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METEOROLOGICAL OFFICE, EDINBURGH 28 MAR 1962 R.6.

M.O.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JANUARY, 1962

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	02	52	58				52.3°N., 177.9°E. Rat Islands. USCGS.
1	ZV,Z	iP	23	52	15	5	1.0	8500	52.4°N.,177.7°E.
	NE	eS	24	01	57	12	1.5(H)		Rat Islands, Aleutian Islands.
	E	M		30½	-	18	1½		USCGS.
	N	M		31	-	18	1½		
		F	25	10	-				Mag.: M = 5½
2	N	e(S)	12	34	37				80.0°N., 24.3°E. h about 48 km.
	E	eL		36	-				Svalbard region. USCGS.
	E	M		39½	-	20	2½		
	N	M		40	-	20	3		
		F	13	15	-				Mag.: M = 4¾-5.
3	ZV	eP	18	04	54				52.2°N., 177.5°E. Rat Islands. USCGS.
4	ZV	iPKP	00	10	14				21.5°S., 169.9°E. Loyalty Islands. USCGS.
4	ZV,Z	iP	04	48	21			9660	Confused by microseisms.
	N	eSKS		58	41				
	NE	eS		58	54	10	7.0(H)		33.9°N., 135.2°E. h about 56 km.
	NE	e		59	16				Near Shikoku, Japan.
	NE	eL	05	10½	-				USCGS.
	E	M		22	-	30	16		
	N	M		22	-	30	14		
	E	M		30	-	20	5½		
	N	M		33	-	18	11		
	Z	M		33	-	18	4		
		F	06	15	-				Mag.: M = 6¼

Form 3717.

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M.O. 120

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

JANUARY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
5	NE	eL	01	23	-				Confused by microseisms.
	E	M		43	-	21	3½		15.5°S., 177.7°W. Fiji Islands.
	N	M		43	-	21	3		region. USCGS.
		F	02	30	-				Mag.: M = 6.
5	ZV	iP	04	36	00				36.4°N., 71.2°E. h about 182 km. Hindu Kush. USCGS.
7	ZV,Z	iP	10	06	40			1800	Compression. Confused by strong
	ZV	i		06	44				microseisms.
	E	eS		09	38	9	3.8(H)		43.4°N., 17.4°E. Yugoslavia,
	NE	eL		10	-				2 killed, 19 injured and heavy
	E	M		11½	-	14	24		damage. USCGS.
	N	M		11½	-	14	52		
		F	10	45	-				Mag.: M = 6.
8	ZV,Z	iP	01	10	51	6	4.4	7180	Compression.
	E	eS		19	24	16	8.2(H)		
	NE	eSS		23	30				18.5°N., 70.5°W. h about 63 km.
	N	eL		27	-				Near south coast of Dominican
	E	M		31½	-	24	33		Republic. 1 killed, 6 injured and
	N	M		31½	-	26	16		damage to property. USCGS.
	E	M		38	-	18	17		
	N	M		38	-	18	17		
	Z	M		38	-	18	12		
		F	02	30	-				Mag.: M = 6.3
8	ZV	iPKP	06	02	47				24.2°S., 177.7°W. Tonga Islands. USCGS.
9	ZV,Z	iP	12	52	58				Confused by strong microseisms.
	ZV	i		53	19				42.9°N., 144.8°E. h about 78 km.
	NE	eL	13	16	-				Near Hokkaido, Japan. USCGS.
	E	M		29	-	24	4		
	N	M		29	-	24	5		
		F	14	10	-				Mag.: M = 6
11	ZV	iP	03	12	16				28.1°N., 84.8°E. Nepal. USCGS.
11	ZV	eP	05	08	24			1700	Confused by very strong
	E	eS		11	14	14	6.4		microseisms. 43.5°N., 17.7°E.
	NE	eL		12	-				Near coast of Yugoslavia.
	E	M		13½	-	15	29		2 killed, 20 injured and moderate
	N	M		13½	-	15	72		property damage.
		F	06	00	-				Mag.: M = 6¼.
16	NE	eL	12	45	-				Confused by very strong
	N	M	13	09	-	20	5½		microseisms. 30.5°S., 177.9°W.
		F		50	-				Kermadec Islands. USCGS.
17	NE	e	16	25	-				Small. Confused by strong
		F	17	10	-				microseisms. 43°N., 128.3°E.
									Molucca Passage. USCGS.
19	ZV	e(P)	19	42	36			2370	Confused by microseisms.
	E	eS		46	26	17	5.8(H)		38.5°N., 22.1°E. h about 38 km.
	N	M		51	-	16	7		Greece. USCGS.
	E	M		51½	-	16	6½		
		F	20	15	-				Mag.: M = 5

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

JANUARY, 19 62

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
19	NE	eL	22	29	-				Confused by microseisms.
	N	M		30½	-	16	5½		38.2°N., 22.1°E. h about 60 km.
	E	M		32	-	16	2½		Greece. USCGS.
		F		40	-				
21	NE	e	02	58	-				Small. Confused by microseisms.
		F	03	10	-				43.2°N., 16.6°E. Yugoslavia.
									USCGS.
22	NE	e	07	50	-				Confused by strong microseisms.
	E	M		59	-	20	3		52.4°N., 100.0°E. Lake Baikal
	N	M		59	-	20	3		region. USCGS.
		F	08	15	-				
23	NE	e	17	38	-				Confused by strong microseisms.
	N	M		39½	-	16	2½		44.6°N., 12.3°E. h about 61 km.
		F		45	-				Italy. USCGS.
26	ZV,Z	iP	08	22	44	6	3.9	2680	Compression. PH 10 sec. 3.2 μ
	ZV,Z	ePP		23	19				
	NE	eS		26	55	13	7.3(H)		35.5°N., 22.5°E. h about 50 km.
	N	eL		29½	-				Mediterranean Sea. BCIS
	E	M		31½	-	20	16		
	N	M		31½	-	20	40		
		F	09	05	-				Mag.: M = 5.6
27	NE	e	23	45	-				Small. Confused by microseisms.
		F	24	10	-				31.0°N., 114.3°W. Gulf of
									California. USCGS.
28	ZV,Z	iPKP	05	59	44				Compression.
	ZV,Z	i		59	55				
	NE	eL	06	49	-				
	E	M	07	03	-	20	2½		
	N	M		03	-	20	2½		
		F		50	-				
31	ZV	eP	00	14	44				
	ZV	e		14	48				

FORM 3718

DS62236/1 R94 140 3/62 XL

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METEOROLOGICAL OFFICE, EDINBURGH 18 APR 1962

M.O. 720

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON. R.6.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY, 1962

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.	$\frac{Ah}{\pi l}$ sec.$^{-1}$
N.	1 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	iP	08	08	36				49.9°N., 78.2°E. Kazakh S.S.R. USCGS.
2	NE	eL	17	55	-				Small. 43.7°N., 148.5°E.
		F	18	20	-				Kurile Islands. USCGS.
3	NE	ePPS	01	07	56				
	NE	e		31	-				1.2°S., 137.8°E. North of New
	E	M		53½	-	19	9		Guinea. USCGS.
	N	M		53½	-	18	13		
	Z	M		53½	-	18	9		
		F	04	15	-				Mag.: M = 6½
4	ZV,Z	i(P)	21	39	05			6100	Dilatation. Confused by strong microseisms.
	NE	eS		46	43				
	NE	eL		52½	-				0.5°S., 20.2°W. Atlantic Ocean.
	N	M	22	04½	-	18	5		USCGS.
	E	M		05½	-	18	6		
		F		30	-				Mag.: M = 5¾
5	ZV	iP	23	08	18				Depth = 134 km. 35.9°N., 138.8°E.
	ZV	ipP		08	52				Honshu, Japan. USCGS.
6	NE	e	02	45	-				Very small. 29.5°N., 130.4°E.
	NE	F	03	00	-				Ryukyu Islands. USCGS.
8	NE	eL	12	35	-				Confused by microseisms.
	N	M		59½	-	24	4		3.2°S., 141.3°E.
	N	M	13	07½	-	20	3		New Guinea. USCGS.
		F		25	-				

Form 3717.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

FEBRUARY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
11	NE	eL	19	48	-				Confused by very strong
	N	M	20	05	-	30	9		microseisms. 4.5°S., 153.5°E.
		F		35	-				New Ireland region. USCGS.
14	ZV,Z	eP	06	50	23			12300	Confused by microseisms.
	ZNE	ePP		54	59	12	7.7		PPH 22 sec. 14.8 μ
	E	eSKS	07	00	59				
	N	eS		02	17	20	13.0 (H)		38.1°S., 73.1°W. h about 44 km.
	NE	iPS		04	29				Near coast of Chile. Moderate
	N	eSS		10	24				property damage. USCGS.
	N	eSSS		14	29				
	NE	eL		22	-				
	E	M		35	-	24	156		
	N	M		35	-	24	87		
	N	M		40	-	20	62		
	E	M		42½	-	20	100		
	Z	M		43	-	20	30		
		F	10	25	-				Mag.: M = 7.5
18	ZV	e(P)	07	04	06				
	NE	eL		08	-				
	N	M		10½	-	20	3½		
	E	M		11½	-	12	6½		
	N	M		11½	-	12	4½		
		F		30	-				
18	ZV,Z	eP	17	36	45	5	1.5	8400	Dilatation. Depth = 75 km.
	ZV,Z	iPcP		36	59				
	ZV,Z	ipP		37	05				8.1°N., 74.6°W., Northern
	NE	eS		46	18				Colombia. USCGS.
	NE	eL		56½	-				
	N	M	18	06	-	20	1½		
	E	M		07½	-	20	2½		
		F		30	-				Mag.: M = 5¾-6
20	NE	eL	09	55	-				
	E	M	10	12	-	20	1½		6.8°N., 92.5°E. Nicobar Islands.
	N	M		12½	-	20	1½		USCGS.
		F		30	-				
20	ZV,Z	i(PKP$_2$)	10	26	33				25.9°S., 178.4°E. h about 655 km.
									Fiji Islands. USCGS.
20	ZV,Z	iP	16	17	56	6	1.8	9000	Compression.
	NE	eS		28	00	12	2.6(H)		43.0°N., 144.9°E. h about 55 km.
	N	ePS		28	30				Near Hokkaido, Japan. USCGS.
	E	eL		42	-				
	E	M		57½	-	20	3½		
	N	M		57½	-	20	4½		
		F	17	35	-				Mag.: M = 6.0
20	ZV	eP	22	14	15			8200	
	NE	eS		23	47				
	E	ePS		24	25				
	E	eSSS		32	15				
	N	eL		39	-				
	E	M		45	-	25	16		
	N	M		45	-	25	30		
	N	M		50	-	20	9		

FORM 3718

contd.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

FEBRUARY, 1962

DATE	COMPT.	PHASE	G.M.T.			PERIOD	AMPLITUDE	Δ	REMARKS
contd.			h.	m.	s.	sec.	μ	km.	
20	E	M	22	50	-	20	11		
		F	24	40	-				Mag.: M = 6-6¼
23	NE	e	21	24	-				
	N	M		38	-	20	3		
	E	M		39	-	20	2		
		F	22	10	-				
27	ZV	iP	05	49	52				Compression. 36.6°N., 71.4°E. Hindu Kush. USCGS.
27	E	ePS	13	09	10				Confused by microseisms.
	N	eSS		15	00				
	N	eL		25	-				37.4°S., 73.2°W. h about 40 km.
	E	M		43	-	20	8½		Near coast of Chile. USCGS.
	N	M		43	-	20	7		
	Z	M		43	-	20	4½		
		F	14	55	-				Mag.: M = 6¼

FORM 3718

DS 63015/1/R72 1LO 4/62 XL

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International Seismological Centre From the ISC collection scanned by SISMOS

METEOROLOGICAL OFFICE, EDINBURGH
18 MAY 1962 R6.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH, 1962

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

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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.$^{-1}$
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E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

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DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1	ZV,Z	eP	18	47	32				43.0°N., 146.2°E. Hokkaido, Japan. USCGS.
1	NE	eL	22	28	-				Small. 37.3°N., 4.9°W. Spain. USCGS.
		F		35	-				
2	NE	eSS	00	22	18				
	NE	eL		40	-				
	N	M		59½	-	24	4½		14.0°S., 172.5°E. h about 73 km. Samoa Islands. USCGS.
	E	M	01	00½	-	24	4		
	E	M		10½	-	19	2		
	N	M		10½	-	19	2½		
		F	02	05	-				Mag.: M = 6
2	NE	eL	13	53	-				
	E	M	14	01	-	28	3½		5.4°N., 126.5°E. Off coast of Mindanao, P.I. USCGS.
	N	M		01	-	30	4		
		F		25	-				
3	N	eL	13	03	-				7.4°N., 126.5°E. h about 90 km. Near coast of Mindanao, P.I. USCGS.
	E	M		21	-	20	1½		
	N	M		21	-	20	3		
		F		45	-				
6	ZV	iP	06	08	04			9100	
	ZV,Z	i		08	19				13.7°N., 93.7°E. Andaman Islands. USCGS.
	E	eS		18	15				
	NE	eL		33	-				
	E	M		48	-	20	2		
	N	M		48	-	20	1½		
		F	07	20	-				

Form 3717.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

MARCH, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
7	NE	e	01	50	-				Small.
		F		60	-				
7	NE	eL	02	15½	-				62.2°N., 26.6°W. h about 43 km.
	E	M		17½	-	16	2		Southwest of Iceland. USCGS.
	N	M		17½	-	16	2½		
		F		25	-				
7	ZV	iP	11	13	56				Compression. Confused by very strong microseisms.
	ZV	iPP		18	19	6	5.4		19.3°N., 145.3°E. h about 680 km.
		F	12	55	-				Mariana Islands. USCGS.
									Mag.: M = 6¾
8	NE	eL	22	04	-				Confused by strong microseisms.
	E	M		16	-	20	2		3.4°S., 29.2°E. Republic of
	N	M		17	-	20	4		Congo. USCGS.
		F		40	-				Mag.: M = 5½
9	ZV	iPKP	07	16	04				18.4°S., 178.7°W. h about 472 km. Fiji Islands. USCGS.
9	NE	e	23	10	-				Small. 5.8°S., 146.4°E.
		F		30	-				Near New Guinea. USCGS.
11	NE	e	16	05	-				Small. 52.3°N., 178.0°E.
		F		20	-				Rat Islands. USCGS.
11	NE	eS	19	44	09	12	2.9 (H)		9.0°N., 126.7°E. Near coast of
	NE	eL	20	01½	-				Mindanao, P.I. USCGS.
	E	M		27½	-	20	10½		
	N	M		27½	-	20	15		
	Z	M		27½	-	20	10		
		F	21	25	-				Mag.: M = 6.6
12	ZV	eP	09	53	41			8900	9.0°N., 83.0°W. h about 113 km.
	N	eS	10	03	35				Costa Rica. USCGS.
	N	eL		15	-				
	E	M		23	-	20	2½		
	N	M		24	-	20	1½		
		F		50	-				
12	ZV,Z	iP	11	52	24	6	3.4	8900	Compression. Confused by microseisms.
	NE	eS	12	02	21	14	6.9 (H)		EP 10 sec. 2.6 μ
	E	eSS		07	39				8.1°N., 83.0°W. h about 58 km.
	N	eL		14	-				Near coast of Panama and Costa
	E	eLR		17	-				Rica. USCGS.
	E	M		21½	-	22	30		
	N	M		21½	-	21	12		
	Z	M		21½	-	21	13		
		F	13	50	-				Mag.: M = 6.4
15	ZV	e(P)	02	03	29				45.7°N., 151.3°E. Kurile Islands. USCGS.
16	NE	e	20	50	-				Very small. 10.8°S., 165.7°E.
		F	21	30	-				Santa Cruz Islands. USCGS.

FORM 3718

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

MARCH, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
17	ZV,Z	iP	20	56	54	6	6.9	6000	PH 12 sec. 6.1 μ
	ZV,Z	i		56	57				
	Z	iPP		58	54	6	2.9		10.6°N., 43.7°W. h about 25 km.
	Z	iPPP		59	52				North Atlantic Ocean. USCGS.
	NE	iS	21	04	26	15	59 (H)		
	E	eSS		08	04				
	NE	eL		09½	-				
	E	M		16½	-	19	44		
	N	M		16½	-	19	34		
	Z	M		16½	-	19	40		
		F	23	55	-				Mag.: M = 6.8
18	NE	e	04	05	-				
	N	M		33	-	20	2		
	E	M		34	-	20	1½		
		F	05	15	-				
18	ZV,Z	iP	15	34	39	6	25	2000	Confused by microseisms.
	NE	iS		37	57	9	11.2 (H)		40.7°N., 19.6°E. h = 33 km (BCIS)
	NE	eL		39	-				Southern Albania, 15 dead, 154
	E	M		41½	-	20	39		injured, moderate property
	N	M		41½	-	18	88		damage. USCGS.
	Z	M		44	-	14	43		
		F	16	40	-				Mag.: M = 6.0
18	ZV	e (P)	20	31	33				Confused by microseisms.
	NE	eL		54	-				23.7°N., 114.5°E. h about 43 km.
	E	M	21	07	-	20	4½		Kwangtung Province, China. USCGS.
	N	M		07	-	19	5½		
		F		40	-				Mag.: M = 6
19	NE	e	06	45	-				Small. 0.3°N., 123.5°E.
		F	07	15	-				Celebes Islands. USCGS.
21	ZV	ePP	23	15	50				5.9°S., 113.0°E. h about 631 km.
	ZV	e		15	59				Java Sea. USCGS.
22	Z	ePP	15	33	39	8	1.4		PPH 20 sec. 1.9 μ
	Z	ePPP		36	16				
	NE	ePS		43	33				3.2°S., 142.3°E. Near north coast
	NE	eL	16	03	-				of New Guinea. USCGS.
	E	M		28	-	20	10		
	N	M		28	-	20	14		
	Z	M		28	-	20	8		
		F	18	10	-				Mag.: M = 6¾
24	ZV,Z	e (PKP)	13	18	26				5.7°S., 145.0°E. h about 111 km.
	N	M	14	15	-	20	3		Near north coast of New Guinea.
	E	M		17	-	20	2		USCGS.
		F	15	20	-				
26	ZV,Z	e (P)	12	14	21				Confused by microseisms.
	NE	eS		21	54	16	2.8 (H)		0.5°S., 19.2°W.
	NE	eL		28	-				Mid-Atlantic Ocean.
	E	M		36½	-	20	3½		USCGS.
	N	M		36	-	20	3		
		F	13	20	-				Mag.: M = 5.4

FORM 3718

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

MARCH, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
26	NE	eL	17	24	-				40.6°S., 73.3°W. Near coast of
	E	M		36½	-	20	4½		Southern Chile. USCGS.
	N	M		37	-	20	3½		
		F	18	20	-				Mag.: M = 6
28	ZV	iP	01	00	53				36.6°N., 71.6°E. Hindu Kush. USCGS.
29	NE	e	20	55	-				Small. 0.5°S., 127.4°E.
		F	21	35	-				Halmahera region. USCGS.
31	NE	eL	08	32	-				9.8°N., 121.6°E. h about 156 km.
	E	M		42	-	20	1½		Negros Island, P.I. USCGS.
	N	M		42	-	20	2		
		F	09	15	-				

FORM 3718

DS64138/1/R72 140 5/62XL

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METEOROLOGICAL OFFICE, EDINBURGH 27 JUN 1962 R.6

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL, 1962

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.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	iP	00	53	37				Confused by microseisms.
	NE	eL	01	07	-				33.6°N., 59.0°E. East Iran.
	N	M		17½	-	16	5		Two killed and 3 injured. USCGS.
	E	M		18	-	16	2½		
		F		35	-				Mag.: M = 5½
1	NE	eL	05	39	-				Small. 41.9°N., 143.4°E.
		F	06	10	-				Near Hokkaido, Japan. USCGS.
1	NE	e	13	05	-				Small. 4.2°S., 143.6°E.
		F		35	-				Near New Guinea. USCGS.
1	ZV	ePKP	15	56	37				17.9°S., 167.2°E. New Hebrides. USCGS.
4	NE	eL	14	36	-				Confused by strong microseisms.
	E	M		43½	-	22	3½		8.0°N., 83.0°W. Near Panama and
	N	M		44	-	22	3		Costa Rica. USCGS.
		F	15	15	-				
10	ZV	iP	10	43	48				Compression. 51.1°N., 157.7°E.
									Near Kamchatka. USCGS.
10	ZV	iPKP	17	26	10				16.4°S., 175.3°W. h about 330 km.
									Fiji Islands. USCGS.
10	ZV,Z	iP	21	41	43	5	7.2	2200	Compression. PH 6 sec. 6.8 μ
	NE	eS		45	20	13	18.8(H)		
	NE	eL		47	-				37.9°N., 20.1°E.
	E	M		49½	-	16	22		Ionian Sea. USCGS.
	N	M		49½	-	16	48		
	Z	M		49½	-	14	14		
		F	23	05	-				Mag.: M = 5¾

Form 3717.

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

International Seismological Centre

SEISMOLOGICAL BULLETIN

APRIL, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
10	ZV	eP	22	15	21				38.1°N., 20.4°E.
	ZV	i		15	26				Ionian Sea. USCGS.
11	ZV	iP	09	42	36				36.5°N., 71.6°E. h about 97 km.
									Hindu Kush. USCGS.
11	ZV,Z	iP	10	52	03	5	1.0	2150	
	N	eS		55	34	14	3.0(H)		38.2°N., 20.0°E. h about 43 km.
	NE	i		55	46				Ionian Sea. USCGS.
	NE	eL		58	-				
	E	M		59½	-	16	3		
	N	M		59½	-	16	7½		
		F	11	25	-				Mag.: M = 4½
12	ZV,Z	iP	01	05	16	6	8.8	9300	Compression.
	ZV,Z	i		05	18				PH 16 sec. 6.1 μ
	Z	ePP		08	32	8	3.2		PPH 16 sec. 5.0 μ
	N	eS		15	32	20	63(H)		
	NE	i		15	45				38.2°N., 142.3°E. h about 68 km.
	N	eSS		21	18				Near east coast of Honshu, Japan.
	NE	eL		31	-				USCGS.
	E	M		38½	-	28	135		
	N	M		38½	-	29	113		
	E	M		45	-	19	98		
	N	M		46½	-	20	90		
	Z	M		47	-	19	55		
		F	05	10	-				Mag.: M = 7.1
12	ZV	eP	05	28	39				
	NE	eL		56	-				38.2°N., 142.5°E. Near coast of
	E	M	06	09½	-	20	1½		Honshu, Japan. USCGS.
	N	M		09½	-	20	1		
		F		35	-				
12	ZV,NE	e	13	41½	-				Very small. 45°N., 5.5°E.
		F		44					Grenoble region, France. BCIS.
12	NE	e	17	05	-				Small.
		F		30	-				
13	NE	e	19	00	-				Small. 49.1°N., 87.2°E.
		F		20	-				Kazakh S.S.R. USCGS.
15	ZV	eP	18	17	57				2.7°S., 11.6°W. Ascension Island region. USCGS.
15	ZV,Z	eP	18	54	49				2.9°S., 11.9°W. Ascension Island
	E	M	19	15	-	16	2½		region. USCGS.
		F		40	-				
16	NE	e	00	23	-				Small. 38.2°N., 20.4°E.
		F		35	-				Ionian Sea. USCGS.
16	ZV,Z	iP	13	33	07				30.6°N., 140.6°E. h about 176 km.
	NE	e(S)		43	53				South of Honshu, Japan. USCGS.

FORM 3718

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

APRIL, 1962.

International Seismological Centre

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
16	NE	eL	18	42	-				44.8°S., 37.2°E. Prince Edward
	N	M	19	03	-	20	1½		Islands. USCGS.
	E	M		04	-	20	1		
		F		25	-				
17	ZV,Z	eP	10	07	27				
	NE	eL		11½	-				42.3°N., 17.3°E. Adriatic Sea.
	E	M		13½	-	15	1½		USCGS.
	N	M		13½	-	14	2½		
		F	10	25	-				
17	ZV,Z	eP	11	38	25			2160	
	NE	eS		41	57	16	1.5(H)		37.8°N., 19.9°E.
	NE	eL		42	-				Ionian Sea. USCGS.
	N	M		47½	-	14	2½		
	E	M		48	-	16	2½		
		F	12	10	-				Mag.: M = 4
17	ZV	iP	21	06	41				38.4°N., 142.2°E. h about 110 km.
	N	M		48	-	20	1		Near coast of Honshu, Japan.
		F	22	05	-				USCGS.
17	ZV	iP	22	44	22			6100	
	NE	eS		51	58	18	4.0(H)		1.5°S., 14.9°W. Mid-Atlantic
	NE	eL	23	00	-				Ocean. USCGS.
	E	M		03½	-	20	4½		
	N	M		03½	-	20	4		
	Z	M		05	-	20	2		
		F		50	-				Mag.: M = 5.6
18	NE	e	10	55	-				Very small. 38.1°N., 20.5°E.
		F	11	07	-				Ionian Sea. USCGS.
18	ZV,Z	iP	19	27	39	5	1.0	10000	Compression.
	N	eSKS		38	05				
	NE	eS		38	29	15	5.1(H)		10.0°S., 79.0°W. h about 39 km.
	ZNE	ePS		39	31				Off coast of Peru.
	NE	ePPS		40	17				USCGS.
	E	eSS		44	37				
	NE	eL		53½	-				
	E	M	20	05	-	21	17		
	N	M		05	-	21	9		
	Z	M		05	-	21	9		
		F	22	10	-				Mag.: M = 6¼
19	ZV	eP	02	10	25				38.5°N., 20.5°E.
	ZV	i		10	31				Ionian Sea. USCGS.
		F		25	-				
19	NE	e	03	25	-				Very small.
		F		45	-				
19	NE	e	08	32	-				Very small.
		F		40	-				
19	NE	e	12	09	—				Small. 38.6°N., 44.0°E.
		F		30	—				Eastern Turkey. USCGS.

FORM 3718

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

APRIL, 1942.

International Seismological Centre

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
19	ZV,Z	eP	23	25	43	6	0.8	6300	
	ZV,Z	e		26	43				69.8°N., 138.6°E. h about 0 km.
	NE	eS		33	35				Siberia. USCGS.
	N	M		50½	-	22	4½		
	E	M		51	-	20	4½		
		F	24	55	-				Mag.: M = 5½
20	ZV,Z	iP	05	58	23	5	5.4	7000	Compression.
	ZV,Z	i		58	36				
	ZV,Z	i		58	50				20.6°N., 72.2°W. Near north coast
	NE	iS	06	06	49	12	8.1 (H)		of Haiti.
	E	i		07	25				Minor damage. USCGS.
	NE	eSS		10	45				
	N	eLQ	06	14	-				
	E	eLR		17	-				
	Z	M		20	-	21	17		
	E	M		20	-	22	38		
	N	M		21	-	20	13		
		F	08	40	-				Mag.: M = 6.7
20	ZV,Z	i(P)	06	27	26	5	3.2		
22	ZV	ePKP	02	29	24				18.9°S., 169.5°E. h about 288 km.
									New Hebrides. USCGS.
22	ZV,Z	eP	04	57	22			(8700)	
	ZV,Z	e		58	05				
	E	e(S)	05	07	12				15.5°N., 93.1°W. h about 69 km.
	E	e		07	36				Near coast of Chiapas, Mexico.
	E	M		26	-	28	4½		USCGS.
	N	M		26	-	18	3½		
		F		50	-				
22	ZV	eP	19	27	53				32.3°N., 130.3°E. h about 185 km.
									Near Kyushu, Japan. USCGS.
23	ZV,Z	eP	06	10	22			9000	Compression.
	ZV,ZNE	i		10	26	7	10.0		Compression.
	ZV,ZNE	i		10	44				PH 14 sec. 5.4 μ
	ZV,Z	iPP		13	28	8	6.4		PPH 16 " 5.5 μ
	NE	iS		20	30	16	39 (H)		
	Z	iPS		21	12				42.9°N., 143.4°E. h about 25 km.
	N	e		26	44				Hokkaido, Japan. USCGS.
	NE	eL		35	-				
	E	M		41	-	34	102		
	N	M		42	-	32	108		
	E	M		46	-	21	30		
	N	M		47	-	25	90		
	Z	M		47	-	25	33		
		F	09	30	-				Mag.: M = 7.0
24	ZV,Z	iP	16	18	30				2.2°S., 76.1°W. h about 175 km.
		F	17	10	-				Ecuador-Peru border. USCGS.
25	ZV	eP	03	40	31				54.0°N., 160.3°E. Kamchatka. USCGS

FORM 3718

M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

APRIL, 1962

International Seismological Centre

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
25	ZV	e	04	46	39				
	ZV,Z	e		46	51				
	N	e(Sn)		47	48				
	E	e		48	14				45.3°N., 5.2°E.
	ZNE	e(Sg)		48	39				Southeastern France. USCGS.
	NE	eL		48.9	-				
	E	M		49¼	-	12	15		
	N	M		49½	-	12	7		
	Z	M		50	-	7	9		
		F	05	05	-				
25	ZV	eP	06	26	58			(2300)	
	NE	e(S)		30	40				
	N	M		34½	-	16	1½		
		F		50	-				
25	ZV,Z	iP	15	59	59	7	1.0	9300	
	N	eS	16	10	16	20	3.4(H)		38.4°N., 142.5°E. h about 56 km.
	E	e		10	24				Honshu, Japan. USCGS.
	E	eL		26	-				
	E	M		40½	-	20	10		
	N	M		41½	-	19	10½		
	Z	M		41½	-	20	6		
		F	17	40	-				Mag.: M = 5.9
25	ZV	eP	20	02	25				
	E	M		43	-	20	1		38.4°N., 142.7°E. h about 120 km.
	N	M		44	-	19	1		Honshu, Japan. USCGS.
		F	21	15	-				
26	ZV,Z	iPKP	07	45	05				17.8°S., 179.1°W. Fiji Islands. USCGS.
27	ZV	e	04	20	-				Very small. 45°N., 5.5°E.
	ZV,E	e(Sg)		21	56				South eastern France. BCIS
		F		28	-				
27	NE	e	07	35	-				44.4°S., 74.8°W. h about 31 km.
	E	M		55	-	19	1½		Southern Chile. USCGS.
	N	M		56	-	19	2		
		F	08	40	-				
28	Z	eP	11	24	16			2900	
	ZV,Z	iP		24	17	6	1.2		
	Z	ePP		24	55				36.4°N., 26.6°E. h about 40 km.
	N	eS		28	44	12	10.2		Dodecanese Islands.
	E	iS		28	54	12	26.2		USCGS.
	Z	i		29	00				
	NE	eL		31	-				
	E	M		33	-	20	6½		
	N	M		33	-	20	18		
		F	12	20	-				Mag.: M = 5¾
28	ZV,Z	eP	12	49	06	6	0.8	3000	
	N	eS		53	38	12	3.6		36.3°N., 26.7°E. h about 48 km.
	E	eS		53	42	12	8.7		Dodecanese Islands.
	N	eL		56	-				USCGS.
	E	M		58	-	20	2½		
	N	M		58	-	20	6½		
		F	13	25	-				Mag.: M = 5-5¼

FORM 3718

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

APRIL, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
30	ZV,Z	eP	02	38	54	5	2.5		Compression.
	NE	e		49	18				
	NE	eL	03	06	-				38.8°N., 140.9°E. h about 104 km.
	N	M		09	-	34	9		Honshu, Japan. USCGS.
	E	M		10	-	32	12		
	E	M		16	-	18	7½		
	N	M		16	-	18	5		
		F	04	15	-				Mag.: M = 6
30	ZV,Z	ePKP	16	36	30				
	ZV,Z	i		36	32				17.9°S., 176.1°W. Tonga Islands
	E	M	17	39	-	20	1½		region. USCGS.
	N	M		39	-	20	3½		
	Z	M		39	-	20	1		
		F	19	15	-				Mag.: M = 6
30	ZV,Z	ePKP	18	50	39				18.0°S., 176.4°W. h about 135 km.
	E	M	19	53	-	20	½		Fiji Islands region. USCGS.
	N	M		53	-	20	1		
		F	20	50	-				
30	NE	e	21	30	-				Small. 6.4°N., 124.0°E.
		F	22	10	-				Banda Sea. USCGS.
30	ZV,Z	eP	23	55	14	4	0.7	2400	
	E	eS		59	06	16	2.3(H)		73.7°N., 7°E.
	E	eL	24	00	-				North Atlantic. BCIS
	E	M		01	-	22	½		
	N	M		02	-	22	2		
		F		30	-				Mag.: M = 4½

FORM 3718

DS 65426/1/R.72 140 6/62 XL

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METEOROLOGICAL OFFICE EDINBURGH 20 JUL 1962 R6

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY, 1962

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.	$\frac{Ak}{\pi l}$ sec.$^{-1}$
N.	1 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	NE	e	03	20	-				Very small. 55.9°N., 156.1°W.
		F		40	-				Kodiak Islands. USCGS.
3	ZV	eP	02	50	13				42.6°N., 144.6°E. Off Hokkaido, Japan. USCGS.
3	E	eL	04	22	-				60.0°S., 32.9°W. Sandwich Islands
	E	M		36	-	20	½		region. USCGS.
	N	M		37	-	20	1½		
		F	05	20	-				
3	ZV	iPn	23	29	24			860	
	NE	eSn		30	53				43.6°N., 5.3°W. Spain. BCIS
	ZV	e(Sg)		31	46				
		F		45	-				
4	NE	e	23	45	-				Very small.
		F	24	05	-				
5	NE	eL	11	49	-				34.2°N., 139.2°E. h about 73 km.
	E	M	12	01	-	20	3		Near Honshu, Japan. USCGS.
	N	M		01	-	20	3		
		F		35	-				
6	NE	e	04	40	-				Small. 54.2°S., 136.5°W.
		F	05	40	-				South Pacific Ocean. USCGS.
6	ZV	iPKP	19	18	51				
	ZV,Z	ePP		19	45				
	N	ePS		29	29				60.0°S., 32.8°W.
	N	eSS		35	53				Sandwich Islands region. USCGS.
	N	e		40	17				

contd.

Form 8717.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

MAY, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
contd.									
6	E	eL	19	49	-				
	E	M		52	-	36	32		
	E	M	20	00½	-	22	8		
	N	M		02	-	21	14		
	Z	M		02	-	21	8		
		F	22	20	-				Mag.: M = 6½
6	NE	e	22	35	-				Very small. 60.2°S., 33.1°W.
		F	23	10	-				Sandwich Islands. USCGS.
7	ZV,Z	iP	17	51	58	8	4.2	8900	Compression. PH 12 sec. 2.6 μ
	ZV,Z	ePP		54	57	9	3.5		PPH 12 sec. 2.5 μ
	NE	eS	18	01	58	14	9.8(H)		
	N	eSKS		02	13				45.3°N., 146.7°E.
	N	eSS		06	55				Kurile Islands. USCGS.
	NE	eL		16	-				
	Z	M		25½	-	24	12		
	N	M		25½	-	24	43		
	E	M		26	-	21	33		
		F	20	40	-				Mag.: M = 6.3
8	ZV,Z	eP	23	59	05			2800	
	ZV	ePP		59	50				
	E	eS	24	03	21				35.9°N., 24.4°E. h about 93 km.
	N	eL		06½	-				Sea of Crete. USCGS.
	E	M		07½	-	20	½		
	N	M		07½	-	20	1½		
		F		20	-				
9	ZV	iP	11	31	12				46.1°N., 152.9°E. h about 56 km.
									Kurile Islands. USCGS.
10	ZV,Z	eP	00	14	09			7200	
	NE	eS		22	44				62.0°N., 150.1°W. h about 72 km.
	N	eL		34	-				Alaska. USCGS.
	N	M		44	-	20	½		
		F	-	-	-				overlapped by next shock.
10	ZV	e(P)	00	42	58				
10	Z	ePKP	00	47	17				41.8°S., 171.6°E. h about 54 km.
	E	M	02	13	-	19	1½		South Island, New Zealand. USCGS.
	N	M		14	-	19	2½		
		F		45	-				
10	ZV,Z	eP	05	24	03				52.4°N., 170.9°W. h about 43 km.
	E	M	06	00½	-	20	2		Fox Islands, Aleutian Islands.
	N	M		00½	-	20	3		USCGS.
		F	07	00	-				Mag.: M = 5½
10	ZV,Z	iP	11	18	43				49.2°N., 28.5°W. North Atlantic
	E	M		24	-	16	1½		Ocean. USCGS.
	N	M		24	-	16	1½		
		F		30	-				
10	ZV	eP	14	21	48				49.2°N., 28.6°W. North Atlantic
	E	M		28	-	16	1		Ocean. USCGS.
		F		35	-				

FORM 3718

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SEISMOLOGICAL BULLETIN

MAY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
10	NE	e	18	38	-				Small. 42.1°N., 19.2°E.
		F		45	-				Yugoslavia-Albania border. USCGS.
10	NE	e	20	27	-				Small.
		F		33	-				
10	NE	e	21	40	-				Very small.
		F	22	00	-				
10	NE	e	23	08	-				Small.
		F		20					
11	NE	e	01	10	-				Very small. 44.4°N., 11.1°E.
		F		18	-				Italy. USCGS.
11	NE	e	02	15	-				Very small.
		F		20	-				
11	NE	e	06	10	-				Small.
		F		20	-				
11	ZV,ZNE	eP	14	24	15	8	10.0	9450	Compression. PH 16 sec. 10.3 μ
	ZV,ZNE	ePP		27	27	8	8.5		PPH 16 sec. 7.7 μ
	NE	eSKS		34	33				
	N	eS		34	51	18	26(H)		17.0°N., 99.7°W. Near coast of
	E	eSS		39	57				Mexico. 4 dead, many injured and
	N	eLQ		47	-				extensive property damage. USCGS.
	N	M	15	02½	-	21	68		
	E	M		03	-	18	96		
	Z	M		03	-	18	44		
		F	18	35	-				Mag.: M = 7.3
14	ZV	eP	16	57	22				49.0°N., 28.8°W. North Atlantic
		F	17	07	-				Ocean. USCGS.
15	ZV,Z	ePKP	05	42	41				
	ZV,Z	ePP		43	43	8	10.6		PPH 12 sec. 8.2 μ
	E	ePS		53	50				
	E	eSS		59	44				
	E	eSSS	06	04	18				7.3°S., 128.3°E. h about 34 km.
	NE	eL		11½	-				Banda Sea. USCGS.
	E	M		25	-	30	77		
	N	M		25	-	32	110		
	E	M		36½	-	20	42		
	N	M		36½	-	22	43		
	Z	M		36½	-	20	18		
		F	09	35	-				Mag.: M = 7½
15	ZV	eP	08	36	23				39.7°N., 24.7°E. Aegean Sea. BCIS.
15	ZV	eP	19	43	57				53.4°N., 159.6°E. Near Kamchatka. USCGS.
18	ZV,Z	eP	12	16	15				
	NE	eL		20	-				48.6°N., 28.7°W. North Atlantic
	E	M		22½	-	16	1½		USCGS. Ocean.
	N	M		22½	-	16	1		
		F		35	-				

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MAY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
18	ZV	iP	18	58	52				Compression. 46.1°N., 148.5°E. Kurile Islands.
19	ZV,Z	iP	15	10	37	5	7.6	9600	Compression. PH 20 sec. 9.5 μ
	ZV,Z	ePP		13	47	5	5.5		PPH 20 sec. 7.4 μ
	E	eSKS		20	57				
	N	eS		21	11	16	11.1(H)		17.2°N., 99.5°W. Near coast of
	E	ePS		21	37				Mexico. 3 dead, 16 injured and
	N	eSS		25	49				extensive property damage.
	N	eLQ		33	-				USCGS.
	E	M		48½	-	20	58		
	N	M		49	-	20	39		
	Z	M		49½	-	20	33		
		F	18	25	-				Mag.: M = 7.1
21	ZV,Z	iP	12	13	37	8	11.1	7350	PH 12 sec. 5.3 μ
	ZV,Z	iPP		15	59	10	4.5		PPH 12 sec. 3.0 μ
	E	eS		22	23	13	11.8(H)		
	NE	eSS		26	49				37.3°N., 96.0°E. Chinghai Province,
	NE	eL		33½	-				China. USCGS.
	E	M		39	-	20	63		
	N	M		40	-	18	76		
	Z	M		44½	-	12	47		
		F	14	20	-				Mag.: M = 7.0
21	ZV,Z	iPKP1	21	34	36			16500	Depth = 400 km.
	ZV,Z	ipPKP1		36	12				
	ZV,Z	ePP		38	16	8	3.2		20.0°S., 177.5°W. h about 379 km.
	E	eSS		56	39	24	70		Fiji Islands region. USCGS.
	E	eSSS		59	19				
	E	M	22	36½	-	20	12		
	N	M		38	-	20	12		
	Z	M		38	-	20	5		
		F	23	45	-				Mag.: M = 6¾
22	ZV,Z	ePKP	08	25	49	6	4.0		12.3°S., 166.6°E. h about 151 km.
	ZV,Z	ePP		28	39	8	2.1		Santa Cruz Islands. USCGS.
	N	eSKP		29	27				
		F	10	15	-				Mag.: M = 6
22	NE	eL	23	02	-				5.5°S., 152.0°E. h about 100 km.
	E	M		22½	-	20	4½		New Britain. USCGS.
	N	M		22½	-	20	4		
		F	24	20	-				Mag.: M = 6-6¼
24	NE	e	04	50	-				Small. 49.1°N., 129.4°W.
		F	05	15	-				Vancouver Island region. USCGS.
25	Z	eP	00	53	19			2200	
	NE	eS		56	55				58.6°N., 31.5°W. South of
	NE	eL		58	-				Greenland. USCGS.
	N	M		59	-	20	1½		
	E	M		59½	-	18	1½		
		F	01	15	-				Mag.: M = 4¼

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MAY, 19 62

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
25	Z	eP	01	11	31				59.0°N., 31.2°W.
	N	M		17½	-	20	½		South of Greenland. USCGS.
	E	M		18	-	18	1½		
		F		27	-				Mag.: M = 4
25	NE	e	05	35	-				Small. 20.7°S., 174.3°W.
		F	06	40	-				Tonga Islands. USCGS.
28	NE	e	03	35	-				Very small. 16.4°N., 120.4°E.
		F	04	20	-				Philippine Islands. USCGS.
28	NE	e	16	24	-				Very small. 45.°N., 5.5°E.
		F		30	-				France. BCIS
28	NE	e	21	57	-				Very small. Aegean Sea foreshock.
		F	22	05	-				BCIS.
28	NE	e	23	06	-				Very small. 39½°N., 24¾°E.
		F		18	-				Aegean Sea. BCIS.
29	NE	e	01	36	-				Very small. Aegean Sea aftershock.
		F		43	-				BCIS.
30	NE	e	07	05	-				Very small.
		F		30	-				
30	ZV,Z	eP	10	10	09	5	0.5		
	ZV,Z	ePP		11	37	5	0.5		30.3°N., 42.4°W. North Atlantic
	NE	eS		15	57				Ocean. USCGS.
	N	eL		18½	-				
	E	M		21½	-	24	3½		
	N	M		21½	-	20	3		
		F	11	00	-				Mag.: M = 5
31	ZV	i(P)	02	06	46				24.5°N., 65.8°E. Off coast of
	E	M		34	-	20	½		West Pakistan.
	N	M		35	-	20	1		USCGS.
		F		45	-				
31	NE	eSKS	09	51	57				
	N	eS		52	47				22.1°N., 142.6°E. h about 257 km.
	E	M	07	27½	-	20	3		Volcano Islands region. USCGS.
	N	M		30	-	16	2½		
		F	08	15	-				

FORM 3718

DS 66117/1/R.72 140 7/62 XL

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METEOROLOGICAL OFFICE, EDINBURGH 24 AUG 1962

M.O. 720

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON ..... R.6 .....

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR JUNE, 1962

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	NE	e(S)	12	46	39				49.9°N., 129.8°W. Vancouver
	E	M	13	06	-	18	3		Island region.
	N	M		06	-	18	1½		USCGS.
		F		35	-				Mag.: M = 5½
2	NE	e(S)	17	38	41				
	NE	eL		50	-				29.8°N., 130.6°E.
	E	M	18	12	-	18	5		Kyushu, Japan.
	N	M		12½	-	18	5½		USCGS.
	Z	M		12½	-	18	3½		
		F		45	-				Mag.: M = 6
3	ZV,Z	eP	15	10	42	5	0.9	5100	
	NE	eS		17	24	10	2.4(H)		22.4°N., 45.2°W.
	N	eL		21	-				North Atlantic Ocean.
	E	M		25	-	20	7½		USCGS.
	N	M		25	-	20	6		
	Z	M		25	-	20	4		
		F	16	25	-				Mag.: M = 5.6
4	NE	e	23	50	-				Small.
		F	24	00	-				
6	NE	e	18	25	-				39.1°N., 123.1°W.
	E	M		45	-	18	½		California.
	N	M		45½	-	18	1		USCGS.
		F		50	-				
7	NE	e	01	00					Very small. 30.0°N., 113.4°W.
		F		15					Gulf of California. USCGS.

Form 3717

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SEISMOLOGICAL BULLETIN

JUNE, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
7	E	e(Sg)	19	59	29				Very small. 45°N., 5.5°E.
		F	20	03	-				France. BCIS.
8	NE	e	09	50	-				Small. 29.1°N., 129.5°E.
		F	10	25	-				Ryukyu Islands. USCGS.
8	NE	e	19	15	-				Very small. 11.3°N., 126.0°E.
		F		30	-				Timor Sea. USCGS.
8	NE	e	21	45	-				Very small. 55.7°S., 26.2°W.
		F	22	05	-				Sandwich Islands. USCGS.
9	ZV,NE	e	06	04	-				Very small.
		F		10	-				
9	NE	e	10	52	-				Small.
		F	11	00	-				
11	NE	e	01	25	-				Very small. 49.7°N., 129.3°W.
		F		45	-				Vancouver Island region. USCGS.
11	ZV,Z	ePKP	04	54	02				19.6°S., 177.7°W. h about 370 km. Fiji Islands. USCGS.
11	ZV,Z	iP	07	19	08	4	3.0	1800	Compression. PH 6 sec. 3.1 μ
	NE	eS		22	08	10	9.1		43.5°N., 18.3°E.
	NE	eL		22¾	-				Yugoslavia. 10 injured, extensive
	E	M		24	-	20	17		damage at Sarajevo. USCGS.
	N	M		24	-	20	54		
	E	M		24½	-	14	22		
	N	M		24½	-	16	61		
	Z	M		24½	-	6	25		
		F	08	40	-				Mag.: M = 5¼
12	NE	e	09	54	-				Small. 65.0°N., 16.6°W.
		F	10	05	-				Iceland. USCGS.
14	ZV,Z	eP	08	03	29			8240	54.3°N., 169.1°E. Near Islands,
	NE	eS		13	00	20	1.9(H)		Aleutian Islands.
	N	eSS		17	56				USCGS.
	E	M		41	-	20	4½		
	N	M		42	-	20	3½		
		F	09	35	-				Mag.: M = 5½
14	ZV,Z	eP	08	07	27				54.2°N., 169.3°E. Near Islands. USCGS.
14	NE	eL	22	55	-				26.4°N., 126.5°E. Ryukyu Islands.
	E	M	23	05½	-	20	5½		USCGS.
	N	M		05½	-	20	5½		Mag.: M = 6
		F		40	-				
15	NE	eL	07	10	-				20.4°S., 70.9°W.
	E	M		22	-	20	1½		Near coast of Chile. USCGS.
	N	M		22	-	20	1		
		F		50	-				

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

JUNE, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
16	NE	eL	05	57	-				26.6°N., 126.4°E.
	E	M	06	12½	-	20	1½		Ryukyu Islands.
	N	M		12½	-	20	1½		USCGS.
		F		35	-				Mag.: M = 5½
17	ZV	iP	04	49	12				Dilatation. 33.3°N., 76.2°E.
									Kashmir region. USCGS.
17	NE	ePS	04	54	42				
	NE	eL	05	10	-				40.1°S., 45.7°E.
	E	M		37½	-	20	1		Indian Ocean. USCGS.
	N	M		38	-	20	1		
		F		50	-				
19	ZV,Z	iPKP	00	01	34				4.8°S., 151.8°E. New Britain. USCGS.
21	ZV,Z	eP	04	55	59			9000	5.7°N., 82.6°W.
	NE	eS	05	06	06	16	1.4(H)		South of Panama.
	N	eL		17	-				USCGS.
	E	M		26	-	20	2½		
		F		50	-				Mag.: M = 5½
23	ZV	eP	09	57	41			9950	
	ZV,Z	ePP	10	01	21	4	1.2		25.7°N., 128.5°E.
	NE	eSKS		08	13				Ryukyu Islands.
	NE	eS		08	27	16	5.2(H)		USCGS.
	Z	ePS		09	47				
	NE	eL		28	-				
	E	M		37	-	20	38		
	N	M		37	-	20	36		
	Z	M		37	-	20	8		
		F	11	30	-				Mag.: M = 6.5
24	NE	eL	01	54	-				25.6°N., 101.1°E.
	E	M	02	05½	-	20	2½		Yunnan Province, China.
	N	M		05½	-	20	6		USCGS.
		F		40	-				Mag.: M = 5¾-6
25	NE	eL	07	19	-				Small. 37.3°S., 73.5°W.
		F		50	-				Near coast of Chile. USCGS.
25	Z	eP	11	23	13	7	1.0	9700	
	NE	eS		33	49				24.3°N., 122.6°E.
	NE	eL		49	-				Off coast of Formosa.
	E	M	12	07½	-	19	27		USCGS.
	N	M		08	-	18	32		
	Z	M		08	-	18	14		
		F	13	15	-				Mag.: M = 6¼
26	NE	e	03	40	-				Small. 27.9°N., 129.2°E.
		F	04	00	-				Ryukyu Islands. USCGS.
27	NE	e	04	35	-				Very small. 6.1°S., 148.8°E.
		F		55	-				New Britain region. USCGS.
28	NE	e	05	10	-				Small. 20.0°N., 155.6°W.
		F		50	-				Hawaii Island. USCGS.

FORM 3718

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

JUNE, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
28	ZV,Z	eP	06	55	21			2030	40.9°N., 20.8°E. Near Greece-
	E	eS		58	41	10	0.9		Albania border.
	E	M	07	01½	-	16	2		USCGS.
	N	M		01½	-	16	6		
		F		15	-				Mag.: M = 4½
28	ZV,Z	iPKP	21	06	45				17.6°S., 175.2°W. h about 244 km. Tonga Islands.
29	NE	eL	16	55	-				62.3°N., 152.4°W.
	N	M	17	06½	-	20	1½		Alaska.
	E	M		07	-	20	1		USCGS.
		F		30	-				
29	ZV	eP	22	43	20			4500	32.1°N., 48.4°E.
	N	eS		49	26				Iran.
		F	23	20	-				USCGS.
30	NE	eL	20	10	-				16.5°N., 122.0°E.
	E	M		24½	-	20	2		Near coast of Luzon.
	N	M		24½	-	20	3		USCGS.
		F	21	10	-				Mag.: M = 5¾

FORM 3718

DS 67249/1/R.72 140 8/62 XL

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METEOROLOGICAL OFFICE, EDINBURGH 17 SEP 1962

M.O. 720

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON Rb.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR JULY, 1962

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 UBER 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.	$\frac{Ak}{ml}$ sec.$^{-1}$
N.	1 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	21	50	-				
	E	M		57	-	16	2½		40.0°N., 75.4°E. Sinkiang
	N	M		57	-	16	1½		Province, China. USCGS.
	Z	M		57	-	16	1½		
		F	22	15	-				
√ 2	ZV,Z	ePKP	08	51	38				
	E	M	09	56	-	20	1½		10.3°S., 165.9°E. Santa Cruz
	N	M		56	-	20	1		Islands. USCGS.
		F	10	15	-				
√ 3	NE	e	19	25	-				56.3°S., 142.5°W. About 600
	E	M		41	-	22	1		miles west of Macquarie Islands.
	N	M		41	-	22	2		USCGS.
		F		-	-				overlapped by next shock.
3	N	M	19	55½	-	20	1½		54.6°S., 132.3°W. South Pacific
	E	M		56½	-	20	1		Ocean. USCGS.
		F	20	15	-				
3	ZV	iP	21	26	26				Small. 4.3°N., 31.6°W.
		F		55	-				Mid-Atlantic Ocean. USCGS.
4	NE	eL	08	07	-				
	E	M		10½	-	16	1		54.5°N., 36.7°W. South of
	N	M		10½	-	14	1		Greenland. USCGS.
		F		17	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

JULY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
4	NE	eL	08	53	-				South of Greenland
	E	M		56	-				aftershock.
	N	M		56	-	16	1		
		F	09	03	-	14	½		
5	E	e(S)	18	04	57				
	NE	eL		23	-				30.9°N., 141.4°E. South of
	N	M		33½	-	20	1		Honshu, Japan. USCGS.
	E	M		34	-	20	1½		
		F	19	15	-				
6	ZV,Z	eP	02	22	26	4	0.7	6800	
	ZV,Z	ePcP		23	08				13.3°N., 58.0°E. Arabian Sea,
	N	eS		30	41	8	1.6(H)		east of Socotra. USCGS.
	N	eLQ		38	-				
	E	M		57	-	17	1		
	N	M		57	-	18	1½		
		F	03	20	-				Mag.: M = 5½
6	ZV,Z	iP	09	20	45	7	1.8	2220	
	NE	eS		24	23	14	7.8(H)		
	NE	eL		26	-				38.0°N., 20.2°E. h about 30 km.
	E	M		27½	-	20	6½		Ionian Sea. USCGS.
	N	M		27½	-	20	9½		
	E	M		28½	-	16	9		
	N	M		28½	-	16	26		
	Z	M		28½	-	16	6		
		F	10	35	-				Mag.: M = 4.9
6	ZV	eP	15	59	00				37.2°N., 19.4°E.
	N	M	16	06½	-	16	½		Ionian Sea. USCGS.
		F		15	-				
6	ZV,Z	iP	23	14	15	6	9.3	5700	Compression.
	ZV,Z	ipP		15	04				Depth = 220 km.
	ZE	iPcP		15	26				PH 12 sec. 5.6 μ
	ZE	iPP		16	13	8	4.2		PPH 12 sec. 5.5 μ
	N	iS		21	15	14	30.3(H)		36.6°N., 70.4°E. Hindu Kush.
	N	isS		22	35				Minor damage. USCGS.
	N	eScS		23	29				
	N	eSS		24	56				
	E	M		36	-	20	18		
	N	M		36½	-	22	25		
		F	25	20	-				Mag.: M = 6.2
7	ZV,Z	iP	06	24	41	4	0.6	8600	
	ZV,Z	i		24	55				51.3°N., 178.6°E. h about 60 km.
	E	eS		34	27				Rat Islands, Aleutian Islands.
	N	eSS		39	49				USCGS.
	N	M		03	-	20	2		
	E	M		03½	-	20	2½		
	Z	M		03½	-	20	1		Mag.: M = 5½
		F	-	-	-				overlapped by next shock.
7	NE	e	07	45	-				Very small. 51.3°N., 178.8°E.
		F	08	15	-				Rat Islands. USCGS.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

JULY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
7	ZV	eP	12	51	42				Very small. 36.8°N., 18.5°E.
		F	13	07	-				Ionian Sea. USCGS.
7	ZV,Z	iP	21	32	42				51.9°N., 158.6°E. Near Kamchatka. USCGS.
8	NE	e	03	45	-				Small. 51.5°N., 178.5°E.
		F	04	40	-				Rat Islands, USCGS.
8	NE	e	04	50	-				Very small. 55.5°S., 30.1°W.
		F	05	30	-				Sandwich Islands. USCGS.
8	ZV,Z	eP	07	40	08				Small. 8.1°N., 38.0°W.
		F	08	15	-				Mid-Atlantic Ocean. USCGS.
10	ZV,Z	iPKP	05	30	49				20.8°S., 178.7°W. h about 584 km.
									Fiji Islands. USCGS.
10	NE	eS	10	15	11				
	N	eL		16½	-				38.4°N., 25.9°E. Aegean Sea.
	E	M		18½	-	20	½		USCGS.
	N	M		18½	-	20	2		
	Z	M		19½	-	12	3		
		F		30	-				Mag.: M = 4¼
11	ZV,Z	eP	01	13	13				
	N	eL		28	-				31.8°N., 66.9°E.
	E	M		36½	-	20	1½		Afganistan. USCGS.
	N	M		37	-	20	3		
		F	02	10	-				Mag.: M = 5-5¼
11	NE	e	13	30	-				11.9°N., 122.1°E.
	E	M		36	-	20	1½		Panay, Philippine Islands.
	N	M		36	-	20	3		USCGS.
		F	14	25	-				
12	NE	e	23	35	-				Very small. 3.9°S., 104.1°W.
		F	24	20	-				South Pacific Ocean. USCGS.
12	NE	eSKS	03	56	19				10.4°N., 122.6°E. h about 66 km.
	E	M	04	38	-	20	2		Panay, Philippine Islands.
	N	M		38	-	20	3		USCGS.
	Z	M		38	-	20	2		
		F	05	10	-				Mag.: M = 5¾
13	NE	e	23	00	-				Very small. 56.2°N., 164.0°E.
		F		20	-				Komandorskie Islands. USCGS.
14	ZV	e(P)	16	09	13				
	E	M		38	-	16	½		30.4°N., 79.5°E. Tibet-Indian
	N	M		38	-	16	½		border. USCGS.
		F		55	-				
14	NE	eL	20	16	-				
	N	M		24½	-	20	1½		40.3°N., 124.4°W. Northern
	E	M		25	-	20	1½		California. USCGS.
		F		50	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

JULY, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
14	ZV,Z	eP	20	49	47				50.2°N., 155.8°E. Kurile Islands. USCGS.
15	ZV	e	04	40	-				Very small.
		F		43	-				
15	ZV,Z	iP	06	59	37			9050	Depth = 100 km.
	ZV,Z	ipP	07	00	03				39.8°N., 140.9°E. Honshu, Japan.
	N	eS		09	39				USCGS.
		F		50	-				
16	NE	e	03	20	-				
	E	M		39	-	20	½		52.1°S., 138.9°E. South of
	N	M		39	-	20	1½		Tasmania. USCGS.
		F	04	10	-				
16	NE	e	05	30	-				Very small. 11.2°S., 79.8°W.
		F		50	-				Near Peru. USCGS.
16	ZV	e(P)	07	08	25				
	N	eL		14½	-				
	N	M		15½	-	20	1½		
		F		22	-				
16	ZV,Z	eP	13	05	16			7200	
	NE	eS		13	53				62.3°N., 153.1°W.
	E	M		34	-	20	½		Alaska. USCGS.
	N	M		34	-	20	½		
		F	14	15	-				
17	ZV,Z	ePP	05	51	45				
	N	eSS	06	07	30				
	NE	eL		20	-				43.0°S., 74.9°W.
	E	M		38	-	20	1		Near coast of Chile. USCGS.
	N	M		38	-	20	1½		
	Z	M		38	-	20	1		
		F	07	25	-				
17	ZV,Z	iP	17	32	37	5	0.9	9000	43.1°N., 144.5°E.
	N	eS		42	44	10	1.3		Hokkaido, Japan.
	N	M	18	12	-	20	3		USCGS.
		F		40	-				Mag.: M = 5¾
24	ZV,Z	iP	16	41	16				
	ZV	i		41	23				
		F	17	30	-				
24	ZV,Z	eP	21	20	12				Depth = 120 km.
	ZV	epP		20	43				15.5°N., 92.5°W. Mexico-
	N	eL		41	-				Guatemala border.
	N	M		56	-	19	1		USCGS.
		F	22	25	-				
25	ZV,Z	eP	04	48	57	5	1.3	8100	
	Z	ePP		51	32				18.9°N., 81.1°W. h about 64 km.
	N	eS		58	18	16	3.6		West of Jamaica.
	N	eL	05	06	-				USCGS.
	N	M		16	-	18	9		
	Z	M		16	-	18	6		
		F	06	55	-				Mag.: M = 6.0

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

JULY, 19 62

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	ZV,Z	iP	08	26	51	4	12.3	8870	Dilatation.
	ZV	i		27	03				7.5°N., 82.7°W.
	ZV,Z	iPP		29	53	5	6.9		South of Panama.
	N	eS		36	50	16	11.9		USCGS.
	N	ePS		38	42				
	N	eL		47½	-				
	Z	M		59½	-	20	47		
	N	M	09	00½	-	19	75		
		F	12	35	-				Mag.: M = 7.1
26	N	e	22	25	-				Small. 56.4°S., 25.7°W.
		F	23	00	-				Sandwich Islands. USCGS.
28	ZV,Z	iPKP	00	24	45				
	NE	eL	01	12	-				16.2°S., 173.2°W. h about 40 km.
	N	M		24	-	20	2		Samoa Islands region. USCGS.
	E	M		25	-	20	1		
	Z	M		25	-	20	1		
		F	02	25	-				
28	NE	e	14	40	-				Very small. 14.8°N., 93.0°W.
		F	15	05	-				Mexico. USCGS.
28	NE	e(S)	20	06	15				Small. 36.9°N., 141.9°E.
		F		55	-				Off Honshu, Japan. USCGS.
28	ZV	iP	20	58	40				44.6°N., 148.6°E. Kurile Islands. USCGS.
30	ZV,Z	ePKP	17	35	43				3.3°S., 143.9°E.
	ZV,Z	ePP		37	17	6	1.5		Near north coast of New Guinea.
	N	eL	18	08	-				USCGS.
	N	M		32½	-	19	27		
	Z	M		32½	-	19	12		
		F	20	30	-				Mag.: M = 6.9
30	ZV,Z	iP	20	30	42	5	4.9	8500	Compression.
	ZV,Z	i		31	17				5.0°N., 76.3°W. h about 45 km.
	N	iS		40	23	14	31.0		Western Colombia. 47 killed,
	N	e		41	07				300 injured and property damage.
	N	eSS		44	25				USCGS.
	N	eIQ		51	-				
	N	M	21	01½	-	20	23		
	Z	M		01½	-	20	12		
		F	23	30	-				Mag.: M = 6.9
31	N	eL	01	37	-				
	N	M		39	-	18	1½		
		F		46	-				
31	NE	e	03	15	-				Small. 3.2°S., 144.1°E.
		F		45	-				Near New Guinea. USCGS.
31	N	eS	05	36	49				18.8°N., 120.8°E. Near north
	N	eL		51	-				coast of Luzon, P.I. USCGS.
	N	M	06	11½	-	20	2½		
	Z	M		12½	-	16	1½		
		F		45	-				Mag.: M = 5¾

FORM 3718

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M.O. 720

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR AUGUST, 1962

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).

OBSERVATORY ★ EDINBURGH ★ 12 MAR 1963

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	ePKP	04	55	56				
	ZV,Z	ePP		56	25				
	N	e	05	07	34				3.2°S., 143.7°E. Near north coast of New Guinea.
	N	eL		27½	-				USCGS.
	N	M		53½	-	20	10		
	Z	M		53½	-	20	4½		
		F	07	45	-				Mag.: M = 6½
2	N	e	05	10	-				Very small. 19.3°N., 81.0°W.
		F		30	-				South of Cuba. USCGS.
2	ZV,Z	iP	15	41	51				33.4°N., 73.5°E. West Pakistan.
	N	M	16	06	-	15	½		USCGS.
		F		20	-				
3	ZV,Z	iP	09	09	27	5	1.2	10400	Dilatation.
	ZV,Z	i		09	33				
	ZV,Z	e		10	03				23.2°S., 67.5°W. h about 71 km.
	ZV,Z	ePP		13	09	5	2.3		Northern Chile-Argentina border.
	ZV,Z	i		13	16				USCGS.
	NE	eSKS		19	51	12	19.2(H)		
	NE	eS		20	27	17	11.4(H)		
	ZNE	ePPS		22	19				
	NE	eSS		26	45				
	ZV,Z	P'P'		34	35				
	NE	eL		35	-				
	E	M		47½	-	23	23		
	N	M		47½	-	23	10		
	Z	M		47½	-	23	10		
		F	11	20	-				Mag.: M = 6.8

Form 3717

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

AUGUST, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
3	ZV,V	iP	11	12	56				Compression.
	E	M		32½	-	20	2½		40.9°N., 73.3°E.
	N	M		32½	-	20	4½		Kirghiz S.S.R. USCGS.
	E	M		36½	-	16	6½		
	N	M		36½	-	16	5		
	Z	M		36½	-	16	4		Mag.: M = 5½
		F	12	10	-				
5	N	e	09	21	-				
	N	eL		24	-				74.2°N., 52.5°E. h = 0 km.
	E	M		29	-	24	7		H-bomb, Novaya Zemlya. USCGS.
	N	M		29	-	24	6½		
	N	M		33½	-	13	7		
	Z	M		33½	-	13	3½		
		F		50	-				
6	ZV,Z	eP	01	42	27	7	1.0	4000	
	ZV,Z	ePP		43	44				32.0°N., 40.8°W. h about 48 km.
	NE	eS		48	01	12	4.1(H)		North Atlantic Ocean. USCGS.
	NE	eL		50½	-				
	N	M		53½	-	14	9½		
	E	M		54	-	16	11		
	Z	M		54½	-	16	3½		
		F	03	10	-				Mag.: M = 5.5
6	ZNE	e	04	28	-				Very small. 46.3°N., 7.5°E.
		F		32	-				Switzerland. BCIS.
6	ZV,Z	ePKP1	21	11	45				
	ZV,Z	ePKP2		12	09				26.9°S., 177.1°W. h about 50 km.
	ZV,Z	ePP		15	45				Kermadec Islands. USCGS.
	N	M	22	20	-	22	1½		
	E	M		21	-	20	2		
		F	23	15	-				
10	ZV,Z	iP	21	08	03	8	2.5	2100	PH 10 sec. 3.5 μ
	NE	eS		11	28	8	2.1(H)		49.4°N., 27.9°W. North Atlantic Ocean.
	E	eL		12	-				
	E	M		14	-	19	12		
	N	M		14	-	18	4		
	Z	M		14	-	18	6		
		F		55	-				Mag.: M = 4.9
11	ZV,Z	iPKP1	02	06	17				Depth = 630 km.
	ZV,Z	iPKP2		06	23				
	ZV,Z	ipPKP1		08	41				20.0°S., 178.8°W. Fiji Islands. USCGS.
	Z	ePP		09	42				
11	ZV,Z	iP	08	28	24	4	2.4	9900	Dilatation. Depth = 135 km.
	ZV,Z	epP		28	58				
	Z	ePP		31	51	7	1.1		25.2°N., 123.3°E. h about 140 km.
	NE	eS		38	58	14	7.9(H)		Off coast of Formosa.
	N	eSS		44	46				USCGS.
	NE	eL		51½	-				
		F	09	45	-				Mag.: M = 6.4

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

AUGUST, 1962

DATE	COMPT	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
13	ZV,Z	iP	06	48	26	4	1.1	9400	
	ZV,Z	ePP		51	38	4	0.9		
	NE	eS		58	48	16	4.0 (H)		2.1°N., 83.5°W. About 300 miles
	E	eSS	07	04	28				N.West of Ecuador. USCGS.
	E	eSSS		07	42				
	N	eL		11	-				
	Z	M		20½	-	22	2½		
	E	M		20½	-	22	5½		
	N	M		21	-	21	3		
		F	08	00	-				Mag.: M = 6.2
13	NE	e	20	42	-				
	E	M		50	-	16	1		51.8°N., 110.2°E.
	N	M		50	-	16	1		Buryatskaya S.S.R.
		F	21	05	-				USCGS.
14	NE	e	01	50	-				49.9°S., 163.0°E.
	E	M	02	52	-	20	1½		North of Macquerie Islands. USCGS.
	N	M		52	-	20	2		
		F	03	25	-				
14	ZV,Z	eP	07	36	17				28.0°N., 55.6°E. Iran. USCGS.
17	NE	e	05	31	-				
	E	M	06	07	-	19	9		10.6°N., 121.6°E. Panay region,
	N	M		07	-	19	6½		Philippine Islands. USCGS.
	Z	M		07	-	19	2½		
		F		45	-				Mag.: M = 6¼
18	ZV,Z	eP	16	54	30				62.3°N., 152.5°W.
	NE	eL	17	15	-				Central Alaska.
	N	M		22½	-	20	½		USCGS.
		F		55	-				
18	ZV,Z	iP	17	56	50			7200	
	NE	eS	18	05	26				62.3°N., 152.5°W.
	N	M		24½	-	22	1½		Central Alaska. USCGS.
	E	M		25½	-	18	½		
		F	19	15	-				
19	NE	e	11	35	-				
	E	M	12	08½	-	20	½		06.8°S., 149.5°E. New Britain
	N	M		08½	-	20	½		region. USCGS.
		F		30	-				
19	ZV,Z	eP	18	35	49	5	1.3	5840	
	ZV,Z	i		35	57				
	ZV,Z	ePcS		40	54				
	NE	eS		43	12	11	3.1 (H)		44.6°N., 81.7°E. Northwest
	E	eScS		45	39				Sinkiang Province. USCGS.
	N	eSS		46	44				
	NE	eL		51	-				
	E	M		56	-	20	13		
	N	M		56	-	20	22		
		F	20	00	-				Mag.: M = 5.9

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SEISMOLOGICAL BULLETIN

AUGUST, 1962

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19	NE	e	23	50	-				Very small. 26.6°S., 69.8°W.
		F	24	15	-				Near coast of Chile. USCGS.
20	N	eL	09	19	-				
	E	M		23½	-	20	1½		74.4°N., 051.2°E. h about 0 km.
	N	M		23½	-	20	1½		H-bomb, Novaya Zemlya. USCGS.
	N	M		26½	-	13	2		
	Z	M		26½	-	13	1½		
		F	09	33	-				
21	ZV,Z	eP	18	12	32	4	0.5	1830	41.5°N., 15.4°E. h about 36 km.
	E	eS		15	32	12	1.9(H)		Italy. USCGS.
	E	eL		17	-				
	E	M		18½	-	19	25		
	N	M		18½	-	19	34		
	Z	M		20	-	16	13		Mag.: M = 5½
		F	-	-	-				overlapped by next shock.
21	ZV,Z	eP	18	22	58	6	2.9	1840	41.4°N., 15.5°E. h about 34 km.
	E	iS		25	59	12	10.4(H)		Italy. About 15 dead, 200
	E	eL		27	-				injured and major property
	E	M		29	-	19	109		damage. USCGS.
	N	M		29	-	19	158		
	Z	M		30½	-	16	74		
		F	19	55	-				Mag.: M = 6-6¼
21	ZV,Z	e(PKP)	21	26	20				
	N	eSS		47	38				28.7°S., 176.8°W. h about 55 km.
	N	eL	22	02	-				Kermadec Islands region. USCGS.
	E	M		18	-	21	5		
	N	M		19	-	20	5½		
	Z	M		19	-	20	4		
		F	23	45	-				Mag.: M = 6¼
22	NE	e	09	20	-				
	N	M		24½	-	13	2		H-bomb explosion. Novaya Zemlya.
	Z	M		24½	-	13	1		
		F		28	-				
23	NE	e	02	55	-				Very small.
		F	03	10	-				
25	ZV,Z	iPKP$_1$	08	50	31				Depth = 610 km.
	ZV,Z	i		50	36				20.5°S., 178.5°W.
	ZV,Z	ipPKP$_1$		52	51				Fiji Islands. USCGS.
	Z	e		53	58				
25	NE	e	09	20	-				
	N	M		22½	-	24	2		H-bomb explosion,
	N	M		26	-	13	1½		Novaya Zemlya.
	Z	M		26	-	13	1		
		F		30	-				
25	ZV,Z	eP	20	02	24				36.7°N., 1.6°E. Near coast of
	E	eL		06½	-				Algeria. USCGS.
	E	M		07½	-	14	2½		
		F		15	-				

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26	NE	e	07	12	-				34.0°N., 139.2°E. h about 38 km.
	NE	eL		29	-				Near coast of Honshu, Japan.
	E	M		38½	-	19	5		USCGS.
	N	M		38½	-	19	4		
		F	08	25	-				Mag.: M = 5¾-6.
26	ZV	iP	16	34	27				36.5°N., 1.6°E. Near coast of
	E	M		39½	-	14	1½		Algeria. USCGS.
		F		45	-				
27	NE	e	09	17	-				
	E	M		22	-	24	2½		74.7°N., 50.3°E. h about 0 km.
	N	M		22	-	24	3½		H-bomb explosion.
	N	M		25½	-	13	3		Novaya Zemlya.
	Z	M		25½	-	13	2½		USCGS.
		F		32	-				
27	NE	e	17	00	-				Small. 38.3°N., 142.4°E.
		F		25	-				Off Honshu, Japan. USCGS.
28	NE	e	01	10	-				Very small. 34.2°N., 139.7°E.
		F		30	-				Near Honshu, Japan. USCGS.
28	NE	e	08	50	-				34.2°N., 139.3°E.
	E	M	09	02½	-	20	1½		Near coast of Honshu, Japan.
	N	M		02½	-	20	1½		USCGS.
		F		30	-				
28	ZV,ZNE	iP	11	04	36	5	12.0	2370	Dilatation. PH 6 sec. 14.7 μ
	ZV,Z	ipP		04	52				PPH 8 sec. 20.2 μ
	NE	iS		08	23	12	163(H)		Depth = 75 km.
	NE	isS		08	49				38.0°N., 23.1°E. Greece.
	E	eL		10	-				1 killed, 11 injured and
	N	M		13	-	20	50		moderate property damage. USCGS.
	E	M		14	-	20	33		
		F	12	40	-				Mag.: M = 6.5
29	NE	e	16	00	-				Very small. 34.5°N., 139.8°E.
		F		20	-				Near Honshu, Japan. USCGS.
29	NE	e	18	25	-				Very small. 34.3°N., 139.5°E.
		F		45	-				Near Honshu, Japan. USCGS.
29	NE	e	21	00	-				
	E	M		09½	-	20	1		34.0°N., 139.3°E. Near coast of
	N	M		09½	-	20	½		Honshu, Japan.
		F		30	-				USCGS.
29	NE	e(S)	23	00	13				34.1°N., 139.1°E. Near coast of
	E	eL		23	-				Honshu, Japan. USCGS.
	E	M		32	-	20	3½		
	N	M		34	-	20	3		
		F	24	15	-				Mag.: M = 5¾
30	NE	e	06	30	-				Very small.
		F		40	-				

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SEISMOLOGICAL BULLETIN

AUGUST, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
30	NE	e	12	05	-				Very small. 35.1°N., 140.4°E.
		F		25	-				Near Honshu, Japan. USCGS.
30	ZV,Z	eP	13	46	36	4	0.4		41.8°N., 111.8°W. Utah-Idaho
	NE	eL	14	06	-				border. Minor damage. USCGS.
	E	M		16	-	16	2½		
	N	M		16	-	16	1		
	Z	M		16	-	16	½		
		F		55	-				Mag.: 5¼-5½
30	ZV,Z	ePKP	17	47	38				
	E	eSS	18	00	13				21.2°S., 174.4°W.
	E	M		43	-	20	1		Tonga Islands. USCGS.
	N	M		43	-	20	1		
		F	19	45	-				
30	NE	e	20	00	-				Very small. 47.7°S., 32.6°E.
		F		20	-				Prince Edward Islands. USCGS.
31	NE	e	11	40	-				15.4°S., 177.3°W. h about 60 km.
	E	M	12	00	-	20	1		Fiji Islands region. USCGS.
	N	M		00	-	20	½		
		F		30	-				
31	ZV,Z	iP	17	14	39	6	1.0	8700	Compression.
	NE	eS		24	31				51.3°N., 179.7°W.
	N	e		25	45				Rat Islands, Aleutian Islands.
	E	eL		35	-				USCGS.
	E	M		57½	-	19	6		
	N	M		57½	-	20	7½		
	Z	M		57½	-	20	3		
		F	19	50	-				Mag.: M = 5.9
31	ZV	eP	18	08	02				51.2°N., 179.9°W. Rat Islands. USCGS.

FORM 3718

DS 68601/1/R.72 140 10/62 XL

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR SEPTEMBER, 1962

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).

ROYAL OBSERVATORY EDINBURGH 12 MAR 1963

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	iP	03	58	00			8700	Compression.
	NE	eS	04	07	51	12	1.1 (H)		51.3°N., 179.7°W. Rat Islands,
	N	eSS		13	19				Aleutian Islands. USCGS.
	E	eL		18	-				
	E	M		41	-	19	$4\frac{1}{2}$		
	N	M		41	-	20	$5\frac{1}{2}$		
	Z	M		41	-	20	3		
		F	-	-	-				Mag.: M = $5\frac{3}{4}$
									overlapped by next shock.
1	ZV,Z	iP	04	53	35				Compression. 51.3°N., 179.9°W.
									Rat Islands. USCGS.
1	ZV,Z	iPKP$_1$	05	11	17				
	ZV,Z	ipPKP$_1$		12	24				Depth = 270 km.
	ZV,Z	iPP		14	30				15.9°S., 168.2°E. h about 244 km.
									New Hebrides Islands. USCGS.
1	ZV,Z	iP	08	03	01			8700	
	N	eS		12	51				
	E	M		46	-	19	$3\frac{1}{2}$		51.3°N., 179.9°W. h about 42 km.
	N	M		46	-	20	$4\frac{1}{2}$		Rat Islands, Aleutian Islands.
	Z	M		46	-	20	$2\frac{1}{2}$		USCGS.
		F	09	40	-				Mag.: M = $5\frac{3}{4}$
1	NE	e	10	10	-				Small.
		F		35	-				
1	ZV,Z	iP	15	10	35	3	0.9	6200	Compression.
	ZV,Z	ipP		10	41				
	NE	eS		18	18				
	E	eSS		20	18				25.8°N., 65.3°E. h about 46 km.
	E	M		$38\frac{1}{2}$	-	17	2		Near coast of West Pakistan.
	N	M		$38\frac{1}{2}$	-	17	$2\frac{1}{2}$		USCGS.
		F	16	05	-				Mag.: M = $5\frac{3}{4}$

Form 3717

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SEISMOLOGICAL BULLETIN

SEPTEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
1	ZV,ZE	iP	19	28	05	10	20.2	4450	Compression. PH 13 sec. 18.4 μ
	ZV,ZE	iPP		29	42	12	24.8		PPH 14 sec. 39.0 μ
	ZNE	iS		34	10	16	66(H)		35.6°N., 50.0°E. Iran. Over 10000
	NE	eLQ		37½	-				killed, many injured and extensive
	E	M		45½	-	20	260		property damage. USCGS.
	N	M		46	-	19	277		
	Z	M		45½	-	20	56		
		F	23	35	-				Mag.: M = 7.1
1	ZV	iP	20	35	05				35.3°N., 49.6°E. Iran. USCGS.
2	N	e	04	15	-				Very small.
		F		25	-				
2	NE	e	04	48	-				Very small.
				55	-				
2	NE	e	05	22	-				
	E	M		30½	-	16	1		
	N	M		30½	-	16	1½		
		F		37	-				
2	NE	e	05	52	-				
	N	M		58	-	16	½		
		F	06	05	-				
2	NE	e	06	23	-				
	E	M		31	-	16	1½		
	N	M		31	-	16	2		
		F		40	-				
2	NE	e	07	03	-				
	E	M		11½	-	16	½		
	N	M		11½	-	16	1½		
		F		20	-				
2	N	e	07	58	-				Very small.
		F	08	10	-				
2	NE	e	08	34	-				
	N	M		42½	-	16	1		
		F		50	-				
2	ZV,Z	iP	19	56	46				71.2°N., 12.7°W. Jan Mayen Island
	N	M	20	04½	-	16	½		region. USCGS.
		F		10	-				
3	NE	e	04	50	-				Very small.
		F	05	00	-				
4	NE	e	13	47	-				Small. 35.6°N., 49.7°E.
		F	14	10	-				Iran. USCGS.
4	ZV,Z	iP	23	05	50			3600	Compression.
	E	eS		11	01				39.9°N., 44.2°E.
	N	M		20	-	20	3		Turkey-Armenia border. USCGS.
	E	M		21	-	20	1½		
		F		50	-				Mag.: M = 5

FORM 3718

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SEPTEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
8	NE	eL	10	36	-				73.7°N., 53.8°E. Novaya Zemlya.
	E	M		39½	-	22	1.2		H-bomb explosion. USCGS.
	N	M		39½	-	22	1.5		
	N	M		42½	-	13	1.2		
	Z	M		42½	-	13	0.7		
		F		45	-				Mag.: M = 4.6
10	ZV,Z	iP	09	41	53			3100	
	NE	eS		46	31	16	4.5(H)		
	EN	eL		49	-				35.0°N., 27.1°E.
	E	M		51	-	22	4½		Dodecanese Islands. USCGS.
	N	M		51	-	22	8		
	E	M		54	-	14	10		
	Z	M		54	-	14	4		
		F	10	25	-				Mag.: M = 5.1
10	ZV,Z	iPKP1	16	02	34				21.1°S., 179.2°W. h about 640 km.
	ZV,Z	i		02	39				Fiji Islands. USCGS.
	ZV,Z	iPKP2		02	47				
10	NE	e	18	55	-				Very small. 17.5°S., 173.6°W.
		F	19	20	-				Tonga Islands. USCGS.
11	N	e	00	30	-				Very small. 39.9°N., 43.9°E.
		F		45	-				Turkey. USCGS.
12	ZV,Z	iP	21	05	54	6	1.9	5600	
	Z	i		06	03				36.5°N., 69.2°E. h about 50 km.
	NE	iS		13	03	10	8.1(H)		Hindu Kush. USCGS.
	E	eSS		16	31				
	N	eL		20	-				
	E	M		26½	-	24	24		
	N	M		27	-	23	40		
	E	M		31	-	18	40		
	N	M		31	-	18	19		
	Z	M		31	-	18	19		
		F	22	35	-				Mag.: M = 6.3
13	NE	e	00	20	-				Very small. 7.3°S., 13.3°W.
		F		40	-				Ascension Island region. USCGS.
14	NE	e	00	44	-				39.6°N., 28.6°E. h about 69 km.
	N	M		36½	-	16	1½		Western Turkey. USCGS.
		F		55	-				
14	ZV,Z	ePKP1	18	36	58				Depth = 390 km.
	ZV	epPKP1		38	33				19.9°S., 177.6°W. Fiji Islands. USCGS.
15	N	eL	08	15	-				74.4°N., 51.5°E. Novaya Zemlya,
	E	M		23½	-	22	1.2		H-bomb explosion. USCGS.
	N	M		23½	-	22	2.3		
	N	M		26½	-	13	3.1		
	Z	M		26½	-	13	1.7		
		F		40	-				Mag.: M = 4.8

FORM 3718

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

SEPTEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
15	ZV,Z	eP	23	02	47	5	2.0	8800	PH 14 sec. 1.7 μ
	ZV,Z	i		02	51				
	ZV,Z	i		03	06				48.5°N., 156.8°E.
	Z	ePP		05	36	5	1.0		Kurile Islands. USCGS.
	NE	eS		12	43	12	4.8(H)		
	N	eSS		17	36				
	E	eL		37	-				
	E	M		43	-	20	5½		
	N	M		44	-	20	8½		
	Z	M		44	-	20	3½		
		F	25	35	-				Mag.: M = 6.1
16	NE	e	11	12	-				74.2°N., 51.6°E. Novaya Zemlya.
	E	M		20	-	24	1.3		H-bomb explosion. USCGS.
	N	M		20	-	24	3.0		
	N	M		23½	-	13	3.1		
	Z	M		23½	-	13	1.7		
		F		30	-				Mag.: M = 4.9
16	NE	e	19	45	-				Small. 16.7°N., 94.2°E.
		F	20	10	-				Near coast of Burma. USCGS.
16	NE	e	23	30	-				Very small. 22.8°N., 123.5°E.
		F		50	-				Near coast of Formosa. USCGS.
17	ZV,Z	iPKP	18	14	23				21.0°S., 179.1°W. h about 601 km.
	ZV,Z	i		14	28				Fiji Islands. USCGS.
	ZV,Z	i		14	36				
17	N	eL	19	53½	-				
	E	M		55	-	16	1		41.3°N., 20.8°E. Southern
	N	M		55	-	16	2½		Yugoslavia. USCGS.
		F	20	00	-				
18	ZV,Z	eP	00	41	11	6	2.7	8800	
	ZV,Z	ePP		44	11	6	2.0		7.5°N., 82.3°W. South of Panama.
	NE	eS		51	08	12	14.0(H)		USCGS.
	E	eSS		56	31				
	E	eSSS	01	00	02				
	N	eLQ		02½	-				
	Z	M		09	-	24	18		
	E	M		09	-	24	39		
	N	M		10	-	23	29		
		F	03	50	-				Mag.: M = 6.5
18	NE	e	05	50	-				Very small. 7.3°N., 82.4°W.
		F	06	05	-				South of Panama. USCGS.
18	NE	eL	08	46	-				
	E	M		50½	-	22	0.5		73.2°N., 54.7°E. Novaya Zemlya.
	N	M		50½	-	22	1.2		H-bomb explosion. USCGS.
	N	M		53½	-	13	2.0		
	Z	M		53½	-	13	1.2		
		F	09	00	-				Mag.: M = 4.5
19	ZV,Z	iP	05	18	41				48.1°N., 145.1°E. h about 466 km.
									Near Sakhalin. USCGS.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

SEPTEMBER, 1962

DATE	COMPT	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
19	NE	e	11	15	-				73.8°N., 53.8°E. Novaya Zemlya.
	E	M		22	-	22	1.9		H-bomb explosion. USCGS.
	N	M		22	-	22	5.3		
	N	M		25½	-	13	4.9		
	Z	M		25½	-	13	2.6		
		F	11	55	-				Mag.: M = 5.1
19	NE	e	15	10	-				Small.
		F		25	-				
21	NE	e	08	17	-				Novaya Zemlya.
	E	M		22½	-	22	0.5		H-bomb explosion.
	N	M		22½	-	22	1.8		
	N	M		25½	-	13	1.9		
	Z	M		25½	-	13	0.9		
		F		33	-				Mag.: M = 4.6
21	NE	e	23	35	-				Very small. 57.7°S., 64.1°W.
		F	24	05	-				Drake Passage. USCGS.
22	ZV,Z	iP	07	03	08			8300	
	ZV	ePP		05	57				26.5°N., 97.0°E.
	NE	eS		12	40	8	3.5(H)		Northern Burma. USCGS.
	NE	ePS		13	18				
	N	eL		27½	-				
	E	M		33½	-	24	12		
	N	M		33½	-	24	28		
		F	08	40	-				Mag.: M = 6.3
23	NE	eL	12	24	-				Very small. 14.7°N., 45.1°W.
		F		35	-				Atlantic Ocean. USCGS.
24	NE	e	03	50	-				44.3°N., 80.6°E.
	N	M		56	-	16	1		Kazakh S.S.R. USCGS.
		F	04	05	-				
24	NE	e	06	25	-				Small. 9.2°N., 126.6°E.
		F		45	-				Philippine Islands. USCGS.
24	ZV,Z	eP	14	50	37	5	1.1		42.8°N., 145.3°E. Near Hokkaido,
		F	15	50	-				Japan. USCGS.
25	NE	eL	13	15	-				73.7°N., 55.0°E. Novaya Zemlya.
	E	M		23	-	24	5.8		H-bomb explosion. USCGS.
	N	M		24	-	23	6.5		
	N	M		27	-	13	6.8		
	Z	M		27	-	13	3.5		
		F		40	-				Mag.: M = 5.2
27	NE	e	07	40	-				Very small. 47.4°S., 34.3°E.
		F	08	05	-				Prince Edward Islands. USCGS.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

SEPTEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
27	NE	eL	08	15	-				74.3°N., 52.4°E. Novaya Zemlya.
	E	M		24	-	24	3.9		H-bomb explosion. USCGS.
	N	M		24	-	24	5.8		
	N	M		27¾	-	13	6.8		
	Z	M		27¾	-	13	3.5		
		F		50	-				Mag.: M = 5.2
27	ZV,Z	iPKP	13	43	48				17.6°S., 178.9°W. Fiji Islands. USCGS.
28	ZV,Z	iP	19	07	50	5	1.0	8700	Compression. 5.2°N., 76.2°W.
	N	eS		17	32	8	2.0		h about 127 km. Colombia. USCGS.
		F		45	-				Mag.: M = 5½
29	ZV,Z	iP	15	30	12				Confused by strong microseisms.
	E	ePS		43	39				27.0°S., 63.6°W. h about 575 km.
		F	16	25	-				Argentina. USCGS.
30	NE	e	22	40	-				Small. 18.6°N., 120.9°E.
		F	23	10	-				Philippine Islands. USCGS.

FORM 3718

DS 69097/1/R.72 140 11/62 XL

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR OCTOBER, 1962

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).

ROYAL OBSERVATORY EDINBURGH 12 MAR 1963

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	iPKP	04	15	33				17.5°S., 178.9°W. h about 550 km. Fiji Islands. USCGS.
1	ZV	iP	10	05	23				47.3°N., 151.5°E. h about 127 km. Kurile Islands.
1	ZV,Z	iP	12	22	31			5300	
	N	eS		29	24	10	2.6(H)		27.9°N., 54.9°E. Southern Iran. USCGS.
	E	M		44	-	20	$2\frac{1}{2}$		
	N	M		44	-	20	3		
		F	13	20	-				Mag.: M = $5\frac{1}{2}$
2	N	e	23	15	-				Very small. Azores?
		F		30	-				
3	ZV,Z	eP	01	21	52			2520	40.6°N., 29.7°W. Azores region. USCGS.
	N	eS		25	54				overlapped by next shock.
		F	-	-	-				
3	ZV,Z	eP	01	24	26			2520	
	N	eS		28	28	16	1.8		40.7°N., 29.7°W. Azores region. USCGS.
	E	M		32	-	16	$2\frac{1}{2}$		
	N	M		32	-	14	$3\frac{1}{2}$		
		F	02	00	-				Mag.: M = $4\frac{1}{2}$
3	N	e	19	40	-				Very small. 57.5°S., 26.7°W. Sandwich Islands. USCGS.
		F		55	-				
4	NE	e	00	05	-				Small. Azores?
		F		20	-				

Form 3717

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

OCTOBER, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
4	NE	e	04	50	-				Small. 40.4°N., 29.5°W.
		F	05	05	-				Azores region. USCGS.
4	NE	e	06	07	-				Small. Azores?
		F		20	-				
4	NE	e	13	32	-				Small. 40.9°N., 29.7°W.
		F		50	-				Azores region.
4	NE	e	19	00	-				Small. Azores?
		F		15	-				
4	NE	e	19	23	-				Very small. Azores?
		F		30	-				
4	ZV,Z	iP	19	50	55	5	1.0	2430	
	E	eS		54	50	14	2.8(H)		38.3°N., 22.7°E.
	NE	eL		58	-				Greece. USCGS.
	N	M		59½	-	18	5		
	E	M	20	00	-	16	2½		
		F		15	-				Mag.: M = 4.8
4	NE	e	23	18	-				Very small. Azores?
		F		30	-				
5	ZV,Z	e(P)	04	19	43				40.2°N., 29.5°W.
		F		30	-				Azores region. USCGS.
5	ZV	e(P)	08	44	32				40.7°N., 29.8°W.
		F	09	00	-				Azores region. USCGS.
5	ZV,Z	eP	20	10	39				35.1°N., 58.6°E. Iran.
	N	M		33½	-	16	1		5 killed, many injured. BCIS.
		F		45	-				
6	ZV,Z	eP	03	22	09	5	1.7	2600	
	NE	eS		26	18	14	3.7(H)		40.8°N., 29.5°W.
	NE	eL		27½	-				Azores region. USCGS.
	E	M		29	-	16	2½		
	N	M		29	-	14	4½		
		F	04	00	-				Mag.: M = 5.0
6	ZV,Z	eP	04	00	01			2600	40.5°N., 29.5°W.
	NE	eS		04	09	14	2.0(H)		Azores region. USCGS.
	E	M		07	-	16	1½		
	N	M		07½	-	14	2½		
		F		30	-				Mag.: M = 4½
6	ZV,Z	ePKP	04	43	00				17.4°S., 167.7°E.
	NE	eSS	05	05	08				New Hebrides Islands. USCGS.
	NE	eL		30	-				
	Z	M		48	-	22	3½		
	N	M		48	-	22	6		
	E	M		49	-	22	4½		
		F	07	25	-				Mag.: M = 6¼
6	ZV,Z	iP	05	51	28				26.2°N., 126.9°E. Ryukyu Islands. USCGS.

FORM 3718

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M.O. 720

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN

OCTOBER, 19 62

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
6	NE	e	08	30	-				Small. 17.4°S., 167.8°E.
		F	09	05	-				New Hebrides Islands. USCGS.
6	Z	ePKP	08	23	05				17.2°S., 168.0°E. New Hebrides
	N	M		28	-	22	1½		Islands. USCGS.
	E	M		29	-	22	1½		
		F	10	20	-				Mag.: M = 5½
6	ZV,Z	iPKP	11	19	59				13.3°S., 167.3°E. New Hebrides
	ZV,Z	iPP		23	18				Islands. USCGS.
6	ZV	iPKP	18	20	40				17.6°S., 168.0°E. New Hebrides Islands. USCGS.
6	ZV,Z	ePKP	23	50	59				17.5°S., 167.6°E.
	N	M	24	56	-	22	2		New Hebrides Islands. USCGS.
	E	M		57	-	22	1½		
		F	25	50	-				Mag.: M = 5¾
7	NE	e	06	54	-				Small. 40.5°N., 29.2°W.
		F	07	05	-				Azores region. USCGS.
7	ZV,Z	e(P)	09	54	33			2660	40.2°N., 29.2°W.
	N	eS		58	45				Azores region. USCGS.
	N	M	10	01	-	14	1		
		F		15	-				
7	N	e	16	55	-				Very small.
		F	17	00	-				
8	ZV,Z	iP	05	19	23			2650	Compression.
	NE	eS		23	34				40.5°N., 29.5°E.
	N	M		26	-	14	1		Azores region. USCGS.
		F		35	-				
8	NE	e	19	00	-				
	E	M		00½	-	16	1½		
		F		05	-				
8	ZV,Z	iP	22	09	16	6	1.7	9900	Compression.
	ZV,Z	ePP		13	47	7	1.3		PPH 10 sec. 1.3 μ
	NE	eSKS		19	42				
	N	eS		20	00	12	5.1(H)		24.3°N., 121.7°E.
	N	eL		38	-				Near east coast of Formosa.
	N	M		45	-	25	39		USCGS.
	E	M		45½	-	24	27		
	E	M		54½	-	16	26		
	N	M		54½	-	16	32		
	Z	M		54½	-	14	16		
		F	24	30	-				Mag.: M = 6.3
9	Z	e	20	35	-				
	NE	eL	21	09	-				3.2°S., 148.2°E.
	E	M		30	-	20	3		Bismarck Sea. USCGS.
	N	M		30	-	21	6		
	Z	M		30	-	20	2		
		F	22	55	-				Mag.: M = 6-6¼

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SEISMOLOGICAL BULLETIN

OCTOBER, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	N	e	22	55	-				15.1°S., 173.3°W. Samoa Islands region. USCGS.
	N	M	23	13	-	20	1½		
	E	M		14	-	20	1		
		F		30	-				
13	ZV,Z	iP	10	31	03			4350	35.5°N., 49.8°E. North western Iran. USCGS.
	N	eS		37	00	10	1.5(H)		
	N	eL		42½	-				
	E	M		48	-	20	2		
	N	M		48	-	20	3		
		F	11	25	-				Mag.: M = 5¼
13	NE	e	20	00	-				12.6°S., 166.6°E. Santa Cruz Islands. USCGS.
	N	M		10	-	20	1		
		F		25	-				
14	NE	eL	15	50	-				31.8°N., 131.5°E. Near Kyushu, Japan. USCGS.
	E	M	16	01	-	20	1		
	N	M		01	-	20	1		
		F		20	-				
15	ZV	$ePKP_1$	23	56	38				43.5°S., 169.8°E. Near South Island, New Zealand. USCGS
	ZV	$ePKP_2$		57	53				
	N	M	25	20	-	20	1		
		F		45	-				
16	NE	eL	18	34	-				51.6°N., 175.8°W. Near Islands, Aleutian Islands. USCGS.
	E	M		53	-	20	1		
	N	M		54	-	20	1½		
		F	19	30	-				Mag.: M = 5¼
18	NE	e	05	00	-				Very small. 8.9°S., 117.0°E. Sumbawa. USCGS
		F		25	-				
18	ZV	iP	08	52	47				46.5°N., 149.6°E. Kurile Islands. USCGS.
18	ZV,Z	iP	11	34	33				46.5°N., 149.5°E. Kurile Islands. USCGS.
19	NE	e	21	55	-				Small. 19.8°N., 108.3°W. Off coast of Mexico. USCGS.
		F	22	25	-				
21	NE	e	02	35	-				Very small. 61.1°N., 149.7°W. Alaska. USCGS.
		F		55	-				
22	NE	e	05	30	-				Small. 3.4°S., 145.3°E. Bismarck Sea. USCGS.
		F	06	05	-				
22	NE	eL	09	21	-				73.4°N., 54.9°E. Novaya Zemlya. H-bomb explosion. USCGS.
	E	M		26½	-	24	2.9		
	N	M		27½	-	22	4.4		
	N	M		30½	-	13	4.4		
	Z	M		30½	-	13	2.3		
		F		45	-				Mag.: M = 5.0

FORM 3718

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SEISMOLOGICAL BULLETIN

OCTOBER, 1962

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
22	ZV,Z	iP	15	35	28				49.8°N., 155.8°E.
	N	eL		59	-				Northern Kurile Islands. USCGS.
	E	M	16	15½	-	20	1		
	N	M		15½	-	20	2		
		F		40	-				Mag.: M = 5¼
25	NE	e	16	30	-				8.4°N., 82.6°W. Panama-Costa Rica
		F		50	-				border. USCGS.
25	E	eL	21	15	-				Confused by strong microseisms.
	N	M		41½	-	20	7		61.4°S., 154.9°E. Southwest of
	E	M		42	-	20	4		Macquarie Islands. USCGS.
		F	22	20	-				Mag.: M = 6¼
26	ZV,Z	iP	11	31	53				Compression. 33.7°N., 27.9°E.
		F		55	-				Mediterranean Sea. USCGS.
29	ZV	iP	00	31	48				Dilatation. 7.1°N., 82.6°W.
									Off coast of Panama. USCGS.
29	E	e	21	55	-				Confused by strong microseisms.
	E	M	22	03	-	22	1½		
		F		20	-				
30	NE	e	02	20	-				Confused by strong microseisms.
	E	M		45	-	22	5		
	N	M		45	-	22	6		
		F	03	25	-				
31	ZV,Z	iP	11	44	43				Confused by strong microseisms.
	NE	eL	12	06	-				5.6°N., 82.6°W. South of Panama.
	E	M		15	-	20	3		USCGS.
		F		35	-				

FORM 3718

DS 70389/1/R.72 140 12/62 XL

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR NOVEMBER, 1962

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).

KEW OBSERVATORY 12 MAR 1963 EDINBURGH

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	16	15	-				Confused by strong microseisms.
		F	17	10	-				1.9°N., 133.0°E. Off New Guinea.
									USCGS.
1	NE	e	18	45	-				Confused by strong microseisms.
		F	19	20	-				1.9°N., 132.8°E. Off New Guinea.
									USCGS.
2	N	e	15	40	-				Confused by microseisms.
	N	M		55	-	20	2		10.0°S., 117.8°E. South of
		F	16	15	-				Sumbawa. USCGS.
4	ZV,Z	ePP	23	13	09				Confused by microseisms.
	NE	eL		42	-				43.2°S., 75.6°W. Off coast of
	E	M	24	00½	-	20	1½		Chile. USCGS.
	N	M		00½	-	20	2		
		F		30	-				Mag.: M = 5¾
5	ZV	i(P)	11	50	06				Confused by strong microseisms.
									66.4°N., 6.8°E. Near Norway. USCGS
6	ZV	iP	00	18	20				Confused by strong microseisms.
	E	M		39½	-	18	3		28.0°N., 55.6°E.
	N	M		39½	-	18	4		Southern Iran. USCGS.
		F		55	-				Mag.: M = 5¼
7	ZV,Z	iP	13	02	48				Compression. Confused by
	NE	eL		08½	-				microseisms.
	E	M		10½	-	16	1½		40.5°N., 29.4°W. Azores. USCGS.
	N	M		10½	-	16	2		
		F		20	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

NOVEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
8	NE	e	00	50	-				Very small. 15.1°S., 75.6°W.
		F	01	05	-				Near Peru. USCGS.
8	NE	e	01	20	-				4.4°S., 105.5°W.
	E	M		34	-	20	1.1		Galapagos Islands region. USCGS.
		F		50	-				
9	ZV,Z	iP	01	18	25				Dilatation. 33.4°N., 47.2°E.
	N	M		36	-	16	1		Iraq-Iran border. USCGS.
		F		50	-				
9	ZV	iP	11	11	08				
10	ZV,Z	iP	01	45	30	4	3.2	9050	Compression.
	NE	eS		55	34	6	3.8(H)		43.8°N., 147.2°E. h about 60 km.
	E	M	02	19	-	26	3		Kurile Islands. USCGS.
	N	M		20	-	26	6		
	E	M		24	-	20	1½		
	N	M		24	-	20	2		
		F		50	-				Mag.: M = 6½
11	ZV,Z	eP	11	41	47			6700	Confused by microseisms.
	ZV,Z	e		41	55				55.8°N., 113.1°E.
	NE	eS		49	57				Lake Baikal region. USCGS.
	E	M	12	07	-	18	3		
	N	M		07½	-	18	3		
		F		25	-				Mag.: M = 5½
11	ZV	e(P)	15	24	05			5300	
	ZV	e		24	15				17.2°N., 40.7°E.
	NE	eS		30	57				Red. Sea. USCGS.
	N	M		47	-	16	2		
	E	M		48	-	16	2		
		F	16	20	-				Mag.: M = 5
11	ZV,Z	ePKP	16	29	19				12.9°S., 166.5°E. h about 77 km.
	NE	eL	17	17	-				Santa Cruz Islands. USCGS.
	E	M		35½	-	20	1½		
	N	M		35½	-	20	2½		
		F	18	20	-				Mag.: M = 6
11	Z	ePP	22	33	59				43.2°S., 76.0°W. Off coast of Chile. USCGS.
	NE	eSS		49	47				
	NE	eL	23	03	-				
	E	M		21	-	20	2		
	N	M		21	-	20	2½		
		F	24	10	-				Mag.: M = 5¾
12	NE	eL	13	38	-				
	E	M		40	-	22	1½		
	N	M		40	-	22	1½		
	E	M		48½	-	14	2½		
	N	M		48½	-	14	3½		
	Z	M		48½	-	14	2		
		F	14	05	-				
12	NE	e	21	30	-				Very small. 17.8°S., 13.6°W.
		F		45	-				Atlantic Ocean. USCGS.

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

NOVEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
14	N	eL	08	25	-				35.7°N., 140.8°E. h about 61 km.
	E	M		40	-	20	1½		Central Honshu, Japan. USCGS.
	N	M		40	-	20	1½		
		F	09	10	-				
15	ZV,Z	iP	23	38	13	3	1.3	10100	Compression.
	E	eSKS		48	42				8.7°S., 79.8°W. h about 45 km.
	E	eS		49	02	16	2.7		Near coast of Peru. USCGS.
	N	eL	24	03	-				
	E	M		16	-	20	1½		
	N	M		16	-	20	3		
		F		55	-				Mag.: M = 6¼
16	N	eSS	07	56	47				32.3°S., 111.1°W. h about 43 km.
	NE	eL	08	11	-				Eastern Island region. USCGS.
	N	M		34	-	20	5½		
	E	M		34	-	20	3		
		F	09	55	-				Mag.: M = 6-6¼
16	ZV,Z	iP	21	22	22	6	1.7	9000	Compression.
	ZV,Z	i		22	27				13.5°N., 93.2°E.
	E	eSKS		32	33				Andaman Islands. USCGS.
	N	e		32	43				
	N	M		59½	-	21	23		
	E	M	22	01½	-	20	14		
	Z	M		03½	-	20	4		
		F		55	-				Mag.: M = 6¼
23	E	ePS	00	55	34				
	NE	eL	01	09	-				15.1°S., 75.3°W. Near coast of Peru. USCGS.
	N	M		22½	-	18	2½		
	E	M		23½	-	18	3		
	Z	M		23½	-	18	1½		
		F		50	-				Mag.: M = 5¾
23	ZV,Z	iPKP	23	24	30				21.5°S., 179.3°W. h about 609 km. Fiji Islands. USCGS.
24	NE	e	16	36	-				9.8°N., 40.7°W.
	E	M		46	-	20	1½		Mid-Atlantic Ocean. USCGS.
	N	M		46	-	20	1½		
		F	17	00	-				Mag.: M = 5
25	NE	e	16	36	-				
	E	M		56½	-	14	1		
	N	M		56½	-	14	1		
		F	17	00	-				
26	ZV	eP	05	38	48				
	NE	e		50	34				39.8°N., 77.2°E.
	NE	eL		56	-				Sinkiang Province, China.
	E	M	06	03½	-	16	5		USCGS.
	N	M		03½	-	16	5		
	Z	M		03½	-	16	3		
		F		30	-				Mag.: M = 5½

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SEISMOLOGICAL BULLETIN

NOVEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
26	ZV	iP	16	18	39				23.8°S., 175.8°W.
	N	M	17	24	-	20	1		Tonga Islands. USCGS.
		F		40	-				
27	ZV,Z	iP	07	05	36				Compression. Depth = 200 km.
	ZV,Z	epP		06	25				25.1°N., 122.9°E.
	ZV,Z	ePP		09	07				Ryukyu Islands.
	ZV,Z	epPP		09	46				USCGS.
27	NE	e	12	50	-				Small. Confused by microseisms.
		F	13	15	-				14.9°N., 119.9°E. Philippine Islands. USCGS.
27	NE	e	17	40	-				Small. 12.2°N., 143.8°E.
		F	18	10	-				Mariana Islands. USCGS.
28	NE	e	03	27	-				Confused by microseisms.
	E	M		37	-	21	1½		12.1°N., 143.7°E. Mariana Islands.
	N	M		37	-	21	1½		USCGS.
		F	04	05	-				
28	ZV	e(P)	05	14	12				22.4°S., 10.5°W. Atlantic Ocean. USCGS.
28	ZV	e(P)	05	20	55				Confused by microseisms.
	N	M		53	-	18	1½		22.5°S., 10.7°W. Atlantic Ocean. USCGS.
		F	06	05	-				
29	ZV	ePKP	19	26	15				
	NE	eL	20	05	-				17.3°S., 168.5°E. Near Hebrides Islands. USCGS.
	N	M		34	-	20	2		
	E	M		35	-	20	2		
		F	21	25	-				
30	ZV,Z	eP	22	03	54	6	0.8	9160	Compression.
	Z	e		06	51				
	E	eSKS		13	57				17.4°N., 99.6°W. h about 51 km.
	N	eS		14	05	10	0.9(H)		Guerrero, Mexico.
	NE	eL		30	-				USCGS.
	N	M		41½	-	20	1½		
	E	M		42	-	20	1½		
		F	23	15	-				Mag.: M = 5.4

FORM 3718

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M.O. 720

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN FOR DECEMBER, 1962

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).

OBSERVATORY ★ EDINBURGH ★ 12 MAR 1963

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 October 1960	21.3	21.4	+0.01	64.0
E.	1 November 1960	20.7	20.7	-0.01	59.3
Z.	1 September 1960	11.1	9.1	+0.01	156.0

(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	02	12	-				
	NE	eL		23	-				52.4°N., 170.1°W. Fox Islands,
	E	M		36½	-	20	1		Aleutian Islands. USCGS.
	N	M		37½	-	20	1½		
		F	03	15	-				
1	ZV	iPKP	04	37	24				29.7°S., 177.7°W. Kermadec Islands. USCGS.
2	NE	e	06	40	-				Very small. 9.9°S., 159.9°E.
		F	07	10	-				Solomon Islands. USCGS.
2	NE	e	22	40	-				Very small. 35.8°N., 50.1°E.
		F		55	-				Iran. USCGS.
4	E	e	04	13	-				
	E	M		24	-	20	1		10.1°N., 103.6°W. Off coast of
		F		35	-				Mexico. USCGS.
4	ZV	e(P)	07	35	40				21.8°S., 65.6°W. h about 300 km. Southern Bolivia. USCGS.
4	NE	eL	17	38	-				
	E	M	18	02	-	20	1		16.5°S., 172.8°W. Samoa Islands
	N	M		02	-	20	1½		region. USCGS.
		F	19	10	-				
5	NE	e	12	20	-				Very small. 10.3°S., 77.9°W.
		F		35	-				Peru. USCGS.
6	ZV,Z	iP	04	15	58				49.0°N., 154.3°E. h about 85 km. Kurile Islands. USCGS.

Form 3717

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

DECEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
7	ZV,Z	eP	09	47	17				
	E	M	10	15	-	20	1		38.0°N., 106.3°E. Central China.
	N	M		15	-	20	1½		USCGS.
		F		30	-				
7	ZV,Z	iP	14	16	03	4	2.1	10000	Dilatation.
	ZV,Z	epP		17	40				Depth = 418 km.
	ZV,Z	iPP		19	50	6	2.9		
	NE	iSKS	14	25	53				
	NE	iS		26	22	15	11.2(H)		29.2°N., 139.2°E. h about 411 km.
	NE	esS		28	58				Bonin Islands region. USCGS.
	NE	i		29	20				
	N	ePPS		30	22				
	NE	eSS		32	46				
		F	15	40	-				Mag.: M = 6.3
8	NE	eL	19	20	-				Confused by strong microseisms,
	Z	M		38	-	20	4		15.2°S., 173.7°W. Tonga Islands.
	N	M		38	-	20	7		region. USCGS.
	E	M		39½	-	20	4		
		F	20	35	-				Mag.: M = 6¼
8	ZV,Z	iP	21	39	38			10400	Confused by strong microseisms.
	ZV,Z	i		39	46				25.8°S., 63.4°W., h about 620 km.
	ZV,Z	iPP		43	36	6	2.9		Argentina. USCGS.
	EN	iSKS		49	19	16	15.8(H)		
	N	eS		49	52	20	11.1(H)		
	N	eSS		56	22				
	N	esSS		59	56				Mag.: M = 6.5
		F	-	-	-				overlapped by next shock.
8	ZV,Z	iP	23	07	03				Confused by strong microseisms.
	ZV,Z	i		07	15				50.5°N., 176.8°W. Andreanof
	E	M		45	-	20	1½		Islands, Aleutian Islands. USCGS.
	N	M		46	-	20	2½		
		F	24	10	-				Mag.: M = 5½
12	NE	eL	11	00	-				Confused by microseisms.
	E	M		22	-	22	2½		4.8°S., 153.8°E. h about 94 km.
	N	M		22	-	22	3		New Britain. USCGS.
		F		50	-				Mag.: M = 6
17	NE	e	17	55	-				Small. 38.0°N., 106.1°E.
		F	18	15	-				China. USCGS.
21	NE	e	01	09	-				9.0°S., 112.4°E. h about 64 km.
	N	eL		30	-				Near coast of Java. USCGS.
	N	M		57½	-	20	5½		
	E	M	02	00	-	20	4½		Mag.: M = 6-6¼
		F		30	-				
21	ZV,Z	iP	08	54	34	4	1.3	8600	Compression. Confused by
	NE	eS	09	04	21	16	3.2(H)		microseisms.
	N	e		04	53				PH 16 sec. 2.4 μ
	E	M		30	-	20	19		52.4°N., 168.5°W. Fox Islands,
	N	M		34	-	20	21		Aleutians. USCGS.
	Z	M		34	-	20	12		Mag.: M = 6¼
		F	-	-	-				overlapped by next shock.

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

DECEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
21	ZV,Z	iP	09	21	49	4	3.2		Compression. 52.5°N., 168.5°W.
	NE	e(S)		31	29	16	12.5(H)		Fox Islands. USCGS.
	N	M		59	-	20	19		
		F	12	15	-				Mag.: M = 6¾
21	ZV	iP	09	45	31				Dilatation.
	E	M	10	27	-	20	6½		42.4°N., 142.3°E. Near Hokkaido,
	N	M		27	-	20	7		Japan. USCGS.
		F	-	-	-				Mag.: M = 6
21	ZV	e(P)	21	40	24				Confused by microseisms.
	E	e(SKS)		50	53				0.9°S.,80.9°W. Near coast of
	E	M	22	16	-	20	1½		Ecuador. USCGS.
		F		30	-				
22	ZV	e(PKP)	01	12	08				Confused by strong microseisms.
	ZV	e		12	20				22.0°S., 170.1°E. Loyalty Islands
	NE	eL		52	-				region. USCGS.
	E	M	02	29	-	20	4½		
	N	M		30	-	20	5½		
		F	03	30	-				Mag.: M = 6¼
22	ZV	iP	15	32	15			8700	Confused by microseisms.
	NE	eS		42	06	17	6.0(H)		
	E	e		42	44				52.5°N., 168.8°W. h about 47 km.
	N	M	16	06½	-	20	8½		Fox Islands, Aleutians. USCGS.
	E	M		07	-	20	8		
	Z	M		12	-	18	6		
		F	18	20	-				Mag.: M = 6¼
23	ZV	iP	00	48	02				41.3°N., 20.5°E. Albania-Yugoslavia
	E	M		57½	-	16	1		border. BCIS
		F	01	05	-				
24	N	e	11	23	40				
	NE	eL		26	-				
	E	M		33½	-	22	5		73.6°N., 57.5°E.
	N	M		34½	-	20	8½		Novaya Zemlya. USCGS.
	Z	M		34½	-	20	5		H-bomb explosion.
	E	M		36	-	14	3		
	N	M		36	-	14	5		
	Z	M		36	-	14	3½		
		F		50	-				Mag.: M = 5¼
25	NE	e	13	50	-				
	N	M		58½	-	20	1½		
	E	M		59½	-	16	1½		
	Z	M		59½	-	16	1½		
		F	14	05	-				
26	ZV,Z	iP	09	01	33			1500	39.3°N., 10.6°W. Off coast of
	ZV	iS		04	00				Portugal. USCGS.
	E	M		05½	-	21	8½		
	N	M		05½	-	21	6		
		F	09	35	-				Mag.: M = 4¾

FORM 3718

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND

SEISMOLOGICAL BULLETIN

DECEMBER, 1962

DATE	COMPT.	PHASE	G.M.T. h.	m.	s.	PERIOD sec.	AMPLITUDE μ	Δ km.	REMARKS
26	ZV,Z	iP	22	36	53	6	2.0	8300	Compression.
	ZV,Z	e		37	04				PN 16 sec. 2.0 μ
	ZV,N	ePP		39	39				PPN 16 " 1.3 μ
	NE	iS		46	27	15	8.3(H)		53.9°N., 168.7°E.
	NE	e		46	51				Komandorskie Islands. USCGS.
	NE	eSS		51	13				
	E	M	23	12½	-	20	9½		
	N	M		12½	-	18	7		
	Z	M		12½	-	18	3½		
		F	26	30	-				Mag.: M = 6.2
26	ZV,Z	eP	23	34	57				23.9°N., 65.4°E. Arabian Sea.
	N	M	24	04	-	18	4		USCGS.
	E	M		04	-	18	3½		
		F	-	-	-				Mag.: M = 5½
27	Z	iP	23	57	52				Compression.
	E	M	24	34	-	20	1½		54.0°N., 168.8°E. Komandorskie
		F	-	-	-				Islands. USCGS.
27	ZV,Z	iP	18	31	05				
	N	e(S)		41	33				39.9°N., 142.0°E. Near coast of
	E	M	19	11	-	20	1½		Honshu, Japan. USCGS.
	N	M		11	-	20	1½		
		F		25	-				
28	NE	e	23	42	-				Very small. 34.7°N., 23.9°E.
		F		50	-				Mediterranean Sea. USCGS.
29	ZV,Z	iP	08	14	17				23.9°N., 65.2°E. Pakistan. USCGS.
	E	M		43	-	17	1½		
	N	M		43	-	17	2		
		F		55	-				Mag.: M = 5-5¼
29	ZV,Z	eP	10	54	17	6	1.0	10150	
	ZV,Z	ePP		57	58	8	1.1		20.0°S., 69.9°W. h about 46 km.
	E	eSKS	11	04	53				Northern Chile.
	NE	eS		05	09	13	2.7(H)		USCGS.
	E	ePS		06	41				
	NE	ePPS		07	17				
	E	eSS		11	43				
	EN	eL		19½	-				
	E	M		32	-	20	11		
	N	M		32	-	20	7		
	Z	M		32	-	20	6½		
		F	12	30	-				Mag.: M = 6.2
29	ZV	$ePKP_2$	15	08	29				
	NE	eL		55	-				31.2°E. 177.9°W. h about 43 km.
	E	M	16	18	-	20	1½		Kermadec Islands region. USCGS.
	N	M		18	-	20	3		
	Z	M		18	-	20	1		
		F	17	30	-				Mag.: M = 6

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