.G.S.)
	ZNE	eS	19	02	04				
	ZNE	eSS		05	53				
	ZNE	eSSS		08	10				
	ZNE	eL		09	-				
	N	M		17	03	19	+85		
	E	M		17	37	18	-70		
	N	M		21	41	16	-130		
	E	M		21	53	16	-95		
	Z	M		21	53	15	-120		
		F	22	00	-				
5	Z	e(P)	01	28	(52)			(8500)	Doubtful.
	N	e(PS)		39	10				Confused by microseisms.
	ZNE	e(SS)		44	06				Aleutian Islands region.
	ZNE	eL		56	-				52°N, 177°W. (U.S.C.G.S.)
		F	03	10	-				

Form 3717. Os.37723-1.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. APRIL, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
5	NE	e	18	22	37				Confused by microseisms.
	ZNE	e(L)		24					
		F		40					
6	NE	e	03	01	07				
	ZNE	eL		11					
		F		40					
10	NE	e	07	32					Confused by microseisms.
		F	08	15					
10	ZE	e	17	11					Large microseisms.
		F	18	20					No N-S record.
12	NE	e	08	30					Small.
		F	09	10					
12	NE	e	14	55					
		F	16	00					
13	Z	eP	11	56	23			(2650)	Azores Islands region.
	ZNE	e(S)	12	00	35				36°N, 27°W. (U.S.C.G.S.)
	ZNE	eL		02					
		F		15					
14	Z	e	20	20	42				
	Z	e		21	26				
	ZNE	e		30	06				
	ZNE	e		30	50				
	ZNE	e		33	44				
	ZNE	e		37	56				
	ZNE	eL		55	-				
	E	M	21	05	10	23	+3		
		F	22	25	-				
14/15	ZNE	e	23	53	-				
		F	00	05	-				
15	Z	eP	15	03	27				e, NE.
	Z	ePP		06	28				
	NE	e		12	08				
	NE	e(SS)		17	47				
	ZNE	e		24	36				
	ZNE	eL		28	-				
		F	16	15	-				
16	ZNE	e	22	15	-				
		F		45	-				
18	ZNE	e	15	25	-				
		F	16	10	-				

FORM 3718.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. APRIL, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
20	Z	iP	10	03	00			8,760	e, NE.
	N	eS		13	01				Kurile Islands region.
	NE	ePS		13	25				45°N, 150°E. (U.S.C.G.S).
	ZN	e(PPS)		14	18				
	ZN	eSS		19	10				
	ZNE	eL		29	—				
	Z	M		42	12	22	-4		
		F	11	25	—				
20	ZV,ZNE	iP	17	23	21			2,040	Northern Algeria.
	NE	eS		26	44				34°N, 3°E. (U.S.C.G.S.)
	ZNE	eL		28	—				
	Z	M		31	15	12	+3		
		F	18	05	—				
26	ZV,Z	iP	07	17	36			9220	Near southern coast of
	ZV,Z	e(pP)		17	51				Japan.
	NE	ePP		21	13				
	NE	eS		27	56				
	ZN	eSKS		28	07				
	ZNE	ePS		29	07				
	ZNE	eSS		33	59				
	ZNE	eL		39	—				
	N	M	08	01	37	17	+7		
		F	09	05	—				
26	ZNE	e	19	40	—				
		F	20	10	—				
30	Z	e	10	59	31				
	NE	e	11	06	26				
	Z	e		06	51				
	N	e		08	21				
	NE	e		09	23				
	NE	eL_Q		20	—				
	Z	eL_R		27	—				
		F	13	55	—				
30	ZNE	e(L)	19	05	—				
		F		25	—				

FORM 3718.

D537723-1. R139. 150. 5/50. C.L.

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY, 1950

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_2	DAMPING CONSTANT μ_2.	$\frac{A\epsilon}{m\Gamma}$
N.	22 July, 1949	21.6 sec.	23.2 sec.	-0.06	52.1 sec^{-1}
E.	22 April, 1949	17.8	18.3	+0.04	70.8
Z..	20 May, 1949	14.2	12.5	-0.05	133.

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,ZNE	e	00	12	32				
	ZNE	eL		22	–				
		F		55	–				
2	ZV,	e	00	51	–				Very small.
		F		55	–				
3	ZV,ZNE	e	07	21	01				
	ZNE	eL		25	–				
		F		40	–				
7	ZNE	e	05	52	–				Small.
		F	06	05	–				
7	Z	e	07	06	44				
	NE	e		20	44				
	ZNE	eL		51	–				
		F	09	00	–				
7	ZNE	e	10	53	–				Small.
		F	11	10	–				
9	Z	iP	06	20	07			6,055	eNE.
	ZNE	ePPP		23	38				Gulf of Aden.
	NE	iS		27	45				
	ZNE	eSP		27	58				
	ZNE	eSS		31	34				
	ZNE	eL		35	–				
	N	M		42	51	18	-3		
		F	07	35	–				
9	ZNE	e	09	40	–				Earlier phases lost in changing of charts.
		F	10	10	–				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	ZV,ZNE	iP	11	24	54			4,730	Turkmen
	ZNE	i		25	02				41°N, 58°E. (U.S.C.G.S.)
	ZNE	iPP		26	40				
	ZNE	eS		31	15				
	NE	eSS		34	04				
	ZNE	i		34	22				
	ZNE	eL		39	-				
	N	M		45	39	17	+17		
	E	M		45	55	15	-8		
	Z	M		48	50	15	-10		
		F	13	20	-				
10	ZNE	e	02	15	-				Small.
		F		25	-				
10	ZNE	e	22	40	-				
		F		50	-				
10/11	ZV,ZNE	eP	23	51	23			8,430	
	ZV,ZNE	ePP		54	18				
	NE	eS	00	01	08				
	NE	ePS		01	24				
	ZNE	eL		13	-				
	N	M		24	06	19	+16		
	E	M		24	42	15	+18		
		F	03	00	-				
13	ZNE	e	01	25	-				
		F		55	-				
13	ZNE	e	18	55	-				Small.
		F	20	00	-				
14	ZNE	e	04	59	26				Small.
		F	05	25	-				
17	ZNE	e	05	44	33				
	NE	e		49	23				
	ZNE	eL	06	03	-				
		F		50	-				
17	ZV,Z	iP	11	58	00			9300	Compression.
	ZV,Z	ipP	12	00	00				Sea of Japan. 39°N, 130½°E.
	ZE	iS		07	11				Depth about 600 Km.
	E	esS		10	49				(U.S.C.G.S.)
	ZNE	eL		28	-				Records very faint.
		F		50	-				
17	ZV,Z	iPKP	18	32	57			(16,000)	
	ZV,	i		33	13				
	ZV,	i		33	42				
	ZV,	i		34	36				
	NE	e		56	33				
	ZNE	eL	19	16	-				
	E	M		39	36	20	+10		Records very faint.
		F	21	10	-				New Hebrides Islands region.
									20°S, 169°E. (U.S.C.G.S.)

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	ZV,Z	iPKP	02	57	56			(16,500)	Compression.
	ZNE	i		58	02				New Hebrides Islands region.
	ZN	e		59	10				20½°S, 169°E. (U.S.C.G.S.)
	ZN	ePP	03	01	33				
	Z	e(SP)		12	02				
	NE	eSS		20	49				
	ZNE	eL		47	-				
	N	M	04	06	24	20	+5		
	Z	M		06	48	19	-6		
		F	06	00	-				
19	Z	ePKP	07	25	18			(16,500)	Probably repetition.
	ZV,ZNE	i		25	22				
	Z	e		26	42				
	ZN	ePP		28	53				
	NE	eSS		48	03				
	N	e	08	05	21				
	ZNE	eL		16	-				
	Z	M		34	17	18	+3		
		F	10	20	-				
20	Z	eP	09	44	58			(11,000)	
	Z	e		45	28				
	ZNE	ePPP		51	03				
	N	e		53	54				
	ZNE	e(SKKS)		56	24				
	NE	eSS	10	03	40				
	E	eSSS		07	38				
	ZNE	eL		12	-				
		F	11	30	-				
21	ZNE	e	19	25	-				
		F		40	-				
21	ZNE	e	23	05	-				
		F		15	-				
22	ZNE	e(PPP	23	34	25				
	Z	e(SKS		35	04				
	ZNE	eL	00	36	-				Small.
		F	01	25	-				
23	ZNE	e	13	02	-				Small.
		F		30	-				
24	ZV,Z	i	04	15	42				
	NE	e		16	13				
	NE	e		26	42				
	ZNE	eL	05	11	-				
		F	06	15	-				
25	ZNE	e	13	50	-				Small.
		F		55	-				
25	ZV,ZNE	e(P)	18	54	10			(12,000)	Possibly deeper focus
	ZV,ZNE	i		54	26				than normal.
	ZNE	e		56	38				
	ZNE	i(PP)		59	40				
	ZNE	eSKS	19	04	52				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
25	ZNE	ePPS	19	09	44				
	NE	eSS		14	00				
	ZNE	eSSS		19	36				
	ZNE	eL		23	-				
	N	M		31	47	33	+13		
	E	M		32	36	26	-14		
		F	21	20	-				
26	ZV,ZNE	iPKP	01	36	54			(17,500)	Compression Multiple shock.
	ZV,ZNE	i		37	12				
	ZV,ZNE	i		37	26				
	ZV,ZNE	e		38	06				
	ZV,ZNE	e		39	02				
	ZV,ZNE	ePP		40	38				
	ZV,ZNE	eSKKS		48	18				
	ZNE	e		50	33				
	ZNE	iSS		59	40				Large.
	ZNE	i	02	09	54				
	ZNE	eL		18	-				
	N	M		42	07	23	-40		
	E	M		43	44	20	+22		
	Z	M		45	30	21	-31		
		F	06	05	-				
26	Z	e(PKP)	18	59	04				
	Z	e	18	00	10				
	ZNE	eL		54	-				Small.
		F	19	55	-				
27	ZV,ZNE	eP	12	59	12				
	ZV,ZNE	e	13	00	06				
	ZNE	eL		30	-				
	Z	M		23	32	18	+1		
		F	15	10	-				
28	ZV,NE	ePKP	01	56	31				No Z record.
	NE	ePP	02	00	14				
	N	e		06	02				
	NE	e(PPS)		14	58				
	NE	eL		50	-				
	E	M	03	04	30	20	+4		
		F	04	20	-				
30	Z	e	10	03	15				Small.
	ZNE	eL		09	-				
		F		20	-				
30	ZV,Z	iPKP	15	22	41				eNE
	ZV,ZNE	ePP		25	05				
	ZNE	ePKS		26	07				
	ZNE	eL	16	08	-				
		F		30	-				
31	Z	eP	13	26	01			(11,000)	
	Z	eSKS		36	29				
	ZNE	ePS		38	03				
	ZNE	eL		55	-				
	Z	M	14	10	49	16	+5		
		F	15	30	-				

FORM 3718.

D54/480-1.R139.150.6/

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
8	ZNE	eSS	16	39	12				
	NE	eSSS		42	28				
	ZNE	eL		47	–				
	N	M		58	00	30	+17		
	N	M		03	53	17	-10		
	Z	M		03	56	17	-9		
		F	19	30	–				
11	ZNE	eL	04	20	–				
	N	M		28	55	18	+2		
		F		55	–				
11	ZV,ZNE	e	14	00	08				Small.
		F		15	–				
11	ZNE	e	18	05	–				Small.
		F		30	–				
11	ZNE	e	21	10	–				Small.
				25	–				
11	ZV,ZNE	ePKP	22	31	09			(17,000)	
	NE	eSKKS		41	21				
	ZNE	e		43	10				
	NE	ePS		46	00				Later records lost.
	ZNE	eSS		56	53				Galitzins failed from
		F	–	–	–				11d 23h 12m to 12d 09h 25m.
12	ZNE	e	15	15	–				Small.
		F	16	00	–				
14	ZV,ZNE	ePKP	04	03	53			(17,500)	
	ZV,ZNE	e		04	09				
	ZV,ZNE	e		05	00				
	ZV,ZNE	ePP		07	18				
	ZNE	e(SSS)		33	06				
	Z	e		33	54				
	ZNE	eL		47	–				
	N	M	05	02	06	23	+2		
		F	06	30	–				
14	ZNE	e	07	50	–				Small.
		F	08	30	–				
15	ZNE	e	07	40	–				Small.
		F	08	25	–				
17/18	ZV,Z	iP	22	50	10			11,310	Compression.
	ZV,Z	i		50	26				
	ZNE	eSKS	23	00	23				
	ZNE	iSKKS		00	56				
	ZNE	i(ScS)		01	05				
	ZNE	eS		02	00				
	ZNE	eSS		08	19				
	ZNE	eSSS		13	21				
	ZNE	eL		15	–				
	N	M		32	52	18	+3		
		F	00	15	–				

FORM 3718.

Ps 4315-5/1

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE, 1950

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 $\mu 2$.	$\frac{Ak}{\pi^1}$
N.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec.-1
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	ZNE	e	02	45	-				Small.
		F	03	00	-				
4	EZ	e(P)	08	00	14				No N-S record.
	EZ	e		04	57				
	E	e		13	10				
	EZ	eL		17	-				
		F	09	30	-				
4	Z	ePKP	15	37	55			(16,300)	Loyalty Islands region.
	ZNE	ePP		40	14				21°S., 170½°E. Depth about
	Z	e(SKS)		46	08				100 Km. (U.S.C.G.S.).
		F	16	20	-				No surface waves
5	ZV,	eP	11	23	24			(4,200)	North Polar region.
	ZV,	ePP		25	15				87°N., 45°E. (U.S.C.G.S.).
	ZNE	eL		40	-				
		F	12	30	-				
7	ZV,ZNE	iP	17	05	00			9,000	Dilatation.
	ZV,ZNE	ipP		05	30				Northern Peru. 4°S, 76½°W.
	ZV,Z	iPP		08	24				Depth about 100 Km.
	ZV,ZNE	iS		15	13				(U.S.C.G.S.).
	ZV,ZNE	iPS		16	10				
	ZV,ZNE	ePPS		17	08				
	ZNE	eSS		20	56				
	ZNE	eL		25	-				
	N	M		34	05	22	+2		
		F	19	45	-				
8	ZV,Z	iP	16	21	09			10,945	Compression. eNE.
	ZNE	ePP		24	58				South of Tristan da Cunha
	NE	eSKS		31	48				45½°S., 15°E.(U.S.C.G.S.).
	NE	iS		32	46				
	ZNE	ePPS		34	38				

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DS 43155/1

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
18	ZNE	e	11	01	-				Small.
		F		15	-				
18	ZV,ZNE	e	13	07	00				
	NE	e		08	15				
	NE	e		12	15				
	ZNE	eL		20	-				
	N	M		29	16	17	+2		
		F	14	25	-				
19	ZV,Z	ePP	12	55	57			(12,000)	
	ZV,Z	ePPP		58	26				
	Z	ePS		05	47				
	Z	ePPS		07	00				
	NE	eSSS		26	03				
	ZNE	eL		30	-				
	E	M		35	25	33	-14		
	N	M		36	00	30	+18		
		F	16	20	-				
20	ZV,Z	e	14	16	56				Small.
	Z	e		22	13				
		F		50	-				
21	ZV,ZNE	iPKP 1	07	15	24			(17,000)	Compression.
	ZV,ZNE	iPKP 2		15	29				New Hebrides Islands region.
	ZV,ZNE	e		15	46				21°S., 169°E. (U.S.C.G.S.).
	ZV,Z	i		16	39				
	ZNE	ePP		18	56				
	ZNE	ePPP		29	30				> 180°.
	ZNE	e		38	12				
	ZNE	eL		45	-				
	N	M	08	22	11	21	+25		
	Z	M		22	26	21	+16		
	E	M		24	18	20	+7		
		F	-	-	-				Overlapped by next shock
21	ZNE	ePKP	10	16	55			13,500	Off north east coast of
	Z	ePP		18	40				New Guinea. 3½°S, 147°E.
	ZNE	ePKKP		26	58				(U.S.C.G.S.).
	NE	ePPS		29	06				
	NE	eSSS		40	00				
	ZE	e		45	12				
	ZNE	eL		47	-				
	N	M		59	38	28	+9		
	Z	M	11	09	12	22	-5		
		F	-	-	-				Overlapped by next shock.
21	ZNE	e	12	40	-				
		F	13	25	-				
22	E	e	01	53	22				
	ZNE	eL		57	-				
		F	02	20	-				
24/25	ZV,ZNE	iPKP	22	45	14			(16500)	Compression.
	ZV,ZNE	i		45	21				
	ZV,ZNE	i		46	25				
	ZV,ZNE	iPP		48	52				
	NE	e		49	34				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
24/25	NE	eSKKS		55	26				
	NE	eSKSP		59	00				
	ZNE	e(SS)	23	07	56				
	Z	i(SSS)		12	38				
	ZNE	eL		25	-				
	Z	M		52	25	22	-28		
	N	M		52	43	21	+32		
	E	M		53	57	20	-12		
		F	02	25	-				
25	ZV,	eP	11	20	54			(11,500)	
	ZV,Z	ePP		24	51				
	ZV,Z	iPS		33	52				
	ZV,Z	iPPS		34	53				
	NE	e(SSS)		44	58				
	ZNE	eL		50	-				
	N	M	12	04	27	20	-5		
	Z	M		17	16	18	+3		
		F	13	40	-				
27	ZNE	e	02	35	-				Small.
		F	03	00	-				
27	ZV,Z	iP	15	53	53			8,780	Compression. eNE.
	ZN,Z	i		54	00				
	ZN	ePP		56	54				
	ZNE	i(PPP)		59	54				
	ZNE	iS	16	03	55				
	ZNE	iSKS		04	35				
	NE	e		06	42				
	NE	eSS		09	52				
	ZNE	eL		18	-				
	E	M		28	19	17	+10		
	N	M		28	30	17	+11		
	Z	M		36	45	13	+8		
		F	17	50	-				
28	ZV,	i	23	30	49				Not very distant.
	ZV,ZNE	i		31	52				
	ZV,ZNE	i		32	01				
		F		35	-				
29	ZNE	e	00	03	-				
		F		55	-				

FORM 3718

DS 43165/1/R 139 150 7/50 CL

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY, 1950

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.	$\frac{Ak}{n^2}$
N.	22 July, 1949	21.6 sec.	23.2 sec.	-0.06	52.1 sec.$^{-1}$
E.	22 April, 1949	17.8	18.3	+0.04	70.8
Z.	20 May, 1949	14.2	12.5	-0.05	133.

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.
2/3	ZV,Z	eP	23	01	17				Central Columbia
	ZNE	eL		27	-				4°N, 73½°W. (U.S.C.G.S).
		F	00	15	-				
3	Z	ePKP	10	20	57			(12000)	Caroline Islands Region.
	ZV,Z	iPP		22	52				8°N, 141½°E. (U.S.C.G.S.)
	ZNE	ePPP		25	01				
	NE	eSS		38	21				
	NE	e		49	23				
	NE	eL_Q		53	-				
	ZNE	eL_R		59	-				
	E	M	11	01	39	30	+17		
	N	M		02	36	25	-18		
	Z	M		09	19	19	+5		
		F	12	50	-				
3	ZNE	e	13	50	-				Small.
		F	14	10	-				
5	ZV,Z	ePKP	03	54	47			(16000)	New Hebrides.
	Z	ePP		58	11				19°S, 168°E. (U.S.C.G.S)
	Z	e	04	03	17				
	ZNE	eL		53	-				
		F	05	55	-				
6	ZNE	e	07	23	54				Small.
	ZNE	eL		30	-				
		F		55	-				
7	Z	ePKP	17	06	19			(15,000)	Solomon Islands Region.
	Z	e		06	40				11°S, 163½°E. (U.S.C.G.S
	ZNE	ePP		08	59				
	Z	eSKKS		16	23				
	ZNE	e		18	07				
	ZNE	e(SKSP)		19	55				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
7	Z	e(SS)	17	30	05				
	ZNE	e		39	35				
	ZNE	eL		50	-				
	N	M	18	08	55	27	+4		
		F	20	05	-				
8	ZNE	e	07	15	-				
		F		40	-				
9	ZV, ZN	eP	00	37	53			6020	
	Z	eP_cP		38	54				
	NE	eS		45	29				
	NE	eS_cS		47	57				
	NE	eSS		49	25				
	ZNE	eL		53	-				
	N	M	01	05	03	22	-5		
		F	-	-	-				Overlapped by next shock.
9	ZN	e(PP)	01	58	57			(15,000)	
	Z	e	02	00	01				
	ZNE	eSKP		03	49				
	ZNE	eSS		18	05				
	ZNE	eL		40	-				
		F	-	-	-				Overlapped by next shock.
9	Z	e(P)	03	43	42				Confused by coda of previous shock.
	ZE	e		46	45				
		F	04	20	-				
9	ZV,ZNE	iP	04	51	34			9,700	Dilatation.
	ZV,ZNE	ipP		53	50				Western Brazil.
	Z	e		57	54				$8\frac{1}{2}$°S, 71°W.
	ZE	e		58	53				Depth about 600Km.(U.S.C.G.S.
	ZNE	iSKS	05	00	57				Probably more than one shock.
	ZNE	eSP		02	10				
	ZNE	ePS		03	13				
	ZNE	esS		05	33				
	ZNE	eSS		07	03				
	ZNE	esSS		10	33				
	NE	i		13	55				
	NE	e		20	33				
	ZNE	eL		23	-				
	N	M		27	46	18	-4		
		F	07	25	-				
9	ZNE	iP	09	56	37			9,700	Dilatation.
	Z	ipP		58	51				Approximate repetition.
	ZNE	isP		59	51				
	ZNE	iSKS	10	06	09				
	E	iSKKS		06	31				
	ZNE	eS		07	12				
	ZNE	epS		10	05				
	ZNE	eSS		15	35				
	NE	e		19	05				
	ZNE	eL		21	-				Poorly developed.
	Z	i		25	13				Possibly another shock.
		F	11	00	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	ZNE	iP	16	19	05			5800	Compression.
	ZE	isP		20	17				eN.
	ZNE	ePPP		21	58				Pakistan.
	ZNE	iS		26	08				36°N, 72°E.(U.S.C.G.S).
	NE	isS		27	29				Depth about 200Km.
	ZNE	i		27	43				
	ZNE	eSS		29	57				
	ZNE	eL		33	-				
	N	M		41	04	21	+6		
		F	17	35	-				
9	ZNE	e	20	10	-				Small.
		F		30	-				
10	Z	eP	05	46	56			8,870	
	NE	eS		57	03				
	NE	eSS	06	01	49				
	ZNE	eL		07	-				
		F	07	30	-				
12	ZV,ZN	eP	11	21	00			8,620	Aleutian Islands Region.
	ZNE	ePP		23	53				53°N, 166°W. (U.S.C.G.S).
	NE	eS		30	55				
	NE	ePS		31	16				
	ZNE	eL		40	-				
	N	M	12	00	16	18	-3		
		F	14	00					
12	ZNE	e	16	20	-				Small.
		F	17	10	-				
13	ZV,Z	i(pP)	04	18	08			(10,300)	Bonin Islands Region.
	NE	e(SKS)		26	04				27½°N. 139½°W.
	NE	i(S)		26	36				Depth about 500 Km.
	NE	i(SP)		26	41				(U.S.C.G.S).
	NE	e(sS)		29	57				
	NE	e(SS)		33	12				
	ZNE	eL		36	-				
		F	05	50	-				
17	ZNE	e	00	51	-				Small.
		F	01	05	-				
17	ZNE	e	20	38	-				Small.
		F	21	00	-				
18	ZV,Z	eP	01	45	31			(10,500)	Doubtful.
	NE	e(S)		56	51				
	ZNE	eL	02	18	-				
	E	M		22	45	22	+2		
		F		55	-				
18	ZV,	e	16	48	55				Doubtful.
	E	e		58	52				
	ZNE	e	17	01	31				
	NE	e		11	41				
	ZNE	eL		15	-				
	N	M		29	37	22	+3		
		F	18	00	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	ZNE	e	05	42	-				Small.
		F	06	05	-				
19	ZNE	e	11	37	-				Small.
		F	12	05	-				
19	ZNE	e	13	40	-				Small.
		F	14	05	-				
20	ZV,Z	iPKP	09	50	24			(16000)	Dilatation.
	ZV,Z	ePP		53	48				Fiji Islands Region
	NE	eSKKS	10	00	44				17°S, 174°E. (U.S.C.G.S).
	NE	eSKSP		03	49				
	NE	eSS		11	52				
	NE	eSSS		17	52				
	ZNE	eL		27	-				
	N	M		43	25	30	+16		
		F	12	30	-				
20	ZNE	e	17	40	-				Small.
		F	18	15	-				
21	Z	e	07	38	52				Small.
	ZNE	eL	08	35	-				
		F	09	05	-				
21	ZV,Z	$iPKP_1$	20	51	35			(16000)	Dilatation. eNE.
	ZV,Z	$ePKP_2$		52	08				New Hebrides Islands Region
	NE	ePP		55	18				$15\frac{1}{2}$°S. $168\frac{1}{2}$°E. (U.S.C.G.S).
	NE	eSS	21	13	36				
	NE	ePSS		15	12				
	NE	eSSS		19	12				
	ZNE	eL		33	-				
	N	M		47	20	25	+6		
		F	23	25	-				
22/23	ZV,ZNE	$ePKP_1$	23	30	20				
	ZV,Z	$ePKP_2$		30	52				
	NE	eL	00	15	-				
		F	01	30	-				
24	ZNE	e	13	40	-				Small.
		F	14	30	-				
25	ZV,ZE	eP	18	22	14			4,165	
	NE	ePP		23	36				
	ZNE	eS		28	02				
	NE	eSS		30	48				
	ZNE	eL		33	-				
	N	M		34	03	17	-2		
		F	19	20	-				
28	ZV,Z	ePKP	05	14	47			(15,000)	
	NE	ePP		18	14				
	ZNE	e		19	18				
	NE	eSKS		24	20				
	NE	eL		52	-				
	N	M	06	16	28	22	+2		
		F	07	45	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	NE	e	18	20	–				
	NE	eL		30	–				
		F		55	–				
29	NE	eL	15	15	–				
		F		50	–				Traces on Z.
29	ZV,Z	eP	17	03	16			10,110	
	ZV,ZNE	eS		14	19				
	ZV,ZNE	ePS		15	22				
	NE	eSS		20	20				
	ZNE	eL		30	–				
	E	M		46	44	23	+3		
		F	19	20	–				
30	ZV,Z	i(PKP)	00	08	08			(14,000)	eNE.
	ZV,ZNE	e(PP)		10	23				
	ZV,ZNE	i(PKS)		11	30				
	ZV,Z	e(PPS)		24	20				
	NE	e(SS)		30	10				
	ZNE	eL		38	–				
	N	M		57	49	28	-21		
	E	M		58	36	25	-7		
		F	03	10	–				
31	NE	eL	18	37	–				Traces on Z.
		F	19	20	–				

FORM 3718.

DS.47387-1.R139.150.8/50.C.L.

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST, 1950

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 μT.	$\frac{Ak}{\pi l}$
N.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec.
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	e	00	50	-				
		F	02	10	-				
1	ZV,ZNE	eP	09	24	01				Off Hokkaido, Japan.
	ZV,	e		24	14				42½°N., 145°E. (U.S.C.G.S).
	NE	eL		50	-				Chart changing.
	N	M		58	15	26	+4		
		F	10	40	-				
2	ZV,Z	iP	11	09	09			(9510)	Compression. e, NE.
	NE	ePPP		15	19				
	NE	eS		19	51				Phases doubtful.
	NE	eSS		24	55				
	ZNE	eL		40	-				
	N	M	12	00	25	17	+3		
		F	13	20	-				
2	ZV,ZNE	iP	13	58	46			5,460	Compression.
	ZV,Z	ePP	14	00	34				e, NE.
	ZNE	eS		05	50				
	ZE	eSS		09	53				
	ZNE	eL		15	-				
	E	M		24	20	14	-5		
		F	15	50	-				
3	ZNE	e	07	00	-				Small.
		F		20	-				
3	ZV,Z	e(P)	15	45	52			(9,035)	
	ZNE	e(S)		56	07				
	ZNE	eL	16	25	-				Indefinite.
		F	17	30	-				
3/4	ZV,ZNE	iP	22	29	28			7,780	Compression.
	Z	ePPP		33	41				

Form 3717.

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
3/4	ZNE	iS	22	38	38				Northwestern Venezuela.
	NE	iPS		39	31				10°N., 69½°W. (U.S.C.G.S).
	ZE	e(SKS)		40	34				
	ZNE	eL		43	-				
	N	M		47	38	37	+18		
		F	01	15	-				
5	ZV,Z	iPKP1	09	36	59			(19,000)	Compression. e, NE.
	ZV,Z	iPKP2		38	15				e, NE.
	ZV,Z	iPKS		39	14				e, NE.
	ZNE	ePP		42	09				
	ZNE	ePPP		46	33				Auckland Islands region.
	ZN	eSKKS		47	49				50°S., 164°E. (U.S.C.G.S).
	ZNE	eSKSP		52	39				
	NE	eSS	10	03	03				
	ZNE	eL		28	-				
	E	M		59	35	19	-12		
	Z	M		59	47	20	-13		
	N	M	11	00	59	18	-14		
		F	12	45	-				
7	ZV,ZNE	eP	02	59	00			(11,500)	Off Mindanao. 6°N, 126°E.
	ZV,ZNE	e		59	33				(U.S.C.G.S).
	ZV,ZNE	ePP	03	03	07				
	ZE	ePPP		06	01				
	NE	eSKS		09	27				
	NE	ePKKP		14	26				
	ZNE	eL		27	-				
	N	M		45	33	25	-12		
	Z	M		49	10	18	- 9		
	E	M		49	14	18	- 7		
		F	06	10	-				
7	ZNE	e	16	16	01				
	ZNE	eL		35					
		F	17	50					
8	ZNE	e	05	45					Small.
		F	06	10					
10	ZNE	e	20	25					Small.
		F	21	10					
13	ZNE	e	17	10					
		F		50					
14/15	ZV,Z	iP	23	03	47			(10,500)	Dilatation. e, NE.
	ZV,	i		03	54				
	Z	ipP		05	58				Northern Argentina.
	ZNE	esP		07	05				27°S., 62½°W.
	ZV,ZNE	ePP		07	45				Depth about 700Km.
	ZNE	iPPP		10	48				(U.S.C.G.S.).
	ZNE	i(S)		13	25				
	N	i(SKS)		14	10				
	NE	isS		17	36				
	NE	eSS		19	32				
	NE	esSS		21	24				
	NE	eSSS		24	28				
	ZNE	eL		26	-				
	N	M		31	16	28	+11		
		F	02	00	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
15	ZNE	e	07	00	-				Small.
		F		30	-				
15	ZV,ZNE	iP	14	21	00			8,000	Compression.
	ZNE	i		22	04				Clear.
	ZNE	iPP		24	34				Destructive around
	ZNE	ePPP		26	22				Assam - Tibet.
	NE	i		29	56				
	ZV,ZNE	iS		30	22				Large.
	ZV,	iPS		30	40				
	ZV,	e		32	38				
	ZV,	eSSS		37	04				
	ZV,	e(PKKP)		40	02				
	ZV,	eL		41	-				
	ZV,	M*		55	(40)	(22)	(+28mm)		*Short period record (ZV). Galitzins very faint and maxima exceeding 400 μ.
	ZV,	e		38	52				)
	ZV,	e		44	58				)
	ZV,	e	15	02	44				)
	ZV,	e		28	05				)
	ZV,	e		35	04				)
	ZV,	e		37	38				)
	ZV,	e		40	38				)
	ZV,	e		49	25				)
	ZV,	e	16	09	10				) Aftershocks.
	ZV,	e		40	56				)
	ZV,	e		58	04				)
	ZV,	i	17	01	26				)
	ZV,	e		07	48				)
	ZV,	e		28	20				)
	ZV,	e	18	14	06				)
	ZV,	e		50	08				)
	ZV,	e	21	13	03				)
	ZV,	e		45	08				)
		F	-	-	-				Overlapped.
15	ZV,Z	eP)	21	53	47			7,980	Aftershock.
	ZV,Z	e		53	59				
	NE	eS	22	03	08				
	NE	ePS		03	24				
	ZNE	eL		16	-				
	N	M		23	25	24	+9		
		F	-	-	-				Overlapped.
15/16	ZV,	e	23	56	03				
		F	-	-	-				Overlapped to about 05h.
16	ZV,	iP	05	44	35			7,980	Aftershock.
	ZV,	i		44	48				
	NE	eS		53	56				
	N	ePS		54	14				
	NE	eSKS		55	02				
	ZNE	eL	06	10	-				
		F	-	-	-				Overlapped.
16	ZV,Z	iP	06	53	26			8,035	Aftershock.
	ZV,	i		53	48				
	NE	eS	07	02	50				
	NE	eSKS		03	38				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
16	ZNE	e	07	11	03				
	ZNE	eL		16	-				
	N	M		22	12	24	-18		
	Z	M		29	00	12	+ 8		
		F	09	05	-				
16	ZNE	e	10	10	-				Small.
		F		15	-				
16	ZNE	e	12	06	-				Small.
		F		25	-				
16	ZV,	eP	15	47	23				Aftershock.
	NE	eL	16	06	-				
	ZV,	e		35	32				Probably further aftershocks.
	ZV,	e		47	24				
		F		50	-				
16	ZV,Z	eP	18	02	51			7,835	Aftershock.
	NE	eS		12	04				
	NE	eSKS		12	58				
	ZNE	eL		25	-				
		F	19	30	-				
16	ZV,	e(P)	19	37	00				
	ZNE	eL	20	00	-				
		F		20	-				
16	ZV,	e(P)	20	22	52				Small.
	ZNE	eL		50	-				
		F	21	30	-				
16/17	ZV,	e(P)	23	33	00				Small.
	ZNE	eL	00	01	-				
		F		30	-				
17	ZV,Z	eP	02	05	36			7,925	Aftershock.
	NE	eS		14	54				
	ZNE	eL		30	-				
	N	M		34	50	21	+7		
		F	03	25	-				
17	ZNE	e	03	55	-				
		F	04	15	-				
17	ZV,	eP	05	40	31			8,075	Aftershock.
	NE	eS		49	47				
	ZNE	eL	06	05	-				
		F		55	-				
17	ZNE	e	07	50	-				
		F	08	15	-				
17	ZNE	e	15	30	-				Small.
		F		35	-				
17	ZV,	i(PKP)	16	34	02				Compression. e, ZNE.
	ZV,Z	e(pPKP)		36	27				Deep focus.
	ZN	e		37	51				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
17	ZV,	e	16	45	33				
	ZV,	e		45	07				
	N	e		47	56				
	ZNE	eL		55	–				
		F	18	00	–				
18	ZV,Z	iP	01	19	14			7,925	Dilatation. e, NE.
	ZNE	iS		28	32				Aftershock.
	NE	iSP		29	21				
	NE	eSS		33	25				
	N	eSSS		36	47				
	ZNE	eL		40	–				
	E	M		53	05	18	+18		
	Z	M		54	16	14	+11		
		F	04	00	–				
18	ZV,Z	iP	17	10	12			7,925	Dilatation. e, NE.
	ZNE	eS		19	30				Aftershock.
	ZNE	eL		24	–				
	N	M		41	12	16	- 5		
		F	19	00	–				
18	ZNE	e	22	55	–				
		F	23	20	–				
19	ZNE	e	21	55	–				Small.
		F	23	30	–				
20	ZV,Z	iP	09	14	55			(7,815)	Aftershock.
	NE	e		23	09				
	ZE	e(S)		24	07				
	ZNE	eL		(50)	–				Doubtful; Chart Changing.
		F	10	45	–				
21	ZV,Z	eP	06	03	09			8,220	Small.
	E	eS		12	43				Aftershock.
	NE	ePS		13	27				
	E	eSSS		20	59				
	ZNE	eL		28	–				
		F	07	15	–				
21	NE	e(S)	08	49	21				
	ZNE	e		56	46				
		F	10	00	–				L lost in chart changing.
21	NE	e	16	40	–				Small.
		F	17	00	–				
21	ZV,	eP	18	55	16				
	ZNE	eL	19	20	–				
		F		45	–				
21/22	ZV,	iP	23	06	56			7,870	Aftershock.
	E	eS		16	11				
	NE	ePS		17	01				
	ZNE	eL		32	–				
		F	00	15	–				
22	ZV,Z	iP	02	33	54			7,855	Aftershock.
	ZV,Z	1		33	01				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
22	NE	eS	02	43	08				
	NE	ePS		44	01				
	NE	e(PKKP)		50	36				
	ZNE	eL		55	-				
	N	M	03	02	05	22	- 4		
		F		55	-				
22	NE	e	06	26	49				
	ZNE	eL		45	-				
		F	-	-	-				Overlapped.
22	ZV,Z	iP	06	54	30			8,020	Compression.
	NE	eS	07	03	53				Aftershock.
	NE	ePS		05	01				
	ZNE	eL		16	-				
		F	-	-	-				Overlapped.
22	ZV,Z	e(P)	07	51	49				Small.
	NE	e	08	02	19				
	ZNE	eL		20	-				
		F	09	05	-				
22	ZV,Z	eP	13	33	56			8,130	Aftershock.
	ZV,Z	i		34	01				
	NE	eS		43	25				
	NE	ePS		44	19				
	ZNE	eL		53	-				
	N	M	14	03	36	22	-12		
		F	15	05	-				
23	ZV,Z	iP	03	20	39			7,890	Compression.
	NE	e		29	55				Aftershock.
	NE	eS		30	09				
	NE	ePS		30	47				
	NE	e		37	57				
	ZNE	eL		45	-				
	Z	M		55	26	13	+ 5		
		F	04	55	-				
23	NE	e	15	50	-				
	ZNE	eL	16	10	-				
		F		50	-				
23	ZV,	i	18	36	04				Not shown on Galitzins.
	ZV,	i		36	28				
	ZV,	i		37	26				
	ZV,	i		38	38				
		F		40	-				
23	ZV,Z	iP	18	58	27			8000	Aftershock.
	NE	iS	19	07	49				
	N	eSKS		08	00				
	NE	eSP		08	47				
	ZNE	eL		20	-				
	Z	M		33	58	13	- 3		
		F	24	20	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24	ZV,	iP	01	39	29			7930	Aftershock.
	NE	eS		48	47				
	ZNE	eL	02	05	-				
		F	04	00	-				
24	ZNE	e	11	02	02				Small.
		F		35	-				
24	ZNE	e	13	50	-				Small.
		F	14	00	-				
24	ZV,	e	16	47	55				Small with traces on Galitzins.
		F	17	40	-				
25	ZNE	e	08	50	-				Small.
		F	09	20	-				
26	ZNE	e(S)	04	58	30				
	NE	e	05	02	24				
	ZNE	eL	06	10	-				
		F	-	-	-				Overlapped.
26	ZV,	i(P)	06	45	10				
	E	i		53	58				
	ZE	e	07	02	24				
	ZNE	eL		07	-				
	N	M		14	52	19	-11		
	Z	M		19	47	15	+ 5		
		F	08	30	-				
26	ZNE	e	16	45	-				Small.
		F	17	30	-				
27	ZNE	e	11	35	-				Small.
		F	12	00	-				
29	ZNE	e	18	47	-				Small.
		F	19	00	-				
29/30	ZNE	e	23	15	-				Small.
		F	00	10	-				
30	Z	e	05	32	20				Small.
		F		55	-				
30	Z	e(P)	07	06	10				
	ZNE	e		20	28				
	ZNE	eL		40	-				
	N	M		53	15	23	+ 3		
		F	08	05	-				
30	ZNE	e	09	32	34				Small.
		F		50	-				
30	ZN	e	23	33	40				Small.
		F		45	-				
31	ZNE	e	02	00	-				Small.
		F		30	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. AUGUST, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
31	ZNE	eP	07	19	57			(12000)	
	ZNE	ePP		24	49				
	NE	eSKS		30	26				
	ZNE	e(PPS)		34	23				
	ZNE	eL		43	-				
	N	M	08	03	56	28	+11		
		F	09	25	-				
31	ZV,Z	e	17	29	18				
	NE	i		30	05				
	ZNE	i		30	29				
	ZE	i		31	19				
	NE	e		32	23				
		F		55	-				
31	Z	e(P)	20	04	02				
	NE	e		13	15				
	ZNE	eL		30	-				
		F	21	00	-				

FORM 3718. OS 50929/1/R139 150 9/50 CL

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR SEPTEMBER, 1950

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.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec^{-1}
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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,Z	eP	03	00	15			9,240	
	NE	eS		10	40				
	NE	ePS		12	23				
	ZNE	eSS		17	11				
	ZNE	eL		33	-				
		F		40	-				
1	ZV,	e(P)	07	23	18				
	ZNE	eL		47	-				
		F	08	25	-				
2	ZNE	eL	00	20	-				
		F		55	-				
2	ZV,Z	iP	02	59	03			8,350	Compression. e, NE. Aleutian Islands.
	NE	eS	03	08	44				
	ZNE	eL		20	-				52½°N., 169°W. (U.S.C.G.S)
	E	M		38	47	18	-4		
		F	04	55	-				
2	ZNE	e	10	30	-				Small.
		F		55	-				
2	Z	e(PKP)	13	20	26				Doubtful.
	ZNE	eL	14	35	-				
	N	M		48	49	26	+7		
		F	16	20	-				
2	ZV,Z	iP	16	26	02			(7,930)	Dilatation. e, NE. Repetition from Assam.
	NE	e		32	06				
	NE	e(S)		35	20				
	ZNE	eL		50	-				
	N	M		56	40	17	-4		
		F	18	20	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. SEPTEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	Z	eP	06	30	56			(7,450)	Doubtful.
	NE	e(S)		39	49				Further repetition
	ZNE	eL		55	-				from Assam.
		F	07	55	-				
4	ZNE	e	12	25	-				
		F		55	-				
4	ZNE	e	21	37	-				Small.
		F	22	10	-				
5	ZV,	i(P)	04	12	06				Probably two earthquakes
	ZV	i		14	55				superposed.
	ZV,ZE	i		15	30				Felt in Central Italy.
	ZNE	eL		15	-				
	N	M		16	23	22	+17		
		F	05	05	-				
5	NE	e	08	40	-				Small.
		F		50	-				
9	ZV,	ePKP	10	40	40			(14,000)	New Britain region.
	Z	e(PP)		43	09				4°S., 153°E. (U.S.C.G.S).
	NE	eSS		56	45				
	ZNE	eL	11	15	-				
	N	M		32	52	26	+6		
		F	13	00	-				
10	ZV,Z	iP	03	34	08			9,200	Near coast of Honshu, Japan.
	ZV,	i		34	18				35°N., 140°E. (U.S.C.G.S).
	ZNE	eS		44	31				
	ZNE	ePS		45	05				
	ZNE	eSS		50	03				
	ZNE	eL	04	00	-				
	E	M		06	09	34	+7		
		F	05	10	-				
10	ZV,ZNE	iPKP	15	35	29			(16,000)	Dilatation.
	ZV,Z	i(pPKP)		36	16				e, NE.
	ZV,	i(sPKP)		37	17				New Hebrides Islands regio
	ZNE	iPP		38	43				14°S., 167°E. (U.S.C.G.S).
	ZNE	iPKS		39	15				Probably somewhat deeper
	ZNE	ePPP		42	05				than normal.
	ZNE	eSKKS		45	22				
	ZNE	e(PS)		50	16				
	ZNE	eSS		58	00				
	ZNE	eL	16	15	-				
	N	M		32	48	23	-12		
		F	18	30	-				
11	ZNE	e	00	53	-				
		F	01	20	-				
11	ZV,	e(P)	09	52	06				
	ZNE	eL	10	20	-				
		F	11	00	-				
12	ZNE	e	05	45	-				
		F	06	00	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
13	NE	e	00	34	38				
	ZNE	eL		45	-				
		F	01	30	-				
13	ZV,	e(P)	11	24	27				
	ZNE	eL		45	-				Confused by microseisms.
	N	M		49	02	18	+12		
		F	13	00	-				
14	ZNE	e	09	35	35				
	ZNE	eL	10	00	-				Chart changing.
		F		55	-				
16	ZNE	e	01	40	-				
		F	02	45	-				Small.
18	ZNE	e	19	45	-				
		F	20	00	-				Small.
19	ZNE	ePKP	20	49	50				
	ZNE	ePP		52	38				Near northern coast of New Guinea.
	ZNE	i		59	46				2°S, 138½°E (U.S.C.G.S).
	ZNE	e	21	03	56				
	ZNE	e		06	46				
	NE	e		18	52				
	ZNE	eL		28	-				
	E	M		36	05	23	+21		
	N	M		43	30	21	+22		
	Z	M		43	48	21	+18		
		F	23	45	-				
21/22	ZV,	eP	23	03	20			10,000	
	Z	i		04	23				
	NE	eSKS		13	50				
	N	eSSS		24	13				
	ZNE	eL		30	-				
		F	00	40	-				
22	NE	e	04	25	-				Small.
		F		45	-				
22	Z	e(PP)	08	15	33				
	ZNE	e(SKKS)		21	59				
	ZNE	e(PPP)		30	11				By path > 180°.
	ZNE	eL		45	-				
	E	M		53	58	24	+4		
		F	09	30	-				
23	ZV,ZNE	iPKP	00	12	27				Dilatation.
	ZN	iPP		14	46				
	ZNE	ePPP		18	19				
	NE	eSS		30	11				Large on E.
	NE	e		36	52				
	ZNE	eSSS		39	45				Interpretations doubtful.
	ZNE	e		54	05				Deep focus.
	ZNE	e		56	51				
	ZNE	eL	01	05	-				Small.
		F	02	20	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
23	ZV,	iP	06	29	19			2,830	
	ZNE	iS		33	44				
	ZNE	eL		37	-				
		F	07	00	-				
23	ZNE	e	19	05	-				
	ZNE	eL		40	-				
		F	20	05	-				
24/25	ZV,	e(PP)	23	04	57				
	NE	e(S)		11	53				
	ZNE	eL		25	-				
		F	00	05	-				
26	ZNE	eL	00	03	-				
		F		55	-				
26	ZNE	e	15	00	-				Doubtful.
		F		20	-				
26	ZNE	eL	19	45	-				
		F	20	15	-				
27	NE	e	04	00	10				Small.
	ZNE	eL		10	-				
		F		50	-				
27	ZV,Z	i(P)	08	43	45				
	ZV,Z	e		44	12				
	ZNE	eL	09	45	-				Small.
		F	10	30	-				
27	ZNE	e	13	32	-				
		F		55	-				
28	ZV,Z	e(P)	03	46	12				
	ZNE	eL	04	10	-				
	Z	M		27	32	18	+4		
		F	05	05					
29	ZV,Z	iP	06	44	57			9,210	Dilatation. e, NE.
	Z	i		45	27				
	Z	i		46	23				
	ZNE	eS		55	20				
	E	eSS	07	02	00				
	ZNE	eL		07	-				
	N	M		14	42	22	+11		
	E	M		16	47	27	+45		
	Z	M		17	41	22	-49		
		F	09	25	-				
29	ZNE	e	23	05	-				
		F		30	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
30	ZV, ZE	iP	07	40	15			7,800	Compression.
	ZV, ZE	i		44	24				
	ZE	ePPP		44	44				
	NE	eS		49	28				
	E	e(SKS)		50	16				
	E	eSS		53	40				
	NE	eSSS		57	12				
	ZNE	eL	08	05	-				
	E	M		13	57	18	+11		
	Z	M		15	22	12	-8		
		F	09	05	-				

FORM 8718.

DS 55013/1/R139 150 10/50 CL.

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER, 1950

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.	22 July, 1949	21.6 sec.	23.2 sec.	- 0.06	52.1 sec^{-1}
E.	22 April, 1949	17.8	18.3	+ 0.04	70.8
Z.	20 May, 1949	14.2	12.5	- 0.05	133.

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	02	45	-				Small.
		F	03	20	-				
3	ZNE	e	07	05	-				Small.
		F		30	-				
3/4	ZV,	e P	23	13	32			8180	Microseisms.
	NE	e S		23	04				
	NE	e(SP)		24	05				
	ZNE	eL		40	-				
	E	M		44	08	23	+6		
		F	00	20	-				
5	ZNE	eL	01	50	-				Microseisms.
		F	03	10	-				
5	ZV, ZE	iP	16	21	32			9070	Compression. eN.
	ZV, ZE	ePP		24	24				Northwestern Costa Rica.
	ZE	ePPP		26	59				$10\frac{1}{2}$°N. 85°W. (U.S.C.G.S).
	NE	eS		31	49				
	ZV, ZNE	ePS		32	14				
	ZE	e		36	10				
	Z	eSS		37	00				
	NE	eSSS		40	36				
	ZNE	eL		45	-				
	E	M		49	39	23	> +420		
	Z	M		50	02	23	-260		
	N	M		53	00	20	-150		
		F	22	15	-				
5/6	ZNE	e	23	50	-				Small.
		F	00	20	-				
6	ZE	e	08	35	-				Small.
		F	09	10	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
7	NE	e	23	10	-				Large microseisms.
		F		35	-				
8	ZNE	eP	03	38	19			(12,500)	Large microseisms.
	ZV,ZNE	iPP		43	09				Molucca Islands
	ZNE	e		44	46				4°S, 128°E. (U.S.C.G.S).
	E	iSKS		48	54				
	NE	eSKKS		50	12				
	NE	iPS		52	43				
	Z	i		54	36				
	ZNE	iSS		59	04				
	NE	e	04	03	04				
	NE	eSSS		04	00				
	NE	e		08	08				
	ZNE	eL		15	-				
	E	M		37	09	21	+60		
	N	M		37	40	23	+110		
	Z	M		41	41	20	+40		
		F	-	-	-				Overlapped.
8	ZV,	iP	05	01	35				
		F	08	20	-				
8	ZNE	eL	15	50	-				Large microseisms.
		F	17	50	-				
13	NE	e	00	45	-				Small.
		F	01	15	-				
15	ZV,	ePP	16	21	50			(14,700)	Solomon Islands.
	ZNE	e		22	45				10°S, 160°E. (U.S.C.G.S).
	NE	ePS		32	23				
	ZNE	eSSS		43	56				
	ZNE	eL		55	-				
	N	M	17	09	58	30	+3		
		F	18	20	-				
16	ZNE	e	08	10	-				Small.
		F		20	-				
16	ZNE	e	16	20	-				Small.
		F		35	-				
17	ZNE	e	22	45	-				Small.
		F	23	10	-				
19	ZNE	e	04	10	-				Small.
		F		40	-				
19	ZV,	ePKP	10	19	47			(16000)	
	ZV,Z	ePP		23	29				
	E	eSS		41	57				
	NE	eSSS		50	05				
	ZNE	eL	11	15	-				
		F	12	10	-				
20	ZNE	e	08	10	-				Small.
		F		30	-				

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M.O.534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
21	ZV,ZNE	iPKP$_1$	04	32	33			(17,000)	Compression.
	Z	iPKP$_2$		33	04				
	ZNE	ePP		35	57				
	ZNE	e		42	36				
	N	iSKKS		42	52				
	Z	e		43	55				
	NE	ePPS		48	59				
	NE	eSS		54	58				
	ZNE	eL	05	15	-				
	N	M		33	56	22	-75		
		F	06	40	-				
21	ZV,ZNE	eP	09	55	52			8,960	
	ZV,Z	e		56	25				
	NE	eS	10	06	16				
	NE	ePS		06	36				
	ZNE	eSS		11	54				
	ZNE	eL		17	-				
	N	M		23	48	34	+9		
		F	11	20	-				
22	ZNE	e	06	02	-				Small.
		F		20	-				
23	ZV,ZE	iP	16	25	26			8,690	Compression. eN.
	ZE	i(PcP)		25	33				eN.
	ZNE	e		25	52				Near coast of Guatemala.
	ZNE	ePP		28	14				14½°N. 92°W. (U,S.C.G.S).
	ZNE	iS		35	24				
	ZNE	ePS		35	42				
	ZNE	e		36	34				
	ZNE	eSS		40	08				
	ZNE	eSSS		44	31				
	ZNE	eL		46	-				
	Z	M		59	39	19	+90		
	E	M	17	00	11	19	-105		
	N	M		05	43	16	+60		
	ZV,	i	18	00	01				Probably another shock.
		F	21	20	-				
24	ZNE	eL	00	15	-				Small.
		F	01	00	-				
24	Z	eP	01	04	10			(10,420)	
	ZNE	e(S)		15	26				
	ZNE	eL		25	-				
		F	02	40	-				
25	NE	eP	07	15	02			(9,730)	
	ZNE	e(SKS)		25	26				
	ZNE	e (S)		25	49				
	ZNE	eL		45	-				
		F	08	20	-				
26	N	e	04	38	-				
	ZNE	eL	05	10	-				
		F	06	15	-				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 19 50

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZE	eL	17	00	-				No "N-S" record.
	E	M		09	16	18	+2		Large microseisms.
		F	18	15	-				
28	ZNE	e	10	30	-				Small.
		F	11	15	-				
28	ZNE	eL	22	55	-				
		F	23	25	-				
29	ZNE	e	01	50	-				Small.
		F	02	20	-				
29	ZNE	e	06	42	-				Small.
		F	07	10	-				
30	ZNE	eL	03	40	-				
		F		55	-				
30/31	ZNE	e	23	52	-				Small.
		F	00	10	-				
31	ZV,Z	e(P)	19	27	22				Microseisms.
	ZNE	e		32	31				
	ZNE	eL		38	-				
	Z	e		50	46				
		F	20	30	-				
31	ZNE	eL	21	00	-				
	E	M		09	45	19	-3		
		F		40	-				

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DS 59854/1/A139 150 11/50 CL

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M.O. 554

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER 1950

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.	22 July 1949	21.6 sec.	23.2 sec.	-0.06	52.1 sec^{-1}
E.	22 April 1949	17.8	18.3	-0.04	70.8
Z.	20 May 1949	14.2	12.5	-0.05	133.

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	13 25 -				
		F	14 50 -				
2.	ZNE	e	07 31 00				
	NE	e	31 21				
	NE	e	37 25				
	ZNE	eL	52 -				
		F	08 40 -				
2	ZV,ZNE	e(P)	15 43 00			(2,800)	Banda Sea Region
	ZV,ZNE	e	44 00				6°S., 129½°E. (U.S.C.G.S.)
	ZV,ZNE	iPKP	46 38				
	ZNE	ePP	48 05				
	ZNE	e	49 09				Large
	ZNE	ePPP	51 36				Large
	Z	ePS	57 41				
	NE	ePPS	58 33				
	NE	e(SKKS)	16 06 01				
	NE	eSSS	08 57				
	ZNE	eL	15 -				
	N	M	34 09	35	-140		
	E	M	43 29	27	+70		
	Z	M	45 52	20	-23		
		F	20 15 -				
2	ZNE	e	20 52 -				
	ZNE	eL	58 -				
		F	21 25 -				
5	Z	e	16 58 -				
	ZNE	eL	17 15 -				
		F	- - -				Overlapped by following shock
5	Z	iP (contd.)	17 50 12			(9,240)	Compression e,NE

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. — NOVEMBER 1950

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
	(contd)		h. m. s.	sec.	μ	km.	
5	ZNE	ePP	17 53 09				
	ZNE	e	57 01				Off Coast of Shikoku, Japan
	NE	eSKS	18 00 11				33°N., 134½°E. (U.S.C.G.S.)
	ZNE	eS	00 37				
	ZNE	ePS	00 53				
	ZNE	e	02 17				
	ZNE	eSS	06 21				
	ZNE	eL	18 -				
	N	M	33 24	15	-40		
	Z	M	35 23	15	+30		
	E	M	35 27	13	+24		
		F	20 35 -				
6/7	ZNE	ePKP	22 44 49			(14,000)	Microseisms. Solomon Islands
	Z	e(PS)	57 35				Region 7½°S., 155½°E.
	N	e(SS)	23 07 16				(U.S.C.G.S.
	ZNE	eL	28 -				
	N	M	37 58	22	-3		
		F	00 45 -				
8	ZV,Z	iPKP	02 40 08			(13,800)	e,NE
	Z	i	40 20				e,NE
	ZV,ZNE	iPP	41 12				
	ZNE	ePPP	44 40				Solomon Islands Region
	NE	eSKS	46 58				9½°S., 159½°E. (U.S.C.G.S.
	ZNE	ePKKP	50 08				
	ZNE	ePS	52 10				
	ZNE	ePPS	54 08				
	ZNE	ePPP	57 20				>180°
	ZNE	ePSS	59 40				
	ZNE	eSSS	03 03 04				
	ZNE	eL	12 -				
	N	M	32 03	25	-33		
	Z	M	35 00	23	+18		
	E	M	43 06	19	+12		
		F	06 10 -				
10	NE	e	02 31 05				Microseisms
	ZNE	eL	50 -				
		F	03 50 -				
11	ZNE	e	04 45 -				ditto
		F	05 10 -				
12	ZNE	e	09 55 -				ditto
		F	10 30 -				
12	ZNE	e	22 05 -				ditto
		F	30 -				
14	ZN	e	04 45 -				ditto
		F	05 10 -				
14	ZNE	e	22 40 -				ditto
		F	23 10 -				
16	ZNE	e	09 45 -				Small
		F	10 15 -				

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M.O. 534

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
17	ZNE	eL	16	15	-				
	N	M		23	47	13	+3		
		F		40	-				
17	ZV,ZNE	eP	19	40	51			8,990	Near West Coast of Mexico
	ZV,ZNE	ePP		43	56				17°N., 100½°W. (U.S.C.G.S.
	NE	eS		51	03				
	ZV,Z	ePS		51	12				
	ZNE	eSS		55	48				
	ZNE	eSSS		59	31				
	ZNE	eL	20	03	-				
	N	M		19	08	18	-5		
	E	M		19	08	18	+6		
	Z	M		19	12	16	+4		
		F	21	10	-				
17	ZNE	eL	22	28	-				
		F		50	-				
19	ZNE	e	22	00	-				Microseisms
		F		15	-				
21	ZNE	e	21	27	-				Microseisms
		F		45	-				
22	Z	eP	10	28	31			8,430	Aleutian Islands Region
	NE	eS		38	16				51°N., 176°W. (U.S.C.G.S.)
	NE	e(SKS)		38	50				
	N	ePS		39	16				
	NE	eSS		43	18				
	NE	eSSS		47	08				
	ZNE	eL		50	-				
	N	M	11	03	47	20	-5		
		F	12	05	-				
24	Z	ePKP	13	23	19				
	Z	ePP		26	33				
	ZNE	eL	14	15	-				
		F	15	25	-				
24	Z	ePKP	20	38	01			(17,500)	
	NE	ePPS		55	57				
	NE	e	21	00	29				
	NE	eSS		01	49				
	ZNE	eL		33	-				
	N	M		40	33	19	+3		
		F	22	50	-				
25	ZNE	e	17	40	-				Microseisms
		F		50	-				
28	ZV,Z	e	17	59	15				Microseisms
	NE	e	18	02	39				
	ZNE	eL		05	-				
	N	M		07	37	14	-7		
		F		20	-				
30	NE	e	18	50	-				Microseisms
		F	20	00	-				

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M.O. 534

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER, 1950

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.	22 July 1949	21.6 sec.	23.2 sec.	-0.06	52.1 sec.$^{-1}$
E.	22 April 1949	17.8	18.3	+0.04	70.8
Z.	20 May 1949	14.2	12.5	-0.05	133.

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,Z	iP	15	00	09			5,890	Mid-Atlantic Ocean. 14°N, 47°W. Depth about 100 Km. (U.S.C.G.S.).
	ZV,Z	i		00	13				
	ZV,Z	ePP		02	12				
	ZNE	iS		07	37				
	NE	eScS		10	32				
	NE	eSS		11	19				
	ZNE	eL		13	-				
	N	M		18	08	17	+55		
	Z	M		18	10	18	+60		
	E	M		19	24	18	-65		
		F	18	30	-				
2	ZV,	iP	15	30	49			(9500)	Western Brazil 8°S, 71½°W depth about 650 Km. (U.S.C.G.S).
	ZV,	ipP		33	06				
	ZV,E	iSKS		40	12				
	NE	eS		40	24				
	NE	eSP		41	26				
	NE	eSSS		45	20				
	NE	eSSS		49	54				
	NE	e		53	16				
		F	16	30	-				
2	ZV,ZN	iPKP$_1$	20	11	26			(16000)	Compression New Hebrides region 18°S, 167°E. (U.S.C.G.S.).
	ZNE	iPKP2		11	50				
	ZV,ZNE	ePP		15	06				
	ZNE	ePPP		18	25				
	ZV,ZNE	e(HKKP)		20	19				
	NE	ePS		25	12				
	NE	eSS		32	45				
	ZNE	ePSS		34	07				
	ZNE	eL		50	-				
	N	M	21	04	12	31	+86		
	E	M		04	46	26	+40		
	Z	M		22	17	18	-30		
		F	00	50	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
3	ZV,	i(P)	06	38	16			(8240)	
	ZV,	i		38	25				
	N	e(S)		47	51				
	ZNE	eL	07	05	-				
	N	M		12	45	18	+5		
		F		45	-				
3	ZV,	i	08	07	13				Small.
		F	10	20	-				
4	ZV,Z	e	07	57	48				Small.
	NE	e	08	20	11				Aftershock of 2nd 19h.
	NE	e		21	33				
	NE	eL		48	-				
		F	09	10	-				
4	ZV,Z	iPKP	16	47	03			(13,700)	NE,e.
	ZV,Z	ipPKP		47	29				New Britain region
	NE	ePP		50	21				5°S, 153½°E. depth about
	NE	epPP		50	43				100 Km. (U.S.C.G.S.).
	NE	eSKKS		55	55				
	NE	e(SS)	17	08	55				
	ZNE	eL		10	-				
	E	M		33	16	29	+16		
	N	M		36	38	25	*32		
	Z	M		49	57	18	-7		
		F	19	15	-				
5	ZV,	e	22	21	51				
	ZNE	eL		40	-				
	E	M		44	01	23	-4		
		F	23	15	-				
9/10	ZV,Z	iP	21	52	05			(11,000)	NE,e.
	ZNE	ipP		52	35				Northern Argentina
	ZNE	i		53	07				- Chile border region.
	ZNE	iPP		55	43				24°S, 67½°W. depth about
	ZNE	ePPP		59	35				200 Km. (U.S.C.G.S).
	NE	eSKS	22	02	31				
	ZNE	eS		03	10				
	Z	e(SS)		08	53				
	ZNE	eL		10	-				
	E	M		31	26	23	+110		
	Z	M		31	30	22	+200		
	N	M		36	12	18	+110		
		F	02	20	-				
10	ZV,ZNE	eP	03	04	12			(11,400)	Near Southern coast of Peru
	NE	eSKS		14	18				14½°S, 76½°W.
	NE	eSKKS		14	44				depth about 60 Km.
	NE	ePS		16	41				(U.S.C.G.S.).
	ZNE	eL		25	-				
	Z	M		38	52	24	+4		
	N	M		39	12	24	+10		
	E	M		39	12	24	+9		
		F	04	20	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	ZV,Z	iPKP$_1$	14	42	33			(17,200)	NE,e. Dilatation.
	ZV,Z	iPKP$_2$		43	06				NE,e.
	ZNE	iPP		46	44				Kermadec Islands region.
	ZNE	eSKKS		53	00				28½°S, 179°W.
	ZNE	eSKSP		56	59				depth about 300 Km.
	NE	ePPS	14	01	14				(U.S.C.G.S.).
	NE	e		02	00				
	ZNE	eSS		06	07				
	ZNE	e		09	59				
	ZNE	eSSS		14	54				
	ZNE	eL		18	-				
	E	M		39	47	25	-12		
	N	M		40	04	28	-18		
		F	17	20	-				
12	ZNE	eL	02	30	-				
		F	03	15	-				
14	ZV,Z	iPKP$_1$	02	12	10			(15,000)	NE,e. Compression.
	ZV,ZNE	iPKP$_2$		12	18				Tonga Islands region.
	ZV,ZNE	i		13	21				19½°S. 176°W.
	ZV,ZNE	iPP		15	44				depth about 200 Km.
	ZV,ZNE	i		15	56				(U.S.C.G.S).
	ZV,ZNE	ePSKS		23	30				
	ZV,ZNE	e		25	58				
	ZNE	eL		32	-				
	E	M		34	(34)	21	-150		
	Z	M		36	(09)	13	+24		
	N	M		53	43	20	-52		
		F	06	30	-				
14	ZV,ZNE	iP	14	28	09			(10,000)	Southern Mexico
	ZV,ZNE	i		28	24				17°N, 98°W. (U.S.C.G.S.).
	Z	e		29	40				
	ZV,ZNE	ePP		31	14				
	NE	eSKS		38	34				
	ZNE	e		39	10				
	ZNE	e		44	04				
	Z	iSS		46	32				
	N	i		47	16				
	ZNE	eL		50	-				
	Z	M	15	04	01	19	+56		
	E	M		04	11	19	-75		
	N	M		08	20	19	-34		
		F	18	30	-				
18	ZV,Z	eP	08	16	30			(11,100)	Quatemala.
	ZV,Z	e		17	18				15°N, 90°W. depth about
	ZV,Z	ePP		20	33				200 Km. (U.S.C.G.S.).
	NE	e		26	10				
	NE	eSKS		27	37				
	ZNE	eL		35	-				
		F	09	00	-				
18	ZNE	e	16	13	37				Small.
	ZNE	e		21	21				
	N	e		27	07				
	ZNE	eL		40	-				
		F	17	30	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 1950

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	ZE	e	21	30	15				ZV record lost.
	NE	e		32	07				
	NE	e		36	09				
	ZNE	eL		37	-				
		F		55	-				
19/20	N	e(L)	23	55	-				
		F	00	35	-				
22	ZNE	eL	09	52	-				
	N	M		58	52	26	+6		
		F	10	30	-				
24	ZV,	e	05	44	17				
	ZNE	eL	06	00	-				
		F		30	-				
24	ZNE	e	17	05	-				Very small.
		F		30	-				
26	ZNE	eL	14	35	-				Small.
		F	15	05	-				
28	ZNE	e	22	41	52				
	N	eL		45	-				
		F	23	00	-				
29	ZE	e	12	15	21				
	ZNE	e		22	25				
	ZNE	eL		27	-				
	N	M		31	34	16	-10		
		F	13	25	-				
29	ZNE	eL	20	40	-				Small.
		F	21	20	-				
29	Z	e	22	46	5_				
	NE	e		56	23				
	ZNE	eL		10	-				
	N	M		17	33	21	-5		
		F		55	-				
30	Z	e	07	03	27				Small.
	ZNE	eL	08	05	-				
		F		50	-				

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