

**BERMUDA-COLUMBIA UNIVERSITY
SEISMOGRAPH STATION**

**SIGNAL HILL
ST. GEORGES, BERMUDA**



SEISMOLOGICAL BULLETIN

By

G. PIMENTEL

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**LAMONT GEOLOGICAL OBSERVATORY
(COLUMBIA UNIVERSITY)**

Contribution No. 616

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Bermuda-Columbia University Seismograph Station						1958			
Date	Phase	h	m	s	Date	Phase	h	m	s
Apr. 11 (Cont.)	eSSS	48	55		Apr. 13 (Cont.)	1S	52	32	
	eLR	57	00			iSS	58	15	
	Kurile Islands					eSSS	13	04	00
	0 = 23.11.19					eLQ		07	00
	48 N. 152½ E.					eLR		10	00
	Dist. app. 93 Bda. Mag. 6½					Near East Coast of Kamchatka			
						0 = 12.29.07			
I2	eP	10	34	22		53N. 161E.			
	eLR		45	00		Dist. app. 87 Bda.			
	Gulf of California				I4 e		03	45	00
	0 = 10.24.55				e		49	50	
	Mag. 5½					Alaska			
I2	1P	II	54	46		0 = 03.12.25			
	1PP		56	21		66N. 155W.			
	1S	12	01	01		Dist. app. 61 Bda.			
	1SS		03	38					
	1SSS		04	13	I4 eLQ		18	55	30
	eLR		06	00		Near East Coast of Kamchatka			
	0 = 11.46.58					0 = 18.08.40			
	Gulf of Baja, California					53N. 161 E.			
	26½ N. 111 W.					Dist. app. 87 Bda.			
	Dist. app. 41 Bda. Mag. 6½-6								
I2	eLR	14	24	00	I4 1P		21	39	23
	Ryukyn Islands				comp. from the SW				
	0 = 13.25.22				1PP		40	32	
	25N. 126E. Dist. app. 121 Bda.				1PcP		41	46	
I3	eLQ	02	22	00	1		43	37	
	Alaska				1S		44	39	
	0 = 01.48.43				1SS		47	07	
	66½ N. 155½ W.				eLR		48	30	
	Dist. app. 61 Bda.					Near Coast of Ecuador			
I3	eLR	05	06	00		I killed, 12 injured			
	Outer Mongolia					Minor property damages at Esmeraldas. Also felt at Sbarra and Quito			
	0 = 04.08.56					0 = 21.32.28			
	46N. 98E.					IN. 79½ W.			
	Dist. app. 101 Bda.					Dist. app. 35 Bda. Mag. 6.3/4-7.63/4			
I3	1P	09	17	45	I4 1P		22	55	14
	ePcS		22	30	eLR		23	01	00
	1S		26	11		Ecuador aftershock			
	eScS		27	49		0 = 22.48.33			
	eSS		29	20		I N. 79½ W.			
	eLR		34	00		Dist. app. 35 Bda. Mag. 6½-6 3/4			
	Alaska, felt				I5 1P		01	37	37
	Central Alaska				1PP		38	45	
	0 = 09.07.24				1PcP		40	05	
	66N. 156W.				e		41	45	
	Dist. app. 62 Bda. Mag. 6 3/4				1S		43	00	
I3	1P	12	41	56	1SS		45	22	
	1PP		45	14	eLR		48	00	
	ePPP		48	35		Ecuador aftershock			
	(Cont.)					(Cont.)			

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Bermuda-Columbia University Seismograph Station						1958			
Date	Phase	h	m	s	Date	Phase	h	m	s
Apr. 15 (Cont.)	0 = 01.30.43				Apr. 21 (Cont.)	1PKP2		57	50
	I N. 79½ W. Mag. 6½-6 3/4					1PP	23	00	50
	Dist. app. 35 Bda.					ePcSPKP		08	29
I5	1P		03	58	56	eSKSP		11	08
	1PPP		04	00	05	eScSPKP		12	13
	1		01	18		ePPS		13	33
	1		02	49		eSS		19	55
	1S		04	00		eL		40	00
	eLR		06	00		eLR		58	00
	Off West Coast of Costa Rica					Sumatra			
	0 = 03.52.39					0 = 22.37.18			
	9 N. 84 W.					4½ S. 104 E. Mag. 6½			
	Dist. app. 30 Bda. Mag. 6 3/4					Dist. app. 150 Bda.			
I7	eLR	II	10	00	23	eP	03	II	20
	New Britain					ePP		14	44
	Rabaul felt					eS		22	28
	0 = 10.04.46					eSS		28	44
	5½ S. 152 E.					eLQ		34	47
	Dist. app. 136 Bda.					eLR		41	00
I7 e		14	18	56		Kurile Islands			
	Off Coast of Costa Rica					0 = 02.57.40			
	0 = 14.06.85					45 N. 152 E.			
	8 N. 85 W.					Dist. app. 95 Bda			
	Dist. app. 31 Bda.				23 e		16	06	00
I9 e		04	12	54		Fiji Islands region			
	eLR		22	00		0 = 15.11.39			
	Gulf of California					1½ S. 176 W.			
	0 = 04.03.26					Dist. app. 116 Bda.			
	26½ N. 110½ W.				24 eS		18	21	12
	Dist. app. 40 Bda. Mag. 6				eLR			23	00
20 e(LR)		22	02	00		Pacific Ocean			
	California					0 = 18.09.14			
	Felt Mapa County					5 N. 83 W.			
	0 = 21.06.59					Dist. app. 32 Bda.			
	38½ N. 122 W.				27 1P		19	15	26
	Dist. app. 46 Bda. Mag. 4½				1S			24	25
21 1SKS		20	39	20	eLR			38	00
	1SKKS		42	47		Fox Islands			
	1PS		44	16		Aleutian Islands			
	1SS		50	49		0 = 19.03.50			
	eLQ		21	08	00	52½ N. 169 W.			
	eLR		13	00		Dist. app. 74 Bda.			
	Interpretation doubtful				28 1P		II	56	02
	Samoa Islands Region				1PP			58	00
	0 = 20.14.47				1PPP			58	21
	15 S. 174½ W.				1S		12	02	33
	Dist. app. 114 Bda. Mag. 6½				1SS			05	45
21 1PKP		22	57	05	eLR			08	00
						Peru			
						0 = 11.47.40			
						II S. 74 W.			
						Dist. app. 45 Bda. Mag. 6½, 6¼-6½			

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Bermuda-Columbia University Seismograph Station						1958			
Date	Phase	h	m	s	Date	Phase	h	m	s
May 18	eLR	06	47	00	May 24	e	23	15	14
	New Hebrides Islands								
	O = 06.26.44								
	I3 S. 167 E.								
	H about 60 km.								
	Dist.app.129 Bda.								
18	ePP	I2	42	48					
	ePKS		44	00					
	e		46	56					
	eSKKS		50	00					
	ePPS		54	48					
	eScSPKP		55	45					
	eSS	I3	00	44					
	eLR		20	00					
	New Hebrides								
	after shock								
	O = 12.21.18								
	I3 S. 167 E.								
	Dist.app.129 Bda. Mag.6-6½								
19	e	00	28	44					
	e		31	42					
	e		40	16					
	e		45	42					
	eLR	01	07	00					
	New Hebrides								
	aftershock								
	O = 00.06.00								
	I3 S. 167 E.								
	Dist.app.129 Bda.								
21	eP	I4	11	41					
	eS		14	10					
	eLR		15	00					
	eT		25	35					
	eTmax		26	30					
	Greater Antilles								
	O = 14.08.40								
	20 N. 67 W.								
	Dist.app. 13 Bda.								
22	eP	II	44	46					
	eS		54	44					
	eLR	I2	13	00					
	Andreanof Islands								
	Aleutian Islands								
	O = 11.32.50								
	50½ N. 175 W.								
	Dist.app. 78 Bda.								
22	e	I5	49	00					
	eLR	I6	12	00					
	Bismarck Sea								
	O = 15.08.00								
	3 S. 146 E.								
	Dist.app.138 Bda.								
					25	e	23	15	14
						e	20	40	
						eLR	29	00	
						Off Cape Mendocino			
						O = 23.04.42			
						40½ N. 125 W.			
						Dist. 48 Bda. Mag. 4 3/4			
					25	iS	00	57	34
						eLR	01	15	00
						Andreanof Islands			
						Aleutian Islands			
						O = 00.35.23			
						51 N. 177 W.			
						Dist.app. 79 Bda.			
					25	iP	15	06	49
						iS	16	40	
						eSS	21	30	
						eSSS	26	30	
						eLR	35	00	
						Andreanof Islands			
						Aleutian Islands			
						O = 14.54.30			
						51½ N. 177 W.			
						Dist.app. 79 Bda.			
					25	eLR	17	54	00
						Samoa Island Region			
						O = 16.54.26			
						14½ S. 174 W			
						Dist.app.114 Bda.			
					25	eLR	18	43	00
						Near West Coast of			
						Kyushu, Japan			
						O = 17.40.47			
						31 N. 129½ E.			
						Dist.app.115 Bda.			
					25	iP	21	18	55
						iPP	20	03	
						i	22	23	
						i	24	00	
						iS	24	43	
						eLQ	21	00	
						eLR	31	00	
						Ecuador-Peru Border Region			
						Ecuador felt			
						O = 21.11.45			
						3 S. 77 W.			
						H about 100 km.			
						Dist.app.38 Bda. Mag.6½,6½-6½			
					26	eP	08	56	48
						eS	09	02	22
						eL	05	00	

(Cont.)

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Bermuda-Columbia University Seismograph Station						1958				
Date	Phase	h	m	s	Date	Phase	h	m	s	
May 26	eLR	09	00	00	May 31	eLR	08	03	00	
(Cont.)	Interpretation doubtful									
	Ecuador-Peru aftershock									
	O = 08.49.47									
	3 S.77 W.									
	H about 100 km.									
	Dist.app. 38 Bda.									
					31	iPKP	19	51	45	
						iPP	53	53		
						iPKS	55	06		
						iPPP	56	17		
						i	57	40		
						iSKKS	20	00	45	
						ePS	04	00		
						ePPS	05	43		
						eSS	11	07		
						e	14	00		
						eLR	20	00		
						New Hebrides Islands				
						O = 19.32.30				
						15 S. 169 E.				
						Dist.app.128 Bda. Mag.7½, 7½-7½				
					26	iP	II	08	05	
						iPP	08	49		
						iS	17	22		
						iPS	18	07		
						eSS	22	02		
						eLR	31	00		
						Fox Islands				
						Aleutian Islands				
						O = 10.56.30				
						53 N. 169½ W.				
						Dist.app.73 Bda. Mag.5½-53/4.				
					28	eLR ^I	00	39	00	
						eLR ²	01	28	00	
						North Coast of				
						New Guinea				
						O = 23.32.43				
						5½ S. 146 E.				
						Dist.app.141 Bda.				
					29	eLR	07	15	00	
						Oaxaca, Mexico				
						O = 06.59.11				
						16½ N. 97½ W.				
						Dist.app. 34 Bda.				
					30	eLR	07	01	00	
						Solomon Islands				
						O = 05.50.26 7 S. 154½ E.				
						Dist.app. 135 Bda.				
					30	iP	18	16	28	
						iPP	18	08		
						iPPP	20	45		
						iS	25	50		
						iSS	30	32		
						eSSS	34	20		
						eLR	40	00		
						Fox Islands				
						Aleutian Islands				
						O = 18.04.50				
						52½ N. 169 W.				
						Mag. 6-6½(Pas)				
					June	I	eLR	04	48	00
						Near Coast of				
						Kamchatka				
						O = 04.00.06				
						52½ N. 160 E.				
						Dist.app. 88 Bda.				
					I	eLQ	18	49	00	
						Alaska				
						O = 18.21.17				
						60½ N. 143½ W.				
						Dist.app. 54 Bda.				
					3	iPKP	19	51	02	
						iPP	53	12		
						iPKS	54	28		
						iPPS	20	05	05	
						iScSPKP	06	07		
						eSS	10	41		
						eSKSSKS	13	08		
						eSSS	32	20		
						eLR	36	00		
						New Hebrides Islands				
						O = 19.31.52				
						15 S. 168 E.				
						Dist.129 Bda. Mag.6½-6 3/4(Berk)				

II

Bermuda-Columbia University Seismograph Station				1958			
Date	Phase	h	m s	Date	Phase	h	m s
June 20	eLR	01	17 00	June 26	e	04	51 45
	eLR		48 00		i	05	01 16
	Samoa Islands Region				i		02 12
	0 = 00.47.58				i		06 58
	16 S. 173 W.				e		07 42
	Dist.app. II ⁴ Bda.				Kamchatka. Slightly deeper than normal		
21	eP	03	29 29		0 = 04.38.12		
	e		31 14		54 ¹ / ₂ N. 159 ¹ / ₂ E.		
	eLR		33 05		Mag. 6 ¹ / ₂ - 6 ¹ / ₂ (Pas)		
	eT		48 13		Dist.app. 9 ⁴ / ₂ Bda.		
	eTmax		49 06	27	e	00	08 40
	Atlantic Ocean				eLR		25 00
	0 = 03.25.09				South of Honshu, Japan		
	33 N. 42 W.				0 = 23.29.32		
	Dist.app. I9 Bda.				31 N. 141 ¹ / ₂ E.		
23	e	05	54 16		Dist.app. II2 Bda.		
	eLR	06	05 00	27	1P	05	50 30
	Outer Mongolia				1PP		50 49
	0 = 05.10.03				1PP		51 21
	49 N. 102 E.				eS		55 26
	Dist.app. I00 Bda				ISS		56 24
24	e	06	58 25		eLR		58 00
	e	07	03 15		Near Coast of El Salvador, Slight damage in Southern El Salvador		
	e		09 12		0 = 05.44.28		
	eLR		15 00		I3 N. 88 ¹ / ₂ W.		
	Western Sinkiang Province, China				Mag. 6 (Pas) H about 60 km		
	0 = 04.48.15				Dist.app. 29 Bda.		
	30 ¹ / ₂ N. 78 ¹ / ₂ E.			28	eLR	20	25 00
	Dist.app. I09 Bda.				Marshall Islands		
25	1PKP	09	56 34		0 = 19.29.58		
	1PP		59 52		I2 N. 162 E.		
	1PPP	10	02 16		Dist.app. II7 Bda.		
	eSKKS		06 16	29	e	03	40 50
	ePPS		13 20		e		42 00
	eSS		17 40		e		43 52
	eLR		40 00		e		44 45
	Interpretation doubtful				e		53 45
	Near North Coast of New Guinea				Southern Peru		
	0 = 09.36.30				0 = 03.25.42		
	3 S. 144 ¹ / ₂ E.				I5 ¹ / ₂ S. 70 ¹ / ₂ W.		
	Mag. 6 ¹ / ₂ - 6 ¹ / ₂ (Pas)				H about 150 km		
	Dist.app. I40 Bda.				Mag. 6 ¹ / ₂ (Berk)		
25	eLR	13	52 00		Dist. 48 Bda.		
	New Britain						
	0 = 12.43.55						
	5 S. 152 E.						
	Dist.app. I36 Bda.						

I2

Bermuda-Columbia University Seismograph Station				1958			
Date	Phase	h	m s	Date	Phase	h	m s
June 29	e	09	44 10	July 3	I8 S. 66 E.		
	e		50 50	(Cont.)	Dist.app. I3 ⁴ / ₂ Bda.		
	eL	10	13 00	3	eSKS	I0	47 36
	Tonga Islands				ePS		50 12
	0 = 09.14.37				eSS		55 30
	I6 ¹ / ₂ S. 172 W.				eLQ	II	05 40
	Dist.app. II3 Bda.				eLR		08 00
29	eLR	I3	38 00		South Pacific Ocean		
	Samoa Islands Region				0 = 10.23.02		
	0 = 12.40.48				55 S. 126 W.		
	I5 ¹ / ₂ S. 173 W.				Dist.app. I02 Bda.		
	Dist. app. II3 Bda.			4	eLQ	0I	06 00
30	1PcP	08	54 45		eLR		07 00
	IS	09	03 28		Atlantic Ocean		
	eLR		17 00		0 = 00.53.10		
	Dodecanese Islands				9 N. 40 W.		
	0 = 08.42.33				Dist.app. 33 Bda.		
	36 ¹ / ₂ N. 27 ¹ / ₂ E.			4	i	I8	57 00
	Dist.app. 74 Bda.				i	I9	15 00
30	e	I8	45 45		e		20 20
	e		50 20		eLR		42 00
	e		53 20		Near South Coast of Mindanao, P.I.		
	e		55 08		0 = 18.34.03		
	e	I9	05 25		6 N. 125 E.		
	eLR		19 00		Dist.app. I4I Bda.		
	South of Honshu, Japan			6	eL	04	55 15
	0 = 18.26.20				Alaska Peninsula		
	31 N. 141 ¹ / ₂ E.				0 = 04.40.59		
	Dist.app. II2 Bda.				55 N. 160 ¹ / ₂ W.		
					Dist.app. 67.5 Bda.		
July I	1P	06	05 05	6	eLR	I6	32 00
	1PP		08 00		Central Alaska		
	IS		14 56		0 = 16.03.14		
	eSS		19 40		66 N. 155 W.		
	eLQ		24 00		Dist.app. 6I Bda.		
	eLR		30 00	7	eS	05	38 25
	Andreanof Islands				eSS		43 30
	Aleutian Islands				eLR		56 00
	0 = 05.53.07				Andreanof Island		
	5I ¹ / ₂ N. 176 ¹ / ₂ W.				Aleutian Islands		
	Mag. 6(Pas)(Berk)				0 = 05.16.04		
	Dist.app. 77 ¹ / ₂ Bda.				50 ¹ / ₂ N. 180 W.		
					Dist.app. 79 Bda.		
3	e	06	07 00	7	e	I5	29 48
	e		17 16		eLR		39 00
	e		20 15		Andreanof Islands		
	e		25 16		Aleutian Islands		
	eLR		47 00		0 = 13.38.00		
	Mascarene Islands Region				(Cont.)		
	0 = 05.45.07						
	(Cont.)						

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Bermuda-Columbia University Seismograph Station					1958				
Date	Phase	h	m	s	Date	Phase	h	m	s
Aug. 26	eLR	13	49	00	Aug. 31	1P	23	10	09
	New Hebrides Islands					1PP		12	15
	Aftershock					eS		18	05
	0 = 12.45.02					eLQ		23	36
	14 S. 167 E.					eLR		26	00
	Dist. 130 Bda.					Central Alaska			
						0 = 23.00.15			
26	eLR	19	01	00		63 N. 144 1/2 W.			
	New Hebrides Islands					Dist.app. 57 Bda			
	0 = 17.55.34								
	14 S. 167 E.								
	Dist. app. 130 Bda.								
26	e	23	54	15	Sep. 1	e	14	50	00
	e	00	07	40		eLR		56	30
	e		11	20		Bolivia			
	eLR		34	00		Many injured and			
	New Hebrides Islands					extensive property			
	0 = 23.31.38					damage at Alquile			
	14 S. 167 E.					0 = 14.30.46			
	Dist.app. 130 Bda.					18 S. 65 W.			
						Dist.app. 21 Bda.			
27	eP	02	34	54	2	eLR	03	30	00
	1S		42	21		Santa Cruz Islands Region			
	eLR		49	00		0 = 02.27.41			
	About 1000 miles					10 1/2 S. 164 1/2 E.			
	Southwest of					Dist.app. 130 Bda.			
	Galapagos Islands								
	0 = 02.25.32					2	eLR	04	00
	4 1/2 S. 104 1/2 W.					Solomon Islands			
	Dist.app. 53 Bda.					0 = 02.56.34			
						6 1/2 S. 155 E.			
27	1P	15	27	40		H about 100 km.			
	1S		36	36		Dist.app. 135 Bda.			
	1SS		41	00					
	eLR		48	00		2	eLR	19	55
	Near West Coast of					Felt Near Coast of			
	Greece					Kl Salvador			
	0 = 15.16.35					0 = 19.41.10			
	38 N. 20 1/2 E.					H about 100 km.			
	Dist.app. 68 Bda.								
29	e	13	04	00	2	1P	20	13	24
	eLR		25	00		eS		17	44
	New Hebrides Islands					eLR		21	00
	0 = 12.24.23					Near Coast of			
	14 1/2 S. 167 E.					Oaxaca, Mexico			
	Mag. 5 3/4-6 (Pas)					0 = 20.07.04			
	Dist.app. 130 Bda.					15 N. 92 1/2 W.			
						Dist.app. 30 Bda.			
30	e	18	52	40	3	1P	03	53	56
	eLR		56	00		ePP		56	00
	Gulf of California					ePPP		57	00
	0 = 18.38.18					ePcS		59	00
	27 1/2 N. 112 W.					1S	04	01	36
	Dist.app. 40 Bda.					1ScS		04	12
						(Cont.)			

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Bermuda-Columbia University Seismograph Station					1958				
Date	Phase	h	m	s	Date	Phase	h	m	s
Sep. 3	eSS		05	24	Sep. 8	eLR		23	06
(Cont.)	eLR		09	00		Chile-Argentina Border			
	eT		52	24		0 = 22.24.55			
	eTmax		52	41		34 S. 70 W.			
	Atlantic Ocean					Dist.app. 68 Bda.			
	0 = 03.44.24					9	eLR	23	03
	0 = 18 W.					Near Island Region			
	Dist.app. 55 Bda.					Aleutian Islands			
3	eLR		09	01	00	0 = 22.23.47			
	Off Northeast Coast of					54 N. 171 E.			
	Honshu, Japan					Dist.app. 82 Bda.			
	0 = 08.10.26								
	40 1/2 N. 143 E.					11	eL	19	07
	H about 60 km.					Near East Coast of			
	Dist.app. 104 Bda.					Mindanao, P.I.			
4	1P		22	02	03	0 = 18.01.44			
	1PPP		06	03		7 1/2 N. 126 1/2 E.			
	1S		10	54		Dist.app. 139 Bda.			
	eScS		12	00					
	eSS		15	20		12	eL	06	50
	eLQ		18	30		Indian Ocean			
	eLR		27	00		0 = 05.37.53			
	Chile-Argentina Border					42 S. 80 E.			
	3 killed and major					Dist.app. 151 Bda.			
	property damage at								
	Volcan & San Jose					14	1P	14	34
	0 = 21.51.08					1PP		38	20
	33 1/2 S. 69 1/2 W.					eS		45	40
	Mag. 6-3/4-(Pas)6-3/4(Berk)					ePS		46	51
	Dist.app. 67 Bda.					eL		15	05
						Stanovoni Mountains			
5	eLR		14	27	00	Region Siberia			
	Near Coast of					0 = 14.21.37			
	Sumatra					56 1/2 N. 120 1/2 E.			
	0 = 13.01.55					Mag. 6 1/2-6 1/2 (Pas)			
	5 S. 102 E.					Dist.app. 92 Bda.			
	Dist.app. 151 Bda.								
7	eLR		05	54	00	14	e	21	53
	Solomon Sea					Chagos Archipelago			
	0 = 04.40.57					Region			
	10 S. 153 E.					0 = 21.31.43			
	Dist.app. 139 Bda.					8 1/2 S. 67 E.			
						Dist.app. 130 Bda.			
8	1P		05	38	26	15	eP	05	44
	1PP		41	49		ePP		44	55
	1S		49	00		1S		50	41
	eSS		54	40		eL		57	00
	eLR		06	06	30	Pacific Ocean			
	Near East Coast of					0 = 05.36.18			
	Kamchatka. Depth					8 1/2 N. 103 1/2 W. H about 100 km.			
	slightly greater than					Dist.app. 42 Bda.			
	normal								
	0 = 05.25.37					15	1PKP	20	04
	53 1/2 N. 159 E.					e		06	16
	Dist.app. 87 Bda.					ePKS		07	40
						(Cont.)			

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Bermuda-Columbia University Seismograph Station				1958			
Date	Phase	h	m s	Date	Phase	h	m s
Sep. 15	ePPP		10 55	Sep. 24	iP	03	54 17
	e		29 30		is	04	02 00
	Interpretation Fair				eScS		04 10
	Celebes Sec.				eSS		06 00
	O = 19.45.40				eSSS		08 00
	2½ N. 120½ E.				eLQ		11 00
	H about 600 km				eLR		14 30
	Mag. 6-6½ (Pas)				Gulf of Alaska		
	Dist.app. 145 Bda.				O = 03.44.14		
					59½ N. 143½ W.		
					Mag. 6½(Pas)(Berk)		
					Dist.app. 57 Bda.		
18	e	14	52 20	25	iP	07	26 56
	i		56 47		iPP		28 00
	eLR	15	00 00		i		31 28
	eT		38 00		iS		32 18
	eTmax		38 21		iLQ		34 06
	Mid Atlantic Ocean				eLR		35 30
	O = 14.41.40				Atlantic Ocean		
	½ N. 30 W.				O = 07.20.02		
	Dist.app. 47 Bda.				9 N. 39½ W.		
					Mag. 6½(Pas) 6½-6½(Berk)		
					Dist.app. 34-35 Bda.		
18	eLR	21	47 00	25	eP	07	58 32
	Off Coast of Peru				eS	08	00 41
	O = 21.24.42				e		02 00
	9½ S. 80 W.				eT		10 40
	Dist.app. 45 Bda.				eTmax		11 56
					Interpretation Fair		
					Virgin Islands Region		
					O = 07.55.10		
20	iP	10	39 15	25	eL	21	03 00
	iS		43 36		Pacific Ocean,		
	eLR		44 30		Southeast of		
	eT	11	03 26		Easter Island		
	eTmax		04 11		O = 20.24.44		
	Atlantic Ocean				36 S. 98 W.		
	O = 10.34.00				Dist.app. 76 Bda.		
	15½ N. 46 W.						
	Dist.app. 24 Bda.						
20	ePKP	17	28 48	Oct. 1	iPKP	09	49 34
	iPP		31 20		e	10	03 16
	ePKS		32 19		e		13 00
	iPS		41 22		eLR		38 00
	ePPS		43 40		Antarctic Ocean,		
	eLR	18	11 00		Southwest of		
	Solomon Islands				Macauarie Island		
	O = 17.09.24				O = 09.29.43		
	6½ S. 154½ E.				57 S. 147 E.		
	Dist.app. 135 Bda.				Mag. 6½ (Pas)		
					Dist.app. 147 Bda.		
22	iPKP	19	24 48	2	ePP	04	43 35
	iPF		26 37		(Cont.)		
	iPS		36 48				
	iPPS		38 30				
	iSS		43 25				
	eLR	20	04 00				
	Kermades Islands Region						
	O = 19.05.44						
	33½ S. 177½ W.						
	Mag. 6.3/4(Pas)(Berk)						
	Dist.app. 125 Bda.						

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Bermuda-Columbia University Seismograph Station				1958			
Date	Phase	h	m s	Date	Phase	h	m s
Oct. 2	eSS		57 56	Oct. 28	O = 10.46.27		
(Cont.)	eLR	05	12 00	(Cont.)	30½ N. 85 E.		
	Sandwich Islands Region				Dist.app. III Bda.		
	O = 04.25.30						
	58½ S. 10 W.			29	eS	00	12 10
	Dist.app. 102 Bda.				eLR		30 00
					Andreanof Islands		
					Aleutian Islands		
					O = 23.50.08		
					52 N. 179½ E.		
					Dist.app. 79 Bda.		
6	eLR	19	42 00	29	iP	07	56 18
	Near East Coast of				iS	08	06 16
	Kamchatka				eSS		12 02
	O = 18.52.40				eLQ		16 24
	55½ N. 162½ E.				eLR		20 00
	Dist.app. 84 Bda.				Andreanof Islands		
					Aleutian Islands		
					O = 07.44.10		
					51½ N. 179½ E.		
					Mag. 6½(Pas) 6½(Berk)		
					Dist.app. 79 Bda.		
7	eLR	13	30 00	31	eLR	20	10 00
	New Britain				New Guinea		
	O = 12.32.40				O = 19.02.54		
	5 S. 151½ E.				3½ S. 143½ E.		
	Mag. 6½-6½(Berk)				Dist.app. 141 Bda.		
	Dist.app. 136 Bda.						
9	i	11	44 35	Nov. 1	e	03	59 50
	e		51 04		i	04	01 35
	e		57 00		e		10 10
	Sandwich Islands Region				e		18 44
	O = 11.20.17				e		27 00
	56½ S. 27½ W.				eLR		37 00
	Dist.app. 99 Bda.				Bismarck Sea		
					O = 03.38.36		
					3 S. 150 E.		
					Dist.app. 136 Bda.		
11	eL	01	07 00	I	eLR	07	11 00
	Yukon Territory				New Guinea		
	O = 00.41.35				Aftershock		
	65½ N. 132½ W				O = 06.06.47		
	Dist.app. 52 Bda.				3½ S. 145½ E.		
					Dist.app. 140 Bda.		
19	eLR	12	53 00	I	e	12	49 56
	Kermadec Islands				e		56 00
	Region				eLR		13 19 00
	O = 11.42.42				New Hebrides Islands		
	34½ S. 178 W.				Foresock		
	Dist.app. 125 Bda.				O = 12.09.21		
					(Cont.)		
20	iPKP	01	32 21				
	ePP		36 24				
	eSKS		39 30				
	Off South Coast of						
	Java						
	O = 01.12.30						
	9½ S. 112½ E.						
	Dist.app. 157 Bda.						
28	e	11	05 46				
	e		13 46				
	e		15 20				
	eL		40 00				
	Southern Tibet						
	(Cont.)						

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Bermuda-Columbia University Seismograph Station 1958

Date	Phase	h	m	s	Date	Phase	h	m	s
Nov. 1	17½ S. 168 E. (Cont.) Dist.app. 130 Bda.				Nov. 10	eLR Pacific Ocean Foreshock 0 = 06.58.00	07	26	00
1	ePP ePKS ePPS eSS eLR New Hebrides Islands Aftershock 0 = 15.50.10 17½ S. 168 E. Dist.app. 130 Bda.	16	11	40	10	1S eLR Pacific Ocean 0 = 11.13.05 9 S. 110 W. Dist.app. 60 Bda.	11	31	33
2	eLR Andeanof Islands Aleutian Islands 0 = 10.44.47 51½ N. 175 W. Dist.app. 77 Bda.	11	23	00	12	e Venezuela 0 = 06.09.10 9½ N. 70 W. Dist.app. 24 Bda.	06	19	00
4	eS ePS eSS eLR South Pacific Ocean 0 = 22.54.46 50 S. 115 W. Mag. 6(Pas) Dist.app. 94 Bda.	23	19	10	12	eL Solomon Islands 0 = 10.39.47 7 S. 156 E. H about 100 km. Dist.app. 134 Bda.	11	44	00
6	1 Kurile Islands 0 = 22.58.10 44½ N. 148½ E. Mag. 8-8½(Pas)(Berk) H about 100 km. Minor seismic sea wave Dist.app. 98 Bda.	23	11	39	12	1P 1PP e e ePS Kurile Islands Felt Hokkaido and Northern Honshu, Japan 0 = 20.23.36 44½ N. 149 E. Mag. 6-3/4 - 7(Pas) Dist.app. 98 Bda.	20	37	11
7	e Kurile Islands 0 = 10.29.17 44 N. 148 E. Dist.app. 99 Bda.	11	50	00	13	eL Kurile Islands 0 = 02.56.26 44 N. 148 E. Dist.app. 98 Bda.	03	49	00
8	e eL Off Southeast Coast of Kamchatka 0 = 09.22.53 53 N. 159½ E. Dist.app. 88 Bda.	09	46	10	13	e ePS eSS eLR Kurile Islands 0 = 04.04.37 44½ N. 148 E. Dist.app. 98 Bda.	04	28	53
					13	eLR Venezuela 0 = 09.06.18 9½ N 70 W. Dist.app. 24 Bda.	09	16	00

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Bermuda-Columbia University Seismograph Station 1958

Date	Phase	h	m	s	Date	Phase	h	m	s
Nov. 14	1P es South Pacific Ocean 0 = 05.04.25 36 S. 102 W. Dist.app. 77 Bda.	05	16	16	Nov. 16	eLR Kurile Islands 0 = 06.15.30 44 N. 148½ E. Dist.app. 98 Bda.	07	11	00
14	1P eLR Guatemala 0 = 05.46.34 14½ N. 91½ W. H about 150 km. Dist.app. 30 Bda.	05	52	29	16	1PP ePS eSS eLR Samoa Islands Region 0 = 17.44.48 16 S. 172 W. Mag. 6½(Pas) Dist.app. 113 Bda.	18	04	00
14	1PKP1 ePKP2 ePKS ePKKP eSKSP eL Banda Sea 0 = 13.48.20 6 S. 131 E. Dist.app. 150 Bda.	14	08	06	16	eLR Pacific Ocean 0 = 22.41.15 5 N. 83 W. Dist.app. 32 Bda.	22	55	00
14	eLR Nicaragua Managua felt 0 = 15.22.16 13 N. 86 W. H about 100 km. Dist.app. 28 Bda.	15	33	00	17	ePKS ePPS eLR Solomon Islands 0 = 09.46.30 10½ S. 162½ E. Dist.app. 131 Bda.	10	09	08
15	1PP eSKS eLR Kurile Islands 0 = 09.00.45 44 N. 149 E. Mag. 6½-6 3/4(Berk) Dist.app. 98 Bda.	09	18	17	18	e eLR Aleutian Islands Aftershock 0 = 07.56.31 51½ N. 178½ E. Dist.app. 80 Bda.	08	07	30
15	eLR Samoa Islands Region 0 = 19.15.03 15½ S. 174 W. Dist.app. 114 Bda.	20	12	00	19	ePP ePS eSS eLR Kurile Islands 0 = 09.23.45 44 N. 149 E. Dist.app. 98 Bda.	09	41	28
16	eLR Kurile Islands 0 = 04.47.31 44½ N. 149 E. Dist.app. 98 Bda.	05	41	00	19	eLR Kenai Peninsula, Alaska 0 = 15.02.15 60½ N. 150½ W. H about 60 km. Dist.app. 61 Bda.	15	31	00

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Bermuda-Columbia University Seismograph Station				1958					
Date	Phase	h	m	s	Date	Phase	h	m	s
Nov. 20	eP	05	49	28	Dec. 1	32-3 N. 115-8 W.			
	eS	06	00	07	(Cont.)	Mag. 5.7 (Pas)			
	eLR		19	00		Dist.app. 41 Bda.			
	Off Coast of Kamchatka O = 05.36.33 52 N. 159½ E. Dist.app. 88 Bda.					1 eT	07	46	57
						North Atlantic Ocean O = 07.21.53 30½ N. 41 W. Dist.app. 21 Bda.			
20	ePP	14	35	24					
	eS		42	25					
	eSS		49	25					
	eLR	15	10	00		3 eLR	10	51	00
	Kurile Islands O = 14.18.04 45 N. 149½ E. H about 60 km. Dist.app. 97 Bda.					Near North Coast of Luzon, P.I. O = 09.48.26 19 N. 121½ E. Dist.app. 129 Bda.			
22	ePKP	00	24	24		4 eP	19	25	16
	ePP		28	34		eS		30	10
	eSKSP		39	00		eLR		32	30
	eSS		50	25		Near Coast of Nicaragua O = 19.19.23 11½ N. 86½ W. H about 100 km. Dist.app. 29 Bda.			
	eLR	01	19	00		6 1P	09	40	04
	South of Java O = 00.04.20 10½ S. 112½ E. Dist.app. 159 Bda.					1PPP		41	08
22	ePKP	02	16	12		eS		44	56
	eLR	03	09	00		eLR		47	30
	Ceram Islands Region O = 01.56.56 4 S. 131½ E. Dist.app. 148 Bda.					South of Panama O = 09.33.45 6½ N. 83 W. Mag. 6-6½ (Pas) Dist.app. 31 Bda.			
24	eP	22	30	33		7 eP	18	05	28
	eS		33	06		ePP		06	40
	eLR		33	30		eS		11	28
	eT		44	45		eL		16	30
	eTmax		46	02		Off Coast of Mexico O = 17.58.08 18 N. 105 W. Mag. 6 (Berk) H about 100 km. Dist.app. 39 Bda.			
	Leeward Islands St. John's, Antigua felt O = 22.26.49 16 N. 61 W. Dist.app. 17 Bda.					10 1PKP	07	21	32
Dec. 1	eLR	03	41	00		1PP		23	48
	California-Mexico Border. Minor damage at Calexico, El Centro & San Diego. Felt thruout Southern California & Western Arizona O = 03.21.17 (Cont.)					1PKS		24	57
						1		31	44
						1PS		33	38
						ePPS		35	57
						1SS		41	00
						eSKSSKS		43	20
						e		46	16
						eSSS		56	00
						(Cont.)			

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Bermuda-Columbia University Seismograph Station				1958					
Date	Phase	h	m	s	Date	Phase	h	m	s
Dec. 10	Off North Island, New Zealand				Dec. 20	eLR	20	20	16
	O = 07.02.59					Ryukyu Island Region O = 19.20.43 28½ N. 127½ E. Dist.app. 118 Bda.			
	37 S. 176½ E. H about 300 km. Mag. 6-3/4 (Pas) 6½-6 3/4 (Berk) Dist.app. 130 Bda.				21 e		06	12	30
					eLR		30	00	
10	eL	16	25	00	Western Sinkiang Province, China O = 05.46.26 4½ N. 81 E. Dist.app. 98 Bda.				
	Off West Coast of Columbia O = 16.11.02 3 N. 83 W. Dist.app. 34 Bda.				25 eLR		09	09	00
10	1PP	21	58	25	New Britain O = 08.05.33 5½ S. 151½ E. Mag. 6-3/4 (Pas) Dist.app. 137 Bda.				
	eS	22	03	15	28 eL		05	22	00
	eSS		06	00	Northwestern Venezuela O = 05.13.15 9½ N. 70 W. Dist.app. 24 Bda.				
	eLR		07	30	28 eL		06	35	00
	Gulf of California O = 21.49.20 24½ N. 109 W. Mag. 5 3/4 (Pas) (Berk) Dist.app. 39 Bda.				Western Nepal India Border O = 05.34.36 29½ N. 80 E. Dist.app. 110 Bda.				
14	eS	07	33	25	30 eS		09	00	00
	eLQ		44	21	eLR		14	00	
	eLR		47	00	South Pacific Ocean O = 07.11.28 35 S. 108½ W. Mag. 6 (Pas) Dist.app. 79 Bda.				
14	eL	13	48	00	14 eL		13	48	00
	Lower Gulf of California O = 13.26.51 23 N. 108 W. Dist.app. 40 Bda.				18 eL		20	20	00
18	eL	20	20	00	Tonga Islands Region O = 19.23.53 16 S. 173 W. Dist.app. 114 Bda.				
19	eS	18	58	16	19 eS		18	58	16
	eLR	19	16	00	Andreevanof Island Aleutian Islands O = 18.36.23 51½ N. 177½ W. Dist.app. 78 Bda.				

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Bermuda-Columbia University Seismograph Station						1959			
Date	Phase	h	m	s	Date	Phase	h	m	s
Jan. 3	eS	11	22	10	Jan. 24	eLR	19	56	00
	eSS		37	00		Mexico-Guatemala			
	eLR		42	00		Border			
	Near Coast of Peru					O = 19.42.20			
	O = 11.17.38					15 N. 92½ W.			
	14½ N. 75½ W.					Mag. 6½			
	Dist.app. 48 Bda.					Dist.app. 30 Bda.			
8	1P	01	37	48	24	eP	20	01	46
	1S		40	44		ePP		03	00
	eLR		41	40		eS		07	10
	eT		52	16		eLR		09	00
	eTmax		54	12		Azores			
	eT		58	00		O = 19.55.14			
	Windward Islands					37½ N. 34½ W.			
	Trinidad felt					Mag. 6½			
	O = 01.33.48					Dist.app. 33 Bda.			
	15½ N. 61 W.				27	1P	00	23	50
	H about 100 km.					1S		26	20
	Mag. 6½ - 6 3/4(Pas)					eT		36	50
	Dist.app. 17 Bda.					eTmax		38	22
13	e	01	53	34		Eastern Dominican			
	eL	02	21	00		Republics			
	Mariana Islands					O = 00.20.22			
	O = 01.15.25					18 N. 68½ W.			
	13½ S. 146 E.					H about 100 km.			
	Mag. 6 3/4					Dist.app. 15 Bda.			
	Dist.app. 125 Bda.				28	eP	10	14	46
13	e	08	42	00		eS		23	23
	eL		47	00		eLR		26	00
	Costa Rica					Juan Fernandes			
	O = 08.34.08					Islands			
	9 N. 83½ W.					O = 10.04.10			
	H about 100 km.					30½ S. 79 W.			
	Dist.app. 29 Bda.					Mag. 6½			
						Dist.app. 65 Bda.			
16	eLR	17	16	00	29	eP	20	33	15
	Queen Charlotte Islands					eS		42	57
	O = 16.50.40					eLR	21	00	00
	52 N. 131½ W.					Aleutian Islands			
	Dist.app. 51 Bda.					O = 20.21.27			
22	1PKP	05	28	08		52 N. 174 W.			
	e		29	06		Mag. 5 3/4 - 6			
	e		36	30		Dist.app. 76 Bda.			
	e		43	30	29	eP	23	33	54
	e		48	20		1S		41	36
	eLR	06	03	00		eLR		49	00
	Near East Coast of					Spitzbergen			
	Honshu, Japan					O = 23.24.30			
	Depth normal					71 N. 8 E.			
	O = 05.10.25					Dist.app. 55 Bda.			
	34 N. 142 E.								
	Mag. 7								
	Dist.app. 109 Bda.								

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Bermuda-Columbia University Seismograph Station						1959				
Date	Phase	h	m	s	Date	Phase	h	m	s	
Jan. 30	eLR	01	21	00	Feb. 9	eP	04	54	40	
	Solomon Islands					ePP		57	40	
	O = 00.19.25					eS	05	04	40	
	10 S. 161 E.					eSS		09	44	
	Mag. 6 3/4					eLQ		15	00	
	Dist.app. 132 Bda.					eLR		20	00	
30	e		21	05	46	Aleutian Islands				
	eLQ		34	00		O = 04.42.33				
	eLR		36	00		50½ N. 177½ W.				
	Japan					Dist.app. 79 Bda.				
	O = 20.38.58				11	1P	13	59	00	
	44 N. 144 E.					eLR	14	12	00	
	Mag. 5 3/4 - 6					Oaxaca, Mexico				
	Dist.app. 99 Bda.					O = 13.52.13				
30	eL	22	59	00		16 N. 97 W.				
	eLR	23	11	00		Mag. 6				
	Japan					Dist.app. 33 Bda.				
	O = 22.16.47				15	1P	04	12	56	
	44 N. 144 E.					1PP		16	44	
	Mag. 6½					eS		24	20	
	Dist.app. 99 Bda.					eSS		31	00	
Feb. 6	eP		14	45	00	eLQ		39	00	
	eS		54	40		eLR		44	00	
	eLR		15	15	00	Sandwich Islands				
	Aleutian Islands					O = 03.59.25				
	O = 14.32.58					59½ S. 25 W.				
	51½ N. 175½ W.					Mag. 6½ - 6 3/4				
	Dist.app. 77 Bda.					Dist.app. 98 Bda.				
7	1PP		45	48		16	1P	00	46	50
	1S		50	13		1PP		48	00	
	eLR		54	00		eS		52	25	
	Near Coast of					e		55	00	
	Northern Peru					e		57	00	
	O = 09.36.51					eLR		58	30	
	4 S. 81½ W.					Near Coast of				
	Mag. 7½ - 7½					Ecuador				
	Dist.app. 40 Bda.					O = 00.39.32				
8	1P	01	08	56		1 S. 81½ W.				
	eS		13	58		Dist.app. 39 Bda.				
	eLR		16	00		17	eP	12	14	48
	eT		41	32		eS		24	22	
	eTmax		42	10		1SS		29	10	
	North Atlantic					Fox Islands				
	O = 01.02.26					O = 12.03.05				
	49 N. 28½ W.					51½ N. 171 W.				
	Dist.app. 32 Bda.					Mag. 6 - 6½				
						Dist.app. 75 Bda.				

Bermuda-Columbia University Seismograph Station 1959

Date	Phase	h	m	s	Date	Phase	h	m	s
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Mar. 29	iP	05	43	15					
	iS		45	30					
	eLR		46	00					
	eT		57	05					
	eTmax		57	30					
	Virgin Islands								
	Puerto Rico &								
	Virgin Islands felt								
	O = 05.39.58								
	19 N. 64 $\frac{1}{2}$ W.								
	Dist.app. 13 Bda.								

31	e	07	46	12					
	e		56	20					
	e	08	13	10					
	eL		17	00					
	Samoa Islands Region								
	Apia felt								
	O = 07.20.45								
	15 S. 173 W.								
	Mag. 6 (Pas)								
	Dist.app. 113 Bda.								