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METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

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Director General of Observatories

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Instruments and their Constants

STATION	INSTRUMENT	COMPT	PERIOD IN SECS	STATIC MAGNIFICATION	DAMPING RATIO	PAPER SPEED mm/min.
AGRA	Columbia Long Period Seismograph	E	To=15 Tg=100	-	-	15
		N	To=15 Tg=85	-	-	15
		Z	To=15 Tg=70	-	-	15
BOKARO	Milneshaw	N	12	250	20:1	16
	Milneshaw	E	12	250	20:1	16
	Wood Anderson	E	To=0.8	960	h=0.8	60
	Wood Anderson	N	To=0.8	1000	h=0.8	60
BOMBAY	Milneshaw	N	12	350	30:1	16
	Milneshaw	E	12	350	15:1	8
	Sprengnether	E	To=Tg=	-	-	30
CALCUTTA	Milneshaw	E	12	250	20:1	8
	Wood Anderson	N	2	870	Critical	30
	Omori Ewing	N	16	32	-	25.4
	Omori Ewing	E	21	30	-	25.4
DEHRA DUN	Wood Anderson	N	0.8	950	Critical	60
	Wood Anderson	E	0.8	850	Critical	60
	Milneshaw	N	12	250	20:1	8
	Milneshaw	E	12	250	20:1	8
HYDERABAD	Milneshaw	E	12	254	20:1	8
	Milneshaw	N	12	249	20:1	8
KODAIKANAL	Milneshaw	E	10	250	20:1	
MADRAS	Sprengnether	E	To=Tg=7.2	-	-	30
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	30
	Wood Anderson	E	4	1000	20:1	16
	Milneshaw	N	12	300	20:1	8
PORT BLAIR	Wood Anderson	E	0.8	1000	h=0.8	30
	Wood Anderson	N	2.0	1000	20:1	30
	Milneshaw	E	12.0	250	20:1	8
SHILLONG	Wood Anderson	N	0.8	1000	h=0.8	30
	Wood Anderson	E	0.8	1000	h=0.8	30
	Milneshaw	N	12	350	20:1	8
	Benioff	Z	To=1.0 Tg=0.18	-	-	60
	Sprengnether	E	To=Tg=6.6 To=Tg=6.5 from 29.1.58	-	Critical	30
	Wenner Accelerograph	-	-	-	-	-
TOCKLAI	Wood Anderson	E	0.8	1000	h=0.8	6
VIZIANAGRAM	Wood Anderson	E	0.8	1000	h=0.8	30
	Wood Anderson		2.0	1000	20:1	30

STATION	LATITUDE	LONGITUDE	HEIGHT a.s.l. (Metres)	LITHOLOGIC FOUNDATION
AGRA	27°10'N	78°02'E	169	Indo-gangetic Alluvium
BOKARO	23°50'N	85°48'E	-	Rock
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
CALCUTTA	22°32'N	88°22'E	7	Alluvium
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone(Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	-

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
January 1957						
01	Epc: Off East Coast of Kamchatka, 53½°N, 159°E. - H = 00h 56m 40s (U.S.C.G.S). -h=150 km - H = 00h 56m 40s (Moskva) -h=100 km					
	SHILLONG	Z	eP	01 06 09		Slight, distant
	CHATRA	Z	eP	01 06 23		Slight, distant
	POONA	Z	iP	01 07 56		Slight, distant
01	Epc: 54½°N, 164°W. Unimak Islands. - H = 03h 25m 05s (U.S.C.G.S)					
	SHILLONG	Z	iP	03 37 01		Slight, distant
	CHATRA	Z	iP	04 04 02	160	Feeble
		E	iS	04 22		
	SHILLONG	Z	eP	04 04 43	570	Slight
			PP	04 50		
			Pg	05 06		
			Lq	05 30		
			iS	05 43		
			SSS	06 00		
			Sg/M	06 07		
01	CHATRA	Z	iP	09 45 02	170	Feeble
			iS	45 23		
	SHILLONG	Z	eP	09 45 37		Feeble
01	SHILLONG	Z	eP	10 46 04		Very feeble
01	SHILLONG	Z	iP	16 21 51		Slight, local
01	DEHRA DUN	N,E	e	17 42 10		Tremor
01	SHILLONG	Z	eP	17 55 24		Feeble, local
01	SHILLONG	Z	eP	21 23 11		Slight
01	SHILLONG	Z	eP	22 02 58		Very feeble
01	SHILLONG	Z	iP	23 22 48		Feeble
02	Epc: Fox Islands, Aleutian Islands, 53°N, 168½°W. (Shillong). -H=00h 39m 22s (U.S.C.G.S) 53°N, 168°W. -H= 00h 39m 20s (Shillong). Magnitude: 6½-6¾(Pas), 6½(Moskva, Hurbanovo) 6.4(Takubaya), 6-6¼(Praha).					
	SHILLONG	Z,E	iP	00 51 11	8420	Moderate
		E	PcP	51 22		
			PP	54 03		
		N,E	iS	01 00 53		
			SKS	01 13		
			ScS	01 22		
			PS	01 31		
			PPS	01 50		
02	SHILLONG	N,E	SS	01 05 42		
			SSS	08 57		
02	CHATRA	Z	eP	00 51 21	8820	Slight
			iS	01 01 22		
	DEHRA DUN	N,E	eP	00 51 30	8850	Slight
		N	PP	54 29		
			iS	01 01 32		
			PS	02 32		
			Lq	13 11		
			M	23 43		
	BOKARO	N,E	eP	00 51 38	8960	Moderate, distant
			iS	01 01 45		Initial ground movement towards South and West.
			PS	02 28		
			PPS	02 57		
	HYDERABAD	E	eP	00 52 23	9470	Moderate
			PP	55 59		
			iS	01 02 53		
			SKS_2	03 05		
			PS	04 02		
			SS	08 41		
			SSS	11 47		
			$PKKS_1$	12 56		
			$PKKS_2$	14 43		
			Lq	15 41		
			SKKS2	16 47		
			Lr	20 53		
			M	26 26		Per.=15 secs $\perp\!\!\!\perp$ = 8

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
January 1957						
02 Contd.	MADRAS	E	eP	00 52 30	9730	Slight
			eS	01 03 11		
			PS	04 24		
			PPS	05 00		
			Lq?	17 00		
			M?	02 03 46		
	POONA	Z	iP	00 52 31	9560	Moderate
		N	iS	01 03 05		Initial ground movement towards South and West. Compression
		E,N	PS	03 50		
		N	PPS	04 23		
		E,N	SSS	12 08		
		E	Lq	16 02		
		N	Lr	19 17		
			M	27 01		Per.=17.3 secs $\perp\!\!\!\perp$ = 5.2
			Mn	36 36		
	BOMBAY	N,E	eP	00 52 35	10240	Moderate
			SKS	01 03 10		
			eS	03 36		
		E	PS	04 22		
			e	05 37		
		N	SS	09 36		
			M	35 40		Per.=18 secs $\perp\!\!\!\perp$ = 6
		E	M	39 34		Per.=17 secs $\perp\!\!\!\perp$ = 6
	COLOMBO	E	e	01 03 42		
	KODAIKANAL	E	e	01 03 41		Tremor
02	Epc: 52½°N, 168°W. Fox Islands, Aleutian Islands - H =02h 17m 35s (U.S.C.G.S) - H = 02h 17m 37s (Moskva) 49°N, 170°W. - H = 02h 17m 34s (Shillong) Magnitude = 6¾(Pas), 6.9(Uppsala), 6.6(Takubaya), 6.8 (Praha), 6¾-7(Hurbanovo).					
	SHILLONG	Z,E	iP	02 29 26	8470	Moderate
		E	PcP	29 39		
			SP	30 19		
			PP	32 40		
		N,E	iS	39 08		
			ScS	39 39		
			PS	39 51		
			PPS	40 10		
			SS	43 52		
			SSS	46 44		
	CHATRA	Z	i?	02 39 34		Slight
		E	e?			
	DEHRA DUN	N,E	eP	02 29 42	8800	Moderate
		N	PP	32 45		
			iS	39 42		
			PS	40 32		
			PPS	40 59		
			SS	45 11		
			SSS	48 30		
			Lq	51 27		
			Lr	54 44		
			M	03 01 28		
	BOKARO	N,E	iP	02 29 51	9000	Moderate
			iS	40 01		Initial ground movement towards South and West.
			PS	41 18		
			M	58 57		Per.=16.9 secs $\perp\!\!\!\perp$ =24
	NEW DELHI	N	iP	02 29 53	9110	Moderate.
			PP	32 57		Initial ground movement towards South.
			iS	40 07		
			PS	40 49		
			PPS	41 10		
			SS	45 34		
			Lr	55 29		
			M	03 02 35		
	HYDERABAD	E	iP	02 30 36	9370	Moderate
			PP	34 01		
			SKS_1	40 41		
			iS	41 02		
			ScS	41 16		
			PS	41 53		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
January 1957						
02 Contd.	HYDERABAD Contd.	E	SS	02 46 43		
			SSS	49 54		
			Lr	57 11		
			M	03 03 52		Per. = 18 secs ↓↓ = 57
	BOMBAY	N,E	eP	02 30 46	10190	Moderate
		N	e	31 24		
			PP	34 26		
		E	PP	34 33		
		N,E	SKS1	41 19		
			eS	41 45		
		N	ScS	42 04		
			PS	43 14		
			SS	48 14		
			SSS	51 37		
			M	03 13 52		Per. = 19 secs ↓↓ = 34
		E	M	17 28		Per. = 21 secs ↓↓ = 35
	POONA	Z,E,N	iP	02 30 46	10130	Moderate
		N	PP	34 21		Initial ground
		E,N	PPP	36 13		movement
			SKS1	41 13		towards North
		N	iS	41 43		and East.
		E,N	PS	42 51		Compression
			PPS	43 21		
		N	SS	47 36		
		E,N	SSS	51 13		
		N	Lq	55 43		
			Lr	59 51		
			M	03 08 28		Per. = 21 secs ↓↓ = 30.5
	KODAIKANAL	E	eP	02 31 20	10260	Moderate
			PP	35 07		Distant.
			SKS1	41 48		
			S	42 22		
			PS	43 41		
			PPS	44 11		
			SS	48 56		
			M	03 07 32		Per. = 20 secs ↓↓ = 23.8
	COLOMBO	E	P	02 31 22		Amp. = 1.2 mm
			SKS1	41 50		Amp. = 2.4 mm
02	Epc: 53°N, 168°W. Fox Islands, Aleutian Island - H = 03h 12m 52s (U.S.C.G.S) Magnitude = 7(Pas), 6.9(Tacubaya), 6.5(Uppsala) 6¼(Praha).					
	SHILLONG	Z	iP	03 24 39		Slight
	BOMBAY	N	eP	03 25 59	10250	Moderate
		N,E	eS	37 00		
		N	M	04 09 11		Per. = 10 secs ↓↓ = 16
		E	M	09 14		Per. = 15 secs ↓↓ = 6
	POONA	Z,E	eP	03 26 01	10210	
		E	eS	37 00		
02	Epc: 52½°N, 168½°W. Fox Islands, Aleutian Islands - H = 03h 30m 34s (U.S.C.G.S).					
	SHILLONG	Z	iP	03 42 23		Slight
02	Epc: 53°N, 168°W. Fox Islands, Aleutian Islands. - H = 03h 48m 44s (U.S.C.G.S) Magnitude = 7-7¼(Pas), 7(Uppsala), 6.8(Tacubaya), 6¾(Hurbanovo), 6½(Moskva, Praha).					
	SHILLONG	Z	iP	04 00 33		Slight, other phases not clear
	POONA	Z	eP	04 01 56		
	BOKARO	N,E	iP	04 01 02		Slight, other phases not clear
	BOMBAY	N,E	eP	04 02 00	10220	Moderate
			eS	13 00		
		N	M	42 36		Per. = 19 secs ↓↓ = 17
		E	M	42 48		Per. = 20 secs ↓↓ = 24
	HYDERABAD	E	M	04 05 32		Per. = 21 secs ↓↓ = 25
02 Contd.	Epc: 52½°N, 169°W. Aleutian Island - H = 04h 03m 26s (U.S.C.G.S). Magnitude = 6.7(Uppsala), 6 6½(Praha).					
	POONA	Z	eP	04 16 36		
	BOMBAY	N	eP	04 16 40	10070	Moderate
		N,E	eS	27 35		
	HYDERABAD	E	M	04 35 30		Per. = 22 secs ↓↓ = 32.
02	Epc: 52¼°N, 168°W. Fox Islands, Aleutian Islands. - H = 10h 49m 32s (U.S.C.G.S) - H = 10h 49m 31s (MOSKVA). Magnitude = 6½(Pas), 6.3(Uppsala), 6(Moskva)					
	SHILLONG	Z	eP	11 01 19		Slight
	DEHRA DUN	N,E	e	11 01 38		Feeble phases
			i	12 06		not clear
	POONA	Z	eP	11 02 38	9660	
		E	eS	13 16		
	BOMBAY	N,E	eP	11 02 42	10220	Slight
		E	eS	13 42		
		N	M	45 45		Per. 17 secs ↓↓ 2
		E	M	49 38		Per 18 secs ↓↓ 3
	HYDERABAD	E	e	11 12 53		
			M	43 23		Per. 18 secs ↓↓ 6
	COLOMBO	E	i	11 13 10		
			L	49 30		
			M	51 45		Amp. 0.7 mm
	MADRAS	E	e	11 13 18		Feeble
			e	44 44		
02	SHILLONG	Z	eP	12 42 13		Slight local
02	Epc: 53°N, 168°W. Fox Islands Aleutian Islands H = 12h 47m 07s (U.S.C.G.S).					
	SHILLONG	Z	iP	12 58 53		Slight
	POONA	Z	iP	13 00 13		
02	Epc: 52½°N, 168½°W. Fox Islands, Aleutian Islands - H = 14h 16m 32s (U.S.C.G.S).					
	SHILLONG	Z	iP	14 28 19		Slight
02	SHILLONG	Z	eP	17 23 06		Slight, local
02	SHILLONG	Z	eP	17 36 42		Feeble, local
02	SHILLONG	Z	eP	19 15 06		Slight
02	SHILLONG	Z	eP	21 15 25		Very feeble
02	SHILLONG	Z	eP	21 34 49		Slight
02	DEHRA DUN	N,E	e	22 13 07		Feeble Phases not clear
	SHILLONG	Z	eP	22 22 39		Feeble
03	Epc: 53°N, 168°W. Fox Islands, Aleutian Islands. - H = 00h 41m 02s (U.S.C.G.S) - H = 00h 41m 00s (Moskva). Magnitude = 6.4(Uppsala), 5½(Moskva).					
	SHILLONG	Z	iP	00 52 51		Slight
	DEHRA DUN	N,E	e	00 53 04		Feeble Phases not clear
	POONA	Z	e	00 55 10		Feeble Phases not clear

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January 1957						
	SHILLONG	Z	iP	01 06 44		Slight
03	NEW DELHI	N	iP	02 55 53	4190	Slight. Initial ground movement towards North.
			PP	57 51		
			iS	03 01 44		
			SS	04 40		
			SSS	05 10		
			i	05 23		
			Lr	06 10		
			M	10 02		
03	Epc 44°N. 130°E Southern Manchuria. H = 12h 48m 27s (U.S.C.G.S) 45°N. 130°E.(Moskva) h 600 km H = 12h 48m 30s (Moskva) 43½°N. 131½°E. H = 12h 48m 35s (JMA JAPAN). 42¼°N 130°E. h 610 km H = 12h 48m 34s (Shillong). Magnitude 7 1(Christ Church). 7(Pas. Uppsala). 6.8 (Wellington). 6¾(Berkley) 6.7(Tacubaya).					
	SHILLONG	Z E	iP	12 54 44	3960	Moderate
		E	pP	56 23		
			SP	57 27		
			iS	58 40		
			sS	13 02 40		
	CHATRA	E	iP	12 55 07	4220	Slight
			iS	13 00 19		
	DEHRA DUN	N E	sP	12 55 42	4780	Moderate
		N	pP	57 36		
			iS	13 01 25		
			e	03 32		
			Lq	04 15		
			e	04 30		
			Lr	05 51		
			M	08 55		
	ECKARO	N E	iP	12 55 29	4600	Moderate. Initial ground movement towards North and East.
			pP	57 09		
			iS	13 01 02		
			sS	04 01		
	HYDERABAD	E	iP	12 56 35	5570	Moderate. Initial ground movement towards East
			pP	58 20		
			ePP	59 07		
			e	13 02 00		
			iS	03 05		
			e	03 17		
			sPS	05 16		
			e	06 12		
			Lq	06 54		
			Lr	09 06		
			M	11 35		Per. 16 secs A 15
	MADRAS	E	iP	12 56 53	5900	Moderate Initial movement towards East
			e	57 18		
			pP	58 40		
			iPP	59 49		
			e	13 01 45		
			iS	03 39		
			e	04 00		
			e	04 30		
			ePS	05 36		
			e	06 19		
			e	06 44		
			sS	06 55		
			e	06 20		
			M	13 00		
	POONA	Z E N	iP	12 56 58	5950	Moderate. Initial ground movement towards North and East
		N	pP	58 43		
			PcP	59 18		
		E N	iS	13 03 46		
		N	e	04 05		
			e	06 52		
			ScS	07 52		
			Lr	09 31		
			M	13 52		
	BOMBAY	N E	iP	12 57 00	6000	Moderate
			pP	58 47		
			PP	59 51		
			iS	13 03 52		
		N	ePS	05 42		
		N E	e	06 36		
			ScS	07 16		
			e	08 29		
			SSS	10 53		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
January 1957						
03 Contd.	COLOMBO	E	iP	12 57 22		
			iS	13 04 38		
			L	14 22		
			M	17 05		Amp. 1 0 mm
	KODAIKANAL	E	iP	12 57 23	6330	Moderate. Distant Initial ground movement towards East
			pP	59 20		
			PP	13 00 18		
			eS	04 32		
			ScS	08 02		
			e	09 18		
			Lr	11 33		
			M	15 39		Per. 12 secs A 6.3
03	Epc 44°N. 130°E. Southern Manchuria. H = 13h 43m 29s (U.S.C.G.S). h 600 km					
	SHILLONG	Z	iP	13 49 47		Slight
	POONA	Z	iP	13 51 58		Tremor
04	CHATRA	Z	iP	03 48 29	660	Feeble
			iS	49 38		
	SHILLONG	Z	eP	03 48 53		Slight
04	SHILLONG	Z	iP	16 02 33		Slight
04	SHILLONG	Z	eP	17 01 11		Slight
04	SHILLONG	Z	iP	18 01 30		Slight
05	Epc 44½°N. 149½°E. Kouriles Islands. H = 01h 12m 16s (U.S.C.G.S)					
	SHILLONG	Z	iP	01 21 09		Slight
05	SHILLONG	Z	eP	05 22 27		Slight
05	SHILLONG	Z	eP	06 20 53		Slight
05	SHILLONG	Z	eP	10 16 09		Very feeble
05	SHILLONG	Z	iP	11 53 41		Very feeble
05	Epc Andreanof Islands, Aleutian Islands H = 12h 36m 14s (U.S.C.G.S)					
	SHILLONG	Z	iP	12 47 29		Slight
05	SHILLONG	Z	iP	15 41 [illegible]		Slight
05	SHILLONG	Z	iP	16 29 05		Slight
05	SHILLONG	Z	iP	16 41 10		Very feeble.
05	Epc 54°N. 165°W. South of Unimak Islands, Aleutian Islands. H = 17h 15m 15s (U.S.C.G.S)					
	SHILLONG	Z	iP	17 27 08		Feeble
05	SHILLONG	Z	eP	22 00 47		Feeble
06	SHILLONG	Z	iP	01 26 59		Slight
	CHATRA	Z	iP	01 27 52	770	Feeble
			iS	29 12		
06	Epc 26°N, 126°W. Ryukyu Islands H = 01h 36m 58s (U.S.C.G.S)					
	SHILLONG	Z	eP	01 54 51		Slight
0	Epc 42°N. 142°E. Hokkaido, Japan. H = 05h 15m 06s (U.S.C.G.S). h 100 km H = 05h 15m 03s h 100 km (JMA, Japan).					
	SHILLONG	Z	eP	05 23 09		Slight
06	SHILLONG	Z	iP	09 53 51		Slight local
06	Epc Philippines. H 20h 23m 37s (U.S.C.G.S).					
	SHILLONG	Z	iP	20 30 46		Slight
	CHATRA	Z	i	20 31 23		Slight, distant.

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DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
January 1957						
06	SHILLONG	Z	iP	21 09 33		Very feeble
07	SHILLONG	Z	eP	02 07 11		Slight
07	CHATRA	Z	iP	05 34 03	140	Feeble
			iS	34 21		
07	CHATRA	Z	iP	08 11 18	250	Feeble
			iS	11 48		
07	SHILLONG	Z	iP	16 10 49		Slight, local
07	Epc: 8½°N. 126°E. Phillipines. h= 250 Km H = 16h 45m 02s (U.S.C.G.S).					
	SHILLONG	Z	iP	16 51 47		Slight
	POONA	Z	eP	16 53 49		Feeble shock
			i	54 13		Phases not clear
07	SHILLONG	Z	iP	18 20 32		Very feeble. local
07	SHILLONG	Z	iP	18 55 38		Slight
07	SHILLONG	Z	iP	19 30 43		Slight
07	SHILLONG	Z	iP	23 22 00		Slight
08	Epc: About 150 miles off West Coast of Sumatra. H 01h 20m 15s (U.S.C.G.S).					
	MADRAS	E	e	01 25 33		Slight
	SHILLONG	Z E	iP	01 26 11		Slight
		N, E	i	33 00		
	POONA	Z	eP	01 26 44		Distant shock Phases not clear
	BOMBAY	E	eP	01 27 01	3570	Slight
			PP	28 06		
			e	32 05		
		N E	eS	32 14		
		E	SS	34 20		
			SSS	34 47		
	DEHRA DUN	N E	e	01 28 48		Feeble. Phases not clear.
	HYDERABAD	E	e	01 31 11		Moderate
			M	41 29		Per 12 secs μ 3
08	SHILLONG	Z	iP	03 41 57		Slight Compression
08	SHILLONG	Z	eP	03 44 03		Slight
08	Epc: 2°S. 99°E. Off West Coast of Sumatra H 05h 22m 26s (U.S.C.G.S) H 05h 22m 25s (Moskva).					
	MADRAS	E	eP	05 27 41	2710	Slight
			eS	31 59		
			SSS	33 09		
			Lr	33 41		
			M?	35 27		
			i	43 06		
	SHILLONG	Z E	iP	05 28 21	3110	Slight
		E	iS	33 05		
	CHATRA	Z	iP	05 28 45	3430	Slight
		E	iS	33 49		
	POONA	Z	eP	05 28 54		Slight
		E	e	36 18		
			e	40 15		
	BOMBAY	E	eP	05 29 09	3550	Slight
			e	34 11		
		N E	eS	34 20		
		E	SSS	36 28		
			e	37 09		
			e	37 36		
			Lr	38 00		
			M	41 34		Per 16 secs μ 4
		N	M	42 34		Per 17 secs μ 4

DATE	STATION	COMPT	PHASE	G. M. T. h m. s	Δ km	REMARKS
January 1957						
08 Contd	DEHRA DUN	N E	e	05 29 44		Feeble. Phases not clear
	HYDERABAD	E	eS	05 33 02		Slight
			M	43 32		Per 12 secs μ 4
08	Epc: 52½°N. 168°W. Fox Islands. Aleutian Islands. H 17h 29m 36s (U.S.C.G.S).					
	SHILLONG	Z	iP	17 41 25		Slight Compression
08	SHILLONG	Z	eP	18 16 04		Slight Compression
08	Epc: Fox Islands, Aleutian Islands. H 20h 14m 46s (U.S.C.G.S).					
	SHILLONG	Z	eP	20 26 31		Slight Compression
08	CHATRA	Z	iPg	21 34 16	60	Feeble
			iSg	34 24		
08	CHATRA	Z	iPg	22 06 40	120	Feeble
			iSg	06 56		
08	SHILLONG	Z	eP	22 23 51		Slight
08	SHILLONG	Z	eP	22 26 49		Slight
09	CHATRA	Z	iP	00 22 45	270	Feeble
			iS	23 16		
09	Epc: 54°N. 169°E. Komandosskie Islands. H 01h 38m 50s (U.S.C.G.S)					
	SHILLONG	Z	eP	01 49 09		Slight
09	Epc: New Britain Region. H 06h 15m 37s (U.S.C.G.S)					
	SHILLONG	Z	eP	06 26 04		Slight
	POONA	Z	iP	06 27 31		Tremor
09	SHILLONG	Z	eP	06 52 22		Slight
09	SHILLONG	Z	eP	07 59 49		
09	Epc: 53°N. 167°W. Fox Islands H 07h 52m 56s (U.S.C.G.S) H 07h 53m 00s (Moskva) Magnitude 6½(Pas) 6¾(Uppsala)					
	SHILLONG	Z E	eP	08 04 46	8470	Slight
		E N	eS	14 30		
	DEHRA DUN	N E	eP	08 05 05	9420	Feeble Phases
			eS	15 33		not clear
	POONA	Z	eP	08 06 05		Distant shock Phases not clear
	BOMBAY	N E	eP	08 06 08	10390	Slight
			eS	17 15		
		N	M	52 18		Per 19 secs μ 3
		E	M	53 19		Per 17 secs μ 3
	HYDERABAD	E	e	08 16 32		
			M	46 46		Per 18 secs μ 8
	MADRAS	E	e	08 16 51		Feeble
			e	46 59		
09	SHILLONG	Z	iP	08 43 21		Slight
09	SHILLONG	Z	eP	08 45 02		Slight
	KODAIKANAL	E	e	08 49 40		Tremor
	COLOMBO	E	L	08 55 50		
			M	58 00		Amp: 0.8 mm

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				h m s	km	
09	SHILLONG	Z	iP	10 24 19		Slight Compression
09	Epc 34½°N, 141°E Off the East Coast of Hondo, Japan. H 10h 27m 45s (U.S.C.G.S) 35°N, 141°E H 10h 27m 47s (JMA, Japan)					
	SHILLONG	Z	eP	10 35 47		Slight
	POONA	Z	iP	10 38 02		Tremor
09	SHILLONG	Z	eP	1 4 [illegible]		Slight
	CHATRA	Z	iP	12 46 29	850	Feeble
			iS	47 57		
09	SHILLONG	Z	eP	19 56 18		Slight
09	SHILLONG	Z	iP	22 14 24		Slight Compression
	CHATRA	Z	e	22 14 52		Feeble, near.
10	[illegible]	Z	iP	00 20 02		Slight Rarefaction
10	[illegible] 5°S 95½°E. Northern Sumatra M 04h 14m 44s (U.S.C.G.S) and B.C.I.S) 5°N, 96°E H 04h 14m 35s (Shillong).					
	MADRAS	E	eP	04 18 35	1880	Slight
			PPP	18 58		
			eS	21 43		
			SS	1 58		
			SSS	22 20		
			Lr	22 48		
			M	25 00		
	SHILLONG	Z E	eP	04 19 16	2350	Slight
		N E	iS	23 07		
	HYDERABAD	E	iP	04 19 21	2240	Moderate Initial ground movement towards West
			iS	23 03		
			SSS	23 45		
			Lr	24 29		
			M	25 57		Per. 15 secs
						A 8
	BOKARO	N E	iP	04 19 22	2230	Slight
			PP	19 37		
			PPP	19 52		
			iS	23 03		
			Lq	23 14		
			M	25 50		Per. 20 6 secs
						A 11
	CHATRA	Z	iP	04 19 42	2600	Slight
		E	iS	23 52		
	POONA	E Z	iP	04 20 07	2750	Moderate Rarefaction
		E	PPP	21 06		
		E N	eS	24 28		
			Lq	25 13		
			SSS	25 47		
		N	PcS	27 02		
			ScS	31 06		
	BBOMBAY	N E	eP	04 20 19	2880	Slight
		E	PPP	21 30		
		N	e	24 43		
		E	eS	24 47		
		N	eS	24 54		
		E	Lq	25 44		
			SSS	26 20		
		N	M	34 31		Per 15 secs
						A 5
		E	M	35 52		Per 13 secs
						A 4
10	NEW DELHI	N	PP	04 21 23	3150	Slight
			PcP	23 29		
			eS	25 18		
			Lq	26 28		
			Lr	28 09		
			M	31 00		
10	SHILLONG	Z	eP	06 21 18		Slight

				h m s	km	
10	POONA	Z	iP	14 31 00		Tremor
			i	37 14		
10	SHILLONG	Z	eP	15 51 46		Slight
11	Epc 27°N, 127½°E Ryukyu Islands H 23h 31m 50s (U.S.C.G.S)					
	SHILLONG	Z	eP	23 38 16		Slight
			i	41 08		
	POONA	Z	eP	23 39 44		Tremor
11	SHILLONG	Z	iP	23 41 08		Slight
12	DEHRA DUN	N E	e	17 48 28		Tremor
12	SHILLONG	Z	eP	17 49 27		Slight
12	SHILLONG	Z	eP	18 24 50		Slight
13	SHILLONG	Z	eP	05 47 35		Slight
13	SHILLONG	Z	eP	07 32 [illegible]		Slight Rarefaction
13	SHILLONG	Z	iP	10 35 10		
13	Epc 38½°N 71°E Chakhik USSR H 11h 38m 14s (U.S.C.G.S and B.C.I.S) 38½°N 70½°E H 11h 38m 16s (Moskva) 38¾°N 70¼°E H 11h 38m 18s (Quetta) 40°N 71.3°E H 11h 38m 05s (Shillong) Magnitude 5 Moskva)					
	DEHRA DUN	N E	eP	11 40 47		
		N	iS	42 53		
		SSS	Lr	43 18		
			M	44 18		
	NEW DELHI	N	eP	11 41 02	1290	Slight
			iS	43 13		
			iSSS	44 09		
			e	44 51		
			i	46 41		
	CHATRA	Z	eP	11 42 25		Slight
			i	46 52		
	BOMBAY	N E	eP	11 42 53	2265	Slight
		E	eS	46 37		
			M	49 06		Per 6 secs
						A 1
		N	M	51 03		Per 7 secs
						A 1
	POONA	Z	iP	11 42 55	2400	Moderate
		E N	eS	46 53		
		E	SS	47 33		
			Lq	48 08		
		E N	M	49 52		
	BOKARO	N E	eP	11 42 57	2280	Slight
			PP	43 15		
			eS	46 42		
			SS	46 58		
			Lr	47 59		
	SHILLONG	Z E	iP	11 43 12	2520	Slight
		N E	eS	47 16		
	HYDERABAD	E	eP	11 43 18	2450	Slight
			eS	47 18		
			M	50 15		Per 10 secs
						A 3
	MADRAS	E	eS	11 49 02		Feeble
			e	50 41		
	KODAIKANAL	E	e	11 53 04		Tremor
13	Epc 16½°N 146½°E. Marianne Islands H 12h 12m 37s (U.S.C.G.S)					
	SHILLONG	Z	eP	12 21 43		Slight
13	Epc 32½°N, 142½°E. Off the East Coast of Honshu Japan. H 12h 20m 00s (U.S.C.G.S)					
	SHILLONG	Z	eP	12 28 [illegible]		Slight

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				h.	m.	s.	km	
13	SHILLONG	Z	eP	12	40	1[illegible]		Slight
	POONA	Z	iP	12	50	25		Tremor
			i		50	30		
13	CHATRA	Z	iP	15	02	17	190	Feeble
			iS		02	40		
13	SHILLONG	Z	eP	19	31	43		Slight
14	SHILLONG	Z	eP	00	24	53		Slight
14	Epc. 11°S. 163°E. Solomon Islands - H 00h 28m 38s (U.S.C.G.S) 11°S, 163°E. H 00h 28m 40s (B.C.I.S)							
	SHILLONG	Z	eP	00	40	41		Slight
14	SHILLONG	Z	eP	04	46	26		Slight
14	POONA	Z	eP	05	55	35		Tremor
			i		55	49		
14	DEHRA DUN	N E	e	13	46	29		Tremor
14	SHILLONG	Z	eP	13	47	47		Slight
14	Epc. 22°S 179°W. Fiji Islands Region - H 14h 20m 17s (U.S.C.G.S) h 600 km.							
	SHILLONG	Z	iP	14	32	57		Slight
14	CHAERA	Z	eP	17	57	08	550	Slight
			iS		58	06		
15	Epc. 2°S, 76½°W. Equator. h 100 km H 04h 09m 15s (U.S.C.G.S).							
	SHILLONG	Z	eP	04	29	03		Slight
15	SHILLONG	Z	iP	05	53	12		Slight.local
15	SHILLONG	Z E	eP	20	14	53		Slight
15	Epc. 6½°N. 127°E. About 100 miles Off East Coast of Mindanao, Phillipine Islands. h 100 km - H 20h 21m 45s (U.S.C.G.S)							
	SHILLONG	Z E	iP	20	29	05		Slight
15	SHILLONG	Z	iP	20	37	43		Slight.local
15	SHILLONG	Z	iP	20	41	42		Slight.local
15	CHATRA	Z	eP	21	42	24	670	Feeble
			iS		43	34		
16	Epc. 10°S, 67¾°E. Chagos Island Region - H 11h 43m 30s (U.S.C.G.S) H 11h 43m 27s (B.C.I.S).							
	COLOMBO	E	P	11	48	20	2240	
			S		52	02		
			L		54	45		
			M		56	35		Amp. 1.4 mm
	KODAIKANAL	E	iP	11	48	33	2590	Initial ground
			PP		49	06		movement towards
			PPP		49	21		East. Moderate
			S		52	42		
			Lq		53	03		
			SSS		53	54		
			Lr		54	35		
			M		56	30		Per 9 secs
								L 14.3
	MADRAS	E	eP	11	49	04	2860	Slight
			PP		49	40		
			eS		53	31		
			Lq		54	17		
			Lr		55	30		
			M		57	11		
	POONA	Z	iP	11	49	28	3120	Moderate
		E	PP		50	24		
		N E	eS		54	12		
		E	Lq		55	51		
			SSS		56	12		
			M		59	32		

				h.	m	s	km	
16	BOMBAY	N	eP	11	49	30	3230	Slight
Contd		E	eP		49	38		
		N E	PP		50	23		
		N	eS		54	22		
		F	eS		54	27		
			Lq		55	13		
			Lr		56	23		
			M	12	00	26		Per. 11 secs
								A 3
		N	M		05	02		Per. 9 secs
								A 3
	HYDERABAD	E	PP	11	50	16	3200	Moderate
			eS		54	23		
			Lq		54	57		
			SS		55	23		
			Lr		56	21		
			M		58	23		Per. 10 secs
								A 14
	NEW DELHI	N	eP	11	50	56	4250	Slight
			PP		52	27		
			eS		56	51		
			SSS	12	00	03		
	CHATRA	Z	i	11	51	15		Slight.distant
	SHILLONG	Z E	iP	11	51	25	4670	Slight
			iS		57	45		
	DEHRA DUN	N E	e	11	51	50		Slight.Phases
			iS		57	29		not clear.
16	SHILLONG	Z	eP	14	07	17		Feeble
16	SHILLONG	Z	eP	18	46	53		Very feeble. Distant
16	SHILLONG	Z	eP	19	31	07		Very feeble Distant
17	SHILLONG	Z	eP	00	44	54		Slight
17	SHILLONG	Z	iP	02	10	15		Slight
17	SHILLONG	Z	iP	04	29	08		Slight.local
	CHATRA	Z	iP	04	29	47	450	Slight
			iS		30	40		
17	Epc. 7½°S. 129°E h 100 km			H 07h 23m 43s (U.S.C.C.S)				
	SHILLONG	Z	iP	07	32	26		Slight
17	SHILLONG	Z	eP	10	15	03		Very feeble, distant.
17	SHILLONG	Z	eP	10	58	09		Slight
17	SHILLONG	Z	eP	14	22	49		Feeble
17	CHATRA	Z	iPg	15	05	26	100	Slight
			iSg		05	40		
17	Epc. 21°N. 121°E. Batan Island Region H 16h 21m 08s (U.S.C.G.S)							
	SHILLONG	Z	eP	16	26	55		Very feeble
	DEHRA DUN	N E	e	19	02	48		Feeble.Phases
			i		09	52		not clear
	CHATRA	Z	iP	19	10	04	1880	Slight
			iS		13	12		
17	SHILLONG	Z	eP	19	10	47		Feeble
17	Epc. 33°N. 137½°E. South of Honshu. Japan H 22h 26m 10s (U.S.C.G.S) h 350 km 33°N. 137.8°E. (JMA Japan) h 360 km H 22h 26m 49s (B.C.I.S).							
	SHILLONG	Z E	iP	22	33	53	4330	Slight
			iS		39	06		
		E	e		39	36		

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DATE	STATION	COMPT	PHASE	G M T h m s	Δ km	REMARKS
January 1957						
17 Contd.	CHATRA	Z	iP	22 34 23		Slight
			e	36 03		
	DEHRA DUN	N,E	e	22 35 12		Feeble Phases not clear
	POONA	Z	iP	22 36 10		Feeble shock Phases not clear
	BOMBAY	N,E	eP	22 36 15	6440	Slight and somewhat deep
		E	PP	38 25		
		N,E	eS	43 53		
			PPS	45 27		
18	SHILLONG	Z	iP	03 45 33		Very feeble
18	SHILLONG	Z	eP	05 43 11		Feeble, local
18	SHILLONG	Z	eP	11 56 01		Very feeble
18	SHILLONG	Z	eP	11 56 33		Feeble
18	CHATRA	Z	iP	15 42 43	180	Feeble
			iS	43 05		
18	CHATRA	Z	iP	18 01 47	150	Feeble
			iS	02 06		
19	Epc: 21½°S, 179°W. Fiji Islands Region - H = 05h 16m 37s (U.S.C.G.S) - h = 650 km Magnitude = 6½(Pas), 6½(Berk)					
	SHILLONG	Z	eP	05 29 13		Slight
19	SHILLONG	Z	eP	08 07 12		Slight, local
19	SHILLONG	Z	eP	11 37 59		Slight, local
	CHATRA	Z	iPg	11 54 32	80	Feeble
			iSg	54 43		
19	SHILLONG	Z,E	iP	14 19 15		Slight
		E	i	20 44		
			i	21 21		
	DEHRA DUN	N,E	e	14 29 27		Feeble Phases
			i	29 47		not clear
19	CHATRA	Z	iPg	16 32 55	100	Feeble
			iSg	33 08		
20	POONA	Z	eP?	11 08 55		Tremor
20	Epc: 29°N, 129½°E. Northern Ryukyu Islands - H = 13h 52m 40s (U.S.C.G.S & B.C.I.S). 28°N, 130½°E. - H = 13h 52m 33s (JMA, Japan)					
	SHILLONG	Z	eP	13 59 24		Slight
	CHATRA	Z	ePPP	13 59 59		Slight, distant
20	Epc: 36½°N, 71½°E. Hindukush - h = 150 km - H = 18h 12m 47s (U.S.C.G.S & B.C.I.S) 37°N, 71°E. - H = 18h 12m 48s (Moskva) 36.8°N, 71.5°E. - H = 18h 12m 40s (Shillong) - h = 200 km					
	DEHRA DUN	N,E	eP	18 14 48	910	Slight
		N	PP	14 57		
			Lq	16 10		
			iS	16 19		
			SS/Lr	16 30		
			SSS	16 40		
			Sg/M	17 10		
	NEW DELHI.	N	eP	18 15 02	1120	Slight
			P*	15 32		
			Pg	16 06		
			Lq	16 43		
			iS	16 54		
			SS	17 08		
			SSS	17 20		
			Sg	17 55		
	CHATRA	E	eP	18 16 37	1990	Slight
			iS	19 49		

DATE	STATION	COMPT	PHASE	G M T h m s	Δ km	REMARKS
January 1957						
20 Contd	BOMBAY	N	eP	18 16 51	2000	Slight and somewhat deep
		E	ePP	17 03		
		N,E	PPP	17 21		
			eS	20 10		
		N	SS	20 23		
			SSS	20 44		
		E	e	21 31		
	POONA	Z	eP	18 16 53	2120	Moderate
		N,E	eS	20 22		
			SS	20 46		
			Lr	21 12		
			M	22 31		
			e	23 36		
	SHILLONG	Z,E	iP	18 17 23	2390	Slight Depth 200 km
		E	PP	17 53		
			PPP	18 09		
			iS	21 09		
			Lq	21 43		
			eS	21 51		
			SS	21 53		
			SSS	22 10		
			i(P)	22 20		
			Lr	22 40		
			M	24 14		
	HYDERABAD	E	ePP	18 17 43	2280	Slight
			eS	20 58		
			e	21 12		
			SS	21 29		
			Lr	21 43		
			M	23 05		Per 5 secs μ 4
	MADRAS	E	eS	18 22 29		Slight
			i	25 53		
	KODAIKANAL	E	eSS	18 24 40		Tremor
21	SHILLONG	Z	eP	04 35 17		Slight
21	SHILLONG	Z	iP	05 22 33		Slight
21	DEHRA DUN	N,E	e	07 31 19		Tremor
21	SHILLONG	Z	eP	14 39 30		Slight
21	SHILLONG	Z	eP	19 49 19		Very feeble
22	POONA	Z	iP	11 27 23		Tremor
			i	27 30		
22	Epc: 4½°S 28½°E Belgiancongo H 11h 18m 23s (U S C G S) 4½°S 28½°E H 11h 18m 27s (B C I S) 4½°S, 29½°E (Tonganyaka) Magnitude 6.3(Luizo) 6.1(Aslrida)					
	BOMBAY	E	eP	11 27 28	5410	Slight
		N	e	34 26		
			eS	34 30		
			M	46 33		Per 19 secs
		E	M	46		μ 2
	SHILLONG	Z	iP	11 29 29		Slight
	COLOMBO	E	L	11 45 22		
			M	46 57		Amp 0.2 mm
	MADRAS	E	e	11 46 52		Feeble
	HYDERABAD	E	M	11 51 04		Per 15 secs μ 3
22	Epc: 11°S 166½°E H 12h 31m 54s (U S C G S)					
	SHILLONG	Z	iP	12 44 15		Slight Compressio
	CHATRA	Z	iP	12 44 36		Slight, distant
22	CHATRA	Z	iPg	21 31 28	70	Feeble
			iSg	31 37		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
January 1957								
22	MADRAS	E	e	23	39	51		Feeble
	SHILLONG	Z	e	23	40	52		Slight
			i		40	57		
			i		43	42		
	POONA	Z	eP	23	42	00		Feeble shock.
			i		45	25		Phases not clear
23	SHILLONG	Z	iP	01	21	25	6750	Slight
			iS		29	42		
23	SHILLONG	Z	iP	02	13	38		Slight
23	DEHRA DUN	N,E	e	09	16	50		Feeble,phases not clear
			e		18	15		
23	CHATRA	Z	e	09	18	38		Slight,distant
23	DEHRA DUN	N,E	e	11	11	42		Feeble,phases not clear
23	Epc: 37°N, 22½°E. Near West Coast of Greece - H = 17h 26m 51s (U.S.C.G.S) Magnitude: 5½ (Athenes), 5.0 (Praha).							
	POONA	Z	iP	17	35	43		Tremor
	CHATRA	Z	i	17	36	30		Slight,distant
23	Epc: 42½°N, 42½°E. Georgia Fore shock - H = 22h 04m 39s (U.S.C.G.S) - H = 22h 04m 42s (Moskva)							
	SHILLONG	Z	iP	22	12	49		Slight
24	CHATRA	Z	iP	01	21	52	640	Slight
			iS		22	59		
24	Epc: 6°S, 147°E. Near East Coast of New Guinea. - H = 01h 11m 11s. (U.S.C.G.S) - h = 100 km.							
	MADRAS	E	eP	01	22	07		Feeble
	DEHRA DUN	N,E	eP	01	22	44	8440	Feeble,phases not clear
			iS		32	15		
			i		33	00		
	POONA	Z	iP	01	22	52	8310	Slight
		E	e		31	46		
			eS		32	16		
	BOMBAY	E	eP	01	22	58	8680	Deep focus
			e		25	32		
			eS		32	40		
24	SHILLONG	Z	iPg	04	42	49	50	Slight
			iSg		42	59		
	DEHRA DUN	N,E	e	04	47	26		Tremor
24	Epc: 12½°S, 78°W. Near Coast of Peru. - H = 07h 16m 29s (U.S.C.G.S) Magnitude : 6½ (Lwiro), 6.3 (Tacubaya), 6¼ (Pas , Berk), 6-6¼(Astrida).							
	POONA	Z	iPKP	07	36	22		Feeble shock
			i		36	29		Phases not clear
	BOMBAY	N,E	ePKP	07	36	28		Slight and distant
			ePKS		40	06		
			e		08	45		
	SHILLONG	Z	iPKP	07	37	28		Slight
24	CHATRA	Z	iP	08	39	49	140	Slight
			iS		40	07		
24	COLOMBO	E	L	08	44	00		Amp=0.4 mm
	HYDERABAD	E	M	08	48	51		Per.=21 secs μ = 5
24	SHILLONG	Z	iP	12	48	45	510	Slight Mag : 5.1
			Lq		49	49		
			eS		49	59		
			Lr		59	09		
	CHATRA	Z	iP	12	49	12	1000	Slight
			iS		51	20		
	POONA	Z	e	12	51	57		Tremor

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
January 1957								
24 Contd.	BOMBAY	N,E	e	12	56	33		
			e		59	40		
	SHILLONG	Z,E	iP	12	58	52	110	Slight
		E	iS		59	05		
	CHATRA	Z	eP	12	59	37	600	Slight
			iS	13	00	40		
24	Epc: 25½°N, 109½°W. Southern Gulf of California - H = 14h 59m 37s (U.S.C.G.S)							
	HYDERABAD	E	e	15	18	59		
			M	16	02	23		Per.=24 secs μ = 6
	MADRAS	E	eP	15	24	05	2140	Slight
			eS		27	37		
			SS		28	02		
			M		30	17		
24	Epc: 1½°N, 96¾°E. About 200 km Off the Coast of Sumatra. - H = 15h 49m 23s (U.S.C.G.S) - H = 15h 49m 24s (B.C.I.S)							
	KODAIKANAL	E	eP	15	54	15		Tremor
	SHILLONG	Z	iP	15	54	37	2650	Slight
		E	eS		58	51		
	BOKARO	N,E	iP	15	54	43	2340	Slight
			iS		58	33		
			iSS		59	16		
	CHATRA	Z	iP	15	55	03	2830	Feeble
			iPP		55	34		
	COLOMBO	E	L	15	58	52		
			M	16	01	12		Amp.=0.6 mm
24	DEHRA DUN	N,E	e	16	01	21		Feeble,phases
			e		05	18		not clear
25	CHATRA	Z	iP	01	17	23	280	Slight
			iS		17	55		
25	Epc: 51½°N, 177°W. Andrenof Islands and Aleutian Islands. - H = 03h 36m 47s (U.S.C.G.S) Magnitude =6½(Pas, Tacubaya), 6-6½(Berk), 6(Moskva).							
	CHATRA	Z	eP	03	48	20		Feeble, near
	HYDERABAD	E	eP	03	49	26	9170	Slight
			eS		59	43		
			PS	04	00	15		
			M		22	12		Per.=21 secs μ = 8
	BOMBAY	N,E	eP	03	49	38	9510	Slight
			SKKS		59	53		
			eS,iS	04	00	10		
		E	M		29	00		
		N	M		31	24		Per.=19 secs μ = 3
	POONA	Z,E	iP	03	49	39	9460	Slight
		E	eS	04	00	09		
	MADRAS	E	eP?	03	49	39	9260	Feeble
			eS?	04	00	00		
	SHILLONG	Z,N,	iP	03	48	09	7790	Moderate
		N	PcP		48	31		
			PcS		52	43		
			iS		57	20		
			PS		57	43		
			PPS		58	05		
			SS	04	01	43		
			Lq		05	06		
			M		14	36		
25	SHILLONG	Z	iP	10	52	02		Slight
	CHATRA	Z	iP	10	52	52	890	Slight
			iS		54	24		
25	DEHRA DUN	N,E	e	14	33	56		Tremor
25	SHILLONG	Z	eP	16	03	53		Feeble
25	SHILLONG	Z	eP	17	09	16		Feeble
	POONA	Z	i	17	11	07		Tremor
25	SHILLONG	Z	eP	19	33	41		Feeble
25	SHILLONG	Z	eP	22	37	06		Very feeble
26	SHILLONG	Z	iP	04	46	15		Slight

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
January 1957								
26	SHILLONG	Z	eP	06	28	23		Slight
	DEHRA DUN	N,E	e	07	19	12		Feeble, phases
			i		20	18		not clear
			i		20	28		
	CHATRA	Z	eP	07	20	41	1350	Slight
			iS		22	58		
	SHILLONG	Z	iP	07	21	23		Feeble
	POONA	Z	eP	07	24	59		Tremor
			i		25	02		
26	Epc: 11½°N, 125½°E. Near the East Coast of Samar, Phillipines. - H = 08h 57m 50s (U.S.C.G.S).							
	SHILLONG	Z	iP	09	04	40		
	CHATRA	Z	iP	09	05	18		Feeble, near
	POONA	Z	iP	09	06	48		Tremor
			ipP		07	02		
	SHILLONG	Z	e	09	10	54		Slight
26	SHILLONG	Z	eP	09	26	06		Slight
26	SHILLONG	Z	iP	16	26	43		Feeble, distant
26	Epc: 42½°N, 42°E. Georgia, U.S.S.R. - H = 16h 30m 48s (U.S.C.G.S) 42½°N, 42½°E. - H = 16h 30m 48s (Moskva and B.C.I.S). Magnitude = 5 (Moskva).							
	POONA	Z	eP	16	37	50	3890	Tremor
			ipP		38	15		
	CHATRA	Z	e	16	38	22		Slight, distant
	SHILLONG	Z	iP	16	38	56		Slight, very distant
26	SHILLONG	Z	iP	17	35	30		Very feeble, distant
	CHATRA	Z	e	17	39	40		Tremor
26	SHILLONG	Z	iP	17	51	42		Slight, distant
26	CHATRA	Z	i	20	08	51		Tremor
26	SHILLONG	Z	eP	22	40	58		Very feeble
26	SHILLONG	Z	eP	23	54	57		Very feeble
27	CHATRA	Z	iPg	00	47	27	70	Feeble
			iSg		47	36		
27	SHILLONG	Z	e	11	11	12		Slight
			i		12	03		
27	COLOMBO	E	L	11	30	21		
			M		33	31		Amp. = 0.4 mm
27	Epc: 10°N, 126½°E. Mindanao, Phillipine Islands. Felt: Surigao. - H = 14h 03m 22s (U.S.C.G.S) Magnitude = 5½ (Moskva).							
	SHILLONG	Z	iP	14	10	25		Slight
	MADRAS	E	eP	14	11	44	5150	Slight, distant
			eS		18	32		
			M		27	33		
27	HYDERABAD	E	eP	14	11	55	5170	Slight
			PP		13	49		
			PcS		17	23		
			eS		18	44		
			PS		18	57		
			PPS		19	05		
			SS		22	16		
			L		25	00		
			M		29	50		Per. = 21 secs μ = 5
27	COLOMBO	E	P	14	11	51	5020	
			S		18	31		
			L		28	21		
			M		32	11		Amp. = 0.8 mm
	POONA	Z	iP	14	12	32	5600	Tremor
			ipP		12	42		
27 Contd.	BOMBAY	E	eP	14	12	39	5745	Slight
			e		14	41		
		N,E	eS		20	00		
		E	e		24	08		
			M		39	11		Per. = 17 secs μ = 1
	DEHRA DUN	N,E	i	14	15	43		Feeble, phases not clear
28	Epc: 27°N, 130½°E. Ryukyu Islands - H = 05h 23m 25s (U.S.C.G.S)							
	CHATRA	Z	eP	05	30	49		Slight, distant
	POONA	Z	iP	05	32	42		Tremor
			i		32	47		
	DEHRA DUN	N,E	e	05	38	34		Feeble, phases not clear
	BOMBAY	N,E	eS	05	40	21		Very feeble
		N	M		58	--		
		E	M	06	01	--		
28	Epc: 38½°N, 69½°E. - H = 21h 01m 42s (U.S.C.G.S) 37½°N, 69½°E. - H = 21h 01m 42s (Moskva). Tadzhek, U.S.S.R.							
	DEHRA DUN	N,E	e	21	05	09		Feeble, phases not clear
28	POONA	Z	eP	21	05	48		Tremor
			e		05	58		
28	Epc: 49°N, 156°E, Northern Kurile Islands - H = 23h 18m 51s (U.S.C.G.S)							
	POONA	Z	iP	23	30	08		Tremor
			i		30	14		
29	SHILLONG	Z	eP	12	11	45		Slight
29	CHATRA	Z	eP	14	12	53	820	Slight
		E	iS		14	18		
29	SHILLONG	Z	eP	14	39	15		Slight
29	SHILLONG	Z	eP	15	07	08		Slight
29	Epc: 42½°N, 42½°E Georgia After shock - H = 15h 17m 30s (Moskva) 43°N, 43°E. - H = 15h 17m 30s (U.S.C.G.S)							
	SHILLONG	Z	eP	15	25	38		Slight
29	Georgia After shock. - H = 15h 21m 26s (Moskva).							
	SHILLONG	Z	eP	15	29	33		Slight
29	DEHRA DUN	N,E	e	15	36	14		Feeble, Phases not clear
29	SHILLONG	Z	eP	18	34	47		Slight
29	SHILLONG	Z	eP	18	56	35		Slight
29	SHILLONG	Z	iP	21	28	09		Slight
30	SHILLONG	Z	eP	02	01	20		Slight
30	CHATRA	Z	iP	16	26	12	190	Slight
			iS		26	35		
31	SHILLONG	Z	iP	05	27	11		Slight
31	CHATRA	Z	iP	19	10	21	970	Slight
			iS		12	01		

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S.Basu, M.Sc., F.N.I.,
Director General of Observatories

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List of Seismograph stations with their Instruments and Constants

Station	Latitude	Longitude	Height a.s.l. (Metres)	Lithographic foundation	Instrument	Comp.	Period in secs	Static Magnification	Damping ratio	Paper speed mm/min
Bombay	18°54'N	72°49'E	6	Deccan Trap	Milne-Shaw	N	12	350	13:1	16
					Milne-Shaw	E	12	350	23:1	8
					Sprengnether	E	To = Tg = 7 secs			30
Bokaro	23°50'N	85°48'E	-	Rock	Milne-Shaw	N	12	250	20:1	16
					Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	E	0.8	960	h=0.8	60
					Wood-Anderson	N	0.8	1000	h=0.8	60
Calcutta	22°32'N	88°22'E	(1) 7(Milne-Shaw) (2) 6(Omori-Ewing)		Milne-Shaw	E	12	250	20:1	8
					Wood-Anderson	N	2	870	Critical	30
				Alluvium	Omori-Ewing	N	16	32	-	25.4
					Omori-Ewing	E	21	30	-	25.4
Chatra	26°50'N	87°10'E	161	Sand Stone	Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	N	1	1000	30:1	60
					Benioff	Z	To=0.72	Tg=0.45 secs.	Critical	60
					Wenner-Accelerograph	ZNE	-	-	-	-
Colombo	06°54'N	79°52'E	7	Beach Sand	Milne-Shaw	E	12	250	20:1	-
Dehra Dun	30°19'N	78°02'E	682	Gravel	Wood-Anderson	N	0.8	950	Critical	60
					Wood-Anderson	E	0.8	850	Critical	60
					Milne-Shaw	N	12	250	20:1	8
					Milne-Shaw	E	12	250	20:1	8
Hyderabad	17°26'N	78°27'E	536	Granite	Milne-Shaw	E	12	250	20:1	8
					Milne-Shaw	N	12	250	20:1	8
Kodaikanal	10°14'N	77°28'E	2346	Rock	Milne-Shaw	E	10	250	20:1	8
Madras	13°00'N	80°11'E	15	-	Sprengnether	E	To=Tg=72 secs		Critical	30
New Delhi	28°35'N	77°12'E	207	Massive Quartzite						
Poona	18°32'N	73°51'E	560	Deccan Trap	Sprengnether	Z	To=Tg=1.6		Critical	30
					Wood-Anderson	E	4	1000	20:1	16
					Milne-Shaw	N	12	280	20:1	8
Port Blair	11°40'N	92°43'E	-	-	Wood-Anderson	N	2	1000	20:1	30
					Wood-Anderson	E	0.8	1000	66:1	30
					Milne-Shaw	N	12	350	20:1	8
Shillong	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)	Wood-Anderson	N	0.8	1000	h=0.h=0.8	30
					Wood-Anderson	E	0.8	1000	h=0.8	30
					Milne-Shaw	N	12	250	20:1	8
					Benioff	Z	To=1.0	Tg=0.18	-	60
					Sprengnether	E	To=Tg=6.5		Critical	30
					Wenner Accelerograph	ZNE	-	-	-	-
Tocklai	28°45'N	94°46'E	-	Alluvium	Wood-Anderson	E	0.8	970	h=0.8	60
Vizianagram	18°07'N	83°27'E	-	-	Wood-Anderson	E	0.8	1000	h=0.8	30
					Wood-Anderson	N	2	1000	20:1	30

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
01	SHILLONG	Z	eP	11 48 07		Slight
01	DEHRA DUN	N,E	e	15 12 43		Feeble. Phases
			i	14 13		not clear
			i	14 35		
	CHATRA	Z	iP	15 14 27		Slight
			i	17 54		
	POONA	Z	iP	15 14 43		Tremor
			i	14 50		
01	POONA	Z	iP	15 18 30		Tremor
			i	18 50		
01	CHATRA	Z	eP	21 05 52	260	Feeble
			iS	06 32		
01	DEHRA DUN	N,E	e	23 52 11		Tremor
	CHATRA	Z	iP	23 52 59	1920	Feeble
			iS	56 11		
02	CHATRA	Z	iP	01 36 50	490	Slight
			iS	37 23		
02	DEHRA DUN	N,E	e	13 43 12		Tremor
02	DEHRA DUN	N,E	e	14 26 12		Tremor
02	DEHRA DUN	N,E	e	14 36 57		Tremor
02	COLOMBO	E	e	17 46 55		
			e	55 30		
			e	18 12 25		
			e	16 30		
03	SHILLONG	Z	iPg	00 17 31	70	Slight. Felt
			eSg	17 34		locally
	CHATRA	Z	eP	00 18 38	750	Feeble
		E	e	19 46		
03	DEHRA DUN	N,E	e	16 37 39		Feeble. Phases not clear
03	Epc; 53½°N, 159°E. Kamchatka					
	- H = 17h 24m 50s (U.S.C.G.S)					
	- H = 17h 24m 52s (Moscow)					
	Magnitude = 6½-6¾(Pasadena), 6¾(Moscow, Berkeley).					
	CHATRA	Z	eP	17 34 43	6480	
		E	eS	42 45		
	NEW DELHI	N	eP	17 35 16	7110	
			PP	37 56		
			e	42 24		
			iS	43 52		
			i	45 00		
			i	47 03		
	POONA	Z	iP	17 36 17	7780	Slight
		N	PP	38 57		
			PPP	40 44		
		N,E	eS	45 27		
		N	e	50 33		
			e	53 43		
			M	18 05 24		Per. = 15 secs
						μ = 11.3
	BOMBAY	N	eP	17 36 18	7830	Moderate
		N,E	PP	39 07		
			eS	45 31		
		N	M	18 08 45		Per. = 15 secs
						μ = 9
		E	M	09 25		Per. = 18 secs
						μ = 7
	MADRAS	E	e	17 39 11		Feeble
			e	18 09 08		
	HYDERABAD	E	e	17 54 55		Per. = 15 secs
			M	18 05 04		μ = 7
	KODAIKANAL	E	e	18 06 15		
03	CHATRA	Z	iP	18 07 27	210	Slight
			iS	07 52		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
03	Epc: 53½°N, 159°E. Kamchatka. Aftershock of previous Kamchatka shock. - H = 22h 58m 24s (U.S.C.G.S).					
	POONA	Z	iP	23 09 51		Slight. Other
		N	M	41 11		phases not clear
	HYDERABAD	E	e	23 39 04		
04	CHATRA	Z	eP	01 36 58	100	Feeble
			iS	37 11		
04	SHILLONG	Z	iP	07 17 46		Slight Rarefaction
04	SHILLONG	Z	eP	09 21 25		Slight
04	Epc: 51°N, 160½°E. Off South Coast of Kamchatka. - H = 10h 28m 27s (U.S.C.G.S)					
	Magnitude = 5½ (Moscova)					
	SHILLONG	Z	iP?	10 38 19	6280	Rarefaction
		N	eP?			
			eS	46 10		
			M	58 25		
	CHATRA	Z	iP	10 38 30		
		E	e	38 45		
	POONA	Z	iP	10 40 03	8220	
		N	PP	42 33		
		N,E	e	48 49		
		N	eS	49 35		
			e	53 26		
			e	56 20		
			M	11 06 58		Per. = 21 secs
			Mn	09 10		μ = 6.3
	BOMBAY	E	eP	10 40 05	8250	
			eS	49 39		
			M	11 16 39		Per. = 15 secs
						μ = 1
04	DEHRA DUN	N,E	i	10 47 20		Feeble. Phases not clear
	SHILLONG	Z	eP	10 46 18		Slight Rarefaction
04	HYDERABAD	E	M	11 11 13		Per. = 14 secs
						μ = 3
04	SHILLONG	Z	eP	14 43 27		Slight Rarefaction
05	SHILLONG	Z	ePg	04 03 35		Slight
05	SHILLONG	Z	e	08 54 25		Slight
05	CHATRA	Z	iP	12 12 09	70	Feeble,
			iS	12 19		distant
05	SHILLONG	Z	eP	16 09 45		Slight Compression
	CHATRA	Z	e	16 10 05		Feeble
05	CHATRA	E	e	16 20 30		Feeble
05	CHATRA	Z	i	17 29 19		Feeble, near
06	SHILLONG	Z	eP	03 12 21		Slight
06	SHILLONG	Z	eP	04 31 32		Slight
06	SHILLONG	Z	eP	05 12 46		Slight Rarefaction
06	SHILLONG	Z	eP	08 31 12		Slight
06	SHILLONG	Z	iP	12 00 27		Slight Compression
06	Epc: 5°N, 106°E. Lake Baikal Region - H = 20h 34m 55s (U.S.C.G.S) 50½°N, 105°E. - H = 20h 35m 01s (Moscova). Magnitude = 6.4(Uppsala, Kiruna), 6(Moscova), 6¼(Praha).					
	SHILLONG	N	eP	20 40 40	3030	
			eS	45 19		

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DATE	STATION	COMPT	PHASE	G. h	M. m	T. s	Δ km	REMARKS
February 1957								
06 Contd.	SHILLONG	N	SS	20	46	37		
			M		49	37		
	CHATRA	Z	iP	20	40	42	3050	
		E	iS		45	22		
	DEHRA DUN	N,E	e	20	40	53		Phases not clear
		N	e		42	12		
			i		46	13		
			e		48	15		
			e		48	33		
			e		51	55		
	BOKARO	N,E	eP	20	41	05	3430	
			PP		42	01		
			PPP		42	14		
			* Lr		48	55		
			M		51	31		
			* eS		46	09		
	NEW DELHI	N	eP	20	41	14	3480	
			PP		42	11		
			PcP		44	12		
			iS		46	21		
			Lq		47	19		
			SS		47	49		
			M		50	53		
	HYDERABAD	E	eP	20	42	32	4260	Initial ground movement towards East.
			PP		44	07		
			iS		48	28		
			Lr		53	14		
			M		56	20		Per. ~11 secs μ ~ 5
	POONA	Z	eP	20	42	36	4300	
		E	PcP		44	23		
			eS		48	34		
			PS		48	42		
			SSS		52	15		
			M		57	05		Per. ~12 secs μ ~ 10.5
	BOMBAY	N,E	eP	20	42	45	4430	
			PcP		44	22		
		E	eS		48	43		
			Lq		52	12		
		N	M	21	00	04		Per. ~11 secs μ ~ 6
	MADRAS	E	eP	20	43	02	46200	
			PP		44	42		
			eS		49	19		
			M?		58	29		
	COLOMBO	E	e	20	51			
			e	21	05			
			e		08	05		
	KODAIKANAL	E	e	20	59	48		
			e	21	00	23		
			i		03	30		
			e		04	27		
			e		04	51		
			e		06	33		
07	SHILLONG	Z	eP	04	29	49		Slight Compression
07	SHILLONG	Z	eP	04	31	59		Slight Rarefaction
07	POONA	Z	iP	09	22	40		Tremor
			i		22	52		
07	SHILLONG	Z	iP	14	41	00		Compression Slight
07	SHILLONG	Z	iP	15	32	43		Slight Compression
07	CHATRA	Z	iP	19	21	54	810	Slight
			iS		23	18		
07	CHATRA	Z	eP	20	38	57	710	Slight
			iS		40	11		
08	CHATRA	Z	i	02	54	46		Feeble, near
08	SHILLONG	Z	iP	05	45	40		Slight Compression

DATE	STATION	COMPT	PHASE	G. h	M. m	T. s	Δ km	REMARKS
February 1957								
08 Contd.	CHATRA	Z	i	05	46	19		Feeble near
08	CHATRA	Z	iP	07	29	01	770	Slight
			iS		30	21		
08	SHILLONG	Z	iP	15	34	49		Slight Compression
08	CHATRA	Z	e	20	29	47		Slight
		E	i		31	34		
	BOKARO	N	e	20	33	09		Tremor
	DEHRA DUN	N,E	e	20	34	27		Tremor
08	CHATRA	Z	eP	23	35	16	150	Feeble
			iS		35	35		
09	POONA	Z	eP	02	03	45		Tremor
			i		03	55		
	DEHRA DUN	N,E	e	02	12	27		Tremor
	CHATRA	Z	e	02	17	46		Feeble, distant
09	SHILLONG	Z	eP	06	05	59		Slight Compression
	CHATRA	Z	e	06	06	37		Feeble, distant
09	SHILLONG	Z	eP	06	58	44		Slight Compression
09	SHILLONG	Z	eP	07	42	57		Slight
09	SHILLONG	Z	iP	08	15	44		Slight Compression
09	CHATRA	Z	i	08	16	19		Feeble, distant
09	CHATRA	Z	i	09	59	29		Feeble very near
09	CHATRA	Z	iP	13	26	52	110	Slight
		E	iS		27	07		
09	SHILLONG	Z	eP	14	52	18		Slight
10	SHILLONG	Z	eP	04	28	32		Slight
10	CHATRA	Z	iP	06	58	24	290	Slight
			iS		58	57		
10	SHILLONG	Z	eP	15	47	25		Slight
10	DEHRA DUN	N,E	e	14	38	34		Phases not clear
			i		38	43		
10	SHILLONG	Z	eP	16	46	35		Slight
10	Epc 10°N, 126°E. Mindanao, Philippine. H = 22h 32m 15s (U.S.C.G.S) 10°N, 126°E. H = 22h 32m 17s (Moscova) Magnitude = 7(Strasbokrg), 6¾(Uppsala, Kiruna) 6½-6¾(Pasadena), 6½(Moscova, Praha, Lwiro).							
	SHILLONG	N	iP	22	39	20	3920	
			PP		40	43		
			PPP		41	58		
			iS		44	54		
			i		47	42		
			PS		48	05		
			PPS		48	24		
			SS		51	31		
			SSS		55	31		
			M	23	03	01		Per. ~15 secs Amp. 3 mm
	CHATRA	Z,E	eP	22	39	56		
		E	i		46	19		
	BOKARO	N,E	iP	22	39	56	4500	Initial ground movement towards West and North
			iS		46	05		
	MADRAS	E	iP	22	40	37	5000	Initial ground movement towards West.
			PP		42	21		
			PPP		43	03		
			eS		47	16		
			PPS		47	34		
			SS		50	19		
			M		55	35		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
10 Contd.	HYDERABAD	E	iP	22 40 49	5220	Initial ground movement towards West.
			PcP	42 20		
			PP	42 38		
			PPP	43 37		
			iS	47 41		
			PS	47 50		
			SS	51 12		
			Lr	54 13		
			M	58 14		Per.≈17 secs μ ≈18
	COLOMBO	E	S	22 47 51		
			e	58 06		
			M	23 02 01		Amp: 3.6 mm
	KODAIKANAL	E	iP	22 41 02	5480	
			PP	42 56		
			PPP	43 53		
			S	48 08		
			SS	51 38		
			SSS	53 05		
			Lr	55 26		
			M	59 32		Per.≈15 secs μ ≈19.6
	DEHRA DUN	N,E	eP	22 41 00	5500	
		N	PPP	44 02		
			iS	48 07		
			PS	48 25		
			SS	51 36		
			Lq	52 25		
			SSS	52 51		
			Lr	54 48		
			M	58 43		
	NEW DELHI	N	eP	22 41 02	5510	
			PPP	43 56		
			e	47 46		
			iS	48 10		
			i	49 07		
			ScS	50 54		
			SS	51 51		
			SSS	53 11		
			i	54 25		
			M	59 29		
	POONA	Z	iP	22 41 22	5650	
		E	PP	43 12		
			PPP	44 15		
			e	48 32		
			eS	48 38		
			e	50 46		
			e	51 54		
	BOMBAY	E	eP	22 41 30	5750	
			PP	43 29		
			eS	48 52		
			PS	49 03		
			PPS	49 08		
			i	23 02 14		
			i	07 30		
			M	26 --		
10	CHATRA	Z	e	22 58 32		
	BOKARO	N,E	i	22 58 35		Slight. Phases not clear
			i	59 56		
			i	23 00 13		
			i	00 39		
	POONA	Z	iP	22 59 59	5700	Moderate, aftershock of the previous one.
		E	eS	23 07 18		
11	Epc: 10°N, 126°E. Mindanao, Philippines - H ≈ 01h 14m 44s (U.S.C.G.S) Magnitude ≈ 6.6(Uppsala, Kiruna), 6½(Pasadena, Praha).					
	SHILLONG	N	iP	01 21 43	3930	
			PP	23 13		
			PPP	23 39		
			iS	27 17		
			SSS	30 06		
			M	34 29		
	CHATRA	Z	i	01 22 24		Distant
	BOKARO	N,E		01 22 32		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
11 Contd.	MADRAS	E	eP	01 23 01	4690	
			PP	24 52		
			PPP	25 23		
			eS	29 22		
			PPS	29 38		
			SS	32 26		
			Lq	33 03		
			M	38 56		
	COLOMBO	E	P	01 23 21	4830	
			S	29 51		
			L	39 51		
			M	42 51		Amp.≈2.6 mm
	HYDERABAD	E	iP	01 23 21	5170	Initial ground movement towards West.
			PP	25 13		
			PPP	25 46		
			iS	30 10		
			ScS	32 52		
			SS	33 41		
			Lq	34 34		
			Lr	36 43		
			M	40 48		Per.≈18 secs μ ≈20
	DEHRA DUN	N,E	eP	01 23 36	5390	
		N	iS	30 37		
			PS	30 50		
			Lq	34 50		
			Lr	37 25		
			M	41 25		
	KODAIKANAL	E	iP	01 23 32	5480	Initial ground movement towards East
			PP	25 26		
			PPP	26 23		
			S	30 38		
			SS	34 08		
			SSS	35 35		
			Lr	37 56		
			M	42 02		Per.≈20 secs μ ≈40
	POONA	Z	iP	01 23 47	5690	Aftershock of the previous one
		E	eS	31 05		
	BOMBAY	N,E	eP	01 24 03	5720	
			PP	26 06		
			PcS	29 05		
			eS	31 23		
			PS	31 37		
		E	Lq	35 43		
		N	M	46 39		Per.≈22 secs μ ≈16
		E	M	54 11		Per.≈15 secs μ ≈ 8
11	SHILLONG	Z	iP	03 18 46		Slight Compression
11	SHILLONG	Z	iP	03 32 25		Slight Compression
11	SHILLONG	Z	iP	03 43 16		Slight Rarefaction
11	SHILLONG	Z	iP	03 51 35		Slight Rarefaction
	CHATRA	Z	i	03 52 13		Feeble, distant
11	SHILLONG	Z	eP	04 11 13		Compression Slight
11	COLOMBO	E	e	04 11 49		
			e	14 29		Amp.≈0.4 mm
11	SHILLONG	Z	eP	04 02 09		Slight Compression
11	SHILLONG	Z	eP	04 54 57		Slight
11	SHILLONG	Z	iP	04 58 56		Slight Rarefaction
11	SHILLONG	Z	iP	06 54 42		Slight
11	SHILLONG	Z	eP	07 04 11		Slight

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
11	SHILLONG	Z	iP'	07 35 32		Slight
11	SHILLONG	Z	eP	07 51 58		Slight Rarefaction
11	SHILLONG	Z	eP	09 48 29		Slight
11	SHILLONG	Z	eP	11 12 35		Slight
11	Epc 10°N 126°E Mindanao Philippines H = 14h 25m 38s (U.S.C.G.S). Mindanao aftershock. Magnitude 6½(Pasadena), 6.2(Uppsala, Kiruna).					
	SHILLONG	Z	eP	14 32 40		
	CHATRA	Z	e	14 33 22		Distant surface waves.
		E	e	43 26		
	MADRAS	E	eP	14 34 01	5080	
			PP	35 49		
			e	39 45		
			eS	40 44		
			SS?	43 56		
			M	50 15		
	COLOMBO	E	P	14 34 08	5100	
			S	40 52		
			L	52 55		
			M	55 40		Amp: 0.7 mm
	HYDERABAD	E	iP	14 34 14	5220	Initial ground
			PP	36 04		movement towards
			PcS	39 47		West
			iS	41 06		
			Lr	47 35		
			M	51 33		Per. 15 secs μ = 4
	KODAIKANAL	E	e	14 34 22		
	DEHRA DUN	N.E	e	14 34 44		Phases not
			i	41 39		clear
	POONA	Z	iP	14 34 49	5710	Slight
		E	eS	42 08		
	BOMBAY	N.E	eP	14 34 57	5750	
		E	PP	37 00		
		N.E	eS	42 18		
		E	PS	42 30		
			Lq	46 34		
			M	15 01 34		Per. 15 secs μ 2
	BOKARO	N	e	14 39 31		
11	SHILLONG	Z	eP	16 05 17		Slight Rarefaction
11	SHILLONG	Z	eP	16 13 18		Slight
11	COLOMBO	E	P	19 11 50		
			L	23 50		
			M	26 30		Amp: 0.2 mm
12	SHILLONG	Z	eP	03 32 03		Slight
12	SHILLONG	Z	iP	04 56 10		Slight
12	CHATRA	Z	iP	05 34 44	150	Feeble
			iS	35 03		
12	Epc: 48½°N. 155°E. Northern Kurile Islands H = 08h 52m 48s (U.S.C.G.S)					
	SHILLONG	Z	iP	09 02 12		Slight
	CHATRA	Z	e	09 02 29		Feeble, distant
	DEHRA DUN	N.E	e	09 02 51		Tremor
	POONA	Z	iP	09 04 07		Tremor
			i	04 27		
	BOMBAY	N.E	eP	09 04 10	7810	Slight
		E	eS	13 22		
			M	38 22		Per. 13 secs μ = 1
		N	M	38 23		Per. 15 secs μ = 2

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
12	HYDERABAD	E	M	09 33 19		Per. 15 secs μ = 2
12	CHATRA	Z	iP	10 45 48	80	Slight
			iS	45 59		
13	Epc 10°N 126½°E Mindanao aftershock H = 00h 29m 48s (U.S.C.G.S). Magnitude 6.3(Uppsala, Kiruna)					
	SHILLONG	N.E	iP	00 36 54	3970	
			PP	38 18		
			PPP	38 40		
			iS	42 31		
			SS	44 55		
			Lq	45 03		
			SSS	45 29		
			Lr	46 47		
			M	49 23		
	CHATRA	Z	e	00 37 32		
		E	e			
	MADRAS	E	eP	00 38 12	5080	
			PcP	39 44		
			eS	44 55		
			SS	48 03		
			SSS	49 22		
			M	55 49		
	COLOMBO	E	P	00 38 15	5180	
			S	45 05		
			L	57 35		
			M	59 35		Amp 0.9 mm
	HYDERABAD	E	iP	00 38 23	5220	Initial ground
			PP	40 10		movement
			PcS	43 46		towards West
			iS	45 15		
			ScS	48 10		
			SS	48 43		
			Lq	49 46		
			SSS	49 58		
			Lr	52 19		
			M	56 07		Per 16 secs μ 5
	KODAIKANAL	E	iP	00 38 34	5210	Initial ground
			PP	40 22		movement
			PPP	41 10		towards East
			S	45 25		
			SS	48 40		
			SSS	50 01		
			Lr	52 07		
			M	55 55		Per. 20 secs μ 8.1
	DEHRA DUN	N.E	eP	00 38 50	5340	Other phases
		N	iS	45 48		not clear
			SS	48 35		
			Lq	50 17		
	POONA	Z	iP	00 38 58	5690	
		E	PP	41 01		
			eS	46 17		
			PPS	46 28		
			ScS	48 30		
			Lr	53 59		
	BOMBAY	N.E	eP	00 39 07	5830	
		E	PP	41 11		
		N.E	eS	46 33		
		N	M	01 03 23		Per. 12 secs μ = 1
		E	M	06 20		Per. 18 secs μ = 4
13	MADRAS	E	e	04 47 50		Feeble
	SHILLONG	Z	eP	04 48 23		Slight
	CHATRA	Z	eP	04 48 53	2150	Slight
		E	iS	52 26		
	POONA	Z	eP	04 49 27		Tremor
13	SHILLONG	Z	eP	10 08 46		Feeble
13	SHILLONG	Z	eP	12 44 30		Slight

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
February 1957								
13	SHILLONG	Z	eP	14	17	28		Slight
13	SHILLONG	Z	eP	14	51	09		Slight
13	SHILLONG	Z	iP	16	45	34		Slight, local
13	SHILLONG	Z	iP	17	02	28		Slight
13	SHILLONG	Z	ePg	19	34	37	90	Slight
			Sg		34	47		
13	SHILLONG	Z	iP	20	30	41		Slight, distant
			i		30	56		
13	SHILLONG	Z	iP	21	43	35		Feeble
13	SHILLONG	Z	eP	22	50	33		Very feeble
14	SHILLONG	Z	eP	10	23	19		Feeble
14	SHILLONG	Z	eP	16	47	41		Slight
14	SHILLONG	Z	eP	16	10	48	200	Feeble
			Sg		11	15		
14	CHATRA	Z	i	18	30	38		Feeble, near
	SHILLONG	Z	eP	18	30	43	200	Very feeble
			Sg		31	24		
14	CHATRA	Z	iP	20	03	17	180	Feeble
			iS		03	39		
14	SHILLONG	Z	eP	20	44	49		Very slight, local.
14	SHILLONG	Z	iP	22	32	18		Slight
14	SHILLONG	Z	iP	23	07	00		Slight
	DEHRA DUN	N, E	e	23	22	16		Feeble. Phases not clear
14	SHILLONG	Z	iP	23	41	07		Feeble
15	SHILLONG	Z	eP	07	16	31		Slight
15	SHILLONG	Z	eP	07	52	46		Feeble
15	SHILLONG	Z	e	07	53	25		Feeble
15	SHILLONG	Z	eP	07	59	01		Feeble
15	SHILLONG	Z	eP	11	25	17		Slight
15	SHILLONG	Z	iP	12	09	12		Slight, local
15	CHATRA	Z	iP	12	10	02	1040	Feeble
			iS		11	49		
15	SHILLONG	Z	iP	16	43	10		Slight
15	SHILLONG	Z	eP	16	59	57		Very feeble
15	SHILLONG	Z	eP	17	52	24		Very feeble
15	SHILLONG	Z	iP	17	56	51		Slight
15	SHILLONG	Z	eP	18	58	25		Very feeble
15	SHILLONG	Z	eP	19	46	03		Feeble
15	SHILLONG	Z	iP	20	13	31		Feeble
15	SHILLONG	Z	iP	21	55	12		Feeble
15	SHILLONG	Z	eP	22	13	58		Very feeble
15	SHILLONG	Z	eP	22	24	32		Feeble
16	SHILLONG	Z	eP	09	56	57		Very feeble
16	SHILLONG	Z	eP	11	22	34		Feeble
16	Epc: 5½°S, 110°E. Java Sea. - h = 55 Km Ca. - H = 14h 12m 30s (U.S.C.G.S).							
	SHILLONG	Z	iP	14	18	48		Slight

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
February 1957								
16 Contd.	CHATRA	Z	iP	14	19	13		Slight
			i		21	10		
	POONA	Z	iP	14	19	45		Tremor
16	SHILLONG	Z	iP	15	34	03		Slight
16	SHILLONG	Z	eP	20	10	49		Slight, local
16	SHILLONG	Z	iP	21	08	48		Feeble, distant
16	SHILLONG	Z	iP	23	00	03		Slight, distant
16	SHILLONG	Z	eP	23	55	29		Very feeble
17	SHILLONG	Z	iP	07	39	41		Slight
17	SHILLONG	Z	iP	09	57	02		Slight, distant
17	SHILLONG	Z	eP	10	01	40	180	Slight
			Sg		02	03		
17	SHILLONG	Z	iP	13	32	18	210	Slight
			Sg		32	46		
17	SHILLONG	Z	eP	14	55	04	210	Feeble, local
			Sg		55	33		
17	SHILLONG	Z	eP	16	05	56		Feeble
	POONA	Z	iP	16	06	19		Tremor
			i		06	28		
17	SHILLONG	Z	iP	16	12	44		Slight
17	SHILLONG	Z	eP	17	53	50		Slight
17	SHILLONG	Z	eP	20	34	55		Very feeble
17	SHILLONG	Z	iP	21	18	59	160	Slight
			Sg		19	09		
17	SHILLONG	Z	eP	22	17	47		Very feeble
18	SHILLONG	Z	iP	00	27	38		Slight
18	SHILLONG	Z	iP	00	33	48		Slight
18	SHILLONG	Z	iP	00	55	49		Very feeble, distant
18	SHILLONG	Z	iP	02	39	58		Slight
	CHATRA	Z	eP	02	40	26	300	Feeble
			iS		41	00		
18	SHILLONG	Z	iP	07	26	16		Slight
18	SHILLONG	Z	iP	08	00	58		Slight
18	SHILLONG	Z	eP	14	00	10		Very feeble
	POONA	Z	eP	14	51	02		Tremor
18	DEHRA DUN	N, E	e	15	14	55		Feeble. Phases not clear
			i		15	26		
	CHATRA	Z	eP	15	16	32	1190	Slight
			iS		18	34		
18	SHILLONG	Z	eP	16	21	49		Feeble, distant
18	CHATRA	Z	iP	21	28	26	260	Slight
			iS		28	56		
18	SHILLONG	Z	eP	21	33	12		Very feeble distant
18	SHILLONG	Z	eP	22	44	44		Feeble, distant
19	POONA	Z	iP	00	09	31		Tremor
			i		09	39		
	SHILLONG	Z	iP	00	09	46		Slight, very distant

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DATE	STATION	COMPT	PHASE	G. M. T h m s	Δ km	REMARKS
February 1957						
19	SHILLONG	Z	eP	04 37 25		Slight, distant
19	SHILLONG	Z	iP	05 22 00		Slight, distant Rarefaction
19	SHILLONG	Z	eP	07 47 12		Slight distant
19	Epc: 36½°N, 22°E. Near South Coast of Greece. H = 07h 43m 54s (U.S.C.G.S) 36½°N, 21¾°E. - H = 07h 43m 56s (B.C.I.S) Magnitude = 6¼(Uppsala, Kiruna, Bratestava), 6 2(Kew), 6 (Athenes).					
	DEHRA DUN	N,E	e	07 52 24		Phases not
			i	59 23		clear
	BOMBAY	N,E	eP	07 52 38	5300	
			eS	59 34		
	POONA	Z	iP	07 52 45		Feeble shock
		E	e	59 57		
	CHATRA	Z	i	07 53 31		Feeble near
	SHILLONG	Z	eP	07 53 47		Moderate, distant
	HYDERABAD	E	eS	08 02 40		
			M	23 26		Per. = 12 secs μ = ?
19	CHATRA	Z	i	13 55 56		Feeble near
19	SHILLONG	Z	iP	17 01 42		Slight distant Compression
19	SHILLONG	Z	iP	17 26 10		Moderate, distant Rarefaction
19	SHILLONG	Z	iP	17 31 31		Tremor Rarefaction
19	Epc: 56°N, 164°E. Near East Coast of Kamchatka - H = 19h 58m 55s (U.S.C.G.S) 56°N, 163°E. - H = 19h 59m 03s (Moscova). Magnitude = 5½ (Moscova).					
	SHILLONG	Z	eP	20 08 57		Distant Rarefaction
	POONA	Z	i	20 11 27		
19	SHILLONG	Z	iP	20 25 43		Distant Rarefaction
	CHATRA	Z	iP	20 27 41		
			i	28 55		
20	SHILLONG	Z	iP	04 52 15		Slight, distant Compression
20	SHILLONG	Z	eP	08 44 15		Feeble, distant
20	SHILLONG	Z	eP	09 43 18		Feeble distant Compression
20	SHILLONG	Z	eP	13 09 23		Slight distant
20	CHATRA	Z	i	13 09 36		Feeble, near
20	CHATRA	Z	iP	14 07 50	100	Feeble
			iS	08 03		
20	SHILLONG	Z	eP	17 22 23		Slight distant Compression
20	SHILLONG	Z	eP	20 18 28		Slight distant Compression
20	Epc: 2°N, 97°E. Near Coast of Sumatra - H = 21h 58m 23s (U.S.C.G.S) 2°N, 97°E. - H = 21h 58m 25s (B.C.I.S) 2°N, 98°E. - H = 21h 58m 25s (Shillong) Magnitude = 6.3 (Uppsala, Kiruna)					
	COLOMBO	E	P	22 02 30		
			e	06 08		
			e	08 10		
			e	09 45		

DATE	STATION	COMPT	PHASE	G. M. T h. m. s.	Δ km	REMARKS
February 1957						
20 Contd.	MADRAS	E	iP	22 03 03	2200	Ground movement towards East.
			PP	03 24		
			eS	06 41		
			Lq	06 49		
			SS	07 11		
			SSS?	07 29		
			Lr	07 51		
			M	09 37		
	BOKARO	N,E	iP	22 03 09	2370	Initial ground movement towards North.
			eS	07 02		
	KODAIKANAL	E	iP	22 03 25	2460	Initial ground movement towards East.
			PPP	03 58		
			S	07 25		
			SS	07 28		
			SSS	07 58		
			Lr	08 25		
			M	10 13		Per. = 20 secs μ = 8.1
	SHILLONG	Z,N,E	iP	22 03 38	2660	Initial ground movement towards North and West
		N,E	pP	03 59		
			sP	04 09		
			PP	04 22		
			iS	07 52		
			sS	08 29		
			Lq	08 56		
			SS	09 01		
			SSS	09 20		
			Lr	09 56		
			M	12 03		Per. = 24.7 secs μ = 12
	HYDERABAD	E	eP	22 03 41	2770	
			iS	08 03		
			Lr	09 41		
			M	11 59		Per. = 18 secs μ = 5
	CHATRA	Z	iP	22 04 03	2960	
		E	iS	08 37		
	POONA	Z	iP	22 04 19	3110	
			e	04 27		
			PPP	05 54		
			PcP	06 58		
			eS	09 03		
			PcS	10 37		
			SS	11 39		
			Lr	12 49		
	BOMBAY	N,E	eP	22 04 37	3330	
		N	PcP	07 30		
			eS	09 35		
		N,E	Lq	11 23		
			SS	11 36		
			M	21 13		Per. = 12 secs μ = 2
		E	M	21 36		Per. = 11 secs μ = 8
	NEW DELHI	N	eP	22 04 55	3570	
			PPP	06 25		
			iS	10 08		
			i	10 27		
			SS	12 01		
			SSS	12 23		
			Lr	13 08		
			M	15 54		
	DEHRA DUN	N,E	eP	22 05 04	3640	
		N	PP	06 21		
			iS	10 21		
			Lq/SS	12 18		
			SSS	13 15		
			M	16 34		
20	SHILLONG	Z	i	22 03 12		Slight.
21	CHATRA	Z	iP	14 30 59	120	Slight
		E	iS	31 15		
21	Epc: 53°N, 171°W. Fox Islands, Aleutian Islands. h = 100 Km, - H = 14h 30m 06s (U.S.C.G.S). Magnitude = 7(Moscova), 6¾(Pasadena, Uppsala).					
	SHILLONG	Z	iP	14 41 34		Distant Rarefaction

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
February 1957								
21	CHATRA	Z	i	14	41	41		Distant
Contd.								
	POONA	Z	iP	14	42	55		
			i		43	06		
	BOMBAY	N	eP	14	42	58		
			e		43	33		
			e		46	28		
		E	e		46	59		
			e		54	59		
21	SHILLONG	Z	eP	15	31	47		Slight, distant
22	CHATRA	Z	i	05	02	06		Feeble, near
22	POONA	Z	iP	17	24	11		Tremor
23	CHATRA	Z	i	00	28	42		Slight, distant
23	CHATRA	Z	iP	01	00	22	880	Feeble
			iS		01	53		
23	POONA	Z	iP	05	09	10		Tremor
			i		09	22		
23	SHILLONG	Z	iP	11	11	29		Slight, distant Compression
23	CHAERA	Z	iP	15	11	24	300	Feeble
			iS		11	58		
23	SHILLONG	Z	eP	17	14	52		Feeble, distant
23	SHILLONG	Z	eP	19	03	32		Slight, distant Compression
23	SHILLONG	Z	eP	19	39	35		Slight, distant Compression
23	SHILLONG	Z	eP	19	56	03		Slight, distant Compression
23	Epc: 26½°N, 123°E. Formosa.-H=20h 26m 02s (Shillong) 24°N, 122°E. - H = 20h 26m 12s (U.S.C.G.S). 24°N, 121½°E.- H = 20h 26m 09s (B.C.I.S). 23°N, 122°E. - H = 20h 26m 08s (JMA, Japan). Magnitude = 7¼(Uppsala, Kiruna), 7-7¼(Pasadena), 7(Shillong). 11 killed, many injured and extensive damage at Hualien and Taipei.							
	SHILLONG	Z,N,E	iP	20	31	54	3080	Compression
		E	i		32	25		Initial ground
		E,N	PP		32	40		movement towards
			PPP		32	57		West.
			PcP		35	14		
			iS		35	36		
			Lq		37	46		
			SS		38	00		
			SSS		38	26		
			Lr		38	58		
			M		40	58		Per.=13 secs μ =12.6
	CHATRA	Z	iP	20	32	33	3550	
		E	iS		37	45		
	BOKARO	N,E	iP	20	32	44	3680	Initial ground
			PP		33	50		movement towards
			PPP		34	10		South and West
			iS		38	03		
			Lq		40	13		
			SSS		40	37		
			Lr		41	54		
		N	M		44	31		Per.=20.6 secs μ =13.3
		E	M		44	31		Per.=16.9 secs μ =109
	DEHRA DUN	N,E	eP	20	33	37	4350	
		N	PP		35	22		
			PPP		35	37		
			iS		39	38		
			SS		42	02		
			Lq		42	26		
			SSS		42	40		
			Lr		44	12		
			M		46	53		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
February 1957								
23	NEW DELHI	N	eP	20	33	41	4460	
			PPP		35	37		
			iS		39	48		
			SS		42	19		
			SSS		42	53		
			Lr		44	43		
			M		47	19		
	MADRAS	E	iP	20	33	54	4620	Initial ground
			i		34	18		movement
			i		35	12		towards West.
			PP		35	32		
			PPP?		35	54		
			iS		40	12		
			SS		42	54		
			SSS		43	53		
			Lr		45	46		
			i		48	40		
			M		51	14		
	HYDERABAD	E,N	iP	20	33	55		Initial ground
			e		34	19		movement towards
			e		35	24		South and West.
			e		35	43		
		E	e		39	48		
		E,N	i		40	08		
		N	e		40	38		
			e		43	26		
		E	e		45	49		
		N	e		45	58		
			e		50	19		
		E	e		51	30		
	COLOMBO	E	iP	20	34	14		
			i		40	49		
			e		44	19		
			e		53	19		
			e		56	11		
	KODAIKANAL	E	iP	20	33	09	5110	Moderate
			PP		36	03		Initial ground
			PPP		36	59		movement
			S		41	06		towards West.
			SS		44	18		
			Lq		45	03		
			SSS		45	21		
			Lr		47	21		
			M		51	03		Per.=15 secs μ =24.5
	POONA	Z	iP	20	34	23	5000	Initial ground
		E	PcP		35	50		movement towards
		E,N	PP		35	59		South and West
		N	PPP		37	07		Compression
		N,E	iS		41	02		
		N	PS		41	13		
		E	ScS		43	15		
		N,E	SS		44	23		
		E	Lq		45	23		
		N,E	SSS		45	37		
		E	Lr		47	31		
			Mn		53	23		Per.=18 secs μ =54.8
	BOMBAY	N,E	eP	20	34	32	5030	
			i		34	58		
		E	PP		36	29		
		N	eS		41	13		
		N,E	PS		41	22		
			i		41	48		
		E	i		42	12		
			SS		44	52		
		N	Lq		45	10		
			SSS		45	36		
		E	i		47	03		
		N	Lr		47	18		
			i		48	22		
		E	i		49	03		
		N	M		55	10		Per=15 secs μ =28
		E	M		57	40		Per=15 secs μ =28
23	SHILLONG	Z	e	21	03	09		Tremor
23	SHILLONG	Z	iP	22	50	58		Slight, distant Rarefaction.

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1957						
23	SHILLONG	Z	eP	23 06 12		Feeble, distant Compression
24	SHILLONG	Z	eP	04 16 17		Slight, distant Compression
	CHATRA	Z	iP	04 32 50	190	Feeble
			iS	33 13		
24	CHATRA	Z	i	04 33 59		Feeble, near
24	DEHRA DUN	N E	e	08 50 54		Tremor
24	SHILLONG	Z	eP	14 15 16		Slight distant
24	SHILLONG	Z	eP	17 13 06		Slight, distant
24	SHILLONG	Z	eP	17 30 14		Slight, distant
24	SHILLONG	Z	eP	17 54 08		Local, slight
24	SHILLONG	Z	eP	18 13 48		Slight, distant
24	SHILLONG	Z	iP	21 53 08		Slight, distant Compression
24	SHILLONG	Z	eP	22 52 35		Slight, distant Compression
25	SHILLONG	Z	iP	02 12 05		Slight, distant Compression
25	SHILLONG	Z	iP	13 30 06		Slight Compression
	POONA	Z	iP	13 31 31		Tremor
			i	31 36		
25	SHILLONG	Z	iP	22 33 52		Slight Rarefaction
25	DEHRA DUN	N E	e	23 35 41		Feeble. Phases
			i	37 30		not clear
25	SHILLONG	Z	e	23 38 02		Slight
26	SHILLONG	Z	i	00 49 49		Slight, local
26	SHILLONG	Z	iP	01 07 30		Slight, local
26	SHILLONG	Z	iP	03 01 35		Slight Compression
26	MADRAS	E	e	03 03 09		Feeble
			e	09 46		
	POONA	Z	eP	03 03 48		Tremor
26	SHILLONG	Z	e	14 06 42		Tremor
26	SHILLONG	Z	iP	15 23 23		Slight Compression
26	SHILLONG	Z	iP	16 54 15		Slight, distant
26	SHILLONG	Z	iP	21 53 04		Slight, distant
27	SHILLONG	Z	iP	07 02 31		Slight, distant

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s	Δ km	REMARKS
February 1957						
27	Epc: 24°N 121¼°E. Formosa aftershock H. 15h 01m 22s (U.S.C.G.S)					
	SHILLONG	Z E	iP	15 07 06	3030	Slight Compression
		E	PP	07 54		
			PPP	08 06		
			S	11 45		
			Lq	12 47		
			M	16 19		
	CHATRA	Z	e	15 07 46		Feeble near
		E	e	07 48		
	POONA	Z	iP	15 09 38		Tremor
27	SHILLONG	Z	iP	16 20 18		Slight Compression
28	SHILLONG	Z	iP	00 31 13		Slight
28	CHATRA	Z	e(P)?	09 43 31		Feeble near
			i(S)?	45 35		
28	SHILLONG	Z	iP	11 12 56		Slight Compression
28	SHILLONG	Z	eP	19 32 40		Slight
28	CHATRA	Z	iP	23 11 26	70	Feeble
			iS	11 35		
28	Epc: Western Indian Ocean about 1300 Kms Off Coast of Madagascar. 33°S 58½°E. H. 23h 31m 25s (U.S.C.G.S) H. 23h 31m 22s (B.C.I.S)					
	POONA	Z	iP	23 40 36	5850	Slight
		N	PP	42 22		
			eS	48 03		
			SS	51 45		
			Lq	53 39		
	SHILLONG	Z	i	23 42 07		Slight distant
	DEHRA DUN	N E	e	23 47 23		Feeble Phases not clear
	HYDERABAD	E N	e	23 48 06		
		N	e	55 55		
		E	e	56 06		

Earthquake Reports

(Non Instrumental Reports).

Following is the list of earthquakes that were reported by Voluntary Observers from different stations during the month of February 1957

PLACE AT WHICH FELT	DATE IN G.M.T.	TIME IN G.M.T h. m.	NO. OF SHOCKS	DURATION OF SHOCKS IN SECS	INTENSITY IN R.F SCALE	REMARKS
SHILLONG	03	00 17	1	2	II	
SHILLONG	23	01 05	1	15	II	
JABALPUR	28	09 45	1	2 to 3	-	

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S. Basu, M.Sc., F.N.I.,
Director General of Observatories

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List of Seismograph stations with their Instruments and Constants

Station	Latitude	Longitude	Height a.s.l. (Metres)	Lithographic foundation	Instrument	Comp.	Period in secs	Static Magnification	Damping ratio	Paper speed mm/min
Bombay	18°54'N	72°49'E	6	Deccan Trap	Milne-Shaw	N	12	350	13:1	16
					Milne-Shaw	E	12	350	23:1	8
					Sprengnether	E	To = Tg = 7 secs			30
Bokaro	23°50'N	85°48'E	-	Rock	Milne-Shaw	N	12	250	20:1	16
					Milne-Shaw	E	12	250	20:1	[illegible]
					Wood-Anderson	E	0.8	960	h=0.8	[illegible]
					Wood-Anderson	N	0.8	1000	h=0.8	60
Calcutta	22°32'N	88°22'E	(1) 7(Milne-Shaw)		Milne-Shaw	E	12	250	20:1	8
			(2) 6(Omori-Ewing)		Wood-Anderson	N	2	870	Critical	30
				Alluvium	Omori-Ewing	N	16	32	-	25.4
					Omori-Ewing	E	21	30	-	25.4
Chatra	26°50'N	87°10'E	161	Sand Stone	Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	N	1	1000	30:1	60
					Benioff	Z	To=0.72	Tg=0.45 secs.	Critical	60
					Wenner-Accelerograph	ZNE	-	-	-	-
Colombo	06°54'N	79°52'E	7	Beach Sand	Milne-Shaw	E	12	250	20:1	-
Dehra Dun	30°19'N	78°02'E	682	Gravel	Wood-Anderson	N	0.8	950	Critical	60
					Wood-Anderson	E	0.8	850	Critical	60
					Milne-Shaw	N	12	250	20:1	8
					Milne-Shaw	E	12	250	20:1	8
Hyderabad	17°26'N	78°27'E	536	Granite	Milne-Shaw	E	12	250	20:1	8
					Milne-Shaw	N	12	250	20:1	8
Kodaikanal	10°14'N	77°28'E	2346	Rock	Milne-Shaw	E	10	250	20:1	8
Madras	13°00'N	80°11'E	15	-	Sprengnether	E	To=Tg=72 secs		Critical	30
New Delhi	28°35'N	77°12'E	207	Massive Quartzite						
Poona	18°32'N	73°51'E	560	Deccan Trap	Sprengnether	Z	To=Tg=1.6		Critical	30
					Wood-Anderson	E	4	1000	20:1	16
					Milne-Shaw	N	12	280	20:1	8
Port Blair	11°40'N	92°43'E	-	-	Wood-Anderson	N	2	1000	20:1	30
					Wood-Anderson	E	0.8	1000	66:1	30
					Milne-Shaw	N	12	350	20:1	8
Shillong	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)	Wood-Anderson	N	0.8	1000	h=0.h=0.8	30
					Wood-Anderson	E	0.8	1000	h=0.8	30
					Milne-Shaw	N	12	250	20:1	8
					Benioff	Z	To=1.0	Tg=0.18	-	60
					Sprengnether	E	To=Tg=6.5		Critical	30
					Wenner Accelerograph	ZNE	-	-	-	-
Tocklai	28°45'N	94°46'E	-	Alluvium	Wood-Anderson	E	0.8	970	h=0.8	60
Vizianagram	18°07'N	83°27'E	-	-	Wood-Anderson	E	0.8	1000	h=0.8	30
					Wood-Anderson	N	2	1000	20:1	30

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
March 1957						
01	POONA	Z	e	07 42 47		Tremor
01	SHILLONG	Z	i	10 21 57		Slight, local
01	SHILLONG	Z	eP	12 04 56		Slight, near
01	Epc: 29.2°N, 80.2°E. India Nepal Border. - H = 15h 40m 09s (Shillong) 29½°N, 79¾°E. - H = 15h 40m 06s (Quetta and B.C.I.S). Felt at Mukteswar.					
	DEHRA DUN	N,E	eP	15 40 39	200	Slight
		N	Pg	40 42		
			PP	40 46		
			PPP	40 52		
			iS	41 02		
			S*	41 03		
			Sg	41 05		
			SS	41 15		
			SSS	41 25		
	NEW DELHI	N	eP	15 40 57	310	Slight
			iS	41 32		
			SS	41 42		
	CHATRA	E	eP	15 42 06		Slight
			i	44 00		
	SHILLONG	Z	eP	15 42 48	1200	Slight, distant
		E	eS	44 51		
	BOKARO	N,E	eS	15 42 51		Slight
			e	44 41		
	MADRAS	E	eS	15 47 10		Feeble
	HYDERABAD	E	e	15 47 38		
		N	e	47 47		
02	Epc: 18½°N, 78°W. Jamaica. - H = 00h 27m 33s (U.S.C.G.S) and (B.C.I.S). Magnitude = 6¾(Pasadena), 6.7(Tambaya), 6.5(Uppsala, Kiruna), 6.3(Skalnate Pleso), 6(Moscow).					
	SHILLONG	Z	e	00 46 46		
	HYDERABAD	N	ePKP1	00 46 51	15260	
			PP	49 53		
			PKS2	50 47		
			SKS2	54 17		
		E	SS	01 07 56		
		N	SS	07 59		
			Lr	31 59		
			M	44 20		Per. = 19 secs μ = 7
		E	M	44 35		Per. = 18 secs μ = 6
	POONA	Z	ePKP1	00 46 53		
			e	49 30		
			i	50 30		
		N	e	52 13		
			e	56 28		
			e	01 07 19		
	DEHRA DUN	N,E	e	00 48 47		
			i	53 56		
			i	58 48		
			i	01 08 35		
	BOMBAY	E	e	00 49 26		
			e	50 31		
			e	52 10		
			i	56 10		
			e	59 08		
			e	01 00 04		
			e	01 30		
			e	04 30		
			e	07 04		
			e	55 21		
	MADRAS	E	e	00 51 00		
			e	01 52 00		
02	POONA	Z	eP	01 43 04		Tremor

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
March 1957						
02 Contd.	COLOMBO	E	P	01 47 21		
			e	02 44 11		
			e	50 31		
	SHILLONG	Z	i	01 55 13		Slight
	CHATRA	E	eP	01 55 52		Slight
			i	56 25		
02	SHILLONG	Z	iP	06 44 34		Slight, distant
	BOMBAY	N,E	e	06 51 07		
	POONA	Z	iP	06 51 13		Very feeble
02	SHILLONG	Z	iP	06 53 19		Slight Compression
02	SHILLONG	Z	iP	07 10 59		Slight Compression
	POONA	Z	iP	07 16 55		Tremor
	DEHRA DUN	N,E	e	07 17 17		Feeble. Phase
			i	26 43		not clear
02	Epc: 6°S, 151°E. Near South Coast of New Britain. - H = 08h 10m 24s (U.S.C.G.S).					
	SHILLONG	Z	iP	08 21 10		Slight Compression
	POONA	Z	iP	08 22 36	8830	Feeble
		E	eS	32 37		
	CHATRA	Z	e	08 21 40		Feeble, distant
	BOMBAY	N,E	eP	08 22 44	9350	Slight
			eS	33 09		
		E	M	09 01 00		
	DEHRA DUN	N,E	e	08 22 45		Feeble. Phases not clear
02	SHILLONG	Z	eP	08 49 53		Slight, distant
02	POONA	Z	iP	09 16 26		Tremor
02	POONA	Z	iP	15 43 05	1340	Slight
			eS	45 22		
02	SHILLONG	Z	iP	18 48 42		Slight, distant
03	SHILLONG	Z	iP	01 00 31		Slight, local Other phases not clear.
03	CHATRA	Z	iP	01 01 31	880	Feeble
			iS	03 12		
03	SHILLONG	Z	iP	03 51 26		Slight, Dilatation
03	SHILLONG	Z	e	05 32 39		Tremor
03	CHATRA	Z	iP	13 48 28	190	Slight
		E	iS	48 51		
03	CHATRA	Z	iP	15 32 46	70	Slight
		E	iS	32 56		
03	SHILLONG	Z	iP	21 00 34		Slight Dilatation
	POONA	Z	iP	21 01 57		Feeble
03	SHILLONG	Z	eP	23 53 37		Slight Compression
04	SHILLONG	Z	iP	00 30 30		Slight Compression
04	Epc: Kirghis. - H = 03h 29m 03s (B.C.I.S).					

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DATE	STATION	COMPT	PHASE	G. M. T. h m. s	Δ km	REMARKS
March 1957						
04	SHILLONG Contd		eP	[illegible] 33		Slight Compression
	DEHRA DUN	N S	e	02 33 04		Tremor
	POONA	E	-	03 50 03		Feeble. Other phases not clear
04	CHATRA	Z	iP	17 17 20	210	Feeble
			iS	17 45		
04	SHILLONG	Z	i	17 26 49		Slight. local
	CHATRA	Z	iP	17 27 46	510	Slight
			iS	29 30		
05	Epc 33°N 144½°W North Atlantic Ocean					
	H 12h 24m 25s (U.S.C.G.S).					
	Magnitude 6¼(Pasadena) 6¼(Lwiro) 5¾(Moscow)					
	DEHRA DUN	N E	e	24 26 18		Phases not clear
	BOMBAY	N	e	42 27		
		E	e	42 19		
			i	45 13		
			e	50 08		
	COLOMBO	E	e	43 55		
			e	43 25 50		
			e	29 29		
	HYDERABAD	E	e	28 24 27		
		N		24 03		
05	SHILLONG	Z	iP	30 24 35		Slight. distant Compression
05	SHILLONG	Z	eP	36 56 58		Tremor
05	SHILLONG	Z	iP	39 26 01		Feeble. distant Compression
05	SHILLONG	Z	eP	46 56 [illegible]		Slight. distant Compression
06	SHILLONG	Z	eP	08 39		Feeble. distant
05	SHILLONG	Z	eP	06 22		Feeble. distant
06	SHILLONG	Z	iP	11 36 08		Slight. distant Compression
06	SHILLONG	Z	eP	15 36 14		Feeble. distant
06	CHATRA	Z	iP	19 20 06	190	Feeble
			iS	20 29		
06	SHILLONG	Z	eP	22 [illegible] 14		Feeble. distant
07	SHILLONG	Z	eP	10 [illegible] 45		Distant. feeble
07	SHILLONG	Z	eP	17 37 18		Distant. feeble
07	SHILLONG	Z	eP	21 46 29		Distant. feeble Compression
07	SHILLONG	Z	eP	22 [illegible] 38		Tremor Compression
06	CHATRA	Z	eP	22 23	430	Slight
		E	iP	23 10		
08	Epc 40°N 29°E Eastern Greece					
			H	12h 24m 10s (Shillong)		
	39.5°N 23.2°E		H	12h 24m 14s (B.C.I.S)		
	39½°N 23.2		H	12h 24m 12s (U.S.C.G.S)		
	Magnitude 6.5(Uppsala, Kiruna) 6¾(Strasbourg), 6½(Praha Moscow Hurbanovo) 6.3(Roma), 6(Skalnate Pleso)					
	NEW DELHI	N	iP	12 22 39	4900	Direction of first motion North
			[illegible]	26 27		
		P[illegible]		28 04		
		[illegible]		29 13		
		[illegible]		31 35		
		SS		32 35		
		SSS		33 38		
		[illegible]		35 25		

DATE	STATION	COMPT	PHASE	G. M. T. h m. s	Δ km	REMARKS
March 1957						
08	DEHRA DUN	N E	eP	12 22 42	4930	
		N	PP	24 32		
			eS	29 17		
			PPS	29 38		
			SS	33 08		
			Lq	33 37		
			Lr	35 24		
			M	39 57		
	BOMBAY	N E	eP	12 22 55	5370	Foreshock of the succeeding main shock. Superimposed by another shock
			PP	24 50		
			eS	29 55		
	POONA	Z	iP	12 23 00	5440	Initial ground movement towards North and West
			PP	24 57		
			eS	30 04		
	HYDERABAD	E N	iP	12 23 32		
		N	e	24 56		
		N E	i	30 32		
		N	e	32 19		
		N E	i	32 32		
		N	e	34 51		
			e	40 58		
		E	e	42 04		
	BOKARO	N E	eP	12 23 48		Other phases doubtful
		N	i	30 47		
	KODAIKANAL	E	iP	12 24 02		Initial ground movement towards East. Per. 15 secs
			i	31 02		
			M	35 17		
	MADRAS	E	eP	12 24 02	5360	Moderate
			eS	31 01		
			ScS	33 27		
			SS	34 24		
			SSS	35 58		
			Lr?	38 00		
			M	40 50		
	SHILLONG	Z N E	iP	12 24 11	6550	Compression
		N E	iS	32 17		First motion South and East
	COLOMBO	E	P	12 24 26		
			e	31 22		
			e	57 18		
			M	13 00 50		Amp 1.2 mm
08	Epc 39 5°N 22.8°E Eastern Greece					
			H	12h 21m 14s (B.C.I.S)		
	39.5°N 23°E		H	12h 21m 08s (U.S.C.G.S)		
	3 dead many injured and moderate property damage at Farsala Larissa and Volos. Magnitude 6.7(Strasbourg Uppsala, Kiruna) 6.7(Praha Hurbanovo) 6.6(Roma) 6.3(Skalnate Pleso) 6¼(Pasadena).					
	BOMBAY	N E	iP	12 29 52	5370	Moderate
			PP	31 45		Superimposed on the earlier shock.
			iS	36 52		
		E	PPS	37 39		
			ScS	38 36		
		N E	SS	40 33		
		E	SSS	42 15		
			M	51 22		Per. 17 secs
		N	M	52 29		
	POONA	Z	iP	12 30 01	5440	Aftershock, phases mixed up.
			PP	31 58		
			eS	37 05		
	CHATRA	Z	eP	12 30 40		
		E	e	38 28		
	SHILLONG	Z	iP	12 31 11	6450	
		E	iS	39 11		
08	SHILLONG	Z	eP	14 16 36		Slight

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
March 1957								
08	SHILLONG	Z	eP	20	47	54		Slight
08	Epc: 39.5°N, 22.8°E. Eastern Greece, aftershock of previous great shock of Eastern Greece. - H = 23h 35m 11s (B.C.I.S) Magnitude = 6¼(Strasbourg), 6.2(Uppsala, Kiruna), 6.1(Kew), 6(Athens, Roma).							
	DEHRA DUN	N,E	e	23	43	34		Slight.Phases
			e		53	59		not clear
	BOMBAY	N,E	eP	23	43	49	5370	After shock
			PP		45	41		
			eS		50	49		
	POONA	Z	iP	23	43	55	5490	After shock
			PP		45	52		
		E	eS		51	02		
	SHILLONG	Z	iP	23	45	07	6550	
		E	iS		53	13		
09	HYDERABAD	E	e	00	06	03		
		N	e		06	12		
09	SHILLONG	Z	eP	04	36	42		Slight
09	SHILLONG	Z	eP	07	12	59		Slight
09	SHILLONG	Z	eP	07	28	30		Slight
09	SHILLONG	Z	eP	14	18	56		Slight
09	EPC: 51°N, 173°W. Andreanof Islands, Aleutian Islands. - H = 14h 22m 17s (Shillong) 51½°N, 175½°W. - H = 14h 22m 30s (Moscow) 51.3°N, 175.8°W.-H = 14h 22m 27s (U.S.C.G.S). Magnitude = 8.4(Shillong, Praha, Skalnate Pleso), 8.3 (Roma, Hurbanova), 8¼(Uppsala, Kiruna). Seismic Sea Wave caused destruction of two villages and $ 3,00,00 damage on Oahu and Kauai.							
	SHILLONG	Z	iP	14	33	50	8110	Direction of the
		N,E	PcP		34	09		first motion is
			PP		36	39		South and West.
			PPP		38	24		
			iS		43	17		
			PS		43	58		
			PPS		44	13		
			SS		48	13		
			SSS		51	20		
			i		53	13		
			i		56	36		
			M	15	02	51		Per. = 17 secs Amp. = 68.5 mm
	CHATRA	Z	eP	14	34	02		
		E	i		34	57		
			e		44	24		
	DEHRA DUN	N,E	eP	14	34	16	8670	
		N	PP		37	27		
			PPP		39	19		
			iS		44	10		
			PS		45	24		
			PPS		45	57		
			SS		49	53		
			SSS		53	13		
			Lq		56	13		
			Lr	15	00	16		
			M		07	04		
	BOKARO	N,E	iP	14	34	24	8800	Other phases not
			iS		44	24		identifiable due to overlapping of phases.
	NEW DELHI	N	iP	14	34	30	9090	Direction of
			i		34	50		first motion
			PP		37	45		North
			PPP		39	43		
			i		41	46		
			iS		44	43		
			PcS		45	03		
			PS		46	30		
			SS		50	39		
			SSS		54	13		
			Lq		57	05		
			Lr	15	00	46		
			M		08	20		
09	HYDERABAD	E,N	iP	14	35	08	9630	Initial ground
		N	PP		38	24		movement towards
		E,N	iS		45	45		West and South
		E	SS		51	22		other phases
		N	M	15	06	42		over lapped.
		E	M		06	44		
	POONA	Z	iP	14	35	17	10110	Initial ground
		E	PP		39	04		movement towards
			PPP		41	13		South and West.
			SKKS1		45	57		Compression.
			eS		56	13		
			PS		47	33		
			PPS		48	18		
			SS		52	18		
			SSS		55	20		
			Lq	15	00	20		
	BOMBAY	N,E	eP	14	35	19	10140	
			PP		39	06		
		E	PPP		41	00		
		N	PPP		41	23		
		N,E	iS		46	16		
		E	PS		47	25		
		N,E	PPS		48	00		
		E	SS		52	14		
			Lq	15	00	22		
			Lr		03	44		
	MADRAS	E	iP	14	35	23		Phases could not be identified.
	KODAIKANAL	E	eP	14	35	44	10360	
			PP		39	41		
			PPP		41	47		
			S		46	50		
			PS		48	26		
			PPS		49	20		
			SS		53	41		
			SSP		53	50		
			SSS		57	29		
			Lq	15	03	08		
			Lr		07	50		
			M		16	02		Per. = 24 secs μ = 71.4
	COLOMBO	E	P	14	35	48		
			i		46	56		
			e	15	09	21		
			e		21	21		
09	SHILLONG	Z	iP	15	49	46		Slight
	POONA	Z	i	15	51	16		Feeble
09	SHILLONG	Z	iP	15	52	55		Slight
09	DEHRA DUN	N,E	e	15	54	40		Feeble.Phases not clear
09	POONA	Z	iP	15	54	42		Moderate
09	POONA	Z	iP	15	58	16		Moderate
09	SHILLONG	Z	iP	16	16	36		Slight
09	SHILLONG	Z	iP	16	17	55		Slight
	POONA	Z	i	16	19	17		Feeble
09	SHILLONG	Z	iP	16	27	55		Slight
	POONA	Z	e	16	29	21		Slight
09	POONA	Z	i	16	31	53		Feeble
09	SHILLONG	Z	iP	16	33	01		Slight
	POONA	Z	i	16	34	31		Feeble
09	SHILLONG	Z	iP	16	36	38		Slight
	POONA	Z	i	16	38	06		Feeble
09	SHILLONG	Z	iP	16	41	27		Slight
09	SHILLONG	Z	iP	16	43	54		Slight
	POONA	Z	i	16	43	55		
09	POONA	Z	i	16	45	22		Slight

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DATE	STATION	COMPT	PHASE	G. h	M. m	T. s	Δ km	REMARKS
March 1957								
09	POONA	Z	e?	16	48	50		Feeble
09	SHILLONG	Z	iP	16	51	05		Slight
09	SHILLONG	Z	iP	16	56	46		Slight
	POONA	Z	i	16	58	15		Tremor
09	POONA	Z	i	16	58	59		Tremor
09	SHILLONG	Z	iP	17	02	04		Slight
09	SHILLONG	Z	iP	17	21	45		Slight
	POONA	Z	i	17	23	10		Slight
			i		23	23		
09	SHILLONG	Z	iP	17	31	56		Slight
09	SHILLONG	Z	iP	17	40	54		Slight
09	SHILLONG	Z	iP	17	42	29		Slight
09	POONA	Z	i	17	43	56		Tremor
09	POONA	Z	e	17	51	40		Feeble
09	POONA	Z	eP	17	56	10		Slight
09	SHILLONG	Z	eP	18	03	15		Slight
	POONA	Z	e	18	04	39		Feeble
09	POONA	Z	i	18	07	10		Feeble
09	SHILLONG	Z	iP	18	09	20		Slight
09	SHILLONG	Z	eP	18	15	45		Slight
09	SHILLONG	Z	eP	18	24	04		Slight
09	SHILLONG	Z	eP	18	25	23		Slight
09	POONA	Z	i	18	27	01		Feeble
09	SHILLONG	Z	iP	18	29	10		Slight
09	SHILLONG	Z	eP	18	33	39		Slight
	POONA	Z	i	18	34	35		Feeble
09	POONA	Z	i	18	41	28		Feeble
09	SHILLONG	Z	iP	18	57	41		Slight
	POONA	Z	iP	18	59	08		Feeble
09	SHILLONG	Z	eP	19	05	00		Slight
09	SHILLONG	Z	iP	19	10	01		Slight
	POONA	Z	iP	19	11	28		Slight
09	SHILLONG	Z	iP	19	24	01		Slight
09	SHILLONG	Z	eP	19	25	17		Slight
	POONA	Z	iP	19	26	40		Slight
09	SHILLONG	Z	iP	19	31	00		Slight
	POONA	Z	i	19	32	20		Feeble
09	BOMBAY	E	e	19	38	27		
09	SHILLONG	Z	eP	19	46	31		Slight
	POONA	Z	i	19	47	54		Feeble
09	Epc: 51°N, 173°W. Andreanof Islands in Aleutians. H = 19h 37m 31s (U.S.C.G.S)							
	SHILLONG	Z	iP	19	49	01	8070	Slight
		E	eS		58	25		
	POONA	Z	iP	19	50	27	10080	Moderate
		E	eS	20	01	22		
09	BOMBAY	N E	eP	19	50	29		Slight
		E	e		50	35		
		N E	e	20	01	12		
09	SHILLONG	Z	iP	19	56	18		
09	SHILLONG	Z	iP	20	07	40		
09	Epc: 51°½ N, 170°½ E Fox Islands in the Aleutians. H = 20h 00m 56s. (U.S.C.G.S)							
	SHILLONG	Z	eP	20	12	37		
	CHATRA	Z	i	20	12	49		Feeble, distant
	POONA	Z	i	20	14	02		Feeble.
	BOMBAY	N E	eP	20	14	03	10000	Slight
		E	eS		24	55		
		N E	eS		25	06		
		E	SS		31	00		
09	POONA	Z	e	20	20	05		Feeble
09	Epc: 52°N, 169½°W. Fox Islands in the Aleutians. H = 20h 22m 02s (U.S.C.G.S)							
	SHILLONG	Z	eP	20	23	48	8150	Slight
			eS		43	17		
	DEHRA DUN	N E	e	20	34	09		Tremor
	POONA	Z	iP	20	35	11		Slight
	BOMBAY	N	eP	20	35	12	10390	Slight
		N E	SKS_1		45	58		
09	SHILLONG	Z	iP	20	43	46		
	CHATRA	Z	iP	20	43	58		Slight
			i		44	41		
	NEW DELHI	N	eP	20	44	35	8910	Moderate
			iS		54	40		
			Lq	21	06	58		
			Lr		10	54		
			M		17	41		
	POONA	Z	e	20	45	08		Feeble
09	POONA	Z	i	20	45	57		Slight
09	Epc: 52½°N, 169½°W. Fox Islands in Aleutians. H = 20h 39m 15s (U.S.C.G.S) Magnitude = 7.4(Hurbanova), 7.3(Skalnate Pleso), 7(Uppsala, Kiruna, Kew).							
	SHILLONG	Z	iP	20	50	59	8260	Initial ground
		N,E	PcP		51	14		movement towards
			PP		53	44		South and West.
			PPP		55	29		
			iS	21	00	33		
			PS		01	03		
			PPS		01	18		
			SS		05	11		
			SSS		08	26		
			Lq		10	19		
			Lr		13	49		
			M		19	49		Per. = 30 secs
								Amp. = 15 mm.
	CHATRA	Z	i	20	51	12		Distant
	DEHRA DUN	N,E	eP	20	51	22	8780	
		N	PP		54	16		
			PPP		56	12		
			iS	21	01	21		
			PPS		02	18		
			SS		06	48		
			SSS		09	47		
			Lr		12	38		
			M		16	50		
	BOKARO	N,E	iP	20	51	26	8800	Probably after
		N	iS	21	01	26		shock of the
								previous one.
	NEW DELHI	N	iP	20	51	35	9130	
			PP		54	40		
			i	21	01	35		
			iS		01	50		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 1957		
09 Contd.	NEW DELHI Contd.	N	PS	21 02 27		
			PPS	02 46		
			SS	06 58		
			SSS	10 52		
			Lq	14 50		
			M	31 43		Per.=21 secs A=106
	HYDERABAD	E N	iP	20 52 16	9480	Initial ground movement towards South and West
		N	PP	55 18		
			PPP	57 57		
			SKS1	21 02 25		
		E N	iS	02 25		
		N	PPS	04 07		
			SS	08 13		
			SSS	12 03		
			PKKS1	12 58		
		E	Lr	17 58		
		N	Lr	18 13		
			M	21 52		Per.=18 secs A=81
		E	M	26 07		Per.=17 secs A=61
	POONA	Z	iP	20 52 21	10080	
		E	eS	21 03 16		
	BOMBAY	N E	eP	20 52 22	10100	
		E	e	52 29		
		N E	PP	56 00		
		E	PPP	57 18		
		N E	SKS1	21 02 58		
			eS	03 18		
			PS	04 36		
		E	PPS	05 00		
		N E	SS	09 57		
		E	Lq	16 52		
		N	M	37 24		Per.=19 secs A=71
		E	M	37 36		Per.=19 secs A=79
	MADRAS	E	eP	20 52 25		Phases not clear
			i	21 03 00		
	KODAIKANAL	E	eP	20 52 42	10670	
			SKS	21 03 19		
			e	05 12		
			e	09 33		
			e	13 09		
			e	17 39		
			e	22 03		
			M	29 39		Per.=18 secs A=36.7
	COLOMBO	E	P	20 52 51		
			e	21 03 29		
			e	27 51		
			e	32 26		
09	SHILLONG	Z	iP	21 09 13		Slight
	POONA	Z	i	21 09 33		Feeble
09	SHILLONG	Z	iP	21 27 13		Slight
09	SHILLONG	Z	eP	21 31 57		Slight
09	SHILLONG	Z	eP	21 46 20		Slight
09	SHILLONG	Z	iP	21 53 14		Slight
09	SHILLONG	Z	iP	21 59 24		Slight
09	SHILLONG	Z	eP	22 06 27		Slight
09	SHILLONG	Z	eP	22 08 11		Slight
	CHATRA	Z	i	22 08 22		Feeble.near
	POONA	Z	iP	22 09 38		Slight
09	SHILLONG	Z	eP	22 15 25		Slight
09	SHILLONG	Z	iP	22 25 12		Slight
09	SHILLONG	Z	eP	22 33 18		Slight
09	SHILLONG	Z	iP	22 35 29		Slight
09	SHILLONG	Z	iP	22 54 05		Slight
09	SHILLONG	Z	eP	23 11 08	8300	Slight
		E	iS	20 44		
09 Contd.	CHATRA	Z	i	23 11 21		Feeble near
	POONA	Z	eP	23 12 34		Slight
	BOMBAY	E	eP	23 12 34	10000	Slight
		N E	eS	23 26		
09	SHILLONG	Z	iP	23 16 54		Slight
09	SHILLONG	Z	iP	23 18 40		Slight
	POONA	Z	iP	23 20 05		Feeble
	BOKAPO	N E	i	23 21 38		Tremor Probably faintly recorded after shock of the previous one
	POONA	Z	i	23 22 28		Feeble
09	SHILLONG	Z	eP	23 24 19		Slight
09	POONA	Z	i	23 25 48		Feeble
09	SHILLONG	Z	iP	23 30 47		Slight
09	SHILLONG	Z	iP	23 32 22		Slight
	POONA	Z	:	23 33 50		Feeble
09	POONA	Z	i	23 35 06		Slight
09	SHILLONG	Z	e	23 36 37		Feeble
09	SHILLONG	Z	eP	23 49 39		Slight
	POONA	Z	e	23 50 46		Feeble
10	SHILLONG	Z	iP	00 09 10		Slight
	POONA	Z	e	00 10 40		Feeble
10	SHILLONG	Z	iP	00 18 17		Slight
10	SHILLONG	Z	iP	00 22 56		Slight
	POONA	Z	iP	00 24 35		Slight
10	SHILLONG	Z	eP	00 29 13		Slight
10	SHILLONG	Z	eP	00 51 45		Slight
	POONA	Z	i	00 53 13		Feeble
10	SHILLONG	Z	iP	01 02 01		Slight
10	SHILLONG	Z	eP	01 05 26		Slight
10	SHILLONG	Z	iP	01 12 12		Slight
10	SHILLONG	Z	iP	01 18 33		Slight
10	SHILLONG	Z	eP	01 21 46		Slight
10	SHILLONG	Z	eP	01 25 28		Slight
10	SHILLONG	Z	iP	01 28 29		Slight
	POONA	Z	eP	01 29 54		Feeble
10	SHILLONG	Z	iP	01 33 51		Slight
	POONA	Z	e	01 35 12		Feeble
10	SHILLONG	Z	eP	01 39 37		Slight
10	SHILLONG	Z	eP	01 54 52		Slight
10	SHILLONG	Z	iP	02 34 13		Slight
	POONA	Z	i	02 35 35		Feeble
10	SHILLONG	Z	iP	02 42 27		Slight
10	SHILLONG	Z	eP	02 45 01		Slight
10	SHILLONG	Z	eP	02 46 46		Slight
10	POONA	Z	i	02 49 12		Feeble
10	SHILLONG	Z	eP	03 03 23		Slight
	POONA	Z	i	03 05 34		Feeble

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March 1957

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
March 1957						
1⁰	Epc: 50°N, 175°W. in the Aleutians - H = 03h 08m 10s (Shillong) 52°N. 176°W. - H = 03h 06m 02s (U.S.C.G.S. Magnitude 6½-6¾(Pasadena, Berkely), 6¾(Moscow, Praha, Hurbanova, Roma), 6.7(Kew), 6.8(Uppsala, Kiruna, Skalnate Pleso).					
	SHILLONG	Z	iP	03 17 41	8090	Compression. Initial ground movement towards South and West.
		N, E	PcP	18 00		
			PP	20 30		
			iS	27 07		
			PS	27 37		
			PPS	27 52		
			SS	31 52		
			SSS	35 07		
			Lq	37 00		
			Lr	40 30		
			M	46 30		Per. ±17 5 secs Amp. - 3 mm
	CHATRA	Z	iP	03 17 52	8550	Slight
		E	iS	27 40		
	DEHRA DUN	N, E	eP	03 17 58	867⁰	Other phases not clear
		N	PP	20 52		
			iS	27 52		
			PPS	28 46		
	BOKARO	N, E	iP	03 18 14	8710	Initial ground movement towards South and West.
		N	e	21 42		
			iS	28 10		
			Lq	38 52		
			Lr	42 22		
			M	48 37		
	NEW DELHI	N	eP	03 18 20	8800	Superimposed by near shock
			e	21 04		
			iS	28 20		
			M	49 10		Per. ±19 secs U ±43
	HYDERABAD	N	iP	03 19 04	926⁰	Initial ground movement towards South
			PP	21 58		
			PPP	24 34		
			iS	29 25		
			ScS	29 38		
			PPS	30 36		
			SS	35 43		
			PKKP1	36 55		
			SSS	38 13		
			PKKS1	36 55		
			SSS	40 10		
			Lr	45 34		
			M	51 14		Per. ±18 secs U ±43
	POONA	Z	iP	03 19 06	9890	
		E	eS	29 53		
	BOMBAY	N, E	eP	03 19 07	9910	
			PP	21 58		
			e	22 10		
		E	PPP	24 33		
			SKS	29 34		
		N, E	iS	29 55		
			ScS	30 12		
		E	PS	31 43		
			M	04 00 09		Per. ±17 secs U ±16
		N	M	01 28		Per. ±19 secs U ±38
	MADRAS	E	eP	03 19 13	10000	
			PP	22 25		
			eSKS	29 41		
			PS	30 50		
			eP?	35 33		
			eS?	40 13		
	KODAIKANAL	E	eP	03 19 34		
	COLOMBO	E	~P	03 19 39	10560	
			SKS	30 09		
			L	04 00 --		
			M	03 51		Amp. ±0.9 mm
1⁰	POONA	Z	iP	03 21 57	9810	Moderate
		E	eS	32 41		
1⁰	Epc: 36.3°N, 73°E. -H= 03h 30m 12s (Shillong) Felt at Srinagar.					

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
10 Contd	DEHRA DUN	N, E	eP	03 32 24	910	Slight
		N	PP	32 32		
			PPP	32 38		
			iS	33 58		
			SS	34 11		
			Lr	34 4		
			SSS	34 22		
			Sg/M	34 49		
	NEW DELHI	N	iP	03 32 35	980	Slight
			PPP	32 50		
			iS	34 16		
			SS	35 28		
	CHATRA	Z	iP	03 34 10	1770	Moderate
		E	iS	37 07		
	POONA	Z	iP	03 34 26	2000	Slight
		E	eS	37 45		
	SHILLONG	Z, N, E	iP	03 34 53	2260	Slight
		N, E	iS	38 37		
1⁰	SHILLONG	Z	eP	04 02 37		Slight
1⁰	SHILLONG	Z	iP	04 06 06		Slight
	POONA	Z	i	04 07 29		Feeble
1⁰	SHILLONG	Z	iP	04 26 41		Slight
10	SHILLONG	Z	eP	04 33 17		Slight
1⁰	SHILLONG	Z	iP	04 41 54		Slight
1⁰	SHILLONG	Z	eP	04 45 29		Slight
10	SHILLONG	Z	iP	04 47 53		Slight
1⁰	POONA	Z	e	04 47 59		Feeble
10	CHATRA	Z	iP	04 48 06	280	Slight
			iS	48 38		
1⁰	SHILLONG	Z	iP	04 48 35		Slight
	POONA	Z	e	04 49 21		Feeble
1⁰	POONA	Z	iP	04 50 01	9810	Slight
		E	eS	05 00 45		
	BOMBAY	N, E	e	04 50 03		Very slight
			e	05 00 44		
1⁰	SHILLONG	Z	iP	04 52 47		Slight
10	SHILLONG	Z	iP	05 00 53		Slight
10	SHILLONG	Z	iP	05 44 59		Slight
10	CHATRA	Z	iP	05 45 11	110	Feeble
			iS	45 26		
10	POONA	Z	iP	05 46 25		Feeble
10	SHILLONG	Z	eP	05 54 16		Slight
10	SHILLONG	Z	eP	06 10 42		Slight
10	SHILLONG	Z	eP	06 15 10		Slight
10	SHILLONG	Z	iP	06 17 51		Slight
10	SHILLONG	Z	eP	06 26 54		Slight
10	SHILLONG	Z	iP	06 32 39		Slight
10	SHILLONG	Z	iP	06 35 22		Slight
10	SHILLONG	Z	eP	07 05 15		Slight
10	SHILLONG	Z	iP	07 11 43		Slight
10	SHILLONG	Z	iP	07 17 49		Slight

International Seismological Centre

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 1957		
10	POONA	Z	e	07 19 15		Feeble
10	SHILLONG	Z	iP	07 23 58		Slight
10	SHILLONG	Z	iP	07 34 42		Slight
10	CHATRA	Z	iP	07 34 54	140	Slight
			iS	35 12		
10	POONA	Z	iP	07 36 10		Feeble
10	SHILLONG	Z	iP	07 43 21		Slight
	POONA	Z	i	07 44 31		Feeble
10	SHILLONG	Z	iP	08 05 59		Slight
10	SHILLONG	Z	eP	08 43 08		Slight
10	SHILLONG	Z	eP	08 53 11		Slight
10	SHILLONG	Z	eP	09 02 12		Slight
10	SHILLONG	Z	iP	09 16 02		Slight
10	SHILLONG	Z	iP	09 32 49		Slight
10	SHILLONG	Z	iP	09 35 09		Slight
10	SHILLONG	Z	iP	09 37 01		Slight
10	SHILLONG	Z	eP	08 49 35		Slight
10	SHILLONG	Z	iP	10 02 35		Slight
10	SHILLONG	Z	iP	10 24 20		Slight
10	POONA	Z	i	10 25 47		Feeble
10	SHILLONG	Z	eP	10 27 47		Slight
10	SHILLONG	Z	iP	10 48 31		Slight
	POONA	Z	i	10 49 56		Feeble
10	Epc: 52°N, 171°W. in the Aleutians - H = 11h 20m 45s (U.S.C.G.S)					
	SHILLONG	Z	iP	11 32 25		Slight
	CHATRA	E,N	e	11 32 39		Feeble, near
	DEHRA DUN	N,E	eP	11 32 47	8710	Slight, other
		N	iS	42 43		phases not
			PS	43 20		clear
			M	12 03 42		
	NEW DELHI	N	eP	11 33 00	8800	Moderate
			eS	43 00		
	HYDERABAD	E,N	iP	11 33 42	9410	Moderate
			iS	44 10		
			SKS1	44 25		
		N	SS	50 07		
			PKKK1	51 16		
		E	M	12 07 07		Per. ±15 secs
						μ ±6
		N	M	09 13		Per. ±16 secs
						μ ±16
	KODAIKANAL	E	e	11 33 45		Tremor
	POONA	Z	iP	11 33 53	9890	Slight
		E	eS	44 40		
	BOMBAY	N,E	eP	11 33 53		Slight
			e	44 20		
			e	44 36		
		E	e	44 56		
		N	M	12 10 28		Per. ±20 secs
						μ ±3
		E	M	16 25		Per. ±17 secs
						μ ±6
	MADRAS	E	e	11 33 55		Slight and
			e	44 23		distant
10	SHILLONG	Z	iP	11 38 27		Slight
	COLOMBO	E	P	11 38 36		
			e	44 51		
			e	12 21 51		
			e	24 41		
10	SHILLONG	Z	eP	11 42 03		Slight
10	SHILLONG	Z	iP	11 46 35		Slight
10	SHILLONG	Z	iP	11 58 06		Slight
10	SHILLONG	Z	iP	11 59 14		Slight
	POONA	Z	i	12 00 41		Feeble
10	POONA	Z	i	12 01 41		Feeble
10	MADRAS	E	e	12 23 00		Slight,
			e	33 27		distant
10	SHILLONG	Z	iP	12 23 40		Slight
10	POONA	Z	eP	12 25 14		Slight
10	SHILLONG	Z	iP	12 47 44		Slight
10	CHATRA	E,N	e	12 48 09		Feeble, near
	DEHRA DUN	N,E	e	12 48 23		Tremor
	POONA	Z	eP	12 49 11		Slight
10	SHILLONG	Z	eP	12 55 36		Slight
10	DEHRA DUN	N,E	e	12 58 20		Feeble
	POONA	Z	i	12 58 23		Feeble
10	Epc: 50½°N, 180°E. in the Aleutians					
	SHILLONG	Z,N,E	iP	13 21 21	7790	Slight
		N,E	eS	30 32		
	CHATRA	E,N	e	13 21 39		Feeble, near
	DEHRA DUN	N,E	eP	13 21 48	8530	Slight, other
		N	PPP	26 25		phases not
			iS	31 35		clear
			SS	36 56		
			M	53 29		
	POONA	Z	eP	13 22 55	9670	Slight
		E	eS	33 33		
	BOMBAY	N,E	eP	13 23 02	9780	Slight
			SKS	33 34		
		N	eS	33 45		
			PS	34 56		
		E	M	14 00 04		Per. ±15 secs
						μ ±7
		N	M	00 11		Per. ±15 secs
						μ ±5
	KODAIKANAL	E	e	13 23 27		Tremor
10	SHILLONG	Z	iP	13 30 45		Slight
	COLOMBO	E	P	13 33 53		
			L	03 21		
			M	06 41		Amp. ± 0.2 mm
10	Epc: 51½°N, 179°W. Andreanof Islands in Aleutians - H = 13h 28m 30s (U.S.C.G.S) Mag: 6½(Uppsala, Kiruna), 6.2 (Kew, Praha).					
	SHILLONG	Z	iP	13 39 43		
	POONA	Z	iP	13 41 15		
	BOMBAY	N,E	eP	13 41 16	9510	
			eS	51 48		
10	SHILLONG	Z	iP	13 48 48		Slight
10	SHILLONG	Z	iP	13 57 13		Slight
10	SHILLONG	Z	iP	14 01 03		Slight
10	DEHRA DUN	N,E	e	14 06 12		Feeble, phases
			i	07 22		not clear
10	SHILLONG	Z	iP	14 08 58		Slight
10	POONA	Z	e	14 12 20		Feeble
10	SHILLONG	Z	iP	14 20 43		Slight
10	SHILLONG	Z	iP	14 41 02		Slight
10	SHILLONG	Z	iP	14 55 41		Slight
10	SHILLONG	Z	iP	14 57 21		Slight
10	SHILLONG	Z	iP	15 01 00		Slight
10	SHILLONG	Z	iP	15 21 58		
10	SHILLONG	Z	iP	15 16 33		Slight

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March 1957

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
10 Contd.	CHATRA	E	eP	15 36 50		Slight
		N	i	38 26		
10	Epc: 52°N, 173°W. Andreanof Islands in Aleutians. - H = 15h 26m 23s (U.S.C.G.S)					
	Mag: 6¾(Berkeley), 6.5 (Praha, Strasbourg)					
	SHILLONG	Z,N,E	iP	15 37 57	8090	
		E	PcP	38 17		
			iS	47 22		
	POONA	Z	i	15 37 57		
	DEHRA DUN	N,E	eP	15 38 20	8610	
		N	PP	41 11		
			iS	48 11		
			PPS	49 12		
			SS	53 06		
			Lq	59 02		
			M	16 09 19		
	BOKARO	N,E	iP	15 38 24	8710	Initial ground movement towards South and West.
			iS	48 20		
	NEW DELHI	N	iP	15 38 30	8800	
			iS	48 30		
			SS	53 39		
			SSS	57 39		
			Lr	16 03 43		
			M	10 39		
	HYDERABAD	E,N	iP	15 39 12	9320	Initial groond movement towards South and West
		N	PP	42 41		
			PPP	44 23		
		E,N	iS	49 36		
			ScS	49 54		
		N	PPS	50 53		
			PKKKI	56 56		
			SSS	58 56		
		E	Lr	16 06 21		
		N	Lr	06 53		
		E	M	12 38		Per. ±18 secs μ ±16
		N	M	13 45		Per. ±18 secs μ ±18
	POONA	Z	iP	15 39 21	9890	
		E	S	50 08		
	BOMBAY	N,E	eP	15 39 21	9890	
			eS	50 08		
			ScS	50 21		
		N	M	16 21 21		Per. ±19 secs μ ±11
		E	M	24 16		Per. ±19 secs μ ±11
	MADRAS	E	eP	15 39 24		
			e	49 51		
	KODAIKANAL	E	eP	15 39 45		
			e	50 30		
			M	16 15 06		
	COLOMBO	E	eP	15 39 51		
			e	50 21		
			e	16 21 06		
			M	26 36		Amp ±1.0 mm
10	SHILLONG	Z	iP	15 50 19		Slight
10	SHILLONG	Z	eP	15 55 13		Slight
10	SHILLONG	Z	eP	15 57 27		Slight
10	SHILLONG	Z	iP	16 00 29		Slight
10	SHILLONG	Z	eP	16 11 16		Slight
10	SHILLONG	Z	eP	16 19 11		Slight
10	SHILLONG	Z	eP	16 27 37		Slight
10	SHILLONG	Z	eP	16 39 58		Slight
10	SHILLONG	Z	iP	16 41 44		Slight
10	SHILLONG	Z	iP	16 42 51		Slight
	POONA	Z	i	16 44 16		Feeble
10	Epc: 51½°N, 173½°W Andreanof Islands in the Aleutians - H = 16h 37m 45s (U.S.C.G.S)					
	Mag: 6.1 (Christchurch), 6.0 (Kew).					
	SHILLONG	Z	iP	16 49 20		
	CHATRA	E	eP	16 49 36		
			i	51 36		
	POONA	Z	i	16 50 44	9930	Slight
10	Epc: Aleutians Region. - H = 16h 39m 08s (B.C.I.S)					
	SHILLONG	Z	iP	16 51 19		Slight
	BOMBAY	E	eP	16 52 31	10250	Slight
		N	eS	52 46		
		N,E	eS	17 03 32		
	POONA	Z	iP	16 52 44		Slight
		E	e	17 03 33		
10	SHILLONG	Z	eP	16 58 22		Slight
10	SHILLONG	Z	eP	17 29 45		Slight
10	SHILLONG	Z	eP	17 35 20		Slight
10	SHILLONG	Z	eP	17 50 56		Slight
10	SHILLONG	Z	iP	17 57 04		Slight
	POONA	Z	e	17 58 32		Feeble
10	SHILLONG	Z	iP	18 03 22		Slight
10	SHILLONG	Z	iP	18 08 29		Slight
	BOMBAY	N,E	e	18 09 14		Slight
10	SHILLONG	Z	eP	18 15 09		Slight
10	SHILLONG	Z	iP	18 31 02		Slight
10	SHILLONG	Z	iP	18 33 17		Slight
10	SHILLONG	Z	iP	18 34 40		Slight
10	SHILLONG	Z	eP	19 04 21		Slight
10	SHILLONG	Z	eP	19 13 12		Slight
10	SHILLONG	Z	iP	19 22 51		Slight
10	SHILLONG	Z	eP	19 26 31		Slight
10	SHILLONG	Z	iP	19 26 27		Slight
10	SHILLONG	Z	eP	19 29 49		Slight
10	POONA	Z	i	19 31 18		Feeble
10	DEHRA DUN	N,E	e	19 39 56		Feeble
10	BOMBAY	N,E	e	19 42 03		
10	SHILLONG	Z	eP	19 48 13		Slight
10	Epc: 52°N, 173°W. Andreanof Islands in Aleutians - H = 19h 40m 55s (U.S.C.G.S)					
	SHILLONG	Z	iP	19 52 27		Slight
	POONA	Z	i	19 53 53		Feeble
	BOMBAY	N,E	eP	19 54 05	9910	Slight
			SKS	20 04 38		
		E	eS	04 53		
10	SHILLONG	Z	eP	20 01 54		Slight
10	SHILLONG	Z	eP	20 16 52		Slight
10	SHILLONG	Z	eP	20 22 54		Slight
10	SHILLONG	Z	eP	20 33 17		Slight
10	SHILLONG	Z	iP	20 45 48		Slight
10	SHILLONG	Z	eP	20 48 18		Slight
10	SHILLONG	Z	iP	20 59 19		Slight
10	SHILLONG	Z	iP	21 08 50		Slight

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March 195?

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
10	SHILLONG	Z	eP	21	1?	25		Slight
10	SHILLONG	Z	eP	21	22	15		Slight
10	SHILLONG	Z	iP	21	55	44		Slight
10	SHILLONG	Z	iP	22	03	02		Slight
10	SHILLONG	Z	iP	22	10	44		Slight
10	SHILLONG	Z	iP	22	23	09		Slight
10	SHILLONG	Z	eP	23	23	00		Slight
10	SHILLONG	Z	eP	23	27	09		Slight
10	SHILLONG	Z	eP	23	29	10		Slight
10	SHILLONG	Z	iP	23	48	02		Slight
10	SHILLONG	Z	eP	23	54	05		Slight
11	SHILLONG	Z	eP	00	08	35		Slight
	POONA	Z	i	00	09	57		Feeble
11	SHILLONG	Z	eP	00	17	17		Slight
11	SHILLONG	Z	iP	00	19	52		Slight
11	BOMBAY	N,E	e	00	21	08		
11	POONA	Z	i	00	21	16		Feeble
11	DEHRA DUN	N,E	e	00	30	10		Feeble
11	SHILLONG	Z	iP	01	17	57		Slight
11	SHILLONG	Z	iP	01	39	51		Slight
11	SHILLONG	Z	iP	02	02	44		Slight
	POONA	Z	i	02	04	08		Feeble

11 Epc: 52°N, 177°W. Andreanof Islands in the Aleutians
- H = 03h 12m 43s (Shillong)
51°N, 177°W. - H = 03h 12m 41s (U.S.C.G.S)
Mag. 7.1 (Roma, Praha), 7 (Berkeley)

SHILLONG	Z,N,E	iP	03	24	02	7850	Rarefaction Initial ground movement East and North.
	N,E	PcP		24	13		
		PP		26	47		
		PPP		28	37		
		iS		33	16		
		SKS		33	53		
		PS		34	02		
		PPS		34	14		
		SS		38	06		
		SSS		41	18		
		Lq		43	25		
	E	M		51	02		
	N	M		51	02		Per. ≈22.5 Secs μ ≈ 6.0 mm
CHATRA	Z	iP	03	24	13	8330	
	E	iS		33	51		
DEHRA DUN	N,E	eP	03	24	29	8470	
	N	PP		27	27		
		PPP		28	49		
		iS		34	13		
		PS		34	49		
		PPS		35	15		
		SS		39	05		
		SSS		42	12		
		Lq		44	55		
BOKARO	N,E	iP	03	24	32	8550	Initial ground movement towards South and West
	N	iS		34	20		
		PPS		35	50		
		SSS		42	52		
		Lq		45	30		
		Lr		49	13		
		M		55	13		Per. ≈26 secs μ ≈87
COLOMBO	E	P	03	25	20		
		e		36	55		
		e	04	06	20		
		e		13	05		
KODAIKANAL	E	eP	03	25	31		
		e		35	31		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
11 Contd.	HYDERABAD	E	eP	03	25	2?	9820	
			PPP		31	02		
			SKS1		35	52		
			iS		36	14		
			PS		37	14		
			PPS		37	54		
			SS		41	39		
			SSS		45	29		
			PKKS1		46	25		
			Lq		48	56		
			SKKS2		49	48		
			Lr		53	35		
			SKKS		54	34		
			M		59	20		Per ≈19 secs μ ≈37
	POONA	Z	iP	03	25	3?	9?80	
		E	eSKS		36	0?		
			eS		36	15		
	BOMBAY	N,E	eP	03	25	32	9980	
			PP		29	00		
		E	PPP		30	21		
		N,E	SKS1		36	04		
			eS		36	23		
			ScS		36	33		
		N	PS		36	49		
		E	PS		37	17		
			PPS		38	1?		
		N,E	SS		41	55		
		E	SSS		45	41		
		N	M	04	02	39		Per. ≈19 secs μ ≈45
		E	M		02	49		Per. ≈21 secs μ ≈50
	MADRAS	E	eP	03	25	32	9980	
			PP		29	29		
			eSKS		36	04		
			eS		36	23		
			i		39	05		
			SS		42	00		
			Lq		48	12		
			M?	04	04	36		
11	POONA	Z	e	03	37	50		Feeble
11	SHILLONG	Z	iP	03	46	22		Slight, distant
11	SHILLONG	Z	eP	03	56	01		Slight, local
11	SHILLONG	Z	iP	04	06	46		Slight, distant
11	SHILLONG	Z	iP	04	16	33		
	POONA	Z	e	04	18	01		Feeble
11	NEW DELHI	N	iP	05	11	03	8730	Moderate. Initial ground movement towards South
			PP		14	07		
			i		17	42		
			iS		21	00		
			SS		25	49		
			Lq		32	27		
			M		42	01		Per. ≈22 secs μ ≈102
			Mr		49	09		
11	SHILLONG	Z	iP	05	39	31		Slight
11	SHILLONG	Z	eP	06	41	31		Slight
11	SHILLONG	Z	eP	06	54	36		Slight
11	SHILLONG	Z	eP	07	03	35		Slight
11	Epc: 51°N, 177°W in Aleutians - H = 07h 08m 00s (U.S.C.G.S)							
	SHILLONG	Z	iP	07	19	21		Slight
	POONA	Z	eP	07	20	46		Feeble
	BOMBAY	N,E	eP	07	20	52	9980	Slight
		E	SKS		31	28		
		N,E	eS		31	43		
11	SHILLONG	Z	iP	07	50	22		Slight
	CHATRA	Z	eP	07	50	34		Slight
		E	i		50	43		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	△ km	REMARKS
11	POONA	Z	e	07	51	48		Feeble
11	SHILLONG	Z	eP	07	58	31		Slight
11	CHATRA	Z	iP	08	10	10		Slight
		E	i		10	35		
11	SHILLONG	Z	eP	08	32	46		Slight
11	SHILLONG	Z	eP	08	38	58		Slight
11	SHILLONG	Z	eP	08	49	05		Slight
	POONA	Z	e	08	50	28		Feeble
11	SHILLONG	Z	iP	08	54	09		Slight
11	SHILLONG	Z	iP	08	58	19		Slight
11	SHILLONG	Z	eP	09	53	55		
11	SHILLONG	Z	eP	09	57	39		Slight, distant

11 Epc: 50°N, 172°W. in the Aleutians
- H = 09h 58m 50s (Shillong)
53°N, 164½°W - H = 09h 58m 42s (U.S.C.G.S)
52¾°N, 170°W. -H = 09h 58m 44s (B.C.I.S)
Mag: 7.3 (Skalnate Pleso, Hurbanovo), 7¼ (Moscow), 7-7¼ (Praha, Berkeley).

SHILLONG	Z,N,E	iP	10	10	27	8200		Compression
	N,E	PcP		10	37			Initial ground
		PP		13	21			movement towa-
		PPP		14	07			rds West and
		iS		19	58			South.
		SKS		20	15			
		ScS		20	22			
		PS		20	38			
		PPS		20	55			
		SS		24	51			
		SSS		28	03			
		Lq		30	25			
CHATRA	E	eP	10	10	37	8670		
		iS		20	21			
DEHRA DUN	N,E	eP	10	10	47	8710		
	N	PP		13	44			
		iS		20	43			
		PPS		21	17			
		SS		26	24			
		SSS		28	37			
		Lq		32	18			
		Lr		35	36			
		M		42	27			Per. ±17 secs
								μ ±53
BOKARO	N,E	iP	10	10	58	8780		Initial ground
	N	PP		13	52			movement towa-
		iS		20	57			rds South and
		i		21	13			West.
		PPS		21	51			
		Lq		32	02			
		Lr		35	41			
		M		39	41			Per. ±34 secs
								μ ±315
BOMBAY	N,E	eP	10	11	49	9950		
	E	PP		15	26			
	N	PP		15	30			
	E	PPP		17	32			
	N,E	SKS1		22	20			
		eS		22	39			
	E	e		22	48			
	N	e		23	03			
	E	PS		23	34			
	N,E	PPS		24	00			
	E	SS		28	13			
	N	e		29	19			
	E	e		29	26			
		SSS		32	28			
	N	M		54	45			Per. ±19 secs
								μ ±50
	E	M		57	03			Per. ±19 secs
								μ ±62
POONA	Z	eP	10	11	50	10000		
	E	eSKS		22	23			
	N	Mn		55	--			Per. ±21 secs
								μ ±82
MADRAS	E	eP	10	11	55			
		e		15	36			
		i		18	20			
		e		22	25			
		e		23	22			
		e		24	12			

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	△ km	REMARKS
11 Contd.	MADRAS	E	e	10	28	21		
	Contd.		e		32	00		
			e		34	30		
			e		52	51		
	KODAIKANAL	E	iP	10	12	19		Initial ground
			e		23	07		movement towa-
			e		49	52		rds West.
								Per. ±21 secs
								μ ±52.6
	COLOMBO	E	P	10	12	20		
			e		23	00		
			e		50	40		
			e		56	05		

11 Epc: 2°N, 97°E. Off Coast of Sumatra
- H = 12h 09m 10s (U.S.C.G.S)
Mag: 6.4 (Uppsala, Kiruna).

BOKARO	N,E	eP	12	13	31			
		e		18	52			
MADRAS	E	eP	12	13	53	2200		
		PP		14	09			
		PPP		14	22			
		iS		17	31			
		SS		18	00			
		SSS		18	21			
		Lr		18	45			
		M		20	00			
11 Contd.	SHILLONG	Z	iP	12	14	26	2690	Compression, ini-
			iS(?)		18	42		tial ground move-
								ment towards West
	CHATRA	E	eP	12	14	52	3080	
			iS		19	34		
	POONA	Z	eP	12	15	08		
	BOMBAY	N,E	eP	12	15	18		
			e		20	08		
	DEHRA DUN	N,E	eP	12	15	54	3680	
		N	iS		21	14		
			Lq/SS		22	35		
			SSS		23	31		
			Lr		24	28		
			M		27	13		
	COLOMBO	E	e	12	18	36		
			e		22	21		
11	SHILLONG	Z	eP	12	48	55		Slight
11	SHILLONG	Z	iP	14	24	33		

11 Epc: 51°N, 180°E. in the Aleutians
- H = 14h 55m 23s (Shillong)
51½°N, 178½°W. -H = 14h 55m 19s (U.S.C.G.S)
Mag: 7.3 (Praha), 7-7¼ (Berkeley), 7.1(Skalnate Pleso, Hurbanova)

SHILLONG	Z,N,E	iP	15	06	33	7690		Compression. Ini
	N,E	PcP		07	00			tial ground move
		PP		09	07			ment towards
		PPP		10	42			South and West
		iS		15	39			
		PS		16	06			
		PPS		16	14			
		SKS		16	31			
		SS		19	51			
		SSS		22	47			
		Lq		23	59			
		Lr		27	13			
		M		33	07			Per. ±22.5 secs
								μ ± 5.5 mm
CHATRA	E	iP	15	06	45	8090		
		iS		16	11			
DEHRA DUN	N,E	eP	15	07	00	8150		
	N	PP		09	49			
		iS		16	29			
		PS		17	02			
		SS		22	02			
		SSS		24	41			
		Lq		26	38			
		Lr		29	36			
		M		35	19			
BOKARO	N,E	iP	15	07	05	8290		Initial ground
	N	PP		09	47			movement towa-
		PPP		11	37			rds South and
		iS		16	41			West

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X March 1957

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 1957		
11 Contd.	BOKARO	N	SKS	15 16 57		
			Lq	26 41		
			Lr	30 41		
			M	36 31		Per. 26 secs μ 87
	NEW DELHI	N	iP	15 07 12	8350	Initial ground movement towards South
			PP	10 05		
			PPP	11 57		
			i	13 10		
			iS	16 51		
			SS	21 53		
			Lq	26 47		
			M	36 51		
			Mn	45 05		Per. 23 secs μ 72
	HYDERABAD	E	iP	15 07 54	9210	Initial ground movement towards West
			PP	11 13		
			PPP	13 12		
			iS	18 13		
			PS	19 10		
			PPS	19 49		
			SS	23 18		
			PKKP1	25 48		
			SSS	27 33		
			PKKS	29 42		
			Lq	30 57		
			SKKS	33 02		
			Lr	34 49		
			M	42 15		Per. 18 secs μ 71
	BOMBAY	N,E	iP	15 08 03	9520	
			PP	11 26		
			PPP	13 23		
		E	e	16 21		
		N,E	SKS1	18 26		
		E	i	18 37		
		N	i	18 40		
		E	PS	19 28		
			PPS	19 47		
		N	SS	24 31		
		E	SS	24 50		
			SSS	28 07		
			Lq	31 25		
		N	M	48 45		Per. 21 secs μ 64
		E	M	48 58		Per. 21 secs μ 62
	POONA	Z	iP	15 08 04		
			e	18 36		
	MADRAS	E	eP	15 08 06	9560	
			PP	11 29		
			iSKS	18 31		
			PS	19 54		
			PPS	20 34		
			SS	24 18		
			Lq	31 44		
			M	46 50		
	KODAIKANAL	E	iP	15 08 28		Initial ground movement towards West
			e	18 55		
			M	44 04		Per. 18 secs μ 29.4
	COLOMBO	E	P	15 08 33		
			e	19 01		
			e	49 51		
			e	56 06		
11	CHATRA	E	e	15 17 25		Surface waves
11	SHILLONG	Z	iP	15 47 06		Slight
	DEHRA DUN	N,E	e	15 47 35		Tremor
	POONA	Z	iP	15 48 38	9490	Slight
		E	eS	59 09		
11	SHILLONG	Z	eP	16 13 50		Slight, distant
11	SHILLONG	Z	eP	16 28 20		Slight, distant
11	SHILLONG	Z	eP	16 41 53		Feeble, distant
11	SHILLONG	Z	eP	16 55 53		Feeble, distant
11	SHILLONG	Z	eP	17 08 55		Very feeble, distant
11	SHILLONG	Z	eP	18 11 39		Very feeble, distant
11	SHILLONG	Z	eP	19 09 26		Slight, distant
11	SHILLONG	Z	eP	19 26 53		Very feeble, distant
11	SHILLONG	Z	eP	20 07 48		Very feeble, distant
11	SHILLONG	Z	eP	20 13 54		Slight, distant
11	SHILLONG	Z	eP	20 33 47		Very feeble, distant
11	SHILLONG	Z	iP	21 28 28		Slight, distant
11	SHILLONG	Z	iP	21 49 53		Slight, distant
11	SHILLONG	Z	eP	21 51 35		Slight, distant
11	SHILLONG	Z	eP	21 59 19		Slight, distant
11	SHILLONG	Z	eP	23 43 36		Slight, distant
11	SHILLONG	Z	iP	23 53 04		Very feeble, distant
12	SHILLONG	Z	iP	00 03 27		Feeble, distant
12	SHILLONG	Z	eP	00 20 12		Very feeble, distant
12	SHILLONG	Z	iP	00 29 51		Feeble, distant
	CHATRA	Z	iP	00 59 13		Feeble
			i	01 1?		
12	SHILLONG	Z	iP	01 1? 02		Slight, distant
12	SHILLONG	Z	iP	01 58 09		Slight, distant
	POONA	Z	iP	01 59 30		Slight
12	SHILLONG	Z	eP	02 34 37		Slight
12	SHILLONG	Z	iP	03 59 26		Slight
12	SHILLONG	Z	iP	04 54 27		Slight
12	SHILLONG	Z	iP	05 23 54		Slight
12	SHILLONG	Z	iP	06 09 41		
12	CHATRA	E	eP	06 12 02	450	Feeble
			eS	12 51		
12	Epc: 51½°N, 173½°W. In the Aleutians = H = 07h 28m 46s (U.S.C.G.S) Mag: 6¾-7(Berkeley), 6¾(Roma), 6.6(Skalnate Pleso), 6.4(Praha).					
	SHILLONG	Z	iP	07 40 19	8070	
		E	iS	49 44		
	CHATRA	E	e	07 40 33		
	DEHRA DUN	N,E	eP	07 40 44	8470	
		N	PP	43 35		
			iS	50 28		
			PPS	51 17		
			SS	56 08		
			Lq	08 00 13		
			M	10 17		
	BOKARO	N,E	iP	07 40 49	8670	Initial ground movement towards South and West
		N	PP	43 45		
			iS	50 43		
			i	08 00 42		
			Lq	01 50		
			M	11 52		Per. 25 secs μ 44
	HYDERABAD	N,E	iP	07 41 39	9240	Initial ground movement towards West and South
		N	PP	45 03		
		N,E	iS	51 59		
			ScS	52 16		
			PPS	53 06		
		N	SS	57 12		
			PKKS	08 02 20		
		N,E	Lq	04 21		
		N	SKKS2	06 39		
			Lr	08 24		
			SKKS	11 00		
			M	16 24		Per. 17 secs μ 30
		E	M	16 27		Per. 18 secs

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
12 Contd.	BOMBAY	N,E	eP	07 41 43	9550	
			SKS	52 14		
			eS	52 33		
			i	52 51		
			SSS	08 02 37		
		N	M	23 45		Per. ±19 secs
						μ ±20
		E	M	26 09		Per. ±19 secs
						μ ±14
	POONA	Z	iP	07 41 48		
		E	e	52 36		
	MADRAS	E	eP	07 41 48		
			e	52 15		
			e	08 18 00		
	KODAIKANAL	E	P	07 42 11		Initial ground movement towards West
			e	52 47		
			e	08 18 02		
12	CHATRA	E	eP	07 50 12		
			i	08 00 06		
12	Epc: 52°N, 178°W. In the Aleutians - H = 07h 39m 17s (U.S.C.G.S) Mag: 6½ (Uppsala, Kiruna)					
	SHILLONG	Z,N,E	iP	07 50 33	8090	Compression
		N,E	PcP	51 07		
			iS	59 45		
			PS	08 00 00		
			PPS	00 23		
			SKS1	00 41		
			SS	04 03		
			SSS	07 00		
			Lq	08 23		
			Lr	10 47		
			M	16 51		Per. ±18.7 secs
						μ ± 1.75
	POONA	Z	iP	07 52 06	9580	Slight
		E	eS	08 02 41		
	COLOMBO	E	e	08 03 31		
			e	25 51		
			e	29 41		
12	SHILLONG	Z	iP	08 14 29		Slight
	POONA	Z	iP	08 16 03		Slight
12	SHILLONG	Z	iP	08 29 17		Slight
12	SHILLONG	Z	eP	08 40 53		Slight
12	SHILLONG	Z	eP	08 58 13		Slight
12	SHILLONG	Z	iP	09 33 04		Slight
12	SHILLONG	Z	eP	10 49 01		Feeble
12	SHILLONG	Z	iP	10 50 01		Slight
12	SHILLONG	Z	eP	11 12 09		Slight
12	SHILLONG	Z	iP	11 51 24		Slight, felt locally.
	POONA	Z	iP	11 51 29		Feeble
12	CHATRA	E	e	11 53 42		Feeble, near
12	Epc: 51°N, 177°W. In the Aleutians - H = 11h 44m 50s (U.S.C.G.S) Mag: 7·5(Hurbanova), 7½(Strasbourg,Moscow), 7·7¼ (Pasadena).					
	SHILLONG	Z,N	iP	11 56 07	7930	Compression
		N	PcP	56 22		
			PP	58 52		
			PPP	12 00 29		
			i(?)	00 59		
			iS	05 25		
			PS	05 44		
			PPS	06 03		
			SS	10 00		
			SSS	13 04		
			Lq	14 38		
			Lr	17 57		
			M	24 12		Per. ±22.5 secs
						μ ±8
	CHATRA	E	eP	11 56 14		
			i	12 05 52		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
12 Contd.	DEHRA DUN	N,E	eP	11 56 46	8300	
		N	PP	12 00 01		
			PPP	01 45		
			iS	05 22		
			PS	05 45		
			SS	11 33		
			SSS	14 39		
			Lq	16 51		
			Lr	19 58		
			M	26 51		Per. ±1[illegible]
						μ ±6
	BOKARO	N,E	iP	11 56 4[illegible]	8400	Initial ground
		N	pP	57 14		movement towards North and
			PP	59 43		East
			PPP	12 01 46		
			iS	06 29		
	NEW DELHI	N	iP	11 56 58		
			i	12 06 38		
			e	07 08		
			e	11 39		
			e	15 05		
			e	17 32		
			e	20 40		
			M	25 41		
			Mn	38 02		Per. ±17 secs
						μ ±[illegible]
	HYDERABAD	E,N	iP	11 57 34	9280	Initial ground
		N	PP	12 01 04		movement towards North and
			PPP	03 16		East.
		E,N	iS	07 56		
			ScS	08 24		
		N	PS	09 08		
			SS	13 31		
			SSS	17 46		
			PKKS1	19 01		
		E,N	Lq	21 09		
		N	SKKS2	22 22		
		E,N	Lr	25 13		
		E	M	31 10		Per. ±15 secs
						μ ±50
		N	M	31 34		Per. ±16 secs
						μ ±56
	POONA	Z	iP	11 57 40		
		E	e	12 08 23		
		N	e	34 --		
	BOMBAY	N,E	eP	11 57 43	9[illegible]50	
		E	PP	12 01 19		
			PPP	03 28		
		N,E	SKS1	08 1[illegible]		
			iS	08 25		
		E	PS	09 12		
			PPS	09 32		
			SS	13 51		
		N	SS	14 05		
		E	SSS	17 27		
			M	37 07		Per. ±19 secs
						μ ±42
		N	M	37 20		Per. ±18 secs
						μ ±53
	MADRAS	E	eP	11 57 49	9290	
			PP	12 01 16		
			iS	08 13		
			PS	09 07		
			SS	13 58		
			M	38 20		
	COLOMBO	E	e	11 58 06		
			e	12 02 21		
			e	08 43		
			e	37 39		
			e	42 21		
12	BOKARO	N	e	12 07 13		
			e	17 10		
			e	20 50		
			e	26 39		Per. ±30 secs
						μ ±200
12	SHILLONG	Z	iP	12 14 21		Slight
12	SHILLONG	Z	iP	12 57 56		Slight
	DEHRA DUN	N,E	e	12 58 19		Tremo.
	POONA	Z	eP	12 59 21		Slight
12	SHILLONG	Z	eP	14 43 29		Slight
12	SHILLONG	Z	eP	15 17 23		Feeble

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
								March 1957
12	SHILLONG	Z	iP	15	30	03		Feeble
			i		31	48		
12	SHILLONG	Z	eP	15	41	36		Feeble
12	SHILLONG	Z	eP	15	52	38		Slight
12	SHILLONG	Z	eP	15	55	35		Slight
12	SHILLONG	Z	iP	16	14	28		Slight
12	SHILLONG	Z	iP	16	44	37		Slight
12	SHILLONG	Z	eP	16	46	17		Slight
			i(?)		46	41		
12	SHILLONG	Z	iP	17	00	10		Slight
12	SHILLONG	Z	iP	17	11	51		
	POONA	Z	iP	17	13	19		Feeble
12	SHILLONG	Z	eP	18	04	22		Feeble
			i(?)		04	29		
12	SHILLONG	Z	iP	18	32	26		Slight, distant
12	SHILLONG	Z	eP	18	36	37		Slight, distant
12	SHILLONG	Z	eP	20	04	55		Feeble, distant
12	SHILLONG	Z	eP	20	12	26		Feeble, distant
12	SHILLONG	Z	eP	20	19	26		Feeble
12	SHILLONG	Z	eP	20	50	36		Feeble
12	SHILLONG	Z	eP	21	19	27		Very feeble
12	SHILLONG	Z	eP	21	31	18		Feeble
12	SHILLONG	Z	eP	21	42	45		Very feeble
	POONA	Z	eP	21	42	47		Feeble
12	SHILLONG	Z	eP	22	03	04		Slight
12	SHILLONG	Z	eP	22	11	21		Very feeble
12	SHILLONG	Z	eP	22	31	54		Feeble
			i(?)		38	51		
12	SHILLONG	Z	iP	23	56	57		Slight
12	POONA	Z	iP	23	58	26	9890	Slight
12	POONA	Z	iP	23	58	39	9910	Slight
13	POONA	E	eS	00	09	23		
13	POONA	E	eS	00	09	29		
13	CHATRA	Z	iP	02	32	09	90	Slight
			iS		32	24		

13 Epc. 52°N, 171½°W. In the Aleutians
- H = 02h 48m 20s (U.S.C.G.S)
Mag: 6.2(Wellington, Christchurch), 6.1(Uppsala, Kiruna).

	SHILLONG	Z	eP	02	59	54		Distant
			i(?)	03	00	01		
	HYDERABAD	E,N	iP	03	01	17	9370	
			iS		11	43		
		N	Lr		29	07		
			M		35	17		Per. ≈21 secs
								μ ≈10
		E	M		36	24		Per. ≈18 secs
								μ ≈ 5
	POONA	Z	iP	03	01	24	9860	
		E	eS		12	10		
	BOMBAY	N,E	eP	03	01	25	9890	Slight
		N	e		01	45		
		N,E	SKS1		11	51		
			eS		12	12		
		E	M		40	32		Per. ≈19 secs
								μ ≈ 3
13	SHILLONG	Z	iP	03	09	34		Slight, distant
13	SHILLONG	Z	eP	03	18	59		Slight, distant
13	SHILLONG	Z	iP	03	44	26		Slight, distant, compressi
	CHATRA	Z	e	03	44	34		
13	POONA	Z	iP	03	45	52		Feeble
13	SHILLONG	Z	eP	06	48	21		Feeb
13	SHILLONG	Z	eP	07	08	41		V ble
13	SHILLONG	Z	iP	07	33	11		Slight, mpressi n
	POONA	Z	i	07	34	38		Tremo
13	SHILLONG	Z	eP	09	01	47		Slight
	POONA	Z	e	09	03	12		Tremor
13	SHILLONG	Z	iP	09	21	18		Slight
	POONA	Z	i	09	22	40		Tremor
13	SHILLONG	Z	eP	10	35	19		Feeble
13	SHILLONG	Z	eP	11	40	17		Very feeble
13	SHILLONG	Z	eP	11	40	59		Slight
13	SHILLONG	Z	iP	11	49	09		Slight, compression
	POONA	Z	e	11	50	39		Tremor
13	SHILLONG	Z	iP	12	09	33		Slight, compression
	POONA	Z	e	12	10	39		Tremor
13	SHILLONG	Z	iP	12	53	59		Slight, distant
	POONA	Z	e	12	55	12		Tremor
13	SHILLONG	Z	eP	13	12	29		Slight, distant
13	SHILLONG	Z	eP	13	34	19		Feeble, distant
13	SHILLONG	Z	eP	13	47	44		Very feeble, distant
13	SHILLONG	Z	eP	13	56	41		Very feeble
13	SHILLONG	Z	eP	15	00	36		Slight, distant
13	SHILLONG	Z	eP	15	06	27		Very feeble distant
13	SHILLONG	Z	eP	15	14	15		Slight, distant

13 Epc. 51°N, 178½°W. In the Aleutians
- H =15h 24m 10s (Moscow)
Mag: 6.9(Uppsala, Kiruna), 6¾(Pasadena, Moscow, Berkeley, Praha, Roma), 6.6(Skalnate Pleso, Hurbanova).

	SHILLONG	Z,N,E	iP	15	53	21	7790	Compression
		N,E	pP		53	45		
			PcP		53	50		
			PP		55	58		
			PPP		57	34		
			PcS		57	55		
			iS	16	02	27		
			PS		03	01		
			sS		03	11		
			PPS		03	20		
			SKS		03	39		
			SS		06	43		
			SSS		09	13		
			Lq		10	55		
			Lr		13	52		
		N	M		19	32		Per. ≈22.5 secs
		E	M		19	32		μ ≈30
	CHATRA	E	eP	15	53	34	7890	
			iS	16	02	52		
	DEHRA DUN	N,E	eP	15	53	49	8180	
		N	PP		56	52		
			iS	16	03	19		
			SS		08	28		
			Lq		13	09		
			Lr		17	07		
			M		22	00		
	BOKARO	N,E	iP	15	53	52	8290	Initial ground
		N	PcP		54	09		movement towa-
			pP		54	19		rds North and
			iS	16	03	28		East.

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
					March 1957			
13 Contd.	BOKARO Contd.	N	SS	16	04	15		
			M		21	55		Per. ≃34 secs μ ≃74
	NEW DELHI	N	eP	15	53	57	8340	
			iS	16	03	35		
			SS		08	25		
			Lr		17	08		
			M		25	20		
	COLOMBO	E	e	15	54	16		
			e	16	05	46		
			e		35	01		
			e		39	06		
	HYDERABAD	N,E	iP	15	54	43	9210	Initial ground movement towards North and East
		N	PP		58	15		
			PPP	16	00	06		
		N,E	iS		05	02		
		N	ScS		05	33		
		N,E	PS		06	02		
			PPS		06	37		
		N	SS		10	39		
			PKKP1		12	21		
			SSS		14	16		
			PKKS1		16	21		
		N,E	Lq		17	45		
		E	Lr		21	49		
		N	Lr		22	08		
			M		27	09		Per. ≃15 secs μ ≃27
		E	M		28	28		Per. ≃18 secs μ ≃22
	POONA	Z	iP	15	54	51		
	BOMBAY	N,E	eP	15	54	52	2500	
			SKS	16	05	11		
			eS		05	27		
		E	PS		06	18		
		N,E	SS		11	00		
		N	M		35	13		Per. ≃23 secs μ ≃22
		E	M		35	35		Per. ≃23 secs μ ≃17
	MADRAS	E	eP	15	54	53		
			e		58	22		
			iS	16	05	14		
			e		06	27		
			e		11	21		
			e		34	04		
	KODAIKANAL	E	eP	15	55	14		
			e	16	05	44		
			e		06	44		
			e		07	14		
			e		30	00		
13	SHILLONG	Z	eP	16	21	15		Slight, distant
13	SHILLONG	Z	iP	16	34	15		Slight, local
13	SHILLONG	Z	eP	17	02	48		Feeble, distant
13	SHILLONG	Z	iP	17	55	18		Slight, distant compression
	POONA	Z	e	17	56	43		Feeble
13	SHILLONG	Z	eP	18	13	07		Tremor, distant
13	SHILLONG	Z	iP	18	44	49		Slight, distant Rarefaction
13	SHILLONG	Z	iP	18	58	35		Slight, distant Rarefaction
13	SHILLONG	Z	eP	19	08	18		Feeble, distant
13	DEHRA DUN	N,E	e	19	11	35		Feeble, phases
			i		21	48		not clear
	SHILLONG	Z	eP	19	11	43		Feeble, distant
13	SHILLONG	Z	iP	19	47	19		Slight, distant
			i(?)		47	43		compression
13	SHILLONG	Z	iP	19	54	52		Slight, local Rarefaction
13	SHILLONG	Z	eP	20	05	54		Very feeble, distant
13	Epc: 54°N, 166°W. In the Aleutians H ≃19h 59m 23s (U.S.C.G.S) Mag: 6.2(Uppsala,Kiruna), 6(Roma), 5¾(Moscow).							
13 Contd.	SHILLONG	Z	iP	20	11	17		Distant Compression
	HYDERABAD	N,E	iP	20	12	33	9920	
		N	SKS1		22	58		
		N,E	iS		23	22		
			ScS		23	41		
		N	PS		24	10		
			M		46	47		Per. ≃20 secs μ ≃8
		E	M		48	22		Per. ≃20 secs μ ≃4
	BOMBAY	N	eP	20	12	35	10110	
		N,E	eS		23	31		
			M		58	--		
	POONA	Z	eP	20	12	36	10190	
		E	eS		23	35		
	COLOMBO	E	-	20	23	36		
			e	21	02	51		
			e		06	36		
13	SHILLONG	Z	iP	22	16	43		Rarefaction
13	SHILLONG	Z	iP	22	54	43		Feeble, distant
13	SHILLONG	Z	eP	23	23	17		Very feeble
14	SHILLONG	Z	eP	00	26	22		Very feeble
14	SHILLONG	Z	eP	00	39	25		Very feeble
14	SHILLONG	Z	iP	00	46	54		Slight, distant Compression
14	SHILLONG	Z	iP	01	18	04		Slight, distant
14	SHILLONG	Z	eP	02	04	05		Slight
14	DEHRA DUN	N,E	e	02	14	51		Tremor
	BOMBAY	N,E	e	02	16	10		Very slight
			e		16	41		
14	SHILLONG	Z	eP	02	58	55		Slight
14	POONA	Z	e	03	00	11		Tremor
14	SHILLONG	Z	eP	03	40	34		Slight
14	SHILLONG	Z	eP	04	11	01		Slight
14	SHILLONG	Z	iP	04	13	03		Slight
14	CHATRA	Z	iP	04	13	51	160	Slight
			iS		14	11		
14	SHILLONG	Z	eP	04	14	27		Slight, local
14	SHILLONG	Z	eP	04	25	06		Very feeble
14	SHILLONG	Z	eP	06	21	43		Tremor
14	SHILLONG	Z	eP	07	15	18		Tremor
14	Epc: 27°N, 87½°E. In Eastern Nepal H ≃ 10h 03m 40s (Shillong) Mag: 5.9 (Shillong) Felt at Siliguri and Kalimpong							
	Chatra	N,E,Z	iP	10	04	05	270	
		N,E	iS		04	36		
	SHILLONG	Z,N,E	iP	10	04	44	450	Rarefaction
		N,E	PP		04	50		
			PPP		04	57		
			Lq		05	19		
			iS		05	32		
			SS		05	43		
			SSS/M		05	55		
	BOKARO	N,E	iP	10	04	46	470	
		E	i		05	56		
			Pg		05	00		
			i		05	16		
			i		05	29		
			S		05	35		
	DEHRA DUN	N,E	eP	10	05	47	880	
		N	iS		07	17		
			SS		07	30		
			Lr		07	32		
			SSS		07	41		
			Sg,M		08	08		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 1957		
14	POONA	Z	iP	10 07 16	1640	Initial ground movement towards West
			eS	10 02		Compression
	BOMBAY	N, E	e	10 07 22		Not. deep
			e	10 38		
			e	12 25		
	MADRAS	E	eP	10 07 25		
			i	10 16		
14	SHILLONG	Z	iP	12 41 21		Slight rarefaction
14	SHILLONG	Z	iP	12 59 20		Slight, rarefaction
14	POONA	Z	e	13 00 43		Tremor
14	SHILLONG	Z	iP	13 14 03		Slight, rarefaction
14	Epc 51½°N. 177°W. In the Aleutians H 14h 47m 45s (U.S.C.G.S.) Mag. 7¼(Pasadena Moscow, Hurbanova), 7.4(Roma, Skalnate Pleso), 7.1 (Uppsala, Kiruna).					
	SHILLONG	Z, N, E	iP	14 55 04	7310	Compression
		N, E	PcP	54 49		First movement West
			PP	15 01 39		
			PPP	03 17		
			PcP	03 31		
			iS	08 21		
			PS	08 44		
			PPS	08 58		
			SKS	09 12		
			SS	13 04		
			SSS	16 06		
			Lq	17 22		
			Lr	20 40		
		N	M	26 24		Per. 18.6 secs
		E	M	26 24		μ 16
	CHATRA	Z	iP	14 59 17		
			i	15 05 00		
	BOKARO	N, E	iP	14 59 35	8350	Initial ground movement towards South and West
		N	PcP	59 44		
			PP	15 02 19		
			PPP	04 11		
			iS	09 14		
			SSS	17 37		
			Lq	20 07		
			Lr	23 49		
			M	29 58		Per. 24 secs
						μ 286
	NEW DELHI	N	iP	14 59 44	8500	Initial ground movement towards South
			PP	15 02 36		
			iS	09 29		
			PS	10 06		
			PPS	10 24		
			i	10 46		
			SS	14 18		
			SSS	17 45		
			M	28 28		
			Mn	38 03		Per. 15 secs
						μ 77
	POONA	Z	iP	15 00 22		
		E	e	11 10		
	HYDERABAD	E, N	iP	15 00 28	9500	
			PP	03 48		
			PPP	05 44		
			iSKS	10 50		
		N	e	16 11		
			e	19 29		
			e	27 41		
		E	M	32 08		Per. 18 secs
						μ 148
		N	M	32 56		Per. 18 secs
						μ 214
	BOMBAY	N, E	eP	15 00 35	9610	
		N	PP	04 06		
		N, E	eS	11 11		
		E	PS	12 08		
		N	PS	12 17		
		E	PPS	12 47		
		N	PPS	13 00		
		E	SS	16 47		
		N	SS	16 56		
		E	SSS	20 13		
		N	SSS	20 17		
			Lr	29 09		
14 Contd.	BOMBAY Contd.	E	M	15 38 28		Per. 18 secs
						μ 136
		N	M	38 35		Per. 19 secs
						μ 195
	MADRAS	E	eP	15 00 38		
			e	04 17		
			e	06 03		
			i	11 14		
			e	12 13		
			e	46 03		
	KODAIKANAL	E	iP	15 00 58		Initial ground movement towards West
			e	04 22		
			e	06 16		
			e	11 34		
			e	13 10		
			e	17 22		
			e	20 52		
			e	36 43		
14	SHILLONG	Z	eP	15 08 09		Slight
14	SHILLONG	Z	iP	15 16 27		Slight
	POONA	Z	e	15 17 53		Slight
14	SHILLONG	Z	eP	15 24 03		Slight
14	POONA	Z	e	15 35 23		Feeble
14	SHILLONG	Z	eP	15 39 24		Slight
	DEHRA DUN	N, E	eP	15 59 32	8260	Moderate
		N	PP	16 02 44		
			PPP	04 26		
			iS	09 06		
			PS	09 47		
			PPS	10 18		
			SS	14 28		
			SSS	17 26		
			Lq	19 29		
			Lr	23 33		
			M	28 11		Per. 20 secs
						μ 137
14	SHILLONG	Z	iP	16 02 21		Slight rarefaction
14	SHILLONG	Z	e	16 03 48		Feeble
14	SHILLONG	Z	iP	16 12 58		Slight
14	POONA	Z	e	17 19 10		Feeble
14	SHILLONG	Z	eP	20 07 53		Slight, distant
14	SHILLONG	Z	iP	20 26 35		Slight, distant
14	SHILLONG	Z	eP	21 51 39		Slight, distant
14	SHILLONG	Z	eP	22 26 03	180	Slight, local
			Sg	26 25		
14	SHILLONG	Z	iP	22 29 42		Slight, distant compression
	POONA	Z	e	22 31 09		Feeble
14	SHILLONG	Z	iP	23 21 31		Slight, compression
14	SHILLONG	Z	eP	23 30 35		Slight
14	SHILLONG	Z	eP	23 51 38		Very feeble, distant
15	SHILLONG	Z	iP	01 17 14		Slight, distant compression
15	Epc 53°N. 167°W. In the Aleutians H 02h 52m 08s (U.S.C.G.S.) H 02h 52m 10s (Moscow) Mag. 6¾(Pasadena), 6.7(Tacubaya), 6½-6¾(M'Bour), 6.6 (Skalnate Pleso).					
	SHILLONG	Z, N, E	iP	03 02 58	7890	Distant, compression, initial ground movement towards West
		N, E	PcP	03 14		
			PP	05 44		
			PPP	07 29		
			iS	12 12		
			SKS	12 47		

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
					March 1957			
15 Contd.	SHILLONG Contd.	N,E	PS/ScS	03	13	03		
			PPS		13	1[illegible]		
			SS		17	13		
			SSS		20	2[illegible]		
			Lq		22	20		
			Lr		26	08		
		N	M		32	22		Per. 26.2 secs
		E	M		32	22		μ = 4.6
	CHATRA	Z	e	03	03	34		
	BOKARO	N,E	i	03	03	47		
			e		14	08		
	DEHRA DUN	N,E	eP	03	04	20	9330	
		N	PP		07	24		
			iS		14	44		
			SS		19	40		
			Lq		27	27		
			M		38	50		
	NEW DELHI	N	iP	03	04	28		
			i		10	56		
			i		14	38		
			e		22	31		
	MADRAS	E	eP	03	04	56	10270	Slight
			eS		15	58		
			M		45	00		
	HYDERABAD	N	i	03	05	14		
			e		08	22		
			i		15	42		
			e		17	14		
			e		21	15		
			e		22	26		
			e		24	14		
			e		26	05		
			e		29	50		
		E	e		32	11		
		N	e		32	17		
		E	e		39	08		
		N	e		39	17		
	POONA	Z	eP	03	05	18	10220	
		E	eS		16	18		
	BOMBAY	N,E	eP	03	05	20	10370	
			SKS		16	03		
		E	SKKS		16	18		
		N,E	eS		16	26		
		E	PS		17	09		
			PPS		17	37		
			Lq		29	32		
			Lr		33	09		
			M		50	41		Per. 18 secs
								μ = 16
		N	M		50	42		Per. 20 secs
								μ = 10
	KODAIKANAL	E	eP	03	05	23		
			e		16	23		
15	SHILLONG	Z	eP	04	04	35		Very feeble, distant
15	SHILLONG	Z	eP	04	23	19		Slight, distant
	CHATRA	Z	i	04	24	31		Feeble, near
	POONA	Z	iP	04	25	47	9730	Slight
		E	eS		36	28		
15	SHILLONG	Z	eP	04	37	39		Slight, distant
15	SHILLONG	Z	iP	05	13	35		Slight
15	SHILLONG	Z	eP	06	08	33		Very feeble
15	SHILLONG	Z	iP	07	06	27		Slight, local
15	SHILLONG	Z	eP	07	43	24		Feeble
15	SHILLONG	Z	iP	12	09	03		Slight, distant rarefaction
	POONA	Z	iP	12	10	28		Feeble
15	CHATRA	Z	eP	13	46	15	210	Feeble
			iS		46	40		
15	SHILLONG	Z	eP	15	24	22		Feeble, distant
15	SHILLONG	Z	iP	16	41	35		Slight, distant compression

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
15 Contd	POONA	Z	e	16	43	00		Feeble
15	SHILLONG	Z	iP	16	39	5[illegible]		Slight, distant compression
15	SHILLONG	Z	eP	18	24	2[illegible]		Very feeble, distant
15	SHILLONG	Z	eP	18	44	50		Very feeble
	CHATRA	Z	iP	19	08	33	200	Slight
			iS		08	5[illegible]		
15	SHILLONG	Z	eP	19	38	34		Feeble, local
			i(?)		09	03		
15	SHILLONG	Z	eP	21	30	32		Slight
15	SHILLONG	Z	eP	22	08	01		Very feeble
15	SHILLONG	Z	iP	22	24	47		Slight, distant compression
	POONA	Z	iP	22	26	14		Feeble
15	SHILLONG	Z	eP	23	14	40		Very feeble, distant
16	SHILLONG	Z	eP	00	04	50		Feeble
16	Epc: 35°N. 53°E. Northern Iran							
				- H = 00h 43m 41s (U.S.C.G.S)				
	33°N. 52½°E. - H = 00h 43m 39s (Moscow)							
	34½°N. 52½°E. - H = 00h 43m 42s (N.C.I.S)							
	DEHRA DUN	N,E	e	00	48	36	2500	Slight
			iS		52	39		
			i		56	51		
	POONA	Z	eP	00	49	09	2880	Slight
		E	eS		52	32		
	CHATRA	Z	e	00	49	59		Feeble, near
	SHILLONG	Z	iP	00	50	35		Slight, rarefaction
	HYDERABAD	E	e	01	01	01		
		N	e		01	05		
	MADRAS	E	e	01	03	00		Feeble
	COLOMBO	E	e	01	06	25		
			e		10	35		
16	CHATRA	Z	e	02	25	01		Feeble, near
	SHILLONG	Z	iP	02	25	52		Slight, compression
	POONA	Z	iP	02	26	17	9780	Slight
		E	eS		37	43		
16	Epc: 52°N. 179°W. In the Aleutians							
				- H = 02h 34m 12s (U.S.C.G.S)				
	51°N. 178°W. - H = 02h 34m 09s (Moscow)							
	Mags: 7.8(Hurbanovo), 7½(Moscow), 7.3(Skalnate Pleso)							
	SHILLONG	Z,N,E	iP	02	4[illegible]	2[illegible]	7890	Compression
		N,E	PcP		45	33		Initial ground
			PP		47	57		movement towards South and
			PPP		49	33		West
			iS		54	4[illegible]		
			PS		55	0[illegible]		
			SKS		55	15		
			PPS		55	41		
			SS		59	41		
			SSS	03	02	41		
			Lq		04	26		
			Lr		07	56		
		N	M		14	04		Per. 22.5 secs
								μ = 8.5 mm
	DEHRA DUN	N,E	eP	02	45	45	8330	
		N	PP		48	46		
			PPP		50	35		
			iS		55	23		
			PPS		56	12		
			SS	03	00	19		
			SSS		03	24		
			Lq		05	26		
			Lr		09	26		
			M		10	01		Per. 20 secs
								μ = 100

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
16 Contd.	CHATRA	E	e	02	45	46		
			i		55	00		
	BOKARO	N,E	iP	02	45	51	8420	Initial ground movement towards South and West
		N	PcP		46	17		
			iS		55	33		
			PS		55	59		
			PPS		56	12		
			M	03	13	55		Per. 25 secs μ .243
		E	M		13	55		Per. 28 secs μ .126
	NEW DELHI	N	iP	02	46	02	8630	Initial ground movemant towards South
			PP		48	58		
			PPP		50	47		
			iS		55	54		
			PS		56	25		
			SS	03	00	46		
			Lq		06	00		
			Lr		09	36		
			M		14	40		Per .22 secs μ .148
	HYDERABAD	E,N	iP	02	46	45	9350	Initial ground movement towards West and South
			PP		50	09		
			PPP		52	25		
			iS		57	10		
		N	SS		57	34		
			PS		58	07		
		E,N	SS	03	03	10		
		N	PKKP1		04	31		
			SSS		06	10		
			SKKS2		11	10		
		E	Lr		12	10		
		N	Lr		13	13		
			SKKKS		16	53		
		E	M		20	01		Per. 18 secs μ .95
		N	M		20	10		Per. 16 secs μ .139
	POONA	Z	iP	02	46	55		
		E	e		57	33		
		N	e	03	28	**		
	BOMBAY	N,E	eP	02	46	57	9590	
			PP		50	26		
			PPP		52	22		
		E	SKS		57	11		
		N,E	eS		57	32		
			ScS		57	47		
		E	PS		58	36		
			PPS		58	54		
		N,E	SS	03	03	05		
		N	e		04	15		
		E	Lq		10	26		
		N	M		27	42		Per. 21 secs μ .194
		E	M		27	57		Per. 21 secs μ .180
	MADRAS	E	eP	02	47	00	9890	
			PP		50	24		
			eSKS		57	37		
			PS		58	21		
			PPS		59	00		
			SS	03	03	10		
			SSS		06	25		
			Lq		09	30		
			M		25	54		
	COLOMBO	E	P	02	47	23		
			e		58	19		
			e	03	27	58		
			e		31	41		
16	SHILLONG	Z	eP	03	13	26		Slight, distant
16	SHILLONG	Z	iP	03	45	30		Slight, distant rarefaction
16	SHILLONG	Z	iP	06	03	43		Slight, distant
16	SHILLONG	Z	eP	06	19	03		Feeble
16	SHILLONG	Z	iP	06	50	56		Slight, compression
16	SHILLONG	Z	eP	07	42	08		Slight, distant compression
16	SHILLONG	Z	eP	09	05	26		Very feeble
16	SHILLONG	Z	eP	09	41	55		Slight, distant compression
	CHATRA	Z	e	09	42	07		Feeble, near
	POONA	Z	i	09	43	03		Feeble
16	CHATRA	Z	iP	10	28	01	430	Slight
			iS		28	47		
	SHILLONG	Z	eP	10	28	37		Slight
			e		28	52		
16	SHILLONG	Z	iP	10	55	34		Slight, distant
16	DEHRA DUN	N,E	e	12	24	31		Feeble, phases not clear
			i		26	01		
	CHATRA	Z	eP	12	26	14	1870	Slight
			iS		29	21		
	SHILLONG	Z	iP	12	27	03		Slight, distant rarefaction
16	POONA	Z	e	12	46	42		Feeble
16	SHILLONG	Z	iP	14	22	03		Slight, distant compression
	POONA	Z	e	14	23	36		Tremor
16	SHILLONG	Z	eP	14	56	40		Slight, distant
16	SHILLONG	Z	iP	15	41	28		Slight, distant compression
16	SHILLONG	Z	iP	18	56	15		Feeble, compression
16	SHILLONG	Z	eP	20	07	33		Very feeble, distant
16	SHILLONG	Z	iP	20	46	47		Slight, distant rarefaction
16	SHILLONG	Z	iP	22	10	36		Slight, distant rarefaction
17	SHILLONG	Z	eP	00	01	37		Slight, distant
17	SHILLONG	Z	eP	00	14	08		Very feeble
17	SHILLONG	Z	eP	00	44	51		Very feeble
17	SHILLONG	Z	iP	00	46	38		Feeble
17	SHILLONG	Z	iP	01	58	11		Slight rarefaction
17	SHILLONG	Z	iP	02	59	55		Slight
17	POONA	Z	e	03	01	24		Feeble
17	SHILLONG	Z	eP	04	20	53		Feeble
	CHATRA	Z	iP	04	21	51	240	Slight
		E	iS		22	19		
17	SHILLONG	Z	iP	04	22	03	130	Slight
			Sg		22	19		
17	SHILLONG	Z	iP	07	16	27		Slight, distant rarefaction
	POONA	Z	e	07	17	47		Feeble
17	Epc: 51°N, 179°W. In the Aleutians H 07h 53m 51s (U.S.C.G.S) Mag. 6.1 (Uppsala)							
	SHILLONG	Z,N,E	iP	08	05	02	7710	
		N,E	iS		14	10		
	CHATRA	Z	e	08	05	14		
	DEHRA DUN	N,E	eP	08	05	34	8130	Other phases not clear
		N	iS		15	02		
			PPS		15	48		
			M		34	41		
	HYDERABAD	E,N	iP	08	06	22	9280	Initial ground movement towards West and South.
			iS		16	44		
		N	PS		17	37		
			SS		22	21		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
17 Contd.	HYDERABAD Contd.	N	Lr	08	33	07		
		E	Lr		33	10		
		N	M		39	04		Per.≈18 secs μ ≈ 8
		E	M		39	53		Per.≈15 secs μ = 5
	POONA	Z	eP	08	06	34	9490	
		E	eS		17	05		
	BOMBAY	N,E	eP	08	06	36	9590	
			iS		17	11		
		E	PS		18	10		
			PPS		19	32		
		N	M		43	30		Per.≈18 secs μ ≈ 2
		E	M		47	25		Per.≈18 secs μ ≈ 3
	MADRAS	E	eP	08	06	42		
			e		16	53		
			e		44	00		
	COLOMBO	E	e	08	17	35		
			e		19	40		
17	SHILLONG	Z	eP	08	23	52		Slight
			i(?)		24	09		
	BOKARO	N,E	i	09	15	10		Tremor
17	SHILLONG	Z	iP	14	51	05		Slight, distant rarefaction
			i(?)		52	52		
17	SHILLONG	Z	eP	15	03	32		Slight, local
17	POONA	Z	iP	15	24	53		Feeble
17	BOMBAY	E	e	15	35	56		
17	SHILLONG	Z	iP	16	29	09		Slight, distant rarefaction
	CHATRA	Z	iP	16	29	18		Feeble
			i		32	43		
	DEHRA DUN	N,E	e	16	29	28		Tremor
	POONA	Z	eP	16	30	28	10240	Slight
		E	eS		41	29		
	BOMBAY	N	e	16	30	32		Very feeble
		E	e		41	35		
		N	e		41	41		
	MADRAS	E	e	16	31	27		Feeble
			e		34	00		
17	SHILLONG	Z,N,E	iP	16	38	07		Slight, local, other phases not clear
	CHATRA	Z	eP	16	39	12		Slight
			i		40	36		
17	SHILLONG	Z	eP	17	32	06		Feeble
17	SHILLONG	Z	iP	17	32	20		Slight, distant rarefaction
17	SHILLONG	Z	iP	18	45	02		Very feeble
17	SHILLONG	Z	iP	19	16	42		Slight, local
17	SHILLONG	Z	iP	19	48	09		Slight rarefaction
17	CHATRA	Z	eP	20	03	42		Feeble
			i		04	15		
17	SHILLONG	Z	iP	21	16	13		Slight rarefaction
17	Epc: 54°N, 166°W. In the Aleutians - H = 22h 44m 44s (U.S.C.G.S) Mag: 6½(Pasadena, Moscow, Lwiro), 6¼(Strasbourg)							
	SHILLONG	Z	eP	22	56	38		Distant
	CHATRA	Z	i	22	56	49		Distant
17 Contd.	DEHRA DUN Contd.	N,E	eP	22	56	57	9070	Other phases not clear
		N	iS	23	07	09		
			PS		08	03		
			SS		12	58		
			M		30	55		
	NEW DELHI	N	iP	22	57	06	9090	
			PP	23	00	10		
			iS		07	19		
			ScS		07	41		
			PS		08	11		
	BOKARO	N,E	i	22	57	07		Other phases not clear
	KODAIKANAL	E	e	22	57	17		Tremor
	HYDERABAD	E,N	iP	22	57	50	9350	Initial ground movement to wards West and South
		N	PP	23	01	27		
			PPP		03	18		
		E,N	iS		08	15		
		N	ScS		08	52		
			PS		09	09		
			PPS		09	33		
			SS		13	33		
			Lr		25	03		
		E	Lr		25	36		
			M		31	12		Per.≈18 secs μ ≈11
		N	M		31	33		Per.≈18 secs μ ≈17
	BOMBAY	N,E	eP	22	57	57	10030	Moderate
			eS	23	08	50		
		E	e		09	12		
			PPS		10	27		
			M		44	20		Per.≈3 secs μ ≈20
		N	M		44	22		Per.≈20 secs μ ≈17
	POONA	Z	eP	22	57	58	10130	Moderate
		E	eS	23	08	55		
	MADRAS	E	e	22	58	13		Feeble
			e	23	08	34		
	COLOMBO	E	e	22	58	36		
			e	23	09	26		
			e		38	51		
			e		44	31		
18	SHILLONG	Z	eP	00	23	25		Slight, distant
18	POONA	Z	e	00	54	57		Feeble
18	SHILLONG	Z	eP	02	36	17		Slight
			i(?)		37	05		
	HYDERABAD	N	iP	02	38	21	9260	Slight
			iS		48	42		
			PPS		50	11		
			PKKS		59	15		
			M	03	12	15		Per.≈18 secs μ ≈ 6
	BOMBAY	N,E	e	02	38	30		Very slight
			e		49	21		
	POONA	Z	iP	02	38	28	9870	Feeble
		E	eS		49	14		
18	POONA	Z	eP	05	21	13		Feeble
		E	e		31	59		
	BOMBAY	N,E	eP	05	21	26	9470	Slight
			eS		31	56		
	HYDERABAD	N	S	05	21	27		
			M		54	11		Per.≈15 secs
		E	M		54	15		μ = 4
18	SHILLONG	Z	eP	08	30	51		Slight
18	SHILLONG	Z	eP	10	11	33		Slight, local
18	DEHRA DUN	N,E	e	14	57	26		Tremor
	SHILLONG	Z	iP	14	58	01		Slight
18	SHILLONG	Z	iP	15	36	52		Slight

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DATE	STATION	COMPT	PHASE	G. M. T h. m. s	Δ km	REMARKS
				March 1957		
18	SHILLONG	Z	iP	18 13 37		Slight, distant rarefaction
	CHATRA	Z	i	18 44 01		Feeble, distant
18	SHILLONG	Z	iP	19 18 36		Slight, distant
18	SHILLONG	Z	iP	20 02 55		Slight, distant compression
18	SHILLONG	Z	iP	20 14 58		Slight, distant rarefaction
	CHATRA	Z	i	20 15 10		Feeble, near
18	Epc: 6°S. 152°E New Britain - H = 21h 14m 12s					
	SHILLONG	Z	iP	21 25 09	9390	Slight, distant
		N, E	iS	33 59		rarefaction
	CHATRA	Z	i	21 25 37		Slight, distant
	COLOMBO	E	e	21 25 54		
			e	35 19		
			e	56 54		
			e	22 04 04		
	KODAIKANAL	E	e	21 26 14		Tremor
	DEHRA DUN	N, E	e	21 26 29		Slight, other
		N	i	36 28		phases not
			e	37 22		clear
			e	37 42		
	POONA	Z	iP	21 26 36		Slight
		E	e	36 58		
	BOMBAY	N, E	eP	21 26 41	9110	Slight
			iS	36 55		
	HYDERABAD	N	e	21 36 02		
18	SHILLONG	Z	iP	22 19 21		Slight, local
18	SHILLONG	Z	eP	23 26 24		Feeble
19	SHILLONG	Z	eP	00 31 49		Slight
19	SHILLONG	Z	iP	03 51 02		Slight, compression
	POONA	Z	i	03 52 28		Feeble
19	SHILLONG	Z	iP	08 24 27		Slight, distant
19	SHILLONG	Z	iP	08 25 59		Slight, distant
19	SHILLONG	Z	iP	08 25 59		Slight, dilation
	POONA	Z	iP	08 27 20	9580	Feeble
		E	eS	37 56		
	BOMBAY	E	e	08 38 02		
19	Epc: 51½°N, 176½°W. In the Aleutians. - H = 11h 28m 50s (U.S.C.G.S)					
	SHILLONG	Z, E	iP	11 40 11	79100	Slight, compression, initial ground movement towards West.
		E	PcP	40 37		
			PP	42 44		
			iS	49 28		
			PS	49 53		
			PPS	50 06		
	CHATRA	E	eP	11 40 27		Feeble, distant
	DEHRA DUN	N, E	e	11 40 37		Feeble, phases not clear
			i	50 17		
	HYDERABAD	E, N	iP	11 41 28	9320	Moderate
			iS	51 52		
		N	ScS	52 14		
			Lr	12 08 28		
			M	15 07		Per. ≈15 secs μ≈5
		E	M	16 02		Per. ≈15 secs μ≈4
	POONA	Z	eP	11 41 38	9687	Slight
		E	eS	12 14 35		
	BOMBAY	N, E	eP	11 41 43		Slight
			e	52 20		
			e	52 36		

DATE	STATION	COMPT	PHASE	G. M. T h. m. s	Δ km	REMARKS
19	Epc: 51½°N. 175°W. In the Aleutians - H = 12h 50m 51s (U.S.C.G.S) Mag: 6.8 (Roma), 6¾(Pasadena, Skalnate Pleso), 6¾, 6¾(Strasbourg, Praha).					
	SHILLONG	Z, N	eP	13 02 18	8020	
		E	PcP	02 39		
			PP	04 5		
			PPP	06 2		
			iS	11 41		
			PS	11 59		
			PPS	12 16		
			SS	15 51		
			SSS	18 15		
			Lq	20 41		
			M	29 45		Per. ≈18 μ ≈48
	CHATRA	E	eP	13 02 36		
			i	12 44		
	DEHRA DUN	N, E	eP	13 02 41	8630	
		N	PPP	07 1		
			iS	12 32		
			PPS	13 24		
			SS	17 29		
			SSS	20 22		
			Lq	23 20		
			Lr	27 02		
			M	32 16		
	BOKARO	N, E	eP	13 02 53	8640	
		N	PcP	03 00		
			iS	1 46		
			[illegible]	13 10		
			PPS	13 47		
			M	30 51		Per. [illegible] sec μ ≈113
19	NEW DELHI	N	iP	13 03 [illegible]		
			i	12 52		
			e	13 14		
			e	13 54		
			e	17 53		
			e	35 25		
	HYDERABAD	E, N	iP	13 03 40	9.	Initial ground
			iS	04 07		movement
		N	PPS	15 19		towards West
			SS	19 28		and South
			SKKP1	21 08		
			SSS	23 10		
			Lq	26 20		
			SKKS2	28 04		
			Lr	30 34		
		E	M	36 55		Per. ≈18 secs μ ≈25
		N	M	36 56		Per. ≈22 secs μ ≈38
	POONA	Z	iP	13 03 44		
		E	e	14 35		
	BOMBAY	N, E	eP	13 03 47	9960	
		E	SKS	14 20		
		N, E	eS	14 37		
		E	ScS	14 48		
		N, E	PS	15 43		
		E	SS	20 22		
		N, E	e	20 56		
		E	SSS	23 33		
			Lq	27 51		
		N	M	40 53		Per. ≈19 secs μ ≈41
		E	M	43 24		Per. ≈21 secs μ ≈32
	MADRAS	E	eP	13 03 52		
			PP	07 34		
			e	13 44		
			i	14 24		
			e	15 43		
			e	20 19		
			e	27 24		
			e	43 40		
	COLOMBO	E	P	13 04 26		
			e	14 53		
			e	42 21		
			e	49 23		
19	SHILLONG	Z	iP	13 32 02		Slight compression
19	SHILLONG	Z	eP	13 37 06		Slight compression

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
19	SHILLONG	Z	iP	14	07	13		Slight, dilatation
19	SHILLONG	Z	iP	14	23	59		Slight, compression
19	SHILLONG	Z	iP	14	34	38		Slight, compression
19	SHILLONG	Z	eP	14	44	35		Slight distant
19	SHILLONG	Z	iP	15	26	36		Slight dilatation
19	SHILLONG	Z	eP	15	59	02		Slight
19	POONA	Z	iP	16	00	25	9960	Feeble
		E	eS		11	15		
19	BOMBAY	N,E	e	16	11	18		Very feeble
19	SHILLONG	Z	iP	16	33	34		Slight compression
19	SHILLONG	Z	iP	17	16	06		Slight compression
	POONA	Z	i	17	17	28		Feeble
19	SHILLONG	Z	eP	19	20	40		Slight compression
19	SHILLONG	Z	eP	20	36	09		Slight
19	SHILLONG	Z	iP	23	35	33		Slight compression
20	SHILLONG	Z	iP	00	12	26		Slight, dilatation
	POONA	Z	eP	00	13	48		Feeble
20	SHILLONG	Z	iP	00	34	09		Slight compression
20	POONA	Z	e	00	35	30		Feeble
20	SHILLONG	Z	iP	00	50	00		Slight compression
20	SHILLONG	Z	iP	00	54	51		Slight compression
20	POONA	Z	iP	03	07	52	9710	Feeble
		E	eS		18	32		
	SHILLONG	Z	iP	03	09	49		Slight compression
20	SHILLONG	Z	iP	03	36	26		Slight compression
	BOMBAY	N,E	e	03	48	34		Very feeble
20	SHILLONG	Z	iP	05	49	04		Slight, dilatation
20	SHILLONG	Z	iP	06	17	35		Slight compression
	BOMBAY	N,E	e	06	27	17		Very feeble
20	SHILLONG	Z	iP	06	36	03		Slight, dilatation
20	SHILLONG	Z	iP	07	11	43	150	Slight compression
			Pg		11	46		
			pP		11	51		
			PPP		11	57		
			Sg		12	04		
20	SHILLONG	Z	eP	07	31	13		Slight
20	SHILLONG	Z	iP	07	58	48	500	Slight, dilatation
			PP		58	56		
			Pg		59	09		
			S		59	42		
			S*		59	58		
			Sg	08	00	09		
20	Epc: 52°N, 172°W. In the Aleutians H = 11h 01m 42s (U.S.C.G.S)							
	SHILLONG	Z	iP	11	13	18	8220	Slight, dilatation
		E	PcP		13	36		
			iS		22	50		
			SKS		23	24		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
20 Contd.	CHATRA	Z	iP	11	13	30		Feeble
	POONA	Z	iP	11	14	45	9970	Feeble
		E	eS		25	31		
	BOMBAY	N,E	eS	11	25	34		
20	SHILLONG	Z	eP	12	59	55		Slight
	CHATRA	Z	i	13	00	25		Feeble, emergent
20	SHILLONG	Z	eP	15	12	32		Slight
20	CHATRA	Z	eP	17	48	04	200	Feeble
			iS		48	28		
20	SHILLONG	Z	eP	18	46	14		Slight
20	SHILLONG	Z	iP	19	02	32		Slight compression
	CHATRA	Z	e	19	02	46		Feeble, distant
20	SHILLONG	Z	iP	19	25	35		Slight, dilatation
20	SHILLONG	Z	iP	20	04	41		Slight, dilatation
20	SHILLONG	Z	iP	20	10	27		Slight compression
	CHATRA	Z	e	20	10	39		Feeble, distant
20	SHILLONG	Z	iP	20	39	34		Slight compression
	CHATRA	Z	e	20	39	50		Feeble, near
	POONA	Z	i	20	41	05		Slight
20	SHILLONG	Z	iP	22	52	15		Slight, dilatation
20	SHILLONG	Z	eP	23	39	26		Feeble
21	SHILLONG	Z	eP	00	40	06		Slight compression
21	SHILLONG	Z	iP	04	40	35		Slight compression
	POONA	Z	iP	04	41	59		Slight
21	SHILLONG	Z	iP	06	39	32		Slight, dilatation
21	SHILLONG	Z	iP	08	43	15		Slight, dilatation
21	SHILLONG	Z	eP	09	04	08		Tremor
	POONA	Z	iP	09	04	25		Feeble
21	SHILLONG	Z	iP	11	14	16		Slight, dilatation
21	SHILLONG	Z	iP	12	20	06		Slight compression
21	POONA	Z	iP	12	34	36		Feeble
21	SHILLONG	Z	iP	12	43	11		Slight compression
21	SHILLONG	Z	iP	13	41	35		Slight, dilatation
21	SHILLONG	Z	iP	14	23	29		Slight, dilatation
21	POONA	Z	eP	15	39	12		Feeble
21	SHILLONG	Z	iP	15	57	44		Slight, dilatation
21	Epc: 3°S, 144½°E. Near North Coast of New Guinea H = 16h 35m 28s (U.S.C.G.S) Mag: 6.3 (Uppsala, Kiruna).							
	SHILLONG	Z	iP	16	45	28		Compression
	COLOMBO	E	e	16	46	23		
			e		55	28		
			e	17	11	21		
			e		15	01		
	MADRAS	E	e	16	46	30		
			e		55	13		
	POONA	Z	eP	16	47	05		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 1957		
21 Contd.	DEHRA DUN	N, E	eP	16 47 18	7680	Other phases not clear
		N	iS	56 24		
			SS	17 00 30		
	BOMBAY	E	e	16 47 18		
		N, E	e	56 43		
		E	e	17 01 41		
	BOKARO	N, E	e	16 54 43		Tremor
	HYDERABAD	N	e	16 55 42		
21	SHILLONG	Z	iP	17 50 33		Slight compression
	POONA	Z	iP	17 52 01		Feeble
	BOMBAY	N	eP	17 52 03	9670	Very slight
		N, E	eS	18 02 41		
	BOKARO	N, E	i	18 00 43		
	HYDERABAD	N	e	18 02 19		
			M	25 31		
21	SHILLONG	Z	iP	18 19 41		Slight compression
21	SHILLONG	Z	iP	21 33 50		Slight, dilatation
22	CHATRA	Z	iP	05 18 44	670	Slight
22	SHILLONG	Z	eP	09 47 56		Tremor
22	SHILLONG	Z	iP	10 37 35		Slight, dilatation
	COLOMBO	E	e	10 56 21		
			M	59 11		Amp: 0.5 mm
22	SHILLONG	Z	iP	11 23 22		Slight, dilatation
22	SHILLONG	Z	iP	11 45 52		Slight, dilatation

22 Epc: 54°N, 171°W. In the Aleutians - H = 14h 21m 21s (Shillong)
Mag: 7½ (Moscow, Pasadena, Berkeley). 7¼ (Praha), 54°N, 166°W. - H = 14h 21m 06s (U.S.C.G.S)
7.2 (Skalnate Pleso).

SHILLONG	Z	eP	14 32 56	8290		
	E	PcP	33 17			
		PP	35 48			
		iS	42 30			
		PS	42 57			
		PPS	43 11			
		SS	47 10			
		Lq	52 00			
		Lr	55 36			
		M	15 00 36		Per. = 18 secs	
					μ = 110	
CHATRA	E	eP	14 33 13			
		i	43 27			
DEHRA DUN	N, E	eP	14 33 18	8490		
	N	PP	35 54			
		iS	43 03			
		PS	43 22			
		PPS	43 38			
		SS	47 30			
		SSS	50 43			
		Lr	54 56			
		M	15 02 13		Per. = 19 secs	
					μ = 145	
BOKARO	N, E	iP	14 33 26	8800	Initial ground	
	N	iS	43 26		ground movement	
		SS	48 22		towards South	
		Lq	54 16		and West	
		Lr	57 28			
		M	15 03 05		Per. = 23 secs	
	E	M	03 05		μ = 163	
					Per. = 37 secs	
					μ = 204	
NEW DELHI	N	iP	14 33 28	8980	Initial ground	
		PP	36 29		movement towards	
		PPP	38 25		South	
		i	40 03			
		iS	43 36			
		ScS	44 01			
		PPS	44 40			
		SS	49 19			
		Lq	55 51			

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
22 Contd. Contd.	NEW DELHI	N	Lr	15 00 03		
			M	05 55		Per. = 19 secs
			Mn	13 27		μ = 232
	HYDERABAD	E, N	iP	14 34 11	9280	Initial ground
		N	PP	37 18		movement towards
			PPP	39 33		West and South
		E, N	iS	44 33		
		N	ScS	44 57		
			PS	45 30		
			PPS	45 45		
			SS	50 [illegible]		
			PKKP 1	57 39		
			Lr	15 02 35		
			M	07 05		Per. = 24 secs
						μ = 161
	POONA	Z	iP	14 34 17		
		N, E	e	15 10		Initial ground movement towards South and West
			e	15 20 [illegible]		Compression
	BOMBAY	N, E	iP	14 34 18	[illegible]	
			PP	37 27		
		N	e	37 57		
		N, E	PPP	39 59		
			e	41 42		
			SKS	44 47		
			iS	45 10		
			ScS	45 33		
			PS	46 03		
		E	PPS	46 38		
		N	PPS	46 53		
			SS	50 50		
			Lq	58 39		
		E	Lr	15 02 59		
		N	M	19 11		Per. = 21 secs
		E	M	20 25		μ = 151
						Per. = 21 secs
						μ = 94
	MADRAS	E	eP	14 34 24 10		
			PP	38 31		
			PPP	40 00		
			iSKS	44 57		
			e	45 45		
			e	46 46		
			e	50 31		
			e	15 25 27		
	COLOMBO	E	P	14 34 49		
			e	38 51		
			e	45 46		
			e	15 14 01		
			e	20 23		
	KODAIKANAL	E	iP	14 36 11(?)		Initial ground movement towards West
			e	47 29(?)		
22	POONA	Z	iP	14 46 23		Slight
22	SHILLONG	Z	iP	17 21 29		Slight compression
	POONA	Z	iP	17 22 51		Feeble
22	BOMBAY	N, E	e	17 33 20		Feeble
22	SHILLONG	Z	iP	19 54 01		Slight compression
22	BOMBAY	N, E	e	20 06 03		Very feeble
22	SHILLONG	Z	iP	20 33 34		Slight, dilatation
22	SHILLONG	Z	iP	20 50 08		Slight compression
23	SHILLONG	Z	iP	00 15 46		Slight, dilatation
23	SHILLONG	Z	iP	00 56 07		Slight compression
23	SHILLONG	Z	iP	01 03 26		Slight compression
23	SHILLONG	Z	iP	02 43 29		Slight, near, other phases not clear.

23 3.5°S. 133.5°E. Banda Sea. - h = 160 kmCa
Epc: 5½°S, 131°E. - h = 100 kmCa - H = 05h 12m 40s (Shillong)
Mag: 7.1 (Uppsala, Kiruna), 7 (Pasadena). - H = 05h 12m 31s (U.S.C.G.S)

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
					March 1957			
23 Contd.	SHILLONG	Z,N,E	iP	05	21	14	5050	Compression First movement West and North
		E	pP		22	00		
			sP		22	12		
			PP		23	11		
			PPP		23	52		
			iS		28	01		
			PS		28	07		
			PPS		28	15		
			sS		29	08		
			i		30	54		
			SS		31	20		
			SSS		32	55		
	COLOMBO	E	P	05	21	44	5700	Initial ground movement towards North and West
		N	PP		22	27		
			iS		29	03		
			SS		30	16		
			PPS		32	03		
			Lq/SSS		41	55		
			Lr		43	46		
	CHATRA	Z	iP	05	21	50	5830	
		E	iS		29	16		
	MADRAS	E	iP	05	21	52	6080	Ground movement towards West
			pP?		22	36		
			PcP		22	56		
			PPP		25	04		
			ScP		26	43		
			iS		29	16		
			PPS		29	36		
			SS		30	30		
			ScS		31	08		
			SS?		32	46		
			SSS?		34	07		
			Lr		36	27		
			M		40	00		
	HYDERABAD	E,N	iP	05	22	10	6120	Initial ground movement towards West and North
		N	PcP		23	09		
			PP		24	11		
			PPP		25	39		
			PcS		27	09		
		E,N	iS		29	52		
		N	pS		30	08		
			ScS		31	42		
			SS		33	30		
		E	Lr		37	57		
		N	Lr		38	24		
			M		43	53		Per. ± 18 secs μ ± 12
		E	M		44	06		Per. ± 21 secs μ ± 16
	POONA	Z	iP	05	22	42		
		E	e		24	32		
		N,E	i		30	51		
		E	e		30	56		
			e		31	03		
			e		32	11		
		N	e		34	47		
		E	e		37	02		
		N	e		37	21		
	NEW DELHI	N	eP	05	22	45		
			i		30	54		
			i		32	22		
			e		35	04		
			e		37	34		
			e		40	25		
			e		45	40		
	DEHRA DUN	N,E	eP	05	22	49	6670	
		N	PPP		26	34		
			iS		31	01		
			PS		31	19		
			PPS		31	35		
			SS		35	02		
			SSS		37	24		
			Lq		38	11		
			Lr		40	51		
			M		46	07		
	BOMBAY	N	eP	05	22	49	6700	
		E	iP					
		E	e		23	28		
			PP		25	08		
			PPP		26	41		
			PcS		27	48		
		N,E	iS		31	03		
			PPS		31	45		
			SKS		32	31		
			SS		35	02		
		E	Lq		38	11		
		N	M		48	42		Per. ± 16 secs μ ± 5
23 Contd. Contd.	BOMBAY	E	M	05	53	38		Per. ± 7 secs μ ± 3
	KODAIKANAL	E	iP	05	23	[illegible]		Initial ground movement towards West
			e		30	4[illegible]		
23	SHILLONG	Z	eP	09	04	55		Slight compression
23	SHILLONG	Z	iP	09	15	39		Slight, dilatation
23	SHILLONG	Z	eP	09	22	10		Tremor
23	SHILLONG	Z	iP	10	41	04		Slight compression
23	SHILLONG	Z	iP	13	04	52		Slight compression
23	POONA	Z	e	13	37	31		Feeble
23	SHILLONG	Z	i(P)	13	50	53		Slight, local
	POONA	Z	i	13	52	53		Feeble
23	SHILLONG	Z	iP	16	30	15		Slight, dilatation
23	SHILLONG	Z	iP	19	10	52		Slight, dilatation
23	CHATRA	Z	eP	20	42	00	840	Slight
			iS		43	27		
23	SHILLONG	Z	iP	23	20	25		Slight, distant
24	SHILLONG	Z	iP	04	47	16		Slight compression
24	SHILLONG	Z	eP	05	16	45		Slight, dilatation
24	BOMBAY	E	e	07	08	26		Very slight
		N	e		09	11		
24	SHILLONG	Z	iP	07	40	30		Slight, dilatation
24	Epc: 51°N, 130°W. - H ± 08h 22m 23s (U.S.C.G.S) Mag: 6¾-7 (Pasadena)							
	BOMBAY	N	e	08	41	19		
		E	e		52	19		
			e	09	00	36		
			e		01	09		
		N,E	M		30	--		
24	DEHRA DUN	N,E	e	08	46	30		
			i		48	22		
	HYDERABAD	N	M	09	20	23		Per. ± 18 secs μ ± 5
24	BOMBAY	N	e	11	12	20		Slight
			e		13	22		
24	Epc: 52½°N, 169½°W. In the Aleutians - H ± 11h 06m 10s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	11	17	52	8380	Slight, first movement West Compression
		E	PcP		18	04		
			iS		27	32		
			SKS		27	56		
			PPS		28	19		
			SS		32	22		
			M		45	51		
	CHATRA	Z	i	11	18	05		Feeble, near
	POONA	Z	iP	11	19	16	10030	Slight
		E	eS		40	04		
	BOMBAY	N,E	eP	11	19	22	10390	Slight
		E	SKS		29	46		
		N,E	SKKS		29	58		
			eS		30	29		
	DEHRA DUN	N,E	e	11	28	31		Feeble, phases not clear
24	Epc: 52½°N, 171½°W. In the Aleutians - H ± 11h 36m 50s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	11	48	27	8180	Initial ground movement towards West. Compression
		E	PcP		48	41		
			PP		51	21		
			PPP		53	03		
			iS		57	57		
			SKS		58	26		
			ScS		58	33		
			PS		58	41		
			PPS		58	59		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
24 Contd.	POONA	Z	iP	11	49	50		Slight
		E	e	12	00	39		
	HYDERABAD	N	M	11	55	17		Per. ± 16 secs μ ± 4
	COLOMBO	E	e	12	06	11		
			e		09	36		
	BOMBAY	N,E	e	12	06	33		Slight
			e		09	10		
		N	e		10	00		
		N,E	e		12	28		
24	Epc: 37°N, 71°E. In Hindukush. - h ± 200 KmCa - H ± 12h 05m 10s (U.S.C.G.S) 36½°N, 70¾°E. - H ± 12h 05m 18s (Quetta).							
	DEHRA DUN	N,E	eP	12	07	17	880	Slight
		N	Lq		08	37		
			iS		08	47		
			SS/Lr		09	00		
			SSS		09	12		
	NEW DELHI	N	eP	12	07	26	970	Slight
			iS		09	06		
			SS		09	28		
			S*		09	39		
			Sg		10	07		
	CHATRA	Z	iP	12	09	03	1920	Slight
		E	iS		12	15		
	POONA	Z	iP	12	09	16	1950	Moderate
			eS		12	30		
	SHILLONG	Z	iP	12	09	43		Slight compression
	MADRAS	E	eP	12	10	27	3000	Feeble
			eS		15	04		
			M		18	20		
	COLOMBO	E	L	12	32	36		
			M		36	36		Amp: 0.5 mm
24	SHILLONG	Z	iP	14	05	09		Slight, dilatation
24	SHILLONG	Z	iP	16	44	13		Slight compression
24	CHATRA	Z	i	17	40	46		Feeble, near
24	SHILLONG	Z	iP	19	14	26		Slight compression
24	SHILLONG	Z	eP	20	05	12		Slight compression
24	SHILLONG	Z	eP	21	14	17		Slight
25	SHILLONG	Z	eP	00	26	09		Slight
25	SHILLONG	Z	iP	00	51	18		Slight, compression
25	DEHRA DUN	N,E	e	01	02	03		Feeble, phases not clear
25	BOMBAY	E	e	01	30	08		Slight
25	SHILLONG	Z	iP	01	30	20		Slight compression
25	SHILLONG	Z	eP	02	47	55		Feeble
	POONA	Z	iP	02	48	14		Tremor
25	SHILLONG	Z	eP	03	18	09		Slight compression
25	SHILLONG	Z	iPg	03	20	39	60	Slight, local
			iSg		20	45		
25	SHILLONG	Z	iP	07	15	10		Slight compression
25	SHILLONG	Z	eP	08	35	13		Slight
25	SHILLONG	Z	iP	08	56	03		Slight, dilatation
25	SHILLONG	Z	iP	09	24	53		Slight compression
25	SHILLONG	Z	iP	10	19	09		Slight, dilatation
25	SHILLONG	Z	iP	10	36	05		Slight, dilatation
25	SHILLONG	Z	iP	14	25	28		Slight, dilatation
25	DEHRA DUN	N,E	e	15	04	01		Feeble
25	DEHRA DUN	N,E	e	17	56	38		Feeble
	POONA	Z	iP	17	59	44		Feeb
25	SHILLONG	Z	iP	18	30	08		Slight compression
25	SHILLONG	Z	e	18	45	25		Tremor
25	SHILLONG	Z	iP	21	25	18		Slight compression
	BOMBAY	N,E	e	21	34	58		Very slight
	COLOMBO	E	L	21	56	13		
			M		59	43		Amp: 0.6 mm
26	SHILLONG	Z	iP	02	22	09		Slight compression
26	SHILLONG	Z	iP	02	59	11		Slight compression
26	SHILLONG	Z,E	eP	03	16	42		Slight
	POONA	Z	iP	03	18	05		Tremor
	BOMBAY	N,E	e	03	28	30		Slight
			e		29	11		
	HYDERABAD	N	M	03	41	25		Per. ± 18 secs μ ± 4
26	Epc: 28°N, 52½°E. Near South Coast of Iran - H ± 04h 49m 20s (U.S.C.G.S)							
	BOMBAY	N,E	eP	04	54	05	2370	Slight
			eS		57	58		
	POONA	Z	iP	04	54	16	2490	Feeble
		E	PP		54	48		
			PPP		55	03		
			eS		58	18		
			Lq		58	55		
			Lr		59	59		
	DEHRA DUN	N,E	e	04	54	38		Slight
			i		58	36		
			i		59	33		
	HYDERABAD	N	e	04	59	26		
26	SHILLONG	Z	eP	16	00	34		Tremor
26	SHILLONG	Z	iP	16	13	07		Slight rarefaction
26	POONA	Z	i	18	29	31		Tremor
26	SHILLONG	Z	iP	19	28	02		Slight rarefaction
26	SHILLONG	Z	eP	21	06	15		Tremor
	POONA	Z	i	21	44	38		Tremor
27	SHILLONG	Z	iP	04	25	35		Slight compression
27	SHILLONG	Z	iP	13	11	14		Slight compression
27	SHILLONG	Z	eP	13	36	54		Slight
27	SHILLONG	Z	iP	16	08	36		Slight
27	SHILLONG	Z	iP	20	27	19		Slight rarefaction
27	SHILLONG	Z	eP	22	58	51		Slight rarefaction
			i		59	49		
27	SHILLONG	Z	eP	23	11	35		Slight
28	SHILLONG	Z	iP	01	26	50		Slight compression
28	SHILLONG	Z	eP	06	25	35		Slight
28	SHILLONG	Z	iP	13	52	19		Slight, near rarefaction

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
28	SHILLONG	Z	eP	14 32 58		Slight
28	CHATRA	Z	eP	17 58 03	1780	Slight
			iS	18 01 01		
28	SHILLONG	Z	iP	18 04 24		Slight compression
28	SHILLONG	Z	iP	18 40 22		Slight compression
28	SHILLONG	Z	iP	20 06 57		Slight compression
28	SHILLONG	Z	iP	20 19 59		Slight compression
28	POONA	Z	iP	20 21 24		Feeble, phases not clear
28	DEHRA DUN	N,E	e	20 30 31		Feeble
	HYDERABAD	E,N	e	20 31 58		
		E	e	56 28		
		N	e	57 25		
28	BOMBAY	N,E	e	20 32 26		Slight
28	SHILLONG	Z	eP	20 56 05		Slight, local
28	CHATRA	Z	iP	22 22 03	70	Feeble
			iS	22 13		
29	COLOMBO	E	L	05 04 31		
29	Epic: 52°N, 170°W. In the Aleutians					
	53½°N, 167°W. - H = 05h 10m 34s (Shillong)					
	- H = 05h 10m 28s (U.S.C.G.S)					
	- H = 05h 10m 33s (Moscow)					
	Mag: 6.9 (Skalnate Pleso), 6¾ (Moscow)					
	SHILLONG	Z,N,E	iP	05 22 18	8310	
		N,E	PcP	22 33		
			PP	25 01		
			PPP	26 43		
			iS	31 55		
			SKS	32 13		
			PS/ScS	32 24		
			PPS	32 29		
			SS	36 39		
			SSS	39 52		
			Lq	41 56		
			Lr	45 28		
		E	M	49 48		Per. ±30 secs
		N	M	49 48		Amp: 6 mm
	CHATRA	Z	eP	05 22 29	8550	
		E	eS	32 17		
	DEHRA DUN	N,E	eP	05 22 37	8670	
		N	PP	25 51		
			iS	32 31		
			PS	33 41		
			SS	38 07		
			SSS	42 07		
			Lq	43 57		
			Lr	48 59		
			M	56 23		
	BOKARO	N,E	iP	05 22 47	8780	Direction of the initial ground movement towards South and West
		N	eS	32 46		
			PS	33 38		
			PPS	33 55		
			M	52 04		
	NEW DELHI	N	iP	05 22 49	8860	
			PP	25 48		
			e	29 37		
			iS	32 51		
			e	33 05		
			i	33 20		
			e	34 04		
			e	34 26		
			e	38 45		
			e	42 44		
			e	48 33		
			M	55 29		
	HYDERABAD	E,N	iP	05 23 31		Initial ground movement towards West and South
		N	e	26 55		
			e	28 37		
			e	33 21		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
29 Contd.	HYDERABAD Contd.	E,N	i	05 33 51		
		N	e	34 34		
			e	38 58		
			e	41 04		
			e	44 25		
		E	e	49 31		
			e	49 40		
			M	54 48		Per. ±21 secs
						A ±51
		N	M	55 31		Per. ±24 secs
						A ±48
	BOMBAY	N,E	eP	05 23 37	10000	
			PP	27 8		
			SKS	34 07		
			eS	34 29		
			PS	35 36		
			PPS	36 08		
		E	M	06 07 45		Per. ±21 secs
						A ±36
		N	M	07 49		Per. ±23 secs
						A ±46
	MADRAS	E	eP	05 23 38	10080	
			e	34 10		
			iS	34 33		
			PS	36 09		
			Lq	52 36		
			M	06 00 07		
	POONA	Z	iP	05 23 38		
		E	e	27 00		
			i	34 25		
			e	35 28		
		N	e	36 03		
			e	40 14		
			e	47 59		
			e	52 33		
			e	06 07 --		
29	SHILLONG	Z	iP	05 45 50		Slight, local
	POONA	Z	iP	05 47 38		Feeble, phases mixed up with the previous one.
29	SHILLONG	Z	eP	05 51 40		Slight, distant
29	SHILLONG	Z	eP	07 37 49		Slight, distant
29	SHILLONG	Z	eP	08 27 54		Slight, distant
29	SHILLONG	Z	eP	09 34 32		Tremor
29	DEHRA DUN	N,E	e	14 36 50		Slight, phases not clear
	NEW DELHI	N	eP	14 37 16	270	Slight
			Pg	37 27		
			iS	37 47		
			Sg	37 56		
	CHATRA	Z	eP	14 38 27	920	Slight
			iS	40 02		
	SHILLONG	Z	eP	14 39 21		Slight
	POONA	Z	eP	14 41 46		Slight, near phases not clear
	BOMBAY	N,E	e	14 43 07		Near, tremor
29	SHILLONG	Z	iP	15 25 52		Slight compression
29	SHILLONG	Z	iP	17 47 36		Slight compression
29	CHATRA	Z	eP	18 50 43	30	Feeble
			iS	50 47		
29	SHILLONG	Z	iP	18 50 45		Slight compression
29	SHILLONG	Z	eP	19 10 35		Slight
29	SHILLONG	Z	eP	19 25 50		Slight, local
29	SHILLONG	Z	iP	20 02 17		Slight, distant
29	SHILLONG	Z	iP	22 16 26		Feeble rarefaction
29	SHILLONG	Z	iP	23 01 37		Slight, distant compression

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
29 Contd.	DEHRA DUN	N, E		23 02 01		Feeble, phases
				[illegible] 34		not clear
	HYDERABAD	N, E	iP	23 02 [illegible]	9330	Slight
			iS	13 [illegible]		
		E	M	[illegible] 01		Period 1.5 secs
						μ = 4
		N	M	35 35		Period 1.5 secs
						μ = 4
	BOMBAY	N, E	eP	23 02 57	9950	Slight
		E	SKKS	13 29		
			eS	13 47		
			e	14 14		
			M	43 44		Period 17 secs
						μ = 2
	POONA	Z	eP	23 02 58		Tremor
	CHATRA	Z	eP	23 03 25	180	Feeble
			iS	05 47		
29	SHILLONG	Z	iP	23 50 53		Slight, distant compression
	COLOMBO	E	e	23 52 02		
			e	55 32		
30	SHILLONG	Z	eP	00 05 10		Feeble
30	SHILLONG	Z	iP	00 53 51		Slight, distant
	CHATRA	Z	iP	00 54 05	110	Feeble
			iS	54 20		
	POONA	Z	iP	00 55 22		Feeble, phases
			[illegible]	55 52		not clear
	BOMBAY	N, E	e	00 55 [illegible]		Slight
			e	01 06 02		
		E	e	07 30		
30	SHILLONG	Z	iP	01 28 19		Slight compression
	CHATRA	Z	e	01 28 45		Feeble, distant
30	SHILLONG	Z	eP	04 56 01		Slight, local
30	SHILLONG	Z	iP	06 48 18		Slight, distant rarefaction
	CHATRA	Z	e	06 48 31		Feeble, distant
30	SHILLONG	Z	eP	06 54 36		Feeble
	BOKARO	N, E	i	06 58 23		Tremor
30	POONA	Z	iP	07 49 47		Feeble
30	SHILLONG	Z	iP	09 28 26		Slight, distant rarefaction
	CHATRA	Z	e	09 [illegible] 38		Feeble, near
	POONA	Z	iP	09 29 52		Feeble
	BOMBAY	N, E	eP	09 29 53	9730	Slight
			eS	40 34		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				March 57		
30	SHILLONG	Z	iP	11 23 2		Slight, distant compression
30	SHILLONG	Z	eP	16 25 50		Feeble
30	SHILLONG	Z	iP	16 37 48		Slight, distant rarefaction
30	SHILLONG	Z	eP	17 56 03		Very feeble
30	SHILLONG	Z	iP	18 38 13		Very feeble, rarefaction
30	SHILLONG	Z	eP	19 36 57		Very feeble
31	SHILLONG	Z	iP	02 42 [illegible]		Slight, distant
31	SHILLONG	Z	iP	06 38 48		Slight, distant rarefaction
31	SHILLONG	Z	iP	10 19 44		Slight compression
	CHATRA	Z	i	10 19 56		Feeble, near
	HYDERABAD	E, N	iP	10 21 01	9320	Slight
			iS	31 35		
			M	55 [illegible]		Period 1.5 secs
						μ = 4
		N	M	55 59		Period 1.5 secs
						μ = 4
	POONA	Z	iP	10 21 12		Feeble
	BOMBAY	N, E	eP	10 21 13	9530	Slight
			eS	31 46		
31	DEHRA DUN	N, E	e	10 29 43		Feeble, phases not clear
31	SHILLONG	Z	iP	10 40 35	130	Slight
			Sg	40 51		
31	SHILLONG	Z	eP	11 17 12		Feeble
31	SHILLONG	Z	eP	13 10 49		Slight
31	SHILLONG	Z	eP	17 32 33		Slight, distant
31	SHILLONG	Z	iP	21 00 31	890	Slight, near
		N, E	iS	01 53		compression
	CHATRA	Z	iP	21 01 17	[illegible]50	Slight
			iS	03 31		
31	SHILLONG	Z	iP	21 52 23		Feeble compression

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Earthquake Reports
(*Non Instrumental Reports*)

Following is the list of Earthquakes that were reported by voluntary Observers from different stations during the month of March 1957.

Place	Date in G. M. T	Time in G. M. T h. m. s.	No. of shocks	Duration of shocks in secs.	Intensity in R.F. scale	Remarks
Mukteswar	1.3.57	15 41	5	5	VI	-
Srinagar	10.3.57	03 32	5	5	III	-
Shillong	12 3.57	11 54	1	3	II	-
Gangtok	14.3.57	09 39	2	3	II	N.E.Direction
Bandogra	14.3.57	10 04	1	10	IV	-
Katmundu	14.3.57	11 15	1	5	II	-
Shillong	17.3.57	16 37	1	10	IV	-
Gauhati	17.3.57	16 38	1	30	IV	N.E.Direction
Dhanbad	22.3.57	10 25	1	-	II	-

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S. Basu, M.Sc., F.N.I.,
Director General of Observatories

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List of Seismograph stations with their Instruments and Constants

Station	Latitude	Longitude	Height a.s.l. (Metres)	Lithographic foundation	Instrument	Comp.	Period in secs	Static Magnification	Damping ratio	Paper speed mm/min
Bombay	18°54'N	72°49'E	6	Deccan Trap	Milne-Shaw	N	12	350	13:1	16
					Milne-Shaw	E	12	350	23:1	8
					Sprengnether	E	To = Tg = 7 secs			30
Bokaro	23°50'N	85°48'E	-	Rock	Milne-Shaw	N	12	250	20:1	16
					Milne-Shaw	E	12	250	[illegible]	[illegible]
					Wood-Anderson	E	0.8	960	h=0.8	-
					Wood-Anderson	N	0.8	1000	h=0.8	60
Calcutta	22°32'N	88°22'E	(1) 7(Milne-Shaw)		Milne-Shaw	E	12	250	20:1	8
			(2) 6(Omori-Ewing)		Wood-Anderson	N	2	870	Critical	30
				Alluvium	Omori-Ewing	N	16	32	-	25.4
					Omori-Ewing	E	21	30	-	25.4
Chatra	26°50'N	87°10'E	161	Sand Stone	Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	N	1	1000	30:1	60
					Benioff	Z	To=0.72 secs	Tg=0.45 secs	Critical	60
					Wenner-Accelerograph	ZNE	-	-	-	-
Colombo	06°54'N	79°52'E	7	Beach Sand	Milne-Shaw	E	12	250	20:1	-
Dehra Dun	30°19'N	78°02'E	682	Gravel	Wood-Anderson	N	0.8	950	Critical	60
					Wood-Anderson	E	0.8	850	Critical	60
					Milne-Shaw	N	12	250	20:1	8
					Milne-Shaw	E	12	250	20:1	8
Hyderabad	17°26'N	78°27'E	536	Granite	Milne-Shaw	E	12	250	20:1	8
					Milne-Shaw	N	12	250	20:1	8
Kodaikanal	10°14'N	77°28'E	2346	Rock	Milne-Shaw	E	10	250	20:1	8
Madras	13°00'N	80°11'E	15	"	Sprengnether	E	To=Tg=.72 secs		Critical	30
New Delhi	28°35'N	77°12'E	207	Massive Quartzite						
Poona	18°32'N	73°51'E	560	Deccan Trap	Sprengnether	Z	To=Tg=1.6		Critical	30
					Wood-Anderson	E	4	1000	20:1	16
					Milne-Shaw	N	12	280	20:1	8
Port Blair	11°40'N	92°43'E	-	-	Wood-Anderson	N	2	1000	20:1	30
					Wood-Anderson	E	0.8	1000	66:1	30
					Milne-Shaw	N	12	350	20:1	8
Shillong	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)	Wood-Anderson	N	0.8	1000	h=0.8	30
					Wood-Anderson	E	0.8	1000	h=0.8	30
					Milne-Shaw	N	12	250	20:1	8
					Benioff	Z	To=1.0	Tg=0.18	-	60
					Sprengnether	E	To=Tg=6.5		Critical	30
					Wenner Accelerograph	ZNE	-	-	-	-
Tocklai	28°45'N	94°46'E	-	Alluvium	Wood-Anderson	E	0.8	970	h=0.8	60
Vizianagram	18°07'N	83°27'E	-	-	Wood-Anderson	E	0.8	1000	h=0.8	30
					Wood-Anderson	N	2	1000	20:1	30

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June 1957

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
01	SHILLONG	Z	eP	03	15	37		Slight near
01	SHILLONG	Z	eP	05	35	43		Tremor
01	SHILLONG	Z	iP	15	12	06		Feeble distant rarefaction
01	SHILLONG	Z	iP	16	16	07		Feeble distant compression
	CHATRA	Z	iP	16	16	13		Feeble
			i		19	00		
01	SHILLONG	Z	iP	16	31	40		Feeble local rarefaction
01	SHILLONG	Z	iP	17	16	53		Feeble near compression
01	SHILLONG	Z,N,E	iP	22	32	42	1290	Slight
		E	PP		32	51		rarefaction
			PPP		33	02		
		N,E	S		34	54		
		E	SS		35	05		
		N	SS		35	20		
	CHATRA	Z	iPg	22	33	45		Slight
		E	ePg					
			i		39	29		
	DEHRA DUN	N,E	e	22	35	36		Slight Phases
		N	i		39	24		not clear
			i		43	01		
			i		43	36		
	BOKARO	N,E	e	22	36	23		Slight
	HYDERABAD	N	S	22	39	20		
		E	M		47	20		Per .7 secs. μ = 2
		N	M		47	41		Per .9 secs μ = 2
	COLOMBO	E	S	22	40	32		
			L		45	50		Amp .0.2 mm
	BOMBAY	E	e	22	40	56		Very slight
			e		47	56		
02	SHILLONG	Z	eP	09	46	35		Distant slight
02	SHILLONG	Z	eP	12	10	35		Feeble, near
	CHATRA	Z	iPg	12	11	32	70	Feeble
			iSg		11	41		
02	SHILLONG	Z	iP	15	40	21		Slight near compression
02	SHILLONG	Z	iP	21	31	34		Feeble distant rarefaction
02	DEHRA DUN	N,E	e	22	09	38		Tremor
02	SHILLONG	Z	iP	23	08	10		Slight distant compression
02	CHATRA	Z	i	23	08	39		Feeble near
03	SHILLONG	Z,E	eP	13	39	15		Feeble local
	CHATRA	Z	iP	13	40	04		Slight
			i		41	29		
03	SHILLONG	Z,N,E	iPg	20	38	22	50	Slight
			iSg		38	28		
	CHATRA	Z	eP	20	39	33	530	Feeble
			iS		40	29		
04	SHILLONG	Z	iP	15	53	17		Feeble near compression
04	SHILLONG	Z	eP	17	17	43		Distant slight
04	Epc Central Sumatra H = 20h 18m 05s (U S C G S)							
	COLOMBO	E	P	20	23	32	2430	
			S		27	30		
			L		30	00		
			M		33	05		Amp .0.1 mm
	MADRAS	E	e	20	23	57		Feeble
			e		29	00		
04 Contd	SHILLONG	Z	iP	20	24	11		Slight distant compression
	CHATRA	Z	iP	20	24	38		Slight
		E	ePg					
			eS		30	18		
	DEHRA DUN	N E	eP	20	25	38	4340	Slight
		N	iS		31	38		
	BOMBAY	N E	e	20	30	36		Very slight
		E	e		33	01		
05	DEHRA DUN	N E	e	06	36	28		Tremor
05	SHILLONG	Z	iP	09	21	31		Distant feeble compression
05	PORT BLAIR	N	ePg	10	39	39	60	Slight
			iSg		39	47		
05	Epc 53°N 162½°E Off East Coast of Kamchatka H 13h 57m 42s (U S C G S)							
	SHILLONG	Z N E	iP	14	07	40	6520	Moderate
		N E	iS		15	44		rarefaction
	CHATRA	Z	iPg	14	07	56		Slight
		E	ePg					
			i		16	49		
	DEHRA DUN	N E	e	14	16	45		Feeble
05	SHILLONG	Z	eP	14	25	25		Tremor
05	SHILLONG	Z	iP	16	32	12		Feeble distant rarefaction
05	SHILLONG	Z	iP	16	44	29		Feeble distant rarefaction
05	SHILLONG	Z	eP	18	08	12		Near feeble
05	SHILLONG	Z	eP	18	53	25		Near feeble
05	COLOMBO	E	e	23	05	52		
			e		09	10		
06	SHILLONG	Z N E	iP	03	41	37		Feeble other phases not clear compression
	POONA	Z	iP	03	43	05		Tremor
06	SHILLONG	Z	iP	05	50	06		Feeble near compression
	CHATRA	Z	i	05	50	18		Feeble distant
06	SHILLONG	Z	iP	06	14	53		Feeble near compression
06	BOMBAY	E	e	08	14	42		Very slight
06	CHATRA	Z	iPg	13	15	48		Feeble
			i		16	04		
06	Epc 3°N 126½°E Moluccа Passage H 19h 49m 47s (U S C G S)							
	SHILLONG	Z N E	iP	19	57	26	4110	Moderate
		E	PP		58	58		compression
			PPP		59	31		
			PcP		59	50		
		N E	iS	20	03	18		
			Lq		05	58		
			ScS		07	36		
			Lr		08	12		
	CHATRA	Z	iP	19	58	01		Slight
			i	20	08	04		
	HYDERABAD	E	iP	19	58	41	5410	Slight Initial
			PP	20	00	38		ground movement
			PPP		01	39		towards West
			eS		05	43		
			PPS		06	11		
			ScS		08	35		
			Lr		12	08		
			M		15	53		Per .21 secs μ = 4

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June 1957

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
06 Contd	DEHRA DUN	N,E	e	19 59 11		Feeble
			i	20 06 34		
			i	08 58		
	POONA	Z	iP	19 59 12		Tremor
	BOMBAY	E	e	19 59 22		Slight
		N	e	20 07 03		
		E	e	07 16		
06	CHATRA	Z	iPg	21 35 04	90	Feeble
			iSg	35 15		
07	DEHRA DUN	N,E	e	00 06 44		Feeble
			i	11 18		
			i	12 43		
	SHILLONG	Z	iP	00 07 56		Feeble, near compression
07	CHATRA	Z,E	eP	01 07 28		Slight
		E	i	13 49		
07	SHILLONG	Z	iP	03 57 58		Slight, distant compression
07	CHATRA	Z	iPg	06 58 06	30	Feeble
			iSg	58 10		
07	CHATRA	Z	i	07 27 51		Feeble, very near
07	SHILLONG	Z,E	eP	07 42 35	200	Feeble
		E	iSg	43 04		
	CHATRA	Z	iP	07 43 36		Slight
			i	44 51		
07	SHILLONG	Z	eP	12 56 10		Feeble, near
07	SHILLONG	Z	eP	15 31 13		Feeble, distant
07	SHILLONG	Z	i	22 45 22		Tremor, distant rarefaction
07	DEHRA DUN	N,E	e	23 34 18		Tremor
08	SHILLONG	Z	eP	02 15 57		Distant, slight
08	SHILLONG	Z	iP	03 33 49		Tremor, distant rarefaction
08	CHATRA	Z	i	06 18 44		Feeble, distant
	DEHRA DUN	N,E	e	06 19 41		Tremor
08	SHILLONG	Z	iP	09 50 15	200	Feeble,
			iSg	50 44		compression
08	POONA	Z	iP	11 29 18		Tremor
08	SHILLONG	Z	iP	14 43 52		Slight, near compression
08	SHILLONG	Z	eP	20 11 14		Slight, distant
08	SHILLONG	Z	iP	21 26 27		Slight, distant compression
	BOMBAY	E	e	21 29 39		Slight
		N	e	37 34		
		E	e	40 13		
	COLOMBO	E	L	21 32 51		
			M	37 53		Amp. = 0.4 mm
	DEHRA DUN	N,E	e	21 33 30		Feeble. Phases
			e	34 19		not clear
08	SHILLONG	Z	eP	22 39 10		Tremor
09	SHILLONG	Z	eP	03 02 58		Slight, near
09	SHILLONG	Z	iPg	19 21 29	90	Feeble
			iSg	21 40		rarefaction
09	CHATRA	Z	iP	21 17 02		Slight
			i	18 01		
09	SHILLONG	Z	iP	21 17 57		Slight, distant compression
10	Epc: 90°S, 117°E. Sumbawa Islands - H = 00h 59m 54s (U.S.C.G.S)					

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s	Δ km	REMARKS
10 Contd.	COLOMBO	E	P	01 07 46		
			i	15 31		
	SHILLONG	Z,N,E	iP	01 07 57	4550	Moderate compression
		N	pP	08 19		
			sP	08 30		
			PP	09 34		
			PPP	10 06		
			iS	13 58		
			sS	14 37		
			SS	16 55		
			SSS	17 42		
	MADRAS	E	eP	01 08 06		Moderate
			PP	09 32		
			PPP	09 54		
			e	10 15		
			i	13 46		
			e	16 16		
			e	17 54		
			e	18 10		
			e	21 11		
	KODAIKANAL	E	iP	01 08 18		Slight Initial ground movement 'East'
			PPP	08 36		
			i	10 45		
			e	11 27		
			e	12 36		
	BOKARO	N,E	iP	01 08 19		Slight. Initial ground movement 'North and West'
		N	PP	08 26		
			i	10 12		
			e	10 43		
			e	11 33		
	HYDERABAD	E,N	iP	01 08 33	4940	Moderate. Initial ground movement towards 'North and West'
			PP	10 33		
		E	PcS	13 57		
		E,N	eS	15 09		
		E	SS	18 15		
			Lq	19 06		
			SSS	19 36		
			Lr	21 46		
			M	25 27		Per. = 16 secs μ = 6
	POONA	Z,N,E	iP	01 09 06	5980	Slight. Initial ground movement towards 'North and West' Compression
		N	PP	11 06		
			PPP	12 25		
			PcS	14 06		
			eS	16 40		
			PS	16 50		
			ScS	18 42		
			SS	20 11		
			SSS	21 56		
			Lr	24 33		
			M	28 50		
	BOMBAY	E	iP	01 09 14	6240	Slight
			PP	10 58		
			PPP	13 00		
			e	14 57		
			eS	17 03		
			PS	17 19		
			PPS	17 38		
			SS	21 09		
			SSS	23 09		
			Lq	23 28		
			Lr	26 01		
	DEHRA DUN	N,E	eP	01 09 29		Slight
		N	i	12 58		
			e	13 27		
			e	13 42		
			e	15 28		
10	CHATRA	Z	iP	01 30 28		Slight
		E	i	37 54		
10	Epc: 13½°N, 143½°E. Mariana Islands. H = 03h 13m 11s (U.S.C.G.S)					
	SHILLONG	Z	iP.	03 21 59		Moderate, distant compression
	CHATRA	Z	i	03 22 30		Slight, distant
	DEHRA DUN	N,E	e	03 23 29		Feeble
	POONA	Z	iP	03 23 50		Tremor
			i	24 27		

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
10	BOMBAY	E	e	03	33	25		Very slight
			e		34	40		
10	Epc 30°N 68°E Central Beluchistan, Pakistan							
	H 04h 46m 12s (U.S.C.G.S)							
	DEHRA DUN	N.E	eP	04	48	12		Slight
		N	e		50	11		
			i		50	20		
			e		50	34		
			e		50	42		
			e		50	46		
			e		57	38		
	CHATRA	Z	iP	04	50	07		Slight
		E	i		55	13		
	SHILLONG	Z	eP	04	50	55		Slight
	POONA	Z	iP	04	51	47		Tremor
	BOKARO	N.E	e	04	53	36		Tremor
	HYDERABAD	E	e	04	54	39		
10	CHATRA	Z	iP	09	57	04		Slight
			i		57	59		
	SHILLONG	Z	iP	09	57	57		Slight, distant compression
10	DEHRA DUN	N.E	e	10	00	18		Feeble
			e		04	00		
	CHATRA	Z	iP	10	01	33		Slight
			i		02	32		
	SHILLONG	Z	iP	10	02	25		Slight, near rarefaction
	BOMBAY	E	e	10	06	10		Very slight
			e		10	30		
10	SHILLONG	Z	eP	13	09	04		Slight, near
	CHATRA	Z	iP	13	09	14		Slight
			i		09	55		
10	CHATRA	Z	iPg	16	50	26	120	Slight
			iSg		50	42		
10	SHILLONG	Z	i	17	54	43		Distant tremor rarefaction
10	SHILLONG	Z	eP	19	38	11		Tremor
10	SHILLONG	Z	eP	20	06	48		Tremor
10	DEHRA DUN	N.E	e	20	36	13		Feeble
			i		37	27		
11	SHILLONG	Z	iP	04	16	28		Slight distant compression
11	SHILLONG	Z	eP	04	57	26		Slight distant
11	Epc 36½°N 670°E Hindukush h 200 Km Ca							
	H 04h 57m 24s (U.S.C.G.S)							
	DEHRA DUN	N.E	eP	04	59	29	870	Slight
		N	iS	05	01	00		
			SS		01	14		
			SSS		01	25		
	BOMBAY	N.E	eP	05	01	23		Slight
			e		04	30		
	POONA	Z	iP	05	01	25	2090	Slight
		N	PP		01	40		
		Z N	eS		04	52		
		N	SS		05	07		
			SSS		05	19		
			M		07	24		
	SHILLONG	Z	iP	05	01	57	2230	Slight
		E	iS		05	38		
	BOKARO	N.E	i	05	04	40		Slight, other phases not clear
	HYDERABAD	N.E	e	05	05	24		
		E	M		07	54		Per ~8 secs A ~3
		N	M		07	54		Per ~8 secs A ~3

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
11	KODAIKANAL Contd.	E	e	05	07	13		Tremor
11	Epc 30°S 178°W Kermadec Islands h 100 Kms							
	H 14h 49m 47s (U.S.C.G.S)							
	Mag. 6¾ 7 (Pasadena) 6¾ (Berkeley)							
	SHILLONG	Z	i	15	02	07		Distant compression
	COLOMBO	E	P	15	08	02		
			S		17	20		
			L		39	32		
			M		49	05		Amp 1.5 mm
	POONA	Z	iP	15	08	19	9680	Initial ground
		N	PP		11	34		movement
			PPP		13	29		towards North
			eS		18	58		and West
			PPS		20	19		
			SS		25	36		
			SSS		29	06		
	KODAIKANAL	E	iP	15	08	32		Initial ground
			e		17	53		movement
								towards West
			M		37	17		Per 30 secs A 28
	BOMBAY	E	e	15	09	06		Distant
			e		11	52		
			e		15	08		
		N.E	e		19	38		
		E	e		20	32		
		N.E	e		20	38		
		E	M		57	55		Per 20 secs A 12
		N	M		59	16		Per 19 secs A 5
	DEHRA DUN	N.E	e	15	03	26		Phases not
			i		15	30		clear
			i		19	15		
	HYDERABAD	E	e	15	18	24		
			M		48	57		Per 20 secs A 11
11	SHILLONG	Z	eP	16	36	35		Slight distant
11	Epc 15 4°N. 119 6°E In the Philippines							
	H 18h 49m 27s (Shillong)							
	18°N 120½°E H 18h 49m 24s (U.S.C.G.S)							
	Moderate property damage at Vigon felt throughout Northern and Central Luzon							
	SHILLONG	Z N E	iP	18	55	14	3020	Moderate. Initial
		N E	PP		56	00		ground movement
			PPP		56	10		towards East
			PcP		58	43		and South
			iS		59	50		Rarefaction
			SS	19	00	58		
			SSS		01	16		
			Lr		02	07		
			ScS		05	47		
	BOKARO	N E	eP	18	56	01	3550	Moderate
		N	iS	19	01	13		
			Lq		03	00		
			Lr		04	34		
			M		07	13		Per 30 secs A 87
	MADRAS	E	iP	18	56	55	4310	Moderate Initial
			PP		58	28		ground movement
			PcP		59	36		towards East
			PPP		58	53		
			ScP	19	02	34		
			iS		02	54		
			SS		05	39		
			Lq		05	56		
			SSS		06	19		
			ScS		06	39		
			Lr		07	45		
			M		11	04		
	HYDERABAD	E	iP	18	57	00		Moderate Initial
			PP		58	46		ground movement
			PPP		59	10		towards East
			e	19	02	39		
			i		03	19		
			e		03	33		
			e		06	10		
			e		08	49		
			e		11	52		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
11 Contd.	DEHRA DUN	N, E	eP	18 57 07	4450	Moderate
		N	PP	58 54		
			PPP	59 15		
			iS	19 03 13		
			PPS	03 37		
			SSS	06 25		
			Lr	08 33		
			M	11 13		
	COLOMBO	E	P	18 57 10	4500	
			S	19 03 20		
			L	10 20		
			M	16 52		Amp. ≈1.1 mm
	KODAIKANAL	E	iP	18 57 26	4680	Moderate Initial ground movement 'East'
			PP	59 47		
			iS	19 03 47		
			SS	06 53		
			SSS	07 44		
			Lr	09 32		
			M	13 02		Per. ≈ 20 secs μ ≈ 8
	POONA	Z	iP	18 57 35	4810	Moderate. Initial ground movement towards 'East'
		N, E	PP	59 25		
		E	PPP	19 00 01		
		N, E	iS	04 03		Rarefaction
		N	PPS	04 22		
			SS	07 22		
			Lq	08 00		
			Lr	10 03		
			M	12 52		Per. ≈ 15 secs μ ≈ 16
	BOMBAY	N, E	iP	18 57 45	4930	Moderate
		E	PP	59 32		
			PPP	19 00 18		
		N, E	iS	04 20		
		E	PS	04 29		
			PPS	04 38		
		N, E	PPS	04 46		
			SS	07 51		
		N	e	08 08		
		E	Lq	08 23		
			Lr	10 56		
		N	M	18 18		Per. ≈ 11 secs μ ≈ 5
		E	M	18 20		Per. ≈ 12 secs μ ≈ 7
11	SHILLONG	Z	i	19 21 08		Feeble, local rarefaction
11	SHILLONG	Z, E	iPg	23 14 44	70	Slight, local
			e	14 50		
			iSg	14 51		
11	SHILLONG	Z, N, E	iPg	23 35 44	130	Slight
		N, E	iSg	36 00		
12	Epc: 52°N, 176°W. Andrewnof Islands in the Aleautians ≈ H ≈ 23h 53m 57s (U.S.C.G.S)					
	SHILLONG	Z, N, E	iP	00 05 20	7900	Slight
		E	eS	14 37		compression
	DEHRA DUN	N, E	e(P)	00 05 45	8450	Feeble
			i(S)	15 28		
	POONA	Z	iP	00 06 47		Slight, distant
		N	e	09 15		Other phases not
			e	17 24		clear
12	SHILLONG	Z	iP	00 10 33		Slight, distant rarefaction
12	BOMBAY	N	e	00 17 18		Slight
			e	17 33		
			e	17 45		
			e	23 56		
		E	M	46 42		Per. ≈ 19 secs μ ≈ 3
		N	M	49 16		Per. ≈ 18 secs μ ≈ 1
	COLOMBO	E	P	00 17 30		
			M	52 22		Amp. ≈ 0.2 mm
	HYDERABAD	E	M	00 39 40		Per. ≈ 18 secs μ ≈ 6
12	SHILLONG	Z	iP	03 10 49		Feeble, near compression
12	Epc: 41½°N. 142½°E. Near South Coast of Hokkaido, Japan. ≈ H ≈ 08h 28m 34s (U.S.C.G.S)					
	SHILLONG	Z, N, E	iP	08 36 49	5000	Moderate
		E	PP	37 10		compression
			sP	37 27		
			P*	38 37		
			PPP	39 20		
		N, E	iS	43 18		
		E	sS	43 53		
			SS	46 46		
	CHATRA	Z	iP◊	08 37 11	5550	Slight
		E	eP◊			
			iS	44 22		
	DEHRA DUN	N, E	eP	08 37 59		Feeble
			i	45 19		
	POONA	Z	iP	08 38 56		Slight Phases
			i	39 03		not clear
			i	39 43		
		E	i	42 26		
	COLOMBO	E	P	08 44 --		
			M	09 13 20		Amp ≈ 03 mm
	BOMBAY	E	e	08 47 29		Very slight
		N	e	47 44		
		E	e	47 49		
		N	M	09 10 --		
		E	M	15 --		
12	SHILLONG	Z	iP	11 15 59		Feeble, near compression
12	SHILLONG	Z	iP	11 43 01	170	Feeble, local
			iSg	43 22		compression
12	SHILLONG	Z	iPg	18 17 37		Feeble, local
13	Epc: 53.5°N, 173.3°W In the Aleautians ≈ H ≈ 10h 40m 36s (Shillong) 51½°N. 175°W ≈ H ≈ 10h 40m 30s (U.S.C.G.S) Mag. ≈ 7 (Pasadena).					
	SHILLONG	N	iP	10 52 02	7970	
			PcP	52 24		
			PP	54 47		
			PPP	56 13		
			iS	11 01 21		
			SKS	02 06		
			SS	05 21		
			Lq	11 05		
			Lr	14 44		
	DEHRA DUN	N, E	eP	10 52 31	8380	
		N	PP	55 23		
			iS	11 02 11		
			PS	02 52		
			SS	07 42		
			SSS	09 58		
			Lq	11 39		
			Lr	15 26		
			M	21 58		
	BOKARO	N, E	iP	10 52 35	8530	Initial ground
		E	PcP	52 44		movement
			iS	11 02 22		towards 'South
			PS	02 52		and West'
			PPS	03 24		
	PORT BLAIR	N	iP	10 53 09	9200	Slight
			eS/SKS	11 03 27		
	HYDERABAD	E	iP	10 53 25	9660	Initial ground
			PP	56 46		movement
			PPP	58 53		towards 'West'
			SKS1	11 03 45		
			iS	04 03		
			ScS	04 19		
			SS	09 58		
			PKKP1	11 22		
			Lr	21 43		
			M	26 04		Per. ≈ 18 secs μ ≈ 20
	POONA	Z	iP	10 53 37	9710	Initial ground
		Np	PP	56 58		movement to-
			PPP	59 05		wards 'South
		N, E	eS	11 04 12		and West'
		N	PS	05 16		Compression

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
13	POONA	N	PPS	11	05	57		
Contd	Contd		SS		10	11		
			SSS		13	48		
			Lq		18	28		
			Lr		22	29		
			M		27	20		
			Mn		37	--		Per 17 secs
								μ 19 6 mm
	BOMBAY	N E	iP	10	53	35	9710	
			PP		57	00		
			PPP		58	01		
			iS	11	04	15		
		E	PS		05	02		
		N	PS		05	29		
		E	PPPS		05	47		
		N E	SS		10	36		
			SSS		14	10		
		N	Lq		17	44		
			M		35	48		Per 20 secs
								μ 26
		E	M		36	03		Per 26 secs
								μ 33
	MADRAS	E	iP	10	53	38	9780	Ground movement
			PP		57	13		East
			PPP		59	14		
			iS	11	04	21		
			PS		05	33		
			SS		10	27		
			SSS		13	54		
			Lq		17	53		
			Lr		22	19		
			M		28	10		
	KODAIKANAL	E	iP	10	53	55	9910	Initial ground
			PP		57	31		movement East
			PPP		59	28		
			iS		04	43		
			SS	11	11	07		
			SSS		14	49		
			Lq		19	49		
			Lr		24	13		
			M		32	04		Per 17 secs
								μ 13
	COLOMBO	E	P	10	54	00	9910	
			S	11	04	48		
			L		30	--		
			M		41	00		Amp 1 5 mm
13	SHILLONG	Z	iP	15	18	27		Slight distant compression
13	SHILLONG	Z	iP	20	27	25		Moderate distant rarefaction
13	CHATRA	Z	i	20	28	02		Slight distant
13	DEHRA DUN	N E	e	20	34	58		Tremor
13	SHILLONG	Z	iP	21	34	53		Slight distant compression
	CHATRA	Z	iP	21	35	29		Slight
			i		37	12		
	DEHRA DUN	N E	e	21	36	34		Tremor
13	DEHRA DUN	N E	e	23	26	43		Tremor
14	CHATRA	Z	iP	00	31	35		Slight
			i		31	57		
14	DEHRA DUN	N E	e	06	21	53		Tremor
14	Epc 52°N 175½°W In the Aleautians							
	H = 0h 24m 00s (U S C G S)							
	Mag = 5½ (Berkeley)							
	SHILLONG	Z	iP	06	35	42		Compression
	CHATRA	Z	i	06	35	55		
	DEHRA DUN	N E	e	06	36	13		HPhases not
			e		45	42		clear
	POONA	Z	iP	06	37	09	9510	Other phases
		N	eS		47	41		not clear
			e		49	05		
	BOMBAY	N E	eP	06	37	13	9510	
			eS		47	45		
		E	M	07	16	37		Per 26 secs
								μ 4

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
14	Epc 32°N 67°E Southern Afganistan							
	H = 11h 36m 49s (U S C G S)							
	Damage at Kandahar Mohammedkila and Khalakhund							
	DEHRA DUN	N E	eP	11	39	15	1000	Slight
		N	Lq		40	48		
			iS		40	58		
			SS		41	13		
			Lr		41	19		
			SSS		41	22		
			Sg M		41	55		
	BOMBAY	N E	eP	11	39	50		Slight
		E	e		43	21		
			e		44	41		
		N	M		48	--		
		E	M		48	31		Per 10 secs
								μ 4
	HYDERABAD	N	eP	11	41	00	3460	
			eS		46	03		
			PcS		47	19		
			Lq		47	53		
			SSS		48	18		
			Lr		48	57		
			M		51	45		Per 9 secs
								μ 2
			Mn		52	03		Per 9 secs
								μ 3
	CHATRA	Z	iP	11	41	07		Slight
		E	i		47	26		
	BOKAROO	N E	eP	11	41	09		Slight other
			e		44	20		phases not clear
	SHILLONG	Z N E	iP	11	41	35	2890	Moderate
		N E	PP		42	24		Compression
			PPP		42	33		
			iS		46	04		
			SS		46	50		
			SSS		47	08		
			Lr		47	28		
			M		49	36		
	POONA	Z	i	11	44	02		Feeble
		N	i		45	20		
	COLOMBO	E	P	11	47	31		
			e		52	16		
	MADRAS	E	e	11	49	07		Phases not
			e		53	32		clear
			e		54	32		
			e		55	37		
	KODAIKANAL	E	e	11	49	16		Tremor
15	Epc 34°S 56°E Indian Ocean							
	H = 00h 44m 15s (U S C G S)							
	Mag = 6 6¼ (Pasadena)							
	POONA	Z	iP	00	53	47	6130	
		N	PP		55	52		
			PPP		57	07		
			iS	01	01	30		
			PS		01	42		
			PPS		01	45		
			SS		05	09		
			SSS		07	03		
			Lr		09	40		
	BOMBAY	E	eP	00	53	49		
			i	01	01	30		
			M		12	19		Per 19 secs
								μ --
	DEHRA DUN	N E	eP	00	55	14		Other phases
		N	i	01	04	21		not clear
			e		08	35		
			e		09	27		
	SHILLONG	Z,N,E	iP	00	55	17	7640	Distant
		N E	PcP		55	42		Rarefaction
		E	PPP		59	30		
		N E	iS	01	04	21		
		E	PS		04	42		
			SKS		05	10		
			SS		08	47		
			Lq		13	13		
			M		16	07		
	COLOMBO	E	P	00	59	31		
			e	01	07	30		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
15 Contd.	KODAIKANAL	E	e	01	00	06		
	HYDERABAD	E	e	01	01	43		
			e		10	45		
15	PORT BLAIR	N	iPg	03	00	35	10	Slight
			iSg		00	35		
15	CHATRA	Z	iP	07	49	46		Slight
		E	i		50	25		
	SHILLONG	Z	iP	07	50	30		Slight, distant compression
15	SHILLONG	Z	iP	08	31	02		Slight, distant Rarefaction
15	CHATRA	Z	iP	08	52	18		Slight
		E	i		52	56		
	SHILLONG	Z	eP	08	53	00		Tremor
15	Epc: 52°N, 171°W. In the Aleutians - H = 18h 18m 20s (U.S.C.G.S) Mag: 6 (Berkeley)							
	SHILLONG	Z,N,E	iP	18	29	59	8180	Compression
		N,E	iS		39	29		
		E	SKS		40	05		
			PPS		40	29		
	CHATRA	Z	i	18	30	09		Distant
	DEHRA DUN	N,E	eP	18	30	19		
			e		45	44		
	POONA	Z	iP	18	31	21		
15	SHILLONG	Z	iP	22	18	59		Feeble near
16	SHILLONG	Z	e	02	29	06		Tremor
16	SHILLONG	Z	eP	07	22	06		Near, feeble
16	SHILLONG	Z	iP	09	37	34		Near, feeble compression
16	SHILLONG	Z	e	12	04	09		Tremor
16	SHILLONG	Z	eP	12	33	46		Slight, near
16	DEHRA DUN	N,E	e	14	48	37		Tremor
16	SHILLONG	Z,E	iPg	15	32	58	90	Feeble
			iSg		33	08		
	CHATRA	Z	eP	15	33	51	660	Feeble
			iS		35	00		
16	SHILLONG	Z	i	18	56	28		Tremor compression
16	DEHRA DUN	N,E	e	22	28	46		Feeble
			e		30	18		
	SHILLONG	Z	eP	22	31	01		Tremor
16	SHILLONG	Z	eP	23	50	33		Tremor
17	SHILLONG	Z	iP	05	17	20		Slight, distant
17	SHILLONG	Z	i	07	43	54		Tremor
17	SHILLONG	Z	iP	10	20	08		Slight, near compression
	CHATRA	Z	iPg	13	25	31	20	Feeble
			iSg		25	34		
18	Epc: 14.6°N, 95.2°E. Gulf of Martaban (Burma) - H = 02h 12m 20s (Shillong) 14½°N, 96°E. - & = 02h 12m 12s (U.S.C.G.S) Mag. 6 (Shillong)							
	PORT BLAIR	N	iP	02	13	23	550	
			Pg		13	39		
			eS		14	11		
			Sg		14	31		
	SHILLONG	Z,N,E	iP	02	15	00	1210	Compression
		E	PP		15	07		Initial ground movement North and West
			PPP		15	15		
			iS		17	04		
			SS		17	17		
			Lr		17	24		
			M		18	27		
			PcP		29	52		
18	BOKARO	N,E	eP	02	15	24	1480	
		E	PPP		15	42		
			Lq		17	42		
			eS		17	54		
			SSS/Lr		18	22		
			M		19	42		Per. = 11 secs μ = 16
		N	M		19	42		Per. = 21 secs μ = 119
	MADRAS	E	iP	02	15	49	1610	Ground movement towards East
			PP		15	00		
			PPP		16	07		
			Lq		18	29		
			eS		18	31		
			SS		18	48		
			SSS		18	58		
			Lr		19	09		
			M		20	27		
			PcS		24	21		
	CHATRA	Z	iP	02	15	49	1850	Slight
			iS		18	54		
	HYDERABAD	E	iP	02	16	13	1980	Initial ground movement towards East
			PP		16	34		
			PPP		16	45		
			iS		19	30		
			SS		19	48		
			Lr		20	20		
			M		21	42		Per. = 15 secs μ = 14
	KODAIKANAL	E	iP	02	16	30	2430	Initial ground movement East
			PP		16	57		
			PPP		17	09		
			iS		20	27		
			Lq		20	57		
			SS		21	15		
			SSS		21	27		
			Lr		22	00		
			M		24	00		Per. = 15 secs μ = 36
	POONA	Z	iP	02	17	07	2410	Initial ground movement to wards South
			PP		17	28		
			PPP		17	38		
		N	iS		21	02		and East
		E	i		21	13		Rarefaction
		N	Lq		21	32		
		Z	SS		21	50		
		N	SSS		22	11		
			Lr		22	44		
			PcS		24	29		
			Mn		27	--		Per = 12 secs Amp. = 16.9 mm
	BOMBAY	N	eP?	02	17	17	2520	
		E	iP?					
		N,E	PP		17	46		
			PPP		18	02		
			e		18	53		
		N	e		19	45		
		E	PcP		20	33		
		N	eS		21	22		
		E	i		21	33		
		N,E	Lq		22	05		
		N	SS		22	19		
		E	SS		22	26		
		N	Lr		22	39		
			M		31	41		Per. = 13 secs μ = 15
		E	M		33	49		Per. = 16 secs μ = 21
	DEHRA DUN	N,E	eP	02	17	21	2600	
		N	PPP		18	06		
			iS		21	31		
			SS		22	19		
			SSS		22	45		
			Lr		23	27		
			M		25	26		
18	SHILLONG	Z	iP	05	25	36		Slight near rarefaction.
18	SHILLONG	Z	eP	06	42	16		Slight, distant
	CHATRA	Z	i	06	43	04		
	DEHRA DUN	N,E	e	06	48	46		Feeble
18	SHILLONG	Z	eP	09	01	27		Slight, distant
	CHATRA	Z	iP?	09	01	45		Slight
		E	eP?					
			e		05	08		
	KODAIKANAL	E	e	09	04	00		Tremor

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DATE	STATION	COMPT	PHASE	h	M m	S s	Δ Km	REMARKS
18 Contd	BOMBAY	N E	e	09	09	18		Surface waves
		E	e		10	34		
	DEHRA DUN	N E	e	09	07	43		Feeble
18	SHILLONG	Z		13	24	41		Slight distant
	CHATRA	Z	eP	13	27	21		Feeble
			i		28	00		
	DEHRA DUN	N E	e	11	32	34		Feeble
18	Epc 14°N. 96°E. Burma after shock H 14h 48m 17s (U S C G S)							
	PORT BLAIR	N	iP	14	49	31	550	Moderate
			Pg		49	47		
			eS		50	19		
			Sg		50	39		
	SHILLONG	Z,N,E	iP	14	51	07	1210	Moderate near First ground movement to wards North and West
		N,E	PP		51	14		
			PPP		51	22		
			iS		53	10		
			SS		53	25		
			Lr		53	34		
			M		54	35		
			PcP		57	10		
	BOKARO	N E	eP	15	51	31	1530	Moderate
		E	PPP		51	45		
			Lq		53	59		
			eS		54	06		
			SSS/Lr		54	40		
			M		55	52		Per 21 secs Amp 175 mm
	CHATRA	Z	eP	14	51	50		Slight
			s		55	04		
	MADRAS	E	iP	14	51	57	1510	Moderate ground movement East
			PP		52	04		
			PPP		52	12		
			Lq		54	34		
			eS		54	39		
			SS		54	57		
			SSS		55	05		
			Lr		55	13		
			M		56	34		
			PcP		56	53		
			PcS	15	00	24		
	COLOMBO	E	P	14	52	23	2100	
			S		55	51		
			L		59	19		
			M	15	00	35		Amp 5.5 mm
	KODAIKANAL	E	iP	14	52	38	2430	Moderate. Initial ground movement East
			PP		53	05		
			PPP		53	17		
			iS		56	35		
			Lq		57	05		
			SS		57	23		
			SSS		57	35		
			Lr		58	08		
			M	15	00	05		Per 17 secs A 50
	POONA	Z	iP	14	53	14	2550	Moderate. Initial ground movement South and East Rarefaction
		N	PP		53	25		
			PPP		53	45		
			i		57	07		
		E	iS		57	21		
		N	SSS		58	04		
			Lr		58	34		
			M		59	59		
			Mn	15	07			Per 32.7 secs A 34.7
	BOMBAY	N	ePg	14	53	24	2710	Moderate
		E	iPg					
		N E	PPP		54	06		
		E	i		54	52		
		N	eS		57	30		
		E	i		57	42		
		N,E	Lq		58	10		
			SS		58	26		
			SSS		58	54		
			Lr		59	35		
		N	M	15	07	49		Per 15 secs A 39
		E	M		09	48		Per 11 secs A 27

DATE	STATION	COMPT	PHASE	h	M m	S s	Δ Km	REMARKS
18 Contd.	DEHRA DUN	N E	eP	14	53	27	2210	Moderate
		N	PPP		54	14		
			iS		57	38		
			SS		58	28		
			SSS		58	47		
			Lr		59	25		
			M	15	03	57		Per 12 secs
18	SHILLONG	Z	eP	17	10	54		Tremor
18	SHILLONG	Z N E	iP	18	09	13		Moderate very distant compression other phases not clear
	COLOMBO	E	P	18	09	49	7080	
			S		19	53		
			L		41	45		
			M		50	51		Amp 1.2 mm
	BOMBAY	S E	eP	18	13	32	9470	Slight
		N	SKKS1		23	43		
		N E	eS		24	02		
		E	PPS		25	10		
			SS		29	30		
			SSS		33	05		
			M		56	35		Per 23 secs A 9
		N	M		38	05		Per 18 secs A 2
	KODAIKANAL	E	e	15	20	25		Tremor
	DEHRA DUN	N E	e	18	22	08		Feeble Phases not clear
			i		22	26		
18	SHILLONG	Z	eP	21	36	52		Feeble near
	CHATRA	Z	iP	21	37	35		Feeble
			i		38	52		
18	PORT BLAIR	N	e	23	17	40		Slight
	SHILLONG	Z	eP	23	09	23		Slight distant
19	KODAIKANAL	Z	e	02	30	46		Tremor
19	SHILLONG	Z	eP	04	32	05		Near feeble
	CHATRA	Z	iP	04	32	14		Slight
			i		32	46		
19	SHILLONG	Z	iP	05	20	59		Slight distant compression
19	SHILLONG	Z	i	05	32	46		Tremor
19	DEHRA DUN	N E	e	06	54	26		Tremor
19	Epc 16½°S. 176½°E. Fiji Islands H 08h 01m 30s (U S C G S) Mag. 6½ (Pasadena)							
	COLOMBO	E	P	08	13	23		
			e		25	59		
			e		55	21		
			e	09	02	21		
	SHILLONG	Z N E	iP	08	14	45		Distant other phases not clear Rarefaction
	DEHRA DUN	N E	e	08	20	07		Phases not clear
			i		26	31		
			e		27	48		
			i		30	17		
			i		35	15		
			i		40	42		
	BOMBAY	E	e	08	20	22		
		N	e		21	24		
		E	e		21	36		
			e		22	43		
			e		25	58		
			e		26	45		
		N	e		28	09		
		E	e		28	57		
			e		29	54		
	MADRAS	E	e	08	26	05		
			e		30	41		
			e		33	57		

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DATE	STATION	COMPT	PHASE	G.M.T. h	m	s	Δ km	REMARKS
19 Contd.	KODAIKANAL	E	e	08	26	22		
19	SHILLONG	Z	iP	16	00	02		Feeble onset
19	CHATRA	Z	iPg	19	14	22	80	Feeble
			iSg		14	33		
20	SHILLONG	Z	iP	00	38	54		Distant [illegible]
20	SHILLONG	Z N E	iP	01	15	24		Slight distant Rarefaction other phases not clear
	CHATRA	Z	iP	01	15	59		Slight
		E	ePδ					
			i		24	15		
	DEHRA DUN	N,E	e	01	25	47		Feeble
20	KODAIKANAL	E	e	04	34	55		Tremor
20	SHILLONG	Z	iP	08	18	27		Feeble near compression
20	SHILLONG	Z	eP	08	52	34		Feeble near
20	CHATRA	Z	iPg	14	52	01	90	Feeble
			iSg		52	22		
20	CHATRA	Z	iPg	20	45	25	40	Feeble
			iSg		45	31		
20	CHATRA	Z	i	20	49	16		Tremor
20	CHATRA	Z	iPg	20	52	34	50	Feeble
			iSg		52	41		
20	CHATRA	Z	i	21	01	37		Feeble near
21	PORT BLAIR	N	ePg	02	17	11	70	Slight
			iSg		17	19		
21	SHILLONG	Z	iP	15	01	26		Feeble local rarefaction
21	SHILLONG	Z	i	15	50	34		Tremor
21	SHILLONG	Z	i	16	51	09		Tremor
21	SHILLONG	Z	i	17	30	05		Tremor
21	SHILLONG	Z	iP	18	04	39		Slight distant compression
21	CHATRA	Z	i	18	47	58		Slight distant
	POONA	Z	iP	18	49	30		Feeble
	DEHRA DUN	N,E	e	18	56	49		Feeble
21	SHILLONG	Z	e	20	34	52		Tremor
	DEHRA DUN	N,E	e	21	37	58		Feeble
			i		39	51		
	CHATRA	Z	i	21	39	01		Feeble distant
21	SHILLONG	Z	e	22	06	28		Tremor
21	SHILLONG	Z N E	iP	23	22	37	1050	Slight compression
		E	eS		24	26		
			SSS		24	50		
	CHATRA	Z	eP	23	23	42		
		E	i		27	47		
	DEHRA DUN	N,E	e	23	25	31		Feeble. Phases not clear
			i		29	29		
			i		33	09		
	BOMBAY	E	e	23	30	03		Very slight
		N	e		35	56		
		E	e		36	36		
21	SHILLONG	Z N E	iP	23	42	00		Distant slight compression Other phases not clear
22	SHILLONG	Z N E	iPg	00	53	47	30	Feeble
		E	iSg		53	51		
22	DEHRA DUN	N E	e	05	05	02		Tremor
	SHILLONG	Z	i	05	05	15		Tremor
22	SHILLONG	Z	e	06	38	23		Tremor
	CHATRA	Z	i	06	38	34		Feeble distant
	DEHRA DUN	N E	e	06	38	38		Slight Phases not clear
			i		41	48		
			i		45	28		
			i		47	40		
			i		52	49		
			i		56	29		
22	SHILLONG	Z	i	07	00	54		Tremor
22	POONA	Z	iP	08	38	41		Feeble
			i		38	57		
22	CHATRA	Z	iPg	13	07	58	80	Slight
			iSg		07	17		
22	SHILLONG	Z	i	14	40	23		Tremor
22	SHILLONG	Z	i	16	44	25		Tremor
22	SHILLONG	Z	i	18	05	42		Tremor
22	Epc. 1°S. 137°E.							Near North Coast of New Guinea
				H	23h	50m	35s	(Shillong)
	1½°S. 137°E.			H	23h	50m	23s	(U S C G S)
	Mag. 7¾ (Shillong), 7¾ (Pasadena)							
	PORT BLAIR	N	eP	23	58	53	4950	
			iS	00	05	28		
	SHILLONG	Z N E	iP	23	59	22	5550	Compression
		N E	ePP	00	01	52		First ground movement West and North
			PP		02	29		
			PPP	00	03	32		
			PcS		05	33		
			iS		06	43		
			ScS		09	21		
			sS		10	31		
			SSS Lq		11	49		
			Lr		14	12		
	CHATRA	Z E	iP	00	00	09	6110	
			iS		07	45		
	BOEANG	N E	iP	00	00	05	6190	Deep focus
		N	PcP		00	56		
			pP		01	20		
			PP		01	58		
			PPP		03	26		
			iS		07	51		
			sS		10	01		
			Lq		13	20		
	MADRAS	E	iP	00	00	20	6250	Ground movement West
			PcP		01	20		
			PP		02	31		
			PPP		03	54		
			ScP		05	00		
			eS		08	10		
			PS		08	22		
			PPS		08	31		
			ScS		09	46		
			SS		11	44		
			SSS		14	18		
			Lq		14	40		
			Lr		17	18		
			M		22	13		
	COLOMBO	E	iP	00	00	30	6440	
			S		08	20		
			L		19	35		
			M		23	55		Amp 8 3 mm
	HYDERABAD	E	iP	00	00	37	6690	Initial ground movement East
			PcP		01	33		
			PP		02	53		
			PPP		04	09		
			PcS		04	57		
			iS		08	51		
			PS		09	14		
			ScS		10	34		
			SS		12	46		
			SSS		15	50		
			Lq		16	24		
			Lr		19	24		
			M		24	40		Per 24 sets D 73

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DATE	STATION	COMPT	PHASE	G h.	M m.	T s.	Δ km	REMARKS
22 Contd	KODAIKANAL	E	iP	00	00	38	6720	Initial ground movement West
			PP		12	47		
			PPP	01	04	14		
			iS		08	53		
			PPS		09	17		
			SS		12	56		
			SSS		15	35		
			Lq		16	14		
			Lr		19	11		
			M		24	20		Per. 20 secs
								A =65
	DEHRA DUN	N,E	e	00	01	03		
			i		04	00		
			i		13	53		
			i		17	25		
	POONA	Z	iP	00	01	07	7090	Initial ground movement South and East rarefaction
		N	PcP		01	44		
			PP		03	34		
			PcS		05	37		
			iS		09	42		
			PPS		10	23		
			SKS1		10	54		
			SS		16	41		
			Lq		17	43		
			Lr		20	53		
			PKKS1		24	35		
			M		25	25		Per. 26 secs
								A 127
	BOMBAY	N	eP?	00	01	19	7220	
		E	iP?					
		N,E	PcP		01	43		
		E	PP		03	47		
			PPP		05	13		
			PcS		05	41		
		N	e?		06	00		
		E	i?					
		E	i		06	24		
		N,E	iS		10	01		
		E	PS		10	17		
		N,E	PPS		10	36		
		N	ScS		11	00		
		E	SKS1		11	13		
		N	SS		14	24		
		E	SS		14	34		
		N,E	SSS		17	02		
			Lq		17	44		
			e		18	20		
		N	e		19	29		
		N,E	e		20	05		
		E	Lr		21	24		
		N	M		27	16		Per. 25 secs
								A 85
		E	M		32	40		Per. 19 secs
								A 53
23	CHATRA	Z	iPg	01	18	11	110	Feeble
			iSg		18	25		
23	CHATRA	Z	i	03	39	53		Slight distant
23	SHILLONG	Z	iPg	08	27	14	90	Feeble, near
			iSg		27	25		Rarefaction
23	POONA	Z	eP	10	16	07		Feeble
23	CHATRA	Z	iPg	19	02	27	100	Feeble
			iSg		02	40		
23	CHATRA	Z	i	20	29	17		Feeble, near
24	CHATRA	Z	iP	05	54	57		Slight
		E	i		56	12		
	DEHRA DUN	N,E	e	05	55	33		Feeble
			i		56	47		
	SHILLONG	Z	iP	05	55	45		Slight distant Compression
24	DEHRA DUN	N,E	e	10	24	45		Tremor
24	SHILLONG	Z	iP	11	29	08		Slight distant Compression
	CHATRA	Z	i	11	29	37		Feeble, distant
	DEHRA DUN	N,E	e	11	38	17		Feeble. Phases not clear
	COLOMBO	E	e	11	55	11		
			e		58	31		
24	DEHRA DUN	N,E	e	12	16	01		Feeble
			i		18	17		
24	SHILLONG	Z N E	iPg	19	43	06	20	Feeble Compression
			iSg		43	39		
	CHATRA	Z	iP	19	44	07		Slight
			i		45	46		
25	CHATRA	Z	iP	07	10	36		Feeble
			i		11	12		
25	SHILLONG	Z	iPg	08	30	51		Local, feeble Compression
25	CHATRA	Z	iP	10	07	44		Feeble
			i		08	02		
	SHILLONG	Z	[illegible]	10	10	23		Tremor
25	Epc 10°N 94°E Andaman Islands Region. H 10h 11m 17s (U.S.C.G.S.)							
	PORT BLAIR	N	iP	10	11	52	250	Slight
			P*		11	55		
			Pg		12	00		
			Lq		12	13		
			eS		12	21		
			Sg		12	34		
	MADRAS	E	eP(?)	10	14	34	2430	Slight
			PP		15	01		
			PPP		15	13		
			eS?		18	32		
			Lq		18	59		
			SS		19	18		
			SSS		19	31		
			Lr		20	02		
			M		21	57		
	SHILLONG	Z	eP	10	15	01		Slight
	CHATRA	Z	iP	10	15	27	2000	Slight
			i		18	46		
	BOMBAY	E	e	10	16	28		Very slight
		N,E	e		20	29		
	DEHRA DUN	N,E	eP	10	16	46	2970	Slight
		N	PPP		17	41		
			iS		21	21		
			SS		22	39		
			SSS		23	12		
			M		25	52		
	COLOMBO	E	L	10	22	22		
			M		25	35		Amp 0.6 mm
25	SHILLONG	Z	eP	10	09	41		Tremor
	CHATRA	Z	i	10	10	08		Feeble near
26	SHILLONG	Z	iPg	00	03	31	120	Feeble
			iSg		03	45		rarefaction
26	Epc 7½°S 85½°E East of Chagos Archipelago in the Indian Ocean H 02h 47m 36s (U.S.C.G.S.)							
	PORT BLAIR	N	eP	02	52	20	2190	Slight
			eS		55	56		
			e		56	12		
	MADRAS	E	iP	02	52	21	2250	Slight, ground movement East
			PP		52	44		
			PPP		52	56		
			iS		56	12		
			SS		56	50		
			SSS		57	01		
			Lr		57	27		
			M		59	25		
	POONA	Z	iP	02	53	31		Slight, phases not clear
	SHILLONG	Z	iP	02	54	18		Slight distant Rarefaction
	CHATRA	Z	i	02	54	25		Feeble near
	DEHRA DUN	N,E	e	02	54	58		Slight, phases
			i		56	44		not clear
			i	03	00	51		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
26 Contd.	BOMBAY	E	e	02	57	22		Slight
		N	e		57	39		
		E	e	03	00	58		
		N	e		01	40		
	COLOMBO	E	P	03	50	48		
			e		54	15		
			e	04	01	48		
			e		05	05		
26	SHILLONG	Z	iP	16	59	41		Slight, distant Compression
26	SHILLONG	Z	e	19	23	33		Tremor
26	SHILLONG	Z	iP	20	35	55		Feeble, near Compression
26	SHILLONG	Z, E	eP	20	41	47	220	Feeble
		E	iSg		42	19		
27	Epc: 60°N, 120°E. U.S.S.R. - H =00h 09m 00s (Shillong) 56½°N, 116°E. -H =00h 09m 28s (U.S.C.G.S) Mag.: 8.0 (Shillong), 7½(Pasadena) Damage at Chita.							
	SHILLONG	Z, N, E	iP	00	16	28	4380	
		N, E	PP		17	52		
			PPP		18	13		
			PcP		18	51		
		N	iS		22	24		
		N, E	SS/Lq		24	40		
			SSS		25	09		
			Lr/ScS		26	28		
	CHATRA	Z, E	iP	00	16	34		
		E	i		22	26		
	DEHRA DUN	N, E	eP	00	16	47	4430	
		N	PP		18	22		
			PPP		19	03		
			iS		22	52		
			SS		25	33		
			Lq		26	33		
			SSS		27	08		
			Lr		28	31		
			M		31	47		Per. =15 secs Amp. =106 mm
	BOKARO	N, E	iP	00	17	07	4420	
		E	PP		18	45		
			PPP		19	21		
			iS		23	12		
			SS		26	12		
			Lr		28	45		
			M		31	56		Per. =19 secs Amp. =274 mm
	PORT BLAIR	N	iP	00	18	17	5670	
			ScP		23	39		
			eS		25	33		
	POONA	Z	iP	00	18	20		Initial ground movement towards 'North' Rarefaction
		N	PcP		10	42		
			PP		20	15		
			e		23	45		
			e		25	46		
			e		28	21		
			e		29	15		
			e		30	45		
			e		32	51		
			M		36	21		
			Mn		39	--		Per. =13 secs Amp. =427 mm
	BOMBAY	N, E	iP	00	18	24	5450	
		E	PcP		19	52		
		N, E	PP		20	24		
			PPP		21	21		
		N	eS		25	29		
		E	iS					
		N, E	PS		25	36		
		E	SS		29	06		
			SSS		30	32		
			M		37	--		Per. =12 secs A =278
		N	M		40	33		Per. =10 secs A =271
	MADRAS	E	eP	00	18	38	5970	
			PcP		19	35		
			PP		20	35		
			PPP		21	52		
			ScP		23	28		
			eS		26	11		
			SS		29	51		
			Lq		31	54		
27	KODAIKANAL	E	iP	00	19	10	6220	Initial ground movement East
			PP		21	16		
			PPP		22	31		
			iS		26	58		
			PPS		27	19		
			SS		30	40		
			SSS		32	43		
			Lq		32	55		
			Lr		35	37		
			M		40	13		Per. =10 secs Amp. =157 mm
	COLOMBO	E	iP	00	19	23		
			iS		27	16		
			L		44	19		
			M		50	21		Amp. =27 0 mm
27	SHILLONG	Z	iPg	04	10	38		Feeble, local Rarefaction
	CHATRA	Z	i	04	11	13		Feeble, near
27	SHILLONG	Z	e	04	18	32		Tremor
27	DEHRA DUN	N, E	e	06	45	55		Tremor
	CHATRA	Z	iPg	06	46	12	20	Feeble
			iSg		46	15		
27	SHILLONG	Z, N, E	eP	06	57	10	740	Feeble, local
		N, E	iS		58	27		
	CHATRA	Z	iP	06	57	47		Feeble
			i		59	10		
27	SHILLONG	Z	e	07	19	37		Tremor
27	SHILLONG	Z	iP	08	11	32		Slight, distant Rarefaction
	CHATRA	Z	i	08	12	01		Feeble, near
27	SHILLONG	Z	iP	08	53	46		Feeble, local
			i		54	00		
27	SHILLONG	Z	i	13	02	55		Tremor
27	SHILLONG	Z	i	14	43	11		Tremor
27	SHILLONG	Z, N, E	iP	16	45	33	330	Feeble Compression
		N, E	iSg					
	CHATRA	Z	iP	16	47	34		Feeble
			i		48	54		
	DEHRA DUN	N, E	e	16	51	45		Tremor
27	SHILLONG	Z	ePg	23	27	26		Feeble, local
	DEHRA DUN	N, E	e	23	34	12		Feeble
28	DEHRA DUN	N, E	e	08	40	42		Tremor
28	CHATRA	Z	iP	13	36	40		Slight
			i		37	05		
	CHATRA	Z	iPg	00	10	20	100	Feeble
			iSg		10	34		
29	CHATRA	Z	iPg	05	07	47	100	Slight
			iSg		08	01		
29	CHATRA	Z	iPg	05	14	36	100	Slight
			iSg		14	50		
29	SHILLONG	Z	iP	08	00	11		Slight, distant Rarefaction
	CHATRA	Z	i	08	00	21		Feeble, near
	DEHRA DUN	N, E	e	08	00	31		Tremor
29	SHILLONG	Z	iP	11	00	53		Slight, distant Compression
	CHATRA	Z	i	11	01	10		Feeble, near
29	SHILLONG	Z	i	14	40	41		Tremor
29	SHILLONG	Z	eP	16	28	20		Slight, near
29	CHATRA	Z	iP	21	55	03		Feeble
			i		55	24		
29	SHILLONG	Z	e	22	40	54		Tremor
29	SHILLONG	Z, N, E	iPg	23	31	41	150	Slight, felt
		N, E	iSg		32	00		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m s.	Δ km	REMARKS
29 Contd.	CHATRA	Z	iP	23 32 25		Slight
			i	33 37		
	DEHRA DUN	N F	e	23 36 30		Tremor
29	SHILLONG	Z	iPg	23 42 13	150	Feeble local
			iSg	42 32		felt
30	SHILLONG	Z	ePg	10 17 37	90	Slight
			Sg	17 47		
30	SHILLONG	Z	eP	12 40 18		Slight
30	SHILLONG	Z	eP	21 25 03		Slight

No Voluntary Earthquake reports during the month of June 1957.

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S. Basu, M.Sc., F.N.I.,
Director General of Observatories

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List of Seismograph stations with their Instruments and Constants

Station	Latitude	Longitude	Height a.s.l. (Metres)	Lithographic foundation	Instrument	Comp.	Period in secs	Static Magnification	Damping ratio	Paper speed mm/min
Bombay	18°54'N	72°49'E	6	Deccan Trap	Milne-Shaw	N	12	350	13:1	16
					Milne-Shaw	E	12	350	23:1	8
					Sprengnether	E	To = Tg = 7 secs			30
Bokaro	23°50'N	85°48'E	-	Rock	Milne-Shaw	N	12	250	20:1	16
					Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	E	0.8	960	h=0.8	60
					Wood-Anderson	N	0.8	1000	h=0.8	60
Calcutta	22°32'N	88°22'E	(1) 7(Milne-Shaw) (2) 6(Omori-Ewing)		Milne-Shaw	E	12	250	20:1	8
					Wood-Anderson	N	2	870	Critical	30
				Alluvium	Omori-Ewing	N	16	32	-	25.4
					Omori-Ewing	E	21	30	-	25.4
Chatra	26°50'N	87°10'E	161	Sand Stone	Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	N	1	1000	30:1	60
					Benioff	Z	To=0.72 Tg=0.45 secs.		Critical	60
					Wenner-Accelerograph	ZNE	-	-	-	-
Colombo	06°54'N	79°52'E	7	Beach Sand	Milne-Shaw	E	12	250	20:1	-
Dehra Dun	30°19'N	78°02'E	682	Gravel	Wood-Anderson	N	0.8	950	Critical	60
					Wood-Anderson	E	0.8	850	Critical	60
					Milne-Shaw	N	12	250	20:1	8
					Milne-Shaw	E	12	250	20:1	8
Hyderabad	17°26'N	78°27'E	536	Granite	Milne-Shaw	E	12	250	20:1	8
					Milne-Shaw	N	12	250	20:1	8
Kodaikanal	10°14'N	77°28'E	2346	Rock	Milne-Shaw	E	10	250	20:1	8
Madras	13°00'N	80°11'E	15	-	Sprengnether	E	To=Tg=72 secs		Critical	30
New Delhi	28°35'N	77°12'E	207	Massive Quartzite						
Poona	18°32'N	73°51'E	560	Deccan Trap	Sprengnether	Z	To=Tg=1.6		Critical	30
					Wood-Anderson	E	4	1000	20:1	16
					Milne-Shaw	N	12	280	20:1	8
Port Blair	11°40'N	92°43'E	-	-	Wood-Anderson	N	2	1000	20:1	30
					Wood-Anderson	E	0.8	1000	66:1	30
					Milne-Shaw	N	12	350	20:1	8
Shillong	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)	Wood-Anderson	N	0.8	1000	h=0.h=0.8	30
					Wood-Anderson	E	0.8	1000	h=0.8	30
					Milne-Shaw	N	12	250	20:1	8
					Benioff	Z	To=1.0 Tg=0.18		-	60
					Sprengnether	E	To=Tg=6.5		Critical	30
					Wenner Accelerograph	ZNE	-	-	-	-
Tocklai	28°45'N	94°46'E	-	Alluvium	Wood-Anderson	E	0.8	970	h=0.8	60
Vizianagram	18°07'N	83°27'E	-	-	Wood-Anderson	E	0.8	1000	h=0.8	30
					Wood-Anderson	N	2	1000	20:1	30

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May 1957

DATE	STATION	COMPT	PHASE	G. M. T. h m s.	Δ km	REMARKS
01	Epc. 41½°N 78½°E. Kirghiz-China Border - H = 00h 45m 00s (U.S.C.G.S)					
	DEHRA DUN	N,E	eP	00 47 40	1150	Slight Phases
			eS	49 38		not clear
			i	51 12		
	CHATRA	Z	eP	00 48 40		Feeble
	SHILLONG	Z	eP	00 49 20		Slight
	POONA	Z	eP	00 50 12		Feeble
01	CHATRA	Z	iP	00 58 48		Slight
			i	59 13		
01	PORT BLAIR	N	iPg	03 55 44	40	Slight
			iSg	55 49		
01	SHILLONG	Z	iP	04 21 45		Slight, near compression
	CHATRA	Z	iP	04 22 47		
			i	24 43		
01	PORT BLAIR	N	iPg	08 15 45	40	Slight
			iSg	15 50		
01	SHILLONG	Z,E	iP	13 53 16	450	Slight
		E	Pg	53 27		Rarefaction
			PPP	53 30		
			P*	53 35		
			Lq	53 55		
			S	54 04		
			Lr	54 06		
			Sg	54 28		
	CHATRA	Z	iPδ	13 54 16		Slight
		E	ePδ			
			i	56 52		
01	SHILLONG	Z	iP	14 03 32		Slight compression
01	SHILLONG	Z	iP	18 19 52	80	Slight
			Sg	20 01		
01	DEHRA DUN	N,E	eP	20 03 35	830	Slight Other
		N	iS	05 01		phases not
			SS	05 15		clear
			SSS	05 25		
	CHATRA	Z	iPδ	20 05 18		Slight
		E	ePδ			
			i	08 31		
	POONA	Z	eP	20 05 44		Feeble
	SHILLONG	Z	iP	20 06 04		Slight Rarefaction
	PORT BLAIR	N	e	20 32 29		Slight
01	SHILLONG	Z	iP	20 35 34		Slight Rarefaction
01	PORT BLAIR	N	e	20 43 03		Slight
01	SHILLONG	Z	e	20 46 20		Tremor
01	PORT BLAIR	N	e	21 08 44		Slight
01	CHATRA	Z	iPg	23 20 13	40	Feeble
			iSg	20 18		
01	SHILLONG	Z	iP	23 39 48		Slight compression
	CHATRA	Z	i	23 39 58		Feeble
	POONA	Z	iP	23 41 10		Feeble
01	SHILLONG	Z	iP	23 49 23		Slight
02	SHILLONG	Z	eP	02 00 57		Slight compression
	POONA	Z	iP	02 02 22		Feeble
	BOMBAY	E	e	02 02 31		Feeble
			e	12 41		
02	SHILLONG	Z	iP	02 34 09		Slight compression
02	SHILLONG	Z	iP	04 07 54		Slight compression

DATE	STATION	COMPT	PHASE	G. M. T. h m s.	Δ km	REMARKS
02 contd.	BOMBAY	N	e	04 08 15		Very slight
		E	e	14 26		
		N,E	e	18 50		
	POONA	Z	iP	04 08 16		Feeble
02	SHILLONG	Z	eP	04 34 31		Slight, near
02	SHILLONG	Z	iP	09 27 42		Slight, local Other phases not clear.
02	SHILLONG	Z	iP	10 00 55		Slight, near
	CHATRA	Z	iP	10 01 53		Feeble
			i	03 11		
02	DEHRA DUN	N,E	e	10 29 58		Tremor
	SHILLONG	Z	eP	10 33 55		Slight compression
02	SHILLONG	Z	e	10 53 42		Tremor
	DEHRA DUN	N,E	e	10 54 18		Tremor
	POONA	N	eP	10 57 05		Feeble
	BOMBAY	N	e	10 57 28		Distant
		E	e	57 46		
			e	11 15 16		
			M	56 34		Per ≈ 20 secs μ ≈ 9
02	Epc. 52½°N, 169°W. Fox Islands in Aleutians					
	SHILLONG	Z	iP	11 41 00		Slight. Initial ground motion towards West Compression
	CHATRA	Z	iPδ	11 41 09	8420	Slight
		E	ePδ			
			iS	50 51		
	POONA	Z	eP	11 42 20		Slight Phases not clear
	KODAIKANAL	E	e	11 45 39		Tremor
	HYDERABAD	N	M	11 48 04		Per ≈ 18 secs μ ≈ 11
		E	M	48 22		Per ≈ 19 secs μ ≈ 5
	DEHRA DUN	N,E	eP	11 50 57	9420	Slight
		N	iS	12 01 25		
			SS	06 33		
			SSS	09 58		
			Lr	17 57		
			M	24 45		
	BOKARO	N,E	e	11 51 15		Slight, distant
			i	12 01 12		Phases not clear
			i	01 25		
	HYDERABAD	N,E	eP	11 51 53	9350	Moderate
			iS	12 02 18		
		N	M	25 34		Per ≈ 18 secs μ ≈ 10
		E	M	25 49		Per ≈ 18 secs μ ≈ 5
	POONA	Z	eP	11 52 01	10140	Slight
		E	SKKS	12 02 35		
			eS_1	02 58		
	BOMBAY	N,E	e	11 52 01		Slight
		E	e	12 02 25		
			M	30 01		Per ≈ 19 secs μ ≈ 7
		N	M	30 30		Per ≈ 22 secs μ ≈ 8
	COLOMBO	E	L	11 53 44		
			M	56 34		Amp. ≈ 0.4 mm
02	COLOMBO	E	e	12 44 59		
			e	50 29		
02	POONA	Z	e	14 06 15		Tremor
02	SHILLONG	Z	e	20 11 31		Tremor

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DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
				May 1957		
02 Contd.	KODAIKANAL	E	e	20 12 2		Tremor
	COLOMBO	E	L	20 13 07		
			M	15 24		Amp 0 3 mm
	HYDERABAD	E	M	20 17 44		Per 12 secs
						μ 2
		N	M	18 09		Per 9 secs
						μ 2
02	SHILLONG	Z	iP	21 26 59		Slight compression
02	Epc 7½°S 120°E Flores Sea. h 600 KmCa H 21h 36m 25s (U S C G S)					
	PORT BLAIR	N	eP	21 42 31		Slight
			i	47 01		
			i	52 09		
	COLOMBO	E	P	21 43 34	3900	
			S	49 07		
			L	59 32		
			M	22 03 15		Amp 0.3 mm
	SHILLONG	Z,E	iP	21 43 37	4050	Slight
		E	iS	49 19		Rarefaction
	POONA	Z	iP	21 43 49		Feeble
			i	45 51		
	MADRAS	E	iP	21 43 51	4190	Slight Initial
			PP	45 24		ground movement
			PcP	45 35		towards East.
			ScP	49 14		
			iS	49 42		
			SS	52 31		
			Lq	52 41		
			SSS	52 56		
			ScS?	53 26		
			Lr	54 33		
	CHATRA	Z	i	21 44 04		Slight distant
	KODAIKANAL	E	iP	21 44 06	4330	Slight Initial
			PP	45 36		ground movement
			PPP	46 06		towards East
			S	50 06		
			SSS	53 36		
	BOMBAY	N,E	eP	21 44 57	5110	Slight deep
			e	46 47		
			iS	51 42		
	DEHRA DUN	N,E	eP	21 45 06	7370	Slight Phases
			iS	53 55		not clear
	BOKARO	N,E	e	21 45 45		Slight
			i	49 57		
	HYDERABAD	N	iP	21 46 04		Slight Initial
			i	50 23		ground movement
			e	53 05		towards North
			M	54 23		Per 9 secs μ 3
02	POONA	Z	iP	21 46 39		Feeble
02	POONA	Z	iP	21 51 27		Slight
03	SHILLONG	Z	iP	02 31 31	400	Slight
03	SHILLONG	Z	e	03 25 56		Tremor
03	SHILLONG	Z	iP	07 21 34		Slight Rarefaction
	CHATRA	Z	i	07 21 46		Feeble near
	POONA	Z	i	07 23 04		Tremor
03	BOMBAY	N,E	e	07 33 38		
		E	M	08 05		
03	Epc 12½°N 125½°E. In the Philippines H 14h 43m 03s (U S C G S)					
	SHILLONG	Z	iP	14 49 49	3760	Slight
		E	eS	55 13		Compression
	MADRAS	E	eP	14 51 20	4920	Feeble
			PcP	52 38		
			PP	53 04		
			eS	57 55		
			PS	58 01		
			SS?	15 01 12		
	DEHRA DUN	N,E	e	14 51 32		Feeble
			e	53 41		Phases not
			e	58 32		clear

DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
03 Contd	POONA	Z	iP	14 51 59	5590	Slight
		E	S	59 12		
	BOMBAY	E	eP	14 52 08	5700	Slight
			eS	59 27		
	COLOMBO	E	L	15 13 --		
			M	18 31		Amp 0 2 mm
03	SHILLONG	Z	e	15 42 31		Tremor
03	SHILLONG	Z	iP	16 26 11		Slight Rarefaction
03	CHATRA	Z	eP	18 43 20		Feeble
			i	43 40		
03	CHATRA	Z	iP	18 49 55		Slight
			i	51 15		
04	SHILLONG	Z	i	08 47 28		Local
04	Epc 3½°S 137°E Western New Guinea H 10h 05m 45s (U S C G S)					
	COLOMBO	E	i	10 14 55		
			e	23 32		
			e	38 38		
			e	43 05		
	SHILLONG	Z	eP	10 14 56	5870	Slight
		E	iP	15 00		Compression
			PP	15 53		
			PPP	17 41		
			S	22 24		
			PS	22 27		
			PPS	22 44		
			SS	24 30		
			SSS	26 01		
	CHATRA	Z,E	iP	10 15 31	6300	
		E	iS	23 23		
	MADRAS	E	eP	10 15 42	6470	Slight
			PcP	16 18		
			PP	17 49		
			PPP	19 16		
			PcS	20 14		
			eS	23 43		
			PS	24 00		
			PPS	24 06		
			ScS	25 14		
	DEHRA DUN	N,E	eP	10 16 30	7220	Slight
		N	iS	25 12		
			PPS	25 55		
			SS	29 51		
			Lq	33 35		
			Lr	36 03		
			M	41 50		
	POONA	Z	eP	10 16 32		Slight
		E	e	16 48		
			e	25 08		
			e	25 33		
			e	25 45		
	BOMBAY	E	eP	10 16 38	7370	Slight
			PP	19 08		
			PPP	20 44		
			eS	25 27		
			PS	26 20		
			SKS1	26 37		
			SS	29 48		
			M	44 26		Per 19 secs
						μ 2
	KODAIKANAL	E	e	10 23 53		Tremor
	HYDERABAD	E	M	10 24 16		Per 12 secs
						μ 3
		N	M	24 26		Per 6 secs
						μ 2
04	BOKARO	N,E	e	11 23 17		Tremor
04	CHATRA	Z	iP	14 38 36		Slight
			i	39 00		
	SHILLONG	Z	eP	14 38 52	220	Slight
			e	38 55		
			S	39 18		
			e	39 34		
04	Epc 37°N 96½°E. Chinghai Province H 14h 52m 20s (U S C G S)					

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May 1957

DATE	STATION	COMPT	PHASE	G. h	M. m	T s	Δ km	REMARKS
04 Contd	SHILLONG	Z	iP	14	55	09	2430	Slight
		E	iS		59	06		Rarefaction
			Lq		59	26		
			SS		59	42		
			Lr	15	00	20		
			M		01	44		
	CHATRA	Z	eP	14	55	21		Slight
			i		59	38		
	POONA	Z	eP	14	58	04	3220	Slight
		E	eS	15	02	55		
			M		08	31		
	BOMBAY	Z	eP	14	58	04	3230	Slight
		E	eS	15	02	55		
			M		08	31		
04	BOMBAY	E	eP	14	58	05	3450	Slight
			eS	15	03	10		
			M		10	17		
	DEHRA DUN	N,E	e	14	59	28		Feeble
			e	15	01	47		
	BOKARO	N,E	e	15	00	48		Slight
			i		02	18		
	HYDERABAD	N	M	15	02	20		Per.~9 secs. μ 4
		E	M		02	23		Per.~12 secs. μ 3
	KODAIKANAL	E	e	15	08	50		Tremor
04	DEHRA DUN	N,E	e	15	45	26		Tremor
04	SHILLONG	Z	e	16	20	29		Slight local
			i		20	32		
04	PORT BLAIR	N	ePg	17	18	03	20	Slight
			eSg		18	06		
04	SHILLONG	Z	iP	23	42	56		Slight Compression
06	CHATRA	Z	iP	00	52	56		Feeble
			i		54	14		
06	NEW DELHI	N	e	01	00	51		Slight
			i		02	17		
	DEHRA DUN	N,E	e	01	00	57		Feeble
			i		02	38		
	BOKARO	N,E	e	01	02	26		Slight Phases
			i		03	26		not clear
	POONA	Z	e	01	03	11		Feeble
	BOMBAY	E	e	01	06	22		Slight near
		N,E	e		07	34		
		E	e		07	57		
		N	e		08	04		
		N,E	e		08	14		
	HYDERABAD	E	M	01	06	30		Per.~6 secs μ 2
		N	M		07	00		Per.~9 secs μ 2
	KODAIKANAL	E	e	01	10	48		Tremor
06	CHATRA	Z	iP	01	36	22		Slight
			i		37	40		
	DEHRA DUN	N,E	e	01	36	45		Feeble
			i		38	25		
	NEW DELHI	N	e	01	36	58		Slight
			i		38	16		
	BOKARO	N,E	e	01	38	22		Slight Phases
			i		39	13		not clear
	POONA	Z	e	01	41	35		Feeble
	BOMBAY	N,E	e	01	41	43		Slight near
		E	e		42	36		
			e		43	03		
		N,E	e		43	33		
		E	e		44	05		
	MADRAS	E	eP	01	42	37	1240	Slight
			PP		42	44		
			PPP		42	52		
			Lq		44	30		
			eS		44	44		
			SS		45	00		
			SSS		45	09		
			M		46	06		
06 Contd	HYDERABAD	E	M	01	42	42		Per.~9 secs μ 3
		N	M		42	45		Per.~9 secs. μ 2
	KODAIKANAL	E	e	01	46	33		Tremor
06	CHATRA	Z	iP	07	00	32		Slight
			i		01	49		
06	SHILLONG	Z	iP	11	29	47		Slight Compression
	CHATRA	Z	iP	11	29	52		Feeble
			i		31	26		
	POONA	Z	i	11	31	12		Tremor
	SHILLONG	Z	iP	11	31	20		Slight Compression
06	POONA	Z	i	11	33	45		Tremor
06	SHILLONG	Z	e	14	44	28		Tremor
06	DEHRA DUN	N,E	e	15	12	19		Feeble. Phases
			i		16	14		not clear
			e		21	49		
	POONA	Z	i	15	12	42		Tremor
	CHATRA	Z	i	15	13	13		Slight distant
	SHILLONG	Z	iP	15	13	54		Slight Rarefaction
	BOMBAY	E	e	15	17	11		Very slight
	HYDERABAD	N	M	15	20	34		Per.~21 secs μ ~ 8
		E	M		20	43		Per.~18 secs μ 5
06	SHILLONG	Z	e	16	48	15		Tremor
06	SHILLONG	Z	iP	18	09	38		Slight Rarefaction
06	SHILLONG	Z	iP	19	26	17		Slight Rarefaction
06	SHILLONG	Z	eP	19	41	36		Slight Compression
06	SHILLONG	Z	eP	20	40	57		Slight
06	SHILLONG	Z	iP	21	13	21		Slight Compression
06	SHILLONG	Z	iP	21	48	37		Slight Rarefaction
06	SHILLONG	Z	iP	22	02	57		Slight Compression
06	SHILLONG	Z	iP	22	49	30		Slight Compression
06	SHILLONG	Z	e	23	28	33		Tremor
06	SHILLONG	Z	iP	23	50	05		Slight Compression
06	SHILLONG	Z	e	23	53	18		Tremor
07	SHILLONG	Z	Pg	03	40	58	20	Slight local
			Sg		41	01		
07	SHILLONG	Z	Pg	04	33	04	110	Slight, near
			Sg		33	17		
07	SHILLONG	Z	e	04	38	15		Tremor
07	SHILLONG	Z	i	05	45	11		Slight
			i		45	13		
07	SHILLONG	Z	iP	05	45	48		Slight Compression
	CHATRA	Z	i	05	47	52		Slight, distant
	POONA	Z	iP	05	49	13		Feeble
	BOMBAY	E	e	05	59	43		Very slight
08	SHILLONG	Z	iP	12	14	39	290	Slight
			P		14	42		
			Pg		14	47		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
				May 1957		
08 Contd.	SHILLONG Contd.	Z	S Sg	12 15 11 15 18		
08	CHATRA	Z	i	13 38 44		Slight, distant
08	DEHRA DUN	N, E	e e	14 27 20 29 25		Feeble
	SHILLONG	Z	iP	14 29 24		Slight Compression
	POONA	Z	eP	14 29 39		Feeble
08	BOMBAY	E	e	14 37 39		Feeble
08	CHATRA	Z	iPg iSg	16 37 31 37 43	90	Feeble
08	BOMBAY	E	e	20 35 40		Feeble
08	SHILLONG	Z	iP	21 43 52		Slight rarefaction
09	SHILLONG	Z	iPg iSg	07 32 41 32 49	70	Slight, local
09	DEHRA DUN	N, E	e e	08 46 47 48 50		Feeble
	CHATRA	Z, E E	eP e	08 48 27 55 22		Slight
	POONA	Z	iP	08 48 57		Slight
	SHILLONG	Z	eP i	08 49 15 49 17		Slight
	BOMBAY	E	e e	08 52 42 55 04		Surface waves
09	SHILLONG	Z	iP	10 44 48		Slight, near rarefaction
09	SHILLONG	Z	i i i	19 56 05 56 12 56 22		Slight
10	SHILLONG	Z	e	01 07 56		Slight, near
10	SHILLONG	Z	e e	13 07 31 08 15		Slight, near
10	CHATRA	Z	iP i	18 42 34 43 53		Slight
	SHILLONG	Z	iP	18 43 23		Slight rarefaction
	DEHRA DUN	N, E	e	18 44 27		Tremor
10	SHILLONG	Z	iP	19 17 23		Slight rarefaction
10	CHATRA	Z	eP i	23 10 33 10 57		Feeble
11	CHATRA	Z	eP i	03 34 45 37 17		Feeble
11	SHILLONG	Z	iP P Pg iS S Sg	09 04 00 04 15 04 23 04 55 05 10 05 30	520	Slight compression
11	SHILLONG	Z	e i i	05 45 24 45 27 46 01		Slight beginning doubtful
11	SHILLONG	Z	eP	07 41 37		Slight compression
11	SHILLONG	Z	eP	17 55 16		Slight, beginning uncertain
11	SHILLONG	Z	iP	18 09 09		Slight, near
11	SHILLONG	Z	e	19 49 38		Tremor
12	SHILLONG	Z	iP	02 37 10		Slight compression
12	SHILLONG	Z	iP	05 06 47		Slight rarefaction

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
12	BOMBAY	N, E E	eP PP PPP eS SS	05 16 19 19 24 22 32 26 38 31 14	9220	Slight
	COLOMBO	E	L M	05 36 39 41 31		Amp. 0.6 mm
12	SHILLONG	Z	e	05 37 25		Tremor
12	SHILLONG	Z	eP	06 56 57		Slight, beginning uncertain
12	DEHRA DUN	N, E	e	07 16 22		Tremor
12	SHILLONG	Z	eP	09 19 19		Slight rarefaction
12	SHILLONG	Z	iP	11 08 17		Slight compression
12	Epc 8°S 110°E. Near South Coast of Java. H - 11h 29m 00s (Shillong) 8½°S 107½°E. H = 11h 29m 07s (U.S.C.G.S)					
	COLOMBO	E	P S L M	11 35 31 40 49 46 09 48 01	3670	 Amp. 3.2 mm
	KODAIKANAL	E	iP PP PPP S SS SSS Lq Lr M	11 36 04 37 28 37 52 41 49 44 19 44 58 44 34 46 22 49 22	4100	Initial ground movement towards West Moderate Per. = 12 secs μ = 13
	SHILLONG	Z E	iP PP PPP iS PcS SS Lq Lr M	11 36 19 37 36 38 00 42 07 42 34 44 29 44 48 45 34 49 41	4140	Slight rarefaction Per. = 15 secs μ = 30
	BOKARO	N E N	iP iS Lq Lr M	11 36 34 42 38 45 13 47 23 57 02	4410	Moderate Initial ground movement towards North and West Per. = 23 secs μ = 30
	HYDERABAD	E	eP iS PS PPS SS Lq SSS Lr M	11 36 36 42 40 42 52 43 04 45 55 46 17 46 52 48 22 52 58	4410	Moderate
	CHATRA	Z E	iP? eP? iS	11 36 48 43 06	4630	Slight
	POONA	Z E	eP PP PPP iS PPS ScS SS Lq SSS Lr M	11 37 08 38 47 39 32 43 39 43 51 46 34 46 43 47 44 47 55 49 47 53 43	4870	Moderate
	BOMBAY	N, E E N E N. E E	eP PP PPP PPP eS PPS SS	11 37 16 39 24 39 53 40 02 44 01 44 25 47 00	5110	Moderate

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DATE	STATION	COMPT	PHASE	G h.	M m.	T s.	Δ km	REMARKS
								May 1957
12	BOMBAY	N	SS	11	47	13		
contd	Contd	N E	Lq		48	22		
			Lr		50	31		
		E	M		55	26		Per. 14 secs
								Ա 15
		N	M		58	06		Per. 18 secs
								Ա 16
	DEHRA DUN	N E	eP	11	37	47	5390	Moderate
		E	PPP		40	27		
			iS		44	48		
			PS		45	13		
			SS		48	13		
			SSS		49	35		
			Lr		52	00		
			M		56	43		
12	SHILLONG	Z	e	12	15	07		Tremor
			e		16	33		
12	SHILLONG	Z	Pg	15	11	29	110	Slight. near
			Sg		11	41		
12	MADRAS	E	eP	17	05	58		
			PP		07	19		
			PPP		07	46		
			PcP		08	14		
			eS		11	33		
			ScP		11	54		
			Lq		14	03		
			SS		14	09		
			SSS		14	27		
			Lr		15	54		
			M		18	51		
13	SHILLONG	Z	iP	00	46	28		Slight rarefaction
13	SHILLONG	Z	iP	08	27	58		Slight, near compression
	CHATRA	Z	i		28	25		
			iP	08	28	57		Slight
			i		30	22		
13	SHILLONG	Z	iP	13	24	05		Slight compression
13	SHILLONG	Z	iP	15	26	36		Slight compression
13	SHILLONG	Z	eP	19	25	46		Slight rarefaction
14	SHILLONG	Z	eP	14	43	06	200	Slight
			Pg		43	09		
			iS		43	30		
			Sg		43	33		
14	SHILLONG	Z	e	18	34	32		Slight, distant
			i		34	34		
14	SHILLONG	Z	iP	18	55	03		Slight compression
14	CHATRA	Z	iP	23	08	32		Slight
			i		09	10		
15	Epc 35°N 70°E. Northern Afganistan.							
	H 01h 19m 59s (U S C G S)							
	DEHRA DUN	N E	e	01	22	11		Feeble Phases
			e		23	28		not clear
	NEW DELHI	N	iP	01	22	13	910	Slight. near
			eS		23	47		
			Sg		24	47		
	CHATRA	Z	eP	01	23	50		Slight
			i		29	16		
	POONA	Z	iP	01	24	04	2040	Slight
		E	eS		27	26		
			SS		27	47		
			SSS		28	01		
			Lr		28	15		
			PcP		29	43		
	SHILLONG	Z	iP	01	24	45		Slight rarefaction
	MADRAS	E	eP?	01	25	18	3050	Feeble
			PP		26	05		
			eS?		29	58		
			Lq		31	20		
			SS		31	31		
			ScP		31	41		
			Lr		32	45		
			M		35	02		
15	BOMBAY	E	e	01	27	23		Very slight
Contd.		N	e		28	28		near
		E	e		28	53		
	HYDERABAD	N	M	01	30	02		Per. 5 secs
								Ա 2
		E	M		30	05		Per 5 secs
								Ա 3
15	SHILLONG	Z	iP	01	54	31		Slight rarefaction
16	CHATRA	Z	iP	19	12	16		Slight
			i		12	46		
17	SHILLONG	Z	iP	06	07	18		Slight rarefaction
17	SHILLONG	Z	iP	10	11	14	180	Slight. near
			Sg		11	38		
17	SHILLONG	Z	iP	13	07	19		Slight. near
18	Epc 51°N 171°W. Fox Islands in the Aleutians.							
	H 05h 24m 01s (U.S C G S)							
	CHATRA	Z	iP?	05	35	55	8590	Slight
		E	eP?					
			iS		45	45		
	POONA	Z	iP	05	37	06	10080	Slight
		N	SKS1		47	41		
			ScS		47	50		
			eS		48	01		
			PS		49	01		
			PcS		57	58		
			Lq	06	01	37		
			Lr		05	46		
			M		13	24		
	BOMBAY	N E	eP	05	37	11	10070	Slight
			eS		48	06		
	HYDERABAD	E	M	06	11	15		Per. 15 secs
								Ա 4
18	DEHRA DUN	N E	e	13	36	02		Feeble
			i		37	36		
	SHILLONG	Z	eP	13	38	27		Slight
18	SHILLONG	Z	iP	13	53	42		Slight rarefaction
18	PORT BLAIR	N	ePg	14	30	53	60	Slight
			P		30	56		
			eSg		31	00		
18	CHATRA	Z	iP	15	16	09		Slight
			i		16	37		
19	SHILLONG	Z	i	04	59	05		Slight local
			i		59	22		
19	SHILLONG	Z	iP	11	32	10		Slight, local
			i		32	24		
20	BOMBAY	N	eP	02	03	07	9470	Slight
		N E	eS		14	07		
		N	M		41	15		Per 18 secs
								Ա 1
		E	M		41	37		Per 17 secs
								Ա 2
20	DEHRA DUN	N E	e	04	45	04		Tremor
20	SHILLONG	Z	iP	10	35	35		Slight compression
20	SHILLONG	Z	iP	18	21	07		Slight rarefaction
20	SHILLONG	Z	iP	20	08	17		Slight rarefaction
20	SHILLONG	Z	i	20	41	36		Slight. near
			i		41	51		
20	SHILLONG	Z	e	23	17	57		Tremor
21	Epc 193°N 141°E. Mariana Islands Region							
	H 01h 12m 10s (Shillong)							
	21½°N. 144°E h 100 KmCa							
	H 01h 11m 58s (U.S C G S)							
	SHILLONG	Z E	iP	01	20	31	5110	Slight First
		E	i		20	51		movement West
			i		21	00		Compression.

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
								May 1957
21 Contd	SHILLONG Contd	E	PP	01	22	20		
			PPP		23	14		
			S		27	15		
			SS		30	37		
			SSS		31	36		
			Lr		33	27		
			M		36	15		
	PORT BLAIR	N	eP	01	20	52	5210	Moderate
			ScP		25	51		
			iS		27	49		
			ScS		30	26		
	CHATRA	Z	iP	01	21	03		Slight
			i		30	39		
	BOKARO	N,E	iP	01	21	14	561	Moderate
		E	PP		23	08		Initial ground
			PPP		24	04		movement
			eS		28	28		towards South
			i		30	49		and West
			SS		32	02		
			Lq		33	08		
	DEHRA DUN	N E	eP	01	21	41	6340	Moderate
		N	PPP		25	09		
			iS		29	35		
			PPS		30	10		
			SS		33	46		
			SSS		35	19		
			Lq		36	07		
			Lr		38	23		
			M		42	32		
	NEW DELHI	N	eP	01	22	03	6470	Moderate distant
			eS		30	04		
			i		30	49		
			i		31	38		
			i		32	22		
	HYDERABAD	E	iP	01	22	13	6580	Moderate
			PcP		22	50		Initial ground
			PP		24	38		movement
			PcS		26	54		towards West
			iS		30	21		
			PPS		30	50		
			SS		34	31		
	MADRAS	E	iP	01	22	10	6590	Moderate
			PcP		22	45		ground movement
			PP		24	42		west
			PPP		25	48		
			PcS		26	37		
			iS		30	18		
			PS		30	32		
			ScS		31	39		
			SS		34	09		
			SSS		36	42		
			Lq		37	15		
	COLOMBO	E	P	01	22	22	6890	
			S		30	46		
	POONA	Z	iP	01	22	38	7040	Moderate
		E	PcP		23	11		
			PP		24	51		
			PPP		26	25		
			iS		31	10		
			PS		31	23		
			ScS		32	11		
			SS		35	27		
			SSS		38	25		
			Lq		39	13		
			Lr		42	24		
			M		47	52		
	BOMBAY	N E	iP	01	22	44	7170	Moderate
			e		23	28		
			e		24	07		
			iS		31	23		
		E	i		32	00		
		N E	i		32	22		
		N	i		32	27		
			i		33	03		
			Lq		39	39		
21	SHILLONG	Z	iP	03	39	34		Slight rarefaction
21	SHILLONG	Z	i	05	10	24		Slight local
21	SHILLONG	Z	iP	09	27	06		Slight compression
21	SHILLONG	Z	iP	11	44	08		Slight compression
							5	Slight distant

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
21 Contd	DEHRA DUN	N E	e	11	45	19		Feeble
			e		53	06		
			e	12	01	06		
	POONA	Z	iP	11	46	23		Feeble
21	SHILLONG	Z	iP	11	54	50		Slight compression
21	SHILLONG	Z	iP	12	31	10	520	Slight
			P		31	20		
			Pg		31	33		
			S		32	05		
			Sg		32	29		
	CHATRA	Z	eP	12	32	02	870	Slight
			iS		33	32		
21	SHILLONG	Z	e	13	31	52		Tremor
22	SHILLONG	Z	e	09	16	59		Tremor
22	SHILLONG	Z	Pg	09	21	19	110	Slight
			P		21	21		
			Sg		21	33		
22	SHILLONG	Z	iP	10	31	53		Slight compression
22	SHILLONG	Z	iPg	12	21	03		Slight, local felt
	BOKARO	N,E	e	12	41	42		Slight distant
			i		51	25		
22	Epc 50°N 177°W Andreanof Islands in the Aleutians H 13h 29m 44s (U S C G S)							
	SHILLONG	Z	iP	13	41	04	8130	Slight
		E	PcP		41	29		rarefaction
			PP		43	51		
			PPP		45	25		
			S		50	32		
			PS		50	58		
			SKS		57	17		
	CHATRA	Z	iP?	13	41	19		Slight
		E	eP?					
			i		51	33		
	DEHRA DUN	N E	eP	13	41	39	8420	Slight
		N	PP		44	12		
			PPP		46	17		
			iS		57	21		
			PS		52	13		
			PPS		52	35		
			SS		56	18		
			M	14	11	12		
	POONA	Z	iP	13	42	33		Feeble
	BOMBAY	N E	eP	13	42	37	10410	Slight
		E	SKKS1		53	26		
		N	eS		53	45		
	COLOMBO	E	P	13	53	53		
			L	14	25	11		
			M		29	12		Amp.=0.4 mm
	HYDERABAD	E	M	14	17	14		Per.=15 secs L.P.3
22	SHILLONG	Z	iP	17	27	14		Slight compression
22	SHILLONG	Z	e	18	43	12		Tremor
22	SHILLONG	Z	iP	20	06	45		Slight. Other phases not clear rarefaction
22	SHILLONG	Z	e	22	28	41		Tremor
23	CHATRA	Z	iP	04	37	19		Slight
			i		38	09		
23	MADRAS	E	eP?	09	21	23	2170	Slight
			PP		21	39		
			PPP		21	49		
			eS?		24	57		
			SS		25	23		
			SSS		25	39		
			M		27	28		
	POONA	Z	i	09	21	25		Tremor
			i		21	35		
	BOMBAY	N,E	e	09	22	04		Slight
			e		25	53		
	KOKAIKANAL	E	e	09	23	37		Tremor

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
					May 1957			
23 Contd	HYDERABAD	E	M	09	26	03		Per ~ 9 secs μ ~ 2
24	POONA	Z	iP	02	57	15	2000	Slight
		E	PP		57	27		
			PPP		57	33		
			iS	03	00	35		
			SS		00	59		
			SSS		01	11		
			Lr		01	29		
			M		03	03		
			PcS		04	59		
	CHATRA	Z	i	02	57	24		Slight, distant
	SHILLONG	Z	iP	02	57	29		Slight rarefaction
	COLOMBO	E	P	02	57	52		
	BOMBAY	N,E	e	03	00	20		Distant and
		E	e		00	26		deep
	DEHRA DUN	N,E	e	03	00	46		Feeble
24	CHATRA	Z	e	03	10	21		Feeble near
24	SHILLONG	Z	iP	03	48	20		Slight compression
	POONA	Z	iP	03	49	42		Tremor
24	SHILLONG	Z	e	04	23	10		Tremor
	HYDERABAD	E	M	04	24	07		Per. 18 secs μ ~ 5
	COLOMBO	E	L	04	32			
			M		34	40		Amp. 0 1 mm
24	SHILLONG	Z	eP	07	03	03		Slight rarefaction
24	SHILLONG	Z	iP	10	23	58		Slight compression
24	SHILLONG	Z	iP	10	16	43		Slight compression
24	DEHRA DUN	N,E	e	15	51	54		Tremor
24	SHILLONG	Z	iP	17	19	36		Slight rarefaction
24	SHILLONG	Z	iP	18	46	22		Slight rarefaction
24	SHILLONG	Z	iP	22	13	00		Slight compression
25	DEHRA DUN	N,E	e	01	18	58		Tremor
25	SHILLONG	Z	iP	14	44	11		Slight rarefaction
25	SHILLONG	Z	iP	22	33	05		Slight compression
26	SHILLONG	Z	iP	00	05	27		Slight rarefaction
26	SHILLONG	Z	iP	00	45	32		Slight rarefaction
26	SHILLONG	Z	eP	04	28	36		Slight
26	Epc 41°N, 31°E Bolu Prainee Turkey H 06h 31m 33s (Shillong) H 06h 31m 31s (U.S.C.G.S) Mag 7.5 (Shillong) 7 (Pasadena) 53 persons killed, 70 injured and major property damage							
	DEHRA DUN	N,E	eP	06	41	03	4230	
			PP		42	37		
			PPP		42	57		
			iS		46	57		
			SS		49	49		
			SSS		50	30		
			Lr		51	58		
			M		54	58		Per. 17 secs μ ~27.6
	POONA	Z	iP	06	41	32	4720	
		E	PP		43	15		
			PPP		43	44		
			PcS		46	55		
			iS		47	55		
26 Contd	POONA Contd	E	PS	06	48	07		
			PPS		48	10		
			SS		50	58		
			ScS		51	09		
			Lq		51	33		
			SSS		51	47		
			Lr		53	23		
			Mn	07	03	--		
	HYDERABAD	E	iP	06	42	04	5170	Initial ground
			PcP		43	38		movement
			PP		43	50		towards West
			PPP		44	29		
			PcS		47	35		
			iS		48	53		
			PS		49	08		
			PPS		49	23		
			SS		51	47		
			Lq		52	41		
			Lr		55	17		
			M		59	38		Per. 21 secs μ 506
	CHATRA	Z	iP	06	42	11	5490	
		E	iP					
			iS		49	18		
	BOKARO	N E	iP	06	42	16	5310	Initial ground
		N	PP		44	02		movement
			PPP		44	55		towards South
			iS		49	13		
			SS		52	40		
			Lq		53	25		
			Lr		55	59		
			M		59	55		Per ~19 secs μ .474
	KODAIKANAL	E	iP	06	42	36	5630	Initial ground
			PP		44	30		movement
			PPP		45	33		towards West
			S		49	51		
			PPS		50	09		
			SS		53	18		
			SSS		54	51		
			Lr		57	15		
			M	07	01	21		Per ~15 secs μ ~48
	MADRAS	E	iP	06	42	36	5630	Initial ground
			PcP		43	44		movement
			PP		44	33		towards West
			PPP		45	38		
			ScP		47	29		
			iS		49	51		
			PS		49	57		
			PPS		50	07		
			ScS		52	04		
			SS		53	18		
			Lq		55	03		
			Lr		57	33		
	SHILLONG	Z,N,E	iP	06	42	44	5780	First movement
		N	PcP		43	47		East and South
			PP		44	51		
			PPP		45	49		
			PcS		47	47		
		E	iS		50	07		
			PS		50	17		
			SS		53	48		
			Lq/SSS		55	10		
			M		57	48		Per ~18 secs μ 425
	COLOMBO	E	P	06	43	06	5810	
			S		50	31		
			L	07	02	36		
			M		09	21		Amp. 17.0 mm
	PORT BLAIR	N	iP	06	43	48		
								Moderate.
	BOMBAY	N	M	07	06	03		Per. 17 secs μ ~70
		E	M		07	11		Per. 23 secs μ ~242
26	SHILLONG	Z	iP	09	04	00		Slight compression
26	SHILLONG	Z	iP	09	22	54		Slight rarefaction
26	SHILLONG	Z	iP	09	25	43		Slight rarefaction
26	Epc 41°N, 31°E Turkey aftershock H 09h 36m 33s (U.S.C.G.S)							

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DATE	STATION	COMPT	PHASE	G. M. T. h m s.	Δ km	REMARKS
				May 1957		
26 Contd	DEHRA DUN	N E	eP	09 44 18		Slight
		N	e	52 58		
			e	57 13		
			e	10 00 23		
			e	03 42		
			e	09 59		
	SHILLONG	Z	iP	09 45 49		Slight compression
26	SHILLONG	Z	Pg/P	13 40 21	90	Slight rarefaction
			P	40 23		
			Sg	40 31		
26	SHILLONG	Z	iP	16 02 09		Slight compression
	DEHRA DUN	N, E	e	16 03 50		Tremor
26	SHILLONG	Z	P/Pg	23 04 31	110	Slight
			P	04 33		
			PP	04 40		
			Sg	04 43		
27	DEHRA DUN	N, E	e	02 31 03		Tremor
27	DEHRADUN	N E	e	06 58 10		Slight Phases
			e	59 35		not clear
	CHATRA	Z	iP	06 59 56		Feeble
			i	07 03 12		
27	POONA	Z	e	07 04 01		Feeble
27	SHILLONG	Z	iP	09 00 46		Slight compression
27	POONA	Z	eP	11 09 29		Feeble
	BOMBAY	E	eP	11 09 34	4520	Slight
			e	15 38		
			eS	15 45		
	CHATRA	Z	iP◊	11 10 10	5510	Slight
		E	eP◊			
			iS	17 18		
	DEHRA DUN	N E	e	11 10 40		Feeble Phases
			e	18 24		not clear
	HYDERABAD	E	e	11 16 51		
			M	27 30		Per = 15 secs
						A = 4
	KODAIKANAL	E	e	11 17 56		Tremor
	COLOMBO	E	L	11 34		
			M	37 30		Amp = 0 6 mm
27	SHILLONG	Z	iP	13 10 40		Slight rarefaction
27	SHILLONG	Z	iP	15 28 56		Slight rarefaction
	PORT BLAIR	N	ePg	19 46 47	70	Slight
			iSg	46 55		
27	SHILLONG	Z	iP	22 45 14		Slight compression
28	SHILLONG	Z	P	00 16 54	220	Slight
			P*	16 56		compression
			Pg	16 58		
			PP	17 01		
			S	17 20		
			S*	17 22		
			Sg	17 24		
28	SHILLONG	Z	iP	02 31 15		Slight compression
28	Epc 25.5°N 94.2°E Pakistan Burma Border					
				H = 05h 15m 45s (Shillong)		
	25½°N, 95°E			H = 05h 15m 30s (U S C G S)		
	Felt at Shillong Dibrugarh Gauhati Tezpur					
	Kolunia Mazbat Lumding and Digboi					
	SHILLONG	Z, E	iP	05 52 22	250	Moderate
		E	P	52 26		rarefaction
			Pg	52 31		First movement
			i	52 42		East
			S	52 52		
			Sg	52 59		
28 Contd	CHATRA	Z	iP◊	05 53 24	770	Slight
		N E	iP◊			
			iS	54 44		
	BOKARO	N E	iP	05 53 39	840	Slight, local
		E	PP	53 46		Initial
			PPP	53 48		ground movement
			P*	53 58		towards North
			ePg	54 15		and East
			Lq	54 49		
			iS	55 07		
			SS/Lr	55 17		
			S*	55 32		
			iSg	55 50		
	PORT BLAIR	N	eP	05 54 53	1540	
			PP	55 04		
			iS	57 29		
	DEHRA DUN	N E	eP	05 55 17	1610	Slight
		N	PPP	55 38		
			iS	57 59		
			SS	58 17		
			SSS	58 30		
			Lr	58 35		
			Sg, M	59 40		
	HYDERABAD	E	iP	05 55 33	1950	Slight Initial
			PP	55 59		ground movement
			PPP	56 11		towards East
			iS	58 48		
			SS	59 14		
			Lr	59 50		
			M	06 01 41		Per = 12 secs
						A = 5
	MADRAS	E	iP	05 55 52	2270	Slight, Initial
			PP	56 13		ground movement
			PPP	56 24		East
			iS	59 36		
			Lq	59 48		
			SS	06 00 08		
			SSS	00 23		
			Lr	00 48		
			M	02 26		
			ScP	03 23		
	POONA	Z	iP	05 56 17	2300	Slight
		N E	eS	06 00 05		
	BOMBAY	N E	eP	05 56 27	2330	Slight
		E	PP	56 44		
		N E	PPP	56 59		
			eS	06 00 17		
			SS	00 51		
			SSS	01 05		
	COLOMBO	E	P	05 56 40	2670	
			S	06 00 55		
			L	04 20		
			M	06 20		Amp = 0 5 mm
	KODAIKANAL	E	e	05 56 42		Tremor
28	SHILLONG	Z	iP	06 39 39		Slight rarefaction
28	DEHRA DUN	N E	e	07 37 34		Feeble Phases not clear
28	SHILLONG	Z	iP	07 40 15		Slight rarefaction
28	SHILLONG	Z	iP	13 45 21		Slight compression
28	DEHRA DUN	N, E	e	15 43 26		Tremor
28	SHILLONG	Z	iP	23 31 46		Slight compression
28	SHILLONG	Z	iP	23 32 47		Slight rarefaction
28	SHILLONG	Z	eP	23 51 47		Slight rarefaction
29	PORT BLAIR	N	iP/Pg	02 22 57	110	Slight
			iSg	23 09		
29	SHILLONG	Z	P	06 09 08	240	Slight
			P*	09 11		
			Pg	09 16		
			Sg	09 46		

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May 1957

DATE	STATION	COMPT	PHASE	G h.	M m	T s	Δ km	REMARKS
29 Contd.	CHATRA	Z	iP	06	09	40	600	Slight
			iS		10	43		
29	CHATRA	Z	iP	06	53	01	230	Feeble
			iS		53	28		
29	SHILLONG	Z	e	07	59	21		Tremor
29	CHATRA	Z	i	18	48	40		Feeble
	SHILLONG	Z	iP	18	49	07		Slight compression
29	SHILLONG	Z	iP	21	39	07		Slight rarefaction
30	SHILLONG	Z	iP	03	26	37		Slight rarefaction
30	SHILLONG	Z	eP	09	13	26		Slight compression
30	SHILLONG	Z	e	10	46	49		Tremor
30	SHILLONG	Z	iP	11	55	04		Slight, near
			i		55	19		compression
30	SHILLONG	Z	iP	13	17	09		Slight rarefaction
30	SHILLONG	Z	iP	13	34	10		Slight rarefaction
30	SHILLONG	Z	iP	18	12	26		Slight compression
30	SHILLONG	Z	iP	19	57	40		Slight compression
30	SHILLONG	Z	e	21	11	02		Tremor
30	SHILLONG	Z	iP	21	39	40		Slight compression
30	SHILLONG	Z	iP	21	43	25		Slight rarefaction
31	DEHRA DUN	N, E	e	02	35	05		Feeble
	CHATRA	Z	iP	02	35	18		Slight
			i		37	39		
	SHILLONG	Z	iP	02	35	22		Slight, distant rarefaction
31	SHILLONG	Z	iP	03	22	20		Feeble, distant compression
31	SHILLONG	Z	iP	16	31	18		Feeble distant compression
31	CHATRA	Z	i	22	17	22		Feeble, distant
	SHILLONG	Z	iP	22	17	26		Slight, distant compression
31	Epc. 51°N 179½°W Andreanof Islands Region H = 22h 17m 10s (U.S.C.G.S)							
	SHILLONG	Z, N, E	iP	22	28	20	7780	Slight, other phases not clear
		N, E	iS		37	30		Rarefaction
	CHATRA	Z	i	22	28	35		Feeble
	DEHRA DUN	N, E	e	22	28	52		Slight. Phases not clear
	POONA	Z	eP	22	29	52	9490	Slight
		N	eS		40	23		
	HYDERABAD	N	e	22	40	03		
			M	23	09	33		Per. = 15 secs A = 4
		E	M		10	03		Per. = 11 secs A = 2
	BOMBAY	E	e	22	40	32		Very slight

Earthquake Reports

(Non-Instrumental reports)

The following is the list of Earthquakes that were reported by Voluntary Observers from different stations during the month of May 1957

PLACE	DATE IN G.M.T	TIME IN G.M.T h m.	NO. OF SHOCKS	DURATION OF SHOCKS in secs.	INTENSITY IN R.F. SCALE	REMARKS
Gulmarg	1	Between 1900 hrs and 1930 hrs	2			
Shillong	22	12 20	3	-	IV	
Pasighat	28	05 35	2	20	IV	
Rowriah (Jorhat)	28	05 48	-	40	V	
North Lakhimpur	28	05 50	3	7	V	
Bindukuri	28	05 57	3	20	-	
Dibrugarh	28	05 55	1	5	V	
Lumding	28	05 53	1	15	V	
Dhubri	28	05 54	1	20	IV	
Tezpur	28	05 53	1	3	III	
Gauhati	28	05 53	2	10	IV	
Kohima	28	06 00	-	1	III	
Mazbat	28	05 54	-	20	V	

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S. Basu, M.Sc., F.N.I.,
Director General of Observatories

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List of Seismograph stations with their instruments and constants

Station	Latitude	Longitude	Height a.s.l. (Metres)	Lithographic foundation	Instrument	Comp.	Period in secs	Static Magnification	Damping ratio	Paper speed mm/min
Bombay	18°54'N	72°49'E	6	Deccan Trap	Milne-Shaw	N	12	350	23:1	15
					Milne-Shaw	E	12	350	23:1	8
					Sprengnether	E	To = Tg = 7 secs			30
Lokaro	23°50'N	85°48'E	-	Rock	Milne-Shaw	N	12	250	20:1	16
					Milne-Shaw	E	12	250	[illegible]	[illegible]
					Wood-Anderson	E	0.8	960	h=0.8	-
					Wood-Anderson	N	0.8	1000	h=0.8	60
Calcutta	22°32'N	88°22'E	(1) 7(Milne-Shaw)		Milne-Shaw	E	12	250	20:1	8
			(2) 6(Omori-Ewing)		Wood-Anderson	N	2	870	Critical	30
				Alluvium	Omori-Ewing	N	16	32	-	25.4
					Omori-Ewing	E	21	30	-	25.4
Chatra	26°50'N	87°10'E	161	Sand Stone	Milne-Shaw	E	12	250	20:1	16
					Wood-Anderson	N	1	1000	30:1	60
					Benioff	Z	To=0.72	Tg=0.45 secs	Critical	60
					Wenner-Accelerograph	ZNE	-	-	-	-
Colombo	06°54'N	79°52'E	7	Beach Sand	Milne-Shaw	E	12	250	20:1	-
Dehra Dun	30°19'N	78°02'E	682	Gravel	Wood-Anderson	N	0.8	950	Critical	60
					Wood-Anderson	E	0.8	850	Critical	60
					Milne-Shaw	N	12	250	20:1	8
					Milne-Shaw	E	12	250	20:1	8
Hyderabad	17°26'N	78°27'E	536	Granite	Milne-Shaw	E	12	250	20:1	8
					Milne-Shaw	N	12	250	20:1	8
Kodaikanal	10°14'N	77°28'E	2346	Rock	Milne-Shaw	E	10	250	20:1	8
Madras	13°00'N	80°11'E	15	-	Sprengnether	E	To=Tg=72 secs		Critical	30
New Delhi	28°35'N	77°12'E	207	Massive Quartzite						
Poona	18°32'N	73°51'E	560	Deccan Trap	Sprengnether	Z	To=Tg=1.6		Critical	30
					Wood-Anderson	E	4	1000	20:1	16
					Milne-Shaw	N	12	280	20:1	8
Port Blair	11°40'N	92°43'E	-	-	Wood-Anderson	N	2	1000	20:1	30
					Wood-Anderson	E	0.8	1000	66:1	30
					Milne-Shaw	N	12	350	20:1	8
Shillong	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)	Wood-Anderson	N	0.8	1000	h=0.8	h=0.8 30
					Wood-Anderson	E	0.8	1000	h=0.8	30
					Milne-Shaw	N	12	250	20:1	8
					Benioff	Z	To=1.0	Tg=0.18	-	60
					Sprengnether	E	To=Tg=6.5		Critical	30
					Wenner Accelerograph	ZNE	-	-	-	-
Tocklai	28°45'N	94°46'E	-	Alluvium	Wood-Anderson	E	0.8	970	h=0.8	60
Vizianagram	18°07'N	83°27'E	-	-	Wood-Anderson	E	0.8	1000	h=0.8	30
					Wood-Anderson	N	2	1000	20:1	30

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
					April 1957			
01	SHILLONG	Z	iP	07	37	16		Slight compression
	CHATRA	Z	e	07	37	52		Feeble near
01	Epc 4½°N 129°E h 100 KmCa H 07h 54m 20s (U S C G S)							
	SHILLONG	Z E	iP	08	02	00		Slight
	CHATRA	Z	iP	08	02	33		Feeble
			i		04	13		
	POONA	Z	i	08	03	48		Feeble
01	Epc 51°N 173°W In the Aleutians H 11h 35m 30s (U S C G S) Mag 6 1 (Uppsala Kiruna)							
	SHILLONG	Z	eP	11	47	07		
	CHATRA	Z	eP	11	47	17		
			i		49	03		
	DEHRA DUN	N E	e(P)	11	47	32	8570	Other phases
	N		iS		57	21		not clear
			i		58	06		
	POONA	Z	iP	11	48	30		
	BOMBAY	N E	eP	11	48	33	9930	
			eS		59	22		
01	SHILLONG	Z	iP	11	54	25		Slight
	HYDERABAD	N	M	12	22	20		Per 18 secs A 6
	E		M		22	25		Per 18 secs A 4
01	SHILLONG	Z	eP	15	14	52		Feeble
01	DEHRA DUN	N E	e	17	03	27		Feeble
			i		03	54		
	CHATRA	Z	eP	17	04	45		Feeble
			i		06	43		
	SHILLONG	Z	eP	17	05	38		Slight
	POONA	Z	e	17	08	37		Feeble
	BOMBAY	N E	e	17	10	10		Very slight
01	CHATRA	Z	ePg	19	04	42	140	Feeble
			eSg		05	00		
01	SHILLONG	Z	iP	19	15	57		Slight rarefaction
01	SHILLONG	Z	iP	20	15	14		Slight
			i		15	57		
01	SHILLONG	Z	iP	20	57	23		Slight rarefaction
02	Epc 51°N 173°W In the Aleutians H 00h 39m 42s (U S C G S) Mag 6 3 (Uppsala Kiruna)							
	SHILLONG	Z N E	iP	00	51	16	8220	
	E		iS	01	00	48		
	CHATRA	Z	e	00	51	28		Distant
	E		e		51	30		
	DEHRA DUN	N E	e(P)	00	51	42	8630	Other phases
			i(S)	01	01	34		not clear
	POONA	Z	iP	00	52	42		
	E		e	01	03	38		
	BOMBAY	E	e	00	53	13		Very slight
			M	01	36			
02	CHATRA	E	e	01	01	11		Feeble distant
02	HYDERABAD	N	e	01	26	47		
	E		e		26	53		
02	SHILLONG	Z	iP	02	54	19		Slight
02	SHILLONG	Z	eP	04	42	31		Slight
02	BOMBAY	E	e	04	47	38		Very slight
			e		52	12		
			e		52	46		

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
02	SHILLONG	Z	eP	06	23	22		Slight
02	SHILLONG	Z	eP	08	40	03		Slight
	CHATRA	Z	iP	08	40	34		Slight
			i		42	10		
	POONA	Z	iP	08	42	20		Feeble
02	SHILLONG	Z	eP	17	36	08		Slight
02	Epc 51½°N 173°W In the Aleutians H 20h 16m 57s (U S C G S) Mag 6 3 (Uppsala Kiruna)							
	SHILLONG	Z E	iP	20	28	34	8130	
	E		iS		38	02		
	DEHRA DUN	N E	e	20	29	06		Phases not
			i		38	47		clear
	POONA	Z	iP	20	29	55		
	E		e		40	48		
	BOMBAY	N E	eP	20	40	01	9930	
			eS		40	47		
	BOKARO	N E	i	20	38	59		
02	SHILLONG	Z	iP	20	50	37		Slight
02	HYDERABAD	N	e	21	03	34		
	E		e		03	34		
02	SHILLONG	Z	iP	21	39	27		Slight
	DEHRA DUN	N E	e	21	39	53		Feeble
			i		40	43		
	POONA	Z	iP	21	40	57	9890	Slight
	E		eS		51	43		
	BOMBAY	N E	eP	21	40	59	9930	Slight
			eS		51	48		
	BOKARO	N E	i	21	49	58		Tremor
02	SHILLONG	Z	iP	21	57	41		Slight
	POONA	Z	iP	21	59	11		Tremor
02	HYDERABAD	E	e	22	12	55		
	N		e		13	46		
03	BOMBAY	E	e	01	33	34		Slight
			e		38	36		
03	POONA	Z	iP	01	38	49		Feeble Phases not clear
03	SHILLONG	Z	iP	02	43	16		Slight
	CHATRA	Z	eP	02	44	00		Slight
	N E		i		45	49		
03	CHATRA	Z	eP	10	31	17		Slight
			i		31	51		
03	SHILLONG	Z	iP	17	00	46		Slight
03	SHILLONG	Z	eP	18	30	07		Slight
03	SHILLONG	Z	eP	22	18	13		Slight
03	SHILLONG	Z	eP	22	34	23		Slight
03	SHILLONG	Z	iP	23	20	37		Slight
04	Epc 58°N 155½°W Near Coast of Alaska Peninsula H 00h 13m 08s (U S C G S) H 00h 12m 52s (B C I S) Mag 6 0 (Uppsala Kiruna)							
	CHATRA	Z	i	00	22	10		Feeble
	SHILLONG	Z	iP	00	25	03		Slight
	DEHRA DUN	N E	e	00	25	13		Feeble Phases
			i		35	19		not clear
	POONA	Z	iP	00	26	13		Slight
	E		e		37	10		
	BOMBAY	E	e	00	36	38		Very slight
			e		37	10		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
04	SHILLONG	Z	iP	01 02 34		Slight
04	SHILLONG	Z	iP	01 41 37		Slight
04	SHILLONG	Z	iP	05 17 46		Slight
04	SHILLONG	Z	iP	07 01 25		Slight
04	Epc: 48°N, 155°E. Northern Kurile Islands - H = 06h 52m 18s (U.S.C.G.S)					
	SHILLONG	Z	iP	07 01 43		Slight
	POONA	Z	iP	07 03 39		Feeble
	BOMBAY	N, E	e	07 03 41		Very slight
			M	32 --		
04	SHILLONG	Z	iP	07 16 10		Slight
04	POONA	Z	iP	11 20 10		Feeble
			i	20 36		
	SHILLONG	Z	eP	11 20 34		Slight
04	Epc: 36°N, 70°E. In the Hindukush - H = 11h 36m 17s (Shillong) Mag: 5¾(Kew), 4¾(Moscow)					
	DEHRA DUN	N, E	eP	11 38 23	1360	
		N	Lq	39 26		
			iS	40 41		
			SS	41 06		
			SSS/Lr	41 17		
			M	42 07		
	CHATRA	Z	eP	11 40 17	1990	
			iS	43 35		
	POONA	Z	eP	11 40 23	2040	
			eS	43 45		
			M	45 47		
	BOMBAY	N	eP	11 40 24		
		N, E	e	43 36		
			e	45 23		
		N	M	47 42		Per. = 13 secs μ = 3
	BOKARO	N, E	eP	11 40 42		Phases not clear
			e	44 14		
			i	44 46		
			i	46 07		
	HYDERABAD	N	iP	11 40 48	2230	Initial ground movement towards North
			iS	44 29		
			SS	45 06		
		N, E	Lr	46 05		
		N	M	48 12		Per. = 8 secs μ = 7
		E	M	48 13		
	SHILLONG	Z	eP	11 41 04	2500	
			iS	45 07		
	MADRAS	E	eS	11 46 05		
			e	49 04		
			e	49 28		
			e	49 54		
			e	51 19		
			e	53 58		
	KODAIKANAL	E	eS	11 46 33		
			i	50 11		
			e	50 19		
			e	50 45		
			e	51 04		
			e	53 08		
	COLOMBO	E	S	11 47 00		
			e	52 30		
			e	54 50		
			e	56 25		
04	SHILLONG	Z	iP	14 55 29		Slight
	POONA	Z	iP	14 56 44		Tremor
05	SHILLONG	Z	iP	00 07 01		Slight
05	MADRAS	E	e	01 06 00		Feeble
05	Epc: 52°N, 172½°W. In the Aleutians - H = 02h 49m 39s (U.S.C.G.S) Mag: 6½(Pasadena), 6.2(Uppsala, Kiruna), 6(Praha).					
	SHILLONG	Z, N, E	iP	03 01 25	≈8000	
		E	iS	10 46		
	CHATRA	Z	e	03 01 27		Distant
	DEHRA DUN	N, E	eP	03 01 40	8490	Other phases not clear
		N	iS	11 25		
			PS	12 16		
			M	31 58		
	BOKARO	N, E	iP	03 01 46	8620	
			iS	11 38		
	HYDERABAD	N, E	iP	03 02 32	9580	Initial ground movement towards North and East
		N	PP	06 04		
		N, E	SKS1	12 54		
			iS	13 07		
			ScS	13 19		
			PS	14 07		
			PPS	14 29		
			SS	18 46		
		E	Lr	29 31		
		N	Lr	29 34		
			M	36 41		Per. = 18 secs μ = 14
		E	M	36 43		Per. = 18 secs μ = 7
	POONA	Z	iP	03 02 40		
		E	e	13 23		
	BOMBAY	N, E	eP	03 02 44	9730	
			PP	06 16		
			eS	13 25		
		E	e	13 40		
		N	M	42 41		Per. = 17 secs μ = 4
		E	M	44 15		Per. = 19 secs μ = 7
	KODAIKANAL	E	e	03 03 06		
	MADRAS	E	e	03 13 16		Distant
			e	44 00		
05	SHILLONG	Z	eP	06 31 17		Slight
05	DEHRA DUN	N, E	e	06 41 27		Feeble
	SHILLONG	Z	eP	06 41 58		Slight
05	SHILLONG	Z	eP	06 58 04		Slight
05	CHATRA	Z	i	06 59 07		Feeble, near
05	POONA	Z	iP	07 48 58		Slight. Phases
		E	e	50 25		not clear
			e	52 14		
			e	55 39		
	BOMBAY	E	eP	07 49 58	9310	Slight to moderate.
			PP	52 58		
			PPP	55 43		
			SKS	59 58		
		N, E	eS	08 00 21		
			PPS	01 28		
		E	M	34 --		
	DEHRA DUN	N, E	e	07 50 12		Feeble
	HYDERABAD	N	M	08 24 43		Per. = 24 secs μ = 10
05	Epc: 45°N, 148°E, Kurile Islands Region - H = 15h 04m 09s (U.S.C.G.S)					
	SHILLONG	Z	iP	15 12 57		Slight
	CHATRA	Z	i	15 13 18		Feeble
			i	13 34		
	DEHRA DUN	N, E	e	15 13 50		Tremor
	POONA	Z	iP	15 15 01		Tremor
05	SHILLONG	Z	iP	16 31 40		Slight
05	SHILLONG	Z	iP	16 47 36		Slight
	CHATRA	Z	i	16 47 48		Feeble, near
05	SHILLONG	Z	iP	21 02 40		Slight
05	CHATRA	Z	iP	22 02 10	160	Slight
		N, E	iS	02 30		
05	SHILLONG	Z	iP	22 13 52		Slight
05	SHILLONG	Z	eP	23 08 15		Slight
05	SHILLONG	Z	eP	23 21 34		
05	CHATRA	Z	eP	23 45 39		Slight
		Z, N	i	45 59		
06	SHILLONG	Z	eP	08 08 09		Slight

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
05	CHATRA	Z	ePg	13	41	56	20	Feeble
			iSg		41	59		
06	DEHRA DUN	N,E	e	14	09	25		Tremo
06	DEHRA DUN	N,E	e	14	40	53		Feeble
06	SHILLONG	Z	iP	14	41	04		Slight
06	SHILLONG	Z	iP	15	25	51		Slight
06	SHILLONG	Z	eP	16	15	13		Slight
06	SHILLONG	Z	iP	16	56	17		Slight
06	SHILLONG	Z	iP	18	15	53		Slight
06	SHILLONG	Z	iP	18	16	56		Slight
07	SHILLONG	Z	iP	00	20	14		Slight
07	SHILLONG	Z	iP	00	42	43		Slight
07	SHILLONG	Z	eP	07	45	13		Slight
07	SHILLONG	Z	eP	08	15	35		Slight
07	CHATRA	Z	ePg	09	43	10	100	Feeble
			iSg		43	24		
07	SHILLONG	Z	iP	09	52	17		Slight
07	CHATRA	Z	i	08	52	48		Feeble near
07	SHILLONG	Z	eP	09	57	18		Slight
07	Eps 2°S 133½°E Near North Coast of New Guinea - H - 10h 14m 08s (U S C G S) Mag 6 4 (Uppsala; Kiruna), 6-6¼ (Pasadena) 6 1 (Praha)							
	SHILLONG	Z,N,E N E	iP iS	10	23	13 30	5620 27	
	BOKARO	N,E	i i	10	23	42 31	27	Phases not clear
	CHATRA	Z	i	10	23	47		Distant
	COLOMBO	E	P S L M	10	24	03 31 45 48	6230 59 13 06	Amp 0 4 mm
	MADRAS	E	eP PcP PPP eS PPS e SSS	10	24	04 24 27 32 32 34 38	6450 39 39 04 37 13 24	
	HYDERABAD	E	iP PcP PPP PcS iS PS ScS SS SSS Lq Lr M	10	24	20 25 28 29 32 32 33 36 38 39 42 47	6770 05 05 08 38 53 58 50 53 44 05 42	Initial ground movement towards West
	KODAIKANAL	E	iP eS	10	24	21 32	6800 40	Initial ground motion towards West
	DEHRA DUN	N,E	e	10	24	47		
	POONA	Z E N E N E N	iP PcP PP PPP eS PPS ScS	10	24	53 25 27 28 33 34 34	7140 19 15 47 31 02 29	
	BOMBAY	N,E	eP e	10	24	59 33	46	
07	SHILLONG	Z	iP	13	53	55		Slight
07	SHILLONG	Z	iP	22	50	34		Slight
08	SHILLONG	Z	eP	00	18	01		Slight
	CHATRA	Z	e	00	18	13		Feeble near
08	SHILLONG	Z	iP	00	35	09		Slight
08	CHATRA	Z Z E	iPg iSg	00	01	56 03	130	Slight
08	DEHRA DUN	N E	e	00	41	13		Tremo
08	SHILLONG	Z	iP	11	12	25		Slight
08	SHILLONG	Z	eP	12	52	49		Slight
08	SHILLONG	Z	eP	13	23	37		Slight
08	CHATRA	Z	eP i	17	09	34 10		Feeble
08	POONA	Z	iP	20	37	48		Feeble
	SHILLONG	Z	iP	20	37	49		Slight
08	SHILLONG	Z	eP	20	54	0		Slight
08	SHILLONG	Z	iP	23	37	08		Slight
08	SHILLONG	Z	iP	23	40	34		Slight
08	SHILLONG	Z	i	23	52	18		Slight
09	SHILLONG	Z	eP	02	02	17		Slight
09	Eps 29°N 139°E Off South Coast of Honshu Japan - Es - 600 KmCa - H 00h 24m 44s (Shillong) 30½°N 138½°E - h - 450 KmCa - H - 00h 24m 39s (U S C G S) Mag 6¾ (Pasadena, 6¾ Berkeley)							
	SHILLONG	Z N E N,E	iP pP sP iS sS SS M	00	31	44 33 34 37 40 40 47	3970 30 20 21 02 51 58	Rarefaction Initial ground motion towards North and East Per ~15 secs Amp 1 mm
	CHATRA	Z E	iP iS	00	32	15 38	4400 19	
	BOKARO	N E N	iP pP PPP iS SS sS Lr	00	32	31 34 37 38 41 41 43	4590 27 28 46 35 46 46	Initial ground motion towards North and East
	DEHRA DUN	N E N	eP iS PS SS Lq M	00	33	05 39 40 42 43 49	5130 51 13 02 34 54	
	NEW DELHI	N	eP iS i ScS	00	33	12 39 42 42	5220 04 14 45	
	HYDERABAD	N E N E	iP PcP PP iS PS e ScS SS Lq Lq Lr M M	00	33	35 36 38 40 40 42 43 44 45 46 48 45 50 50	5570 41 45 45 57 34 29 15 39 03 12 33 48 49	Initial ground motion towards North and East Per ~11 secs A - 3 Per ~ 9 secs A - 2
	MADRAS	E	iP PP eS i	00	33	41 35 40 41	5590 34 54 46	Initial ground motion towards East

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	MADRAS (Contd.)	E	ScS	00	42	38		
			i		43	45		
			SSS		46	08		
			M		52	05		
	COLOMBO	E	P	00	33	59	5970	
			S		41	32		
	POONA	Z	iP	00	33	59		
		E	PcP		34	42		
			PP		36	03		PPP 37m 19s
			PcS		38	25		
			iS		41	32		
			PS		41	45		
			ScS		43	02		
			SS		45	10		
			Lq		47	46		
			Lr		50	34		
	BOMBAY	N,E	iP	00	34	05	6080	
		E	PP		35	37		
			iS		41	44		
			SS		44	26		

09 Epc: 22½°N, 144½°E. Mariana Islands Region
= H = 02h 17m 06s (U.S.C.G.S)
Mag: 5.7 (Roma), 5¼ (Praha)

	SHILLONG	Z	iP	02	25	48		Rarefaction
	POONA	Z	iP	02	27	57	7060	
		E	iS		36	40		
	BOMBAY	N,E	e	02	36	53		
			e		37	11		
	CHATRA	Z	e	02	41	20		Distant
09	SHILLONG	Z	iP	07	09	36		Slight, local
09	SHILLONG	Z	iP	07	51	31		Slight compression
09	SHILLONG	Z	iP	10	10	44		Slight
	CHATRA	Z	e	10	10	57		Feeble, distant
09	SHILLONG	Z	iP	10	42	34		Slight rarefaction
09	CHATRA	Z	i	10	43	04		Feeble, near
		E	e		43	07		

09 Epc: 51½°N, 178½°W. In the Aleutians
= H = 11h 02m 09s (U.S.C.G.S)
Mag: 6.1 (Kew), 6.0(Uppsala, Kiruna).

	SHILLONG	Z	eP	11	13	25	7830	
		N,E	iS		22	37		
	CHATRA	Z	e	11	13	38		Distant
			e		23	07		
	DEHRA DUN	N,E	eP	11	14	00	8130	Phases not clear
			eS		23	28		
	HYDERABAD	N,E	iP	11	14	52	9170	Initial ground motion towards North and East
			PP		18	08		
			iS		25	09		
		N	ScS		25	34		
			PPS		26	39		
		N,E	SS		30	28		
		N	PKKS1		36	13		
			M		47	37		Per.=15 secs μ = 5
		E	M		48	07		Per.=16 secs μ = 4
	POONA	Z	iP	11	14	55	9490	
		E	eS		25	30		
	BOMBAY	N,E	eP	11	15	04		
			e		25	33		
		N	M		51	--		
	BOKARO	N,E	i	11	23	38		
	COLOMBO	E	S	11	25	53		
			L		57	01		
			M	12	02	36		
09	SHILLONG	Z	iP	14	22	55		Slight Compression
09	CHATRA	Z	iP					
		E	ePD	16	09	49		Slight
			i		10	12		
09	SHILLONG	Z	iP	16	10	08		Slight
09	SHILLONG	Z	iP	17	51	28		Slight rarefaction

09 Epc: 52½°N, 169°W. In the Aleutians
= H = 20h 23m 56s (U.S.C.G.S)

	SHILLONG	Z	iP	20	35	40		Slight compression
	DEHRA DUN	N,E	e	20	36	12		Slight, phases
			i		46	26		not clear
	POONA	Z	iP	20	37	01	10140	Slight
		E	eS		47	58		
	HYDERABAD	E	M	21	17	14		Per.=12 secs μ = 3
		N	M		17	38		Per =15 secs μ = 4
09	SHILLONG	Z	eP	21	45	13	70	Feeble
			Sg		45	20		
09	SHILLONG	Z	iP	22	23	39		Slight distant Compression
09	SHILLONG	Z	iP	22	45	16		Slight, distan Compression
09	SHILLONG	Z	iP	23	00	52		Slight, distan Compression
10	SHILLONG	Z	iP	01	30	07		Slight, local
10	SHILLONG	Z	iP	03	37	08		Slight, distant Compression
	POONA	Z	iP	03	38	28		Very feeble
	BOMBAY	N	eP	03	38	29	10030	Slight
		N,E	eS		49	22		
10	BOMBAY	N,E	e	05	31	45		Slight, distan
		E	e		32	58		
		N	e		38	15		
	POONA	Z	iP	05	31	48		Feeble
	HYDERABAD	N	e	05	31	54		
			M	06	26	48		Per =18 secs μ = 8
10	SHILLONG	Z,E	iP	09	20	43	7930	Slight, distant
		N,E	iS		30	01		Rarefaction
	CHATRA	Z	i	09	20	53		Feeble, distan
	POONA	Z	iP	09	22	10		Tremor
	BOKARO	N,E	e	09	30	57		Tremor
	HYDERABAD	N	e	09	32	30		
			M		59	57		Per =18 secs μ = 5

10 Epc: 54.5°N, 153°W Kodiak Islands Region
H = 11h 29m 54s (Shillong)
56°N. 154°W = H = 11h 29m 58s (U.S.C.G.S)
Mag: 7(Pasadena), 7¼(Berkeley)

	SHILLONG	Z,N,E	iP	11	42	17	9130	Initial ground
		N,E	PP		45	12		motion towards
			PPP		47	14		South and West
			iS		52	32		
			SKS		52	40		
			PS		53	21		
			PPS		53	37		
			SS		57	57		
			SSS	12	01	17		
			Lq		03	41		
			Lr		07	35		
			M		13	35		Per.=25 secs Amp =18.5 mm
	CHATRA	Z	iP					
		E	ePD	11	42	23		
	DEHRA DUN	N,E	eP	11	42	27	9240	
		N	PP		45	38		
			PPP		47	40		
			iS		52	47		
			PS		54	00		
			SS		58	17		
			SSS	12	03	17		
			Lr		09	22		
			M		16	41		Per.=15 secs μ =123

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
9	BOKARO	N E	iP	11	42	40	9690	Initial ground motion towards South and West
		N	PP		46	00		
			SKS		53	06		
			iS		53	19		
			PS		54	25		
			SS		59	13		
			Lq	12	06	40		
			Lr		10	56		
			M		17	19		Per. ≃ 23 secs μ ≃ 448
	HYDERABAD	N, E	iP	11	43	24	10550	Initial ground motion towards South and West
		N	PP		47	13		
		N, E	PPP		49	10		
			e		53	43		
			SKS		53	55		
		N	e		55	01		
			e		59	37		
			e	12	01	07		
			Lr		10	49		
		E	Lr		10	51		
			M		16	33		Per. ≃ 20 secs μ ≃ 126
		N	M		16	40		Per. ≃ 22 secs μ ≃ 144
	POONA	Z	eP	11	43	24	10640	
		E	PP		47	15		
			PPP		49	18		
			SKS		54	03		
			PS		55	39		
			PPS		56	13		
			SS	12	00	23		
			Lq		09	09		
			M		20	51		
	BOMBAY	N E	eP	11	43	28	10660	
			PP		47	17		
			SKS		54	04		
			eS		54	17		
			PPS		56	13		
		E	SS	12	03	08		
			Lq		06	05		
			Lr		10	49		
			M		31	29		Per. ≃ 15 secs μ ≃ 39
		N	M		32	10		Per. ≃ 12 secs μ ≃ 63
	MADRAS	E	eP	11	43	32	10940	
			PP		47	37		
			e		53	35		
			SKS		54	13		
			e		55	33		
			e	12	01	16		
			e		04	21		
			e		10	00		
	KODAIKANAL	E	eP	11	43	58	11390	
			SKS		54	34		
			e		55	34		
			e	12	03	46		
			e		04	37		
			M		22	16		Per. ≃ 15 secs Amp ≃ 67.3 mm
	COLOMBO	E	e	11	48	10		
			e		54	30		
			e		58	52		
			e	12	21	30		
			e		31	08		
10	SHILLONG	Z	iP	13	31	37		Slight, distant compression
10	SHILLONG	Z	eP	15	06	39		Slight
10	SHILLONG	Z	eP	22	11	53		Slight, local
11	DEHRA DUN	N, E	e	18	02	41		Feeble
12	DEHRA DUN	N E	e	00	22	09		Tremor
	POONA	Z	i	00	25	18		Tremor
			i		25	25		
	MADRAS	E	e	00	28	55		Feeble
12	POONA	Z	iP	04	30	29		Tremor
12	CHATRA	Z	iP	12	27	02	1110	Slight
			iS		28	56		
12	BOMBAY	E	e	16	04	58		Very slight
			e		10	02		
12	CHATRA	Z	e	17	55	40		Feeble, near
13	CHATRA	Z	eP	06	38	10	1090	Slight
			iS		40	02		
	POONA	Z	eP	06	39	28		Tremor
13	Epc. 5°N, 126½°E, In Philippines H ≃ 10h 10m 48s (U.S.C.G.S)							
	COLOMBO	E	P	10	18	19		
			e		26	01		
	CHATRA	Z	e	10	18	53		Slight
	MADRAS	E	eP	10	19	21		Feeble
			e		25	58		
	HYDERABAD	E	eP	10	19	44	5110	Slight
			PP		21	32		
			iS		26	29		
		N	SS		29	20		
			Lq		30	20		
		E	Lq		30	29		
		N	Lr		32	35		
		E	Lr		32	56		
		N	M		36	41		Per. ≃ 8 secs μ ≃ 2
		E	M		37	02		Per. ≃ 8 secs μ ≃ 2
	POONA	Z	eP	10	20	06		Feeble
		E	e		27	22		
			e		27	58		
	DEHRA DUN	N, E	e(P)	10	20	07	5460	Slight. Phases not clear
			i(S)		27	12		
	BOMBAY	E	eP	10	20	15	5870	Slight
		N, E	eS		27	43		
		E	PPS		28	07		
		N, E	ScS		30	07		
		E	SS		31	36		
13	POONA	Z	iP	15	59	09		Tremor
13	CHATRA	Z	eP	16	26	27		Feeble
			i		26	58		
13	CHATRA	Z	i	18	27	26		Feeble, near
14	Epc. 31°N, 84.5°E, Southern Tibet H ≃ 07h 11m 50s (Shillong and U.S.C.G.S) Mag. 6.9 (Praha, Roma), 6.7 (Uppsala, Kiruna), 6.5 (Moscow), 6.4 (Shillong).							
	CHATRA	Z	iP	07	13	08		
		E	i		16	50		
	DEHRA DUN	N, E	eP	07	13	23	670	
		N	iS		14	34		
	BOKARO	N, E	iP	07	13	39	800	Initial ground motion towards North
			PP		13	49		
		N	P*		13	56		
			iPg		14	16		
			Lq		14	54		
			iS		15	05		
			S*		15	29		
			iSg		15	51		
	SHILLONG	Z, E	iP	07	13	56	960	
		E	PP		14	03		
			PPP		14	09		
			P*		14	17		
			Pg		14	37		
			Lq		15	23		
			iS		15	34		
			SS/Lr		15	44		
			SSS		15	56		
			S*		16	01		
			Sg		16	19		
	HYDERABAD	E	iP	07	15	15	1470	Initial ground motion towards East
			PP		15	30		
			iS		17	44		
			SS		18	06		
			Lr		18	30		
			M		19	15		Per. ≃ 14 secs μ ≃ 357
		N	M		19	21		Per. ≃ 11 secs μ ≃ 306
	POONA	Z, N, E	iP	07	15	31	1590	Initial ground motion towards North and East Rarefaction
		N, E	PPP		16	00		
			iS		18	11		
			Lr		18	39		
			M		19	--		
			PcS		24	47		
			ScS		27	26		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
14	BOMBAY	N,E	iP	07	15	36	1630	
			PPP		15	50		
			Lq		18	12		
			iS		18	21		
		N	SS		18	41		
			SSS		18	53		
		E	M		20	13		Per.=15 secs μ =459
		N	M		21	47		Per.=13 secs μ =264
	MADRAS	E	iP	07	16	05	1930	Initial ground motion towards East
			PP		16	16		
			iS		19	19		
			SS		19	35		
			SSS		19	59		
			Lr		20	11		
			PcP		20	26		
			ScP		24	06		
	KODAIKANAL	E	iP	07	16	47	2420	Initial ground motion towards West
			PP		17	08		
			PPP		17	26		
			iS		20	44		
			Lq		21	08		
			SS		21	23		
			Lr		22	14		
			M		24	20		
			ScS		27	53		
	COLOMBO	E	P	07	17	19	2620	
			S		21	29		
			L		24	37		
			M		25	34		Amp: 10.2 mm
14	CHATRA	E	iP	07	38	07	730	Slight
			iS		39	23		
14	CHATRA	Z	iP	12	40	05	820	Slight
		E	iS		41	30		
	DEHRA DUN	N,E	e	12	41	58		Tremor
14	Epc: 31°N, 84½°E. Aftershock of previous Tibetan shock - H = 16h 36m 48s (B.C.I.S)							
	DEHRA DUN	N,E	eP	16	38	25	710	
		N	iS		39	49		
			M		40	51		
	NEW DELHI	N	eP	16	38	34	740	Slight
			P*		38	48		
			iS		39	52		
			SS		40	05		
			S*		40	14		
			Sg		40	32		
	BOKARO	N,E	iP	16	38	37	800	Initial ground motion towards North
		E	PPP		38	54		
			iS		40	00		
	SHILLONG	Z,E	iP	16	38	54	960	
		E	iS		40	32		
	HYDERABAD	E	iP	16	40	10	1500	Moderate. Initial ground motion towards East
			PPP		40	29		
			iS		42	42		
			SSS		43	04		
			Lr		43	25		
			M		44	25		Per.=8 secs. μ=6
	POONA	Z	iP	16	40	28	1620	Slight
		N	eS		43	12		
	BOMBAY	N,E	eP	16	40	33	1630	Slight
			eS		43	18		
			SSS		43	47		
		E	M		45	40		Per.=16 secs μ =13
		N	e		45	42		
			M		48	34		Per.=7 secs. μ=6
	MADRAS	E	eP	16	41	01	1950	Moderate
			PP		41	16		
			iS		44	16		
			SS		44	39		
			SSS		44	46		
			Lr		45	08		
			PcP		45	26		
			i		45	41		
			M		46	26		
			ScP		48	51		
	KODAIKANAL	E	eP	16	41	46	2420	Slight
			eS		45	43		
			Lq		46	04		
			SS		46	25		
			SSS		46	43		
			Lr		47	24		
			M		49	04		Per.=7 secs. μ=6.6
	COLOMBO	E	P	16	42	19	2830	
			S		46	44		
14	Epc: 15½°S, 173°W. Samoa Islands Region - H = 19h 17m 57s (U.S.C.G.S) Mag: 8 (Pasadena), 7¾ (Praha).							
	SHILLONG	Z,E	iP	19	31	49	9110	
		E	iS		42	03		
	CHATRA	E	eP	19	32	37		
			i		42	54		
	KODAIKANAL	E	eP	19	32	37	12990	
			PP		37	19		
			PS		46	49		
			PPS		48	22		
			Lr	20	12	23		
			M		22	13		Per.=21 secs μ =25.2
	BOMBAY	E	e	19	33	04		Distant
			e		36	14		
		N,E	e		37	51		
		E	e		40	12		
			e		43	05		
		N	e		45	50		
			e		46	16		
		E	e		47	37		
		N,E	e		51	15		
		E	e		55	00		
			M	20	32	44		Per.=23 secs μ =19
		N	M		34	21		Per.=20 secs μ =17
	DEHRA DUN	N,E	e	19	34	22		
		N	e		38	17		
			e		40	15		
			i		45	14		
			e		46	23		
			e		47	16		
			e		51	37		
			e	20	04	21		
	NEW DELHI	N	e	19	34	37		
			e		38	31		
			e		45	24		
			e		45	46		
			i		47	05		
			e		53	22		
			e		57	18		
			e	20	03	45		
			e		17	15		
	BOKARO	N,E	e	19	35	13		
			i		36	36		
	HYDERABAD	E	e	19	35	53		
			e		38	11		
			e		41	32		
			e		43	02		
			e		44	45		
			e		45	29		
			i		46	49		
			e		48	58		
			e		55	11		
			e		58	56		
		N	e	20	03	47		
			e		10	47		
		E	e		10	59		
		N	e		17	47		
	POONA	Z	e	19	36	44		Distant Phases not clear
		N	e		46	01		
			e		53	53		
			e	20	04	51		
	MADRAS	E	e	19	36	56		Feeble
	COLOMBO	E	e	19	37	48		
			e		46	08		
			e	20	10	28		
			e		20	40		
14	POONA	Z	iP	21	11	45		Slight
15	CHATRA	E	eP	02	52	00		Slight
			i		53	09		
	DEHRA DUN	N,E	e	02	52	09		Feeble
			i		53	46		
	BOKARO	N,E	e	02	53	47		Slight. Phases not clear
			i		54	21		
			i		54	45		
	POONA	Z	iP	02	54	24		Feeble

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15	POONA	Z	eP	02 54 31			
		E	e	56 54			
			e	58 21			
	BOMBAY	N	e	02 57 07		Slight	
			e	59 03			
	MADRAS	E	eP	02 58 04		Feeble	
			e	59 45			
			e	03 01 13			
			e	08 42			
	HYDERABAD	E	M	02 56 23		Per = 9 secs	
						μ = 2	
		N	M	57 31		Per = 8 secs	
						μ = 2	
15	CHATRA	Z	e	04 59 40		Feeble, near	
15	CHATRA	Z	iP	08 50 12	870	Slight	
		E	iS	51 42			
	BOMBAY	N	e	08 57 38		Very slight	

15 Epc 51½°N 179°W In the Aleutians
H = 10h 38m 37s (U.S.C.G.S)
Mag 5¾ (Moscow)

SHILLONG	Z,N,E	iP	10 49 48	7700	Compression	
	E	iS	58 55			
CHATRA	Z	eP	10 50 03	8040		
	E	iS	59 26			
HYDERABAD	N,E	iP	10 51 11	9880	Initial ground motion towards South and West	
		iS	11 01 33			
		ScS	01 48			
	E	M	24 33		Per = 18 secs	
					μ = 5	
	N	M	25 30		Per = 17 secs	
					μ = 5	
BOMBAY	N	eP	10 51 22	9890		
		SKS	11 01 57			
		eS	02 09			
MADRAS	E	i	10 51 23			
		i	52 04			
POONA	Z	iP	10 52 18			
	E	e	11 02 49			

15 Epc 52½°N 167°E Fox Islands in the Aleutians
H = 21h 33m 05s (U.S.C.G.S)

CHATRA	Z	iP	21 45 18	8570	Slight	
	E	iS	55 07			
BOMBAY	E	e	21 45 26		Slight	
		e	57 21			
HYDERABAD	N	iP	21 46 11	9630		
		iS	56 48			
		ScS	57 07			
		PS	57 46			
		PPS	58 19			
		SS	22 02 52			
		Lr	14 55			
	E	M	18 25		Per = 18 secs	
					μ = 4	
POONA	Z	iP	21 46 20		Very feeble	

16 Epc 3°S 104°E Western Java Sea h = 300 KmCa
H = 04h 04m 20s (Shillong)
4½°S 107½°E h = 600 KmCa
H = 04h 04m 04s (U.S.C.G.S)
Mag 7½ (Pasadena) 7 3 (Uppsala, Kiruna)

COLOMBO	E	P	04 09 20			
		e	12 08			
		e	15 --			
		e	16 45			
MADRAS	E	iP	04 09 49	3190	Initial ground movement towards East	
		i	10 36			
		i	12 57			
		iS	14 12			
		sS	15 52			
		i	16 16			
SHILLONG	Z,N,E	iP	04 10 02	3390	Initial ground motion towards South and East	
		pP	11 01			
		PP	11 09			
16 SHILLONG Contd	Z,N,E Contd	PPP	11 36			
		iS	14 37			
		Lq	15 09			
		SS	16 41			
		M	19 31		Per = 12.5 secs Amp = 5 mm	
BOKARO	N,E	iP	04 10 15	3520		
	N	PP	11 08			
		pP	11 12			
		PPP	11 16			
		PcP	13 18			
		iS	15 00			
		Lq	16 18			
		SS	16 38			
		sS	16 53			
		Lr	17 38			
HYDERABAD	N,E	iP	04 10 21		Initial ground motion towards South and East	
		i	15 13			
	N	e	16 49			
		e	17 02			
	N,E	e	18 32			
	E	M	21 01		Per = 10 secs	
					μ = 7	
CHATRA	Z	iP	04 10 28			
	E	i	15 32			
POONA	Z	iP	04 10 55			
	E	PP	12 15			
		PPP	12 32			
		PcP	13 33			
		iS	16 18			
		SS	18 35			
		SSS	18 57			
		ScS	20 53			
		M	22 53			
BOMBAY	N	iP	04 11 03	4300		
		PP	12 14			
		PPP	12 53			
		iS	16 35			
		ScS	17 37			
		Lq	18 40			
		SS	18 55			
		Lr	20 05			
16 SHILLONG	Z	iP	11 53 47		Slight compression	
16 CHATRA	Z	eP	15 15 06		Slight	
	E	e	16 32			
SHILLONG	Z	iP	15 15 54		Slight compression	
16 SHILLONG	Z	iP	15 17 06		Slight	
16 SHILLONG	Z	iP	17 07 55		Slight	
CHATRA	Z	eP	17 08 40		Slight	
		e	10 20			
16 SHILLONG	Z	eP	18 04 39		Slight	
16 CHATRA	Z	e	22 52 24		Feeble	
17 SHILLONG	Z	eP	00 25 47	90	Slight	
		Sg	25 55			
17 HYDERABAD	E	M	03 22 47		Per = 15 secs	
					μ = 3	
17 SHILLONG	Z	iP	05 06 49	220	Slight compression	
		Sg	07 20			
17 CHATRA	Z	i	06 22 07		Feeble, near	
17 SHILLONG	Z	eP	09 39 34		Slight distant	
17 SHILLONG	Z	iP	10 29 17		Slight	
CHATRA	Z	iP	10 30 18		Feeble	
		i	32 18			

17 Epc 52½°N 169°W In the Aleutians
H = 13h 24m 58s (U.S.C.G.S)

SHILLONG	Z	eP	13 36 46		Slight
CHATRA	Z	e	13 36 54		Feeble, distant
POONA	Z	iP	13 38 06		Slight
	E	e	48 58		

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		E	eS		49	03		
		N,E	e		49	20		
	HYDERABAD	E	M	14	16	20		Per. ≈ 15 secs μ = 2
		N	M		19	02		Per. ≈ 15 secs μ = 3
17	SHILLONG	Z	iP	15	19	23		Slight compression
17	SHILLONG	Z	iP	16	56	51	220	Slight compression
			Sg		57	21		
17	SHILLONG	Z	eP	18	06	37	240	Slight
			Sg		07	12		
17	POONA	Z	iP	18	29	13		Very feeble
17	SHILLONG	Z	eP	18	30	45		Slight
17	SHILLONG	Z	eP	19	05	35		Feeble
17	SHILLONG	Z	eP	22	00	04		Tremor
17	SHILLONG	Z	iP	22	24	15		Slight
17	CHATRA	Z	iPg	23	46	55	130	Slight
		E	iSg		47	12		
	SHILLONG	Z	iP	23	47	55		Slight
18	SHILLONG	Z	iP	00	27	57		Slight, distant
18	CHATRA	Z	i	05	32	14		Feeble, near
18	SHILLONG	Z	iP	07	11	26		Slight compression
	CHATRA	Z	e	07	11	39		Feeble, distant
18	SHILLONG	Z	iP	07	55	38		Tremor
18	SHILLONG	Z	iP	13	32	12		Tremor
18	SHILLONG	Z	eP	16	39	43		Slight
18	SHILLONG	Z	iP	17	03	26		Slight compression
	CHATRA	Z	eP	17	04	17		Feeble
			i		05	50		
18	SHILLONG	Z	iP	19	55	03		Slight
18	CHATRA	Z	i	22	12	40		Feeble, near
	DEHRA DUN	N,E	e	22	14	35		Feeble
	SHILLONG	Z	eP	22	18	58		Slight
			e		19	22		
19	SHILLONG	Z	iP	08	50	50		Slight compression
19	CHATRA	Z	eP	12	11	33		Feeble
			i		12	01		
	SHILLONG	Z	eP	12	12	42		Slight, local
19	CHATRA	Z	i	14	57	31		Tremor

19 Epc: 51½°N, 168½°W. Fox Islands
= H = 15h 44m 53s G.M.T. (U.S.C.G.S)

	SHILLONG	Z,E	iP	15	56	44	8360	Slight. Initial ground motion towards North & East. Rarefaction
		N,E	iS	16	06	23		
	DEHRA DUN	N,E	e(P)	15	56	46	8910	Feeble
			i(S)	16	06	51		
	CHATRA	Z	iP	15	56	57		Slight
	HYDERABAD	N	iP	15	57	59	9370	Slight. Initial ground motion towards North
			PP	16	01	23		
			iS		08	25		
			ScS		08	44		
			PS		08	59		
			PPS		10	05		
			SS		14	09		

			M		31	08		Per. ≈ 22 secs μ = 7
		E	M		31	26		Per. ≈ 18 secs μ = 5
	POONA	Z	iP	15	58	06	10140	Feeble
		E	eS	16	09	03		
	BOMBAY	N,E	eP	15	58	08	10190	Slight
		E	e	16	08	55		
			eS		09	07		
19	BOMBAY	E	e	17	44	10		Slight
			e		48	20		
		N,E	e		48	27		

19 Epc: 52°N, 166½°W. Fox Islands in the Aleutians
= H = 22h 19m 26s G.M.T. (U.S.C.G.S)
Mag: 7-7¼ (Pasadena)

	SHILLONG	Z,N,E	iP	22	31	26	9400	Rarefaction
		N,E	PcP		31	40		Initial ground
			PP		34	16		motion towards
			PPP		36	03		North and East
			iS		41	07		
			SKS		41	29		
			ScS		41	36		
			PS		41	43		
			PPS		41	58		
			SS		45	58		
			SSS		49	08		
			Lq		51	18		
			Lr		54	54		
			M	23	01	14		Per. ≈ 26 secs Amp. 3 mm
	CHATRA	Z	iP	22	31	33	8570	
		E	iS		41	22		
	DEHRA DUN	N,E	eP	22	31	39	8870	
		N	PP		34	45		
			iS		41	42		
			PPS		42	46		
			SS		47	13		
			SSS		51	13		
			Lq		53	16		
			M	23	03	52		
	BOKARO	N,E	iP	22	31	50	9040	Initial ground motion towards North and East
			iS		42	01		
	NEW DELHI	N	iP	22	31	52	9090	Initial ground motion towards
			PPP		35	45		
			i		41	13		North
			iS		42	05		
			SS		47	13		
			Lq		53	54		
			M	23	04	58		
	HYDERABAD	N,E	iP	22	32	35	9370	Initial ground motion towards
		N	PP		36	08		
		N,E	iS		43	01		North and East
			ScS		43	26		
			PPS		44	26		
			SS		48	05		
		N	PKKP1		49	45		
			SSS		51	29		
			PKKS1		54	05		
		E	Lr	23	00	11		
		N	Lr		00	20		Per. ≈ 27 secs
			M		05	33		μ = 39
		E	M		06	08		Per. ≈ 16 secs μ = 10
	BOMBAY	E	iP	22	32	42	10250	
			SKS1		43	14		
			SKKS1		43	25		
			iS		43	43		
			PS		45	10		
			PPS		45	26		
			SS		50	01		
			SSP		50	18		
		N	M	23	17	--		Per. ≈ 21 secs μ = 14
		E	M		19	16		Per. ≈ 23 secs μ = 16
	POONA	Z	iP	22	32	43	10220	
		E	PP		36	27		
			PPP		38	44		
			SKS1		42	56		
			SKKS1		43	02		

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DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
19	POONA	E	iS	22	43	43		
Contd	Contd		ES		45	16		
			SS		50	19		
			SSS		54	08		
	MADRAS	E	iP	22	32	48	10260	Initial ground
			PP		36	40		movement
			PPP		38	45		towards East
			SKKS		43	21		
			SKKKS		43	34		
			S		43	50		
			PS		45	18		
			PPS		46	00		
	KODAIKANAL	E	iP	22	33	08	10890	Initial ground
			PP		37	05		motion towards
			SKS		43	39		West
			SKKS		44	02		
			iS		44	32		
			PS		46	02		
			PPS		46	59		
			SS		51	17		
			SSP		51	41		
			Lq	23	01	20		
			M		54	05		Per = 18 secs
								μ = 7 3
	COLOMBO	E	P	22	33	17	11000	
			SKS		43	51		
			L	23	09	21		
			M		16	49		Amp 0 6 mm
19	SHILLONG	Z	eP	23	03	13		Slight local
20	CHATRA	Z	e	03	14	07		Feeble, near
20	CHATRA	Z	eP	08	59	05		Feeble
			i	09	00	53		
20	Epc 14½°S 147½°E Near Coast of New Guinea							
	H 12h 30m 37s G M T (U S C G S)							
	CHATRA	Z	i	12	41	36		Slight, distant
	COLOMBO	E	P	12	41	50	7670	
			S		50	52		
	MADRAS	E	eP	12	41	38		Slight
			e		42	19		
			e		42	27		
			e		45	46		
			e		46	07		
			e		46	26		
			e		46	40		
			e		47	05		
	HYDERABAD	E	e	12	42	04		
			M	13	09	46		Per = 18 secs
								μ = 5
	POONA	Z	iP	12	42	37	8780	Feeble
		E	eS		52	36		
	DEHRA DUN	N E	e	12	42	38		Feeble
			i		52	03		
	BOMBAY	E	eP	12	42	38	8750	Slight
		N E	eS		52	36		
			PS		53	12		
20	CHATRA	Z	eP	15	56	00	810	Slight
			iS		57	24		
20	SHILLONG	Z	eP	23	03	13		Slight, local
21	SHILLONG	Z	eP	14	11	39	150	Slight local
			Sg		11	56		
21	CHATRA	Z	iP	20	05	20	390	Feeble
			iS		06	02		
21	Epc 3°N 72°W Colombia-Venezuela Border							
	H 21h 12m 26s G M T (U S C G S)							
	Mag 6½ (Pasadena)							
	CHATRA	Z	ePKP1	21	31	56		
		E	e		37	12		
	POONA	Z	PKP1	21	31	57		
			e		34	46		
	SHILLONG	Z	iPKP1	21	31	59		Compression
21	BOMBAY	N E	ePKP1	21	32	05	16290	
			PP		35	27		
		E	PPP		38	25		
			PKKP1		40	33		
			PS		46	40		
		N E	PPS		48	22		
			SKKKS		49	25		
		N	e		54	05		
		E	SS		54	29		
			SSP		55	04		
			M	22	38	03		Per = 23 secs
								μ = 10
		N	M		52	31		Per = 19 secs
								μ = 4
	MADRAS	E	iPKP1	21	32	18		Other phases
								not clea
	NEW DELHI	N	e	21	34	24		
			i		35	26		
			e		37	42		
			e		39	13		
			i		54	21		
			i		56	49		
21	KODAIKANAL	E	e	22	32	09		Tremor distant
21	SHILLONG	Z	eP	23	29	17		Slight
22	Epc 30°N 84½°E Southern Tibet							
	H 00h 18m 20s (Shillong)							
	30½°N 84½°E H 00h 18m 16s (U S C G S)							
	CHATRA	Z	iP	00	19	34		Slight
		E	i		20	57		
		Z	i		24	22		
	SHILLONG	Z,N,E	iP	00	20	20	890	Slight
		N E	PP		20	26		Rarefaction
			PPP		20	35		
			Lq		21	37		
			iS		21	52		
			SS		22	04		
			SSS		22	16		
			M		22	49		
	BOKARO	N,E	e	00	21	24		Slight
			i		22	22		
	POONA	Z	iP	00	21	37	1630	Slight
			iS		24	41		
	BOMBAY	N E	S	00	24	46		Slight
			e		26	33		
			e		26	42		
			e		27	10		
		N	e		29	36		
		E	e		29	53		
	MADRAS	E	i	00	28	07		Slight
22	Epc 30½°N 84½°E Tibet H 01h 42m 15s (U S C G S)							
	CHATRA	Z	iP	01	42	35		Moderate
		E	i		44	49		
	NEW DELHI	N	eP	01	43	17		Slight
			i		44	27		
			i		45	06		
			i		45	59		
	SHILLONG	Z,N,E	iP	01	44	26	940	
		E	PP		44	33		
			PPP		44	40		
			Pg		45	09		
			iS		46	03		
			SSS		46	26		
			Sg		46	57		
	BOKARO	N,E	e	01	44	29		Slight
			i		45	43		
	POONA	Z	iP	01	45	58	1580	Slight
			iS		48	37		
	BOMBAY	N E	eP	01	46	05	1590	Slight
			eS		48	45		
			e		49	38		
		N	M		53	28		Per = 6 secs μ = 7
		E	M		53	35		Per = 7 secs μ 6

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
					April 1957			
22 Contd.	MADRAS	E	eP	01	46	34	2120	Slight
			e		49	41		
			eS		50	04		
			SS		50	16		
			e		50	35		
			M		52	01		
			ScP		54	29		
			ScS		58	37		
	KODAIKANAL	E	eP	01	51	06		Slight
			e		53	24		
			e		53	36		
			e		54	06		
			e		55	18		
22	SHILLONG	Z	iP	04	29	58		Slight compression
22	Epc: 31°N, 91°E. Tibet. - H = 05h 29m 01s (U S C.G.S)							
	CHATRA	Z	iP	05	30	21		Slight
			i		31	57		
	SHILLONG	Z,N,E	iP	05	30	25	610	Slight rarefaction
		E	P*		30	37		
			Pg		30	50		
			eS		31	30		
			S*		31	48		
			Sg		32	04		
	BOKARO	N,E	e	05	32	36		Slight
			e		33	04		
			i		33	30		
	POONA	Z	iP	05	33	37		
	BOMBAY	E	eP	05	33	42		Slight
			e		38	28		
			e		39	22		
			e		39	44		
			e		40	40		
			e		42	23		
		N	e		42	51		
22	DEHRA DUN	N,E	e	12	38	37		Tremor
22	SHILLONG	Z	iP	14	02	46		Slight compression
22	SHILLONG	Z	iP	15	56	54		Slight, distant
22	SHILLONG	Z	eP	19	12	59		Tremor
22	DEHRA DUN	N,E	e	19	56	59		Tremor
22	SHILLONG	Z	iP	19	55	18		Slight rarefaction
22	KODAIKANAL	E	e?	20	26	09		Tremor
22	CHATRA	Z	iP	21	35	40		Slight
		E	i		38	17		
	SHILLONG	Z	eP	21	36	27		Slight
22	SHILLONG	Z	iP	21	38	37		Slight compression
	DEHRA DUN	N,E	e	21	38	48		Feeble
			i		40	19		
	POONA	Z	iP	21	42	59		Very feeble
	BOMBAY	N,E	e	21	43	58		Very slight, near
		E	e		45	15		
			e		45	26		
22	CHATRA	Z	iPg	22	01	04	130	Slight
			iSg		01	21		
22	CHATRA	Z	iPg	22	33	54	140	Slight
			iSg		34	12		
22	SHILLONG	Z	iP	23	29	39	110	Slight
			Sg		29	52		
23	SHILLONG	Z	iP	03	14	31		Slight
23	SHILLONG	Z	eP	11	40	05		Slight
23	SHILLONG	Z	eP	16	13	40		Slight
	CHATRA	Z	eP	16	14	10		Feeble
			i		15	04		
23	CHATRA	Z	iP	19	42	25		Slight
		E	i		43	45		
	SHILLONG	Z	iP	19	43	13		Slight
	DEHRA DUN	N,E	e	19	44	19		Tremor
23	SHILLONG	Z	eP	21	21	26		Slight
	CHATRA	Z	eP	21	22	21		Feeble
			i		23	45		
23	POONA	Z	iP	22	18	26		Very feeble
23	SHILLONG	Z	iP	22	18	48		Slight
23	SHILLONG	Z	eP	23	17	39		Slight
24	SHILLONG	Z	eP	00	19	59		Slight
24	SHILLONG	Z	eP	10	57	16		Slight
24	CHATRA	Z	iP	19	00	01		Slight
			i		00	27		
24	Epc. 36°N, 28½°E. Turkey. - H =19h 10m 05s (USCGS) Mag: 6¾-7 (Pasadena), 7-7¼ (Berkeley)							
	NEW DELHI	N	iP	19	17	51	4460	Direction of first motion
			PP		19	29		
			PPP		19	58		North
			iS		23	58		
			SS		26	44		
			Lq		27	10		
			SSS		27	22		
			M		32	54		
	BOMBAY	N,E	eP	19	18	08	4630	
			e		19	19		
			PP		19	55		
		E	PPP		20	36		
			PcS		23	55		
		N,E	eS		24	26		
			PS		24	44		
		E	SS		27	36		
		N,E	Lq		27	55		
		E	SSS		28	22		
		N	M		39	08		Per. ±20 secs
								μ ±29
		E	M		39	27		Per. ±23 secs
								μ ±37
	POONA	Z	iP	19	18	13	4710	
		E	PP		19	51		
			PPP		20	35		
		N,E	iS		24	36		
		E	PPS		24	50		
			SS		27	40		
			Lq		28	06		
			SSS		28	37		
			Lr		30	01		
		N	M		38	--		Per. ±24 secs
								μ ±49
	HYDERABAD	N	iP	19	18	44	5170	Initial ground movement towards North
			PcP		20	00		
			PP		20	41		
			iS		25	33		
			PPS		26	01		
			ScS		28	37		
			SS		29	19		
			SSS		30	19		
			Lr		33	01		
			M		35	57		Per. ±24 secs
								μ ±65
	CHATRA	Z	iP	19	19	03	5370	
		E	iS		26	03		
	BOKARO	N,E	iP	19	19	07	5460	Initial ground motion towards North and West
		E	i		19	11		
			i		19	32		
			PcP		20	21		
			pP		20	23		
			PP		20	54		
			i		21	07		
			iS		26	12		
			i		26	45		
			i		27	02		
			sS		28	24		
			Lq		30	41		
			Lr		33	25		

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International Seismological Centre

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
					April 1957			
24 Contd	KODAIKANAL	E	iP	19	19	16	5590	
			PcP		20	31		
			PP		21	13		
			PPP		22	25		
			PcS		24	31		
			iS		26	29		
			ScS		29	09		
			SS		30	00		
			Lq		31	21		
			Lr		34	03		
			M		38	15		Per. 15 secs μ 19.2
	MADRAS	E	iP	19	19	17	5790	
			PcP		20	19		
			PP		21	18		
			PPP		22	20		
			ScP		24	10		
			S		26	41		
			ScS		28	43		
			SS		30	18		
			SSS		32	09		
			M		39	21		
	SHILLONG	Z.N.E	eP	19	19	35	5900	Initial ground
		N.E	PP		21	35		motion towards
			PPP		22	39		North and West
			iS		27	05		
			PS		27	12		
			PPS		27	20		
			SS		30	35		
			SSS/Lq		32	24		
			Lr		34	50		
			M		39	20		Per. 18.7 secs Amp. 3.0 mm
	COLOMBO	E	iP	19	19	38	6120	
			iS		27	20		
			L		35	28		
			M		41	33		Amp. 1.6 mm
	DEHRA DUN	N.E	eP	19	20	43	4430	Moderate
		N	PP		22	14		Absolute time
			PPP		22	40		uncertain
			iS		26	48		
			Lq		29	27		
			SS		29	44		
			SSS		30	25		
			Lr		31	31		
			M		35	01		
	PORT BLAIR	E	iP	19	20	48		
			e		29	09		

25 Epc 36½°N 29°E Near South Coast of Turkey
H = 02h 25m 36s (U.S.C.G.S)
Mag. 7-7¼ (Pasadena) 7 (Berkeley)
15 killed many injured and extensive property damage throughout Southeastern Turkey and the Islands of Rhodes

	NEW DELHI	N	iP	02	33	23	4490	Initial ground
			pP		34	59		movement
			PPP		35	23		towards North
			PcS		39	13		
			iS		39	33		
			i		40	34		
			SS		42	36		
			Lq		42	57		
			ScS		43	32		
			M		47	58		
	BOMBAY	E	eP	02	33	35	4570	
			PP		35	25		
			PPP		36	12		
			iS		39	49		
			SS		42	44		
			Lq		43	02		
			SSS		43	25		
			Lr		44	53		
			M		54	48		Per. 21 secs μ 57
	POONA	Z	iP	02	33	42	4740	Compression
		E	PP		35	27		Initial ground
			PPP		35	58		motion towards
			iS		40	06		South and East
			PS		40	12		
			SS		43	07		
			Lq		43	31		
			Lr		45	40		
			M		49	08		

DATE	STATION	COMPT	PHASE	G h	M m	T s	Δ km	REMARKS
25 Contd	HYDERABAD	N	iP	02	34	14	5150	Initial ground
			PcP		35	34		movement
			PP		36	19		towards North
			iS		41	02		
			PPS		41	26		
			ScS		43	47		
			SS		44	44		
			SSS		45	44		
			Lr		47	58		
			M		52	23		Per. 20 secs μ 63
	CHATRA	Z	iP	02	34	32	5480	
		E	iS		41	38		
	BOKARO	N.E	iP	02	34	34	5490	Initial ground
		E	pP		35	21		movement
			PcP		35	45		towards North
			PP		36	23		and West
			PPP		31	21		
			iS		41	41		
			sS		43	00		
			Lr		48	18		
	KODAIKANAL	E	iP	02	34	45	5580	Initial ground
			PcP		36	00		movement
			PPP		37	39		towards West
			PcS		40	00		
			iS		41	57		
			PPS		42	09		
			ScS		44	31		
			SS		45	27		
			Lq		46	48		
			Lr		49	19		
			M		53	57		Per. 17 secs μ 29.8
	MADRAS	E	iP	02	34	46	5650	
			PcP		35	47		
			PP		36	39		
			PPP		37	41		
			ScP		39	40		
			S		42	02		
			PS		42	15		
			PPS		42	22		
			ScS		44	09		
			SS		45	37		
			SSS		47	24		
			Lr		50	17		
			M		53	16		
	SHILLONG	Z.N.E	iP	02	35	04	5920	Initial ground
		N.E	pP		35	42		movement
			sP		36	05		towards West
			PP		37	10		
			PPP		38	26		Rarefaction
			iS		42	35		
			PS		42	52		
			PPS		43	05		
			sS		43	42		
			ScS		44	48		
			SS		46	14		
			SSS		48	24		
			Lr		51	26		
			M		56	06		Per. 16.2 secs Amp. 4 mm
	COLOMBO	E	P	02	35	08		
			e		41	48		
			L		54	26		
			M	03	00	53		Amp. 4.0 mm
	PORT BLAIR	E	iP	02	36	23		
			e		37	06		
			i		44	45		
25	CHATRA	Z	iPg	04	32	58	10	Feeble
			iSg		32	59		
25	SHILLONG	Z	eP	06	56	37		Slight
	CHATRA	Z	iP	06	57	41		Slight
		E	i		59	36		
25	SHILLONG	Z	eP	07	13	56		Slight
	CHATRA	Z	i	07	14	02		Phases not clear
25	SHILLONG	Z	eP	07	26	48		Slight
	CHATRA	Z	i	07	26	58		Slight, near
	BOMBAY	E	e	07	27	57		Slight
			e		39	18		

				h. m. s.	km	
25	POONA	Z	iP	07 28 12		Feeble.
Contd.			i	28 22		Phases not
			i	28 33		clear
25	HYDERABAD	N	e	08 02 36		
	SHILLONG	Z	eP	08 35 10		Slight
25	DEHRA DUN	N,E	e	09 14 01		Feeble
			e	21 24		
25	POONA	Z	iP	10 27 12		Feeble
25	BOMBAY	N,E	e	10 35 40		Slight
		E	e	37 07		
25	CHATRA	Z	iP			
		E	eP?	11 14 26		Slight
			i	21 05		
	POONA	Z	iP	11 16 33		Feeble
25	CHATRA	Z	iPg	13 35 26	10	Feeble
			iSg	35 27		
25	BOMBAY	N,E	e	18 08 27		Slight
25	CHATRA	Z	iPg	20 15 25		Feeble
			i	15 33		
25	CHATRA	Z	iP	22 03 46		Feeble
			i	04 52		
26	NEW DELHI	N	i	01 18 27		Slight, near
			i	20 15		
			i	20 45		
26	DEHRA DUN	N,E	eP	02 10 40	880	Slight
		N	PP	10 47		
			P*	10 56		
			iS	12 10		
			SSS	12 33		
			Sg/M	12 58		
	CHATRA	Z	iP	02 15 38		Slight
		N,E	i	18 47		
	BOMBAY	N	e	02 15 50		Slight
			e	16 37		
		N,E	e	18 59		
	POONA	Z	iP	02 16 13	1790	Slight
		Z,E	eS	19 12		
	SHILLONG	N,E	eP	02 16 21	2260	Slight
			iS	20 05		
	BOKARO	N,E	e	02 16 22		Slight
			i	18 58		

26 Epc 36½°N, 29°E. Turkey aftershock
= H = 06h 33m 32s (U.S.C.G.S)

	DEHRA DUN	N,E	eP	06 39 35	4270	Slight Other
		N	iS	45 32		phases not
			SS	48 06		clear
			Lr	49 45		
	BOMBAY	N,E	eP	06 41 31	4620	Slight
			PP	43 15		
			PPP	43 37		
			eS	47 48		
			e	48 27		
		E	SS	51 16		
		N,E	Lq	51 31		
			ScS	51 49		
	POONA	Z	iP	06 41 39		Slight, distant
			i	41 59		Phases not clear
	CHATRA	Z	iP	06 42 29		Slight
		E	i	49 37		
	BOKARO	N,E	e	06 42 31	5480	Slight
			iS	49 38		
	SHILLONG	Z,N,E	iP	06 42 59	5970	Slight
		N,E	iS	50 32		
26	CHATRA	Z	iP	17 46 33		Slight
		E	i	47 57		
26	BOMBAY	E	e	17 53 34		Slight
27	DEHRA DUN	N,E	e	00 15 35		Feeble

27 Epc 0°, 121½°E. Near Coast of Celebes
= h = 60 KmCa. = H = 00h 09m 47s (U.S.C.G.S)

	SHILLONG	Z,N,E	eP	00 17 08	4280	Slight
			iS	23 04		
	COLOMBO	E	P	00 17 37		
			e	23 59		
			L	33 --		
			M	37 09		Amp. 0.2 mm
	CHATRA	Z	iP	00 17 43		Slight
		E	i	24 23		
	POONA	Z	iP	00 18 44		Feeble
	BOMBAY	E	eP	00 18 55	5630	Slight
		N,E	eS	26 19		
			e	30 10		
	DEHRA DUN	N,E	e	00 22 40		
27	SHILLONG	Z	eP	07 46 02		Slight
27	SHILLONG	Z	eP	13 40 27		Slight
	CHATRA	Z	iP	13 41 20		Slight
			i	43 02		

28 Epc 7°N, 127°E Off Coast of Mindanao Islands
= H = 01h 23m 40 s (U.S.C.G.S)
Mag 5¾ - 6 (Pasadena)

	SHILLONG	Z,N,E	iP	01 31 05	4140	Initial ground
		N,E	PP	32 43		motion towards
			PPP	33 21		North and West
			iS	36 53		
			PS	37 04		
			PPS	37 15		
			SS	39 38		
			Lq	39 53		
			SSS	40 19		
			ScS	40 56		
			Lr	41 49		
			M	45 12		Per = 17.6 secs
						Amp = 1.3 mm
	CHATRA	Z	iP	01 31 38		
		E	i	38 26		
	BOKARO	N,E	iP	01 31 42		
			i	38 17		
	COLOMBO	E	P	01 32 08	5220	
			S	39 00		
			L	45 52		
			M	49 35		Amp 0.8 mm
	MADRAS	E	iP	01 32 13	5370	Ground movement
			PcP	33 28		East
			PP	34 03		
			PPP	34 59		
			ScP?	37 16		
			iS	39 13		
			ScS	41 41		
			SS	42 35		
			Lq	44 03		
			SSS	44 11		
			Lr	46 29		
	DEHRA DUN	N,E	eP	01 32 21	5850	
		N	PPP	35 56		
			iS	39 48		
			PS	40 19		
			SS	43 44		
			Lr	47 59		
			M	52 19		
	POONA	Z	iP	01 33 02	5900	
			PcP	33 55		
			PP	35 06		
			PPP	36 21		
			eS	40 42		
			PPS	40 55		
			SS	44 23		
			SSS	46 20		
	BOMBAY	N,E	iP	01 33 08		Slight
		E	e	35 20		
			e	36 29		
			e	40 22		
			e	40 34		
			e	43 06		
			e	44 44		
			e	59 44		

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DATE	STATION	COMPT	PHASE	G	h	m	s	Δ km	REMARKS
28	KODAIKANAL	E	iP		02	33	33		Moderate
Contd			e			33	42		Initial ground
			e			34	28		motion towards
			e			37	51		West
			i			39	48		
			e			42	28		
			e			47	30		
			e			53	48		
28	SHILLONG	Z	iP		03	05	45		Slight
28	CHATRA	Z	iP		03	11	03		Slight
		Z N E	i			11	53		
28	Epc 6°S 155°E Solomon Islands								
	H = 10h 36m 41s (U S C G S)								
	SHILLONG	Z N E	iP		10	47	40	7480	Slight
		N E	iS			56	38		
	POONA	Z	iP		10	49	04		Feeble
	BOMBAY	E	eP		10	49	08	9220	Slight
		N E	eS			59	27		
	DEHRA DUN	N E	e		10	49	44		Feeble
			e			59	09		
28	Epc 52½°N 168½°W Fox Islands								
	H = 14h 48m 52s (U S C G S)								
	SHILLONG	Z N E	iP		15	00	40		Slight
	DEHRA DUN	N E	eP		15	01	06		Feeble Phases
		N	e			11	32		not clear
	POONA	Z	iP		15	02	03		Feeble
	BOMBAY	E	e		15	12	37		Slight
28	SHILLONG	Z	iP		18	59	36		Slight
28	SHILLONG	Z	iP		19	34	04		Slight
28	POONA	Z	e		20	16	34		Tremor
28	SHILLONG	Z	iP		21	31	44		Slight
29	SHILLONG	Z	iP		01	57	12		Slight
29	SHILLONG	Z	iP		03	57	25		Slight
29	SHILLONG	Z	eP		04	41	48		Slight
	CHATRA	Z	i		04	41	57		Feeble distant
	POONA	Z	iP		04	43	13		Tremor
	BOMBAY	N E	e		04	54	07		Slight
		E	M		05	30			
29	SHILLONG	Z	iP		19	29	48		Slight
29	Epc 9°S 107°E Off South Coast of Java								
	H = 20h 55m 57s (U S C G S)								

DATE	STATION	COMPT	PHASE	G	h	m	s	Δ km	REMARKS
29	MADRAS	E	eP		21	03	00		Feeble
Contd			e			03	28		
			e			05	34		
	SHILLONG	Z N E	iP		21	03	11	4050	Moderate
		N E	PP			04	31		Initial
			PPP			04	55		ground
			iS			05	58		movement
			SS			10	47		towards
			LQ			11	04		South and
			SSS			11	56		East
			LR			12	02		
			M			21	42		Per 12 5 secs
									Amp i 3 mm
	LOKARO	N E	e		21	03	27		Slight
			e			09	25		
	CHATRA	Z	iP		21	03	35	4570	Slight
		E	iS			09	49		
	POONA	Z	eP		21	03	58	4720	Slight
		E	PP			05	43		
			PPP			06	18		
			eS			10	21		
			LR			15	53		
	BOMBAY	E	eP		21	04	07	4980	Slight
			PP			05	58		
			PPP			06	41		
			eS			10	46		
			SS			12	56		
			M			22	09		
	DEHRA DUN	N E	eP		21	04	45	5320	Slight Other
		N	eS			11	42		phases not
			SS			14	56		clear
			SSS			16	19		
	HYDERABAD	E	M		21	15	14		Per 13 secs
									Amp 2
30	SHILLONG	Z	iP		03	39	54		Slight compression
30	CHATRA	Z	iPg		04	49	42	100	Slight
			iSg			49	56		
30	CHATRA	Z	iP		08	19	14		Feeble
			i			20	33		
	DEHRA DUN	N E	e		08	19	53		Feeble
			e			21	19		
	SHILLONG	Z	iP		08	20	07		Slight Rarefaction
30	SHILLONG	Z	iP		18	11	25		Slight Rarefaction
30	CHATRA	Z	eP		18	12	14		Feeble
			i			13	43		
	SHILLONG	Z	iP		18	12	26		Slight near Rarefaction
30	SHILLONG	Z	Pg		22	24	04	70	Slight
			Sg			24	08		

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
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Director General of Observatories

FEB 14 1961

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Instruments and their Constants

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFI-CATION	DAMPING RATIO	PAPER SPEED mm/min
OMBAY	Milne-Shaw	N	12	350	23:1	16
	Milne-Shaw	E	12	350	12:1	8
	Sprengnether	E	To=Tg=7	-	-	30
OKARO	Milne-Shaw	N	12	250	20:1	16
	Milne-Shaw	E	12	250	20:1	16
	Wood-Anderson	E	0.8	960	h= 0.8	60
	Wood-Anderson	N	0.8	1000	h= 0.8	60
OLOMBO	Milne-Shaw	E	11.9	250	20:1	--
ALCUTTA	Milne-Shaw	E	12	250	20:1	8
	Wood-Anderson	N	2	870	Critical	30
	Omori-Ewing	N	16	32	-	25.4
	Omori-Ewing	E	21	30	-	25.4
HATRA	Milne-Shaw	E	12	250	20:1	16
	Milne-Shaw	N	10	150	20:1	16
	Wood-Anderson	E	1	1000	30:1	60
	Wood-Anderson	N	1	1000	40:1	60
	Benioff Short Period	Z	To= .72 Tg= .45	-	Critical	60
	Wenner Accelleregraph	ENZ	-	-	-	--
EHRA DUN	Wood-Anderson	N	0.8	950	Critical	60
	Wood-Anderson	E	0.8	850	Critical	60
	Milne-Shaw	N	12	250	20:1	8
	Milne-Shaw	E	12	250	20:1	8
HYDERABAD	Milne-Shaw	E	12	250	20:1	8
	Milne-Shaw	N	12	250	20:1	8
KODAIKANAL	Milne-Shaw	E	10	250	20:1	8
MADRAS	Sprengnether	E	To=Tg= 7.4	-	-	30
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	30
	Wood-Anderson	E	4	1000	20:1	16
	Milne-Shaw	N	12	280	20:1	8
PORT BLAIR	Wood-Anderson	N	2	1000	20:1	30
SHILLONG	Wood-Anderson	N	0.8	1000	h = 0.8	30
	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Milne-Shaw	N	12	250	20:1	8
	Benioff	Z	To = 1.0 Tg = 0.18	-	-	60
	Sprengnether Wenner Accelleregraph	E	To=Tg=6.8	-	-	30
		ENZ	-	-	-	--
TOCKLAI	Wood-Anderson	E	0.8	970	h = 0.8	60
VIZIANAGRAM	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Wood-Anderson	N	2	1000	20:1	30

List of Seismograph station

Station	Latitude	Longitude	Height a.s.l (Metres)	Lithographic foundation
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
BOKARO	23°50'N	85°48'E	-	Rock
COLOMBO	06°54'N	79°52'E	7	Beach Sand
CALCUTTA	22°32'N	88°22'E	(1) 7(Milne-Shaw)	Alluvium
			(2) 6(Omori-Ewing)	
CHATRA	26°50'N	87°10'E	161	Sand Stone
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
NEW DELHI	28°35'N	77°12'E	207	Massive Quartzite
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	-

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km.	REMARKS
July 1957								
01	SHILLONG	Z	iP	06	30	05		Slight, distant. Rarefaction.
01	TOCKLAI	Z	iP	09	31	02		First movement West.
01	DEHRA DUN	N,E	e	11	45	09		Feeble.
			e		46	42		
	SHILLOOG	Z	eP	11	47	11		Slight, distant. Rarefaction.
01	Epc: 24°N, 93½°E, H = 19h 30m 30s G.M.T. h =100 kmCa (Shillong) 25°N, 94°E. H = 19h 30m 16s G.M.T., India Burma Border (U.S.C.G.S) Felt widely in Assam, Manipur, Tripura, East Pakistan and parts of West Bengal. Minor property damage reported from Silchar (Assam). (Press Report)							
Port Blair	N		iP	19	30	18	1410	Moderate, deep. Absolute time uncertain due to congestion of lines. Probable correction + 3 minutes.
			PP		30	28		
			Lq		32	31		
			iS		32	38		
SHILLONG	Z,N,E		iP	19	31	00	200	Moderate, Compression. First movement North and West. Felt locally. Due to large amplitude other phases could not be traced.
	E		iS		31	23		
TOCKLAI	E		iP	19	31	02		Moderate. First movement West. Due to large amplitudes other phases could not be traced.
CALCUTTA	E		iP	19	31	40	390	Moderate. First movement West, felt locally.
	N		eP		31	42		
	E		iP*		31	47		
			iPg		31	55		
			iS		32	22		
BOKARO	N,E		iP	19	32	08	600	Moderate. First movement South & West
	E		P*		32	19		
			Pg		32	34		
			Lq		32	56		
	N		iS		33	11		
	E		S*		33	28		
	N		Sg		33	43		
VIZIANAGRAM	N		iP	19	33	07	1110	Moderate. First movement North.
			i		33	13		
			i		33	36		
			iS		35	01		
DEHRA DUN	N,E		eP	19	33	50	1610	Moderate.
	N		PP		34	04		
			PPP		34	09		
			Lq		36	22		
			iS		36	33		
			SS		36	49		
			SSS		37	04		
			Lr		37	11		
			Sg/M		38	22		
HYDERABAD	E		iP	19	34	05	1550	Moderate. First movement East.
			PP		34	10		
			PPP		34	20		
			Lq		36	34		
			iS		36	40		
			Lr		37	16		
			M		38	56		Per. ±11 secs μ ±26
COLOMBO	E		P	19	34	03	2390	
			S		37	58		
			L		43	--		
			M		44	08		Amp. ±3.0 mm.

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
July 1957								
01 Contd.	MADRAS	E	iP	19	34	16	1820	Moderate. First movement East.
			PP		34	29		
			PPP		34	38		
			iS		37	12		
			SS		37	31		
			Lr		37	56		
			PcP		39	01		
			M		39	12		
			ScP		42	28		
			ScS		45	58		
	POONA	Z	iP	19	34	47	2040	Moderate, compression. First movement South and West.
		N	PP		35	04		
			PPP		35	18		
		N,E	iS		38	10		
		N	Lq		38	15		
			SS		38	34		
			SSS		38	54		
			Lr		39	02		
			M		40	34		
	BOMBAY	N,E	iP	19	34	57	2120	Moderate. Microseisms present.
		N	PP		35	08		
		N,E	PPP		35	18		
		N	i		35	35		
		N,E	iS		38	27		
			SS		38	41		
			SSS		38	59		
		N	Lr		39	13		
			M		40	42		Per. ±7 secs μ ±34
		E	M		41	14		Per. ±5 secs μ ±21
	KODAIKANAL	E	iP	19	35	14	2360	Moderate. First movement East.
			S		39	06		
			i		39	12		
01	SHILLONG	Z,N,E	iP	19	47	25		Slight. Compression. Felt locally.
01	SHILLONG	Z	eP	19	57	02	210	Slight
			eS		57	27		
01	SHILLONG	Z	eP	20	13	18	160	Slight.
			Sg		13	38		
01	SHILLONG	Z	eP	20	44	01		Slight, local.
01	SHILLONG	Z,N,E	iP	22	08	25	210	Slight. Compression
		N,E	iS		08	50		Felt locally.
01	TOCKLAI	E	eP	22	09	24	260	Slight
			iS		09	53		
01	DEHRA DUN	N,E	e	22	14	00		Tremor
02	Epc: 37°N, 52½°E. Magnitude = 6.8 (Shillong) 36°N, 53°E. Northern Iran. H = 00h 42m 23s. Magnitude =7¼-7½ (Pas). Approximately 1500 dead and extensive property damage throughout Northern Iran (U.S.C.G.S).							H=00h 42m 21s.G.M.T.
DEHRA DUN		N,E	eP	00	47	18	2440	Moderate
		N	PP		47	42		
			PPP		47	56		
			iS		51	16		
			Lq		51	48		
			SS		52	13		
			SSS		52	29		
			Lr		53	03		
			M		54	41		Per. ±12 secs μ ±163
BOMBAY		N	iP	00	47	47	2880	Moderate. Monsoon type microseisms present throughout.
			PP		48	20		
		N,E	PPP		49	34		
		E	i		49	08		
		N	i		49	20		
		N,E	iS		52	15		
		E	i		52	33		
		N	e		52	38		
		N,E	Lq		53	05		
		E	SS		53	18		
			SSS		53	33		
			Lr		54	20		
		N	M		57	49		Per. ±23 secs μ ±131
		E	M		59	30		Per. ±15 secs μ ±112.

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
July 1957						
02 Contd.	POONA	Z	iP	00 47 57	2880	Moderate. First movement South and East.
	18 00 52 25	N,E	PP	48 35		
			Lq	53 15		
		E	SS	53 36		
			PcS	54 42		
		E,N	M	56 34		
		E	ScS	58 31		
	HYDERABAD	E	iP	00 48 28	3320	Great. First movement East
			PP	49 19		
			PPP	49 46		
			PcP	51 13		
			iS	53 25		
			SS	55 24		
			Lr	56 49		
			M	59 27		Per.≥18 secs μ ≥152
	BOKARO	N,E	iP	00 48 44	3540	Moderate. First movement South and East.
		N	PP	49 48		
			PPP	50 06		
			iS	53 55		
			Lq	55 34		
			Lr	57 29		
			M	01 00 01		Per.≥15 secs μ ≥89
	VIZIANAGRAM	N	iP	00 48 56		First movement South.
	MADRAS	E	iP	00 49 07	3850	Great. First movement East.
			PP	50 25		
			PPP	50 44		
			PcP	51 26		
			eS	54 36		
			ScP	55 03		
			SS	57 00		
			Lq	57 03		
			Lr	58 45		
			M	01 01 24		
	KODAIKANAL	E	iP	00 49 16	4230	Moderate. First movement East
			PP	50 49		
			PPP	51 16		
			S	55 10		
			SS	57 49		
			Lq	58 04		
			SSS	58 26		
			Lr	59 56		
			M	01 03 08		Per.≥15 secs μ ≥46
	CALCUTTA	N	eP	00 49 16	3890	Moderate
			PcP	51 59		
			iS	54 48		
			ScP	55 37		
			SS	56 55		
			SSS	57 21		
			Lr	58 27		
			ScS	59 29		
	SHILLONG	Z,N,E	iP	00 49 17	3890	Moderate, compression. First movement South and East.
		N,E	i	49 43		
			PP	50 32		
			PPP	50 58		
			iS	54 49		
			i	55 35		
			Lq/SS	57 57		
			SSS	58 23		
			Lr	59 38		
			M	01 02 38		Per.≥13 secs μ ≥54
	TOCKLAI	E	iP	00 49 32		Moderate. First movement East.
			i	50 14		
	PORT BLAIR	N	iP	00 50 29	4710	Moderate
			eS	56 51		
02	SHILLONG	Z,E	iP	01 06 47	210	Slight. Felt locally
		E	iS	07 12		
	TOCKLAI	E	eP	01 06 52	160	Slight
			iS	07 12		
02	COLOMBO	E	P	03 34 35		
			L	38 50		
			M	40 30		Amp≥0.8 mm
02	COLOMBO	E	P	06 51 18		
			PP	52 50		
			S	57 22		
			L	07 03 02		
			M	07 23		Amp.≥6.9 mm

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
July 1957						
02	KODAIKANAL	E	e?	07 33 43		Tremor
02	MADRAS	E	eP	07 36 11	2230	Slight
			PP	36 30		
			PPP	36 40		
			eS?	39 52		
			Lq	40 03		
			SS	40 24		
			SSS	40 41		
			Lr	41 03		
			M	42 45		
	POONA	Z	eP	07 36 27		Feeble
		N	i	40 16		
	BOMBAY	N	eP	07 40 17		Slight
		E	iP			
	HYDERABAD	E,N	e	07 40 34		
		N	M	41 52		Per.≥12 secs μ ≥ 3
		E	M	42 00		Per.≥12 secs μ ≥ 3
02	SHILLONG	Z	iP	07 50 23		Slight, distant Compression
02	SHILLONG	Z	eP	08 18 19		Slight, local.
02	SHILLONG	Z	eP	09 22 33	230	Slight
		E	iS	23 00		
02	DEHRA DUN	N,E	e	12 13 58		Tremor
02	SHILLONG	Z,E	eP	14 43 04	190	Slight
		E	iS	43 27		
			SS	43 39		
			SSS	43 47		
	TOCKLAI	E	eP	14 43 13	280	
			PPP	43 28		
			Lr	43 41		
			iS	43 45		
			SS	43 57		
02	SHILLONG	Z,E	eP	14 45 27	210	Slight
		E	PP	45 35		
			PPP	45 40		
			iS	45 51		
			SS	46 01		
			SSS	46 11		
	TOCKLAI	E	iP	14 45 35	270	
			PP	45 41		
			PPP	45 47		
			S	46 05		
			Sg/M	46 09		
			SS	46 17		
			SSS	46 26		
	DEHRA DUN	N,E	e	14 48 21		Feeble
			e	51 01		
02	SHILLONG	Z	iP	18 12 49	200	Slight
			Sg	13 16		
02	TOCKLAI	E	e	22 28 52		
03	POONA	Z	i	05 41 25		Tremor
03	SHILLONG	Z	eP	06 15 23		Slight, distant, rarefaction.
03	SHILLONG	Z	iP	07 31 05		Slight, distant Compression.
03	SHILLONG	Z	iPg	09 02 51	60	Slight, rarefaction
			Sg	02 58		
03	SHILLONG	Z	eP	12 21 38		Slight, compression.
03	SHILLONG	Z	iP	12 35 51		Slight, distant rarefaction
	DEHRA DUN	N,E	e	12 36 24		Feeble
			e	46 11		
	POONA	Z	iP	12 37 25		Tremor
03	HYDERABAD	E,N	e	12 47 45		
		E	M	13 18 30		Per.≥15 secs μ ≥ 4
		N	M	20 08		Per.≥15 secs μ ≥ 6

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
July 1957						
03	SHILLONG	Z	ePg	18 13 03	60	Slight
			Sg	13 10		
03	SHILLONG	Z	eP	21 28 17	100	Slight
			eS	28 31		
03	SHILLONG	Z	eP	22 27 58		Slight, distant Compression
03	SHILLONG	Z	eP	22 44 43		Slight, distant Rarefaction
04	SHILLONG	Z	iP	01 02 35		Slight, rarefaction
04	DEHRA DUN	N,E	i	02 53 58		Tremor
04	SHILLONG	Z	iP	07 45 44		Slight, rarefaction
04	Epc: 4°S, 102°E, Near South Coast of Sumatra. H = 08h 29m 01s h = About 100 kms (U.S.C.G.S)					
	COLOMBO	E	P	08 34 21	2460	
			S	38 21		
			L	41 59		
			M	43 53		Amp. = 0.4 mm
	SHILLONG	Z	iP	08 35 14		Slight, compression
	POONA	Z	iP	08 35 57		Tremor
	DEHRA DUN	N,E	e	08 36 37		Feeble
04	SHILLONG	Z	iP	08 53 03		Slight, compression
04	SHILLONG	Z	eP	14 22 27		Slight, very distant
04	SHILLONG	Z	eP	14 45 28		Slight, very distant
04	SHILLONG	Z	eP	19 28 28		Slight, very distant
04	SHILLONG	Z	eP	20 33 16		Slight, distant
05	SHILLONG	Z	iP	02 56 22		Slight, very distant
05	SHILLONG	Z	eP	05 19 39		Slignt, near
05	SHILLONG	Z	eP	05 34 47		Slight, near.
05	SHILLONG	Z	eP	08 41 12		Slight, distant
05	SHILLONG	Z	eP	14 43 59		Slight, distant
05	SHILLONG	Z	eP	15 43 10		Slight, distant
05	SHILLONG	Z	iP	18 05 50		Slight,
			i	06 36		rarefaction
05	SHILLONG	Z	eP	20 28 25	200	Slight
			iS	28 48		
05	SHILLONG	Z	eP	20 48 57		Slight, near
06	SHILLONG	Z	eP	00 33 28		Slight, distant
06	SHILLONG	Z	iP	03 05 55		Slight, Compression
06	SHILLONG	Z	iP	05 41 13		Slight, compression.
06	SHILLONG	Z	eP	18 33 58		Slight, distant
06	SHILLONG	Z	eP	23 12 19		Slight
07	SHILLONG	Z	eP	00 21 05	290	Feeble
			iS	21 37		
07	SHILLONG	Z	iP	00 31 52		Slight, very distant
07	SHILLONG	Z	eP	06 07 07		Slight, distant
07	SHILLONG	Z	ePg	12 31 09	40	Slight
			Sg	31 14		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
July 1957						
07	SHILLONG	Z	eP	15 48 35		Slight, distant
07	Epc: 6½°S, 156°E. Solomon Islands H = 16h 11m 15s (U.S.C.G.S) Magnitude = 6¾ (Pas).					
	SHILLONG	Z, E	iP	16 22 28		Slight, compression
	DEHRA DUN	N, E	e	16 23 39		Tremor
			e	34 16		
	POONA	Z	iP	16 23 50		Tremor
			i	24 01		
07	SHILLONG	Z	eP	18 19 43		Slight
08	Epc: Manipur-Burma Border H = 00h 33m 18s (Shillong) Felt at Shillong, Imphal, Silchar, Gauhati, Golaghat and Karimganj in Assam. (Press Report)					
	SHILLONG	Z, N, E	iP	00 33 48	190	Slight. Compression. First movement N & W Felt locally.
		N, E	iS	34 10		
	TOCKLAI	E	iP	00 34 47		Moderate. First movement East.
	BOKARO	N, E	iP	00 34 57	500	Slight, first movement N & W.
			P*	35 06		
			Pg	35 18		
			S*	36 02		
			Sg	36 15		
	DEHRA DUN	N, E	e	00 36 43		Feeble, phases not clear
			i	39 18		
			i	39 32		
			i	39 46		
	POONA	Z	iP	00 37 50	2000	Slight
08	SHILLONG	Z	eP	01 05 13		Slight
08	SHILLONG	Z	eP	02 23 26	190	Slight
			iS	23 49		
09	SHILLONG	Z	iP	06 22 19		Slight. Compression
09	Epc: 6°S, 104°E. Near South Coast of Sumatra H=09h 58m 09s G.M.T., h= about 60 kms (U.S.C.G.S)					
	HYDERABAD	N	eP	10 04 03		Moderate
			e	05 57		
			e	10 14		
			e	13 09		
			e	13 30		
			e	14 15		
			e	15 36		
			M	18 15		Per. = 24 secs μ = 13
	COLOMBO	E	P	10 04 04	2950	
			S	08 37		
			L	12 21		
			M	14 04		Amp. = 0.9 mm
	KODAIKANAL	E	e?	10 04 34		Tremor
	SHILLONG	Z	iP	10 04 48		Slight, compression.
	BOKARO	N, E	i	10 04 57		Slight, phases not identifiable.
	POONA	Z	iP	10 05 32		Tremor
	CALCUTTA	E	e	10 05 34		Slight, distant
			i	16 39		
	DEHRA DUN	N, E	eP	10 06 17	4830	Slight
		N	PPP	09 00		
			iS	12 46		
			PPS	13 11		
			SS	16 04		
			M	22 21		
	BOMBAY	E	e	10 11 41		Very slight. No time mark in Sprengnether Siesmogram.
		N, E	e	15 07		
09	SHILLONG	Z	eP	14 49 20	720	Slight
		E	iS	50 35		
09	SHILLONG	Z	eP	14 59 54		Slight, near.

DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
JULY 1957						
09	SHILLONG	Z	eP	21 05 14		Slight
10	TOCKLAI	E	e	03 53 28		Near
			e	53 35		
			e	53 41		
			e	53 47		
			e	53 54		
	SHILLONG	Z,E	iP	03 53 29		Slight,near.
10	DEHRA DUN	N,E	e	07 25 17		Tremor
10	Epc: 8°N. 82½°W. Near Coast of Panama. H = 09h 04m 08s (U.S.C.G.S) Magnitude = 6¼-6¾ (Pas), 6¾-7 (Berkeley)					
	POONA	Z	iPKP	09 23 46		Tremor
			i	24 03		
	SHILLONG	Z	ePKP	09 23 51		Slight,distant compression
	TOCKLAI	E	e	09 23 55		Distant
	BOKARO	N,E	iPKP	09 23 56		Slight.Phases not clear
	DEHRA DUN	N,E	e	09 27 21		Feeble,phases not clear.
	HYDERABAD	E	M	10 24 25		Per.=23 secs μ = 4
		N	M	26 31		Per.=24 secs μ =10
	COLOMBO	E	L	10 31 --		Trace overlapping
			M	39 00		Amp.=0.4 mm
	BOMBAY	Feeble surface waves around 10h 30m on Milne-Shaw (E-W) recorded				
10	SHILLONG	Z	eP	13 21 30		Feeble,distant
10	SHILLONG	Z	eP	13 31 09	110	Slight
			Sg	31 22		
10	SHILLONG	Z	eP	15 02 14	110	Feeble.
			Sg	02 27		
10	SHILLONG	Z	iP	18 11 48		Feeble,distant.
10	SHILLONG	Z	eP	19 25 17		Slight
11	DEHRA DUN	N,E	e	00 00 53		Tremor
11	SHILLONG	Z	eP	01 24 22		Slight
			i	24 41		
11	DEHRA DUN	N,E	eP	17 16 33	850	Slight,other
		N	iS	18 01		phases not clear
			SS	18 12		
12	SHILLONG	Z	iP	07 14 20	800	Slight
			iS	15 43		
12	DEHRA DUN	N,E	e	09 12 59		Tremor
12	SHILLONG	Z	iP	15 26 50		Slight,compression, near.
12	DEHRA DUN	N,E	e	16 27 04		Tremor
	SHILLONG	Z	eP	15 27 59		Slight,distant
12	SHILLONG	Z	iP	17 46 38		Feeble,local compression.
12	SHILLONG	Z	iP	20 30 31		Slight, near Compression
12	SHILLONG	Z	iP	21 06 46		Slight, compression
12	SHILLONG	Z	eP	22 09 10		Feeble,distant
12	SHILLONG	Z	eP	22 18 47		Slight, compression
13	SHILLONG	Z	eP	00 58 02		Feeble,local.
13	SHILLONG	Z	iP	01 11 15		Slight,distant Compression.
13	SHILLONG	Z	eP	09 01 19		Slight,distant

DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
JULY 1957						
13	SHILLONG	Z	iP	21 20 41	310	Slight, compression.
			iS	21 16		
14	SHILLONG	Z	iP	02 36 01		Slight, compression.
14	KODAIKANAL	E	e?	05 42 32		Tremor
14	Epc: 27½°S, 177°W. Tonga Islands Region. H = 06h 23m 50s (U.S.C.G.S) Magnitude = 7-7¼ (Pas), 6¾ (Berk).					
	SHILLONG	Z,N,E	iP	06 37 30		Slight,distant
		N,E	i	41 42		rarefaction.
			i	48 53		
	TOCKLAI	E	e	06 38 26		
	DEHRA DUN	N,E	e	06 42 05		Slight.Phases
			e	50 45		not clear
			i	58 33		
	BOMBAY	E	e	06 43 10		Slight.
			e	47 01		Microseism
		N,E	e	54 09		present.
		E	i	55 25		
		N	e	55 30		
	TOCKLAI	E	e	06 47 45		
	BOKARO	N,E	e	06 48 13		Slight,phases
			i	49 45		not clear.
			i	52 43		
	HYDERABAD	N	e	06 49 24		
		E	e	49 27		
		N	M	07 08 42		Per.=26 secs μ =13
14	SHILLONG	Z	iP	07 04 57		Slight,distant Compression
14	KODAIKANAL	E	e?	08 01 05		Tremor
14	Epc: 30°S, 177°W. Kermadec Islands. H = 08h 40m 45s G.M.T.(U.S.C.G.S) Magnitude = 6¾ (Pas), 7 (Berkeley).					
	SHILLONG	Z	eP	08 24 47		Slight,distant
	COLOMBO	E	e(PP)	08 29 36		
			e	44 26		
			L	09 04 21		
			M	09 36		Amp.=0.9 mm
	HYDERABAD	N,E	e	08 39 51		
		N	M	09 04 39		Per.=22 secs μ =14
		E	M	05 45		Per.=24 secs μ =10
	BOMBAY	E	e	08 40 24		Slight.Phases
			e	42 00		unidentifiable
			M	09 15 --		due to
		N	M	17 --		microseisms.
	DEHRA DUN	N,E	e	08 40 26		Feeble
14	SHILLONG	Z	eP	09 25 12		Slight,distant
14	SHILLONG	Z	eP	10 52 14		Slight,near
14	SHILLONG	Z	eP	12 41 45		Slight,near
14	SHILLONG	Z	eP	17 18 59	130	Slight
			S	19 16		
15	SHILLONG	Z	eP	04 58 46		Slight,near
15	SHILLONG	Z	eP	08 49 01	280	Slight
			S	49 32		
15	SHILLONG	Z	eP	09 25 15		Slight,near Compression
15	SHILLONG	Z	eP	10 24 07		Slight,local.
15	Epc: 29°N. 70°E. West Pakistan H=23h 08m 08s (USCGS)					
	DEHRA DUN	N,E	eP	23 10 12		Slight
		N	e	11 53		
			i	12 10		
			e	12 21		
			e	12 29		
			e	12 33		
			M	13 22		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
July 1957								
15 Contd.	VIZIANAGRAM	N	eP	23	11	11		Slight
			e		15	55		
			e		16	07		
	SHILLONG	Z,N,E	iP	23	12	45		Slight, compression
		N,E	i		19	08		
	CALCUTTA	N,E	e	23	13	19		Moderate
		N	e		13	26		
		N,E	iS		15	13		
			i		15	27		
	BOMBAY	N,E	e	23	13	31		Slight, deep, phases unidentifiable due to microseisms.
		E	e		15	30		
			e		17	00		
	HYDERABAD	N	e	23	13	58		Slight
			e		14	58		
			e		15	34		Per. ±9 secs μ ±9
	TOCKLAI	E	e	23	14	11		
	BOKARO	N,E	e	23	14	32		Slight
			e		14	52		
			e		15	11		
			e		15	50		
			i		16	03		
			e		16	32		
			e		16	53		
	MADRAS	E	e	23	17	32		Moderate. Phases not identifiable due to strong microseism.
			e		21	12		
			e		22	04		
15	TOCKLAI	E	e	23	21	57		
15	DEHRA DUN	N,E	e	23	39	16		Tremor
16	DEHRA DUN	N,E	e	02	15	32		Tremor
16	SHILLONG	Z	iP	06	11	55		Slight, distant, rarefaction.
16	SHILLONG	Z	iP	11	40	21		Slight, near, rarefaction.
16	SHILLONG	Z	iP	13	09	32		Slight, near, compression.
16	SHILLONG	Z	iP	17	04	04		Slight, distant Compression
16	SHILLONG	Z	iP	19	35	37		Slight, distant Compression
16	DEHRA DUN	N,E	e	20	20	32		Tremor
	SHILLONG	Z	iP	20	25	01		Slight, distant Compression
16	SHILLONG	Z	eP	21	59	47		Slight, distant.
17	DEHRA DUN	N,E	e	08	44	37		Tremor
17	SHILLONG	Z	eP	09	05	55		Feeble, distant.
17	Epc: 11°S, 167°E. Santa Cruz Islands. H. = 11h 10m 10s. (U.S.C.G.S) Magnitude = 6¼-6½ (Pas), 6½ (Berkeley).							
	TOCKLAI	E	iP	11	22	20		Slight. First movement West.
	SHILLONG	Z,N,E	iP	11	22	29	9290	Slight,
		N,E	PcP		22	40		Compression.
			pP		23	17		First movement
			sP		23	46		North and West
			PP		25	30		Probable depth
			PPP		27	20		about 200 Kms.
			iS		32	30		
			SKS		32	41		
			PS		33	12		
			PPS		33	32		
			sS		34	03		
			SS		37	37		
			SSS		40	57		
			Lq		43	37		
			Lr		47	16		
			M		52	44		
	BOKARO	N,E	iP	11	22	53	9110	Slight. Other
			iS		33	07		phases doubtful

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
July 1957								
17 Contd.	COLOMBO	E	P	11	23	03	9690	
			S		33	42		
			L		56	35		
			M	12	00	35		Amp. ±0.4 mm
	DEHRA DUN	N,E	e	11	23	32		Feeble. Phases not clear
			i		33	57		
	POONA	Z	iP	11	23	37		Feeble
	BOMBAY	E	e	11	27	24		Slight, deep. Microseisms present in the record
			i		27	47		
			i		32	29		
			i		34	14		
		N,E	i		35	00		
	KODAIKANAL	E	e?	11	33	33		Tremor
	HYDERABAD	E	e	11	33	39		
		N	e		34	33		
		E	M		36	30		Per. ±9 secs μ ±2
		N	M		38	54		Per. ±10 secs μ ±3
17	SHILLONG	Z	eP	12	35	18		Slight, distant.
18	SHILLONG	Z	eP	01	26	34		Slight, distant.
18	SHILLONG	Z	iP	01	31	34		Slight, distant Compression.
18	SHILLONG	Z	eP	11	21	15		Slight, distant.
18	Epc: 30°N, 139°E. South of Honsu, Japan, h. = about 400 kms - H. = 12h 06m 39s. (U.S.C.G.S).							
	SHILLONG	Z	eP	12	13	54		Slight, distant,
	TOCKLAI	E	e	12	14	39		
	DEHRA DUN	N,E	e	12	15	17		Tremor
18	SHILLONG	Z	iP	13	34	49		Slight, distant. Compression
18	SHILLONG	Z	ePg	17	26	59	110	Feeble
			eSg		27	11		
18	SHILLONG	Z	eP	19	04	04		Slight, distant.
18	SHILLONG	Z	eP	19	58	14		Slight, distant. Compression.
19	DEHRA DUN	N,E	e	03	26	30		Feeble. Phases not clear
			i		28	09		
			i		29	08		
	SHILLONG	Z	iP	03	29	06		Slight, distant, rarefaction.
19	SHILLONG	Z	eP	11	39	25		Slight, distant.
19	SHILLONG	Z	eP	12	10	33		Slight
19	TOCKLAI	E	e	12	56	28		
19	Epc: 25°N, 122½°E. Near North Coast of Formosa. Felt: Taipeh. H. = 13h 02m 05s G.M.T. (U.S.C.G.S)							
	SHILLONG	Z,N,E	iP	13	07	54	3000	Slight,
		N,E	pP		08	20		rarefaction.
			sP		08	30		
			PP		08	37		
			PPP		08	53		
			iS		12	31		
			sS		13	23		
	DEHRA DUN	N,E	eP	13	09	43	4230	Slight. Other
		N	iS		15	37		phases not
			SS		18	15		clear.
			SSS		18	41		
	POONA	Z	iP	13	10	30		Very feeble.
	BOMBAY	E	e	13	12	27		Feeble. Strong
			e		13	00		microseism.
			e		21	00		present
19	DEHRADUN	N,E	e	14	11	18		Feeble, phases
			i		11	42		not clear
19	SHILLONG	Z	eP	20	35	47		Slight, distant.
19	SHILLONG	Z	eP	21	46	28		Slight, distant.

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DATE July 1957	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
20	SHILLONG	Z	ePg	08 46 38	120	Slight,local
			Sg	46 52		
20	SHILLONG	Z	eP	11 22 19		Slight,distant
20	DEHRA DUN	N,E	e	13 17 40		Tremor
20	SHILLONG	Z	iP	14 16 42		Slight,distant. Compression.
22	SHILLONG	Z	eP	03 53 53		Slight,distant.
22	DEHRA DUN	N,E	e	05 29 40		Feeble,phases
			i	30 07		not clear
	SHILLONG	Z	eP	05 30 43		Slight, near.
22	SHILLONG	Z	eP	10 23 31		Slight,distant
22	SHILLONG	Z	iP	14 09 32		Slight,distant Compression.
22	SHILLONG	Z	eP	21 22 51		Slight,distant
22	SHILLONG	Z	eP	22 47 17		Slight, near.
23	Epc: 52°N, 177°W, Adreanof Islands, Aleutian Islands. H = 00h 45m 12s (U.S.C.G.S). Magnitude: 6¼-6¾(Pas).					
	SHILLONG	Z,E	iP	00 56 31	7990	Slight,distant.
		N,E	iS	01 05 51		Compression.
			SKS	06 04		
			SS	06 52		
	DEHRA DUN	N,E	eP	00 56 55	8690	Slight
		N	iS	01 06 50		
			PS	07 44		
			SS	12 08		
			SSS	15 54		
			Lq	19 01		
			M	19 46		
	BOKARO	N,E	iP	00 57 00	8730	Moderate. First
		N	PcP	57 11		movement South
			i	01 06 43		and West.Probably
			iS	06 57		deep.
			sS?	09 48		
	HYDERABAD	E	iP	00 57 52	9550	Moderate. First
			iS	01 08 26		movement East.
			PS	09 29		
			PPS	09 59		
			SS	14 20		
			SSS	17 41		
			Lr	25 44		
			M	33 05		Per.±18 secs μ = 9
	POONA	Z	iP	00 57 59	9960	Moderate. First
		N	PP	01 01 24		movement South
			PPP	03 27		and West.
			SKS_1	08 21		
			SKS_2	08 37		
		N,E	iS	08 49		
		N	PS	09 56		
			SS	14 30		
			SSS	18 06		
			$PKKS_1$	18 37		
			Lq	21 23		
			Lr	26 15		
			M	31 49		
			Mn	38 --		Per.±20 secs μ = 21
	TOCKLAI	E	e	00 58 20		
	BOMBAY	N	e	01 02 04		
		N,E	e	08 39		
		N	e	08 57		
			M	40 20		Per.±19 secs μ = 6
		E	M	40 36		Per.±17 secs μ = 9
	KODAIKANAL	E	e?	01 36 15		Tremor
23	COLOMBO	E	P	02 09 13		
			S	19 31		
			L	40 11		
			M	47 06		Amp.±0.3 mm
23	SHILLONG	Z	eP	07 20 02	250	Slight, near.
			S	20 30		
23	SHILLONG	Z	iP	11 49 51		Slight, near. Rarefaction.

DATE July 1957	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
23	SHILLONG	Z	eP	12 15 06		Slight,distant.
23	DEHRA DUN	N,E	e	19 36 22		Feeble,phases
			i	38 22		not clear.
	BOKARO	N,E	e	19 36 31		Slight. Phases
		N	i	38 38		poorly
			i	39 34		developed.
	SHILLONG	Z	eP	19 36 54		Slight,distant. Compression
	BOMBAY	E	e	19 43 16		Feeble, near.
		N	e	43 39		
		E	e	43 48		
		N	e	44 50		
		N,E	e	48 29		
24	DEHRA DUN	N,E	e	01 17 45		Feeble,phases
			i	28 25		not clear.
24	BOMBAY	E	e	02 17 14		Feeble
		N	e	17 20		
		E	M	03 12 --		
	POONA	Z	iP	02 17 14		Slight,phases
			i	17 27		not clear.
24	TOCKLAI	E	e	05 17 30		
24	SHILLONG	Z	eP	06 08 02		Slight, local.
24	SHILLONG	Z	eP	06 22 35		Slight, local.
24	SHILLONG	Z	eP	10 49 55		Slight,distant.
24	DEHRA DUN	N,E	e	11 07 18		Feeble,phases
						not clear.
	SHILLONG	Z	iP	11 07 29		Slight,distant, rarefaction.
24	COLOMBO	E	eS	11 26 29		
			e	55 06		
			M	59 06		Amp.±0.4 mm
	BOMBAY	E	e(S)	11 27 11		
			M	12 04 --		
24	SHILLONG	Z	eP	14 49 44		Slight,distant.
24	SHILLONG	Z	eP	16 57 59		Slight,distant
24	SHILLONG	Z	iP	17 04 12	270	Slight,
			S	04 43		rarefaction.
24	SHILLONG	Z	eP	19 46 51		Slight,distant
25	SHILLONG	Z	eP	03 36 02		Slight,distant.
25	SHILLONG	Z	eP	05 17 11	230	Slight
			S	17 38		
25	Epc: 51°N, 177°W, Adreanof Islands, Aleutian Islands. H.= 07h 42m 25s (U.S.C.G.S) Magnitude = 6¾ (Berk)					
	SHILLONG	Z,E	iP	07 53 44	7930	Slight.
		N,E	iS	08 03 02		Compression.
	TOCKLAI	E	e	07 53 57		
	DEHRA DUN	N,E	eP	07 54 14	8630	Feeble.Phases
			iS	08 04 06		not clear.
	POONA	Z	iP	07 55 13	10060	Slight
		N	PP	58 39		
			SKS_1	08 05 33		
			iS	06 07		
			SS	12 10		
			SSP	12 28		
			Lq	20 12		
			SKKKS	23 27		
			M	31 42		
	BOMBAY	E	eS	08 06 00		Slight
		N	e	06 07		
			M	37 --		
		E	M	38 --		
	HYDERABAD	E	M	08 30 24		Per.±17 secs μ = 4
		N	M	31 20		Per.±18 secs μ = 8

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
July 1957								
25	PORT BLAIR	N	iPg	15	24	05	40	Slight, felt locally
			eSg		24	10		
25	SHILLONG	Z	iP	18	39	48		Slight, distant compression
25	SHILLONG	Z	iP	21	06	42		Slight, near rarefaction.
25	SHILLONG	Z	iP	22	22	18		Slight, distant. Compression
25	SHILLONG	Z	eP	23	06	53		Slight, near.
26	SHILLONG	Z	eP	00	02	03		Slight, near
26	SHILLONG	Z	eP	00	51	39		Slight, distant.
26	SHILLONG	Z	iP	10	52	29		Slight
26	SHILLONG	Z	eP	13	49	01		Slight
	TOCKLAI	E	e	13	49	52		Slight, distant
			i		50	21		
	DEHRA DUN	N,E	e	13	55	13		Feeble
26	SHILLONG	Z	eP	13	59	43		Slight
26	SHILLONG	Z	eP	17	06	38	250	Slight
			eS		07	23		
26	DEHRA DUN	N,E	e	17	49	15		Tremor
26	DEHRA DUN	N,E	e	18	35	07		Tremor
26	SHILLONG	Z	iP	18	54	43		Slight. Distant Compression.
27	SHILLONG	Z	iP	15	44	06		Slight, Compression.
27	SHILLONG	Z	iP	18	53	51		Slight, rarefaction.
	POONA	Z	iP	18	55	16		Slight. Phases not clear
27	SHILLONG	Z	iP	21	10	29		Slight, Compression.
28	SHILLONG	Z	eP	01	43	23		Slight
28	SHILLONG	Z	iP	03	10	59		Slight
28	Eps: 17°N, 99°W, Guerrero, Mexico. 66 dead, many injured, property damage in Mexico City and Acapulco. M = 08h 40m 04s. (U.S.C.G.S) Magnitude = 7¼-7¾ (Berk), 7¼-7¾ (Shillong), 7¾ (Pas).							
	SHILLONG	Z,N,E	ePKP	08	59	18	15400	Great
		N,E	PP	09	02	21		
		N	PKS		03	36		
			PPP		05	43		
			SKKS		08	59		
			PS		11	59		
			PPS		14	37		
		N,E	i(?)		15	52		
			SS		20	22		
			SSP		21	15		
		N	SSS		25	00		
			i(?)		29	53		
			Lq		37	53		
			Lr		43	38		
			M		54	08		Per. ±20 secs μ ±117
	DEHRA DUN	N,E	ePKP	08	59	32		Great, distant
			i	09	08	50		
			i		19	42		
			i		21	44		
	BOMBAY	N,E	$ePKP_1$	08	59	40	16070	Moderate
			PKP_2		59	48		
		E	PP	09	03	31		
			PPP		06	38		
			SKS_2		07	04		
			$SKKS_1$		09	46		
			$PKKS_1$		12	42		
			PPS		15	02		
			$SKKS_1$		17	36		
28 Contd.	BOMBAY Contd.	E	eSS	09	21	46		
			SSP		22	26		
			i		24	40		
			SSS		28	08		
			M		59	21		Per. ±30 secs μ ±163
		N	M	10	02	20		Per. ±30 secs μ ±289
	BOKARO	N,E	ePKP	08	59	41		Great
		N	i		59	45		
			i	09	02	39		
			i		03	15		
			i		05	10		
			i		08	06		
			i		15	02		
			i		21	32		
			i		26	55		
			M		36	43		Per. ±30 secs μ ±278
	HYDERABAD	N	$ePKP_1$	08	59	42	16580	Great. First
			PKP_2		59	58		movement South
			PP	09	03	18		
			PPP		03	28		
			PPS		15	51		
			SS		22	32		
			SSP		23	36		
			SSS		28	20		
			M		54	39		Per. ±27 secs μ ±173
	POONA	Z	$iPKP_1$	08	59	43	16000	Moderate
		N	PP	09	02	59		
			PKS_2		03	38		
			PPP		06	22		
			SKKS		10	31		
			PS		13	42		
			PPS		16	39		
			SKKS2		16	01		
			SS		21	33		
			SSP		22	33		
			SSS		27	26		
			Lq		40	32		
			SSS_2		41	39		
			Lr		47	22		
			M		59	36		
			Mn	10	03	--		Per. ±30 secs μ ±231
	CALCUTTA	N,E	PKP_1	08	59	50	15850	Great
			PP	09	02	59		
			PKS_2		03	33		
		E	PPP		05	58		
			PS		12	52		
			SKKKS(?)		17	18		
			SSP		21	21		
			SSS		25	59		
			Lr		44	37		
			M		51	05		
			Mn	10	04	57		Per. ±23 secs μ ±246
	PORT BLAIR	N	ePKP	08	59	54		Moderate
			i	09	00	23		
			e		08	09		
	MADRAS	E	PKP	09	00	08		Great
			e		02	06		
			e		03	35		
			e		05	35		
			e		08	04		
			e		08	32		
			e		10	04		
			e		11	41		
			e		12	18		
			e		13	38		
			e		15	18		
			e		19	40		
	KODAIKANAL	E	PKP_1	09	00	14	16510	Great
			PKP_2		00	47		
			PP		04	08		
			PPP		07	38		
			SS		23	20		
			SSP		24	08		
			SSS		29	08		
			Lq		43	50		
			Lr		50	56		
			M	10	03	29		Per. ±27 secs μ ±114

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DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
July 1957						
28 Contd.	COLOMBO	E	e	09 00 25		
			e	10 18		
			e	17 22		
			L	50 54		
			M1	10 01 05		Amp. ≈ 6.0 mm
			M2	14 05		Amp. ≈ 5.5 mm
	TOCKLAI	E	e	09 00 35		Tremor
28	DEHRA DUN	N,E	e	21 40 38		Feeble. Phases
			i	41 01		not clear
29	DEHRA DUN	N,E	e	11 14 30		Tremor
29	SHILLONG	Z	iP	13 11 45		Slight
29	SHILLONG	Z	eP	17 19 55		Feeble, distant
29	TOCKLAI	E	e	17 32 55		Tremor
29	Epc: 23½°S, 71½°W. Near Coast of Chile Felt: Antofagasta. H≈17h 15m 14s (U.S.C.G.S) Magnitude ≈ 7-7¼ (Pas). 6¾ (Berkeley)					
	BOMBAY	N,E	ePKP$_1$	17 35 00	16210	Slight
		E	PP	38 22		
			PS	48 38		
		N	PS	48 46		
		N,E	eSS	57 17		
		E	M	18 38 46		Per. ≈ 21 secs μ ≈ 6
	POONA	Z	iPKP$_1$	17 35 01	16780	Slight
		N	PKP$_2$	35 24		
		E	PP	38 45		
		N	SKKS$_1$	45 57		
			SS	58 38		
			SSS	18 03 55		
			Lq	18 28		
	COLOMBO	E	PKP	17 35 06		
			L	18 32 21		
			M	42 16		Amp. ≈ 0.8 mm
	KODAIKANAL	E	ePKP?	17 35 06		Tremor
	HYDERABAD	E	ePKP$_1$	17 35 12		
			PPP	49 12		
			M	18 35 57		Per. ≈ 18 secs μ ≈ 7
	MADRAS	E	ePKP	17 35 12		Slight
			e	40 00		
			e	42 14		
			e	49 18		
	DEHRA DUN	N,E	ePKP	17 35 13		Feeble. Phases
			i	38 52		not clear
			i	49 12		
			i	53 16		
	CALCUTTA	E	ePKP	17 35 19		Slight, distant
			i	39 55		
			i	47 32		
			e	49 14		

DATE	STATION	COMPT	PHASE	G. M. T. h m s	Δ km	REMARKS
July 1957						
29 Contd.	BOKARO	N,E	i	17 35 20		Slight, distant
		N	i	35 40		
			i	39 40		
			e	44 31		
		E	i	49 56		
	SHILLONG	Z,N,E	iPKP	17 35 24		Slight, distant
		E	i	36 20		Compression.
			i	40 12		Phases not
			i	50 46		clear
30	SHILLONG	Z	iP	02 50 58		Slight
	TOCKLAI	E	e	02 51 17		Slight, distant
			e?	51 21		
30	BOMBAY	N	e	07 12 46		Slight
			e	13 38		
		E	e	13 43		
30	SHILLONG	Z	ePg	08 10 28	80	Slight
			Sg	10 37		
30	SHILLONG	Z	ePg	08 11 50	80	Slight
			Sg	11 59		
30	SHILLONG	Z	eP	09 17 23		Slight
30	POONA	Z	iP	09 41 15	180	Slight
			PP	41 22		
			S	41 37		
			SS	41 47		
30	POONA	Z	iP	10 01 19	190	Feeble
			S	01 41		
			SS	01 52		
			SSS	02 03		
30	TOCKLAI	E	i	16 52 47		Slight, distant
			i	53 14		
			i	53 26		
			i	53 31		
	SHILLONG	Z,N,E	iPg	16 53 03	140	Slight. Felt.
		N,E	Sg	53 19		
30	SHILLONG	Z	eP	17 56 53		Slight, distant.
31	SHILLONG	Z	iP	07 28 34		Slight, distant Rarefaction.
31	Epc: 6½°S, 105°E. Sunda Strait, h ≈ about 100 km. H ≈ 07h 32m 39s (U.S.C.G.S)					
	SHILLONG	Z	iP	07 39 21		Slight, distant
	DEHRA DUN	N,E	e(P)	07 40 52	4970	Feeble. Phases
			i(S)	47 29		not clear
	COLOMBO	E	e	07 42 20		
31	SHILLONG	Z	eP	12 05 10		Slight, distant
31	SHILLONG	Z	iP	16 30 22	360	Slight.
			S	31 01		Compression

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Earthquake Reports

(Non Instrumental Reports)

The following table contains a list of earthquakes that were reported by Voluntary Observers from various stations during the months of July 1957.

Place at which felt	Date in G. M. T	Time in G. M.T. h. m.	Duration in secs.	Intensity in R.F. scale	No. of shocks	Remarks
TEZPUR	01	19 31	60	VI	1	-
HAFLONG	01	19 28	50	VI	3	-
GAUHATI	01	19 30	90	VI	3	-
KAILASHAHAR	01	19 30	62	VI	1	-
SILCHAR	01	19 32	40	VII	2	-
NORTH LAKHIMPUR	01	19 34	3	V	3	-
ROWRAIH (JORHAT)	01	19 34	15	VII	3	-
KUMBHIRGRAM	01	19 29	30	VI	3	-
KOHIMA	01	19 33	10	VI	1	-
DHUBRI	01	19 40	30	VII	2	-
LUMDING	01	19 30	60	VIII	1	-
PASIGHAT	01	19 32	45	VI	3	-
IMPHAL	01	19 29	50	VII	3	-
BINDUKURI	01	19 32	50	VII	1	-
UPPER SHILLONG	01	19 34	75	IV	3	-
MAZBAT	01	19 33	30	VI	1	-
GOALPARA	01	19 17	20	VII	1	-
BERHAMPORE	01	19 31	4	VI	1	-
AGARTALA	01	19 32	30	VII	3	-
CHAPARMUKH	01	19 30	120	-	1	-
UPPER SHILLONG	08	00 34	30	V	3	-
KUMBHIRGRAM	08	00 30	3	IV	1	-
GAUHATI	08	00 32	20	V	1	-
LUMDING	08	00 35	2	V	1	-
IMPHAL	08	00 32	25	VI	2	-
ANGUL	11	22 00	3	IV	1	-
SURI	16	11 41	20	III	1	-
PORT BLAIR	25	15 23	3	III	1	-

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MICROSEISMIC TABULATION

JULY. 1957.

Station: SHILLONG. Component E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
01	00	-	-	-
	06	2	0.4	4.6
	12	2	0.2	4.7
	18	2	0.2	4.4
02	00	3	0.2	4.6
	06	2	0.4	5.0
	12	2	0.4	4.6
	18	3	0.2	4.7
03	00	3	0.4	5.0
	06	2	0.2	4.7
	12	2	0.2	4.9
	18	2	-	-
04	00	2	0.2	4.6
	01	-	-	-
	02	2	0.1	5.0
	03	-	-	-
	04	3	0.2	5.0
	05	-	-	-
	06	3	0.3	5.0
	07	3	0.2	4.8
	08	3	0.3	4.8
	09	3	0.3	5.2
	10	3	0.3	5.0
	11	3	0.3	4.9
	12	-	-	-
	13	-	-	-
	14	3	0.4	4.3
	15	2	0.7	4.5
	16	3	0.4	4.3
	17	3	0.4	4.6
	18	-	-	-
	19	3	0.7	4.8
	20	3	0.6	4.4
	21	2	1.0	4.5
	22	-	-	-
	23	3	0.7	4.8
05	00	-	-	-
	06	2	0.7	4.9
	12	2	0.6	4.5
	18	3	0.5	4.8
06	00	3	0.5	4.9
	06	3	0.6	4.9
	12	3	0.5	4.8
	18	3	0.4	4.8
07	00	3	0.5	4.8
	06	3	0.5	4.9
	12	3	0.6	5.2
	18	3	0.5	4.7
08	00	3	0.5	5.1
	06	3	0.4	4.7
	12	3	0.5	4.8
	18	3	0.6	5.1
09	00	3	0.5	4.7
	06	3	0.7	6.1
	12	-	-	-
	18	3	0.5	5.2
10	00	3	0.4	5.3
	06	-	-	-
	12	3	0.8	5.5
	18	3	0.6	5.4
11	00	3	0.7	6.4
	06	3	0.6	5.6
	12	3	0.7	5.6
	18	3	0.7	5.6
12	00	3	0.7	5.9
	06	3	0.7	5.3
	12	3	0.7	6.0
	18	3	0.5	5.8
13	00	3	0.7	5.4
	06	-	-	-
	12	3	0.5	4.8
	18	3	0.5	4.6
14	00	3	0.5	5.2
	06	3	0.6	4.9
	12	3	0.5	4.4
	18	3	0.6	4.8
15	00	3	0.6	5.8
	06	3	0.7	5.0
	12	3	0.6	4.7
	18	-	-	-
16	00	3	0.6	5.5
	06	3	0.6	5.5
	12	3	0.6	5.3
	18	3	0.7	5.5
17	00	-	-	-
	06	3	0.4	5.0
	12	-	-	-
	18	3	0.5	4.8
18	00	3	0.2	5.6
	06	-	-	-
	12	3	0.4	5.0
	18	3	0.4	4.4
19	00	3	0.2	5.0
	06	3	0.3	4.7
	12	3	0.2	4.6
	18	3	0.4	4.8
20	00	3	-	4.5
	06	3	0.4	4.5
	12	-	-	-
	18	-	-	-
21	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
22	00	-	-	-
	06	-	-	-
	12	3	0.2	5.2
	18	3	0.2	4.4
23	00	3	0.2	4.4
	06	-	-	-
	12	-	-	-
	18	-	-	-
24	00	3	-	-
	06 (0,0)	-	-	-
	12	3	0.2	4.0
	18	3	0.3	5.4
25	00 (0,0)	-	-	-
	06 (0,0)	-	-	-
	12 (0,0)	-	-	-
	18	3	0.2	4.8
26	00	3	0.2	5.3
	01	3	0.2	5.2
	02	3	0.2	4.8
	03 (0,0)	-	-	-
	04	3	0.2	5.5
	05	3	0.2	4.8
	06	3	0.2	5.5
	07 (0,0)	-	-	-
	08	3	0.3	6.5
	09	3	0.5	7.0
	10	3	0.2	4.3
	11	3	0.3	5.2
	12	3	0.3	5.2
	13	3	0.3	5.3
	14	-	-	-
	15	3	0.3	4.5
	16	3	0.2	4.3
	17	3	0.3	4.8
	18	3	0.2	5.5
	19	-	-	-
	20	3	0.5	5.6
	21	3	0.2	5.7
	22	3	0.2	4.8
	23	3	0.3	4.5
27	00	3	0.2	4.5
	01	3	0.3	6.5
	02	3	0.4	5.7
	03	3	0.4	5.0
	04	3	0.2	6.3
	05	3	0.2	5.0
	06	3	0.2	5.3
	07	3	0.1	6.0
	08	3	0.2	5.4
Contd.	09	3	0.2	5.1
	10	3	0.2	4.8
	11	3	0.2	5.0
	12	3	0.3	5.0
	13	-	-	-
	14	3	0.3	5.3
	15	3	0.3	5.4
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	3	0.2	5.0
	21	3	0.2	5.5
	22	3	0.3	5.5
	23	3	0.2	6.3
28	00	3	0.3	6.3
	06	3	0.2	5.0
	12	3	0.2	4.5
	18	3	0.2	4.2
29	00	3	0.2	4.5
	06	3	0.2	5.2
	12	3	0.2	4.6
	18	-	-	-
30	00	3	0.2	5.0
	06	3	0.2	4.2
	12	3	0.3	5.1
	18	3	0.3	5.0
31	00	3	0.2	4.3
	06	3	0.2	5.2
	12	3	0.3	4.5
	18	3	0.2	4.8

Colaba Observatory, BOMBAY
Component: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
01	00	2	2.3	4.8
	06	2	1.9	5.4
	12	2	2.2	4.2
	18	2	1.9	4.3
02	00	2	1.7	4.5
	06	2	1.6	4.5
	12	2	1.9	4.5
	18	2	1.7	4.3
03	00	2	1.7	4.2
	06	2	1.7	3.9
	12	2	1.9	4.4
	18	2	1.7	5.0
04	00	2	1.7	4.5
	01	2	1.9	4.4
	02	2	1.7	4.9
	03	2	1.9	4.2
	04	2	1.7	4.9
	05	2	1.7	4.8
	06	2	1.5	4.8
	07	2	1.7	4.5
	08	2	1.7	4.2
	09	2	1.8	4.5
	10	2	2.0	4.4
	11	2	2.1	4.5
	12	2	1.9	4.9
	13	2	2.0	4.9
	14	2	1.9	4.3
	15	2	2.0	4.6
	16	2	1.9	4.5
	17	2	2.0	4.8
	18	2	2.1	4.2
	19	2	1.7	5.1
	20	2	1.9	4.9
	21	2	2.0	4.9
	22	2	1.9	4.6
	23	2	1.8	4.9
05	00	2	1.7	4.7
	06	2	2.2	4.9
	12	2	2.1	4.5
	18	2	2.0	4.4
06	00	2	1.8	4.3
	06	2	2.3	4.8
	12	2	2.2	4.7
	18	2	2.0	4.7
07	00	2	2.1	4.4
	06	2	2.5	5.0
	12	2	2.5	4.6
	18	2	2.4	5.3
08	00	2	2.1	4.8
	06	2	2.8	5.3
	12	2	2.2	5.3
	18	2	2.5	5.4
09	00	2	2.5	5.4
	06	2	2.5	4.4
	12	2	2.5	4.9
	18	2	2.3	4.9
10	00	2	2.3	4.4
	06	2	2.6	4.4
	12	2	2.8	4.5
	18	2	2.6	4.7
11	00	2	2.3	4.7
	06	2	2.6	4.0
	12	2	2.5	4.9
	18	2	2.6	4.3
12	00	2	2.5	4.8
	06	2	3.0	4.7
	12	2	2.7	4.6
	18	2	2.8	4.8
13	00	-	-	-
	06	2	2.7	4.7
	12	2	3.1	4.5
	18	2	2.9	4.3
14	00	2	3.1	4.0
	06	2	3.3	3.8
	12	2	3.5	4.1
	18	2	3.5	4.5
15	00	2	3.3	4.1
	06	2	2.9	4.7
	12	2	4.1	4.9
	18	2	2.9	4.3
16	00	2	3.0	5.3
	06	2	2.9	5.2
	12	2	2.9	4.7
	18	2	2.5	5.2
17	00	2	2.4	4.7
	06	2	2.5	5.4
	12	2	2.3	5.1
	18	2	2.4	5.1
18	00	2	2.3	4.8
	06	2	2.5	4.5
	12	2	2.9	4.4
	18	2	2.4	5.0
19	00	-	-	-
	06	2	2.8	5.3
	12	2	2.7	4.9
	18	2	2.7	4.9
20	00	-	-	-
	06	2	2.8	5.4
	12	2	2.5	5.1
	18	2	2.7	5.4
21	00	2	2.6	5.4
	06	2	2.3	5.0
	12	2	2.3	5.4
	18	2	2.5	5.1
22	00	2	2.9	5.2
	06	2	2.3	5.1
	12	2	2.5	4.8
	18	2	2.4	5.1
23	00	2	2.3	4.7
	06	2	2.3	5.0
	12	2	2.1	4.8
	18	2	1.9	5.2
24	00	2	1.9	4.9
	06	2	1.7	4.6
	12	-	-	-
	18	2	1.8	4.8
25	00	2	1.5	5.1
	06	2	1.5	4.7
	12	2	1.5	5.0
	18	2	1.4	4.9

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.	DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.	DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.	DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
Colaba Observatory. BOMBAY					Component E-W.														
26	00	2	1.4	4.8	04	00	3	0.7	3.3	15 Contd.	18	1	1.7	5.2	26 Contd.	18	3	0.9	4.9
	01	2	1.3	4.7		01	3	0.7	3.3		21	1	1.9	5.6		19	3	0.9	4.9
	02	2	1.3	5.0		02	3	0.9	3.5							20	3	0.9	4.8
	03	2	1.7	4.9		03	3	0.8	3.3	16	00	1	1.7	5.8		21	3	1.0	5.0
	04	2	1.1	4.4		04	3	0.5	3.4		03	1	2.1	5.6		22	3	0.9	4.7
	05	2	1.3	4.7		05	3	0.4	3.3		06	1	2.3	5.8		23	3	0.9	4.6
	06	2	1.3	4.8		06	3	0.8	3.3		12	1	2.1	5.9					
	07	2	1.3	4.5		07	3	0.9	3.3		18	1	2.0	5.9	27	00	3	0.9	4.9
	08	2	1.5	4.8		08	3	0.9	3.2		21	1	1.8	5.7		01	3	0.8	4.2
	09	2	1.3	4.6		09	3	0.9	3.2								1	0.6	2.4
	10	2	1.5	4.5		10	3	1.0	3.9	17	00	1	1.9	5.9		02	1	0.7	2.3
	11	2	1.3	4.6		11	3	0.9	3.4		03	1	2.1	5.6		03	1	0.9	2.4
	12	2	1.1	4.4		12	3	0.9	3.4		06	1	1.9	5.8		04	1	0.9	2.4
	13	2	1.1	4.1		13	3	1.0	3.7		12	1	1.6	5.7		05	1	0.8	2.9
	14	2	1.3	4.0		14	3	0.7	3.4		18	1	1.8	5.8		06	1	0.8	2.8
	15	2	1.4	4.7		15	3	1.0	3.6		21	1	1.5	5.8		07	8	0.8	3.5
	16	2	1.2	4.9		16	1	0.9	3.0							08	3	0.9	4.9
	17	2	1.3	4.9		17	1	0.9	3.0	18	00	1	1.5	5.9		09	3	0.8	4.8
	18	2	1.2	4.5		18	1	1.0	3.2		03	1	1.4	5.7		10	3	0.8	4.8
	19	2	1.3	4.4		19	1	0.9	3.1		06	1	1.3	5.9		11	3	0.9	4.9
	20	2	1.3	4.4		20	1	0.9	3.0		12	1	1.5	5.5		12	3	0.9	5.0
	21	2	1.3	4.3		21	3	0.9	3.6		18	1	1.5	5.5		13	3	0.9	5.0
	22	2	1.1	4.3		22	3	0.9	3.5		21	1	1.4	5.5		14	3	0.8	5.1
	23	2	1.4	5.0		23	3	0.9	3.2							15	3	0.9	4.9
27	00	2	1.2	4.5	05	00	3	0.6	3.1	19	00	1	1.4	5.2		16	3	0.8	4.9
	01	2	1.3	4.6		03	3	1.0	4.7		03	1	1.6	5.7		17	3	0.9	4.8
	02	2	1.0	4.6		06	3	1.0	4.6		06	1	1.7	5.7		18	3	0.9	4.9
	03	2	1.0	4.6		12	1	1.2	4.4		12	1	1.5	5.7		19	3	0.9	4.9
	04	2	0.9	4.4		18	1	1.2	4.3		18	1	1.2	5.6		20	3	0.8	4.9
	05	2	1.0	4.4							21	1	1.6	5.6		21	3	0.8	4.9
	06	2	1.0	4.3	06	00	1	1.1	4.2							22	3	0.9	4.9
	07	2	1.3	4.3		03	1	1.2	4.3	20	00	1	1.6	5.7		23	3	0.8	4.9
	08	2	1.3	4.4		06	1	1.3	4.5		03	1	1.8	5.4					
	09	2	1.1	4.6		12	1	1.4	4.3		06	1	1.7	5.5					
	10	2	1.0	3.4		18	1	1.3	4.7		12	1	1.5	5.4	28	00	3	0.8	4.9
	11	2	1.1	4.5							18	1	1.8	5.5		03	3	0.7	4.8
	12	2	1.1	4.3	07	00	3	1.1	4.2		21	1	1.9	5.5		06	3	0.6	4.9
	13	2	1.1	4.6		03	3	1.5	4.3	21	00	2	1.6	5.5		12	3	0.6	4.4
	14	2	1.1	4.8		06	3	1.3	3.3		03	1	2.2	5.5		18	3	0.7	4.7
	15	2	0.9	4.4		12	3	1.5	4.6		06	2	1.9	5.4	29	00	3	0.6	4.4
	16	2	1.0	4.3		18	3	1.6	4.9		12	1	1.6	5.4		03	3	0.7	3.7
	17	2	1.1	4.8							18	1	1.8	5.4		06	3	0.7	4.1
	18	2	1.1	4.5	08	00	3	1.4	4.5							12	3	0.5	4.3
	19	2	1.1	4.2		03	1	1.5	4.3							18	-	-	-
	20	2	1.1	4.4		06	1	1.7	4.9	22	00	2	1.5	5.3					
	21	2	1.3	4.1		12	1	1.3	4.8		03	1	1.6	5.5	30	00	3	0.6	3.4
	22	2	1.3	3.7		18	1	1.9	3.3		06	1	1.7	5.6		03	3	0.4	2.9
	23	2	1.1	4.2							12	1	1.7	5.1		06	3	0.6	3.1
					09	00	1	1.9	5.0		18	1	1.5	5.4		12	3	0.7	3.4
28	00	2	1.0	4.0		03	1	1.8	4.9		21	1	1.4	5.6		18	3	0.9	4.1
	06	2	1.2	4.1		06	3	1.5	5.0										
	12	2	-	-		12	3	1.5	5.5	23	00	3	1.4	5.5	31	00	3	0.6	3.7
	18	2	1.4	4.1		18	3	1.4	5.2		03	-	-	-		03	1	0.9	4.2
											06	-	-	-		06	3	0.8	4.4
29	00	2	1.2	4.0	10	00	3	1.2	5.0		12	-	-	-		12	3	0.7	4.0
	06	2	1.3	3.9		03	3	1.2	4.6		18	-	-	-		18	1	0.9	4.1
	12	2	1.5	3.8		06	1	1.5	5.0										
	18	2	-	-		12	1	1.5	5.1	24	00	3	1.7	5.6					
						18	3	1.1	5.2		03	3	1.3	5.1					
30	00	2	1.7	4.0							06	3	1.2	5.3					
	06	2	1.5	4.0	11	00	3	1.0	5.1		12	3	1.2	5.2					
	12	2	1.7	4.2		03	3	1.3	5.1		18	3	1.1	4.8					
	18	2	1.7	4.0		06	3	1.3	5.1										
						12	3	1.4	5.4	25	00	3	1.1	5.2					
31	00	2	1.7	4.3		18	3	1.2	5.0		03	-	-	-					
	06	2	1.7	4.3							06	3	1.1	5.0					
	12	2	1.9	3.9	12	00	3	1.2	4.8		12	3	0.9	3.1					
	18	2	-	-		03	3	1.1	4.6		18	3	0.8	3.3					
						06	3	1.3	4.8										
			MADRAS			12	3	1.4	4.8	26	00	3	1.8	4.3					
01	00	3	1.1	4.9		18	3	1.4	5.0		03	3	0.5	4.2					
	03	3	1.1	4.6							02	3	0.9	4.5					
	06	3	1.1	5.0	13	00	3	1.3	4.6		03	3	0.8	5.1					
	12	3	1.2	5.4		03	3	1.4	5.0		04	3	0.7	4.8					
	18	3	1.0	4.9		06	3	1.4	4.8		05	3	1.0	5.1					
						12	3	1.3	4.9		06	3	1.1	5.1					
02	00	3	0.7	4.3		18	3	1.5	5.1		07	3	1.0	4.9					
	03	3	0.7	4.7							08	3	0.8	4.9					
	06	3	1.1	4.4	14	00	3	1.1	4.9		09	3	0.8	5.0					
	12	3	0.9	4.5		03	3	1.5	5.0		10	3	1.0	4.9					
	18	3	0.9	4.4		06	3	1.5	4.8		11	3	1.0	5.0					
						12	3	1.7	5.0		12	3	1.0	4.9					
03	00	3	0.7	3.9		18	3	1.5	4.8		13	3	1.0	4.9					
	03	3	0.8	3.8							14	3	0.8	4.9					
	06	3	0.7	3.7	15	00	3	1.5	5.2		15	3	0.9	4.9					
	12	3	0.8	3.7		03	3	1.8	4.9		16	3	1.5	5.0					
	18	3	0.9	3.8		06	3	1.6	5.0		17	3	0.8	4.9					
						12	3	1.7	5.1										

International Seismological Centre From the ISC collection scanned by SISMOS

Geophysical Laboratory
Bengal Engineering College*
Howrah, India.

Analysis of Microseismic Movements.
Station: Howrah. Lat. 22°33' N, Long. 88°19' E.
Foundation: Alluvium Month:- July, 1957.

Component: N-S. Component N-S.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
01	00	-	4.1	3.4
	06	-	4.9	3.3
	12	-	4.8	3.7
	18	3	4.5	2.8
			6.4	4.1
02	00	-	5.6	3.4
	06	-	8.1	4.2
	12	1	6.7	4.7
	18	-	4.1	2.6
			6.2	3.6
03	00	-	5.5	3.2
	06	-	5.7	3.4
	12	-	6.6	3.3
	18	-	6.7	3.4
04	00	-	4.2	3.4
	06	-	4.5	3.5
	12	-	4.9	3.7
	18	-	4.1	2.3
05	00	-	4.0	3.3
	06	-	4.5	3.3
	12	-	3.8	3.3
	18	-	3.0	3.3
06	00	-	4.4	3.7
	06	-	3.9	3.9
	12	-	4.3	3.9
	18	-	4.9	4.2
07	00	-	4.4	4.2
	06	-	4.0	4.0
	12	-	4.8	4.0
	18	-	4.3	4.1
08	00	-	2.8	2.9
			4.0	4.2
	06	-	4.1	4.2
	12	-	3.5	3.4
			4.5	4.4
	18	-	3.3	3.9
09	00	-	3.4	3.5
	06	-	4.2	3.7
	12	-	3.9	3.4
	18	-	2.8	3.2
10	00	-	3.1	3.5
	06	-	3.6	3.7
	12	-	4.1	3.8
	18	-	2.9	3.4
11	00	-	3.2	3.7
	06	-	4.8	4.0
	12	-	4.2	4.0
	18	-	3.2	3.9
12	00	-	2.8	3.5
	06	-	3.5	3.9
	12	-	2.5	3.7
	18	3	3.2	3.5
			3.7	3.5
13	00	-	3.1	3.7
			4.1	3.7
	06	-	6.3	3.8
			5.5	3.5
	12	-	4.5	3.2
	18	-	7.1	3.4
14	00	-	6.0	3.4
	06	-	6.6	3.4
	12	-	4.8	3.4
	18	-	3.8	3.4

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
15	00	-	4.1	3.3
	06	-	3.4	3.4
	12	-	3.6	3.9
	18	-	3.9	3.9
16	00	2	2.9	3.3
			5.9	4.4
	06	-	4.3	3.8
	12	-	3.7	4.0
	18	-	2.4	2.9
17	00	-	3.6	3.8
	06	-	4.1	4.0
	12	-	3.7	3.7
	18	3	3.1	2.6
			3.8	4.2
18	00	-	4.0	3.5
	06	-	-	-
	12	-	6.1	3.7
	18	-	6.8	3.3
19	00	3	5.0	3.1
			5.6	3.9
	06	-	6.3	3.5
	12	-	6.2	3.6
	18	3	4.8	2.8
			5.3	3.5
20	00	-	5.4	3.3
	06	-	5.7	3.5
	12	-	4.1	3.4
	18	3	3.1	3.0
			5.5	3.5
21	00	3	3.9	3.5
			3.8	3.3
	06	-	5.6	3.7
	12	-	3.9	3.5
	18	-	3.4	3.3
23	00	3	4.3	3.3
	06	-	3.0	4.0
			4.1	3.6
	12	3	3.0	2.9
			4.4	3.5
	18	-	2.7	3.4
23	00	-	2.9	3.3
	06	-	-	-
	12	-	2.5	2.7
	18	3	2.1	2.7
			2.5	2.3
24	00	-	3.3	2.7
	06	3	2.5	2.7
	12	-	2.3	2.6
	18	-	2.3	2.9
25	00	-	3.9	2.7
	06	-	2.9	3.3
	12	-	2.9	2.7
	18	-	3.6	3.0
26	00		2.2	2.8
	03	0..	-	-
	12	0..	-	-
	18	-	1.7	4.3
27	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
28	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	1.7	4.0
29	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
30	00	-	2.4	4.1
	06	-	-	-
	12	-	2.1	3.3
	18	-	2.1	3.9
31	00	-	1	3.7
	06	-	-	-
	12	-	2.0	3.8
	18	-	2.1	4.0

Component: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
01	00	-	4.6	3.4
	06	-	5.6	3.5
	12	-	5.3	3.8
	18	3	3.4	2.8
			4.5	3.9
02	00	-	5.9	3.5
	06	-	7.0	4.2
	12	-	5.8	4.2
	18	3	5.1	2.5
			6.3	3.5
03	00	-	4.6	3.4
	06	-	4.5	3.5
	12	-	4.8	3.4
	18	-	-	-
			-	-
04	00	-	4.4	3.4
	06	-	3.5	3.2
	12	-	3.9	3.4
	18	-	3.4	3.5
05	00	-	4.4	3.5
	06	-	3.1	3.3
	12	-	3.1	3.3
	18	-	3.4	3.4
06	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
07	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
08	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
09	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
10	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
11	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
12	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
13	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
14	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
15	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
16	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
17	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
18	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
19	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
20	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
21	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
22	00	-	3.4	3.4
	06	-	3.4	3.4
	12	-	3.4	3.4
	18	-	3.4	3.4
23	00	-	4.2	3.4
	06	2		
		0..		
	12	2	-	-
		0..		
	18		4.2	3.3
24	00	2.3	2.7	3.2
	06	0..	-	-

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DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
Component E-W				
24 Contd.	12	0	2.9	3.2
	18	0	2.9	2.9
25	00	0	2.3	2.7
	06	0		
	12	0		
	18	0		
26	00	0		
	06	0		
	12	0		
	18	0	2.2	4.1
27	00	0		
	06	0		
	12	0		
	18	0		
28	00	0		
	06	0		
	12	0		
	18	0		
29	00	0		
	06	0		
	12	0		
	18	0		
30	00	3	4.9	2.0
			3.8	5.1
	06			
		0		
	12	0		
		0		
	18			
		0	3.0	4.0
31	00		2.6	2.9
	06	0		
	12	0		
	18		2.4	4.1
Component: Vertical				
01	00		2.3	3.8
	06		2.2	3.5
	12		1.7	3.4
	18	3	1.1	2.6
			1.7	3.5

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (MICRON)	MEAN PERIOD SECS
12			0.9	3.4
22	00		1.9	3.6
	06		1.8	3.9
	12		2.8	3.5
	18		1.6	3.5
23	00		0.9	3.2
	06	0		
	12	0		
	18		0.7	3.2
	00		0.8	2.9
	06	0		
	12	0		
	18	0		

* For ICY ... only.

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S.Basu, M.Sc., F.N.I.,
Director General of Observatories

FEB 14 1961

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Instruments and their Constants

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFI-CATION	DAMPING RATIO	PAPER SPEED mm/min
OMBAY	Milne-Shaw	N	12	350	23:1	16
	Milne-Shaw	E	12	350	12:1	8
	Sprengnether	E	To=Tg=7	"	"	30
OKARO	Milne-Shaw	N	12	250	20:1	16
	Milne-Shaw	E	12	250	20:1	16
	Wood-Anderson	E	0.8	960	h= 0.8	60
	Wood-Anderson	N	0.8	1000	h= 0.8	60
OMBO	Milne-Shaw	E	11.9	250	20:1	--
LCUTTA	Milne-Shaw	E	12	250	20:1	8
	Wood-Anderson	N	2	870	Critical	30
	Omori-Ewing	N	16	32	"	25.4
	Omori-Ewing	E	21	30	"	25.4
ITRA	Milne-Shaw	E	12	250	20:1	16
	Milne-Shaw	N	10	150	20:1	16
	Wood-Anderson	E	1	1000	30:1	60
	Wood-Anderson	N	1	1000	40:1	60
	Benioff Short Period	Z	To= .72 Tg= .45	"	Critical	60
	Wenner Accellerograph	ENZ	"	"	"	--
HRA DUN	Wood-Anderson	N	0.8	950	Critical	60
	Wood-Anderson	E	0.8	850	Critical	60
	Milne-Shaw	N	12	250	20:1	8
	Milne-Shaw	E	12	250	20:1	8

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFI-CATION	DAMPING RATIO	PAPER SPEED mm/min
HYDERABAD	Milne-Shaw	E	12	250	20:1	8
	Milne-Shaw	N	12	250	20:1	8
KODAIKANAL	Milne-Shaw	E	10	250	20:1	8
MADRAS	Sprengnether	E	To=Tg= 7.4	"	"	30
POONA	Sprengnether	Z	To=Tg=1.6	"	Critical	30
	Wood-Anderson	E	4	1000	20:1	16
	Milne-Shaw	N	12	280	20:1	8
PORT BLAIR	Wood-Anderson	N	2	1000	20:1	30
SHILLONG	Wood-Anderson	N	0.8	1000	h = 0.8	30
	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Milne-Shaw	N	12	250	20:1	8
	Benioff	Z	To = 1.0 Tg = 0.13	"	"	60
	Sprengnether	E	To=Tg=6.8	"	"	30
	Wenner Accellerograph	ENZ	"	"	"	--
TOCKLAI	Wood-Anderson	E	0.8	970	h = 0.8	60
VIZIANAGRAM	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Wood-Anderson	N	2	1000	20:1	30

List of Seismograph station

Station	Latitude	Longitude	Height a.s.l (Metres)	Lithographic foundation
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
BOKARO	23°50'N	85°48'E	-	Rock
COLOMBO	06°54'N	79°52'E	7	Beach Sand
CALCUTTA	22°32'N	88°22'E	(1) 7(Milne-Shaw)	Alluvium
			(2) 6(Omori-Ewing)	
CHATRA	26°50'N	87°10'E	161	Sand Stone
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	"
NEW DELHI	28°35'N	77°12'E	207	Massive Quartzite
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	"	"
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	"	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	"	"

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
01	SHILLONG	Z	eP	02	25	29		Feeble, local.
01	DEHRA DUN	N,E	e	08	48	11		Tremor
01	DEHRA DUN	N,E	e	11	01	37		Feeble, phases not identifiable
			i		03	08		
			i		04	02		
	CHATRA	Z	iP	11	03	21		Slight
		E	i		06	27		
	SHILLONG	Z	iP	11	03	39		Slight, distant, Rarefaction.
	POONA	Z	i	11	08	08		Tremor
01	DEHRA DUN	N,E	e	11	19	42		Feeble, phases not clear
01	SHILLONG	Z	iP	16	30	07		Slight, distant Compression
01	SHILLONG	Z	eP	17	44	17		Slight, distant.
01	SHILLONG	Z	iP	18	00	03		Slight, distant Rarefaction
02	SHILLONG	Z	iP	09	25	32		Slight, distant. Compression
02	SHILLONG	Z	iP	09	47	14		Slight, distant Compression
02	SHILLONG	Z	eP	12	33	04		Slight, distant Compression
02	CHATRA	Z	i	12	33	16		Feeble.
02	SHILLONG	Z	eP	13	36	16		Feeble, local.
03	SHILLONG	Z	eP	04	41	00		Feeble, near. Compression
	CHATRA	Z	i	04	41	02		Feeble, near
03	Epc: 7°S, 103°E. Off South Coast of Sumatra - H = 06h 43m 40s G.M.T. (USCGS)							
	SHILLONG	Z	iP	06	50	28		Slight. Compression
	CHATRA	Z	i	06	50	55		Feeble
	DEHRA DUN	N,E	eP	06	51	52	5020	Feeble
			eS		58	32		
	COLOMBO	E	P	06	53	52		
			L	07	01	27		
			M		02	42		Amp. ±0.6 mm
03	CHATRA	Z	iP	07	59	41	160	Slight
			iS	08	00	01		
03	SHILLONG	Z,N,E	iP	13	02	05		Feeble, local First movement North and West
04	Epc: 3½°S, 145°E. Near North Coast of New Guinea - H = 00h 39m 12s (U.S.C.G.S)							
	SHILLONG	Z,E	eP	00	49	13	6690	Slight
		N,E	iS		57	26		
	CALCUTTA	E	e(P)	00	49	56		Slight
			i		51	06		
			i(S)		58	01		
			i	01	00	48		
	BOMBAY	E	e	00	53	31		Slight
		N,E	e	01	00	32		
		E	e		05	20		
	MADRAS	E	e	00	55	42		Slight, phases could not be identified due to presence of steady microseism.
			i		59	00		
			i		59	14		
			i		59	33		
			i		59	59		
			i	01	01	17		
	BOKARO	N,E	e(M)	00	58	25		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
04	TOCKLAI	E	eP	01	03	13		Slight
			i		03	45		
			i		04	00		
	SHILLONG	Z	eP	01	03	42		Slight, distant Compression
04	SHILLONG	Z	e	02	30	51		
04	CHATRA	Z	iPg	03	10	45	120	Feeble
			iSg		11	01		
04	SHILLONG	Z	eP	10	07	20	330	Feeble, near
			eS		07	57		Rarefaction
04	DEHRA DUN	N,E	e	17	58	26		Tremor
04	SHILLONG	Z	eP	18	33	29		Slight, local Compression
	CHATRA	Z	i	18	34	29		Feeble
04	Epc: 45°S, 35°E. Prince Edward Islands Region - H = 21h 08m 51s (U.S.C.G.S)							
	COLOMBO	E	P	21	19	45	7340	
			S		26	52		
			L		36	30		
			M		42	00		Amp. ±0.9 mm
	KODAIKANAL	E	iS	21	29	01		Very slight.
			e		33	16		First movement
			e		37	42		West.
								Per. ±22 secs. μ±10
	POONA	Z	eP	21	20	22	8180	Slight
		N	eS		29	52		
			SS		34	33		
			SSS		37	58		
			Lr		42	34		
	BOMBAY	N,E	eP	21	20	26	8110	Slight
			eS		29	53		
		E	M		50	14		Per. ±14 secs. μ±4
		N	M		55	24		Per. 14 secs. μ± 3
	HYDERABAD	E	eP	21	20	28	8350	Moderate
			PPP		24	40		
			iS		30	07		
			PPS		30	43		
			SS		34	40		
			Lq		39	40		
			Lr		40	58		
			M		47	37		Per. ±15 secs. μ±5
	MADRAS	E	eP	21	20	31	7500	Slight
			PcP		21	01		
			PP		22	51		
			e		28	56		
			S?		29	29		
			e		30	10		
			e		32	56		
			e		36	13		
			e		39	08		
			M		44	14		
	DEHRA DUN	N,E	eP	21	21	26	9580	Slight, other
		N	iS		32	01		phases not clear
			SS		37	34		
	CHATRA	Z	iP	21	21	37	9760	Slight
		E	eP					
			iS		32	20		
	SHILLONG	Z,N,E	eP	21	21	39	9890	Slight
		N,E	iS		32	26		
	CALCUTTA	E	e	21	22	14		Slight
			i(S)		31	50		
	BOKARO	N,E	e	21	31	35		Slight
05	SHILLONG	Z	eP	08	23	45		Slight, distant Rarefaction
05	SHILLONG	Z	ePg	09	04	46	200	Feeble
			iSg		05	01		
05	SHILLONG	Z	eP	12	15	36		Feeble, near

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
05	CHATRA	Z	iPg	14	53	26	100	Feeble
			iSg		53	39		
05	SHILLONG	Z	e	21	13	02		
	CHATRA	Z	i	21	13	29		Feeble, near.
05	SHILLONG	Z	iPg	21	54	31	210	Feeble,
			eSg		54	56		rarefaction.
06	SHILLONG	Z	iP	03	41	21		Feeble, near Compression.
06	SHILLONG	Z	iPg	08	41	34	80	Feeble,
			iSg		41	40		compression
			SSS		42	10		
06	SHILLONG	Z	eP	13	57	37		Feeble,distant
06	DEHRA DUN	N,E	e	17	08	57		Tremor
06	CHATRA	Z	iPg	17	37	51	70	Feeble
			iSg		38	01		
06	SHILLONG	Z	iP	23	58	54		Slight,distant Rarefaction
07	CHATRA	Z,E	iP	08	46	46	100	Slight
			iS		47	00		
	SHILLONG	Z	eP	08	47	31	300	Slight,
			eP•		47	34		rarefaction.
			ePP		47	38		
		Z,E	ePg		47	41		
		Z	eSg		48	10		
			eSSS		48	24		
07	DEHRA DUN	N,E	e	15	30	37		Feeble,phases
			i		31	59		not clear
			i		32	10		
	CHATRA	Z	iP	15	32	15	1960	Slight
	SHILLONG	Z,E	eP	15	33	03		Slight,distant Compression
07	SHILLONG	Z	iPg	19	01	11	130	Feeble,
			eSg		01	26		rarefaction
08	SHILLONG	Z	e	11	58	33		
08	SHILLONG	Z	eP	18	07	05		
08	TOCKLAI	E	eP	19	44	47		Slight,distant
	SHILLONG	Z,E	iP	19	45	16	2010	Slight,
			PP		45	38		rarefaction
			eS		48	36		
			Lq		48	49		
			SS		49	09		
			SSS		49	29		
			Lr		49	40		
			M		51	00		
08	Epc: Sinkiang Province, China. - H = 19h 42m 39s G.M.T. (U.S.C.G.S)							
	CHATRA	Z	iP	19	46	02	2640	Slight
		E	eP					
		E	iS		50	15		
	DEHRA DUN	N,E	e	19	47	43		Feeble
			i		51	33		
09	Epc: 2°S, 137°E. New Guinea. H = 02h 29m 20s (USCGS)							
	CALCUTTA	E	e(?)	02	38	11		Slight
			iS		46	20		
			i		50	26		
	SHILLONG	Z,E	iP	02	38	29	5690	Slight,
		N,E	iS		45	47		rarefaction. First movement East.
	CHATRA	Z	iP	02	38	58	6200	Slight
		E	iS		46	45		
	BOKARO	N,E	eP	02	39	02	6180	Slight
			iS		46	47		
	COLOMBO	E	e	02	41	25		
			S		46	50		
			L		50	55		
			M		52	05		Amp.=0.5 mm

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
09 Contd.	MADRAS	E	i	02	43	19		Moderate
			e		43	35		
			iS		47	16		
			e		48	05	e 02	47 49
			e		48	18		
			e		48	54		
			e		50	14		
			e		50	53		
	HYDERABAD	E	iP	02	39	36	6600	Moderate.First
			PPP		43	06		movement East
			PcS		44	42		
			iS		47	45		
			PPS		48	26		
			SS		51	36		
			SSS		53	54		
			Lq		54	33		
			Lr		57	36		
			M	03	00	42		Per.=24 secs μ = 8
		N	M		02	27		Per.=15 secs μ = 4
	DEHRA DUN	N,E	eP	02	40	03	7160	Slight
		N	iS		48	42		
			SS		53	00		
			Lq		56	51		
			M	03	05	08		
	POONA	Z	iP	02	40	05	7170	Slight
		N,E	eS		48	44		
09	SHILLONG	Z	eP	05	45	49		Slight,distant
09	SHILLONG	Z	iP	07	54	20		Slight,distant Compression
09	SHILLONG	Z	ePg	08	40	18	290	Feeble
			e		40	21		
			eSg		40	51		
			e		41	02		
09	SHILLONG	Z	iP	11	08	41		Slight,distant Rarefaction
09	CHATRA	Z	i	11	08	56		Feeble,distant
09	SHILLONG	Z	iP	15	56	33		Feeble,local
09	SHILLONG	Z	eP	23	06	41		Slight,distant
09	SHILLONG	Z	iP	23	38	59		
10	SHILLONG	Z	iP	00	00	39		Slight,distant Compression
10	SHILLONG	Z	iP	00	10	31		Slight,distant Compression
	CHATRA	Z	i	00	10	48		Feeble,distant
10	SHILLONG	Z	eP	07	00	25		
10	SHILLONG	Z	eP	12	12	26		Tremor
10	TOCKLAI	E	eP	12	56	08		Slight,distant
			i		56	42		
10	SHILLONG	Z	eP	12	56	21		Slight,distant Compression
10	SHILLONG	Z	eP	17	48	26		Slight,distant
10	SHILLONG	Z	iP	18	22	20		Tremor
10	PORT BLAIR	E	iP	18	45	19	130	Slight
			eSg		45	34		
10	Epc: 3½°N, 124½°E. Celebes Sea. h = about 300 kms - H = 19h 12m 47s G.M.T. (U.S.C.G.S)							
	TOCKLAI	E	iP	19	19	39		Slight. First movement West
	SHILLONG	Z,E	iP	19	19	45		Slight. Compression. First movement East.
	CHATRA	Z	iP	19	20	18	4300	Slight
		E	iS		26	16		
	MADRAS	E	iP	19	20	37		Slight. First
			e		20	44		movement East
			e		21	43		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
10 Contd.	MADRAS Contd.	E	e	19	21	53		
			e		22	05		
			e		22	15		
			e		22	33		
	DEHRA DUN	N,E	eP	19	21	29		Feeble, phases
			iS		28	19		not clear
10	POONA	Z	iP	19	21	30		Feeble
10	TOCKLAI	E	eP	19	24	55		Slight,distant
	SHILLONG	Z	i	19	25	06		
10	SHILLONG	Z	iP	19	59	49		Tremor
10	SHILLONG	Z	eP	22	25	11		
11	SHILLONG	Z	eP	01	36	38		Feeble,local
11	TOCKLAI	E	eP	11	01	54		Slight,distant
			i		03	58		
11	SHILLONG	Z	eP	11	02	32		Slight,distant
	CHATRA	Z	iP	11	03	56	1610	Slight
		E	iS		06	39		
11	TOCKLAI	E	eP	19	41	44		Slight,distant
			i		42	38		
	SHILLONG	Z	iP	19	42	06		Slight,distant. Rarefaction
	Chatra	Z	iP	19	42	48	1630	Slight
		E	iS		45	32		
11	Epc: 17½°S, 169°E. New Hebrides Islands. ○ H ≥ 21h 38m 05s G.M.T. (U.S.C.G.S) Magnitude ≥ 6¾ (Pasadena).							
	SHILLONG	Z,E	eP	21	50	52		Moderate
11	COLOMBO	E	e(S)	22	01	49		
			L		30	31		
			M		34	36		Amp≥ 0.4 mm
	DEHRA DUN	N,E	e	22	02	35		Feeble,Phases not clear
	BOMBAY	E	e	22	02	41		Very slight
		N	e		03	44		
12	SHILLONG	Z	iP	05	40	05		Slight,local
12	DEHRA DUN	N,E	e	05	49	04		Tremor
12	SHILLONG	Z	iP	07	15	49		Slight,distant Compression
12	SHILLONG	Z	eP	08	07	53		Tremor
12	SHILLONG	Z	iP	08	41	38		Slight,distant Compression
12	SHILLONG	Z	eP	14	09	48		Slight,distant
12	SHILLONG	Z	eP	17	34	24		
12	DEHRA DUN	N,E	e	21	45	04		Tremor
12	SHILLONG	Z	iP	21	46	29		Slight,distant Rarefaction
13	TOCKLAI	E	iP	10	24	58		Slight. First
			i		26	01		movement West.
	SHILLONG	Z,E	iP	10	25	25	830	Slight.
		E	Lq		26	35		Compression
			iS		26	45		
			Lr		26	55		
			SS		26	58		
			SSS		27	11		
			M		27	31		
	CHATRA	Z	i	10	26	18		Slight,distant.
13	SHILLONG	Z	eP	12	42	23		Slight,distant
13	SHILLONG	Z	eP	12	12	22		Slight,distant
13	SHILLONG	Z	eP	14	05	55		Slight,distant.

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMAKRS
August 1957								
13	SHILLONG	Z	eP	15	56	45		Slight,distant
13	SHILLONG	Z	eP	21	26	51		Slight,distant
13	SHILLONG	Z	iP	21	46	30		Slight,distant Rarefaction
14	SHILLONG	Z	eP	17	32	44		Tremor
14	SHILLONG	Z	eP	19	39	40		Tremor
15	SHILLONG	Z	iP	07	45	33		Slight,distant Compression
	TOCKLAI	E	e	07	45	50		Slight,distant
	TOCKLAI	E	eP	11	52	30		Slight,distant
			i		52	34		
	SHILLONG	Z	eP	11	52	33		Slight,distant
15	SHILLONG	Z	iP	14	21	23		Tremor
15	TOCKLAI	E	eP	15	26	14		Slight, near.
	SHILLONG	Z	iP	15	26	31		Slight, near Rarefaction
15	DEHRA DUN	N,E	e	15	39	37		Tremor
15	SHILLONG	Z	eP	20	31	50		Slight, near.
15	Epc: 4½°S, 155°E. Solomon Islands Region. h ≥ about 500 kms. ○ H ≥ 20h 45m 20s G.M.T.(USCGS)							
	TOCKLAI	E	eP	20	55	26	6660	Slight
			iS	21	03	36		
15	SHILLONG	Z,E	iP	20	55	35	7060	Slight.
			iS	21	03	58		Rarefaction
	CHATRA	Z	iP	20	55	56	7310	Slight
		E	iS	21	04	42		
	BOKARO	E	eP	20	56	04	7370	Moderate
		N,E	iS	21	04	53		
	POONA	Z	iP	20	56	58	8350	Slight
		E	eS	21	06	37		
	DEHRA DUN	N,E	e	21	17	41		Feeble. Phases
			i		18	41		not clear
15	SHILLONG	Z	eP	21	19	53		
16	DEHRA DUN	N,E	e	02	29	22		Feeble. Phases not clear.
16	SHILLONG	Z,E	iP	03	37	06		Slight,distant
16	SHILLONG	Z	eP	04	31	22		Feeble, near. Compression.
16	CHATRA	Z	iP	05	18	41	120	Slight
		E	iS		18	57		
	SHILLONG	Z,E	eP	05	19	29	530	Slight
		Z	PP		19	35		
			PPP		19	42		
			Pg		19	50		
			eS		20	26		
16	SHILLONG	Z	iP	11	36	55		Feeble,local
16	Epc: 5°S, 155°E. New Britain Region. Felt Rabaul, Namatanai, Loudolovit and Karoola. ○ H ≥ 11h 57m 16s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	12	08	15		Slight Compression.
	CHATRA	Z	i	12	08	37		Feeble
	DEHRA DUN	N,E	e(P)	12	09	43		Feeble, phases
			i(S)		20	17		not clear.
16	SHILLONG	Z	iP	14	59	17		Tremor
16	SHILLONG	Z	eP	16	36	24		Feeble, near
16	SHILLONG	Z	iP	21	02	45		Slight,distant Rarefaction
	Epc: 10½°N, 104°W. Pacific Ocean ○ H ≥ 23h 31m 55s (U.S.C.G.S) Magnitude ≥ 6½-6¾ (Pasadena),(Berkeley).							

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
16 Contd.	SHILLONG	Z,N	iPKP	23	51	28		
	BOKARO	N,E	ePKP	23	51	36		
	POONA	Z	PKP_1	23	51	43	16560	Slight
			PP		55	13		
		N	PPP		58	55		
			$SKKS_1$	00	02	18		
			SS		14	02		
			SSS		28	49		
	CALCUTTA	E	e	23	53	04		Slight
			i	00	05	46		
			i		15	05		
	BOMBAY	E	e	23	53	46		Slight, phases
		N	e		54	54		not clear due
		N,E	e	00	14	50		to microseisms
		E	e		20	30		
			M		58	38		Per.≥23 secs
								μ : ≥10
	COLOMBO	E	e	23	54	09		
			e	00	06	31		
			M	01	02	36		Amp.≥1.0 mm
	DEHRA DUN	N,E	e	23	54	54		Slight, phases not clear
	KODAIKANAL	E	e(?)	00	52	25		Tremor
17	SHILLONG	Z	iP	02	32	28		Slight, distant Compression
17	SHILLONG	Z	iP	03	06	04		
17	CHATRA	Z	e	08	25	56		Feeble, distant
17	DEHRA DUN	N,E	e	08	31	48		Tremor
17	SHILLONG	Z	eP	09	25	26		Slight, distant
17	SHILLONG	Z	iP	13	18	03		Slight, distant Compression
17	SHILLONG	Z	iP	13	30	47		Feeble, near Rarefaction
17	SHILLONG	Z	eP	13	47	31		Slight, distant
17	SHILLONG	Z	i	13	53	01		
17	SHILLONG	Z	eP	16	54	29		Slight, distant
17	SHILLONG	Z	iP	21	04	37		Slight, distant Rarefaction
17	SHILLONG	Z	iP	21	32	27		Feeble, local
17	SHILLONG	Z	eP	23	04	52		Feeble, near.
18	Epc: 12°N, 124°E. Philippine Islands. ∘ H ≥ 08h 36m 57s (U.S.C.G.S)							
	TOCKLAI	E	eP	08	43	27		Slight
	SHILLONG	Z,E	iP	08	43	33	3630	Moderate.
		E	PP		44	45		Rarefaction.
			PPP		44	56		
			PcP		46	14		
		N,E	iS		48	49		
		E	Lq		49	43		
			SS		49	47		
			SSS		49	56		
			ScS		52	50		
			M		55	02		
	CHATRA	Z	iP	08	44	12		Slight
		E	i		55	15		
	BOKARO	N,E	iP	08	44	23	4190	Moderate
		N	PP		45	51		
			iS		50	14		
			Lq		52	57		
			Lr		55	12		
			M		58	15		Per.≥23 secs
								μ : ≥22

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
18 Contd.	MADRAS	E	iP	08	45	00	5080	Moderate. First movement West
			PcP		46	18		
			PP		46	46		
			PPP		47	36		
			ScP		50	00		
			eS		51	43		
			PS		51	48		
			PPS		51	58		
			ScS		54	22		
			SS		55	04		
			Lq		56	19		
			SSS		56	30		
			Lr		58	26		
			M	09	02	14		
	COLOMBO	E	P	08	45	06	4750	
			S		51	31		
			L		58	51		
			M	09	08	06		Amp.≥1.8 mm
	HYDERABAD	N	PPP	08	47	27		
			S		51	53		
			PPS		52	20		
			ScS		53	12		
			SS		55	49		
			SSS		58	38		
			Lq		59	20		
			Lr	09	01	46		
			M		07	12		Per.≥18 secs
								μ : ≥19
	KODAIKANAL	E	eP	08	45	25	5170	Slight
			PP		46	10		
			PcS		50	42		
			iS		52	13		
			PPS		52	34		
			SS		55	16		
			Lq		56	10		
			Lr		58	25		
			M	09	02	20		Per.≥20 secs
								μ : ≥16
	DEHRA DUN	N,E	eP	08	45	27	5030	Moderate
		N	iS		52	08		
			SS		55	36		
			Lr		58	27		
			M	09	02	16		
	POONA	Z	iP	08	45	44	5510	Moderate
		N	PP		47	39		
			PcS		50	57		
		N,E	eS		52	52		
		N	PPS		53	16		
			ScS		55	44	SSS	08 57 44
			Lr		59	42		
			M	09	05	01		
			Mn		10	∘∘		Per.≥19 secs
								μ : ≥12
	BOMBAY	E	eP	08	45	55	5520	Slight
		N,E	PP		47	51		
		E	PPP		48	39		
			PcS		51	18		
		N,E	eS		53	04		
			e		53	42		
		E	i		54	05		
		N	e		54	29		
		E	i		54	37		
			SS		56	40		
			SSS		57	39		
			Lr	09	00	40		
			M		12	43		Per.≥17 secs
								μ : ≥ 8
		N	M		14	28		Per.≥13 secs
								μ : ≥ 3
18	SHILLONG	Z	eP	16	11	17		Tremor
18	SHILLONG	Z	eP	19	30	06		Feeble, near.
18	SHILLONG	Z	eP	21	31	05		Slight, distant
18	POONA	Z	iP	21	31	12		Tremor
18	Epc: 50°N, 157°E. Northern Kurile Islands. ∘ H ≥ 21h 42m 30s G.M.T. (U.S.C.G.S) Magnitude: ≥ 6½ (Pas), 6¼-6½ (Berkeley)							
	TOCKLAI	E	e	21	51	48		Slight

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
August 1957						
18 Contd.	SHILLONG	Z,E	iP	21 52 01	5960	Slight
		N,E	eS	59 33		Compression
			M	22 12 43		Per. ±20 secs
						μ ±17
	CHATRA	Z	iP	21 52 16		Slight
		E	i	22 02 00		
	CALCUTTA	E	iP	21 52 33	6450	Slight. First
			iS	22 00 33		movement West
			SSS	07 34		
	BOKARO	N,E	iP	21 52 39	6400	Moderate. First
		N	PP	54 54		movement South
			eS	22 00 43		and West
			i	02 22		
			M	15 15		Per. ±26 secs
						μ ±19
	DEHRA DUN	N,E	eP	21 52 40	6470	Slight
		N	iS	22 00 41		
			PPS	01 15		
			M	14 36		
	POONA	Z	iP	21 53 51	7750	Moderate
		N	PcP	54 21		
			eS	22 03 00		
			PS	03 19		
			SKS_1	03 51		
			SS	07 32		
			Lr	11 35		
			Mn	28 --		Per. ±19 secs
						μ ±32
	BOMBAY	N,E	eP	21 53 53	8670	Slight
		N	e	22 03 09		
		E	eS	03 47		
			PS	04 15		
			SS	08 25		
		N	M	22 29		Per. ±21 secs
						μ ±15
		E	M	28 05		Per. ±19 secs
						μ ±12
	COLOMBO	E	P	21 54 21	8380	
			S	22 04 01		
			L	21 06		
			M	33 01		Amp. ±0.7 mm
19	DEHRA DUN	N,E	e	07 27 52		Feeble
			i	32 50		
	CHATRA	Z	iP	07 29 05		Slight
			i	29 20		
	SHILLONG	Z	iP	07 29 43		Slight, distant Rarefaction
19	SHILLONG	Z	eP	10 39 13		Slight, distant
19	COLOMBO	E	P	11 45 51		
			e	57 21		
	SHILLONG	Z	eP	11 46 25		Tremor
19	DEHRA DUN	N,E	e	11 58 22		Feeble
19	SHILLONG	Z	e	15 14 25		
19	SHILLONG	Z	iP	21 43 39		Slight, distant Rarefaction
19	SHILLONG	Z	eP	21 50 58		Feeble, near.
20	CHATRA	Z,E	iP	00 45 06	70	Slight
		E	iS	45 15		
	SHILLONG	Z	e	00 46 28		
20	DEHRA DUN	N,E	e	01 52 07		Feeble, phases
			i	53 35		not clear
20	SHILLONG	Z	iP	03 57 33		Slight, distant Compression
20	SHILLONG	Z	iP	04 06 31		Slight, distant Compression
20	BOMBAY	E	e	06 45 34		Feeble, phases
		N	e	50 15		lost in
		E	e	50 51		Microseisms
		N,E	e	51 17		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
August 1957						
20 Contd.	COLOMBO	E	e	06 49 50		
	DEHRA DUN	N,E	e	06 50 50		Feeble, phases not clear
20	SHILLONG	Z	eP	12 08 08		
	COLOMBO	E	e	12 16 02		
			e	24 40		
	BOMBAY	E	e	12 25 37		Feeble, phases
		N	e	25 57		lost in Microseism
	DEHRA DUN	N,E	e	12 25 38		Feeble, phases not clear
20	Epc: 37°N, 71½°E, Hindukush. Felt: Peswar - H. ± 15h 21m 06s G.M.T. (U.S.C.G.S) Felt: Srinagar					
	DEHRA DUN	N,E	eP	15 23 09	900	Slight
		N	iS	24 42		
			SS	24 52		
			Lr	24 55		
			SSS	25 05		
			Sg/M	25 30		
	CHATRA	Z	iP	15 24 51	1850	Slight
		N,E	iS	27 56		
	POONA	Z	iP	15 25 07	2030	Slight
		E	iS	28 29		
			SS	28 45		
			SSS	28 58		
			Lr	29 12		
			M	30 42		
	SHILLONG	Z,N,E	iP	15 25 35	2430	Moderate
			PP	25 57		Rarefaction
			PPP	26 06		First movement
			eP	26 41		West. Probable
		N,E	iS	29 15		depth ± 200 km
			SS	30 07		
			eS	30 26		
	TOCKLAI	E	eP	15 25 47		Slight
20	CHATRA	Z	i	22 37 31		Feeble, distant
21	SHILLONG	Z	iP	08 20 32		Slight, distant Compression
21	SHILLONG	Z	iP	12 02 58		Tremor
21	SHILLONG	Z	iP	15 42 34		Slight, distant Rarefaction
21	CHATRA	Z	i	15 42 59		Feeble
21	SHILLONG	Z	iP	16 58 41		Feeble, local
21	SHILLONG	Z	iP	19 18 24		Slight, near
21	SHILLONG	Z	iP	19 42 46		Tremor
22	SHILLONG	Z	iP	03 46 05		Slight, distant Compression
22	SHILLONG	Z,N,E	iPg	03 54 33	90	Slight.
		N,E	iSg	54 44		Rarefaction
						Felt at: Shillong Gauhati and Mangaldai (Press Report)
	CHATRA	Z	iP	03 55 34	590	Slight
			iS	56 36		
22	Epc: 1°N, 126°E. Molucca Passage - H. ± 07h 55m 06s G.M.T. (U.S.C.G.S)					
	SHILLONG	Z,E	iP	08 02 55		Slight Compression
	CHATRA	Z	eP	08 03 29		Feeble
	DEHRA DUN	N,E	eP	08 04 37		Feeble
			i	14 19		
22	SHILLONG	Z,E	iP	15 34 49		Slight, distant Rarefaction

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
22	SHILLONG	Z	iP	16	56	09		Slight,
		N,E	i	17	06	26		compression
22	SHILLONG	Z	eP	18	30	18		Tremor
	DEHRA DUN	N,E	e	18	33	19		Tremor
22	CHATRA	Z	iPg	21	47	47	90	Feeble
			iSg		47	59		
22	CHATRA	Z	iPg	22	18	46	70	Feeble
			iSg		18	56		
23	Epc: 6°S, 154½°E. New Britain after shock. Felt: Rabaul, Kokopo, Namatani, Sohano, Londlooovit and Arepa. - H = 02h 00m 05s G.M.T. (U.S.C.G.S) Magnitude = 6½ (Pasadena).							
	SHILLONG	Z,E	iP	02	11	06	7370	Slight, first
		E	eS		19	55		movement West
	CHATRA	Z	eP	02	11	36	8000	Slight
		E	iS		20	57		
	COLOMBO	E	P	02	11	52		
			e		22	02		
			e		34	--		
	POONA	Z	eP	02	12	31	8910	Slight
		N	eS		22	36		
			PS		23	16		
			M		43	27		
23	HYDERABAD	N	eP	02	13	33		
			e		17	03		
			e		18	24		
			i		21	51		
			e		22	36		
			e		23	25		
			e		26	33		
			e		29	09		
			e		32	48		
			M		38	00		Per. ±12 secs μ = 3
	BOMBAY	E	eP	02	12	33	9130	Slight
			PP		16	13		
			PPP		17	47		
		N,E	eS		22	48		
			PS		23	26		
		E	PPS		23	43		
			SS		27	32		
	DEHRA DUN	N,E	eP	02	12	33	9490	Slight
		N	iS		23	04		
			PS		23	53		
23	SHILLONG	Z	iP	02	43	16		Slight, distant Compression
23	SHILLONG	Z	eP	04	28	52		Feeble, local
23	CHATRA	Z	iP	04	32	25	60	Slight
		N,E,Z	iS		32	33		
23	CHATRA	Z	iP	08	46	09	100	Slight
			iS		46	22		
23	Epc: 24°N, 122°E. Off the Coast of Formosa. Felt: Moderate damage in Taipeh. H = 11h 42m 34s (U.S.C.G.S).							
	SHILLONG	Z,E	iP	11	48	31 S		Slight, rarefaction
	CHATRA	Z	eP	11	48	54		Slight
	TOCKLAI	E	eP	11	49	01		Slight
	DEHRA DUN	N,E	e	11	50	08		Tremor
			e		56	01		
			e	12	06	38		
			i		07	01		
23	SHILLONG	Z	eP	13	43	58		Slight, distant
23	SHILLONG	Z	eP	16	22	39		
23	Epc: 7°S, 112°E. Java. H = 22h 51m 10s (U.S.C.G.S).							
	SHILLONG	Z,E	iP	22	58	35	4220	Slight, Compression. First movement West.
		E	eS	23	04	26		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
23 Contd.	CHATRA	Z	iP	22	58	46		Feeble
	DEHRA DUN	N,E	eP	22	59	59		Feeble
			e	23	10	37		
	COLOMBO	E	e	23	07	20		Strong microseism present
			e		22	30		Amp. ±0.5 mm
24	SHILLONG	Z	eP	00	12	37		Feeble, near.
24	CHATRA	Z	iP	04	29	03	120	Slight
		N,E,Z	iS		29	19		
24	SHILLONG	Z	ePg	04	29	41		Feeble, near
24	TOCKLAI	E	e	15	45	43		Slight, distant
	SHILLONG	Z	eP	15	45	59		Slight, distant Compression
	CHATRA	Z	eP	15	46	35		Slight
			i		48	13		
24	SHILLONG	Z	ePg	18	31	05		Feeble, near
24	DEHRA DUN	N,E	e	23	18	20		Tremor
25	SHILLONG	Z,E	iPg	03	32	46	120	Feeble
			eSg		33	00		
25	SHILLONG	Z	iP	11	32	01		Slight, near Compression.
25	SHILLONG	Z	iPg	13	03	07	110	Feeble
		Z,E	eSg		03	20		
25	SHILLONG	Z	iP	13	55	25		Feeble, local
25	SHILLONG	Z	iP	17	48	50		Slight, distant Compression
25	TOCKLAI	E	e	19	14	47(?)		Slight, distant
25	CHATRA	Z	iP	20	15	07	190	Slight
	SHILLONG	Z	ePg	20	15	20	330	Feeble.
			ePPP		15	23		
			Lq		15	35		
			Lr		15	43		
			eS		15	46		
		Z,E	Sg		15	58		
25	Epc: 22°N, 80°E. Satpura Mountains. - H = 21h 04m 50s G.M.T.(Shillong) Felt: Nagpur, Mandla, Gondia, Umaria and Jabalpur. Magnitude = 5½ (Shillong).							
	POONA	Z	eP	21	06	34	740	Slight
		E	eS		07	51		
		Z	M		08	20		
	BOKARO	N,E	eP	21	06	38		Slight
		E	e		06	42		
			e		07	22		
			e		07	33		
			e		07	44		
			e		07	47		
			e		07	52		
			S		08	00		
	VIZIANAGRAM	N	eP	21	06	39		Slight
			i		07	49		
	CHATRA	Z	iP	21	06	49	780	Slight
		E	iS		08	10		
	DEHRA DUN	N,E	eP	21	06	51	780	Slight
		N	iS		08	12		
			SS		08	26		
			SSS		08	38		
			Sg/M		09	00		
	BOMBAY	E	e	21	07	05		Very slight.
			eS		08	00		Strong Microseisms
			M					present
	SHILLONG	Z	eP	21	07	35	1220	Slight
			ePP		07	43		
			ePPP		07	52		
		Z,N,E	iS		09	40		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
25	MADRAS	E	e	21	07	47		Slight
			e		08	52		
			e		09	50		
			i(Sg)		09	58		
			e		10	09		
			e		10	24		
			e		11	19		
25	SHILLONG	Z,E	iP	21	19	24		Slight;distant Rarefaction. First movement East.
		E	eS		22	04		
	POONA	Z	e	21	20	11		Tremor
26	DEHRA DUN	N,E	e	03	36	27		Tremor
26	SHILLONG	Z,E	iP	07	05	04		Slight,distant Rarefaction
26	Epc: 19°S, 63°W. Southern Bolivia. H = 11h 28m 50s (U.S.C.G.S) Magnitude = 6¼-6½ (Pas), 6¾ (Berk).							
	POONA	Z	ePKP1	11	48	15	16970	Slight
		E	PP		52	06		
			SKKKS2	12	00	18		
			SS		12	10		
			SSP		13	02		
	DEHRA DUN	N,E	ePKP	11	48	30		Slight,phases
			i		51	48		not clear.
			e		58	33		
	MADRAS	E	ePKP	11	48	31		
			e	12	48	19		
	HYDERABAD	E	ePKP	11	48	31		
		N	M	12	49	11		Per.=18 secs μ =20
		E	M		49	17		Per.=18 secs μ =13
	CHATRA	Z	iPKP[?]	11	48	42		Slight
		E	ePKP[?]					
	SHILLONG	Z,E	iPKP	11	48	51		Moderate. Compression
	BOMBAY	E	e	11	52	01		Slight,earlier phases lost in microseism.
		N	M	12	47	22		Per.=19 secs μ = 2
		E	M		47	52		Per.=21 secs μ =11
	COLOMBO	E	e	11	52	10		
			M	12	51	00		Amp.=2.4 mm
	KODAIKANAL	E	e	12	39	20		Tremor
26	SHILLONG	E	i	11	53	06		
26	Epc: 12°S, 81°W. Near Coast of Ecuador Felt: Western Ecuador. H=13h 58m 48s (U.S.C.G.S) Magnitude = 6 (Pas).							
	DEHRA DUN	N,E	ePKP	14	18	29		Slight
			e		32	01		
			e		40	45		
	CHATRA	Z	ePKP	14	18	37		Slight
	POONA	Z	ePKP1	14	18	37	16970	Slight
		E	PP		22	28		
			SKS2		24	22		
			PP2		33	57		
	SHILLONG	Z	ePKP	14	18	43		Moderate
	BOMBAY	E	e	14	19	27		Slight.Phases
			e		35	37		unidentifiable due to microseisms.
		N	M	15	32	32		Per.=19 secs μ = 2
		E	M		32	44		Per.=19 secs μ = 8
	COLOMBO	E	e	14	23	05		
			L	15	16	50		
			M		29	02		Amp.=1.4 mm

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
August 1957								
26 Cont.	HYDERABAD	E	M	15	21	28		Per.=19 secs μ = 16
		N	M		22	21		Per.=18 secs μ = 10
	KODAIKANAL	E	e	15	21	51		Tremor
26	MADRAS	E	e	15	28	59		
			e		36	00		
26	SHILLONG	Z	iP	15	43	37		Tremor
26	SHILLONG	Z	iP	17	46	34		Tremor
26	SHILLONG	Z	eP	19	07	33		Feeble, near
26	SHILLONG	Z,E	iP	20	04	27		Slight,distant Compression
26	SHILLONG	E	i	20	13	21		
	DEHRA DUN	N,E	e	20	15	43		Tremor
27	CHATRA	Z	iP	13	41	57	70	Slight
		E	iS		42	07		
27	TOCKLAI	E	e	19	06	19		Slight
	SHILLONG	Z	iP	19	06	44	640	Slight,
			PP		06	51		Rarefaction
			P*		06	57		
			i		07	07		
			i		07	18		
		E	Lq		07	38		
		Z,E	S		07	52		
		Z	SS		08	01		
			S*		08	12		
			Sg		08	22		
	CHATRA	Z	iP	19	07	25	1070	Slight
		E	iS		09	15		
27	SHILLONG	Z	e	21	12	44		Tremor
27	SHILLONG	Z	i	21	13	06		Tremor
28	SHILLONG	Z	iPg	00	28	36	130	Feeble.
			iSg		29	54		Compression
28	SHILLONG	Z	eP	09	46	39		Tremor
28	SHILLONG	Z	eP	12	00	31		Tremor
28	SHILLONG	Z,E	iPg	12	03	35	110	Slight,
		E	iSg		03	49		rarefaction
	TOCKLAI	E	e	13	03	59		Slight
			i		04	04		
	CHATRA	Z	iP	13	04	38	600	Slight
			iS		05	39		
28	SHILLONG	Z	iP	14	16	31	180	Feeble
			iS		16	52		
28	SHILLONG	Z,N,E	iP	17	18	00		Feeble,local
28	SHILLONG	Z	e	21	18	18		
28	SHILLONG	Z	iP	22	21	09		Slight,distant Rarefaction
28	SHILLONG	Z	eP	22	26	00		Tremor
28	CHATRA	Z	i	23	21	40		Feeble,very near
28	Epc: 21°N, 145°E. Mariana Islands H = 23h 22m 21s (U.S.C.G.S)							
	SHILLONG	Z	eP	23	31	11		Slight
		E	i		33	06		
	CHATRA	Z	iP	23	31	40		Feeble
	BOMBAY	E	e	23	33	26		Very slight
			e		42	37		
	DEHRA DUN	N,E	e	23	41	18		Feeble,Phases not clear
28	SHILLONG	Z,E	e	23	59	02		Slight,distant
	CHATRA	Z	e	23	59	34		Feeble;distant
29	SHILLONG	Z	eP	01	06	34		Tremor

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
August 1957						
29	SHILLONG	Z	i	13 06 54		Tremor
29	SHILLONG	Z	iP	13 12 09	280	Feeble
			P*	12 11		Compression
			PP	12 15		
			Pg	12 17		
			PPP	12 22		
			iS	13 11		
			S*	13 15		
		Z,E	Sg	13 18		
29	CHATRA	Z	i	13 13 04		Feeble,near
29	CHATRA	Z	iP	13 14 05	360	Feeble
			iS	14 45		
29	SHILLONG	Z,N,E	eP	13 29 31	190	Slight
		Z,E	iPg	29 33		Rarefaction
		N,E	PP	29 40		Mag: 3.4
			PPP	29 47		
			Lr	29 52		
			iS	29 56		
			SS	30 07		
			SSS	30 15		
29	TOCKLAI	E	eP	13 29 45		Slight,near
	CHATRA	Z	eP	13 30 30	660	Slight
			iS	31 39		
29	SHILLONG	Z	i	15 25 26		Tremor
29	SHILLONG	Z	e	15 53 25		Tremor
29	SHILLONG	Z	i	15 55 06		Tremor
30	SHILLONG	Z	iP	00 03 15		Slight,distant rarefaction
30	SHILLONG	Z	iP	04 52 09	220	Slight, rarefaction
			P*	52 10		
			Pg	52 12		
			PP	52 17		
			PPP	52 27		
			iS	52 32		
			S*	52 34		
			Sg	52 36		
			SS	52 42		
			SSS	52 53		
30	SHILLONG	Z	i	12 20 24		Tremor.
30	Epc: 39°N, 73°E. Tadshik S.S.R. H = 16h 17m 56s (U.S.C.G.S)					
	DEHRA DUN	N,E	eP	16 20 23	1050	Slight
		N	PP	20 34		
			iS	22 11		
			SS	22 23		
			Lr	22 27		
			SSS	22 35		
			Sg/M	23 16		
	CHATRA	Z	iP }	16 21 58		Slight
		E	eP }			
			i	28 26		
	BOKARO	N,E	eP	16 22 20	2120	Slight
		N	PP	22 35		
			PPP	22 50		
		E	eS	25 50		
			Lq	25 57		
		N	SS	26 11		
			SSS	26 29		
			Lr	26 48		
			M	28 31		
	POONA	Z	iP	16 22 40	2010	Slight
		E	PP	22 50		
			PPP	23 01		
			eS	26 00		
			SSS	26 27		
			Lr	26 50		
			PcP	27 05		
			M	28 38		
			PcS	30 40		
	SHILLONG	Z,N,E	iP	16 22 42	2330	Slight
		E	PP	23 04		Compression
			PPP	23 17		First movement
		N,E	eS	26 36		South and East
		E	Lq	26 48		Probably follo-
			SS	27 05		wed by another
			SSS	27 17		shock after
			Lr	27 31		4 seconds
			M	29 26		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
August 1957						
30 Contd.	BOMBAY	N,E	eP	16 22 44	2300	Slight
		E	PP	22 50		
			PPP	23 05		
		N,E	eS	26 31		
		E	Lq	26 38		
			SS	27 02		
			SSS	27 20		
			e	28 11		
			i	28 38		
			M	30 43		Per.=10 secs μ = 3
		N	M	30 44		Per.=10 secs μ = 9
	TOCKLAI	E	eP	16 22 51		Slight
	CALCUTTA	E	iP	16 22 56	2380	Slight.First
			PP	23 20		movement East
			iS	26 50		
			SS	27 27		
			Lr	28 07		
			M	29 52		
	HYDERABAD	N	iP	16 22 56	2620	Moderate.First
			PP	23 38		movement South
			i	27 08		
			e	27 49		
			e	28 22		
			e	28 49		
			e	29 34		
		N	M	31 27		Per.=12 secs μ =19
		E	M	31 28		Per.=10 secs μ = 7
	VIZIANAGRAM	N	i	16 24 04		Slight
			i	30 30		
	MADRAS	E	e(S)	16 27 41		
			e	32 14		
			e	34 30		
			e	36 44		
	KODAIKANAL	E	e(S)	16 29 51		Slight
			e	32 15		
			e	33 30		
			e	33 44		
			e	34 09		
			e	35 30		
	COLOMBO	E	e	16 31 05		
			e	35 15		
			e	38 10		
			e	40 25		Amp.=0.7 mm
30	SHILLONG	Z	iP	17 01 46		Slight,distant Rarefaction
30	Epc: 20½°N, 121½°E. Batan Islands Region H = 20h 04m 01s G.M.T (U.S.C.G.S)					
	SHILLONG	Z,E	eP	20 09 51	3100	Slight
		E	PP	10 40		
			PPP	10 55		
			eS	14 34		
	CALCUTTA	E	e	20 16 02		Slight
			e	17 51		
			i	24 39		
	BOMBAY	E	e	20 18 59		Very slight
	HYDERABAD	N	M	20 23 35		Per.=15 secs μ = 4
		E	M	23 38		Per.= 15 secs μ = 4
30	Epc: 26°N, 94½°E. H = 20h 23m 05s G.M.T (Shillong) Magnitude = 4½ (Shillong)					
	TOCKLAI	E	eP	20 23 45		Slight
			e	24 07		
	SHILLONG	Z,E	iP	20 23 47	230	Slight
		E	P*	23 49		Compression
		N,E	Pg	23 51		
		E	PP	23 53		
			PPP	23 59		
		N,E	eS	24 17		
		E	S*	24 18		
		N,E	Sg	24 20		
		E	SS	24 27		
		N,E	SSS	24 35		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
August 1957						
30 Contd.	CHATRA	Z	iP	20 24 46	750	Slight
		E	eS	26 04		
	DEHRA DUN	N,E	eS	20 29 28		Tremor
30	SHILLONG	Z	iP	21 04 08		Tremor
31	SHILLONG	Z	e	00 09 00		
31	SHILLONG	Z	i	00 09 07		
31	SHILLONG	Z	e	01 09 47		Tremor
31	DEHRA DUN	N,E	e	02 51 21		Tremor
31	Epc: 49°N, 100°E, Outer Mongolia H = 12h 01m 06s (U.S.C.G.S)					
	SHILLONG	Z,N,E	eP	12 06 23	2790	Slight
		E	iS	10 46		
			i	14 38		
	DEHRA DUN	N,E	eP	12 06 32	2830	Slight
			iS	10 57		
			i	14 55		
	BOMBAY	E	e	12 19 11		Feeble
		N,E	e	22 49		
	SHILLONG	Z	eP	13 01 04		Slight
	DEHRA DUN	N,E	e	13 04 06		Tremor
	BOKARO	N,E	e	13 11 33		Slight
	TOCKLAI	E	eP	13 46 13		Moderate, near.
	SHILLONG	Z,N,E	eP	13 46 13	150	Moderate, felt Magnitude 4.5
	CHATRA	Z	iP	13 46 57		Slight
		E	i	48 25		
31	DEHRA DUN	N,E	e	14 51 00		Tremor

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Earthquake Reports

(Non Instrumental Reports)

The following table contains a list of earthquake that were reported by Voluntary Observers from various stations

PLACE AT WHICH FELT	DATE IN G. M. T August 1957	TIME IN G. M. T h. m.	DURATION IN SECS.	INTENSITY IN R.F. SCALE	NO. OF SHOCKS	REMARKS
SRINAGAR	20	20 52	30	IV	2	
GONDIA	25	21 24	15	V	3	Direction S-W.
MANDLA	25	21 10	2	V	1	
JABALPUR	25	21 00	3	V	1	
UMARIA	25	20 50	2	V	1	
TEJPUR	31	13 46	5	IV	1	

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MICROSEISMIC TABULATION

Station: SHILLONG *Component E-W.* *Month: August, 1957.*

DATE	HOUR G.M.T.	K	MEAN AMPLITUDE m.m	MEAN PERIOD Sec.	DATE	HOUR G.M.T.	K	MEAN AMPLITUDE m.m	MEAN PERIOD Sec.	DATE	HOUR G.M.T.	K	MEAN AMPLITUDE m.m	MEAN PERIOD Sec.	DATE	HOUR G.M.T.	K	MEAN AMPLITUDE m.m	MEAN PERIOD Sec.
01	00	1	0.5	5.0	14	00	3	0.5	5.4	26	04	3	0.6	5.5	08	00	22	2.1	2.6
	06	3	0.5	4.8		06	3	0.5	5.0	Cont'd	05	3	0.6	5.0		06	2	2.1	2.9
	12	3	0.4	4.8		12	3	0.4	5.6		06	3	0.6	5.5		12	"	"	"
	18	3	0.4	6.0		18	3	0.4	5.4		07	3	0.5	6.0		18	"	"	"
											08	3	0.5	5.0					
02	00	3	0.4	5.0	15	00	3	0.3	5.0		09	2	0.5	5.0	09	00	"	"	"
	06	3	0.5	5.2		06	3	0.5	4.5		10	3	0.6	5.0		06	"	"	"
	12	3	0.5	5.3		12	3	0.3	4.8		11	3	0.6	5.5		12	2	2.0	4.3
	18	3	0.7	5.7		18	3	0.3	4.6		12	...				18	2	1.9	4.1
											13	...							
03	00	3	0.7	5.7	16	00	3	0.3	5.0		14	3	0.5	5.5	10	00	2	1.6	3.2
	06	3	0.4	4.8		06	3	0.7	5.5		15	...				06	2	1.6	3.1
	12	3	0.5	4.8		12	...				16					12	2	1.5	3.1
	18	3	0.6	5.0		18	3	0.8	5.2		17	3	0.5	5.0		18	2	1.1	2.9
											18	3	0.5	5.0					
04	00	3	0.5	6.1	17	00	...				19	3	0.5	5.0	11	00	2	1.2	3.1
	06	3	5.1	5.6		06	3	0.8	4.8		20	...				06	2	1.1	3.7
	12	3	0.5	6.2		12	3	0.8	5.0		21	3	0.5	5.0		12	2	0.9	3.1
	18	3	0.5	5.9		18	3	0.7	5.0		22	3	0.5	5.0		18	2	1.3	2.7
											23	3	0.5	5.0					
05	00	3	0.5	5.3	18	00	3	0.8	6.5						12	00	"	"	"
	06	3	0.5	5.8		06	3	0.7	5.5	27	00	3	0.4	5.0		[illegible]	"	"	"
	12	3	0.5	5.6		12	3	0.8	5.0		06	1	0.5	5.0		02	"	"	"
	18	3	0.5	5.8		18	3	0.8	5.5		12	1	0.6	4.8		03	"	"	"
											18	1	0.7	4.2		04	"	"	"
06	00	3	0.5	5.0	19	00	3	0.8	5.0							05	"	"	"
	06	3	0.4	5.2		06	3	0.9	5.5	28	00	1	0.6	4.6		06	"	"	"
	12	3	0.5	4.8		12	3	1.0	6.5		06	2	0.6	5.1		07	"	"	"
	18	3	0.5	5.8		18	3	0.8	5.0		12	3	0.6	5.0		08	2	1.1	3.4
											18	3	0.6	4.8		09	2	1.2	3.2
07	00	3	0.4	4.9	20	00	1	1.0	5.5							10	2	1.2	3.3
	06	3	0.5	5.0		06	1	1.5	5.5	29	00	...				11	2	1.1	3.2
	12	3	0.5	4.9		12	1	1.5	6.0		06	"	"	"		12	2	1.1	3.0
	18	3	0.5	4.9		18	1	1.3	5.5		12	3	0.4	4.0		13	2	1.1	3.1
											18	3	0.5	4.0		14	2	1.1	3.1
08	00	3	0.4	5.3	21	00	1	1.3	5.5							15	2	0.9	2.9
	06	1	0.3	5.1		06	1	1.5	6.0	30	00	3	0.5	5.0		16	2	1.0	3.1
	12	1	0.4	5.3		12	1	1.5	5.5		06	3	0.5	5.0		17	2	1.0	3.0
	18	1	0.4	5.3		18	1	1.3	6.0		12	3	0.4	4.6		18	2	1.1	3.0
											18	3	0.2	4.0		19	2	1.1	3.0
09	00	1	0.5	5.3	22	00	1	1.1	5.0							20	2	1.1	2.9
	06	1	0.6	6.1		06	1	1.2	5.5	31	00	3	0.3	5.4		21	2	1.3	2.9
	12	1	0.6	6.0		12	3	1.0	5.0		06	1	0.3	4.2		22	2	1.4	3.0
	18	1	0.6	5.1		18	3	0.8	5.0		12	1	0.8	4.6		23	2	1.3	3.1
											18	1	0.4	4.6					
10	00	1	0.6	6.0	23	00	2	0.7	5.0						13	00	2	1.3	3.1
	06	1	0.6	5.6		06	3	0.7	5.0							06	2	1.3	3.2
	12	1	0.6	5.6		12	...				(Station: BOMBAY)					12	2	1.3	3.0
	18	1	0.5	5.6		18	3	0.6	5.0							18	2	1.1	3.2
11	00	1	0.5	5.0	24	00	...			01	00	2	1.7	3.1	14	00	"	"	"
	06	3	0.6	5.4		06	3	0.7	5.5		06	2	1.7	4.0		06	1	1.1	3.4
	12	3	0.6	6.0		12	3	0.5	5.5		12	2	2.1	3.5		12	1	1.5	3.0
	18	3	0.6	5.0		18	3	0.6	5.0		18	2	1.7	3.5		18	1	1.5	3.0
12	00	3	0.5	5.0	25	00	3	0.5	5.5	02	00	"	"	"	15	00	2	1.7	3.0
	01	3	0.6	5.3		01	3	0.6	5.0		06	"	"	"		06	2	1.5	3.1
	02	3	0.5	5.2		02	3	0.7	5.0		12	2	1.9	3.5		12	2	1.5	2.7
	03	3	0.5	5.3		03	3	0.7	5.0		18	2	1.5	4.0		18	2	1.5	2.7
	04	3	0.5	4.8		04	3	0.7	5.0										
	05	3	0.5	5.2		05	3	0.6	5.5	03	00	2	1.7	3.1	16	00	"	"	"
	06	3	0.5	5.2		06	3	0.5	5.0		06	2	2.3	4.1		06	2	1.1	3.3
	07	3	0.5	4.8		07	3	0.6	5.0		12	2	1.8	4.4		12	"	"	"
	08	3	0.5	5.0		08	3	0.5	5.0		18	2	1.6	4.3		18	2	1.7	3.7
	09	3	0.5	5.4		09	3	0.5	5.0										
	10	3	0.5	5.0		10	3	0.5	5.0	04	00	"	"	"	17	00	"	"	"
	11	3	0.6	5.4		11	3	0.5	5.0		06	2	1.7	3.4		06	2	1.5	3.8
	12	3	0.5	5.8		12	3	0.5	5.0		12	"	"	"		12	2	1.5	3.7
	13	3	0.5	5.0		13	3	0.5	5.0		18					18	2	1.3	3.6
	14	3	0.5	5.0		14	3	0.5	5.0										
	15	3	0.4	4.5		15	3	0.5	5.0	05	00	"	"	"	18	00	"	"	"
	16	3	0.5	4.2		16	3	0.5	5.0		06	"	"	"		06	2	1.5	3.9
	17	3	0.5	4.8		17	3	0.5	5.0		12	2	1.7	3.6		12	2	1.5	3.5
	18	3	0.5	4.5		18	3	0.5	5.5		18	2	1.9	2.8		18	2	1.7	4.1
	19	3	0.5	5.0		19	3	0.5	5.0										
	20	3	0.5	5.4		20	3	0.5	5.0	06	00	2	1.7	3.0	19	00	2	1.7	3.6
	21	3	0.5	5.2		21	3	0.4	5.0		06	2	1.9	3.4		06	2	2.0	3.9
	22	3	0.5	5.0		22	3	0.5	5.5		12	2	1.7	2.9		12	"	"	"
	23	3	0.6	4.8		23	3	0.5	5.0		18	2	1.9	2.6		18	1	2.1	3.9
13	00	3	0.5	5.0	26	00	3	0.5	5.5	07	00	2	1.5	2.4	20	00	1	2.5	3.4
	06	3	0.5	5.2		01	3	0.5	5.0		06	2	2.3	3.5		06	1	2.7	3.8
	12	3	0.5	5.4		02	3	0.5	5.0		12	2	"	"		12	1	2.9	4.2
	18	3	0.5	5.0		03	3	0.6	6.0		18	2	1.9	2.4		18	1	3.5	4.1

International Seismological Centre From the ISC collection scanned by SISMOS

MICROSEISMIC TABULATION FOR AUGUST 1957.

Station: BOMBAY. Compt: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
21	00	1	3.9	4.3
	06	1	4.1	4.0
	12		-	-
	18		-	-
22	00		-	-
	06		-	-
	12		-	-
	18		-	-
23	00		-	-
	06	1	2.5	4.6
	12	1	2.5	4.6
	18	1	2.5	4.5
24	00	1	2.9	5.1
	06	1	2.5	4.7
	12		-	-
	18	1	2.9	4.7
25	00	1	2.5	4.9
	01		-	-
	02		-	-
	03		-	-
	04		-	-
	05	1	2.3	4.9
	06	1	2.3	4.9
	07	1	2.7	4.5
	08	1	2.5	4.8
	09	1	2.5	5.0
	10	1	2.1	4.8
	11	1	2.3	4.5
	12	1	2.2	4.7
	13	1	2.1	4.7
	14	1	2.4	4.7
	15	1	2.5	4.6
	16	1	2.0	4.3
	17	1	2.3	4.8
	18	1	2.5	4.5
	19		-	-
	20	1	2.4	4.7
	21	1	2.3	4.7
	22	1	2.4	4.8
	23	1	2.1	4.8
26	00	1	2.2	4.9
	01	1	2.1	4.8
	02	1	2.1	4.5
	03	1	2.3	4.8
	04	1	2.3	4.7
	05	1	2.1	4.9
	06	1	2.0	4.8
	07	1	2.2	4.6
	08	1	1.9	4.4
	09	1	2.1	4.2
	10	1	2.3	4.7
	11	1	1.9	4.9
	12		-	-
	13		-	-
	14		-	-
	15		-	-
	16		-	-
	17	1	1.9	4.3
	18	1	1.9	4.3
	19	1	1.9	4.6
	20	1	2.3	4.6
	21	1	2.1	4.2
	22	1	2.3	4.5
	23	1	1.9	4.6
27	00		-	-
	06	2	1.9	5.0
	12	2	3.1	4.1
	18	2	1.6	4.6
28	00		-	-
	06	2	1.5	5.9
	12	2	1.5	4.2
	18	2	1.5	4.1
29	00	2	1.3	4.5
	06	2	1.4	4.0
	12	2	1.1	3.6
	18	2	1.2	3.8
30	00	2	1.1	3.4
	06	2	1.2	3.7
	12	2	0.7	3.7
	18		-	-
31	00		-	-
	06	2	0.9	3.6
	12	2	0.9	3.4
	18	2	0.9	3.4

Station: BOMBAY.
Storm type microseisms for the month of August 1957.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
19	00		-	-
	03		-	-
	06		-	-
	09		-	-
	12		-	-
	15	1	2.6	3.9
	18	1	2.1	3.9
	21	1	2.1	3.9
20	00	1	2.5	3.4
	03	1	2.9	3.5
	06	1	2.7	3.8
	09	1	3.1	3.7
	12	1	2.9	4.2
	15	1	2.9	4.3
	18	1	3.5	4.1
	21	1	3.7	4.1
21	00	1	3.9	4.3
	03	1	3.5	4.3
	06	1	4.1	4.0
	09		-	-
	12		-	-
	15		-	-
	18		-	-
	21		-	-
22	00		-	-
	03		-	-
	06		-	-
	09		-	-
	12		-	-
	15		-	-
	18		-	-
	21		-	-
23	00		-	-
	03		-	-
	06		-	-
	09		-	-
	12	1	2.5	4.6
	15	1	2.5	4.8
	18	1	2.5	4.5
	21	1	2.7	4.8
24	00	1	2.9	5.1
	03	1	2.9	5.1
	06	1	2.5	4.7
	09	1	3.1	5.0
	12		-	-
	15	1	2.7	4.9
	18	1	2.9	4.7
	21	1	2.9	4.8
25	00	1	2.5	4.9
	03		-	-
	06	1	2.3	4.9
	09	1	2.5	4.9
Contd.	12	1	2.2	4.7
	15	1	2.5	4.6
	18	1	2.5	4.5
	21	1	2.3	4.7
26	00	1	2.2	4.9
	03	1	2.3	4.8
	06	1	2.0	4.8
	09	1	2.1	4.2
	12		-	-
	15		-	-
	18	1	1.9	4.3
	21	1	2.1	4.2

Station: MADRAS

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
01	00	1	0.9	4.0
	03	3	0.9	4.6
	06	3	1.1	4.6
	12	3	1.0	4.4
	18	3	0.9	4.7
02	00	3	0.8	4.7
	03	3	0.9	4.5
	06	1	1.1	4.8
	12	1	1.1	4.9
	18	1	1.0	5.1
03	00	1	1.0	4.9
	03	1	1.1	4.9
	06	1	1.0	4.9
	12	1	1.1	4.8
	18	1	1.1	4.9
04	00	1	1.0	4.9
	03	1	0.9	4.7
	06	1	1.0	4.8
	12	1	1.0	5.0
	18	1	0.9	4.8
05	00	3	0.9	4.6
	03	1	1.0	4.8
	06	1	0.9	4.8
	12	1	0.9	4.4
	18	3	0.6	4.0
06	00	3	0.6	3.8
	03	3	0.5	3.5
	06	3	0.5	3.2
	12	3	0.6	3.6
	18	3	0.5	3.1
07	00	3	0.4	2.9
	03	3	0.5	3.2
	06	3	0.7	3.1
	12	1	0.9	3.4
	18	1	1.0	3.6
08	00	1	1.1	4.0
	03	1	1.4	3.2
	06	1	1.6	3.5
	12	1	2.2	4.2
	18	1	2.0	4.3
	21	1	1.7	4.2
09	00	1	1.5	4.2
	03	1	1.7	4.4
	06	1	1.6	4.5
	12	1	1.8	4.3
	18	1	1.5	4.9
	21	1	1.4	4.8
10	00	1	1.3	4.5
	03	1	1.5	4.9
	06	1	1.4	5.0
	12	1	1.3	4.9
	18	1	1.2	5.0
11	00	1	1.0	5.0
	03	1	0.9	5.1
	06	1	0.9	5.2
	12	1	0.7	4.9
	18	1	0.6	4.9
12	00	3	0.5	4.9
	01	3	0.5	5.0
	02	3	0.5	4.1
	03	3	0.5	4.4
	04	3	0.5	4.6
	05	3	0.5	4.5
	06	3	0.6	4.5
	07	3	0.6	4.7
	08	3	0.6	4.8
	09	3	0.6	4.6
	10	3	0.6	4.8
	11	3	0.5	4.7
	12	3	0.5	4.4
	13	3	0.6	4.6
	14	3	0.5	4.7
	15	3	0.5	4.5
	16	3	0.5	4.5
	17	3	0.5	4.5
	18	3	0.6	4.7
	19	3	0.6	4.5
	20	3	0.5	4.5
	21	3	0.5	4.5
	22	3	0.5	4.7
	23	3	0.4	4.3
13	00	3	0.4	3.8
	03	3	0.3	3.1
	06	1	0.7	2.7
	12	1	1.3	2.7
	18	1	1.0	2.8
	21	1	0.9	2.9
14	00	1	0.8	3.0
	03	...	No record	
	06	1	0.7	3.0
	12	1	0.7	3.0
	18	1	0.9	3.0
	21	1	0.7	3.1
15	00	3	0.7	3.0
	03	1	0.7	2.9
	06	1	0.6	2.9
	12	1	0.6	3.0
	18	1	0.5	3.0
16	00	3	0.5	2.9
	03	1	0.7	2.9
	06	1	0.9	2.8
	12	1	0.7	3.0
	18	1	0.7	3.0
17	00	3	0.7	3.1
	03	1	0.8	3.0
	06	3	0.8	3.6
	12	3	0.9	4.0
	18	3	0.9	4.1
18	00	3	0.9	4.0
	03	3	0.9	4.0
	06	3	0.9	3.5
	12	1	0.9	3.0
	18	1	0.9	3.1
19	00	1	1.5	2.9
	03	1	1.1	3.1
	06	1	1.1	3.3
	12	1	1.3	4.0
	18	1	1.3	4.2
	21	1	1.5	4.2
20	00	1	1.5	4.3
	03	1	1.9	4.4
	06	1	2.2	4.5
	12	1	2.7	4.6

International Seismological Centre From the ISC collection scanned by SISMOS

MICROSEISMIC TABULATION
August, 1957.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
Station MATHAS				
[illegible]	19	1	2.6	5.0
[illegible]	21	2	2.4	4.9
01	00	1	2.7	4.9
	03	1	2.5	4.9
	06	1	2.1	5.1
	12	1	3.4	4.8
	15	1	2.9	5.0
	21	1	2.8	4.8
02	00	1	2.5	4.9
	03	1	2.7	4.8
	06	1	2.3	4.7
	12	1	2.8	4.8
	18	1	2.9	4.9
04	00	1	1.9	5.1
	03	1	2.0	5.1
	06	1	2.1	4.9
	12	1	1.9	5.0
	18	1	2.6	5.0
	21	1	1.9	5.0
	00	1	1.9	4.9
	03	1	2.1	4.9
	06	1	1.9	5.0
	12	1	1.9	5.1
	18	1	2.2	5.0
	21	1	1.9	5.0
05	00	1	1.6	5.1
	01	1	1.6	5.1
	02	1	1.5	5.1
	03	1	1.5	5.1
	04	1	1.6	5.0
	05	1	1.5	5.0
	06	1	1.7	5.0
	07	1	1.6	5.1
	08	1	1.6	5.0
	09	1	1.6	5.0
	10	1	1.5	5.0
	11	1	1.6	5.0
	12	1	1.6	5.1
	15	1	1.6	5.0
	16	1	1.5	5.0
	18	1	1.7	5.0
	19	1	1.5	5.0
	20	1	1.7	5.1
	21	1	1.7	5.1
	22	1	1.6	5.0
	23	1	1.6	4.9
06	00	1	1.6	5.0
	01	1	1.5	5.1
	02	1	1.5	5.1
	03	1	1.5	4.9
	04	1		4.9
	05	1	1.4	5.0
	06	1	1.7	5.0
	07	1	1.4	5.0
	08	1	1.6	5.0
	09	1	1.6	5.0
	10	1	1.6	5.0
	11	1	1.9	4.9
	12	1	1.9	4.9
	13	...		
	14	1	1.5	4.8
	15	1	2.1	4.8
	16	1	1.8	4.9
	17	1	1.7	4.9
	18	1	1.2	4.9
	19	1	1.1	4.8
	20	1	1.9	4.9
	21	1	1.6	4.8
	22	3	1.1	4.8
	23	3	0.9	5.0
07	00	3	-	-
	03	1	-	-
	06	1	0.9	4.6
	12	1	0.8	4.9
	18	1	0.9	4.7
08	00	3	0.7	4.5
	03	3	0.7	4.2
	06	3	0.6	4.6
	12	3	0.6	4.4
	18	3	0.7	4.3
09	00	3	0.4	3.9
	03	3	0.4	3.9
	06	3	0.5	4.0
	12	3	0.4	3.7
	18	3	0.4	3.8
10	00	3	0.4	3.5
	03	3	0.5	3.7
	06	3	0.4	3.7
	12	3	0.4	3.2
	18	3	0.4	2.5
11	00	3	0.4	3.0
	03	...		
	06	1	0.4	2.5
	12	1	0.6	2.6
	18	1	0.5	3.0

Station COCHIN
Component : N.S.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
02	00	1	1.3	1.4
	06	1	1.7	1.5
03	06	1	1.8	1.5
	12	1	1.1	1.4
05	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
			1.3	4.3
06	00	...		
	03	1	0.8	1.4
	12	1	0.0	-
	18	1	0.0	-
07	00	3	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
08	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
09	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
10	00	1	0.0	-
	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
12	00	1	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	1	0.0	-
	04	3	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
12	08	1	0.0	-
Contd.	09	1	0.0	-
	10	3	0.0	-
	11	3	0.0	-
	12	3	0.0	-
	13	1	0.0	-
	14		0	
	15		0	
	16		0	
	17		0	
	18	1	0.0	-
	19	2	...	
	20		0	
	21		0	
	22		0	
	23		0	
13	00	3	0	
	06	3	0.0	-
14	05		0.0	-
15 to 16 no records.				
17	06	1	1.9	1.4
18 to 19 no records.				
20	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
21	06	1	0.0	-
	12	1	2.3	1.4
	18	1	0.0	-
22	00	1	2.2	1.5
	06	1	2.7	1.4
	12	1	2.7	1.5
	18	1	2.6	1.5
23	00	3	1.5	1.4
	06	3	3.5	1.4
	12	3	3.2	1.5
	18	1	4.2	1.5
24	00	1	4.0	1.5
	06	1	3.5	1.5
	12	1	2.8	1.5
	18	1	3.6	1.6
25	00	1	2.1	1.5
	01	1	2.0	1.6
	02	2	2.1	1.5
	03	1	2.8	1.4
	04	1	3.3	1.5
	05	1	3.7	1.4
	06	1	3.4	1.5
	07	1	3.1	1.5
	08	1	3.7	1.6
				1.6
	09	1	3.3	1.5
	10	1	2.1	1.4
	11	1	2.0	1.4
	12	1	2.0	1.4
	13	1	1.8	1.4
	14	1	2.2	1.4
	15	1	2.2	1.5
	16	1	2.2	1.5
	17	1	2.3	1.4
	18	1	1.9	1.5
	19	1	2.2	1.5
	20	1	2.3	1.5
	21	1	2.1	1.5
	22	1	1.6	1.4
	23	1	0.8	1.6
26	00	1	1.3	1.4
	01	1	1.3	1.4
	02	1	1.7	1.5
	03	1	1.3	1.4
	04	1	1.8	1.6
26	05	1	...	-
Contd.	06	1	1.3	1.4
	07	1	1.2	1.6
	08	1	1.2	1.4
	09	1	0.9	1.4
	10	1	0.6	1.4
	11	1	0.8	1.4
	12	1	0.5	1.4
	13	1	0.5	1.4
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	1	0.8	1.4
	21	1	0.8	1.4
	22	1	0.8	1.4
	23	1	0.0	-
27	00	1	0.0	-
	06	1	1.8	1.6
	12	1	0.0	-
	18	1	0.8	1.4
	23	1	0.8	1.4
29	06	1	0.0	-
31	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-

Station COCHIN
Component : E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
01	00	1	3.6	1.4
	06	3	1.8	1.6
03	06	1	1.3	1.6
	12	2	...	
05	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
06	00		...	
	06	1	1.3	1.5
	12	1	0.0	-
	18	1	0.0	-
07	00	3	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
08	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
09	06	3	0.0	-
	12		...	
	18		...	
10	00		...	
	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
11	00	1	0.0	-
	06	1	000	-
	12	1	0.0	-
	18	1	0.0	-
12	00		5.0	4.4
				5.0
	01		13.7	3.0
	02		...	
	03		...	

International Seismological Centre From the ISC collection scanned by SISMOS

MICROSEISMIC TABULATION

August, 1957.

Station: COCHIN (Contd.) Compt. E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
22	06	1	0.0	-
Contd.	09	3	0.0	-
	06	3	0.0	-
	07	3	0.0	-
	08	3	0.0	-
	09	3	0.0	-
	10	3	0.0	-
	11	3	0.0	-
	12	3	0.0	-
	13	3	0.0	-
	14	3	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17		0.0	-
	18		0.0	-
	19		0.0	-
	20		0.0	-
	21		0.0	-
	22		0.0	-
	23		0.0	-
13	00	3	0.0	-
	06	3	0.0	
14	06		0.0	-
17	06	1	0.0	-
20	06	3	0.0	-
	12	3	0.0	-
	18		0.0	-
21	06	3	0.0	-
	12	1	0.0	-
	18		0.0	-
22	00	1	0.0	-
	06	1	2.7	1.4
	12	1	2.8	1.4
	18	1	1.0	1.4
23	00		0.0	-
	06	3	3.5	1.6
	12	1	3.5	1.5
	18	2	...	-
24	00	3	4.4	1.5
	06	3	3.7	1.6
	12	3	2.9	1.4
	18	1	4.1	1.4
25	00	1	2.9	1.5
	01	1	2.8	1.6
	02	1	2.8	1.5
	03	1	2.8	1.5
	04	3	3.1	1.4
	05	1	4.4	1.4
	06	1	4.9	1.6
	07	1	5.2	1.5
	08	1	5.6	1.4
			1.0	
	09	1	5.7	1.5
	10	1	2.9	1.4
	11	1	3.4	1.6
	12	1	3.2	1.5
	13	1	3.1	1.4
	14	1	3.6	1.5
	15	1	3.6	1.6
	16	1	3.9	1.5
	17	1	3.3	1.5
	18	1	5.2	1.5
	19	1	4.2	1.5
	20	1	3.2	1.6
	21	1	2.9	1.4
	22	3	2.2	1.5
	23	3	2.0	1.4
26	00	3	2.1	1.5
	01	3	2.2	1.4
	02	3	2.1	1.4
	03	3	2.9	1.8
	04	3	1.8	1.4
	05	3	2.8	1.4
	06	1	2.0	1.4
	07	1	1.5	1.4
26	08	1	1.9	1.3
Contd.	09	1	1.8	1.4
	10	1	1.0	1.4
	11	1	1.5	1.4
	12	1	1.9	1.4
	13	1	1.8	1.1
	14	1	0.9	1.4
	15	1	1.3	1.4
	16	1	0.8	1.4
	17	1	0.8	1.4
	18	1	1.3	1.4
	19	1	1.3	1.4
	20	1	1.8	1.5
	21	1	1.0	1.4
	22	1	1.3	1.4
	23	1	1.2	1.4
27	00	1	0.0	-
	06	1	2.4	1.5
	12	1	1.8	1.4
	18	1	2.5	1.5
28	00	1	0.0	-
	06	1	0.0	-
29	06	1	0.0	-
31	06	1	0.0	-
	12	1	0.0	-
	18	2	...	-
			.....	

Component: Vertical.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE m.m.	MEAN PERIOD SEC.
01	00		0.0	-
	06	1	0.0	-
03	06	3	0.0	-
	12	1	0.0	-
05	06	3	0.0	-
	12	3	0.0	-
	18	1	0.0	-
06	00		...	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
07	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	3	0.0	-
08	00	3	0.0	-
	06	3	0.0	-
	12	1	0.0	-
09	06	3	0.0	-
	12	3	0.0	-
	18	1	0.0	-
10	00		0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18		0.0	-
11	00		0.0	-
	06		0.0	-
	12	1	0.0	-
	18	1	0.0	-
12	00		0.0	-
	01		0.0	-
	02		0.0	-
	03	1	0.0	-
	04	1	0.0	-
	05	3	0.0	-
	06	3	0.0	-
	07	3	0.0	-
	08	2	0.0	-
	09	3	0.0	-
	10	2	0.0	-
	11	2	0.0	-
	12	3	0.0	-
	13	3	0.0	-
	14	3	0.0	-
12	15	1	0.0	-
Contd.	16	3	0.0	-
	17		0.0	--
	18		0.0	-
	19		0.0	-
	20		0.0	-
	21		0.0	-
	22		0.0	-
	23		0.0	-
13	00	3	0.0	--
	06	3	0.0	-
14	06		...	
17	06	1	0.0	-
20	06	1	0.0	-
	12	1	3.2	0.7
	18	3	0.0	-
21	06	1	0.0	-
	12	1	3.4	0.8
	18		0.0	-
22	00	3	0.0	-
	06	3	0.0	-
	12	3	0.0	-
	18	3	0.0	-
23	00		0.0	-
	06	3	0.0	-
	12	1	0.0	-
	18	3	0.0	-
24	00		0.0	-
	06	3	0.0	-
	12	1	0.0	-
	18	1	2.6	-
25	00	1	0.0	-
	01	3	0.0	-
	02	1	0.0	-
	03	3	0.0	-
	04	3	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	3.9	0.8
	09	1	2.3	0.8
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	1.4	0.8
	20		0.0	-
	21		0.0	-
	22		0.0	-
	23		0.0	-
26	00		0.0	-
	01		0.0	-
	02	2	...	-
	03	3	0.0	-
	04	3	0.0	-
	05	3	0.0	-
	06	3	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	3	0.0	-
	12	3	0.0	-
	13	3	0.0	-
	14	3	0.0	-
	15	3	0.0	-
	16	2	...	-
	17		0.0	-
	18		0.0	-
	19		0.0	-
	20		0.0	-
	21	1	0.0	-
	22	3	0.0	-
	23		0.0	-
27	00		0.0	-
	06	1	0.0	-
	12	3	0.0	-
	18	3	0.0	-
28	00		0.0	-
	06	3	0.0	-
29	06	3	0.0	-
31	06	1	0.0	-
	12	1	0.0	-
	18	2	...	-
			.....	

P.T.O.

International Seismological Centre From the ISC collection scanned by SISMOS

Geophysical Laboratory
Bengal Engineering College
Howrah, India.

Analysis of Microseismic Movements.
Station: Howrah. Lat. 22°33'N, Long. 88°19'E.
Foundation - Alluvium. Month: August, 1957.

Component - N.S.

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLITUDE MICRON
01	00		3.6	1.9
	06		3.2	2.1
	12	0..	-	-
	18	3	3.5	2.3
			2.7	1.9
02	00		3.1	3.3
	06		3.2	2.7
	12		3.3	2.7
	18		3.3	2.7
03	00		3.2	2.6
	06		3.7	3.5
	12		3.3	3.5
	18		3.3	2.0
04	00		3.0	2.2
	06		3.4	2.6
	12		3.4	2.2
	18		3.0	2.0
05	00	3	2.6	2.8
			3.2	3.0
	06		3.1	3.5
	12		2.8	2.8
	18		3.5	3.9
06	00		2.7	2.6
	06		3.8	3.4
	12		3.6	2.5
	18		3.5	2.6
07	00		3.6	2.7
	06		3.6	2.9
	12		4.0	3.3
	18		3.9	3.1
08	00		3.8	3.2
	06		4.3	4.8
	12	3	3.1	3.0
			4.2	4.0
	18	3	2.8	2.9
			3.7	2.2
09	00		3.4	3.9
	06		3.2	3.7
	12		3.3	4.0
	18		3.3	4.1
10	00		3.2	3.9
	06		3.1	3.7
	12		3.1	3.4
	18		3.3	2.8
11	00		3.2	2.3
	06		3.1	2.3
	12	0..	-	-
	18		3.3	1.6
12	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
13	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
14	00	0..	-	-
	06	0..	-	-
	12		3.0	3.3
	18		2.9	2.5
15	00		3.1	2.8
	06		3.2	2.6
	12		3.1	2.2
	18		3.1	2.3
16	00		3.1	1.9
	06		3.2	2.1
16 Contd.	12		3.3	1.9
	18		3.3	2.0
17	00		-	-
	06		2.9	2.3
	12		3.6	2.4
	18		3.5	2.3
18	00		3.6	2.4
	06		3.6	2.6
	12		3.7	2.6
	18		3.5	1.9
19	00		3.8	2.6
	06	0..	-	-
	12		4.1	4.6
	18		4.5	3.6
20	00		4.5	4.2
	06		3.4	6.3
	12		3.6	5.5
	18		3.8	8.2
21	00		3.8	10.4
	06		4.0	12.5
	12		3.8	10.5
	18		3.6	11.1
22	00		3.3	8.2
	06		3.3	8.3
	12	3	3.4	8.6
	18		3.4	7.4
23	00		3.4	5.6
	06		3.1	5.0
	12		3.7	4.3
	18		3.8	3.4
24	00		3.7	3.3
	06		4.2	4.2
	12		4.0	3.2
	18		4.0	2.5
25	00		4.0	2.7
	06		3.4	2.8
	12		3.4	2.1
	18		4.6	2.8
26	00		3.6	2.1
	06		3.5	2.9
	12		3.6	3.4
	18		3.1	2.4
27	00	3	2.6	2.4
			3.6	3.0
	06		2.9	3.7
	12		3.2	3.2
	18		2.7	2.7
28	00		3.2	2.8
	06		3.5	3.5
	12		3.4	2.7
	18		3.2	2.4
29	00		3.3	2.2
	06		2.8	1.7
	12	0..	-	-
	18		3.2	2.3
30	00		3.9	1.8
	06		2.8	2.6
	12	0..	-	-
	18		3.1	1.8
31	00		3.2	2.3
	06	0..	-	-
	12		2.8	2.3
	18		2.5	2.0

Component - E.W.

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLITUDE MICRON
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.1	2.3
02	00		3.3	2.7
	06	0..	-	-
	12		3.3	3.3
	18		3.4	2.9
03	00		3.6	3.4
	06		3.5	3.0
	12		3.4	3.6
	18		3.2	3.1
04	00		2.9	2.7
	06	0..	-	-
	12		3.7	3.1
	18		3.2	3.0
05	00	3	2.7	2.2
			3.4	3.0
	06	0..	-	-
	12		3.2	4.1
	18	3	2.9	2.4
			3.6	3.0
06	00		3.0	2.7
	06	0..	-	-
	12	0..	-	-
	18		3.5	3.1
07	00		3.7	3.5
	06		3.7	3.2
	12		3.8	3.3
	18		3.9	3.4
08	00		3.8	3.6
	06	0..	-	-
	12	0..	-	-
	18	3	3.2	3.2
			4.1	4.4
09	00		4.4	5.0
	06		4.0	5.3
	12		3.2	3.2
	18		3.3	3.3
10	00		3.2	3.9
	06		3.2	3.6
	12	0..	-	-
	18		3.1	2.7
11	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
12	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
13	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
14	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.1	2.5
15	00		3.0	3.2
	06		3.2	2.5
	12		3.3	2.5
	18		3.0	2.2
16	00		3.1	2.3
	06	0..	-	-
	12		3.2	2.3
	18		3.0	2.2
17	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.4	2.5
18	00		3.7	3.0
	06		3.5	3.1
	12	0..	-	-
	18		3.9	2.9
19	00		3.7	3.4
	06	0..	-	-
	12	0..	-	-
	18		4.8	4.5
20	00		4.2	3.9
	06		3.2	6.2
	12		3.7	6.5
	18		3.6	7.3
21	00		3.8	9.4
	06		4.0	9.6
	12		3.7	10.5
	18		3.4	9.6
22	00		3.3	7.7
	06		3.3	8.1
	12		3.2	6.5
	18		3.3	5.2
23	00		3.2	4.6
	06		3.6	3.8
	12		4.0	5.4
	18		4.2	5.2
24	00		4.1	4.5
	06	0..	-	-
	12		3.9	4.2
	18		4.0	2.8
25	00		3.9	2.5
	06	0..	-	-
	12	0..	-	-
	18		4.0	2.7
26	00	0..	-	-
	06	0..	-	-
	12		3.3	3.2
	18		3.4	3.8
27	00		2.6	2.6
	06		3.8	3.6
	06	0..	-	-
	12	0..	-	-
	18		3.5	2.9
28	00		3.5	3.2
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
29	00		2.3	2.2
	06	0..	-	-
	12	0..	-	-
	18		3.3	2.3
30	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.1	2.0
31	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.0	2.5

International Seismological Centre From the ISC collection scanned by SISMOS

Component - Vertical

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLI- MICRON
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00		3.3	0.8
	06	0..	-	-
	12		3.1	0.5
	18		3.2	0.6
03	90		3.3	1.0
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
04	00		3.0	0.6
	06	0..	-	-
	12	0..	-	-
	18		3.2	0.4
05	00		3.2	0.6
	06	0..	-	-
	12		3.6	0.7
	18		3.4	0.6
06	00		3.0	0.6
	06		3.8	0.7
	12		3.7	0.6
	18		3.5	0.6
07	00		3.3	0.6
	06		3.7	0.7
	12		3.4	0.6
	18		3.4	0.6
08	00		3.6	0.7
	06	0..	-	-
	12	3	2.5	0.4
			3.7	1.0
	18		3.4	0.8
09	00		3.3	1.2
	06		3.4	0.8
	12		3.4	0.9
	18		3.2	1.0
10	00		3.4	1.6
	06		3.1	0.8
	12		3.3	0.7
	18		3.2	0.7
11	00		3.3	0.5
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
12	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
13	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
14	00	0..	-	-
	06	0..	-	-
	12		3.0	0.5
	18		3.0	0.5
15	00		3.0	0.7
	06		3.3	0.5
	12	0..	-	-
	18		3.4	0.5
16	00		3.2	0.5
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
17	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
18	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
19	00		3.6	0.6
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
20	00		3.3	0.4
	06		3.3	0.6
	12		3.6	0.9
	18		3.6	1.5
21	00		3.7	2.5
	06		3.1	1.2
	12		3.8	3.1
	18		3.5	3.1
22	00		3.6	6.1
	06		3.1	4.2
	12		3.3	3.1
	18		3.3	2.7
23	00		3.5	1.8
	06		3.3	0.9
	12		3.4	0.8
	18		3.8	0.7
24	00		3.4	0.7
	06		3.3	0.7
	12	0..	-	-
	18	0..	-	-
25	00		3.5	0.5
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
26	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
27	00		2.9	0.5
	06		2.9	0.7
	12		3.1	0.6
	18		3.0	0.8
28	00		3.2	0.6
	06		3.3	0.5
	12		3.5	0.8
	18		3.2	0.6
29	00		3.4	0.8
	06		3.1	0.6
	12	0..	-	-
	18		3.3	0.7
30	00	0..	-	-
	06		3.5	0.8
	12	0..	-	-
	18		3.2	0.7
31	00		3.4	0.5
	06	0..	--	-
	12		3.0	0.6
	18		2.8	0.7

.....

Additional reading for microseismic storm :

Component - N.S

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLI- MICRON
20	03		-	-
	09		-	-
	15		3.8	7.6
	21		3.9	8.7
21	03		3.8	10.6
	09		4.1	10.2
	15		3.9	11.2
	21		3.5	9.4
22	03		3.1	7.6
	09		3.6	9.7
	15		3.3	7.0
	21		3.5	5.1

Component - E.W

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLI- MICRON
20	03		-	-
	09		-	-
	15		3.9	7.8
	21		4.0	8.2
21	03		3.7	9.0
	09		4.2	12.5
	15		3.8	11.4
	21		3.5	10.6
22	03		3.5	7.0
	09		3.4	8.1
	15		3.2	6.1
	21		3.3	4.9

Component - Vertical

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLI- MICRON
20	03		-	-
	09		-	-
	15		-	-
	18		3.7	1.5
21	03		3.7	2.8
	09		3.7	3.0
	15		3.8	2.7
	18		3.5	7.1
22	03		3.3	4.7
	09		3.5	3.1
	15		3.4	4.3
	18		3.5	1.2

.....

Station: PORT BLAIR

Component - E.W

DATE	HOUR G.M.T	K	MEAN PERIOD SECS.	MEAN AMPLI- MICRON
30	00	...	-	-
	06	...	-	-
	12	3	7.0	1.3
	18	3	7.0	1.3
31	00	...	-	-
	06	3	7.0	1.3
	12	3	7.0	1.0
	18	3	7.0	1.2

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S.Basu, M.Sc., F.N.I.,
Director General of Observatories

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Instruments and their Constants

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFI-CATION	DAMPING RATIO	PAPER SPEED mm/min
BOMBAY	Milne-Shaw	N	12	350	23:1	16
	Milne-Shaw	E	12	350	12:1	8
	Sprengnether	E	To=Tg=7	-	-	30
BOKARO	Milne-Shaw	N	12	250	20:1	16
	Milne-Shaw	E	12	250	20:1	16
	Wood-Anderson	E	0.8	960	h= 0.8	60
	Wood-Anderson	N	0.8	1000	h= 0.8	60
COLOMBO	Milne-Shaw	E	11.9	250	20:1	--
CALCUTTA	Milne-Shaw	E	12	250	20:1	8
	Wood-Anderson	N	2	870	Critical	30
	Omori-Ewing	N	16	32	-	25.4
	Omori-Ewing	E	21	30	-	25.4
CHATRA	Milne-Shaw	E	12	250	20:1	16
	Milne-Shaw	N	10	150	20:1	16
	Wood-Anderson	E	1	1000	30:1	60
	Wood-Anderson	N	1	1000	40:1	60
	Benioff Short Period	Z	To= .72 Tg= .45	-	Critical	60
	Wenner Accellerograph	ENZ	-	-	-	--
DEHRA DUN	Wood-Anderson	N	0.8	950	Critical	60
	Wood-Anderson	E	0.8	850	Critical	60
	Milne-Shaw	N	12	250	20:1	8
	Milne-Shaw	E	12	250	20:1	8
HYDERABAD	Milne-Shaw	E	12	250	20:1	8
	Milne-Shaw	N	12	250	20:1	8
KODAIKANAL	Milne-Shaw	E	10	250	20:1	8
MADRAS	Sprengnether	E	To=Tg= 7.4	-	-	30
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	30
	Wood-Anderson	E	4	1000	20:1	16
	Milne-Shaw	N	12	280	20:1	8
PORT BLAIR	Wood-Anderson	N	2	1000	20:1	30
SHILLONG	Wood-Anderson	N	0.8	1000	h = 0.8	30
	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Milne-Shaw	N	12	250	20:1	8
	Benioff	Z	To = 1.0 Tg = 0.18	-	-	60
	Sprengnether Wenner Accellerograph	E	To=Tg=6.8	-	-	30
		ENZ	-	-	-	--
TOCKLAI	Wood-Anderson	E	0.8	970	h = 0.8	60
VIZIANAGRAM	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Wood-Anderson	N	2	1000	20:1	30

List of Seismograph station

Station	Latitude	Longitude	Height a.s.l (Metres)	Lithographic foundation
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
BOKARO	23°50'N	85°48'E	-	Rock
COLOMBO	06°54'N	79°52'E	7	Beach Sand
CALCUTTA	22°32'N	88°22'E	(1) 7(Milne-Shaw)	Alluvium
			(2) 6(Omori-Ewing)	
CHATRA	26°50'N	87°10'E	161	Sand Stone
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
NEW DELHI	28°35'N	77°12'E	207	Massive Quartzite
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	-

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
01	DEHRA DUN	N,E	e	02 55 09		Tremor
01	Epc: 39°N, 75°E. Sinkiang Province, China H = 12h 49m 57s G.M.T. (Shillong) 39°N, 75°E. Western Sinkiang Province, China H = 12h 49m 55s G.M.T. (U.S.C.G.S)					
	DEHRA DUN	N,E	eP	12 52 13	1010	Slight
		N	PP	52 21		
			Lq	53 44		
			iS	53 57		
			SS	54 07		
			SSS	54 17		
			Sg, M	54 54		
	CHATRA	Z	iP	12 53 40	1860	Slight
		E	iS	56 46		
	BOKARO	N,E	eP	12 54 05	1950	Slight
		E	eS	57 19		
			SS	57 43		
			M	59 53		
	SHILLONG	Z	iP	12 54 24	2170	Slight
		N,E	eP			
		E	i	54 43		
			i	54 52		
			iS	57 58		
			Lq	58 03		
			SS	58 23		
			SSS	58 40		
	BOMBAY	N	eP	12 54 34	2350	Slight
		E	PP	54 49		
		N	e	55 05		
			e	56 19		
		N,E	eS	58 26		
		E	SS	59 19		
			SSS	59 40		
			Lr	13 00 29		
		N	e	00 45		
	CALCUTTA	E	eP	12 54 36	2220	Slight
			iS	58 16		
	TOCKLAI	E	eP	12 54 37		Slight
	POONA	Z	eP	12 54 40	2290	Slight
		E	PP	54 57		
			PPP	55 08		
			eS	58 27		
			Lq	58 40		
			SS	58 52		
			SSS	59 02		
			Lr	59 36		
			M	13 01 21		
			PcS	02 23		
	VIZIANAGRAM	N	eP	12 54 55		Slight
			e	59 08		
	HYDERABAD	N	eP	12 54 55	2450	
			PPP	55 37		
			iS	58 55		
			Lq	59 21		
			Lr	13 00 04		
			M	01 19		Per. ± 8 secs μ ± 3
		E	M	01 25		Per. ± 8 secs μ ± 5
	MADRAS	E	eP	12 55 31	2850	Slight
			PPP	56 24		
			eS	59 57		
			Lq	13 00 49		
			SS	01 06		
			SSS	01 25		
			Lr	02 06		
			ScP	02 19		
			M	04 11		
01	KODAIKANAL	E	e	13 05 14		Tremor
01	SHILLONG	Z	i	23 11 53		Tremor
01/02	Epc: 18°N, 147½°E. Mariana Islands H = 23h 59m 54s G.M.T. (U.S.C.G.S)					
02	SHILLONG	Z	iP	00 09 04	5720	Slight
		E	eP			
		E	iS	16 24		Rarefaction
			i	19 01		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
02 Contd.	CHATRA	Z	iP	00 09 35	6120	Slight
		E	iS	17 17		
	DEHRA DUN	N,E	eP	00 10 30	7020	Feeble
			eS	19 01		
			e	20 51		
	POONA	Z	eP	00 11 04		
	BOMBAY	E	eS	00 20 17		Very slight
			e	25 00		
02	TOCKLAI	E	eP	03 36 35		Moderate, near
			e	36 39		
			i	38 20		
	SHILLONG	Z,N,E	iP	03 37 04	450	Moderate, near
		E	P*	37 11		Compression
			Pg	37 21		First movement
			iS	37 52		West.
			S*	38 03		Magnitude 5.2
			Sg	38 09		
			SSS	38 15		
	CHATRA	Z	iP	03 37 59		Slight
02	BOMBAY	N,E	e	03 48 15		Very slight
		E	e	48 30		
02	DEHRA DUN	N,E	e	10 01 37		Tremor
	BOMBAY	E	e	10 12 08		Very slight
02	SHILLONG	Z	iP	13 29 26		Slight, distant Rarefaction
02	SHILLONG	Z	iP	14 32 01		Slight, distant
		E	eP			Rarefaction
	DEHRA DUN	N,E	e	14 32 24		Tremor
02	SHILLONG	Z	e	14 41 51		Tremor
02	SHILLONG	Z	iP	15 57 11		Slight Compression
02	SHILLONG	Z	eP	17 26 16		Slight, distant
02	SHILLONG	Z	iP	17 30 23		Feeble, near Rarefaction.
02	SHILLONG	Z	eP	18 12 52		Slight, distant
02	SHILLONG	Z	iP	20 30 32		Slight, distant Compression
02	SHILLONG	Z,E	eP	21 01 13		Slight, felt
02	Epc: 37°N, 71°E. Hindukush, h about 200 Kms ca H = 21h 27m 30s G.M.T. (Shillong) 37°N, 71°E. Hindukush, h about 200 Kms ca H = 21h 27m 36s G.M.T. (U.S.C.G.S) Felt: Srinagar.					
	DEHRA DUN	N,E	eP	21 29 36	870	Slight
		N	PP	29 44		
			PPP	29 51		
			Lq	30 57		
			iS	31 06		
			SS	31 18		
			SSS	31 30		
			Sg, M	31 56		
	CHATRA	Z	iP	21 31 13		Slight
		E	i	34 23		
	BOMBAY	N,E	eP	21 31 33	1890	Slight
		N	e	32 23		
		E	e	32 34		
		N,E	eS	34 42		
		E	e	34 46		
		N	e	34 53		
		N,E	e	35 41		
			e	38 44		
	BOKARO	N,E	iP	21 31 33	1930	Slight. First
		E	eS	34 46		movement. N
			SS	35 12		and W.
			Lr	35 37		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
02 Contd.	POONA	Z	iP	21	31	34	2130	Moderate
		E	PP		31	45		
		N	PPP		32	03		
			iS		34	53		
			SS		35	10		
			SSS		35	27		
			M		37	04		
		E	PcS		39	20		
			ScS		42	53		
	HYDERABAD	N	iP	21	31	57	2260	First movement
			PP		32	20		North.
			PPP		32	33		
			e		32	59		
			iS		35	27		
			SS		35	44		
			Lr		36	11		
			M		37	53		Per. ± 9 secs
								μ ± 7
		E	M		37	59		Per. ± 6 secs
								μ ± 11
	SHILLONG	Z,N,E	iP	21	32	04	2400	Moderate
		E	pP		32	38		First movement
			sP		33	05		East
		E,N	iS		35	43		
		E	i		36	05		
			i		36	35		
			sS		36	43		
	VIZIANAGRAM	N	iP	21	32	07		Moderate
			i		33	13		
			i		36	41		
			i		37	59		
	TOCKLAI	E	eP	21	37	16		Moderate
	MADRAS	E	sP	21	33	00	3110	Moderate
			PP		33	48		
			PPP		34	00		
			PcP		36	10		
			eS		37	27		
			Lq		38	31		
			SS		38	49		
			SSS		39	07		
			ScP		39	44		
			Lr		39	50		
			M		41	57		
	PORT BLAIR	N	eP	21	33	36	3620	Slight
			PP		34	40		
			iS		38	34		
			ScP		39	56		
			Lq		40	12		
	COLOMBO	E	e	21	34	21		
			e		39	56		
			e		44	09		Amp. ±0.5 mm
	KODAIKANAL	E	i	21	38	27	1800	
			e		38	36		
			e		38	48		
			i		41	27		
03	TOCKLAI	E	iP	05	25	29		Slight, near
			e		25	58		First movement
			i		26	17		West
			i		26	28		
	SHILLONG	Z	iP	05	25	52		Slight, near
		N,E	eP					Compression
	CHATRA	Z	iP	05	26	51	1520	Slight
		E	iS		29	25		
03	SHILLONG	Z	iP	06	19	05		Slight, distant
								Compression.
03	SHILLONG	Z	iP	08	01	35		Slight, distant
								Rarefaction
03	SHILLONG	Z	eP	16	08	40		Feeble, local
03	CHATRA	Z	eP	19	54	14	160	Feeble
			iS		54	34		
03	SHILLONG	Z	iP	20	52	56		Slight, distant
								Compression
03	SHILLONG	Z	eP	23	31	51		Slight, distant
04	SHILLONG	Z	eP	01	43	48		Slight, near.

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
04	Epc: South Indian Ocean, about 1000 miles north east of Kerguelen Islands. H=04h 33m 51s (U.S.C.G.S)							
	COLOMBO	E	S	04	49	50		Trace over-
			e		59	50		lapping.
	POONA	Z	eP	04	44	13		Feeble
	SHILLONG	Z	iP	04	44	50	7450	Compression
		E	iS		53	43		microseisms
		N	M	05	06	50		present
	DEHRA DUN	N,E	e(S)	04	54	52		Feeble
			e		59	53		
	HYDERABAD	N	M	05	05	33		Per. ±18 secs
								μ ± 9
		E	M		05	42		Per. ±18 secs
								μ ± 6
	PORT BLAIR	E	e	05	39	59		
04	Epc: 27°N, 67°E. West Pakistan. H = 08h 07m 30s. (Shillong) 28°N, 65½°E. H = 08h 07m 45s (U.S.C.G.S).							
	DEHRA DUN	N,E	eP	08	10	00	1130	Slight
		N	PP		10	07		
			iS		11	56		
			SS		12	09		
			SSS		12	21		
			Sg,M		13	03		
	POONA	Z	eP	08	10	13		Slight
	CHATRA	Z	iP	08	11	43		Slight
		E	i		15	23		
	MADRAS	E	eP	08	12	02	2170	Slight
			PP		12	22		
			PPP		12	33		
			iS		15	37		
			Lq		15	47		
			SS		16	11		
			SSS		16	22		
			Lr		16	44		
			M		18	20		
	SHILLONG	Z,E	iP)					
		N	eP)	08	12	09	2460	Slight
		E	i		12	48		Compression
		E,N	eS		15	29		First movement
								East.
04	SHILLONG	Z,N	eP(?)	08	16	48		Slight, distant
	TOCKLAI	E	e	08	16	53		Slight, distant
04	SHILLONG	Z,E	eP	08	40	07		Local, feeble
	CHATRA	Z	iP	08	40	42	530	Slight
			iS		41	38		
04	SHILLONG	Z	eP	12	37	24		Slight, distant
04	SHILLONG	Z	iP	20	15	09		Compression
04	SHILLONG	Z	eP	20	31	07		Feeble, near
04	SHILLONG	Z	iP	22	47	32		Slight, distant
								Compression
05	SHILLONG	Z	eP	00	33	57		Feeble, near
05	SHILLONG	Z	eP	01	07	02		Local, feeble
05	SHILLONG	Z	eP	02	24	01		Slight, distant
05	SHILLONG	Z	eP	03	24	20		Slight, distant
05	SHILLONG	Z	iP	04	13	58		Slight, distant
								Compression
05	SHILLONG	Z	e	07	33	49		Slight, distant
05	SHILLONG	Z	iP	07	35	09		Feeble, local
								Compression.
05	SHILLONG	Z	iP	08	13	47		Slight, distant
								Rarefaction
	SHILLONG	Z	eP	09	25	29		Slight, distant
05	SHILLONG	Z	eP	09	38	47		Slight, distant

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DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
September 1957						
05	Epc: 29½°N, 53½°E. Iran.-H=11h 36m 00s (Shillong) -H=11h 36m 07s (U.S.C.G.S) Southern Iran. 1 killed, many injured in Jahrom Moderate Property damage in Jahrom and Kerman.					
	BOMBAY	E	eP	11 40 46	2310	Slight
			eS	44 34		
	POONA	Z	iP	11 40 53		Slight
	DEHRA DUN	N,E	e	11 41 03		Slight
			i	45 09		
			i	45 55		
			i	49 12		
			i	49 50		
			i	50 55		
	CHATRA	Z	eP	11 42 13		Feeble
	SHILLONG	Z,N	eP	11 42 52		Slight
	BOKARO	N,E	e	11 47 55		Tremor
05	SHILLONG	Z	iP	12 24 55		Slight, near Compression.
	CHATRA	Z	i	12 25 09		Feeble
06	SHILLONG	Z	i	00 37 48		Slight, distant
	POONA	Z	iP	00 37 53		
06	SHILLONG	Z	eP	01 23 47		Slight, near.
06	DEHRA DUN	N,E	e	01 56 16		Tremor
06	SHILLONG	Z	iP	05 05 57		Slight, distant Rarefaction
06	SHILLONG	Z	eP	18 46 36		Slight, distant.
06	CHATRA	Z	i	20 31 50		Feeble, near
06	SHILLONG	Z	eP	20 32 15		Slight, distant
06	CHATRA	Z	i	20 33 46		Feeble, near
06	SHILLONG	Z	iP(?)	20 34 14		Slight, distant Compression
06	CHATRA	Z	i	23 13 51		Feeble, near
07	SHILLONG	Z	eP	01 30 03		Slight, near.
07	TOCKLAI	E	eP	02 21 43		Slight, near
			i	22 17		
	SHILLONG	Z,E	eP	02 22 01		Slight, near
	CHATRA	Z	i	02 23 03		Slight
07	CHATRA	Z	iP	03 36 11	100	Slight
			iS	36 25		
07	SHILLONG	Z,N	eP	04 23 49	210	Feeble, first
		E	iP			movement East
			S	24 11		
			Sg/Sn	24 13		
			SS	24 23		
			SSS	24 33		
	TOCKLAI	E	eP	04 23 52		Slight, near
			i	24 17		
	CHATRA	Z	iP	04 24 50		Slight
		E	i	26 27		
07	Epc: 50°N, 156°E. Northern Kurile Islands H = 06h 48m 36s (U.S.C.G.S)					
	SHILLONG	Z	iP	06 58 02		Slight Compression
	CHATRA	Z	i	06 58 23		Slight
	DEHRA DUN	N,E	eP	06 58 59	7000	Feeble
			eS	07 07 29		
	POONA	Z	iP	06 59 58		Slight
	BOMBAY	N,E	eP	07 00 00		Slight
		N	e	00 26		
		E	e	09 44		
			e	10 07		
		N	e	10 51		
07	CALCUTTA	E	i	09 27 56		Slight, distant
07	Epc: 51½°N, 178½°W. Adreanof Islands, Aleutian Islands. - H = 10h 06m 47s (U.S.C.G.S)					
	SHILLONG	Z,E	iP	10 17 57	7730	Slight
		N	eP			
		E	i	19 10		Compression
		E,N	iS	27 04		First move-
			i	27 40		ment East.
			i	29 08		
			i	31 33		
			i	33 59		
		N	Mn	45 01		Per.±15 secs μ = 7
	TOCKLAI	E	e	10 18 19		Slight
	DEHRA DUN	N,E	e(P)	10 18 30	8200	Slight. Phases
			i(S)	28 01		not clear.
	BOKARO	N,E	iP	10 18 31		Moderate. Phases
		N	i	27 41		poorly deve-
			e	28 36		loped. First movement South and West.
	BOMBAY	N,E	eP	10 19 29	9610	
			SKS1	29 54		
		N	eS	30 05		
		E	iS	30 20		
			e	31 00		
			M	59 39		Per.±19 secs
		N	M	59 --		μ = 2
	POONA	Z	iP	10 19 30	9270	Slight
		N	iS	29 51		
			SKS	30 05		
			PS	30 47		
			PPS	31 06		
			M	52 56		
	HYDERABAD	E	e	10 29 36		
		N	e	29 39		
			M	51 32		Per.±18 secs μ = 9
		E	M	53 17		Per.±19 secs μ = 7
	COLOMBO	E	e	10 30 52		Trace over-
			L	54 --		lapping.
			M	11 04 --		Amp.±0.3 mm
07	SHILLONG	Z	eP	10 44 49		Slight, distant
07	SHILLONG	Z	eP	11 29 27		Very slight, distant.
07	CHATRA	E,Z	iP	18 18 12		Slight
		E	i	27 29		
07	SHILLONG	Z	iP	18 44 14		Slight, distant Compression.
07	SHILLONG	Z	eP	19 41 18		
07	SHILLONG	Z	iP	19 57 36		Slight, distant Compression
08	DEHRA DUN	N,E	e	02 10 01		Tremor
08	SHILLONG	Z	iP	03 28 22		Slight, distant Compression
08	SHILLONG	Z	eP	05 45 38		Slight, distant
08	SHILLONG	Z	iP	10 31 29		Slight, distant Compression
	CHATRA	Z	i	10 31 41		Feeble, distant
08	SHILLONG	Z	eP	10 45 54		Slight, near.

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
08	SHILLONG	Z	eP	13	29	39		Slight, distant
08	SHILLONG	Z	eP	13	49	48		Slight, near
08	SHILLONG	Z	eP	23	04	17		Slight, near
08	TOCKLAI	E	eP	23	43	57		Slight, near
			i		44	28		
			i		44	45		
	SHILLONG	Z,E	eP	23	44	25		Slight, near
	CHATRA	Z	i	23	45	07		Slight
09	Epc. 46°S, 100°E. South Indian Ocean H. 00h 13m 30s (U.S.C.G.S).							
	COLOMBO	E	e	00	25	19		
			S		30	54		
			L		39	49		
			M		44	04		
	MADRAS	E	e	00	30	25		Phases not
			e		30	47		identifiable.
			e		34	43		
	PORT BLAIR	E	eP	00	23	58	6340	
			iS		31	52		
			M					Per. ≥18 secs
								μ. ≥45
	HYDERABAD	N	eP	00	24	28	7600	
			PPP		28	32		
			PeS		29	06		
			iS		33	30		
			PS		33	49		
		E	SS		38	03		
			Lq		41	33		
			Lr		44	13		
		N	M		48	21		Per. ≥20 secs
								μ. ≥23
		E	M		49	51		Per. ≥17 secs
								μ. ≥10
	VIZIANAGRAM	N	e	00	24	34		Slight
	POONA	Z	eP	00	24	37	8010	Moderate
		N	PcP		24	53		
			PP		27	28		
			PPP		29	08		
			eS		34	00		
			PPS		34	45		
			SS		38	39		
			SSS		41	55		
			Lq		43	51		
			Lr		47	18		
	SHILLONG	Z	iP)	00	25	04	8170	Compression
		N,E	eP)					
		N,E	iS		34	33		
		N	Mn		53	03		Per. ≥15 secs
								μ. ≥11
	BOKARO	N	eP	00	25	12	7930	Slight
			e		25	43		
			e		26	01		
			e		29	33		
			e(S)		34	30		
	CHATRA	Z	e	00	25	15		Slight
	BOMBAY	N	e	00	25	26		
		E	e		34	07		
		N	eS		34	32		
		E	e		38	37		
		N	M		53	41		Per. ≥17 secs
								μ. ≥7
		E	M		58	49		Per. ≥13 secs
								μ. ≥5
	DEHRA DUN	N,E	eP	00	25	51	8850	Slight
			iS		35	53		
			i		41	15		
09	CHATRA	E	eP	09	14	22		Slight, distant.
09	DEHRA DUN	N,E	e	09	20	30		Feeble, phases
			e		30	27		Not clear
	COLOMBO	E	e	09	27	19		Trace overlapping
			e	10	04	47		Amp. ≥0.3 mm
09	SHILLONG	Z	eP	15	14	33		Slight, distant

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
10	SHILLONG	Z	eP	00	01	57		Slight, near
10	SHILLONG	Z	iP	01	29	26		Slight, distant Rarefaction
10	Epc. 27°N. 96½°E. India-Burma Border H. 06h 13m 40s (U.S.C.G.S)							
	TOCKLAI	E	iP	06	14	16		Moderate, first movement West
	SHILLONG	N	e	06	14	49		Slight
			e		15	26		
	CALCUTTA	E	e	06	14	57		Slight
	CHATRA	Z	iP	06	15	49		Slight
		E	i		18	11		
	DEHRA DUN	N,E	eP	06	17	38	1880	Slight
			iS		20	46		
			i		22	56		
	POONA	Z	eP	06	18	37		
	BOMBAY	N,E	eP	06	18	43	3150	Slight, surface
			e		23	00		waves not well
			e		23	30		developed.
		E	e		24	15		
		N,E	e		24	59		
			e		25	16		
		E	e		25	30		
		N	e		26	02		
			e		26	25		
	HYDERABAD	N	M	06	24	07		Per. ≥ 9 secs
								μ. ≥ 3
10	SHILLONG	Z	iP	15	35	08		Slight, distant Compression
10	SHILLONG	Z	eP	15	40	57		Slight, distant
10	SHILLONG	Z	eP	16	26	41		Slight, distant
11	SHILLONG	Z	eP	04	20	19		Slight, near
11	SHILLONG	Z	eP	06	21	50		Slight, local
11	SHILLONG	Z,N,E	ePg/P*	12	24	47	160	Slight. Felt
		E	PP		24	55		at Shillong,
			PPP		25	01		Tezpur and
			Sg/S*		25	05		Mazbat
	TOCKLAI	E	ePg	12	24	53	140	Slight
			iSg		25	10		
	CHATRA	Z	iP	12	26	05	630	Slight
		Z,E	iS		27	12		
11	SHILLONG	Z	eP	12	31	23		Slight, near
11	SHILLONG	Z	e	21	58	55		Slight, distant
12	SHILLONG	Z	eP	00	47	31		Slight, distant
	DEHRA DUN	N,E	e	00	50	41		Feeble, phases not clear
12	DEHRA DUN	N,E	e	17	28	31		Feeble
			e		31	34		
	SHILLONG	Z	e	17	30	48		Slight, distant
13	DEHRA DUN	N,E	e	22	36	36		Tremor
14	SHILLONG	Z	eP	00	50	24		Slight, near
14	SHILLONG	Z	i	00	51	36		Slight, distant Compression
14	SHILLONG	Z	eP	06	21	51		Slight, distant
	CHATRA	Z	i	06	22	51		Feeble, distant
14	SHILLONG	Z	eP	21	33	00		Slight, distant

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
15	SHILLONG	Z	iP	00	32	35		Slight, near Rarefaction
15	Epc: 5½°S, 108°E. Near North Coast of Java, h about 300 kms. H=04h 22m 34s (U.S.C.G.S)							
	PORT BLAIR	N	eP	04	27	16	2300	Slight
			eS		31	03		
	COLOMBO	E	P	04	28	20	3180	Trace over-lapping.
			S		33	08		
	MADRAS	E	eP(?)	04	28	47	3050?	Slight
			PcP		31	55		
			eS(?)		33	27		
			SSS		35	06		
			ScP		35	30		
			Lr		35	54		
			M		38	03		
	TOCKLAI	E	eP	04	29	04		Slight
	SHILLONG	Z,E	iP	04	29	04	3510	Slight, first movement East
		N	eP					
		E	i		30	02		
			PPP		30	31		
			i		31	31		
			iS		34	14		
			Lq		35	56		
			SS		36	06		
			i		37	09		
			Mn		40	15		
	CHATRA	Z	iP	04	29	28		Slight
		E	i		36	49		
	DEHRA DUN	N,E	e(P)	04	30	32		Slight. Phases not clear
			i(S)		36	52		
			i		38	44		
15	BOMBAY	N	e	04	32	45		Very slight
			e		33	11		
			e		39	30		
			e		41	40		
15	SHILLONG	Z	e	05	42	55		Tremor
15	SHILLONG	Z	eP	09	30	26		Slight, near
15	PORT BLAIR	N	Pg	09	50	13	70	Slight
			iSg		50	20		
15	SHILLONG	Z	iP	16	31	58		Slight, distant Compression
15	Epc: 6°S, 153½°E. Solomon Islands Felt: Rabaul and Kavieng. h about 150 km H = 18h 42m 20s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	18	53	10	7390	Slight
		E	iS	19	02	00		Compression First movement West.
	CHATRA	Z	iP	18	53	37		Slight
		E	i		54	21		
	MADRAS	E	eP	18	53	56		Slight
			e		54	19		
			e	19	04	10		
	COLOMBO	E	e(P)	18	54	21	8180?	
			S	19	03	51		
	DEHRA DUN	N,E	eP	18	54	41		Feeble
			i	19	04	22		
			i		05	07		
	BOMBAY	N	eS	19	04	49		Very slight
			e		05	35		
15	SHILLONG	Z	e	20	14	03		Tremor
15	SHILLONG	Z	iP	22	15	44		Slight, distant Compression
15	SHILLONG	Z	iP	22	18	57		Slight, distant Compression
	CHATRA	Z	i	22	19	08		Feeble, distant
15	SHILLONG	Z	e	23	34	48		Tremor

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
15	SHILLONG	Z	eP	23	38	38		Slight, near
	CHATRA	Z	iP	23	39	26	510	Feeble
			iS		40	20		
16	SHILLONG	Z	iP	00	15	30		Slight, distant Rarefaction
16	SHILLONG	Z	eP	00	30	30		Slight, distant
16	SHILLONG	Z	iP	01	44	24		Slight, distant Rarefaction
16	SHILLONG	Z	e	05	54	24		Slight, distant
16	DEHRA DUN	N,E	e	05	28	05		Tremor
16	PORT BLAIR	E	eP	11	14	15	450	
			Lq		14	52		
			iS		15	02		
			M		--	--		Per. ± 8 secs μ = ±13
	SHILLONG	Z	eP	11	16	16		Slight, distant
	CHATRA	Z	i	11	17	08		Slight, distant
		E	e		23	27		
	CALCUTTA	E	e	11	19	46		Slight
	DEHRA DUN	N,E	e	11	23	43		Feeble
16	SHILLONG	Z	eP	14	08	35		Slight, near
16	COLOMBO	E	e	14	55	34		
			e	15	06	02		Amp. ±0.3 mm
	SHILLONG	Z	iP	14	57	21		Slight, distant Compression
	CALCUTTA	E	eP	14	57	42		Slight
			i	15	02	12		
	TOCKLAI	E	e	14	58	12		Slight, distant
	CHATRA	Z	i	14	58	13		Slight, distant
	POONA	Z	eP	14	59	36		Feeble
	DEHRA DUN	N,E	e	14	59	45		Slight. Phases
			e	15	03	52		not clear
	BOKARO	N	e	15	00	21		Tremor
	BOMBAY	N	e	15	03	37		
16	PORT BLAIR	E	eP	15	55	19	450	
			Lq		55	56		
			iS		56	07		
			M		--	--		Per. ± 8 secs μ = ±26
16	SHILLONG	Z	iP	20	04	09		Slight, distant Compression
16	SHILLONG	Z	iP	21	57	49		Slight, near. Compression
16	SHILLONG	Z	iP	23	37	23		Slight, distant Compression
17	SHILLONG	Z	eP	12	15	36		Feeble, near
			e		15	50		
17	SHILLONG	Z	i	13	41	35		Moderate, distant Compression
17	Epc: 36°S, 55°E. Indian Ocean H = 14h 24m 05s (U.S.C.G.S)							
	COLOMBO	E	M	14	51	30		Amp. ±0.3 mm
	POONA	Z	eP	14	34	01		Feeble
	SHILLONG	Z	eP	14	35	25		Feeble
17	SHILLONG	Z	iP	18	51	57		Slight, near Rarefaction.
17	TOCKLAI	E	eP	20	27	22		Slight, near
			i		27	29		
	SHILLONG	Z	eP	20	27	26		Slight, near
			e		28	17		
			e		28	43		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
18	SHILLONG	Z	eP	01 09 08		Tremor
18	POONA	Z	eP	01 10 54		Feeble
18	SHILLONG	Z	eP	10 39 36		Slight, near
18	SHILLONG	Z	eP	10 55 36		Slight, near
			e	56 01		
18	SHILLONG	Z	e	11 16 48		Slight, distant
			e	16 53		
18	SHILLONG	Z	iP	18 26 58		Moderate, distant. Compression.
18	SHILLONG	Z	e	18 55 25		Tremor
18	CHATRA	Z	iP	21 22 32	160	Feeble
			iS	22 52		
	SHILLONG	Z	eP	21 23 12		Slight, near
			e	24 01		
18	SHILLONG	Z	eP	21 37 52		Slight, near
18	SHILLONG	Z	iP	23 13 43		Slight, distant Compression
18	SHILLONG	Z	iP	23 29 53		Slight, near
19	SHILLONG	Z	eP	16 55 04		Slight, near
19	CHATRA	Z	i	17 39 33		Feeble, distant
	SHILLONG	Z	iP	17 39 43		Slight, distant Compression
19	SHILLONG	Z	eP	19 12 18		Slight, distant
20	SHILLONG	Z	e	00 52 36		Slight, near
20	SHILLONG	Z	eP	06 39 29		Slight, distant
20	SHILLONG	Z	iP	07 11 04		Slight, distant Rarefaction
20	SHILLONG	Z	eP	08 05 30		Slight, distant
20	SHILLONG	Z	e	08 34 35		Slight, near
20	Epc: 36½°N, 71°E. Hindukush. Destructive in Kandahar, Afghanistan. h about 200 kms. H = 10h 01m 58s (U.S.C.G.S)					
	DEHRA DUN	N,E	eP	10 04 04	870	Slight
		N	iS	05 34		
			SS	05 44		
			Lq	05 48		
			SSS	05 54		
	CHATRA	Z	iP	10 05 45	1870	Slight
		E,Z	iS	08 52		
	SHILLONG	Z	iP	10 06 29		Slight Rarefaction
20	SHILLONG	Z	iP	10 10 24		Slight, distant Rarefaction
20	SHILLONG	Z	e	15 04 45		Slight, near
20	SHILLONG	Z	e	15 05 41		Slight
	POONA	Z	eP	15 05 59		Feeble
20	SHILLONG	Z	eP	16 34 10		Slight, near
			e	34 21		
20	CHATRA	Z	i	17 30 38		Feeble, near
20	SHILLONG	Z	iP	17 52 00		Slight, distant Rarefaction
20	Epc: 52°N, 170½°W. Fox Islands, Aleutian Islands. H = 23h 07m 22s (U.S.C.G.S)					
	SHILLONG	Z	iP	23 19 01		Slight Compression
	CHATRA	Z	e	23 19 32		Feeble

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
20 Contd.	POONA	Z	eP	23 20 24		Feeble
21	CHATRA	Z	i	03 19 48		Feeble, distant
21	CHATRA	Z	iP	07 54 41	310	Slight
			iS	55 16		
	SHILLONG	Z	iP	07 54 42		Slight, local Compression
21	SHILLONG	Z	eP	12 01 32		Slight, near
			e	01 43		
21	Epc: 40½°N, 34½°E. Northern Turkey H = 20h 16m 53s (U.S.C.G.S)					
	DEHRA DUN	N,E	e	20 26 35		Feeble. Phases
			e	32 59		not clear
	POONA	Z	eP	20 24 37		Tremor
	CHATRA	Z	i	20 25 15		Feeble
	SHILLONG	Z	iP	20 25 47		Slight Compression
21	SHILLONG	Z	iP	20 41 34		Slight, near Rarefaction
	CHATRA	Z	i	20 41 48		Feeble, near
22	SHILLONG	Z,E	eP	03 27 06		Slight, locally felt
22	SHILLONG	Z	eP	05 22 15		Slight, near
22	SHILLONG	Z	e	08 40 33		Tremor
22	SHILLONG	Z	i	08 40 44		Slight, near
22	SHILLONG	Z	iP	09 25 27		Slight, distant Compression
22	SHILLONG	Z	eP	19 36 42		Slight, distant
23	SHILLONG	Z	iP	03 16 20		Slight, distant
			i	17 28		Compression
23	Epc: Western Tibet. H = 05h 03m 40s (Shillong)					
	DEHRA DUN	N,E	eP	05 04 45		Tremor
	CHATRA	Z	iP	05 05 05	620	Slight
		E,Z	iS	06 10		
	SHILLONG	Z	iP	05 06 01	1040	Slight
			iS	07 49		Compression
	BOMBAY	E	e(S)	05 09 53		Feeble
		N,E	e	10 06		
		E	e	10 13		
		N	e	10 21		
		N,E	e	10 35		
			e	10 47		
		E	e	11 12		
	POONA	Z	e	05 09 57		Tremor
23	SHILLONG	Z	iP	07 16 01		Slight, near
			e	16 06		Compression
23	SHILLONG	Z	iP	09 19 47		Slight, distant Compression
23	SHILLONG	Z	iP	09 20 13		Slight, distant Compression
23	SHILLONG	Z	iP	09 23 57		Slight, distant Rarefaction
23	Epc: 52°N, 177½°W. Rat Islands, Aleutian Islands H = 09h 12m 55s (U.S.C.G.S)					
	SHILLONG	Z	iP	09 31 32		Moderate, compression
	CHATRA	Z	iP	09 32 01		Feeble
	POONA	Z	eP	09 32 55		Tremor
23	SHILLONG	Z	iP	14 28 54		Slight, near
			i	29 06		Compression

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
23	SHILLONG	Z	iP	20	02	29		Slight, distant Compression
23	SHILLONG	Z	iP	21	33	01		Slight, near
			i		33	26		Compression
24	SHILLONG	Z	i	02	24	09		Slight, near
24	SHILLONG	Z	eP	03	50	54		Slight, near
			i		51	08		
24	Epc: 5°N, 126°E. Off the South Coast of Mindanao Island. - H = 08h 21m 18s (Shillong)							
	5½°N, 127°E. Near South Coast of Mindanao, Phillipine Islands. Feiti Koror.							
	- H = 08h 21m 05s (U.S.C.G.S)							
	Magnitude = 7¼ (Shillong), 7¼ (Pasadena).							
	PORT BLAIR	E	iP	08	28	14	3560	Moderate
			iS		33	26		
			e		36	06		
			i		38	14		
			e		40	38		
	TOCKLAI	E	eP	08	28	31	4080	Moderate
			iS		34	15		
	SHILLONG	Z	iP	08	28	39	4220	Great
		N,E	eP					
		N	i		30	32		
			i		30	55		
		Z,N,E	iS		34	32		
		N	i		36	32		
			Lq		37	47		
			Lr		39	02		
	CHATRA	Z	iP	08	29	13	5020	Moderate
		E	eP					
			iS		35	53		
	BOKARO	N,E	eP	08	29	16	4720	
		N	PP		30	19		
			PPP		30	45		
			iS		35	39		
			M		44	45		Per. ±34 secs A ±455
	COLOMBO	E	P	08	29	41	5110	
			S		36	26		
			L		44	06		
			M		46	21		Amp. ±15.2 mm
	VIZIANAGRAM	N	eP	08	29	42	5520	Great
			iS		36	51		
	MADRAS	E	eP	08	29	44	5020	Great
			PcP		31	10		
			PP		31	28		
			PPP		32	17		
			ScP		34	53		
			iS		36	24		
			PS		36	32		
			ScS		39	13		
			SS		39	40		
			Lq		40	43		
			SSS		40	47		
			Lr		42	47		
	HYDERABAD	E	iP	08	29	55	5470	First movement 'East'
			PP		31	35		
			PPP		32	30		
			PcS		35	23		
			iS		37	01		
			ScS		39	53		
			Lr		44	11		
			M		46	56		Per. ±26 secs A ±255
		N	M		48	09		Per. ±25 secs A ±149
	KODAIKANAL	E	iP	08	30	03	5310	First movement 'East'
			PP		32	03		
			PPP		32	48		
			iS		37	00		
			SS		40	12		
			SSS		41	21		
			Lr		43	27		
			M		47	27		Per. ±18 secs A ±53

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
24 Contd.	DEHRA DUN	N,E	eP	08	30	23	5640	
		N	PP		32	25		
			PPP		33	14		
			iS		37	39		
			SS		40	41		
			SSS		42	46		
			Lr		45	14		
			M		49	15		Per. ±27 secs A ±158
	POONA	Z	iP	08	30	28	5800	
		E	PcP		31	31		
			PP		32	23		
			PPP		33	14		
			PcS		35	34		
			iS		37	52		
		N	PS		37	57		
			PPS		38	03	40 10	
		E	SS		41	19		
			Lq		43	56		
		N	Lr		45	52		
		E	M		49	49		
		N	Mn		50	--		Per. ±19 secs A ±175
	BOMBAY	N,E	eP	08	30	40	5870	
		E	PcP		31	21		
			PP		32	46		
		N,E	PPP		33	45		
			eS		38	08		
			PS		38	18		
		E	PPS		38	27		
			ScS		39	57		
			i		40	21		
		N	i		40	27		
			i		40	54		
		N,E	SS		41	40		
		E	SSS		43	13		
		N,E	Lq		43	33		
			Lr		44	34		
		E	M		51	30		Per. ±29 secs A ±105
		N	M		51	44		Per. ±23 secs A ±94
24	SHILLONG	Z	eP	09	17	59		Slight, distant
24	SHILLONG	Z	eP	12	42	09		Slight, near.
24	SHILLONG	Z	iP	13	10	34		Slight, distant Rarefaction
24	SHILLONG	Z	iP	13	56	57		Slight, near Rarefaction
24	SHILLONG	Z	eP	15	00	39		Slight, near
24	SHILLONG	Z	iP	17	19	58		Slight, distant Rarefaction
24	SHILLONG	Z	eP	20	58	43		Slight, near
24	SHILLONG	Z	e	21	20	57		Slight, distant
25	SHILLONG	Z	iP	00	34	23		Slight, distant Rarefaction
25	SHILLONG	Z	e	02	13	03		Slight, near
			i		13	32		
25	SHILLONG	Z	iP	02	15	36		Slight, near
			e		16	04		Compression
25	SHILLONG	Z	iP	04	14	51		Slight, distant Compression
	COLOMBO	E	e	05	22	32		Trace, over-lapping
25	KODAIKANAL	E	e	05	24	39		Tremor
	MADRAS	E	e	05	25	23		
			e		28	05		
	HYDERABAD	E	M	05	29	18		Per. ± 9 secs A ±2
		N	M		29	42		Per. ± 9 secs A ± 2

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
25	DEHRA DUN	N,E	e	06 14 55		Feeble.Phases not clear.
25	SHILLONG	Z	iP	07 46 04		Slight,distant Compression
25	SHILLONG	Z	iP	08 20 25		Slight,distant Rarefaction
25	SHILLONG	Z	e	09 28 45		Slight,near
			e	28 59		
			e	29 45		
25	SHILLONG	Z	iP	12 45 18		Slight,distant Compression
25	SHILLONG	Z	iP	14 00 06		Slight,distant Rarefaction
25	SHILLONG	Z	iP	14 17 22		Slight,distant Compression
25	SHILLONG	Z	iP	15 17 04		Slight,distant Rarefaction
25	SHILLONG	Z	iP	15 34 56		Slight,distant Compression
25	SHILLONG	Z	iP	16 33 02		Slight,distant Rarefaction
25	SHILLONG	Z	eP	16 37 26		Slight,distant
25	Epc: Mindanao aftershock. - H = 16h 36m 37s (U.S.C.G.S)					
	TOCKLAI	E	eP	16 43 55		Slight
	SHILLONG	Z,E	iP	16 44 05	4510	Slight
		E	i	44 30		Compression
			i	44 40		First movement
			i	45 54		West
			i	46 07		
			i	46 20		
			iS	50 15		
	CHATRA	E,Z	eP	16 44 41		Slight
		E	e	17 01 12		
	COLOMBO	E	P	16 44 43		
			e	52 13		
			L	17 02 21		
			M	04 41		Amp.±0.4 mm
	BOKARO	N,E	eP	16 44 46	4810	Slight.Phases
			iS	51 14		very poorly developed.
	MADRAS	E	iP	16 45 09	5370	Slight.First
			PcP	46 18		movement West
			PP	47 03		
			PPP	47 56		
			eS	52 09		
			PS	52 14		
			PPS	52 28		
			ScS	54 39		
			SS	55 34		
	HYDERABAD	E	iP	16 45 25	5630	First movement
			PP	47 32		West
			PPP	48 25		
			PcS	50 42		
			iS	51 40		
			ScS	55 14		
			SS	56 26		
			Lq	57 34		
			Lr	59 29		
			M	17 02 26		Per.±18 secs μ = 6
			M	03 53		Per.±18 secs μ = 5
	DEHRA DUN	N,E	eP	16 45 50	5870	Slight.Phases
			i	48 54		not clear
			eS	53 18		
			e	57 54		
			e	58 49		
	POONA	Z	iP	16 45 58		Very slight

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
25 Contd.	BOMBAY	N,E	eP	16 46 07	6210	Very slight
			e	47 15		
		E	PP	48 12		
		N,E	PPP	49 40		
		N	e	53 40		
		E	eS	53 54		
		N	e	54 00		
		E	PPS	54 15		
			ScS	55 34		
			e	55 54		
25	Epc: 6°N, 127½°E. Mindano aftershock - H = 22h 17m 00s (U.S.C.G.S)					
	TOCKLAI	E	eP	22 24 24		Slight
	SHILLONG	Z	eP	22 24 33	4510	Slight.First
		E	iP			movement West
		E	iS	30 43		
	CHATRA	Z	iP	22 25 10		Feeble
	COLOMBO	E	P	22 25 39	5370	
			S	32 39		
			L	44 51		
			M	48 01		Amp.±0.2 mm
	MADRAS	E	e	22 25 53		Feeble
			eS	32 36		
	DEHRA DUN	N,E	eP	22 26 17	5980	Feeble
			eS	33 51		
25	BOKARO	N,E	eS	22 31 49		Tremor
25	Epc: 5½°N, 127½°E. Mindano After shock - H = 23h 33m 30s (U.S.C.G.S)					
	SHILLONG	Z	eP	23 41 07		Tremor
	CHATRA	Z	iP	23 41 39		Feeble
	DEHRA DUN	N,E	eP	23 42 45		Tremor
			e	51 40		
26	SHILLONG	Z	iP	02 39 35		Slight,distant Compression
26	SHILLONG	Z	e	03 04 37		Slight,distant
			e	05 51		
26	SHILLONG	Z	e	06 08 22		Slight,distant
26	SHILLONG	Z	eP	10 15 13		Slight,distant
26	SHILLONG	Z	iP	10 29 11		Slight,distant Compression
26	SHILLONG	Z	iP	12 17 25		Slight,distant Compression
26	SHILLONG	Z	e	13 43 26		Slight, near
			e	43 37		
26	SHILLONG	Z	iP	14 28 19		Slight,distant Compression
26	SHILLONG	Z	iP	16 53 09		Slight,distant Rarefaction
26	SHILLONG	Z	iP	17 17 48		Slight,distant Rarefaction
26	Epc: 6°N, 126½°E. Mindanao Aftershock - H = 18h 46m 41s (U.S.C.G.S)					
	TOCKLAI	E	iP	18 54 00		Slight.First movement East
	SHILLONG	Z,E	iP	18 54 11	4180	Slight
		N	eP			
		E	iS	19 00 01		Compression
		Z	e	00 06		First movement
		E	i	00 29		West
			i	04 13		
	CALCUTTA	E	eP	18 54 29	4250	Slight
			iS	19 00 24		
			i	00 51		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
26 Contd.	CHATRA	Z	eP	18 54 46		Slight
		E	i	19 04 41		
	COLOMBO	E	P	18 55 11	5060	
			S	19 01 53		
	MADRAS	E	eP	18 55 15	5090	Slight
			PPP	57 49		
			eS	19 01 59		
			PS	02 07		
			PPS	02 12		
			ScS	04 47		
			SS	05 18		
	DEHRA DUN	N,E	eP	18 55 56	5610	Feeble
			iS	19 03 10		
			i	03 39		
			i	05 37		
	POONA	Z	iP	18 56 03		Feeble
			i	57 12		
	BOMBAY	E	eP	18 56 10		Very slight
		N,E	eS	19 03 44		
		E	i	04 15		
26	SHILLONG	Z,E	iP	19 52 51	260	Moderate. Compression. First movement West.
		N	eP			
		E,N	iSg	53 27		
	TOCKLAI	E	eP	19 53 00	260	Moderate
			iSg	53 36		
	CHATRA	Z	iP	19 53 54		Slight
		E	eP			
			i	55 16		
	DEHRA DUN	N,E	e	19 58 34		Tremor
26	POONA	Z	e	20 01 01		Feeble
26	CHATRA	Z	iP	23 12 55	810	Slight
		E	iS	14 19		
	SHILLONG	Z	iP	23 12 58		Slight, near Compression
27	SHILLONG	Z	eP	00 35 10		Slight, distant
27	SHILLONG	Z	e	03 16 20		Slight, distant
27	Epc: 1°S. 127°E. Spice Islands H = 04h 06m 23s (U.S.C.G.S)					
	PORT BLAIR	N	eP	04 15 29	4220	
			eS	21 10		
			Lr	25 44		
			M	-- --		Per. ≥15 secs μ ≤11
	TOCKLAI	E	iP	04 16 21		Slight. First movement East
	SHILLONG	Z	iP	04 16 31	4880	Slight
		N	eP			
		E	i	18 15		Compression
			e	22 41		First movement
			i	22 54		'West.'
			iS	23 02		
			i	23 51		
			i	24 27		
	CALCUTTA	N	iP	04 16 35	4910	Slight
			iS	23 12		
	BOKARO	N,E	iP	04 16 59	5190	Slight. First movement West
			eS	23 49		
	CHATRA	Z	iP	04 17 03	5200	Slight
		E	eP			
			iS	23 54		
	COLOMBO	E	P	04 17 06	5240	
			S	23 59		
			M	41 30		Amp. ≥0.2 mm
	MADRAS	E	eS	04 24 08		Moderate
			e	27 36		Initial phases
			e	34 32		lost

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
September 1957						
27 Contd.	HYDERABAD	E	iP	04 17 34	5640	First movement West.
			PP	19 33		
			PPP	20 55		
			PcS	22 43		
			iS	24 50		
			SS	28 20		
			SSS	29 49		
		N	Lr	31 47		
		E	Lr	31 55		
		N	M	35 16		Per. ≥16 secs μ ≤ 5
		E	M	35 58		Per. ≥18 secs μ ≤ 4
	KODAIKANAL	E	iP	04 17 40	5310	First movement East
			PP	19 37		
			iS	24 37		
			SS	27 55		
			SSS	29 10		
			M	35 28		Per. ≥ 6 secs μ ≤ 4
	POONA	Z	iP	04 18 04	6140	Slight
		E	PcP → PP	18 49 →		20 10
		N,E	eS	25 47		
		E	PS	26 03		
			SSS	32 55		
	DEHRA DUN	N,E	eP	04 18 12	6140	Slight
		N	PPP	21 28		
			iS	25 55		
			SSS	31 40		
			Lr	34 16		
			M	38 49		
	BOMBAY	N,E	eP	04 18 13	6300	Slight
		E	PP	20 35		
			PPP	21 45		
		N,E	eS	26 05		
		E	PS	26 13		
			e	26 19		
			PPS	26 25		
		N,E	e	28 34		
			e	36 30		
		N	e	38 47		
27	SHILLONG	Z	iP	04 26 51		Moderate, distant Compression
27	SHILLONG	Z	eP	05 09 37		Slight, distant
27	CHATRA	Z	i	05 09 44		Feeble, distant
27	SHILLONG	Z	e	05 31 38		Slight, distant
27	SHILLONG	Z	iP	06 00 01		Slight, distant Compression
27	Epc: 1°S. 127°E. Spice Islands aftershock H = 05h 56m 50s (U.S.C.G.S)					
	TOCKLAI	E	eP	06 04 50		Slight
	SHILLONG	Z	iP	06 04 55	4810	Slight
		E	eP			
		E	iS	11 23		Compression
	BOKARO	N,E	eP	06 05 29	5220	Slight
			eS	12 21		
	CHATRA	Z	iP	06 05 29	5220	Slight
		E	eP			
			iS	12 21		
	MADRAS	E	iP	06 05 41	5420	Slight. First movement West
			PP	07 37		
			PPP	08 33		
			iS	12 44		
			PS	12 52		
			PPS	12 58		
			SS	16 08		
27	POONA	Z	iP	06 06 24	6280	Slight
		E	PPP	10 07		
			eS	14 15		
	DEHRA DUN	N,E	e(P)	06 06 40	6140	Slight
			i(S)	14 23		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
27 Contd.	BOMBAY	E	eP	06	06	41	6300	Very Slight
			PP		08	55		
			PPP		10	17		
			e		14	21		
		N,E	eS		14	33		
		E	PS		14	45		
			e		17	21		
27	SHILLONG	Z	eP	06	08	14		Slight, distant
27	SHILLONG	Z	iP	06	35	09		Slight, distant Rarefaction
27	SHILLONG	Z	eP	07	08	21		Slight, near
			e		08	54		
27	CHATRA	Z	i	07	27	26		Slight, distant
27	SHILLONG	Z	iP	09	37	57		Slight, distant Rarefaction
27	SHILLONG	Z	iP	11	28	35		Slight, distant Compression.
	CHATRA	Z	e	11	28	47		Feeble, distant
27	CHATRA	Z	iP	11	54	39		Slight
		E,Z	i		55	09		
	SHILLONG	Z	eP	11	55	33		Slight, distant
27	SHILLONG	Z	eP	12	51	28		Slight, distant
27	SHILLONG	Z	iP	13	52	10		Slight, distant Compression
27	SHILLONG	Z	e	14	27	14		Slight, distant
			e		27	36		
	CHATRA	Z	e	14	27	51		Feeble, distant
27	SHILLONG	Z	iP	15	18	44		Slight, distant Rarefaction
27	SHILLONG	Z	iP	18	54	04		Slight, distant Rarefaction
27	SHILLONG	Z	eP	18	59	18		Slight, distant
27	SHILLONG	Z	eP	20	53	06		Slight, distant
28	Epc: 30½°N, 137½°E. Off South Coast of Honsu, Japan h about 500 Kms. • H = 00h 27m 31s (U.S.C.G.S) Magnitude = 6¾ (Pasadena).							
	TOCKLAI	E	iP	00	34	12		Moderate. First movement East
	SHILLONG	Z,E	iP	00	34	32	4060	Moderate. First movement East
		E	pP		35	11		Rarefaction
			i		36	16		
			S		40	02		
			sS		41	18		
			i		43	34		
	CHATRA	E,Z	iP	00	35	00	4300	Slight
		E	iS		40	58		
	PORT BLAIR	E	iP	00	35	11	4530	Slight
			iS		41	22		
	DEHRA DUN	N,E	eP	00	35	51	5000	Slight
		N	iS		42	30		
			PPS		42	47		
			SS		44	48		
			SSS		46	15		
28	HYDERABAD	E	iP	00	36	21	5540	First movement East
			PP		37	50		
			PPP		39	21		
			PcS		41	53		
			iS		43	31		
			e		45	21		
			ScS		46	12		
			SS		46	44		
			Lr		50	20		
		N	Lr		50	25		
		E	M		54	02		Per. ≥15 secs
		N	M		55	27		Per. ≥18 secs

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
28 Contd.	MADRAS	E	iP	00	36	25	5590	Moderate. First movement East
			PcP		37	33		
			PP		38	23		
			PPP		39	23		
			iS		43	38		
			PPS		43	51		
			ScS		45	45		
			SS		47	07		
			Lq		48	51		
	COLOMBO	E	P	00	36	26		
			e		43	57		
			e		51	51		
			e		55	53		Amp. ≥0.1 mm
	POONA	Z	iP	00	36	45	5910	Slight
		E	PP		38	47		
			PcS		41	20		
			iS		44	15		
			PS		44	52		
			PPS		45	33		
			ScS		45	46		
			SSS		50	09		
	BOMBAY	E	iP	00	36	51	5980	Slight
			PcP		37	53		
			pP		38	25		
			PP		39	09		
			PPP		40	17		
			iS		44	25		
	KODAIKANAL	E	iP	00	36	57	6220	Slight. First movement East
			PP		38	57		
			iS		44	45		
28	SHILLONG	Z	e	00	39	27		Slight, distant
			e		43	43		
28	SHILLONG	Z	eP	02	31	59		Slight, distant
28	SHILLONG	Z	iP	03	34	36		Moderate, distant Rarefaction
28	SHILLONG	Z	iP	04	20	26		Slight, distant Compression
	DEHRA DUN	N,E	e	04	22	04		Tremor
28	SHILLONG	Z	iP	05	01	11		Slight, distant
			i		02	40		Compression
28	SHILLONG	Z	iP	06	08	17		Slight, distant Rarefaction
28	SHILLONG	Z	i	06	28	53		Slight, distant Rarefaction
28	SHILLONG	Z	eP	13	06	39		Slight, near
			i		06	52		
28	SHILLONG	Z	iP	13	46	07		Slight, distant Rarefaction
28	Epc: 20½°S, 178°W. Fiji Islands. h about 650 Kms • H = 14h 20m 00s (U.S.C.G.S) Magnitude = 7¼ (Pasadena), 7-7¼ (Berkeley)							
	PORT BLAIR	E	iP	14	32	17		Moderate
			iS		41	57		
			e		42	35		
	TOCKLAI	E	eP	14	32	32		Moderate
			i		37	42		
			iS		42	10		
	SHILLONG	Z,N,E	iP	14	32	38	10670	Moderate. First movement East and South Rarefaction.
		E	pP		35	04		
			sP		35	57		
			PP		36	47		
			PPP		39	19		
		E,N	iSKS		42	18		
		E	iS		42	51		
			PS		45	58		
			PPS		46	23		
			sSKS		46	48		
			sS		47	08		
			i		47	36		
			i		48	19		
			SS		50	18		
			SSS		54	17		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
28 Contd.	CALCUTTA	E	iP	14	32	49		Moderate
			e		36	00		
			i		37	09		
	COLOMBO	E	P	14	33	01		
			e		37	26		
			e		42	47		
			e		46	21		
			e		51	41		Amp. ±5.5 mm
	CHATRA	E,Z	eP	14	33	01		Slight
		E	iS		42	41		
	MADRAS	E	iP	14	33	10		Moderate
			e		33	31		First movement
			e		35	45		East
			e		37	22		
			iS		42	01		
			e		42	34		
			e		42	46		
			e		43	43		
			e		44	48		
			e		46	11		
			e		49	09		
	KODAIKANAL	E	iP	14	33	21		First movement
			e		36	12		East
			e		37	57		
			iS		43	03		
			e		44	03		
			e		48	03		
			e		51	12		
			e		53	45		
			e		57	33		
			e	15	04	06		Per. ±15 secs
								μ ±14
	HYDERABAD	N	PKP1	14	33	34		
			e		37	53		
			e		43	03		
			e		44	37		
			e		47	14		
			e		51	00		
			e		52	21		
			e		58	01		
			e	15	11	50		
			e		20	08		Per. ±21 secs
								μ ±16
	POONA	Z	eP	14	33	43		Slight
			i		37	33		Distant
	DEHRA DUN	N,E	eP	14	33	54		Moderate
		N	i		38	11		
			e		38	45		
			e		39	29		
			e		40	46		
			e		43	19		
	BOKARO	N,E	eP	14	35	04		Moderate
		N	iS		42	46		
			e		43	27		
			e		44	00		
			e		53	32		
			e		57	19		
	BOMBAY	E	eP	14	36	09	12060	Moderate
			pP		38	29		
		N	e		38	42		
		N,E	PP		40	25		
			PPP		43	26		
		E	e		44	37		
		N,E	e		45	28		
			SKS2		47	42		
		N	e		48	13		
		E	iS		48	23		
		N	eS		48	27		
		E	PS		50	08		
		N,E	PPS		51	04		
			SS		53	47		
		E	e		58	08		
28	DEHRA DUN	N,E	e	16	00	13		Tremor
28	SHILLONG	Z	eP	16	01	09		Slight, distant
28	CHATRA	Z	eP	16	27	14	890	Slight
			iS		28	46		
28	SHILLONG	Z	iP	17	26	20		Moderate
								Distant
								Rarefaction
28	SHILLONG	Z	eP	18	34	51		Slight, near
			i		35	08		
28	SHILLONG	Z	iP	18	53	44		Slight, distant
								Rarefaction
28	SHILLONG	Z	eP	21	11	52		Slight, distant
	CHATRA	Z	i	21	12	26		Feeble
29	SHILLONG	Z	eP	00	28	28		Slight, near
			e		28	41		
			e		28	57		
29	SHILLONG	Z	eP	03	18	25		Slight, near
			i		18	30		
29	Epc: 0°, 124°E. Celebes. h about 200 km H ± 06h 37m 33s (U.S.C.G.S)							
	SHILLONG	Z	iP	06	44	52		Slight
			i		46	56		Compression
	CHATRA	Z	iP	06	45	07		Feeble
	DEHRA DUN	N,E	eP	06	46	34		Tremor
29	CHATRA	Z	i	06	47	09		Feeble, near
29	Epc: 25°S, 178½°E. South of Fiji Islands h about 600 Kms. H=08h 12m 22s (U.S.C.G.S) Magnitude = 6½ (Berkeley)							
	PORT BLAIR	E	iP	08	25	32		Slight
			iS		35	10		
	SHILLONG	Z	iP	08	26	00		Slight
		N	eP					
		Z	i		29	43		Rarefaction
			e		30	03		
			i		35	43		
	CHATRA	Z	iP	08	26	22		Slight
		E	iS		36	03		
	TOCKLAI	E	e	08	29	59		Slight
			i		35	34		
	POONA	Z	ePKP	08	30	10		Slight
		E	e		31	39		
			e		32	27		
			i		36	41		
			e		36	47		
			e		36	51		
			e		40	15		
	COLOMBO	E	e	08	30	26		
			e		36	01		
			e		43	01		
			e		45	01		Amp ±0.1 mm
	MADRAS	E	iPKP	08	30	37		Slight. First
			e		32	01		movement East
			e		32	21		
			e		33	10		
			i		36	11		
			e		36	51		
			e		38	24		
			e		38	58		
			e		40	10		
			e		40	37		
			e		42	55		
	KODAIKANAL	E	e	08	31	02		Tremor
	HYDERABAD	E,N	i	08	31	07		
			i		36	27		
			e		37	16		
		E	e		40	42		Per. ± 9 secs
								μ ± 2
	DEHRA DUN	N,E	e	08	31	36		Feeble
			i		36	42		
			i		37	45		
	BOMBAY	N,E	e	08	31	41		Slight
			e		36	49		
			e		41	39		
29	SHILLONG	Z	eP	13	40	28		Slight, distant

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
September 1957								
29 Contd.	SHILLONG	Z	e	14	22	07		Slight, near
			i		22	45		
	DEHRA DUN	N,E	e	14	23	40		Tremor
29	SHILLONG	Z	eP	17	27	03		Slight, distant
			e		30	17		
29	SHILLONG	Z	iP	17	41	25		Slight, distant
			i		41	49		Rarefaction
	CHATRA	Z	i	17	42	26		Feeble, distant
	DEHRA DUN	N,E	e	17	43	35		Feeble
			e		50	52		
29	SHILLONG	Z	eP	17	46	56		Slight, distant
29	COLOMBO	E	L	18	01	53		
			M		05	01		Amp. ±0.1 mm
29	SHILLONG	Z	eP	19	54	48		Slight, near
			i		55	07		
30	SHILLONG	Z	iPg	03	09	00	120	Local, feeble
			iSg		09	14		Rarefaction
30	SHILLONG	Z	iPg	07	47	49	90	Local, feeble
		Z,E	iSg		48	00		Rarefaction
30	SHILLONG	Z	iP	08	36	51	360	Local, feeble
			iPg		37	01		Compression
		Z,E	iSg		37	45		
30	SHILLONG	Z	iP	11	12	01		Tremor Rarefaction
30	SHILLONG	Z	iP	12	14	46		Slight, distant Compression
	CHATRA	Z	i	12	15	20		Feeble, distant
30	SHILLONG	Z	i	12	28	34		Slight, distant
30	SHILLONG	Z	eP	14	23	13	160	Local, feeble.
			iPg		23	15		
			iSg		23	33		
	CHATRA	Z	iP	14	23	36	500	Feeble
			iS		24	29		
30	Epc: 24½°N, 143°E. Volcano Islands H: 20h 21m 30s (U.S.C.G.S)							
	SHILLONG	Z	iP	20	29	54		Slight Compression
	CHATRA	Z	iP	20	30	24		Slight
		E	eP					
	DEHRA DUN	N,E	eP	20	31	17	6470	Feeble
			iS		39	18		
	POONA	Z	iP	20	32	02		Very feeble.

Earthquake Reports
(Non Instrumental Reports)

The following is the list of earthquake reports that were received from Voluntary Observers from different places during the month of September 1957.

Places of Observation	Date in G.M.T.	Time in G.M.T. h. m.	Duration in secs	Intensity in R.F. scale	No. of shocks	Remarks
UPPER SHILLONG	02	21 02	2	IV	1	
SRINAGAR	02	21 28	30	VI	1	
TEZPUR	11	12 24	2	IV	1	
UPPER SHILLONG	22	03 30	3	IV	1	

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MICROSEISMIC TABULATION

September 1957.

STATION: SHILLONG Component - E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE IN mm	MEAN PERIOD IN SECS
01	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	3	0.6	4.5
	05	3	0.6	4.6
	06	3	0.5	4.3
	07	3	0.8	4.4
	08	3	0.5	4.3
	09	-	-	-
	10	2	0.6	4.4
	11	3	0.6	4.4
	12	3	0.4	4.3
	13	-	-	-
	14	2	0.8	3.7
	15	2	0.8	4.4
	16	2	0.5	4.2
	17	2	0.6	4.6
	18	2	0.8	4.5
	19	3	0.5	4.5
	20	3	0.6	4.0
	21	2	1.0	4.4
	22	2	0.5	4.5
	23	2	0.6	4.3
02	00	3	0.8	4.6
	06	3	1.5	5.4
	12	3	0.8	4.0
	18	-	-	-
03	00	3	1.0	4.4
	06	3	0.6	4.7
	12	3	0.6	4.3
	18	3	0.5	4.5
04	00	3	0.7	4.6
	06	-	-	-
	12	(0,0)	-	-
	18	3	0.8	4.4
05	00	3	0.6	4.5
	06	2	0.7	4.8
	12	-	-	-
	18	3	0.5	5.1
06	00	3	0.8	5.2
	06	3	0.8	4.7
	12	3	0.8	5.7
	18	3	0.5	5.1
07	00	2	1.2	4.5
	06	2	0.8	4.8
	12	2	1.0	5.0
	18	(0,0)	-	-
08	00	3	0.7	4.9
	06	3	0.8	5.6
	12	3	0.6	4.6
	18	3	1.2	4.5
09	00	-	-	-
	06	-	-	-
	12	3	1.0	4.7
	18	3	0.9	4.9
10	00	2	1.0	4.4
	06	-	-	-
	12	-	-	-
	18	2	0.9	4.5
11	00	2	0.9	4.5
	06	2	1.0	4.8
	12	2	1.0	4.3
	18	2	1.2	4.6
12	00	2	1.2	4.7
	06	2	1.2	4.5
	12	2	1.0	4.5
	18	2	1.2	5.3
13	00	2	1.5	5.1
	06	2	1.2	5.1
	12	2	1.2	4.9
	18	2	1.2	4.9
14	00	2	1.2	4.7
	06	2	1.3	4.9
	12	2	1.0	4.6
	18	2	0.8	4.8
15	00	2	0.8	4.3
	06	3	0.7	4.6
	12	3	1.0	4.8
	18	(0,0)	-	-
16	00	3	0.8	5.2
	06	2	0.8	5.8
	12	-	-	-
	18	2	1.0	4.7
17	00	3	0.8	4.8
	06	3	0.8	4.5
	12	3	0.7	4.4
	18	3	0.5	5.0
18	00	3	1.2	5.1
	06	3	0.7	4.8
	12	3	0.8	4.5
	18	(0,0)	-	-
19	00	2	1.0	5.0
	06	-	-	-
	12	2	1.2	4.7
	18	3	0.8	4.8
20	00	2	1.2	5.0
	06	(0..)	-	-
	12	3	0.8	4.4
	18	(0..)	-	-
21	00	(0,0)	-	-
	06	3	0.8	4.5
	12	3	0.8	4.5
	18	3	0.8	4.9
22	00	2	1.2	4.6
	06	2	1.0	4.9
	12	2	1.0	4.3
	18	2	0.8	4.6
23	00	2	0.7	4.2
	01	2	0.7	4.4
	02	2	0.5	4.1
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	3	0.7	4.6
	12	-	-	-
	13	3	0.7	4.5
	14	3	0.7	4.5
	15	3	0.7	4.0
	16	3	1.0	4.8
	17	3	0.8	5.2
	18	-	-	-
	19	3	0.7	4.3
	20	3	0.7	4.7
	21	3	0.7	4.6
	22	3	0.7	4.4
	23	3	0.7	4.8
24	00	-	-	-
	01	3	0.5	4.5
	02	3	0.7	4.8
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	3	0.8	4.3
	13	3	0.5	4.1
24 Contd.	14	3	0.5	4.0
	15	3	0.5	4.3
	16	3	0.7	4.3
	17	3	0.7	4.5
	18	3	1.0	4.5
	19	3	1.0	4.5
	20	3	0.7	4.4
	21	3	0.8	4.8
	22	3	0.7	4.8
	23	3	0.8	5.2
25	00	-	-	-
	06	3	0.8	4.9
	12	3	0.7	4.7
	18	3	1.0	4.4
26	00	-	-	-
	06	3	0.8	5.0
	12	3	0.7	4.4
	18	3	0.5	4.3
27	00	3	0.6	4.2
	06	-	-	-
	12	3	0.8	4.3
	18	3	0.5	4.5
28	00	3	0.7	4.9
	06	3	0.5	4.4
	12	3	0.7	4.6
	18	-	-	-
29	00	2	1.0	4.5
	06	2	0.7	4.7
	12	2	0.8	4.7
	18	-	-	-
30	00	3	0.7	4.8
	01	3	0.8	4.6
	02	3	0.7	5.0
	03	(0,0)	-	-
	04	3	0.5	4.7
	05	3	0.5	4.7
	06	3	0.7	4.2
	07	3	0.7	4.8
	08	3	0.5	4.8
	09	(0..)	-	-
	10	3	0.5	4.6
	11	3	0.7	4.8
	12	3	0.7	4.8
	13	3	0.5	4.7
	14	3	0.7	4.5
	15	3	0.7	4.6
	16	3	0.5	4.8
	17	3	0.6	5.0
	18	2	0.8	4.7
	19	3	0.5	4.7
	20	3	0.7	4.8
	21	-	-	-
	22	3	0.8	4.5
	23	3	0.5	4.8

STATION: MADRAS.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE IN mm	MEAN PERIOD IN SECS
01	00	3	0.4	2.8
	01	3	0.4	3.0
	02	3	0.3	2.7
	03	3	0.3	2.6
	04	3	0.4	2.6
	05	3	0.4	2.5
	06	3	0.3	2.7
	07	3	0.4	2.5
	08	3	0.5	2.7
	09	3	0.5	2.8
	10	3	0.5	3.0
	11	3	0.5	2.7
	12	3	0.6	2.8
	13	3	0.7	2.8
	14	3	0.5	2.9
	15	3	0.6	2.9
	16	3	0.5	3.0
	17	3	0.5	2.9
	18	3	0.5	2.7
	19	3	0.5	2.7
	20	3	0.4	2.8
Contd.	21	3	0.5	3.1
	22	3	0.5	2.9
	23	3	0.4	3.0
02	00	3	0.4	2.9
	03	3	0.6	3.1
	06	3	0.5	3.0
	12	3	0.5	3.1
	18	3	0.5	3.5
03	00	3	0.5	4.0
	03	3	0.5	3.9
	06	3	0.5	3.9
	12	3	0.6	4.2
	18	3	0.5	4.0
04	00	3	0.5	4.1
	03	1	0.7	4.4
	06	1	0.7	4.5
	12	1	0.5	4.4
	18	1	0.5	4.5
05	00	1	0.5	4.2
	03	3	0.6	4.2
	06	3	0.5	4.1
	12	3	0.5	4.1
	18	3	0.4	4.2
06	00	3	0.4	3.7
	03	1	0.4	2.4
	06	1	0.6	2.3
	12	3	0.4	2.5
	18	3	0.4	3.7
07	00	1	1.1	2.7
	03	3	0.7	2.4
	06	3	0.4	2.7
	12	3	0.4	2.9
	18	3	0.4	2.9
08	00	3	0.5	3.0
	03	1	0.8	3.0
	06	1	0.6	2.9
	12	1	0.8	3.0
	18	1	0.8	3.1
09	00	1	0.7	3.1
	03	3	0.6	3.1
	06	3	0.7	3.0
	12	1	0.9	2.8
	18	1	0.9	3.0
10	00	1	1.2	2.8
	03	1	1.2	2.8
	06	1	1.0	2.9
	12	3	0.8	2.8
	18	3	0.7	2.9
11	00	3	0.6	2.8
	03	3	0.5	2.8
	06	3	0.5	2.8
	12	1	0.6	2.9
	18	1	0.7	2.9
12	00	3	0.5	2.9
	03	3	0.5	3.1
	06	3	0.5	3.1
	12	3	0.5	3.1
	18	3	0.5	3.0
13	00	3	0.5	3.0
	03	3	0.4	2.9
	06	3	0.5	3.0
	12	3	0.5	3.1
	18	3	0.5	3.2
14	00	3	0.4	3.3
	03	3	0.5	3.3
	06	3	0.4	3.3
	12	3	0.4	3.3
	18	3	0.5	3.2

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm	MEAN PERIOD IN SECS
STATION: MADRAS (Contd.)				
15	00	3	0.4	3.2
	03	3	0.3	3.3
	06	3	0.3	3.3
	12	3	0.3	3.3
	18	3	0.3	3.5
16	00	3	0.3	3.1
	03	3	0.2	3.0
	06	3	0.3	2.5
	12	1	0.5	2.3
	18	3	0.4	2.3
17	00	3	0.3	2.3
	03	3	0.3	2.2
	06	3	0.2	2.2
	12	3	0.2	2.3
	18	3	0.2	2.4
18	00	3	0.3	2.2
	03	3	0.4	2.0
	06	3	0.4	1.9
	12	3	0.4	2.3
	18	3	0.3	2.0
19	00	3	0.3	2.1
	03	3	0.5	2.5
	06	3	0.4	2.5
	12	3	0.4	2.5
	18	3	00.4	2.5
20	00	3	0.4	2.6
	03	3	0.5	2.4
	06	3	0.5	2.6
	12	3	0.5	2.8
	18	3	0.5	2.8
21	00	3	0.5	2.8
	01	3	0.5	2.7
	02	3	0.4	2.5
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	3	0.5	2.8
	07	3	0.6	2.8
	08	3	0.6	2.9
	09	3	0.6	2.7
	10	3	0.5	2.8
	11	3	0.6	2.8
	12	3	0.6	2.8
	13	3	0.5	2.7
	14	3	0.5	2.8
	15	3	0.5	2.6
	16	3	0.6	2.6
	17	3	0.5	2.7
	18	3	0.5	2.6
	19	3	0.5	2.7
	20	3	0.5	2.6
	21	3	0.5	2.6
	22	3	0.5	2.5
	23	3	0.6	2.6
22	00	3	0.5	2.7
	01	3	0.5	2.7
	02	3	0.5	2.7
	03	3	0.5	2.6
	04	3	0.4	2.5
	05	3	0.4	2.5
	06	3	0.5	2.6
	07	3	0.5	2.5
	08	1	0.7	2.6
	09	1	0.7	2.7
	10	1	0.7	2.6
	11	3	0.6	2.6
	12	3	0.8	2.6
	13	3	0.8	2.7
	14	3	0.7	2.7
	15	3	0.8	2.6
	16	3	0.6	2.6
	17	3	0.7	2.5
	18	3	0.5	2.5
	19	3	0.7	2.5
	20	3	0.6	2.5
	21	3	0.5	2.6
	22	3	0.6	2.5
	23	3	0.5	2.5
23	00	3	0.5	2.5
	01	3	0.5	2.5
	02	3	0.5	2.6
23 Contd.	03	3	0.5	2.6
	04	3	0.5	2.7
	05	3	0.5	2.5
	06	3	0.6	2.7
	07	3	0.5	2.6
	08	3	0.5	2.5
	09	3	0.5	2.5
	10	3	0.7	2.7
	11	3	0.6	2.5
	12	3	0.7	2.6
	13	3	0.5	2.6
	14	3	0.6	2.6
	15	3	0.6	2.7
	16	3	0.5	2.6
	17	3	0.6	2.6
	18	3	0.7	2.6
	19	3	0.5	2.7
	20	3	0.5	2.6
	21	3	0.5	2.5
	22	3	0.5	2.5
	23	3	0.5	2.5
24	00	3	0.5	2.6
	01	3	0.4	2.5
	02	3	0.5	2.5
	03	3	0.4	2.5
	04	3	0.4	2.5
	05	3	0.4	2.5
	06	3	0.4	2.5
	07	3	0.4	2.6
	08	3	0.5	2.5
	09	-	-	-
	10	-	-	-
	11	3	0.4	2.4
	12	3	0.5	2.5
	13	3	0.4	2.5
	14	3	0.5	2.5
	15	3	0.5	2.6
	16	3	0.4	2.6
	17	3	0.4	2.5
	18	3	0.5	2.5
	19	3	0.5	2.5
	20	3	0.5	2.5
	21	3	0.4	2.6
	22	3	0.4	2.5
	23	3	0.4	2.5
25	00	3	0.3	2.6
	01	3	0.3	2.5
	02	3	0.3	2.4
	03	3	0.3	2.5
	04	3	0.4	2.5
	05	3	0.4	2.6
	06	3	0.4	2.5
	07	3	0.4	2.5
	08	3	0.4	2.8
	09	3	0.3	2.6
	10	3	0.3	2.6
	11	3	0.4	2.8
	12	3	0.3	2.8
	13	3	0.4	2.7
	14	3	0.4	2.7
	15	3	0.3	2.7
	16	3	0.3	2.7
	17	3	0.3	2.6
	18	3	0.3	2.6
	19	3	0.3	2.7
	20	3	0.3	2.6
	21	3	0.3	2.6
	22	3	0.3	2.8
	23	3	0.3	2.7
26	00	3	0.3	2.7
	01	3	0.3	2.6
	02	3	0.4	2.7
	03	-	-	-
	04	3	0.3	2.6
	05	3	0.3	2.7
	06	3	0.3	2.8
	07	3	0.3	2.9
	08	3	0.3	2.9
	09	3	0.3	2.7
	10	3	0.3	2.7
	11	3	0.3	2.8
	12	3	0.3	2.7
	13	3	0.3	2.7
	14	3	0.3	2.7
	15	3	0.2	2.8
	16	3	0.2	2.6
	17	3	0.2	2.6
26 Contd.	18	3	0.2	2.6
	19	0,0	-	-
	20	0,0	-	-
	21	0,0	-	-
	22	0,0	-	-
	23	0,0	-	-
27	00	0,0	-	-
	03	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
28	00	0,0	-	-
	03	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
29	00	0,0	-	-
	03	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
30	00	0,0	-	-
	03	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
STATION: BOMBAY. Component: E-W				
01	00	2	1.0	3.5
	01	2	1.0	3.9
	02	2	1.1	3.5
	03	2	1.1	3.2
	04	2	1.3	3.2
	05	2	1.3	3.8
	06	2	1.2	3.2
	07	2	1.1	3.4
	08	2	1.1	3.8
	09	2	1.1	3.5
	10	2	1.1	3.3
	11	2	1.2	3.9
	12	2	1.4	3.4
	13	-	-	-
	14	2	1.2	3.3
	15	2	1.2	3.5
	16	2	1.1	3.6
	17	2	1.3	3.6
	18	2	1.3	3.6
	19	2	1.1	3.2
	20	2	1.3	3.3
	21	2	1.3	3.3
	22	2	1.1	3.4
	23	2	1.4	3.5
02	00	2	1.2	3.3
	06	2	1.7	3.3
	12	2	1.3	3.6
	18	2	1.2	3.6
03	00	2	1.3	3.8
	06	2	1.3	3.7
	12	2	1.1	3.4
	18	2	0.9	2.8
04	00	2	0.9	3.3
	06	2	1.1	3.3
	12	2	0.7	3.2
	18	-	-	-
05	00	2	0.7	3.4
	06	2	0.9	4.0
	12	2	-	-
	18	2	0.7	3.2
06	00	2	0.5	3.3
	06	2	0.9	3.8
	12	2	0.9	4.8
	18	2	0.7	4.3
07	00	2	0.8	4.3
	06	2	1.0	4.2
	12	2	0.7	4.5
	18	2	0.9	4.2
08	00	2	0.8	4.3
	06	2	0.7	4.0
	12	2	0.9	4.4
	18	-	-	-
09	00	-	-	-
	06	2	0.9	4.2
	12	2	0.9	4.0
	18	2	0.8	3.9
10	00	2	0.9	3.8
	06	2	0.9	3.7
	12	2	0.9	4.0
	18	2	0.8	3.8
11	00	2	0.9	3.6
	03	-	-	-
	06	2	0.9	3.8
	09	-	-	-
	12	2	0.9	3.5
	15	1	1.1	3.0
	18	1	1.1	3.0
	21	1	1.3	3.2
12	00	1	1.3	3.1
	03	1	1.3	3.0
	06	1	1.5	3.2
	09	1	1.5	3.0
	12	1	1.5	3.3
	15	1	1.9	3.3
	18	1	1.9	3.2
	21	1	2.1	3.1
13	00	1	1.7	3.4
	03	1	1.9	3.2
	06	1	1.9	3.3
	09	1	1.7	3.3
	12	1	2.0	3.4
	15	1	2.1	3.4
	18	1	2.3	3.6
	21	1	2.1	3.2
14	00	1	1.9	3.6
	03	1	1.7	3.5
	06	1	2.0	3.6
	09	1	1.7	3.4
	12	1	1.9	3.5
	15	1	1.5	3.4
	18	1	1.4	3.4
	21	1	2.1	3.2
15	00	1	1.2	3.6
	03	-	-	-
	06	1	1.1	3.8
	09	1	0.9	3.5
	12	1	0.9	3.8
	15	-	-	-
	18	2	0.8	3.8
16	00	2	0.8	3.9
	06	2	0.7	3.8
	12	2	0.7	3.9
	18	2	0.7	3.7
17	00	2	0.7	3.9
	06	2	0.6	4.0
	12	2	0.8	3.9
	18	2	0.5	4.0
18	00	2	0.5	4.0
	06	2	0.5	3.9
	12	2	0.7	4.3
	18	2	0.5	4.0
19	00	2	0.5	4.1
	06	2	0.7	5.0
	12	2	0.5	4.1
	18	2	0.7	4.0
20	00	2	0.5	4.0
	06	2	0.5	4.1
	12	2	0.5	3.7
	18	2	0.7	3.5
21	00	2	0.7	3.6
	06	2	0.7	3.5
	12	2	0.7	3.8

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DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS
STATION: BOMBAY (Contd.)																			
22	00	2	0.7	3.7	30	05	-	-	-	12	00	-	-	-	30	00	-	-	-
	06	2	0.7	3.6	Contd.	06	-	-	-		06	1	0.0	-		06	1	0.0	-
	12	2	0.7	3.9		07	-	-	-		12	-	-	-		12	1	0.0	-
	18	2	0.7	3.8		08	-	-	-		18	-	-	-		18	-	-	-
						09	-	-	-										
23	00	2	0.6	3.6		10	-	-	-	13	00	-	-	-		Component: N-S.			
	01	2	0.6	3.5		11	-	-	-		06	1	0.0	-					
	02	2	0.7	3.6		12	-	-	-		12	-	-	-	01	00	1	0.0	-
	03	2	0.6	3.7		13	-	-	-		18	-	-	-		01	1	0.0	-
	04	2	0.7	3.7		14	-	-	-							02	1	0.0	-
	05	2	0.7	3.7		15 to 23 No record.				14	00	-	-	-		03	1	0.0	-
	06	2	0.6	3.6							06	1	0.0	-		04	1	0.0	-
	07	2	0.7	3.6	STATION: COCHIN						12	-	-	-		05	1	0.0	-
	08	2	0.5	3.7	Component: E-W.						18	-	-	-		06	1	0.0	-
	09	2	0.6	3.5												07	1	0.0	-
	10	2	0.7	3.6	01	00	-	0	-	15	00	-	-	-		08	1	0.0	-
	11	2	0.6	3.6		01	-	0	-		06	-	-	-		09	1	0.0	-
	12	2	0.5	3.5		02	-	0	-		12	-	-	-		10	1	0.0	-
	13	2	0.5	3.8		03	-	0	-		18	-	-	-		11	1	2.1	0.9
	14	2	0.7	3.8		04	-	0	-							12	1	1.0	1.7
	15	2	0.6	3.7		05	2	-	-	16	00	-	-	-		13	1	1.3	1.0
	16	2	0.7	3.7		06	1	0.0	-		06	1	0.0	-		14	1	0.0	-
	17	2	0.5	3.5		07	1	0.0	-		12	-	-	-		15	1	0.0	-
	18	2	0.5	3.3		08	2	0.0	-		18	-	-	-		16	1	0.0	-
	19	2	0.7	3.4		09	1	0.0	-							17	1	0.0	-
	20	2	0.7	3.5		10	2	0.0	-	17	00	-	-	-		18	1	0.0	-
	21	2	0.5	3.6		11	1	4.1	0.8		06	1	0.0	-		19	1	0.0	-
	22	2	0.5	3.6		12	1	0.0	-		12	-	-	-		20	1	0.0	-
	23	2	0.5	3.5		13	1	0.0	-		18	-	-	-		21	1	0.0	-
						14	-	-	-							22	1	0.0	-
24	00	2	0.5	3.7		15	3	0.0	-	18	00	-	-	-		23	1	0.0	-
	01	2	0.5	3.5		16	3	0.0	-		06	1	0.0	-					
	02	2	0.6	3.7		17	2	-	-		12	-	-	-	02	00	1	0.0	-
	03	2	0.7	3.3		18	2	-	-		18	-	-	-		06	1	0.0	-
	04	2	0.7	3.4		19	2	-	-							12	1	0.0	-
	05	2	0.7	3.6		20	-	0	-	19	00	-	-	-		18	1	0.0	-
	06	2	0.7	3.1		21	-	0	-		06	3	1.9	1.2					
	07	2	0.6	3.6		22	2	-	-		12	-	-	-	03	00	1	0.0	-
	08	2	0.7	3.6		23	-	0	-		18	-	-	-		06	1	0.0	-
	09	-	-	-												12	2	-	-
	10	-	-	-	02	00	-	0	-	20	00	-	-	-		18	-	0	-
	11	-	-	-		06	3	0.0	-		06	1	1.8	1.5					
	12	2	0.6	3.4		12	2	-	-		12	-	-	-	04	00	-	0	-
	13	2	0.6	3.6		18	-	0	-		18	-	-	-		06	1	0.0	-
	14	2	0.5	3.3												12	1	0.0	-
	15	2	0.7	3.2	03	00	-	0	-	21	00	-	-	-		18	1	0.0	-
	16	2	0.7	3.6		06	1	0.0	-		06	1	0.0	-					
	17	2	0.7	3.4		12	2	-	-		12	3	0.0	-	05	00	1	0.0	-
	18	1	0.6	3.2		18	-	0	-		18	1	0.8	-		06	1	0.0	-
	19	1	0.7	3.3												12	1	0.0	-
	20	1	0.7	3.4	04	00	-	0	-	22	00	3	0.0	-		18	1	0.0	-
	21	1	0.8	3.2		06	1	0.0	-		06	1	0.0	-					
	22	1	0.7	3.4		12	1	0.0	-		12	1	0.0	-	06	00	1	0.0	-
	23	1	0.7	3.4		18	1	0.0	-		18	1	0.0	-		06	1	0.0	-
																12	-	-	-
25	00	1	0.6	3.3	05	00	-	0	-	23	00	1	0.0	-		18	-	-	-
	03	-	-	-		06	1	0.0	-		06	1	0.0	-					
	06	1	0.8	3.3		12	-	0	-		12	1	0.0	-	07	00	-	-	
	09	1	0.7	3.4		18	-	0	-		18	1	0.0	-		06	-	-	-
	12	1	0.5	3.7												12	-	-	-
	15	1	0.5	3.5	06	00	-	0	-	24	00	1	0.0	-		18	-	-	-
	18	1	0.6	3.6		06	3	0.0	0.7		06	3	0.0	-					
	21	1	0.5	3.5		12	1	0.0	-		12	1	0.0	-	08	00	-	-	-
						18	1	0.0	-		18	1	0.0	-		06	-	-	-
26	00	1	0.7	3.6												12	-	-	-
	06	2	0.5	3.5	07	00	-	-	-	25	00	-	-	-		18	-	-	-
	12	2	0.5	3.4		06	1	1.3	0.7		06	1	0.0	-					
	18	2	0.5	3.5		12	-	-	-		12	-	-	-	09	00	1	1.3	0.9
						18	-	-	-		18	-	-	-		06	1	0.0	0.9
27	00	2	0.5	3.5						26	00	-	-	-		12	-	-	-
	06	2	0.5	3.3	08	00	-	-	-		06	-	-	-		18	-	-	-
	12	2	0.5	3.5		06	-	-	-		12	-	-	-					
	18	2	0.3	3.8		12	-	-	-		18	-	-	-	10	00	-	-	-
						18	-	-	-							06	1	0.0	-
28	00	2	0.5	3.8						27	00	-	-	-		12	-	-	-
	06	-	-	-	09	00	-	-	-		06	1	0.0	-		18	-	-	-
	12	2	0.4	3.6		06	1	0.0	0.9		12	-	-	-					
	18	2	0.3	3.7		12	-	-	-		18	-	-	-	11	00	-	0	-
						18	-	-	-	28	00	-	-	-		06	3	0.0	-
29	00	2	0.3	3.8							06	1	0.0	-		12	-	-	-
	06	2	0.3	3.9	10	00	-	-	-		12	-	-	-		18	-	-	-
	12	2	0.5	4.1		06	3	0.0	-		18	-	-	-					
	18	2	0.5	3.9		12	-	-	-						12	00	-	-	-
						18	-	-	-	29	00	-	-	-		06	1	0.0	-
30	00	2	0.4	3.8							06	-	-	-		12	-	-	-
	01	2	0.4	3.5	11	00	-	0	-		12	-	-	-		18	-	-	-
	02	2	0.3	3.5		06	3	0.0	-		18	-	-	-					
	03	2	0.4	3.4		12	-	-	-										
	04	2	0.4	3.7		18	-	-	-										

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DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS

STATION: COCHIN Component: N-S. (Contd.).

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS
13	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
14	00	-	0	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
15	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
16	00	1	0.0	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
17	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
18	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
19	00	-	-	-
	06	3	2.1	1.1
	12	-	-	--
	18	-	-	-
20	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
21	00	-	-	-
	06	-	-	-
	12	1	0.0	-
	18	1	0.0	-
22	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
23	00	-	0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
24	00	1	0.0	-
	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
25	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
26	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	--
27	00	-	-	-
	06	1	0.0	-
	12	1	-	-
	18	-	-	-
28	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
29	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	1	0.0	-
	12	1	0.0	-
	18	-	-	-

Component: Vertical.

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE IN mm.	MEAN PERIOD IN SECS
01	00	-	0	-
	01	-	0	--
	02	-	0	-
	03	-	0	-
	04	-	0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	1.0	0.7
	09	1	0.0	-
	10	1	2.3	0.8
	11	1	4.1	0.9
	12	1	1.1	0.7
	13	1	1.2	0.7
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	0	-
	18	-	0	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
02	00	-	-	-
	06	-	-	-
	12	1	2.1	1.0
	18	1	2.9	0.8
03	00	-	0	-
	06	1	2.3	0.7
	12	2	-	-
	18	-	-	-
04	00	-	0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
05	00	1	0.0	-
	06	1	0.0	-
	12	1	4.2	0.9
	18	-	0	-
06	00	-	0	-
	06	1	2.7	0.7
	12	1	0.0	-
	18	1	0.0	-
07	00	-	0	-
	06	1	2.2	0.7
	12	-	-	-
	18	-	-	-
08	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
09	00	-	-	-
	06	1	1.8	0.7
	12	-	-	-
	18	-	-	-
10	00	-	-	-
	06	1	0.9	-
	12	-	-	-
	18	-	-	-
11	00	-	-	-
	06	3	0.0	-
	12	-	-	-
	18	-	-	-
12	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
13	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
14	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
15	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
16	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
17	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
18	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
19	00	-	-	-
	06	3	1.9	1.0
	12	-	-	-
	18	-	-	-
20	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
21	00	-	--	--
	06	1	0.0	-
	12	1	0.0	2
	18	1	0.0	-
22	00	-	0	-
	06	1	0.0	4
	12	1	0.0	-
	18	1	0.0	-
23	00	2	-	-
	06	1	0.0	4
	12	3	0.0	2
	18	-	0	-
24	00	1	0.0	-
	06	3	0.0	-
	12	3	0.0	-
	18	-	0	-
25	00	-	-	--
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
26	00	-	-	-
	06	3	0.0	2
	12	-	-	-
	18	-	-	-
27	00	3	0.0	-
	06	3	0.0	-
	12	-	-	-
	18	-	-	-
28	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
29	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	1	0.0	-
	12	1	0.0	-
	18	-	-	-

STATION: PORT BLAIR

Milne shaw Seismograph

Component: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE (MICRON)	MEAN PERIOD IN SECS
01	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
02	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
03	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
04	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
05	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
06	00	0	-	-
	06	3	1.6	5.0
	12	3	1.4	5.0
	18	3	1.2	5.0
07	00	3	1.6	5.4
	06	3	1.6	5.0
	12	...	-	-
	18	...	-	-
08	00	...	-	-
	06	3	1.2	5.2
	12	3	1.2	5.3
	18	3	1.2	5.3
09	00	3	1.2	5.0
	06	...	-	-
	12	...	-	-
	18	3	1.2	5.2
10	00	1	1.6	4.8
	06	1	1.2	4.4
	12	1	1.6	5.3
	18	...	-	-
11	00	...	-	-
	06	1	2.0	5.1
	12	1	2.0	5.1
	18	1	2.0	5.0
12	00	1	2.0	5.0
	06	...	-	-
	12	...	-	-
	18	...	-	-
13	00	...	-	-
	06	...	-	-
	12	...	-	-
	18	...	-	-
14	00	...	-	-
	06	1	2.4	7.5
	12	1	2.4	7.5
	18	1	2.4	7.5
15	00	1	2.4	7.5
	06	1	2.4	7.5
	12	1	1.3	6.7
	18	1	1.3	6.7
16	00	1	0.8	6.7
	06	1	0.8	6.6
	12	0	-	-
	18	0	-	-
17	00	0	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-

International Seismological Centre From the ISC collection scanned by SISMOS

STATION: PORT BLAIR (Contd.) Component: E-W. Milne Shaw Seismograph

DATE	HOUR G.M.T	K	GROUND MOTION (MICRON)	MEAN PERIOD SECS
18	00	0	-	-
	06	0	-	-
	12	0	-	-
	18	1	1.2	4.0
19	00	1	1.2	4.0
	06	1	1.2	3.8
	12	1	0.8	3.9
	18	1	0.8	3.9
20	00	1	2.0	7.2
				4.5
	06	1	2.8	4.2
	12	1	2.8	4.2
	18	1	2.8	4.2
21	00	1	2.8	4.2
	01	1	2.8	4.2
	02	1	2.8	4.2
	03	1	2.8	4.2
	04	1	2.8	4.2
	05	1	2.8	4.2
	06	1	2.4	4.8
	07	1	2.8	5.0
	08	1	2.8	5.0
	09	1	2.4	4.2
	10	1	2.4	4.2
	11	1	2.4	4.2
	12	1	2.4	4.2
	13	3	1.6	4.2
	14	3	1.6	4.2
	15	3	1.6	4.2
	16	3	1.6	4.2
	17	3	1.6	4.2
	18	3	1.6	4.2
	19	3	1.6	4.2
	20	3	1.6	4.2
	21	3	1.6	4.2
	22	3	1.6	4.2
	23	3	1.6	4.2
	24	3	1.6	4.2
22	00	3	2.4	4.2
	01	...	-	-
	02	...	-	-
	03	...	-	-
	04	...	-	-
	05	...	-	-
	06	3	2.4	4.5
	07	3	2.4	4.5
	08	3	2.4	4.5
	09	3	2.4	4.5
	10	3	1.6	4.5
	11	3	1.6	4.5
	12	3	1.6	4.5
	13	3	1.6	4.5
	14	3	1.6	4.5
	15	3	1.6	4.5
	16	3	1.6	4.5
	17	3	1.6	4.5
	18	3	1.6	4.2
	19	3	1.6	4.2
	20	3	1.6	4.2
	21	3	1.6	4.7
	22	3	1.6	4.2
	23	3	1.6	4.2
	24	3	1.6	4.2
23	00	3	1.6	4.4
	01	3	1.6	4.4
	02	3	2.4	4.5
	03	3	2.4	4.5
	04	3	2.4	4.5
	05	3	2.4	4.5
	06	3	2.0	4.5
	07	3	2.0	4.5
23 Contd.	08	3	2.0	4.5
	09	3	2.0	4.5
	10	3	2.0	4.5
	11	3	2.0	4.5
	12	3	2.0	4.5
	13	3	2.0	4.5
	14	3	2.0	4.5
	15	3	2.0	4.5
	16	3	2.0	4.5
	17	3	2.0	4.5
	18	3	2.0	4.5
	19	3	1.6	4.1
	20	3	1.6	4.1
	21	3	1.6	4.1
	22	3	1.6	4.1
	23	3	1.6	4.1
	24	3	1.6	4.1
24	00	3	1.2	3.6
	01	3	1.2	3.6
	02	3	1.2	3.6
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
25	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
26	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	3	2.6	7.5
	05	3	2.6	7.5
26 Contd.	06	3	2.6	7.5
	07	3	2.6	7.5
	08	3	2.6	7.5
	09	3	1.8	7.5
	10	3	1.8	7.5
	11	3	1.8	7.5
	12	3	1.8	7.5
	13	3	1.8	7.5
	14	3	1.8	7.5
	15	3	1.8	7.5
	16	3	1.8	7.5
	17	3	1.8	7.5
	18	3	1.8	7.5
	19	3	1.8	7.5
	20	3	1.8	7.5
	21	3	1.2	7.5
	22	3	1.3	7.5
	23	3	1.3	7.5
	24	3	1.3	7.5
27	00	3	1.2	7.5
	01	3	1.3	7.5
	02	3	1.3	7.5
	03	3	1.3	7.5
	04	3	1.3	7.5
	05	3	1.3	7.5
	06	3	1.3	7.5
	07	3	1.2	7.4
	08	3	1.2	7.5
	09	3	1.2	7.5
	10	3	1.2	7.5
	11	3	1.2	7.5
	12	3	1.2	7.5
	13	3	1.2	7.5
	14	3	1.2	7.5
	15	3	1.2	7.5
	16	3	1.2	7.5
	17	3	1.2	7.5
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
28	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
29	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
29 Contd.	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
30	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-

International Seismological Centre From the ISC collection scanned by SISMOS

GEOPHYSICAL LABORATORY
Bengal Engineering College
Howrah, India*

Analysis of Microseismic Movements. Station: HOWRAH.
Lat.22°33' N, Long. 88°19' E.
Foundation: Alluvium. Month: September 1957.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN SECS
COMPONENT: VERTICAL.				
01	00		1.0	3.0
	06		1.6	3.1
	12		1.2	3.3
	18		1.1	3.6
02	00		0.9	3.1
	06		0.6	3.4
	12		0.7	3.3
	18		0.5	3.4
03	00		0.8	3.5
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
04	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
05	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
06	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
07	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
08	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
09	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		0.4	3.3
10	00		0.5	3.6
	06		0.4	3.3
	12	0..	-	-
	18		0.7	3.2
11	00		0.8	3.4
	06		1.1	3.3
	12		-	-
	18		-	-
12	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
13	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
14	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
15	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
16	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
17	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
18	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
19	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
20	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
21	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
22	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
23	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
24	00	0..	-	-
	06		2.6	3.1
	12		2.9	3.2
	18		1.8	3.1
25	00		1.9	3.0
	06		1.7	3.0
	12		1.6	3.0
	18		1.9	2.9
26	00		1.2	2.8
	06		2.3	3.1
	12		2.0	3.1
	18		1.3	3.1
27	00		1.3	3.1
	06		1.8	3.3
	12		1.3	3.0
	18		1.3	2.8
28	00		1.0	3.1
	06		1.6	2.3
	12	0..	-	-
	18		1.1	2.7
29	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
30	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
COMPONENT: E-W.				
01	00		3.0	2.8
	06		3.0	3.1
	12		3.3	3.3
	18		2.1	3.0
02	00		2.2	2.9
	06	0..	-	-
	12	0..	-	-
	18		2.0	3.2
03	00		2.1	3.0
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
04	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
05	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
06	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
07	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
08	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
09	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
10	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.2	3.0
11	00		4.4	3.2
	06		4.6	2.8
	12		3.6	3.1
	18		3.4	3.2
12	00		3.4	3.2
	06	0..	-	-
	12		3.8	3.2
	18		2.8	3.4
13	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		3.0	3.5
14	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
15	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
16	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
17	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
18	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
19	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
20	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
21	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
22	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		2.8	3.2
23	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		2.1	2.8
24	00		2.8	2.6
	06		4.4	3.1
	12		2.9	2.9
	18		3.2	3.0
25	00		3.0	3.0
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
26	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
27	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
28	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
29	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
30	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-

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DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE (MICRON)	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE (MICRON)	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE (MICRON)	MEAN PERIOD IN SECS	DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE (MICRON)	MEAN PERIOD IN SECS
								COMPONENT: N-S.											
01	00		2.6	2.8	09	00		2.4	4.1	16	00	0..	-	-	24	00		2.4	3.0
	06		3.3	3.1		06	0..	-	-		06	0..	-	-		06		3.2	3.1
	12		4.7	3.4		12	0..	-	-		12	0..	-	-		12		3.6	3.0
	18		1.9	3.0		18	3	1.7	3.0		18	0..	-	-		18		3.0	3.0
								1.7	3.9										
02	00		2.0	2.9						17	00	0..	-	-	25	00		2.5	2.9
	06		1.8	2.8	10	00		2.0	3.4		06	0..	-	-		06		2.7	3.0
	12		2.2	3.4		06	0..	-	-		12	0..	-	-		12		1.6	3.0
	18		1.7	3.2		12		2.9	3.2		18	0..	-	-		18		1.8	3.0
						18		3.2	3.2										
03	00		1.9	3.3						18	00	0..	-	-	26	00		2.1	3.2
	06	0..	-	-	11	00		3.1	3.0		06	0..	-	-		06	0..	-	-
	12	0..	-	-		06		4.6	2.9		12	0..	-	-		12	0..	-	-
	18		1.4	3.1		12		3.3	3.1		18	0..	-	-		18		2.0	3.2
						18		2.6	3.3										
04	00		1.9	3.8						19	00	0..	-	-	27	00		1.8	3.3
	06	0..	-	-	12	00		3.5	3.1		06	0..	-	-		06	0..	-	-
	12	0..	-	-		06		3.3	3.1		12	0..	-	-		12	0..	-	-
	18		1.7	4.1		12		3.2	3.2		18	0..	-	-		18		1.5	3.3
						18		3.1	3.3										
05	00	0..	-	-						20	00	0..	-	-	28	00	0..	-	-
	06	0..	-	-	13	00		2.6	3.0		06	0..	-	-		06	0..	2.4	2.5
	12	0..	-	-		06		2.4	3.1		12	0..	-	-		12	0..	-	-
	18	0..	-	-		12	0..	-	-		18	0..	-	-		18		1.4	3.4
						18		2.0	3.3										
06	00	0..	-	-						21	00	0..	-	-	29	00	0..	-	-
	06	0..	-	-	14	00		1.9	3.8		06	0..	-	-		06	0..	-	-
	12	0..	-	-		06	0..	-	-		12	0..	-	-		12	0..	-	-
	18	00.	-	-		12		1.7	3.5		18		1.6	3.5		18		1.5	3.6
						18	0..	-	-										
07	00	0..	-	-						22	00	0..	-	-	30	00	0..	-	-
	06	0..	-	-	15	00	0..	-	-		06		1.8	3.3		06	0..	-	-
	12	0..	-	-		06	0..	-	-		12		2.0	3.1		12	0..	-	-
	18		1.6	4.0		12	0..	-	-		18		1.7	3.0		18	0..	-	-
						18		1.4	3.4										
08	00		1.8	3.5						23	00		1.8	2.7					
	06		2.0	3.9							06		2.3	2.9					
	12		2.0	4.0							12	0..	-	-					
	18		1.8	3.9							18		2.4	3.1					

* For IGY period only.

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S.Basu, M.Sc., F.N.I.,
Director General of Observatories

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Instruments and their Constants

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFI-CATION	DAMPING RATIO	PAPER SPEED mm/min
BOMBAY	Milne-Shaw	N	12	350	23:1	16
	Milne-Shaw	E	12	350	12:1	8
	Sprengnether	E	To=Tg=7	-	-	30
BOKARO	Milne-Shaw	N	12	250	20:1	16
	Milne-Shaw	E	12	250	20:1	16
	Wood-Anderson	E	0.8	960	h= 0.8	60
	Wood-Anderson	N	0.8	1000	h= 0.8	60
COLOMBO	Milne-Shaw	E	11.9	250	20:1	--
CALCUTTA	Milne-Shaw	E	12	250	20:1	8
	Wood-Anderson	N	2	870	Critical	30
	Omori-Ewing	N	16	32	-	25.4
	Omori-Ewing	E	21	30	-	25.4
CHATRA	Milne-Shaw	E	12	250	20:1	16
	Milne-Shaw	N	10	150	20:1	16
	Wood-Anderson	E	1	1000	30:1	60
	Wood-Anderson	N	1	1000	40:1	60
	Benioff Short Period	Z	To= .72 Tg= .45	-	Critical	60
	Wenner Accellerograph	ENZ	-	-	-	--
DEHRA DUN	Wood-Anderson	N	0.8	950	Critical	60
	Wood-Anderson	E	0.8	850	Critical	60
	Milne-Shaw	N	12	250	20:1	8
	Milne-Shaw	E	12	250	20:1	8
HYDERABAD	Milne-Shaw	E	12	250	20:1	8
	Milne-Shaw	N	12	250	20:1	8
KODAIKANAL	Milne-Shaw	E	10	250	20:1	8
MADRAS	Sprengnether	E	To=Tg= 7.4	-	-	30
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	30
	Wood-Anderson	E	4	1000	20:1	16
	Milne-Shaw	N	12	280	20:1	8
PORT BLAIR	Wood-Anderson	N	2	1000	20:1	30
SHILLONG	Wood-Anderson	N	0.8	1000	h = 0.8	30
	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Milne-Shaw	N	12	250	20:1	8
	Benioff	Z	To = 1.0 Tg = 0.18	-	-	60
	Sprengnether	E	To=Tg=6.8	-	-	30
	Wenner Accellerograph	ENZ	-	-	-	--
TOCKLAI	Wood-Anderson	E	0.8	970	h = 0.8	
VIZIANAGRAM	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Wood-Anderson	N	2	1000	20:1	30

List of Seismograph station

Station	Latitude	Longitude	Height a.s.l (Metres)	Lithographic foundation
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
BOKARO	23°50'N	85°48'E	-	Rock
COLOMBO	06°54'N	79°52'E	7	Beach Sand
CALCUTTA	22°32'N	88°22'E	(1) 7(Milne-Shaw)	Alluvium
			(2) 6(Omori-Ewing)	
CHATRA	26°50'N	87°10'E	161	Sand Stone
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
NEW DELHI	28°35'N	77°12'E	207	Massive Quartzite
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	-

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
October 1957								
01	SHILLONG	Z	eP	00	37	16		
01	SHILLONG	Z	iP	07	23	23		Distant Compression
01	DEHRA DUN	N,E	e	08	10	34		Feeble
01	CHATRA	Z	iP	08	12	12	1600	Feeble
			iS		14	53		
01	CHATRA	Z	iP	08	27	54	150	Slight
			iS		28	13		
01	SHILLONG	Z	i	17	10	15		
01	SHILLONG	Z	iP	18	36	52		
02	SHILLONG	Z	iPg	01	24	21		Feeble, local
02	CHATRA	Z	i	01	57	19		Feeble, near
02	SHILLONG	Z	iP	04	15	17		Slight, distant Compression
02	SHILLONG	Z	iPg	08	18	14		Feeble
		Z,E	iSg		18	26		
02	Epc: 5½°N, 127°E. Mindanao aftershock H = 11h 25m 02s (U.S.C.G.S)							
	SHILLONG	Z	iP	11	32	31		Slight Rarefaction
	CHATRA	Z	eP	11	33	07		Feeble
	MADRAS	E	e	11	52	46		Phases not clear
	POONA	Z	eP	11	34	23		
02	SHILLONG	Z	e	12	18	44		Tremor
02	CHATRA	Z	e	12	47	14		Feeble, distant
	SHILLONG	Z	e	12	47	15		Tremor
02	DEHRA DUN	N,E	e	13	54	58		Feeble.
02	Epc: 6½°S, 69½°E. Chagos Islands H = 20h 58m 39s (U.S.C.G.S)							
	KODAIKANAL	E	iP	21	03	00	2120	
			PP		03	18		
			PPP		03	30		
			iS		06	30		
			SS		06	57		
			SSS		07	09		
			Lr		07	27		
			M		09	03		Per. = 11 secs μ = 61
	MADRAS	E	iP	21	03	35	2420	Slight. First movement East
			PP		03	59		
			PPP		04	13		
			eS		07	32		
			Lq		07	43		
			SS		08	17		
			SSS		08	33		
			Lr		09	01		
			M		10	57		
	HYDERABAD	N	iP	21	04	08	2850	First movement North
			PP		04	35		
			PcP		07	08		
			iS		08	35		
			Lq		09	32		
			SS		09	44		
			SSS		10	11		
			Lr		10	50		
		E	Lr		10	59		
		N	PcS		11	08		
		E	M		12	30		Per. = 11 secs μ = 41
		N	M		12	59		Per. = 12 secs μ = 22
			ScS		14	20		
		E	ScS		14	32		
	POONA	Z	iP	21	04	08	2840	Slight
		N	PPP		04	55		
			PcP		07	41		
		N,E	iS		08	33		
		N	Lq		09	13		
			SSS		09	51		
	POONA	N	Lr	21	10	29		
			PcS		11	25		
			M		12	29		
			ScS		15	29		
	BOMBAY	N,E	eP	21	04	10	2850	
		N	PP		04	42		
		E	PP		04	48		
		N	PPP		04	59		
			eS		08	36		
		E	M		14	12		Per. = 11 secs μ = 3
		N	M		18	25		Per. = 10 secs μ = 5
	VIZIANAGRAM	N	eP	21	04	36		Slight
	BOKARO	N	eP	21	05	18	3790	Slight
			PP		06	41		
			PPP		07	00		
			eS		10	44		
			Lq/SS		14	07		
			SSS		14	37		
			M		18	59		
	PORT BLAIR	E	e	21	05	58		Slight
			e		09	39		
			e		10	09		
	CHATRA	Z	iP	21	05	53		Slight
		N	i		12	12		
	DEHRA DUN	N,E	eP	21	06	00	4100	Slight
		N	PP		07	21		
			iS		11	45		
			SS		14	13		
			SSS		14	41		
			Lr		15	56		
			M		18	32		
	SHILLONG	Z,N,E	iP	21	06	04	4250	Slight
		E	PPP		07	36		Compression
		N,E	iS		11	59		
			Lq		14	37		
03	SHILLONG	Z	eP	03	34	17		Slight, distant
03	CHATRA	Z	iPg	05	46	25	30	Feeble
			iSg		46	29		
03	Epc: 4°S, 134°E. New Guinea H = 05h 58m 12s. (U.S.C.G.S)							
	SHILLONG	Z	iP	06	07	09		Compression
	CHATRA	Z	i	06	07	37	5920	Slight
		E	eS		15	08		
	MADRAS	E	eP	06	07	58	6190	Feeble
			PP		10	05		
			PPP		11	23		
			ScP		12	37		
			eS		15	44		
			PPS		16	03		
			ScS		17	24		
	POONA	Z	eP	06	08	43		Very feeble
03	SHILLONG	Z	iP	13	17	25		Slight, near Compression
03	SHILLONG	Z	eP	13	32	12		Distant
03	CHATRA	Z	iPg	23	10	21	20	Feeble
			iSg		10	24		
	DEHRA DUN	N,E	e	23	48	51		Tremor
04	Epc: 11°N, 63°W. Near Coast of Venezuela. h about 60 Kms. H = 05h 26m 09s (Shillong) Magnitude = 6¾ (Pasadena), 7 (Berkeley).							
	POONA	Z	iPKP	05	45	13		
			i		47	12		
	CHATRA	Z	iPKP	05	45	18		
		E	i		49	30		
	SHILLONG	Z	iPKP	05	45	26		
		N,E	PP		48	12		
	BOKARO	N	e	05	46	02		Phases not clear
			e		48	02		
			i		49	00		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
04 Contd.	DEHRA DUN	N,E	e	05 46 42		Phases not clear
			e	53 17		
			i	58 24		
			i	59 55		
	BOMBAY	N,E	e	05 47 21		
	MADRAS	E	e	05 48 11		
			e	58 18		
			e	58 43		
			e	59 07		
			e	06 01 29		
			e	05 43		
	KODAIKANAL	E	e	05 48 11		Tremor
	HYDERABAD	E,N	e	05 48 49		
		N	M	06 38 41		Per. = 18 secs μ = 9
		E	M	38 46		Per. = 21 secs μ = 10
	CALCUTTA	E	i	05 49 00		
			e	06 00 22		
04	MADRAS	E	eP	07 13 34	280	Slight. Felt at Salem in Madras State (Press Report)
			eS	14 06		
	POONA	Z	iP	07 16 56		Very feeble
			i	17 04		
			i	17 13		
	SHILLONG	Z	e	07 32 58		Tremor
04	SHILLONG	Z	iP	19 45 45		Slight, distant Rarefaction
04	SHILLONG	Z	e	13 22 14		Tremor
04	SHILLONG	Z	iP	13 46 26		Slight, distant Rarefaction
04	SHILLONG	Z	e	16 35 08		
			i	35 38		
04	SHILLONG	Z	iP	22 31 24		Slight, distant Compression
05	SHILLONG	Z	iP	00 06 43		Distant Rarefaction
	CHATRA	Z	iP	00 06 53		Slight
		E	i	07 23		
05	SHILLONG	Z	iP	03 52 53	210	Feeble
			iSg	53 22		
05	SHILLONG	Z	iP	10 10 13	180	Feeble
		Z,E	iSg	10 37		
05	Epc: 34½°N, 26½°E. Near Isle of Crete H = 11h 36m 46s. (U.S.C.G.S)					
	CHATRA	Z	iP	11 45 56		Feeble
	SHILLONG	Z	iP	11 46 29		Slight Compression
05	SHILLONG	Z	iP	12 07 27		Slight, distant Rarefaction
05	SHILLONG	Z	eP	13 09 49		
05	SHILLONG	Z	eP	16 01 30		
05	Epc: 10¼°S, 122½°E. Timor Island Region H = 16h 05m 38s. (U.S.C.G.S)					
	SHILLONG	Z,E	iP	16 14 09	5030	Compression
		E	iS	20 50		
	CHATRA	Z	eP	16 14 40		Feeble
05	SHILLONG	Z	iP	21 06 26		Slight, distant Rarefaction.
05	SHILLONG	Z	e	21 06 52		
05	Epc: 38°N, 69½°E. Afghanistan-Tadzhik border. h about 100 kms: ca. H = 22h 40m 40s. (Shillong) H = 22h 40m 44s (U.S.C.G.S)					
October 1957						
05 Contd.	DEHRA DUN	N,E	e	22 43 14		Slight
		N	iS	44 59		
			SS	45 13		
			SSS	45 23		
			Se	45 33		
			Sg/M	45 59		
	CHATRA	Z	iP	22 45 00	2090	Slight
		E	iS	48 27		
	BOMBAY	N	e	22 45 05		Slight, deep
		E	e	45 15		
		N,E	e	45 35		
			e	48 40		
			e	49 05		
		E	e	50 58		
			i	51 23		
	POONA	Z	iP	22 45 13	2160	Slight
		N,E	iS	48 46		
			Lq	48 54		
		N	M	51 39		
			PcS	52 55		
	HYDERABAD	N	iP	22 45 34	2440	Slight
			PP	46 04		First movement
			iS	49 33		North
			SS	49 54		
			Lr	51 00		
		E	M	52 00		Per. = 5 secs μ = 3
		N	M	52 06		Per. = 9 secs μ = 5
	SHILLONG	Z,N,E	iP	22 45 44	2670	Moderate
		E	pP	46 03		Rarefaction
		N,E	iS	49 47		
		E	sS	50 27		
	TOCKLAI	E	e	22 45 47		Slight
	VIZIANAGRAM	E	e	22 45 54		Slight
	CALCUTTA	N	e	22 45 58		Moderate
			iS	49 42		
			SS	50 19		
			SSS	50 35		
	MADRAS	E	e(S)	22 51 03		Moderate
			e	51 23		
			e	51 30		
			i	54 30		
			e	54 37		
			e	55 00		
			e	55 13		
			e	55 28		
			e	57 08		
06	SHILLONG	Z,E	iP	01 47 51	370	Feeble
		Z	iSg	48 46		
06	SHILLONG	Z,E	iPg	01 52 22	90	Feeble
		E	iSg	52 38		
06	SHILLONG	Z	e	04 32 22		
06	SHILLONG	Z	e	04 45 16		Feeble, local.
			e	45 18		
06	SHILLONG	Z	iP	06 30 53		Slight, near Compression
06	SHILLONG	Z	eP	06 33 11		Feeble, near
			e	33 51		
06	SHILLONG	Z	eP	08 06 17		Slight, distant
06	SHILLONG	Z	e	08 40 59		
06	SHILLONG	Z	e	08 41 35		
06	SHILLONG	Z	iP	09 51 15		Feeble, local
06	SHILLONG	Z	e	11 21 24		
			e	22 41		
06	SHILLONG	Z	eP	12 07 08		Slight, distant
			e	07 52		
06	CHATRA	Z	iPg	14 44 44	110	Feeble
			iSg	44 59		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
06	SHILLONG	Z	e	16 06 52		Slight
			e	07 23		distant
06	Epc: 49½°N, 155°E. Northern Kurile Islands. h about 60 km. H = 21h 27m 51s (U.S.C.G.S)					
	SHILLONG	Z	iP	21 37 15		Rarefaction
	CHATRA	Z	iP	21 37 32		Feeble
	POONA	Z	iP	21 39 08		
06	Epc: 52°N, 174°W. Adreanof Islands, Aleutian Islands H = 23h 27m 00s (U.S.C.G.S)					
	SHILLONG	Z	eP	23 38 32		Slight
	CHATRA	Z	i	23 38 42		Feeble
07	SHILLONG	Z	iP	00 44 60		
07	SHILLONG	Z	e	00 46 32		
07	CHATRA	Z	iP	02 41 16	820	Slight
		E	iS	42 41		
	SHILLONG	Z	e	02 41 57		
07	SHILLONG	Z	iP	02 43 29		Slight, distant
07	SHILLONG	Z	iPg	02 43 55		Feeble, local
07	SHILLONG	Z	eP	05 22 15		Distant
	CHATRA	Z	e	05 22 24		Feeble, distant
07	SHILLONG	Z	iP	07 42 13		Slight, distant Compression
07	SHILLONG	Z	e	07 47 03		Tremor
07	SHILLONG	Z	eP	08 02 39		Slight, distant
07	SHILLONG	Z	eP	09 50 26		Tremor
07	SHILLONG	Z	iP	10 05 39		
07	SHILLONG	Z	iP	12 31 36		Slight, distant Compression
	CHATRA	Z	i	12 32 09		Feeble
07	Epc: 51°N, 159°E. Off South east Coast of Kamchatka. H = 13h 19m 45s (U.S.C.G.S)					
	SHILLONG	Z, E	iP	13 29 32		Compression
	CHATRA	Z	iP }	13 29 46		Slight
		E	eP }			
			e	54 37		Surface Waves
	CALCUTTA	E	iP	13 30 06		Slight
			e	34 01		
			e(S)	38 36		
	DEHRA DUN	N, E	eP	13 30 16	7030	Feeble
			eS	38 48		
	HYDERABAD	E	iP	13 31 03	7920	First movement 'West'
			iS	40 21		
			M	58 51		Per. ±15 secs μ = 4
		N	M	59 03		Per. ±12 secs μ = 4
	POONA	Z	iP	13 31 20	8300	Slight
		E, N	eS	40 56		
	MADRAS	E	e	13 31 20		Feeble
			e	41 02		
			e	14 06 51		
	BOMBAY	E	M	14 07 --		
07	SHILLONG	Z	iP	14 27 32	190	Feeble
			iSg	38 02		
07	SHILLONG	Z	eP	16 28 17		Feeble, near
07	CHATRA	Z	iPg	20 49 04	110	Feeble
			iSg	49 19		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
07	DEHRA DUN	N, E	e	21 26 19		Feeble
			i	26 37		
	CHATRA	Z	iP	21 27 42		Feeble
			i	29 01		
	SHILLONG	Z	eP	21 29 15		Tremor
07	SHILLONG	Z	iPg	22 47 08		Feeble, local
07	SHILLONG	Z	iP	23 48 18		Slight, distant Rarefaction
08	SHILLONG	Z	iP	01 34 55		Slight, distant Compression
	CHATRA	Z	i	01 35 31		Feeble
08	CHATRA	Z	e	03 46 23		Feeble, distant
08	SHILLONG	Z	eP	03 50 52		
08	CHATRA	Z	iP	05 38 22		Slight
		E, Z	i	38 51		
08	SHILLONG	Z	iP	06 23 07		Compression
08	CHATRA	Z	iP	06 54 14		Feeble
			i	54 43		
08	CHATRA	Z	e	07 13 14		Feeble, distant
	SHILLONG	Z	eP	07 13 19		
08	SHILLONG	Z	eP	17 23 05		Slight, distant
	TOCKLAI	E	e	17 23 45		Slight, distant
08	SHILLONG	Z	i	17 23 59		
08	DEHRA DUN	N, E	e	23 01 46		Tremor
09	SHILLONG	Z	iP	04 38 22		Rarefaction
09	SHILLONG	Z	iP	16 45 05		Slight, distant Rarefaction
09	SHILLONG	Z	eP	17 05 50		Tremor
09	TOCKLAI	E	e	17 37 45		Slight, distant
	SHILLONG	Z	iP	17 38 17		Slight, distant Compression
09	SHILLONG	Z	eP	17 53 13		
09	SHILLONG	Z	iP	18 13 32		
09	SHILLONG	Z	iP	21 31 35		
09	SHILLONG	Z	iPg	21 54 13	100	Feeble
			iSg	54 25		
09	SHILLONG	Z	iPg	22 24 04	80	Feeble
			iSg	24 13		
09	SHILLONG	Z	iP	22 33 48		Rarefaction
09	SHILLONG	Z	iP	23 03 35		Slight, distant Rarefaction
09	CHATRA	Z	i	23 04 07		Feeble
10	POONA	Z	eP	01 56 06		
10	DEHRA DUN	N, E	e	02 19 28		Feeble
			i	19 47		
10	SHILLONG	Z	eP	03 51 01		Tremor
10	Epc: 52°N, 174½°W. Adreonof Islands, Aleutian Islands H = 05h 44m 32s (U.S.C.G.S)					
	SHILLONG	Z	iP	05 56 01		Rarefaction
	CHATRA	Z	i	05 56 13		Feeble
	POONA	Z	iP	05 57 26		
			i	57 39		
10	CHATRA	Z	i	07 03 18		Feeble
	SHILLONG	Z	iP	07 03 35		Slight, distant Rarefaction

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
10	Epc: 52°N, 174°W. Adreanof Islands, Aleutian Islands H = 07h 38m 18s (U.S.C.G.S)					
	CHATRA	Z	iP	07 49 57		Slight
		E	i	50 09		
	SHILLONG	Z	iP	07 49 57		Compression
	POONA	Z	iP	07 51 12		
			i	51 22		
10	SHILLONG	Z	eP	11 58 18		
10	SHILLONG	Z	i	17 23 33		
10	SHILLONG	Z	i	17 25 00		
10	DEHRA DUN	N,E	e	18 10 42		Tremor
10	CHATRA	Z	iP	18 12 15		Feeble
			i	15 13		
10	SHILLONG	Z	eP	18 14 01		
10	SHILLONG	Z	iP	19 00 50		Distant Compression
	CHATRA	Z	i	19 06 02		Feeble, distant
	DEHRA DUN	N,E	e	19 16 24		Feeble
10	SHILLONG	Z	eP	22 51 17		
11	SHILLONG	Z	eP	00 33 33		
11	SHILLONG	Z	eP	16 22 01		
			e	23 24		
11	POONA	Z	iP	19 48 49		
			i	49 26		
	DEHRA DUN	N,E	e	19 50 11		Feeble
			e	53 02		
	SHILLONG	Z	eP	19 50 48		
11	POONA	Z	eP	20 47 53		
			i	48 26		
	SHILLONG	Z	iP	20 48 16		Slight, distant Rarefaction
	DEHRA DUN	N,E	e	20 48 24		Tremor
11	SHILLONG	Z,N,E	iPg	22 19 12	80	Feeble
		N,E	iSg	19 23		
	TOCKLAI	E	eP	22 19 14		Slight, near
	CHATRA	Z	iP	22 20 14	630	Slight
			iS	21 20		
	DEHRA DUN	N,E	e	22 34 25		Feeble
			i	36 07		
11	CHATRA	Z	iP	22 36 08		Slight
		E	i	41 05		
	SHILLONG	Z	eP	22 37 49		
	POONA	Z	eP	22 38 19		
			e	38 44		
	CALCUTTA	E	e	23 09 36		Tremor
12	TOCKLAI	E	eP	00 08 40		Slight, near
	SHILLONG	Z,N,E	iP	00 08 48	670	Feeble, near
		N,E	iPg	09 14		Compression
			iS	09 58		
			iSg	10 32		
	CHATRA	Z	iP	00 09 47		Slight
		E	i	13 35		
12	SHILLONG	Z,E	iPg	00 39 41	90	Feeble
		Z	iSg	39 51		
12	SHILLONG	Z	e	07 27 30		Tremor
			e	28 42		
			e	29 21		
12	SHILLONG	Z	iP	09 51 09		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
12	SHILLONG	Z	iP	17 32 46		
12	Epc: 7°S, 111°E. Off the Coast of Java H = 18h 57m 10s (Shilleng) Epc: 8°S, 111°E. Near South Coast of Java H = 18h 57m 02s (U.S.C.G.S)					
	PORT BLAIR	E	iP	19 03 40	3380	Slight
			pP	04 03		
			iS	08 40		
			sS	09 18		
	MADRAS	E	iP	19 04 13	3990	Slight, First movement West
			PP	05 35		
			PPP	05 58		
			iS	09 51		
			ScP	10 00		
			Lq	12 21		
			SSS	12 55		
			Lr	14 17		
	SHILLONG	Z,N,E	iP	19 04 24	4850	Slight
		E	PP	05 46		Compression
			PPP	06 04		
			iS	10 07		
			PcS	10 40		
			SSS	12 52		
	KODAIKANAL	E	iP	19 04 24	4160	Slight
			PPP	06 12		
			iS	10 06		
	CALCUTTA	E	eP	19 04 26	3970	Slight
			eS	10 03		
	TOCKLAI	E	eP	19 04 28		Slight
	BOKARO	N	iP	19 04 39	4300	Slight
			PP	07 54		
			PPP	08 24		
			iS	10 36		
			PS	10 43		
			PPS	10 47		
			SSS	14 02		
			i(?)	15 13		
			M	19 02		
	HYDERABAD	E	eP	19 04 44	4420	
			iS	10 49		
			Lr	16 28		
			M	19 58		Per. ≈ 21 secs A ≈ 6
		N	M	20 38		Per. ≈ 21 secs A ≈ 9
	CHATRA	Z	iP	19 04 51	4110	Slight
		E	iS	10 37		
	POONA	Z,N,E	iP	19 05 20	4850	Slight
		E	PPP	07 26		
		N,E	iS	11 51		
		N	PPS	12 06		
		N,E	SS	14 44		
		N	Lq	15 23		
			M	20 32		
	BOMBAY	N,E	eP	19 05 33	5000	Very slight
			eS	12 12		
	DEHRA DUN	N,E	eP	19 05 53	5290	Slight
		N	PP	07 32		
			iS	12 49		
			SS	15 39		
			Lq	16 57		
			SSS	17 45		
			M	23 14		
12	SHILLONG	Z	iP	20 59 33		
12	SHILLONG	Z	iP	21 50 00		Slight, distant
			i	50 24		Rarefaction
12	SHILLONG	Z	iP	22 00 07		Feeble, near Rarefaction
12	SHILLONG	Z	i	22 01 36		
			i	01 40		
12	SHILLONG	Z	iP	22 13 13		Slight, distant
			i	14 52		Compression
12	SHILLONG	Z	iPg	22 55 29	120	Feeble
			iSg	55 43		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
13	DEHRA DUN	N,E	e	01 10 50		Tremor
13	DEHRA DUN	N,E	e	01 17 34		Tremor
13	CHATRA	Z	iPg	01 30 36	90	Feeble
			iSg	30 42		
13	Epc: 52½°N, 160°E. Off Southeast Coast of Kamchatka H = 04h 19m 17s (U.S.C.G.S)					
	SHILLONG	N,E	iP	04 29 05	6230	Slight
		E	iS	36 54		
	CHATRA	E,Z	eP	04 29 17		Slight
		E	i	39 22		
13	CALCUTTA	E	e	04 29 47		
			Mn	05 00 03		
	HYDERABAD	N	eP	04 30 49	7600	
			iS	39 51		
			PS	40 10		
			Lr	52 28		
			M	57 32		Per. = 17 secs μ = 10
	POONA	Z	iP	04 30 51	8130	Slight
		N	PcP	31 06		
		N,E	iS	40 19		
		N	PS	40 35		
			PPS	41 11		
			Lr	53 59		
	MADRAS	E	eP	04 30 52		Slight
			e	39 37		
			e	41 23		
	BOMBAY	N,E	eP	04 30 54	8220	Slight
			eS	40 26		
			SKS1	40 40		
			PPS	41 14		
			M	05 06 --		
13	SHILLONG	Z	e	10 32 38		Slight, near
			i	33 01		
13	SHILLONG	Z	eP	12 18 24		
13	SHILLONG	Z	eP	17 35 19		Slight, distant
13	DEHRA DUN	N,E	e	17 36 58		Feeble
			i	38 10		
13	SHILLONG	Z	eP	17 37 30		
13	SHILLONG	Z	iP	18 23 49		Feeble, near Compression
13	Epc: 60°s, 151°E. Antarctic Ocean, Southwest of Macquarie Island. H = 20h 33m 01s (U.S.C.G.S)					
	KODAIKANAL	E	e	20 57 06		Tremor
	MADRAS	E	e	20 56 13		Slight
			e	57 50		
			e	58 29		
			e	21 01 28		
			e	02 32		
			e	02 38		
			e	02 44		
			e	05 32		
	CALCUTTA	E	e	20 58 58		Slight
			i	21 04 51		
	BOKARO	N	e	20 50 45		Slight
			i	57 26		
	HYDERABAD	E	M	21 22 06		Per. = 15 secs μ = 3
	DEHRA DUN	N,E	e	20 58 10		Feeble
13	SHILLONG	Z	eP	21 34 54		Slight, near
			i	35 28		
14	SHILLONG	Z	eP	00 41 14		
14	SHILLONG	Z	iPg	00 47 38		Feeble, local

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
14	CHATRA	Z	iP	01 03 32		Slight
			i	04 51		
14	SHILLONG	Z	e	10 18 34		Tremor
14	SHILLONG	Z	eP	13 22 19		Slight, near
14	SHILLONG	Z	e	13 38 57		Tremor
14	SHILLONG	Z	iP	13 43 58		Slight, distant Compression
14	SHILLONG	Z	e	16 46 24		Tremor
14	SHILLONG	Z	iP	19 14 06		Compression
15	SHILLONG	Z	eP	03 21 11		Feeble, near
			i	21 42		
15	SHILLONG	Z	iP	04 21 49		Distant Rarefaction
15	SHILLONG	Z	iP	05 29 38		Slight, distant Compression
15	SHILLONG	Z	i	08 40 45		
15	CHATRA	Z	iP	11 42 32		Feeble
			i	42 57		
	SHILLONG	Z	eP	11 42 59		Slight, distant
			i	43 39		
15	SHILLONG	Z	eP	21 45 30		
15	SHILLONG	Z	eP	22 05 01		
15	SHILLONG	Z	i	22 45 38		
15	SHILLONG	Z	e	23 12 11		Tremor
16	KODAIKANAL	E	e	03 00 34		Tremor
16	SHILLONG	Z	eP	07 15 31		Slight, distant
			i	15 58		
16	SHILLONG	Z	iP	07 59 08		Slight, distant Compression
16	CHATRA	Z	eP	08 10 02	200	Feeble
			iS	10 26		
16	SHILLONG	Z	iP	10 38 02		Slight, distant Compression
	TOCKLAI	E	e	10 39 47		Slight, distant
	CHATRA	Z	i	10 39 58		Slight, distant
16	SHILLONG	Z	eP	11 28 26		
16	SHILLONG	Z	e	15 15 22		
			i	15 31		
16	SHILLONG	Z	iP	19 26 45		Slight, distant Rarefaction
			i	27 13		
	CHATRA	Z	iP	19 26 51		Feeble
			i	27 27		
16	SHILLONG	Z	iPg	20 38 35		Feeble, local
16	SHILLONG	Z	iP	21 19 32		Rarefaction
16	SHILLONG	Z	iP	21 48 37		Rarefaction
16	DEHRA DUN	N,E	e	22 41 26		Tremor
17	SHILLONG	Z	eP	01 57 14		
17	CHATRA	Z	iPg	04 27 03	10	Feeble
			iSg	27 04		
17	CHATRA	Z	iPg	04 43 34	20	Feeble
			iSg	43 37		
17	Epc: 21½°N, 79°E. Central India. Felt: Nagpur H = 05h 10m 05s (Shillong)					

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
17 Contd.	POONA	Z	eP	05 11 31	590	Slight
			i	11 49		
			i	11 54		
			iS	12 33		
			e	12 44		
			e	12 46		
			i	12 58		
	BOMBAY	N,E	e	05 13 17		
			e	13 23		
		E	e	14 10		Per. ≈ 4 secs μ ≈ 2
	DEHRA DUN	N,E	e(S)	05 13 55		
	CHATRA	Z	iP	05 12 12		Slight
		E,Z	iSg	15 15		
	SHILLONG	Z	eP	05 13 03	2020	Slight
			eS	15.24		
	KODAIKANAL	E	e	05 16 --		Tremor
17	SHILLONG	Z	iP	10.33 01		Slight Compression
17	SHILLONG	Z	eP	12.47 26		
17	SHILLONG	Z	iP	14 29 53		Slight, distant Rarefaction
17	SHILLONG	Z	eP	15 27 27		Slight, distant
	DEHRA DUN	N,E	e	15.41 11		Feeble
			i	.42 38		
	CHATRA	Z	eP	15 42 56		Slight
		E	i	.46 12		
	SHILLONG	Z	iP	15.43 47		Distant
17	SHILLONG	Z	e	16.41 05		
17	DEHRA DUN	N,E	e	19 19.43		Tremor
17	SHILLONG	Z	e	19.21 09		
17	SHILLONG	Z	e	20 56 28		
18	SHILLONG	Z	iP	01 12 44	140	Feeble
			iSg	13 01		
18	SHILLONG	Z	iPg	06.45 24		Feeble, local
			i	.45 27		
18	SHILLONG	Z	Z eP	07 51 46		
18	SHILLONG	Z	eP	07 57 40		
18	SHILLONG	Z	eP	08 04 50		
18	SHILLONG	Z	i	09.22 22		
			i	22.30		
18	SHILLONG	Z	iP	10.27 28		Feeble, near Compression
18	SHILLONG	Z	eP	17.26 43		
	CHATRA	Z	e	17.27 23		Slight
	DEHRA DUN	N,E	e	17.37 29		Feeble. Phases
			i	.44 38		not clear
18	SHILLONG	Z	iP	18 01 07		Distant Compression
	TOCKLAI	E	eP	18 01.22		Slight, distant
	CALCUTTA	E	e	18 01.46		Slight
			i	02.45		
	CHATRA	Z	eP	18 01.56		Slight
		E	i	05.27		
	PORT BLAIR	E	e	18 02.31		Slight
	BOKARO	N,E	e	18 06 18		Slight
18	SHILLONG	Z	iP	.23 19 46		Slight, distant Rarefaction
19	SHILLONG	Z	eP	05 04 19		
19	SHILLONG	Z	eP	06.40 15		
19	SHILLONG	Z	iP	13 43 17		Slight, distant Rarefaction
19	SHILLONG	Z	iP	15.49.39		Slight, distant Rarefaction
19	DEHRA DUN	N,E	e	16 13.32		
19	SHILLONG	Z	eP	16 16.20		
19	Epc: 23½°N, 122°E, Near East Coast of Formosa. Several killed at Hotsi and slight damage at Taipei. H ≈ 18h 28m 50s (U.S.C.G.S) Magnitude ≈ 6½-6¾ (Pasadena), 6¾ (Shillong).					
	TOCKLAI	E	eP	18.34.23		
			i	38 33		
	SHILLONG	Z,N,E	iP	18 34 47	3010	Compression
		N,E	PP	.35.23		
			PPP	.35 39		
			iS	.39 15		
			Lq	40 15		
			SSS	.40 53		
			M	43 37		
	CALCUTTA	E	iP	18 35 11	3700	First movement 'West'
			PP	.36.24		
			iS	40 31		
			PcS?	41 43		
			Lr	44 09		
			M	47 29		
	CHATRA	Z,E	iP	18 35 15	3810	
		E	iS	.40 42		
	BOKARO	N,E	iP	18.35 26	3570	
			eS	.40 39		
	VIZIANAGRAM	N	iP	18.35.58		First movement 'South'
	DEHRA DUN	N,E	eP	18.36 23	4280	
		N	PP	.37 26		
			PPP	.38 10		
			iS	.42 19		
			SS	.44 57		
			SSS	.45 22		
			Lr	.46 49		
			M	50 41		Per. ≈ 16 secs μ ≈ 78
	MADRAS	E	iP	18.36 36	4810	First movement 'West'
			PcP	.38 10		
			PP	.38 18		
			PPP	.38 58		
			iS	.43 04		
			PS	.43 09		
			PPS	.43 15		
			SS	.46 05		
			Lq	.46 55		
			SSS	.47 11		
			Lr	.49 04		
			M	.52 40		
	HYDERABAD	E	iP	18.36 38	4840	First movement 'West'
			PP	.38 11		
			PcS	.42 01		
			iS	.43 08		
			PPS	.43 24		
			SS	.45 50		
			Lr	.48 44		
			M	.52 57		Per. ≈ 16 secs μ ≈ 21
	KODAIKANAL	E	iP	18.37 08	5270	
			PP	.38 56		
			PPP	.39 47		
			iS	.44 02		
			SS	.47 17		
			SSS	.48 38		
			Lr	.50 49		
			M	.54 48		Per. ≈ 20 secs μ ≈ 16
	POONA	Z,N,E	iP	18.37 08	5150	First movement South: West and up.
		E	PcP	.38.23		
		N,E	PP	.38 52		
		N	PPP	.39 32		
		N,E	iS	.43 57		

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DATE	STATION	COMPT.	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
October 1957								
19 Contd.	POONA Contd.	N,E	PPS	18	44	12		
		E	ScS		46	34		
		N	SS		47	02		
		E	SSS		48	21		
		N,E	Lr		50	06		
			M		54	14		Per. ±17 secs μ ±40
	BOMBAY	N,E	eP	18	37	16	5210	
			PP		39	04		
		N	PPP		40	02		
		N,E	eS		44	07		
			PPS		44	27		
		N	SS		47	32		
		N,E	e		48	04		
		N	SSS		48	43		
			M		55	41		Per. ±16 secs μ ±18
		E	M		57	11		Per. ±13 secs μ ± 4
19	Epc: 44½°N, 146°E. Off North east Coast of Hokkaido Japan. h about 150 Kms. H. ± 21h 41m 59s (U.S.C.G.S) Magnitude: ± 6½-6¾ (Pasadena).							
	TOCKLAI	E	iP	21	50	03		First movement East
	SHILLONG	Z,N,E	iP	21	50	31	5310	Rarefaction
		E	pP		51	03		
			sP		51	37		
		N,E	PP		52	32		
			iS		57	00		
		E	eS		58	09		
	CHATRA	Z,E	iP	21	50	41	5570	
		E	iS		57	39		
	CALCUTTA	E	eP	21	50	58	5610	
			iS		58	04		
	DEHRA DUN	N,E	e(P)	21	51	14	6040	Phases not clear
			i(S)		58	38		
	MADRAS	E	eP	21	52	16	7220	
			PcP		52	53		
			PP		54	40		
			iS	22	00	43		
			PPS		01	13		
			ScS		01	56		
			SS		04	48		
	POONA	Z,E	iP	21	52	23	7200	
		N,E	iS	22	00	49		
	BOMBAY	N	eP	21	52	29	7250	
		N,E	eS	22	00	58		
19	SHILLONG	Z	iP	23	30	01		Slight, distant Compression
20	SHILLONG	Z	iP	06	06	45		Local, feeble
20	SHILLONG	Z	iP	06	44	34		Rarefaction
20	SHILLONG	Z	iP	09	40	04	160	Feeble
			iPg		40	10		
			iSg		40	24		
20	SHILLONG	Z	iP	10	42	42		Slight, distant Rarefaction
20	Epc: 11½°N, 42°W. Atlantic Ocean H. ± 12h 04m 22s (U.S.C.G.S)							
	BOMBAY	E	M	13	12	--		
	DEHRA DUN	N,E	e	12	23	36		Feeble
			i		29	36		
			i		32	52		
	HYDERABAD	E	M	13	04	55		Per. ±18 secs μ ± 6
	KODAIKANAL	E	e	12	30	11		
	MADRAS	E	e	12	29	24		Feeble
			e		31	58		
			e		33	58		
	CALCUTTA	E	e	12	30	25		
	SHILLONG	Z	ePKP	12	23	20		

DATE	STATION	COMPT.	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
October 1957								
20	SHILLONG	Z	iP	15	32	57		Tremor Rarefaction
20	SHILLONG	Z	iP	16	04	07		Rarefaction
20	SHILLONG	Z	eP	16	16	16		
20	SHILLONG	Z	eP	21	00	07		
20	SHILLONG	Z	iP	21	38	26		Slight, near Rarefaction
20	DEHRA DUN	N,E	e	21	48	38		
21	SHILLONG	Z	iP	00	29	37		Moderate, distant Rarefaction
21	SHILLONG	Z	eP	06	58	11		
21	SHILLONG	Z	i	09	49	01		
			i		49	14		
21	SHILLONG	Z	i	10	04	44		
21	SHILLONG	Z	iP	10	10	45		Compression
21	SHILLONG	Z	e	11	04	13		
21	SHILLONG	Z	iP	14	50	06	380	Slight
		Z,E	iS		50	46		Compression
	TOCKLAI	E	e	14	50	42		Slight
	CHATRA	Z	iP	14	50	54		Slight
		E	i		53	15		
	CALCUTTA	E	i	14	56	56		Slight, near
21	SHILLONG	Z	ePg	20	31	49	270	Feeble
			iSg		32	21		
22	SHILLONG	Z	iP	07	31	30		Feeble, near Rarefaction
			i		32	05		
22	SHILLONG	Z,N,E	iPg	09	02	15	40	Slight. Felt locally.
		N,E	iSg		02	20		
22	SHILLONG	Z	iP	09	50	29		Slight, distant Rarefaction
22	SHILLONG	Z	iPg	11	14	18	440	Feeble, near
	CHATRA	Z	iP	11	15	19	810	Feeble
			iS		16	43		
22	SHILLONG	Z	i	12	21	04		
22	DEHRA DUN	N,E	e	14	50	23		Tremor
22	SHILLONG	Z	eP	17	06	16		
22	SHILLONG	Z	iP	18	19	54	330	Feeble
		Z,N,E	iPg		19	56		
			iSg		20	35		
	CHATRA	Z	iP	18	20	15		Slight
			i		21	04		
22	SHILLONG	Z	eP	20	49	53		Distant
	CHATRA	Z	i	20	53	36		Slight, distant
23	Epc: 52½°N, 169½°W. Fox Islands, Aleutian Islands H. ± 05h 56m 52s (U.S.C.G.S) Magnitude: ± 6¼ (Pasadena), (Berkeley).							
	SHILLONG	Z,N,E	iP	06	08	35	8380	Compression
		E	PcP		08	49		
		N,E	iS		18	15		
		E	SKS		18	27		
			ScS		18	46		
			PS		18	52		
			SS		22	51		
	CHATRA	Z	iPg	06	08	45		
		E	ePg					
	DEHRA DUN	N,E	eP	06	08	56		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
23 Contd.	DEHRA DUN	N	eP	06 09 47	9460	
			PP	13 11		
			SKS1	20 05		
			eS	20 17		
			PPS	21 50		
		E	Lr	37 17		
		N	Lr	38 27		
		E	M	41 59		Per. = 18 secs μ = 7
		N	M	45 02		Per. = 21 secs μ = 13
	BOMBAY	N,E	eP	06 09 56		
			e	20 49		
		E	e	21 26		
	POONA	Z	iP	06 09 57		
		E	e	20 40		
			i	21 17		
		N	M	49 --		
	KODAIKANAL	E	e	06 43 22		Tremor
23	SHILLONG	Z	iP	11 51 21		Feeble, near. Rarefaction
24	POONA	Z	iP	00 11 15		Feeble
24	SHILLONG	Z	eP	00 11 42		
24	Epc: 14½°S, 167½°E. New Hebrides Islands. H = 00h 17m 37s (U.S.C.G.S) Magnitude = 6½ (Pasadena)					
	SHILLONG	Z,E	iP	00 30 13		Compression
		E	i	40 38		
	CALCUTTA	E	eP	00 30 31		
			i	42 09		
	MADRAS	E	e	00 34 12		
			e	42 07		
	KODAIKANAL	E	e	00 35 48		Tremor
24	SHILLONG	Z	eP	00 58 25		Feeble, near
24	SHILLONG	Z	iP	02 32 09		Compression
24	SHILLONG	Z	iP	04 15 13		Slight, distant Compression
24	DEHRA DUN	N,E	e	05 18 49		Tremor
24	SHILLONG	Z	iP	06 51 12		Slight, distant Compression
	CHATRA	Z	eP	06 52 06		Feeble
			i	53 26		
24	SHILLONG	Z	eP	09 20 16		
24	CHATRA	Z	eP	09 24 35		Slight
		E	i	30 28		
24	SHILLONG	Z	iP	17 01 50		Rarefaction
24	Epc: 29°S, 69°W. La Rioja Province, Argentina Moderate damage at Villa Castelli, Vinchina and jague. H = 20h 07m 17s (U.S.C.G.S)					
	DEHRA DUN	N,E	ePKP	20 27 11		Feeble
	CHATRA	Z	ePKP	20 27 15		Feeble
	SHILLONG	Z	iPKP	20 27 19		Rarefaction
24	DEHRA DUN	N,E	e	22 35 32		Feeble
			e	43 47		
25	SHILLONG	Z	iPg	00 21 27	130	Feeble
			iSg	21 42		
25	SHILLONG	Z,N,E	iPg	00 58 10		Slight. Felt locally
	CHATRA	Z	iP	00 59 10		Feeble
			i	01 00 26		
	DEHRA DUN	N,E	e	02 08 16		Feeble

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
25	CHATRA	Z	i	04 49 30		Feeble, near
25	CHATRA	Z	iPϕ	06 25 29		Slight
		E	ePϕ			
			e	30 54		
25	SHILLONG	Z,N,E	iP	07 58 09	190	Feeble
			iSg	58 34		
	CHATRA	Z	eP	07 58 46		Slight
			i	08 06 05		
25	DEHRA DUN	N,E	e	09 20 39		Tremor
25	Epc: 50½°N, 156½°E. Near South Coast of Kamchatka H = 10h 03m 32s (U.S.C.G.S) Magnitude = 6¾ (Pas), 6½ (Berk). e H = 10h 03m 37s (SHILLONG)					
	SHILLONG	Z,N,E	iP	10 13 04	5980	Compression
		E	PcP	14 16		
			PP	14 58		
			PcS	18 02		
		N,E	iS	20 38		
		E	ScS	23 00		
			SSS	24 12		
	CALCUTTA	E	eP	10 13 02		
			e	21 02		
			e	25 10		
	CHATRA	Z	iPϕ	10 13 17		
		E	ePϕ			
			e	21 34		
	BOKARO	N,E	iP	10 13 43	6610	
		N	eS	21 52		
			M	35 30		Per. = 20 secs μ = 33
	DEHRA DUN	N,E	eP	10 13 43	6530	
		N	iS	21 48		
			PPS	22 31		
			SS	25 31		
			Lr	30 48		
			M	35 59		
	HYDERABAD	N,E	iP	10 14 42	7570	First movement
		N	PcP	15 12		South and West
			PP	17 24		
		N,E	iS	23 42		
		N	PS	24 12		
			PPS	24 30		
			SKS1	24 43		
			SS	27 55		
			Lq	35 38		
		E	Lr	36 15		
			M	41 15		Per. = 21 secs μ = 16
		N	M	41 20		Per. = 18 secs μ = 15
	MADRAS	E	eP	10 14 54	7840	
			PcP	15 05		
			PP	17 37		
			eS	24 07		
			PS	24 41		
			PPS	24 59		
			SS	28 52		
			Lq	33 56		
	POONA	Z	iP	10 14 54	7830	First movement
		N	PP	17 28		Southeast and up.
		E	PPP	19 14		
		N,E	iS	24 07		
		N	PS	24 34		
		N,E	PPS	24 52		
		N	SS	28 35		
			Lr	36 57		
			M	40 46		
			Mn	49 --		Per. = 16 secs μ = 20
	BOMBAY	N,E	eP	10 15 00	7800	
		N	eS	24 11		
		E	e	24 34		
		N	PPS	24 58		
		E	M	49 37		Per. = 15 secs μ = 3
		N	M	49 55		Per. = 16 secs μ = 9

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
October 1957								
25	SHILLONG	Z	i	11	46	26		
			i		46	42		
25	SHILLONG	Z	iP	11	51	32		Slight, distant Compression
25	SHILLONG	Z	eP	12	58	23		
25	SHILLONG	Z	e	16	24	45		
25	SHILLONG	Z	e	19	09	26		
25	DEHRA DUN	N,E	e	19	15	29		Tremor
	SHILLONG	Z	iP	19	16	37		Slight, distant Compression
25	SHILLONG	Z	iPg	20	39	15	130	Feebie
			iSg		39	32		
25	DEHRA DUN	N,E	e	21	55	24		Tremor
25	SHILLONG	Z	iP	22	50	42		Compression Distant
25	SHILLONG	Z	i	22	57	28		
25	SHILLONG	Z	iPg	23	40	19	130	Feebie
			iSg		40	27		
26	SHILLONG	Z	iPg	01	27	06	120	Feebie
			iSg		27	20		
26	SHILLONG	Z	i	01	28	12		
26	Epc: 0°, 125°E. Molucca Passage H = 04h 31m 03s. (U.S.C.G.S)							
	SHILLONG	Z	iP	04	38	50		Compression
	CHATRA	Z	iP	04	39	25		Slight
		E	ePg					
	POONA	Z	iP	04	40	39		
	DEHRA DUN	N,E	eP	04	40	39		
26	SHILLONG	Z	eP	08	38	56		
26	SHILLONG	Z	iPg	10	55	31	70	Feebie
			iSg		55	38		
26	SHILLONG	Z	e	11	55	57		
26	CHATRA	Z	iPg	13	24	33		Slight
		E	ePg					
			i		34	04		
26	Epc: 2°S, 116°E. Borneo. H = 14h 16m 57s. (U.S.C.G.S)							
	TOCKLAI	E	eP	14	23	56		Slight
	SHILLONG	Z,N,E	iP	14	24	00	4290	Moderate
		E	pP		24	44		Compression
			sP		25	06		Probable depth
			PP		25	21		about 200 Kms.
		N,E	iS		29	57		
		E	sS		30	15		
	CALCUTTA	N,E	iP	14	24	03	4040	
			iS		29	45		
	VIZIANAGRAM	N	eP	14	24	20	4180	Moderate
			iS		30	10		Distant.
	MADRAS	E	iP	14	24	22	4630	Moderate
			PP		25	57		First movement
			PcP		26	20		'West'
			iS		30	18		
			SS		33	04		
			Lq		33	20		
			SSS		33	39		
			ScS		34	01		
			Lr		35	12		
			M		38	20		
	BOKARO	N,E	iP	14	24	27	4300	Moderate
		N	PP		26	04		
			PPP		26	22		
			iS		30	25		
26 Contd.	KODAIKANAL	E	iP	14	24	43	4450	
			PP		26	19		
			iS		30	49		
			SSS		34	25		
			Lr		36	07		
			M		39	25		Per. = 20 secs μ = 12
	HYDERABAD	E	iP	14	24	50	4520	First movement
			PP		26	39		'East'
			iS		31	01		
			SS		34	24		
		N	Lr		36	22		
		E	Lr		36	31		
			M		39	48		Per. = 15 secs μ = 4
		N	M		39	52		Per. = 15 secs μ = 7
	POONA	Z	iP	14	25	24	5060	Moderate
		Z,E	i		27	02		
		N,E	PP		27	17		
		N	PPP		27	49		
		E	PcS		30	53		
		N,E	iS		32	06		
			PS		32	12		
		N	PPS		32	25		
		N,E	SS		35	13		
		N	Lq		35	46		
			SSS		36	13		
		E	ScS		36	23		
		N,E	M		42	00		
	BOMBAY	N,E	eP	14	25	34	5210	Slight
			PP		27	26		
		N	PPP		28	16		
		N,E	eS		32	25		
		N	PPS		32	42		
			SS		36	05		
	DEHRA DUN	N,E	eP	14	25	40	5370	Slight
		N	PPP		28	37		
			iS		32	40		
			SS		35	38		
			Lq		36	44		
			Lr		39	43		
			M		43	18		
26	DEHRA DUN	N,E	e	18	06	46		Tremor
27	SHILLONG	Z	iP	05	53	12		Slight, distant Compression
27	SHILLONG	Z	iP	06	05	37		Slight, distant Rarefaction
27	SHILLONG	Z	i	11	59	35		
27	PORT BLAIR	E	e	14	37	48		Slight
	SHILLONG	Z	eP	14	40	03		
	CHATRA	Z	e	14	40	42		Slight
27	CHATRA	Z	iP	22	03	07		Feebie
			i		03	47		
27	Epc: 56°N, 161°E. Kamchatka. H = 22h 32m 25s. (U.S.C.G.S) Magnitude = 6½-6¾ (Pasadena).							
	TOCKLAI	E	eP	22	42	07		
	SHILLONG	Z,N,E	iP	22	42	15	6150	Compression
		N,E	iS		49	59		
	CHATRA	Z,E	iP	22	42	29		
		E	i		51	28		
	DEHRA DUN	N,E	eP	22	42	47		
			i		52	00		
	CALCUTTA	E	eP	22	42	52		
			i		47	25		
			i		52	03		
	PORT BLAIR	E	iP	22	43	32		
			i		52	17		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1957						
27 Contd.	BOMBAY	N,E	eP	22 43 58	7930	
		N	PP	46 42		
			PPP	48 29		
		N,E	eS	53 16		
			PPS(ScS)	54 23		
	MADRAS	E	iP	22 44 03	7980	First movement 'West'
			PcP	44 12		
			PP	46 49		
			PPP	48 34		
			iS	53 23		
			SKS	53 48		
			PPS	54 07		
27	SHILLONG	Z	i	23 09 17		
27	SHILLONG	Z	iP	23 57 50		Slight, distant Compression
28	SHILLONG	Z	iPg	00 50 09	90	Feeble
			iSg	50 20		
28	PORT BLAIR	E	eP	02 26 22		Slight
			e	30 52		
28	SHILLONG	Z	iP	03 04 32		Feeble, near Compression.
28	SHILLONG	Z,E	iPg	04 00 19	210	Feeble
			iSg	00 53		
	CHATRA	Z	iP	04 01 18		Feeble
			i	02 45		
28	SHILLONG	Z	eP	10 06 25		
28	SHILLONG	Z	iP	16 28 34		Slight, distant Compression
28	SHILLONG	Z	iPg	17 35 51		Feeble, local
29	SHILLONG	Z	iP	00 18 51		Slight, distant Compression
29	SHILLONG	Z	iPg	00 53 35	40	Feeble
			iSg	53 39		
29	Epc: 2°S, 116°E. Borneo aftershock. H= 02h 21m 30s (U.S.C.G.S).					
	SHILLONG	Z,N,E	iP	02 28 37	4000	Slight
		N,E	iS	34 16		Compression
	CALCUTTA	E	eP	02 28 48	3960?	Slight
			e	30 05		
			e(S)	34 25		
	MADRAS	E	iP	02 28 58	4300	
			i	30 32		
			iS	34 56		
			e	44 47		
	CHATRA	Z	iP$_\delta$	02 29 10		Slight
		E	eP$_\delta$			
	POONA	Z	iP	02 29 59	5060	Feeble
		E	eS	36 41		
	BOMBAY	E	eP	02 30 10	5220	Very slight
		N	e	30 15		
		E	e	32 08		
		N,E	eS	37 02		
	DEHRA DUN	N,E	eP	02 30 19		Feeble,
			i	41 21		
29	SHILLONG	Z	iPg	03 33 32		Feeble,
			e	33 54		local.
29	SHILLONG	Z	eP	04 03 55		Tremor
29	SHILLONG	Z	iP	05 55 06		Slight, distant Compression
	CHATRA	Z	i	05 55 44		Feeble, distant
29	CHATRA	Z	iP	06 45 29	750	Slight
		E	iS	46 47		
29	SHILLONG	Z	iP	08 13 22		Slight, distant Rarefaction
29	CHATRA	Z	iPg	10 11 32	90	Feeble
			iSg	11 44		
29	SHILLONG	Z	eP	15 06 34		Feeble, near
29	SHILLONG	Z	ePg	16 06 57	110	Feeble
			iSg	07 10		
29	SHILLONG	Z	e	17 17 27		
30	PORT BLAIR	N	eP	00 00 09	130	Slight
			iSg	00 27		
30	SHILLONG	Z	iP	00 02 57		Slight, distant Rarefaction
30	CHATRA	Z	e	00 03 27		Feeble, distant
30	CHATRA	Z	iP	01 52 07		Slight, distant
	SHILLONG	Z	iP	01 52 38		Slight, distant Rarefaction
	KODAIKANAL	E	e	02 15 14		Tremor
30	SHILLONG	Z	eP	02 24 59		
30	POONA	Z	iP	02 26 19		
30	SHILLONG	Z	iP	03 01 43		Slight, distant Rarefaction
30	SHILLONG	Z	iP	04 03 47		Slight, distant Rarefaction
30	SHILLONG	Z	e	06 17 47		
30	SHILLONG	Z	i	07 15 29		
30	Epc: 36°N, 27½°E. Dodecanese Islands. Felt: Isle of Karpathos. H= 07h 30m 20s (U.S.C.G.S)					
	DEHRA DUN	N,E	e	07 38 56		Feeble
			iS	44 41		
	CHATRA	Z	iP$_\delta$	07 39 23	5630	Slight
		E	eP$_\delta$			
			iS	46 36		
	SHILLONG	Z	eP	07 39 53		
	KODAIKANAL	E	e	08 01 16		Tremor
30	SHILLONG	Z	e	08 52 45		
30	CHATRA	Z	iPg	14 45 21	100	Feeble
			iSg	45 35		
30	SHILLONG	Z	eP	18 46 44		Slight, near
			i	47 32		
			i	47 51		
30	SHILLONG	Z	iP	19 57 44		Slight, distant Compression
30	SHILLONG	Z	eP	21 21 57		
30	SHILLONG	Z	iP	23 44 04		Slight, distant Compression
31	Epc: 39°N, 140°E. Honshu, Japan. Felt: Tokyo. H= 02h 36m 56s (U.S.C.G.S)					
	SHILLONG	Z	iP	02 44 51		Slight Rarefaction
	CHATRA	Z	iP	02 45 16	5030	Slight
		E	eS	51 57		
31	SHILLONG	Z	iP	04 35 49		Slight, distant Rarefaction
31	Epc: 6½°N, 83°W. Off the Coast of Panama. Felt: Balboa Heights and on board S.S. Hai Hsung. H= 10h 07m 54s (U.S.C.G.S) Magnitude= 6½-6¾ (Pasadena), 6¾ (Berkeley).					
	TOCKLAI	E	ePKP	10 27 34		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
October 1957								
31 Contd.	CHATRA	Z	iPKP	10	27	35		
		E	ePKP					
	BOMBAY	N	ePKP	10	27	37		
			e		45	11		
	POONA	Z	iPKP	10	27	39		
			i		27	50		
	SHILLONG	Z,N	iPKP	10	27	42		
	BOKARO	N,E	ePKP	10	27	47		
	MADRAS	E	e	10	28	15		
			e	11	23	51		
	CALCUTTA	E	e	10	28	33		
			i		56	07		
	DEHRA DUN	N,E	e	10	31	25		
	HYDERABAD	N	M	11	30	40		Per 21 secs
31	BOMBAY	E	M	14	30	--		
31	SHILLONG	Z	iP	15	15	07		Slight, distant Compression.
31	SHILLONG	Z	e	15	41	45		Tremor
31	CHATRA	Z	e	16	44	09		Feeble, distant
	SHILLONG	Z	e	16	44	11		Tremor
31	SHILLONG	Z	e	17	29	58		Slight, distant Compression
31	SHILLONG	Z	e	20	06	44		Tremor
31	SHILLONG	Z	e	21	21	53		
31	SHILLONG	Z	i	23	05	49		Feeble, local Rarefaction
31	SHILLONG	Z	iPg	23	06	08		Feeble, local
31	SHILLONG	Z	iP	23	51	20		Slight, distant Rarefaction

Earthquake Reports
(Non Instrumental Reports)

The following table contains a list of earthquakes that were reported by Voluntary Observers from various stations during the month of October 1957.

PLACE AT WHICH FELT	DATE IN G.M.T.	TIME IN G.M.T h. m.	DURATION IN SECS.	INTENSITY IN R.F. SCALE	NO. OF SHOCKS	REMARKS
SALEM	04	07 15	6	IV	1	
NAGPUR	17	05 12	-	IV	1	
UPPER SHILLONG	25	00 58	5	IV	1	

International Seismological Centre From the ISC collection scanned by SISMOS

MICROSEISMIC TABULATION

STATION: SHILLONG Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN SEC
01	00	3	0.6	4.8
	06	3	0.4	4.7
	12	3	0.6	4.8
	18	3	0.7	5.2
02	00	3	0.6	4.5
	06	0,0	-	-
	12	0,0	-	-
	18	3	0.7	4.7
03	00	3	0.6	4.9
	06	3	0.6	4.3
	12	3	0.4	4.1
	18	3	0.4	4.5
04	00	0,0	-	-
	06	-	-	-
	12	3	0.6	4.2
	18	3	0.6	4.1
05	00	3	0.7	4.7
	06	3	0.4	4.6
	12	3	0.5	4.9
	18	3	0.5	4.7
06	00	3	0.7	4.3
	06	3	0.5	4.9
	12	3	0.5	4.6
	18	3	0.6	5.1
07	00	3	0.5	5.1
	06	0,0	-	-
	12	0,0	-	-
	18	-	-	-
08	00	3	0.7	5.2
	06	-	-	-
	12	2	0.7	4.5
	18	2	0.6	4.6
09	00	2	0.5	4.9
	06	2	0.7	4.8
	12	2	0.8	5.1
	18	2	0.8	5.0
10	00	2	0.4	5.0
	06	2	0.6	5.1
	12	-	-	-
	18	3	0.7	5.0
11	00	3	0.5	4.8
	06	2	0.7	4.7
	12	2	0.8	4.4
	18	2	0.6	4.7
12	00	2	0.8	4.8
	06	2	0.5	4.5
	12	2	0.4	4.2
	18	2	0.5	4.5
13	00	3	0.5	4.8
	06	0.0	-	-
	12	3	0.3	4.0
	18	3	0.4	4.4
14	00	3	0.5	5.0
	06	-	-	-
	12	0,0	-	-
	18	3	0.2	4.3
15	00	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
16	00	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
17	00	0,0	-	-
	06	0,0	-	-
	12	3	0.2	4.5
	18	3	0.1	4.5
18	00	3	0.3	4.6
	06	3	0.3	5.3
	12	3	0.3	5.2
	18	-	-	-
19	00	3	0.2	5.2
	06	3	0.3	4.9
	12	3	0.3	4.9
	18	3	0.3	4.8
20	00	3	0.4	4.5
	06	3	0.4	4.8
	12	-	-	-
	18	3	0.2	4.7
21	00	3	0.2	4.7
	06	3	0.2	4.8
	12	3	0.2	4.7
	18	3	0.3	4.5
22	00	3	0.2	4.3
	03	3	0.2	4.3
	02	3	0.3	4.8
	03	3	0.3	4.7
	04	3	0.2	4.7
	05	3	0.2	4.0
	06	3	0.2	4.4
	07	3	0.2	4.1
	08	0,0	-	-
	09	0,0	-	-
	10	3	0.2	4.3
	11	0,0	-	-
	12	3	0.2	4.2
	13	3	0.2	4.0
	14	3	0.2	4.5
	15	3	0.2	4.4
	16	3	0.2	4.8
	17	3	0.2	4.5
	18	3	0.2	4.0
	19	3	0.2	4.2
	20	3	0.3	4.9
	21	-	-	-
	22	0,0	-	-
	23	3	0.2	3.9
23	00	3	0.2	4.6
	01	0,0	-	-
	02	3	0.2	4.5
	03	0,0	-	-
	04	3	0.2	4.2
	05	3	0.2	4.4
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	3	0.2	4.5
	10	3	0.2	4.3
	11	2	0.3	4.5
	12	2	0.3	4.2
	13	2	0.3	4.6
	14	2	0.2	4.4
	15	2	0.2	4.3
	16	2	0.3	4.3
	17	2	0.3	4.6
	18	2	0.2	4.7
	19	2	0.3	4.6
	20	2	0.2	4.5
	21	2	0.2	4.6
	22	2	0.3	4.6
	23	2	0.2	4.7
24	00	2	0.2	4.5
	01	-	-	-
	02	-	-	-
	03	0,0	-	-
	04	3	0.2	4.7
	05	3	0.3	4.4
	06	3	0.3	4.8
	07	3	0.3	4.7
	08	3	0.2	4.5
	09	3	0.3	4.5
	10	-	-	-
	11	0,0	-	-
	12	3	0.2	4.3
	13	3	0.3	4.5
24 Contd.	14	0,0	-	-
	15	0,0	-	-
	16	0,0	-	-
	17	3	0.3	4.5
	18	3	0.2	4.8
	19	3	0.4	4.5
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
25	00	-	-	-
	06	-	-	-
	12	0,0	-	-
	18	0..	-	-
26	00	0,0	-	-
	06	-	-	-
	12	3	0.2	4.9
	18	3	0.3	5.0
27	00	3	0.4	5.0
	06	3	0.3	5.3
	12	3	0.2	4.3
	18	3	0.2	4.5
28	00	-	-	-
	06	3	0.2	4.6
	12	0..	-	-
	18	0..	-	-
29	00	3	0.3	5.3
	06	-	-	-
	12	3	0.3	4.8
	18	3	0.3	4.5
30	00	3	0.3	4.7
	06	3	0.2	4.7
	12	0,0	-	-
	18	3	0.2	4.6
31	00	3	0.3	4.5
	06	-	-	-
	12	-	-	-
	18	-	-	-

STATION: BOMBAY Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN SEC
01	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
02	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	2	0.3	3.1
03	00	2	0.3	4.4
	06	2	0.3	4.5
	12	-	-	-
	18	2	0.3	4.2
04	00	-	-	-
	03	1	0.6	2.3
	06	1	-	-
	09	1	0.4	3.0
	12	1	0.4	3.1
	15	1	0.6	3.0
	18	1	0.5	2.9
	21	1	-	-
05	00	-	-	-
	03	-	-	-
	06	1	0.9	2.9
	09	1	0.9	2.9
	12	1	0.5	3.0
	15	1	0.5	2.9
	18	1	0.6	3.0
	21	1	0.5	2.9
06	00	1	0.3	3.3
	03	1	0.5	2.8
	06	1	0.6	2.7
	09	1	0.6	2.8
	12	-	-	-
	15	-	-	-
	18	-	-	-
	21	-	-	-
07	00	3	0.3	2.6
		3	0.5	5.2
	06	3	0.5	2.7
		3	0.5	5.1
	12	-	-	-
	18	3	0.4	2.8
		3	0.5	5.4
08	00	3	0.3	2.8
		3	0.5	5.7
	06	-	-	-
	12	2	0.3	2.6
	18	2	0.3	3.4
09	00	2	0.3	4.2
	06	2	0.4	4.5
	12	2	0.5	4.5
	18	2	0.4	4.8
10	00	2	0.5	5.1
	06	2	0.4	4.8
	12	2	0.5	4.3
	18	2	0.5	5.0
11	00	2	0.5	4.9
	06	2	0.5	3.1
	12	-	-	-
	18	2	0.4	4.2
12	00	2	0.5	3.9
	06	2	0.5	4.0
	12	2	0.4	3.5
	18	2	0.4	3.8
13	00	1	0.6	3.0
	03	1	0.5	2.8
	06	1	0.7	2.8
	09	1	0.5	2.9
	12	1	0.5	3.0
	15	1	0.5	3.1
	18	1	0.5	3.7
	21	-	-	-
14	00	-	-	-
	03	1	0.5	2.8
	06	1	0.7	2.7
	09	1	0.7	2.8
	12	1	0.7	2.9
	15	1	0.7	2.9
	18	1	0.5	2.8
	21	1	0.5	2.9
15	00	1	0.5	3.2
	03	1	0.7	2.9
	06	1	0.7	2.9
	09	1	0.7	2.9
	12	1	0.5	2.8
	15	1	0.5	2.9
	18	-	-	-
	21	-	-	-
16	00	2	0.3	4.0
	06	-	-	-
	12	2	0.3	4.8
	18	2	0.2	4.4
17	00	2	0.2	4.3
	06	2	0.2	4.4
	12	2	0.2	4.1
	18	2	0.2	4.3
18	00	2	0.3	4.4
	06	-	-	-
	12	2	0.3	4.7
	18	2	0.3	4.7

International Seismological Centre From the ISC collection scanned by SISMOS

STATION: BOMBAY (Contd.) Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE in mm.	MEAN PERIOD IN SEC
19	00	2	0.4	4.5
	06	2	0.4	4.4
	12	2	0.3	4.6
	18	2	0.4	4.4
20	00	-	-	-
	03	-	-	-
	06	-	-	-
	09	-	-	-
	12	-	-	-
	15	-	-	-
	18	1	0.4	3.5
	21	1	0.8	2.2
21	00	1	0.7	2.4
	03	1	0.5	2.5
	06	1	0.3	4.3
	09	-	-	-
	12	-	-	-
	15	-	-	-
	18	-	-	-
	21	-	-	-
22	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	2	0.4	3.4
	05	2	0.3	3.1
	06	2	0.4	3.7
	07	2	0.3	3.9
	08	2	0.4	3.8
	09	2	0.3	3.6
	10	2	0.3	3.7
	11	2	0.3	4.0
	12	2	0.4	3.9
	13	-	-	-
	14	2	0.3	4.3
	15	2	0.4	4.0
	16	2	0.4	3.5
	17	2	0.4	3.5
	18	2	0.3	3.4
	19	2	0.4	3.3
	20	2	0.3	3.2
	21	2	0.3	3.3
	22	2	0.3	3.6
	23	2	0.3	3.1
23	00	2	0.3	3.4
	01	2	0.3	3.6
	02	-	-	-
	03	-	-	-
	04	2	0.3	3.2
	05	2	0.3	3.1
	06	2	0.5	3.4
	07	-	-	-
	08	2	0.3	3.3
	09	2	0.3	3.2
	10	2	0.3	3.4
	11	2	0.3	3.7
	12	2	0.3	3.7
	13	2	0.3	3.1
	14	2	0.4	3.2
	15	2	0.4	3.1
	16	2	0.5	3.2
	17	2	0.5	3.1
	18	2	0.5	3.3
	19	2	0.5	3.3
	20	2	0.4	3.1
	21	2	0.5	3.1
	22	2	0.5	3.3
	23	2	0.5	3.1
24	00	2	0.5	3.0
	01	2	0.5	3.2
	02	2	0.5	3.2
	03	2	0.5	3.4
	04	-	-	-
	05	2	0.7	3.2
	06	2	0.6	3.1
	07	2	0.5	3.3
	08	2	0.6	3.2
	09	2	0.6	3.2
	10	2	0.6	3.3
	11	2	0.5	3.4
	12	2	0.5	3.6
	13	2	0.6	3.4
24	14	1	0.6	3.0
Contd.	15	1	0.7	3.1
	16	1	0.7	3.1
	17	1	0.7	3.3
	18	1	0.8	3.1
	19	1	0.7	3.3
	20	1	0.8	3.3
	21	1	0.9	3.2
	22	1	0.7	3.1
	23	1	0.9	3.5
25	00	1	0.8	3.4
	03	1	0.9	3.3
	06	1	0.9	3.1
	09	1	0.9	3.1
	12	1	0.9	3.2
	15	1	0.9	3.0
	18	1	0.9	2.9
	21	1	0.9	3.1
26	00	1	0.7	3.0
	03	1	0.5	2.9
	06	1	0.6	2.7
	09	1	0.6	3.0
	12	-	-	-
	15	-	-	-
	18	-	-	-
	21	-	-	-
27	00	2	0.4	4.4
	06	2	0.4	4.0
	12	2	0.3	4.0
	18	2	0.3	4.5
28	00	2	0.3	4.8
	06	2	0.3	4.9
	12	2	0.3	4.5
	18	2	0.3	4.5
29	00	2	0.3	5.0
	06	2	0.4	5.0
	12	2	0.3	4.2
	18	2	0.4	4.7
30	00	2	0.3	4.8
	06	2	0.3	4.3
	12	2	0.2	4.3
	18	2	0.3	4.6
31	00	2	0.2	4.2
	06	2	0.4	4.5
	12	-	-	-
	18	-	-	-

STATION: MADRAS

DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE in mm.	MEAN PERIOD IN SEC
01	00	0.0	-	-
	03	0.0	-	-
	06	0.0	-	-
	12	0.0	-	-
	18	0.0	-	-
02	00	0.0	-	-
	03	3	0.2	2.6
	06	-	-	-
	12	-	-	-
	18	3	0.3	2.7
03	00	3	0.3	2.5
	03	3	0.3	2.5
	06	3	0.3	2.7
	12	3	0.3	2.6
	18	3	0.4	2.7
04	00	3	0.2	2.7
	03	3	0.3	2.7
	06	3	0.3	2.7
	12	3	0.3	2.7
	18	3	0.3	2.5
05	00	3	0.3	2.8
	03	3	0.3	2.7
	06	3	0.3	2.7
	12	3	0.3	2.8
	18	3	0.3	2.8
06	00	3	0.3	2.6
	03	3	0.3	2.6
	06	3	0.3	2.7
	12	3	0.4	2.8
	18	3	0.3	2.8
07	00	3	0.3	2.8
	03	3	0.3	2.7
	06	3	0.3	2.7
	12	3	0.3	2.7
	18	3	0.3	2.5
08	00	3	0.3	2.5
	03	3	0.3	2.7
	06	3	0.3	2.7
	12	3	0.2	2.6
	18	3	0.3	2.5
09	00	3	0.2	2.6
	03	3	0.3	2.9
	06	0.0	-	-
	12	3	0.3	2.3
	18	0.0	-	-
10	00	3	0.3	2.6
	03	3	0.3	2.9
	06	3	0.3	2.9
	12	3	0.3	2.7
	18	3	0.3	2.7
11	00	3	0.3	2.7
	03	-	-	-
	06	3	0.3	2.9
	12	3	0.3	2.9
	18	3	0.3	3.1
12	00	3	0.2	3.1
	03	...	-	-
	06	3	0.3	3.0
	12	3	0.4	2.9
	18	1	0.4	2.6
13	00	1	0.4	2.7
	03	1	0.5	2.7
	06	1	0.4	2.7
	12	1	0.6	2.8
	18	1	0.7	2.8
14	00	1	0.7	2.7
	03	1	0.7	2.8
	06	3	0.8	2.7
	12	3	0.8	2.9
	18	3	0.6	2.8
15	00	3	0.6	2.9
	03	...	-	-
	06	3	0.7	3.1
	12	3	0.7	2.8
	18	3	0.5	2.9
16	00	3	0.5	2.8
	03	3	0.5	2.8
	06	3	0.4	2.7
	12	3	0.4	2.8
	18	3	0.4	2.9
17	00	3	0.3	2.5
	03	3	0.3	2.3
	06	3	0.3	2.7
	12	3	0.3	2.5
	18	3	0.3	2.3
18	00	3	0.3	2.3
	03	3	0.3	2.3
	06	3	0.2	2.1
	12	3	0.3	2.3
	18	3	0.2	2.4
19	00	0.0	-	-
	03	...	-	-
	06	3	0.2	2.0
	12	3	0.3	2.1
	18	3	0.3	2.1
20	00	3	0.3	2.3
	03	3	0.3	2.3
	06	1	0.3	2.4
20	12	1	0.4	2.7
Contd.	18	1	0.5	2.6
21	00	1	0.5	2.6
	03	1	0.6	2.6
	06	1	0.5	2.2
	12	3	0.4	2.7
	18	3	0.4	2.8
22	00	3	0.5	2.9
	01	3	0.4	2.9
	02	3	0.4	3.0
	03	3	0.4	3.0
	04	3	0.4	3.0
	05	3	0.5	3.1
	06	3	0.5	3.1
	07	3	0.5	3.1
	08	3	0.5	3.5
	09	3	0.5	3.1
	10	3	0.5	3.1
	11	3	0.4	3.1
	12	3	0.4	3.2
	13	3	0.5	3.2
	14	3	0.5	3.1
	15	3	0.4	3.2
	16	3	0.4	3.0
	17	3	0.4	3.0
	18	3	0.4	3.1
	19	3	0.4	3.0
	20	3	0.4	3.1
	21	3	0.4	2.9
	22	3	0.5	3.1
	23	3	0.4	3.2
23	00	3	0.5	3.1
	01	3	0.4	3.0
	02	3	0.3	3.1
	03	3	0.5	3.1
	04	3	0.4	3.0
	05	3	0.5	3.1
	06	3	0.4	3.1
	07	3	0.3	2.9
	08	3	0.3	3.0
	09	3	0.3	2.9
	10	3	0.3	3.1
	11	3	0.4	3.1
	12	3	0.5	3.2
	13	3	0.4	3.1
	14	3	0.5	3.4
	15	3	0.5	3.3
	16	3	0.4	3.0
	17	3	0.4	3.3
	18	3	0.5	3.1
	19	3	0.4	3.0
	20	3	0.4	3.0
	21	3	0.4	3.2
	22	3	0.4	3.3
	23	3	0.3	3.5
24	00	3	0.4	3.6
	01	...	-	-
	02	3	0.4	3.3
	03	3	0.5	3.2
	04	3	0.5	3.5
	05	3	0.4	3.4
	06	3	0.4	3.2
	07	3	0.3	3.0
	08	3	0.3	3.1
	09	3	0.3	2.8
	10	3	0.3	2.9
	11	3	0.3	2.9
	12	3	0.3	3.0
	13	3	0.3	3.0
	14	3	0.3	3.0
	15	3	0.3	2.8
	16	3	0.3	2.8
	17	3	0.4	2.6
	18	3	0.4	2.7
	19	3	0.3	2.6
	20	3	0.4	2.7
	21	3	0.4	2.7
	22	3	0.4	2.6
	23	3	0.4	2.7
25	00	3	0.4	2.7
	03	3	0.4	2.7
	06	3	0.4	2.8
	12	3	0.3	2.7

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN SEC
STATION: MADRAS (Contd.)				
26	00	3	0.4	2.7
	03	3	0.5	2.7
	06	3	0.4	2.5
	12	3	0.3	2.3
	18	3	0.3	2.2
27	00	3	0.3	2.2
	03	3	0.2	2.1
	06	3	0.3	2.4
	12	3	0.3	2.4
	18	3	0.3	2.4
28	00	3	0.3	2.4
	03	3	0.3	2.3
	06	3	0.3	2.2
	12	3	0.3	2.2
	18	3	0.3	2.2
29	00	3	0.3	2.3
	03	...	...	-
	06	3	0.3	2.5
	12	3	0.3	2.5
	18	3	0.3	2.4
30	00	3	0.3	2.4
		3	0.4	4.3
	03	3	0.3	2.9
		3	0.4	4.3
	06	3	0.3	2.3
		3	0.5	4.2
	12	3	0.4	3.3
	18	3	0.4	2.6
31	00	3	0.4	2.7
	03	3	0.4	2.9
	06	3	0.3	2.7
	12	3	0.3	2.7
	18	3	0.3	2.8

STATION: COCHIN
Component: E.W.

01	00	-	-	-
	06	1	0.6	-
	12	-	-	-
	18	-	-	-
08	00	-	-	-
	06	3.0	0.0	-
	12	-	-	-
	18	-	-	-
09	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
10	00	-	-	-
	06	1	2.4	1.4
	12	1	1.0	1.6
	18	1	1.0	1.4
11	00	1	0.0	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
12	00	-	-	-
	06	1	1.6	1.4
	12	-	-	-
	18	-	-	-
13	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
14	00	-	-	-
	06	1	1.8	1.4
	12	-	-	-
	18	-	-	-
15	00	-	-	-
	06	1	1.8	1.4
	12	-	-	-
	18	-	-	-
16	00	-	-	-
	06	1	0.8	1.4
	12	-	-	-
	18	-	-	-
17	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
18	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
19	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
20	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
21	00	-	-	-
	06	1	0.0	-
	12	1	1.3	1.4
	18	1	2.4	1.5
22	00	1	1.9	1.5
	01	1	2.1	1.5
	02	1	2.0	1.4
	03	1	2.3	1.6
	04	1	2.7	1.5
	05	1	2.6	1.6
	06	1	1.8	1.5
	07	1	2.0	1.6
	08	1	1.8	1.7
	09	3	1.0	1.4
	10	1	1.7	1.4
	11	1	1.0	1.5
	12	1	0.8	1.4
	13	1	1.2	1.4
	14	1	1.9	1.5
	15	1	1.6	1.4
	16	1	2.3	1.4
	17	1	2.3	1.4
	18	1	1.9	1.4
	19	1	1.5	1.4
	20	1	1.7	1.5
	21	1	1.7	1.5
	22	1	1.3	1.4
	23	1	0.0	-
23	00	1	0.0	-
	01	1	0.0	-
	02	1	0.8	1.4
	03	1	1.0	1.4
	04	1	1.7	1.4
	05	1	1.0	1.4
	06	1	0.9	1.4
	07	1	1.8	1.4
	08	1	1.3	1.4
	09	1	0.0	-
	10	1	0.0	-
	11	3	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.8	1.4
	18	1	0.8	1.4
	19	1	1.0	1.4
	20	1	1.0	1.4
	21	1	0.0	-
	22	3	0.0	-
	23	3	0.0	-
24	00	3	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	3	0.0	-
	04	3	0.0	-
	05	3	0.0	-
	06	3	0.0	-

Component: E.W.

24 Contd.	07	3	0.0	-
	08	3	0.0	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
25	00	2	...	-
	06	-	...	-
	12	-	-	-
	18	-	-	-
26	00	-	-	-
	06	1	0.0	-
	12	3	1.0 to 10.8	1.4 to 4.3
	18	-	0	-
27	00	-	0	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
28	00	-	0	-
	06	3	1.0 to 8.9	1.4 to 3.6
	12	-	-	-
	18	-	-	-
29	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
31	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-

Component: N.S.

01	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
08	00	-	-	-
	06	1	0.0	-
	12	-	-	-
09	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
10	00	-	-	-
	06	1	3.2	1.5
	12	1	1.3	1.4
	18	1	0.9	1.4
11	00	1	0.0	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
12	00	-	-	-
	06	1	0.8	1.4
	12	-	-	-
	18	-	-	-
13	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
14	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
15	00	-	-	-
	06	1	1.1	1.4
	12	-	-	-
	18	-	-	-
16	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
17	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
18	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
19	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
20	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
21	00	-	-	-
	06	1	0.0	-
	12	1	0.8	1.4
	18	1	1.8	1.5
22	00	1	1.3	1.5
	01	1	1.3	1.4
	02	1	1.8	1.6
	03	1	2.0	1.6
	04	1	2.0	1.5
	05	1	2.3	1.4
	06	1	1.7	1.5
	07	1	1.2	1.4
	08	1	1.8	1.4
	09	3	1.9	1.4
	10	1	1.4	1.4
	11	1	0.8	1.4
	12	1	0.8	1.4
	13	1	1.2	1.4
	14	1	1.7	1.4
	15	1	1.5	1.5
	16	1	1.8	1.4
	17	1	2.3	1.4
	18	1	1.7	1.4
	19	1	1.4	1.4
	20	1	0.9	1.4
	21	1	1.3	1.6
	22	1	0.8	1.4
	23	1	0.8	1.4
23	00	1	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	1	1.1	1.4
	04	1	1.0	1.5
	05	1	1.0	1.4
	06	1	0.9	1.4
	07	1	1.9	1.4
	08	1	1.6	1.4
	09	1	0.0	-
	10	1	0.0	-
	11	3	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-

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DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN SEC

STATION: COCHIN (Contd) Component: N.S.

23	17	1	0.8	1.4
Contd.	18	1	0.8	1.4
	19	1	1.2	1.4
	20	1	0.8	1.4
	21	1	0.0	-
	22	3	0.0	-
	23	3	0.0	-
24	00	3	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	1	0.0	-
	04	-	...	-
	05	-	...	-
	06	-	...	-
	07	-	...	-
	08	-	...	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
25	00	-	-	-
	06	1	0.8	1.4
	12	-	-	-
	18	-	-	-
26	00	-	-	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
27	00	1	0.0	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
28	00	-	...	-
	06	-	...	-
	12	-	...	-
	18	-	-	-
29	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
31	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-

Component: VERTICAL

01	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
02	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
03	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
04	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
05	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
06	00	-	-	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
07	00	-	0	-
	01	-	0	-
	02	-	0	-
	03	1	0.0	-
	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	1	0.0	-
	21	1	0.0	-
	22	1	0.0	-
	23	1	0.0	-
28	00	1	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	1	0.0	-
	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	3	0.0	-
	08	3	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	3	0.0	-
	12	1	0.0	-
	13	-	0	-
	14	1	0.0	-
	15	-	0	-
	16	-	0	-
	17	3	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	1	0.0	-
	21	1	0.0	-
23	22	3	0.0	-
Contd.	23	3	0.0	-
24	00	3	0.0	-
	01	1	0.0	-
	02	1	0.0	-
	03	1	0.0	-
	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
25	00	-	-	-
	06	-	...	-
	12	-	-	-
	18	-	-	-
26	00	-	-	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
27	00	-	0	-
	06	-	0	-
	12	-	0	-
	18	-	0	-
28	00	-	0	-
	06	1	0.0	-
	12	1	0.0	-
	18	-	-	-
29	00	-	-	-
	06	-	0	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-
31	00	-	-	-
	06	1	0.0	-
	12	-	-	-
	18	-	-	-

DATE	HOUR G.M.T	K	GROUND MOTION MICRON	MEAN PERIOD IN SEC

STATION: PORT BLAIR Component: E.W.

01	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
02	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
03	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
04	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
05	00	-	-	-
	06	1	0.8	7.0
	12	1	1.2	7.5
	18	1	1.2	7.2
06	00	1	1.2	7.2
	06	1	0.8	7.2
	12	1	0.8	7.2
	18	1	0.8	7.0
07	00	1	0.8	7.0
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
08	00	0,0	-	-
	06	3	0.8	7.0
	12	3	0.8	7.0
	18	3	0.8	7.0
09	00	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
10	00	1	0.8	7.0
	06	1	0.8	7.0
	12	1	0.8	7.0
	18	1	0.8	7.0
11	00	1	1.3	7.5
	06	1	1.7	7.5
	12	1	1.3	7.5
	18	1	1.3	7.5
12	00	1	1.3	7.5
	06	1	1.3	7.5
	12	1	1.3	7.5
	18	1	0.8	7.5
13	00	0,0	-	-
	06	1	0.8	7.2
	12	1	0.8	7.2
	18	1	0.8	7.2
14	00	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
15	00	0,0	-	-
	06	...	-	-
	12	...	-	-
	18	...	-	-

16th to 31st no measure either due absence of record or no regular microseismic movement.

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STATION: HOWRAH

Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN SEC
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
03	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	1.7	3.0
04	00	-	2.4	3.3
	06	-	3.6	3.2
	12	0..	-	-
	18	-	2.9	2.9
05	00	-	2.5	2.7
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-

From 6.10.57 to 31.10.57 no regular microseisms recorded. Only short period oscillations during 00h to about 13 h G.M.T.

Component: N.S.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN SEC
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
03	00	0..	-	-
	06	0..	-	-
	12	-	1.1	2.0
	18	-	2.1	3.1
04	00	-	2.1	3.0
	06	-	2.1	2.9
	12	-	2.3	3.0
	18	-	2.1	2.9
05	00	-	1.9	2.8
	06	-	2.6	2.9
	12	-	1.9	2.8
	18	-	1.3	3.0
06	00	-	1.4	2.8
	06	0..	-	-
	12	-	1.5	3.4
	18	-	0.9	3.8
07	00	0..	-	-
	06	0..	-	-
	12	-	1.0	3.3
	18	-	1.1	3.4
08	00	-	1.4	3.5
	06	0..	-	-
	12	0..	-	-
	18	-	1.0	3.8
09	00	0..	-	-
	06	0..	-	-
	12	-	1.7	4.9
	18	-	1.2	4.0
10	00	-	1.5	4.3
	06	0..	-	-
	12	0,0	-	4.4
	18	-	0.8	3.3
11	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	1.2	4.2
12	00	-	1.0	4.5
	06	0..	-	-
	12	0..	-	-
	18	-	1.0	4.7
13	00	-	0.7	3.4
	06	0..	-	-
	12	0..	-	-
	18	-	0.8	2.8
14	00	0,0	-	3.0
	06	0..	-	-
	12	0..	-	-
	18	0,0	-	4.7
15	00	0,0	-	5.2
	06	0..	-	-
	12	0..	-	-
	18	-	1.0	4.2
16	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0,0	-	3.6
17	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.8	4.4
18	00	-	0.7	4.4
	06	0..	-	-
	12	0..	-	-
	18	0,0	-	4.4
19	00	-	0.7	4.4
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
20	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.9	4.5
21	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.6	4.1
22	00	0,0	-	4.3
	06	0..	-	-
	12	0..	-	-
	18	-	0.6	3.4
23	00	-	0.7	4.0
	06	0..	-	-
	12	0..	-	-
	18	-	0.7	4.2
24	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.8	4.0
25	00	-	1.0	3.8
	06	0..	-	-
	12	0..	-	-
	18	-	0.6	4.1
26	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.8	4.5
27	00	-	0.8	4.8
	06	0..	-	-
	12	0..	-	-
	18	-	0.7	4.8
28	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	-	0.4	4.6
29	00	-	0.7	4.4
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
30	00	0,0	-	4.7
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	4.8
31	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-

Component: N.S.

Component: Vertical.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN SEC
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
03	00	0..	-	-
	06	0..	-	-
	12	-	1.2	2.0
	18	-	1.3	2.4
04	00	-	1.2	2.2
	06	-	1.9	2.7
	12	-	2.1	2.6
	18	-	2.0	2.7
05	00	-	1.7	2.7
	06	-	2.4	2.7
	12	-	1.6	2.7
	18	-	1.0	2.6
06	00	-	1.2	2.9
	06	0..	-	-
	12	-	1.0	2.6
	18	-	1.1	2.8
07	00	-	1.5	3.3
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
08	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-

No regular microseisms from 8.10.57 to 31.10.57.

International Seismological Centre From the ISC collection scanned by SISMOS

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

1957

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S. Basu, M.Sc., F.N.I.
Director General of Observatories

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Instruments and their Constants

STATION	INSTRUMENT	COMPT.	PERIOD IN SECS	STATIC MAGNIFICATION	DAMPING RATIO	PAPER SPEED mm/min
BOMBAY	Milne-Shaw	N	12	350	23:1	16
	Milne-Shaw	E	12	350	12:1	8
	Sprengnether	E	To=Tg=7	-	-	30
BOKARO	Milne-Shaw	N	12	250	20:1	16
	Milne-Shaw	E	12	250	20:1	16
	Wood-Anderson	E	0.8	960	h= 0.8	60
	Wood-Anderson	N	0.8	1000	h= 0.8	60
COLOMBO	Milne-Shaw	E	11.9	250	20:1	--
CALCUTTA	Milne-Shaw	E	12	250	20:1	8
	Wood-Anderson	N	2	870	Critical	30
	Omori-Ewing	N	16	32	-	25.4
	Omori-Ewing	E	21	30	-	25.4
CUTTACK	Milne-Shaw	E	12	250	20:1	16
	Milne-Shaw	N	10	150	20:1	16
	Wood-Anderson	E	1	1000	30:1	60
	Wood-Anderson	N	1	1000	40:1	60
	Benioff Short Period	Z	To= .72 Tg= .45	-	Critical	60
	Wenner Accelerograph	ENZ	-	-	-	--
DEHRA DUN	Wood-Anderson	N	0.8	950	Critical	60
	Wood-Anderson	E	0.8	850	Critical	60
	Milne-Shaw	N	12	250	20:1	8
	Milne-Shaw	E	12	250	20:1	8
HYDERABAD	Milne-Shaw	E	12	250	20:1	
	Milne-Shaw	N	12	250	20:1	
KODAIKANAL	Milne Shaw	E	10	250	20:1	
MADRAS	Sprengnether	E	To=Tg 7.4	-	-	
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	
	Wood-Anderson	E	4	1000	20:1	
	Milne-Shaw	N	12	280	20:1	
PORT BLAIR	Wood-Anderson	N	2	1000	20:1	
SHILLONG	Wood-Anderson	N	0.8	1000	h = 0.8	30
	Wood-Anderson	E	0.8	960	h = 0.8	30
	Milne-Shaw	N	12	250	20:1	
	Benioff	Z	To = 1.0 Tg = 0.18	-	-	60
	Sprengnether	E	To=Tg=0.8	-	-	3
	Wenner Accelerograph	ENZ	-	-	-	
TOCKLAI	Wood-Anderson	E	0.8	970	h = 0.8	
VIZIANAGRAM	Wood-Anderson	E	0.8	1000	h = 0.8	30
	Wood-Anderson	N	2	1000	20:1	30

List of Seismograph station

Station	Latitude	Longitude	Height a.s.l (Metres)	Lithographic foundation
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
BOKARO	23°50'N	85°48'E	-	Rock
COLOMBO	06°54'N	79°52'E	7	Beach Sand
CALCUTTA	22°32'N	88°22'E	(1) 7(Milne-Shaw) Alluvium (2) 6(Omori Ewing)	
CUTTACK	20°30'N	85°10'E	161	Sand Stone
DEHRA DUN	30°19'N	78°02'E	682	Gravel
VIZIANAGRAM	18°25'N	83°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
NEW DELHI	28°35'N	77°12'E	207	Massive Quartzite
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°45'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone (Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	-

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s	Δ km	REMARKS
November 1957								
01	SHILLONG	Z	iP	00	06	33		Slight, distant Rarefaction
01	SHILLONG	Z	iP	01	32	57		Slight, distant Rarefaction
01	DEHRA DUN	N, E	e	14	23	50		Feeble
			i		26	16		
	CHATRA	Z	e	14	25	29		Feeble, distant
	SHILLONG	Z	e	14	26	18		Feeble, distant
	POONA	Z	eP	14	30	05		Feeble
02	SHILLONG	Z	e	00	21	17		Tremor
02	SHILLONG	Z, E	iP	01	30	06		Slight, distant Compression
	CHATRA	Z	iP	01	30	15		Feeble, distant
02	SHILLONG	Z	iP	04	53	54		Feeble, near
			i		54	00		Compression.
02	SHILLONG	Z	iP	05	12	55	220	Slight
			i		13	01		Compression
			iS		13	19		
02	SHILLONG	Z	e	07	40	11		Tremor
02	SHILLONG	Z	e	16	12	56		Tremor
02	SHILLONG	Z	iP	16	24	20		Slight, distant Rarefaction
	CHATRA	Z	e	16	24	58		Feeble, distant
02	SHILLONG	Z	i	16	26	27		
02	SHILLONG	E	i	16	30	13		
02	SHILLONG	Z	i	16	30	19		Tremor
02	Epc: 13°S, 166½°E. New Hebrides Islands -H: 18h 30m 24s (U.S.C.G.S).							
	PORT BLAIR	E	eP	18	42	24	8630	Moderate
			PcP		42	34		
			PP		45	24		
			iS		52	17		
	TOCKLAI	E	iP	18	42	44		Slight. First Movement West
	SHILLONG	Z, N, E	iP	18	42	53		Moderate
		Z, E	i		43	06		Compression
		E	i		43	42		Probably deep.
			e		44	07		
			i		53	07		
		N	i		53	25		
	CALCUTTA	E	iP	18	43	05	9450	Slight. First
			iS		53	34		movement West
	CHATRA	Z	iPg	18	43	14		Slight
		E	ePg					
	BOKARO	N, E	i	18	43	16		Slight
	COLOMBO	E	P	18	43	22	9980	
			S		54	08		
			L		19	17	20	
			M1		22	05		Amp. ±0.2 mm
			M2		31	00		
	KODAIKANAL	E	e	18	43	42		
	POONA	Z	iP	18	44	00		Slight
		E	e		44	28		
			e		44	42		
			e		47	21		
			e		48	01		
			e		48	33		
			e		49	41		
			e		54	34		
	DEHRA DUN	N, E	e	18	44	10		Feeble. Phases
			i		47	45		not clear
			i		54	47		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s	Δ km	REMARKS
November 1957								
03	SHILLONG	Z	iPg	02	08	01	110	Slight
			i		08	03		Compression
			iSg		08	11		
			i		08	15		
03	SHILLONG	Z	e	03	00	02		
03	SHILLONG	Z	e	03	00	56		
03	SHILLONG	Z	i	03	01	13		
03	SHILLONG	Z	i	04	36	45		Tremor
03	SHILLONG	Z	iP	05	11	41		Slight, near
		N, E	e		11	49		Compression
			i		12	03		
03	CHATRA	Z	iP	05	12	42		Slight
		E	i		14	39		
03	Epc: 5°S, 147°E. Near Northeast Coast of New Guinea Felt: Lae. -H: 10h 24m 51s (U.S.C.G.S).							
	SHILLONG	Z, E	iP	10	35	18		
	CHATRA	Z	eP	10	35	45		Slight
		E	e		44	49		
	POONA	Z	eP	10	36	34		
			i		36	54		
03	SHILLONG	Z	e	10	42	11		Tremor
03	SHILLONG	N, E	i	10	43	48		
03	POONA	Z	eP	11	16	18		Near Phases
			i		16	35		not clear
03	SHILLONG	Z	e	11	24	57		Tremor
		E	e		24	59		
03	SHILLONG	Z	e	13	12	01		Tremor
03	SHILLONG	Z	e	16	59	02		Feeble, near
			i		59	21		
03	DEHRA DUN	N, E	e	18	38	10		
	CHATRA	Z	e	18	39	12		Slight, distant
	SHILLONG	Z	iP	18	39	59		Slight, distant Compression.
03	DEHRA DUN	N, E	e	19	13	28		Feeble
			i		15	12		
	CHATRA	Z	eP	19	15	06		Slight
		E	i		20	07		
	SHILLONG	Z	e	19	16	01		Tremor
	POONA	Z	eP	19	16	42		Near Phases
			i		17	21		not clear
			I		17	46		
			i		17	55		
	BOMBAY	N, E	e	19	17	40		Near. Very
		E	e		17	51		slight
	BOKARO	N, E	e	19	17	57		Tremor
03	SHILLONG	Z	e	20	16	25		Tremor
03	SHILLONG	Z	e	20	27	06		Tremor
03	SHILLONG	Z	iPg	22	02	50	30	Feeble
			i		02	53		Rarefaction
			iSg		03	01		
04	SHILLONG	Z	e	02	16	29		
04	SHILLONG	Z	i	02	17	32		
04	SHILLONG	Z	iP	02	41	56		Slight, distant Compression
04	SHILLONG	Z	iP	06	45	50		Slight, distant Compression
04	SHILLONG	Z	iP	11	07	22		Slight, distant Compression.

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
04	SHILLONG	Z	i	12	05	32		Tremor
04	SHILLONG	Z	eP	14	52	32		Slight, distant
04	SHILLONG	Z	e	16	17	54		Tremor
04	SHILLONG	Z, E	iP	18	38	30		Slight, near
		Z	e		39	05		Compression
		Z, E	i		39	52		
			e		40	17		
	TOCKLAI	E	eP	18	38	38		Slight, near.
			i		39	04		
04	CHATRA	Z	eP	18	39	48		Feeble
			i		41	15		
04	SHILLONG	Z	iP	20	28	37		Slight, distant
								Compression
04	SHILLONG	Z	eP	22	24	31		Slight,
			i		25	03		local.
04	CHATRA	Z	iP	23	11	58	140	Feeble
			iS		12	16		
05	SHILLONG	Z	iP	01	40	43		Slight, distant
								Compression
05	SHILLONG	Z	e	04	12	02		Slight, near
			i		13	04		
05	CHATRA	Z	i	04	41	20		Feeble, distant
05	SHILLONG	Z	iP	10	06	01		Slight, distant
								Rarefaction
05	SHILLONG	Z	e	10	13	27		Slight, near.
05	SHILLONG	Z	i	15	12	38		Tremor
05	SHILLONG	Z	e	19	00	52		Tremor
05	SHILLONG	Z	iP	20	02	30		Slight, distant
								Rarefaction
05	SHILLONG	Z	e	23	05	50		Tremor
05	SHILLONG	Z	eP	23	35	10		Slight, distant
			i		36	48		
	TOCKLAI	E	e	23	35	52		Slight, distant
06	SHILLONG	Z	iP	00	08	20		Slight, distant
								Compression
	TOCKLAI	E	eP	00	08	28		Slight, distant
06	SHILLONG	Z, N, E	eP	00	09	21		Slight, near
06	SHILLONG	Z	e	00	12	51		Slight, near
			i		12	57		
06	SHILLONG	Z	e	00	52	41		Feeble, local
06	SHILLONG	Z	eP	01	24	51		Slight, distant
			i		25	59		
06	SHILLONG	Z	iP	03	10	31		Slight, distant
								Rarefaction
06	Epd: 45°N, 149½°E. Kurile Islands H = 13h 12m 53s (U.S.C.G.S)							
	SHILLONG	Z, E	iP	13	21	49		Slight
	CHATRA	Z	iP	13	22	09		Slight
		E	eP					
	DEHRA DUN	N, E	e	13	22	40	6280	Feeble
			iS		30	31		
	POONA	Z	iP	13	23	52		Feeble
06	SHILLONG	Z	i	16	27	53		Tremor
06	SHILLONG	Z	e	20	07	18		Tremor
06	SHILLONG	Z	i	21	23	49		Tremor
07	TOCKLAI	E	eP	01	57	42		Slight, distant
07	SHILLONG	Z	iP	04	26	25		Slight, near
								Rarefaction.
07	BOMBAY	N	e	06	44	44		Very slight
			e		47	02		
	POONA	Z	eP	06	47	05		Feeble
07	SHILLONG	Z	e	08	15	52		
07	SHILLONG	Z	iP	11	35	15		Feeble, distant
								Compression
07	SHILLONG	Z	i	15	34	04		Tremor
07	SHILLONG	Z	iPg	15	47	11	110	Feeble
			iSg		47	23		Rarefaction
07	SHILLONG	Z	i	16	58	25		Tremor
07	SHILLONG	Z	e	20	43	27		Tremor
07	SHILLONG	Z	e	23	32	23		Tremor
08	SHILLONG	Z	ePg	01	53	34	160	Feeble
			eSg		53	54		
08	SHILLONG	Z	iP	02	56	23		Feeble, near
								Compression
08	SHILLONG	Z	e	06	24	57		Feeble, distant
			i		25	04		
08	SHILLONG	Z	e	07	37	22		Tremor
			i		37	47		
08	SHILLONG	Z	e	08	27	31		Feeble, near
			i		28	22		Compression
08	SHILLONG	Z	i	09	12	02		Tremor
08	TOCKLAI	E	eP	15	46	22		Slight, near
			i		46	24		
			i		46	38		
			i		46	40		
	SHILLONG	Z, E	iP	15	46	53	340	Slight
			iPg		47	04		Compression
			iSg		47	47		Felt at
								Dibrugarh.
08	SHILLONG	Z	e	19	35	00		Tremor
08	SHILLONG	Z	e	19	48	22		Tremor
08	SHILLONG	Z	e	20	00	18		Tremor
08	SHILLONG	Z	e	20	31	32		Tremor
08	SHILLONG	Z	i	20	31	36		Tremor
08	SHILLONG	Z	i	21	12	57		Tremor
08	SHILLONG	Z	e	21	17	57		Tremor
08	SHILLONG	Z	e	22	24	03		Tremor
08	SHILLONG	Z	e	22	39	16		
09	DEHRA DUN	N, E	e	01	35	21		Tremor
	SHILLONG	Z	e	01	36	18		Tremor
09	SHILLONG	Z	ePg	03	34	18	90	Slight
			iP		34	19		
			eSg		34	29		
			iS		34	30		
			eS		34	32		
09	SHILLONG	Z, E	iP	04	30	15	140	Slight, First
		N, E	ePP		30	25		movement South
			iS		30	33		and East
		E	BS		30	45		Compression
		N, E	SSS		30	55		Magn. 4
	CHATRA	Z	iP	04	30	43		Slight
		E	i		31	38		
09	SHILLONG	Z	i	08	06	36		Tremor
09	SHILLONG	Z	e	09	44	15		Tremor

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DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
09	SHILLONG	Z	e	10 40 25		Tremor
09	SHILLONG	Z	e	11 27 08		Tremor
09	SHILLONG	Z	e	11 51 50		Tremor
09	SHILLONG	Z	e	14 29 50		Tremor
09	SHILLONG	Z	e	15 54 40		Tremor
09	SHILLONG	Z	i	17 00 36		Tremor
09	SHILLONG	Z	e	17 04 48		
09	SHILLONG	Z	iP	19 21 28		Slight, distant Compression
09	SHILLONG	Z	e	21 20 21		Tremor
09	SHILLONG	Z	i	23 19 35		
09	SHILLONG	Z	i	23 55 43		Tremor
10	Epc: 7°S, 155½°E. Solomon Islands -- H= 02h 36m 21s (U.S.C.G.S)					
	PORT BLAIR	E	iP	02 47 13	7540	Slight
			iS	56 10		
			i	56 47		
	SHILLONG	Z	iP	02 47 37	8160	Slight, First
		N,E	iP	47 39		movement West
		E	PcP	48 05		Rarefaction
			pP	48 25		
			PP	50 22		
			i	52 32		
		N,E	iS	56 50		
		E	PS	57 59		
			SS	58 10		
			SSS	03 01 43		
	CALCUTTA	E	iP	02 47 52	8150	Moderate
			iS	57 21		
	CHATRA	E,Z	eP	02 48 05	8380	Slight
		E	iS	57 45		
	MADRAS	E	iP	02 48 24	8610	Moderate, First
			PP	51 25		movement East.
			PPP	53 10		
			iS	58 15		
			PS	58 57		
			PPS	59 15		
			SS	03 03 28		
			SSS	06 47		
			Lq	09 43		
			Lr	13 26		
	HYDERABAD	E	iP	02 48 37	8930	Slight, First
			iS	58 43		movement West
			PPS	59 54		
			SS	03 03 34		
			Lr	13 37		
			M	19 37		Per=18 secs μ = 3
	KODAIKANAL	E	e	02 48 41		Tremor
	DEHRA DUN	N,E	eP	02 48 54	9110	Slight
		N	PP	52 14		
			iS	59 08		
			PS	03 00 16		
			SS	04 45		
			SSS	07 45		
			Lq	10 55		
			M	22 38		
	POONA	Z	iP	02 48 59	9220	Slight
		N	PP	52 09		
		N,E	eS	59 18		
		N	PS	03 00 04		
			SS	04 38		
			PKKP1	07 13		
			SSS	08 21		
			PKKS1	10 49		
			Lr	15 22		
	BOMBAY	N,E	eP	02 49 05	9380	Slight
		N	eS?	59 31		
			e	59 46		

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
10	SHILLONG	Z	eP	03 44 50		Feeble, near
			i	45 43		
10	Epc: 7½°S, 155½°E. Solomon Islands -- H= 03h 43m 49s (U.S.C.G.S)					
	SHILLONG	Z,E	iP	03 55 04	7890	Slight, First
		N,E	iS	04 04 18		movement West
		E	i	05 31		Compression
	CHATRA	Z	eP	03 55 30		Slight
	POONA	Z	iP	03 56 26		Slight
10	BOMBAY	N,E	e	04 07 01		
10	SHILLONG	Z	e	04 49 47		Tremor
10	SHILLONG	Z	e	05 37 03		Tremor
10	Epc: 6½°S, 147°E. Near Northeast Coast of New Guinea. -- H= 05h 48m 57s (U.S.C.G.S).					
	SHILLONG	Z	eP	05 59 24	6890	Moderate
		E	iP	59 26		First move-
		N,E	iS	06 07 50		ment East.
	CHATRA	Z	iP	05 59 54	7480	Slight
		E	eP			
			iS	06 08 49		
	MADRAS	E	eP	06 00 14	7510	Moderate
			iS	09 16		
			PS	09 42		
			ScS	09 56		
			SS	13 30		
	HYDERABAD	E	e	06 10 28		
	KODAIKANAL	E	eP	06 00 28		
	DEHRA DUN	N,E	eP	06 00 47	8350	Slight
			iS	10 25		
	POONA	Z	iP	06 00 53	8500	Slight
		N	iS	10 38		
			PS	11 04		
			PPS	11 30		
			SS	15 20		
			SSS	18 29		
			Lr	24 34		
	BOMBAY	N,E	eP	06 01 01	8510	Very slight
		N	eS	10 47		Microseisms
		E	e	11 06		present.
10	SHILLONG	Z	e	08 33 56		Tremor
10	SHILLONG	Z	Mn	08 49 48		Per=18 secs μ = 7
10	SHILLONG	Z	i	08 54 15		Tremor
10	SHILLONG	Z	iP	10 40 47		Slight, distant Compression
10	DEHRA DUN	N,E	e	12 22 38		Tremor
10	SHILLONG	Z	e	12 23 25		Tremor
10	SHILLONG	Z	i	17 03 11		Tremor
10	SHILLONG	Z	iP	18 08 41		Slight, distant Compression
10	CHATRA	Z	iP	18 09 15		Feeble
			i	11 20		
10	Epc: 34°N, 139½°E. Near East Coast of Honshu, Japan. Felt: Tokyo. -- H= 19h 20m 05s (U.S.C.G.S)					
	TOCKLAI	E	eP	19 27 46		Slight
	SHILLONG	Z	eP	19 27 56	4670	First movement
		N,E	iP	27 58		South and West
		E	PP	29 42		
			PPP	30 14		
		N,E	iS	34 19		
		E	SS	37 30		
			e	40 07		
			M	43 25		
		N	Mn	19 43 e-		Per=18 secs μ =40

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
10 Contd.	CHATRA	Z,E	eP	19	28	24		Slight
	CALCUTTA	E	eP	19	28	36	5160	
			eS		35	24		
			SS		38	53		
			Lr		41	58		
			M		46	36		
			Mn		48	22		T_n = 58.
	BOKARO	N,E	e	19	30	37		Slight
	DEHRA DUN	N,E	eP	19	29	13	6040	Slight
		N	PP		31	11		
			iS		36	50		
			SSS		42	26		
			Lr		44	34		
			M		48	39		
10	HYDERABAD	E	eS	19	37	55		
			M		50	49		Per = 23 secs T_n = 7
10	SHILLONG	Z	e	19	35	43		Tremor
10	SHILLONG	Z	e	22	12	26		Tremor
10	SHILLONG	Z	iP	22	26	23		Slight, distant Rarefaction
10	SHILLONG	Z	e	23	48	21		Feeble, near
			e		49	40		
11	SHILLONG	Z	i	00	15	48		Tremor
11	CHATRA	Z	iPg	01	29	13	130	Feeble
			iSg		29	30		
11	SHILLONG	Z	iP	01	45	59		Feeble, local Rarefaction
11	SHILLONG	Z	eP	02	14	53		Feeble,
			e		15	30		near
11	SHILLONG	Z	e	03	17	17		Slight, near
			e		17	29		
11	SHILLONG	Z	e	03	56	41		Tremor
11	SHILLONG	Z	e	05	03	09		Tremor
11	SHILLONG	Z	e	05	03	50		Feeble, near
			e		03	58		
11	SHILLONG	Z	e	10	11	14		Feeble, near
11	SHILLONG	Z	eP	11	51	20		Slight,
			e		51	22		distant
11	SHILLONG	Z	i	12	07	34		Tremor
11	SHILLONG	Z	eP	14	23	43		Slight, distant
11	SHILLONG	Z	i	17	21	09		Tremor
11	SHILLONG	Z	e	17	54	45		Tremor
11	SHILLONG	Z	e	18	40	07		Tremor
11	SHILLONG	Z	e	21	38	39		Tremor
11	SHILLONG	Z	e	21	39	45		Tremor
11	SHILLONG	Z	e	23	17	38		Tremor
11	SHILLONG	Z	eP	23	18	18		Feeble, near
12	SHILLONG	Z	e	00	54	56		Tremor
12	SHILLONG	Z	eP	01	42	04		Slight, distant
12	PORT BLAIR	E	iPg	02	25	52		Slight
12	SHILLONG	Z	e	04	13	47		Tremor
12	SHILLONG	Z	eP	04	34	12	430	Slight
			Pg		34	18		
			eS		34	59		
			SS		35	11		
			Sg		35	21		
			i		35	23		
			i		35	30		
12	SHILLONG	Z	e	05	41	58		Tremor
12	SHILLONG	Z	e	06	10	36		Tremor
12	SHILLONG	Z	i	06	17	09		Tremor
12	SHILLONG	Z	i	06	29	16		Tremor
12	CHATRA	Z	iPg	08	50	40	100	Feeble
			iSg		50	53		
12	SHILLONG	Z	iP	09	42	37		Slight, distant Rarefaction
12	SHILLONG	Z	e	11	26	45		Tremor
12	SHILLONG	Z	e	11	27	57		Tremor
12	SHILLONG	Z	e	14	02	24		Tremor
12	SHILLONG	Z	i	14	02	27		Tremor
12	SHILLONG	Z	i	15	56	39		Tremor
12	SHILLONG	Z	ePg/P*	19	46	43	150	Slight
			P		46	44		
			PP		46	51		
			Sg/S*		47	01		
			S		47	03		
12	SHILLONG	Z	iPg	20	05	01	150	Slight
			eSg		05	17		
12	SHILLONG	Z	i	20	38	49		Tremor
12	SHILLONG	Z	i	20	40	04		Tremor
12	SHILLONG	Z	e	22	05	48		Tremor
12	SHILLONG	Z	i	22	06	09		Tremor
13	SHILLONG	Z	e	00	56	02		
13	SHILLONG	Z,N,E	iP	00	57	29		Slight, near
		Z,E	i		57	38		Compression
			i		57	53		Maga-4
		E	i		57	58		
			i		58	01		
		Z,N,E	i		58	20		
	TOCKLAI	E	e	00	57	35		Slight, near
	CALCUTTA	N	eP	00	57	41	250	Slight
			iS		58	12		
			Sg		58	20		
	CHATRA	Z	iP	00	58	05	530	Slight
			iS		59	01		
13	SHILLONG	Z	e	03	12	52		Tremor
13	POONA	Z	iP	03	39	44		Feeble
13	SHILLONG	Z	e	03	44	04		Tremor
13	SHILLONG	Z	eP	04	05	10	90	Feeble
			eS		05	22		
13	SHILLONG	Z	e	05	08	30		Tremor
13	DEHRA DUN	N,E	e	05	17	32		Tremor
13	SHILLONG	Z	eP	08	22	32	240	Slight
			P*		22	35		
			Pg		22	39		
			PP		22	45		
			i		22	51		
			eS		23	00		
			S*		23	02		
			Sg		23	08		
			SS		23	12		
13	SHILLONG	Z	iP	08	52	50		Slight, distant Compression
13	SHILLONG	Z	e	10	05	11		Tremor
13	SHILLONG	Z	eP	16	17	34	310	Feeble
			PP		17	42		
			eS		18	09		
			S*		18	14		
			SS		18	21		

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
13	Epc: 33°S, 179°W. Kermadec Islands Region. -- Hc: 17h 22m 41s (U.S.C.G.S). Magnitude: 6½-6¾ (Pasadena), 6¼ (Berkeley).					
	PORT BLAIR	E	eP	17 36 06		
			iS	46 05		
			PS	46 47		
			M	------		Per=±30 secs
						A =59
	SHILLONG	Z	e	17 39 41		Phases not clear
		E	e	40 54		
		N	e	45 28		
		E	e	45 34		
			i	47 33		
		N	i	47 43		
		E	e	48 14		
		N	i	49 51		
		E	i	50 16		
		N	i	50 21		
		E	i	51 25		
		N	i	56 09		
			i	59 20		
		Mn		18 06 31		Per=±23 secs
						A =±14
	KODAIKANAL	E	e	17 40 20		Tremor
	COLOMBO	E	e	17 40 22		
			e	50 10		
			e	18 12 20		
			e	17 42		Amp=±1.0 mm
	CALCUTTA	E	PP	17 41 09		
			e	47 44		
			e	50 45		
			e	51 34		
			e	18 00 44		
			e	07 19		
	HYDERABAD	E	ePP	17 41 48	12380	
			PPP	44 04		
			iPS	51 22		
			PPS	52 30		
			SS	58 09		
			Lr	18 15 39		
			M	23 30		Per=±21 secs
						A =± 5
	BOMBAY	N	e(PP)	17 42 30		
		N,E	e	52 16		
		E	M	18 25 18		Per=±23 secs
						A =± 2
		N	M	29 57		Per=±18 secs
						A =± 4
	DEHRA DUN	N,E	e(PP)	17 42 33		
		N	i	52 19		
			e	53 32		
			e	18 01 08		
			e	03 16		
			e	12 32		
13	SHILLONG	Z	eP	19 35 58		Slight, distant
			i	36 13		
14	SHILLONG	Z	eP	03 04 01		Tremor
14	SHILLONG	Z	e	04 04 47		Tremor
14	SHILLONG	Z	e	04 31 53		Tremor
14	SHILLONG	Z	iP	04 46 02		Slight, distant Rarefaction
14	SHILLONG	Z	iP	05 31 50		Slight, distant Compression
14	SHILLONG	Z	e	06 59 56		Tremor
14	SHILLONG	Z	e	09 28 18		Tremor
14	SHILLONG	Z	iP	11 56 33	1810	Slight
			iS	59 36		Rarefaction
15	CHATRA	Z	eP	01 24 22		Feeble
			i	27 22		
	SHILLONG	Z	eP	01 25 10		Slight, distant
	POONA	Z	eP	01 25 27		Feeble

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
15	SHILLONG	Z	iP	01 33 00	180	Slight
			iSg	33 23		Rarefaction
	CHATRA	Z	iP	01 33 40		Slight
			i	34 50		
15	CHATRA	Z	iPg	05 59 01	100	Feeble
			iSg	59 14		
15	SHILLONG	Z	iP	06 18 36		Slight, distant Compression
	CHATRA	Z	i	06 18 46		Feeble
15	SHILLONG	Z	iP	06 52 38		Slight, distant Compression
15	Epc: 8°N, 124½°E. Philippine Islands. -- h about 100 Kms Ca. -- Hc: 07h 52m 35s (Shillong). 8°N, 124½°E. Mindanao Island, Philippine Islands. Felt: Diplog, Dumaguete and Mambuja. -- Hc: 07h 52m 25s (U.S.C.G.S).					
	PORT BLAIR	E	iP	07 58 45	3350	
			PP	59 44		
			iS	08 03 14		
			Lr	07 20		
			M	09 40		Per=±15 secs
						A =±18
	SHILLONG	Z,N	iP	07 59 17	3890	Rarefaction
		E	iP	59 18		First movement
			pP	59 39		South and East
			sP	59 53		
		N	e	08 00 07		
		E	PP	00 42		
			PPP	01 04		
		N,E	iS	04 37		
		N	i	07 11		
		E	SS	07 20		
			SSS	07 51		
			M	12 48		
		N	Mn	15 --		Per=±14 secs
						A =± 5
	CHATRA	Z	eP	07 59 53		Slight
	BOKARO	N,E	iP	07 59 57	4270	Slight, First movement
		N	iS	08 05 53		South and East.
	COLOMBO	E	e	08 00 20		
			S	06 52		
			L	15 35		
			M	18 40		Amp=±0.3 mm
	MADRAS	E	iP	08 00 28	4940	
			PP	02 04		
			PPP	02 41		
			iS	06 52		
			PPS	07 07		
			i	10 26		
			Lq	10 53		
	HYDERABAD	N	eP	08 00 43	4970	
			eS	07 41		
			SS	11 01		
			Lq	11 59		
			Lr	13 32		
			M	18 38		Per=±19 secs
						A =±11
	KODAIKANAL	E	e	08 00 59		Tremor
	DEHRA DUN	N,E	eP	08 01 07	5220	Slight
			PPP	03 38		
			iS	07 59		
			Lq	12 30		
			SSS	12 43		
			M	18 33		
	POONA	Z	iP	08 01 20	5370	Moderate
		F	PP	03 20		
			PPP	04 16		
			eS	08 20		
			PPS	08 39		
			ScS	11 06		
	BOMBAY	N,E	eP	08 01 25	5560	Slight
			PP	03 21		
		N	e	05 41		

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
15 Contd.	BOMBAY Contd.	N,E	eS	08 08 36		
		N	SS	12 13		
		E	M	25 --		
		N	M	27 --		
15	CHATRA	Z	iP	13 01 56	110	Slight
		E,Z	iS	02 11		
15	SHILLONG	Z	e	13 02 38		Tremor
15	SHILLONG	Z	i	13 03 45		Tremor
15	SHILLONG	Z	i	13 36 37		Slight, distant Compression
15	SHILLONG	Z,E	iP	13 36 39	220	Slight
			P*	36 41		Compression
			Pg	36 44		
			PP	36 45		
		Z	eS	37 05		
			Sg	37 08		
	CHATRA	Z	iP	13 36 43		Slight
		E,Z	i	37 30		
15	SHILLONG	Z	eP	14 38 35		Slight, distant Compression
15	CHATRA	Z	i	14 39 13		Feeble, distant
15	SHILLONG	E	i	14 41 04		
15	Epc: 51½°N, 158°E. Near East Coast of Kamchatka. H = 16h 30m 29s (U.S.C.G.S)					
	CHATRA	Z	iP	16 40 05		Slight
	SHILLONG	Z	iP	16 40 05	6080	Compression
		N,E	iP	40 07		
			iS	47 44		
		E	e	48 08		
		N	Mn	17 02 --		Per. = 21 secs A = 12
	CALCUTTA	E	eP	16 40 19		Slight
			e	49 04		
	DEHRA DUN	N,E	eP	16 40 40	6640	Slight
			iS	48 50		
	PORT BLAIR	E	iP	16 41 15	7570	Slight
			PcP	41 39		
			iS	50 15		
	BOMBAY	N,E	eP	16 41 55	7980	Slight
		N	PcP	42 23		
		N,E	eS	51 15		
		N	PPS	52 13		
		N,E	M	17 17 --		
	POONA	Z	iP	16 41 56	7840	Slight
		N	iS	51 09		
			PPS	51 52		
			SS	55 56		
			SSS	59 11		
			Lr	17 04 58		
15	SHILLONG	Z	e	17 32 30		Tremor
15	COLOMBO	E	e	17 42 22		
			e	52 05		
			e	18 10 20		
			e	16 15		Amp. = 2.1 mm
15	SHILLONG	Z	e	19 16 29		Tremor
15	SHILLONG	Z	iP	20 09 37		Slight, distant Rarefaction
15	SHILLONG	Z	iP	22 54 57	110	Feeble
			i	55 00		Rarefaction
			iS	55 12		
15	SHILLONG	Z,E	iP	02 00 09		Slight, distant Compression
	CHATRA	Z	i	02 00 19		Slight, distant
	POONA	Z	iP	02 01 36		Feeble
			i	01 54		

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
16	SHILLONG	Z	iP	03 36 30		Slight, distant Compression
16	DEHRA DUN	N,E	e	10 30 01		Tremor
16	SHILLONG	Z	i	11 06 56		Tremor
16	SHILLONG	Z	iP	13 07 08		Slight, distant Compression
16	SHILLONG	Z	e	17 27 20		Tremor
16	SHILLONG	Z	eP	17 56 19		Slight, distant
	TOCKLAI	E	eP	17 56 31		Slight, distant
16	SHILLONG	Z	eP	18 06 51		Slight, distant
16	SHILLONG	Z	e	19 03 02		Tremor
16	TOCKLAI	E	e	19 15 09		Slight, distant
	SHILLONG	Z	eP	19 15 17		Slight, distant
			i	16 27		
16	TOCKLAI	E	eP	20 29 40		Slight, distant
	SHILLONG	Z	eP	20 29 49		Slight, distant
			i	30 23		
16	SHILLONG	Z	e	22 59 28		Tremor
16	TOCKLAI	E	eP	23 07 54		Slight, near
			i	08 05		
	SHILLONG	Z	iP	23 08 01	110	Feeble
			PP	08 07		Rarefaction
		Z,E	eS	08 16		
		N,E	i	08 20		
		Z,N	SS	08 26		
			SSS	08 36		
17	CHATRA	Z	iP	05 06 24		Slight
		E	i	13 16		
17	SHILLONG	Z	eP	05 16 10	220	Feeble
			P*	16 11		
			Pg	16 16		
			i	16 24		
			iS	16 35		
			i	16 39		
			i	16 45		
			i	16 52		
17	Epc: 49°N, 149½°E. Sea of Okhotsk. h about 350 Kms H = 05h 57m 48s (U.S.C.G.S).					
	SHILLONG	Z,E	iP	06 06 05	5000	Slight, deep
			i	06 11		Rarefaction
			i	06 33		First movement
		E	iS	12 44		East.
17	POONA	Z	iP	05 08 02		Feeble
			i	09 35		
	DEHRA DUN	N,E	e	06 14 06		Tremor
	PORT BLAIR	E	i	06 14 51		Slight
	BOMBAY	N,E	e	06 15 28		Very slight
		E	e	20 28		
17	SHILLONG	Z	e	08 13 02		Slight, near
			i	13 24		
			i	13 50		
			i	14 04		
17	PORT BLAIR	E	e	09 02 07		Slight
17	SHILLONG	Z	i	11 23 48		Tremor
17	BOMBAY	N,E	e	11 42 46		Very slight
		N	e	46 43		
17	COLOMBO	E	L	11 45 20		
			M	47 25		Amp. = 0.2 mm
17	SHILLONG	Z	iP	12 59 22		Slight, distant Compression.

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
17	POONA	Z	iP	16 01 05		Feeble
			i	01 17		
17	SHILLONG	Z	eP	15 43 08	500	Slight
			PP	43 15		
			Pg	43 18		
			eS	44 02		
			SS	44 13		
			Sg	44 29		
17	SHILLONG	Z	iP	18 02 11		Slight, distant Rarefaction
			i	03 02		
			i	06 08		
	POONA	Z	iP	18 04 26		Feeble
			i	04 52		
17	SHILLONG	Z	iPg	22 04 21	60	Feeble
			eSg	04 27		
		N,E	e	04 38		
		E	e	04 41		
17	SHILLONG	Z	eP	22 09 49	560	Slight
			PPP	10 02		
			Pg	10 06		
			Lq	10 36		
			eS	10 49		
			SS	10 58		
			S*	11 02		
		Z,E	SSS	11 11		
			Sg	11 15		
		E	i	11 20		
	TOCKLAI	E	eP	22 09 56		Slight
18	SHILLONG	Z	iPg/P*	04 52 41	90	Feeble
			iSg	52 50		Compression
			S*	52 52		
			S	52 55		
18	SHILLONG	Z	iP	08 23 13		Slight, distant Compression
18	SHILLONG	Z	iPg	09 07 35	70	Feeble
			P	07 38		Compression
			Sg	07 43		
			S	07 50		
18	POONA	Z	iP	10 24 41		Tremor
18	SHILLONG	Z	eP	10 29 59		Slight, distant
18	SHILLONG	Z	eP	15 05 11		Slight, distant
18	SHILLONG	Z	iP	15 21 41		Slight, distant Compression
18	SHILLONG	Z	i	15 57 37		Feeble, near
			i	57 47		
18	SHILLONG	Z	iP	20 03 48		Feeble, local
18	SHILLONG	Z	e	20 04 24		
18	SHILLONG	Z	e	20 17 22		Tremor
18	SHILLONG	Z	e	20 38 53		Tremor
			i	39 48		
18	PORT BLAIR	E	i	20 41 26		Slight
18	SHILLONG	Z	eP	20 42 58		Slight, distant
18	SHILLONG	Z	e	21 54 17		Tremor
18	SHILLONG	Z	e	22 51 03		Tremor
18	SHILLONG	Z	e	22 54 54		Tremor
18	PORT BLAIR	E	e	23 08 34		Slight
18	SHILLONG	Z	eP	23 12 00		Slight, distant
19	SHILLONG	Z	e	10 44 04		Tremor
19	SHILLONG	Z	iPg	11 23 42	60	Feeble
			i	23 45		Rarefaction
			iSg	23 52		

19 Epo: 47.9°N, 152¼°E. Kurile Islands. h about 100 Km
H = 15h 13m 29s (U.S.C.G.S).

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS
November 1957						
19 Contd.	SHILLONG	Z,E	iP	16 22 33		Slight Compression
			i	24 28		
			i	24 38		
		Z	i	30 30		
	CHATRA	Z	iP	16 22 50		Feeble
	POONA	Z	iP	16 24 29		Feeble
			i	25 16		
			i	25 23		
19	SHILLONG	Z	e	17 47 34		Tremor
19	SHILLONG	Z	e	18 48 16		Tremor
19	SHILLONG	Z	iP	19 15 05		Slight, distant Rarefaction
19	SHILLONG	Z	e	19 30 23		Tremor
19	SHILLONG	Z	e	19 30 50		Tremor
19	SHILLONG	Z	iP	19 33 50		Slight, distant Rarrfaction
			i	35 57		
19	SHILLONG	Z	i	19 55 33		Slight, near
			i	56 03		
19	SHILLONG	Z	iP	20 14 08		Slight, distant Rarefaction
	CHATRA	Z	i	20 14 33		Feeble
19	SHILLONG	Z	eP	22 00 58		Slight, distant
19	SHILLONG	Z	eP	23 22 45		Slight, distant
20	SHILLONG	Z	iP	02 39 31		Slight, distant Compression
			i	39 59		
20	SHILLONG	Z	iP	02 44 02		Slight, distant Compression
	CHATRA	Z	i	02 44 32		Feeble, distant
20	SHILLONG	Z	e	10 50 10		Tremor
20	SHILLONG	Z	eP	10 52 32	340	Slight
			Pg	52 44		
			eS	53 10		
			Sg	53 22		
	CHATKA	Z	iP	10 53 19		Feeble
			i	54 45		
20	CHATRA	Z	i	12 48 28		Slight, distant
20	Epo: 54°N, 165°W. Unimak Island H = 12h 40m 23s (U.S.C.G.S) Mags: 6¼-6½ (Berk).					
	SHILLONG	Z	eP	12 52 18	8670	
			i	52 48		
		N	e	53 24		
		E	i	53 28		
		N	i	13 02 09		
		E	iS	02 12		
		N	i	07 24		
			i	11 47		
			Mn	27 --		Per.=19 secs μ =24
	CALCUTTA	S	eP	12 52 33	9040	
			eS	13 02 42		
	DEHRA DUN	N,E	eP	12 52 39	8910	
		N	PP	55 41		
			iS	13 02 44		
			PPS	04 03		
			SSS	12 39		
			Lq	14 31		
			M	25 06		
	PORT BLAIR	E	iP	12 53 22	9450	
			iS	13 03 59		
			M	25 41		Per.=22 secs μ =28
	POONA	Z	iP	12 53 38		Phases not clear
		E	i	53 58		
			e	57 03		
			i	13 04 10		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
20 Contd.	BOMBAY	N,E	eP	12	53	38	10410	
		N	PP		57	24		
			SKS1	13	04	21		
		N,E	SKKS1		04	31		
			eS		04	46		
			SKS2		05	01		
		N	PS		06	10		
			M		40	06		Per. = 21 secs A = 17
		E	M		40	12		Per. = 19 secs A = 3
	MADRAS	E	eP	12	53	45	10500	
			SKKS	13	01	33		
			iS		04	56		
			PS		06	34		
			PPS		07	15		
20	SHILLONG	Z	eP	14	47	40		Slight, distant
20	SHILLONG	Z	e	16	19	38		Tremor
20	SHILLONG	Z	e	20	11	58		Tremor
20	DEHRA DUN	N,E	e	22	22	17		Tremor
20	SHILLONG	Z	e	23	42	03		Tremor
21	SHILLONG	Z	ePg	01	14	52	90	Feeble
			eSg		15	04		
21	SHILLONG	Z	e	03	52	38		Tremor
21	SHILLONG	Z	e	04	09	36		Feeble, near
			i		10	04		
21	Epc: ½°S, 127½°E. Halmahera Island Region - H = 05h 11m 30s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	05	19	40	4790	Slight
		N	e		19	43		Compression
		N,E	iS		26	07		
	CHATRA	Z	i(	05	20	14		Slight
		E	e)					
	POONA	Z	iP	05	21	18		Tremor
	BOMBAY	E	e(P)	05	21	25		Slight
		N	e(S)		29	15		
	DEHRA DUN	N,E	e	05	21	34		Feeble
			i(S)		29	05		
21	SHILLONG	Z	iP	06	35	04		Slight, distant Rarefaction
21	SHILLONG	Z	e	07	22	27		Tremor
21	SHILLONG	Z	iP	12	34	54	160	Feeble Rarefaction
			i		35	05		
			PPP		35	08		
			S/Sg		35	13		
			SS		35	25		
			SSS		35	36		
21	CHATRA	Z	iPg	15	22	05	80	Feeble
			iSg		22	17		
21	SHILLONG	Z	eP	18	05	54		Slight, distant
21	SHILLONG	Z	eP	18	53	07	250	Slight
			i		53	19		
			i		53	39		
			eS		53	35		
			i		53	47		
			i		53	51		
21	SHILLONG	Z	iP	19	05	50		Feeble, local.
		E	i		05	51		
		N,E	e		05	52		
			e		05	53		
21	SHILLONG	Z	e	19	11	50		Tremor
21	SHILLONG	Z	e	19	38	07		Tremor
21	SHILLONG	Z	iP	21	29	57		Slight, distant Compression
21	SHILLONG	Z	e	21	58	07		Tremor
21	SHILLONG	Z	iP	22	14	07		Slight, distant Compression.
22	SHILLONG	Z	e	04	02	12		Tremor
22	SHILLONG	Z	e	04	48	56		Tremor
22	SHILLONG	Z,N,E	eP	13	00	13	250	Feeble
		Z	Pg		00	20		
		E	e		00	25		
		Z	i		00	34		
		Z,N	iS		00	40		
		Z	Sg		00	47		
22	SHILLONG	Z	iP	16	18	47		Slight, distant Compression
22	SHILLONG	Z	e	16	54	25		Tremor
22	CHATRA	Z	iP	18	09	52		Slight
		E	i		11	03		
	SHILLONG	Z,E	iP	18	10	22		Slight, distant Rarefaction
22	SHILLONG	Z	eP	18	12	04		Slight, near
22	SHILLONG	Z	i	18	14	52		Tremor
22	SHILLONG	Z	i	18	15	07		Tremor
22	DEHRA DUN	N,E	e	18	24	23		Tremor
	SHILLONG	Z	iP	18	25	17		Slight, distant Compression
22	DEHRA DUN	N,E	e	21	04	01		Tremor
	SHILLONG	Z	eP	21	04	32		Slight, distant
22	SHILLONG	Z	iP	21	59	09		Slight, distant Rarefaction
		E	e		59	13		
		N,E	e	22	04	07		
	POONA	Z	eP	22	00	47		Feeble
23	Epc: 52½°N, 168°W. Fox Islands, Aleutian Islands - H = 00h 58m 33s (U.S.C.G.S).							
	TOCKLAI	E	eP	01	10	15		Slight
	SHILLONG	Z,E	iP	01	10	25		Slight Rarefaction
	CHATRA	Z	iP	01	10	35		Slight
	POONA	Z	iP	01	11	45		
23	SHILLONG	Z	e	03	46	18		Tremor
23	SHILLONG	Z	iP	08	38	59		Slight, distant Compression
23	SHILLONG	Z	e	13	15	29		Feeble, near
			i		15	36		
23	SHILLONG	Z	eP	13	30	08		Slight, distant
23	SHILLONG	Z	e	15	58	03		Feeble, near
			i		58	05		
			i		58	15		
23	SHILLONG	Z	eP	19	51	44		Slight, distant
23	SHILLONG	Z	e	22	17	27		Tremor
23	SHILLONG	Z	iP*	22	41	06	110	Feeble
			P/Pg		41	07		
			i		41	12		
			iS*/Sg		41	21		
			eS		41	22		
23	SHILLONG	Z	iPg	22	54	30	110	Feeble
			P		54	31		
			i		54	35		
			PP		54	39		
			Sg		54	43		
			S*		54	44		
			S		54	48		
24	SHILLONG	Z,E	iP	01	36	55		Slight, distant Compression
24	SHILLONG	Z	eP	03	12	56	220	Slight
			iPg		13	02		
			iS		13	21		
		Z,E	iSg		13	28		
		Z	SS		13	41		

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DATE	STATION	COMPT	PHASE	G.M.T. h.	m	s.	Δ km	REMARKS
November 1957								
17	POONA	Z	iP	16	01	05		Feeble
			i		01	17		
17	SHILLONG	Z	eP	16	43	08	500	Slight
			PP		43	15		
			Pg		43	18		
			eS		44	02		
			SS		44	13		
			Sg		44	29		
17	SHILLONG	Z	iP	18	02	11		Slight, distant Rarefaction
			i		03	02		
			i		06	08		
	POONA	Z	iP	18	04	26		Feeble
			i		04	52		
17	SHILLONG	Z	iPg	22	04	21	60	Feeble
			eSg		04	27		
		N, E	e		04	38		
		E	e		04	41		
17	SHILLONG	Z	eP	22	09	19	560	Slight
			PPP		10	02		
			Pg		10	06		
			Lq		10	36		
			eS		10	49		
			SS		10	58		
			S*		11	02		
		Z, E	SSS		11	11		
			Sg		11	15		
		E	i		11	20		
	TOCKLAI	E	eP	22	09	56		Slight
18	SHILLONG	Z	iPg/P*	04	52	41	90	Feeble
			iSg		52	50		Compression
			S*		52	52		
			S		52	55		
18	SHILLONG	Z	iP	08	23	13		Slight, distant Compression
18	SHILLONG	Z	iPg	09	07	35	70	Feeble Compression
			P		07	38		
			Sg		07	43		
			S		07	50		
18	POONA	Z	iP	10	24	41		Tremor
18	SHILLONG	Z	eP	10	29	59		Slight, distant
18	SHILLONG	Z	eP	15	05	11		Slight, distant
18	SHILLONG	Z	iP	15	21	41		Slight, distant Compression
18	SHILLONG	Z	i	15	57	37		Feeble, near
			i		57	47		
18	SHILLONG	Z	iP	20	03	48		Feeble, local
18	SHILLONG	Z	e	20	04	24		
18	SHILLONG	Z	e	20	17	32		Tremor
18	SHILLONG	Z	e	20	38	53		Tremor
			i		39	48		
18	PORT BLAIR	E	i	20	41	26		Slight
18	SHILLONG	Z	eP	20	42	58		Slight, distant
18	SHILLONG	Z	e	21	54	17		Tremor
18	SHILLONG	Z	e	22	51	03		Tremor
18	SHILLONG	Z	e	22	54	54		Tremor
18	PORT BLAIR	E	e	23	08	34		Slight
18	SHILLONG	Z	eP	23	12	00		Slight, distant
19	SHILLONG	Z	e	10	44	04		Tremor
19	SHILLONG	Z	iPg	11	23	42	60	Feeble Rarefaction
			i		23	45		
			iSg		23	52		
19	Epc: 47°N, 152½°E. Kurile Islands. h about 100 Km O.T.: 16h 13m 29s (U.S.C.G.S).							

DATE	STATION	COMPT	PHASE	G.M.T. h.	m.	s.	Δ km	REMARKS
November 1957								
19 Contd.	SHILLONG	Z, E	iP	16	22	33		Slight Compression
			i		24	28		
			i		24	38		
		Z	i		30	30		
	CHATRA	Z	iP	16	22	50		Feeble
	POONA	Z	iP	16	24	29		Feeble
			i		25	16		
			i		26	23		
19	SHILLONG	Z	e	17	47	34		Tremor
19	SHILLONG	Z	e	18	48	16		Tremor
19	SHILLONG	Z	iP	19	15	05		Slight, distant Rarefaction
19	SHILLONG	Z	e	19	30	23		Tremor
19	SHILLONG	Z	e	19	30	50		Tremor
19	SHILLONG	Z	iP	19	33	50		Slight, distant Rarefaction
			i		35	57		
19	SHILLONG	Z	i	19	55	33		Slight, near
			i		56	03		
19	SHILLONG	Z	iP	20	14	08		Slight, distant Rarefaction
	CHATRA	Z	i	20	14	33		Feeble
19	SHILLONG	Z	eP	22	00	58		Slight, distant
19	SHILLONG	Z	eP	23	22	45		Slight, distant
20	SHILLONG	Z	iP	02	39	31		Slight, distant
			i		39	59		Compression
20	SHILLONG	Z	iP	02	44	02		Slight, distant Compression
	CHATRA	Z	i	02	44	32		Feeble, distant
20	SHILLONG	Z	e	10	50	10		Tremor
20	SHILLONG	Z	eP	10	52	32	340	Slight
			Pg		52	44		
			eS		53	10		
			Sg		53	22		
	CHATRA	Z	iP	10	53	19		Feeble
			i		54	45		
20	CHATRA	Z	i	12	48	28		Slight, distant
20	Epc: 54°N, 155°W. Unimak Island O.T.: 12h 40m 23s (U.S.C.G.S) Mag.: 6¼-6½ (Berk).							
	SHILLONG	Z	eP	12	52	18	8670	
			i		52	48		
		N	e		53	24		
		E	i		53	28		
		N	i	13	02	09		
		E	iS		02	12		
		N	i		07	24		
			i		11	47		
			Mn		27	--		Per.: 19 secs μ: 24
	CALCUTTA	E	eP	12	52	33	9040	
			eS	13	02	42		
	DEHRA DUN	N, E	eP	12	52	39	8910	
		N	PP		55	41		
			IS	13	02	44		
			PPS		04	03		
			SSS		12	39		
			Lq		14	31		
			M		25	06		
	PORT BLAIR	E	iP	12	53	22	9450	
			iS	13	03	59		
			M		25	41		Per.: 22 secs μ: 28
	POONA	Z	iP	12	53	38		Phases not clear
		E	i		53	58		
			e		57	03		
			i	13	04	10		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
20 Contd.	BOMBAY	N,E	eP	12	53	38	10410	
		N	PP		57	24		
			SKS1	13	04	21		
		N,E	SKKS1		04	31		
			eS		04	46		
			SKS2		05	01		
		N	PS		05	10		
			M		40	06		Per = 21 secs A = 17
		E	M		40	12		Per = 19 secs A = 3
	MADRAS	E	eP	12	53	45	10500	
			SKKS	13	01	33		
			iS		04	56		
			PS		06	34		
			PPS		07	15		
20	SHILLONG	Z	eP	14	47	40		Slight, distant
20	SHILLONG	Z	e	16	19	38		Tremor
20	SHILLONG	Z	e	20	11	58		Tremor
20	DEHRA DUN	N,E	e	22	22	17		Tremor
20	SHILLONG	Z	e	23	42	03		Tremor
21	SHILLONG	Z	ePg	01	14	52	90	Feeble
			eSg		15	04		
21	SHILLONG	Z	e	03	52	38		Tremor
21	SHILLONG	Z	e	04	09	36		Feeble, near
			i		10	04		
21	Epi: ½°S, 127½°E. Halmahera Island Region H = 05h 11m 30s (U.S.C.G.S)							
	SHILLONG	Z,E	iP	05	19	40	4790	Slight
		N	e		19	43		Compression
		N,E	iS		26	07		
	CHATRA	Z	i	05	20	14		Slight
		E	e					
	POONA	Z	iP	05	21	18		Tremor
	BOMBAY	E	e(P)	05	21	25		Slight
		N	e(S)		29	15		
	DEHRA DUN	N,E	e	05	21	34		Feeble
			i(S)		29	05		
21	SHILLONG	Z	iP	06	35	04		Slight, distant Rarefaction
21	SHILLONG	Z	e	07	22	27		Tremor
21	SHILLONG	Z	iP	12	34	54	160	Feeble
			i		35	05		Rarefaction
			PPP		35	08		
			S/Sg		35	13		
			SS		35	25		
			SSS		35	36		
21	CHATRA	Z	iPg	15	22	05	80	Feeble
			iSg		22	17		
21	SHILLONG	Z	eP	18	05	54		Slight, distant
21	SHILLONG	Z	eP	18	53	07	250	Slight
			i		53	19		
			i		53	29		
			eS		53	35		
			i		53	47		
			i		53	51		
21	SHILLONG	Z	iP	19	05	50		Feeble, local.
		E	i		05	51		
		N,E	e		05	52		
			e		05	53		
21	SHILLONG	Z	e	19	11	50		Tremor
21	SHILLONG	Z	e	19	38	07		Tremor
21	SHILLONG	Z	iP	21	29	57		Slight, distant Compression
21	SHILLONG	Z	e	21	58	07		Tremor
21	SHILLONG	Z	iP	22	14	07		Slight, distant Compression.
22	SHILLONG	Z	e	04	02	12		Tremor
22	SHILLONG	Z	e	04	48	56		Tremor
22	SHILLONG	Z,N,E	eP	13	00	13	250	Feeble
		Z	Pg		00	20		
		E	e		00	25		
		Z	i		00	34		
		Z,N	iS		00	40		
		Z	Sg		00	47		
22	SHILLONG	Z	iP	16	18	47		Slight, distant Compression
22	SHILLONG	Z	e	16	54	25		Tremor
22	CHATRA	Z	iP	18	09	52		Slight
		E	i		11	03		
	SHILLONG	Z,E	iP	18	10	22		Slight, distant Rarefaction
22	SHILLONG	Z	eP	18	12	04		Slight, near
22	SHILLONG	Z	i	18	14	52		Tremor
22	SHILLONG	Z	i	18	15	07		Tremor
22	DEHRA DUN	N,E	e	18	24	23		Tremor
	SHILLONG	Z	iP	18	25	17		Slight, distant Compression
22	DEHRA DUN	N,E	e	21	04	01		Tremor
	SHILLONG	Z	eP	21	04	32		Slight, distant
22	SHILLONG	Z	iP	21	59	09		Slight, distant
		E	e		59	13		Rarefaction
		N,E	e	22	04	07		
	POONA	Z	eP	22	00	47		Feeble
23	Epi: 52½°N, 158°W. Fox Islands, Aleutian Islands H = 00h 58m 33s (U.S.C.G.S).							
	TOCKLAI	E	eP	01	10	15		Slight
	SHILLONG	Z,E	iP	01	10	25		Slight Rarefaction
	CHATRA	Z	iP	01	10	35		Slight
	POONA	Z	iP	01	11	45		
23	SHILLONG	Z	e	03	46	18		Tremor
23	SHILLONG	Z	iP	08	33	59		Slight, distant Compression
23	SHILLONG	Z	e	13	15	29		Feeble, near
			i		15	36		
23	SHILLONG	Z	eP	13	30	08		Slight, distant
23	SHILLONG	Z	e	15	58	03		Feeble, near
			i		58	05		
			i		58	15		
23	SHILLONG	Z	eP	19	51	44		Slight, distant
23	SHILLONG	Z	e	22	17	27		Tremor
23	SHILLONG	Z	iP*	22	41	06	110	Feeble
			P/Pg		41	07		
			i		41	12		
			iS*/Sg		41	21		
			eS		41	22		
25	SHILLONG	Z	iPg	22	54	30	110	Feeble
			P		54	31		
			i		54	36		
			PP		54	39		
			Sg		54	43		
			S*		54	44		
			S		54	48		
24	SHILLONG	Z,E	iP	01	36	55		Slight, distant Compression
24	SHILLONG	Z	eP	03	12	56	220	Slight
			iPg		13	02		
			iS		13	21		
		Z,E	iSg		13	28		
		Z	SS		13	41		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
24	CHATRA	Z	iP	03 12 56		Slight
Contd.		E, Z	i	13 34		
24	SHILLONG	Z	e	03 46 13		Feeble, near
			i	47 25		
24	SHILLONG	Z	e	19 34 41		Tremor
24	SHILLONG	Z	e	19 03 20		Tremor
24	SHILLONG	Z	e	22 10 01		Tremor
25	SHILLONG	Z, E	iP	00 34 25		Slight, distant Rarefaction
25	SHILLONG	Z, N	eP	00 54 03		Slight, near.
		Z	i	54 34		
25	SHILLONG	Z	iP	04 23 01		Slight, distant Compression
25	SHILLONG	Z	iP	04 33 33		Slight, distant Compression
25	SHILLONG	Z	e	06 57 22		Tremor
25	SHILLONG	Z	iP	07 47 36		Slight, distant Rarefaction
25	SHILLONG	Z	e	13 07 17		Tremor
25	SHILLONG	Z	e	15 32 09		Tremor
25	SHILLONG	Z	eP	15 54 23		Slight, distant
25	SHILLONG	Z	iP	18 02 36		Slight, distant Compression
25	Epc: 1½°S, 116°E. Near East Coast of Borneo - H = 22h 35m 00s (U.S.C.G.S).					
	TOCKLAI	E	iP	22 42 02		Slight, First movement East
	SHILLONG	Z, N, E	iP	22 42 05	4150	Moderate, First movement North and West.
			pP	42 27		Probable depth
			sP	42 40		100 Kms.
			PP	43 32		Compression
			PPP	43 57		
		N, E	iS	47 42		
			eS	48 20		
			i	49 58		
			SS	50 18		
			SSS	50 52		
	CALCUTTA	E	iP	22 42 08	4070	Moderate, First movement West
		N	iP	42 10		
		E	PP	43 30		
			iS	47 51		
		N	iS	47 52		
			SSS	50 30		
		E	ScS	52 28		
	COLOMBO	E	P	22 42 10	4210	
			PP	43 45		
			S	48 02		
			L	54 05		
			M	57 15		Amp = 1.2 mm
	VIZIANAGRAM	N, E	iP	22 42 21		Slight, First movement North and West.
	MADRAS	E	iP	22 42 27	4530	Moderate, First movement West.
			e	43 15		
			i	43 43		
			PP	44 02		
			PcP	44 22		
			ScP	48 00		
			iS	48 23		
			SS	51 11		
			Lq	51 31		
			PSS	51 53		
			ScS	52 09		
			Lr	53 16		
			M	56 48		
	BOKARO	N, E	iP	22 42 31	4350	Moderate, First movement North and West.
		N	e	42 59		
			eS	48 32		
	CHATRA	E, Z	iP	22 42 38	4600	Slight
		E	iS	48 54		
25	KODAIKANAL	E	iP	22 42 41	4600	First movement
Contd.			PP	44 23		West
			S	48 56		
			M	58 05		Per. = 15 secs A = 10
	HYDERABAD	E	iP	22 42 54	4580	Moderate
			PP	44 42		First
			PcS	46 42		movement West.
			iS	49 09		
			Lq	52 33		
			Lr	54 33		
			M	57 51		Per. = 13 secs A = 4
	POONA	E	iP	22 43 28	5360	Moderate.
			PcP	44 45		
			PP	45 20		
			PPP	46 03		
			iS	48 56		
			ScS	50 12		
			SSS	52 51		
			Lr	55 05		
			M	57 08		
	BOMBAY	N	eP	23 01 04		
		E	iP	22 43 37	5300	
		N, E	PP	45 30		
		N	eS	50 33		
		E	iS			
		N, E	PPS	50 47		
		N	e	53 03		
			ScS	53 25		
			SS	54 12		
			M	23 04 13		Per. = 18 secs A = 3
		E	M	04 43		Per. = 15 secs A = 2
	DEHRA DUN	N, E	eP	22 43 51	5420	Moderate
		N	PP	45 38		
			PPP	46 40		
			iS	50 54		
			SS	54 33		
			BES	55 35		
			Lr	57 45		
			M	23 01 51		
26	SHILLONG	Z	e	00 12 24		Tremor
26	DEHRA DUN	N, E	e	00 43 41		Feeble, Phases
			e	45 04		not clear
26	SHILLONG	Z	eP	00 46 01		Slight, distant
26	SHILLONG	Z	eP	01 11 03		Slight, near
26	MADRAS	E	e	01 48 18		Slight
			e	48 42		
			e	48 53		
			e	52 06		
			e	52 45		
	SHILLONG	Z	iP	01 48 42		Distant Compression
		N, E	eP			
		E	i	52 41		
	CHATRA	Z	i	01 49 07		Feeble, distant
26	Epc: 2°S, 116°E. Near East Coast of Borneo - H = 05h 10m 00s (U.S.C.G.S).					
	SHILLONG	Z, N, E	iP	05 17 05	4140	Moderate
			pP	17 25		Compression
			sP	17 37		First movement
			PP	18 32		North and West
			PPP	18 56		h = 100 Kms Ca.
		N, E	iS	22 42		
			eS	23 16		
			SS	25 13		
			SSS	25 48		
		E	i	27 26		
	CALCUTTA	N	iP	05 17 10	4070	Moderate
		E	eP			
		N	e	22 29		
			iS	22 53		
		E	iS	22 55		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
26 Contd.	COLOMBO	E	P	05 17 15	4120	
			PP	18 45		
			S	23 02		
			L	30 30		
			M	34 52		Amp. 1.1 mm
	MADRAS	E	iP	05 17 28	4330	Moderate, first movement Rest.
			i	17 56		
			PP	19 02		
			PcP	19 23		
			PPP	19 31		
			ScP	23 02		
			iS	23 26		
			SS	26 07		
			Lq	26 36		
			SSS	25 52		
			ScS	27 11		
			Lr	28 29		
			M	31 53		
	BOKARO	N, E	iP	05 17 32		Slight
		N	i	18 11		
			i	23 33		
	CHATRA	Z	iP	05 17 40	4490	Slight
		E	iS	23 49		
	HYDERABAD	E	iP	05 17 54	4580	First movement Rest.
			PcP	19 42		
			PPP	20 08		
			PcS	23 42		
			iS	24 09		
			PPS	24 31		
			Lq	27 36		
			Lr	29 30		
			M	32 48		Per. 12 secs. μ = 3
	POONA	E	iP	05 18 30	5090	Moderate
			PcP	19 50		
			PP	20 22		
			S	25 14		
			PPS	25 29		
			ScS	27 49		
			SSS	29 49		
			M	36 02		
	BOMBAY	N	ePϕ	05 18 40	5190	Slight
		E	iPϕ			
		N, E	PP	20 32		
		E	e	22 31		
			PcS	23 59		
		N	eSϕ	25 30		
		E	iSϕ			
			PPS	26 00		
			SS	28 50		
	DEHRA DUN	N, E	eP	05 18 55	5160	Slight
		N	PP	20 41		
			iS	25 43		
			SS	28 46		
			Lq	29 32		
			SSS	30 02		
			M	35 32		
25	SHILLONG	Z	e	06 41 39		Feeble, near
26	SHILLONG	Z	eP	08 25 23		Slight, distant
26	SHILLONG	Z	eP	11 39 16		Slight, distant
26	Epi: 51½°N, 175°W. Adreanof Islands, Aleutian Islands. Time: 11h 35m 44s (U.S.C.G.S).					
	SHILLONG	Z, N, E	iP	11 47 05	7980	Slight Compression
		N, E	iS	56 26		
	CHATRA	Z	i	11 47 20		Slight
	DEHRA DUN	N, E	eP	11 47 36	8750	Feeble
			iS	57 34		
	BOKARO	N, E	e	11 47 39		Sligh
	CALCUTTA	E	eP	11 47 43	8800	Slight
			eS	57 43		
	POONA	Z	iP	11 48 35	9690	Slight
		E	PP	52 01		
			PPP	54 02		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
25 Contd.	POONA	Z	SKKS	11 59 01		
			eS	59 14		
			PS	12 00 26		
			PPS	01 02		
			SS	05 13		
	BOMBAY	N	eP	11 48 38		Slight
			SKKS	59 15		
			e	59 30		
	DEHRA DUN	N	e	12 01 52		Feeble, near
	COLOMBO	E	e	12 34 16		
			M	38 40		Amp. 0.2 mm
25	SHILLONG	Z	e	11 56 25		
26	SHILLONG	Z	i	12 00 01		
25	SHILLONG	Z	eP	13 41 47		Slight, distant
26	SHILLONG	Z	iP	14 29 40		Slight, distant
25	SHILLONG	Z	iP	18 [illegible] 52		Slight, distant Compression
26	SHILLONG	Z	eP	16 44 03		Feeble, near.
25	SHILLONG	Z	eP	18 30 37		Slight, distant
25	SHILLONG	Z	e	19 08 13		Tremor
25	SHILLONG	Z	eP	19 12 53		Slight, distant
26	SHILLONG	Z	e	19 53 21		Feeble, near
26	SHILLONG	Z	e	20 30 55		Tremor
25	SHILLONG	Z	e	21 17 25		
25	SHILLONG	Z	eP	22 51 58		Slight, distant
26	SHILLONG	Z, E	iP	23 00 22		Slight, near
			i	10 10		
	CHATRA	Z	iP	23 10 10		Slight
		E	i	12 13		
26	SHILLONG	Z	e	23 43 28		
27	CHATRA	Z	iϕ	03 17 35		Slight, distant
		E	eϕ			
	SHILLONG	Z, E	iP	03 [illegible]		Slight [illegible] Compression
27	SHILLONG	Z	eP	03 28 21		Slight, distant Compression
	CHATRA	Z	i	03 29 02		Feeble, distant
27	SHILLONG	Z	iP	03 41 38		Slight, distant Compression
27	CHATRA	Z	iP	05 31 37	220	Slight
			iS	32 03		
27	SHILLONG	Z	e	08 27 32		
27	SHILLONG	Z	eP	08 41 44		Slight, distant
27	SHILLONG	Z	iP	08 47 03		Slight, distant Compression
27	SHILLONG	Z	iP	10 18 45		Slight, distant Rarefaction
27	SHILLONG	Z	iP	10 48 51	250	Slight Compression
		Z, N, E	iS	49 21		
27	SHILLONG	Z	iP	16 43 17		Slight, distant Compression
27	SHILLONG	Z	eP	19 13 19		Slight, distant
28	SHILLONG	Z	e	00 35 37		Tremor
28	SHILLONG	Z	iPg	02 53 00	130	Feeble
			iSg	53 15		Rarefaction

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
28	SHILLONG	Z	iP	05 16 47		Slight, distant Compression
28	SHILLONG	Z	e	05 41 31		Tremor
28	SHILLONG	Z	e	07 41 15		
			i	41 11		
28	SHILLONG	Z	eP	16 00 49		Slight, distant
28	DEHRA DUN	N, E	e	17 07 35		Tremor
28	SHILLONG	Z	iP	17 09 27		Slight, distant Rarefaction
28	SHILLONG	Z	e	19 17 13		Tremor
28	SHILLONG	Z	iPg	20 50 25		Feeble, local
			i	50 26		
28	Epc: 15°S, 168½°E. New Hebrides Islands - R = 20h 50m 10s (U.S.C.G.S).					
	SHILLONG	Z	iP	21 02 45	9330	Moderate Compression
		N, E	eP			
		N, E	iS	13 09		
	CHATRA	Z	iP	21 03 06	9890	Slight
		E	eP			
			iS	13 53		
	COLOMBO	E	P	21 03 19		
			e	13 46		
			e	35 59		
			e	42 36		Amp = 0.2 mm
	MADRAS	E	eP	21 03 20		Slight
			e	04 48		
			e	09 10		
			e	12 07		
			e	13 52		
28	BOMBAY	E	e	21 15 17		Feeble
		N	e	15 36		
			e	16 22		
28	SHILLONG	Z	iP	21 43 58		Slight, distant Compression
28	SHILLONG	Z	e	22 59 54		
29	SHILLONG	Z, E	iP	00 04 55		Slight
		Z	i	05 03		very near
		Z, E	i	05 07		
	TOCKLAI	E	eP	00 05 05		Slight, near
			i	05 11		
	CHATRA	Z	iP	00 05 49		Slight
		E, Z	i	07 22		
29	SHILLONG	Z	i	00 36 52		Tremor
29	SHILLONG	Z	e	01 00 47		Tremor
29	POONA	Z	eP	01 55 51		Tremor
29	SHILLONG	Z	e	15 07 15		Tremor
29	SHILLONG	Z	iP	17 55 48		Slight, distant Rarefaction
29	SHILLONG	Z	iPg	19 38 21	30	Feeble
		Z, E	iSg	38 24		
29	SHILLONG	Z, N, E	iPg	21 34 38	110	Slight, First movement East Compression. Felt at Shillong
		N, E	iSg	34 51		
	TOCKLAI	E	eP	21 35 01		Slight, near
			e	35 28		
			e	35 38		
	CHATRA	Z	iP	21 35 38		Slight
		E, Z	i	37 14		
	CALCUTTA	N	e	21 36 00		Slight, near
			i	36 16		
29	TOCKLAI	E	e	22 15 43		Slight, distant

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
November 1957						
29	Epc: 21°S, 66°W. Southern Bolivia. Slight damage in Northern Chile. - h about 200 Km. - R = 22h 19m 38s (U.S.C.G.S) Magnitude = 7¾-8(Pas), 7½(Berk).					
	POONA	Z	e(PKP)	22 38 53		
	BOMBAY	N	ePKP	22 38 56		
		E	iPKP			
		N	e			
		E	i	39 55		
		N, E	e	41 41		
		E	i	42 37		
			i	42 57		
		N, E	e	43 39		
			i	44 09		
			i	45 02		
			e	48 32		
			e	49 07		
			e	54 17		
		N	e	22 00 39		
		E	e	01 51		
			e	36 26		Per = 23 secs μ = 5
		N	e	39 26		Per = 19 secs μ = 5
	KODAIKANAL	L	ePKP	22 39 01		First movement West.
			e	43 46		
			e	48 40		
			e	53 52		Per = 19 secs μ = 20
	COLOMBO	E	PKP	22 39 03		
			e	48 45		
			e	52 12		
			e	23 34 08		
			e	40 45		Amp = 2.3 mm
	DEHRA DUN	N, E	ePKP	22 39 07		
		N	e	42 11		
			e	44 03		
			i	48 59		
			e	49 43		
			e	50 09		
			e	53 59		
			e	57 43		
			e	23 01 12		
			e	04 47		
			e	12 34		
	MADRAS	E	iPKP	22 39 08		First movement West.
			i	40 10		
			e	41 58		
			i	43 16		
			e	43 40		
			i	48 28		
			e	49 03		
			e	49 08		
			e	53 15		
			e	58 48		
			e	23 01 55		
	VIZIANAGRAM	N, E	ePKP	22 39 16		
	SHILLONG	Z	PKP1	22 39 17	17577	Rarefaction
		Z, E	i(P)	39 23		First movement
		N, E	PKP2	39 58		West.
			i	40 57		
			PP1	43 35		
		N	PP2	46 28		
			PKKP1	47 28		
			SKKS1	50 05		
			PPS	56 35		
			SS	23 03 42		
			SSP	04 27		
			SSS	09 27		
			Lq	25 42		
			Lr	34 27		
			N	47 12		Per = 25 secs μ = 44
	CHATRA	E, Z	iPKP	22 39 17		
		E	i	49 46		
	BOKARO	N, E	iPKP	22 39 19		First movement
		N	i	39 26		South and West
			e	40 26		
			e	42 49		
			i	44 25		
			i	44 51		
			e	45 58		
			e	47 23		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
29 Contd.	CALCUTTA	N	ePKP	22	39	27		
			i		40	25		
			i		41	05		
	TOCKLAI	E	ePKP	22	39	29		
30	COLOMBO	E	L	02	14	30		
			M		17	10		Amp=±0.1 mm
30	TOCKLAI	E	eP	11	37	12		Slight
	SHILLONG	Z,E	iP	11	37	13	400	Slight
			Pg		37	26		Compression
			iS		37	56		
			Sg		38	13		
30	SHILLONG	Z,E	iP	16	58	34	300	Slight
			Pg		58	44		Compression
			eS		59	07		
			Sg		59	16		
30	SHILLONG	Z	eP	17	51	15		Feeble
30	TOCKLAI	E	eP	19	20	22		Slight
	SHILLONG	Z,E	iP	19	20	48	610	Slight
			PP		20	54		Rarefaction
			PPP		21	02		
			i		21	13		
		Z,N,E	iS		21	53		
		Z,E	SS		22	05		
			SSS		22	13		
30	SHILLONG	Z	iP	20	37	39		Slight, distant Rarefaction
30	Epc: 47°N, 154½°E. Kurile Islands Ho: 21h 37m 11s (U.S.C.G.S).							
	SHILLONG	Z	iP	21	46	34		Slight Compression
	CHATRA	Z	iP	21	46	53		Feeble
	DEHRA DUN	N,E	eP	21	47	19		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
November 1957								
30	Epc: 47°N, 154°L. Kurile Islands Ho: 21h 54m 10s (U.S.C.G.S).							
	SHILLONG	Z,N,E	iP	22	03	31		Slight
		N,E	i		11	21		Compression
	CHATRA	Z	iP					
		E	eP	22	03	50		Slight
	CALCUTTA	N,E	eP	22	04	06	7310	Slight
			eS		11	59		
	DEHRA DUN	N,E	eP	22	04	20		Feeble
			e(S)		12	18		
	POONA	Z	iP	22	05	25	7950	Slight
		E	PP		08	11		
			PPP		09	50		
		N,E	eS		14	44		
		E	PS		15	19		
			PPS		16	44		
	BOMBAY	N,E	eP	22	05	31	7840	Slight
			eS		14	14		
		E	e		15	46		
		N	e		16	08		
	COLOMBO	E	e	22	07	08		
			S		15	22		
			L		40	55		
			M		44	55		Amp=±0.1 mm
30	SHILLONG	Z	eP	22	20	47		Feeble, near
30	SHILLONG	Z	iP	23	08	30		Slight, distant. Rarefaction
30	SHILLONG	Z	eP	23	13	14		Tremor.

Earthquake Reports
(Non Instrumental Reports)

The following table contains a list of Earthquakes that were reported by Voluntary Observers from various stations during the month of November 1957.

PLACE AT WHICH FELT	DATE IN G.M.T.	TIME IN G.M.T. h. m.	DURATION OF SHOCKS IN secs.	INTENSITY IN R.F. SCALE	NO. OF SHOCKS	REMARKS
DIBRUGARH	08	15 45	5	V	2	

International Seismological Centre From the ISC collection scanned by SISMOS

MICROSEISMIC TABULATION

Station: SHILLONG. Component: E-W. Month: November 1957

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs.
01	00	-	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
02	00	0,0	-	-
	06	3	0.2	5.2
	12	3	0.1	5.2
	18	3	0.2	4.6
03	00	3	0.2	5.0
	06	3	0.2	4.2
	12	0,.	-	-
	18	3	0.2	4.3
04	00	3	0.2	4.8
	06	3	0.3	4.8
	12	3	0.3	4.4
	18	2	0.3	4.8
05	00	0,0	-	-
	06	3	0.3	4.9
	12	2	0.3	4.5
	18	2	0.3	5.2
06	00	-	-	-
	06	3	0.2	4.8
	12	3	0.3	4.8
	18	0,0	-	-
07	00	0,0	-	-
	06	0,0	-	-
	12	3	0.3	4.8
	18	3	0.2	4.8
08	00	0,0	-	-
	06	0,0	-	-
	12	3	0.2	4.0
	18	3	0.2	5.0
09	00	3	0.3	4.6
	06	0,0	-	-
	12	3	0.3	4.7
	18	3	0.4	4.9
10	00	2	0.3	5.0
	06	-	-	-
	12	2	0.4	5.0
	18	2	0.4	4.8
11	00	3	0.3	4.5
	06	1	0.4	4.8
	12	1	0.6	5.1
	18	1	0.3	4.8
12	00	2	0.4	4.8
	06	2	0.4	4.8
	12	2	0.5	4.7
	18	2	0.4	4.7
13	00	2	0.4	5.0
	06	2	-	5.2
	12	2	0.5	4.8
	18	-	-	-
14	00	2	0.4	4.9
	01	2	0.3	4.8
	02	2	0.4	5.1
	03	2	0.3	4.8
	04	2	0.3	4.6
	05	2	0.4	5.0
	06	2	0.4	4.7
	07	2	0.4	4.8
	08	2	0.3	4.6
	09	2	0.3	4.7
	10	2	0.3	4.8
	11	2	0.4	4.8
	12	2	0.4	4.8
	13	2	0.4	4.8
	14	2	0.4	4.5
	15	2	0.4	4.6
	16	2	0.5	4.8
	17	2	0.4	4.7
	18	2	0.4	4.7
	19	2	0.4	4.6
	20	2	0.4	4.8
	21	2	0.4	5.0
	22	2	0.3	5.0
	23	2	0.4	4.8
15	00	2	0.4	4.8
	06	2	0.4	5.0
	12	2	0.4	4.7
	18	3	0.3	4.9
16	00	3	0.3	4.8
	06	3	0.4	5.0
	12	2	0.4	4.7
	18	2	0.3	4.8
17	00	2	0.4	5.0
	06	-	-	-
	12	2	0.3	4.5
	18	2	0.4	5.1
18	00	2	0.3	4.7
	06	3	-	-
	12	3	0.3	4.7
	18	3	0.4	5.0
19	00	3	0.3	4.8
	06	3	0.2	4.7
	12	3	0.3	5.0
	12	1	0.7	7.0
20	00	1	0.6	6.8
	06	1	0.5	5.2
	12	1	0.4	5.0
	18	2	0.3	4.8
21	00	1	0.4	5.0
	06	-	-	-
	12	3	-	-
	18	2	0.3	5.0
22	00	2	0.4	4.9
	06	3	0.3	4.7
	12	2	0.3	5.0
	18	2	0.4	4.8
23	00	2	0.2	4.3
	06	0..	-	-
	12	0..	-	-
	18	3	0.3	4.8
24	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
25	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
26	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	0..	-	-
27	00	0..	-	-
	06	0..	-	-
	12	3	0.3	4.8
	18	0,0	-	-
28	00	3	0.2	4.7
	06	3	0.2	4.6
	12	3	0.2	5.4
	18	3	0.2	5.2
29	00	3	0.2	5.0
	06	-	-	-
	12	3	0.2	5.0
	18	0..	0.2	5.6
30	00	-	-	-
	06	0..	0.2	5.2
	12	3	0.2	3.8
	18	0..	0.2	4.6

::::::::

Station: BOMBAY. Component: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs.
01	00	2	0.4	4.4
	06	2	0.3	4.5
	12	2	0.3	4.9
	18	2	0.3	5.0
02	00	2	0.3	4.8
	06	-	-	-
	12	-	-	-
	18	2	0.4	4.6
03	00	-	-	-
	03	-	-	-
	06	1	0.5	4.1
	09	1	0.5	4.4
	12	1	0.5	4.3
	15	1	0.7	4.0
	18	1	0.5	3.8
	21	1	0.5	4.0
04	00	1	0.5	3.9
	03	1	0.6	4.0
	06	1	0.5	3.5
	09	1	0.6	3.7
	12	1	0.7	3.5
	15	1	0.6	3.7
	18	1	0.6	3.8
	21	1	0.5	3.4
05	00	1	0.5	3.0
	03	-	-	-
	06	-	-	-
	09	-	-	-
	12	-	-	-
	15	-	-	-
	18	-	-	-
	21	-	-	-
06	00	2	0.5	4.0
	06	2	0.5	4.1
	12	2	0.3	4.2
	18	2	0.3	3.8
07	00	2	0.4	4.2
	06	2	0.4	4.3
	12	2	0.4	4.0
	18	2	0.5	4.6
08	00	2	0.3	4.5
	06	-	-	-
	12	2	0.3	4.0
	18	2	0.3	4.7
09	00	2	0.3	4.7
	06	2	0.3	4.3
	12	2	0.3	4.0
	18	2	0.5	3.7
10	00	-	-	-
	03	-	-	-
	06	-	-	-
	09	1	0.9	3.5
	12	1	1.1	4.0
	15	1	1.7	3.7
	18	1	3.3	3.9
	21	1	4.7	4.0
11	00	1	5.2	3.9
	03	1	6.2	4.0
	06	1	6.9	4.1
	09	1	6.7	3.9
	12	1	5.7	4.1
	15	1	5.5	3.9
	18	1	5.5	4.0
	21	1	3.7	3.9
12	00	1	3.1	4.0
	03	1	2.6	3.9
	06	1	2.5	3.8
	09	1	2.3	3.2
	12	1	2.5	2.7
	15	1	2.1	3.2
	18	1	1.9	3.3
	21	1	1.5	3.4
13	00	1	-	-
	03	1	1.1	3.4
	06	1	1.1	3.4
	09	1	1.0	3.1
	12	1	1.0	3.3
13	15	1	0.9	3.2
Contd.	18	1	-	-
	21	1	0.7	3.6
14	00	-	-	-
	01	2	0.7	3.4
	02	-	-	-
	03	2	0.5	3.8
	04	2	0.6	3.7
	05	2	0.6	4.0
	06	2	0.6	3.7
	07	2	0.6	3.8
	08	2	0.5	3.9
	09	2	0.5	3.9
	10	2	0.6	4.3
	11	2	0.5	4.5
	12	2	0.5	4.0
	13	2	0.5	3.8
	14	2	0.5	4.0
	15	2	0.6	3.8
	16	2	0.5	4.0
	17	2	0.6	3.8
	18	2	0.5	3.9
	19	2	0.5	4.2
	20	2	0.5	4.4
	21	2	0.5	4.2
	22	2	0.5	4.1
	23	2	0.5	4.0
15	00	2	0.5	4.4
	06	2	0.5	4.3
	12	-	-	-
	18	-	-	-
16	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
17	00	-	-	-
	06	2	0.3	4.7
	12	2	0.5	5.2
	18	2	0.3	4.4
18	00	-	-	-
	06	2	0.4	4.5
	12	2	0.4	4.4
	18	2	0.4	4.5
19	00	2	0.3	4.5
	06	-	-	-
	12	2	0.4	4.6
	18	2	0.5	5.8
20	00	2	0.5	5.1
	06	2	0.4	5.0
	12	2	0.4	5.0
	18	2	0.3	4.7
21	00	2	0.4	5.0
	01	2	0.3	4.4
	02	2	0.4	4.9
	03	-	-	-
	04	-	-	-
	05	2	0.4	4.5
	06	-	-	-
	07	2	0.4	4.5
	08	2	0.4	5.1
	09	2	0.4	4.8
	10	2	0.5	4.4
	11	2	0.3	4.6
	12	2	0.5	5.0
	13	2	0.4	4.8
	14	2	0.5	5.1
	15	2	0.5	4.5
	16	3	0.5	5.0
			0.2	2.3
	17	3	0.5	4.7
			0.2	2.3
	18	3	0.4	4.3
			0.1	2.0
	19	3	0.4	4.5
			0.2	2.0
	20	3	0.5	4.4
			0.3	2.1
	21	3	0.4	4.8
			0.1	2.4
	22	3	0.4	4.9
			0.1	2.2

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DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs.
Station: BOMBAY (Contd.) Component: E-W.				
21 Contd.	23	3	0.5	4.6
			0.1	2.2
22	00	-	-	-
	01	-	-	-
	02	3	0.5	5.0
			0.2	2.1
	03	3	0.3	4.9
			0.1	2.5
	04	-	-	-
	05	3	0.4	5.0
			0.1	2.0
	06	3	0.4	4.5
			0.1	2.2
	07	3	0.5	4.6
			0.1	2.0
	08	3	0.5	5.2
			0.1	2.1
	09	3	0.5	4.5
			0.1	2.3
	10	3	0.3	4.8
			0.1	2.2
	11	3	0.3	4.5
			0.1	1.0
	12	3	0.3	5.3
			0.1	2.0
	13	3	0.4	4.5
			0.1	2.1
	14	3	0.4	4.7
			0.1	2.2
	15	3	0.3	4.6
			0.1	2.2
	16	3	0.4	5.0
			0.1	2.1
	17	3	0.3	4.7
			0.1	2.0
	18	3	0.3	4.7
			0.2	2.0
	19	3	0.3	4.7
			0.1	2.0
	20	3	0.4	5.0
			0.1	2.1
	21	3	0.3	4.3
			0.1	2.1
	22	3	0.5	4.8
			0.1	2.0
	23	3	0.3	5.1
			0.1	2.0
23	00	3	0.3	4.8
			0.1	2.1
	06	3	0.3	4.8
			0.1	2.0
	12	3	0.3	4.9
			0.1	2.3
	18	3	0.3	4.5
			0.1	2.4
24	00	3	0.3	4.5
			0.1	2.6
	06	3	0.3	4.3
			0.1	2.2
	12	3	0.3	4.2
			0.1	2.8
	18	3	0.3	4.2
			0.1	2.6
25	00	-	-	-
	06	2	0.3	3.2
	12	2	0.2	3.3
	18	2	0.3	3.1
26	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	2	0.4	2.6
27	00	2	0.5	3.5
	06	2	0.3	3.4
	12	2	0.3	3.4
	18	2	0.3	3.1
28	00	2	0.3	3.3
	06	2	0.3	3.7
	12	2	0.3	3.8
	18	2	0.3	3.4
29	00	2	0.3	3.3
	06	2	0.3	3.2
29 Contd.	12	2	0.5	3.4
	18	2	0.5	3.4
30	00	-	-	-
	06	2	0.5	3.8
	12	2	0.5	3.2
	18	2	0.4	3.4
Station: MADRAS				
01	00	3	0.3	2.4
	03	3	0.4	2.7
	06	3	0.4	2.6
	12	3	0.3	2.6
	18	3	0.5	2.5
02	00	3	0.4	2.7
	03	1	0.5	2.7
	06	1	0.5	2.5
	12	1	0.6	2.7
	18	1	0.6	2.6
03	00	3	0.6	2.9
	03	1	0.8	2.6
	06	1	0.8	2.7
	12	1	0.9	2.9
	18	1	0.9	2.9
04	00	1	1.0	2.6
	03	1	1.1	2.6
	06	1	1.0	2.6
	09	1	1.2	2.7
	12	1	1.2	2.6
	15	1	1.0	2.6
	18	1	1.0	2.7
	21	1	1.1	2.7
05	00	1	0.9	2.7
	03	1	0.8	2.6
	06	1	0.7	2.7
	12	1	0.7	2.8
	18	1	0.6	2.7
06	00	1	0.6	2.7
	03	1	0.6	2.8
	06	1	0.6	2.8
	12	1	0.5	2.8
	18	1	0.4	2.7
07	00	1	0.4	2.7
	03	1	0.4	2.6
	06	1	0.4	2.5
	12	1	0.3	2.7
	18	1	0.4	2.6
08	00	3	0.3	2.7
	03	3	0.3	2.1
	06	3	0.3	2.4
	12	3	0.3	2.4
	18	3	0.5	2.5
09	00	3	0.4	2.7
	03	3	0.4	2.8
	06	3	0.4	2.9
	12	3	0.5	2.9
	18	3	0.5	2.7
10	00	3	0.6	3.2
	03	3	0.5	2.9
	06	3	0.6	3.5
	12	3	0.8	4.0
	18	3	0.9	3.0
11	00	1	1.6	3.7
	03	1	1.3	4.0
	06	1	1.2	3.8
	12	1	1.1	3.5
	18	1	1.0	3.7
12	00	3	0.7	3.5
	03	3	0.6	3.6
	06	3	0.6	3.3
	12	3	0.6	3.4
	18	3	0.5	3.4
13	00	3	0.4	3.2
	03	-	-	-
	06	-	-	-
13 Contd.	12	-	-	-
	18	-	-	-
14	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	3	0.4	3.9
	04	3	0.4	3.9
	05	3	0.4	4.0
	06	3	0.4	4.1
	07	3	0.4	3.9
	08	3	0.4	3.9
	09	3	0.4	3.9
	10	3	0.5	4.1
	11	3	0.5	3.9
	12	3	0.5	4.1
	13	3	0.5	4.1
	14	3	0.5	4.1
	15	3	0.4	3.9
	16	3	0.5	4.1
	17	3	0.5	4.2
	18	3	0.5	4.1
	19	3	0.5	4.0
	20	3	0.4	3.9
	21	3	0.4	3.8
	22	3	0.4	3.9
	23	3	0.4	4.0
15	00	3	0.5	3.9
	03	3	0.5	3.7
	06	3	0.5	3.5
	12	3	0.5	3.6
	18	3	0.5	3.7
16	00	3	0.4	3.4
	03	3	0.4	3.1
	06	3	0.5	3.0
	12	3	0.5	2.8
	18	3	0.4	2.7
17	00	3	0.5	2.8
	03	3	0.4	3.0
	06	3	0.5	3.1
	12	1	0.6	3.0
	18	1	0.6	2.9
18	00	1	0.6	2.9
	03	1	0.7	3.2
	06	1	0.6	3.0
	12	1	0.6	2.9
	18	1	0.6	2.9
19	00	3	0.6	2.9
	03	3	0.5	2.8
	06	3	0.4	2.6
	12	1	0.5	2.5
	18	1	0.5	2.5
20	00	3	0.6	2.6
	03	3	0.5	2.6
	06	3	0.4	2.2
	12	3	0.5	2.0
	18	3	0.5	2.5
21	00	3	0.4	2.3
	01	3	0.4	2.3
	02	3	0.4	2.3
	03	3	0.4	2.4
	04	3	0.4	2.4
	05	3	0.4	2.4
	06	3	0.3	2.3
	07	3	0.5	2.4
	08	3	0.4	2.3
	09	3	0.4	2.4
	10	3	0.5	2.5
	11	3	0.5	2.6
	12	3	0.4	2.4
	13	3	0.4	2.4
	14	1	0.5	2.5
	15	1	0.4	2.5
	16	1	0.5	2.5
	17	1	0.5	2.5
	18	1	0.5	2.5
	19	1	0.4	2.5
	20	1	0.5	2.5
	21	1	0.5	2.5
	22	1	0.4	2.4
	23	1	0.4	2.4
22	00	1	0.5	2.5
	01	1	0.4	2.5
	02	1	0.4	2.5
	03	1	0.4	2.5
	04	1	0.4	2.3
	05	1	0.4	2.4
	06	1	0.4	2.6
	07	1	0.5	2.5
	08	1	0.4	2.5
	09	1	0.4	2.4
	10	1	0.4	2.3
	11	1	0.3	2.2
	12	1	0.3	2.3
	13	1	0.4	2.3
	14	1	0.3	2.2
	15	1	0.3	2.3
	16	1	0.4	2.3
	17	1	0.4	2.3
	18	1	0.4	2.3
	19	1	0.5	2.4
	20	1	0.4	2.4
	21	1	0.5	2.4
	22	1	0.4	2.4
	23	1	0.4	2.3
23	00	1	0.4	2.3
	03	1	0.4	2.5
	06	1	0.4	2.4
	12	1	0.4	2.1
	18	1	0.4	2.3
24	00	1	0.5	2.5
	03	1	0.5	2.3
	06	1	0.5	2.2
	12	1	0.5	2.2
	18	1	0.5	2.2
25	00	1	0.5	2.2
	03	-	-	-
	06	3	0.5	2.5
	12	3	0.5	2.6
	18	3	0.5	2.6
26	00	3	0.4	2.5
	03	-	-	-
	06	3	0.5	2.6
	12	3	0.6	2.7
	18	3	0.6	2.7
27	00	3	0.5	2.7
	03	3	0.5	2.9
	06	3	0.5	2.7
	12	3	0.5	2.6
	18	3	0.5	2.6
28	00	3	0.6	2.7
	03	3	0.5	2.8
	06	3	0.6	2.6
	12	3	0.6	2.7
	18	3	0.7	2.6
29	00	3	0.6	2.6
	03	3	0.5	2.6
	06	3	0.6	2.7
	12	3	0.6	2.7
	18	3	0.6	2.7
30	00	-	-	-
	03	-	-	-
	06	-	-	-
	12	3	0.6	2.8
	18	3	0.6	2.8

International Seismological Centre From the ISC collection scanned by SISMOS

Component: Vertical — Station: HOWRAH.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs.
01	00	0+	-	-
	06	00	-	-
	12	0-	-	-
	18	0-	-	-
02	00	0-	-	-
	06	0-	-	-
	12	0+	-	-
	18	0-	-	-
03	00	0-	-	-
	06	0-	-	-
	12		0.3	3.2
	18	0+	-	-
04	00		0.5	3.3
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
05	00		0.5	3.5
	06	0-	-	-
	12		0.4	3.4
	18	0+	-	-
06	00		0.6	4.1
	06	0+	-	-
	12		0.6	3.7
	18		0.6	3.7
07	00	-	-	-
	06	0+	-	-
	12	0+	-	-
	18		0.6	3.8
08	00		0.5	4.2
	06	0+	-	-
	12	0+	-	-
	18	3	0.6	3.7
			0.7	4.3
09	00		0.5	3.5
			0.8	4.3
	06	0-	-	-
	12	0+	-	-
	18		0.8	3.9
10	00		1.0	4.1
	03	-	-	-
	06		1.1	4.0
	09		-	-
	12		0.8	4.0
	15		1.1	3.9
	18	1	1.2	3.7
	21	1	2.0	4.0
11	00	1	4.9	3.9
	03	1	3.0	4.1
	06	1	5.8	3.7
	09	1	4.2	3.8
	12	1	1.8	4.1
	15	1	3.3	4.0
	18	1	2.6	4.0
	21	1	1.6	3.8
12	00		1.5	4.0
	06		1.8	3.7
	12		0.9	4.2
	18		0.6	3.8
13	00		0.8	3.6
	06	0+	-	-
	12	0+	-	-
	18		0.6	3.7
14	01		1.0	4.4
	02	0+	-	-
	03		0.7	4.3
	04		-	-
	07		0.8	4.1
	08		0.6	4.6
	09		0.5	3.8
	10		0.7	3.7
	11		0.7	4.3
	12		0.6	4.5
	13		0.5	4.0
	14		0.5	4.4
	15		0.6	4.4
	16		0.5	4.1
	17		0.4	4.2
	18		-	-
	19		0.6	4.1
	20		0.5	4.9
	21		0.5	4.6
	22		0.5	3.8
	23		0.7	4.4
15	00		0.6	3.7
	06	0+	-	-
	12	0+	-	-
	18		0.5	3.8
16	00		0.8	4.2
	06	0+	-	-
	12	0+	-	-
	18		0.7	4.3
17	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
18	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	3	0.7	4.9
			0.4	3.5
20	00		0.5	4.0
	06	0+	-	-
	12	0+	-	-
	18		0.6	4.1
21	01		1.2	4.1
	02		-	-
	11		0.7	4.5
	12		0.7	4.9
	13		0.5	4.7
	14		0.7	4.3
	15		0.6	4.9
	16		0.6	4.8
	17		0.6	4.7
	18		-	-
	19		0.6	4.8
	20		0.5	4.6
	21		0.6	4.4
	22		0.9	4.8
	23		1.3	4.2
22	00		-	-
	01		1.0	4.3
	02	0+	-	-
	07		0.8	5.0
	08		0.5	4.0
	09		1.4	5.1
	10		0.5	4.7
	11	0+	-	-
	12		0.7	4.0
	13		0.5	4.5
	14		0.5	4.1
	15		0.7	4.2
	16		0.5	5.0
	17		0.6	4.1
	18		-	-
	19		0.5	5.0
	20		0.7	4.6
	21		0.4	4.1
	22		0.8	5.0
	23		0.8	4.8
23	00		0.7	4.5
	06	0+	-	-
	12	0+	-	-
	18		0.5	3.9
24	00		0.7	4.4
	06	0+	-	-
	12	0+	-	-
	18		0.4	4.2
25	00		0.3	3.6
	06	0+	-	-
	12	0+	-	-
	18		0.6	4.0
26	00		0.5	3.9
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
27	00	3	0.5	3.5
			0.5	4.2
	06	0+	-	-
	12	0+	-	-
	18		0.9	4.1
28	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18		0.5	4.0
29	00	0+	-	-
	05	0+	-	-
	12	0+	-	-
	18		0.6	3.9
30	00	0+	-	-
	05	0+	-	-
	12	0+	-	-
	18		0.7	3.7

Component: E-W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs.
01	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
02	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
03	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
04	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
05	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
06	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
07	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
08	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
09	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
10	00	0+	-	-
	03	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
11	00	1	4.0	4.0
	03	1	5.2	4.1
	06	1	4.2	4.0
	09	1	4.8	4.1
	12	1	4.5	4.0
	15	1	4.7	4.2
	18	1	3.5	4.1
	21	1	3.9	4.1
12	00	1	3.7	4.0
	05	3+	-	-
	12	0+	-	-
	18		1.7	4.2
13	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
14	15	0+	-	-
	16	0+	-	-
	17	0+	-	-
	18	0+	-	-
	19		0.9	5.0
	20		0.5	4.8
	21		0.7	5.0
	22		0.5	5.0
	23		1.0	4.7
15	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
16	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
17	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18		0.4	4.4
18	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
19	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
20	00	0+	-	-
	06	0+	-	-
	12	0+	-	-
	18	0+	-	-
21	01	0+	-	-
	14	0+	-	-
	15	0+	-	-
	16	0+	-	-
	17	0+	-	-
	19		0.6	5.1
	20		0.7	4.3
	21		0.7	3.2
	22		0.5	4.9
	23		0.8	5.0
22	01	0+	-	-
	02	0+	-	-
	03	0+	-	-
	12	0+	-	-
	13	0+	-	-
	14	0+	-	-
	15	0+	-	-
	16	0+	-	-
	17	0+	-	-
	19		0.6	5.2
	20		0.5	4.9
	21		0.7	4.9
	22		0.7	4.7
	23		0.9	5.1

From 23.11.57 to 30.11.57 no regular microseisms recorded.

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs.
Station: HOWRAH (Contd.) Component: N-S.				
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		0.7	3.1
03	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		0.8	3.3
04	00		1.1	3.7
	06	0..	-	-
	12	0..	-	-
	18	3	1.0	4.3
			1.9	5.3
05	00		1.5	4.9
	06	0..	-	-
	12	0..	-	-
	18		1.2	5.3
06	00		1.7	5.0
	06	0..	-	-
	12	0..	-	-
	18	3	1.3	4.1
			2.4	5.7
07	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		1.3	4.5
08	00	0..	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
09	00	-	-	-
	06	0..	-	-
	12	0..	-	-
	18		1.1	4.6
10	00		1.3	4.5
	03	-	-	-
	06	-	-	-
	09	-	-	-
	12		2.1	4.6
	15	1	1.9	4.0
	18	1	3.0	3.9
	21	1	3.7	4.3
11	00	1	4.7	4.1
	03	1	5.8	4.1
	06	1	5.2	4.3
	09	1	4.7	4.0
	12	1	4.6	4.1
	18	1	4.0	4.1
	21	1	3.3	4.1
12	00		2.6	3.9
	06		2.5	4.0
	12		2.6	4.3
	18		1.9	4.4
13	00		2.1	4.5
	05	0..	-	-
	12	0..	-	-
	18	0..	-	-
14	15		0.9	5.0
	16		0.9	4.5
	17		1.0	4.8
	18	0..	-	-
	19		0.9	4.9
	20		0.9	4.8
	21		0.9	5.0
	22		1.0	4.8
	23		0.9	5.0
15	00		1.6	4.6
	06	0..	-	-
	12	0..	-	-
	18		1.4	4.9
16	00	3	1.2	3.9
			1.8	5.0
15 Contd.	06	0..	-	-
	12	0..	-	-
	18		1.7	4.8
17	00	3	1.6	4.0
			1.4	4.9
	06	0..	-	-
	12	0..	-	-
	18		1.4	4.7
18	00		1.6	4.7
	06	0..	-	-
	12	0..	-	-
	18		1.5	5.0
19	00		1.6	4.9
	06	0..	-	-
	12	0..	-	-
	18		2.1	5.4
20	00		1.8	4.9
	06	0..	-	-
	12	0..	-	-
	18		1.5	5.1
21	01		1.2	4.8
	14		1.3	4.9
	15		1.0	4.9
	16		0.9	4.6
	17		1.3	4.7
	19		1.3	5.2
	20		1.1	4.9
	21		0.8	5.2
	22		1.0	4.8
	23		1.0	4.9
22	01		0.6	4.5
	02		1.1	4.9
	03		-	-
	12		-	-
	13		1.2	4.9
	14		-	-
	15		-	-
	16		2.0	5.4
	17		1.1	5.2
	19		1.2	5.1
	20		1.2	5.1
	21		1.1	5.2
	22		1.0	4.9
	23		1.1	5.2
23	00		1.3	4.9
	06	0..	-	-
	12	0..	-	-
	18		1.6	5.0
24	00		0.7	4.8
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
25	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
26	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
27	00		1.1	4.9
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
28	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		1.0	5.2
29	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		0.9	4.8
30	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18		0.8	4.9

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs.
Station: PORT BLAIR. Component: E-W.				
01	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
02	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
03	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
04	00	0..	-	-
	06	0..	-	-
	12	0..	-	-
	18	0..	-	-
05	00	0..	-	-
	06	1	1.3	6.0
	12	1	1.3	5.0
	18	1	1.5	7.5
06	00	1	2.3	7.5
	06	1	2.3	7.5
	12	1	2.3	7.5
	18	1	2.3	7.5
07	00	1	1.4	7.5
	06	1	1.4	7.5
	12	1	1.8	7.5
	18	1	1.8	7.5
08	00	1	1.4	7.5
	06	1	0.8	7.5
	12	1	0.4	7.5
	18	1	0.4	7.5
09	00	1	0.4	7.5
	06	1	0.4	7.0
	12	1	0.4	7.0
	18	1	0.4	7.0
10	00	1	0.4	7.5
	06	...	-	-
	12	1	0.4	7.0
	18	1	1.8	7.5
11	00	1	1.8	7.5
	06	1	3.2	7.5
	12	1	3.2	7.5
	18	1	4.1	7.5
12	00	1	4.2	7.5
	06	1	3.6	7.5
	12	...	-	-
	18	...	-	-
13	00	0.0	-	-
	06	0.0	-	-
	12	0.0	-	-
	18	0.0	-	-
14	00	1	0.4	6.0
	01	1	0.4	6.0
	02	1	0.4	6.0
	03	1	0.4	6.0
	04	1	0.4	6.0
	05	1	0.4	6.0
	06	1	0.4	6.0
	07	1	1.4	7.5
	08	1	1.4	7.5
	09	1	1.4	7.5
	10	1	0.9	7.0
	11	1	0.9	7.0
	12	1	1.4	7.5
	13	1	1.4	7.5
	14	1	1.4	7.5
	15	1	0.8	7.5
	16	00	-	-
	17	1	0.8	7.5
	18	1	0.8	7.0
	19	1	0.4	6.0
	20	1	0.4	6.0
	21	1	0.4	6.0
	22	1	0.4	6.0
	23	1	0.4	6.0
15	00	1	0.4	6.0
	06	1	0.8	6.0
	12	1	0.4	6.0
	15	1	0.4	6.0
16	00	1	0.4	6.0
	06	-	-	-
	12	-	-	-
	18	-	-	-
17	00	1	0.4	7.0
	06	00	-	-
	12	...	-	-
	18	0..	-	-
18	00	1	0.4	6.0
	06	1	0.4	6.0
	12	1	0.4	6.0
	18	1	0.4	6.0
19	00	1	0.4	6.0
	06	1	0.4	6.0
	12	1	0.4	6.0
	18	1	0.8	6.0
20	00	1	0.8	6.0
	06	1	0.8	6.0
	12	1	0.8	6.0
	18	1	0.8	6.0
21	00	0.0	-	-
	01	0.0	-	-
	02	0.0	-	-
	03	0.0	-	-
	04	0.0	-	-
	05	0.0	-	-
	06	0.0	-	-
	07	0.0	-	-
	08	1	0.4	6.0
	09	1	0.4	6.0
	10	1	0.4	6.0
	11	1	0.8	7.0
	12	1	0.8	7.0
	13	1	1.4	7.5
	14	1	1.4	7.5
	15	1	1.4	7.5
	16	1	1.4	7.5
	17	1	1.4	7.5
	18	1	1.8	7.5
	19	1	1.8	7.5
	20	1	1.8	7.5
	21	1	1.8	7.5
	22	1	2.3	7.5
	23	1	2.3	7.5
22	00	1	2.7	7.5
	01	...	-	-
	02	...	-	-
	03	1	2.3	7.5
	04	1	2.3	7.5
	05	1	2.3	7.5
	06	1	2.3	7.5
	07	1	2.3	7.5
	08	1	2.7	7.5
	09	1	3.2	7.5
	10	1	3.2	7.5
	11	1	2.3	7.5
	12	1	2.3	7.5
	13	1	2.3	7.5
	14	1	2.3	7.5
	15	1	2.3	7.5
	16	1	2.3	7.5
	17	...	-	-
	18	...	-	-
	19	...	-	-
	20	...	-	-
	21	...	-	-
	22	...	-	-
	23	...	-	-

23rd to 30th
No record.

****

International Seismological Centre From the ISC collection scanned by SISMOS

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN secs.
			Component: Vertical.	
		1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
05	00	1	0.0	-
	06	1	0.0	-
09	06	1	0.0	-
11	06	1	0.0	-
	12	1	0.0	-
13	00	-	0	-
	06	-	0	-
	12	-	0	-
	18	-	0	-
14	00	-	0	-
	01	-	0	-
	02	-	0	-
	03	-	0	-
	04	-	0	-
	05	-	0	-
	06	-	0	-
	07	-	0	-
	08	-	0	-
	09	-	0	-
	10	-	0	-
	11	1	0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	-	0	-
	16	-	0	-
	17	-	0	-
	18	-	0	-
	19	-	0	-
	20	-	0	-
	21	-	0	-
	22	-	0	-
	23	-	0	-
15	00	-	0	-
	06	1	0.0	-
	12	-	0	-
16	00	-	0	-
	06	-	0	-
18	06	1	0.0	-
19	06	1	0.0	-
20	06	1	0.0	-
21	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	-	0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	-	0	-
	19	-	0	-
	20	-	0	-
	21	-	0	-
	22	-	0	-
	23	-	0	-
22	00	-	0	-
	01	-	0	-
	02	-	0	-
	03	-	0	-
	04	1	0.0	-
	05	-	0	-
	06	-	0	-
	07	1	0.0	-
	08	1	0.0	-
			Component: N-S.	
05	06	1	0.0	-
	12	1	0.9	1.4
	18	1	0.9	1.4
06	00	1	0.8	1.4
	06	1	0.8	1.4
08	06	-	0	-
11	06	1	0.0	-
	12	1	0.0	-
12	00	1	0.0	-
	06	-	0	-
13	12	1	0.8	1.4
	18	1	0.8	1.4
14	00	1	0.9	1.5
	01	1	1.0	1.4
	02	1	1.3	1.4
	03	1	0.8	1.4
	04	2	-	-
	05	1	0.8	1.4
	06	3	0.8	1.4
	07		2.4	1.1
		1	0.0	1.4
	08	1	1.4	1.0
	09	1	1.1	1.4
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.8	1.4
	13	1	0.8	1.4
	14	1	1.0	1.4
	15	1	1.1	1.4
	16	1	0.8	1.4
	17	1	0.8	1.4
	18	1	0.8	1.4
	19	1	1.4	1.4
	20	1	0.9	1.4
	21	1	0.8	1.4
	22	1	0.8	1.4
	23	1	1.0	1.4
15	00	1	0.8	1.4
	06	1	0.0	-
	12	1	0.0	-
16	00	1	0.0	-
	06	1	0.0	-
18	00	1	1.0	1.4
19	06	1	0.8	1.4
20	06	1	0.0	-
21	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	-	-	-
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	-	-	-
	21	-	0	-
	22	-	0	-
	23	-	-	-
23	09	-	0	-
	05	1	0.0	-
25	06	1	0.0	-
26	--	-	-	-
27	--	-	-	-
28	05	1	0.0	-
			Component: E-W	
05	06	1	1.2	1.6
	12	1	2.2	1.4
	18	1	1.9	1.4
06	00	1	1.6	1.6
	06	1	1.8	1.6
08	06	1	0.0	-
11	06	1	1.9	1.5
	12	1	0.8	1.4
12	00	1	1.1	1.4
	06	1	0.8	1.4
13	12	1	1.8	1.4
	18	1	1.5	1.4
14	00	1	1.6	1.6
	01	1	1.6	1.5
	02	1	1.9	1.4
	03	1	1.5	1.4
	04		1.0	1.4
	05	1	0.8	1.4

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN secs.
			Component: N-S.	
21	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.8	1.4
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	1	0.0	-
	21	1	0.0	-
	22	1	0.0	-
	23	1	0.0	-
22	00	1	0.0	-
	02	1	0.0	-
	03	1	0.0	-
	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	-	-	-
	10	1	0.0	-
	11	1	0.0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	-	-	-
	21	-	0	-
	22	-	0	-
	23	-	-	-
23	09	-	0	-
	05	1	0.0	-
25	06	1	0.0	-
26	--	-	-	-
27	--	-	-	-
28	05	1	0.0	-
			Component: E-W	
05	06	1	1.2	1.6
	12	1	2.2	1.4
	18	1	1.9	1.4
06	00	1	1.6	1.6
	06	1	1.8	1.6
08	06	1	0.0	-
11	06	1	1.9	1.5
	12	1	0.8	1.4
12	00	1	1.1	1.4
	06	1	0.8	1.4
13	12	1	1.8	1.4
	18	1	1.5	1.4
14	00	1	1.6	1.6
	01	1	1.6	1.5
	02	1	1.9	1.4
	03	1	1.5	1.4
	04		1.0	1.4
	05	1	0.8	1.4

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in mm.	MEAN PERIOD IN secs.
			Component: E-W	
14	09	1	0.8	1.1
		1	2.9	1.1
		1	0.8	1.4
		1	2.0	1.1
		1	1.5	1.0
		1	1.8	1.4
		1	0.0	-
		1	0.8	1.4
	12	1	1.5	1.4
	13	1	1.7	1.4
	14	1	1.8	1.4
	15	1	1.5	1.4
	16	1	1.2	1.4
	17	1	1.4	1.5
	18	1	1.4	1.4
	19	1	1.4	1.4
	20	1	1.5	1.4
	21	1	1.3	1.4
	22	1	2.0	1.4
	23	1	1.9	1.4
15	00	1	1.9	1.4
	06	1	0.0	-
	12	1	0.0	-
16	00	1	0.0	-
	06	1	0.0	-
18	06	1	1.0	1.4
19	06	1	0.8	1.4
20	06	1	0.0	-
21	04	1	0.0	-
	05	1	0.0	-
	06	1	2.7	1.5
	07	1	1.0	1.4
	08	1	1.5	1.4
	09	1	1.5	1.5
	10	1	1.1	1.4
	11	1	0.8	1.4
	12	1	1.0	1.5
	13	1	1.8	1.4
	14	1	1.5	1.5
	15	1	2.7	1.5
	16	1	2.0	1.4
	17	1	1.7	1.4
	18	1	1.7	1.5
	19	1	1.6	1.4
	20	1	2.3	1.4
	21	1	2.1	1.5
	22	1	1.8	1.5
	23	1	1.9	1.6
22	00	1	1.5	1.5
	01	1	1.3	1.4
	02	1	0.9	1.4
	03	1	1.3	1.4
	04	1	0.9	1.4
	05	1	1.2	1.4
	06	1	1.3	1.5
	07	1	1.6	1.5
	08	1	1.2	1.5
	09	-	-	-
	10	1	0.8	-
	11	1	0	-
	12	1	0.0	-
	13	1	0.0	-
	14	1	0.0	-
	15	1	0.0	-
	16	1	0.0	-
	17	1	0.0	-
	18	1	0.0	-
	19	1	0.0	-
	20	-	0.0	-
	21	1	0.0	-
	22	1	0.0	-
	23	-	-	-
23	00	1	0.0	-
	06	1	0.0	-
25	06	3	0.0	-
28	06	-	-	-

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GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Published under the direction of
Shri S.Basu, M.Sc., F.N.I.
Director General of Observatories

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Instruments and their Constants

STATION	INSTRUMENT	COMPT	PERIOD IN SECS	STATIC MAGNIFICATION	DAMPING RATIO	PAPER SPEED mm/min.
AGRA	Columbia Long Period Seismograph	E	To=15 Tg=100	-	-	15
	"	N	To=15 Tg=85	-	-	15
	"	Z	To=15 Tg=70	-	-	15
BOKARO	Milneshaw	N	12	250	20:1	16
	Milneshaw	E	12	250	20:1	16
	Wood Anderson	E	To=0.8	960	h=0.8	60
	Wood Anderson	N	To=0.8	1000	h=0.8	60
BOMBAY	Milneshaw	N	12	350	30:1	16
	Milneshaw	E	12	350	15:1	8
	Sprengnether	E	To=Tg=7	-	-	30
CALCUTTA	Milneshaw	E	12	250	20:1	8
	Wood Anderson	N	2	870	Critical	30
	Omori Ewing	N	16	32	-	25.4
	Omori Ewing	E	21	30	-	25.4
DEHRA DUN	Wood Anderson	N	0.8	950	Critical	60
	Wood Anderson	E	0.8	850	Critical	60
	Milneshaw	N	12	250	20:1	8
	Milneshaw	E	12	250	20:1	8
HYDERABAD	Milneshaw	E	12	254	20:1	8
	Milneshaw	N	12	249	20:1	8
KODAIKANAL	Milneshaw	E	10	250	20:1	8
MADRAS	Sprengnether	E	To=Tg=7.2	-	-	30
POONA	Sprengnether	Z	To=Tg=1.6	-	Critical	30
	Wood Anderson	E	4	1000	20:1	16
	Milneshaw	N	12	300	20:1	8
PORT BLAIR	Wood Anderson	E	0.8	1000	h=0.8	30
	Wood Anderson	N	2.0	1000	20:1	30
	Milneshaw	E	12.0	250	20:1	8
SHILLONG	Wood Anderson	N	0.8	1000	h=0.8	30
	Wood Anderson	E	0.8	1000	h=0.8	30
	Milneshaw	N	12	350	20:1	8
	Benioff	Z	To=1.0 Tg=0.18	-	-	60
	Sprengnether	E	To=Tg=6.6	-		
		from	To=Tg=6.5 29.1.58		Critical	30
	Wenner Acceleregraph	-	-	-	-	-
TOCKLAI	Wood Anderson	E	0.8	1000	h=0.8	60
VIZIANAGRAM	Wood Anderson	E	0.8	1000	h=0.8	30
	Wood Anderson		2.0	1000	20:1	30

STATION	LATITUDE	LONGITUDE	HEIGHT a.s.l. (Metres)	LITHOLOGIC FOUNDATION
AGRA	27°10'N	78°02'E	169	Indo-gangetic Alluvium
BOKARO	23°50'N	85°48'E	-	Rock
BOMBAY	18°54'N	72°49'E	6	Deccan Trap
CALCUTTA	22°32'N	88°22'E	7	Alluvium
DEHRA DUN	30°19'N	78°02'E	682	Gravel
HYDERABAD	17°26'N	78°27'E	536	Granite
KODAIKANAL	10°14'N	77°28'E	2346	Rock
MADRAS	13°00'N	80°11'E	15	-
POONA	18°32'N	73°51'E	560	Deccan Trap
PORT BLAIR	11°40'N	92°43'E	-	-
SHILLONG	25°34'N	91°53'E	1600	Quartzite Sand Stone(Shillong Quartzite)
TOCKLAI	26°45'N	94°46'E	-	Alluvium
VIZIANAGRAM	18°07'N	83°27'E	-	

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
01	TOCKLAI	E	eP	01	06	23		Slight, distant
	CHATRA	Z	iP	01	06	48		Slight
		E, Z	i		08	32		
	DEHRA DUN	N, E	e	01	09	42		
01	POONA	Z	iP	01	11	40		Slight
		E	e		14	40		
		N, E	e		20	16		
		E	e		21	00		
01	POONA	Z	iP	01	14	40		
01	SHILLONG	Z	iP	01	16	17		Slight
01	SHILLONG	Z	iP	01	18	20		Slight
	CHATRA	Z	i	01	18	37		Slight
01	BOMBAY	N, E	e	01	20	19		Very slight
01	CHATRA	Z	i	01	28	57		Feeble, distant
01	SHILLONG	Z	iP	01	45	14		Slight
01	SHILLONG	Z	iP	05	19	56		Slight
01	SHILLONG	Z	iP	08	55	15		Slight
01	CHATRA	Z	iP	10	09	43		Feeble
			i		10	10		
01	SHILLONG	Z	iP	14	33	04		Slight
	CHATRA	Z	i	14	33	41		Feeble
01	SHILLONG	Z	iP	19	17	16		Slight
01	SHILLONG	Z	e	21	37	52		Slight
02	SHILLONG	Z	e	09	17	36		Slight
02	SHILLONG	Z	iP	09	18	23		Slight
02	SHILLONG	Z	iP	09	23	12		Slight
02	SHILLONG	Z	iP	11	46	59		Slight
	TOCKLAI	E	eP	11	47	06		Slight
02	SHILLONG	Z	iP	13	00	38		Slight
02	SHILLONG	Z	iP	15	27	28		Slight
03	SHILLONG	Z	iP	00	09	51		Slight
03	SHILLONG	Z	iP	01	56	21		Slight
03	CHATRA	Z	iP	02	41	09		Feeble
			i		41	35		
03	SHILLONG	Z	iP	15	20	48		Slight
03	SHILLONG	Z	iP	15	25	39		Slight
03	SHILLONG	Z	iP	21	53	57		Slight
03	SHILLONG	Z	iP	21	58	00		Slight
	POONA	Z	iP	21	59	24		
			i		59	36		
03	SHILLONG	Z	iP	23	42	30		Slight
04	SHILLONG	Z	iP	00	34	46		Slight
	POONA	Z	iP	00	36	25		Feeble
			i		36	32		
			i		36	55		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
04	Epc: 47°N, 100°E. Outer Mongolia							
	H = 03h 37m 30s (Shillong)							
	Epc: 45½°N, 99½°E. Outer Mongolia							
	H = 03h 37m 45s (U.S.C.G.S.).							
	Magnitude 7.9 (Fes), 7¾-8 (Berk), 8.1 (Shillong).							
	TOCKLAI	E	eP	03	42	12		
	SHILLONG	Z, N, E	iP	03	42	23	2390	First movement East.
		N, E	PP		42	52		
			PPP		43	05		
			iS		46	18		
			i		46	28		
			M		49	20		
	CHATRA	E, Z	iP	03	42	28		
		E	i		46	46		
	DEHRA DUN	N, E	eP	03	42	47		
			e		43	18		
			e		43	36		
			i		47	02		
			e		47	39		
			e		47	54		
			e		48	12		
			e		48	42		
			e		50	42		
	BOKARO	N, E	iP	03	43	03	2780	First movement North and East
	CALCUTTA	E	iP	03	43	06	2670	First movement East.
			iS		47	21		
	VIZIANAGRAM	N, E	eP	03	44	01	3530	
		N	iS		49	11		
	HYDERABAD	N	iP	03	44	19	3810	First movement East. Time approximate due to overlapping of record.
			iS		49	46		
			PS		51	02		
			Lr		54	34		
			M		57	00		Period 15 secs A 196
	POONA	Z	iP	03	44	33	3810	
		N, E	PP		45	39		
			PPP		46	05		
		N	PcP		47	03		
		N, E	TS		50	00		
		N	PcS		50	09		
			SS		51	56		
			SSS		52	18		
			Lr		53	45		
			ScS		54	46		
			M		57	15		
	BOMBAY	N, E	eP	03	44	37	4080	
			PP		45	58		
			PPP		46	22		
		E	PcP		47	00		
			i		49	32		
		N, E	iS		50	21		
		E	PcS		50	46		
			SS		52	26		
			SSS		53	19		
		N	M	04	05	--		
		E	M		10	--		
	PORT BLAIR	E	iP	03	44	37	4220	
			PPP		46	27		
			iS		50	30		
			PcS		50	40		
			i		52	12		
			SS		53	05		
			Lq		53	18		
			Lr		55	07		
			M		58	49		
	MADRAS	E	iP	03	44	54	4370	First movement East.
			PP		46	00		
			ScP		50	30		
			eS		50	56		
			SS		53	48		
			SSS		54	32		
			Lr		56	09		

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DATE	STATION	COMPT	PHASE	G.M.T. h.	m.	s.	Δ km	REMARKS
December 1957								
04 Contd.	KODAIKANAL	E	iP	03	45	26	4410	
			PP		46	57		
			PcP		47	23		
			PPP		47	46		
			PcS		51	05		
			eS		51	30		
			SS		54	30		
			Lq		54	45		
			SSS		55	26		
			Lr		56	50		
			M	04	00	00		Per ≈ 10 secs μ more than 820 Tip of trace went beyond this record.
	COLOMBO	E	P	03	45	38		
			L		56	--		
			M	04	03	--		Amp. ≈ 53.0 mm
04	CHATRA	Z	i	05	05	36		Slight, distant
04	SHILLONG	Z	iP	07	57	53		Slight Compression
04	Epc: 45½°N, 99°E. Outer Mongolia aftershock H = 09h 09m 10s (U.S.C.G.S).							
	SHILLONG	Z	iP	09	13	58		Slight Compression
	DEHRA DUN	N,E	e	09	14	29		
			i(S)		18	34		
	HYDERABAD	N	M	09	29	31		Per ≈ 11 secs μ ≈ 4
04	SHILLONG	Z	iP	10	47	21		Slight Compression
04	Epc: 45½°N, 100½°E. Outer Mongolia aftershock. H = 11h 19m 30s (U.S.C.G.S).							
	SHILLONG	Z	iP	11	24	08		Slight Compression
	CHATRA	Z	iP	11	24	15		
	DEHRA DUN	N,E	eP	11	24	36	2710	
			iS		28	54		
	CALCUTTA	E	e	11	29	28		
	BOMBAY	N,E	e	11	35	19		
	HYDERABAD	N	M	11	38	47		Per ≈ 12 secs μ ≈ 4
04	SHILLONG	Z	iP	13	22	34		Slight, local
04	Epc: 45°N, 101½°E. Outer Mongolia. H = 13h 20m 08s (U.S.C.G.S).							
	TOCKLAI	E	iP	13	24	36		Slight, First movement East
	SHILLONG	Z,N,E	iP	13	24	51	2370	Slight Compression
			PP		25	15		
			PPP		25	26		
			iS		28	44		
			i		29	08		
			SSS		29	38		
			M		31	38		
	CHATRA	Z	iP	13	24	59	2570	Slight
		E	iS		29	07		
	DEHRA DUN	N,E	eP	13	25	24	2690	Slight
		N	iS		29	41		
			SSS		31	13		
			M		33	46		
	CALCUTTA	E	iP	13	25	36	2890	Slight, First movement East
			eS		30	05		
			SS		31	26		
04 Contd.	BOKARO	N,E	iP	13	25	42	2770	Slight. First movement Sou and West.
			eS		30	03		
	HYDERABAD	N	iP	13	26	49	3950	First movement North.
			PP		28	13		
			iS		32	25		
			PcS		33	20		
			SSS		35	06		
			Lr		36	33		
			M		38	47		Per ≈ 12 secs μ ≈ 11
	POONA	Z	iP	13	27	04	4010	Moderate
		N,E	P		28	31		
			eS		32	43		
		N	SS		34	59		
			SSS		35	42		
			Lr		36	58		
			M		39	18		
	BOMBAY	N,E	eP	13	27	08	3890	
			PP		28	33		
			eS		32	40		
		N	e		35	00		
		E	e		36	13		
		N	M		42	06		Per ≈ 9 secs μ ≈ 3
		E	M		42	--		
	MADRAS	E	iP	13	27	20	4240	Slight. First movement East
			PP		28	50		
			ScP		32	58		
			eS		33	14		
			SS		35	55		
			Lq		36	12		
			SSS		36	33		
			ScS		36	58		
			Lr		38	00		
			M		41	21		
04	SHILLONG	Z	eP	15	52	58		Slight, distant Compression
04	Epc: 45°N, 99½°E. Outer Mongolia aftershock. H = 22h 16m 59s (U.S.C.G.S).							
	TOCKLAI	E	eP	22	21	24		Slight
	SHILLONG	Z	iP	22	21	37		Slight Compression
	DEHRA DUN	N,E	eP	22	22	06	2530	Feeble
			iS		26	11		
	CALCUTTA	E	eP	22	22	28		
	POONA	Z	eP	22	22	59		Feeble
			i		23	47		
			i		24	51		
			i		25	07		
04	SHILLONG	Z	eP	22	29	48		Slight, distant
04	SHILLONG	Z	iP	23	46	35	2370	Slight
		N,E	iS		50	28		Compression
05	SHILLONG	Z	eP	02	23	36		Slight
05	SHILLONG	Z	eP	02	50	55		Slight
05	SHILLONG	Z	eP	07	48	16		Slight
05	SHILLONG	Z	eP	08	22	18		Slight
05	SHILLONG	Z	iPg	10	11	30	80	Slight
			iSg		11	40		
05	SHILLONG	Z	eP	12	21	44		Slight, distant
05	SHILLONG	Z	eP	12	26	17		Slight, distant
05	CHATRA	Z	i	14	14	51		Feeble, distant
	SHILLONG	Z	eP	14	15	10		Slight, distant.

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
05	SHILLONG	Z	ePg	14 57 47	100	Slight
			Sg	57 59		
05	SHILLONG	Z	iP	16 06 31		Slight, distant Compression
05	SHILLONG	Z	eP	16 16 12		Slight, distant
05	Epe: 45°N, 100°E. Outer Mongolia, aftershock. H= 18h 09m 32s (U.S.C.G.S)					
	SHILLONG	Z	iP	18 14 15	2460	Slight
		E	iS	18 15		
	DEHRA DUN	N, E	eP	18 14 41	2640	Feeble
			iS	18 54		
	CALCUTTA	E	e	18 18 17		Slight
	HYDERABAD	E	M	18 27 51		Per≃18 secs μ ≃ 4
		N	M	28 03		Per≃18 secs μ ≃ 5
05	SHILLONG	Z	eP	18 58 39		Slight, distant
05	SHILLONG	Z	eP	19 22 03		Slight, distant
05	SHILLONG	Z	iPg	19 45 44	80	Slight
			iSg	45 53		
05	SHILLONG	Z	eP	20 07 40		Slight, distant
05	SHILLONG	Z	iP	21 51 48		Slight, distant Compression
05	SHILLONG	Z	eP	22 01 53		Slight, distant
05	CHATRA	Z	iPg	22 48 06	130	Feeble
			iSg	48 23		
05	SHILLONG	Z	iP	23 04 17	200	Slight
			iSg	04 44		
06	SHILLONG	Z	eP	00 54 59		Slight, distant
06	SHILLONG	Z	iP	02 27 57		Slight, distant Compression
06	SHILLONG	Z	iP	02 40 37		Slight, distant Compression
06	Epe: 45°N, 150½°E. Kurile Islands. h about 60 km. H= 03h 49m 33s (U.S.C.G.S)					
	SHILLONG	Z	iP	03 58 30		Slight Compression
	CHATRA	Z	i	03 58 49		
	POONA	Z	iP	04 00 29		
06	SHILLONG	Z	eP	05 19 34	210	Slight
			Sg	20 03		
06	SHILLONG	Z	eP	06 39 32		Slight, distant
06	CHATRA	Z	iP	07 06 56	200	Slight
		E, Z	iS	07 20		
06	SHILLONG	Z	eP	07 07 54		Slight
06	SHILLONG	Z	eP	07 29 12		Slight, distant
06	Epe: 44½°N, 150½°E. Kurile Islands. H= 08h 36m 21s (U.S.C.G.S)					
	SHILLONG	Z	iP	08 45 23		Slight Compression
	CHATRA	Z	iP	08 45 40		
	POONA	Z	iP	08 47 20		
06	SHILLONG	Z	iPg	12 14 35	130	Slight
			iSg	14 50		Compression
06 Contd.	CHATRA	Z	iP	12 15 08	430	Slight
			iS	15 54		
	TOCKLAI	E	e	12 15 55		Slight
06	SHILLONG	Z	iP	15 31 40		Slight Rarefaction
06	SHILLONG	Z	iP	15 40 34	230	Slight Rarefaction
			iSg	41 02		
06	SHILLONG	Z	iP	17 47 13		Slight, distant Compression
06	CHATRA	Z	iPg	18 31 12	120	Feeble
			iSg	31 29		
06	SHILLONG	Z	iP	18 59 21		Slight, distant Rarefaction
06	SHILLONG	Z	eP	21 47 12		Feeble, distant
06	SHILLONG	Z	eP	23 00 13		Slight, distant
	CHATRA	Z	i	23 00 51		Slight, distant
07	SHILLONG	Z	iP	03 24 12		Slight Rarefaction
07	TOCKLAI	E	e	03 29 51		Slight, distant
07	AGRA	N, E	iP	03 32 22		
07	SHILLONG	Z	iP	05 31 32		Slight Compression
07	CHATRA	Z	iP	05 59 54	70	Slight
		E, Z	iS	06 00 04		
07	SHILLONG	Z	iP	06 07 25		Slight Compression
	CHATRA	Z	i	06 07 49		Feeble
	DEHRA DUN	N, E	e	06 16 19		Feeble. Phases
			i	20 17		not clear.
			i	23 23		
07	SHILLONG	Z	eP	07 43 47	290	Slight
			Pe	43 49		
			Pg	43 55		
			PPP	43 59		
			Lr	44 14		
			S	44 19		
			Sg	44 27		
07	SHILLONG	Z	iP	13 17 59		Slight Rarefaction
07	Epe: 43½°N, 100°E. Outer Mongolia aftershock. H= 14h 11m 15s (U.S.C.G.S).					
	TOCKLAI	E	eP	14 15 18		Slight
	SHILLONG	Z	eP	14 15 33	2140	Slight
		E	iS	19 05		Rarefaction
			Lq	19 43		
			M	21 42		
	CHATRA	Z	iP	14 15 40	3090	Slight
		E	eP			
			eS	19 23		
	AGRA	N, E	iP	14 16 42		First movement North and East.
	CALCUTTA	E	e	14 20 35		Slight
	HYDERABAD	E	M	14 28 57		Per≃15 secs μ ≃ 4
		N	M	29 02		Per≃10 secs μ ≃ 3
	POONA	N	e	14 29 45		Feeble
			i	33 07		
07	SHILLONG	Z	iP	17 51 27		Slight Compression

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
07	SHILLONG	Z	iP	18	30	08		Slight Rarefaction
07	CHATRA	Z	iP	19	34	51	260	Slight
		E	iS		35	21		
07	TOCKLAI	E	e	23	22	06		Slight, distant
08	Epc: 45°N, 100½°E. Outer Mongolia: aftershock. H: 06h 13m 02s (U.S.C.G.S).							
	CHATRA	Z	iP	06	17	47	2540	Slight
		E	iS		21	53		
	DEHRA DUN	N,E	e	06	18	18		Tremor
	HYDERABAD	N	M	06	31	11		Per=15 secs μ = 4
		E	M		31	23		Per=15 secs μ = 2
08	SHILLONG	Z	iP	07	17	42		Slight Compression
08	SHILLONG	Z	iP	13	24	41		Slight Rarefaction
08	SHILLONG	Z	iP	13	39	41		Slight Rarefaction
08	SHILLONG	Z	eP	14	49	48		Slight
08	Epc: 45°N, 99°E. Outer Mongolia: aftershock H: 15h 29m 15s (U.S.C.G.S).							
	SHILLONG	Z	eP	15	33	52		Slight Rarefaction
	CHATRA	Z	iP	15	33	55		Slight
	DEHRA DUN	N,E	e	15	34	17		Tremor
	AGRA	N,E	iP	15	34	41		
	HYDERABAD	E	M	15	49	20		Per=9 secs μ = 2
		N	M		49	27		Per=14 secs μ = 5
08	Epc: Outer Mongolia: aftershock. H: 16h 26m 33s (U.S.C.G.S).							
	SHILLONG	Z	iP	16	31	20		Slight Rarefaction
	CHATRA	Z	iP	16	31	27	26100	Slight
			iS		35	37		
	DEHRA DUN	N,E	e(P)	16	32	02	2850?	Feeble.
			i(S)		36	28		Phases not
			i		40	28		clear.
	AGRA	N,E	iP	16	32	23		
	POONA	E	e	16	46	12		Feeble
			i		49	47		
	HYDERABAD	E	M	16	46	18		Per=12 secs μ = 3
		N	M		47	12		Per=11 secs μ = 5
08	SHILLONG	Z	e	20	32	27		Tremor
08	Epc: 44½°N, 100°E. Outer Mongolia: aftershock H: 21h 28m 45s G.M.T.							
	SHILLONG	Z	iP	21	33	23		Slight Compression
	CHATRA	Z	i	21	33	28		Slight
	DEHRA DUN	N,E	eP	21	33	52		

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
09	SHILLONG	Z	eP	00	43	16	390	Slight
			P*		43	26		
			PP		43	28		
			Pg		43	32		
			PPP		43	34		
			S		43	58		
			S*		44	02		
			SG		44	05		
			Sg		44	08		
	CHATRA	Z	eP	00	43	43		Slight
			i		45	03		
09	SHILLONG	Z	eP	02	32	07	190	Slight
			P*		32	08		
			PP		32	18		
			S		32	29		
			Sg		32	31		
09	SHILLONG	Z	iPg	05	15	23	70	Slight
			P		15	25		
			Sg		15	31		
09	SHILLONG	Z	iP	06	02	02		Slight Compression
09	SHILLONG	Z	e	14	42	57		Tremor
09	SHILLONG	Z	eP	16	55	33		Tremor, near.
09	SHILLONG	Z	iP	17	02	29		Tremor
09	DEHRA DUN	N,E	e	21	18	01		Feeble, near.
			i		19	20		Phases not clear
	AGRA	N,E	eP	21	18	32		
09	CHATRA	Z	iP	21	19	11		Slight
		E,Z	i		20	42		
09	TOCKLAI	E	eP	21	32	39		Slight, near.
09	CHATRA	Z	i	22	20	07		Slight, distant
09	SHILLONG	Z	eP	22	32	47	440	Slight
			P*		32	56		Rarefaction
			Pg		33	05		
			S		33	34		
			S*/SS		33	48		
			Sg		33	55		
09	SHILLONG	Z	iP	23	20	10		Slight Rarefaction
10	SHILLONG	Z	iP	02	38	47		Slight Compression
10	SHILLONG	Z	e	04	47	57		Tremor
10	SHILLONG	Z	Pg	08	54	41	130	Slight
			PPP		54	54		
			Sg		54	56		
10	CHATRA	Z	iPg	11	07	05	100	Feeble
			iSg		07	19		
10	Epc: 6°S, 154½°E. Solomon Islands H: 14h 35m 57s (U.S.C.G.S) Magnitude: 6¾(Pas), 6½-6¾(Berk).							
	PORT BLAIR	E	iP	14	46	40	5900	
			pP		47	18		
			PP		48	33		
			iS		54	10		
			PS		54	25		
			sS		55	18		
			ScS		55	40		
			Lq	15	04	32		
			M		08	02		
	TOCKLAI	E	iP	14	46	57		First movement West.

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
10 Contd.	SHILLONG	Z, N, E	iP	14 47 05	7900	Compression
		N, E	i	47 49		hg 250 Kms C.a.
			pP	48 05		
			sP	48 30		
			iS	56 05		
			sS	57 50		
	CALCUTTA	E	iP	14 47 21	8000	First movement
			iS	56 42		West
			SS	15 01 12		
			SSS	04 30		
			Lq	06 05		
	CHATRA	N, Z	iP	14 47 31		
		E	i	57 23		
	BOKARO	N, E	eP	14 47 37	8450	
		N	PcP	47 52		
			pP	48 50		
			PP	50 20		
			iS	57 05		
			PPS	57 55		
			sS	58 55		
	COLOMBO	E	P	14 47 48	8560	
			S	57 36		
			L	15 40 --		
			M	44 21		Amp = 0.9 mm
	MADRAS	E	iP	14 47 51	8590	First movement
			PP	50 50		West
			PPP	52 45		
			iS	57 41		
			PS	58 25		
			PPS	58 46		
	HYDERABAD	E	iP	14 48 04	8750	First movement
			iS	58 02		West
		N	ScS	58 30		
			PS	58 54		
			PPS	59 18		
			SS	15 03 12		
		E	Lr	12 30		
			M	19 18		Per = 21 secs
						μ = 10
	KODAIKANAL	E	iP	14 48 12	8780	First movement
			PP	51 10		West
			iS	58 11		
			M	15 21 08		Per = 18 secs
						μ = 7
	AGRA	E	iP?	14 48 18	8980	First movement
		N	eP?			West.
		E	iPP	51 22		
			iPPP	53 12		
		N, E	iS	58 26		
			iScS	58 43		
			iPPS	59 34		
		N	i?	15 01 52		
			iSS	03 20		
		E	i?	04 00		
		N	iSSS	07 40		
		N, E	iLq	10 06		
			iLr	13 06		
			M	20 06		Per = 20 secs
						Amp = 14.5 mm
	DEHRA DUN	N, E	eP	14 48 25	9020	
		N	PP	51 42		
			iS	58 35		
			PS	59 07		
			PPS	59 37		
			SSS	15 06 47		
			Lq	09 36		
			M	18 29		
	POONA	Z	iP	14 48 30	9240	
		N, E	PP	51 30		
		E	PPP	53 43		
		N, E	iS	58 50		
		N	ScS	58 58		
		E	PS	59 59		
		N	PPS	15 00 04		
			SS	04 19		
			PKKP1	06 39		
			PKKS1	10 09		
			Lr	14 39		
			M	20 59		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
10 Contd.	BOMBAY	N, E	eP	14 48 37	9220	Slight
		E	e	49 11		
			PP	51 50		
			PPP	53 45		
		N, E	eS	58 56		
			ScS	59 09		
		E	PS	59 44		
			PPS	15 00 14		
			SS	04 40		
10	SHILLONG	Z	iP	15 05 38		Slight Compression
10	CHATRA	Z	i	15 07 04		Feeble, distant
10	SHILLONG	Z	e	15 34 48		Slight
			iP	35 06		Rarefaction
10	Epc: 5½°S, 155°E. Solomon Islands aftershock Felt: Rabaul. Mag. 15h 53m 02s (U.S.C.G.S).					
	SHILLONG	Z	iP	16 04 06		Slight Compression
	CHATRA	Z	iP	16 04 32		Feeble
	POONA	Z	eP	16 05 27		Feeble
			i	08 36		
10	SHILLONG	Z	iP	16 52 56		Slight Compression
10	SHILLONG	Z	iP	17 47 17		Slight Compression
10	SHILLONG	Z	e	18 18 20		Slight
			iP	18 49		Compression
10	SHILLONG	Z	iP	19 30 25		Slight Rarefaction
10	SHILLONG	Z	iP	19 44 31		Slight Compression
10	SHILLONG	Z	eP	21 19 02		Slight, local Other phases not clear.
10	SHILLONG	Z	iP	23 25 25		Slight, local
11	SHILLONG	Z	eP	02 58 39		Slight, distant
11	SHILLONG	Z	eP	09 15 10		Slight
11	CHATRA	Z	iP	13 19 55	230	Slight
		E, Z	iS	20 22		
	SHILLONG	Z	eP	13 20 06	250	Slight
			Sg	20 41		
11	SHILLONG	Z	eP	17 56 27		Slight, local
11	Epc: 30½°N, 142°E. South of Honshu, Japan. Mag. 18h 11m 07s (U.S.C.G.S).					
	SHILLONG	Z	eP	18 19 07		Slight
	DEHRA DUN	N, E	eP	18 20 40		Feeble
	POONA	Z	eP	18 21 28		Feeble
	BOMBAY	E	eP	18 21 38	7090	Slight
			eS	30 13		
			e	31 31		
			e	34 29		
11	SHILLONG	Z	eP	18 27 56		Slight
11	SHILLONG	Z	eP	19 30 53		Slight, distant
11	CHATRA	Z	eP	21 56 44	370	Feeble
			iS	57 35		
	SHILLONG	Z	e	21 57 35		Slight
			i	59 51		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
11	Epc: 44½°N, 101°E. Outer Mongolia. - H = 21h 55m 10s (U.S.C.G.S)					
	CHATRA	Z	iP	21 59 57		Slight
		E	e	22 07 08		
	DEHRA DUN	N,E	eP	22 00 24	2570	Feeble
			iS	04 32		
	POONA	Z	iP	22 02 03		
	BOMBAY	E	e	22 03 33		Slight
			e	10 26		
			M	14 --		
		N	M	15 --		
12	SHILLONG	Z	ePg	00 21 27	110	Slight
			eSg	21 39		
12	SHILLONG	Z	eP	09 59 34		Slight
12	TOCKLAI	E	iP	18 50 38		Slight, distant First movement West.
	SHILLONG	Z	iP	18 50 47		Slight Compression
	CHATRA	Z	iP	18 51 07		Slight, distant
		E	eP			
	MADRAS	E	eP	18 51 22		Slight
			e	51 41		
			e	54 55		
			e	55 08		
	POONA	Z	iP	18 51 54		Feeble
			i	52 07		
	BOMBAY	E	e	18 52 18		Very slight
			e	58 04		
			e	19 03 48		
12	SHILLONG	Z	eP	19 16 01		Feeble
12	COLOMBO	E	L	19 36 20		
			M	40 35		Amp. = 0.1 mm
12	Epc: 24½°N, 93°E. Manipur-Burma border. H = 20h 05m 10s (Shillong) Felt: Silchar, Lumding, Mazbat, Haflong, Karimganj, Diphu and Shillong in Assam.					
	SHILLONG	Z,N,E	iPg	20 05 25	90	Slight. First movement North and West., Compression.
		E,E	iSg	05 36		
	TOCKLAI	E	iP	20 05 38	240	Slight
			P*	05 40		
			Pg	05 43		
			PP	05 45		
			PPP	05 51		
			i	06 02		
			Sg	06 12		
	CALCUTTA	N,E	eP	20 06 16	470	Slight
			iS	07 06		
		N	Sg	07 26		
	CHATRA	E,Z	iP	20 06 24	630?	Slight
		E	i(Sg)	08 05		
	BOKAKO	N,E	eP	20 06 36	490	Slight
		E	P*	06 48		
			Lq	07 18		
			Sg	07 51		
	AGRA	N,E	eP	20 08 03	1360	
			iS	10 31		
	DEHRA DUN	N,E	e	20 08 25		Feeble. Phases not clear
			i	10 49		
	POONA	Z	iP	20 09 21		Slight. Phases not clear
			i	13 21		
			i	14 21		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
12 Contd.	BOMBAY	N,E	e	20 13 13		Very slight
		E	e	15 26		
		N,E	e	16 01		
	MADRAS	E	i	20 18 55		Feeble. First movement East
			e	19 11		
			e	19 18		
13	Epc: 34°N, 48°E. Iran. - H. 01h 45m 00s (Shillong) Epc. 34½°N, 48°E. Iran. Major damage Farsinaj destroyed. 1062 killed, many injured - H = 01h 44m 59s (U.S.C.G.S). Mag. 7¼ (Pas).					
	DEHRA DUN	N,E	eP	01 50 35	2910	
		N	PPP	51 40		
			iS	55 05		
			Lq	56 06		
			SSS	56 34		
			Lr	57 08		
			M	59 28		Per. = 12 secs μ = 94
	BOMBAY	N,E	eP	01 50 44	3100	
		E	i	51 10		
			PP	51 34		
			PPP	51 45		
			PcP	53 44		
			i	54 46		
			e	55 04		
			iS	55 27		
			Lq	56 34		
			SS	56 53		
			i	57 27		
			Lr	58 09		
			M	02 02 27		Per. = 19 secs μ = 86
		N	M	05 28		Per. = 13 secs μ = 17
	AGRA	N,E	iP	01 50 45	2990	First movement South and West
			iPP	51 39		
			iS	55 21		
			SS	56 55		
			Lr	57 33		
			M	02 00 17		Per. = 16 secs Amp. = 120.0 mm
	POONA	Z	iP	01 50 55	3180	
		N	PPP	51 57		
		N,E	iS	55 43		
		N	SS	57 09		
			SSS	57 36		
			ScS	58 02		
			Lr	58 21		
	CHATRA	E,Z	eP	01 51 22		
		N	i	57 23		
	HYDERABAD	N,E	iP	01 51 27	3540	First movement North and West
		N	PP	52 28		
		E,N	iS	56 38		
		N	PcS	57 49		
			SS	58 28		
			SSS	58 46		
			Lr	59 25		
			M	02 01 38		Per. = 20 secs μ = 98
		E	M	02 05		Per. = 15 secs μ = 64
	MADRAS	E	PPP	01 53 48	3900	First phase lost while changing record.
			PcP	54 09		
			iS	57 46		
			ScP	57 58		
			SS	02 00 02		
			Lq	00 20		
			SSS	00 29		
			Lr	02 07		
			M	05 08		
	SHILLONG	Z,N,E	iP	01 51 32	4920	Compression
		N,E	i	52 25		
			PP	53 18		
			PPP	54 00		
			iS	58 07		
			PS	58 16		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
13 Contd.	SHILLONG Contd.	N,E	PPS	01 58 24		
			SS	02 01 32		
			SSS	02 32		
			M	09 02		Per.≃20 secs μ ≃124
	TOCKLAI	E	eP	01 51 33		
	BOKARO	N,E	i	01 51 34		First movement South and East
		E	i	51 58		
		N	e	53 19		
		N,E	iS	57 32		
		N	e	02 00 06		
			i	02 17		
			i	07 43		
	VIZIANAGRAM	N	iS	01 57 45		
	KODAIKANAL	E	eP	01 52 09	4050	
			PP	53 36		
			iS	57 52		
			Lq	02 00 18		
			SS	00 48		
			Lr	02 01		
			M	05 21		Per.≃20 secs μ ≃48
	CALCUTTA	E	eP	01 52 16	4110	
			PP	53 08		
			iS	58 02		
			M	02 04 38		
			Mn	09 18		Per.≃14 secs μ ≃140
	COLOMBO	E	P	01 52 40	4210	
			S	58 32		
			L	02 07 52		
			M	10 05		Amp.≃4.5 mm
13	SHILLONG	Z	iP	06 49 48		Slight, distant Compression
13	Epc: Probably Pamir Mountains Region. - H ≃ 09h 07m 55s (SHILLONG).					
	DEHRA DUN	N,E	eP	09 10 02	980	Feeble
			i	11 33		
			iS	11 43		
	AGRA	N,E	iP	09 10 34	1090	First movement North and West
			iS	12 26		
	CHATRA	Z	iP	09 11 45	1880	Slight
		E	iS	14 53		
	SHILLONG	Z,N,E	iP	09 12 30	2200	Slight Compression
		N,E	iS	16 08		
	POONA	Z	iP	09 12 48		Feeble
13	CHATRA	Z	iP	10 50 45	220	Feeble
			iS	51 11		
13	SHILLONG	Z	eP	10 52 09		Slight, near
13	SHILLONG	Z	iP	11 33 45		Slight, distant Compression
13	SHILLONG	Z	iP	16 17 50		Slight, near
13	SHILLONG	Z	e	17 00 03		Tremor, distant
13	SHILLONG	Z	iP	17 08 46		Feeble, local
13	SHILLONG	Z	iP	18 59 27		Slight, distant Rarefaction
13	Epc: 6½°S, 155½°E. Solomon Islands aftershock. - H ≃ 20h 03m 58s (U.S.C.G.S)					
	SHILLONG	Z,E	iP	20 15 09		Slight Compression
	CHAERA	Z	i	20 15 33		Feeble
	BOMBAY	N,E	e	20 27 03		Slight

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
13	Epc: 52½°N, 170°W. Fox Islands, Aleutian Islands. - H ≃ 20h 26m 22s (U.S.C.G.S)					
	SHILLONG	Z,N,E	iP	20 38 06	9000	Slight
			iS	47 48		Rarefaction
	DEHRA DUN	N,E	eP	20 38 30	9000	Feeble
			eS	48 39		
	BOKARO	N,E	e(P)	20 38 33	9150?	Slight
			iS	48 49		
	CALCUTTA	E	eP	20 38 37	9020?	Slight
			iS	48 47		
	AGRA	N	eP	20 38 39	9220	
			i	48 58		
	HYDERABAD	N	iP	20 39 16	9430	First movement South.
			iS	49 45		
			Lr	21 06 22		
				13 17		Per.≃17 secs μ ≃ 6
		E	M	15 08		Per.≃21 secs μ ≃ 6
	POONA	Z	iP	20 39 27	10500	Slight
		N	SKS	49 57		
			iS	50 38		
			PS	52 06		
			SS	57 13		
			SSS	21 00 51		
	BOMBAY	N,E	eP	20 39 28		
		E	M	21 23 25		Per.≃19 secs μ ≃ 3
14	DEHRA DUN	N,E	e	01 36 59		Tremor
14	SHILLONG	Z	iP	16 15 30		Slight, distant Compression
14	SHILLONG	Z	iP	17 06 30		Slight, distant Compression
14	SHILLONG	Z	iP	21 34 57		Slight, distant Rarefaction
14	SHILLONG	Z	eP	22 03 32		Slight, distant
14	SHILLONG	Z	eP	22 35 47		Slight, distant
15	SHILLONG	Z	eP	01 47 30		Slight, local
15	CHATRA	E	i	01 57 29		Slight, near
15	CHATRA	E	i	06 26 04		Slight, near
	SHILLONG	Z	iP	06 26 32		Slight, near Compression
	DEHRA DUN	N,E	e	06 28 41		Tremor
15	SHILLONG	Z	iP	16 59 59		Slight, distant Compression
15	SHILLONG	Z	e	17 40 38		Tremor
15	SHILLONG	Z	iP	18 48 34		Slight, near Rarefaction
16	SHILLONG	Z	eP	00 08 11		Slight, near
16	TOCKLAI	E	ePg	06 38 43	120	Slight. Felt
			eSg	38 57		at Dibrugarh.
16	CHATRA	E	i	06 42 03		Slight
16	TOCKLAI	E	eP	07 05 06		Slight, near
	SHILLONG	Z	eP	07 05 42		Slight, near
16	SHILLONG	Z	eP	07 19 44		Slight, near.

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
16	SHILLONG	Z	eP	07 49 32		Slight, near
16	TOCKLAI	E	eP	13 11 36		Slight, near
			i	11 38		
			e	11 53		
	SHILLONG	Z,E	eP	13 12 09		Slight. Felt at Doom Dooma, Dibrugarh and Digboi (Assam).
	CHATRA	E	e	13 13 33		Slight
			i	14 56		
	CALCUTTA	E,N	e	13 14 30		Slight,
			i	15 19		near.
	BOKARO	N,E	e	13 15 05		Slight, near
			i	16 16		
	DEHRA DUN	N,E	e	13 17 27		Feeble.Phases
			i	19 26		not clear.
	AGRA	N,E	e	13 17 31		
	BOMBAY	E	e	13 20 20		Slight, near
			e	22 18		
		N	e	22 46		
		E	M	23 --		
	POONA	Z	iP	13 22 16		Feeble
		N	i	22 39		
			i	23 06		
16	TOCKLAI	E	eP	13 28 05		Slight,distant
			e	28 20		
16	COLOMBO	E	L	18 36 01		
			M	39 36		Amp.=0.2 mm
16	DEHRA DUN	N,E	e	23 11 05		Feeble.Phases
			e	15 42		not clear.
	AGRA	N,E	eP	23 11 15		
	SHILLONG	Z	eP	23 12 56		Slight
17	TOCKLAI	E	e	03 39 43		Slight, near.
	SHILLONG	Z	eP	03 40 41	510	Slight
			Pg	40 52		
			S	41 35		
17	SHILLONG	Z	eP	03 49 41		Slight,distant
17	SHILLONG	Z	eP	04 35 02		Slight
17	Epc: 43½°N, 162°E. Near East Coast of Kamchatka - H = 05h 10m 11s (U.S.C.G.S). Mag: 6¾ (Pas).					
	TOCKLAI	E	e	05 20 50		
	SHILLONG	Z,N,E	eP	05 20 04	6480	
		N,E	pP	20 37		
			sP	20 56		
			iS	31 27		
			i	32 23		
			i	33 08		
			M	55 31		Per.=18 secs μ =135
	CALCUTTA	N	eP	05 20 21	7000	
			PcP	20 54		
			eS	28 51		
	CHATRA	E,Z	iP	05 20 23		
	BOKARO	N,E	iP	05 20 41	7030	First movement
		E	PcP	21 12		South and West
			iS	29 14		
	DEHRA DUN	N,E	eP	05 20 47	6870	
		N	iS	29 10		
			PPS	29 44		
			SSS	36 33		
			Lq	37 39		
			Lr	39 56		
			M	45 04		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
17 Contd.	AGRA	E	iP	05 20 55	7140	First movement
			PcP	21 11		West
			iS	29 33		
			PPS	30 09		
			SKS	30 45		
			Lr	40 41		
			M	47 01		Per.=12 secs Amp.=31.0 mm
	HYDERABAD	N	iP	05 21 37	8050	First movement
			PcP	21 54		South
			PP	24 15		
			iS	31 01		
			SS	35 30		
		E	Lr	44 21		
		N	Lr	44 24		
			M	50 11		Per.=18 secs μ =38
		E	M	50 15		Per.=15 secs μ =25
	POONA	Z	iP	05 21 50	8240	First movement
		N	PP	24 35		South and West
		N,E	PPP	25 39		
			iS	31 23		
		E	SKS1	31 31		
			ScS	31 42		
		N	PPS	32 04		
			SS	36 01		
			SSS	39 09		
			Lr	44 39		
			SKKKS	48 03		
			M	51 10		
			Mn	58 ..		Per.=18 secs μ =43
	MADRAS	E	eP	05 21 53	8380	
			PP	24 53		
			PPP	26 43		
			eS	31 33		
			SKS	31 44		
			ScS	31 50		
			PS	32 14		
			PPS	32 36		
			SS	36 38		
			SSS	39 46		
			Lq	42 30		
			Lr	45 46		
	BOMBAY	N,E	eP	05 21 54	8300	
		E	PP	24 23		
			PPP	25 54		
		N,E	eS	31 30		
			SKS1	31 40		
			PS	31 54		
		E	PPS	32 24		
			SS	36 11		
			SSS	39 01		
			M	59 24		Per.=15 secs μ =28
		N	M	59 26		Per.=16 secs μ =22
	KODAIKANAL	E	eP	05 22 09	8740	
			eS	32 06		
	COLOMBO	E	L	06 00 20		
			M	05 25		Amp.=1.6 mm
17	POONA	Z	eP	07 09 00		Slight.Probably felt at Koppa and Hariharpura (Mysore State).
17	Epc: 12°S, 167°E. Santa Cruz Island. - H =13h 50m 05s (U.S.C.G.S). Mag: 7¾(Pas).					
	TOCKLAI	E	iP	14 02 19		First movement West
	SHILLONG	N,E	iP	14 02 25	9550	Compression
			pP	02 58		-h, 160 KmCa
			sS	14 04		
	CALCUTTA	E	iP	14 02 41	9150	First movement
			PP	05 45		West.
			iS	12 57		
			SS	18 37		

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
17	CHATRA	Z	iP	14 02 48	9240	
Contd.		E	iS	13 08		
	BOKARO	N, E	iP	14 02 55	9400	First movement
		N	pP	03 42		North and West
			PP	06 01		
			PPP	08 02		
			SKS_1	13 10		
			iS	13 22		
			PS	14 18		
			PPS	14 38		
			sS	14 44		
			Lq	15 39		
			Lr	29 50		
	VIZIANAGRAM	N, E	iP	14 02 58	9560	First movement
			iS	13 32		North and West
	COLOMBO	E	P	14 03 01		
			e(SKS)	13 21		
			L	26 46		
			M	33 36		Amp. 5.2 mm
	MADRAS	E	iP	14 03 05	10150	First movement
			i	06 36		West.
			PP	06 59		
			PPP	09 00		
			SKS	13 18		
			SKKS	13 40		
			eS	13 59		
			PS	15 22		
			PPS	16 03		
			i	19 36		
			SS	20 12		
			SSS	23 52		
			Lq	29 23		
	KODAIKANAL	E	iP	14 03 16		First movement
			e	06 22		West
			i(SKS)	13 37		
			e	14 34		
			e	15 00		
			e	19 13		
			e	20 22		
			e	22 55		
			e	26 52		
			Lr	30 40		
			M	37 22		Per. 40 secs A 250
	HYDERABAD	E	iP	14 03 19		First movement
			e	06 24		West
			e	08 39		
			i(SKS)	13 34		
			e	14 11		
			e	15 32		
		N	e	26 01		
		E	e	26 03		
			Lr	30 09		
		N	Lr	30 13		
			M	37 11		Per. 18 secs A 29
		E	M	37 30		Per. 20 secs A 45
	AGRA	E	iP	14 03 31		First movement
			e	03 39		West
			i?	04 57		
			e	07 09		
			i?	07 53		
			i(SKS)	13 47		
			e	14 39		
			e	15 15		
			i?	16 39		
			e	19 09		
			e	22 17		
			M	24 05		Per. 56 secs Amp. 80.0 mm
	DEHRA DUN	N, E	eP	14 03 35		
		N	e	08 10		
			iSKS	13 56		
			e	14 45		
			e	15 23		
			e	19 27		
			e	22 48		
			e	26 15		
			e	30 22		
			M	37 53		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
17	POONA	Z	iP	14 03 37	10780	First movement
Contd.		N	PP	07 03		up. North
			SKS	13 58		and West.
			iS	14 57		
			PS	16 33		
			SS	21 05		
			SSP	22 03		
			Lq	31 27		
			Lr	36 18		
			M	45 13		
			Mn	57		Per. 17 secs A 30
	BOMBAY	N	ePg	14 03 44	10770	
		E	iPg			
		E	e	04 07		
			e	05 19		
		N, E	pP	06 38		
			PP	07 35		
			PPP	09 43		
			i	10 36		
			i	11 39		
		N	e	11 57		
		E	i	12 17		
		N, E	SKS_1	14 10		
		N	$SKKS_1$	14 35		
		E	$SKKS_1$	14 39		
		N, E	iS	15 00		
			i	15 53		
		E	PS	16 36		
		N, E	PPS	17 25		
		E	SS	21 26		
			SSP	21 55		
		N	SSP	22 08		
		N, E	SSS	25 37		
		E	M	40 58		Per. 26 secs A 86
		N	M	59 17		Per. 18 secs A 24
17	SHILLONG	Z	iP	15 33 15		Slight, local Compression
	CHATRA	Z	iP	15 33 44		Slight
			i	34 42		
17	SHILLONG	Z	iP	20 20 22		Slight, distant Karefaction
17	SHILLONG	Z	eP	21 12 34		Slight distant
18	DEHRA DUN	N, E	e	09 54 27		Tremor
	SHILLONG	Z	eP	09 55 30		Slight, distant
18	CHATRA	Z	iP	16 49 38	760	Feeble
			iS	50 57		
19	SHILLONG	Z	eP	12 16 07		Slight near
			Sg	16 52		
19	SHILLONG	Z	iP	11 16 40		Slight local
19	SHILLONG	Z	iP	14 24 18		Slight, distant Compression
19	POONA	Z	eP	16 01 12		
19	SHILLONG	Z	eP	16 03 49		Slight distant
19	SHILLONG	Z	eP	20 00 24		Slight distant
20	SHILLONG	Z	iP	00 05 40		Slight, local.
20	SHILLONG	Z	eP	05 16 33		Slight, near
20	SHILLONG	Z	iP	10 27 37		Slight, distant Compression
20	POONA	Z	eP	11 38 30		
	SHILLONG	Z	eP	11 38 49		Slight, distant
20	SHILLONG	Z	eP	21 49 45		Slight, Very distant

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DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
21	CHATRA	Z	iP	03 03 05	90	Slight
		E	iS	03 17		
	SHILLONG	Z	eP	03 03 51		Slight
21	SHILLONG	Z	eP	08 44 20	520	Slight
			iS	45 15		
	CHATRA	Z	i	08 44 27		Feeble, distant
21	SHILLONG	Z	eP	19 05 15		Slight, , distant
21	SHILLONG	Z	eP	19 44 24		Slight, distant
21	SHILLONG	Z	eP	20 31 27		Slight, distant
21	SHILLONG	Z	eP	22 08 20		Slight, distant
22	SHILLONG	Z	eP	12 05 52		Slight, distant
22	SHILLONG	Z	iP	14 33 18		Slight, distant Rarefaction
22	SHILLONG	Z	eP	17 05 59		Slight, distant
22	SHILLONG	Z	eP	21 18 30	200	Slight
			Sg	18 57		
22	CHATRA	Z	eP	22 44 35	160	Feeble
			iS	44 55		
22	SHILLONG	Z	iP	23 33 48		Slight, distant Compression
23	SHILLONG	Z	eP	00 44 41		Slight, distant
23	SHILLONG	Z	eP	03 44 11		Slight, distant
23	DEHRA DUN	N, E	e	11 57 42		Feeble. Phases not clear.
23	PORT BLAIR	N	iPg	13 19 52	100	Slight
			iSg	20 03		
23	CHATRA	Z	iP	15 31 30	220	Feeble
			iS	31 56		
23	SHILLONG	Z	iP	18 38 05		Slight, near Rarefaction
			e	38 21		
23	SHILLONG	Z	iP	19 35 24		Slight, distant Compression
	CHATRA	Z	i	19 35 50		Feeble, distant
23	SHILLONG	Z	iP	21 11 41		Slight, distant Compression
23	SHILLONG	Z	iP	21 38 01		Slight, distant Rarefaction
23	SHILLONG	Z	eP	23 32 52		Slight, near
			i	33 05		
23	SHILLONG	Z	iP	23 47 57		Slight, distant Compression
23	SHILLONG	Z	eP	23 51 54		
23	SHILLONG	Z	eP	23 52 27		Slight, near
			e	52 37		
24	SHILLONG	Z	eP	01 10 15		Slight, distant
24	SHILLONG	Z	iP	18 06 13		Slight, distant Rarefaction
24	SHILLONG	Z	eP	20 48 09		Slight, distant
25	SHILLONG	Z	eP	06 05 57		Slight, distant
25	SHILLONG	Z	ePg	06 41 52	90	Slight
			Sg	42 02		
25	SHILLONG	Z	eP	06 55 44		Slight, local
25	DEHRA DUN	N, E	e	11 52 27		Tremor
25	CHATRA	Z	ePKP	16 45 18		Slight
		E	i	48 49		
	SHILLONG	Z	ePKP	16 45 25		Slight

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
December 1957						
26	CHATRA	Z	iPg	03 29 25	100	Feeble
			iSg	29 38		
26	SHILLONG	Z	iP	05 56 01	330	Slight, rarefaction
			iS	56 37		
	CHATRA	Z	iP	05 56 56		Slight
		E, Z	i	58 31		
26	SHILLONG	Z	eP	12 26 38		Slight, distant
26	SHILLONG	Z	eP	17 23 43	330	Slight
			iS	24 19		
26	SHILLONG	Z	eP	19 39 07		Slight, local.
26	SHILLONG	Z	eP	23 24 57		Slight, distant
27	SHILLONG	Z	eP	01 24 02		Slight
27	SHILLONG	Z	iP	08 35 36		Slight, distant Rarefaction
27	CHATRA	Z	i	15 10 55		Feeble, near
27	SHILLONG	Z	iP	22 23 46		Slight, distant Rarefaction
28	SHILLONG	Z	iPg	05 06 48	40	Slight
			Sg	06 53		
28	CHATRA	Z	i	05 40 45		Feeble, distant
28	Epc: 18°S, 64½°W. Bolivia. H = 14h 36m 40s (U.S.C.G.S)					
	POONA	Z	ePKP	14 56 15		
	DEHRA DUN	N, E	eKP	14 56 19		
	MADRAS	E	eKP	14 56 26		Strong micro-seisms present
	CHATRA	Z	ePKP	14 56 33		Slight
	SHILLONG	Z	ePKP	14 56 39		Slight
	HYDERABAD	E	M	16 02 33		Per. 18 secs μ = 5
		N	M	02 42		Per. 15 secs μ = 5
28	SHILLONG	Z	iP	16 33 16		Slight Compression
	CHATRA	Z	eP	16 34 16		Feeble
			i	35 19		
28	SHILLONG	Z	eP	18 17 35		Slight, local
28	SHILLONG	Z	iPg	19 32 16	130	Slight Compression
			Sg	32 31		
	CHATRA	Z	iP	19 32 57	430	Feeble
			iS	33 44		
29	SHILLONG	Z	eP	05 12 51	410	Slight
			iS	13 35		
	CHATRA	Z	iP	05 12 51	460	Slight
		E, Z	iS	13 40		
29	SHILLONG	Z	eP	07 49 01		Slight, distant
29	SHILLONG	Z	iP	12 23 45	410	Slight
			iS	24 29		
	CHATRA	Z	iP	12 24 44		Feeble
			i	26 16		
29	POONA	Z	iP	15 31 49		Feeble
			i	32 03		
29	DEHRA DUN	N, E	e	17 40 59		Tremor
29	CHATRA	Z	iP	20 44 14	240	Feeble
			iS	44 42		

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DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
29	SHILLONG	Z	eP	21	35	43	140	Slight
			Sg		36	00		
30	SHILLONG	Z	iP	04	35	58		Distant Compression
30	SHILLONG	Z	iP	07	39	58		Slight
30	SHILLONG	Z	iP	10	04	38		Slight Compression
	TOCKLAI	E	eP	10	04	53		Slight
	CHATRA	Z	iP	10	05	39		Feeble
			i		07	03		
30	SHILLONG	Z	eP	11	24	53		Slight
	TOCKLAI	E	eP	11	24	58		Slight
	CHATRA	Z	iP	11	25	18		Slight
		E	i		27	53		
30	SHILLONG	Z	iP	12	57	56		Slight Compression
	CHATRA	Z	i	12	58	09		Feeble, near
30	Epc: Near North Coast of Lwzon, Philippine Islands. - H = 13h 58m 26s (U.S.C.G.S).							
	SHILLONG	Z,N,E	iP	14	04	13	3280	Slight
		N,E	iS		09	07		Rarefaction
	CHATRA	Z	iP	14	04	54		Slight
	CALCUTTA	E	e(P)	14	04	57		Slight
	DEHRA DUN	N,E	e?	14	05	18		Slight.Phases
			i(S)		12	24		not clear
	POONA	Z	iP	14	06	37		Feeble
			i		06	47		
	BOMBAY	E	e	14	07	03		Very slight
		N,E	e		13	31		
		E	e		16	59		
30	SHILLONG	Z	iP	18	50	05		Slight,distant Compression
30	SHILLONG	Z	iP	22	55	28	270	Slight
			eSg		55	59		Rarefaction
	CHATRA	Z	eP	22	56	10	580	Feeble
			iS		57	11		
30	SHILLONG	Z	eP	23	10	51		Slight
31	SHILLONG	Z	iP	06	57	45		Slight,distant Rarefaction
31	SHILLONG	Z	e	10	34	09		Tremor
31	SHILLONG	Z	eP	11	33	50		Slight,distant
31	SHILLONG	Z	i	11	34	40		Slight
31	SHILLONG	Z	i	11	35	00		Slight
31	SHILLONG	Z	i	14	21	20		Compression
31	Epc: 45°S, 165½°E. Off Coast of South Island, New Zealand. - H =14h 28m 15s (U.S.C.G.S).							
	PORT BLAIR	E	iP	14	41	00	9340	Slight
			iS		51	25		
	COLOMBO	E	P	14	41	22	9670	
			S		52	00		
			L	15	12	20		
			M		19	35		Amp. =0.3 mm

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
December 1957								
31 Contd.	SHILLONG	Z	iP	14	41	51		Slight Compression
	MADRAS	E	e(?)	14	42	06		Slight
			PP		45	47		
			PPP		47	42		
			SKS		52	19		
			SKKS		52	30		
			eS		52	44		
			PS		54	02		
			PPS		54	31		
	CALCUTTA	E	e	14	44	52		Slight
			i		52	29		
	BOMBAY	E	e	14	45	42		Slight
			e		49	18		
		N	e		53	06		
		E	e		53	46		
		N	e		54	22		
	DEHRA DUN	N,E	e	14	47	48		Feeble
			i		56	40		
	HYDERABAD	N,E	e	14	52	44		
		E	M	15	19	04		Per. =17 secs
								A = 5
		N	M		19	31		Per. =20 secs
								A = 7
31	SHILLONG	Z	iP	14	58	29		Slight,distant Compression
31	SHILLONG	Z	eP	17	38	54		Slight,distant
	CHATRA	Z	i	17	39	04		Feeble, near.
31	SHILLONG	Z	e	20	57	00		Tremor
31	Epc: 45°S, 96½°E. South Indian Ocean. - H 21h 16m 03s (U.S.C.G.S).							
	COLOMBO	E	L	21	39	05		
			M		42	05		Amp. =0.3 mm
	CALCUTTA	E	i	21	36	10		Tremor
	SHILLONG	Z	iP	21	27	17		Slight,distant Compression
	DEHRA DUN	N,E	e	21	30	--		Feeble
31	CHATRA	Z	iP	22	36	17		Slight
		E,Z	e		36	40		
	SHILLONG	Z	eP	22	36	50		Slight,distant.

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Earthquake Reports

(Non Instrumental Reports).

Following is the list of earthquakes that were reported by Voluntary Observers from various stations during the month of December 1957.

PLACE AT WHICH FELT	DATE IN G.M.T.	TIME IN G.M.T. h. m.	NO. OF SHOCKS	DURATION OF SHOCKS IN secs.	INTENSITY IN R.F. SCALE	REMARKS
KUMBHIRGRAM (Silchar) .	12	20 05	4	1-2	VI	At intervals 2 5 secs.
HAFLONG	12	20 05	2	30	V	
TEZPUR (P.B.O.)	12	20 03	1	30	V	
GAUHATI	12	20 05	1	10	VI	
UPPER SHILLONG	12	20 05	1	20	IV	
MOHANBARI	16	06 38	2	5 6	IV	
DIBRUGARH	16	06 40	1	5	V	
MOHANBARI	16	13 15	2	5	V	
DIBRUGARH	16	13 12	1	3	V	
UPPER SHILLONG	17	15 30	1	3	IV	

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MICROSEISMIC TABULATION

Station: SHILLONG Component: E.W. Month: December 1957 Compt.: E.W. (Contd.) Station: BOMBAY

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
01	00	-	-	-
	06	3	0.2	5.2
	12	2	0.3	5.1
	18	2	0.3	4.8
02	00	2	0.3	4.8
	06	2	0.2	4.5
	12	-	-	-
	18	2	0.2	4.3
03	00	2	0.3	4.7
	06	2	0.3	4.6
	12	2	0.3	4.6
	18	2	0.5	5.3
04	00	2	0.5	4.8
	06	-	-	-
	12	-	-	-
	18	2	0.3	5.2
05	00	-	-	-
	06	-	-	-
	12	2	0.2	5.2
	18	3	-	-
06	00	2	0.3	5.0
	06	3	0.3	4.7
	12	3	0.3	5.4
	18	2	0.3	5.0
07	00	3	0.3	5.4
	06	3	0.3	4.5
	12	2	0.5	4.8
	18	2	0.5	5.3
08	00	1	0.5	5.4
	06	1	0.6	6.3
	12	1	0.7	6.7
	18	1	0.6	6.5
09	00	1	0.5	5.7
	06	2	0.3	5.5
	12	2	0.5	5.9
	18	2	0.5	5.2
10	00	2	0.5	5.3
	06	2	0.5	5.5
	12	2	0.5	5.3
	18	2	0.5	5.2
11	00	2	0.5	5.5
	06	2	0.3	5.4
	12	3	0.3	4.7
	18	3	0.3	5.2
12	00	3	0.3	4.9
	06	3	0.3	5.2
	12	3	0.3	5.0
	18	3	0.3	4.7
13	00	3	0.3	4.7
	06	3	0.5	5.3
	12	3	0.3	4.7
	18	3	0.3	5.2
14	00	3	0.3	4.9
	06	1	0.5	5.7
	12	1	0.5	5.8
	18	1	0.5	5.9
15	00	1	0.3	5.9
	06	3	0.3	5.3
	12	3	0.3	4.8
	18	3	0.3	4.7
16	00	3	0.3	4.9
	06	3	0.3	5.0
	12	3	0.2	5.3
	18	3	0.1	4.7
17	00	3	0.3	5.0
	06	-	-	-
	12	3	0.1	4.6
	18	0..	-	-
18	00	3	0.3	4.8
	06	3	0.2	5.0
	12	3	0.2	4.5
	18	2	0.3	5.1
19	00	2	0.3	5.0
	06	2	0.3	5.0
	12	2	0.3	5.0
	18	2	0.3	5.1
20	00	2	0.3	5.0
	06	2	0.5	4.8
	12	3		
	18	2	0.3	5.2
21	00	2	0.3	5.0
	06	2	0.3	5.2
	12	2	0.3	4.6
	18	0..	-	-
22	00	0..	-	-
	06	0..	-	-
	12	3	0.3	4.7
	18	3	0.3	4.3
23	00	3	0.3	4.3
	06	-	-	-
	12	3	0.3	4.5
	18	3	0.3	4.3
24	00	3	0.3	4.2
	06	3	0.3	4.4
	12	3	0.3	4.2
	18	3	0.3	4.7
25	00	2	0.5	4.7
	06	2	0.5	4.6
	12	2	0.5	4.2
	18	2	0.3	4.8
26	00	2	0.3	4.6
	06	-	-	-
	12	2	0.3	4.5
	18	3	0.3	4.9
27	00	2	0.5	4.8
	06	2	0.3	5.0
	12	1	0.5	5.0
	18	1	0.3	5.0
28	00	1	0.3	5.1
	06	1	0.3	5.0
	12	2	0.3	4.8
	18	0..	-	-
29	00	3	0.2	5.0
	06	3	0.3	4.7
	12	3	0.3	5.0
	18	0		
30	00	0..	-	-
	06	2	0.3	5.0
	12	-	-	-
	18	2	0.3	5.0
31	00	3	-	-
	06	1	0.3	5.0
	12	-	-	-
	18	1	0.5	5.1

Station: BOMBAY Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
01	00	2	0.5	3.2
	06	2	0.4	3.5
	12	2	0.3	3.5
	18	2	0.4	3.6
02	00	2	0.3	3.4
	06	2	0.4	3.4
	12	2	0.3	3.3
	18	2	0.3	3.9
03	00	2	0.3	3.7
	06	2	0.3	4.1
	12	2	0.3	4.5
	18	2	0.3	4.1
04	00	2	0.3	4.0
	06	-	-	-
	12	3	0.4	5.0
	18	3	0.3	5.0
05	00	3	0.6	5.8
	06	3	0.3	5.6
	12	3	0.3	5.6
	18	3	0.3	5.3
06	00	-	-	-
	06	3	0.3	5.7
			0.1	2.8
	12	3	0.3	5.4
			0.2	3.0
	18	3	0.3	5.1
			0.3	3.2
07	00	3	0.3	4.6
			0.1	1.5
	06	3	0.3	5.6
			0.1	1.8
	12	3	0.3	5.3
			0.1	1.9
	18	3	0.3	5.2
			0.1	1.9
08	00	-		
	06	3	0.6	5.4
			0.5	2.4
	12	3	0.7	6.2
			0.4	2.7
	18	3	0.6	5.9
			0.4	2.2
09	00	3	0.5	5.8
			0.5	2.3
	06	3	0.5	5.2
			0.5	2.7
	12	3	0.5	5.6
			0.5	3.1
	18	3	0.5	5.1
			0.6	3.3
10	00	3	0.5	5.1
			0.5	3.3
	06	3	0.5	5.8
			0.4	3.1
	12	-	-	-
	18	3	0.5	5.8
			0.3	2.9
11	00	3	0.5	5.0
			0.4	3.1
	06	3	0.4	5.9
			0.5	3.4
	12	2	0.5	3.5
	18	2	0.5	4.3
12	00	2	0.4	4.2
	06	3	0.4	4.0
			0.3	2.4
	12	3	0.4	4.4
			0.1	2.1
	18	3	0.5	3.8
			0.1	2.2
13	00	3	0.4	4.3
			0.2	2.2
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	3	0.4	4.5
			0.3	2.2
	07	3	0.4	4.5
			0.2	2.0
	08	3	0.4	4.4
			0.3	2.2

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
13 Contd.	09	3	0.4	4.9
			0.3	2.3
	10	3	0.4	4.3
			0.4	2.3
	11	3	0.3	4.8
			0.3	2.3
	12	3	0.3	4.1
			0.3	2.2
	13	3	0.4	4.4
			0.3	2.0
	14	3	0.4	5.0
			0.3	2.0
	15	3	0.4	3.9
			0.3	2.1
	16	3	0.4	4.6
			0.4	2.3
	17	3	0.4	4.4
			0.4	2.1
	18	3	0.3	3.8
			0.4	2.1
	19	3	0.4	4.0
			0.5	2.1
	20	3	0.5	4.8
			0.4	2.1
	21	-	-	-
	22	3	0.4	4.5
			0.3	2.1
	23	3	0.3	4.2
			0.3	2.1
14	00	3	0.5	4.5
			0.3	2.4
	06	3	0.4	5.3
			0.5	2.5
	12	3	0.5	4.8
			0.5	2.5
	18	3	0.5	4.1
			0.5	2.6
15	00	3	0.5	4.1
			0.3	2.5
	01	3	0.5	4.6
			0.4	2.3
	02	-	-	-
	03	3	0.5	4.3
			0.4	2.4
	04	3	0.5	4.1
			0.3	2.4
	05	3	0.3	4.0
			0.4	2.6
	06	3	0.4	4.0
			0.4	4.3
	07	-	-	-
	08	3	0.5	4.3
			0.5	2.3
	09	3	0.3	3.8
			0.4	2.5
	10	3	0.4	4.0
			0.4	2.5
	11	3	0.5	4.3
			0.3	2.5
	12	3	0.3	4.0
			0.4	2.4
	13	3	0.3	4.3
			0.3	2.5
	14	3	0.3	4.1
			0.5	2.6
	15	3	0.4	3.9
			0.3	2.7
	16	3	0.4	4.5
			0.3	2.8
	17	3	0.3	3.8
			0.3	2.5
	18	3	0.3	4.0
			0.1	2.3
	19	3	0.3	4.1
			0.2	2.5
	20	3	0.3	4.3
			0.3	2.4
	21	3	0.3	4.6
			0.3	2.5
	22	3	0.3	4.0
			0.3	2.7
	23	3	0.3	4.6
			0.3	3.0

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Component: E.W. (Contd) Station: BOMBAY.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
16	00	3	0.3	4.6
			0.3	2.7
	01	3	0.3	4.0
			0.2	2.7
	02	3	0.3	5.1
			0.4	3.0
	03	3	0.3	5.0
			0.3	3.0
	04	3	0.3	4.2
			0.3	2.8
	05	3	0.3	4.7
			0.4	2.9
	06	3	0.3	4.6
			0.3	2.0
	07	3	0.3	4.9
			0.4	2.8
	08	3	0.3	4.9
			0.3	2.9
	09	3	0.3	4.9
			0.3	2.3
	10	3	0.3	4.4
			0.3	2.7
	11	3	0.3	4.7
			0.3	2.2
	12	3	0.4	5.0
			0.4	2.2
	13	3	0.4	4.9
			0.5	2.3
	14	3	0.3	4.5
			0.5	2.4
	15	3	0.5	4.2
			0.4	2.6
	16	3	0.4	4.7
			0.5	2.4
	17	3	0.5	2.4
			0.4	2.6
	18	3	0.3	5.4
			0.4	2.5
	19	3	0.3	4.9
			0.3	2.5
	20	3	0.3	4.9
			0.3	2.8
	21	3	0.3	5.0
			0.3	2.7
	22	3	0.3	4.9
			0.3	2.5
	23	3	0.3	5.0
			0.3	2.5
17	00	3	0.3	4.9
			0.4	2.6
	01	3	0.3	4.0
			0.3	2.5
	02	2	0.4	2.8
	03	3	0.5	2.6
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	1	0.9	2.9
	13	1	0.9	3.0
	14	1	0.9	3.1
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	1	0.7	2.9
	19	1	0.7	3.1
	20	1	0.7	3.0
	21	1	0.6	2.9
	22	1	0.7	3.0
	23	1	0.6	2.9
18	00	1	0.7	2.8
	01	-	-	-
	02	1	0.7	2.9
	03	1	0.5	3.0
	04	1	0.5	2.9
	05	1	0.5	2.7
	06	1	0.5	3.1
	07	1	0.5	3.0
	08	1	0.5	2.9
	09	1	0.6	3.1
	10	1	0.5	3.0
	11	1	0.5	3.2

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
18 Contd.	12	1	0.5	3.2
	13	1	0.5	3.0
	14	1	0.5	3.1
	15	1	0.5	2.9
	16	1	0.5	3.0
	17	1	0.5	3.1
	18	1	0.5	3.0
	19	1	0.5	3.0
	20	1	0.5	2.9
	21	1	0.5	3.1
	22	1	0.5	3.0
	23	1	0.5	3.0
19	00	1	0.5	2.8
	01	"	"	"
	02	"	-	-
	03	1	0.8	2.9
	04	1	0.7	2.8
	05	1	0.7	3.0
	06	1	0.6	2.9
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	-	-	-
	12	"	"	"
	13	-	"	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
20	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	1	0.9	3.5
	10	1	0.9	3.6
	11	1	0.7	3.6
	12	1	0.9	3.7
	13	1	0.7	3.7
	14	1	0.8	3.6
	15	1	0.7	3.8
	16	1	0.7	3.7
	17	1	0.7	3.6
	18	1	0.8	3.9
	19	1	0.9	3.7
	20	1	0.9	3.5
	21	1	0.8	3.7
	22	1	0.7	3.9
	23	1	0.9	3.4
21	00	1	0.9	3.5
	01	-	-	-
	02	-	-	-
	03	1	0.8	3.5
	04	1	0.7	3.6
	05	1	0.9	3.8
	06	-	-	-
	07	-	-	-
	08	1	0.6	3.9
	09	1	0.8	3.4
	10	1	0.7	3.6
	11	1	0.8	3.6
	12	1	0.7	3.3
	13	1	0.9	3.4
	14	1	0.7	3.6
	15	1	0.9	3.5
	16	1	0.7	3.5
	17	1	0.9	3.4
	18	1	0.9	3.4
	19	1	0.7	3.4
	20	1	0.7	3.4
	21	1	0.7	3.5
	22	1	0.7	3.1
	23	1	0.7	3.6

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
22	00	1	0.8	3.6
	01	1	0.8	3.4
	02	1	0.8	3.5
	03	1	0.9	3.6
	04	1	0.9	3.5
	05	1	0.9	3.4
	06	1	0.8	3.4
	07	1	0.9	3.5
	08	1	0.7	3.5
	09	1	0.8	3.5
	10	1	0.8	3.6
	11	1	0.7	3.3
	12	1	0.7	3.5
	13	1	0.7	3.6
	14	1	0.9	3.6
	15	1	0.7	3.5
	16	1	0.8	3.5
	17	1	0.7	3.5
	18	1	0.7	3.6
	19	1	0.7	3.6
	20	1	0.8	3.5
	21	1	0.8	3.6
	22	1	0.9	3.4
	23	1	0.8	3.5
23	00	1	0.9	3.6
	01	-	-	-
	02	1	0.9	3.7
	03	1	0.8	3.7
	04	1	0.7	3.6
	05	1	0.8	3.6
	06	1	0.9	3.7
	07	1	0.9	3.7
	08	1	0.9	3.6
	09	1	0.9	3.7
	10	1	0.9	3.9
	11	1	0.9	3.6
	12	1	0.9	3.7
	13	1	0.9	3.7
	14	1	0.9	3.6
	15	1	1.0	3.6
	16	1	0.9	3.7
	17	1	0.9	3.7
	18	1	0.9	3.7
	19	1	0.9	3.7
	20	1	0.9	3.7
	21	1	0.9	3.6
	22	1	0.9	3.7
	23	1	0.9	3.5
24	00	1	0.9	3.7
	01	1	0.9	3.8
	02	1	0.9	3.5
	03	1	1.0	3.8
	04	1	0.9	3.6
	05	1	0.9	3.7
	06	1	0.9	3.7
	07	1	1.0	3.9
	08	1	1.0	3.8
	09	1	0.9	3.7
	10	1	0.9	3.7
	11	1	0.9	3.6
	12	1	0.9	3.4
	13	1	0.8	3.5
	14	1	1.0	3.6
	15	1	0.9	3.7
	16	1	0.9	3.6
	17	1	1.1	3.7
	18	1	1.1	3.7
	19	1	0.9	3.8
	20	1	1.1	3.7
	21	1	1.0	3.8
	22	1	1.0	3.8
	23	1	1.1	3.8
25	00	1	1.1	4.0
	03	1	1.0	3.4
	06	1	1.0	3.6
	09	1	0.9	3.5
	12	1	1.1	3.5
	15	1	1.1	3.3
	18	-	-	-
	21	1	1.1	3.3
26	00	1	1.1	3.3
	03	1	1.1	3.2
	06	1	1.1	3.0

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
26 Contd.	09	1	1.1	3.0
	12	1	1.0	3.1
	15	1	0.9	3.3
	18	1	0.9	3.3
	21	-	-	-
27	00	1	1.0	3.3
	03	1	0.9	3.3
	06	1	0.7	3.0
	09	1	0.7	3.0
	12	1	0.7	3.4
	15	1	0.8	3.1
	18	1	0.7	3.2
	21	1	0.7	3.6
28	00	1	0.6	3.3
	03	1	0.6	3.6
	06	1	0.7	3.2
	09	1	0.7	3.4
	12	1	0.7	3.4
	15	-	-	-
	18	1	1.0	3.4
	21	1	0.7	3.2
29	00	1	0.7	3.3
	03	-	-	-
	06	-	-	-
	09	-	-	-
	12	-	-	-
	15	-	-	-
	18	-	-	-
	21	-	-	-
30	00	2	0.3	3.4
	06	2	0.3	3.9
	12	2	0.4	3.0
	18	2	0.4	3.0
31	00	1	0.7	2.5
	03	1	0.9	2.8
	06	1	1.3	2.8
	09	1	1.1	2.9
	12	1	1.0	3.1
	15	-	-	-
	18	1	0.8	3.1
	21	1	0.9	3.0

Station: MADRAS
Component: E.W.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
01	00	3	0.5	2.7
	03	3	0.5	2.8
	06	3	0.5	2.6
	12	1	0.6	2.9
	18	1	0.7	2.8
02	00	1	0.7	2.9
	03	1	0.6	2.6
	06	-	-	-
	12	3	0.7	3.2
	18	3	0.6	2.8
03	00	3	0.6	2.7
	03	-	-	-
	06	3	0.5	2.8
	12	3	0.5	2.8
	18	3	0.5	2.6
04	00	3	0.5	2.8
	03	-	-	-
	06	-	-	-
	12	3	0.4	2.6
	18	3	0.4	2.7
05	00	3	0.3	2.7
	03	3	0.3	2.6
	06	3	0.4	2.4
	12	3	0.4	2.7
	18	3	0.5	2.7
06	00	3	0.5	2.6
	03	3	0.4	2.7

International Seismological Centre From the ISC collection scanned by SISMOS

Station MADRAS Component: E.W.(Contd).

DATE	HOUR G.M.T	K	MEAN AMPLITUDE in m.m.	MEAN PERIOD IN secs
06	06	3	0.5	2.7
Contd.	12	3	0.4	2.6
	18	3	0.4	2.7
07	00	3	0.4	2.6
	03	3	0.5	2.6
	06	3	0.5	2.6
	12	3	0.4	2.7
	18	3	0.4	2.6
08	00	3	0.4	2.6
	03	3	0.5	2.7
	06	3	0.5	2.6
	12	3	0.5	2.7
	18	3	0.5	2.7
09	00	3	0.6	2.8
	03	1	0.6	2.7
	06	1	0.7	2.8
	12	1	0.8	2.7
	18	1	0.7	2.9
10	00	3	0.6	2.7
	03	3	0.6	2.8
	06	3	0.6	2.8
	12	3	0.6	2.9
	18	3	0.5	2.9
11	00	3	0.5	2.9
	03	3	0.5	3.0
	06	3	0.5	2.7
	12	3	0.5	2.9
	18	3	0.6	3.0
12	00	3	0.5	3.0
	03	3	0.3	2.6
	06	3	0.3	2.8
	12	3	0.3	2.7
	18	3	0.3	2.8
13	00	3	0.3	2.7
	01	3	0.3	2.7
	02	-	-	-
	03	-	-	-
	04	3	0.3	2.3
	05	3	0.3	2.3
	06	3	0.3	2.3
	07	3	0.3	2.2
	08	3	0.3	2.3
	09	3	0.3	2.3
	10	3	0.3	2.3
	11	3	0.3	2.5
	12	3	0.3	2.2
	13	3	0.3	2.4
	14	3	0.3	2.5
	15	3	0.3	2.7
	16	3	0.3	2.6
	17	3	0.3	2.6
	18	3	0.3	2.5
	19	3	0.4	2.6
	20	3	0.3	2.7
	21	3	0.3	2.6
	22	3	0.3	2.6
	23	3	0.3	2.6
14	00	3	0.3	2.5
	03	3	0.3	2.3
	06	3	0.2	2.1
	12	3	0.3	2.1
	18	3	0.3	2.2
15	00	3	0.3	2.3
	01	3	0.3	2.3
	02	3	0.3	2.1
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	3	0.3	2.3
	07	to 23 No record.		
16	00	to 05 No record		
	06	3	0.5	2.4
	07	3	0.2	2.5
	08	3	0.2	2.4
	09	3	0.2	2.4
	10	3	0.2	2.7
	11	3	0.2	2.6
16 Contd.	12	3	0.2	2.7
	13	3	0.2	2.7
	14	3	0.2	2.7
	15	3	0.2	2.8
	16	3	0.2	2.8
	17	3	0.3	2.9
	18	3	0.2	2.9
	19	3	0.2	2.9
	20	3	0.3	2.9
	21	3	0.2	2.7
	22	3	0.2	2.7
	23	3	0.2	2.7
17	00	3	0.2	2.7
	01	3	0.2	2.8
	02	3	0.2	2.7
	03	3	0.2	2.4
	04	3	0.3	2.7
	05	3	0.3	2.3
	06	-	-	-
	07	-	-	-
	08	3	0.3	2.5
	09	3	0.3	2.6
	10	3	0.3	2.7
	11	3	0.3	2.6
	12	3	0.3	2.7
	13	3	0.3	2.7
	14	3	0.3	2.7
	15	-	-	-
	16	3	0.3	2.6
	17	3	0.3	2.6
	18	3	0.4	2.8
	19	3	0.4	2.8
	20	3	0.4	2.7
	21	3	0.3	2.7
	22	3	0.3	2.7
	23	3	0.3	2.8
18	00	3	0.3	2.9
	01	3	0.3	2.7
	02	3	0.3	2.7
	03	3	0.4	2.9
	04	3	0.4	2.6
	05	3	0.4	2.6
	06	3	0.3	2.8
	07	3	0.4	2.9
	08	3	0.3	2.8
	09	3	0.3	2.7
	10	3	0.3	2.8
	11	3	0.3	2.7
	12	3	0.3	2.8
	13	3	0.4	2.8
	14	3	0.4	2.7
	15	3	0.4	2.8
	16	3	0.3	2.7
	17	3	0.4	2.7
	18	3	0.4	2.7
	19	3	0.4	2.7
	20	3	0.3	2.6
	21	3	0.5	2.7
	22	3	0.4	2.7
	23	3	0.4	2.9
19	00	3	0.4	2.8
	01	3	0.4	2.8
	02	3	0.4	2.8
	03	3	0.4	2.9
	04	3	0.4	2.8
	05	3	0.4	2.8
	06	3	0.4	2.8
	07	3	0.4	2.9
	08	3	0.5	2.7
	09	3	0.5	2.9
	10	3	0.5	2.8
	11	3	0.4	2.9
	12	3	0.5	2.8
	13	3	0.5	3.0
	14	3	0.4	2.9
	15	3	0.4	2.8
	16	3	0.4	2.9
	17	3	0.5	2.9
	18	3	0.4	2.9
	19	3	0.5	3.0
	20	3	0.4	3.0
	21	3	0.4	2.9
	22	3	0.5	3.0
	23	3	0.6	3.0
20	00	3	0.5	3.0
	01	3	0.5	2.9
	02	3	0.4	2.9
	03	1	0.6	3.0
	04	1	0.6	3.0
	05	1	0.5	2.9
	06	1	0.5	3.0
	07	3	0.4	3.0
	08	3	0.4	3.0
	09	3	0.4	3.0
	10	3	0.4	3.0
	11	3	0.5	3.1
	12	3	0.5	2.9
	13	3	0.5	2.9
	14	3	0.5	2.9
	15	3	0.5	3.1
	16	3	0.5	3.1
	17	3	0.5	2.9
	18	3	0.5	3.0
	19	3	0.5	2.9
	20	3	0.5	2.9
	21	3	0.5	2.9
	22	3	0.5	3.0
	23	3	0.5	3.0
21	00	3	0.5	2.9
	01	3	0.5	3.1
	02	3	0.5	3.1
	03	3	0.5	3.1
	04	3	0.6	3.1
	05	3	0.5	3.0
	06	3	0.5	3.1
	07	3	0.5	3.2
	08	3	0.5	3.1
	09	3	0.5	3.1
	10	3	0.4	3.1
	11	3	0.4	3.1
	12	3	0.5	3.0
	13	3	0.5	3.1
	14	1	0.5	3.1
	15	1	0.5	3.1
	16	1	0.5	3.0
	17	1	0.6	3.0
	18	1	0.5	3.0
	19	1	0.6	3.1
	20	1	0.5	3.0
	21	1	0.6	3.1
	22	1	0.5	3.0
	23	1	0.5	3.1
22	00	1	0.5	3.1
	01	1	0.5	3.1
	02	1	0.5	3.1
	03	1	0.5	3.2
	04	1	0.5	3.0
	05	1	0.5	3.1
	06	1	0.5	3.1
	07	1	0.5	3.1
	08	1	0.5	3.1
	09	1	0.5	3.0
	10	1	0.5	3.0
	11	1	0.5	3.0
	12	1	0.5	3.2
	13	1	0.5	3.0
	14	1	0.5	3.0
	15	1	0.5	3.1
	16	1	0.6	3.2
	17	1	0.5	3.2
	18	1	0.5	3.1
	19	1	0.5	3.0
	20	1	0.5	3.1
	21	1	0.5	3.3
	22	1	0.5	3.1
	23	1	0.4	3.1
23	00	1	0.5	3.1
	01	1	0.4	3.1
	02	-	-	-
	03	1	0.5	3.1
	04	1	0.5	3.2
	05	1	0.5	3.1
	06	1	0.5	3.1
	07	1	0.6	3.0
	08	1	0.6	3.1
	09	1	0.6	3.2
	10	1	0.5	3.3
	11	1	0.6	3.5
	12	1	0.6	3.4
23 Contd.	13	1	0.6	3.6
	14	1	0.6	3.6
	15	1	0.5	3.4
	16	1	0.6	3.4
	17	1	0.6	3.4
	18	1	0.6	3.5
	19	1	0.6	3.4
	20	1	0.5	3.4
	21	1	0.6	3.4
	22	1	0.6	3.5
	23	1	0.6	3.3
24	00	1	0.6	3.5
	01	1	0.6	3.5
	02	1	0.6	3.3
	03	1	0.6	3.6
	04	1	0.7	3.5
	05	1	0.7	3.5
	06	1	0.7	3.5
	07	1	0.6	3.4
	08	1	0.6	3.5
	09	1	0.7	3.4
	10	1	0.6	3.4
	11	1	0.6	3.5
	12	1	0.7	3.5
	13	1	0.6	3.7
	14	1	0.7	3.6
	15	1	0.7	3.4
	16	1	0.7	3.6
	17	1	0.7	3.5
	18	1	0.8	3.3
	19	1	0.8	3.5
	20	1	0.8	3.2
	21	1	0.7	3.2
	22	3	0.8	3.1
	23	1	0.7	3.1
25	00	1	0.7	3.3
	03	-	-	-
	06	1	1.3	3.1
	09	1	1.3	3.2
	12	1	1.3	3.3
	15	-	-	-
	18	-	-	-
	21	-	-	-
26	00	-	-	-
	03	1	1.5	3.0
	06	1	1.4	3.0
	12	1	1.5	3.0
	15	1	1.4	3.0
	18	1	1.3	3.0
	21	1	1.1	3.0
27	00	1	0.9	3.0
	03	1	0.9	3.1
	06	1	0.8	3.0
	12	1	0.8	3.1
	18	1	0.9	2.9
28	00	1	0.8	2.9
	03	1	0.8	2.9
	06	1	0.9	2.9
	12	1	0.9	2.9
	18	1	0.9	2.9
29	00	1	0.9	2.9
	03	1	0.9	3.0
	06	1	0.8	2.9
	12	1	0.9	2.9
	18	1	0.8	3.0
30	00	1	0.7	3.0
	03	1	0.6	2.9
	06	1	0.5	2.9
	12	1	0.5	2.9
	18	3	0.4	2.8
31	00	1	0.3	2.6
	03	-	-	-
	06	1	0.3	2.5
	12	1	0.4	2.8
	18	1	0.5	2.9

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DATE	HOUR G.M.T	K	MEAN AMPLI-TUDE in m.m.	MEAN PERIOD IN secs
Component: Vertical				
09	06	1	0.0	-
10	06	1	0.0	-
11	06	1	0.0	-
12	06	1	0.0	-
13	04	3	0.0	-
	05	3	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	1	0.0	-
14	06	1	0.0	-
16	04	3	0.0	-
	05	-	0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
17	06	-	0	-
18	06	-	-	-
19	06	1	0.0	-
20	06	1	0.0	-
21	04	1	0.0	-
	05	1	0.0	-
23	06	3	0.0	-
24	06	1	0.0	-
26	06	3	0.0	-
	12	1	0.0	-
	18	1	0.0	-
27	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
28	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
29	00	1	0.0	-
	06	1	2.0	1.1
	12	1	0.0	-
	18	1	0.0	-
30	00	1	0.0	-
	06	-	-	-
31	06	1	0.0	-
Component: N.S.				
09	06	1	0.0	-
10	06	1	0.0	-
11	06	1	0.0	-
12	06	1	0.0	-
13	04	3	0.0	-
	05	3	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	-	0	-
	10	-	0	-
	11	-	0	-
14	06	-	0	-
16	04	1	0.0	-
	05	1	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
17	06	-	0	-
18	06	-	-	-
19	06	1	0.0	-
20	06	1	0.0	-
21	04	3	0.0	-
	05	1	0.0	-
23	06	3	0.0	-
24	06	3	0.0	-
Station: COCHIN.				
26	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
27	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	-	0	-
28	00	1	0.0	-
	06	1	0.0	-
	12	1	0.0	-
	18	1	0.0	-
29	00	1	0.0	-
	06	1	2.5	1.1
	12	1	0.0	-
	18	1	0.0	-
30	00	1	0.0	-
	06	3	0.0	-
31	06	3	0.0	-
Component: E.W.				
09	06	1	0.0	-
10	06	1	0.0	-
11	06	1	0.0	-
12	06	1	0.0	-
13	04	3	0.0	-
	05	3	0.0	-
	06	1	0.0	-
	07	1	0.0	-
	08	1	0.0	-
	09	1	0.0	-
	10	1	0.0	-
	11	1	0.0	-
14	06	3	0.0	-
16	04	3	0.0	-
	05	1	0.0	-
	05	1	0.0	-
	07	1	1.1	1.5
	08	1	0.9	1.4
	09	1	0.8	1.4
	10	1	0.0	-
	11	1	0.0	-
17	06	-	0	-
18	06	-	-	-
19	06	1	2.0	1.0
20	06	1	0.0	-
21	04	3	0.0	-
	05	3	0.0	-
23	06	3	0.0	-
24	06	1	0.0	-
26	06	3	0.0	-
	12	1	1.9	1.4
	18	-	-	-
27	00	-	-	-
	06	-	-	-
	12	1	1.8	1.4
	18	1	0.8	1.4
28	00	1	1.2	1.4
	06	3	1.0	1.4
	12	1	1.4	1.5
	18	3	2.7	2.9
			1.8	1.4
29	00	1	2.8	2.0
	06	3	3.5	1.8
	12	1	1.0	1.8
	18	1	0.0	-
30	00	1	0.0	-
	06	3	0.0	-
31	06	-	-	-

Station: PORT BLAIR Component: E.W.

DATE	HOUR G.M.T	K	GROUND MOTION IN (Micron)	MEAN PERIOD IN Secs
01 to 14 No microseismic movement or no record.				
15	00	0..	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	2	.4	2.5
	05	2	.4	2.5
	06	2	.4	2.5
	07	2	.4	2.5
	08	2	.4	2.5
	09	2	.4	2.5
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
15 Contd.	21	-	-	-
	22	-	-	-
	23	-	-	-
16	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	-	-	-
	11	2	.8	3.0
	12	2	.8	3.0
	13	2	.8	3.0
	14	2	.8	3.0
	15	2	.8	3.0
	16	2	.8	2.8
	17	2	.8	2.5
	18	2	.4	2.5
	19	2	.4	2.5
16 Contd.	20	2	.4	2.5
	21	2	.4	2.5
	22	2	.8	2.5
	23	2	.8	2.5
17	00	2	.4	2.5
	01	2	.4	2.5
	02	2	.4	2.5
	03	2	.4	2.5
	04	2	.4	2.5
	05	2	.4	2.5
	06	-	-	-
	07	-	-	-
	08	-	-	-
	09	-	-	-
	10	2	.4	2.5
	11	2	.4	2.5
	12	2	.4	2.5
	13	2	.4	2.5
	14	2	.4	2.5
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	2	.8	2.8
17 Contd.	19	2	.8	2.8
	20	2	.8	2.8
	21	2	.8	2.5
	22	2	.8	2.5
	23	2	.8	3.1
18	00	2	.8	3.5
	01	2	.8	3.5
	02	2	.8	3.5
	03	2	.8	3.0
	04	-	-	-
	05	-	-	-
	06	-	-	-
	07	2	.8	3.1
	08	2	.8	3.0
	09	2	.8	3.1
	10	2	.8	3.1
	11	2	.8	3.1
	12	2	.8	3.0
	13	2	.8	3.0
	14	2	.8	3.0
	15	2	.8	2.5
	16	2	.8	2.5
	17	2	.8	2.5

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DATE	HOUR G.M.T	K	GROUND MOTION IN (Micron)	MEAN PERIOD IN secs
Station: PORT BLAIR				
18	18	2	.8	2.5
Contd	19	2	.8	2.5
	20	2	.8	2.5
	21	2	.8	2.5
	22	2	.8	2.5
	23	-		
19	00	-	-	-
	01	-	-	-
	02	-	-	-
	03	-	-	-
	04	2	.4	2.5
	05	2	.4	2.5
	06	2	.4	2.5
	07	2	.4	2.5
	08	2	.4	2.5
	09	2	.4	2.5
	10	2	.4	2.5
	11	2	.4	2.5
	12	2	.4	2.5
	13	2	.4	2.5
	14	2	.4	2.5
	15	2	.4	2.5
	16	2	.4	2.5
	17	2	.4	2.5
	18	2	.4	2.5
	19	2	.4	2.5
	20	2	.4	2.5
	21	2	.4	2.5
	22	-		
	23	-		
20	00 to 23 No microseismic movement.			
21	00	00	-	-
	01	00	-	-
	02	00	-	-
	03	00	-	-
	04	00	-	-
	05	00	-	-
	06	00	-	-
	07	00	-	-
	08	00	-	-
	09	00	-	-
	10	00	-	-
	11	00	-	-
	12	00	-	-

DATE	HOUR G.M.T.	K	T	GROUND MOTION IN (Micron)	MEAN PERIOD IN secs
Component: E.W. (Contd.)					
21	13	00	-	-	-
Contd.	14	00	-	-	-
	15	00	-	-	-
	16	00	-	-	-
	17	00	-	-	-
	18	00	-	-	-
	19	00	-	-	-
	20	00	-	-	-
	21	00	-	-	-
	22	00	-	-	-
	23	2	4	.4	2.5
22	00	2	4	.4	2.5
	01	-	-	-	-
	02	-	-	-	-
	03	-	-	-	-
	04	-	-	-	-
	05	2	4	.4	2.5
	06	2	4	4	2.5
	07	0.0	-	-	-
	08	-	-	-	-
	09	-	-	-	-
	10	-	-	-	-
	11	-	-	-	-
	12	-	-	-	-
	13	2	8	.8	3.1
	14	2	8	.8	3.1
	15	2	8	8	3.0
	16	2	4	.4	2.5
	17	2	4	.4	2.5
	18	2	8	.8	3.0
	19	2	8	.8	3.0
	20	2	8	.8	3.0
	21	2	8	.8	3.0
	22	2	8	.8	3.0
	23	2	8		3.0
23	00	2	8	.8	3.1
	01	2	8	.8	3.0
	02	2	8	.8	3.1
	03	2	4		2.6
	04	-	-	-	-
	05	2	1.2		2.8
	06	2	8		2.8
	07	2	4		2.5
	08	2	8		2.8
	09	2	8		2.8

DATE	HOUR G.M.T	K	GROUND MOTION IN (Micron)	MEAN PERIOD IN secs
23	10	2	.8	2.8
Contd.	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	2	.8	2.8
	15	2	.8	2.8
	16	2	.8	3.1
	17	2	.8	3.1
	18	2	.8	3.1
	19	2	.8	3.1
	20	2	.8	2.5
	21	2	.8	2.5
	22	2	.8	2.5
	23	2	.8	3.3
24	00	2	.8	3.2
	01	2	.8	3.2
	02	2	.8	3.1
	03 to 23 No microseismic movement.			
25	00	-	-	-
	06	2	.8	2.8
	12	2	.8	2.8
	18	2	.8	2.8
26	00	0,0	-	-
	06	0,0	-	-
	12	0,0	-	-
	18	0,0	-	-
27	00	0,0	-	-
	06	-	-	-
	12	2	.8	3.0
	18	0,0	-	-
28	00	0,0	-	-
	06	0,0	-	-
	12	2	.8	2.5
	18	2	.8	2.5

DATE	HOUR G.M.T	K	GROUND MOTION IN (Micron)	MEAN PERIOD IN secs
29	00	2	.4	2.5
	06	-	-	-
	12	-	-	-
	18	-	-	-
30	00	2	.4	2.5
	06	1	.8	7.5
	12	1	.8	7.5
	18	1	.8	7.5
31	00	1	.8	7.5
	06	1	.4	7.5
	12	1	.8	7.5
	18	1	.4	2.2

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
Component: Vertical				
01	00	0..	-	-
	06	0..	-	-
	12		0.5	4.8
	18		0.5	4.4
02	00		0.4	4.2
	06	0..	-	-
	12	0..	-	-
	18		0.5	4.1
03	00		0.7	4.4
	06		-	-
	12		-	-
	18		0.6	4.2
04	00	3	0.7	5.2
			0.6	4.2
	06		-	-
	12		-	-
	18		0.6	4.9
05	00		0.6	4.7
	06		-	-
	12		-	-
	18		0.5	4.1
06	00		0.6	4.4
	06		-	-
	12		0.6	4.1
	18		0.6	4.7
07	00		0.5	4.1
	06		-	-
	12		0.7	4.6
	18		1.0	4.2

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
08	00		0.7	5.0
			0.8	4.1
	06		0.6	4.5
	12		-	-
	18		0.7	4.7
09	00		0.5	4.2
	06		-	-
	12		-	-
	18		0.6	4.5
10	00		0.7	4.5
	06		-	-
	12		0.5	4.4
	18		0.7	4.2
11	00		0.5	3.9
	06		-	-
	12		0.6	4.7
	18		0.7	4.5
12	00		0.5	4.2
	06		-	-
	12		0.4	3.9
	18		0.4	4.2
13	00		0.5	4.0
	01		0.5	3.9
	02		-	-
	06		-	-
	12		-	-
	18		0.4	4.0
	19		0.4	3.9
	20		0.3	3.8
	21		0.3	3.7

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
Station: HOWRAH				
13	22		0.4	3.6
Contd.	23		0.3	3.8
14	00		0.5	4.3
	06		0.4	3.2
	12		0.3	4.5
	18		0.4	3.9
15	00		0.5	4.2
	01		0.5	3.6
	02		0.6	3.7
	06		0.5	3.7
	12		0.4	3.8
	16		0.6	3.8
	17		0.8	3.9
	18		0.5	3.9
	19		0.6	3.8
	20		0.6	3.7
	21		0.5	3.7
	22		0.7	3.9
	23		0.6	3.8
16	00		0.5	4.2
	01		0.4	3.7
	02		0.5	3.7
	06		-	-
	12		-	-
	16		0.4	3.5
	17		0.5	3.5
	18		0.4	3.3
	19		0.5	3.4
	20		0.5	3.7
	21		0.5	3.9
	22		0.5	3.7
	23		0.6	3.7

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
17	00		0.6	3.8
	01		0.6	3.8
	06		-	-
	12		-	-
	18		-	-
	20		0.6	3.8
	21		0.6	3.7
	22		0.5	3.6
	23		0.5	3.5
18	00		0.4	3.5
	06		-	-
	12		-	-
	15		0.5	3.7
	16		0.6	3.8
	17		0.6	3.9
	18		0.5	4.0
	19		0.5	4.0
	20		0.6	4.3
	21		0.4	3.8
	22		0.5	3.5
	23		0.6	3.9
19	00		0.6	3.7
	01		0.6	4.0
	06		-	-
	12		0.6	4.2
	16		0.7	4.2
	17		0.5	4.1
	18		0.7	4.1
	19		0.6	3.9
	20		0.6	3.7
	21		0.5	3.6
	22		0.4	3.6
	23		0.5	3.5

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Component: Vertical

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
20	00		0.5	3.7
	01		0.7	3.9
	02		0.5	3.7
	06		-	-
	12		0.4	3.5
	16		0.5	3.6
	17		0.5	3.7
	18		0.6	3.9
	19		0.5	3.9
	20		0.6	3.9
	21		0.5	3.8
	22		0.6	3.7
	23		0.6	3.9
21	00		0.5	4.0
	01		0.5	3.9
	02		0.5	3.9
	06		-	-
	12		0.5	3.6
	13		0.6	3.6
	14		0.5	3.8
	15		0.5	3.5
	16		0.5	3.6
	17		0.6	3.7
	18		0.6	3.7
	19		0.6	3.8
	20		0.5	3.6
	21		0.5	3.7
	22		0.4	3.7
	23		0.4	3.8
22	00		0.5	3.5
	01		0.5	3.6
	02		0.9	3.6
	06		-	-
	10		1.0	3.8
	11		0.8	3.6
	12		0.8	4.3
	13		0.9	3.9
	14		0.8	3.8
	15		1.1	3.9
	16		0.8	3.9
	17		1.1	4.0
	18		0.6	3.9
	19		0.8	3.8
	20		0.9	3.8
	21		0.8	3.7
	22		0.9	4.0
	23		1.3	4.0
23	00		0.7	3.8
	01		1.1	3.8
	02		1.0	3.9
	06		-	-
	12		0.6	3.9
	13		0.8	4.0
	14		0.9	4.0
	15		0.9	4.0
	18		-	-
	20		1.0	4.0
	21		1.1	4.1
	22		1.2	4.2
	23		1.0	4.0
24	00		1.2	4.0
	01		1.1	4.0
	02		1.0	4.1
	06		-	-
	12		0.7	4.0
	15		1.1	4.0
	16		0.8	4.1
	17		0.8	4.0
	18		0.7	4.0
	19		0.8	4.1
	20		1.2	4.3
	21		1.2	3.9
	22		0.9	4.0
	23		1.0	4.1
25	00		0.8	4.1
	06		1.4	4.2
	12		0.9	4.1
	18		1.0	4.0
26	00		1.5	4.0
	06		-	-
	12		0.5	4.0
	18		0.9	4.1
27	00		1.4	4.0
	06		-	-
	12		-	-
	18		0.9	4.8
28	00		1.2	4.7
	06		-	-
	12		-	-
	18		-	-
29	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
30	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
31	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-

Component: E.W.

01 to 07 No prominent microseisms recorded .5 to .7 sec. oscillations musk regular waves if any.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
08	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	1.2	5.6
09	00	-	1.1	5.7
	06	-	-	-
	12	-	-	-
	18		0.9	5.0

10 to 20 No prominent regular microseisms recorded 5 to .7 sec. period oscillations musk regular waves if any.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
21	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
	20		0.7	3.8
	21		0.8	3.4
	22		1.0	3.5
	23		1.0	3.2
22	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
	19		0.7	3.8
	20		0.8	3.6
	21		1.1	4.1
	22		1.2	4.3
23	00	-	-	-
	06	-	-	-
	12	-	-	-
	18	-	-	-
	19		1.0	3.8
	20		1.2	3.4
	21		1.0	3.5
	22		0.8	3.6
	23		1.0	3.6
24	00		1.2	3.9
	06		-	-
	12		-	-
	18		1.5	3.3
	19		1.1	3.5
	20		0.9	3.3
	21		0.9	3.5
	22		1.0	3.6
	23		1.1	3.4
25	00		0.9	3.5
	06		-	-

Station: HOWRAH (Contd.)

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
25 Contd.	12		-	-
	18		1.0	3.5
26	00		1.0	3.2
	06		-	-
	12		-	-
	18		0.8	3.0

27 to 30 No prominent regular microseisms recorded.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
31	00	-	-	-
	06	-	-	-
	12	-	-	-
	18		1.0	3.4

Component: N.S.

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
01	00	0.	-	-
	06	0.	-	-
	12	0.	-	-
	18	0.	-	-
02	00	0.	-	-
	06	0.	-	-
	12	0.	-	-
	18	0.	-	-
03	00	0.	-	-
	06	0.	-	-
	12	0.	-	-
	18		1.4	5.6
04	00		1.4	5.6
	06	0.	-	-
	12	0.	-	-
	18		1.1	5.7
05	00		1.3	5.3
	06		-	-
	12		-	-
	18		1.0	5.2
06	00		1.5	5.6
	06		-	-
	12		-	-
	18		1.1	5.2
07	00		1.3	5.4
	06		-	-
	12		-	-
	18		1.3	5.7
08	00		1.5	5.4
	06		1.7	5.7
	12		1.9	6.1
	18		1.9	6.0
09	00		1.7	5.8
	06		-	-
	12		-	-
	18		1.3	5.5
10	00		1.4	5.3
	06		2.6	5.4
	12		-	-
	18		1.4	5.0
11	00		1.4	5.0
	06		-	-
	12		-	-
	18		1.2	5.7
12	00		0.8	4.9
	06		-	-
	12		-	-
	18		1.1	5.2
13	00		0.7	5.4
	06		-	-
	12		-	-
	18	3	1.1	5.2
			0.8	4.1
	19		0.9	4.5
	20		1.3	5.1
	22		0.5	2.9
	23		0.5	2.3
14	00	3	1.0	5.2
			0.8	2.3
	06	-	-	-
	12	-	-	-
	18		1.2	5.3
15	00		1.1	4.4
	06		-	-
	12		-	-
	18		0.8	4.7
	19		0.8	4.8
	20		0.7	4.9
	21		0.6	4.4
	22		0.9	4.8
	23		0.8	5.0
16	00		1.3	5.2
	06		-	-
	12		-	-
	18		1.2	4.4
	19		1.3	5.0
	20		0.7	4.1
	21	3	0.7	5.2
			0.8	3.5
	22		1.0	4.8
	23		1.2	4.9
17	00	3	1.2	5.5
			0.8	3.4
	06		-	-
	12		-	-
	18	3	1.2	4.7
			1.1	3.4
	19	3	1.1	4.5
			0.7	2.8
	20		1.1	4.1
	21		1.0	3.3
	22		1.3	3.6
	23		1.1	3.5
18	00	3	1.2	4.2
			1.2	3.3
	06		-	-
	12		-	-
	18	3	1.9	4.2
			0.9	3.3
	19	3	2.0	5.2
			1.3	3.8
	20		1.2	3.7
	21		1.2	4.4
	22	3	2.1	5.1
			1.2	3.5
	23	3	1.2	4.2
			1.0	3.1
19	00	3	1.0	4.4
			0.7	3.3
	06	-	-	-
	12	-	-	-
	15		1.3	4.1
	16		0.8	3.3
	17		1.0	3.5
	18		1.6	3.9
	19		1.5	3.7
	20		1.6	4.9
	21		1.3	3.9
	22		1.3	3.9
	23		1.6	4.7
20	00		1.0	3.7
	06		-	-
	12		-	-
	14		1.3	4.0
	16		2.0	5.2
	17	3	2.0	5.4
			1.9	4.4
	18	3	1.9	4.3
			1.4	3.0
	19		1.5	4.2
	20		1.7	4.7
	21		1.7	5.0
	22		1.6	4.7
	23		1.2	3.9
21	00		1.7	4.2
	06		-	-
	12		-	-

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DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
Component: N.S.				
21	17		1.1	4.1
Contd.	18		1.3	4.2
	19		1.2	3.9
	20		1.1	3.7
	21		0.7	3.5
	22		1.0	3.5
	23		0.8	3.5
22	00		1.2	3.4
	01		0.6	2.3
	02		0.8	3.4
	06		-	-
	12		-	-
	13		0.7	3.3
	14		0.7	3.1
	15		0.7	3.3
	16		0.8	3.1
	17		1.0	3.5
	18		1.4	3.5
	19		1.4	3.5
	20		1.4	3.6
	21		1.4	3.8
	22		1.1	3.7
	23		0.9	3.4
23	00		1.4	3.8
	06		-	-
	12		-	-
	17		1.2	3.8
	18		1.1	3.5
	19		1.2	3.6
	20		1.5	3.8
	21		1.2	3.6
	22		0.9	3.4
	23		1.1	3.7
24	00		1.1	3.7
	06		-	-
	12		1.2	4.1
	14		1.6	3.7
	15		1.8	3.7
	16		1.6	3.2
	17		1.0	3.4
	18		1.1	3.5
	19		1.3	3.5
	20		1.3	3.4
	21		1.2	3.4
	22		1.2	3.5
	23		1.2	3.5

DATE	HOUR G.M.T	K	MEAN AMPLITUDE (Micron)	MEAN PERIOD IN secs
Station: HOWRAH (Contd.).				
25	00		1.2	3.5
	06		-	-
	12		1.0	3.3
	18		1.4	3.5
26	00		0.8	3.0
	06		-	-
	12		-	-
	18		1.2	4.1
27	00		0.9	3.3
	06		-	-
	12		-	-
	18		1.6	4.9
28	00	3	1.8	5.0
			1.0	3.4
	06		-	-
	12		0.7	4.0
	18		1.2	3.5
29	00		0.9	3.4
	06		-	-
	12		-	-
	18		1.5	4.9
30	00	3	2.0	5.1
			0.8	3.3
	06		-	-
	12		-	-
	18		1.5	4.9
31	00		1.2	4.6
	06		-	-
	12		-	-
	18		0.9	3.3

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