

M.O. 591

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR..... JANUARY,..... 19 55

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. sec.	PENDULUM FREE PERIOD T. sec.	DAMPING CONSTANT μ^2 .	$\frac{Ak}{\pi I}$ 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 Sept. 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.			PERIOD. sec.	AMPLI- TUDE. "	Δ km.	REMARKS.
			h.	m.	s.				
3	ZV	iP	01	11	41			2270	Z,e. Dilatation. Small. Central Greece 39°N., 22°E. (U.S.C.G.S.)
	ZV	i			47				
	ZV	i			53				
	ZV	i			59				
	ZV	i			06				
	ZV	i (PPP)			10				
	ZV	i			15				
	ZV	i			26				
	ZV	i			34				
	NE	iS			15 26				
	NE	i			16 28				
	NE	eLQ			17 59				
	ZNE	eLR			20 23				
	F	30 -							
3	NEZ	eL	19	30	-			Small. Microseisms.	
		F			40				-
5	ZV,Z	iPKP1	01	10	23			19,050	N,E,e. Dilatation. Off S. coast of New Zealand 50°S., 162½°E. (U.S.C.G.S.).
	ZV,Z	i			29				
	ZV,Z	i			32				
	ZV	i			44				
	ZV	i			59				
	ZV	i			11 39				
	ZV,Z	iPKP2			47				
	Z	iPP			15 36				
	N	i			15 49				
	Z	iPP			16 59				
	N	i			17 11				
	Z	i			18 14				
	N	i			18 39				

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			h.	m.	s.				
Contd.									
5	ZN	1PcPKP	01	19	04				E, e.
	ZE	1PPP		21	49				N, e.
	Z	i		22	39				NE, e.
	E	iSKSP		26	03				N, e.
	N	i(SS)		36	19				E, e.
	E	i(SSP)		37	38				
	N	i(SSP)		40	28				
	ZNE	eL	02	22	-				
	N	M		33	-	20	41		
	E	M		33	-	20	38		
	Z	M		34	-	19	51		
		F	03	40	-				
5	Z	1PKP	18	05	04			15,830	
	Z	i		06	08				New Hebrides 16°S., 167½°E.
	Z	1PP		08	12				(U.S.C.G.S.).
	Z	1PKS		08	32				
	N	i		09	54				
	NE	iSKKS		15	06				
	NE	e		16	23				E, e.
	N	1PPP		20	01				
	NE	e(SKKS)		24	12				
	NE	e(HKSKS)		30	14				
	NE	e		35	16				
	ZNE	eL	19	10	44				
		F	20	20	-				
6	Z	1PKP	00	01	44			(15,830)	N, E, e. Dilatation.
	Z	i		03	49				New Hebrides. Damage on
	ZNE	i(PP)		05	08				Malekula. 16°S., 167½°E.
	NE	eSS		23	19				(U.S.C.G.S.).
	NE	e		29	44				
		F	02	25	-				
6	NE	e	03	30	-				Small. New Hebrides
		F	04	20	-				aftershock (U.S.C.G.S.).
8	Z	1PKP, I	07	53	11			15,400	ZV, e. Compression.
	Z	i		53	35				I, Santa Cruz Islands 11½°S.,
	NE	ePP, I		56	05				166½°E. (U.S.C.G.S.).
	ZV	eP, II		57	37			2,250	Small. II, Greece 39°N.,
	ZNE	1FP, II		57	59				22½°E. (U.S.C.G.S.).
	N	eS, II	08	01	49				
	NE	eL, II		04	15				
	NE	e(PKKS) I		06	00				
	N	e		20	17				
	E	e(SS) I		27	35				
	ZNE	eL I		45	05				
	N	M		59	-	24	19		
	E	M		59	-	24	13		
	Z	M		59	-	24	16		
		F	10	25	-				
9	E	e	14	56	35				Small.
		F		59	35				
11	NE	e	14	38	-				Small. Microseisms
		F		49	-				Ryukyu Islands 27°N., 127½°E.
									(U.S.C.G.S.).

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			h.	m.	s.				
✓ 13	ZV,Z	iP	02	15	30			8450	N,e. Microseisms. Fox Islands, Aleutian Islands. Felt Unalaska 53°N., 167½°W. (U.S.C.G.S.).
	ZV	i			43				
	ZV	i			59				
	ZV	i		16	13				
	NE	iS		25	13				
	NE	eLQ		36	04				
	NE	eLR		42	14				
	E	M		50	35	20	35		
	N	M		52	35	21	52		
	Z	M		52	35	21	32		
18	NE	e	17	50	-			Small.	
		F	18	00	-				
19	ZV	e	09	09	40			Small.	
	N	e		11	03				
	E	e		16	25				
20	NE	e	04	32	-			Small. Off West coast of Mexico. (Uppsala)	
		F		48	-				
25	NE	e	16	15	-			Small. Microseisms.	
		F		20	-				
✓ 28	ZV	eP	17	12	50			6,850	
	N	i		20	28				
	NE	iS		21	12				
	NE	e		27	34				
	NE	e		33	-				
	ZNE	eL		36	34				
	N	M		37	-	21	139		
	E	M		37	-	21	55		
Z	M	F	18	30	-	14	15		
29	NE	e	17	55	-			Small.	
		F	18	05	-				
31	ZV	iP	16	14	21			9,100	Small. Microseisms. N,e. Kurile Islands region.
	E	iS		24	34				
	NE	e		30	22				
	NE	e		40	-				
		F	17	20	-				

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			h.	m.	s.				
1	NE E	eS	19	39	19				Microseisms. Off coast of Hokkaido, Japan 42°N., 142½°E. (U.S.C.G.S.).
		eL		54	33				
		F	20	15	-				
3	E E E NE	eLQ	03	48	07				Small. Oregon Foreshock. 44½°N., 128°W. (U.S.C.G.S.).
		eLR		53	26				
		e	04	02	40				
		i		05	26				
		F		10	-				
3	E E	i	14	07	32				Small.
		i		12	04				
		F		15	-				
4	E	e(L)	05	20	-				Small.
		F		25	-				
4	NE	e(L)	05	52	-				Small.
		F	06	05	-				
4	ZV N N	iP	07	34	52			9870	Small. Mascarene Islands region E, e. 17°S., 67°E. (U.S.C.G.S.).
		iS		45	45				
		eL		58	-				
		F	08	35	-				
5	ZV E NE	iP	20	54	02			8910	Kurile Islands 46½°N., 153°E. (U.S.C.G.S.).
		iS	21	04	11				
		eL		22	-				
		F	22	05	-				

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			h.	m.	s.				
6	ZV, Z NE ZNE	eP eS eL F	01	00	13			2310	Jan Mayen Island 71°N., 13½°W. (U.S.C.G.S.).
√6	ZV, ZN NE ZNE E N	iP eS eL M M F	02	32	30			2350	Jan Mayen Islands region. 71°N., 13½°W. (U.S.C.G.S.).
				36	18				
				38	-				
				39	10	15	25		
				39	30	17	24		
			03	15	-				
10	ZV NE N	iP eL e F	00	15	12				Small. Northern Kurile Islands. Depth about 60 kms. 50°N., 156°E. (U.S.C.G.S.).
				51	-				
				55	-				
			01	00	-				
10	NE	eL F	11	03	-				Small.
				20	-				
14	NE	eL F	17	48	-				Molucca Passage 2°N., 126½°E. (U.S.C.G.S.).
			18	45	-				
15	NE N	eLQ eLR F	07	30	-				Small. New Hebrides Islands. Depth about 60 kms. 13½°S., 166½°E. (U.S.C.G.S.).
				41	-				
			08	35	-				
18	NE	eL F	08	37	-				Small. Off NE Coast of Dominican Republic. Depth about 60 kms. 19½°N., 68°W. (U.S.C.G.S.).
			09	10	-				
18	ZV, Z NE NE	iP eSS eL F	22	57	54			(5800)	Dilatation. Quetta, Baluchistan 14 killed.
			23	09	-				
				15	-				
				50	-				
21	NE	eL F	23	25	-				Small.
				40	-				
23	NE	eL F	19	21	-				Small.
				45	-				
√27/28	ZV, Z ZV Z ZV, Z ZV E ZV ZV N N N E N E	iPKPI iPKPII iPKP2 iPP I iPP II i i iPPP iSKKKS iSKSP i i i	21	03	20			17,335	Compression.
				03	24				
				03	44				
				07	30				
				07	34				
				08	04				
				08	59				
				11	02				
				15	00				
				17	51				
				22	38				
				27	19				
				36	06				
				38	37				

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			h.	m.	s.	sec.	μ	km.	
contd. 27/28	E	i	21	49	25				
	NE	eL		59	-				
	E	M	22	10	-	21	168		
	Z	M		10	-	20	131		
	N	F		11	-	20	143		
			00	30	-				
28	NE	e	01	00	-				Small.
		F		45	-				
28	ZV	i	20	55	-				Small.
	NE	e	21	40	-				
		F		55	-				

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R.G.

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SEISMOLOGICAL BULLETIN FOR MARCH, 1955

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

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			h.	m.	s.				
	1 E	e F	00	45 55	-			Small.	
✓	1 ZV, Z	iP	04	52	55		6460	N, E, e. Yukon 65°N 133°W. (U.S.C.G.S.).	
	ZV	i	05	53	04			Z, e.	
	NE	iS	05	00	56				
	NE	eSS		04	59				
	NE	eLq		09	29				
	E	M		13	00	25	40		
	N	M		13	30	25	51		
	Z	M		21	-	13	16		
		F	06	25	-				
	1 NE	e	14	27	49			Small. Yukon aftershock	
	N	e F		36 55	54 -			(U.S.C.G.S.).	
	1 NE	e	15	30	29			Small. South of Honshu, Japan.	
	NE	e		39	01			29½°N., 141½°E.	
	N	e F		47 50	29 -			(U.S.C.G.S.).	
	3 ZV	iP	20	51	59		2290	Small. Jan Mayen Island.	
	ZV	i		52	02			71½°N. 4½°W.	
	ZV	i		52	16			(U.S.C.G.S.).	
	NE	eS		55	45				
	NE	e		57	20				
	E	i		58	12			N, e.	
		F	21	06	-				

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			h.	m.	s.				
4	NE	e F	06	51 55	41 -			Small.	
5	NE	e F	03	33 45	- -			Small.	
5	NE NE N NE E	eS e e e e F	19	44 45 49 53 57	27 02 40 16 44			Small. Atlantic Ocean 11°N., 44°W. (U.S.C.G.S.).	
6	NE NE ZNE	e e e F	07	07 12 17 40	42 12 32 -			Small. Near south coast of Sumatra 2½°S., 100°E. (U.S.C.G.S.).	
6	NE ZN	e e F	11 12	51 01 30	- 17 -			Small. Foreshock. 9½°N., 122½°E. (U.S.C.G.S.).	
6	ZNE Z E Z E N Z NE Z	e e e e e e e e e F	13 14	58 11 13 16 18 24 27 30 36	04 07 27 58 32 07 37 34 42			Small. Philippine Islands. 9½°N., 122½°E. (U.S.C.G.S.).	
7	ZV,Z NE	iPKP eL F	05 06	04 59 30	28 - -			Small. New Hebrides 18°S., 169°E. (U.S.C.G.S.).	
8	NE	e F	13 14	23 00	- -			Small.	
8	NE NE	e e F	16 17	40 05 30	37 17 -			Small.	
8	NE NE	e e F	20 21	37 08 50	17 15 -			Small.	
9	Z NE	e(P) e(L) F	02 03 -	39 06 25	18 58 -			Small. Tristan da Cunha region 30½°S., 13°W. (U.S.C.G.S.)	
9	NE	eL F	10	05 25	48 -			Small. Off north coast of Formosa. Felt Taipei (U.S.C.G.S.).	
10	NE NE ZNE	e(I) e(II) eL(II)	21 22	50 15 36	00 55 40			Small. I Northern India. 32½°N., 77°E. II Samoa Island. Felt Apia 13½°S., 173½°W. (U.S.C.G.S.).	
		F	50	-				Overlapping.	

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			h.	m.	s.				
14	NE	e F	05	10	24				Small.
14	ZV,Z	iP	13	23	44			8500	Small. E-W not recording. Depth about 100 km. Andreanof Island Aleutians. 52½°N., 173½°W. (U.S.C.G.S.).
	Z	iP		24	20				
	Z,N	iSP		24	34				
	Z	ePPP		28	16				
	N	eS		33	16				
	N	e(SS)		38	59				
	N	F	14	30	-				
16	NE	e F	20	58	-				Small. Hindu Kush 38°N., 71°E. (U.S.C.G.S.).
16	NE	eL F	22	43	39				Small. Easter Islands region 26½°S., 115°W. (U.S.C.G.S.).
17	NE	e F	02	00	34				Small.
18	ZV,Z	iP	00	18	18			8490	Compression N,E,e. Near east coast of Kamchatka 54½°N., 161°E. (U.S.C.G.S.).
	NE	eS		28	03				
	N	iPS		28	39				
	NE	eSS		33	08				
	NE	ePKKS		40	37				
	E	M ₁	01	00	-	15	35		
	N	M ₁		05	30	19	35		
	Z	M ₁		07	-	13	22		
	ZN	e	02	32	33				
	E	M ₂		36	-	22	9		
	N	M ₂		40	-	22	28		
	Z	M ₂		40	-	20	18		
		F	03	50	-				
18	ZNE	e F	06	57	58				Small.
18	NE	e F	19	40	42				Small.
				20	30				
19	NE	e	05	11	32				Small.
	NE	e		17	52				
	NE	e		24	22				
		F	06	10	-				
19	NE	e F	07	03	32				Small.
				20	-				
21	ZNE	e F	05	40	-				Small.
			06	00	-				
21	N	e	13	41	37				Small. Depth 100 Km. China-Burma border. 26°N., 98½°E. (U.S.C.G.S.).
	NE	e		42	16				
		F		52	-				

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22	ZV,ZE	iP	02	37	45			2270	Small. N.Atlantic Ocean, E,e. 45°N., 28°W. (U.S.C.G.S.).
	N	iS		41	29				
	NE	e		42	34				
		F	03	05	-				
22	ZV	i(P)	06	25	30				Burma 26°N., 98½°E. (U.S.C.G.S.). N,e.
	NE	e(L)		51	46				
	E	i		54	02				
		F	07	12	-				
22	ZV,Z	i ?	14	19	50			(11,000)	Possibly L from Yukon 65½°N., 133°W. NE,e. Indian Ocean 8½°S., 92°E. (U.S.C.G.S.).
	ZV,Z	iPP		22	48				
	ZNE	eSKS		29	20				
	NE	ePS		31	47				
	E	eSS		36	57				
	E	e		40	59				
	E	e		45	12				
	NE	e		52	34				
	ZNE	eL	15	05	20				
	N	M		05	30	20			
Z	M		07	-	20				
E	M		07	-	21				
		F	16	55	-				
23	NE	e	18	40	20				Small.
	NE	e		50	10				
		F	19	20	-				
26	NE	e	02	01	-				Small.
		F	03	05	-				
26	NE	e	03	33	-				Small.
		F	04	30	-				
27	ZV,Z	i(PP)	14	49	44			13,390	Small. NE,e.
	Z	i(PPP)		52	18				
	N	e		58	42				
	E	e	15	02	06				
	NE	e(SS)		06	14				
	NE	eL		15	20				
		F	30	-					
28	ZV,ZE	iP	01	03	55			2,620	Compression; Small.
	ZV	i		04	06				
	NE	eS		07	59				
	ZNE	eL		09	42				
		F		30	-				
28	ZE	eP	14	50	42			(2,170)	Small.
	ZNE	eS		54	17				
	ZNE	eL		57	26				
		F	15	20	-				
31	ZV,ZNE	iP	18	31	32			11,520	Compression. Mindanao, Philippine Islands Many casualties.
	ZNE	iPP		35	41				
	ZNE	iSKS		42	05				
	NE	i		42	11				
	ZNE	iPS		45	05				
	NE	e		50	-				
	NE	e		55	03				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MARCH, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.	sec.	μ	km.	
contd. 31	ZNE	eL	19	05	-				
	E	M		15	-	23	218		
	N	M		21	-	21	242		
	Z	M		21	-	21	173		
		F	21	40	-				
31	NE	e	21	45	-				Small. Aftershock.
	ZNE	e		57	-				
		F	22	25	-				

METEOROLOGICAL OFFICE EDINBURGH

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

30 MAY 1955

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL, 1955.

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 .	$\frac{Ak}{w}$ 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 Sept. 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.			PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
			h.	m.	s.				
1	N	eL F	00	35	-				Small. Phillipine Islands aftershock. 8°N., 124½°E. (U.S.C.G.S.).
1	ZV,Z E ZNE	iP eSSS eL F	18	45	27				Compression (?) Iceland 64°N., 21°W. (U.S.C.G.S.).
4	ZV,Z E Z E E NE NE	iP iSKS iPS eSS e eLR1 eLR2 F	11	24	29			(10,110)	Near south coast Formosa 22°N., 121°E. (U.S.C.G.S.).
4	ZV,Z E NE	iP eS eL F	19	36	06			8,665	Nicaragua 13°N., 87°W. (U.S.C.G.S.).
5	NE	e(L) F	14	49	-				Formosa 23°N., 121°E. (U.S.C.G.S.).
5	ZV,Z ZV NE NE Z NE	eP iP eS iS iPS iPPS	15	21	45			9,050	Compression. Gulf of California 25°N., 110°W. (U.S.C.G.S.).

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.						sec.	μ	km.	
5	E	e	15	33	54				
	E	e		35	12				
	NE	eSS		37	13				
	NE	iLQ		43	16				
	NE	eLR1		46½	-				
	NE	eLR2		49	-				
		F	18	00	-				
6	ZV	eP	13	04	04			(9,800)	Mascarene Islands region.
	NE	eS		14	49				17½°S., 66½°E. (U.S.C.G.S.).
	N	eSS		21	02				
	N	e		27½	-				
		F	14	05	-				
6	E	e	21	03	-				Small. Indian Ocean
		F		10	-				33½°S., 87°E. (U.S.C.G.S.).
10	ZV	eP	17	52	44			(11,350)	8°N., 125°E. Philippines
	E	ePS	18	06	44				aftershock. Many injured,
	N	eSS		11	36				mod. damage in Lanao
	NE	eLR		30	-				province. (U.S.C.G.S.).
		F	19	15	-				
13	ZV	iP	20	50	38			2440	37½°N., 22°E. Southern
	NE	eS		54	36				Greece (U.S.C.G.S.).
	NE	eLR1		57	-				
	NE	eLR2		58	-				
		F	21	15	-				
✓ 14	ZV, Z	iP	01	40	37			8,330	Compression. Sikiang
	ZNE	iPoP		40	46				Province, China. 30°N.,
	Z	iPPP		45	21				101½°E. (U.S.C.G.S.).
	NE	iS		50	15				39 killed.
	N	eSS		54	53				
	N	e(SSS)		58	07				
	NE	eLR	02	03	-				
	N	M		09	-	28	406		
	E	M		09½	-	28	363		
	Z	M		15½	-	13	101		
		F	05	00	-				
✓ 15	ZV, Z	iP	03	49	59			5,720	Compression.
	ZE	ePcP		51	15				Kirghiz S.S. R.
	ZE	ePP		52	00				40°N., 74½°E. (U.S.C.G.S.).
	ZNE	iS		57	19				
	NE	eScS		59	53				
	NE	eSS	04	00	54				
	NE	eLR		04	-				
	N	M		10	-	20	>480		
	E	M		10	-	20	300		
	Z	M		14	-	15	123		
		F	-	-	-				Overlapped.
✓ 15	ZV	iP	04	22	32			5,700	40°N., 75°E. Kirghiz
	NE	eS		29	51				aftershock (U.S.C.G.S.).
	E	eSS		33	29				
	N	eL		37	-				
	N	M		43	-	20	270		
	E	M		43	-	20	120		
		F	07	30	-				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.		
			h.	m.	s.						
17	ZV,N	1P	18	47	11			8,335	52°N., 159½°E. Off coast of Kamchatka. Depth about 60kms. (U.S.C.G.S.).		
	Z	ePcP		47	26						
	NE	eS		56	49						
	E	eSS	19	01	45						
	N	e(SSS)		05	45						
	NE	eLR1		12	-						
	NE	eLR2		19½	-						
	F		21	45	-						
18	NE	e(L)	09	35	-				Small.		
		F		55	-						
19	ZV,Z	1P	16	52	00			2,220	Compression. 39½°N., 23°E. Near east coast Greece. Many killed, extensive prop. damage Volos(U.S.C.G.S)		
	NE	eS		55	39						
	NE	eLR		57½	-						
	E	M		59	-						
	N	M		59	-						
	F		18	00	-	22 19	43 122				
19	Z	eP	20	38	13			11,555	Off coast of Chile		
	Z	ePP		42	31						
	Z	e		46	55						
	NE	eSKS		48	51						
	Z	e		49	33						
	E	ePS		51	40						
	E	e		56	03						
	E	eSS		57	38						
	Z	e		59	35						
	N	e(SSS)	21	01	17						
	NE	e		05	03						
	N	e(LQ)		08	-						
		F		23	55					-	
20	(Z	e	02	30	28)				Aftershock		
	NE	e		37	17						
	E	e		39	58						
	NE	e(L)	03	00	-						
	F		55	-							
20	NE	e(SKS)	06	13	11				Aftershock		
	E	e(PS)		15	58						
	NE	e		21	24						
	NE	eL		36	-						
	F		07	45	-						
20	NE	e(L)	10	40	-				Small.		
		F	11	05	-						
21	ZV,Z	1P	07	22	59			2,220	NE,e. Compression. 2nd. Volos shock. Greece. Further property damage.		
	NE	eS		26	40						
	NE	eLR		28½	-						
	F		08	10	-						
22	NE	eL	01	59	-				Small.		
		F	02	15	-						
22	NE	N	e	10	12	06				Small.	
						16					-
						30					-

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL, 1955

DATE	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
23	NE	e F	03	22	-				Small.
				40	-				
23	NE	e	04	45	-				Small.
	NE	eL		53	-				
		F	05	20	-				
23	ZV,Z	e	18	47	47				Small.
	E	e		56	26				
	E	e	19	06	02				
	NE	eL		26	-				
		F	20	00	-				
24	ZV,Z	1P	13	08	37			5,980	
	N	1S		16	11				Afganistan
	N	1ScS		18	27				
	NE	e(SS)		20	21				
	NE	eLR		24	-				
		F	14	20	-				
26	N	e	03	37	-				Small.
		F	04	10	-				
28	Z	1P	19	17	09			8,445	
	E	e(S)		26	51				
		F	22	15	-				
30	ZV	e	01	44	26				Small.
	ZV	e		45	02				
	ZV	e		55	54				
	NE	e(L)	02	04	-				
		F	03	05	-				
30	NE	eL	14	53	-				Small.
		F	15	15	-				

No. 591

30 JUN 1955

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY, 19 55

Lat. 51° 28' 8" 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 Sept. 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.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
✓ 1	ZVZ	iP	10	07	49	20	35	9,300	Compression. Off coast of northern Honshu, Japan. 39½°N., 143½°E. (U.S.C.G.S.). N,e.
	ZV	i		08	00				
	Z	ePP		11	03				
	NE	iS		18	12				
	E	iSS		23	44				
	NE	e(SSS)		26	36				
	NE	eL		34	48				
	N	M		44	30				
	E	M		44	30				
	Z	M		52	-				
	F		11	30	14	10			
✓ 1	Z,ZV	iP	14	11	18	21	22	9,300	Honshu aftershock.
	Z	e		12	13				
	Z	ePP		14	33				
	NE	iS		21	38				
	NE	ePS		22	43				
	E	eSS		27	12				
	NE	eL		38	-				
	E	M		48	-				
	N	M		48	-				
	Z	M		55	-				
	F		15	50	14	6			
3	NE	e	17	45	42	21	22		Small Near coast of northern Z,e. Honshu, Japan. 39½°N. 143°E. (U.S.C.G.S.).
	NE	eL		52	58				
		F		18	20				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	mi.	s.				
6	NE	eL F	00	51	46				Small. Japan 40°N., 143°E. (U.S.C.G.S.).
6	Z ZN ZN ZE	eP iS eSS i F	11	47	04		(3800)		Small. N. Atlantic (Uppsala)
			12	20	-				
8	ZV E N	iP eS eL F	21	42	39		(1800)		Small. North Africa (Uppsala)
			22	00	-				
11	ZV,Z EN Z NE	eP eS e eL F	11	16	26		(9,100)		Small. Ecuador. Minor damage. 0°. 78°W. (U.S.C.G.S.).
			12	30	-				
11	NE	eL F	16	40	-				Small. Near east coast of Honshu, Japan. 36°N., 140½°E. (U.S.C.G.S.).
			17	00	-				
11	ZNE	eL F	17	35	-				Small. Off N.coast Luzon Philippines 19½°N., 121½°E. (U.S.C.G.S.).
			50	-					
13	ZV ZV,Z ZV N NE N EN	eP e iPcP eS eScS e eL F	03	40	01		(6,600)		Small. Virgin Islands region. Felt San Juan, Puerto Rico 19½°N. 64°W. (U.S.C.G.S.).
			04	50	-				
13	NE NE	e e F	20	03	03				Small.
				05	-				
				10	-				
13	N NE	e e F	20	37	10				Small.
				39	59				
			21	20	-				
14	ZV,Z ZV EN NE NE	iP epP ePcS e(S) e(ScS) F	13	44	27		(5,800)		Small. Depth about 200 Km. Hindu Kush 37°N., 71½°E. (U.S.C.G.S.).
			14	00	-				
14	NE	e F	19	14	43				Small.
				25	-				
17	ZV,Z Z Z Z NE NE	iP i iPP i iS e(SSS)	15	02	41		9260		Nicobar Islands 7°N., 94½°E. (U.S.C.G.S.).
				04	36				
				05	58				
				09	02				
				13	02				
				22	40				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.						sec.	μ	km.	
17	E N NE M E Z	e(FKKS) e eL M M M F	15	24 25 30 44 49 57	02 12 - - - -	23 21 15	139 95 39		
18	NE	e F	15	12 55	- -				Small.
20	EN	e F	11	31 40	37 -				Small.
21	NE	eL F	04	15 55	- -				Small.
22	ZV ZNE ZV,ZNE ZV,Z ZE	i i i i e F	05	01 02 02 02 03 06	41 23 41 59 17 25				N,e. Small.
23	ZV Z Z ZE N E NE NE	i(PKP) i i e(PPP) e(PS) e e eL F	18	01 01 01 06 13 17 23 45 00	24 35 57 16 04 18 16 - -		(13,500)		Z,e. Small. Analysis very doubtful.
25	NE	eL F	03 04	44 10	- -				Small.
25	ZV, ZE Z N NE	iP e eS eL F	12	29 30 33 34 10	50 41 22 22 -		(2150)		Small. E,e.
26	Z Z Z ZNE Z NE N E Z NE NE N E NE	ePKP iPP e ePKS i e e e e ePPP eSS e eSSS eL F	16	42 45 45 46 46 47 52 56 57 58 03 05 08 26 55	34 19 47 11 39 35 34 47 15 34 14 07 11 - -		15,000		Small.
26	NE	eL F	21 22	57 50	- -				Small.

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
28	ZV	ipP	06	34	03			10,500	Small. Depth about 100 Km.
	Z,ZV	ePPP		39	42				
	E,N	iS		44	24				
	E	isS		45	20				
	E	e		48	15				
	N	eSS		50	48				
	E	eSSS		55	20				
	F		07	40	-				
29	NE	e	04	50	30				Small.
	F		05	15	-				
29	ZV,Z	eP	13	42	45			8,000	Small.
	NE	eS		52	05				
	NE	eL	14	06	-				
	F			45	-				
29	ZV,Z	eP	15	53	16			(11,000)	
	ZV,Z	e		53	31				
	Z	ePP		57	09				
	NE,Z	ePPP		59	26				
	EZ	e	16	02	45				
	EZ	eSKS		03	59				
	EZ	eS		04	41				
	EN	e		07	36				
	EN	eL		30	02				
	N	M		43	30	20	13		
	E.	M		46	40	20	15		
	Z	M		46	40	20	11		
	F		18	20	-				
29	Z	e(P)	21	15	37			(6,700)	Small.
	Z	e		15	55				
	NE	e(S)		23	49				
	NE	eL		37	31				
	F		22	25	-				
30	ZV	iP	12	44	18			10,550	Ze. Depth about 550 Kms. N,e.
	ZV,Z	epP		46	22				
	Z	esP		47	30				
	ZV,Z	ePP		48	18				
	ZNE	i		48	27				
	Z	iPPP		50	35				
	Z	isPP		51	23				
	NE	iSKS		53	59				
	ZNE	iS		54	38				
	ZE	i		54	52				
	ZNE	i (pSKS)		56	23				
	ZN	ePS		57	20				
	NE	e	13	00	20				
	NE	e(SS)		01	48				
	NE	eSSS		05	06				
	NE	e		10	00				
	N	M		24	-	25	14		
	E	M		24	-	25	17		
	Z	M		36	-	18	9		
	F		15	20	-				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
30/31	ZV,Z	i(P)	23	45	45				Small.
	Z	e		46	12				
	ZV,Z	i		46	26				
	ZV,Z	i		46	44				
	ZV,Z	i		47	25				
	ZV,Z	i		47	43				
	Z	i		49	59				
	E	e(s)		55	23				
	NE	e		56	53				
	NE	e	00	03	23				
EN	e		06	48					
NE	e		20	-					
	F		01	10	-				
31	NE	e	01	17	33				Small.
		F	02	00	-				
31	ZV,Z	iP	18	10	15			9100	E,e. Small. E,e.
	Z	ePP		13	28				
	ZN	ePPP		15	15				
	NE	ePS		21	17				
	N	eLQ		34	13				
	NE	eLR		40	-				
		F		19	20	-			

M.O. 591

28 JUL 1955

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE, 1955.

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

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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.			PERIOD. sec.	AMPLI- TUDE. μ	Δ km.	REMARKS.
			h.	m.	s.				
2	ZV,Z	iP	00	30	57		(8700)	Compression. Andreanof Islands.Aleutians 51½°N., 180 (U.S.C.G.S.).	
	Z	iPcP		31	04				
	N	eS		40	52				
	N	iPS		41	43				
	N	eSS		46	16				
	NE	eLR		56	-				
	F		-	-			Overlapped.		
2	ZV	iP	02	14	08		(8700)	Aftershock. 51½°N., 180 (U.S.C.G.S.).	
	N	ePS		25	01				
	E	eSS		29	26				
	E	eLR		40	-				
	F		03	30	-				
2/3	ZV,Z	iP	23	39	22		(2450)	Northern Greece(U.S.C.G.S.)	
	N	eS		43	22				
	NE	eLR		45½	-				
	F		00	05	-				
3	N	e	11	45	-			Small. Near West coast Norway. Felt S.W. Norway 61°N., 6°E. (B.C.I.S.)	
	ZV,Z	i		46	16				
	F			50	-				
4	Z	iP	17	03	49		(9100)	Off coast of N. Honshu, Japan. 40°N., 142½°E. Depth about 60 kms(U.S.C.G.S.)	
	NE	eS		14	03				
	NE	eL		31½	-				
	F		18	25	-				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
5	ZV	iP	02	05	17		(8700)	Andreanof Islands. Aleutians. 51½°N., 180 (U.S.C.G.S.)	
	N	eS		15	09				
	N	ePS		16	03				
	N	eLR		31	-				
		F	03	20	-				
5	NE	eS	06	34	43			Near NE coast Formosa 24½°N., 122°E. Felt Taipei (U.S.C.G.S.)	
	NE	eL		54	-				
		F	07	40	-				
5	ZV, ZN	iP	14	59	55		(1700)	Compression. Near Oleansville, Algeria. 36½°N., 1½°E. (U.S.C.G.S.)	
	Z	iPPP	15	00	30				
	E	eS		02	47				
	E	eL		03½	-				
		F		40	-				
7	ZV	iP	01	00	49		8445	Sikang province, China. 27½°N., 101°E. (U.S.C.G.S.)	
	E	iS		10	32				
	E	eSSS		19	14				
	NE	eL		26	-				
		F	02	15	-				
12	ZV, Z	iP	20	42	47		(8600)	Kurile Islands. 49°N., 155°E. (U.S.C.G.S.)	
	E	eS		52	38				
	NE	eL	21	12	-				
		F		55	-				
14	Z	iP	06	24	05		(9300)	Off coast of Colima, Mexico. 20°N., 107°W. (U.S.C.G.S.)	
	N	eS		34	27				
	N	eSS		40	15				
	NE	eLQ		46½	-				
		F	09	00	-				
14	NE	eLR1	18	02	-			Near E. coast Honshu, Japan. 36½°N., 141½°E. (U.S.C.G.S.)	
	NE	eLR2		10	-				
		F		45	-				
18	NE	eL	16	57	-			Near E. coast Formosa. 24°N., 122°E. Felt Taipei (U.S.C.G.S.)	
		F	17	15	-				
20	ZV, Z	iP	12	19	26		(8550)	Andreanof Islands. Aleutians. 51½°N., 180 (U.S.C.G.S.)	
	Z	iPeP		19	34				
	NE	eS		29	13				
	N	eSS		34	08				
	NE	eL		45½	-				
		F	15	15	-				
27	ZV, Z	iP	10	24	11		6520	Dilatation.	
	N	iS		32	15				
	E	e(SS)		37	05				
	N	eLR		42	-				
		F	11	30	-				
28	Z	iP	04	35	24		(4220)		
	NE	eS		41	17				
	E	e		44	03				
		F	05	25	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
28	ZNE	e F	07	23	-				Small.
				30	-				
29	NE	eL F	05	43	-				
			06	25	-				

UNIVERSITY OF TORONTO LIBRARY

1971 JUN 15

STATION	TIME	MAGNITUDE	DEPTH	LATITUDE	LONGITUDE
1971 JUN 15	12:00	2.5	10	43.0	-80.0
1971 JUN 15	12:05	2.5	10	43.0	-80.0
1971 JUN 15	12:10	2.5	10	43.0	-80.0
1971 JUN 15	12:15	2.5	10	43.0	-80.0
1971 JUN 15	12:20	2.5	10	43.0	-80.0
1971 JUN 15	12:25	2.5	10	43.0	-80.0
1971 JUN 15	12:30	2.5	10	43.0	-80.0
1971 JUN 15	12:35	2.5	10	43.0	-80.0
1971 JUN 15	12:40	2.5	10	43.0	-80.0
1971 JUN 15	12:45	2.5	10	43.0	-80.0

1 SEPT 1955

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JULY, 1955.

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 Sept. 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.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
3	ZV,Z	eP	14	38	27			(8660)	Rat Islands, Aleutians 52°N., 178°E. (U.S.C.G.S.).
	ZV,Z	i			38				
	ZV,Z,N	i			46				
	N	e			43 57				
	NE	e			46 00				
	NE	eS			48 20				
	N	e			52 57				
	E	e			54 17				
	N	e			57 20				
	NE	e			15 00 17				
NE	eL	04 -							
	F	16 25 -							
4	ZV,Z	iP	14	31	42			(8600)	Z,e. Rat Islands, Aleutians 51½°N., 177°E. (U.S.C.G.S.).
	ZV	i			53				
	ZV,Z,N	i			32 01				
	Z	i			30				
	NE	ePP			34 30				
	NE	eS			41 33				
	NE	eSS			46 53				
	E	eL			56 41				
	F	15 50 -							
4/5	NE	eL	23	52	-				Near E coast of Mindanao, Phillipines. (U.S.C.G.S.).
		F			00 25 -				
6	ZV,Z,N	iP	02	06	06			8320	Compression Kamchatka 51°N., 158°E. (U.S.C.G.S.).
	Z	i			45				
	E	i			09 28				
	NE	e			15 27				
	NE	iS			43				
	NE	eL			28 30				
		F			03 25 -				

M.O. 591

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
6	N	eL F	04	12	-				
				35	-				
7	NE	eL F	05	35	-				Near E coast of Nicaragua 12½°N., 88°E. (U.S.C.G.S.).
				50	-				
8	ZV,Z	iPKP1	18	57	59				Fiji Islands. Depth about 600 Km. 20½°S., 179½°W. (U.S.C.G.S.).
	ZV,Z	iPKP2		58	07				
	ZV,Z	e	19	00	07				
	Z	e			52				
		F		05	-				
9	Z	e	19	02	59				
	Z	i		03	25				NE, e.
	Z	e		05	12				
	ZNE	e			23				
		F		07	-				
9/10	ZVZ	eP	23	58	08			2,200	Northern Greece 40½°N., 22°E. (U.S.C.G.S.).
	ZNE	eS	00	01	47				
	ZNE	eL		03	37				
	ZNE	i		04	23				
	ZE	e		08	22				
		F		20	-				
10	ZNE	e	04	28	19				
	ZNE	e		30	19				
		F		40	-				
10	ZVZ	iPKP1	14	40	42				Tonga Islands 20°S., 175½°W. (U.S.C.G.S.).
	Z	i			52				
	Z	iPKP2			59				
	Z	i		41	11				
	ZNE	e		50	32				
	E	e		58	55				
		F	16	50	-				
11	Z	e	16	01	02				
	NE	e		14	07				
	NE	e		24	47				
		F		35	-				
11	ZV,Z	eP	20	30	44			5970	Atlantic Ocean 1½°S., 13°W. (U.S.C.G.S.).
	ZN	i			52				
	Z	i		31	59				
	Z	iPP		32	37				
	Z	ePPP		34	11				
	N	eS		38	17				
	N	i			23				ZE, e.
	NE	eL		47	-				
		F	21	30	-				
12	ZV	e(P)	14	53	11			(5900)	
	ZV	e			27				
	NE	e(S)	15	00	41				
	N	e(L)		08	33				
	NE	e		15	-				
		F		30	-				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
12	NE	eL F	15 16	45 15	- -				
13	Z Z NE	e e eL F	19 20	33 35 49 20	28 13 - -			Solomon Islands 6°S., 154½°E. (U.S.C.G.S.).	
13	Z Z ZN ZNE ZN	e e e e e F	20 21	35 38 42 44 45 30	35 14 16 52 46 -				
14	ZV,Z Z NE NE	iP e eS eL F	10 11	04 05 14 31 30	23 53 53 - -		(11,000)	NE,e. Nicobar Islands 8½°S., 94°E. (U.S.C.G.S.).	
16	ZV,ZNE E N E N Z NE Z N E Z	iP i i(s) i i i eL e M M M F	07 09	12 16 19 21 21 23 23 30	24 23 39 47 49 58 - - - - - -	18 14 14	550 219 168	(2670) Dilatation from SE Dodecanese Islands. Extensive damage on Samos. 37°N., 27½°E. (B.C.I.S.).	
16	NE	eL F	13	38 55	- -				
17	NE	e F	08 09	35 05	- -			Kurile Islands 46½°N., 153°E. (U.S.C.G.S.).	
17	ZV NE NE NE	i e e eL F	21 20 23	50 04 19 35 25	44 - - - -				
20	ZV,Z ZV Z NE NE NE NE	iP i e eS e e eL F	00 01	03 04 12 15 26 20	40 46 39 57 41 59 - -		(7,900)		
21	Z ZV,Z Z	iP ipP i	11 12	58 59 02	42 06 44		9,550	Depth about 100 Km. N,e.	

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY, 1955.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.									
21	ZNE	iS	12	09	06				
	ZE	iPPS		10	42				
	Z	e		13	12				
	NE	e		14	04				
	NE	e		22	54				
	NE	e		24	36				
	NE	eL		27	-				
		F	13	10	-				
23	NE	eL	11	05	-				
		F		30	-				
23	ZV,Z	i(P)	13	08	43			(8,800)	
	NE	e(S)		18	45				
	NE	e(SS)		24	06				
	NE	eL		48	-				
		F	14	05	-				
23	N	e	14	09	58				
	NE	e		15	10				
	NE	e		21	40				
	NE	e		22	04				
	NE	eL		50	-				
		F	15	20	-				
24	NE	eL	02	20	-				
		F		50	-				
24	ZV,Z	iP	11	14	50			9,500	
	NE	iS		25	22				
	NE	eL		41	30				
		F	12	25	-				
24	ZV,Z	iP	16	33	05			(9,300)	
	ZV	i			10				
	Z	ePP		36	42				
	E	eS		43	26				
	NE	eSS		48	40				
	E	e		55	20				
	NE	eL	17	01	-				
		F		50	-				
26	ZV,Z	iP	04	15	34			(7,900)	
	NE	eS		24	50				
	NE	e		26	06				
	N	eSS		29	42				
	NE	eL		39	-				
		F	05	30	-				
27	ZV	iP	01	33	34			(9,500)	
	ZV	i		34	20				
	NE	e(S)		44	06				
	NE	e		46	18				
	E	e		55	40				
	NE	eL	02	00	20				
		F		45	-				
✓27	ZV,Z	iP	18	30	24			(8,000)	N,e
	Z	iFP		33	07				
	NE	eS		39	45				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.
SEISMOLOGICAL BULLETIN.

JULY, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.									
27	NE	eSS	18	44	05				
	NE	e		47	57				
	NE	eL		53	-				
	N	M	19	03	-	17	11		
	E	M		03	-	17	12		
	Z	M		06	-	15	9		
		F	20	30	-				
28	NE	e	02	51	-				
		F	03	30	-				
29	NE	eL	22	39	-				
		F	23	20	-				

M.O. 591.....

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

28 SEP 1955
R

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR..... AUGUST, 19 55

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. 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 Sept. 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.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
1	E	e F	04	00	-	sec.	μ	km.	Small. Sandwich Islands region. U.S.C.G.S.
2	NE	e F	17	39	-				Small.
3	ZV	e F	09	15	-				Small.
3	NE	e F	17	45	-				Small. Eastern Tibet. U.S.C.G.S.
3	NE	e F	23	20	-				Small. Sikang Province, China. U.S.C.G.S.
4	ZV	e(P)	06	51	27				30 $\frac{1}{2}$ °N., 86 $\frac{1}{2}$ °E. Tibet. U.S.C.G.S.
	NE	e(s)	07	00	10				
		eL F		17 $\frac{1}{2}$	-				
4	NE	e F	16	3	-				Small.
5	ZV,NE	e F	03	50	-				Small. 17 $\frac{1}{2}$ °N., 106°W. Off coast of Colima, Mexico.
			04	16	-				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1955.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.	
			h.	m.	s.					sec.
6	ZV,Z	iPKP ₁	08	50	33			16400	Compression. Depth about 350 Km. 21½°S., 177½°W. Tonga Islands region. Depth about 350 Km. Mag. 6¾ (Pas.) U.S.C.G.S.	
	ZV,ZN	iPKP ₁		52	07					
	Z	isPKP ₁		53	13					
	E	i		53	27					
	Z	iPP		54	08					
	Z	i		55	31					
	ZV,Z	iPP		55	36					
	ZN	i		55	45					
	ZN	isPP		56	05					
	N	e(SKS)		56	40					
	Z	i		56	47					
	ZV,Z	i		56	57					
	ZV,Z	iPPP		57	35					
	N	e		57	56					
	ZV,Z	epPPP		58	56					
	ZE	i		59	16					
	Z	i		59	51					
	ZN	iSKKS	09	00	28					
	E	i		01	20					
	N	i		01	38					
	ZV,Z	i		01	43					
	ZN	eSKSP		03	51					
	ZV,ZN	iPSKS		04	32					
-	-	-	-	-	-			No records from 09h. 5m. - 09h. 11m. due to changing of the charts..		
N	i(SS)		13	14						
NE	e(SSS)		14.8	-						
NE	e		20	06						
NE	eLq		30	-						
	F		11	45	-					
9	ZV,NE	e	07	52	-			V. Small.		
			08	15	-					
10	NE	e	02	28	-			V. Small.		
				55	-					
10	ZV	e	05	57	-			V. Small. 2°S., 151°E. New Zealand region. U.S.C.G.S.		
			06	50	-					
10	NE	e	15	39	-			Small. 44°N., 144½°E. Near north coast of Hokkaido, Japan. U.S.C.G.S.		
			18	15	-					
11	NE	e	07	31	-			V. Small.		
			08	10	-					
✓ 14	Z	e	17	03	-			18000	Small. 33°S., 179°W. Kermadec Islands region. U.S.C.G.S.	
					03.6	-				
					06	07				
					07	26				
					07	54				
					09	24				
					10	23				
					12	25				
					14	17				
					16	07				
					34	-				
					56	-				
					18	05	-			

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
contd. ✓ 14	N E Z	M M M F	18	15	-	20	3		
				15	-	20	3		
				15	-	20	3		
				59	-				
15	N	e F	17	28	-				Small. 27°N., 95°E. Assam, India. U.S.C.G.S.
				50	-				
16	NE	e F	04	56	-				Small. 12½°N., 88½°W. Off coast of El Salvador. U.S.C.G.S.
			05	20	-				
✓ 16	ZV, Z	iPKP	12	05	54			14600	Depth about 200 Km.
	Z	iPKP		06	46				
	Z	iPP		08	07				
	ZV	i		08	13				6°S., 155°E. Solomon Islands. Depth about 200 Km. Mag. 7¼ (Pas.) U.S.C.G.S.
	Z	eSKP		08	32				
	Z	i		08	44				
	ZNE	iPKS		09	01				
	ZV, Z	iPP		09	05				
	ZV	i		09	20				
	Z	iSP		09	36				
	NE	eSPKS		10	08				
	Z	i		10	27				
	NE	e		10	29				
	ZNE	e(SKS)		12	49				
	Z	i		12	59				
	Z	i		14	16				
	NE	i(SKKS)		14	49				
	NE	e		16	03				
	Z	i		16	30				
	Z	i(SP)		17	53				
	NE	i		17	55				
	N	i(pPS)		19	03				
	ZN	iPPS		19	46				
	ZN	e		20	53				
	NE	iSS		25	31				
	N	iSS		27	41				
	NE	eLQ		40½	-				
	NE	eLR		48½	-				
	N	M		51	-	36	15		
	E	M		51	-	34	14		
		F	13	40	-				
16	NE	e F	19	48	-				Small. 12½°N., 86½°W. Nicaragua. U.S.C.G.S.
			20	02	-				
17	NE	e F	08	54	-				Small.
			09	00	-				
✓ 21	Z	eP	17	49	34			13000	
	ZN	iPP		54	28				
	NE	e		54	40				3°S., 137½°E. New Guinea. Mag. 3¾-7 (Pas.) (Berk). U.S.C.G.S.
	Z	iPPP		57	06				
	Z	e		57	24				
	Z	i		58	36				
	NE	eSKS		59	51				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST, 1955.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.									
21	ZNE	1SKKS	18	01	08				
	N	e		02	05				
	Z	iSP		04	10				
	NE	iPS		04	12				
	N	i		04	42				
	NE	ePPS		05	27				
	Z	iSKKP		06	26				
	ZNE	eS		10 ¹ / ₂	-				
	NE	i		11	00				
	NE	i		11	43				
	E	i		13	59				
	E	eLQ		23	-				
	NE	eL ₁		29	-				
	NE	eL ₂		40	-				
	Z	M		47	-	22	21		
	N	M		47	-	22	28		
	E	M		48	-	21	19		
		F	20	16	-				
23	NE	e	14	40	-				
		F	15	05	-				Small. 31°N., 71 ¹ / ₂ °E. Central Pakistan. Depth about 60 Km. U.S.C.G.S.
✓ 23	ZV,Z	eP	15	44	25			8300	
	ZV	ePP		47	12				
	ZV	e		47	26				
	Z	ePPP		49	06				
	Z	e		53	35				
	NE	eS		54	02				
	N	ePPS		54	41				
	Z	e		57	16				
	ZNE	eSS		58	38				
	NE	eSSS	16	02	-				Small.
	NE	eLQ		04	-				
	NE	eLR		07	-				
	N	M		17	-	18	5		
	Z	M		18	-	18	6		
	E	M		18	-	18	6		
		F	17	00	-				
24	NE	e	07	36	-				
		F		35	-				V. Small. 44 ¹ / ₂ °N., 129 ¹ / ₂ °W. Off coast of Oregon. U.S.C.G.S.
26	NE	e	09	45	-				
		F	11	05	-				Small.
28	ZV,Z	eP	13	44	36			2800	
	ZV	e		45	06				Small.
	ZV	ePP		45	16				
	NE	eS		48	58				
	Z	e		49	07				
	Z	e		49	36				
	N	eLR		51 ¹ / ₂	-				
	ZE	eScS		55	22				
		F	14	10	-				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN.

AUGUST, 19 55.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
28	ZV,Z	eP	20	25	36			(9000)	14°N., 91°W. Near coast of Guatemala. Depth about 60Km. Mag. 6 $\frac{3}{4}$ (Pas). (Berk). U.S.C.G.S.
	Z	iP		25	40				
	E	i		25	41				
	ZV	i		25	56				
	ZV	i		26	08				
	Z	iPP		28	30				
	ZV	i		28	54				
	ZV	i		29	02				
	Z	e(PPP)		30	32				
	ZE	eS		35	32				
	Z	ePS		36	20				
	ZE	ePPS		36	44				
	NE	eSS		40	-				
	NE	eSSS		44	$\frac{1}{2}$				
	NE	eLQ		47	-				
	NE	eLR		51	$\frac{1}{2}$				
	Z	M		21	01	-	20		
N	M			01	-	20	20		
E	M			01	-	20	34		
	F		24	00	-				
29	NE	e	08	25	-			V. Small.	
		F	09	50	-				
29	Z	e(P)	15	46	00			Small. 51°N., 178 $\frac{1}{2}$ °W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.	
		e(PP)		48	56				
		e(S)		56	-				
		F	17	07	-				
31	NE	e	11	58	-			V. Small.	
		F	12	26	-				

M.O. 591

OFFICE
EDINBURGH
AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON,

26 OCT 1955

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR SEPTEMBER, 1955.

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 Sept. 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.			PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
			h.	m.	s.				
1	NE	e	17	47	-			V. small	
		F	19	10	-				10°N., 84½°W. Costa Rica. U.S.C.G.S.
3	ZNE	e	05	50	-			Small.	
		F	06	10	-				18½°N., 70°W. Dominican Republic. U.S.C.G.S.
3	ZE	eP	12	48	21		8900	Depth about 100 Km.	
		ZV, ZE	iP	48	25				
		ZV	iPP	51	33				
		ZV, Z	iPPP	53	27				
		ZE	eS	58	09				
		E	eScS	58	27				
		E	i(sS)	58	54				
		N	i(PS)	59	07				
		ZN	i	59	38				
		E	i(PFS)	13	00				15
		NE	iSS	03	39				
		N	iSSS	06	45				
		N	eLQ	09	-				-
E	eLR	14	-	-					
M	M	24	-	19	12				
E	M	25	-	18	13				
Z	M	25	-	18	10				
3	ZV	iPKP	16	41	22		11900	1°N., 123°E. Celebes. U.S.C.G.S.	
		ZV, Z	iPP	42	00				
		NE	iSKS	47	31				
		E	iSKKS	48	27				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd. 3	NE	iS	16	49	09				
	Z	i		50	47				
	NE	i		50	59				
	Z	i		51	55				
	ZNE	i		52	05				
	N	iPPS		52	36				
	ZN	i		52	48				
	NE	i		53	07				
	NE	e		54	03				
	NE	e		56	01				
	NE	iSS		56	59				
	NE	i		57	55				
	NE	e		58	42				
	ZNE	iSS	17	01	23				
	NE	e		05	43				
	E	i	17	07	44				
	N	eLQ		09	-				
	NE	eLR		22	-				
	E	M		29	-	21	8		
	N	M		30	-	20	8		
	Z	M		30	-	20	4		
		F	18	10	-				
4	NE	e	07	30	-				Small.
		F	08	05	-				
4	-	-	09	17	-				Galitzin instruments out
5	-	-	09	27	-				of action.
7	ZV	iP	03	31	25		8600		
	ZV	i		31	44				
	ZV,Z	iPP		34	22				2°S., 68°E. Chagos Islands
	N	eS		41	16				region. U.S.C.G.S.
		F	04	50	-				
8	Z	ePKP	02	22	01		12600		
	Z	iPF		22	44				
	N	eSKS		28	38				Sandwich Islands region.
	N	eSKKS		29	43				Mag. 6 $\frac{3}{4}$ -7 (Pas.) U.S.C.G.S.
	N	eS		30	36				
	N	iPS		32	17				
	NE	i		32	40				
	N	iPPS		33	19				
	E	eSS		38	10				
	N	i		38	33				
	NE	eSSS		41	58				
	NE	eLQ		50	-				
	E	M		57	-	22	11		
	N	M	03	00	-	23	9		
	Z	M		00	-	23	5		
		F	-	-	-				Overlapped by next shock.
8	ZV,Z	i(PKP)	03	46	30				Small.
	ZV,Z	i		40	38				
	Z	i		46	52				
	NE	i(PKS)		50	01				7°S., 155 $\frac{1}{2}$ °E. Solomon
	N	i		50	12				Islands. U.S.C.G.S.
	NE	eLR	04	24	-				
	E	M		30	-	36	12		
	N	M		38	-	25	7		
	Z	M		45	-	26	7		
		F	06	05	-				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 19 55.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.		
			h.	m.	s.						
9	NE	e	10	40	-				Small; confused by microseisms. 2°S., 100°E. Near south coast of Sumatra. Mag. 6¼-6½ (Pas.) U.S.C.G.S.		
		F	11	08	-						
10	NE	e	21	57	-				Small. 10°N., 123°E. Negros Islands, P.I.		
		F	22	20	-						
11	NE	i(PKS)	18	17	10				7°S., 155°E. Solomon Islands. U.S.C.G.S. overlapped by next shock.		
	NE	eL		50	-						
	F		-	-	-						
11	NE	i(PKS)	18	26	57				7°S., 155°E. Solomon Islands. U.S.C.G.S.		
		F	20	32	-						
12	ZV,Z	eP	06	15	19		3200		32½°N., 30°E. Off coast of Egypt. Mag. 6¾ (Pas.) U.S.C.G.S.		
	Z,E	iP		15	33						
	ZNE	i		15	59						
	ZE	i		16	09						
	ZE	iPP		16	24						
	ZE	iPPP		16	44						
	ZE	i		18	20						
	ZE	iPcP		18	37						
	Z	i		19	19						
	Z	i		19	49						
	NE	eS		19	57						
	ZNE	iS		20	13						
	ZNE	i		20	36						
	E	M		20.9	-					15	38
	NE	i		21	15						
	N	i		21	59						
	ZNE	iPcS		22	16						
	N	M		22.3	-					20	56
	Z	M		22.5	-					9	25
	NE	eLR1		23½	-						
NE	i		24	05							
NE	iScS		25	56							
NE	eLR2		26	-							
	F		07	42	-						
13	NE	e	02	40	-				Small. 52°N., 176°W. Andreanof Islands, Aleutian Islands. U.S.C.G.S.		
		F	03	10	-						
13	NE	e	18	10	-				Small. 1½°N., 125°E. Near coast of Celebes. U.S.C.G.S.		
		F		30	-						
15	ZNE	e	12	50	-				Small; beginning confused by microseisms. 5°S., 134½°E. Off coast of western New Guinea. Mag. 6¾ (Pas.) U.S.C.G.S.		
	E	M	13	47	-					19	6
	N	M		47	-					19	8
	Z	M		47	-					19	4
		F	15	20	-						

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
15	NE	e F	17	55	-				V. small.
			19	50	-				
16	NE	e F.	06	05	-				V. small.
				55	-				
17	NE	e F	21	20	-				V. small.
			22	00	-				
19	NE	e F	05	00	-				V. small. 26½°N., 129°E. Ryukyu Islands. U.S.C.G.S.
				20	-				
20	Z	i	13	52	29				Small.
	ZN	i		53	7				
	ZN	i		53	28				
	N	e	14	02	52				32°S., 178°W. Kermadec Islands. Mag. 6½(Pas.). U.S.C.G.S.
	E	e(SS)		04	54				
	NE	e		05	49				
	E	i		11	03				
	E	i		19	34				
	NE	eLR		46	-				
		F	16	15	-				
21	ZV,Z	i(PKP)	06	59	19				17½°S., 169°E. New Hebrides Islands. U.S.C.G.S. overlapped by next shock.
		F	-	-	-				
21	NE	eLq	07	45	-				14°S., 14½°W. Atlantic Ocean U.S.C.G.S.
	NE	eLR		58	-				
		F	08	45	-				
22	ZV,Z	iP	03	38	10			9900	Compression.
	ZV,Z	i		38	21				
	NE	iSKS		48	38				
	NE	iS		48	55				24°N., 123°E. Off east coast of Formosa. Felt: Taipei. U.S.C.G.S.
	NE	e(ScS)		49	20				
	NZ	i		49	22				
	ZN	i	03	49	46				
	NE	ePS		50	10				
	ZN	i		50	24				
	NE	iPPS		50	48				
	E	i		52	04				
	NE	iSS		54	54				
	NE	eLR	04	05½	-				
	E	M		15	-	23		70	
	N	M		15	-	23		70	
	Z	M		24	-	14		33	
		F	05	30	-				
22	NE	e F	06	35	-				Small.
			07	00	-				
23	ZV,Z	iP	15	18	13			8800	Dilatation. Depth about 130 Km.
	ZV,	iPcP		18	30				
	ZV	iP		18	47				
	ZV	i(sP)		18	53				
	ZV	iPP		21	09				
	N,ZV,Z	i(ScP)		22	11				27°N., 101½°E. Yunnan Province China. Mag. 6¾(Pas.) U.S.C.G.S.
	ZV,Z,E	i(PcS)		22	25				
	ZV	iPPP		23	05				
	NE	iS		27	58				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.									
23	NE	iSKS	15	28	17				
✓	ZE	iScS		28	26				
	ZE	iSP		28	36				
	ZN	iSPP		28	53				
	E	i(sS)		29	05				
	N	iPPS		29	19				
	ZNE	eSS		32	55				
	N	i		33	51				
	N	iSSS		36	27				
	NE	iPKKP		36	53				Large movements.
	ZN	i		37	29				
	NE	eLQ		38	-				
	Z	i		38	37				
	NE	i		39	21				
	N	iPKKS		40	33				
	NE	eLR		44	-				
	N	M		51	-	23	79		
	E	M		54	-	21	58		
	Z	M		55	-	13	23		
		F	17	15	-				
24	NE	e	03	25	-				Small.
		F	04	20	-				
✓ 24	ZV	iP	10	34	33			10100	
	ZV	i(PcP)		34	38				22°N., 122°E. Off east coast of Formosa. U.S.C.G.S.
	N	eS		45	26				
	N	eLR	11	3	-				
	E	M		15½	-	18	11		
	Z	M		20	-	18	12		
	N	M		20½	-	18	13		
		F		50	-				
25	ZV	iPP	19	18	10			11700	
	ZV	i		18	43				6°N., 127½°E. Off east coast of Mindanao. Depth about 100 Km. Mag. 6½(Pas.) U.S.C.G.S.
	EN	iSKS		24	09				
	EN	e		24	45				
	EN	eS		25	29				
	N	i		26	04				
	NE	eSS		33	27				
	NE	eLR		50	-				
		F	20	35	-				
✓ 26	Z	eP	08	40	09			8700	
	ZV,ZN	iP		40	13				Dilatation. Depth 200 Km.
	ZV	iPcP		40	21				
	ZV,Z	iP		41	00				
	ZV,Z	i		41	4				
	ZV,Z	iSP		41	24				15½°N., 92½°W. Chiapas, Mexico. Depth about 200 Km. Mag. 6¾ (Pas.) U.S.C.G.S.
	ZV,Z	i		41	37				
	ZV	iPP		43	17				
	ZV	iPPP		45	07				
	ZNE	iS		49	49				
	NE	iSKS		50	05				
	NE	iScS		50	15				
	ZNE	iSP		50	36				
	ZNE	iSPP		50	53				
	NE	iS		51	21				
	NE	iPPS		51	33				
	E	i		51	53				

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER, 1955

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.						sec.	μ	km.	
✓ 26	Z	i	08	53	19				
	ZN	e		53	47				
	ZN	iSS		54	51				
	ZNE	i		56	07				
	N	i		57	13				
	ZNE	i(PKKP)		57	54				
	N	iSSS		58	24				
	ZE	i		59	16				
	NE	eLQ	09	01	-				
	N	M		03	-	22	27		
	E	M		07	-	24	14		
		F	10	15	-				
28	NE	e	02	25	-				Small.
		F	03	05	-				
28	NE	e	05	12	-				Small.
		F	05	35	-				
28	ZV, Z	iP	18	22	5			9200	
	ZV	i		22	18				
	Z	iPP		25	24				
	E	eS		32	19				
	NE	eL		48	-				
		F	19	10	-				
29	ZV	i(P)	20	10	41			9100	
	N	e(S)		20	49				
	N	e		20	59				
	N	i(PS)		21	33				
	N	eL		37	-				
		F		55	-				
30	NE	e	03	49	-				Small.
	NE	eLR		59	-				
		F	04	30	-				
30	Z	e(P)	07	29	55				Small.
	NE	eLR		52	-				
		F	08	20	-				

0.551.....

 29 NOV 1955
Rt
AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.
KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.
SEISMOLOGICAL BULLETIN FOR OCTOBER, 19 55

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 Sept. 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.			PERIOD. sec.	AMPLI- TUDE. μ	Δ km.	REMARKS.
			h.	m.	s.				
1	NE N	e eLR F	07	00	-				Small. 30°N., 101°E. Sikang Province China. U.S.C.G.S.
2	E	e F	16	40	-				Very small. 5½°N., 83°W. Off coast of Panama. U.S.C.G.S.
4	NE	e F	08 09	40 15	-				Very small. Tonga Islands region. U.S.C.G.S.
5	ZV, Z E	iP eL F	09	09	31				Small. 53½°N., 161°E. Near east coast of Kamchatka. U.S.C.G.S.
6	NE NE NE NE NE N E NE N	i(SKS) e(S) e e e(SS) e e(SSS) e(L) e(LR) F	11	27	39		(11800)		Confused by strong microseisms. 36°S., 70°W. Mendoza Province, Argentina. Felt: Constitution, Talca and Santiago. Depth about 150 Km. Mag. 6½. U.S.C.G.S.
6	NE	e F	18 19	45 40	-				Small. Confused by strong microseisms. 19°S., 167°E. New Hebrides Islands. U.S.C.G.S.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
7	N	e	23	40	-				Very small.
8		F	00	05	-				
8	NE	e	15	45	-				Very small.
		F	16	25	-				
9	NE	e	13	18	-				Small.
		F		30	-				2°S., 12½°W. Mid-Atlantic Ocean. U.S.C.G.S.
9	ZV	iPKP	17	59	22			14200	
	NE	ePKS	18	02	42				5°S., 153°E. New Britain U.S.C.G.S.
	NE	eSKKS		08	33				
	NE	eLR		43	-				
		F	19	57	-				
9	ZV	iP	23	25	41			8700	
	ZV	i		25	45				
	ZV	iPcP		25	50				
	N	e(S)		35	27				50½°N., 176°E. Near Islands, Aleutian Islands. U.S.C.G.S.
	NE	e(SKS)		35	35				
	N	eSS		40	13				
10	NE	eLR	00	01	-				
		F		45	-				
✓10	ZV	iPKP	09	17	03			14400	
	ZV	i		17	09				
	ZV	i		17	31				5°S., 153°E. New Britain
	ZV	i		17	39				Mag. 7¼ (Pas). - U.S.C.G.S.
	ZN	eSKKS		25	49				
	ZNE	i		27	13				
	Z	i		28	48				
	ZN	e(PS)		29	10				
	ZN	ePPS		30	47				
	N	i		31	17				
	NE	i		31	45				
	N	iSS		36	51				Ee
	N	iSSS		41	06				Ee
	NE	e		44	47				
	ZNE	eL	10	00	-				
	N	M		08	-	26	204		
	E	M		08½	-	26	120		
	Z	M		14	-	24	89		
		F	-	-	-				Overlapped by next shock.
10	NE	e	13	00	-				Small.
		F		50	-				New Britain. U.S.C.G.S.
10	ZV	iPKP	21	11	16				Small. Depth about 70 Km.
	ZV,Z	i		11	21				
	ZV	iPKP ₂		11	27				17½°S., 174°W. Tonga Islands
	ZV,Z	ipPKP		11	38				Depth about 60 Km. U.S.C.G.S.
	ZV,Z	ipPKP ₂		11	48				
	ZV,Z	isPKP ₂		12	05				
	N	e	22	08	-				
		F		25	-				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

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DATE	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
19	ZV,Z	iP	10	06	43			8600	Confused by microseisms. 49½°N., 155°E. Northern Kurile Islands. Mag. 6½(Pas). U.S.C.G.S.
	NE	e		16	35				
	NE	e		16	51				
	N	e(FPS)		17	18				
	NE	e		18	26				
	NE	eSS		22	-				
	NE	eSSS		25	-				
	N	eLQ		28	-				
	NE	eLR		32	-				
	E	M		46	-	17	10		
N	M		47	-	18	14			
Z	M		47	-	18	6			
	F		11	40	-				
20	NE	e	04	30	-			Small.	
		F		55	-				
21	ZV	iP	04	45	07			10000	Small. Ee 4°N., 95°E. Near coast of Sumatra. U.S.C.G.S.
	N	iS		55	55				
	N	eL	05	15	-				
		F		45	-				
21	ZV	i	19	21	16			16600	Ze. Dilatation. Focal depth about 640 Km. Confused by strong microseisms. 21°S., 179°W. Fiji Islands. depth about 650 Km. Mag. 6¼ (Pas). U.S.C.G.S.
	ZV,Z	iPKP		21	22				
	ZV,Z	iPKP2		21	29				
	ZV	i		21	38				
	ZV,Z	iPKP		23	50				
	ZV	iPKP2		23	57				
	ZN	e(SKS)		24	05				
	Z	e(PP)		25	00				
	ZN	e(PKS)		25	39				
	Z	i		26	02				
	Z	e		27	12				
	ZV,Z	e		28	28				
	ZV	e		28	43				
	N	i		33	14				
	N	iSKSP		34	22				
	N	ePKSP		35	17				
	N	e		37	48				
	NE	e		38	28				
	NE	e		40	29				
	NE	i		40	54				
	N	i		41	58				
	NE	eSS		19	42	43			
	N	i			43	21			
E	i			43	23				
N	e(sSS)			46	08				
N	i			48	06				
NE	eSSS			48	58				
N	e			51	38				
E	i			51	40				
	F		20	15	-				
21	N	ePKS	23	30	52			12400	Confused by strong microseisms: ½°S., 123½°E. Northern Celebes. U.S.C.G.S.
	NE	eSKS		33	58				
	E	i		36	13				
	E	e		37	56				
	N	iPS		38	16				
	NE	iPPS		39	03				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

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DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd. 21	NE	eSS	23	43	54				
	N	eSSS		48	14				
	N	eLQ		54	-				
	NE	e		57	32				
	NE	i		58	52				
22	NE	e	00	00	14				
	NE	eLR		01	-				
	N	M		11 ¹ / ₂	-	25	14		
	E	M		14	-	26	14		
	Z	M		15	-	26	7		
		F	01	30	-				
22	NE	e	10	30	-				Small. Confused by
		F	11	30	-				microseisms.
									46°N., 156°E. Kurile Islands.
									U.S.C.G.S.
22	NE	e	23	07	-				Small.
23		F	00	15	-				6°S., 149°E. New Britain.
									U.S.C.G.S.
24	NE	e	04	48	-				Very small.
		F	05	10	-				San Francisco.
25	Z	eF	16	46	40			8900	Small.
	NE	e(S)		56	51				
	N	e(SKS)		57	03				16 ¹ / ₂ °N., 95 ¹ / ₂ °W. Oaxaca,
	E	ePS		57	25				Mexico. U.S.C.G.S.
	N	eSS	17	02	07				
		F	18	00	-				
26	NE	e	11	58	-				Small.
		F	13	05	-				24 ¹ / ₂ °N., 122 ¹ / ₂ °E. Near east
									coast of Formosa. U.S.C.G.S.
26	NE	e	18	51	-				Very small.
		F	19	11	-				
28	NE	e	01	32	-				Small.
		F		48	-				
30	ZNE	e	16	25	-				Very small.
		F		35	-				
31	NE	e	01	36	-				Small.
	NE	eLR	01	46	-				
		F	02	25	-				

EDINBURGH

27 DEC 1955

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN FOR NOVEMBER, 1955.

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. 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 Sept. 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.			PERIOD. sec.	AMPLI- TUDE. μ	Δ km.	REMARKS.
			h.	m.	s.				
2	NE	eL F	00	31 55	- -			Small. 39½°N., 144°E. Off east coast of Honshu, Japan. U.S.C.G.S.	
3	N	e F	20 21	50 30	- -			Very small. Confused by microseisms.	
3	N	e	23	30	-			Very small. Confused by microseisms.	
4		F	00	10	-				
4	N	e F	04	09 50	- -			Very small.	
4	E	eSKS	23	08	35		11600	Confused by microseisms.	
	N	eS		09	52				
	NE	iPS		10	42				
	E	ePPS		12	18			35½°S., 69½°W. Mendoza Province, Argentina. Felt: Central Chile. Depth about 100 Km. Mag. 6¾(Pas.) U.S.C.G.S.	
	E	e		14	54				
	E	e(SS)		17	54				
	E	e(SSS)		21	44				
5		F	00	10	-				
5	N	e F	07 08	45 15	- -			Very small. 24½°N., 109°W. Southern Gulf of California. U.S.C.G.S.	
5	NE	e F	08 09	35 00	- -			Very small. Gulf of California aftershock. U.S.C.G.S.	

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER, 19 55.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
8	NE	e F	19	23 50	- -				Small.
9	N	e F	08 09	54 10	- -				Very small.
10	Z ZV,Z ZV ZV,ZN Z ZV ZN N ZV,Z Z ZN E N Z Z N N N E E E NE N E N	ePKP iPKP ipPKP iPP eSKP ipPP ePKS i i iPPP e e eSKKS e e i e ePPS eSS e e eSSS e eLQ eLR F	02	03 03 03 06 07 07 07 07 10 11 12 12 15 15 16 18 19 25 26 26 30 31 44 54 10	28 32 52 47 00 03 05 13 34 00 27 19 40 05 46 53 40 30 18 25 46 38 38 - - -			15900	Depth about 90 Km. Compression. Dilatation. Ze 15°S., 174°W. Samoa Islands. Depth about 100 Km. Mag. 7¼-7½ (Pas.) U.S.C.G.S. Surface waves poorly developed
10	N	e F	08 09	54 10	- -				Very small.
11	N NE N	i(S) i eL F	08 09	52 52 04½ 30	03 28 - -				Ee South Atlantic Ocean, about 400 miles north of Tristan da Cunha. U.S.C.G.S.
11	N	e F	18	35 55	- -				Very small. Western Turkey. U.S.C.G.S.
11	N	e F	20	12 23	- -				Very small.
12	ZV ZV,Z ZV ZV ZV E NE N E NE E N	eP iP i i ePP iS ePcS e e e e(SCS) eL F	05	39 39 39 39 41 45 45 48 48 49 49 53 50	28 31 36 43 04 23 46 16 42 14 35 - -			4200	26°N., 35°E. Northern Red Sea. U.S.C.G.S. Ne.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER, 1955.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
12	N	eL F	11	08	-				Small. 5°S., 152½°E. New Britain. Depth about 60 Km. U.S.C.G.S.
12	NE	e F	11 12	55	-				Small. 11½°N., 125½°E. Samar Island, Philippine Islands. U.S.C.G.S.
13	NE	e F	00 02	49 10	-				Very small.
13	NZ	e F	03	35 50	-				Very small.
14	NE	e F	01 02	35 20	-				Very small. 17½°N., 146°E. Marianas Islands. Depth about 100 Km. U.S.C.G.S.
14	NE	e F	02 03	40 15	-				Very small.
14	NE	e F	13 15	47 10	-				Small. 17½°N., 145½°E. Marianas Islands. Depth about 150 Km. U.S.C.G.S.
✓ 15	ZV, Z	eP	10	18	14			7900	55½°N., 155°W. Off south coast of Alaska Peninsula. Mag. 6¼(Pas.) U.S.C.G.S.
	ZV	e(PcP)		18	21				
	NE	eS		27	30				
	N	i		28	10				
	E	i		28	16				
	N	e		28	44				
	E	eSS		31	23				
	E	eL1		39	-				
	N	eL2		45	-				
	E	M		50½	-	20		7	
	N	M		54	-	18		8	
	Z	M		55	-	18		6	
	Z	F	11	50	-				
15	NE	e F	22 22	39 58	-				Very small. 43½°N., 87°E. Sinkiang Province, China. U.S.C.G.S.
16	N	e F	09 10	45 20	-				Very small.
✓ 17	Z	eP	07	07	07			11200	Depth about 40 Km.
	Z	epP		07	19				
	Z	ePP		11	09				
	E	iSKS		17	44				
	NE	e		18	02				
	E	eS		18	36				
	E	eSP		20	08				
	NE	e		20	24				
	NE	ePPS		21	04				

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DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
contd.									
✓ 17	E	e(SS)	07	25	21				
	E	e(SSS)		29	18				
	N	eLR		39	-				
	E	M		46	-	26	12		
	N	M		49	-	24	8		
	Z	M		51	-	20	4		
		F	09	15	-				
21	NE	e	21	05	-				Very small.
		F		25	-				
22	ZV	ePKP	03	43	14			14300	
	ZV,Z	ePP		45	20				
	E	ePKS		46	34				24½°S., 123°W. Eastern
	E	e		46	48				Tuamotu Archipelago.
	EZ	eSa	04	16	31				Mag.6¾-7.(Pas). U.S.C.G.S.
	E	eLR		29	-				
		F	05	20	-				
23	NE	e	03	55	-				Very small.
		F	04	15	-				
23	ZV,Z	iPn	06	31	54			(420)	
	ZV,Z	e(Pg)		32	10				
	ZNE	e(Sn)		32	39				
✓ 23	ZV,ZE	eP	06	41	16			8500	Depth about 80 Km.
	ZV,Z	iP		41	19				Compression.
	ZV	iPcP		41	30				
	ZV	ipP		41	41				
	ZV	isP		41	48				
	Z	iPP		44	12				
	Z	epPP		44	34				
	N	eS	06	50	54				
	N	iS		50	57				50½N., 157°E. Near south
	E	iSKS		51	21				coast of Kamchatka.
	N	iScS		51	30				Depth about 60 Km. Mag.7-7½
	N	iPS		51	55				(Pas.) U.S.C.G.S.
	N	iPPS		52	19				
	N	i		53	13				
	N	i		54	55				
	N	iSS		55	55				
	N	i(SSS)		59	08				
	E	eLR	07	03½	-				
	EN	eL2		09½	-				
	N	M		13	-	26	49		
	E	M		23½	-	17	38		
	Z	M		23½	-	16	22		
		F	10	40	-				
24	NE	e	05	35	-				Small.
		F	06	15	-				
27	NE	e	08	20	-				Very small.
		F		50	-				
27	N	eL	20	11	-				Small.
		F		45	-				
28	NE	e	19	05	-				Small.
		F	20	40	-				

24 FEB 1956
K6.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER, 19 55

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 Sept. 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.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
4	N	eL F	14	20	-				Small. 34°N., 49°E. Central Iran. U.S.C.G.S.
5	NE	e F	20 21	50 20	- -				Very small. 24°N., 122½°E. Off east coast of Formosa. U.S.C.G.S.
6	E N E E N E N	i(SKS) i i e e i e F	04	38 38 39 43 44 45 45	18 20 21 29 05 25 51				
6	ZV E N E NE N NE E N Z	e(PP) eSKS e e e(PPS) eL eL2 M M M F	04	48 54 55 55 56 09 19 22 22½ 22½ 07	06 59 13 15 57 - - - - - 10		10400		Overlapped by next shock. 20°S., 70°W. Northern Chile. Mag. 6¾ (Pas). U.S.C.G.S.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

DECEMBER, 19 55

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.	Δ	REMARKS.
			h.	m.	s.				
✓ 7	ZV,Z	iP	15	16	47			105 00	26½°N., 142½°E. Bonin Islands. Mag. 6¾-7. U.S.C.G.S.
	ZV,Z	iPP		20	34				
	ZV	i		20	45				
	N	iSKS		27	16				
	E	i		27	20				
	E	iS		27	54				
	N	i(ScS)		28	03				
	N	i(SKS)		28	33				
	Z	iPS		29	21				
	N	ePPS		29	53				
	E	iSS		34	37				
	N	e		36	07				
	N	e(PKKS)		37	35				
	N	eSSS		38	25				
	NE	eLQ		42	-				
N	eLR		47	-					
N	M		16	03	-	18	23	Ne	
E	M			04½	-	18	14		
Z	M			06	-	18	10		
	F		18	15	-				
7	ZV	i	16	29	05				
7	NE	e	23	32	-				Very small.
8		F	00	30	-				26°N., 128½°E. Ryukyu Islands. U.S.C.G.S.
8	NE	e	22	30	-				Very small.
		F		55	-				45°N., 99½°E. Outer Mongolia. U.S.C.G.S.
✓ 14	N	i	11	31	14				Confused by strong microseisms.
	NE	eLR		31	-				
	N	eL2		34	-				
	E	M		35	-	26	17		22°N., 92½°E. Pakistan - Burma border. U.S.C.G.S.
	N	M		35	-	26	29		
	F		12	50	-				
15	NE	e	20	00	-				Small. Confused by strong microseisms.
		F		30	-				
17	NE	e	18	35	-				Very small.
		F		50	-				
✓ 19	E	eSKS	03	38	38				Small.
	N	e		39	54				
	N	eL1	04	08½	-				8½°N., 127°E. Near east coast of Mindinao Island, Phillipine Islands. U.S.C.G.S.
	E	eL2		20	-				
	N	M		21	-	19	6		
	N	M		21	-	17	6		
	Z	M		21	-	17	3		
	F		05	30	-				
21	N	e	03	30	-				Very small. Confused by microseisms.
		F		50	-				
26	NE	e	00	10	-				Very small.
		F		35	-				

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN.

.....DECEMBER,.....19 55.

DATE.	COMPT.	PHASE.	G.M.T.			PERIOD.	AMPLI- TUDE.	Δ	REMARKS.
			h.	m.	s.				
26	NE	e	15	20	-				Small. Confused by very strong microseisms.
		F	16	20	-				
28	NE	e	15	40	-				Confused by strong microseisms.
		F	18	00	-				
29	NE	e	00	00	-				Confused by strong microseisms.
		F	01	20	-				
30	NE	e	03	50	-				Very small. Confused by microseisms.
		F	04	20	-				

