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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JANUARY, 1957

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: (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{\lambda k}{\pi l}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE.	Δ km.	REMARKS.
2	ZV,Z	iP	00	51	16			8480	Compression.
	ZV,N	e		51	26				
	E	eS	01	00	57				
	N	iScS		01	12				53°N., 168½°W. Fox Islands,
	NE	ePS		01	44				Aleutian Islands.
	N	e		10.1	–				Mag. 6½–6¾ (Pas) U.S.C.G.S.
	E	eL		11	–				
	EN	eL_2		20½	–				
	N	M		30	–	17	11		
	E	M		32	–	17	8		
	Z	M		32	–	17	7		
		F	02	30	–				
2	ZV,Z	iP	02	29	27			8500	Compression.
	ZV,Z	e		29	32				
	ZV,Z	ePP		32	16				
	E	eS		39	09				
	N	eSKS		39	21				52½°N., 168°W. Fox Islands.
	NE	eScS		39	28				Aleutian Islands.
	N	iPS		39	50				Mag. 6¾ (Pas). U.S.C.G.S.
	N	iPPS		40	06				
	N	e		44	44				
	E	e(SSS)		47.0	–				
	N	e		48.0	–				
	E	eL		49	–				
	NE	eL_2		58½	–				
	Z	M	03	10	–	16	12		
	E	M		13	–	18	21		
	N	M		13	–	19	23		
		F	–	–	–				overlapped by next shock.

Form 3717.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
2	ZV,Z	iP	03	24	44			(8500)	Confused by previous shock.
	E	e(S)		34	25				
	E	M	04	00	-	19	16		53°N., 168°W. Fox Islands.
	N	M		04	-	19	23		Aleutian Islands. Mag. 7 (Pas).
	Z	M		04	-	18	12		U.S.C.G.S.
		F	-	-	-				overlapped by next shock.
2	ZV	eP	03	42	23				Fox Islands aftershock.U.S.C.G.S.
2	ZV,Z	iP	04	00	36.5			8510	Compression.
	ZV,Z	e		00	46				53°N., 168°W. Fox Islands.
	E	eS		10	19				Aleutian Islands. Mag. 7-7¼(Pas).
	E	M		36	-	19	31		U.S.C.G.S.
	N	M		39	-	18	33		
	Z	M		39	-	18	22		
		F	-	-	-				overlapped by next shock.
2	ZV,Z	iP	04	15	20				Dilatation.
	ZV,Z	iPP		18	19				
	E	M		57½	-	17	10		52½°N., 169°W. Fox Islands,
	N	M		59½	-	18	15		Aleutian Islands. U.S.C.G.S.
	Z	M	05	00½	-	15	9		
		F	06	55	-				
2	ZV,Z	iP	11	01	18				
	N	e(ScS)		11	18				52½°N., 168°W. Fox Islands
	NE	eL_2		30½	-				aftershock. Mag. 6½ (Pas).
	E	M		40	-	17	3		U.S.C.G.S.
	N	M		40	-	17	4		
		F	12	40	-				
2	N	e	13	35	-				Very small. 53°N., 168°W.
		F		50	-				Fox Islands aftershock.U.S.C.G.S.
3	ZV,Z	iP	00	52	50				Compression. Small.
	N	eL	01	22	-				53°N., 168°W. Fox Islands
		F		55	-				aftershock. U.S.C.G.S.
3	ZV,ZN	iP	12	59	17	6	11(Z)	8380	Dilatation. Depth = 570 Km.
	ZV,ZN	iPcP		59	25				
	ZV,Z	ipP	13	01	17	7	7(Z)		Dilatation.
	ZV,Z	ipPcP		01	29				
	ZV,Z	esP		02	11				
	ZV,ZNE	iPP		02	18				44°N., 130°E. Southern Manchuria.
	Z	ipPP		03	53				Mag. 7 (Pas). h about 600 Km.
	ZV,ZN	iPPP		04	10				U.S.C.G.S.
	NE	iS		08	11	11	33(E)		
	ZNE	iScS		08	34	10	11(N)		
	ZV,ZN	i		08	52				
	E	e		11	30				
	N	e		12	09				
	E	i(sSS)		16	32				
	N	e		16	46				
	NE	e		17.9	-				
	E	i		19	38				
		F	14	20	-				

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JANUARY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
3	ZV	iP	13	54	19				Dilatation. Manchuria aftershock. U.S.C.G.S.
6	NE	eL	00	48	-				Very small. Confused by microseisms. ½°S., 20°W. Mid-Atlantic Ocean. U.S.C.G.S.
		F		50	-				
9	NE	e(S)	08	14	32				Confused by microseisms.
	E	i		15	03				
	N	eL		30	-				53°N., 167½°W. Fox Islands aftershock. Mag. 6½ (Pas). U.S.C.G.S.
	NE	eL		38	-				
	N	M		44	-	18	8		
	E	M		46½	-	18	8		
		F	09	30	-				
10	NE	eL	05	03	-				Small. 6°N., 95½°E. Northern Sumatra. U.S.C.G.S.
		F		40	-				
11	E	e(PS)	23	56	15				Very small. 27°N., 127½°E. Ryukyu Islands. U.S.C.G.S.
12	EN	eL	00	20	-				
		F		35	-				
13	ZV,Z	iP	11	47	14				Confused by microseisms. 38½°N., 71°E. Tadshik, U.S.S.R. U.S.C.G.S.
	EZ	eL	12	10	-				
		F		25	-				
19	ZV	iPKP	05	35	20				Dilatation. 20½°S., 179°W. Fiji Islands. Mag. 6½ (Berk) U.S.C.G.S.
	ZV	e		35	28				
	ZV	ePP		38	50				
20	ZV	i(pP)	18	22	24				36½°N., 72°E. Hindu Kush. h about 200 Km. U.S.C.G.S.
	ZV	e(sP)		22	46				
23	NE	e	17	37	-				Small. Confused by microseisms. 37°N., 22°E. Greece. U.S.C.G.S.
		F		50	-				
24	NE	eL	08	00	-				Small. Confused by strong microseisms. 12½°S., 78°W. Near coast of Peru. U.S.C.G.S.
	NE	M		07½	-				
		F		25	-				
25	NE	e(S)	03	58	36				Confused by strong microseisms. 51½°N., 177°W. Andreanof Islands. Mag. 6½ (Pas). U.S.C.G.S.
	NE	eL	04	10	-				
		F		50	-				

FORM 3718.

DS53576/1/R94 140 2/57CL

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY, 1957

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: (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{wl}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	ZV,Z	ePKP	12	05	26				
	ZV,	e		05	34				
	ZV	e		05	40				21½°S., 170°E. Loyalty Islands region. U.S.C.G.S.
	N	eL	13	10	-				
		F		20	-				
3	N	eL	17	47	-				Small. Confused by strong microseisms. Kamchatka foreshock. U.S. C.G.S.
		F		55	-				
3	E	eL	18	03½	-				Confused by strong microseisms.
	N	eL		05½	-				
	E	M		12	-	16	11		53½°N., 159°E. Kamchatka. Mag. 6½–6¾(Pas). U.S.C.G.S.
	N	M		15	-	14	13		
		F		55	-				
3	E	eL	21	55	-				Small. Confused by strong microseisms. Kamchatka aftershock. U.S.C.G.S.
		F	22	15	-				
3	NE	e	23	40	-				Small. Confused by strong microseisms. Kamchatka aftershock. U.S.C.G.S.
		F		55	-				
5	ZV	ePKP	04	21	17				18°S., 176½°W. Fiji Islands. U.S.C.G.S.
6	NE	eL	13	48	-				Small. 2°N., 91°W. Galapagos Islands region. Mag. 6(Pas). U.S.C.G.S.
		F	14	10	-				

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SEISMOLOGICAL BULLETIN. FEBRUARY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
6	ZV,Z	iP	20	45	10			(6850)	Confused by microseisms.
	ZV	e		45	20				
	ZV	e(PcP)		45	48				
	ZV	e(PP)		47	26				50°N., 106°E. Lake Baikal region,
	E	e(S)		53	28				U.S.S.R. U.S.C.G.S.
	NE	eL	21	05	-				
	E	M		15	-	14	10		
	N	M		15	-	14	9		
	Z	M		15	-	14	10		
		F		40	-				
9	ZV	iPKP	13	49	11				34°S., 180° Off coast of New Zealand. Mag. 6¼(Pas) U.S.C.G.S.
9	NE	eL	17	16	-				Confused by microseisms.
	E	M		24	-	16	4		41½°N., 126°W. Near coast of
	N	M		24	-	16	5		Northern California. Mag. 6¼-6½
		F		35	-				(Pas). U.S.C.G.S.
9	ZV	ePKP	18	15	48				Tonga Islands. U.S.C.G.S.
10	ZV	eP	05	54	03				
	ZV,Z	i		54	09				Compression.
	N	eL	06	00½	-				35½°N., 35°W. Azores Islands
	E	M		03	-	16	5		region. Mag. 5¾(Pas). U.S.C.G.S.
	N	M		03	-	14	7		
		F		12	-				
10	E	e(SKS)	22	57	04				Confused by microseisms.
	N	e(S)		58	02				
	NE	e(PS)		59	40				10°N., 126°E. Mindanao foreshock.
	N	e(PKKP)	23	02	34				Mag. 6½-6¾ (Pas). U.S.C.G.S.
	NE	eL		13½	-				
	E	M		31	-	21	15		
	N	M		31	-	21	20		
	N	M		39½	-	17	21		
	Z	M		39½	-	17	10		
		F	-	-	-				overlapped by next shock.
10	E	e(SKS)	23	15	42				Confused by microseisms.
	N	e(S)		16	44				
	E	e(PS)		18	22				10½°N., 126½°E. Mindanao
	E	M		49½	-	20	20		Philippine Islands.
	N	M		49½	-	20	30		Mag. 6¾(Pas). U.S.C.G.S.
	N	M		58	-	18	33		
	Z	M		59½	-	18	13		
		F	01	00	-				
11	E	e(SKS)	01	39	33				Confused by microseisms.
	N	e(S)		40	32				
	NE	e(PS)		42	18				10°N., 126°E. Mindanao aftershock.
	E	e(PPS)		43	10				Mag. 6½(Pas). U.S.C.G.S.
	NE	eL		55½	-				
	E	M	02	13½	-	20	17		
	N	M		13½	-	20	22		
	N	M		23½	-	18	19		
	Z	M		23½	-	18	15		
		F	03	10	-				

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11	N	eL	04	42	-				Confused by microseisms.
	N	M		52	-	17	3		Mindanao aftershock. U.S.C.G.S.
		F	05	00	-				
11	N	eL	15	20	-				Confused by microseisms.
	N	M		24	-	20	5		
	E	M		26	-	20	3		10°N., 126°E. Mindanao
	N	M		32	-	18	6		aftershock. Mag. 6¼(Pas).
	E	M		32	-	18	2		U.S.C.G.S.
		F		55	-				
11	ZV,ZN	iPn	15	43	26.5			165	Dilatation.
	ZN	iPg		43	31				Dilatation.
	ZNE	iSn		43	46				
	NE	i(Sg)		43	51				Ho = 15 43 00
	E	i		44	00				52.8°N., 1.3°W. England. Felt
	E	M		44.1	-	8	34		over Midland and neighbouring
	N	M		44.1	-	10	8		counties. One person injured,
	Z	M		44.1	-	8	4		slight property damage.
		F		48.0	-				Confused by microseisms.
12	N	eL	09	36	-				Small. Confused by microseisms.
		F		55	-				48½°N., 155°E. Northern Kurile
									Islands. U.S.C.G.S.
13	ZV	iPn	00	00	08			165	Dilatation.
	ZV,NE	eSn		00	27				
	ZV	e		00	44				Midland aftershock.
		F		02.0	-				
13	NE	eL	01	13	-				
	E	M		36	-	17	4		Confused by strong microseisms.
	N	M		36	-	17	6		10°N., 126½°E. Mindanao aftershock
	Z	M		36	-	17	4		U.S.C.G.S.
		F	02	10	-				
14	NE	e	23	53	-				Small.
		F	24	10	-				
17	ZV	iP	15	59	02			9250	
	N	eS	16	09	19				
	E	e		09	20				16°N., 96½°W. Oaxaca, Mexico.
	E	eScS		09	27				h about 60 Km. Mag.5¾-6(Pas)
	E	eL		27	-				U.S.C.G.S.
	E	M		35	-	20	2		
	N	M		35	-	20	2		
		F		45	-				
18	N	eL	08	34	-				Very small.
		F		47	-				
18	NE	e	15	07	-				Very small. 25½°N., 45½°W.
		F		25	-				Mid-Atlantic Ocean.Mag.6¼-6½(Pas).
									U.S.C.G.S.
19	ZV	eP	00	02	48				Depth 80 Km. 11½°S., 78°W. Near
	ZV	epP		03	10				coast of Peru.Mag.6½-6¾(Pas).
									U.S.C.G.S.

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	ZV,Z	eP	07	48	51			2480	Mag. = 6.2
	ZV,Z	i		49	16				Ho = 07 43 55
	ZV,Z	ePP		49	29				
	N	iS		52	49				
	E	e		52	52				37°N., 20¾°E. Off coast of
	NE	eLQ		54.0	-				Peloponese. B.C.I.S.
	NE	iL2		57	02				
	E	M		57.4	-	17	19		
	N	M		57.4	-	17	70		
	Z	M		57.6	-	17	20		
		F	08	45	-				
19	NE	e	20	42	-				Very small. 56°N., 164°E.
		F	21	00	-				Kamchatka. U.S.C.G.S.
20	ZV,Z	iP	04	45	01			1920	Mag = 5.6
	ZV,Z	i		45	07				
	E	eS		48	11				36½°N., 9°E. Northern Tunisia.
	NZ	e		48	17				13 killed, many injured and
	NE	eLQ		49	-				extensive property damage.
	N	M		51.3	-	16	8		U.S.C.G.S.
	Z	M		51.5	-	16	8		
	E	M		52.0	-	12	8		
		F	05	10	-				
20	N	eL	22	51	-				Very small. 2°N., 97°E.
		F	23	15	-				Near coast of Sumatra. U.S.C.G.S.
21	N	e	01	26	27				Small.
	NE	eL		35	-				
		F	02	00	-				
22	NE	e	18	00	-				Very small. Confused by strong
		F		12	-				microseisms.
23	NE	e	13	51	-				Small. Confused by microseisms.
		F	14	00	-				
23	ZV,Z	eP I	20	39	10			10000	Possibly two shocks. Confused by
	ZV,Z	i		39	14				strong microseisms.
	~~ZV,Z~~	~~i(PII)~~		~~39~~	~~35~~				
	ZV,Z	iPP		42	42				
	ZV,Z	i		43	02				
	NE	iSKS		49	40				24°N., 122°E. Formosa. 11 killed
	NE	iS I		49	58				many injured and extensive
	~~NE~~	~~i(SII)~~		~~50~~	~~23~~				property damage at Hualien and
	NE	i		51	21				Taipei. Mag. 7-7¼(Pas) U.S. C.G.S.
	N	eSS		55	35				
	N	eSSS		59	39				
	NE	eLQ	21	02½	-				
	NE	eLR		09	-				
	N	M		14½	-	28	153		
	E	M		15	-	26	98		
	E	M		24	-	17	76		
	N	M		24	-	17	97		
	Z	M		24	-	16	79		
		F	23	00	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY, 19 57

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	NE	e	03	54	-				Very small.
		F	04	07	-				
27	NE	e	15	43	-				Very small.
		F	16	03	-				

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No. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH, 1957

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: (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	28	-				Very small.
		F		45	-				
2	ZV,Z	iP	00	38	37			7800	Mag = 6.4
	ZV,ZE	i		38	45				
	ZE	e(PcS)		43	16				
	NE	e		47	39				
	N	iS		47	45	~~13~~	~~10(SH)~~		
	ZE	ePS		48	13				
	E	eScS		48	31				18½°N., 78°W. Jamaica. Moderate
	N	i		48	44				property damage at Montego Bay
	NE	eSS		52	01				and Kingston. 2 killed and 5
	NE	eSSS		55	07				injured. Mag. 6¾(Pas) U.S.C.G.S.
	N	eLQ		56½	-				
	ZNE	eLR	01	00	-				
	Z	iPKPPKP		06	57				
	E	M		10	-	18	9		
	N	M		10	-	18	5		
	Z	M		10	-	18	7		
		F	02	20	-				
2	ZV	ePKP	08	29	37				Mag = 6.2
	ZV	e		29	56				
	N	M	09	28	-	20	3		6°S., 151°E. Near south coast of
	E	M		29	-	20	2		New Britain. U.S.C.G.S.
		F	10	15	-				

Form 8717.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
3	E	eL	04	01	-				Small. 8½°N., 103°W. Off coast of
		F		35	-				Mexico. Mag. 5¾(Pas) U.S.C.G.S.
3	N	eL	23	56½	-				
	N	M		57.0	-	16	2		
		F	24	00	-				
5	ZV,Z	eP	12	31	24			3820	Mag = 6.1
	ZV,Z	e		31	34				
	NE	eS		36	49				
	N	eSS		39	00				31½°N., 38½°W. North Atlantic
	N	eLQ		39½	-				Ocean. B.C.I.S.
	NE	eLR		41	-				
	E	M		42½	-	18	13		
	N	M		43	-	16	12		
	Z	M		43	-	17	8		
		F	13	40	-				
6	N	eL	17	48	-				Very small.
		F		55	-				
8	N	e	06	39	-				Very small.
	N	M		41	-				
		F		43	-				
8	N	e	07	27	-				Very small.
	N	M		28½	-				
		F		33					
8	ZV,Z	iP	12	18	53	6	14(PZ)	2260	Compression.
	ZV,ZNE	i		18	55	~~7~~	~~14(PH)~~		Compression.
	Z	i		19	09				Mag = 6.7
	Z	iPP		19	17				
	Z	i		19	46				Ho = 14h. 14m. 16s.
	ZNE	iS		22	35	~~9~~	~~71(SH)~~		
	ZNE	i		22	39				39.5°N., 22.8°E. (B.C.I.S.)
	N	eL		23½	-				Eastern Greece foreshock.
	E	M		25.7	-	19	99		
	N	M		25.8	-	18	288		
	Z	M		27.6	-	10	123		
	E	M		27.7	-	10	157		
		F	-	-	-				overlapped by next shock.
8	ZV,Z	iP	12	25	52	6	18(PZ)	2250	Compression.
	ZV,Z	iS		29	33	~~10~~	~~107(SH)~~		Mag = 6.9
	E	M		32.7	-	18	199		Ho = 12h. 21m. 16s.
	N	M		32.8	-	18	553		39.5°N. 22.8°E. (B.C.I.S.)
	Z	M		34.7	-	10	163		Eastern Greece, 3 dead many
	E	i(PKKP)		53	17				injured and moderate property
		F	14	20	-				damage at Farsala, Larissa and
									Volos. U.S.C.G.S.

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SEISMOLOGICAL BULLETIN.

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DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
8	ZV,Z	iP	20	42	38			2300	Mag = 5.6
	NE	eS		46	22				
	N	eL		48	-				Ho = 20h. 37m. 58s.
	E	M		49½	-	17	3		39.5°N.,22.8°E. (B.C.I.S.)
	N	M		49½	-	16	7		Eastern Greece aftershock.
	Z	M		51½	-	10	5		
	E	M		51½	-	12	8		
		F	21	03	-				
8	ZV,Z	iP	23	39	49			2260	Compression.
	Z	i		39	56				Mag = 6.1
	E	iS		43	31	~~8~~	~~11 (SH)~~		
	N	eL		44	-				Ho = 23h. 35m. 12s.
	E	M		46.8	-	17	20		39.5°N., 22.8°E. (B.C.I.S.)
	N	M		46.8	-	17	63		Eastern Greece aftershock.
	Z	M		48.6	-	10	30		
	E	M		48.7	-	12	43		
		F	24	35	-				
9	ZV	eP	04	06	23				Mag = 5.2
	N	M		13	-	16	2		Eastern Greece aftershock.
		F		17	-				
9	ZV,	eP	14	34	19			8560	Multiple shock.
	ZV,ZN	iP		34	28				Mag = 7.6
	ZV,ZN	iP		34	38				
	ZV,ZN	iP		35	02	14	57 (PZ)		PH = 16sec 44μ
	E	iS		44	47	~~21~~	~~88 (SH)~~		
	N	iScS		45	09				51°N., 175°W. Andreanof Islands,
	E	iSS		50	07				Aleutian Islands. Seismic sea wave
	E	M		19	-	-	-		caused destruction of two villages
	N	M		21	-	20	590		and $ 3,000,000 damage on Oahu and
	Z	M		21	-	19	480		Kauai. T.H. Mag 8-8½(Pas) USCGS.
		F	-	-	-				
9	ZV,Z	iP	14	44	39				Aleutian Islands aftershock.
9	ZV	iP	14	45	07				" " "
9	ZV	iP	15	02	17				" " "
9	ZV	iP	15	22	31				" " "
9	ZV	iP	15	53	52				" " "
9	ZV	iP	16	44	32				" " "
9	ZV	eP	16	57	35				" " "
9	ZV	iP	16	57	52				" " "
9	ZV	iP	20	12	54				" " "
9	ZV	iP	20	13	07				" " "
9	ZV	iP	20	33	55				
9	ZV,ZN	iP	20	51	06	10	12 (PZ)	8560	
	Z	iPP		53	59	~~16~~	~~12 (PH)~~		Mag = 7.0
	E	iS	21	00	51	~~18~~	~~19 (SH)~~		
	N	iSKS		01	09				
	N	i		01	27				
	NZ	iPS		01	37				
	NE	iSS		05	47				52½°N., 169½°W. Fox Islands,
	E	iSSS		08	55				Aleutian Islands. Mag 6¾-7 (Pas)
	E	eLQ		11	-				U.S.C.G.S.
	E	M		31	-	19	36		
	N	M		31	-	19	99		
	Z	M		31	-	19	62		
		F	24	50	-				
9	ZV	iP	22	08	12				Fox Islands aftershock.
9	ZV	iP	23	11	24				" " "
	ZV	i		11	36				

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SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	ZV	eP	23	33	41				Fox Islands aftershock.
10	ZV	iP	01	57	43				Fox Islands aftershock.
10	ZV,Z	iP	03	18	07	8	4(PZ)	8660	Mag = 6.7
	NE	eS		27	59	~~15~~	~~7(SH)~~		PH = 14sec 4μ
	N	iPS		28	43				
	N	iSS		33	40				
	E	eLQ		39	-				52°N., 176°W. Andreanof Islands,
	E	M		58	-	18	21		Aleutian Islands. Mag 6½-6¾(Pas)
	N	M		58	-	18	18		U.S.C.G.S.
	N	M	04	01	-	19	27		
	Z	M		01	-	19	21		
		F	-	-	-				obscured by aftershock.
10	ZV	iP	03	20	55				Aleutian Island aftershock.
10	ZV	iP	03	39	51				Compression. Aleutian Islands aftershock.
10	ZV,Z	iP	11	32	43			8670	Compression. Confused by microseisms.
	ZV	i		33	25				
	E	eS		42	34				Mag = 6.3
	N	e		42	40				
	N	e		43	01				52°N., 171°W. Fox Islands,
	E	eL		57	-				Aleutian Islands. U.S.C.G.S.
	Z	M	12	12	-	18	9		
	N	M		12	-	18	10		
	E	M		13	-	18	5		
		F	-	-	-				
10	ZV,Z	iP	12	48	07				Confused by microseisms.
	N	eL	13	12	-				Mag = 6.1
	E	M		27	-	18	3		51°N., 171°W. Fox Islands,
	N	M		28	-	18	5		Aleutian Islands. U.S.C.G.S.
		F	-	-	-				
10	ZV	eP	12	57	35				Confused by microseisms.
	ZV	e		57	50				Mag = 5.9
	ZV	e		58	30				
	E	M	13	38	-	18	2		51°N., 177°W. Andreanof Islands,
	N	M		38	-	18	3		Aleutian Islands. U.S.C.G.S.
		F	-	-	-				
10	ZV,Z	eP	13	22	13			8560	Confused by microseisms.
	E	eS		31	58				Mag = 6.2
	E	M	14	02	-	19	5		
	N	M		02	-	19	6		51½°N. 180°W. Andreanof Islands, U.S.C.G.S.
		F	-	-	-				
10	ZV	eP	13	40	31				Confused by microseisms.
	E	M	14	22	-	18	5		Mag = 6.2
	N	M		23	-	18	6		51½°N., 179°W. Andreanof Islands.
	Z	M		23	-	18	6		U.S.C.G.S.
10	ZV,Z	eP	15	38	18	12	4(PZ)	8780	Confused by microseisms.
	ZV	e		38	30	~~12~~	~~2(PH)~~		
	E	eS		48	13	~~18~~	~~5(SH)~~		Mag = 6.4
	N	iScS		48	45				
	N	iPS		48	59				52°N., 173°W. Andreanof Islands.
	NE	eL		57	-				Aleutian Islands. Mag 6¾(Berk)
	E	M	16	19	-	18	14		U.S.C.G.S.
	N	M		19	-	18	16		
	Z	M		19	-	18	15		
		F	17	40	-				
10	N	eL	17	49	-				Mag = 6.0
	N	M		59	-	18	4		
	E	M	18	00	-	18	3		Aleutian Islands aftershock.
		F		45	-				

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DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	ZV	eP	19	30	32				Andreanof Islands aftershock.
10	N	e	20	13	-				Very small. Aleutian Islands aftershock.
		F		45	-				
10	ZV	eP	21	08	46				Aleutian Islands aftershock.
10	ZV	eP	23	48	43				" " "
11	ZV	eP	00	08	38				Fox Islands aftershock.
	N	M		46	-				
11	N	e	00	57	-				Very small. Fox Islands aftershock.
		F	01	25	-				
11	ZV,Z	eP	03	24	43			8740	
	ZV,Z	iP		24	54	16	7 (PZ)		
	Z	i		25	11	~~16~~	~~4 (PH)~~		Mag = 6.7
	ZN	i		25	58				
	N	iS		34	36	~~20~~	~~11 (SH)~~		
	N	iScS		35	04				
	E	iPS		35	17				
	NE	iPPS		35	37				
	N	iSS		39	40				51°N., 177°W. Andreanof Islands.
	N	iSSS		43	40				Aleutian Islands. Mag 6¾-7(Pas)
	N	eL2		57	-				U.S.C.G.S.
	E	M	04	02	-	21	50		
	N	M		02	-	21	51		
	E	M		06	-	20	30		
	N	M		06	-	20	57		
	Z	M		10	-	18	36		
		F	06	30	-				
11	ZV	eP	07	03	51				Fox Islands aftershock.
11	N	e	07	28	-				Very small. Fox Islands aftershock.
		F		35	-				
11	ZV	e(P)	09	35	51			(2300)	
	NE	e(S)		39	36				
	NE	eL		42	-				
	E	M		43	-	12	3		
	N	M		43	-	12	5		
	NZ	e		44	38				
		F		50	-				
11	ZV,Z	iP	10	10	34	9	11 (PZ)	(8500)	Mag = 7.0
	ZV,Z	i		10	49	~~15~~	~~12 (PH)~~		
	ZN	iPP		13	27				
	N	eSS		25	14				S phase lost due to break in
	N	i		25	59				recording.
	N	e		29	26				
	NE	eL		31	-				53°N., 164½°W. Fox Islands.
	E	M		49	-	19	67		Aleutian Islands. Mag 6¾-7(Pas)
	N	M		50	-	18	85		U.S.C.G.S.
	Z	M		50	-	17	52		
		F	14	05	-				
11	N	eL	13	50	-				
	N	M		52	-	12	4		
		F	-	-	-				
11	ZV,ZN	iP	15	07	18	9	11 (PZ)	8690	Mag = 7.0
	Z	i		07	34	~~45~~	~~9 (PH)~~		
	Z	i		07	54				
	NE	iS		17	09				
	NE	e		17	19				
	N	iPPS		18	06	22	41		
	N	eSS		22	13				
	N	i		22	50				51½°N., 178½°W. Andreanof Islands.
	N	iSSS		26	08				Aleutian Islands. Mag 6¾(Pas)
	E	eL		28	-				U.S.C.G.S.

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contd.									
11	N	i(SKKS)	15	33	06				
	N	M		42½	-	20	51		
	E	M		44½	-	20	42		
	Z	M		52½	-	17	28		
		F	-	-	-				
11	ZV,Z	eP	15	47	53				Mag = 6.5
	E	M	16	24	-	18	14		51½°N., 178°W. Andreanof Islands.
	N	M		27½	-	18	15		Aleutian Islands. Mag 6½(Pas)
		F	-	-	-				U.S.C.G.S.
12	ZV	eP	01	14	30				Very small.
	N	M		55	-				52°N., 174½°W. Andreanof Islands.
		F	02	15	-				Aleutian Islands. U.S.C.G.S.
12	NE	e	05	53	-				Very small. Fox Islands.
		F	06	10					Aleutian Islands. U.S.C.G.S.
12	ZN	eP	07	40	41	12	3 (PZ)	8690	Mag = 6.5
	E	eS		50	32	~~14~~	~~3 (PH)~~		
	N	eSKS		50	48				
	N	eSS		55	50				51½°N., 173½°W. Andreanof Islands,
	N	eSSS		59	33				Aleutian Islands. Mag 6¼-6½(Pas)
	N	eL	08	06	-				U.S.C.G.S.
	N	M		16	-	20	19		
	E	M		22½	-	18	18		
	Z	M		24	-	19	13		
		F	-	-	-				
12	ZV,Z	iP	07	51	15				52°N., 178°W. Andreanof Islands.
	ZV,Z	e		52	32				Mag 6¼-6½(Pas) U.S.C.G.S.
~~12~~	~~ZV~~	~~eP~~	~~08~~	~~15~~	~~12~~				Andreanof Islands aftershock.
12	Z	iP	11	56	56			8740	Mag = 7.0
	Z	i		57	03				
	ZN	i		57	16				
	ZN	e		57	26				
	NE	iS	12	06	49				
	N	iScS		07	14				51°N., 177°W. Andreanof Islands.
	NZ	iPPS		07	42				Aleutian Islands. Mag 7-7¼(Pas).
	N	e		11	26				U.S.C.G.S.
	N	iSS		12	10				
	N	eSSS		14	56				
	E	eLQ		18.0	-				
	E	M		30½	-	24	88		
	N	M		33	-	24	106		
	Z	M		40	-	16	48		
		F	-	-	-				
12	Z	iP	12	58	08				Fox Islands. U.S.C.G.S.
12	Z	ePKP	19	30	08				16°S., 176½°W. Fiji Islands.
									h about 400 km. U.S.C.G.S.
12	Z	eP	21	35	32			(9300)	Very small. 2½°S., 80°W. Near
	E	e(SKS)		45	44				coast of Ecuador. U.S.C.G.S.
		F	22	15	-				
13	N	e	00	30	-				Very small. Andreanof Islands.
		F	01	10	-				U.S.C.G.S.
13	N	e(S)	03	10	00				Mag = 6.1
	E	eL		22	-				
	Z	M		40	-	16	3		52°N., 171½°W. Andreanof Islands.
	N	M		41	-	18	4		U.S.C.G.S.
	E	M		42	-	16	4		
		F	04	35	-				

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13	N	e	09	47	-				Small.
	N	M	10	00	-				52½°N., 170°W. Fox Islands.
		F		15	-				U.S.C.G.S.
13	ZV,Z	iP	15	54	03			8640	Mag = 6.6
	ZV,Z	i		54	11				
	ZV,Z	i		54	53				
	Z	ePP		57	00				
	N	iS	16	03	52				
	N	eSKS		04	12				51½°N., 179°W. Andreanof Islands.
	E	i		04	20				Aleutian Islands. Mag 6¾(Pas).
	N	eL		18	-				U.S.C.G.S.
	E	M		30	-	23	19		
	N	M		30	-	23	23		
	Z	M		35	-	17	14		
		F	18	55	-				
13	ZV,Z	iP	20	11	04				Mag = 6.1
	N	M		46½	-	20	5		
	E	M		47	-	20	3		54°N., 166°W. Fox Islands.
	Z	M		47	-	20	4		Aleutian Islands. U.S.C.G.S.
		F	21	35	-				
14	N	e	00	37	-				Very small.
	N	M		40	-				
		F	01	00	-				
14	NE	e	02	33	-				Very small.
	NE	M		43	-				52½°N., 169°W. Fox Islands.
		F	03	10	-				U.S.C.G.S.
14	ZV,Z	iP	02	58	49				Very small. 53½°N., 163½°W.
	N	M	03	39	-				Off south coast of Unimak Island.
		F		55	-				U.S.C.G.S.
14	ZV,Z	eP	14	59	38			8620	Multiple shock.
	ZV,Z	i(P)		59	44				Compression.
	ZV,ZN	i(P)	15	00	08	10	11 (PZ)		
	ZV,ZN	i(P)		00	29	~~14~~	~~8 (PH)~~		Mag = 7.0
	ZV,ZN	i(P)		00	47				
	ZV,ZN	iPP		02	34				
	N	e		09	19				
	N	iS		09	26	16	28		
	NE	i(S)		09	53				
	N	i(S)		10	23				51½°N., 177°W. Andreanof Islands,
	E	iLQ		20	50				Aleutian Islands. Mag 7½(Pas),
	E	M		45	-	17	86		7¼-7½(Berk) U.S.C.G.S.
	N	M		45	-	18	83		
	N	M		50½	-	17	89		
	Z	M		50½	-	16	38		
		F	19	10	-				
14	NE	e	22	58	-				Very small. 51½°N., 176°W.
		F	23	20	-				Andreanof Islands. U.S.C.G.S.
15	ZV,ZN	iP	03	03	56			8550	Compression.
	NE	eS		13	41				
	N	e		14	08				Mag = 6.4
	N	eSS		18	32				
	N	eSSS		22	44				53°N., 167°W. Fox Islands.
	E	eL		25	-				Aleutian Islands. Mag 6¾(Pas),
	Z	M		41	-	15	9		6½(Berk) U.S.C.G.S.
	E	M		43	-	17	15		
	N	M		43	-	19	14		
		F	06	00	-				

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
16	ZV	iP	00	51	31			4800	Mag = 5.6
	N	e(S)		57	55				35°N., 53°E. Northern Iran.
	N	eL	01	07	-				U.S.C.G.S.
	N	M		11½	-	22	2		
		F		25	-				
16	ZV,Z	iP	02	46	09			8660	Mag = 6.9
	ZV,ZN	i(P)		46	14				
	ZV,ZN	i(P)		46	20	13	9 (PZ)		
	ZV,Z	i		46	39	18	12 (PH)		
	ZV,Z	i		46	53				52°N., 179°W. Andreanof Islands,
	ZV,Z	iPP		49	13				Aleutian Islands. Mag 6¾(Pas),
	E	iS		56	09	28	38 (SH)		7 (Berk) U.S.C.G.S.
	N	iSKS		56	22				
	NZ	iPS		56	43				
	N	iPPS		56	59	23	55		Large amplitude.
	N	iSS	03	01	06				
	E	eLQ		07	-				
	E	M		26	-	19	46		
	N	M		26	-	19	75		
	E	M		33	-	17	49		
	N	M		33	-	17	74		
	Z	M		33	-	17	40		
		F	06	00	-				
17	NE	eL	00	45	-				Small.
		F	01	10	-				
17	ZV,Z	eP	08	05	49			8600	Mag = 6.0
	E	e(S)		15	36				
	E	M		49	-	17	3		51°N., 179°W. Andreanof Islands.
	N	M		49	-	17	3		U.S.C.G.S.
		F	09	30	-				
17	ZV,Z	eP	16	29	05				Confused by microseisms.
	ZV,Z	i		29	09				
	E	eL		48	-				52½°N., 166°W. Fox Islands,
		F	17	20	-				Aleutian Islands. U.S.C.G.S.
17	ZV,Z	iP	22	56	27	6	3(PZ)	8540	Compression.
	ZV,Z	i		56	38				
	NE	eS	23	06	11				Mag = 6.5
	N	eSS		11.2	-				
	E	eLQ		17	-				54°N., 166°W. Fox Islands,
	N	M		34	-	18	12		Aleutian Islands. Mag 6½(Pas)
	E	M		36	-	18	11		U.S.C.G.S.
	Z	M		36	-	16	7		
		F	25	50	-				
18	ZV,Z	eP	02	37	16				Mag = 6.0
	E	eL		58	-				52½°N., 171°W. Fox Islands,
	N	M	03	13	-	20	3		Aleutian Islands. U.S.C.G.S.
		F	04	00	-				
18	NE	e	05	50	-				
	N	M	06	05	-	20	2		51½°N., 179°W. Andreanof Islands.
		F		40	-				U.S.C.G.S.
18	N	e(PKS)	21	36	50				Mag = 6¼
	NE	eL	22	17	-				6°S., 152°E. New Britain.
	N	M		29	-	24	4		U.S.C.G.S.
		F		50	-				
18	ZV,Z	eP	23	22	38				Small.
	ZV,Z	e		22	43				
	NE	M		34	-				
		F		45	-				

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SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	ZV,Z	eP	11	40	54			8690	Mag = 5.9
	NE	eS		50	45				
	N	eSS		56.0	-				51½°N., 176½°W. Andreanof Islands.
	N	eL	12	03	-				Aleutian Islands. U.S.C.G.S.
	E	M		21	-	20	2		
		F		55	-				
19	ZV,Z	eP	13	02	54			8620	
	ZV,Z	iP		02	58	6	3(PZ)		Mag = 6.6
	ZV,Z	e		03	19				
	Z	i		03	38				
	Z	iPP		05	55				
	NZ	e		12	34				
	NE	iS		12	46	~~16~~	~~8(SH)~~		
	N	iScS		13	13				51½°N., 175°W. Andreanof Islands,
	N	iPS		13	35				Aleutian Islands. Mag 6¾(Pas)
	N	eSS		18.0	-				U.S.C.G.S.
	N	i		21	24				
	E	eLQ		23	-				
	E	M		35½	-	26	29		
	N	M		35½	-	24	31		
	E	M		42	-	19	26		
	N	M		42	-	20	16		
	Z	M		48	-	16	14		
		F	15	55	-				
19	NE	e	16	37	-				Small. Aleutian Islands aftershock.
		F	17	00	-				
19	N	e	17	50	-				Very small. 52½°N., 171°W.
		F	18	05	-				Fox Islands. U.S.C.G.S.
20	ZV	eP	00	34	14				Small. 53°N., 169°W. Fox Islands,
	N	M	01	19	-				Aleutian Islands. U.S.C.G.S.
		F		40	-				
21	NE	eL	09	25	-				
	E	M		30	-	18	3		14½°N., 93°W. Near coast of
		F		55	-				Chiappas, Mexico. U.S.C.G.S.
21	NE	eL	17	34	-				
	E	M		48	-	23	4		
	N	M		48	-	23	4		
		F	18	15	-				
21	NE	e	18	25	-				Small.
		F		45	-				
22	NE	eL	11	18	-				
	E	M		20½	-	16	4		
	N	M		20½	-	16	2		
		F		35	-				
22	ZV, ZN	iP	14	32	47	8	10(PZ)	8260	Compression.
	ZN	iPP		35	37	~~18~~	~~10(PH)~~		
	NE	iS		42	18	~~20~~	~~22(SH)~~		Mag = 6.9
	ZNE	iSKS		42	39				
	N	iPS		42	55				Ee
	NE	ePPS		43	12				
	ZNE	i		43	36				
	N	iSS		46	58				54°N., 166°W. Fox Islands.
	N	iSSS		50	16				Aleutian Islands. Mag 7(Pas), (Berk).
	E	eLQ		53.0	-				U.S.C.G.S.
	ZNE	eL2		59.8	-				
	E	M	15	01	-	27	84		
	N	M		05	-	23	62		
	E	M		09	-	20	51		
	N	M		10	-	20	46		
	Z	M		16	-	19	36		
		F	18	20	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
22	ZV,Z	eP	19	56	20				Very small.
	NE	e	20	23	-				37.9°N., 122.6°W. Northern
		F		45	-				California.Mag.5¼-5½(Pas).USCGS.
23	ZV,Z	ePKP	05	32	03			12200	Depth about 60 Km.
	ZV,Z	ePP		32	43				
	ZV,Z	e		33	47				Mag = 6.5
	E	eSKKS		39	23				
	N	eS		40	13				
	E	esS		40	41				
	E	ePS		42	24				
	N	esPS		42	48				
	N	eSS		48	10				
	EN	isSS		48	48				
	N	iSSS		52	12				
	N	e		52	48				
	N	eL	06	00	-				
	N	M		24	-	23	9		
	Z	M		24	-	20	5		
	E	M		28	-	20	9		
		F	07	40	-				
24	NE	e	02	16	-				Very small.
	NE	M		22	-				
		F		30	-				
24	NE	eL	08	00	-				
	N	M		17	-	18	3		
		F		35	-				
24	ZV,Z	eP	08	33	35			7900	Mag = 6.3
	NE	eS		42	48				
	N	eSS		43.3	-				
	NE	eL		54	-				51°N., 130°W. Near north coast of
	E	M	09	02½	-	18	8		Vancouver Island. Mag 6¾-7(Pas),
	N	M		03½	-	18	8		6-6¼(Berk). U.S.C.G.S.
	Z	M		03½	-	18	6		
		F		35	-				
24	NE	eL	11	44	-				
	E	M	12	01	-	17	4		
	N	M		02	-	18	4		
		F	-	-	-				overlapped by next shock.
24	E	M	12	24	-	18	3		
	N	M		24	-	19	5		
		F		55	-				
25	ZV	iP	00	51	15				Very small.
	N	eL	01	23	-				
		F		40	-				
25	ZV	e(Lg)	06	49	12				Ho = 06h. 46m. 13s.
	ZV	e "		49	29				46°03'N., 3°27'E.
	ZV,ZN	e "		49	34				Southern France. B.C.I.S.
		F		51.0	-				
25	NE	e	14	55	-				Very small.
		F	15	10	-				
25	N	e	19	40	-				Very small.
		F		50	-				
25	N	eL	22	04	-				
	E	M		09	-	18	3		
	N	M		11	-	18	2		
		F		55	-				
26	NE	e	03	45	-				
	E	M	04	01	-	18	2		
	N	M		02	-	18	2		
		F		20	-				

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SEISMOLOGICAL BULLETIN.

MARCH, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	N	eL	23	24½	-				Very small.
		F		30	-				
28	N	e	20	30	-				
	N	M		59½	-	18	3		
	E	M	21	00	-	18	2		
		F		50	-				
28	ZV,Z	eP	22	30	41			2250	Mag = 5½
	ZV,Z	i		30	45				
	NE	eS		34	26				Ho = 22h. 26m. 00s.
	NE	eL		37	-				39½°N., 23¾°E. Region of Volos,
	N	M		38½	-	11	4		Greece. B.C.I.S.
	E	M		39½	-	12	4		
	Z	M		39	-	10	4		
		F		55	-				
29	ZV,Z	iP	05	22	13	9	4 (PZ)	8340	Compression.
	ZV,Z	i		22	24	~~18~~	~~5 (PH)~~		
	ZV,Z	i		22	48				
	Z	iPP		25	04	9	3 (PPZ)		Mag = 6.5
	N	iS		31	47	~~18~~	~~5 (SH)~~		Ee
	N	iSKS		32	07				Ee
	N	iScS		32	20				
	NE	iPPS		32	44				
	N	eSS		36.6	-				
	E	eL		43	-				
	E	M		50	-	27	38		
	N	M		53	-	24	37		
	Z	M	06	02	-	16	12		
	N	M		02½	-	20	27		
	E	M		04½	-	19	21		
		F	08	25	-				
29	Z	eP	23	01	40			8700	Mag = 6.1
	NE	eS		11	32				
	E	e		12	12				
	NE	eL		31	-				
	N	M		39	-	19	4		
	E	M		42	-	20	3		
		F	24	20	-				
30	NE	e	09	55	-				Very small.
		F	10	20	-				
31	NE	e	10	50	-				Very small.
		F	11	15	-				

All the magnitudes are the "unified magnitudes" denoted by "m".

FORM 3718.

DS55368/1/569 140 4/57 CL

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL, 1957

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: (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	11	47	32			8690	51°N., 173°W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.
	N	eS		57	23				
	N	eL	12	13	–				
	E	M		30	–	18	2		
		F		45	–				
2	ZV,Z	iP	00	51	43			8670	51°N., 173°W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.
	ZV,Z	e		51	55				
	E	eS	01	01	33				
	NE	eL		17	–				
	N	M		32	–	18	1		
	E	M		34	–	19	2		
		F	02	05	–				
2	N	eL	05	07	–				
	N	M		09	–	14	1		
		F		13	–				
2	ZV,Z	eP	20	28	57				51½°N., 173°W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.
	NE	eL		54	–				
	N	M	21	09	–	18	1		
	E	M		11	–	18	2		
		F		35	–				
2	ZV,Z	eP	21	39	56			8690	51°N., 173°W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.
	ZV,Z	e		40	08				
	N	eS		49	47				
	N	eL	22	06	–				
	N	M		20	–	18	1		
	E	M		22	–	18	2		
		F		45	–				

COL

Form 3717.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957.

International Seismological Centre

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	ZV,Z	iP	00	24	01			7820	Confused by microseisms.
	ZV	epP		24	43				Depth about 170 Km.
	E	eS		32	59				58°N., 155½°W. Near coast of
	N	eL		47	-				Alaska Peninsula. U.S.C.G.S.
		F	01	00	-				
4	ZV	iP	07	04	22				Dilatation. Confused by
	ZV	e		04	43				microseisms.
	E	M		42	-				48°N., 155°W. Northern Kurile
		F		55	-				Islands. U.S.C.G.S.
4	N	eL	12	04	-				
	N	M		07	-	14	3		36°N., 70°E. Hindu Kush.
		F		20	-				Mag = 5¾ U.S.C.G.S.
5	N	eS	03	11	11				
	NE	eL		26	-				
	Z	M		41½	-	18	4		52°N., 172½°W. Fox Islands.
	N	M		42½	-	18	7		Aleutian Islands. Mag.6½(Pas).
	E	M		42½	-	17	6		U.S.C.G.S.
		F	04	30	-				Mag. = 6.2
5	ZV,Z	ePKP	07	50	33			16900	Depth = 80 Km.
	ZV	epPKP		50	55				
	ZV,Z	e		51	26				26½°S., 177°W. Kermadec Islands
	N	eSS	08	13	42				region. h about 100 Km.
	N	esSS		14	24				Mag. 6¾(Pas). U.S.C.G.S.
	N	M		53	-	24	3		
		F	09	35	-				Mag. = 6¾.
5	ZV,Z	eP	16	24	35				Small.
	NE	eL		49	-				12½°N., 88°W. Near coast of
		F	17	10	-				Nicaragua. h about 100 Km.USCGS.
6	NE	e	00	03	-				Very small.
		F		20	-				
7	NE	e	10	40	-				
	NE	eL	11	07	-				1°S., 137½°E. Near north coast of
	E	M		30	-	19	5		New Guinea. Mag.6-6¼(Pas).USCGS.
	N	M		32	-	18	6		
	Z	M		32	-	16	5		Mag = 6.4
		F	12	10	-				
8	Z	eP	20	30	22			(8700)	
	E	e(S)		40	13				
	N	eL		53	-				8½°N., 83°W. Panama-Costa Rica
	EZ	eL		56	-				border. Mag. 6½(Pas). USCGS.
	E	M		59	-	21	5		
	N	M		59	-	21	3		
		F	21	40	-				Mag. = 6.1

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

International Seismological Centre

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
9	Z	eP	00	36	56			10130	Depth = 460 Km.
	Z,ZV	iP		36	58	5	2(Z)		Dilatation.
	Z,ZV	ipP		38	44				Dilatation.
	Z,ZV	esP		39	25				
	Z	e		40	37				
	Z,ZV	iPP		40	40	6	2.3(Z)		Compression.
	N	iSKS		46	44				Ee
	N	iS		47	09	13	6 (SH)		Ee 30½°N., 138½°E. Off south
	N	e		48	07				coast of Honshu, Japan.
	ZE	iSP		48	25				Ne h about 450 Km.
	NE	isS		50	12				Mag. 6¾(Pas). U.S.C.G.S.
	NE	eSS		53	27				
		F	01	45	-				Mag. = 6.3
9	Z	eP	11	14	16	5	1		51½°N., 178½°W. Andreanof Island.
	Z	ePP		17	00				Aleutian Islands. U.S.C.G.S.
	E	M		57	-	18	2		
	N	M		57	-	19	3		
		F	12	20	-				Mag. = 6.1
9	NE	e	20	50	-				Small. 52½°N., 169°W. Fox Islands.
		F	21	45	-				Aleutian Islands. U.S.C.G.S.
10	ZV,Z	eP'	03	37	05				
	NE	eL	04	03	-				53°N., 168°W. Fox Islands,
	N	M		15	-	18	1		Aleutian Islands. U.S.C.G.S.
		F		40	-				
10	ZV,Z	iP	05	24	33	6	3 (PZ)	9500	
	ZV,Z	i		24	47				
	Z	ePP		27	47				
	ZE	iSKS		34	53				
	ZE	ePS		35	40				15½°N., 98°W. Near coast of Oaxaca,
	NE	eSS		40	23				Mexico. Mag. 6¾-7(Pas).6½(Berk).
	N	eLQ		47	-				U.S.C.G.S.
	NZ	elR		51	-				
	N	M		59	-	22	4		
	E	M	06	02½	-	19	6		
	Z	M		02½	-	19	3		Mag. = 6.5
		F		40	-				
10	E	eL	07	58½	-				
	E	M		59	-	14	1		
		F	08	02	-				
10	N	eS	09	31	17				
	NE	e		31	32				51°N., 177°W. Andreanof Islands,
	NE	eL		43	-				Eleutian Islands. U.S.C.G.S.
	E	M	10	03	-	18	2		
	N	M		03	-	18	1		
		F		30	-				
10	ZV,ZN	iP	11	41	17	9	10(PZ)	8000	Compression.
	ZV,Z	i		41	20				
	ZN	ePP		43	49				
	Z	ePPP		45	40				
	NE	iS		50	35	16	27(SH)		56°N., 154°W. Kodiak Island
	N	iPS		51	05				region. Mag. 7(Pas). U.S.C.G.S.
	E	iPPS		51	18				
	N	iSS		55	05				

FORM 8718.

contd.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
10	E	eL_Q	11	59	-				
	NZ	eL_R	12	03	-				
	E	M		06	-	27	87		
	N	M		10	-	23	91		
	E	M		16	-	19	72		
	N	M		17	-	18	81		Mag. = 7.0
	Z	M		17	-	17	45		
		F	16	15	-				
11	N	eL	02	26	-				Very small.
		F		50	-				
11	NE	e	18	25	-				Very small. 52°N., 168½°W.
		F		50	-				Fox Island. U.S.C.G.S.
12	NE	e	16	26	-				Very small.
		F	17	05	-				
13	NE	e	04	04	43				48½°N., 128°W. Off coast of
	E	M		23	-	20	2		Vancouver Island. British
	N	M		23	-	20	3		Columbia. U.S.C.G.S.
		F		50	-				Mag. = 5.9
13	NE	e	05	55	-				Very small. 52½°N., 168½°W.
		F	06	20	-				Fox Island. Aleutian Islands.
									U.S.C.G.S.
14	Z,ZV	iP	07	22	27	4	3	7110	Dilatation.
	Z,ZV	e(PcP)		23	05				
	NE	eS		30	59	~~12~~	~~6(SH)~~		
	ZE	ePS		31	17				
	E	eScS		32	17				31°N., 84½°E. Southern Tibet.
	N	e		32	24				Mag. 6¼(Pas). U.S.C.G.S.
	N	eSS		35	15				
	N	eL_Q		38	-				
	NE	eL_R		43½	-				
	NE	eL_2		47½	-				
	E	M		48½	-	20	40		
	M	M		48½	-	20	110		
	Z	M		54	-	14	11		Mag. = 6.6
		F	09	10	-				
14	ZV	eP	16	47	25				
	N	eL	17	09	-				
	E	M		13	-	19	2		
	N	M		13	-	19	4		
		F		25	-				
14	ZV,ZN	ePKP	19	37	33			15950	
	ZV,Z	i		37	39				
	ZN	i		37	45				
	ZV,Z	i		37	57				
	Z	iPP		40	46				15½°S., 173°W. Samoa Islands.
	ZN	iPKS		40	59				Mag. 8(Pas). 7½-7¾(Berk).U.S.C.G.S.
	ZN	i		41	15				
	N	i		41	55				
	Z	iPPP		43	54				
	N	iSKKS		47	35				via antipodes.
	Z	iPPP		52	07				
	N	iPPS		53	17				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
14	NE	eSKKS	19	53	43				
	NE	iSS		59	25				
	N	eSSS	20	04	29				
	E	eL		18	-				
	N	eL_R		26	-				
	Z	M		38	-	20	87		
	N	M		38	-	20	159		
	E	M		39	-	20	81		Mag. = 7.3
		F	24	10	-				
14	ZV,Z	iP	21	11	05				Dilatation. 50½°N., 179°W.
	ZV	e		11	13				Andreanof Islands. U.S.C.G.S.
		F	-	-	-				
15	N	e	03	25	-				Very small.
		F		32	-				
15	ZV,Z	eP	10	50	35				
	N	eL	11	15	-				51½°N., 179°W. Andreanof Islands,
	N	M		30	-	20	3		Aleutian Islands. U.S.C.G.S.
		F	12	05	-				
15	ZV,Z	eP	21	44	56			8580	
	ZV,Z	i		45	11				
	Z	ePP		47	51				
	NE	eS		54	42	9	3 (SH)		52½°N., 167°W. Fox Islands,
	E	eScS		55	17				Aleutian Islands. U.S.C.G.S.
	NE	eL	22	11	-				
	N	M		23	-	19	2		
		F	23	00	-				Mag. = 6¼
16	ZV,Z	iP	04	17	11	6	3	11640	Dilatation. Depth = 590 Km.
	ZV,Z	epP		19	19				
	ZV,Z	esP		20	25				
	ZV,Z	i(PKP)		21	34				
	ZV,Z	iPP		21	41	6	6.4(PZ)		Compression.
	Z	epPP		23	30	7	4.0(PEH)		
	Z	iPPP		23	58				
	E	iSKS		26	54	8	12		
	N	iS		28	10				Ee
	ZN	ePS		30	52				
	E	isSKS		31	00				4½°S., 107½°E. Western Java Sea.
	NE	esPS		33	30				h about 600 Km. Mag. 7½(Pas).
	NE	eSS		35	36				U.S.C.G.S.
	N	esSS		38	53				
	N	eSSS		39	50				
		F	06	15	-				Mag. = 7.2
17	NE	eL	02	29	-				Very small. 44°N., 12°E. Italy.
		F		32	-				B.C.I.S.
17	ZV,Z	iPKP	08	27	29				Depth about 180 Km.
	ZV,Z	epPKP		28	16				20°S., 176°W. Tonga Islands.
	N	e(sPKS)		32	32				U.S.C.G.S.
17	NE	eL	08	46	-				
	N	M		47½	-	16	1		44°N., 12°E. Italy. B.C.I.S.
		F		54	-				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
17	NE	eL	10	10	-				Small. Confused by microseisms.
		F		35	-				52½°N., 171°W. Fox Island. USCGS.
17	ZV,Z	eP	13	36	47				Confused by microseisms.
	NE	eL	14	03	-				52½°N., 169°W. Fox Island, Aleutian.
	N	M		15	-	20	2		U.S.C.G.S.
		F		40	-				
17	E	eL	18	50	-				Confused by microseisms.
	E	M		55	-				14½°N., 92°W. Mexico-Guatamala
		F	19	20	-	18	2		border. U.S.C.G.S.
19	N	e(S)	16	06	39				51½°N., 168½°W. Fox Islands. USCGS.
	N	eL		22	-				
	N	M		35	-	19	3		
		F	17	10	-				
19	ZN	iP	22	31	19	6	14(PZ)	8520	Dilatation.
	Z	i		31	34	~~7~~	~~5.5(PH)~~		Intermediate depth ?
	Z	i		31	49				
	Z	ePP		34	11				
	NE	iS		41	02	~~8~~	~~23(SH)~~		
	N	iSKS		41	17				52°N., 166½°W. Fox Island,
	NE	iScS		41	33				Aleutian Islands. Mag. 7-7¼(Pas).
	N	iPPS		42	03				U.S.C.G.S.
	N	iSS		46	06				
	E	eL_Q		52	-				
	NZ	eL_R		56	-				
	E	M	23	12	-	17	15		
	N	M		15	-	18	21		
	Z	M		15	-	18	21		
		F	25	45	-				Mag. = 7.2
20	NE	e	08	00	-				Small. 54½°S., 148½°E.
		F		50	-				South Pacific Ocean. U.S.C.G.S.
20	E	ePKS	12	53	13				
	N	ePPS	13	02	07				6°S., 147½°E. Near coast of New
	NE	eL		35	-				Guinea. U.S.C.G.S.
	N	M		45	-	24	11		
	N	M		49	-	20	7		
	E	M		50	-	19	5		
	Z	M		50	-	19	5		Mag. = 6½
		F	15	20	-				
21	ZV	eP	21	24	00	5	5(PZ)	8130	
	ZV,Z	iP		24	03	6	4(PH)		
	ZV,Z	i		24	10				
	ZV,Z	iPcP		24	16				7°N., 72°W. Colombia-Venezuala
	NE	eS		33	24	16	28(SH)		border. Mag. 6½-6¾(Pas). U.S.C.G.S.
	N	i		33	28				
	E	eScS		34	02				
	ZNE	iPPS		34	21				
	E	iSS		38	04				
	N	i		38	06				
	N	eL_Q		43½	-				
	E	eL		46	-				
	N	M		51	-	20	43		
	E	M		53	-	20	53		
	Z	M		53	-	20	44		
		F	24	10	-				Mag. = 7.0

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
22	ZV	eP	00	28	51				
	N	M		55	-	20	2		30½°N., 84½°E. Tibet. U.S.C.G.S.
		F	01	05	-				
√ 22	ZV	iP	01	52	52				
	ZV	i		52	55				30½°N., 84½°E. Tibet. U.S.C.G.S.
	N	M	02	18½	-	20	5		
	E	M		18½	-	20	2		
		F		28	-				Mag. = 6.0
22	N	e	06	05	-				Very small. 31°N., 91°E.
		F		10	-				Tibet. U.S.C.G.S.
23	E	eSKKS	22	23	16				
	NE	eL		48	-				27°S., 68°W. Northern Chile-
	E	M	23	00	-	18	2		Argentina border. U.S.C.G.S.
	N	M		00	-	18	1		
		F		30	-				
√ 24	ZV,Z	iP	19	15	37	6	3(PZ)	2780	Compression.
	ZV,Z	i		15	46				Multiple shock.
	ZV,Z	i		15	57				
	ZV,Z	i		16	05				
	ZV,ZNE	i		16	31				
	ZV,ZN	iP		16	43	10	27(PZ)		PH 11sec. 24 μ
	ZNE	iS		19	56				
	ZNE	i		20	27				Ho = 19h. 10m. 16s., 36.3°N.,
	ZNE	iS		20	45	~~16~~	~~97(SH)~~		29.1°E. B.C.I.S.
	N	i		21	31				Turkey foreshock. Mag.6¾-7 Pas.
	E	M		24½	-	27	195		U.S.C.G.S.
	N	M		25	-	22	232		
	E	M		25½	-	22	139		Mag.: first shock = 6¼
		F	21	35	-				greatest shock = 6.9
√ 25	ZV,ZNE	iP	02	31	05			2890	Compression,
	ZV,ZNE	ipP		31	23				Depth = 80 Km.
	ZV,ZNE	iPP		31	43				
	ZV,ZNE	iPPP		31	54				Ho = 02h. 25m. 44s.
	ZN	i		35	09				36.3°N., 29.1°E.
	ZNE	iS		35	28				Depth about 100 Km. B.C.I.S.
	ZNE	i		35	47				Near south coast of Turkey,
	Z	i(sS)		36	01				Mag. 7-7¼(Pas). 15 killed at
	N	M		40	-	24	>540		Fethiye, many injured and
	E	M		41	-	24	>220		extensive property damage.USCGS.
	Z	M		44	-	15	99		Mag. = 7¼
		F	06	00	-				
25	NE	e	07	45	-				Small.
		F		55	-				
25	NE	e	08	00	-				Small.
		F		30	-				
√ 26	ZV,	eP	06	39	18				
	ZV,	e		39	22				36.3°N., 29.1°E. B.C.I.S.
	ZV,Z	e		41	26				Turkey aftershock.
	NE	eL		44½	-				
	N	M		48	-	20	25		
	E	M		49	-	20	12		
	ZE	iScS		50	15				Mag. = 6.0
		F	07	25	-				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZV,Z	iP	15	20	35			8900	Compression.
	E	eS		30	37				45°N., 148°E. Kurile Islands.
		F	16	10	-				U.S.C.G.S.
28	Z	e(PP)	01	42	23				
	NE	eL	02	13	-				7°N., 127°E. Off coast of
	E	M		29	-	22	8		Mindanao. P.I. Mag. 5¾-6 (Pas)
	N	M		31½	-	18	7		(U.S.C.G.S.)
	Z	M		31½	-	18	3		
		F	03	10	-				Mag. = 6.4
28	ZV,Z	eP	15	00	44				
	E	M		40	-	18	2		52½°N., 168½°W. Fox Islands.
		F	16	15	-				U.S.C.G.S.
29	ZV,Z	eP	04	41	53				Very small.
	NE	M	05	20	-				52½°N., 168½°W. Fox Islands.
		F		40	-				U.S.C.G.S.
29	ZV	e(P)	09	34	51				
29	NE	e	21	54	-				Small.
		F	22	35	-				

All the magnitudes are the "unified magnitudes" denoted by "m".

FORM 3718.

DS 57400/1/R94 140 5/57 CL

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY, 1957

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: (i) 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 sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{Wl}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE.	Δ km.	REMARKS.
1	N	eL	01	13½	-				Small. 41½°N., 78½°E.
		F		20	-				Kirgiz-China border. U.S.C.G.S.
2	NE	eL	00	10	-				Very small. 52½°N., 171°W.
		F		27	-				Fox Islands. U.S.C.G.S.
2	N	e	02	57	-				Very small. 4½°S., 153°E.
		F	03	15	-				Near New Britain. U.S.C.G.S.
2	ZV,Z	iP	04	02	31			4000	Compression.
	ZV,Z	e		02	39				
	NE	eS		08	07				72°N., 67½°W. Baffin Bay
	N	eL		12	-				Mag. 6¼-6½(Pas). U.S.C. G.S.
	N	M		16	-	18	5		
	E	M		17	-	16	6		
		F	05	10	-				Mag. = 5.8
2	ZV,Z	ePKP	10	54	08			16600	
	ZV,Z	e		54	20				
	Z	e		56	11				
	Z	ePP		57	42				56½°S., 123°W. South Pacific
	N	eSKKS	11	04	32				Ocean. U.S.C.G.S.
	EZ	eL		48	-				
	E	M		52½	-	20	8		
	N	M		52½	-	20	8		Mag. = 6½
	Z	M		52½	-	20	7		
		F	-	-	-				overlapped by next shock.
2	ZV,Z	eP	11	41	03				52½°N., 169°W. Fox Islands.USCGS.
	ZV	e		41	15				
		F	-	-	-				overlapped by next shock.

Form 3717.

M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MAY, 1957

International Seismological Centre

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
2	ZV,Z	iP	11	50	44				Compression.
	ZV,Z	i		50	57				
	ZV,Z	e		51	24				52½°N., 169°W. Fox Islands.USCGS.
	ZV,Z	ePP		53	44				
	E	M	12	30	-	18	6		
	N	M		30	-	19	8		
		F	14	00	-				Mag. = 6¼
2	N	e	14	18	-				Very small. 51°N., 176½°W.
		F	15	00	-				Andreanof Islands. U.S.C.G.S.
2	ZV	iPKP	21	54	03				
	ZV	epPP		56	45				
	E	eSKS		59	58				7½°S., 120°E. Flores Sea.
	E	i	22	01	10				h about 600 Km. U.S.C.G.S.
	Z	eSP		03	48				
	N	eSS		10	21				
		F	23	00	-				
3	NE	e	07	57	-				Very small. 51°N., 179½°E.
		F	08	15	-				Andreanof Islands. U.S.C.G.S.
3	N	eL	15	40	-				12½°N., 125½°E. Near coast of
	N	M		49	-	18	2		Samar, Philippine Is. U.S.C.G.S.
		F	16	00	-				
4	NE	eL	10	59	-				
	E	M	11	20	-	20	3		3½°S. 137°E. Western New Guinea.
	N	M		20	-	20	4		U.S.C.G.S.
		F		40	-				Mag. = 6.3
4	NE	e	12	09	-				Very small. 52½°N., 166½°W.
		F		35	-				Fox Islands. U.S.C.G.S.
4	N	e	15	28	-				Very small. 37°N., 96½°E.
		F		40	-				Chinghai Province, China.USCGS.
6	N	e	01	34	-				Small.
		F		40	-				
6	N	e	02	10	-				Small.
		F		16	-				
6	N	e	15	20	-				Very small. Northern Iran.
		F		40	-				U.S.C.G.S.
7	NE	eL	06	24	-				Very small. 51½°N., 179½°E.
		F	07	00	-				Andreanof Islands.
8	N	e	10	40	-				Very small.
		F		50	-				
8	NE	eL	14	53	-				Small. 41½°N., 75°E. Kirghiz S.S.R.
		F		60	-				U.S.C.G.S.
8	N	e	21	17	-				Very small. 15½°S., 179°E.
		F	22	25	-				Fiji Islands. U.S.C.G.S.

FORM 3718.

M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

International Seismological Centre

SEISMOLOGICAL BULLETIN.

MAY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12	N	M	02	11	-	14	2		Small.
		F		14	-				
12	NE	eL	05	42	-				
	E	M		52	-	18	2		Sandwich Islands region. USCGS.
	N	M		52	-	18	3		
		F	06	30	-				
12	E	eL	07	27	-				
	E	M		29	-	24	3		53°N., 142°E. Northern Sakhalin.
		F		45	-				Mag. = 6 U.S.C.G.S.
12	N	eL	08	03	-				
	N	M		04	-	14	3		
		F		10	-				
12	E	eSKS	11	54	20				
	N	M	12	32	-	24	12		8½°S., 107½°E. Near south coast
	N	M		43	-	20	6		of Java. U.S.C.G.S.
	E	M		44	-	20	8		
		F	13	55	-				Mag. = 6½
13	N	e	04	46	-				Very small.
		F		54	-				
13	N	eL	06	45½	-				Small.
		F		50	-				
17	ZV	ePKP	03	01	37				18°S., 176½°W. Fiji Islands. U.S.C.G.S.
17	NE	eL	21	18	-				
	E	M		35	-	28	3		
	N	M		35	-	28	5		
		F	22	05	-				
18	ZV,Z	eP	05	36	04			8670	
	ZV	e		36	19				
	N	eS		45	54				51°N., 171°W. Fox Islands,
	NE	eSP		46	35				Aleutian Islands. U.S.C.G.S.
	N	eSS		51	39				
	N	eL	06	01	-				
	N	M		16	-	20	3		
	E	M		17	-	20	3		
		F	07	20	-				Mag. = 6.1
19	N	eL	03	31½	-				Very small.
		F		37	-				
19	NE	eL	21	36	-				
	E	M		47	-	18	2		25°N., 125½°E. Ryukyu Islands.
		F	22	15	-				U.S.C.G.S.
20	NE	e(S)	02	12	57				
	N	eSS		18.1	-				
	N	eL		33	-				51°N., 180°W. Andreanof Islands.
	N	M		44	-	17	3		Aleutian Islands. U.S.C.G.S.
	E	M		45	-	17	2		
	Z	M		46	-	14	2		
		F	03	45	-				Mag. = 6
20	ZV,Z	eP	20	01	24			2100	Deeper than normal ?
	Z	ePP		01	52				
	N	e(S)		04	50				38½°N., 14°E. Sicily foreshock.
	NE	eL		06	-				Felt. U.S.C.G.S.
	N	M		08	-	14	3		
	Z	e(ScS)		13	26				
		F		23	-				Mag. = 5½

FORM 8718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
21	ZV	e(pP)	01	26	10			10800	
	ZV,Z	ePP		29	48				
	ZV,Z	epPP		30	12				
	NE	iSKS		36	07				
	NE	iS		36	56	11	4(SH)		
	N	e		37	28				
	E	esS		37	44				21½°N., 144°E. Mariana Islands,
	ZNE	ePS		38	36				h about 100 Km. U.S.C.G.S.
	Z	e		39	06				
	N	iPSP		39	32				
	NE	eL	02	00	-				
	N	M		08	-	22	8		
	E	M		09	-	21	9		
	N	M		16	-	18	9		
	Z	M		16	-	18	4		
		F	03	15	-				Mag. = 7
21	ZV,Z	eP	11	47	57				Deeper than normal ?
	Z	ePP		48	26				38½°N., 14°E. Near north coast of
	N	eL		53	-				Sicily. Felt. U.S.C.G.S.
	N	M		54½	-	14	3		
		F	12	15	-				Mag. = 5½
21	N	e	12	26	-				36½°N., 141½°E. Near east coast
	N	M		32	-	19	2		of Honshu, Japan. U.S.C.G.S.
		F		50	-				
21	ZV,Z	iP	13	28	57			2670	Compression.
	NE	eS		32	39				
	ZE	ePcP		33	18				
	N	eL		34½	-				39¼°N., 23°E. Region of Volos,
	E	M		36	-	14	7		Greece. B.C.I.S.
	N	M		36	-	14	20		
	ZE	eScS		40	26				
		F	13	55	-				Mag. = 6
22	ZV,Z	eP	13	41	50			8900	
	ZV,Z	i		41	54				
	N	eS		51	51				
	N	eScS		52	12				50°N., 177°W. Andreanof Islands,
	N	eSS		57.1	-				Aleutian Islands.Mag.6½(Pas)(Berk)
	N	eSSS	14	00.5	-				U.S.C.G.S.
	N	eL		07	-				
	E	M		20	-	21	4		
	N	M		21	-	21	5		
		F	15	30	-				Mag. = 6¼
22	NE	e	22	33	-				Very small.
		F	23	00	-				
24	ZV,ZE	iP	02	49	47			8700	Compression.
	ZV,Z	e		50	01				
	ZV,Z	i		50	08				
	ZV,Z	i		50	14				
	ZV,Z	ePP		52	44				
	ZV,Z	ePPP		54	44				
	NE	iS		59	39	~~7~~	~~5(SH)~~		3°N., 76½°W. Colombia.Mag.6¾(Pas),
	E	iSKS		59	55				6½ (Berk). U.S.C.G.S.
	Z	i	03	00	37				
	N	eLQ		11	-				

FORM 3718.

contd.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
24	E	eLR	03	14	-				
	E	M		17	-	28	8		
	N	M		18	-	26	4		
		F		45	-				Mag. = 6½
24	N	eL	04	16	-				
	N	M		25	-	20	5		53°N., 167½°W. Fox Islands,
	E	M		27	-	18	3		Aleutian Islands. Mag.6-6¼
		F	05	15	-				(Berk). U.S.C.G.S.
									Mag. = 6
25	N	eL	16	25	-				
	N	M		30	-				
		F		40	-				
26	ZV,ZNE	iP	06	38	52	6	16	2700	Dilatation.
	ZV,ZNE	i		38	56				
	ZE	iPP		39	25	6	11		41°N., 31°E. Bolu Province,
	E	i(PcP)		42	27				Turkey. 53 killed, 70 injured,
	Z	i		42	39				and major property damage.
	NE	iS		43	06				Mag. 7(Pas),(Berk). U.S.C.G.S.
	N	i		43	17				
	N	M		50	-	19	>720		
	E	M		51	-	19	>320		Mag. = 7
	Z	M		51	-	14	>230		
		F	-	-	-				overlapped by next shock.
26	ZV,Z	eP	09	41	55			2730	
	ZV,Z	i		41	57				
	NE	eS		46	11				Turkey aftershock. Felt. U.S.C.G.S.
	N	eL		47½	-				
	E	M		52	-	20	38		
	N	M		52	-	20	77		
	Z	M		52½	-	11	12		Mag. = 6¼
		F	10	50	-				
27	ZV	eP	11	06	49				
	ZV	e		07	23				Galitzin's not recording.
	ZV	e		07	34				
28	N	eL	00	19½	-				
	N	M		24	-	21	7		
		F	01	00	-				
28	N	eL	01	32	-				
	N	M		38	-	20	3		
		F		55	-				
28	N	e	05	40	-				Small.
		F	06	00	-				
28	ZV,Z	eP	06	03	11			8020	
	ZV,Z	iPcP		03	30				Deeper than normal ?
	NE	eS		12	30				
	NE	ePPS		13	14				
	N	eL		30	-				
	N	M		34	-	20	5		
		F	07	20	-				Mag. = 6¼

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MAY, 1957.

Date	Compt.	Phase	G.M.T. h.	m.	s.	Period sec	Amplitude u	Δ km	Remarks
29	N	eL	10	29	-				
	E	M		33	-	18	2		
	N	M		34	-	16	2		
		F		55	-				
29	ZV,Z	eP	18	44	10			2410	Dilatation.
	ZV,Z	e		44	37				
	NE	eS		48	03				
	E	e		48	46				
	N	e		48	49				
		F		58	-				
29	N	e	21	43	-				Very small.
		F		50	-				
30	Z	ePKP	00	38	44				
	N	eL	01	38	-				
	E	M		46	-	20	2		
	N	M		46	-	20	2		
		F	03	05	-				
30	N	e	20	35	-				Very small.
		F	22	20	-				
31	ZV,Z	iPKP	02	28	58				
	ZN	e		36	48				
	E	e		38	39				
	NE	e		42	36				
	N	eL	03	48	-				
	N	M		59	-	20	3		
		F	05	10	-				
31	ZV,Z	eP	22	09	44			8740	
	N	iS		19	37				Ee
	N	eScS		20	00				
	N	eL		31	-				
	N	M		48	-	20	2		
		F	-	-	-				overlapped by next shock.
31	ZV,	eP	22	29	09				
	ZV	e		29	22				
	E	M	23	12	-	19	2		
	N	M		13	-	18	2		
		F	24	10	-				

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE, 1957.

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 : (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{wl}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	eP	05	32	08			2800	
	N	eS		36	30				
	N	eL		38	-				40½°N., 31°E. Northern Turkey aftershock. USCGS.
	E	M		42	-	18	3		
	N	M		42	-	18	4		
		F	06	15	-				Mag. = 5½
1	E	eL	20	17	-				Small.
	N	eL		22	-				1°N., 91°W. Galapagos Islands. USCGS.
		F		40	-				
1	ZV	eP	21	13	34			2750	
	NE	eS		17	52				
	N	eL		20	-				Northern Turkey aftershock. USCGS.
	N	M		23½	-	16	3		
		F		40	-				
1	N	eL	23	13	-				
	N	M		15½	-	21	4		
		F		50	-				
2	ZV,Z	eP	01	17	14			2800	
	N	eS		21	35				
	N	eL		24	-				Northern Turkey aftershock. USCGS.
	N	M		27	-	16	2		
		F		40					
2	N	eL	22	07	-				Very small. 52½° N., 160°E. Near Kamchatka. USCGS.
		F		35	-				

Form 3717.

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M.O. 627

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	ZV,Z	ePKP	17	23	48				17½°S., 178°W. Fiji Islands.
	Z	e		27	00				h about 550 Km. USCGS.
5	ZV,Z	iP	07	21	07			2380	
	N	eS		24	58	16	25		
	N	i		25	02				52½°N., 35°W. North Atlantic Ocean. USCGS.
	N	eL		26	-				
	N	M		28	-	16	11		
	E	M		28	-	16	7		
	Z	M		28	-	16	5		
		F	08	20	-				Mag. = 5¾
5	N	eL	14	40	-				Small. 53°N., 162½°E. Off coast of Kamchatka. USCGS.
		F	15	10	-				
5	N	eL	22	56	-				
	N	M	23	02½	-	20	2		
		F		35	-				
6	N	e	01	36	-				Very small.
		F		50	-				
6	N	e	04	15	-				Very small. 52°N., 178°W.
		F		30	-				Andreanof Islands. USCGS.
6	N	eL	20	43	-				
	N	M		56	-	23	5		3°N., 126½°E. Molucca Passage.
		F	21	25	-				Mag. = 6¼
7	ZV	eP	00	12	43				
	N	eL		32	-				44½°N., 81°E. Sinkiang Province,
	N	M		33	-	16	1		China. USCGS.
		F		45	-				
8	N	eL	04	33	-				
	N	M		39½	-	20	2		3°S., 147½°E. Bismark Sea.USCGS.
		F		55	-				
8	N	e	05	09	-				Very small.
		F		20	-				
8	N	eL	07	14	-				
	N	M		23	-	20	2		2½°S., 150°E. New Ireland.USCGS.
		F		35	-				
8	Z,ZV	ePKP	22	46	06				Very small.
	Z,ZV	e		46	11				19½°S., 168°E. Loyalty Islands.
	N	eL	23	51	-				USCGS.
		F	24	10	-				
10	ZV,Z	iPKP	01	18	41			12300	
	ZV,Z	ePP		19	29				
	ZV,Z	e		19	39				
	Z	ePKS		21	57				9°S., 117°E. Sumbawa Island.
	NE	eSKS		25	16				USCGS.
	NE	e		29	23				
	NE	ePPS		30	03				
	N	e		36	19				
	N	eL		55	-				
	E	M	02	06	-	22	4		
	N	M		08	-	22	8		Mag. = 6½
		F		50	-				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
V 10	ZV,Z	e(PP)	03	31	55				
	N	eL	04	10	-				13½°N., 143½°E. Mariana Islands.
	N	M		20½	-	20	2		Mag. 6¾-7(Pas). USCGS.
		F		40	-				
10	N	e	20	43	-				Very small.
		F		55	-				
11	N	eL	04	46	-				54°N., 165°W. Unimak Islands
	N	M		52	-	19	3		region. USCGS.
		F	05	10	-				
11	ZV,Z	eP	05	06	08				Small.
	N	eL		23	-				36½°N., 70°E. Hindu Kush.
		F		35	-				h about 200 Km. USCGS.
V 11	Z,ZV	iPKP	15	09	37			17300	Compression.
	Z,ZV	$ePKP_2$		10	13				
	Z	i		10	20				
	Z,ZV	ePP		13	50				
	NZ	eSKKS		19	54				30°S., 178°W. Kermadec Islands,
	Z	e		22	21				h about 100 Km. Mag. 6¾-7(Pas),
	N	eSKSP		23	59				6¾(Berk). USCGS.
	E	eSSS		40.4	-				
	N	eL	16	06	-				
	E	M		15	-	24	10		
	N	M		23	-	21	29		
	Z	M		23	-	20	7		Mag. = 6¾
		F	17	45	-				
V 11	Z,ZV	iP	19	02	44			10300	Dilatation.
	NE	iSKS		13	16				
	N	eS		13	44	18	8(SH)		
	ZE	iPS		15	00				18°N., 120½°E. Near coast of
	N	eSS		20	06				Luzon, Philippine Islands.
	NE	eL		35	-				Moderate property damage at
	E	M		46	-	22	29		Vigan. USCGS.
	N	M		47½	-	21	73		
	Z	M		49	-	17	15		
		F	21	30	-				Mag. = 6¾
12	Z	eP	00	05	53			8660	
	N	eSKS		15	59				
	N	eSS		21	28				52°N., 176°W. Andreanof Islands,
	N	eSSS		24	46				Aleutian Islands. USCGS.
	NE	eL		35	-				
	N	M		45½	-	19	6		
	E	M		47½	-	19	2		
		F	01	50	-				Mag. = 6.1
12	N	e	02	15	-				Very small. 52½°N., 175½°W.
		F	03	00	-				Andreanof Islands. USCGS.
12	ZV,Z	eP	08	40	57			9170	
	N	iS		51	10	7	2.5(SH)		Ee.
	N	i		51	23				41½°N., 142½°E. Near south coast
	N	eSS		56.5	-				of Hokkaido, Japan. USCGS.
	E	M	09	18	-	18	5		
	N	M		20	-	20	11		
	Z	M		22	-	18	3		
		F	10	05	-				Mag. = 6.4

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
12	ZV	e	12	06	03				
	ZV,Z	e		06	39				
		F		07	08				
12	ZV	e	16	47	03				
	ZV	e		47	31				
				48	00				
13	ZV,Z	iP	10	52	36			8670	Compression.
	NE	eS	11	02	26				
	NE	iSKS		02	43				
	N	iPPS		03	20				51½°N., 175°W. Andreanof Islands.
	N	eSS		07	57				Aleutian Islands. Mag. 7(Pas).
	N	eSSS		11	27				USCGS.
	N	eL		16	-				
	Z	M		33	-	20	33		
	N	M		33	-	20	105		
	E	M		34	-	20	40		Mag. = 6.9
		F	15	10	-				
14	Z	eP	06	36	14			8600	
	NE	eS		46	01				52°N., 175½°W. Andreanof Islands,
	N	M	07	20	-	17	5		Aleutian Islands. USCGS.
	E	M		21	-	17	2		
		F	08	20	-				Mag. = 6
14	N	eL	12	07	-				32°N., 67°E. Southern Afganistan.
	N	M		11	-	19	5		USCGS.
	E	M		12	-	16	1		
		F		30	-				Mag. = 5.9
15	N	ePS	01	10	58				
	N	eSS		16	22				34°S., 56°E. Indian Ocean.
	NE	eL		32	-				Mag. 6-6½(Pas). USCGS.
	N	M		46	-	17	10		
	E	M		46	-	17	3		
	Z	M		46	-	17	3		
		F	03	25	-				Mag. = 6.4
15	ZV	eP	18	30	10				
	N	eL	19	00	-				52°N., 171°W. Fox Islands.
	E	M		09	-	18	3		Mag. 6(Berk). USCGS.
	N	M		10	-	18	4		
		F	20	15	-				Mag. = 6
17	N	eL	07	25	-				15°S., 173½°W. Samoa Islands
	N	M		36½	-	20	3		region. Mag. 5¾. (Berk). USCGS
		F	07	50	-				
18	ZV,Z	iP	02	24	40	8	2	9250	Dilatation.
	ZV,Z	e		24	46				
	Z	ePP		27	51				
	N	eS		34	57				14½°N., 96°E. Gulf of Martaban,
	E	eScS		35	09				Burma. USCGS.
	NZ	ePS		35	43				
	N	eL		56	-				
	N	M	03	06	-	18	9		
	E	M		09	-	17	4		
	Z	M		09	-	16	3		Mag. = 6.3
		F	04	15	-				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
18	N	e	12	05	-				
	N	M		16	-	19	4		
		F		35	-				
18	ZV,Z	iP	15	00	47	8	3	9250	Dilatation.
	N	iS		11	04	10	4		
	E	iScS		11	17				
	E	i		11	33				
	N	i		11	40				14° ., 96°E. Gulf of Martaban, Burma. USCGS.
	N	eL		32	-				
	E	M		38½	-	20	7		
	N	M		38½	-	20	22		
	E	M		45	-	18	10		
	Z	M		45	-	16	7		
		F	17	05	-				Mag. = 6.6
18	Z	ePKP	18	16	05				
	ZV,Z	$ePKP_2$		16	21				25°S., 170°E. Loyalty Islands region. Mag. 6(Pas). USCGS.
	N	eL	19	10	-				
	E	M		24	-	22	5		
	N	M		25½	-	21	20		
	Z	M		25½	-	20	7		
		F	21	00	-				Mag. = 6½
19	Z	ePKP	01	49	40				
	ZV,Z	$ePKP_2$		50	07				
	NE	eSS	02	13.0	-				24°S., 175½°W. Tonga Islands. Mag. 6¼-6½(Pas). USCGS.
	N	eL		48	-				
	N	M		57	-	20	4		
	E	M	03	01	-	19	2		
		F	04	15	-				Mag. = 6.3
19	Z,ZV	ePKP	08	21	10				
	Z,ZV	i		21	35				
	ZN	e		21	48				16½°S., 176½°E. Fiji Islands. Mag. 6½(Pas), 6¾(Berk). USCGS.
	N	e		29	50				
	N	eSKKS		32	04				
	E	eSS		43	18				
	N	e		43	59				
	N	e		49	08				
	E	M	09	27½	-	21	7		
	N	M		27½	-	21	15		
	Z	M		42	-	16	3		Mag. = 6.7
		F	11	00	-				
19	ZV	e	11	11	38				
	ZV	e		11	42				
	ZV,Z	e		12	18				
	ZV	e		12	40				
		F		13	00				
20	N	e	02	00	-				Small. 20°N., 145½°E. Mariana Islands. USCGS.
		F		20	-				
21	ZV	eP	18	50	11				
	ZV,Z	e		50	23				
	N	eL	19	22	-				Kurile Islands region.
	E	M		31	-	17	1		
	N	M		31	-	18	4		
		F	20	15	-				

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SEISMOLOGICAL BULLETIN.

JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
21	N	e	22	53	-				
	N	M		56½	-	22	3		
		F	23	20	-				
22	N	e	00	03	-				Small.
		F		35	-				
22	Z	iP	06	31	16	6	5	9000	Compression. ZVe
	ZV,Z	i		31	18				Dilatation.
	ZV,Z	e		31	37				
	ZV,Z	e(pP)		31	55				
	ZV,Z	e(sP)		32	16				16°N., 94°W. Near coast of
	E	e		41	14				Chiapas, Mexico. Mag.6½(Pas).
	NE	iS		41	21	~~8~~	~~7(SW)~~		USCGS.
	ZNE	iSKS		41	29				
	ZE	iPS		42	12				
	N	eL		54	-				
	E	M	07	00	-	28	12		
	N	M		01	-	26	17		Mag. = 6.7
		F	08	20	-				
22	N	eL	19	43	-				16°N., 45½°W. Mid-Atlantic
	N	M		45½	-	20	2		Ocean. USCGS.
		F		55	-				
23	Z,ZV	e	00	09	21			12900	
	Z	e(PP)		10	05				
	ZN	e		10	35				
	NE	e		13	24				
	NE	eSKS		15	42				1½°S., 137°E. Near north coast of
	NE	e(S)		17	35				New Guinea. Mag. 7¼(Pas),7-7¼(Berk)
	N	e		18	23				USCGS.
	NE	ePPS		20	21				
	ZNE	e		22	06				
	NE	e(SKKS)		27	09				
	N	eL		39	-				
	E	eL		44	-				
	Z	M	01	03	-	20	67		
	E	M		03	-	20	130		
	N	M		05	-	20	254		Mag. = 7¼
		F	04	30	-				
23	ZV	eP	03	37	47				58½°N., 137°W. Near coast of
									Alaska. USCGS.
24	N	eL	04	42	-				
	N	M		43	-	17	3		
		F		50	-				
24	ZV,Z	iP	10	01	57				Compression.
	ZV,Z	e(pP)		02	36				16°N., 94°W. Mexico aftershock.
	N	M		32	-	26	2		USCGS.
		F		50	-				
24	N	e	12	20	-				Very small.
		F	13	00	-				

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SEISMOLOGICAL BULLETIN.

JUNE, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
25	ZV,Z	eP	10	23	54				
	N	eL		58	-				
	N	M	11	07	-	20	2		
		F		25	-				
26	N	e(SKS)	03	11	51				
	N	eL		36	-				
	N	M		47	-	18	2		
		F	04	15	-				
27	ZV,Z	iP	00	19	42	9	47	7070	Dilatation.
	ZV,Z	i		19	51	~~9~~	~~51 (EH)~~		
	NZ	iPP		22	05	8	13		
	NZ	iPPP		23	29				Lake Baikal region USSR.
	NE	iS		28	12	~~10~~	~~68 (SH)~~		
	NE	i		28	23				
	N	iPPS		28	43				
	N	iSS		32	13				
	E	M		(50)	-	(600)			
	N	M		(50)	-	(700)			Mag. = 7.6
		F	05	20	-				
27	EZ	e	07	19	22				
	N	eL		21½	-				
	N	M		22½	-	14	6		
		F		30	-				
28	ZV,Z	eP	21	27	11				
	E	eL		31	-				36°N., 1°E.
	E	M		32	-	15	6		Orleansville region, Algeria.
	N	M		33½	-	14	5		BCIS.
	Z	M		34	-	13	3		
		F		55	-				Mag. = 5½
29	N	e	04	53	-				Very small.
		F	05	03	-				
29	ZV,Z	eP	08	00	09			8710	
	N	eS		10	01				Aleutian Islands.
	N	e		10	21				
	N	eL		26	-				
	N	M		37	-	20	2		
		F	09	05	-				
29	ZV	eP	22	44	08				
	N	eL	23	06	-				Lake Baikal aftershock.
	N	M		10	-	18	2		
		F		30	-				Mag. = 5¾
29	NE	eL	23	54½	-				
	E	M		55½	-	15	5		
	N	M		56½	-	12	3		
	Z	M		56½	-	12	2		
		F	24	05	-				

All the magnitudes are the "unified magnitudes" denoted by "m".

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1957

CORRECTIONS TO MAY 1957

The following corrections should be applied to the times reported in the Bulletin for May 1957 :

12th	May	— 1	sec.	
17th	"	— 1	"	
18th	"	— 2	"	
20th	"	— 2	"	(first shock only)
26th	"	— 3	"	
27th	"	— 2	"	
28th	"	— 2	"	
29th	"	— 2	"	
30th	"	— 2	"	
31st	"	— 1	"	(first shock only)

DS 59079/1/R94 140 7/57 CL

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY, 1957

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 : (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{wl}$ sec.$^{-1}$
N.	25 August, 1954	21.7	21.2	+0.01	54.4
E.	26 August, 1954	21.3	21.4	+0.01	52.6
Z.	1 September, 1954	11.3	11.4	+0.05	115.

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	N	eL	13	36	-				Atlantic Ocean foreshock. USCGS.
	N	M		40½	-	20	2		
		F	-	-	-				
1	N	M	13	53½	-	20	2		Mid-Atlantic Ocean near Ascension Island. USCGS.
		F	14	05	-				
1	ZV,Z	iP	19	41	52			8220	Compression.
	ZV,Z	i		41	56				Depth = 75 Km.
	ZV,Z	ipP		42	12				
	ZV,Z	e		42	15				
	ZV,Z	ePP		44	39				
	N	iS		51	16	14	5		25°N., 94°E. India-Burma border.
	E	iS		51	18	14	4		USCGS.
	N	isS		51	51				
	E	isS		51	53				
	E	ePPS		52	18				
	NE	eSS		56.1	-				
	N	eSSS		59.6	-				
	N	eL	20	03	-				surface waves poorly developed.
	E	M		12	-	20	10		
	N	M		12	-	22	38		
	Z	M		18	-	14	6		
		F	21	30	-				Mag. = 6½
2	ZV,Z	iP	00	50	02	8	22	4540	Compression.
	Z	iPP		51	39	9	19		PH 12 sec. 11 μ.
	E	iPP		51	40	12	~~16 (PPH)~~		
	N	iS		56	11	14	45		
	E	iS		56	12	14	17		36°N., 53°N., Northern Iran.
	N	i		58	44				Mag. 7¼-7½ (Pas). Approximately
	ZE	i		58	58				1500 dead & extensive property

contd.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
2	N	eL	00	59	-				damage throughout northern Iran. USCGS.
	N	eL_2	01	05	-				
	E	M		08	-	20	74		
	N	M		10	-	21	280		
	Z	M		14	-	13	33		
		F	05	00	-				Mag. = 6.9
3	N	e	02	21	-				
	N	M		41	-	20	2		52°N., 159°E. Near south coast of Kamchatka. USCGS.
		F	03	00	-				
3	ZV,Z	iP	12	36	45	4	1.4	8830	Dilatation.
	N	eS		46	42	12	2.6		
	N	eSS		51.5	-				50½°N., 179°W. Andreanof Islands, Aleutian Islands. Mag.6-6¼(Pas). USCGS.
	N	eL	13	02	-				
	E	M		12	-	22	2		
	N	M		14	-	22	7		
		F	14	15	-				Mag. = 6.2
3	N	e	17	49	-				Very small. 54°N., 165°W. Fox Islands. USCGS.
		F	18	00	-				
3	N	e	21	21	-				Very small.
		F	22	20	-				
4	N	e	03	18	-				Very small.
		F		25	-				
4	N	eL	13	16	-				34°N., 137°E. Near south coast of Honshu, Japan. USCGS.
	E	M		24	-	18	1		
	N	M		24	-	18	3		
		F		45	-				Mag. = 6
4	N	e	23	08	-				Very small. Arizona-Mexico foreshock. USCGS.
		F		25	-				
5	N	e	00	05	-				Very small. Arizona-Mexico foreshock. USCGS.
		F		20	-				
5	N	eL	01	38	-				32°N., 114°W. Arizona-Mexico border. USCGS.
	N	M		43	-	16	1.4		
		F	02	05	-				
5	N	e	13	50	-				28½°S., 179°W. Kermadec Islands. USCGS.
	N	M	14	07	-	20	1.6		
		F		45	-				
5	NE	eL	16	00	-				
	E	M		06	-	15	2		Eastern Belgian Congo. USCGS.
	N	M		06	-	17	4		
		F		45	-				Mag. = 5¾-6
7	ZV,Z	iP	06	05	08				
	N	eL		11½	-				39°N., 40°E. Turkey. USCGS.
	E	M		18½	-	20	3		
	N	M		18½	-	18	7		
	Z	M		22	-	14	2		
		F		50	-				Mag. = 5¾

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SEISMOLOGICAL BULLETIN.

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DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
7	Z,ZV	ePKP	16	30	30			(14000)	
	Z,ZV	e		30	42				
	Z	ePKS		33	50				
	N	e		33	52				$6\frac{1}{2}$°S., 156°E. Solomon Islands.
	Z	e		34	11				Mag. $6\frac{3}{4}$(Pas). USCGS.
	N	eSS		49	04				
	N	eL	17	04	-				
	E	M		20	-	24	3		
	N	M		23	-	24	9		
		F	19	40	-				Mag. = $6\frac{1}{2}$
9	N	eL	10	42	-				6°S., 104°E. Near south coast of
	N	M	11	$03\frac{1}{2}$	-	20	6		Sumatra. h about 60 Km. USCGS.
	E	M		05	-	20	2		
		F	12	00	-				Mag. = $6\frac{1}{4}$.
9	Z,ZV	eP	20	39	29			2280	
	N	eS		43	12				
	N	eL		44	-				Region of Jan Mayen.
	E	M		$45\frac{1}{2}$	-	20	1		
	N	M		46	-	20	2		Mag. $5\frac{1}{4}$
		F		57	-				
9	ZV,ZN	eP	21	24	49			2300	
	N	eS		28	34				
	N	eL		30	-				Region of Jan Mayen.
	E	M		31	-	19	1		
	N	M		31	-	20	2		
		F		43	-				Mag. = $5\frac{1}{4}$
9	N	eL	22	52	-				
	N	M	23	04	-	13	2		
		F		15	-				
10	N	e	05	23	-				$52\frac{1}{2}$°N., 170°W. Fox Islands.USCGS.
	N	M		35	-	18	1.5		
		F	06	00	-				
10	Z	eP	06	10	13			2300	
	N	eS		13	59				Region of Jan Mayen.
	N	M		16	-	20	$1\frac{1}{2}$		
		F		28	-				
10	Z,ZV	eP	09	16	17	5	2.5	8890	
	Z	i		16	20				
	Z,ZV	i		16	26				
	Z	e		16	39				
	Z	ePP		19	23				8°N., $82\frac{1}{2}$°W. Near coast of
	NE	eS		26	17				Panama. Mag. $6\frac{1}{2}$-$6\frac{3}{4}$ (Pas),$6\frac{3}{4}$-7
	N	eSKS		26	27				(Berk). USCGS.
	NE	ePS		26	57				
	N	eLQ		37	-				
	E	eLR		41	-				
	N	eL2		45	-				
	Z	M		$45\frac{1}{2}$	-	22	18		
	E	M		$45\frac{1}{2}$	-	22	17		
	N	M		$47\frac{1}{2}$	-	21	15		Mag. = $6\frac{1}{2}$
		F	12	00	-				

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SEISMOLOGICAL BULLETIN. JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	N	e	23	46	31				
	N	M		52	-	14	2		
		F	24	03	-				
12	N	e	22	00	-				3°S., 148½°E. Bismark Sea. USCGS.
	N	M		12	-	22	2		
		F		35	-				
12	Z	eP	22	25	52				
	N	eL		50	-				22½°N., 122½°E. Off east coast of
	N	M	23	04	-	20	2		Formosa. USCGS.
		F		25	-				
13	N	eL	01	41	-				
	N	M		51½	-	20	4		52°N., 169½°W. Fox Islands.USCGS.
	E	M		54½	-	20	2		
		F	02	25	-				Mag. = 6
13	ZE	eP	03	36	22			2380	
	NE	eS		40	13				
	Z	e		40	14				
	N	eL		42½	-				
	N	M		44	-	14	3		
	E	M		45	-	12	2		
		F		50	-				Mag. = 5½
14	ZV,Z	eP	02	39	03				
	N	eL	03	08	-				46°N., 151½°E. Kurile Islands.
	N	M		15	-	21	3		USCGS.
		F		40	-				
14	ZV,Z	iPKP$_1$	06	43	31	8	4	17100	Dilatation.
	ZV,Z	i		43	40				Depth = 200 Km.
	ZV,Z	iPKP$_2$		43	57	9	6		
	ZN,Z	ipPKP$_1$		44	23				
	ZV	ipPKP$_2$		44	50				
	Z	e		45	07				
	ZN	iPP		47	33	9	5		PPH = 9s. 6 μ
	Z,ZV	e		47	50				
	NZ	ipPP		48	20				
	Z	esPP		48	39				
	N	i		54	06				27½°S., 177°W. Tonga Islands
	Z	i		54	50				region. h about 200 Km.
	Z	iSKSP		57	24				Mag. 7-7¼(Pas) 6¾(Berk). USCGS.
	N	ePSKS		57	48				
	E	eSS	07	07	02				
	E	esSS		08	18				
	N	eL$_Q$		28	-				
	E	M		53	-	20	4		
	N	M		53	-	21	8		Mag. = 7¼
	Z	M		53	-	20	4		
		F	-	-	-				overlapped by next shock.

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
14	ZV,Z	ePKP	08	30	45			17500	
	ZV,Z	iPKP2		31	18				
	Z	ePP		34	56				
	N	e		45	13				30°S., 177°W. Kermadec Islands.
	N	ePPS		48	24				Mag. 6¾ (Pas). 7 (Berk). USCGS.
	EN	eSS		55.2	-				
	N	i		55	54				
	N	e	09	03	40				
	E	M		40	-	20	8		
	N	M		44	-	20	23		Mag. = 6¾
	Z	M		45	-	20	8		
		F	-	-	-				overlapped by next shock.
14	ZV,Z	ePKP	10	02	15				
	ZV,Z	e		02	30				20°S., 174½°W. Tonga Islands.
	E	M	11	07	-	20	2		USCGS.
	N	M		07	-	21	4		Mag. = 6¼
		F	-	-	-				overlapped by next shock.
15	NE	eL	09	44½	-				36°N., 7½°W. West of Gibraltar.
	E	M		46	-	15	3		USCGS.
	N	M		46	-	15	4		
		F		55	-				Mag. = 5½
15	N	eL	23	38	-				
	N	M		43	-	20	2		39°N., 70°E. West Pakistan.USCGS.
		F	24	10	-				
17	ZV,Z	ePKP	11	29	37	8	2	14900	Depth = 120 Km.
	Z	epPKP		30	09				
	Z	ePP		32	22	10	2		PPH = 10s. 2 μ
	Z	epPP		32	55				
	N	iPKS		33	11	12	7		11°S., 167°E. Santa Cruz Islands,
	N	ipPKS		33	42				Mag. 6¼-6½(Pas). USCGS.
	E	M	12	19½	-	26	3		
	N	M		19½	-	26	10		Mag. = 6¼.
		F	-	-	-				overlapped by next shock.
17	N	M	13	39	-	21	3		2°S., 137°E. New Guinea. USCGS.
	E	M		39½	-	20	2		
	Z	M		39½	-	20	4		
		F	14	30	-				Mag. = 6¼
17	NE	eL	19	06	-				
	E	M		09	-	18	3		1°S., 13°W. Mid-Atlantic Ocean.
	N	M		12	-	18	6		USCGS.
	Z	M		12	-	18	3		
		F		35	-				Mag. = 6
18	N	eL	01	50	-				53°N., 169°W. Fox Islands.USCGS.
	N	M	02	07	-	20	2		
		F		35	-				
18	N	eL	12	20	-				5°S., 146°E. Near north coast of
	N	M		31	-	19	2		New Guinea. USCGS.
		F		35	-				
19	NE	eSKS	13	25	23				25°N., 122½°E. Near north coast
	N	eS		25	39	12	2½		of Formosa. USCGS.
	NE	e		26	25				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
19	NE	eL	13	47	-				
	E	M		52	-	24	2		
	N	M		52	-	24	4		Mag. = 6
		F	14	30	-				
19	N	eL	22	30	-				$3\frac{1}{2}$°S., 142°E. New Guinea. USCGS.
	N	M		51	-	20	1		
		F	23	00	-				
20	N	eS	10	17	43	11	2(SH)		
	E	e		17	45				
	NE	eL		39	-				
	E	M		47	-	16	1		
	N	M		47	-	14	2		
	Z	M		47	-	12	1		
		F	11	10	-				
20	N	eL	14	53	-				43°N., 145°E. Near east coast of Hokkaido, Japan. USCGS.
	E	M	15	00	-	18	1		
	N	M		00	-	20	3		
		F		30	-				
20	ZV,Z	ePKP	15	58	37				
	N	eL	16	53	-				$19\frac{1}{2}$°S., 174°W. Tonga Islands. USCGS.
	N	M		59	-	20	2		
		F	17	30	-				
21	N	eL	06	$41\frac{1}{2}$	-				$14\frac{1}{2}$°N., 92°W. Near coast of Guatemala. h about 100 Km. Mag. $5\frac{3}{4}$-6 (Berk). USCGS.
	E	M		49	-	20	2		
	N	M		49	-	20	2		
	Z	M		49	-	20	2		
		F	-	-	-				overlapped by next shock.
21	N	eL	07	20	-				$62\frac{1}{2}$°S., 154°E. Balleny Islands region. USCGS.
	N	M		38	-	18	3		
	E	M		38	-	20	1		
		F	08	20	-				
22	ZV,Z	$ePKP_1$	06	36	59				
	ZV,Z	e		37	20				$33\frac{1}{2}$°S., 178°W. Kermadec Islands region. USCGS.
	ZV,Z	$ePKP_2$		37	45				
	N	eL	07	22	-				
	N	M		51	-	20	3		
	Z	M		51	-	20	2		
	E	M		54	-	20	1		Mag. = $6\frac{1}{4}$
		F	08	50	-				
23	ZV,ZN	eP	00	57	09	9	$1\frac{1}{2}$	8640	Compression. PH = 13sec. 2 u
	ZV,Z	ePP	01	00	15				
	E	eS		06	58				
	NE	eSKS		07	15				
	N	e		07	32				52°N., 177°W. Andreanof Islands, Aleutian Islands. Mag. $6\frac{1}{4}$-$6\frac{1}{2}$ (Pas) USCGS.
	N	ePPS		07	53				
	N	eSS		12	44				
	N	eSSS		16	04				
	E	eL		27	-				
	N	eL		29	-				
	E	M		44	-	18	6		
	N	M		44	-	18	21		
	Z	M		44	-	18	9		Mag. = $6\frac{1}{2}$
		F	04	15	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
23	N	eL	07	44	-				20½°S., 170°E. Loyalty Islands
	N	M		48	-	20	1		USCGS.
		F		52					
23	ZV	eP	19	45	25				
24	Z	eP	02	11	26			11200	
	Z	ePP		15	36				
	NE	eSKS		21	57				30°S., 70½°W. Central Chile-
	E	eSKKS		22	23				Argentina border. Slightly
	N	eL		42	-				deeper than normal.
	E	M		53	-	24	4		Mag. 6½(Pas). USCGS.
	N	M		57½	-	19	6		
	Z	M		57½	-	19	2		
		F	04	20	-				Mag. = 6½
24	ZV,Z	ePKP	10	16	42				18°S., 169½°E. New Hebrides.
									USCGS.
24	ZV,Z	ePKP	11	22	13				
	ZV,Z	i		22	17				
	Z	i		22	26				20°S., 169°E. New Hebrides
	N	eL	12	06	-				Islands. Mag. 6½(Pas). USCGS.
	N	M		18	-	28	6		
	N	M		30	-	20	5		
	E	M		36	-	20	2		
	Z	M		36	-	20	2		
		F	13	30	-				Mag. 6¼-6½.
25	ZV,Z	eP	07	54	23				
	N	M	08	42	-	17	4		51°N., 177°W. Andreanof Island,
	E	M		42	-	17	2		Aleutian Islands. Mag. 6¼(Berk).
	Z	M		42	-	17	3		USCGS.
		F	09	30	-				Mag. = 6
25	N	e	20	10	-				Very small.
		F		25	-				
27	N	e	19	50	-				6½°S., 151½°E. New Britain region.
	N	M	20	01	-	20	1		USCGS.
		F		10	-				
28	ZV,Z	iP	08	52	28			9300	NEe. Compression.
	ZV,Z	i		52	37				
	ZV,ZNE	i(P2)		52	43	14	65		Dilatation. PH = 18sec. 36 u
	ZV,Z	iPP		55	45	14	43		
	NE	iPP		55	49	~~20~~	~~33(PH)~~		
	E	iSKS	09	02	55				
	NE	iS		03	02				17°N., 99°W. Guerrero, Mexico.
	NE	iScS		03	11				66 dead, many injured. Heavy
	Z	i		03	19				property damage in Mexico City
	NE	i		03	20				and Acapulco. Mag. 7½(Pas), 7¼-7½
	E	i		03	33				(Berk). USCGS.
	NE	iPS		03	52				
	Z	i		03	54				
	NE	iSS		07	45				
	NE	i		08	34				
	N	iSSS		11	31				
	N	eLQ		14½	-				
	E	eLR		19	-				
	N	eL2		23½	-				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
28	E	(M)	09	26	-	24	260		Break in recording between 09h. 27m. - 09h. 32m.
	N	(M)		26	-	25	410		
	Z	(M)		26	-	23	370		
		F	13	30	-				Mag.= 7.7
28	ZV,Z	eP	13	46	43				$17\frac{1}{2}$°N., 99°W. Mexico aftershock. USCGS.
	E	M	14	24	-	20	1		
		F		35	-				
29	Z	iP	17	28	50	6	2	10600	Compression.
	Z	ePP		32	43	6	$2\frac{1}{2}$		
	E	iSKS		39	26				$23\frac{1}{2}$°S., $71\frac{1}{2}$°W. Near coast of Chile, Mag. 7-$7\frac{1}{4}$(Pas).$6\frac{3}{4}$(Berk). USCGS.
	ZE	ePS		41	32				
	NE	eLQ		57	-				
	ZE	eL	18	05	-				
	E	M		$08\frac{1}{2}$	-	22	25		
	N	M		$08\frac{1}{2}$	-	21	18		
	Z	M		$09\frac{1}{2}$	-	20	22		
		F	20	20	-				Mag. = 6.8

All the magnitudes are the "unified magnitudes" denoted by "m".

FORM 3718.

DS83077/1/R94 1408/57CL

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST 1957

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 : (I) GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS : FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1918).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ah}{wl}$ sec.$^{-1}$
N.	1 August 1957	21.2	21.2	0.00	62.5
E.	1 August 1957	21.1	21.1	0.00	52.0
Z.	1 September 54	11.3	11.4	+0.05	115.

(II) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	N	e	17	05	-				Very small. 52°N., 170°W.
		F		20	-				Fox Is. USCGS.
4	Z	e	01	00	-				3½°S., 145°E. Near north coast of
	NE	eL		35	-				New Guinea. USCGS
	E	M		55	-	19	3		
	N	M		56	-	19	5		
	Z	M		56	-	19	4		
		F	03	05	-				Mag. = 6¼
4	Z,ZV	eP	06	19	(01)	5	1	9300	beginning in minute break
	Z,ZV	e		19	17				17°N., 100°W. Mexico aftershock.
	Z	ePP		22	16	8	½ 0.5		Mag. 6¼ (Pas) USCGS
	E	e		29	47				
	E	M	07	04	-	16	1		
	N	M		04	-	16	1		
	Z	M		04	-	16	1		
		F		25	-				Mag. 6¼
4	ZV,Z	eP	14	28	42	5	1		Compression
	E	e		39	22				17°N., 99½°W. Mexico aftershock.
	E	M	15	12	-	16	1		Mag. 6¼ (Pas) USCGS
	N	M		12	-	16	1		
	Z	M		14	-	16	1		
		F		35	-				Mag. = 6¼
4	Z	eP	21	22	41			11300	45°S., 35°E. Prince Edward Islands
	Z	ePP		26	55	8	1		region. USCGS
	N	eSKS		33	36	14	2½ 5		
	N	ePS		35	50				

Form 3717.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
4	NE	eSS	21	41	36				
	NE	eSSS		45.2	-				
	NE	eL		57	-				
	E	M	22	07	-	20	10		
	N	M		10	-	20	11		
	Z	M		10	-	20	7		
		F	23	20	-				Mag. 6¼ - 6½
5	N	e	03	25	-				
	N	M		31½	-	16	1		
		F		40	-				
5	NE	e	05	45	-				Very small.
		F	06	30	-				
5	N	e	22	58	-				Very small. Kermadec Islands
		F	23	35	-				region. USCGS
5	N	e	23	55	-				Very small. Northern Ryukyu
		F	24	10	-				Islands. USCGS
7	N	eL	06	30	-				Very small. Near coast of
		F	07	10	-				Kamchatka. USCGS
7	ZV,Z	iPKP	19	59	36				17½°S., 179°W. Fiji Islands
	ZV,Z	e	20	01	43				h about 550Km. USCGS
8	N	e	01	23	-				Very small. 32½°N., 25½°E.
		F		35	-				Near coast of Egypt. USCGS
8	N	e	20	22	-				Very small. Sinkiang Province,
		F		35	-				China. USCGS
8	NE	eS	22	51	18				7°S., 13°W., Ascension Island region
	NE	eL		57	-				USCGS
	E	M	23	05	-	19	2		
	N	M		09	-	20	2		
	Z	M		09	-	20	1		
		F		20	-				Mag. = 5¾ - 6
8	NE	eL	23	22	-				Ascension Island region
	E	M		30	-	19	2		
	N	M		34	-	20	1		
		F		45	-				Mag. = 5¾
9	N	e	02	59	-				2°S., 137°E. New Guinea.USCGS.
	N	eL	03	18	-				
	NE	eL		24	-				
	E	M		44	-	19	3		
	N	M		44	-	20	7		
	Z	M		44	-	19	4		
		F	05	10	-				Mag. = 6¼
9	ZV,Z	eP	11	11	46				Kurile Islands USCGS
10	ZV	iP	00	13	39				Kurile Islands USCGS
10	N	e	05	14	-				Very small. 17°S., 172°W.
		F		35	-				Tonga Islands. USCGS

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	N	e	20	39	-				
	N	M		44	-	16	3		
		F		55	-				
11	Z,ZV	ePKP	21	57	48				Confused by microseisms
	Z,ZV	e		57	57				17½°S., 169°E. New Hebrides
	Z	e(PKS)	22	01	23				Islands. Mag. 6¾ (Pas) USCGS
	NE	eL		45	-				
	Z	M	23	09	-	19	2		
	N	M		09	-	19	2		
	E	M		11	-	20	2		
		F		55	-				Mag. 6¼
13	N	eL	13	10	-				
	E	M		23	-	16	½		
	N	M		26	-	17	1		
		F		35	-				
13	N	e	16	40	-				Very small. Near East coast of
		F		55	-				Formosa. USCGS
14	N	eL	02	57½	-				35¾°N., 28°E. Dodecanese Islands.
	N	M		59½	-	16	3		BCIS
	E	M	03	00	-	16	1		
		F		10	-				
15	ZV	eP	20	45	31				36.4°N., 1.4°E. Algeria. BCIS
	E	eL		49½	-				
	E	M		50½	-	14	1		
	N	M		52	-	14	1		
	Z	M		52	-	14	½		
		F	21	00	-				
15	ZV,Z	e(sPKP)	21	06	12				4½°S., 155°E. Solomon Islands
	Z	e(pPP)		07	44				region. h about 550 Km. USCGS
	Z	e		14	59				
16	Z	eP	23	44	58	7	1	10200	10½°N., 104°W. Pacific Ocean. Mag.
	Z	ePP		48	35	10	1½		6½ - 6¾ (Pas) (Berk) USCGS
	E	eSKS		55	34				
	NE	eS		55	55	~~11~~	~~8(SH)~~		
17	N	eSS	00	01	49				
	N	eL		10	-				
	N	M		18	-	28	25		
	E	M		20	-	24	14		
	N	M		25	-	20	8		
	E	M		26	-	20	9		
	Z	M		27	-	16	8		
		F	02	30	-				Mag. = 6.5
18	NE	e	08	08	-				Small
		F		40	-				
18	E	eSKS	09	01	29				12°N.,124°E. Philippine Islands
	EN	eSKKS		01	56				USCGS
	N	eS		02	23				
	E	e		02	51				
	N	eL		18½	-				
	E	M		32	-	23	25		

FORM 8718.
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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd									
18	N	M	09	32	-	23	36		
	Z	M		41	-	19	10		
		F	11	10	-				Mag. =6¾
18	NE	e	21	43	-				16½°N., 99°W. Mexico aftershock
	N	M	22	00	-	20	2		USCGS
	E	M		01	-	18	3		
	Z	M		01	-	18	3		
		F	-	-	-				overlapped by next shock
18	ZV,Z	iP	21	54	24	7	2	8500	Compression
	ZV	i		54	28				50°N., 157°E. Northern Kurile
	N	eS	22	04	06	12	3		Islands. Mag. 6½ (Pas) USCGS
	E	eSKS		04	28				
	N	ePS		04	45				
	N	e		04	59				
	N	eSS		09	18				
	E	eL		17	-				
	E	M		31	-	22	20		
	N	M		35	-	20	20		
	Z	M		35	-	19	13		
		F	24	20	-				Mag. = 6.4
19	Z	ePP	11	56	42				10°S., 161°E. Solomon Islands
	N	M	13	04	-	20	1½		foreshock Mag.6½ (Pas) USCGS
		F		30	-				
19	ZV,Z	eP	21	43	52			8700	51½°N., 171°W. Fox Islands
	N	eS		53	44				USCGS
	N	eL	22	15	-				
		F		45	-				
20	Z	e(PP)	06	48	28				10°S., 161°E. Solomon Islands
	NE	e(PKS)		49	25				foreshock. Mag.6 - 6¼ (Pas)
	NE	e	07	07	18				USCGS
	E	M		40	-	20	2		
	N	M		40	-	20	2		
		F	08	55	-				Mag. =6
20	Z	e(P)	12	21	22			(14600)	10°S., 161°E. Solomon Islands
	Z	e(PP)		23	48				Mag. 6½ (Pas) USCGS
	Z	e(PKS)		24	48				
	N	e		24	54				
	NE	eSS		42	08				
	NE	eSSS		47.1	-				
	N	eL		59	-				
	E	M	13	14	-	21	3		
	N	M		15	-	21	4		
	Z	M		20	-	20	2		
		F	14	30	-				Mag. = 6¼
20	ZV,Z	eP	15	29	53				37°N., 71½°E. Hindukush. USCGS
20	N	eL	18	39	-				
	N	M		40	-	16	1½		
		F		42	-				
20	N	e	23	05	-				Very small. Andreanof Islands.
		F		15	-				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
21	ZV,Z	iP	15	46	10				Dilatation Kurile Islands USCGS
21	N	e	20	15	-				Very small. Fox Islands USCGS
		F		30	-				
22	N	e	04	24	-				Very small. Near Hokaido, Japan. USCGS
		F		35	-				
22	NE	e	07	00	-				
	E	M		01	-	13	1		
	N	M		01	-	13	½		
	Z	M		01	-	12	1		
		F		04	-				
22	NE	e	08	52	-				Very small. 1°N., 126°E. Molucca Passage. USCGS
		F	09	10	-				
22	N	e	19	00	-				Very small
		F		10	-				
23	Z	e(PKS)	02	22	26				6°S., 154½°E. New Britain aftershock. Mag.6½ (Pas) USCGS
	NE	e		22	41				
	N	eL		53	-				
	E	M	03	12	-	26	2		
	N	M		12	-	27	8		
		F	04	15	-				
23	N	eL	12	30	-				24°N., 122°E. Off east coast of Formosa. USCGS
	Z	M		40	-	18	3		
	N	M		40	-	19	5		
	E	M		40½	-	16	2		
		F		55	-				
26	ZNE	e(P)	11	41	53			10000	19°S., 63°W. Southern Bolivia. Mag 6¼ - 6½ (Pas) USCGS
	Z	e(PP)		45	33				
	E	eSKS		52	16				
	NE	e		52	24				
	N	eS		52	41				
	ZE	ePS		53	49				
	N	eSS		58.8	-				
	NE	eLQ	12	07	-				
	ZNE	eL		15	-				
	E	M		16	-	22	10		
	N	M		18	-	20	10		
	Z	M		24	-	18	9		
		F	13	45	-				Mag. = 6½
26	ZV,Z	eP	14	11	28			(10300)	Break in recording between 14h 21m - 28m
	ZV	e		11	37				
	Z	ePP		15	09				12°S., 81°W. Near coast of Ecuador. Mag. 6 (Pas) USCGS
	E	M		48	-	18	11		
	N	M		48	-	18	7		
	Z	M		48	-	18	9		
		F	16	40	-				Mag. = 6½
27	Z	e	11	59	23				
	Z	e	12	00	29				
	NE	e		01	01				
		F		05	-				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

August 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	ZV,Z	e(P)	08	39	38				
28	N	e	09	43	-				Very small
		F	10	35	-				
29	NE	eL	00	10	-				
	E	M		22	-	21	2		
	N	M		22	-	21	2		
		F	01	15	-				
30	ZV	eP	16	26	(57)			5700	beginning in time break
	NE	eS		34	12				Tadshik S.S.R.
	N	eSS		37.9	-				
	N	eL		44	-				
	E	M		51	-	16	4		
	N	M		51	-	16	5		
	Z	M		51	-	16	5		
		F	17	20	-				Mag. = 6
30	E	e(SKS)	20	27	41				
	Z	e(PS)		29	20				
	NE	eL		50	-				
	E	M	21	03½	-	17	2		
	N	M		03½	-	16	3		
	Z	M		03½	-	16	2		
		F		20	-				
31	NE	e	00	44	-				Very small.
		F	01	00	-				
31	NE	eL	12	09	-				
	E	M		10	-	16	1		
	N	M		10½	-	16	3		
		F		20	-				
31	NE	e	12	30	-				
	E	M		40	-	15	1½		
	N	M		40	-	15	1½		
	Z	M		40	-	15	1½		
		F	13	00	-				

FORM 3718.

D384000/11/R94 140 9/57CL

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR SEPTEMBER, 1957

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 : (I) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 August 1957	21.2	21.2	0.00	62.5
E.	1 August 1957	21.1	21.1	0.00	52.0
Z.	1 September 1954	11.3	11.4	+0.05	115

(II) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	e(P)	12	59	05				
	NE	eL	13	19	-				39°N., 75°E. Western Sinkiang
	N	M		20½	-	17	1½		Province, China. USCGS.
	E	M		25	-	16	1½		
		F		35	-				Mag. = 5¾
2	NE	eL	00	54	-				18°N., 147½°E. Mariana Islands.
	E	M	01	01	-	20	1½		USCGS.
	N	M		01	-	20	1½		
		F		35	-				Mag. = 6
2	N	M	11	12½	-	20	1		15°S., 173½°W. Samoa Islands.
	E	M		13	-	20	1		Mag. 6-6½ (Berk.) USCGS.
		F	12	10	-				
2	ZV,Z	eP	14	32	07			8620	
	ZV,Z	eIP		34	51				51½°N., 168°W. Fox Islands,
	N	eS		41	55				Aleutian Islands. USCGS.
	N	eL		58	-				
	N	M	15	10	-	18	1½		
	E	M		11	-	16	1½		
		F		25	-				
2	ZV,Z	iP	21	36	23			5550	Compression.
	ZV,Z	epP		37	13				Depth = 220 Km.
	ZV,Z	esP		37	34				
	ZV	e		37	46				37°N., 71°E. Hindu Kush.
	ZV,Z	e		38	07				h about 200 Km. USCGS.
	NE	eS		43	30				
	NE	esS		44	49				
	E	esSS		48	27				
	N	M		58	-	16	1		
	E	F		22	15				

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
3	Z	eP	20	28	06			(2380)	
	N	e(S)		31	57				
	NE	eL		33	-				
	E	M		34½	-	16	1½		
	N	M		34½	-	17	1½		
	Z	M		34½	-	16	1½		
		F		50					
3	NE	e	21	55	-				Very small.
		F	22	03	-				
4	NE	e	05	25	-				
	N	M		48	-	20	1		
	E	M		55	-	17	1		
	Z	M	06	00	-	16	1		
		F		20	-				
5	ZV	eP	11	44	36				Southern Iran. 1 killed, many
	E	M	12	05	-	20	1½		injured and moderate property
	N	M		05	-	16	1		damage in Jahrom and Kerman.USCGS.
		F		30	-				
									Mag. = 5½
6	N	e(S)	05	16	37				51°N., 177°W. Andreanof Islands.
	N	e		16	51				Aleutian Islands. USCGS.
	N	M		54	-	16	½		
		F	06	10	-				
6	NE	e	20	30	-				Small. Southern Yugoslavia.USCGS.
		F		45	-				
7	ZV	eP	07	00	29				Confused by strong microseisms.
	N	eL		24	-				50°N., 156°E. Northern Kurile
	E	M		37	-	20	2½		Islands. USCGS.
	N	M		40	-	20	2		Mag. = 6
		F	08	10	-				
7	ZV,Z	eP	10	18	50				
	N	eL		40	-				51½°N., 178½°W. Andreanof Islands,
	N	M		55	-	24	7		Aleutian Islands. USCGS.
	E	M		58½	-	20	5		
	Z	M		59½	-	18	9		
		F	11	50	-				Mag. = 6¼
9	NE	e(SS)	00	52	26				
	N	e	01	01.0	-				48°S., 100°E. South Indian Ocean.
	N	eLQ		07½	-				USCGS.
	NE	eL$_R$		22½	-				
	Z	M		36	-	20	4		
	E	M		36	-	19	4		
	N	M		37	-	19	4		Mag. = 6½
		F	02	30	-				
9	N	eL	10	10	-				15°S., 176½°W. Fiji Islands
	N	M		26	-	20	1½		region. USCGS.
	E	M		28	-	20	1½		
		F	11	20	-				

FORM 3718.

(84 883)

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	N	e	06	54	-				Very small. 27°N., 96½°E.
		F	07	03	-				India-Burma border. USCGS.
10	NE	e	20	23	-				Very small.
		F		45	-				
12	ZV	eP	00	39	38			8240	Confused by microseism.
	ZV	e(pP)		39	50				
	ZV	e		40	16				
	NE	eS		49	08				17½°N., 85°W. About 100 miles
	E	eSS		53.9	-				north of Honduras. USCGS.
	N	eLQ	01	00	-				
	E	M		10	-	18	5		
	N	M		14	-	18	4		
	Z	M		14	-	18	4		
		F	01	15	-				Mag. = 6
15	NE	e	22	50	-				Very small. Andreanof Islands.
		F	23	15	-				USCGS.
16	NE	e	14	37	-				Very small.
		F	15	05	-				
16	NE	e	15	40	-				Very small.
		F	16	00	-				
17	N	eL	21	21½	-				Very small.
		F		27	-				
18	NE	e	01	45	-				53°N., 160°E. Near east coast of
	N	M		51	-	16	½		Kamchatka. USCGS.
		F	02	15	-				
19	NE	e	17	41	-				Very small. 79½°N., 3°E.
		F		55	-				Svalbard region. USCGS.
20	N	e	02	30	-				Very small.
		F		35	-				
20	ZV	eP	08	37	31				Kurile Islands. USCGS.
20	NE	eL	23	50	-				52°N., 170½°W. Fox Islands.USCGS.
	N	M		58	-	20	½		
		F	24	10	-				
21	ZV	eP	20	22	29			2980	
	E	eS		27	01				40½°N., 34½°E.
	EZ	e		27	13				Northern Turkey. USCGS.
	N	eLQ		29	-				
	E	M		34	-	16	2		
	N	M		34	-	16	2½		
		F	20	55	-				Mag. = 5½
22	NE	e	08	10	-				Small.
		F		25	-				

FORM 3718. (84883)

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24	ZV	e(PKP)	08	39	42			11670	Confused by strong microseisms.
	ZV,Z	e		39	51				Compression. NEe
	Z	i(PP)		40	10	7	8		
	ZV	e		40	44				
	E	e(PKS)		42	34				
	NE	iSKS		46	17				
	NE	i		46	52				
	N	iS		47	41				Ee
	N	i		48	04				
	ZNE	ePS		49	20				
	NE	i		49	36				$5\frac{1}{2}$°N., 127°E. Near south coast
	NE	ePPS		50	26				of Mindanao, Philippine Islands.
	N	iSS		55	20				Mag. $7\frac{3}{4}$(Pas). USCGS.
	N	iSSS		59	00				
	N	eLQ	09	$05\frac{1}{2}$	-				
	N	eL2		20	-				
	E	M		24	-	22	150		
	N	M		24	-	24	240		
	Z	M		$33\frac{1}{2}$	-	20	105		Mag. 7.4
		F	11	30	-				
25	ZV,Z	eP	05	57	31			3700	Confused by strong microseisms.
	NE	e(S)	06	02	49				34°N., $38\frac{1}{2}$°W. Near Azores Islands.
	N	eL		04	55				Mag. $6\frac{1}{4}$-$6\frac{1}{2}$(Pas). USCGS.
	N	M		06	-	18	22		
	E	M		$06\frac{1}{2}$	-	20	10		
	Z	M		07	-	14	6		
		F		55	-				Mag. = 6
25	N	eL	17	25	-				Mindanao aftershock. USCGS.
	N	M		44	-	20	$3\frac{1}{2}$		
	E	M		45	-	20	$2\frac{1}{2}$		
	Z	M		46	-	18	3		Mag. = 6
		F	18	15	-				
25	NE	eL	23	10	-				
	N	M		25	-	20	2		
	E	M		29	-	20	$1\frac{1}{2}$		
		F		50	-				
26	NE	eL	19	42	-				Small.
	N	M		51	-	26	$1\frac{1}{2}$		Mindanao aftershock. USCGS.
		F	20	10	-				
27	E	eSKS	04	33	43				
	E	e		34	53				1°S., 127°E. Spice Islands. USCGS.
	N	eL	05	04	-				
	E	M		17	-	20	$3\frac{1}{2}$		
	N	M		20	-	20	3		
	Z	M		20	-	20	$2\frac{1}{2}$		
		F		50	-				Mag. = $6\frac{1}{4}$
27	ZV	eP	05	09	32				64°N., 178°E. Eastern Siberia. USCGS.
27	NE	e	06	57	-				Very small. Spice Islands
		F	07	25	-				aftershock. USCGS.

FORM 3718. (84883)

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
√28	ZV,E	eP	00	39	41			9950	Compression.
	NE	eS		49	51				Depth = 440 Km.
	N	e		50	21				
	NE	esS		52	53				30½°N., 137½°E. Off south coast
	NE	eSS		56	06				of Honshu, Japan. h about 500 Km.
	N	eL	01	17	-				Mag. 6¾ (Pas). USCGS.
	E	M		22	-	16	1		
	N	M		25	-	16	1½		
		F		45	-				
28	NE	e	05	18	-				Very small.
		F		32	-				
28	NE	e	07	20	-				Very small.
		F		28	-				
√28	ZV,Z	iPKP	14	38	41	5	13	16400	Dilatation. NEe
	Z	i		38	46				Depth = 630 Km.
	Z	ipPKP		41	02				
	Z	iPP		42	03	10	17		PPH 16sec. 11 μ
	ZV,ZN	iPKS		42	21				
	ZN	epPP		44	13				20½°S., 178°W. Fiji Islands.
	ZN	ePS		52	57				h about 650 Km. Mag. 7½ (Pas),
	N	i		55	38				7-7¼ (Berk). USCGS.
	E	iSS	15	00	46	18	58		
	E	esSS		04	25				
		F	17	40	-				Mag. = 7
28	ZV	iPKP	15	02	50				
29	NE	eL	03	36	-				
	E	M		42	-	18	1		
	N	M		42	-	19	1½		
		F	04	20	-				
29	ZV,Z	$ePKP_1$	08	32	21				Depth = 600 Km.
	ZV,Z	$ePKP_2$		32	36				25°S., 178½°E. South of Fiji
	ZV,Z	epPKP		34	37				Islands. Mag. 6¼ (Berk.) USCGS.
29	NE	e	18	43	-				Small.
		F		59	-				
30	NE	eL	21	18	-				
	N	M		26	-	20	1		
		F		50	-				

All the magnitudes are the "unified magnitudes" denoted by "m".

FORM 3718.

DS 84883/1/R.94 140 10/57 XL

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER, 1957

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 : (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 August 1957	21.2	21.2	0.00	62.5
E.	1 August 1957	21.1	21.1	0.00	52.0
Z.	1 September 1954	11.3	11.4	+0.05	115

(ii) VERTICAL SEISMOGRAPH, PEPIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	ZV,Z	eP	12	38	35			7140	
	N	eS		47	09				
	N	eLQ		55	-				11°N., 63°W. Venezuela foreshock.
	ZE	eL		58½	-				Mag. 6½-6¾ (Pas). U.S.C.G.S.
	E	M	13	02	-	20	5		
	N	M		02	-	20	3		
	Z	M		02	-	20	4		
		F		55	-				Mag. = 6
2	ZV,Z	eP	21	11	15				
	NE	e(SKS)		21	32				6½°S., 69½°E. Chagos Islands.
	N	eL		33	-				USCGS.
	E	M		40	-	22	2		
	N	M		44	-	22	1½		
		F	22	15	-				Mag. = 6
3	NE	e	07	10	-				Very small. 4°S., 134°E.
		F		20	-				New Guinea. USCGS.
4	ZV,Z	iP	05	36	40			7280	Compression, Ee.
	ZV,Z	i		36	49				
	ZV,Z	i		35	54				
	Z	e(PcP)		37	21				
	ZE	e		37	50				11°N., 63°W. Near coast of
	ZV,Z	ePP		38	58				Venezuela. h about 60 Km.
	N	iS		45	21	12	6(SH)		Mag. 6¾ (Pas), 7 (Berk). USCGS.
	E	e		45	39				
	NE	ePS		45	45				
	NE	eScS		46	21				
	E	eSS		39	45				
	N	eLQ		52	53				
	E	eLR		57	-				

Form 3717. contd.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 19 57

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
4	N	M	06	00	-	20	13		
	E	M		02	-	20	31		
	Z	M		02	-	19	21		Mag. = 6½
		F	08	35	-				
4	N	e	23	53	-				Very small.
		F	24	05	-				
5	ZV,Z	eP	00	07	35				Rat Islands. Aleutian Islands. USCGS.
5	ZV	eP	11	42	18			3180	
	ZV,Z	e		42	26				
	ZV,Z	ePP		42	56				34½°N., 26½°E. Near Isle of Crete.
	N	eS		46	56				USCGS.
	E	e		47	07				
	NE	eL		51	-				
	N	M		52½	-	16	2		
	E	M		54½	-	14	2		
	Z	M		54½	-	13	2		Mag. = 5½
		F	12	10	-				
5	ZNE	e	16	05	-				Very small. Crete aftershock. USCGS.
		F		13	-				
5	ZV	e(P)	22	49	38				
	N	eL	23	07	-				38°N., 69½°E. Afganistan-
	E	M		14	-	20	1½		Tadzhik border. USCGS.
	N	M		14	-	20	½		
	Z	M		14	-	20	1		
		F		20	-				Mag. = 5½
6	NE	e	01	24	-				Very small. Venezuela aftershock.
		F		55	-				USCGS.
6	ZV	eP	21	39	45				49½°N., 155°E. Kurile Islands. USCGS.
7	NE	eL	05	51	-				Very small. Unimak Island region. USCGS.
		F	06	05	-				
7	ZV	eP	13	31	37			(8800)	Confused by microseisms.
	E	e(S)		41	36				
	N	e		41	51				51°N., 159°E. Off south-east
	N	eL	14	02	-				coast of Kamchatka. USCGS.
	E	M		09½	-	19	2		
	N	M		13½	-	19	2½		
		F		55	-				
8	ZV	eP	07	05	16				Confused by microseisms.
	N	eL		11	-				
	E	M		12½	-	16	1½		
	N	M		12½	-	16	4½		
		F		25	-				
10	ZV	eP	05	56	29				Andreanof Islands. USCGS.
10	ZV	eP	19	05	40				Confused by microseisms.
	NE	eL		34	-				54°N., 166°W. Fox Islands.
	N	M		42	-	20	1½		Mag. 5¾ (Berk). USCGS.
		F	20	10	-				

FORM 3718.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
11	N	eL	07	45½	-				Confused by microseisms.
	N	M		46½	-	13	2½		
		F		52	-				
12	N	e	17	40	-				
	N	M		48	-	19	½		Sandwich Islands region. USCGS.
		F		55	-				
12	E	e(SKS)	19	22	35				
	N	eL		47	-				8°S., 111°E., Near south coast
	N	M	20	01	-	23	1½		of Java. USCGS.
	E	M		04	-	24	1		
		F		25	-				
12	N	e	23	12	-				Very small.
		F		25	-				
13	E	e(S)	04	40	38				
	N	e		41	27				52½°N., 160°E. Off southeast
	E	eL		50	-				coast of Kamchatka. USCGS.
	E	M	05	09	-	18	4½		
	N	M		13	-	17	3½		
	Z	M		13	-	17	3		
		F		50	-				Mag. = 6
13	NE	eSS	21	18	-				
	N	eL		50	-				60°S., 151°E. Antarctic Ocean.
	N	M	22	02½	-	26	3		USCGS.
	E	M		23	-	18	1		
	N	M		23	-	20	2		
	Z	M		23	-	18	1½		
		F		55	-				Mag. = 6¼.
15	ZV	eP	04	14	16				9°N., 84°W. Near south coast of
	ZV	e		14	39				Costa Rica. USCGS.
	E	M		45	-	20	½		
		F		55	-				
16	NE	e	19	05	-				Small. Confused by microseisms.
		F		30	-				
17	NE	e	12	18	-				Small. Confused by microseisms.
		F		28	-				
17	NE	e	14	37	-				Confused by strong microseisms.
		F		43	-				North Atlantic foreshock. USCGS.
17	NE	e	14	46	-				Confused by strong microseisms.
	E	M		48	-	16	1½		47°N., 27½°W. North Atlantic
	N	M		48	-	14	2½		Ocean. USCGS.
		F	15	03	-				Mag. = 5¼
17	NE	e	17	44	-				Confused bystrong microseisms.
		F		55	-				North Atlantic Ocean aftershock.
									USCGS.

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DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
18	ZV	e(P)	01	55	52				Confused by microseisms.
	N	M		03	-	14	2½		Central Greece. USCGS.
	E	M		04	-	16	1½		
		F		10	-				Mag. = 5¼
19	ZV,Z	eP	18	41	50	8	2	9910	
	ZV,Z	i		41	54				
	Z	ePP		45	21	9	2		
	NE	eSKS		52	21				23½°N., 122°E. Near east coast
	NE	eS		52	35				of Formosa. Several killed and
	E	e		52	55				slight property damage.
	E	ePS		53	45				Mag. 6½-6¾ (Pas). USCGS.
	N	eSS		58	29				
	E	e		58	54				
	N	eL	19	07	-				
	E	M		17½	-	25	67		
	N	M		17½	-	26	77		
	E	M		27	-	17	44		
	N	M		27	-	17	67		
	Z	M		27	-	16	59		Mag. = 6.6
		F	21	05	-				
19	ZV,Z	iP	21	53	57	4	2	8900	Deep.
	ZV	i		54	08				44½°N., 146°E. Off northeast
	ZV	i		54	17				coast of Hokkaido, Japan. h about
	ZV,NE	iS	22	03	50	6	6(SH)		150 Km. Mag. 6½-6¾ (Pas). USCGS.
	E	M		28	-	24	1		
	N	M		28	-	24	1		
		F		50	-				Mag. = 6½
20	ZV,Z	eP	12	13	45	8	1½	5900	
	Z	e		16	40				
	NE	eS		21	11	14	8		11½°N., 42°W. Atlantic Ocean.
	Z	e		21	16				USCGS.
	E	e		21	35				
	N	eSS		24	49				
	NE	eLQ		26½	-				
	E	M		33	-	20	12		
	N	M		33	-	19	7		
	Z	M		33	-	20	11		Mag. = 6¼
		F	13	35	-				
22	ZV	iP	20	56	56				Dilatation. 43½°N., 146°E.
	N	eL	21	27	-				Near northeast coast of
	N	M		32	-	26	1½		Hokkaido, Japan. USCGS.
		F		45	-				
23	ZV	eP	04	48	38				19°N., 64°W. Puerto Rico. USCGS.
	E	M	05	09	-	20	1		
		F		15	-				
23	ZV,Z	eP	06	08	41			8600	
	NE	eS		18	28				52½°N., 169½°W. Fox Islands,
	E	eL		29	-				Aleutian Islands. Mag. 6¼ (Pas).
	E	M		48½	-	19	6		USCGS.
	N	M		48½	-	20	7		
	Z	M		48½	-	20	7		
		F	07	45	-				Mag. = 6¼

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OCTOBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
23	N	e	08	25	-				
	N	M		37	-	20	½		
		F		50	-				
24	N	eL	01	34	-				14½°S., 167½°E. New Hebrides
	E	M		40	-	22	1		Islands. Mag. 6½(Pas). USCGS.
	N	M		40	-	22	1½		
		F	02	25	-				
24	ZV	eP	02	38	26			2800	
	E	eS		42	47				40°N., 30°E. Turkey. BCIS.
	N	eL		45	-				
	N	M		47½	-	14	2½		
	E	M		47½	-	14	1½		
		F	03	00	-				Mag. = 5½
24	N	eL	20	52	-				Confused by microseisms.
	E	M	21	05½	-	19	1½		29°S., 69°W. Argentina. USCGS.
	N	M		06	-	19	1½		
		F		30	-				
24	N	e(S)	22	07	01				Confused by microseisms.
	N	eSS		12	17				
	NE	eLQ		18	-				25°N., 109½°W. Gulf of
	N	M		25	-	26	9		California.
	N	M		29	-	17	9		Mag. 6(Pas). USCGS.
	E	M		32	-	17	12		
	N	M		32	-	15	7		
		F	23	10	-				Mag. 6¼-6½
25	ZV	e(P)	02	23	13				
	N	e		29	56				
	E	M		35	-	19	2		
	N	M		35	-	19	1½		
		F		50	-				
25	N	eL	05	23	-				Very small. Fox Islands. USCGS.
		F		35	-				
25	N	eL	07	07	-				21½°N., 121°E. Off coast of
	E	M		16½	-	20	1½		Formosa. USCGS.
	N	M		17½	-	20	2		
	Z	M		18½	-	14	2		
		F		30	-				Mag. = 6
25	ZV,Z	eP	10	15	24	6	2½	8450	Compression.
	N	eS		25	04	~~15~~	~~3½(SH)~~		
	E	eScS		25	34				50½°N., 156½°E. Near south coast
	N	ePPS		26	00				of Kamchatka. Mag. 6¾(Pas).
	NE	eSS		30.4	-				6½(Berk). USCGS.
	NE	eL		36	-				
	E	M		51	-	20	16		
	N	M		51	-	20	13		
	Z	M		57½	-	16	7		
		F	12	05	-				Mag. = 6½
26	NE	e	05	30	-				Very small.
		F		55	-				

FORM 3718.

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SEISMOLOGICAL BULLETIN.

OCTOBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZV	e(PKP)	08	45	01				
26	ZV	ePP	14	35	49				
	NE	eSSS		54	27				2°S., 116°E. Borneo. USCGS.
	N	eL	15	09	-				
	N	M		28	-	19	$3\frac{1}{2}$		
	E	M		29	-	18	3		
	Z	M		29	-	18	3		
		F	16	00	-				Mag. = $6\frac{1}{4}$
26	ZV	eP	14	44	32				
27	ZV,Z	iP	22	43	49			(7900)	Confused by strong microseisms.
	ZV	e		44	12				56°N., 161°E. Kamchatka.
	NE	e(S)		53	02				Mag. $6\frac{1}{2}$-$6\frac{3}{4}$(Pas). USCGS.
		F	23	50	-				
30	NE	eS	01	53	12				Confused by strong microseisms.
	N	eL		$55\frac{1}{2}$	-				$35\frac{1}{2}$°N., 27°E. Karpathos Isle
	N	M		58	-	17	15		region, Greece. BCIS.
	E	M		$59\frac{1}{2}$	-	17	7		
		F	02	20	-				Mag. $5\frac{3}{4}$-6
30	NE	eS	07	40	32				Confused by microseisms.
	N	eL		$43\frac{1}{2}$	-				$35\frac{1}{2}$°N., 27°E. Karpathos Isle
	N	M		$45\frac{1}{2}$	-	16	19		region, Greece. BCIS.
	E	M		$46\frac{1}{2}$	-	16	11		
	Z	M		$48\frac{1}{2}$	-	14	6		
		F	08	15	-				Mag. = 6
31	ZV	eP	10	20	09			8980	Confused by microseisms.
	ZV,Z	i		20	12				
	ZV,Z	i		20	20				
	NE	eS		30	13				
	E	ePS		31	05				
	E	eSS		35	36				
	E	eSSS		38	59				
	NE	eL		$41\frac{1}{2}$	-				
	E	M		51	-	23	17		
	N	M		$52\frac{1}{2}$	-	20	7		
	Z	M		$52\frac{1}{2}$	-	20	7		Mag. = $6\frac{1}{2}$
		F	12	15	-				
31	ZV,Z	eP	16	37	06				Confused by strong microseisms.
	E	M	17	08	-	26	4		
		F		25					

All the magnitudes are the "unified magnitudes " denoted by "m".

FORM 3718.

DS85153/1/R94 140 11/57 CL

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER, 1957

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 : (i) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 August 1957	21.2	21.2	0.00	62.5
E.	1 August 1957	21.1	21.1	0.00	52.0
Z.	1 September 1954	11.3	11.4	+0.05	115

(ii) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	N	eL	19	36	-				Confused by microseisms.
	N	M		50	-	24	$3\frac{1}{2}$		13°S., 166½°E. New Hebrides
	E	M		53	-	22	$2\frac{1}{2}$		Islands. USCGS.
		F	20	40	-				Mag. = $6\frac{1}{4}$
√6	ZV	e(P)	13	25	11				
	N	eL		55	-				45°N., 149½°E. Kurile Islands.
	N	M	14	03	-	20	$1\frac{1}{2}$		USCGS.
		F		15	-				
7	N	eL	07	44	-				24°S., 112½°W. South Pacific Ocean.
	N	M	08	10	-	20	$1\frac{1}{2}$		USCGS.
		F		25	-				
10	E	e(S)	00	04	27				Confused by microseisms.
	NE	eL		07	-				
	E	M		08	-	13	2		38.5°N., 23.3°E.
	N	M		08	-	14	$3\frac{1}{2}$		Greece. BCIS.
		F		15					
10	NZ	ePKS	02	59	03				Confused by microseisms.
	NE	eL	03	35	-				7°S., 155½°E. Solomon Islands.
	E	M	04	00	-	19	$2\frac{1}{2}$		USCGS.
	N	M		00	-	20	3		Mag. $6\frac{1}{4}$
		F	-	-	-				overlapped by next shock.
10	N	M	05	10	-	20	$1\frac{1}{2}$		Confused by microseisms.
		F		35	-				Solomon Islands. USCGS.

Form 3717.

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SEISMOLOGICAL BULLETIN.

NOVEMBER, 19 57

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
✓10	ZV	e(PKP)	05	48	20				Confused by microseisms.
	NE	eL	06	35	-				$24\frac{1}{2}$°S., $175\frac{1}{2}$°W. Tonga Islands
	E	M	07	08	-	20	$1\frac{1}{2}$		region. USCGS.
	N	M		08	-	19	3		
		F		30	-				Mag. = $6\frac{1}{4}$
10	E	M	09	16	-	18	$1\frac{1}{2}$		$34\frac{1}{2}$°N., 139°E. Near south coast
	N	M		16	-	18	$1\frac{1}{2}$		of Honshu, Japan. USCGS.
		F		35	-				Mag. = $5\frac{3}{4}$-6.
10	ZV,Z	eP	10	32	52				
	ZV	e(pP)		33	11				8°N., $74\frac{1}{2}$°W. Northern Colombia.
	N	eL		58	-				USCGS.
		F	11	25	-				
10	ZV,Z	eP	19	32	56				Confused by microseisms.
	N	e		42	56				34°N., $139\frac{1}{2}$°E. Near east coast
	N	eL		56	-				of Honshu, Japan. USCGS.
	E	M	20	$09\frac{1}{2}$	-	20	9		
	N	M		$09\frac{1}{2}$	-	20	7		
	Z	M		$19\frac{1}{2}$	-	12	3		
		F	21	15	-				Mag. = $6\frac{1}{4}$
12	N	eL	02	42	-				
	N	M		50	-	20	1		6°S., $149\frac{1}{2}$°E. New Britain. USCGS.
		F	03	00	-				
✓13	ZV,Z	ePKP	17	42	44			17800	
	ZV,Z	e		42	58				33°S., 179°W. Kermadec Islands
	ZV,Z	$ePKP_2$		43	28				region. Mag. $6\frac{1}{2}$-$6\frac{3}{4}$(Pas), $6\frac{3}{4}$(Berk).
	Z	ePP		47	11				USCGS.
	Z	e		47	24				
	Z	ePP		50	23				>180°
	N	eSKKS		54	00				
	Z	ePPP		55	38				>180°
	NE	eSS	18	$07\frac{1}{2}$	-				
	N	eL		39	-				
	Z	M		$54\frac{1}{2}$	-	20	11		
	N	M		$54\frac{1}{2}$	-	21	15		
	E	M		55	-	20	12		
		F	20	20	-				Mag. = $6\frac{3}{4}$
14	N	e	14	25	-				Very small.
		F		33	-				
15	NE	eL	08	34	-				
	N	M		57	-	20	3		$8\frac{1}{2}$°N., 124°E. Mindanao Islands,
	E	M		58	-	19	2		Philippine Islands. USCGS.
	Z	M		58	-	20	$2\frac{1}{2}$		
		F	09	20	-				Mag. = 6
15	ZV,Z	eP	16	42	16	6	1.2	8400	Compression.
	N	eS		51	54				
	E	eSKS		52	16				$51\frac{1}{2}$°N., 158°E. Near east coast
	EN	eL	17	06	-				of Kamchatka. USCGS.
	N	M		11	-	28	$4\frac{1}{2}$		
	N	M		18	-	20	$2\frac{1}{2}$		
	E	M		19	-	20	$3\frac{1}{2}$		
		F		55	-				Mag. = 6

FORM 8718.

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SEISMOLOGICAL BULLETIN.

NOVEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
15	N	e	17	53	-				Very small.
		F	18	03	-				
16	NE	eL	02	30	-				51½°N., 177°W. Andreanof Islands.
	N	M		43	-	19	1		USCGS.
		F	03	05	-				
17	ZV,Z	iP	06	09	05			8500	Depth = 370 Km.
	ZV	epP		10	28				49°N., 148½°E. Sea of Okhotsk.
	E	e(S)		18	24				USCGS.
		F	-	-	-				
17	E	e	07	30	-				Very small.
		F		40	-				
17	NE	eL	16	36	-				
	E	M		45	-	22	2		
	N	M		45	-	20	1½		
		F	17	25	-				
17	N	eL	20	37	-				
	N	M		39½	-	16	1		
		F		43	-				
18	NE	eL	10	52	-				51½°N., 179½°W. Andreanof Islands.
	N	M	11	11	-	18	1½		USCGS.
		F		30	-				
18	ZV	eP	15	25	12				Kurile Islands (Upsala)
19	N	e	04	00	-				Very small. Confused by
		F		15	-				microseisms.
19	ZV	eP	16	25	25				Kurile Islands (Upsala)
20	ZV,ZN	eP	12	52	06			8300	Compression. Confused by
	ZV,ZN	e		52	16				microseisms.
	E	eS	13	01	39				
	EN	e		01	59				54°N., 165°. Unimak Island.
	EN	ePPS		02	37				Mag. 6¼-6½ (Berk). USCGS.
	N	eSS		06.7	-				
	E	eLQ		12	-				
	E	M		26	-	20	10		
	N	M		28	-	19	17		
	Z	M		28	-	20	11		
		F	15	45	-				Mag. 6½
23	ZV	eP	01	10	23				Confused by microseisms.
	NE	eL		36	-				52½°N., 168°W. Fox Islands,
	E	M		46	-	20	1½		Aleutian Islands. USCGS.
	N	M		48	-	20	1½		
		F	02	20	-				Mag. = 6
25	E	eL	19	28	-				
	E	M		36	-	20	1½		
	N	M		39	-	18	1½		
	Z	M		39	-	18	1½		
		F		55	-				

FORM 3718.

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M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
25	NE	e	21	00	-				
	E	M		13	-	20	1		
	N	M		17	-	18	1		
		F		25	-				
25	ZE	ePP	22	53	53				
	ZE	ePS	23	03	09				$1\frac{1}{2}$°S., 116°E. Near east coast of Borneo. USCGS
	NE	eSS		09.0	-				
	N	eL		26	-				
	E	M		47	-	17	3		
	N	M		47	-	18	5		
	Z	M		47	-	17	$2\frac{1}{2}$		
		F	24	20	-				Mag. $6\frac{1}{4}$
26	E	e	00	55	-				Very small.
		F	01	04	-				
26	ZE	ePP	05	28	54				2°S., 116°E. Near east coast of Borneo. USCGS.
	ZE	ePS		38	07				
	NE	eL	06	00	-				
	N	M		19	-	20	3		
	E	M		22	-	18	3		
	Z	M		22	-	17	$1\frac{1}{2}$		
		F		45	-				Mag. = $6-6\frac{1}{4}$
26	ZV,Z	eP	08	20	03			2350	
	E	eS		23	51	8	$2\frac{1}{2}$		$39\frac{1}{4}$°N., $22\frac{3}{4}$°E. Thessaly, Greece foreshock. BCIS
	N	eL		26	-				
	N	M		27	-	12	$4\frac{1}{2}$		
	E	M		29	-	12	$5\frac{1}{2}$		
	Z	M		29	-	11	5		
		F		37	-				Mag. = $5\frac{1}{2}$
26	ZV,Z	eP	11	54	44			2260	
	E	eS		58	26	9	3		
	Z	e		58	33				Thessaly, Greece foreshock. BCIS.
	N	e	12	00	-				
	N	M		$01\frac{1}{2}$	-	13	11		
	E	M		$03\frac{1}{2}$	-	12	4		
	Z	M		$03\frac{1}{2}$	-	10	3		
		F		15	-				Mag. $5\frac{1}{2}-5\frac{3}{4}$
26	NE	eL	12	18	-				$51\frac{1}{2}$°N., 176°W. Andreanof Islands. USCGS.
	E	M		30	-	18	2		
	N	M		30	-	19	$2\frac{1}{2}$		
		F	13	15	-				Mag. = 6
26	N	e	19	55	-				
	N	M	20	06	-	18	$1\frac{1}{2}$		
		F		15	-				
27	ZV,Z	eP	03	12	43	6	$2\frac{1}{2}$	2300	
	ZV,Z	i		12	46				
	NE	eS		16	27	9	$4\frac{1}{2}$(SH)		$39\frac{1}{2}$°N., $22\frac{3}{4}$°E. Thessaly, Greece. BCIS.
	Z	e		16	31				
	N	eL		$18\frac{1}{2}$	-				
	N	M		20	-	12	13		
	E	M		$21\frac{1}{2}$	-	12	$9\frac{1}{2}$		
	Z	M		$21\frac{1}{2}$	-	10	$6\frac{1}{2}$		
		F		40	-				Mag. = $5\frac{3}{4}$

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	ZV,Z	e(PKP)	21	09	43				
	N	M	22	13	-	20	1½		
	E	M		17	-	18	1		
		F	23	00	-				
29	ZV,Z	e(P)	18	03	17				
	ZV	e		03	30				
29	ZV,Z	eP	22	32	35			9600	Dilatation.
	ZV,Z	iP		32	38	4	4		Compression.
	ZV,Z	epP		33	31				Depth = 230 Km.
	ZV,ZNE	ipP		33	34	7	19		
	ZV,Z	eSP		33	56				Amplitudes of pP and pPP are much
	Z	ipPP		37	11	7	22		larger than P or PP.
	ZNE	iSKS		42	47				
	E	i(S)		42	55	18	150(SH)		
	ZE	isS		44	26				
	NE	iPPS		45	04				
	E	isSS		49	39				
	NE	iSSS		51	31				
	ZV,Z	iPKPPKP		58	00				
	ZV,Z	i		59	33				
	E	M	23	11½	-	19	57		
	N	M		11½	-	18	59		
	Z	M		11½	-	18	43		
	Z	i		19	57				Mag. = 7½
		F	26	15	-				
30	ZV	eP	02	11	15				
30	E	eL	22	36	-				
	E	M		46	-	18	3		
	N	M		46	-	20	2½		
	Z	M		49	-	16	2½		
		F	23	25	-				

All the magnitudes are the "unified magnitudes" denoted by "m".

Note

As from 1st January, 1958 these bulletins will be despatched about a fortnight later than hitherto. The December bulletin, for example, will be despatched by the middle of February. It is hoped that this change will enable us to prepare a slightly more complete and up-to-date bulletin and that the delay will not cause any inconvenience.

FORM 3718.

DS86707/1/R94 140 12/5/CL

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M.O. 627

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER, 1957

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 : (I) 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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 August 1957	21.2	21.2	0.00	62.5
E.	1 August 1957	21.1	21.1	0.00	52.0
Z.	1 September 1954	11.3	11.4	+0.05	115

(II) VERTICAL SEISMOGRAPH, PERIOD 1·5 SECS., DIRECT OPTICAL REGISTRATION (ZV.).

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	eP	01	12	34				47½°N., 153½°E. Kurile Islands. USCGS.
✓1	ZV	eP	01	21	08				
	E	eL$_Q$		42	-				47½°N., 154°E. Kurile Islands. USCGS.
	N	eL		51	-				
	E	M	02	03	-	18	1½		
	N	M		03	-	18	2		
		F		35	-				Mag. = 5¾–6
2	ZV	iP	12	52	33				36.6°N., 01.3°E. Region of Tenes, Algeria. BCIS.
	E	eL		56½	-				
	E	M		57½	-	14	1½		
		F	13	07	-				
3	EN	e	22	35	-				Very small. Fox Islands. USCGS.
		F		50	-				
✓4	ZV,Z	iP	03	48	04	5	21	7150	NEe, Compression. 45½°N., 99½°E. Outer Mongolia. Mag. 7.9 (Pas). USCGS.
	ZNE	i		48	12				
	NE	iPcP		48	33				
	Z	iPP		50	36	8	20		
	Z	iPPP		52	00				
	NE	iS		56	39	20	130(E)		
	E	eSS	04	00	52				Very confused record.
	E	M		17	-	(14)	(360)		
		F	08	40	-				Mag. = 7.7
4	ZV	eP	05	11	12				

Form 3717.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 627

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

DECEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	NE	e	09	42	-				Very small. Outer Mongolia aftershock. USCGS.
		F	10	00	-				
4	N	eL	11	53	-				
	E	M		59½	-	12	2		45½°N., 100½°E. Outer Mongolia aftershock. USCGS.
	N	M		59½	-	12	1½		
	Z	M		59½	-	12	3		
		F	12	10	-				
4	ZV	eP	13	30	35				
	NE	eL		51	-				Outer Mongolia aftershock. USCGS.
	E	M		57	-	15	3		
	N	M		57½	-	14	4		
	Z	M	14	00	-	12	3		
		F		25	-				
4	ZV	eP	22	27	18				Small. Outer Mongolia aftershock. USCGS.
	N	M		56	-				
		F	23	05	-				
5	N	eL	14	08	-				
	N	M		10½	-	15	2½		
	E	M		11	-	16	1½		
		F		15	-				
5	N	M	14	19½	-	17	1		71.4°N., 6.1°E. Arctic Ocean, east of Jan Mayen. (Upsala)
	E	M		20	-	18	1½		
		F		25	-				
5	N	eL	18	44	-				
	E	M		49	-	14	1½		Outer Mongolia aftershock. USCGS.
	N	M		49	-	14	1½		
	Z	M		49	-	13	1½		
		F	19	00	-				
6	ZV	eP	04	01	43				45°N., 150½°E. Kurile Islands. USCGS.
6	ZV	eP	08	48	35				44½°N., 150½°E. Kurile Islands. USCGS.
	N	M		30	-	20	1½		
		F		45	-				
6	NE	e	23	40	-				Very small.
		F		55	-				
7	NE	e	14	45	-				Small. Confused by microseisms. Outer Mongolia aftershock. USCGS.
		F	15	00	-				
9	NE	eL	22	35	-				Confused by strong microseisms. 65½°N., 133°W. Yukon. USCGS.
	N	M		43	-	17	4		
	E	M		43	-	17	2½		
		F		55	-				Mag. = 6

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

DECEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
✓10	N	ePKS	14	58	34				Confused by strong microseisms.
	NE	eL	15	31	-				6°S., 154½°E. Solomon Islands.
	E	M		58½	-	19	13		Mag. = 6¾(Pas), 6½-6¾(Berk).
	N	M		59½	-	20	13		USCGS.
	Z	M		59½	-	16	7		
		F	17	10	-				Mag. = 6.7
13	ZV,Z	iP	01	43	42				Compression. Confused by strong
	ZV,Z	ipP		43	57				microseisms. Depth = 60 Km.
	ZV	e		44	07				7°N., 76°W. Colombia. Mag 6¾(Pas).
		F	-	-	-				USCGS.
✓13	ZV,ZE	iP	01	52	23	6	15	4240	Compression. Confused by strong
	ZV	i		53	16				microseisms.
	ZE	iPP		53	48	8	17		PPH 10 sec. 16 u.
	N	iS		58	14				34½°N., 48°E. Iran. Major damage.
	ZV,Z	i		58	26				1062 killed, many injured.
	N	eSS	02	01	16				Mag. 7¼(Pas). USCGS.
	N	eL		02	-				
	N	M		09½	-	18	75		
	E	M		11½	-	18	71		
	Z	M		14	-	13	37		
		F	03	45	-				Mag. = 7.0
✓13	NE	e	20	48	20				Confused by microseisms.
	NE	eL	21	00	-				52½°N., 170°W. Fox Islands,
	E	M		18	-	20	5		Aleutian Islands. USCGS.
	N	M		18	-	20	6		
	Z	M		18	-	18	3		
		F		40	-				Mag. = 6-6¼
✓16	NE	eL	18	00	-				Confused by microseisms.
	E	M		06½	-	19	6½		50°N., 127°W. Vancouver Island.
	N	M		06½	-	19	5½		USCGS.
	Z	M		07	-	18	4½		
		F		35	-				Mag. = 6
16	N	eL	23	24	-				Confused by microseisms.
	N	M		30	-	18	2		34½°N., 48°E. Iran aftershock.
		F		40	-				USCGS.
✓17	ZV	e(P)	05	21	53			8300	Confused by microseisms.
	ZV,Z	e(pP)		22	03				
	E	eS		31	26				43½°N., 162°E. Near east coast of
	N	e		31	49				Kamchatka. Mag. 6¾(Pas). USCGS.
	E	eL		43	-				
	N	eLR		48	-				
	E	M		56½	-	20	9½		
	N	M		58	-	20	8½		
	E	M	06	04	-	15	13		
	N	M		05½	-	15	18		
	Z	M		05½	-	15	12		
		F	08	25	-				Mag. = 6½
✓17	ZV,Z	ePKP	14	09	28			15000	Confused by microseisms.
	ZV,Z	iPKP		09	36	7	27		Depth = 130 Km.
	ZV,Z	i		09	57				
	ZV,Z	i(pPKP)		10	10				

FORM 3718

contd.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

DECEMBER, 1957

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
√17	ZN	i(pPP)	14	12	34	10	15		pPPH 16 sec. 15 μ
	ZN	iPKS		13	07				
	N	i		13	32				
	Z	i		13	52				12°S., 167°E. Santa Cruz Islands.
	ZN	i		15	58				Mag. 7¾(Pas). USCGS.
	N	iSP		22	38				
	ZN	iPPS		24	45				
	E	eLQ		47	-				
	E	M	15	04	-	22	45		
	N	M		06	-	22	54		
	Z	M		10	-	20	22		
		F	17	30	-				Mag. = 7½
20	N	eL	12	00	-				Confused by microseisms.
	E	M		19	-	20	1½		30½°S., 71°W. Central Chile.
	N	M		20	-	20	2		USCGS.
		F		40	-				Mag. = 6
21	ZV	eP	16	08	17				36°N., 2°E. Algeria. USCGS.
21	ZV	eP	18	57	11				36°N., 2°E. Algeria. USCGS.
√23	NE	eS	12	45	15	16	5½(SH)		
	NE	eL		47.0	-				35°N., 36½°W. Atlantic Ocean.
	E	M		48½	-	18	11		USCGS.
	N	M		48½	-	20	25		
	Z	M		50	-	14	12		
		F	13	30	-				Mag. = 6.0
√25	ZV	eP	16	36	42				Confused by microseisms.
	NE	eL		53	-				
	E	M	17	04	-	20	2		10½°N., 62½°W. Venezuela. USCGS.
	N	M		04	-	20	3		
		F		35	-				Mag. = 6
26	ZV	ePKP	12	29	14				32½°S., 178°W. Kermadec Islands. USCGS.
26	ZV	e(P)	12	32	32				Confused by strong microseisms.
	ZV	e		32	36				41½°N., 127°W. Off coast of
		F	13	15	-				California. USCGS.
27	NE	eL	07	56½	-				
	E	M		57½	-	18	2		
	N	M		57½	-	20	1½		
		F	08	05	-				
√28	E	ePS	15	01	36				
	N	eL		15	-				18°S., 64½°W. Bolivia. USCGS.
	E	M		25	-	20	3		
	N	M		25	-	20	3		
		F	16	10	-				Mag. = 6
30	NE	eL	14	48	-				Near north coast of Luzon,
	E	M		58	-	20	1½		Philippine Islands. USCGS.
	N	M		58	—	18	2		
		F	15	15	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

DECEMBER, 19 57

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
31	ZV,ZNE	eP	10	26	05	7	3½	2270	PH 8 sec. 3 μ
	NE	eS		29	47				
	NE	eL		29½	-				58°N., 32°W. North Atlantic Ocean. USCGS.
	N	M		32	-	20	5		
	E	M		32½	-	16	6		
	Z	M		32½	-	16	4		
		F	11	05	-				Mag. = 5.7
31	Z	eP	12	02	10				Very small. North Atlantic Ocean aftershock.
	N	eL		06½	-				
		F		18	-				
31	Z	eP	13	11	48				
	N	eL		16½	-				North Atlantic Ocean aftershock.
	N	M		17½	-	19	1½		
	E	M		18	-	17	2		
	Z	M		18	-	16	2½		
		F		35	-				Mag. = 5¼
31	ZV,Z	iPKP	14	48	23	5	2½	18800	Compression.
	ZV,Z	iPKP2		49	37				
	ZV,Z	iPP		53	27	6	3½		Compression.
	NE	e	15	04	07				
	N	eL		54	-				45°S., 165½°E. Off coast of South Island, New Zealand. USCGS.
	E	M	16	07	-	20	3½		
	N	M		07	-	21	4½		
	Z	M		11	-	20	3½		
		F		40	-				Mag. = 6½

All the magnitudes are the "unified magnitudes" denoted by "m".

FORM 3718

DS88235/1/R94 140,2/58 CL

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