

HARVARD UNIVERSITY  
SEISMOGRAPH STATION

Bulletin Number 41



July 1, 1953 through December 31, 1953

Part A of Paper Number 157, published under the auspices of  
the Committee on Experimental Geology and Geophysics and of  
the Division of Geological Sciences at Harvard University

DATE 1953	Phase	Time	Remarks
Jul. 5	iP	13-17-12 (c)	CGS: H <sub>0</sub> = 13-04-58 47 1/2° N, 157° E (Kurile Islands)
Jul. 6	iP	07-14-21.5 (c)	.
Jul. 6	eP eS eT	20-22-29 26-49 45.2	Possible Carribean
Jul. 6	iP' iPP eR	22-14-53 (c) 18-16 23-02.0	CGS: H = 21-55-30 (Southeastern New Guinea)
Jul. 7	eP' ePP	04-26-44 29-53	CGS: H = 04-07-23 1° N, 100° E (Sumatra) Dist. (meas.) = 15,150 km.
Jul. 7	eP	13-56-14	CGS: H <sub>0</sub> = 13-44-03 47 1/2° N, 156° E (Kurile Islands)
Jul. 7	eR	18-35.3	CGS: H = 17-28-25 31° N, 141 1/2° E (South of Honshu, Japan)
Jul. 7	eR	21-00.0	CGS: H = 20-46-03 24° N, 45° W (North Atlantic Ocean)
Jul. 8	iP	13-15-57 (d)	CGS: H = 13-06-10 (Fox Islands, Aleutian Islands)
Jul. 9	iP	08-12-39.5 (c)	CGS: H = 08-02-17 (Northern Chile) Felt. Montezuma h = 100 km. ca.
Jul. 9	iP	12-46-32 (c)	
Jul. 9	eR	19-52.3	CGS: H = 19-02-03 41° N, 77° E (western Sinkiang province, China)
Jul. 9	iP	20-52-16.5 (c)	
Jul. 9	iP iPP eS	21-29-26 30-01 34-00	CGS: H = 21-23-48 30° N, 42 1/2° W (North Atlantic Ocean) Dist. (meas.) = 2850 km.

DATE 1953	Phase	Time	Remarks
Jul. 10	eP	07-30-15	CGS: H = 07-20-18 16° S, 76° W Off coast of Peru Dist. (meas.) = 6500 km.
Jul. 10	eS eQ eL	13-10-57 11-15 13-46	
Jul. 10	iP' i ipP' isP' iPP ipPP ipPKS eSKKS eSKSP eSS	15-29-13.5 26 31-20 32-01 30 34-22 58 38-15 41-50 50-23	BCIS: 6 1/2° S, 113 1/2° E HARVARD H = 15-10-39.5 (Java Sea) h = 500 km. ca.
Jul. 12	eP' iPKS eSKS eSKKKS ePS	07-02-19.5 05-49 09-24 11-40 14-58	CGS: H = 06-43-05 2° S, 139 1/2° E (Near north coast of New Guinea) mg. = 6 1/2 Pas. Dist. (meas.) = 14,500 km. ca.
Jul. 12	i	22-47-01	
Jul. 15	iP	02-47-35 (d)	CGS: H = 02-35-25 48 1/2° N, 154 1/2° E (Kurile Islands) h = 60 km. ca.
Jul. 17	e	13-31-25	
Jul. 17	iP	14-29-14.5 (d)	
Jul. 18	P <sub>1</sub> S <sub>2</sub> s <sub>1</sub>	17-02-11 51 03-00	Local H = 17-01-09 Dist. . . . 380 km. ca.
Jul. 20	eP' iPP isPP eS esS ePKKP ePS eSS esSS	08-26-48 27-58 28-44 35-48 36-32 37-15 50 44-09 49	CGS: H = 08-08-20 21° S, 177° W (Tonga Islands region) h = 100 km. ca. mg. = 6 1/2 Pas. Dist. (meas.) = 12,850 km.
Jul. 21	i	06-08-22	



DATE	Phase	Time	Remarks
1953			
Jul. 21	e	09-16-46	
Jul. 21	eP'	17-41-06	CGS: H = 17-22-39 27 1/2° N, 128° E (Ryukyu Islands) Dist. (meas.) = 11,900 km. ca.
Jul. 22	iP iPcP ePP iS iScS ePPS eSS	05-23-09 24 26-06 32-56 33-21 45 37-37	CGS: H = 05-11-15 51° N, 157° E (Near south coast of Kam- chatka) Dist. (meas.) = 8,550 km. h = 60 km. ca. Mg. = 6 3/4 - 7 Pas. 6 3/4 Berk.
Jul. 22	eL	10-59.5	CGS: H = 10-37-20 48 1/2° N, 128° W (Off coast of Vancouver, B.C.)
Jul. 22	eL	13-52.0	CGS: H = 12-52-12 42 1/2° N, 143° E (Near south coast of Hokkaido, Japan)
Jul. 22	eP	17-56-15	H = 17-50-22 (Foreshock of North At- lantic Ocean quake, July 22)
Jul. 22	eP	18-10-13	CGS: H = 18-04-30 26 1/2° N, 44 1/2° W (North Atlantic Ocean) Dist. (meas.) = 2,950 km.
Jul. 23	eL	19-11.3	CGS: H = 18-24-14 (Off southeast coast of Kamchatka)
Jul. 25	eL	18-26.0	BCIS: H = 27-17.2 (Tonga Island Region)
Jul. 26	eP	13-15-06	CGS: H = 13-05-20 (Near south coast of Peru Felt: Ica) h = 60 km. ca.
Jul. 26	eP eP' iPP iSP eSPP eSSS	17-07-33 11-23 12-11 21-17 22-29 30-48	CGS: H = 16-53-16 17 1/2° N, 145° E (Marianas Islands) h = 200 km. ca. Mg. = 7 Pas. Dist. (meas.) 12,300 km.



DATE 1953	Phase	Time	Remarks
Jul. 28	eP	05-46-22	Tagubaya: H = 05-42-50 13° 04' N, 88° 29' W (Near the coast of El Salvador) h = 100 km. ca.
Jul. 28	eP	07-14-20	CGS: H = 07-02-15 (Northern Kurile Islands)
Jul. 28	iP'	07-57-26	CGS: H = 07-39-41 21° S, 178 1/2° W (Fiji Islands region) h = 550 km. ca. Mg. = 6 1/4 Pas. Dist. (meas.) 12,950 km.
Jul. 28	eP eS eT	15-31-43 35-40 52.0	CGS: H = 15-26-34 (Near north coast of Dominica Republic)
Jul. 28	i	16-00-41.5 (d)	
Jul. 28	e(T)	17-09-23	
Jul. 28	i	21-26-57	
Jul. 29	iP eL	13-43-52 (c) 14-05.3	CGS: H = 13-32-36 (Mid-Atlantic Ocean about 350 miles north of Ascension Island)
Jul. 29	e	14-16-16	
Jul. 29	i	15-19-53.5 (d)	
Jul. 29	i	18-02-00	
Jul. 29	iP eS eLQ	18-22-16.5 (c) 27-40 35-33	CGS: H = 18-15-34 (Off coast of Guatemala) Mg. = 6 Pas. Dist. (meas.) = 3,700 km
Jul. 29	eP' eSKS ePS	23-36-45 43-13 46-26	CGS: H = 23-18-02 16° S, 173° W (Fiji Islands region) Felt: Apia Mg. = 6 1/2 Pas. Dist. (meas.) = 12,100 km.
Jul. 30	eL	07-05.0	CGS: H = 06-28-53 52° N, 160° E (Off southeast coast of Kamchatka)
Jul. 30	iP	20-44-40	

DATE 1955	Phase	Time	Remarks	8
Jul. 30	iP iPcP	21-13-25 (d) 55	CGS: H = 21-02-54 22° S, 69° W (Northern Chile. Felt: Antofagasta) h = 100 km. ca.	
Jul. 30	e(SP) eL	24-12-35 30.6	CGS: H = 23-44-44 19° N, 145° E (Marianas Island) h = 200 km. ca. Dist. (meas.) = 12,250 km. ca.	
Jul. 31	iF eS eT	19-36-21.5 (c) 40-38 57.3		
Jul. 31	e(T)	20-07.7		
Jul. 31	eP ePP eL	23-09-23 12-18 38.5	CGS: H = 22-57-30 (Mendoza Province Argentina Felt)	
Aug. 1	eL	01-32.5	CGS: H = 00-30-07 18 1/2° S, 174° W (Tonga Islands)	
Aug. 1	eL	04-28.6	CGS: H = 04-10-53 (North Atlantic Ocean. About 500 miles north of Azores Islands)	
Aug. 1	iP	10-28-22.5 (c)		
Aug. 1	iP'	18-28-36	BCIS: H = 18-09-06 7 1/2° S, 129 1/2° E (Banda Sea)	
Aug. 2	eL	09-50.5	CGS: H = 08-44-51 21° S, 170° E (Loyalty Islands)	
Aug. 2	eP'	17-39-02	CGS: H = 17-19-59 (Loyalty Islands region)	
Aug. 2	e(L)	21-51.5	CGS: H = 20-59-29 (Bonin Islands region) h = 200 km. ca.	
Aug. 3	eL	15-15.0	CGS: H = 14-17-35 17 1/2° S, 173° W (Tonga Islands) h = 60 km. ca.	

DATE 1953	Phase	Time	Remarks
Aug. 4	eL	10-50.2	CGS: H = 10-26-22 (Off coast of Vancouver, B.C.)
Aug. 4	eP'	14-11-53	CGS: H = 13-53-16 (New Hebrides Islands) h = 200 km. ca.
Aug. 6	e	00-49-43	
Aug. 6	iP	06-30-25.5 (c)	CGS: H = 06-18-32 51 1/2° N, 156 1/2° E (Near south coast of Kam- chatka) h = 60 km. ca.
Aug. 6	iP	09-12-37 (c)	CGS: H = 09-00-49 52 1/2° N, 159 1/2° E (Off east coast of Kamchatka) Dist. (meas.) = 8,350 km.
Aug. 6	i	15-13-10	
Aug. 6	eP	19-08-53	CGS: H = 18-55-42 45° N, 86° E (Sinkiang Province) Dist. (meas.) = 10,000 km.
Aug. 6	i	16-11-09	
Aug. 6	i	18-44-11	
	i	45-06	
Aug. 6	i	20-09-25	
Aug. 6	iP	20-54-49 (d)	CGS: H = 20-42-49 (Off southeast coast of Kam- chatka) h = 60 km. ca.
Aug. 7	iP	06-32-39 (d)	CGS : H = 06-22-43 54° N, 163 1/2° W (Off coast of Unimak Island)
Aug. 8	eP	15-32-23	Possible Carribean
	eS	36-15	
	eT	52.8	
Aug. 8	eP	16-51-47	Possible Carribean
	eT	17-12.9	
Aug. 8	eP	17-25-42	Possible Carribean
	eS	29-34	
	eT	45.7	



DATE 1953	Phase	Time	Remarks	10
Aug. 8	iP	18-51-17.5 (c)	CGS: H <sub>0</sub> = 18-39-30 52 1/2° N, 159 1/2° E (Off east coast of Kamchatka)	
Aug. 9	iP iPcP iS	06-03-50 (d) 04-20 12-21	CGS: H = 05-53-24 22° S, 68 1/2° W (Northern Chile. Felt: Calama) h = 150 km. ca. Mg. = 6 1/4 Pas. Dist. (meas.) = 7,150 km.	
Aug. 9	iP ePPP eS eSS eL	07-52-03.5 56-10 08-01-00 05-05 08.1	CGS: H = 07-41-05 Foreshock of quake Aug. 12. (Greece) Mg. = 6 3/4 Pas.	
Aug. 9	eP	15-53-23		
Aug. 10	eR	02-14.8		
Aug. 11	iP eS eScS G	03-43-18.5 (d) 52-16 53-26 59-38	CGS: H = 03-32-24 Foreshock of quake Aug. 12 - Greece Mg. = 6 3/4 Pas.	
Aug. 11	eP	12-20-08	CGS: H = 12-09-10 (Andreanof Islands, Aleutian Islands)	
Aug. 12	eP	06-19-00	CGS: H <sub>0</sub> = 06-08-03 38 1/2° N, 21° E (Greece Foreshock)	
Aug. 12	iP iS iSS eSSS iL eP'P'	09-34-48.5 (c) 43-48 48-03 51-04 51-22 10-03-18	CGS: H <sub>0</sub> = 09-23-55 38 1/2° N, 21° E (Near west coast of Greece. Heavy casualties and ex- tensive property damage.) Mg. = 7 1/4 Pas. - Berk. Dist. (meas.) = 7,400 km.	
Aug. 12	iP iS eL	12-16-18 (c) 25-16 40.5	CGS : H = 12-05-22 38° N, 21° E (Off west coast of Greece) Mg. = 6 Pas. Dist. (meas.) = 7,400 km.	
Aug. 12	iP	13-50-18.5 (d)	CGS: H <sub>0</sub> = 13-39-23 38 1/2° N, 21° E (Greece aftershock)	

DATE 1953	Phase	Time	Remarks
Aug. 12	iP eS	14-19-35 (d) 28-38	CGS: H = 14-08-38 38° N, 21° E (Greece aftershock)
Aug. 12	e	14-33-32	
Aug. 12	iP	16-19-27.5 (d)	CGS: H = 16-08-32 38 1/2° N, 21° E (Greece aftershock)
Aug. 12	e(P) eL	17-08-53 51.6	CGS: H = 16-53-42 22° S, 175° W (Tonga Islands) Mg. 6 1/4 Pas. 6 1/2 Berk Dist. (meas.) = 12,700 km.
Aug. 12	eP	20-49-42	
Aug. 13	eP	01-37-49	
Aug. 13	iP	03-33-02 (c)	CGS: H=03-22-06 38 1/2° N, 21° E (Greece aftershock)
Aug. 13	eP	04-29-32	BCIS: H=04-17.5 m (Off South coast of Kamchatka)
Aug. 13	eP eL	06-12-18 37.3	CGS: H=06-02-12 53° N, 167° W (Fox Islands, Aleutian Islands)
Aug. 13	iP' iPP isPP eSKKS e(SKKP) eSS	09-42-10 (d) 44-04 45-07 51-26 56-08 10-01-40	CGS: H=09-23-23 21 1/2° S, 170° E (Loyalty Islands) h = 150 km. ca. Mg. 6 3/4-7 Pas. Dist. (meas) = 13,950 km.
Aug. 13	eP	10-14-12	Tagubaya H=10-07-34 12° 05' N, 90° 40' W (Off the south coast of Guatemala)
Aug. 13	eP	10-27-45	CGS: H=10-16-50 38 1/2° N, 21° E (Greece aftershock)
Aug. 14	i i i i	20-17-05.5 10 26.7 28.8	

Date 1953	Phase	Time	Remarks	12
Aug. 16	iP ipP	03-18-31.5 (d) 19-10	CGS: H=03-09-50 7° S, 74° W (Central Peru - Brazil border) h = 150 km. ca. Dist. (meas.) = 5,450 km.	
Aug. 16	eP	04-10-45		
Aug. 17	eP	02-23-18	CGS: H=02-12-22 (Greece aftershock)	
Aug. 17	iP' i	03-34-12.5 (c) 21	CGS: H=03-14-33 7 1/2° S, 115° E (Java Sea)	
Aug. 17	iP i	18-28-39 (c) 29-12	CGS: H=18-16-55 53° N, 159° E (Near east coast of Kamchatka)	
Aug. 17	e iL	21-55-14 (d) 22-05-20	CGS: H=21-47-22 76 1/2° N, 92° W (Devon Island, Canada) Dist. (meas.) = 3,950 km.	
Aug. 18	iP	18-27-40 (c)		
Aug. 18	eP	22-54-38	CGS: H=22-43-47 (Greece aftershock)	
Aug. 19	iP isP	08-27-02 (c) 57	CGS: H=08-21-00 14 1/2° N, 59 1/2° W (Windward Island) h = 100 km.	
Aug. 20	iP	19-38-13 (d)	CGS: H=19-27-18 (Greece aftershock)	
Aug. 21	iP e	03-43-38 (c) 49		
Aug. 21	iP eS	13-36-27.5 (d) 40-15	CGS: H=13-31-05 Foreshock of quake Aug. 21 (Near west coast of Puerto Rico)	
Aug. 21	iP iS	13-37-07.5 (c) 40-57	CGS: H=13-31-30 18° N, 67° W (Near west coast of Puerto Rico)	
Aug. 21	iP ipP i (FP) (FCF)	16-53-13 (c) 52 55-22	CGS: H=16-45-57 4° N, 76 1/2° W (western Colombia Felt) h = 150 km. ca.	



DATE 1953	Phase	Time		Remarks
Aug. 22	iP' ipP' i i i	00-40-19.5 50 42-23 43-32.5 44-19	(d)	CGS: H=00-21-06 6° S, 147° E (Near east coast of New Guinea)
Aug. 23	iP eS G Lr	07-29-10 38-22 45-40 49.3	(d)	CGS: H=07-18-06 1° S, 14° W (Mid-Atlantic Ocean) Dist. (meas.) 7,400 km.
Aug. 23	iP	12-14-30.5	(d)	
Aug. 23	iP	23-34-41	(d)	
Aug. 24	eP	04-44-40.5		CGS: H=04-37-36 5° N, 72° W (Central Colombia)
Aug. 24	iP ipP iS isS iLq eLr	13-27-30.5 46 32-45 33-20 34-16 36.1	(d)	CGS: H=13-21-00 14 1/2° N, 91° W (Guatemala) h = 100 km. ca. Mg. = 6 1/2 Pas. - 6 3/4 Berk. Dist. (meas.) 3,650 km.
Aug. 25	iP' iPP eSS	02-23-20.5 25-13 42-28	(d)	CGS: H=02-04-13 5° S, 152° E (New Britain) Mg. = 7 Berk. Dist. (meas.) = 14,000 km.
Aug. 26	iP	19-16-23	(c)	CGS: H=19-04-00 (About 900 miles southeast of Easter Island)
Aug. 27	i eL	13-35-12 46.5		
Aug. 27	eL	22-06.7		
Aug. 27	iP isP iS	22-29-17 51.5 39-51		CGS: H=22-16-30 44° N, 142 1/2° E (Hokkaido, Japan - Felt: Hokkaido and northern Honshu) h = 100 km. ca. Mg. = 6 Pas. (ca.)
Aug. 27	ePP eL	23-51-18 00-25.5		BCIS: H=23-32-10 58° S, 28° W (Sandwich Islands)
Aug. 28	iP	08-25-39		
Aug. 28	eL	11-13-33		CGS: H=10-50-00 (East-Central Alaska)

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Aug. 28	iP	15-02-31.5 (c)	
Aug. 28	i	20-19-07.5 (c)	
Aug. 28	iP	20-49-42 (d)	CGS: H=20-38-56 (Off west coast of Greece)
Aug. 29	i	16-28-17 (d)	BCIS: H=16-08-02 63° S, 160° E
Aug. 31	eP	04-16-54	CGS: H=04-05-08 52 1/2° N, 161° E (Near east coast of Kamchatka)
Aug. 31	iP	08-04-23 (c)	CGS: H=07-52-46 53 1/2° N, 160° E (Near east coast of Kamchatka) h = 60 km. ca. Mg. = 6 1/4 Pas.
Aug. 31	eP	17-21-51	CGS: H=17-10-06 53° N, 160° E (Near east coast of Kamchatka)
Aug. 31	eP i	17-27-02 12.5	CGS: H=17-15-20 53° N, 160° E (Near east coast of Kamchatka)
Sept. 2	eP	00-48-15	CGS: H=00-36-00 Azerbaijan, S.J.R.
Sept. 2	eP eS eT	05-44-53 (d) 48-52 06-05.7	
Sept. 2	iP	07-56-13 (c)	BCIS: Disturbance in Philippines region
Sept. 2	iP	13-40-51 (c)	BCIS: Disturbance possible an epicentre SE of l'île de Paques
Sept. 4	iP iS i i eSS	07-35-03.5 (c) 44-53 45-19 34 50-00	CGS: H=07-23-05 50° N, 156 1/2° E (Kurile Islands) h = 60 km. ca. Mg. = 6 3/4-7 Pas. Dist. (meas.) = 8,750 km.
Sept. 4	iP i iS	14-18-54 19-07 28-32	CGS: H=14-07-13 32° S, 71° W (Near coast of Central Chile. Several injured, minor property damage.) Mg. = 6 3/4-7 Pas.

DATE 1953	Phase	Time		Remarks
Sept. 5	iP	14-29-49.5	(d)	CGS: H=14-18-41 38° N, 23° E (Eastern Greece. Several casualties and moderate property damage.) Dist. (meas.) = 7,600 km.
Sept. 5	iP i eS	19-10-09 23 20-16	(c)	CGS: H=18-58-09 51° N, 157° E (Near south coast of Kamchatka) Mg. = 6 1/2 Pas. Dist. (meas.) = 8,600 km.
Sept. 6	iP	08-25-14	(c)	CGS: H=08-15-50 56° N, 162° W (Near Alaska Peninsula.) h = 200 km. ca.
Sept. 7	iP eS	04-10-27.5 20-19	(d)	CGS: H=03-58-56 41° N, 33° E (Northern Turkey. Felt (Mg. = 6 1/4 Pas.
Sept. 10	iP eS i e eSS G eLr	04-17-52.5 27-40 27-49 28-08 32-40 37-26 41-19	(c)	CGS: H=04-06-00 32° E, 35° N (Near west coast of Cyprus. Neavy casualties and extensive property damage) Mg. = 6 1/2 Pas. Dist. (meas.) = 8,450 km.
Sept. 10	iP	07-02-47.5	(d)	
Sept. 10	iP' iPP	18-52-06.5 55-35		BCIS: H=18-32.6 (Flores Sea)
Sept. 12	e(L)	19-19.3		
Sept. 14	eSS G	01-02-46 14.6		CGS: H=00-26-36 18 1/2° S, 178 1/2° E (Fiji Islands. Several killed and extensive property damage. Seismic sea wave). h = 60 km. ca. Mg. = 6 3/4 Pas. Dist. (meas.) = 13,000 km.
Sept. 14	eP	04-13-30		
Sept. 14	eP'	10-33-03		BCIS: H=10-14-00 (Aftershock of quake 00-26-36 Sept. 14.)



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Sept. 16	eLR	02-42.7	CGS: H=01-48-42 15° S, 174 1/2° W (Samoa Islands region) Mg. = 6 1/4 Pas., 6 i/2 Berk. Dist. (meas.) = 12,200 km.
Sept. 16	eP	21-53-58	CGS: H=21-41-37 47° N, 152 1/2° E (Kurile Islands) h = 60 km. ca.
Sept. 17	eP	09-22-05	CGS: H=09-15-50 (Zacatecas province, Mexico)
Sept. 17	eS eL	21-39-00 22-01.8	CGS: H=21-11-48 20 1/2° S, 174° W (Tonga Islands) h = 100 km. ca. Mg. = 6 3/4 - 7 Pas. Dist. (meas.) = 12,550 km.
Sept. 18	eL	23-23.3	BCIS: H=22-22-49 20 1/2° S, 174° W (Tonga Islands) h = 100 km. ca.
Sept. 19	iP' isP'	04-02-37 (d) 03-15	BCIS: H=03-43-15 6° S, 131° E (Banda Sea.) h = 100 km. ca.
Sept. 20	iP	09-25-17 (d)	CGS: H=09-14-22 51° N, 179° W (Andreanof Islands. Aleutian Islands) h = 100 km. ca.
Sept. 20	eL	19-49.3	BCIS: H=18-55-26 55 3/4° S, 1 1/2° E
Sept. 23	eP iP ipP isP iPP iS sS	02-26-34 36 53 27-06 29-37 36-28 56	CGS: H=02-14-36 50 1/2° N, 156° E (Northern Kurile Islands) h = 60 km. ca. Mg. = 7 Pas., 6 3/4 Berk. Dist. (meas.) = 8,650 km.
Sept. 23	iP i	09-23-13 48	
Sept. 25	eL	04-00.6	
Sept. 25	i i	13-04-29.5 50	

DATE 1953	Phase	Time	Remarks
Sept. 25	eL	14-37.3	CGS: H=13-41-08 28° N, 140° E (Bonin Islands)
Sept. 25	eP	20-59-53	CGS: H=20-48-20 54° N, 160° E (Off east coast of Kamchatka) h = 60 km. ca.
Sept. 26	iP i eL	01-14-26 (c) 40 45.0	CGS: H=01-02-30 50° N, 157 1/2° E (Near south coast of Kamchatka) h = 60 km. ca. Dist. (meas.) = 8,600 km.
Sept. 26	iP	14-51-13.5	CGS: H=14-39-05 46° N, 152 1/2° E (Kurile Islands) h = 60 km. ca.
Sept. 27	iP iS	06-11-47.5 (d) 16-55	CGS: H=06-05-27 14° N, 58° W (Windward Islands region)
Sept. 28	iP iS	06-00-39 (d) 08-55	CGS: H=05-50-21 22 1/2° S, 65° W (Bolivia Argentina Border) h = 250 km. ca.
Sept. 28	eL	23-31.5	
Sept. 29	iP' ipP' iPP i(sPP) iSS iSSS	01-55-19 (d) 56-34 57-29 58-41 02-14-37 19-25	CGS: H=01-36-45 36 1/2° S, 177° E (Off north coast of North Island, New Zealand) Mg. = 7 1/4 Pas. h = 300 km. ca. Dist. (meas.) = 14,250 km.
Sept. 30	i(PKP)	05-14-23 (a)	CGS: H=04-54-15 6° S, 100 1/2° E (Off southwest coast of Sumatra)
Sept. 30	iP	07-03-13 (c)	CGS: H=06-51-15 50 1/2° N, 156° E (Near south coast of Kamchatka) h = 60 km. ca.
Sept. 30	iP eS eL	23-11-15 16-55 19.2	CGS: H=23-04-08 22° N, 107 1/2° W (Off coast of Sinaboa, Mexico - Felt.Mozatlan) Mg. = 6 3/4-7 Pas. Dist. (meas.) = 3,950 km.

DATE 1953	Phase	Time	Remarks	18
Oct. 5	iP i(pP) ePP iS eSS eL	04-43-20 33 46-05 52-46 57-42 05-06.8	(c) CGS: H=04-31-40 53 1/2° N, 160 1/2° E (Near east coast of Kamchatka) Mg. = 6 3/4-7 Pas. Dist. (meas.) = 8,200 km.	
Oct. 5	iP i(pP)	14-22-42.5 23-09	(c) BCIS: H=14-12.3 m (Bolivia Argentine Border)	
Oct. 5	L	00-17.7	CGS: H=23-16-22 9° S, 152 1/2° E (Off east coast of Papua, New Guinea) Dist. (meas.) = 14,350 km.	
Oct. 6	iP	07-32-57.5	(c) CGS: H=07-21-10 51 1/2° N, 158° E (Near southeast coast of Kamchatka) h = 60 km. ca.	
Oct. 6	eL	17-00.5		
Oct. 6	eSS eL	22-16-23 30.5	CGS: H=21-38-16 3 1/2° S, 151° E (New Britain region) Mg. = 6 3/4-7 Pas. Dist. (meas.) = 13,950 km.	
Oct. 10	eP	21-40-08	CGS: H=21-29-14 38 1/2° N, 21° E (Near west coast of Greece) Dist. (meas.) = 7,400 km.	
Oct. 11	eP iS eSS eL	13-20-32. 30-35 35-40 40.1	CGS: H=13-08-34 50° N, 155 1/2° E (Northern Kurile Islands) h = 60 km. ca. Mg. = 6 3/4 Pas. Dist. (meas.) = 8,700 km.	
Oct. 11	eL	18-01.9	CGS: H=17-08-00 31 1/2° N, 83° E (western Tibet)	
Oct. 13	iP e iS e L L	09-00-52 01-26 06-43 09-12 10.5 12-42	(d) CGS: H=08-53-45 30° N, 113 1/2° W (Northern Gulf of California) Mg. = 6 1/4 Pas. Dist. (meas.) = 3,950 km.	
Oct. 13	iP'	14-11-17	BCIS: H=13-52-00 9° S, 127° E (Banda Sea) h = 100 km. ca.	



DATE 1953	Phase	Time		Remarks	19
Oct. 14	iP eS eT	00-56-52 01-00-50 17-10	(d)	CGS: H=00-51-42 (Off north coast of Dominican Republic)	
Oct. 14	iP iPP eS	15-00-05 03-32 10-25	(c)	CGS: H=14-47-17 43° N, 144 1/2° E (Near east coast of Hokkaido, Japan) h = 100 km. ca. Mg. = 6 3/4 Pas. Dist. (meas.) = 9,850 km.	
Oct. 16	eL	09-01.7		CGS: H=08-46-29 15° N, 45° W (Mid-Atlantic Ocean)	
Oct. 16	eL	09-33.2		CGS: H=09-16-48 16° N, 45 1/2° W (Mid-Atlantic Ocean)	
Oct. 16	eP ePP eS e eL	10-00-01 01-29 05-25 06-43.5 13-50		CGS: H=09-53-15 16° N, 96 1/2° W (Oaxaca, Mexico) Mg. = 6 Pas. Dist. (meas.) = 3,700 km.	
Oct. 17	eP	01-05-15		CGS: H=00-53-55 (Near south coast of Crete)	
Oct. 17	iP'	01-44-50	(c)	BCIS: H=01-25-06 9° S, 109° E (Java Sea)	
Oct. 17	iP eS eL	21-19-13 28-56 38.1	(c)	CGS: H=21-07-22 52° N, 159° E (Southeast coast of Kamtchatka)	
Oct. 17	eP	23-55-11		CGS: H=23-43-20 52° N, 159° E (Near east coast of Kamtchatka)	
Oct. 19	eP i eS	18-30-28 44 34-39		CGS: H=18-25-18 19 1/2° N, 65 1/2° W (North of Puerto Rico) h = 60 km. ca.	
Oct. 20	eP eS eT	10-35-18 39-20 55-55		CGS: H=10-30-10 Near north coast of Dominican Republic)	

DATE 1953	Phase	Time	Remarks
Oct. 21	iP eS eL	18-50-49 59-47 19-12.3	CGS: H=18-39-50 38° N, 20 1/2° E (Near west coast of Greece) Minor damage Mg. = 6 1/2 Pas. Dist. (meas.) = 7,400 km.
Oct. 24	eP' eL	23-38-47.5 00-21.0	CGS: H=23-19-40 35 1/2° S, 179 1/2° W (Off north coast of North Island, New Zealand) Mg. = 6 1/4 Bork. Dist. (meas.) = 13,900 km.
Oct. 27	iP i	03-53-42 56	CGS: H=03-40-45 43° N, 145° E (Near the east coast of Hokkaido, Japan) Mg. = 6.3 Roma Dist. (meas.) = 9,800 km.
Oct. 27	iP'	11-00-48.5 (d)	CGS: H=10-41-39 5° 5'S, 147° E (BCIS) (New Britain Island region)
Oct. 27	iP ipP iS	18-30-38 31-39 38-39	CGS: H=18-20-48 19° S, 66° W (Southern Bolivia) h = 300 km. ca. Mg. = 6 3/4 Pas. Dist. (meas.) = 6,850 km.
Oct. 27	iP	23-09-26.5 (d)	Ressenti: H=22-56-33 42.2° N, 143.1° E (South of Hokkaido, Japan) h = 70 km. ca.
Oct. 28	eP	08-53-56	CGS: H=08-47-06 16 1/2° N, 98° W (Near coast of Oaxaca, Mexico) Mg. = 5 3/4 Pas. Dist. (meas.) = 3,800 km.
Oct. 28	iP	12-21-45	CGS: H=12-09-36 49° N, 156° E (Kurile Islands) Dist. (meas.) = 8,800 km.
Oct. 29	iP	14-56-57.5	CGS: H=14-45-13 (52 3/4° N, 159° E (BCIS)) (Near east coast of Kam- chatka)
Oct. 30	i	05-04-39	

DATE 1953	Phase	Time	Remarks
Oct. 30	i	07-35-49	
Oct. 31	iP i	19-50-10 23	BCIS: (In the vicinity of east Kamchatka)
Nov. 1	iP	00-28-24	CGS: H=00-16-25 50° N, 159° E (Off southeast coast of Kamchatka)
Nov. 1	eP	21-07-00	CGS: H=20-55-32 (Kurile Islands region)
Nov. 2	iP	22-02-33.5 (d)	
Nov. 4	e e i i i e e i Lq	04-08-10 43 09-28 13-10 18-27 19-12 21-46 24-40 26-46 39.6	CGS: H=03-49-04 12 1/2° S, 166 1/2° E (New Hebrides Islands) Mg. = 7.3 Pas. Dist. (meas.) = 13,650 km.
Nov. 4	i	04-18-09	
Nov. 4	i	04-22-08	
Nov. 4	iP'	04-23-43	CGS: H=04-04-44 12 1/2° S, 166 1/2° E (New Hebrides Islands after- shock)
Nov. 4	i e i	13-06-46 10-11 15-50	CGS: H=12-27-41 12° S, 166 1/2° E (New Hebrides Islands) Mg. = 6 1/2 Pas. Dist. (meas.) 13,650 km.
Nov. 9	iP eS eL	17-37-25 47-01 54.2	CGS: H=17-25-42 52 1/2° N, 159° E (Near east coast of Kamchatka) h= 60 km. Mg. = 6 1/2 Pas. Dist. (meas.) = 8,350 km.



DATE 1953	Phase	Time	Remarks
Nov. 10	iP iPP iPP iS iSS eSS eL	23-52-15.5 36 55-18 00-02-00 30 06-52 12.0	CGS: H=23-40-20 50 1/2° N, 157° E (Near south coast of Kam- chatka) h = 60 km. Mg. = 7-7 1/2 Pas. Dist. (meas.) = 8,500 km.
Nov. 11	iP	00-12-09	
Nov. 13	eP	20-58-25	
Nov. 12	e	22-13-11	
Nov. 12	e	22-46-02	
Nov. 13	iP' iPP ePKS	16-36-39.5 39-43.5 40-18	CGS: H=16-17-02 3 1/2° N, 96° E (Near west coast of Sumatra) Dist. (meas.) = 14,900 km.
Nov. 13	eP	18-54-59	
Nov. 13	eSP eSS eL	19-46-16 53-32 20-16.2	CGS: H=19-15-37 13° S, 166° E (New Hebrides Islands) Mg. = 6 3/4 Pas. Dist. (meas.) = 13,700 km.
Nov. 14	iP eS eL	20-15-17 25-15 43.5	CGS: H=20-03-27 52° N, 160° E (Off southeast coast of Kam- chatka) Dist. (meas.) = 8,300 km.
Nov. 17	iP iPP iS	13-36-35.5 38-44 42-02	CGS: H=13-29-52 14° N, 92° W (Near coast of Guatamala) Mg. = 7 1/4-7 1/2 Pas. Dist. (meas.) 3,700 km.
Nov. 17	iP i	20-08-58.5 09-40	CGS: H=20-03-10 32° N, 39° W (North Atlantic Ocean)
Nov. 17	iP	22-55-17	CGS: H=22-43-30 (Near east coast of Kamchatka)
Nov. 17	eP	23-24-58.5	
Nov. 18	i i	17-01-16.5 29.5	

DATE 1953	Phase	Time	Remarks
Nov. 20	iP ipP isP	02-38-09 31 41	CGS: H=02-28-08 17 1/2° S, 70 1/2° W (Near coast of southern Peru) h = 100 km.
Nov. 20	eP' e	03-32-50 37-23	BCIS: H=03-12.9 55° S, 150° E
Nov. 21	eP	08-35-33	BCIS: H=08-27-36 17° N, 92 1/4° W
Nov. 24	iP e	09-14-50 15-05	CGS: H=09-08-18 14° N, 92° W (Near coast of Guatamala) h = 100 km.
Nov. 24	iP	10-12-39.5	CGS: H=09-59-50 (Off northwest coast of Hak- kaido, Japan)
Nov. 25	iP iPP	18-02-28 06-30	CGS: H=17-48-49 34 N, 141 E (Near south coast on Honshu, Japan - Seismic sea wave) Mg. = 8 1/4 Pas. Dist. (meas.) = 10-950 km.
Nov. 26	eL	00-53.2	
Nov. 26	eL	09-06.2	CGS: H=08-14-12 34° N, 141° E (Off south coast of Honshu, Japan) Dist. (meas.) = 10,850 km.
Nov. 27	eL	23-59.3	CGS: H=23-01-22 17 1/2° S, 176° E (Fiji Islands region)
Nov. 28	iP'	23-31-03.5	CGS: H=23-11-07 17° S, 93° E (Indian ocean, about 1000 miles southwest of Sumatra)
Dec. 1	iP	04-26-05.5	CGS: H=04-15-15 52° N, 179 1/2° E (Andreanof Islands, Aleutian Islands) h = 100 km. ca.
Dec. 1	iP iP' iPP iSKS iSKSP iSPP	05-22-39.5 26-45 27-05.5 33-32 36-31 37-25	CGS: H=05-08-30 29° N, 128 1/2° E (Ryuku Islands) h = 60 km/ Mg. 6 3/4-7 Pas. Dist. (meas.) = 11,800 km.



DATE 1953	Phase	Time	Remarks
Dec. 1	eL	20-56-10	CGS: H=20-35-35 BCIS Near coast of Nicaragua
Dec. 2	iPP iPKS iPS iSSS eL	04-46-21 47-28 56-28 05-06-14 28.0	CGS: H=04-24-50 3 1/2° S, 141 1/2° E (Northern New Guinea Mg. = 6 3/4 Pas.)
Dec. 3	eL	15-50.3	CGS: H=14-54-03 31° N, 85 1/2° (Central Tibet)
Dec. 4	eP ePP eS	15-02-26 03-53 08-35	CGS: H=14-54-46 49 1/2° N, 129° W (Off coast of Vancouver Island) Mg. = 6 1/2 Pas. Dist. (meas.) 4,490 km.
Dec. 6	iPP	17-46-31	CGS: H=17-23-54 0°, 123 1/2° E (Northern Celebes) h = 100 km.
Dec. 7	iP ipP epPP iS isS	02-16-06 32 19-06 24-39 25-23	CGS: H=02-05-37 22° S, 68 1/2° W (Northern Chile) h = 100 km. ca. Mg. = 7 1/4 Pas. Dist (meas.) = 7,200 km.
Dec. 7	eL	19-44-30	CGS: H=18-44-10 20 1/2° S, 174° W (Tonga Islands)
Dec. 10	e e i	19-46-54 47-07.5 17.5	
Dec. 12	eL	08-49.5	CGS: H=08-28-38 49° N, 139 1/2° W (Off coast of Vancouver Is- land, B.C.)
Dec. 12	iP iPP iS	17-39-54.4 41-46 46-33	CGS: H=17-31-22 3 1/2° S, 81° W (Near coast of Peru) Mg. = 7 3/4 Pas. Dist. (meas.) = 5,150 km.
Dec. 14	eL iL	09-05-06 08-50	Tacubaya: H=08-45-10 (Near south coast of Guata- mala)
Dec. 13	eP	07-08-00	CGS: H=06-56-00 50° N., 158.5° E South coast of Kamchatka



DATE 1953	Phase	Time	Remarks
Dec. 20	iP	00-34-09	CGS: H=00-21-19 39 1/2° N, 136 1/2° E (Sea of Japan) h = 300 km.
Dec. 20	iP ipP eS eL	09-31-22 41 40-50 55-31	CGS: H=09-19-40 (Central Chile. Slight damage at Illapel.)
Dec. 20	eL	22-16-30	CGS: H=21-20-14 34 1/2° N, 140 1/2° E (Near south coast of Honshu, Japan.)
Dec. 21	e e e	05-10-37.5 51.5 11-07	
Dec. 21	iP	17-49-18	CGS: H=17-36-12 42° N, 141 1/2° E (Near south coast of Hokkaido, Japan)
Dec. 22	iPKP' ipP' isP' i	08-09-11 34.5 51 17-41.5	CGS: H=07-49-34 6° S, 109 1/2° E (Java Sea)
Dec. 22	i	19-03-09.5	CGS: H=18-45-18 16° N, 119° E (Near west coast of Luzon, Phillipine Islands.)
Dec. 24	eL	03-20.1	CGS: H=02-33-39 51 1/2° N, 159 1/2° E (Near east coast of Kamchatka)
Dec. 24	iP ipP isP eL	23-32-57 33-11 23 00-05-07	CGS: H=23-21-09 52° N, 159 1/2° E (Near east coast of Kamchatka)
Dec. 25	iP ipP eS esSS eL	02-03-15 45 13-00 18-25 22.2	CGS: H=01-51-26 52° N, 159 1/2° E (Off east coast of Kamchatka) Mg. = 6 3/4 Pas. Dist. (meas.) = 8,400 km.
Dec. 28	eP	02-49-38	CGS: H=02-38-42 38° N, 20 1/2° E (Near west coast of Greece) Dist. (meas.) = 7,400 km.
Dec. 30	eL	09-16-21	