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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-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	To = Tg = 7.0	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	To=0.72 Tg=0.45	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	To = Tg = 7.2	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	To=1.5 Tg=1.5	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	To=1.0 Tg=0.18	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE STATION COMPT PHASE GMT Δ REMARKS
 h m s km

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03	CHATRA	Z	eP	20 50 10	650	Feeble
	Contd.		iS	51 18		
04	CHATRA	Z	eP	06 27 03	310	Feeble
			iS	27 38		
04	BOMBAY	E	e	12 11 45		Feeble
			e	15 43		
04	CHATRA	Z	iP	12 45 45	360	Slight
			iS	46 25		
05	Epc: 50°S, 162°E. Off coast of South Island, Newzealand. H = 00h 50m 12s (U.S.C.G.S) Magnitudes 7.2 (Roma) 7 (Praha, Skainsate Pleso, Hurbanevo, Uppsala) 6.5-7 (Kiruna) 6.5-6.5 (Pasadena) 6.5 (Takubaya).					
COLOMBO	E	P	01 03 06			'S' lost while changing the chart
		S	-- -- --			
		L	31 01			
		M	36 09			
SHILLONG	Z	eP	01 03 50			--
KODAIKANAL	E	eP	01 03 51	9670		Long distance Earthquake of moderate intensity. PER. = 22.5 secs. / Δ = 78.1
		iS	14 29			
		M	38 54			
MADRAS	E	eP	01 04 01	9400		Moderate, distant.
		PP	07 32			
		iS?	14 28			
		PPS	16 24			
		SS	20 39			
		M	37 19			
HYDERABAD	E	e	01 04 10			
		i	14 45			
		L	29 35			
		M	36 49			Per. = 21 secs. / Δ = 38
POONA	Z	iP	01 04 18	11160		Moderate
	N	PP	08 43			
		PPP	11 04			
		SKS1	13 01			
		iS	16 08			
		PS	17 44			
		PPS	18 51			
		PKKP1	20 05			
		SS	23 27			
		Lq	34 21			
		Lr	38 33			
		M	45 39			Per. = 18.3 secs. / Δ = 57.5.
BOMBAY	N,E	eP	01 04 33	11850		Moderate.
		ePKP1	08 17			
		PP	08 56			
		PPP	11 11			
		SKS1	15 11			
		eS?	16 22			
	E	iS?				
	N,E	PS	17 55			
	N	PPS	18 48			
	E	i	18 59			
		eSS	23 38			
	N	eSS	23 45			
	N,E	SSS	28 00			
	N	M	53 06			Per. = 19 secs. / Δ = 217.1
	E	M	55 19			
NEW DELHI	N	eP	01 07 46	9980		Moderate
		i	09 16			
		PP	11 32			
		i	14 32			
		i	15 25			
		iS	18 37			
		PS	19 40			
		PPS	20 10			
		SS	24 40			
		SSS	28 02			
		M	42 14			
05	DEHRADUN	N,E	e	17 26 45		Tremor.

 DATE STATION COMPT PHASE GMT Δ REMARKS
 h m s km

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 05 Epc: 16°S, 167°E. New Hebrides Islands
 H = 17h 48m 35s (U.S.C.G.S)
 Magnitude = 6.5 (Pasadena), 7 (Praha).

SHILLONG	Z,N,E	iP	18 01 15	9380		Moderate.
	N	PP	03 34			
		PPP	06 30			
		iS	11 41			
		PS	12 37			
		PPS	13 03			
		SS	17 22			
		SSS	20 52			
		Lq	24 18			
		Lr	28 18			
		M	35 11			
COLOMBO	E	eP	18 01 22			
		S	42 05			
		L	31 --			
		M	38 40			Amplitude 1.6
HYDERABAD	E	eP	18 01 37	9990		
		PP	05 31			
		iS	12 29			
		PPS	14 21			
		SS	19 30			
		L	31 11			
		M	37 25			Per. = 30 secs. / Δ = 24
BOKARO	N,E	eP	18 01 42	9360		Moderate shock
		e(PP?)	04 46			
		e	05 33			
		e	07 05			
		e	08 42			
		e	11 11			
		SKS1	11 52			
		SKKS1	12 01			
		iS	12 07			
		PS	12 52			
		PPS	13 24			
		i?	18 48			
		SSS	21 14			
		Lq	24 40			
		Lr	28 05			
		M	35 42			
MADRAS	E	iP	18 01 44	9890		Moderate
		PP	05 22			
		PPP	07 23			
		SKS	12 04			
		SKKS	12 19			
		iS	12 31			
		i	13 00			
		PS	13 41			
		PPS	14 12			
		SS	19 05			
		SSP	19 21			
		M	36 09			
KODAIKANAL	E	eP	18 01 52	9550		Slight
		iS	11 26			
		M	37 10			Per. = 20 secs. / Δ = 30
DEHRADUN	N	eP	18 01 52	10190		Moderate
		PP	05 37			
		PPP	07 16			
		eS	12 51			
		PS	14 03			
		PPS	14 49			
		SS	19 19			
		SSS	23 13			
		Lq	28 05			
		Lr	32 30			
		M	40 06			
BOMBAY	E	eP	18 02 23	11250		Moderate
		PP	08 33			
		PPP	08 36			
	N,E	SKS1	13 00			
		i	13 17			
	E	eS	14 00			
	N	e	14 17			
	E	PS	15 23			
		SS	21 08			
		SSS	24 51			
		M	47 12			
	N	M	56 28			Per. = 19 secs. / Δ = 22.5

DATE STATION COMPT PHASE GMT Δ REMARKS
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05 POONA Contd. Z N IP 18 02 18 11400 Moderate.
PP 06 13
PPP 08 27
SKS1 12 23
SKKS1 12 48
IS 14 00
PS 14 10
PPS 15 52
PKKP2 19 05
SS 20 29
SSP 20 41
PKKS1 23 41
PcPPKP2 03 35
SSS 04 12
SKKS2 24 13
Lq 29 39
SKKS 30 15
Lr 34 14
M 42 55

05 NEW DELHI E eP 18 35 35 870 Slight
eS 37 05
SS 37 17
SSS 37 26
S 37 30
M 37 51

05 CHATKA Z IP 21 59 03 250 Slight
IS 59 32

05 BOKARO N,E eP 22 00 06 140 Slight, near
S/Sg 08 34

05 NEW DELHI E eS 23 01 50 710 Slight
SS 02 01
SSS 02 16
S 02 21
Sg 02 29

05 DHHRADUN N e 22 01 23 Fizzle

05 Epc: 16°S, 167°E, New Hebrides Islands
- H: 23h 42m 03s (U.S.C.G.S)
16°S, 167°E - H: 23h 42m 06s (B.C.I.S)
Magnitudes: 6M (Pacifica, Shalote Pisco, Murbonave) 6M (Kirana, Uppasia, Kona, Praha)

SHILLONG N,E eP 23 54 53 9500 Moderate
PP 58 15
PPP 00 00 13
IS 05 26
PS 06 23
PPS 06 57
SS 11 04
SSS 14 34
Lq 18 06
Lr 22 58
M 29 38

COLOMBO E P 23 55 16 9440
S 00 03 47
L 29 26
M 32 03 Amp. 1.4 mm

KODAIKANAL E eP 23 55 19 9710 Long distance earthquake of slight intensity
IS 00 05 59 Per. 15 secs Au 40
M 30 38

MADRAS E eP 23 55 21 10680 Moderate, distant
eS 00 06 16
PS 07 33
SS 12 25
SSP 12 41

HYDERABAD E eP 23 55 23 9790
PP 59 17

BOKARO N,E eP 23 55 37 8920 Moderate shock
PP 58 44
PPP 00 00 43
IS 03 43
SKS 05
ScS 05 56
PS 06 29
PPS 06 54

DATE STATION COMPT PHASE GMT Δ REMARKS
h m s km

January 1955

05 BOKARO Contd. N,E SS 00 11 16
SSS 14 29
Lq 17 57
Lr 21 44
M 27 44

POONA Z IP 23 55 52 10860 Moderate
N PP 59 52
PPP 00 01 57
SKS1 06 31
SKS2 06 56
IS 07 15
PS 08 43
PPS 09 33
PKKP2 12 30
SS 14 04
SSP 14 23
PKKP2 16 11
PcPPKP2 17 05
SSS 17 55
SKKS2 19 52
Lq 23 13
SKKS 25 54
Lr 28 15
M 36 03

BOMBAY E eP 23 55 57 11270 Great.
N eP 56 01 Phases not clear.
e 00 04 00
E SKS 06 34
N eS 07 35
E eS 07 43
N PS 08 57
E SS 14 25
SS 14 34
N SSS 18 15
M 30 --

04 HYDERABAD E S 00 06 57 Per. 18 secs
PPS 08 03 Au 10
SS 12 49
M 30 56

06 DEBRA DUN N e 00 06 27 Tremor

06 COLOMBO E S 02 46 05 Amp. 0.5
M 03 15 40

06 KODAIKANAL E ? 05 41 48
Epc: 16°S, 167°E, New Hebrides after shock
- H: 09h 48m 19s (U.S.C.G.S)

SHILLONG Z eP 10 00 54 Distant
COLOMBO E P 10 11 54
L 37 --
M 42 35 Amp. 0.4 mm

BOMBAY E i 10 12 45 After shock
DENRA DUN N,E e 11 18 26 Tremor

07 Epc: 16°S, 78°E, Indian Ocean
- H: 09h 44m 28s (U.S.C.G.S)
16°S, 77°E - H: 09h 44m 29s (B.C.I.S)

MADRAS E eP 09 50 43 3210 Slight 'P'
IS 55 33 phases overlapped by microseism

KODAIKANAL E eP 09 50 54 2450 Short distance
eS 54 54 earthquake of slight intensity
M 58 35 Per. 10 secs Au 62.9

POONA Z IP 09 51 25 3900 Slight
E PP 52 53
PPP 53 15
eS 56 58
SS 59 23
Lq 59 30
SSS 59 52
Lr 10 01 15
M 04 09

DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G.M.T. h. m. s.	Δ km	REMARKS	
January 1955							January 1955							
13	BOMBAY	E	eP	02 16 52	10110	Moderate	14	BOKARO	N,E	eP	07 46 23	730	Slight	
		N,E	eP	16 55			Contd		Lq	47 23				
		N	e	18 49					iS	47 39				
			PP	20 39					Lr	47 55				
		N,E	SKS1	27 28					SS	47 50				
		E	iS	27 48					SSS	48 03				
		N	eSg	27 51					M	48 22				
		E	iSg											
		N	PS	29 09				NEW DELHI	N,E	eP	07 48 07	1540	Slight	
			SS?	34 20					PP	48 21				
		E	M	03 01 33		Per. = 23 secs			PPP	48 28				
		N	M	01 45		/u = 52			iS	50 42				
									SS	50 57				
	COLOMBO	E	eP	02 20 --		Trace over			SSS	51 08				
			S	23 --		lapping			N	Lr	51 14			
			L	54 21				N,E	M	52 21				
			M	03 00 36		Amp. = 1.3 mm		DEHRA DUN	N,E	eP	07 48 12	1520	Moderate	
13	SHILLONG	Z	iP	02 47 34		Slight			N	PP	48 21			
	POONA	Z	i	02 48 53		Slight			PPP	48 28				
13	BOMBAY	N	eP	02 48 55	10110	Slight			Lq	50 38				
		E	eP	48 57					iS	50 46				
		N	eS?	59 51					SS	51 01				
		E	eS	59 53					SSS	51 14				
									Lr	51 19				
									S*	51 44				
									M	52 26				
13	SHILLONG	Z	iP	02 56 35		Slight		HYDERABAD	E	eP	07 48 21	1620		
13	SHILLONG	Z	e	05 43 21		Slight			N	iS	51 05			
			e	43 49					E	L	52 19			
			e	44 04						M	54 08		Per. = 6 secs. / u = 3	
13	SHILLONG	Z	e	08 55 45		Slight		MADRAS	E	iP	07 48 36	2060	Slight.	
			e	56 48					PP	48 50				
13	SHILLONG	Z	eP	09 56 25		Slight			PPP	48 59				
	MADRAS	E	e	09 56 35		Slight, other phases not clear			iS	52 00				
13	SHILLONG	Z	e	10 57 44		Feeble			SS	52 21				
13	SHILLONG	Z	e	10 59 11		Slight			SSS	52 35				
	MADRAS	E	e	10 59 30		Slight, other phases not clear			Lr	52 52				
13	SHILLONG	Z	i	11 12 42		Slight			M	55 07				
13	SHILLONG	Z	e	12 58 00		Feeble		POONA	Z	eP	07 49 06		Slight	
13	SHILLONG	Z	i	13 18 04		Slight			Z,E	PP	49 24			
13	SHILLONG	Z	e	14 10 36		Slight, near			PPP	49 30				
			e	11 02					eS	52 33				
13	SHILLONG	Z	i	15 55 54		Slight			Lq	52 38				
13	SHILLONG	Z	e	18 16 43		Slight			SS	52 52				
13	SHILLONG	Z	i	20 19 13		Slight, near			SSS	53 07				
		N,E	i	20 40					M	55 10				
14	SHILLONG	Z	iPg	04 10 51	20	Slight			PcS	56 21				
			iSg	10 53				BOMBAY	N,E	eP	07 49 19	2210	Slight	
14	SHILLONG	Z	iPg	04 55 49	20	Slight				eS	52 58			
			iSg	55 51				14	SHILLONG	Z	e	06 05 25		Slight
14	SHILLONG	Z	iP	05 29 57		Slight				i	10 19 56		Slight	
14	SHILLONG	Z	e	12 12 49		Slight, near				e	12 12 49		Slight, near	
			e	13 13						i	41 43		Slight, near	
14	SHILLONG	Z	e	14 41 21		Slight, near				iP	14 45 27		Slight	
14	SHILLONG	Z	e	14 59 12		Slight, near				e	14 59 12		Slight, near	
			i	59 34						i	15 07 43		Feeble	
14	SHILLONG	Z	e	15 07 43		Feeble				eP?	16 40 38		--	
14	MADRAS	E	eP?	16 40 38		--				e	17 41 51		--	
14	MADRAS	E	e	17 41 51		--				e	18 12 09		Feeble	
14	SHILLONG	Z	e	18 12 09		Feeble				e	18 19 46		Slight, local	
14	SHILLONG	Z	e	18 19 46		Slight, local				e	19 58			
			e	19 58						i	21 30 03		Slight, local	
14	SHILLONG	Z	e	21 30 03		Slight, local				i	30 13			
14	SHILLONG	Z	e	22 09 02		Slight, local				i	09 20			
			i	09 20				15	SHILLONG	Z	iP/P*	00 47 01	160	Slight
			iS	47 18						Pg	47 02			
										eSg	47 21			

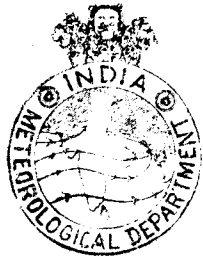
14 Epc: $23^{\circ}N, 93^{\circ}E$ - $H = 07h 44m 42s$ (Shillong)
 Assam Burma Frontier. - $h = 100 km$ Ca.
 - $H = 07h 44m 40s$ (U.S.C.G.S)
 $24.9^{\circ}N, 94^{\circ}E$ - $H = 07h 44m 42s$ (BCIS) - $h = 100 km$ Ca
 Magnitude $\approx 4\frac{1}{2}$. Felt at Shillong, Silchar,
 Imphal, Haiflong and Karimganj.

DATE	STATION	COMPT	PHASE	U.S.T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	U.S.T. h. m. s.	Δ km	REMARKS
15	SHILLONG	Z	e	10 04 38		Feeble	17	SHILLONG	Z	e	15 43 28		Slight
15	SHILLONG	Z	e	11 15 23		Slight	17	SHILLONG	Z	iP iSg	17 30 13 30 23	80	Slight
15	SHILLONG	Z	eP/P* Pg eSg	12 52 13 52 14 52 34	170	Slight	17	SHILLONG	Z	e	17 45 27 45 44		Slight
	CHATRA	Z	eP iS	12 52 35 53 17	480	Feeble	17	SHILLONG	Z	e	17 58 20		Slight
15	SHILLONG	Z	e	15 50 25 50 27 50 49		Slight, local	17	SHILLONG	Z	eP P* Lq s iSg	18 41 03 41 09 41 33 41 45 41 59	370	Slight
	CHATRA	Z	eP iS	15 50 31 51 05	300	Feeble	17	SHILLONG	Z	e	19 50 44		Feeble
15	SHILLONG	Z	e	19 59 30		Slight	17	SHILLONG	Z	e	21 58 22		Slight, distant
15	SHILLONG	Z	e	20 03 17		Slight, distant	17	SHILLONG	Z	e	22 34 11		Slight
15	SHILLONG	N Z	e(M) i	20 18 45 20 16 14		Slight, near	17	SHILLONG	N Z	eP iSg	21 59 18 22 22	10	Slight
16	SHILLONG	Z	e	14 42 01 42 33		Slight, near	17	SHILLONG	Z	e	17 48 41		Feeble
16	SHILLONG	Z	e	14 52 16 52 31 52 46 52 51		Slight, near	17	SHILLONG	Z	eP Pg s Sg	18 41 26 41 45 41 24 41 42	300	Slight
16	SHILLONG	Z	e	15 53 13 53 45	70	Slight	17	SHILLONG	Z	eP	18 41 33		Feeble
16	SHILLONG	Z	e	17 43 13		Slight, near	17	SHILLONG	Z	eP	18 41 31		Slight, phases not clear
16	SHILLONG	Z	e	17 43 13 43 13		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45		Slight
16	SHILLONG	Z	e	17 43 13		Slight, near	17	SHILLONG	Z	eP	18 41 33		Slight, distant
16	SHILLONG	Z	e	17 43 13		Slight, near	17	SHILLONG	Z	e(P)	20 06 37		Feeble, distant
16	SHILLONG	Z	e	17 43 13 43 44		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45		Slight, near
16	SHILLONG	Z	e	17 43 13 43 44		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45		Slight, compression
17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45 41 57		Tremor
17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, near
17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, local
17	SHILLONG	Z	e	18 41 33 41 45 41 57		Slight, near	17	SHILLONG	Z	e	18 41 33 41 45 41 57		Feeble
17	SHILLONG	Z	eP eS iSg	18 41 33 41 45 41 57	120	Slight	17	SHILLONG	Z	eP e e	07 33 40 36 31 36 46		Slight, phases not clear
	SHILLONG	Z	iP P* Pg iS s eSg	05 33 21 33 35 33 39 34 14 34 25 34 45	490	Slight		BOKARO	N, Z	eP eS Lq SS SSS Lr M	07 34 29 38 18 38 46 39 07 39 20 39 41 41 26	2320	Slight
	DEBRA DOR	N, Z	e	03 35 35		Tremor		POONA	Z	iP	07 36 46		Tremor
	POONA	Z	e	03 35 35		Tremor		BOMBAY	E	e	07 41 11 43 11 44 41		Feeble
17	SHILLONG	Z	e	15 59 42		Slight							
17	SHILLONG	Z	e	15 24 54 25 25		Slight, near							
17	SHILLONG	Z	e	15 26 08 26 51		Slight, near							

DATE	STATION	COMPT	PHASE	G. M. Y. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	C. M. T. h. m. s.	Δ km	REMARKS	
January 1955							January 1955							
20	HYDERABAD Contd.	E	M	07 44 21		Per. = 12 secs $\Delta u = 2$	22	SHILLONG	Z	eP Pg Sg	18 51 54 51 57 52 16	170	Slight	
20	SHILLONG	Z	Pg Sg	14 06 20 06 31	100	Slight	22	SHILLONG	Z	iP	20 09 34		Feeble	
20	DEHRA DUN	N,E	i	18 00 26		Tremor	22	SHILLONG	Z	i	20 18 11		Tremor	
	SHILLONG	Z	Pg Sg	18 07 02 07 14	100	Slight	22	SHILLONG	Z	e	21 47 36		Tremor	
20	SHILLONG	Z	e	18 20 14		Feeble	23	SHILLONG	Z	e	15 20 43		Tremor	
21	BOMBAY	N,E E N	e(?) e e	01 41 29 46 07 46 16		Phases could not be identified.	23	MADRAS	E	e	22 23 32		Phases not clear	
	NEW DELHI	E N,E N N,E	eP PP Lq SS SSS M	01 41 51 41 59 43 20 43 40 43 51 44 26	940	Slight	Epc: Near Southwest Coast of Java. - H = 22h 21m 14s (U.S.C.G.S) 74°S, 105°E. - H = 22h 21m 17s (B.C.I.S)							
	DEHRA DUN	N,E	e i	01 42 47 43 39		Slight, phases not clear	COLOMBO	F	P S L M	22 27 21 32 21 37 21 40 26	3370		Amp. = 0.3 mm	
	POONA	Z,E	e	01 45 07		Feeble, phases not clear	SHILLONG	Z	eP	22 23 09			Slight. Other phases not clear. Compression.	
	SHILLONG	Z	e	01 45 44		Feeble	POONA	N,E E N,E E	iP PP iS PS PPS SSS M?	22 29 00 30 39 31 12 35 09 35 13 35 23 39 00 43 37	4510	Slight		
	HYDERABAD	E	M	01 49 32			BOMBAY	E N E	iP eS eS ESS	22 29 08 35 20 35 23 39 04	4550	Slight		
	BOKARO	N,E	eP PP PPP Lq eS SS SSS M	01 46 39 46 50 46 58 49 00 49 11 49 28 49 41 50 45	1500	Slight	NEW DELHI	N	iP iS	22 29 32 36 05	4890	Moderate		
21	SHILLONG	Z	eP	11 52 22		Feeble	DEHRA DUN	N,E N	eP iP PcS iS PPS Lq M	22 29 41 31 21 34 54 36 21 36 38 40 23 45 45	5020	Slight		
21	SHILLONG	Z	iP	14 30 19		Slight. Compression	24	SHILLONG	Z	e	00 43 53		Tremor	
21	SHILLONG	Z	iP	14 31 42		Tremor	24	SHILLONG	Z	eP Lq S Lr/SS M	10 33 19 34 40 34 52 34 59 35 45	900	Slight	
21	SHILLONG	Z	e	18 08 58		Tremor	POONA	Z	e	10 36 33			Very feeble Phases not clear	
22	SHILLONG	Z	i	02 23 51		Tremor	BOKARO	N,E	e e e	10 38 07 38 43 38 56			Feeble	
22	SHILLONG	Z	eP	04 50 04		Slight, local. Phases not clear	24	SHILLONG	Z	eP Pg iS Sg	20 18 44 19 03 19 37 19 55	500	Slight	
22	Epc: 8°S, 67°E. Chagos Islands Region - H = 05h 28m 35s (U.S.C.G.S) 9°S, 68°E. - H = 05h 28m 28s (B.C.I.S)							24	SHILLONG	Z	eP Pg iS Sg	22 15 32 15 33 15 53	180	Slight
	BOMBAY	N E N E	eP eP PPP eS eS SS Lr	05 34 33 34 36 35 54 39 24 39 32 42 14 43 32	3300	Slight	25	SHILLONG	Z	iP	04 16 30		Slight, distant	
	SHILLONG	Z	e	05 36 21		Tremor	25	SHILLONG	Z	eP	15 00 46			Slight, phases not clear
	POONA	E	e?	05 36 34		Very feeble. Phases not clear	25	POONA	Z	e	15 01 17			Very feeble. Phases not clear
	KODAIKANAL	E	iP iS M	05 37 35 39 45 41 08	1280	Slight. Short distance	COLOMBO	E	L M	15 32 51 35 36			Amp. = 0.4 mm	
	MADRAS	E	Lr(?) M	05 39 09 42 15		Earlier phases not clear	25	SHILLONG	Z	e	20 28 36			Tremor.
	HYDERABAD	N E N	e M M	05 39 20 43 31 43 31		Per. = 11 secs $\Delta u = 4$								
	DEHRA DUN	N	e	05 42 27		Slight. Phases not clear								
22	SHILLONG	Z	e	13 44 54		Tremor								
22	SHILLONG	Z	iP	15 29 38		Slight. Compression								
22	SHILLONG	Z	iP	15 38 25		Feeble. Compression.								

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



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Director General of Observatories

- 2 -

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min
Bombay	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	$T_0 = T_g$ $= 7.0$	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	$T_0=0.72$ $T_g=0.45$	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	$T_0 = T_g$ $= 7.2$	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	$T_0=1.5$ $T_g=1.5$	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	$T_0=1.0$ $T_g=0.18$	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

 Office of the Director General of Observatories,
 Lodi Road, New Delhi, India, 1959.

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	
February 1955							February 1955							
01	SHILLONG	Z	e	03 30 32		Slight	02	SHILLONG	Z	e	20 55 33		Slight	
1	SHILLONG	Z	e	08 15 20		Slight, near				i	55 38			
		E	e	18 22			02	SHILLONG	Z	e	22 06 28		Slight, near	
		E,N	e	18 36						e	06 59			
			e	18 36						e	07 19			
01	SHILLONG	Z	e	08 32 34		Feeble	03	SHILLONG	Z	i	00 59 34		Slight	
01	SHILLONG	Z	e	10 14 02		Slight, near	03	SHILLONG	Z	e	01 47 29		Slight	
		N,E	e	17 42										
01	SHILLONG	Z	i	14 43 50		Slight	03	SHILLONG	Z	iPg	03 24 02	80	Slight	
01	SHILLONG	Z	e	17 16 52		Slight, local				iSg	24 12			
01	SHILLONG	Z	i	18 49 49		Slight	03	SHILLONG	Z	e	06 24 24		Slight	
01	Epc: 42°N, 142°E. Off the South Coast of Hokkaido Japan (U.S.C.C.S) - H = 19h 16m 02s 41.9°N, 142.6°E. h = 60 kms. - H = 19h 16m 12s Felt (C.M.O Japan)							03	SHILLONG	Z	e	06 44 03		Slight, near
	SHILLONG	Z,E	iP	19 24 18	4830	Slight		03	SHILLONG	Z	e	12 58 27		Slight
		N	eP							E,N	e(HP)	13 33 31		
		E	PcP	25 53			03	SHILLONG	Z	e	17 16 29		Feeble	
			PP	25 59			03	DEHRA DUN	N,E	e	18 27 44		Tremor	
			PPP	26 37			03	SHILLONG	Z	e	18 28 38		Slight	
		N,E	eS	30 47			03	SHILLONG	Z	e	21 30 28		Slight	
		E	PS	30 53			03	SHILLONG	Z	e	23 24 02		Slight	
			PPS	31 06			04	SHILLONG	Z	iPg	00 10 40	80	Slight	
			Lq	34 09						iSg	10 58			
			M	40 42			04	SHILLONG	Z,E	iP	04 07 48	200	Slight	
	BOKARO	N,E	eP	19 25 00		Slight, distant			N	eP				
			i	32 41					Z,N,E	Pg	07 54			
			e	32 45						iSg	08 15			
			e	32 49			04	COLOMBO	E	e	04 27 27			
			i	34 49						e	31 59			
			e	35 23						e	37 20		L indistinct. Time approximate Amp. = 5.5 mm	
	DEHRA DUN	N,E	eP	19 25 20		Feeble, phases not clear	04	SHILLONG	Z	e	05 22 27		Slight	
			i	33 10			04	Epc: 6°N, 37°E. South of Ethiopia H = 05h 20m 06s (I.C.I.S)						
	NEW DELHI	N,E	eP	19 25 29		Moderate		BOMBAY	E	e	05 28 17		Feeble	
		N	i	33 29						e	35 53			
			M	46 00				POONA	N	eP	05 28 33		Very feeble	
	POONA	Z	iP	19 26 28		Slight		MADRAS	E	e	05 42 34			
		N,E	e	27 03				HYDERABAD	E	M	05 42 45		Per. = 18 secs /b = 7 Per. = 17 secs /u = 6	
		N	e	28 58					N	M	43 07			
			e	35 15				SHILLONG	Z,E	eP	05 30 40	5980	Slight	
			e	35 31					E	PP	32 42			
			e	35 40						PPF	33 56			
			e	39 21					N,E	eS	38 14			
			e	42 10					E	SS	41 54			
			e	43 10						Lq	44 06			
			e	46 07					N,E	Lr	46 58			
			e	51 24						M	51 02			
	BOMBAY	N,E	e	19 26 33	7530	Slight	04	Epc: 17°S, 66°E. Mascarene Island Region. - H = 07h 21m 45s (Shillong) 17°S, 67°E. - H = 07h 21m 49s (U.S.C.G.S) 17°S, 66°E. - H = 07h 21m 48s (I.C.I.S) Magnitude = 6 1/2 - 6 1/4 (Praha), 6 (Kiruna)						
		E	e	35 31				KODAIKANAL	E	iP	07 27 55	3180	Moderate intensity	
			e	36 00						PP	28 49			
		N,E	e	36 44						iS	32 43			
		E	e	39 35						Lq	33 58			
		E	e	42 31						SS	34 10			
	COLOMBO	E	S	19 35 29						SSS	34 48			
			L	51 21						Lr	35 19			
			M	57 36		Amp. = 0.2 mm				M	37 40		Per. = 15 secs /u = 78	
01	SHILLONG	Z	i	20 28 05		Slight								
02	SHILLONG	Z	e	01 09 25		Slight, near								
			e	09 36										
			e	10 09										
02	SHILLONG	Z	i	05 29 14		Slight, near								
02	SHILLONG	Z	e	06 12 23		Slight								
02	SHILLONG	Z	i	06 34 33		Slight								
02	NEW DELHI	N,E	ePg	10 14 17	20	Slight								
			iSg	14 20										
02	SHILLONG	Z	iP	10 51 13	210	Slight								
			eSg	51 43										
02	SHILLONG	Z	e	20 50 56		Slight								

DATE STATION COMPT PHASE G. M. T. Δ REMARKS

February 1955

05 BOKARO N,E iP 20 51 45 6390 Moderate
 Contd. PP 52 34
 PPP 55 13
 IS 59 43
 PS 59 52
 PPS 21 00 02
 ScS 01 13
 i? 01 32
 SS 03 37
 SSS 05 45
 Lq 06 07
 Lr 09 09
 M 14 07

DEHRA DUN N,E eP 20 51 45 6630 Moderate
 N PP 53 59
 PPP 55 30
 eS 59 55
 PS 21 00 07
 PPS 00 19
 SS 04 00
 Lq 07 25
 Lr 10 13
 M 14 07

NEW DELHI N,E eP 20 52 01 6720 Moderate
 N S 21 00 16
 M 14 05

HYDERABAD N,E iP 20 52 42 7400
 E PP 55 12
 iS 21 01 33
 ScS 02 42
 N,E SS 06 09
 E M 19 29 Per. = 15 secs. Au = 4

MADRAS E iP 20 52 58 7640 Slight, other
 PcP 53 15 phases not clear
 PP 55 32
 PPP 57 22
 S 21 02 02
 i 02 14
 PS 02 39
 SS 06 41

POONA Z iP 20 53 01 7780 Moderate
 N PcP 53 21
 E PPP 57 23
 N,E eS 21 02 11
 E PS 02 41
 PPS 03 02
 N SS 06 52
 SSS 09 55
 M 20 53

BOMBAY N,E iP 20 53 07 7780 Slight
 E PP 55 41
 PPP 57 37
 iS 21 02 17
 N eS 02 20
 E PPS 03 00

COLOMBO E P 20 53 23
 S 21 02 52
 L 23 56
 M 31 36 Amp. = 0.5 mm

05 SHILLONG Z e 21 08 30 Slight

05 SHILLONG Z i 21 19 34 Slight, local

05 SHILLONG Z i 21 21 23 Slight

05 SHILLONG Z e 21 39 36 Slight

05 SHILLONG Z i 21 55 43 Slight

05 SHILLONG Z e 23 24 07 Slight
 e 24 59

05 SHILLONG Z i 23 36 46 Slight

06 SHILLONG Z e 01 06 53 Slight

06 SHILLONG Z i 02 16 48 Slight, local

06 BOMBAY N,E eP 02 39 17 8050 Slight
 E PP 41 53
 eS 48 41
 PS 49 16

DATE STATION COMPT PHASE G. M. T. Δ REMARKS

February 1955

06 POONA Z iP 02 39 18 Tremor
 Contd.

06 COLOMBO E L 03 17 00
 M 26 50 Amp. = 0.3 mm

06 Epc: Near South Coast of Sumatra
 - H = 04h 34m 55s (U.S.C.G.S)

SHILLONG Z iP 04 41 08 Slight

MADRAS E eS 04 45 00 Other phases
 not clear

BOMBAY E eS 04 47 32 Feeble
 e 51 02

06 SHILLONG Z i 06 08 13 Slight, local
 iSg 08 23

06 SHILLONG Z i 07 24 21 Slight

06 SHILLONG Z e 08 24 51 Slight

06 SHILLONG Z i 10 24 46 Slight

06 SHILLONG Z i 12 41 15 Slight, local

06 Epc: 40°N, 78°E. Sinkiang Province, China;
 - H = 14h 51m 55s (Shillong)
 Western Sinkiang Province;
 - H = 14h 51m 53s (U.S.C.G.S)
 40°N, 78°E. - H = 14h 51m 58s (E.C.I.S)

DEHRA DUN N,E eP 14 54 19 1060 Slight, other
 Lq 56 03 phases not clear
 iS 56 07

NEW DELHI N,E eP 14 54 39 1350 Slight
 Lq 56 47
 N SS 57 11
 N,E SSS 57 24
 i 57 35

SHILLONG Z eP 14 56 13 Slight

06 POONA Z iP 14 56 53 Feeble, phases
 N i 15 01 07 not clear
 E i 02 01
 i 03 18
 i 03 31

BOKARO N,E iS 14 59 56 Slight
 e 15 02 54

BOMBAY E eS 15 01 00 Slight

06 SHILLONG Z i 18 09 13 Slight, local

06 Epc: 50°N, 180°E. Adreanoff Islands, Aleutian
 Islands. - H = 18h 17m 05s (U.S.C.G.S)

SHILLONG Z iP 18 28 18 Slight

06 SHILLONG Z i 18 48 07 Slight, local

06 SHILLONG Z iP 19 49 15 390 Slight, local
 Lq 49 47
 iS 49 57

06 Epc: 100 miles off South Coast of Kamchatka;
 - H = 22h 35m 48s GMT (Shillong)
 52°N, 160°E; - H = 22h 35m 52s (B.C.I.S)

SHILLONG Z eP 22 45 41 Slight

06 SHILLONG Z i 22 56 39 Slight, local

07 SHILLONG Z i 00 19 38 Slight

07 SHILLONG Z e 07 19 52 Slight, local

07 SHILLONG Z e 08 30 52 Slight

07 SHILLONG Z e 13 18 57 Slight

07 DEHRA DUN N,E i 14 38 29 Feeble, phases
 i 39 56 not clear

SHILLONG Z e 14 40 49 Slight

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	
February 1955							February 1955							
07	SHILLONG	Z	e	16 42 36		Very slight, local	POONA	Z	iP	00 14 39	7870		Slight	
07	SHILLONG	Z	iPg iSg	18 31 39 31 48	30	Slight, local	N	iS PS PPS ScS SKS2 M	23 54 24 18 24 32 24 44 41 46 42 13					
07	SHILLONG	Z	e	20 04 44		Very slight								
07	SHILLONG	Z	e	22 43 33		Very slight								
09	SHILLONG	Z	i	10 10 03		Slight, local	11	DEHRA DUN	N,E	e	18 45 49		Tremor	
09	Epc: 32.5°N, 82.5°E. In Tibet. - h = 10h 35m 24s (Shillong)						12	Epc: Pakistan. Foreshock. Felt at Quetta - H = 00h 59m 45s (U.S.C.G.S)						
	NEW DELHI	N	iP iPg i i iS Lr S* Sg	10 37 16 37 43 38 02 38 10 38 27 38 35 38 47 39 08	680	Slight	DEHRA DUN	N,E	iP	01 02 15			Feeble. Phases not clear	
	SHILLONG	Z,E	iP PPP Lq eS SS M	10 38 04 38 19 39 52 40 07 40 17 41 32		Slight, compression First movement East(?)	BOZARO	N,E	ePP e e e	01 04 16 05 08 07 23 10 08			Very slight	
	HYDERABAD	E N F	S L M M	10 42 00 44 10 45 17 45 34		Per. = 6 secs / $\Delta = 5$	SHILLONG	Z	P	01 04 48				
	POONA	Z	iP PP PPP Lq Z,N Z SSS Lr PcP M PcS/ScP	10 39 23 39 41 39 51 42 23 42 23 42 43 42 55 43 07 44 15 44 29 47 39	1310	Slight	BOMBAY	E N,E	eSP e M	01 05 27 06 53 07 00				
	BOMBAY	N,E E N N,E N	eP PP iS eS SS SSS Lr M	10 39 25 39 31 42 19 42 27 42 49 43 05 43 07 44 15 44 29 47 39	1830	Slight. (Δ from Milne-Shaw N-S component)	POONA	Z	iS i i	01 05 39 05 59 06 47				
	MADRAS	E	eP PP PPP S Lq SS SSS Lr M	10 40 14 40 29 40 42 43 45 43 55 44 13 44 27 44 47 46 20	2130	Slight	MADRAS	E	e e	01 09 24 11 21			Slight. Record disturbed	
	COLOMBO	E	L M	10 48 00 50 06		Amp. = 1.0 μ m	12	DEHRA DUN	N,E	e	13 30 13		Tremor	
09	SHILLONG	Z	iP	11 11 05		Slight, compression	12	MADRAS	E	e	14 33 25		Tremor	
09	SHILLONG	Z	Pg Sg	14 30 56 31 01	40	Slight, local	BOZARO	N	e e e	14 33 26 34 21 35 58			Very slight	
09	SHILLONG	Z	e	15 30 26		Tremor	POONA	Z,E E	e? e	14 35 19 37 52			Very feeble. Phases not clear	
09	SHILLONG	Z	eP	19 04 19		Slight, distant	BOMBAY	E	e e e	14 35 23 36 29 38 39			Feeble. Not recorded in Milne-Shaw	
09	SHILLONG	Z	i	19 52 46		Slight, near	SHILLONG	Z	P	19 16 00				
10	Epc: 50°N, 156°E. Northern Kurile Islands; - h = 60 km Ca; - H = 00h 03m 21s (U.S.C.G.S) 52°N, 156°E. - h = 60 km Ca; - H = 00h 03m 31s (B.C.I.S)						13	SHILLONG	Z	iP	02 34 47			Slight, near
	SHILLONG	Z E	iP PP PPP eS Lq Lr M	00 12 50 14 47 15 53 20 04 25 22 26 32 30 39	5610	Slight rarefaction.	13	SHILLONG	Z	e	03 01 58			Feeble
							13	SHILLONG	Z	e	05 11 00			Slight
							13	SHILLONG	Z	e	16 24 53			Slight
							13	SHILLONG	Z	e	17 26 25			Slight
							POONA	Z	iP	17 28 09			Tremor	
							13	SHILLONG	Z	e	19 45 10			Feeble
							13	SHILLONG	Z	e	21 14 59			Slight, near
							14	SHILLONG	Z	e	00 47 43 48 14			Slight, near
							14	CHATRA	Z	eP iS	08 21 09 21 31	180		Feeble
							14	SHILLONG	Z	eP	15 00 14			Slight, distant
							14	SHILLONG	Z	e	15 38 13			Slight
							14	Epc: 4°N, 127°E. In the Pacific Off Southeast Mindanao Island. - H = 16h 53m 14s (Shillong) 2°N, 126°E. Molucca Passage. - H = 16h 53m 09s (U.S.C.G.S) 3°N, 126°E. - H = 16h 53m 17s (B.C.I.S) Felt at Mambajao (Press report Manila)						
	SHILLONG	Z,N,E N,E	iP PP PPP eS Lq Lr M	17 00 52 02 29 02 56 06 58 09 58 10 29 11 18 15 29	4450	Moderate								

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km						h. m. s.	km	
February 1955							February 1955						
18 DEHRA DUN (Contd)	N, E N	eP PP PPP P* Pg Lq iS SS Lr SSS Sg/M	22 50 57	1130	Moderate		19 SHILLONG	Z	e	19 38 46			Feeble
			51 04				19 SHILLONG	Z	eP	20 37 16			Moderate, distant. Phases doubtful.
			51 13				20 SHILLONG	Z	iP	00 58 19			Moderate, distant Phases doubtful
			51 22				20 SHILLONG	Z	eP	07 55 16			Slight, distant
			51 48				20 SHILLONG	Z	e	08 04 42			Slight
			52 43				20 SHILLONG	Z	e	08 34 14			Feeble, distant
			52 53				20 SHILLONG	Z	e	09 43 50			Feeble.
			53 06				20 SHILLONG	Z	e	12 28 07			Feeble
			53 15				20 SHILLONG	Z	eP	18 48 22			Slight, distant
			53 19				20 SHILLONG	Z	iP	20 25 35			Moderate, distant. Phases doubtful.
			54 06				20 SHILLONG	Z	iP	22 43 10			Moderate, distant Phases doubtful
BOMBAY	N, E E N E E E N, E N E N, E E N, E E N, E	eP PP PPP e e e Lq eSg iSg SS SSS Lr M	22 51 39	1400	Moderate		20 SHILLONG	Z	eP	22 56 04			Slight, distant
			51 47				21 SHILLONG	Z	ePg P* eSg S	00 45 34 45 38 45 42 45 46	70		Slight, local
			51 55				21 SHILLONG	Z	iP	05 16 45			Slight, distant
			52 04				21 SHILLONG	Z	eP	11 27 34			Moderate, distant Phases doubtful
			52 15				21 Epc: Probably in the Hindukush.						
			52 28				DEHRA DUN	N, E	e	14 08 42			Feeble. Phases not clear
			52 50						i	10 11			
			53 54				NEW DELHI	N, E E N, E E N, E	eP P* Pg Lq iS SSS S* Sg	14 08 54 09 13 09 39 10 30 10 40 11 02 11 14 11 42	1030		Slight
			54 02				SHILLONG	Z	eP	14 11 16			Moderate. Phases not identifiable
			54 16				21 SHILLONG	Z	iP i i	16 32 45 34 11 34 35			Moderate, distant. Phases not identifiable.
			54 27				21 SHILLONG	Z	eP	18 53 02			Slight, distant
			54 32				21 SHILLONG	Z	eP	19 56 39			Slight, distant
			56 00				21 SHILLONG	Z	e	23 06 42			Slight, local
POONA	Z E Z, N, E	iP PP PPP Lq iS SS SSS Lr M ScS	22 51 46	1530	Moderate		21 SHILLONG	Z	e	23 29 40			Feeble
			51 52				22 SHILLONG	Z	iP	06 12 50			Slight
			52 01				22 SHILLONG	Z	P	13 32 32			Slight.
			54 15				22 SHILLONG	Z	iP	14 54 14			Slight
			54 21				22 DEHRA DUN	N, E	e	15 11 15			Feeble. Phases not clear
			54 40						i	12 18			
			54 53				NEW DELHI	N, E	eP iS i	15 11 33 12 54 13 11	780		Slight
			54 59				22 SHILLONG	Z	iP	17 35 24			Slight
			56 17				22 SHILLONG	Z	iP	21 34 43			Slight
			56 36				23 SHILLONG	Z	iP	05 10 34			Slight
			58 02				23 SHILLONG	Z	iP	06 36 53			Rarefaction. Slight.
HYDERABAD	E	eP iS SS	22 52 32	1760	Feeble		23 SHILLONG	Z	iP	11 53 37			Slight
			55 29										
			55 44										
BOKARO	N, E	eP PP PPP iS/Lq SS SSS Lr M	22 52 45	1850	Moderate								
			52 53										
			53 04										
			55 51										
			56 10										
			56 25										
			56 36										
			58 02										
MADRAS	E	iP PP PPP S Lq SS SSS Lr M	22 53 22	2430	Moderate								
			53 46										
			53 58										
			57 20										
			57 35										
			57 57										
			58 17										
			58 48										
			23 00 32										
SHILLONG	Z, N, E E	iP PP PPP iS Lq SS SSS Lr M	22 53 34	2780	Moderate								
			54 04										
			54 15										
			57 42										
			58 06										
			58 25										
			58 39										
			59 12										
			23 00 59										
COLOMBO	E	eP S L M	22 54 18	2940									
			58 50										
			23 03 35										
			06 02										
19 SHILLONG	Z	e i	04 04 11			Distant, slight.							
			04 51										
19 SHILLONG	Z	iP	06 00 46			Feeble							
19 SHILLONG	Z	e	07 00 33			Slight Phases doubtful.							
19 SHILLONG	Z	iP	15 28 27			Moderate, distant. Phases not identifiable.							
POONA	Z	eP	15 30 51			Tremor							
19 SHILLONG	Z	e	17 47 31			Slight.							

DATE	STATION	COMPT	PHASE	G. V. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS		
February 1955							February 1955								
23	SHILLONG	Z	iP	16 53 40		Slight.	23	DEHRA DUN	N,E	eP	23 15 21	710	Slight.		
23	SHILLONG	Z	e	18 21 18		Tremor.	(Contd)		N	PP	15 28				
23	Epc: 34°S, 54½°E. Indian Ocean; - H = 18h 31m 45s (U.S.C.G.S) Magnitude = 6 (Kiruna)										PPP	15 35			
	KODAIKANAL	E	eS	18 47 52		Tremor. Phases not clear				iS	16 35				
	POONA	Z	eP	18 41 25	6310	Slight		POONA	Z	eP	23 16 57	1640	Slight.		
		E	PcP	42 03						PP	17 10				
			PP	43 25					E,Z	PPP	17 18				
		N,E	PcS	45 58						i	19 23				
		E	eS	49 18					Z	i	19 28				
			PS	49 25					Z,E	Lq	19 40				
			PPS	49 37					E	eS	19 43				
			ScS	50 57						SS	19 57				
			SS	53 05						SSS	20 09				
			Lq	55 32						Lr	20 18				
			Lr	58 24					Z	M?	21 39				
			M?	19 03 15						PcP	21 47				
	BOMBAY	E	eP	18 41 28	6220	Slight.		BOMBAY	E	eP?	23 17 25		Slight.		
		N	eP	41 31						PPP	17 45				
		E	PcP	42 08						iS	20 29				
			PP	43 30						i	20 30				
		N,E	PcS	46 07						SS	20 52				
		E	eS	49 16					N,E	SSS	21 08				
			eS	49 19					E	Lr	21 21				
			PS	49 27						M	23 23				
			e	50 00											
			e	51 10											
			SS	53 14											
	HYDERABAD	N	eP	18 41 45	6220			HYDERABAD	N	M	23 21 36		Per. = 11 secs /u = 3.		
			iS	49 33											
			L	58 49											
			M	19 01 48		Per. = 16 secs /u = 7									
	SHILLONG	Z	iP	18 42 52	7800	Slight		24	SHILLONG	Z	e	00 52 48		Tremor.	
		E	PP	45 04											
			eS	52 03											
			PS	52 27											
			PPS	52 41											
			SS	56 35											
			Lq	19 01 27											
			M	08 33											
	BOKARO	N,E	eP	18 42 55		Moderate, distant.		24	SHILLONG	Z	e	04 48 05		Tremor.	
			iS?	51 25											
23	SHILLONG	Z	iP	20 09 32		Slight		24	SHILLONG	Z	iP	06 28 09		Slight	
23	Epc: 28°N, 85°E. Nepal; - H = 23h 13m 25s (Shillong) 28°N, 85½°E. - H = 23h 13m 30s (U.S.C.G.S)								24	CHATRA	Z	iPg	06 42 39	80	Feeble
	CHATRA	Z	iP ₀	23 14 06	250	Slight					iSg	42 40			
		E	iP ₀												
		E	iS	14 35											
	BOKARO	N,E	eP	23 14 41	380	Slight, near		24	DEHRA DUN	N,E	e	08 27 53		Tremor	
			PP	14 47											
			PPP	14 52											
			iS	15 22											
			M/Sg	15 39											
	SHILLONG	Z	iP	23 15 00	670	Compression, slight.			SHILLONG	Z	iP	15 16 50	650	Slight	
		E	eP	15 01							Lq	17 45			
			PPP	15 14							S	17 58			
			Lq	15 59							Lr	18 04			
			iS	16 10							SSS	18 20			
			Lr	15 14							Sg	18 28			
			SSS	16 33											
			N	16 40											
	NEW DELHI	E	eP	23 15 21	780	Slight.		DEHRA DUN	N,E	eP	15 17 10	730	Slight.		
			P*	15 39							PP	17 17			
		N,E	Pg	15 50							Pg	17 40			
			i	16 21							Lq	18 13			
			iS	16 42							iS	18 26			
			i	16 57							Lr	18 33			
		N	Sg	17 27							SS	18 38			
											SSS	18 46			
											Sg/M	19 06			

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
February 1955							February 1955						
24	NEW DELHI (Contd)	E	eP	15 17 11	780	Slight	26	MADRAS (Contd)	S	iP	00 36 48		Other phases not identifiable.
		N,E	PPP	17 24						i	37 25		
			Pg	17 51				SHILLONG	Z,E	iP	00 36 55		Rarefaction
			i	18 17					E	e	37 52		
			iS	18 32						e	38 47		
			Lr	18 40						e	39 10		
			S*	18 55						e	42 33		
			Sg	19 18						iS?	42 44		
	HYDERABAD	N	eP	15 18 34	1830					sS?	44 38		
			eS	21 38						e	46 09		
			SS	21 57						e	46 45		
			M	23 22		Per. ≈ 9 secs A _u ≈ 4		POONA	Z	iP	00 37 58	3490	Slight
										PP	39 00		
	POONA	Z	eP	15 18 47	1640	Slight				PPP	39 16		
			PP	18 59						eS	43 06		
			PPP	19 07						SS	44 53		
			eS	21 33						SSS	45 08		
			Lr	22 19						Lr	46 07		
			M?	23 37						M?	48 40		
	BOMBAY	N,E	eP	15 19 00	1710	Slight		BOMBAY	N	eP	00 38 08	3610	Slight
		E	eP	19 04					E	iP			
		N,E	eS	21 52					E	PP	39 21		
		E	SSS	22 23					N,E	PPP	39 33		
			Lr	22 33					E	PcP	40 43		
		N,E	i	23 00					N,E	iS	43 23		
		E	M	25 00					E	SS/Lg	45 21		
	MADRAS	E	iP	15 19 04	1640	Slight				SSS	45 59		
			PP	19 16						i	46 40		
			PPP	19 25						Lr	47 05		
			S	22 08									
			SS	22 32									
			SSS	22 45									
			Lr	22 57									
			PcP	23 43									
			M	24 50									
24	CHATRA	Z	iP	15 23 04	260	Slight	26	SHILLONG	Z	e	10 23 23		
		E	iS	23 34			26	SHILLONG	Z	eP	10 40 53		
24	KODAIKANAL	E	e?	15 24 01		Tremor	26	SHILLONG	Z	e	12 02 41		
24	CHATRA	Z	iP	15 25 --			26	SHILLONG	Z	e	18 09 07		
			iS	26 20			26	SHILLONG	Z	e	18 37 28		
24	CHATRA	Z	iP	15 34 14	230	Feeble	26	SHILLONG	Z	eP	19 34 37		
			iS	34 41			27	SHILLONG	Z	e	05 01 00		
24	CHATRA	Z	iP	15 46 34	250	Feeble	27	SHILLONG	Z	e	07 15 24		
			iS	47 03			27	SHILLONG	Z	e	09 49 18		Tremor
24	SHILLONG	Z	e	15 47 40		Slight		SHILLONG	Z	e	09 49 36		
24	CHATRA	Z	iP	15 56 25	230	Feeble	27	SHILLONG	Z	e	10 30 46		
			iS	56 52			27	SHILLONG	Z	e	10 41 57		
24	CHATRA	Z	iP	16 04 22	240	Slight	27	SHILLONG	Z	e	12 18 15		
		E	iS	04 50			27	BOMBAY	E	e	15 18 37		
	SHILLONG	Z	eP	16 05 13		Slight				e	22 04		
	DEHRA DUN	N,E	e	16 06 52		Tremor	27	SHILLONG	Z	e	16 56 05		
24	CHATRA	Z	iP	16 20 49	250	Slight	27	CHATRA	Z	eP	19 18 16	240	Slight
			iS	21 18						iS	18 44		
	SHILLONG	Z	e	16 21 45		Slight	27	SHILLONG	Z	e	19 19 17		
24	CHATRA	Z	iP	17 37 21		Slight	27	SHILLONG	Z	e	19 25 06		
		E	iS	37 49			27	SHILLONG	Z	e	19 28 24		
24	SHILLONG	Z	iP	17 38 16		Slight	27	Epc: 27°S, 176°W; Kermadec Islands Region;					
	DEHRA DUN	N,E	e	17 39 50		Tremor		- H = 20h 43m 24s (U.S.C.G.S)					
	POONA	Z	i	17 44 15		Tremor		24°S, 175°W; - H = 20h 43m 23s (B.C.I.S)					
25	SHILLONG	Z	iP	11 18 38		Slight.		Felt in Raoul Island, Wellington (Newzealand)					
25	SHILLONG	Z	iP	13 51 18		Slight.		Magnitude = 8.1 (Praha), 8 (Pasadena, Berkeley),					
25	SHILLONG	Z	e	17 01 35		Tremor		7.9 to 8 (Roma), 7.9 (Wellington),					
26	Epc: 0°, 102°E. Sumatra; H=00h 31m 14s (USCGS)							7% (Kiruna), 7% (Uppsala).					
	COLONBO	E	P	00 36 22	2230								
			S	40 22									
			L	45 22									
			M	49 22		Amp. ≈ 0.2 mm							

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
1955				h. m. s	km		1955				h. m. s	km	
February 1955	27 KODAIKANAL (Contd)	E	ePKP ₁ e e e e M	20 56 42 21 00 21 17 36 27 06 31 21 35 42 43 12		Moderate Per. = 24 secs A _u = 111	February 1955	27 BOMBAY Contd.	E N, E E N E N, E N E	ePKP ₁ PPP ₁ PS PPS i e eSS ₀ iSS ₀ i e Lr Lr M M	20 58 33 21 02 21 09 23 10 27 13 13 13 18 15 22 20 04 20 30 33 12 33 34 47 56 51 19	12710	Moderate Per. = 25 secs A _u = 66 Moderate
	SHILLONG	Z N	ePKP ₁ SKS ₁ iS ₁ PS PPS SS SSP M	20 57 19 21 07 56 08 31 10 11 11 04 15 34 16 34 42 11		Moderate	NEW DELHI	N	ePKP ₁ e SKS iSKKS i iPS PPS i SS	20 58 42 21 01 34 09 08 10 28 11 19 13 13 14 21 15 27 19 32		Moderate	
	COLOMBO	E	ePKP ₁ SKS ₁ L M	20 57 36 21 08 01 27 01 39 51		Per. = 8 secs Amp. = 8.0	28 SHILLONG	Z	e	06 47 50			Slight
	BOKARO	N, E	iPKP ₁ PP ₁ PPP SKS ₁ SKKS ₁ iS PS PPS SS SSP SSS Lq Lr M	20 57 50 21 01 33 03 41 08 07 08 31 08 54 10 09 10 57 15 03 15 29 18 54 24 05 28 07 32 57		Moderate, distort. Per. = 22 secs A _u = 79	28 SHILLONG	Z	e	08 19 47			Feeble
	MADRAS	E	iPKP ₁ PP ₁ PPP SKS S PPS	20 57 56 21 01 45 04 05 08 10 08 58 11 37		Moderate	28 SHILLONG	Z	e	14 04 02			Slight
	HYDERABAD	E	PKP ₁ PP ₁ SKS iS PPS SS PcP/PPK SSS ² SKKS Lq Lr M	20 58 18 21 02 36 08 59 10 00 12 58 16 48 18 12 21 51 25 18 27 41 32 07 41 06		Per. = 28 secs A _u = 19	28 SHILLONG	Z	e	15 02 18			Slight
	POONA	E	PKP ₁ PP ₁ PKS ₁ PPF ₁ SKS ₂ SKKS ² SKKS PS SKSP PPS SS SSS Lq Lr M	20 58 20 59 32 21 01 46 02 02 04 59 06 19 06 24 08 58 09 07 10 14 15 08 19 14 27 51 33 27 41 46		Per. = 27 secs A _u = 102	28 SHILLONG	Z	e	15 21 57			Slight
	DEHRA DUN	N, E N	ePKP PP PPP iSKS PS PPS SS SSS Lq Lr M	20 58 28 21 01 48 03 46 09 07 10 12 10 46 14 54 18 46 22 42 26 45 33 59		Moderate	28 Epc: 11°S, 66½°E. Indian Ocean; - H = 20h 42m 31s (U.S.C.G.S) 11.5°S, 65°E; - H = 20h 42m 25s (Shillong) 12°S, 67°E; - H = 20h 42m 33s (B.C.I.S)	COLOMBO	E	P S L M	20 47 36 51 57 54 41 56 36	2770	Amp. = 1.5 mm
							KODAIKANAL	E	iP PPP iS Lq Lr M	20 48 01 49 01 52 28 53 22 54 30 56 49	2850	Slight Per. = 9 secs A _u = 12	
							MADRAS	E	iP PP PPP PcP S Lq SS SSS ScP Lr M	20 48 27 49 08 49 30 51 31 53 15 54 12 54 28 54 42 55 12 55 31 57 41	3190	Moderate	
							POONA	Z N	iP PP PPP eS SSS Lr M	20 48 49 49 50 50 01 53 51 55 55 57 02 59 21	3400	Moderate	
							BOMBAY	N, E E N, E E N, E E E N	iP PP PPP e eS ₀ iS ₀ ScP SS/Lq Lr Lr M	20 48 55 50 01 50 17 52 47 54 03 54 03 55 01 56 03 57 35 57 00 21 03 47	3490	Slight Per. = 11 secs A _u = 4	

DATE	STATION	COMPT PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT PHASE	G. M. T.	Δ	REMARKS
			h. m. s.	km					h. m. s.	km	
February 1955						February 1955					
20	HYDERABAD Contd.	E N E	ii PP IS SS Lq Lr	20 49 06 50 01 54 15 56 53 56 28 57 21	3510	28	NEW DELHI (Contd)	N,E N	e eP iS SS M	20 50 18 56 31 59 13 21 04 22	4550 Moderate
		N E	Lr M M	58 56 59 13			DEHRA DUN	N,E N	eP PP PPP iS PS PPS SS Lq SSS Lr M	20 50 37 52 19 52 53 57 06 57 16 57 25 21 00 15 00 52 01 03 02 27 06 17	4820 Moderate
					Per=12 secs Au = 9						
	BKARO	N,E	IP PP PPP IS PS PPS SS Lq SSS Lr M	20 50 11 51 42 52 18 56 20 56 27 56 36 59 09 59 20 59 52 21 01 07 04 20	4480 Moderate		SHILLONG	Z N	IP iS SS Lq	20 50 45 57 27 21 00 29 10 12	5050 Slight
					Per=19 secs Au = 18						

(Earthquake Reports)
(Non Instrumental Reports)

The following table contain a list of earthquakes that were reported by Voluntary Observers from various stations during the month of February 1955.

Place	Date in G. M. T	Time in G. M. T h. m.	Duration of shock in seconds	Intensity in R.F. scale	No. of shocks	Remarks
GAUHATI	17	03 16	3	IV	1	--
JODHPUR	19	03 35	2	IV	2	--

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



Published under the direction of

Shri S. Basu, M.Sc., F.N.I.,

Director General of Observatories

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min.
Bombay	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	To = Tg = 7.0	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	To=0.72 Tg=0.45	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	To = Tg = 7.2	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	To=1.5 Tg=1.5	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	To=1.0 ^s Tg=0.18	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
01	Dehra Dun	N,E	e i	00	18	28 38		Feeble. Phases not clear.
	New Delhi	E	eP Pg iS Sg SSS	00	18	48 51 09 11 27	175	Slight.
01	Shillong	Z	eP	03	34	22		Slight, near.
01	Epc: 65° N, 133° W; Yukon (Canada) - H = 04h 42m 59s (U.S.C.G.S) Magnitude = 6½ (Kiruna); 6½-6½ (Pasadena); 6½ (Uppsala); 6 (Skalnate Pleso). Felt: Aklavik, Goodhope (Canada).							
	Dehra Dun	N,E N	eP PT PPP iS PS PPS SS SSS Lq Lr M	04	55	21 58 21 00 13 05 30 06 25 06 47 10 55 14 24 17 48 21 19 28 13	9000	Moderate.
	Shillong	Z,N,E N,E E N N,E E N,E	iP PP PPP SKS iS PS PPS SS Lq Lr M	04	55	23 58 36 00 32 05 36 05 43 06 36 07 04 11 44 17 29 21 13 28 26	9270	Moderate. Per. = 15 Secs. /u = 10.7
	New Delhi	N,E N	eP PP eS PS SS M	04	55	27 58 39 05 05 35 06 38 10 47 27 30	8980	Moderate.
	Kodaikanal	E	e?	04	55	45		Remor.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
01 Contd.	Bokaro	N,E	iP	04	55	45	9890	Moderate. Distant.
			PP		59	02		
			PPP	05	00	58		
			SKS ₁		05	56		
			SKKS ₁		06	08		
			iS		06	32		
			PS		07	08		
			PPS		08	15		
			SS		12	09		
			SSP		12	39		
			SSS		15	36		
			Lq		20	28		
			Lr		24	47		
M		32	09					
Poona	Z	N	iP	04	56	19	1053	Moderate.
			PP	05	00	05		
			SKS ₁		06	50		
			eS		07	31		
			SS		13	51		
			M		36	09		
Hyderabad	N,E	N	P	04	56	20	10320	
			PP	05	00	05		
			e		03	52		
			SKKS		06	49		
			SKKS		06	54		
			S		07	25		
			PS		08	46		
			SS		13	45		
			Lq		21	01		
			Lr		25	49		
M		33	59					
								Per.= 18 Secs. u = 10
Bombay	N,E	E	eP	04	56	21	10390	Moderate.
			PP	05	00	04		
			iS		07	28		
			SS		13	55		
			M		37	47		
								Per.= 15 Secs. u = 10.2
Madras	E	E	eP	04	56	32	11110	Moderate.
			PP	05	00	28		
			PPP		02	46		
			SKS		07	12		
			SKKS		07	35		
			eS/ScS		08	04		
			PS		09	35		
			PPS		10	24		
			SS		14	53		
			SSP		15	14		
			SSS		18	50		
			M		33	11		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
01	Shillong	Z	e	05	11	24		Slight.
01	Shillong	Z	eP	09	00	45		Slight.
01	Shillong	Z	iP					
		N,E	eP	14	14	48		Slight.
			e		25	06		
	Dehra Dun	N,E	e	14	14	49		Tremor.
01	Bokaro	N,E	e	14	23	36		Very slight.
			i		25	40		
01	Shillong	Z,E	eP	14	49	46	4720	Slight.
		E	PP		51	26		
			PPP		52	01		
			eS		56	09		
			Lq		59	32		
			SSS		59	54		
		N,E	M	15	05	45		
01	Bokaro	N,E	iP	14	50	33		Slight.
			e		53	20		
			e		55	35		
	Madras	E	iP	14	51	40	2170	Slight.
			PP		51	58		
			PPP		52	07		
			S		55	15		
			Lq		55	28		
			SSS		56	00		
			Lr		56	29		
			M		57	54		
	Bombay	E	eP	14	52	09	7200	Slight.
			eS		15	00	50	
	Hyderabad	E	M	15	20	03		Per. = 12 Secs. μ = 2
01	Shillong	Z	eP	14	51	31		Slight.
01	Shillong	Z	e	15	44	30		Feeble.
01	Epc: 2° S, 69° E; Near Maldiva Islands, Indian Ocean;							
	- H = 17h 18m 55s (Shillong)							
	- H = 17h 18m 55s (U.S.C.G.S).							
	Colombo	E	S	17	22	21		
			L		23	00		
			M		27	56		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS				
				h.	m.	s						
<u>Mar.</u>												
1955												
01 Contd.	Kodaikanal	E	eP	17	22	30	2850	Slight.				
			PPP		22	54						
			S		25	30						
			Lq		25	42						
			Lr		26	03						
			M		27	18						
Madras	E		iP	17	23	14	2180	Slight.				
			PP		23	32						
			PPP		23	41						
			eS		26	50						
			Lq		26	58						
			SS		27	12						
			SSS		27	31						
			Lr		27	47						
						M				29	00	
			Poona	Z N		iP			17	23	39	2350
PP		24				09						
PPP		24				16						
iS		27				30						
Lq		27				51						
SSS		28				23						
						M		30	17			
Bombay	N,E E N E					iP	17	23	43	2370	Slight.	
			PP		24	04						
			Lq		26	54						
			eS									
			iS		27	35						
			SS		28	13						
			SSS		28	20						
			Lr		28	48						
Hyderabad	N,E N E		iP	17	23	48	2410					
			iS		27	44						
			M		29	21						
			M		30	47						
												Per. = 11 Secs u = 5
Shillong	Z,E E N,E E N,E		iP	17	25	52	3940	Slight. First movement East. Compression.				
			PPP		27	38						
			eS		31	27						
			PcS		31	48						
			Lq		34	00						
			Lr		36	12						
						M				38	56	
			01	Bokaro	N,E	e			17	32	27	
i		34				18						
i		35				19						
01	Shillong	Z	eP	17	52	18	130	Slight.				
			eSg		52	34						

DATE	STATION	COMPT.	PHASE	G. M. T.			/	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
01	Shillong	Z	iP	19	18	21		Slight.
01	Dehra Dun	E	e	20	29	09		Tremor.
01	Shillong	Z	eP	22	20	57		Slight.
01	Dehra Dun	N,E	e	22	43	43		Tremor.
01	Shillong	Z	eP	22	44	42		Slight.
01	Shillong	Z	e	23	36	31		Feeble.
02	Shillong	Z,E	iP	01	29	39	7660	Slight. First movement West. Compression.
		E	eS		38	44		
02	Poona	Z	iP	01	39	03		Tremor.
02	Epc: 4° S, 152½° E; - H = 01h 36m 45s (U.S.C.G.S).							
	Shillong	Z,E	eP	01	47	35	7360	Slight.
			PcP		47	51		
		E	PP		49	56		
		N,E	eS		56	23		
		E	PS		56	36		
			ScS		57	13		
			Lr	02	06	51		
			M		13	08		
	Bombay	E	iP	01	49	11	10110	
			PP		52	38		
			PPP		54	36		
			SKKS		59	38		
			iS	02	00	07		
02	Shillong	Z	e	02	13	15		Slight.
			e		15	58		
02	Shillong	Z	eP	03	32	56		Slight.
02	Shillong	Z	iP					Slight, near. Rarefaction.
		E	eP	03	41	26		
		N,E	e		42	33		
			e		45	58		
			e		47	59		
02	Shillong	Z	iP	03	47	23		Slight.
02	Shillong	Z	iP	04	42	53		Slight.
02	Shillong	Z	e	06	26	36		Slight.
02	Shillong	Z	iP	11	14	24		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
Mar. 1955								
02	Shillong	Z	e	12	51	10		Slight.
02	Shillong	Z	e	13	36	19		Slight.
02	Shillong	Z	e	14	20	27		Slight.
02	Shillong	Z	iPg eSg	14	39	15 39 17	20	Slight.
02	Shillong	Z	e	17	05	54		Slight.
02	Shillong	Z	e	17	17	48		Slight.
02	Shillong	Z	e	18	14	42		Feeble.
02	Shillong	Z	i	18	15	22		Slight.
02	Shillong	Z	ePg eSg	19	41	24 41 34	80	Slight.
02	Shillong	Z	e	20	19	53		Slight.
02	Shillong	Z	e	20	42	00		Slight.
02	Shillong	Z	e	21	54	47		Slight.
02	Shillong	Z	e	23	57	38		Slight.
03	Shillong	Z	e	00	52	17		Slight.
03	Shillong	Z	iP	01	21	30		Slight.
03	Shillong	Z	iP	04	35	38		Slight.
03	Shillong	Z	ePg eSg	09	35	13 35 15	20	Slight.
03	Shillong	Z	eP	10	13	17		Slight.
03	Shillong	Z	eP	10	32	31		Slight.
03	Shillong	Z	eP	12	01	27		Slight.
03	Shillong	Z	eP	13	38	07		Slight.
03	Shillong	Z	e	14	28	27		Slight.
03	Shillong	Z	e	16	39	20		Slight.
03	Shillong	Z	eP	20	07	14		Slight.
03	Shillong	Z	i e	20	15	03 15 31		Slight, near.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
03	Shillong	Z	e	20	29	30		Feeble.
03	Shillong	Z	iP	20	58	26		Slight.
03	Shillong	Z	e	23	33	48		Slight.
03	Shillong	Z N,Z	iPg eSg	23	39	00	90	Slight.
					39	11		
04	Dehra Dun	N,E	e	05	54	04		Tremor.
04	Shillong	Z	e	06	20	39		Slight.
04	Shillong	Z	e	11	07	48		Slight.
04	Shillong	Z	e	15	49	40		Slight.
04	Shillong	Z	e	16	56	59		Slight.
04	Shillong	Z	e	17	19	09		Slight, near.
			e		19	25		
			e		19	29		
04	Shillong	Z	e	17	56	18		Slight.
04	Shillong	Z	e	20	52	50		Slight, near.
			e		53	18		
04	Shillong	Z	e	22	25	30		Slight.
05	Shillong	Z	eP	03	49	15		Slight.
05	Shillong	Z	iP	05	37	43		Slight.
05	Shillong	Z	eP eSg	05	42	27	180	Slight.
					42	51		
05	Shillong	Z	eP	08	34	43		Slight.
05	Epc: Hindukush. - H = 10h 22m 50s (U.S.C.G.S).							
	Dehra Dun	N,E N	eP PP PPP P* Lq iS Lr SS SSS S* Sg/M	10	24	58	810	Moderate.
					25	06		
					25	13		
					25	16		
					26	11		
					26	22		
					26	33		
					26	35		
					26	47		
					26	50		
					27	10		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
05	New Delhi	N,E	eP	10	25	12	950	Slight.
Contd.		E N,E	PP		25	28		
			Pg		25	50		
			Lq		26	40		
			iS		26	50		
			SS		27	02		
			Lr		27	05		
			Sg		27	43		
	Poona	Z	eP	10	27	03	1920	Feeble. Phases doubtful.
			PP		27	20		
			iS		30	15		
			SS		30	34		
			i		31	19		
			i		32	52		
	Bombay	N	PP	10	27	27	1780	
			eS		30	10		
		E	e		30	13		
	Shillong	Z,E	eP	10	27	30	2290	Slight.
			i		27	32		
		E	PPP		28	06		
			iS		31	16		
	Madras	E	e(S)	10	32	45		Slight. Phases not identifiable.
			e		35	46		
05	Shillong	Z	e	11	08	46		Slight. Local.
			e		08	51		
			e		09	01		
			e		09	06		
05	Shillong	Z	eP	12	50	50		Slight.
05	Shillong	Z	e	16	46	34		Feeble.
05	Shillong	Z	e	17	31	53		Slight.
05	Shillong	Z	e	19	47	29		Feeble.
05	Shillong	Z	eP	21	54	32		Slight.
06	Shillong	Z	eP	03	01	35		Slight. Near.
06	Shillong	Z	eP	05	57	18		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
06	Epc: 3° S, 101° E; - H = 06h 17m 58s (Shillong); 2½° S, 100° E; - H = 06h 18m 01s Near South Coast of Sumatra (U.S.C.G.S); - h = 50 km (Kiruna); Magnitude = 6½-6¼ (Kiruna).							
	Colombo	E	P	06	23	05		
			S		27	10		
			L		30	07		
			M ₁		33	50		
			M ₂		36	25		Amp. = 1.8mm
	Madras	E	iP	06	23	32	2740	Moderate. Probably deep.
			i		23	45		
			i		23	57		
			PP		24	13		
			PPP		24	25		
			i		24	40		
			iS		27	52		
			i		28	10		
			Lq		28	46		
			SS		29	05		
			SSS		29	27		
			Lr		30	01		
			M		31	56		
	Kodaikanal	E	eP	06	23	41	3110	slight.
			PP		24	38		
			PPP		24	59		
			iS		28	25		
			Lq		29	46		
			SSS		30	22		
			Lr		31	16		
			M		33	46		
	Shillong	Z,E	iP					
		N	eP	06	24	02	3110	Moderate. First movement N-W.
		E	sP		24	31		Compression.
		N,E	PP		24	44		h = 80
			PPP		25	03		
			iS		28	46		
		E	sS		29	18		
		N,E	Lq		30	05		
			SS		30	20		
			SSS		30	44		
			Lr		31	48		
			M		34	10		
	Hyderabad	N,E	iP	06	24	05	3150	
		E	PP		24	50		
		N	eS		28	52		
			SS		30	01		
			L		33	23		
		N,E	M		34	59		Per. = 20 Secs /u = 11

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
06	Bokaro	N,E	1P	06	24	12	3210	Slight.
Contd.			PP		24	55		
			PPP		25	31		
			1S		29	02		
			Lq		30	14		
			SS		30	38		
			SSS		30	44		
			Lr		31	34		
			M		34	14		
	Poona	Z	1P	06	24	43	3780	Slight.
			PP		26	01		
			PPP		26	18		
		Z,N	eS		30	08		
		Z	Lr		32	21		
		N	SSS		32	33		
			M		36	33		
	Bombay	N,E	1P	06	24	52	3770	Moderate.
		E	PP		26	15		
		N,E	PPP		26	28		
		E	1S		30	16		
		N,E	eS		30	19		
		E	SS		33	00		
			Lq		33	07		
		N,E	SSS		33	26		
		N	i		33	37		
		E	Lr		34	58		
		N	M		38	00		
		E	M		38	31		
	New Delhi	N,E	1P	06	25	21	4270	Moderate. Direction
		N	PP		26	51		of the first movement
		N,E	S(?)		31	17		South & East.
		N	SS		33	57		
			SSS		34	29		
			M		37	10		
	Dehra Dun	N,E	eP	06	25	28	4230	Moderate.
		N	PP		26	57		
			PPP		27	17		
			1S		31	22		
			SS		33	40		
			Lq		33	54		
			SSS		34	38		
			Lr		35	36		
			M		39	03		
06	Shillong	Z	1P	06	28	47		Slight.
06	Shillong	Z	eP	08	06	43		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
06	Epc:		9 $\frac{1}{2}$ ^o N, 122 $\frac{1}{2}$ ^o E;	- H = 10h 55m 28s (U.S.C.G.S)				
			9 ^o N, 122 ^o E;	Near South West Philipin Islands;				
				- H = 10h 55m 33s (Shillong).				
	Shillong	Z,E	iPI	11	02	06	3640	Moderate. Rarefaction. First movement East.
		N	ePI					
		E	PP		03	17		
		N,E	PPP		03	36		
			iS		07	23		
		E	Lq		08	59		
			SS		09	31		
		N,E	Lr		10	45		
			M		13	47		
	Bokaro	N,E	iP	11	02	50	4220	
			PP		04	22		
			PPP		04	48		
			iS		08	43		
			PS		08	52		
			PPS		08	59		
			SS		11	27		
			Lq		11	42		
			SSS		11	54		
			Lr		13	11		
			M		16	52		
	Madras	E	iP	11	03	21	4580	Moderate.
			PcP		04	51		
			PP		04	59		
			PPP		05	32		
			iS		09	35		
			PPS		09	47		
			SS		12	58		
			Lq		13	34		
			Lr		15	37		
			M		19	06		
	Colombo	E	P	11	03	22		Amp. = 0.7mm
			S		09	45		
			L		18	20		
			M		22	25		
	Hyderabad	E	P	11	03	30	4770	Per. = 16 Secs. /u = 7
			PP		05	14		
			iS		09	56		
			SS		13	29		
			L		16	20		
		N	M		19	56		
		E	M		20	06		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS			
				h.	m.	s.			km.		
Mar. 1955											
06 Contd.	New Delhi	N,E N	eP	11	03	58	5070	Moderate.			
			iS		10	41					
			SS		13	53					
			Lq		14	30					
			Lr		16	33					
		M		20	34						
Dehra Dun	N,E N	eP	11	04	01	5000	Moderate				
		PP		05	38						
		PPP		06	30						
		iS		10	40						
		PS		10	50						
		PPS		10	56						
		SS		14	02						
		Lq		14	20						
		SSS		14	59						
		Lr		16	45						
		M		19	48						
Poona	Z E N	iP	11	04	11	5240	Moderate.				
		PP		06	00						
		PPP		06	53						
		PcS		09	19						
		iS		11	04						
		PS		11	08						
		PPS		11	14						
		i		14	35						
		M		22	22						
		Bombay	E N E N,E E	eP	11			04	19	5410	Slight.
				eI							
iI				04	25						
PP				06	14						
PPP				07	07						
ScP				09	04						
iS				11	21						
i				12	25						
SS				14	47						
e				15	02						
SSS				17	13						
Kodaikanal	E	e	11	09	43	4920	Slight. Long distance.				
06	Epc: 8° N, 122° E; Near South west Philippine Islands; - H = 13h 33m 30s (Shillong); 9½° N, 122½° E; - H = 13h 33m 31s (U.S.C.G.S); Felt at Dipolog, Iloilo, Dumaguete (Manila).										
Shillong	Z,E N N,E	iP	13	40	09	3670	Moderate. Direction of the first movem- ent East & South. Rarefaction.				
		eP									
		PP									
		PPP									
		iS									

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
<u>Mar.</u>						
1955						
06 Shillong Contd. Contd.		E	Lq	13 47 06		
			SS	47 29		
		N,E	SSS	47 51		
			Lr	49 31		
		N	ScS	50 33		
	N,E	M	51 46			
Bokaro	N,E	iP	13 40 54	4180	Moderate.	
		PP	42 21			
		PPP	42 47			
		iS	46 44			
		SS	49 15			
		Lq	49 34			
		SSS	49 49			
		Lr	51 23			
		M	53 51		Per.= 15 Secs.	
Madras	E	iP	13 41 24	4590	Moderate.	
		PP	42 01			
		PcP	42 14			
		PPP	42 32			
		i	43 03			
		S	47 39			
		i	48 30			
		Lq	50 57			
		SSS	51 16			
		Lr	53 59			
		M	57 58			
Colombo	E	P	13 41 25			
		S	47 42			
		L	56 30			
		M	14 00 35		Amp.= 2.0mm	
Hyderabad	E	iP	13 41 35	4810		
		PP	43 40			
		iS	48 03			
		SS	51 21			
		L	55 21			
	N	M	58 15		Per.= 20 Secs.	
		M	58 49		$\mu = 21$	
Dehra Dun	N,E N	eP	13 41 45	5340	Moderate.	
		PP	43 38			
		PPP	44 15			
		iS	48 43			
		PS	48 54			
		PPS	49 01			
		SS	52 00			
		Lq	52 57			
		SSS	53 26			
		Lr	55 28			
		M	59 17			

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
06	New Delhi	N,E	eP	13	42	01	5050	Moderate.
Contd.		N	IS		48	43		
			SS		52	04		
			Lq		52	32		
			M		58	41		
	Poona	Z	iP	13	42	13	5248	Moderate.
		E	PP		44	01		
		N,E	IS		49	07		
		E	PPS		49	16		
		N	SS		52	26		
		E	I		52	47		
		N	SSS		53	45		
			M	14	00	30		
	Bombay	N	ePi					
		E	iPi	13	42	22	5390	Moderate.
			PeP		43	27		
			PP		44	13		
			PPP		45	04		
			ScP		47	19		
		N,E	IS		49	23		
		E	PPS		49	43		
			SS		52	51		
	Kodaikanal	E	eP	13	47	46	4950	Slight. Long distance shock.
			S		54	31		
06	Shillong	Z	iP	13	49	28		Slight compression.
06	Shillong	Z	e	16	04	27		Slight.
06	Shillong	Z	e	17	30	58		Slight.
06	Shillong	Z	e	19	19	32		Slight.
06	Shillong	Z	eP	20	39	43		Slight.
06	Epc: 37° N, 74° E; Near East Pamir. - H = 20h 55m 26s (Shillong). 38½° N, 73½° E; - H = 20h 55m 13s (U.S.C.G.S).							
	Dehra Dun	N,E	eP	20	57	31	890	Moderate.
		N	PP		57	38		
			PPP		57	45		
			Lq		58	53		
			IS		59	03		
			SS		59	15		
			Lr		59	18		
			SSS		59	26		
			Sg/M		59	54		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
06 Contd.	New Delhi	N,E E N,E	eP	20	57	49	1010	Slight. Direction of first motion South and West.
			PP		57	57		
			PPP		58	03		
			P*		58	09		
			iS		59	33		
			SS		59	46		
			Lr		59	50		
			S*	21	00	08		
i.		00	21					
	Bokaro	N,E	iP	20	59	31	1820	Slight.
			PP		59	48		
			PPP		59	55		
			iS/Lq	21	02	33		
			SS		02	55		
			SSS		03	07		
			Lr		03	16		
			M		04	39		
	Bombay	N,E E N,E E N E N,E E	eP	20	59	45	2200	Slight. Deep focus.
			PP	21	00	03		
			i		00	23		
			e		03	01		
			eI					
			iI		03	13		
			iS		03	23		
			i		04	25		
i		05	11					
	Poona	Z E	iP	20	59	48	2060	Slight.
			PP	21	00	04		
			PPP		00	13		
			iS		03	12		
			SS		03	21		
			SSS		03	46		
			Lr		04	03		
			M		05	18		
	Shillong	Z,E N E	iP	20	59	53	2110	Slight. Direction of the first movement East. Compression.
			eP					
			PP	21	00	09		
		N E	PPP		00	19		
			iS					
			eS		03	22		
			Lq		03	34		
			SS		03	54		
			SSS		04	09		
			Lr		04	26		
			M		06	00		
	Hyderabad	N E N	iP	21	00	09	2240	
			PP		00	30		
			S		03	51		
			iS		03	57		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
06	Madras	E	eP	21	00	54	2700	Slight.
Contd.			PP		01	32		
			iS		05	11		
			Lq		05	37		
			SS		05	54		
			Lr		06	42		
			M		08	34		
06	Shillong	Z	eP	23	33	40		Slight.
07	Shillong	Z,E	iP	04	57	32	9580	Slight. Direction of
		E	PP	05	00	18		the first movement
			SKS		07	53		West. Compression.
			iS					
		N	eS		08	07		
		E	PS		09	10		
			PPS		09	50		
			SS		12	44		
07	Shillong	Z	e	05	31	20		Slight.
07	Shillong	Z	e	05	37	41		Slight.
07	Shillong	Z	e	06	39	35		Slight.
07	Shillong	Z	e	07	22	42		Slight.
07	Shillong	Z	e	07	57	27		Slight.
07	Shillong	Z	e	08	07	13		Slight, local.
07	Shillong	Z	e	09	44	26		Slight, local.
07	Shillong	Z	e	11	11	26		Slight.
07	Shillong	Z	e	15	01	13		Slight.
		E	e		11	47		
07	Shillong	Z	eP	16	24	04		Slight.
07	Shillong	Z	e	17	13	09		Slight.
07	Shillong	Z	e	19	52	23		Slight.
07	Shillong	Z	e	19	55	54		Slight.
07	Dehra Dun	N,E	e	20	04	48		Tremor.
08	Shillong	Z	e	03	56	17		
08	Shillong	Z	e	04	56	57		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u> 1955								
08	Colombo	E	P	05	56	50		
			S	06	06	22		
			M		44	35		Amp.= 0.1mm
08	Madras	E	iP?	06	01	20		Other phases not clear.
08	Shillong	Z	e	06	42	50		
08	Shillong	Z	e	06	52	44		
08	Shillong	Z	eP	15	15	21	130	Felt at Goalpara.
			Sg		15	37		
08	Dehra Dun	N,E	e	19	26	50		Feeble. Phases not clear.
			i		27	34		
08	Shillong	Z	eP	19	39	43		
08	Poona	Z	i?	23	41	34		Tremor.
09	Shillong	Z	eP	00	36	28		
09	Poona	Z	i?	02	24	54		Tremor.
09	Shillong	Z	e	02	35	51		
09	Hyderabad	N	M	03	19	41		Per.= 21 Secs.
		E	M		19	46		$\mu = 9$
09	Colombo	E	P	03	45	00		'P' approximate.
			L		15	19		
			M		19	29		Amp.= 0.4mm
09	Shillong	Z	iP	04	56	41		
09	Shillong	Z	eP	05	51	13		
	Poona	Z	iP	05	51	37		
09	Shillong	Z	eP	09	24	59		
			eS		29	45		
	Colombo	E	P	09	25	34		'P' uncertain.
			M		48	14		Amp.= 0.1mm
	Poona	Z	iP	09	27	30		Tremor.
	Dehra Dun	N,E	i	09	32	46		Slight. Phases not clear.
			i		41	24		
	Hyderabad	N	M	09	44	51		Per.= 12 Secs.
		E	M		45	00		$\mu = 2$

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
09	Dehra Dun	N,E	e	10	49	03		Tremor.
09	Shillong	Z	iP	14	12	55		
09	Poona	Z	iP	17	31	12		Tremor.
	Shillong	Z	i	17	31	23		
09	Shillong	Z	e	18	08	19		
09	Shillong	Z	e	19	54	22		
09	Shillong	Z	e	21	30	36		
10	Shillong	Z	e	00	52	06		
10	Shillong	Z	iP	16	17	05		
10	Shillong	Z	e	17	47	27		
10	Shillong	Z	e	18	46	05		
10	Shillong	Z	e	19	53	52		
10	Shillong	Z	e	20	53	19		
10	Epc: 34° N, 78° E; (Kashmir). - H = 21h 16m 26s (Shillong).							
	33° N, 76½° E; - H = 21h 16m 21s (B.C.I.S)							
	32½° N, 77° E; - H = 21h 16m 20s (U.S.C.G.S).							
	Dehra Dun	N,E	eP	21	17	13	330	Slight.
		N	P*		17	17		
			PP		17	21		
			Pg		17	23		
			PPP		17	27		
			Lq		17	37		
			Lr		17	45		
			iS		17	49		
			S*		17	54		
			SS/Sg		17	59		
			SSS		18	10		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS			
				h.	m.	s.					
<u>Mar.</u>											
1955											
10 Contd.	New Delhi	N,E	eP	21	17	31	680	Slight.			
			PP			17 40					
		E	PPP			17 47					
			Pg			18 02					
		N,E	Lq			18 29					
			iS			18 42					
		E	i			19 00					
			S*			19 03					
			SSS.			19 09					
Poona	Z		iP	21	19	55	1590	Slight.			
			PP			20 03					
		N	PPP			20 13					
			eS			22 35					
		E	SS			22 52					
			SSS			23 04					
			Lr			23 13					
			M			23 47					
		Shillong	E	eP	21	19			55	1610	Slight.
				PP					20 10		
iS					22 37						
Bombay	E	e	21	20	09		Near shock of slight intensity.				
		e			23 35						
	N	i			23 43						
		e			23 43						
Bokaro	N,E	eS	21	21	29		Feeble.				
		i			23 01						
Hyderabad	E	e	21	24	18		Per.= 9 Secs. , u = 2				
		M			25 57						
Colombo	E	P	21	27	31		'P' uncertain. Amp.= 0.1mm				
		L			06 36						
		M			13 06						
10	Madras	E	iP	22	24	24	1400	Slight.			
			Lq			26 40					
			iS			26 47					
			SS			27 00					
			SSS/Lr			27 24					
			M			28 33					
11	Dehra Dun	N,E	e	03	18	50		Tremor			
	Shillong	Z	e	03	18	55					
11	Shillong	Z	e	04	37	05					
11	Shillong	Z	e	09	29	13					
	Poona	Z	i	09	29	59		Tremor			

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.m.	s.	km.		
<u>Mar.</u>								
1955								
11	Shillong	Z	e	18	20	18		
11	Shillong	Z	e	18	37	40		
11	Shillong	Z	eP	21	53	11		
11	Poona	Z	i	21	55	00		
11	Epc: 8° N, 124° E; (Mindanao, Philippine) - H = 23h 32m 46s (U.S.C.G.S). Felt at Dipolog, Mambajao and Iloilo (Manila).							
	Shillong	Z	iP	23	39	43	3980	Slight.
		E	iS		45	21		
	Bokaro	N,E	iP	23	40	20	4400	Slight, distant.
			PP		41	59		
			PPP		42	27		
			eS		46	24		
			PS		46	28		
			PPS		46	34		
			SS		49			
			Lq		49	30		
			SSS		49	50		
			Lr		51	27		
			M		55	12		
	Madras	E	iP	23	40	52		Slight.
			e		42	34		
	Dehra Dun	N,E	e	23	41	33		Tremor.
	Poona	Z	iP	23	41	42	5590	Slight.
		E	PP		43	32		
			eS		48	55		
			PS		49	01		
			PPS		49	09		
			ScS		51	01		
	Bombay	E	iP	23	41	49	5750	Moderate.
		N	eP		41	52		
		E	PcP		42	52		
			PP		43	46		
			PPP		44	55		
			ScP		47	03		
			iS		49	11		
			PS		49	22		
			PPS		49	31		
12	Shillong	Z	e	02	39	49		Slight.
12	Shillong	Z	e	06	27	15		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
12	Shillong	Z	e	09	29	26		Slight.
12	Shillong	Z	e	12	06	49		Slight.
12	Shillong	Z	e	12	58	26		Slight.
12	Shillong	Z	iP	13	37	39		Slight.
	Poona	Z	i	13	38	46		Tremor.
12	Epc: 35.5° N, 74.4° E; - H = 16h 42m 30s (Shillong); 35° N, 73.4° E; - H = 16h 42m 15s (U.S.C.G.S). 35° N, 73.5° E; - H = 16h 42m 18s (B.C.I.S).							
	Dehra Dun	N,E N	eP PP P* PPP. Pg Lq iS Lr SS S* SSS. Sg	16	43	52	610	Moderate.
	New Delhi	N E N,E N E N,E N N,E	eP eP e P* Pg i i iS SS S* Sg	16	44	01	800	Slight.
	Bombay	N,E E N,E E	eP PP PPP e iS SS SSS Lr M	16	46	02	1610	Moderate.
	Bokaro	N,E	eP i i	16	46	03		Slight. Probably deep.

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS					
				h.	m.	s.							
<u>Mar.</u>													
1955													
12 Contd.	Poona	Z	iP	16	46	04	1690	Slight.					
			PP		46	17							
			PPP		46	25							
			eS		48	54							
			SS		49	15							
			SSS		49	28							
			Lr		49	49							
			M		50	51							
			Hyderabad	N	E	eP			16	46	30	1760	
						S				49	27		
M		51				22							
N		53				09							
								Per. = 6 Secs. A = 7					
Shillong	Z	E	iP	16	46	32	1910	Slight.					
			iS		49	43							
Madras	E		eP	16	47	31	2460	Slight.					
			PP		47	49							
			PcP		51	17							
			S		51	31							
			Lq		51	52							
			SS		52	10							
			Lr		52	52							
			M		54	24							
Colombo	E		eS	16	52	30							
			e		55	35							
			L		57	22							
			M		59	35							
12	Shillong	Z	e	18	23	23		Slight.					
12	Shillong	Z	e	18	34	22		Slight.					
12	Shillong	Z	eP	19	36	12		Slight.					
12	Shillong	Z	e	23	18	51		Feeble.					
13	Shillong	Z	e	04	13	14		Feeble.					
	Poona	Z	i	04	15	11		Tremor.					
13	Shillong	Z	e	05	29	42		Feeble.					
13	New Delhi	Z	eP	07	02	16	2080						
			eS		05	42							
			M		08	33							
13	Shillong	Z	e	08	00	05		Feeble.					
13	Shillong	Z	e	08	17	02		Tremor.					

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
13	Epc: Southern Iran; - H = 16h 58m 00s (U.S.C.G.S); 28° N, 56½° E; - H = 16h 58m 05s (B.C.I.S).							
	Bombay	E	iP	17	02	08	2030	Slight.
		N	eP					
		E	PP		02	22		
			PPP		02	31		
			i		03	00		
		N,E	eS		05	30		
		E	Lq?		05	34		
			i		05	41		
			SS		05	50		
			SSS		06	06		
	Poona	Z	iP	17	02	21	2090	Slight.
			PP		02	34		
		E	PPP		02	44		
		N	eS		05	48		
		E	M(?)		07	18		
	Dehra Dun	N,E	eP	17	02	43	110	Slight.
			PP		02	55		
			i		02	57		
			S		06	14		
			SS		06	35		
		N	Lr		06	49		
			M		08	17		
	Hyderabad	E	eP	17	03	10	2530	
		N	S		07	15		
		E	M		12	20		Per. = 18 Secs.
		N	M		12	21		u = 5
	Madras	E	iP	17	03	52	3370	Slight.
			PP		04	51		
			eS		08	52		
			i		09	07		
			Lq		10	13		
			SSS		10	39		
			M		14	19		
	Colombo	E	L	17	12	34		
			M		17	19		Amp. = 0.1mm
13	Shillong	Z	eP	17	05	25		Slight.
13	Dehra Dun	N,E	e	18	41	57		Tremor.
	Shillong	Z	e	18	42	50		Tremor.
13	Shillong	Z	e	18	57	05		Tremor.
13	Shillong	Z	eP	19	39	59		Slight.
13	Madras	E	iP	19	41	05		Slight. Other Phases not clear.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
13	Poona	Z	i	19	42	02		Tremor.
Contd.								
13	Shillong	Z	eP	20	14	16		Slight.
13	Shillong	Z	e	20	35	13		Tremor.
13	Shillong	Z	e	22	15	13		Tremor.
13	Shillong	Z	e	22	44	54		Tremor.
13	Shillong	Z	e	23	46	47		Tremor.
14	Shillong	Z	e	00	28	48		Tremor.
14	Shillong	Z	e	02	43	08		Feeble.
14	Shillong	Z	e	06	10	19		Feeble.
14	Shillong	Z	e	11	13	03		Feeble.
14	Shillong	Z	eP	12	08	20		Slight.
14	Epc: $52\frac{1}{2}^{\circ}$ N, $173\frac{1}{2}^{\circ}$ W; - H = 13h 12m 04s; - h = 100 km.(U.S.C.G.S) Magnitude = 7 (U.S.C.G.S); $6\frac{3}{4}$ (Berkeley); $6\frac{1}{2}$ (Kiruna).							
	Shillong	Z	iP	13	23	21	7840	Moderate.
		E	PP		26	08		
			eS		32	34		
			PS		33	08		
	Dehra Dun	N,E	eP	13	23	52	7840	Moderate.
		N	PP		26	52		
			iS		33	05		
			PS		35	15		
			PPS		36	03		
			SS		40	22		
			SSS		44	22		
			Lr		53	20		
			M	14	00	35		
	Bokaro	N	eP	13	23	57	8220	Moderate. Distant.
			iS		33	29		
			SKS ₁		33	58		
			PS ₁		34	22		
			PPS		34	49		
			Lq		43	59		
			Lr		47	18		
			M		53	39		
	Poona	Z	iP	13	24	08	8830	Moderate.
			eS		34	09		
			ScS		35	17		
			PS		36	03		
			PPS		36	17		
			SS		40	35		
			SSS		44	15		
			Lr		51	44		
			M		59	03		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
14 Contd.	New Delhi	N,E N	(eP)?	13	24	37	7540	Slight.
			S		33	35		
			ScS		34	35		
			i		39	29		
			Lr		44	57		
			M		50	53		
Bombay	E	E	eP	13	25	01	9250	Moderate. Deep-Focus. (Tabulated as normal shock)
			e		26	30		
			i		29	03		
			PPP		30	23		
			SKS		35	00		
			iS					
			eS		35	21		
			i		36	08		
			PS		36	28		
			PPS		36	45		
			SS		40	47		
			SSS		44	19		
			Hyderabad	E	E	eP		
PP		28				45		
iS		35				57		
SS		41				11		
L		53				21		
M		58				48		
M		59				24		
Madras	E	E	eP	13	25	31	10110	Moderate.
			PP		29	16		
			PPP		31	13		
			SKS		36	09		
			iS		36	26		
			PS		36	41		
			PPS		38	39		
			SS		42	59		
			SSS		46	49		
			Lq		51	14		
			Colombo	E	E	e		
i		34				43		
e		46				21		
M		51				36		
14	Shillong	Z	e	17	11	33		Feeble.
			iP	17	24	49		
			e	22	36	07		
			e	23	06	46		
			eP	06	26	13		
15	Shillong	Z						Slight. Distant, phases not clear.

Per. = 18 Secs.
/u = 6

Amp. = 0.4mm

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
15	Shillong	Z	e	07	39	33		Tremor.
15	Epc: 23.8° N, 93° E; (Indo Burma Border); - H = 08h 13m 18s (Shillong); Felt at Shillong.							
	Shillong	Z,N,E	iP	08	13	53	220	Slight. Felt locally.
		Z,E	PP		13	55		
			iPg		13	58		
			P*		14	00		
			PPP.		14	06		
			S		14	19		
			S*		14	21		
			iSg/N.		14	24		
			SS		14	31		
			SSS		14	41		
	Bokaro	N,E	iP	08	14	56	770	Slight.
			Lq		16	05		
			eS		16	16		
			SSS		16	38		
			M		16	57		
	Dehra Dun	N,E	eP	08	16	49	1590	Slight.
		N	iS		19	29		
			SS		19	43		
			SSS		19	54		
			Sg/M		21	03		
	New Delhi	N,E	eP	08	16	53	1560	Slight.
			iS		19	30		
			SS		19	46		
		N	SSS		19	58		
			Lr		20	05		
	Madras	E	iP	08	16	58	1710	Slight.
			iS		19	50		
			SS		20	11		
			Lr		20	04		
			M		22	00		
	Poona	Z	iP	08	17	31	1910	Slight.
			PP		17	45		
			PPP		17	56		
			eS		20	42		
			i		20	54		
			SSS		21	14		
			Lr		21	28		
			PcP		22	08		
			M		22	53		
	Bombay	N	eP					
		E	iP	08	17	44	2300	Slight.
			PP		18	04		
			iS		21	31		
			SS		22	03		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
15	Shillong	Z	e	16	17	20		Tremor.
15	Shillong	Z	iP	16	53	50		Moderate. Distant. Phases doubtful.
15	Dehra Dun	N,E	e	17	07	52		Tremor.
15	Shillong	Z	iP	17	27	05		Moderate. Phases doubtful.
15	Shillong	Z	iP	20	23	09		Slight. Distant. Pha- ses not developed.
16	Shillong	Z	e	03	41	52		Tremor.
16	Shillong	Z	eP	04	04	47		Slight. Phases doubtful.
16	Shillong	Z	iP	06	47	40		Slight. Distant. Phases doubtful.
16	Epc: $24\frac{1}{2}^{\circ}$ N, $121\frac{1}{2}^{\circ}$ E; - H = 20h 12m 34s (B.C.I.S.); Formosa; - H = 20h 12m 22s (U.S.C.G.S)							
	Shillong	Z,N,E	iP	20	18	14	3080	Moderate. Probably deep.
		E	PP		19	04		
			PPP		19	26		
			eS		22	56		
			Lq		24	10		
			Lr		25	30		
			M		27	39		
	Colombo	E	e	20	19	21		
			S		27	21		
			L		37	31		
			M		41	31		Amp. = 0.2mm
	Bombay	E	e	20	21	03		
			e		30	48		
			e		31	56		
	Bokaro	N,E	eS	20	24	30		Slight.
			i		30	23		
			i		31	32		
			i		34	55		
	Hyderabad	E	M	20	36	16		Per. = 17 Secs.
		N	M		36	18		/u = 5

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
				△			
				km.			
<u>Mar.</u>							
1955							
16	Epc: 36.5° N, 72° E; Hindukush; - H = 20h 39m 30s Shillong); 38° N, 71° E; - H = 20h 39m 20s (U.S.C.G.S).						
	Dehra Dun	N,E N	eP PP PPP Lq iS SS Lr SSS S* Sg/M.	20	41	46	950 Moderate.
	Poona	Z	iP PP PPP eS i SS SSS Lr PcP M	20	43	36	1930 Slight.
	Shillong	Z,N,E E	iP PP PPP eS Lq SS SSS Lr M	20	44	10	2230 Slight. Probably deep.
	Madras	E	eP (eS)?	20	45	37 49	41 Phases not at all clear.
16	Shillong	Z	e	22	05	14	Slight.
16	Colombo	E	P L M	22	17	36 59 21 23	11 06 Amp. = 0.1mm
17	Shillong	Z	e	02	30	13	Tremor.
17	Dehra Dun	N,E	e	05	47	29	Tremor.
17	Shillong	Z	e	09	23	14	Moderate. Phases doubtful.
17	Shillong	Z	iP	17	45	37	Moderate. Distant. Phases doubtful.
17	Shillong	Z	e	17	51	56	Tremor.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
17	Shillong	Z	e	18	51	05		Tremor.
18	Epc: $54\frac{1}{2}^{\circ}$ N, 161° E; - H = 00h 06m 42s; Near East Coast of Kamchatka (U.S.C.G.S); $54\frac{1}{2}^{\circ}$ N, 161° E; - H = 00h 06m 44s (B.C.I.S). Magnitude = $7\frac{1}{4}$ - $7\frac{3}{4}$ (Pasadena, Berkeley); $7\frac{3}{4}$ (Skalnate Pleso); $7\frac{1}{4}$ (Roma); $7\frac{1}{4}$ (Takubaya); 7 - $7\frac{1}{4}$ (Praha, Hurb-anavo); 7 (Uppsala); $6\frac{3}{4}$ - 7 (Kiruna).							
	Dehra Dun	N,E N	eP PP PPP iS PS PPS SS SSS Lq Lr M	00	17	04	7310	Moderate. Per. = 14 Secs. /u = 84
	New Delhi	N,E N	iP i PPP S SKS i Lr	00	17	15	7040	Moderate. Direction of the first movement North.
	Bokaro	N,E	iP PcP PP PPP PcS iS PS PPS ScS SS SSS Lq Lr M	00	17	07	6530	Moderate. Distant. Per. = 34 Secs. Amp. = 22mm
	Hyderabad	N,E N E N E	iP PP PPP iS PS SS SSS L M M	00	18	05	7770	Per. = 17 Secs. /u = 104

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS	
				h.	m.	s.			
<u>Mar.</u>									
1955									
18 Contd.	Bombay	N,E	iP	00	18	18	8030	Moderate. Appears to be a double-shock.	
			PcP		18	28			
		PP		21	02				
		PPP		22	49				
		E	iS						
		N	eS		27	41			
	E	N	PS		28	11			
			PPS		28	33			
	N	N	M		56	47	8000	Per.= 15 Secs. /u =134 Great.	
	18 Contd.	Poona	N	iP	00	18	19	8000	Per.= 15 Secs. /u =101 Great.
				PcP		18	43		
PP					20	48			
PPP					22	41			
ScS					22	55			
iS					27	40			
PS					27	57			
PPS					28	24			
SS					32	05			
i					33	04			
Lq					36	35			
Lr					39	44			
M		45	23						
Mn		57	44						
18 Contd.	Madras	E	iP	00	18	22	7810	Great.	
			PcP		18	44			
			i		19	53			
			PP		21	09			
			PPP		22	36			
			iS		27	34			
			PS		28	17			
			PPS		28	24			
			SS		31	59			
			18 Contd.	Kodaikanal	E	eP			00
PP		21				38			
PPP		23				23			
iS		28				26			
SS		33				26			
Lq		38				38			
Lr		42				08			
M?		48				14			
18 Contd.	Colombo	E	iP	00	18	50		Amp.= 3.7mm	
			S		28	43			
			L		40	08			
			M		57	35			
18	Shillong	Z	e	05	12	23		Slight. Local.	
18	Shillong	Z	i	06	19	10		Tremor.	

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
Mar. 1955								
18	Shillong	Z	iP	07	53	33		Moderate. Distant. • Phases doubtful.
18	Shillong	Z	i	09	29	41		Tremor.
18	Shillong	Z	i	10	07	19		Tremor.
18	Shillong	Z	i	20	44	34		Slight.
19	Shillong	Z	iP	04	04	33		Moderate. Distant. Phases doubtful.
19	Dehra Dun	N,E	e	08	09	05		Feeble. Phases not clear.
			i		10	50		
			i		11	10		
	Poona	Z	iP?	08	09	45		Feeble. Phases not clear.
			i		14	58		
			i		16	02		
	Shillong	Z	e	08	10	09		Slight.
19	Madras	E	eP?	08	17	08		
			iS?		19	22		
	Shillong	Z	e	08	18	41		Slight.
19	Shillong	Z	e	17	20	28		Feeble.
19	Shillong	Z	e	17	24	00		Slight. Very distant.
19	Shillong	Z	e	17	32	59		Feeble.
19	Shillong	Z	eP	18	28	53		Slight. Distant.
19	Dehra Dun	N,E	e	20	16	33		Tremor.
19	Shillong	Z,E	iP	22	01	15		Moderate. Distant. Phases doubtful.
19	Shillong	Z	eP	23	09	13		Slight.
			e		48	21		
20	Shillong	Z	iP	00	45	08		Distant.
20	Shillong	Z	e	02	12	40		Feeble. Distant.
20	Shillong	Z	e	02	29	35		Slight. Distant.
20	Shillong	Z	eP	06	20	38		Distant. Slight.
20	Shillong	Z	eP	20	46	48		Slight. Distant.
20	Shillong	Z	eP	21	19	12		Moderate. Distant. Phases doubtful.

100

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS	
				h.	m.	s.			
<u>Mar.</u>									
<u>1955</u>									
20	Shillong	Z,E E	iP Lq eS Lr SS M	23	18	13 14 25 35 46 59	690	Moderate. Phases not very regular.	
21	Poona	Z	i	00	56	31		Tremor.	
21	Poona	Z	iP i i	00 01	57 01	49 32 40		Tremor. Probably a very feeble shock.	
	Madras	E	eP e e e e M	00	57	24 32 40 50 54 18	1480	Slight.	
	Bombay	N	eP e eS	00	57	57 42 47	3210	Slight.	
	Shillong	Z	iP	00	59	54		Moderate. Phases doubtful.	
	Kodaikanal	E	e e e e	01	01	40 40 40 31	1170	Slight.	
	Hyderabad	E	M	01	05	54		Per. = 11 Secs. μ = 9	
21	Shillong	Z	e	02	20	32		Slight. Very distant.	
21	Shillong	Z	eP	04	58	16		Moderate. Distant. Phases unidentifiable.	
21	Shillong	Z	e	05	31	09		Tremor.	
21	Epc: 25.4° N, 99.4° E; In China Burma Frontier;								
	26° N, 98½° E; -h = 100 km;								
	- H = 13h 01m 55s (Shillong);								
	- H = 13h 02m 05s (U.S.C.G.S).								
	Shillong	N,E E	iP PP P* Pg Lq IS Lr SS S* SSS Sg/M	13	03	27 34 39 53 27 37 43 48 55 58 10	670	Slight.	

DATE	STATION	COMPT.	PHASE	G. M. T.	△	REMARKS
				h. m. s.	km.	
<u>Mar.</u>						
1955						
21 Contd.	Bokaro	N,E	eP	13 04 51	1820	Slight.
			Lq	07 42		
			iS	07 53		
			SS	08 08		
			SSS	08 23		
			Lr	08 44		
			M	09 29		
Hyderabad	E	iP	13 06 10	2300	Times approximate.	
		iS	09 57			
		L	12 12			
		M	13 58			
						Per. = 11 Secs. /u = 4
Dehra Dun	N,E N	eP	13 06 19	2100	Slight.	
		PP	06 29			
		iS	09 47			
		Lq	09 58			
		SS	10 07			
		SSS	10 21			
		Lr	10 46			
		M	12 18			
New Delhi	N,E N	eP	13 06 23	2160	Slight.	
		iS	09 56			
		SS	10 22			
		i	10 42			
		Lr	11 09			
		M	12 10			
Madras	E	iP	13 06 47	2570	Slight.	
		PP	07 15			
		PPP	07 29			
		PcP	10 19			
		iS	10 55			
		Lq	11 28			
		SSS	11 53			
		Lr	12 36			
		M	15 06			
		Poona	Z			eP
PP	07 53					
PPP	08 08					
i	11 29					
eS	11 34					
Lq	12 33					
SS	12 55					
Lr	14 42					
M	15 59					
ScS	17 53					
Bombay	N,E E			eP	13 07 23	2790
		PP	08 04			
		PPP	08 16			
		eS	11 46			
	N,E E	iS	12 47			
		SS	13 03			
		SSS	13 03			
		Lr	13 49			

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
22 Contd.	Madras	E	iP	06	18	52	2510	Slight.
			PP		19	30		
			PPP		19	38		
			iS		22	56		
			Lq		23	36		
			SS		23	54		
			SSS		24	11		
			Lr		24	38		
		M		26	54			
. Poona	Z		iP	06	19	18	2780	Moderate.
			PP		19	58		
			PPP		20	03		
			PcP		22	57		
			eS		23	03		
			Lq		24	05		
	E		SS		24	18		
			SSS		24	37		
			Lr		25	07		
			M		27	03		
			ScS		30	14		
					e	06	19	25
Bombay	N	E	ePI	06	19	25	2850	Moderate.
			iPI					
			PP		20	09		
			PPP		20	18		
			PPP		20	24		
			iS		23	51		
			iS		23	55		
			SS		25	03		
			SS		25	12		
			Lr		25	58		
			M		27	00		
			M		27	41		
Colombo	E		P	06	19	35		Time approximate.
			S		24	10		
			L		33	00		
			M		34	55		
22	Shillong	Z	e	11	17	00		Slight.
			iP	11	59	52		
			eP	14	08	04		
22	Epc:	10° S, 93° E; - H = 14h 04m 54s (Shillong);						
		8½° S, 92° E; - H = 14h 05m 04s (U.S.C.G.S);						
		9° S, 91½° E; - H = 14h 05m 06s (B.C.I.S);						
		Magnitude = 7-7½ (Wellington); 7 (Pasadena, Uppsala,						
		Kiruna, Lwiro); 6½-7 (Skalnate Pleso); 6½ (Praha).						

Per. = 7 Secs.
/u = 12

Amp. = 0.8mm

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
22 Contd.	Colombo	E	P	14	09	40		
			e		11	08		
			S		13	25		
			M		15	20		Amp. = 28.4mm
	Kodaikanal	E	iP	14	10	21	2900	Moderate.
			iS		14	21		
			SSS		15	12		
			Lr		15	22		
			M		17	07		
								Per. = 9 Secs. /u = 15
	Madras	E	iP	14	10	29	2960	Moderate.
			PP		11	19		
			PPP		11	31		
			PcP		13	38		
			iS		15	03		
			Lq		16	16		
			SS		16	27		
			Lr		17	28		
			M		19	26		
	Hyderabad	N	iP	14	11	16	3410	Light, faint. Minute marks not clear. Per. = 17 Secs. /u = 148.
			iS		16	19		
			M		19	49		
	Poona	Z,N,E	iP	14	11	39	3710	Great.
			PP		12	53		
		Z,N	PPP		13	11		
		N	PcP		14	21		
			iS		17	01		
			PcS		18	01		
			Lq/SS		18	54		
			SSS		19	19		
			Lr		20	26		
			M		23	21		
	Bokaro		N,E	iP	14	11	45	3610
		PP			12	40		
		PPP			13	06		
		i?			16	21		
		iS			17	00		
		Lq			18	36		
		SS			18	57		
		SSS			19	08		
		Lr			20	17		
		M			21	45		
								Per. = 18.7 Secs. /u = 165

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS		
				h. m. s.	km.			
<u>Mar.</u>								
1955								
22 Contd.	Bombay	N,E	iP	14 11 47	3850	Moderate to great. 'M' waves nicely recorded.		
			PP	13 05				
			PPP	13 21				
		N	PcP	14 23				
		N,E	i	15 37				
		N	iS	17 17				
		E	Lq	19 19				
		N,E	SS	19 24				
			SSS	19 56				
		N	Lr	20 58				
		E	M	23 25				
		N	M	24 21				
							Per.= 20 Secs. μ =272.	
		Shillong	Z,N,E N,E	Z,N,E			iP	14 11 54
PP	13 12							
	PPP			13 35				
N	PcP			14 24				
N,E	iS			17 28				
N	PcS			18 13				
N,E	Lq/SS			19 29				
	Lr			20 54				
	M			24 20				
					Per.= 20 Secs. μ =130.			
New Delhi	N,E		iP	14 12 41	4280	Great.		
			PP	14 12				
			PPP	14 47				
			iS	18 38				
			SS	21 31				
			SSS	22 12				
			Lr	23 34				
Dehra Dun	N,E N		eP	14 12 53	4690	Moderate.		
			PP	14 28				
			PPP	15 31				
			iS	19 14				
			PS	19 22				
			PPS	19 40				
			SS	22 36				
			Lq	23 06				
			SSS	23 30				
			Lr	25 10				
			M	29 10				
								Per.= 20 Secs. μ =152.
			22	Shillong			Z	e
22	Shillong	Z	e	18 29 08		Slight.		
22	Shillong	Z	e	18 34 45		Slight, near.		
			e	34 58				

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
22	Shillong	Z	ePg eSg	21	38	31 38 37	50	Slight.
22	Shillong	Z	e	21	55	04		Slight.
22	Shillong	Z	e	22	37	08		Slight.
23	Shillong	Z	iPg iSg	00	20	43 20 47	40	Slight.
23	Shillong	Z	e	00	50	02		Slight.
23	Epc: After shock of the Indian Ocean shock dated 22nd March '55; - H = 04h 54m 31s (U.S.C.G.S); 9° S, 93° E; - H = 04h 54m 29s (Shillong).							
	Colombo	E	e	04	59	40		
			e	05	02	50		
			e		03	38		
			e		04	40		Amp. = 1.6mm
	Madras	E	iP PP PPP S? SSS M	04 05	59 00	59 13 19 54 18 17	1740	Slight.
	Hyderabad	N	eP S SS M	05	00	38 39 09 36	3370	Per. = 21 Secs. M = 10
	Poona	Z,N,E N N,E N N,E	eP PPP eS PcS Lq M	05	01	08 41 26 27 39 42	3630	Slight.
	Bokaro	N,E	eP e e M	05	01	15 43 19 11		Slight.
	Bombay	N,E N E	eP eS iS	05	01	17 37	3700	Slight. After shock of the preceding great shock.
	New Delhi	N,E	e	05	02	10		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
<u>Mar.</u>						
1955						
23	Dehra Dun	N,E	eP	05 02 21	4430	Slight.
Contd.			PP	03 47		
			PPP	04 04		
			iS	03 26		
			Ps	03 34		
			PPS	03 47		
			SS	11 13		
			Lq	11 37		
			SSS	12 02		
			Ir	13 52		
			M	17 15		
23	Shillong	Z	e	13 54 55		Tremor.
23	Shillong	Z	eP	14 02 06		Slight. Distant.
23	Shillong	Z	e	14 50 49		Slight.
23	Shillong	Z	i	15 15 34		Tremor.
23	Shillong	Z	iP	16 02 00		Slight. Distant.
23	Shillong	Z	e	17 16 08		Tremor.
23	Madras	L	eP	17 29 22		Slight. Other phases not clear.
			M	40 08		
	Poona	Z	eP?	17 29 58		Very feeble shock. Phases not identifiable
	Coimbatore	N,E	e	17 33 42		Very feeble.
			i	41 06		
	Hyderabad	N	e	17 40 16	5510	
			e	42 01		
			e	47 24		Per.= 21 Secs.
			e	18 02 02		= 6
	Dehra Dun	N,E	e	17 41 10		Slight. Phases not clear.
			e	44 51		
			i	49 39		
23	Shillong	Z	iP	2 46 04		Slight. Local.
23	Epc: 102° N, 124° E; - H = 22h 27m 16s (U.S.C.G.S) Felt at abjao, Iloilo (Manila).					
	Shillong	Z	iP	22 34 01		Moderate. Distant. Phases doubtful.
	Poona	Z	i	22 35 08		Tremor.
	Madras	L	iP	22 35 21		Slight. Other phases not clear.
			i	37 01		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
24	Shillong	Z	iP	00	38	22		Slight. Distant. Phases not identifiable.
24	Shillong	Z	eP	04	46	20		Slight. Distant.
24	Shillong	Z	e	05	21	30		Tremor.
24	Shillong	Z	iP	16	17	14		Slight. Distant. Phases doubtful.
24	Shillong	Z	iP	18	01	57		Slight
24	Shillong	Z	iP	19	38	35		Slight. Distant.
24	Shillong	Z	eP	20	54	18		Slight. Distant.
24	Dehra Dun	N,E	e	22	41	29		Feeble. Phases not clear.
	Shillong	Z	iP	22	42	41		Moderate. Very distant.
25	Shillong	Z	iP	00	22	36		Slight. Distant.
25	Shillong	Z	iP	02	25	34		Moderate. Distant. Phases doubtful.
25	Shillong	Z	iP	10	33	06		Slight. Near.
25	Shillong	Z	eP* eSg-	17	36	37 36 53	120	Slight.
25	Shillong	Z	iP	18	31	37		Slight.
25	Shillong	Z	eP	20	17	05		Slight.
25	Shillong	Z	eP	20	18	50		Slight.
25	Shillong	Z	eP	22	02	22		Slight. Near.
25	Shillong	Z	eP	23	01	47		Slight.
25	Shillong	Z,E	eP	23	09	05		Slight.
25	Shillong	Z,E	eP eS	23	50	18 51 19	580	Slight.
26	Shillong	Z	e e	03	21	31 21 58		Slight.
26	Shillong	Z	e i	09	06	41 06 52		Slight.
26	Shillong	Z	e	13	05	33		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
26	New Delhi	N,E E	eP PP PPP Lq N,E eS SS Lr i E i	20	51	05 13 21 45 55 07 11 26 51	1070	Slight.
	Dehra Dun	N,E	e	20	52	38		Tremor.
27	Shillong	Z	e	06	58	04		Feeble.
27	Shillong	Z	eP	09	43	07		Slight.
27	Shillong	Z	eP i	10	16	58 59		Slight.
27	Shillong	Z	e	11	30	31		Feeble.
27	Shillong	Z	eP Pg eSg SS	12	12	29 39 50 59	160	Slight.
27	Shillong	Z	eP e	14	05	17 13		Slight. Distant.
27	Epc: 29° N, 90° E; In Eastern Tibet; - H = 14h 38m 53s (Shillong); 30° N, 90° E; - H = 14h 38m 44s (U.S.C.G. S); 29.9° N, 90.2° E; - H = 14h 38m 45s (B.C.I.S); Magnitude = 6½ (Kiruna); 5.8 (Shillong).							
	Chatra	Z,E	eP iS	14	39	53 38	410	Slight.
	Shillong	Z,N,E N,E	eP P* Pg. Lq iS S* Sg.	14	39	55 02 15 29 44 54 07	460	Moderate.
	Bokaro	N,E	iP PP PPP Lq iS SS SSS M	14	40	32 36 43 39 52 09 22 41	770	Moderate.

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS	
				h.	m.	s.			
<u>Mar.</u>									
1955									
27 Contd.	Dehra Dun	N,E N	eP	14	41	24	1110	Moderate.	
			PP			41			30
			PPP			41			40
			Lq			43			07
			iS			43			18
			SS			43			29
			Lr			43			35
			SSS			43			41
			Sg/M			44			23
New Delhi	N,E E N,E N	N,E	eP	14	41	21	1180	Slight.	
			PP			41			38
			PPP			41			45
			iS			43			30
			SSS			43			51
			M			44			58
Colombo	E	E	e	14	42	25		Amp.= 0.7mm	
			S			48			35
			L			57			05
			M			15			00
Hyderabad	N,E E	N,E	iP	14	42	36	1660	Per.= 9 Secs. /u = 2	
			iS			45			24
			L			46			18
			e			47			06
			M			48			50
Poona	Z	Z	eP	14	43	04	1980	Moderate.	
			PP			43			18
			PPP			43			29
			eS			46			21
			SS			46			25
			SSS			46			50
			Lr			47			08
			PcP			47			52
			M			48			28
Madras	E	E	iP	14	43	07	2040	Moderate.	
			PP			43			26
			PPP			43			36
			i			44			45
			iS			46			30
			SS			46			59
			Lr/PcP			47			24
			M			48			52
Bombay	N,E N N,E E N E N,E N	N,E	eP	14	43	13	2050	Moderate. Per.= 13 Secs. /u = 47	
			PP			43			21
			PPP			43			33
			e			46			26
			eS!			46			36
			iS!						
			Lq			46			40
			SS			46			52
			SS			47			03
			SSS			47			26
			M			49			37.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
27	Kodaikanal	E	eP	14	43	53	2730	Slight.
Contd.			iS		48	08		
			Lq		48	53		
			Lr		49	05		
			M		51	05		
27	Shillong	Z	e	17	49	45		Slight.
27	Shillong	Z	e	18	40	45		Feeble.
27	Chatra	Z	iP	18	43	48	410	Feeble.
			iS		44	33		
	Shillong	Z	iP	18	43	56		Slight.
27	Shillong	Z	eP	20	17	11		Slight.
27	Shillong	Z	e	21	03	01		Feeble.
27	Shillong	Z	e	23	51	52		Feeble.
28	Shillong	Z	e	06	05	22		Feeble.
28	Chatra	Z	iPg	08	20	24	70	Feeble.
			iSg		20	33		
28	Chatra	Z	iPg	08	39	06	70	Feeble.
			iSg		39	15		
28	Hyderabad	E	e	09	10	17		
			e		40	56		
								Per. = 22 Secs.
								/u = 10
28	Epc: 29° N, 130° E; - H = 09h 12m 10s (Shillong);							
	29° N, 130° E; - H = 09h 12m 09s (U.S.C.G.S);							
	29.4° N, 130° E; - H = 09h 12m 20s (CMO Japan);							
	Magnitude = 6-6½ (Kiruna); 6½ (Praha).							
	Shillong	Z,N	ePi	09	18	54	3740	Moderate.
		E	iPi					
		Z	i		18	56		
		E	i		19	09		
			PP		20	19		
			iS		24	17		
		N	eS					
		N,E	SS/Lq		26	15		
			Lr		27	09		
		N	i		29	37		
		N,E	M		30	15		

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
28 Contd.	Dehra Dun	N,E N	eP	09	20	29	4720	Moderate.
			PP			14		
			PPP			22 42		
			iS			26 52		
			PS			27 03		
			PPS			27 11		
			SS			30 19		
			Lq			30 45		
			SSS			31 05		
			Lr			32 42		
			M			36 31		
	Madras	E	eP i	09	20	59		Slight.
	Poona	Z N	iP PP PPP eS M	09	21	23	5780	Moderate.
	Bombay	N	e	09	21	46		Feeble.
	Colombo	E	L M	09	39	40		Trace overlapping. Amp.= 0.4mm
28	Shillong	Z	e	09	29	18		Feeble.
28	Poona	Z	eP	14	54	45		Tremor.
	Shillong	Z,E	eP	14	55	57		Slight.
28	Shillong	Z,E E N,E	eP e e(M?)	15	08	18 28 20		Slight. Distant.
28	Shillong	Z	e	21	08	31		Slight.
	Poona	Z	eP	15	10	04		Tremor.
30	Chatra	Z	iP iS	05	02	24 01	940	Slight.
	Bokaro	N	e i i i	05	06	37 18 26 26		Feeble.
30	Shillong	Z	P Sg	07	27	23 47	180	Slight. Near.
30	Shillong	Z	eP	10	33	43		Tremor.
30	Shillong	Z	e	10	53	23		Feeble.

DATE	STATION	COMPT.	PHASE	G. M. T.			△ km.	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
<u>1955</u>								
30	Shillong	Z	iP	12	17	11		Slight.
30	Shillong	Z	iP	13	59	54		Slight. Rarefaction.
30	Shillong	Z	iP	15	45	52		Slight. Rarefaction.
30	Chatra	Z	iP iS	21	41	07 41 27	160	Slight.
	Shillong	Z	iP	21	41	45		Slight. Phases doubtful.
31,	Shillong	Z	e	04	48	44		Tremor.
31	Shillong	Z	iP	07	15	21		Slight. Compression.
31	Shillong	Z	e	09	04	24		Tremor.
31	Dehra Dun	N,E	e	13	24	57		Tremor.
31	Shillong	Z	e	14	12	50		Slight. Local.
31	Shillong	Z	iP	16	37	00		Slight.
31	Chatra	Z	iPg iSg	18	08	44 08 52	60	Feeble.
31	Epc: 7° N, 127° E; - H = 18h 16m 40s (Shillong); 8° N, 124° E; - H = 18h 17m 00s (U.S. C.G.S.); - h = 60 km Ca; - H = 18h 17m 12s (B.C.I.S.); 7°55' N, 124°05' E; - h = 50 km Ca (Manila); Magnitude = 7½ (Lwiro); 7.7 (Praha, Skalnaté Pleso); 7.6 (Hurbanovo); 7½-7¾ (Kiruna); 7½ (Pasadena, Berkeley, Rom); 7¼-7½ (Shillong); 7 (Uppsala). About 425 killed and several million dollars damage to property and agriculture in Ilagan, Ozamis city and lake Lanao area.							
	Shillong	Z,N,E	iP	18	23	57	4120	Great. Rarefaction.
		N	PP		25	14		First movement west.
			PPP		25	44		
			PcP		26	33		
			iS		29	44		
			SS		31	49		
			Lq		32	05		
			SSS		32	56		
			Lr		33	59		
			ScS		34	18		
			M		36	44		
	Bokaro	N,E	iP	18	24	41	4510	Great. Distant.
			PP		26	27		
			PPP		27	08		
			iS		30	51		
			Ps		30	57		

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS	
				h.	m.	s.		
<u>Mar.</u>								
1955								
31	Bokaro Contd. Contd.	N,E	PPS	18	31	00		
			SS		33	43		
			Lq		34	07		
			SSS		34	26		
			ScS		34	33		
			Lr		36	03		
			M		39	35		
						Per. = 30.7 Amp. = 70mm		
Madras	E	iP	18	25	08	4780	Great.	
		PcP		26	46			
		PP		26	59			
		PPP		27	34			
		S		31	34			
Colombo	E	P	18	25	19			
		S		32	01			
		L		41	21			
		M		47	51			
						Amp. = 33mm Trace faint.		
Hyderabad	E	eP	18	25	22	5120		
		iP		25	34			
		N	iP		25	38		
			E	PcP		26		36
				PP		27		20
		E	PPP		28	13		
			PcS		31	01		
	iS			32	20			
	N		iS		32	22		
		E	SS		35	45		
	E		Lq		37	38		
		E	Lr		39	40		
	N		M		43	10		
		N	M		43	53		
							Per. = 20 Secs. /u = 282	
New Delhi	E N E N N,E N	eP	18	25	44	5760	Great.	
		eP		25	50			
		PP		28	00			
		PP		28	02			
		PPP		29	09			
		iS		33	06			
		ScS		35	04			
		SS		35	58			
		SSS		37	38			
		Lr		39	13			
		M		44	06			
Dehra Dun	N,E N	eP	18	25	55	5750	Moderate.	
		PP		27	45			
		PPP		28	38			
		iS		33	16			
		PS		33	18			
		PPS		33	32			
		SS		36	22			
		Lq		37	46			
		SSS		38	03			
		Lr		39	51			
		M		43	41			
						Per. = 9 Secs. /u = 133		

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
Mar. 1955							
31	Poona	Z	iP	18	25	58	5840 Great.
Contd.		E	PcP		26	55	
			PP		27	59	
			PPP		29	00	
			PcS		30	45	
			iS		33	24	
			ScS		35	51	
			SS		36	56	
			SSS		38	47	
			Lr		41	24	
			M		45	53	Per. = 23 Secs. /u = 378.
	Bombay	N	eP				
		E	iP	18	26	19	5870 Moderate to Great.
			PcP		27	03	
		N,E	PP		28	11	
		E	PPP		29	17	
		N,E	iS		33	47	
			SS		37	31	
		E	SSS		39	39	
			Lq		39	54	
			Lr		42	14	
		N	M		47	36	Per. = 19 Secs. /u = 410
		E	M		51	09	
	Kodaikanal	E	eP	18	25	36	5370 Moderate.
			PP		27	32	
			PPP		28	32	
			iS		32	36	
			SS		36	06	
			SSS		37	36	
			M		42	00	Per. = 15 Secs. /u = 60
31	Shillong	Z	iP	19	02	02	Slight.
31	Shillong	Z	iP	19	23	32	Slight.
31	Shillong	Z	iP	19	28	23	Slight.
31	Shillong	Z	eP	19	34	04	Slight.
31	Shillong	Z	iP	19	39	10	Slight. Rarefaction.
31	Shillong	Z	iP	20	38	43	Slight.
31	Epc: 8°N, 124½°E; -H = 20h 52m 39s (U.S.C.G.S.)						
	Magnitude = 6½ - 6¾ (Kiruna); 6¼ - 6½ (Uppsala)						
	Shillong	Z	iP	20	59	40	Slight. Rarefaction.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS					
				h.	m.	s.			km.				
<u>Mar.</u>													
1955													
31 Contd.	Bokaro	N,E	iP	21	00	20	4490	Moderate. Probably after shock of the previous great shock.					
			i?		00	26							
			PP		01	57							
			iS		06	22							
			PS		06	31							
			PP		06	37							
			SS		09	18							
			Lq		09	31							
			SSS		10	01							
			ScS		10	23							
			Lr		11	31							
			M		14	46							
				Colombo	E	P			21	00	51		
						S				07	23		
L		18				41							
M		22				13							
Madras	E		iP	21	00	52	4810	Moderate.					
			PcP		02	26							
			PP		02	41							
			PPP		03	15							
			iS		07	20							
			ScS/SS		10	42							
			Lq		11	20							
			SSS		11	36							
			L		13	31							
			M		18	00							
Hyderabad	E		iP	21	01	05	4920						
			PP		02	55							
			N,E	iS		07			40				
				E	S				11	16			
					Lq				13	46			
	N		Lr		16	55							
			M		19	02							
			M										
Poona	Z	E	eP	21	01	36	5680	Slight.					
			PcP		02	28							
			PPP		04	36							
			eS		08	54							
			ScS		11	05							
			Lr		16	37							
			M		20	54							
Dehra Dun	N,E		e	21	01	38		Feeble. Phases not clear.					
Bombay	N,E		eP	21	01	56	5800	Slight.					
			eS		09	20							
31	Shillong	Z	eP	21	30	35		Slight.					

Per. 16 Secs.
/u = 13.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Mar.</u>								
1955								
31	Shillong	Z	iP	22	01	36		Slight.
31	Poona	Z	eP	23	19	50		Tremor.
31	Shillong	Z	P	23	44	20		Slight.
31	Shillong	Z,E	iP	23	47	52	4000	Slight. Compression. First movement west.
			PPP		49	39		
			iS		53	24		
			ScP		53	3		
			SSS		56	17		
			ScS		57	47		
			M	00	00	40		
31	Madras	E	eP	23	49	01	4860	Slight.
			PPP		51	33		
			iS		55	32		
			PPS		55	46		
			SSS		59	48		
31	Shillong	Z	iP	23	57	53		Slight.

Earthquake Reports

(Non Instrumental Reports)

The following is the list of earthquakes as reported by the Voluntary Observers from different places during the month of March 1955.

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.
Srinagar	07 March	02 25	3	10	VI	N11
Srinagar	11 March	02 48	2	10	VI	N11
Srinagar	12 March	22 14	3	9	VI	N11
Gura	12 March	22 20	1	10	VI	N11

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



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

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min
Bombay	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	To = Tg = 7.0	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	To=0.72 Tg=0.45	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	To = Tg = 7.2	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	To=1.5 Tg=1.5	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	To=1.0 Tg=0.18	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
Apr. 1955								
01	Shillong	Z	iP	02	45	19		Slight.
01	Shillong	Z	iP	03	16	12		Slight.
01	Shillong	Z	iP	04	51	58		Slight.
01	Shillong	Z	iP	05	15	34		Slight.
01	Shillong	Z	iP	06	13	40		Slight.
01	Shillong	Z	eP	06	19	07		Slight.
01	Shillong	Z	iP	06	38	09		Slight. Rarefaction.
01	Shillong	Z		08	37	39		Slight.
01	Shillong	Z	iP	08	52	45		Slight. Compression.
01	Shillong	Z	e	09	11	39		Tremor.
01	Shillong	Z	e	09	58	26		Tremor.
01	Shillong	Z	iP	17	15	28		Slight. Rarefaction.
01	Shillong	Z	eP	17	59	28		Slight.
02	Shillong	Z	e	04	03	38		Tremor.
02	Shillong	Z	iP	08	29	26	170	Slight.
			S		29	51		
			Sg		29	55		
	Dehra Dun	Z	eP	08	29	40	31c	Feeble.
			iS		30	15		
02	Shillong	Z	iP	08	37	35		Feeble.
02	Shillong	Z	iP	10	34	36		Feeble.
02	Shillong	Z	e	19	15	14		Slight.
			i		15	24		
			i		15	58		
			i		16	15		
03	Shillong	Z	iP	00	02	33		Slight. Rarefaction.
03	Shillong	Z E	eP	01	32	46	390	Feeble. Phases doubtful.
			PPP		33	00		
			S/Lr		33	43		
			SS		33	55		
			SSS		34	05		
			M		34	15		
03	Shillong	Z	e	03	03	33		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
Apr. 1955						
03	Shillong	Z	e i	03 42 21 42 45		Slight, near.
03	Shillong	Z	eP	04 04 44		Slight. Compression.
03	Shillong	Z	iP	04 12 42		Slight. Compression.
03	Shillong	Z	iP Pg S/Lr SS Sg	17 08 01 18 17 18 43 19 02 19 15	380	Slight.
03	Dehra Dun	Z	iPg iSg	13 00 41 00 50	70	Feeble.
03	Shillong	Z	e	16 26 33		Tremor.
03	Dehra Dun	Z	eP iS	21 31 43 32 02	150	Feeble.
03	Shillong	Z	eP	23 21 03		Feeble. Compression.
04	Shillong	Z	e	04 17 08		Tremor.
04	Shillong	Z	e i	04 56 01 56 21		Slight.
04	Shillong	Z E	iP PP PPP S SS SSS M	05 10 33 10 40 11 14 11 27 11 39 11 48 11 50	500	Slight.
04	Shillong	Z	e	07 58 37		Tremor.
04	Epc: 21.8°N, 120.8°E; - H = 1lh 1lm 18s (Shillong), 20°N, 121°E; - H = 1lh 1lm 21s (U.S.C.G.S) Magnitude = 7 (De Bilt), 6.4 (Shillong), 6 (Pasadena), 6 $\frac{3}{4}$ (Kiruna, Praha), 6 $\frac{1}{2}$ (Uppsala) 6 $\frac{1}{4}$ (Lwiro).					
	Shillong	Z E	iP i PP PPP PcP iS i Lq SS SSS Lr M	11 17 05 17 20 17 45 18 01 20 02 21 37 21 56 22 31 22 54 23 20 24 07 26 17	2930	Moderate. Compression. Probable depth=100 km.
						Per. = 14 Secs. μ = 46

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
Apr. 1955						
04 Contd.	Bokaro	N,E	eP	11 17 59	3560	Moderate.
			PP	19 12		
			PPP	19 31		
			iS	23 11		
			Lq	25 12		
			SS	25 29		
			SSS	25 53		
			Lr	26 45		
			ScS	28 19		
			M	29 19		
	Dehra Dun	N,E N	eP	11 18 56	4290	Moderate.
			PP	20 07		
			PPP	20 47		
			iS	24 53		
			SS	27 15		
			Lq	27 41		
			SSS	27 58		
			Lr	29 28		
			M	32 36		
	New Delhi	N,E N	eP	11 18 59	4490	Moderate.
			PPP	21 08		
			PcS	24 36		
			eS	25 08		
			SS	28 13		
			SSS	29 02		
			M	32 56		
	Hyderabad	N	eP	11 19 01	4440	
			PP	20 40		
			PcP	20 54		
			iS	25 07		
			SS	28 19		
			ScS	29 03		
			L	31 43		
			M	35 33		
						Per. = 15 Secs. /u = 26
	Madras	E	iP	11 19 04	4630	Moderate.
			PP	20 46		
			PPP	21 23		
			ScP	24 29		
			iS	25 22		
			PS	25 30		
			SS	28 32		
			ScS	28 41		
			Lq	29 02		
			SSS	29 21		
			Lr	31 18		
			M	36 07		

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DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
04 Contd.	Colombo	E	P	11	19	22	4570	
			S		25	36		
			L		34	26		
			M		38	21		Amp. = 3.0mm
	Poona	Z	eP	11	19	36	4860	Moderate.
		E	PcP		21	12		
			PP		21	22		
			PPP		22	03		
			PcS		24	48		
		N,E	eS		26	07		
		E	Lq		29	46		
			SSS		30	05		
			M		35	42		
		Bombay	N	eP	11	19		
	E		iP					
	E		PP		21	36		
	N,E		PPP		22	08		
	N		eS		26	21		
	E		iS					
	N		PPS		26	31		
	E		PPS		26	36		
	N	SS		29	42			
	Kodaikanal	E	P	11	20	22	4670	Slight.
			PP		22	02		
			PPP		22	47		
			eS		26	42		
			SS		30	07		
			SSS		31	00		
			Lq		30	47		
			Lr		32	58		
	M		36	34				
04	Shillong	Z	e	16	23	03		Tremor.
04	Shillong	Z	e	17	28	24		Tremor.
04	Shillong	Z	Pg	19	07	44	90	Slight.
			Sg		07	54		
04	Shillong	Z	e	19	30	13		Slight.
			i		30	45		
04	Shillong	Z	e	19	54	55		Tremor.
04	Colombo	E	L	20	45	00		
			M		58	58		
								Amp. = 0.4
04	Shillong	Z	e	21	46	53		Tremor.
04	Shillong	Z	i	22	59	14		Slight, local.
	Chatra	Z	iP	22	59	41	390	Feeble
			iS		23	00		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
05	Shillong	Z	iPg Sg	01	23	00 26	220	Slight, near.
	Chatra	Z	eP iS	01	23	16 00	410	Slight.
05	Shillong	Z	e	02	49	51		Slight.
05	Shillong	Z	e	03	15	05		Slight.
05	Shillong	Z	e	05	54	46		Slight.
05	Shillong	Z	e	06	14	45		Very slight. Local.
05	Shillong	Z	e	06	14	57		Very slight. Local.
05	Shillong	Z	e	06	51	17		Slight.
05	Dehra Dun	N	e i	10	33	39 48		Slight. Phases not clear.
05	Epc: 13°N, 142½°E; Mariana Island Region. - H = 11h 23m 17s (U.S.C.G.S).							
	Shillong	E	iP PP PPP S	11	32	07 03 53 07	5370	Slight.
	Bokaro	N,E	e i i	11	32	46 22 54		Slight.
	Madras	E	iP S	11	33	27 40	6690	Moderate. Distant.
	Poona	Z	eP	11	34	04		Tremor.
	Bombay	N,E	eP eS	11	34	10 58	7350	Slight.
05	Shillong	Z	e	13	05	36		Slight.
05	Dehra Dun	N	eP PP PPP eS SS Lr M	13	10	26 40 13 08 51 44 28	4040	Slight.
05	Shillong	Z	e	13	54	33		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			Δ	REMARKS
				h.	m.	s.		
Apr. 1955								
05	Epc: 23°N, 121°E; -H = 14h 02m 46s (U.S.C.G.S.)							
	Shillong	E	eP	14	08	25	2920	Moderate.
			e(S)			12 56		
			e	7	14	25		
			e			18 32		
			e			19 22		
			i			20 21		
			i			21 03		
	Bokaro	N,E	eP	14	09	15	3960	Slight.
			PP			10 40		
			PPP			10 59		
			eS			14 51		
			Lq/SS			17 04		
			SSS			17 15		
			Lr			18 51		
			M			21 40		
	Madras	E	iP	14	10	18	4450	Moderate.
			PP			11 51		
			PcP			12 04		
			ScP			15 40		
			iS			16 24		
			i			16 44		
			SSS			20 17		
			M			26 34		
	Colombo	E	P	14	10	35	5110	
			S			17 20		
			L			28 40		
			M			32 20		Amp. = 0.5mm
	Poona	Z	eP	14	10	54		Feeble shock.
		E	i			12 43		Phases not clear.
			i			13 23		
			i			17 29		
	Bombay	E	eP	14	11	01	5300	Slight.
			PP			12 51		
			PPP			13 53		
			eS			17 57		
	Hyderabad	N	M	14	26	06		Per. = 15 Secs. / μ = 7
05	Dehra Dun	N	e	14	29	47		Slight. Phases not clear.
			i			35 31		
			i			40 03		
			i			41 24		
	Poona	N	i	14	30	22		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS	
				h.	m.	s.			km.
<u>Apr.</u>									
<u>1955</u>									
05	Epc: 25°N, 110°W; Gulf of California. - H = 15h 09m 15s (U.S.C.G.S). Magnitude = 7 (Pasadena, Takubaya), 6 $\frac{3}{4}$ -7 (Lwiro), 6 $\frac{3}{4}$ (Praha), 6 $\frac{1}{2}$ (Uppsala).								
	Shillong	Z	e	15	28	28		Slight.	
	Colombo	E	P	15	29	14		Amp. = 0.6mm	
			L	16	26	00			
			M	35	05				
	Madras	E	eP	15	29	31		Moderate. Distant.	
			i	32	51				
	Poona	Z,N,E	i	15	30	59		Slight. Very distant shock. Phases not clear.	
			N	i	34	05			
				i	54	41			
				i	16	09	03		
				i	34	02			
	Bokaro	N,E	e	15	31	11	11140	Slight. Very distant.	
			PP	35	30				
			PPP	37	47				
			SKS ₁	41	47				
			SKKS ₁	42	28				
			iS ₁	42	56				
			PS	44	36				
			PPS	45	36				
			SS	50	19				
			SSP	50	26				
			SSS	54	11				
			Lq	57	32				
			Lr	16	04	26			
			M	09	36				
	Hyderabad	N	M	16	17	46		Per. = 24 Secs. /u = 24	
05	Shillong	Z	e	17	03	38			
06	Shillong	Z	e	05	49	34		Slight.	
06	Shillong	Z	e	10	30	21		Slight.	
06	Shillong	Z	e	10	4	46		Slight.	
06	Bokaro	N,E	eP	11	39	10	6770	Slight. Distant. Probably deep.	
			iS	47	27				
			PPS	48	31				
			SS	51	44				
			SSS	54	52				
			Lq	56	25				
			Lr	59	37				
			M	12	05	10			

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DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
Apr. 1955						
06	Shillong	Z	e	11 43 32		Slight.
Contd. 06	Epc: 17.3°S, 66°E; Mascarene Island Region. - H = 12h 50m 48s (Shillong). 17½°S, 66°E; - H = 12h 50m 50s (U.S.C.G.S) Magnitude = 5½-6 (Lwiro), 5½ (Kiruna).					
	Colombo	E	P	12 56 42	3010	
			S	13 01 20		
			L	02 38		
			M	04 14		Am. = 2.5mm
	Kodaikanal	E	eP	12 57 00	4700	Slight.
			S	13 03 22		
			SS	06 24		
			Lq	06 40		
			Lr	08 50		
			M	11 40		
	Madras	E	P	12 57 33	3700	Moderate.
			PP	58 43		
			PPP	59 02		
			PcP	59 57		
			iS	13 02 53		
			ScP	03 29		
			SS/Lq	05 15		
			SSS	05 31		
			Lr	06 44		
			ScC	07 42		
			M	10 27		
	Poona	Z	iP	12 57 59	4110	Moderate.
		N	PP	59 19		
			PPP	59 42		
			PcP	13 00 16		
		N,E	iS	03 45		
		N	SS	06 14		
			Lr	07 40		
			M	10 35		
	Hyderabad	N	iP	12 58 03	4000	
			PP	59 12		
			iS	13 03 42		
			SS	06 09		
			L	09 04		
			M	12 37		
	Bombay	N,E	iP	12 58 03	4150	Moderate.
			PP	59 25		
			PPP	59 45		
			iS	13 03 51		
		E	Lq	06 32		
			Lr	08 07		

DATE	STATION	COMPT.	PHASE	G. M. T.			Δ	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
06	Bokaro	N,E	eP	12	59	15	5310	Moderate.
Contd.			PcP	13	00	42		
			PP	00	59			
			PPP	01	55			
			iS	06	12			
			PS	06	19			
			PPS	06	23			
			SS	09	06			
			Lq	10	06			
			SSS	10	25			
			Lr	11	59			
			M	16	06			
	New Delhi	N,E	iP	12	59	30	5110	Moderate.
		N	PP	13	01	15		
			eS	06	15			
			M	16	02			
	Dehra Dun	N	eP	12	59	37	5400	Moderate.
			PP	13	01	16		
			PPP	02	29			
			iS	06	42			
			PS	06	55			
			PPS	07	01			
			SS	10	19			
			SSS	11	32			
			Lr	13	55			
			M	17	51			
	Shillong	E	eP	12	59	42	5480	Moderate.
			PP	13	01	42		
			PPP	02	51			
			S	06	49			
			CS	10	09			
06	Shillong	Z	e	17	33	27		Slight.
06	Epc: 34.3°S, 84.3°E; In Indian Ocean. - H = 19h 48m 46s (Shillong). 33.2°S, 87°E; - H = 19h 48m 46s (U.S.C.G.S). Magnitude = 6 (Kiruna).							
	Colombo	E	P	19	56	36	4120	
			S	20	02	23		
			L	06	06			
			M	09	56			Amp. = 0.9mm
	Madras	E	eP	19	57	21	5250	Moderate.
			PcP	58	29			
			PP	59	11			
			PPP	20	00	04		
			eS	04	15			
			PPS	04	29			
			ScS	06	44			
			SS	07	41			
			Lq/SSS	09	22			
			M	15	56			

DATE	STATION	COMPT.	PHASE	G. M. T.			Δ	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
06 Contd.	Hyderabad	N	iP	19	57	55	5630	
			PcP		58	22		
			PP		59	50		
			iS	20	05	10		
			SS		08	42		
			L		15	07		
			M		18	16		
							Per. = 15 Secs.	
							$\mu = 7$	
Poona	Z	N	iP	19	58	10	5960	Moderate
			PcP		59	01		
			PP	20	00	13		
	N, E	N	PPP		01	27		
			iS		05	43		
			ScS		07	45		
			SS		09	31		
			Lr		14	17		
			M		18	19		
			Bombay					
N, E	N	E	eP	19	58	15	6050	Moderate.
			eS	20	05	53		
			iS					
Bokaro								
N, E	N, E	iP	19	58	33	6440	Moderate.	
		PP	20	00	44			
		PPP		02	03			
		iS		06	33			
		PS		06	44			
		PPS		06	55			
		SS		10	25			
		SSS		11	44			
		Lq		12	25			
		Lr		15	11			
		M		20	14			
Shillong								
E	E	iP	19	58	50	6660	Moderate.	
		PP	20	00	58			
		PPP		02	22			
		S		07	01			
		ScS		08	08			
		SSS		13	22			
		Lr		16	52			
New Delhi								
N, E	N, E	iP	19	59	13	6950	Moderate. Direction of first movement East.	
		i		59	31			
		iS	20	07	40			
		ScS		08	54			
		S		11	46			
		Lq		14	48			
		M		22	30			

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
06	Dehra Dun	N,E	eP	19	59	23	7110	Moderate.
Contd.		N	PP	20	01	47		
			i		07	59		
			i		08	20		
			i		12	29		
			i		15	37		
			i		18	46		
			i		24	13		
	Kodaikanal	E	eS	20	03	35		
06	Shillong	Z	e	21	07	37		Slight.
06	Chatra	Z	iPg	23	51	03	90	Feeble.
			iSg		51	15		
07	Shillong	Z	eP	04	20	38		Slight.
07	Bombay	N	e	08	56	28		
07	Shillong	Z	ePg	10	17	54		Local.
07	Shillong	Z	e	11	54	48		Slight.
07	Shillong	Z	e	16	21	21		Slight.
07	Shillong	Z	e	22	55	23		Slight.
07	Shillong	Z	e	22	59	11		Slight.
07	Dehra Dun	E	e	23	32	17		Tremor.
08	Shillong	Z	Pg	01	04	41	100	Local.
			Sg		04	52		
	Chatra	Z	iP	01	10	01	290	Feeble.
			iS		10	34		
08	Shillong	Z	Pg	02	08	54		Local.
08	Shillong	Z	e	03	14	22		Slight.
08	Madras	E	iP	03	15	32		Slight. Near.
			e		17	17		
08	Shillong	Z	e	06	13	54		Slight.
08	Shillong	Z	e	07	14	23		Slight.
08	Shillong	Z	e	09	49	23		Slight.
08	Shillong	Z	e	10	32	35		Slight.
08	Shillong	Z	e	11	21	19		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
1955								
08	Shillong	Z	e	13	46	51		Slight.
08	Shillong	Z	e	16	30	52		Slight.
09	Shillong	Z	iP	05	05	18		Slight.
09	Shillong	Z	e	06	44	23		Slight.
09	Shillong	Z	iP	06	45	09		Slight.
09	Dehra Dun	N,E	e	10	41	21		Feeble. Phases not clear.
	Shillong	Z	iP	10	42	50		Slight.
09	Shillong	Z	e	15	30	25		Slight.
09	Poona	Z	iP	15	41	24		Tremor.
	Shillong	Z	e	15	41	31		Very slight.
09	Shillong	Z	e	15	49	31		Slight.
	Poona	Z	iP	15	50	27		Tremor.
09	Shillong	Z	e	19	25	36		Slight.
09	Shillong	Z	e	21	15	36		Slight. Local.
10	Bokaro	N,E	e	08	24	49		Feeble.
			e		27	16		
			e		29	14		
			i		49	40		
10	New Delhi	N,E	eP	14	47	00	5350	Moderate.
		N	iS		53	59		
			ScS		56	51		
			i		57	47		
			SSS		58	40		
10	Epc: 10°N, 124.9°E; Mindanao Island Region. Philipines. - H = 17h 38m 20s (Shillong). 8°N, 125°E; - H = 17h 38m 12s (U.S.C.G.S). Magnitude = 6½ (Pasadena, Kiruna), 6¼-6½ (Uppsala), 6 (Praha).							
	Shillong	Z	eP	17	45	15	3810	Moderate. After shock
		E	PP		46	43		of the shock of 31st
			iS		50	42		March '55.
			Lr		18	01	20	

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DATE	STATION	COMPT.	PHASE	G. M. T.			Δ	REMARKS
				h.	m.	s.	km.	
<u>Apr.</u>								
<u>1955</u>								
10	Bokaro	N,E	iP	17	45	52	2760	Moderate.
Contd.			PP		47	27		
			PPP		47	55		
			iS		51	55		
			PS		52	01		
			PPS		52	08		
			SS		54	40		
			Lq		54	51		
			SSS		55	14		
			Lr		56	48		
			M	18	00	05		
	Colombo	E	P	17	46	20	4990	
			S		52	58		
			L	18	04	12		
			M		07	45		Amp. = 1.0mm
	Madras	E	iP	17	46	22	4820	Moderate.
			i		46	55		
			PcP		48	00		
			PP		48	14		
			PPP		48	46		
			ScP		51	47		
			iS		52	51		
			SS		56	01		
			i		56	18		
			Lq		56	3		
			SSS		56	55		
			M	18	02	30		
	Hyderabad	E	.	17	46	36	5070	
			PP		48	31		
		N,E	iS		53	19		
		E	PS		53	30		
			SS		56	19		
			Lq		56	41		
			Lr		59	26		
			M	18	05	08		Per. = 15 Secs. /u = 10
		N	M		05	08		Per. = 16 Secs. /u = 8
	Kodaikanal	E	P	17	46	41	5190	Slight.
			PP		47	33		
			PPP		49	21		
			S		53	31		
			SS		56	42		
			SSS		58	06		
			Lq		58	51		
			Lr		59	51		
			M	18	03	46		

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.		
Apr. 1955						
10 Contd.	Dehra Dun	N,E N	P PP PPP iS PS PPS SS Lq SSS Lr M	17 47 04 48 42 49 57 53 58 54 09 54 17 56 49 58 01 58 25 18 00 30 04 24	5250	Moderate.
	Poona	Z E N,E N	PP PPP iS PPS ScS SSS Lr M	17 47 12 49 07 50 08 54 21 54 37 57 01 59 10 18 01 06 06 51	5510	Moderate.
	Bombay	N,E E N E N	eP e PP PPP iS eS PPS e	17 47 21 48 38 49 18 50 24 54 34 54 56 55 02	5590	Moderate. Somewhat deep.
10	Chatra	Z	eP	21 35 39	200	Feeble.
11	Shillong	Z	eP	01 00 49		Slight.
11	Shillong	Z	Pg Sg	01 16 18 16 28	90	Very slight.
11	Shillong	Z	e	01 19 41		Slight.
11	Shillong	Z	e	06 38 41		Slight.
11	Shillong	Z	e	09 37 28		Slight.
11	Chatra	Z	iP iS	13 40 01 40 25	200	Feeble.
11	Shillong	Z	eP	16 30 31		Slight.
11	Shillong	Z	eP	16 36 28		Slight.
11	Shillong	Z	e	18 08 33		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.		REMARKS
				h. m.	km.	
<u>Apr</u>						
1955						
12	Shillong	Z	iP iS	00 51 47 52 20	300	Slight.
	Chatra	Z	eP iS	00 52 52 54 12	770	Feeble.
12	Shillong	Z	iP	05 41 28		Tremor.
12	Dehra Dun	N,E	e	07 08 28		Tremor.
12	Shillong	Z	eP	13 42 03		Moderate distant. Phases doubtful.
	Madras	E	iP e	13 43 15 49 30		Probably distant.
12	Shillong	Z	eP	18 13 48		Slight. Distant.
12	Shillong	Z	eP	23 07 53		Slight. Distant. Phases unidentified.
13	Shillong	Z	eP i i	09 52 18 54 24 55 00		Moderate. Distant.
13	Shillong	Z	e	10 26 23		Tremor.
13	Shillong	Z,E E	iP i i iS?	11 46 01 46 21 46 52 50 41	3050	Moderate. Distant.
13	Shillong	Z,E	iP Pg iSg SS SSS	14 52 02 52 06 52 27 52 41 52 48	180	Slight. Local.
	Chatra	Z	eP iS	14 52 50 54 08	750	Feeble.
13	Epc: $37\frac{1}{2}^{\circ}$ N, 22° E. In Greece. - H = 20h 45m 45s (U.S.C.G.S) $37\frac{1}{4}^{\circ}$ N, $22\frac{1}{4}^{\circ}$ E. - H = 20h 45m 45s (B.C.I.S) Magnitude = 6.3 (Jerusalem), $6\frac{1}{4}$ (Uppsala, Kiruna), $5\frac{3}{4}$ (Athens), $5\frac{1}{4}$ (Praha).					
	Poona	Z	iP	20 54 33		Tremor.
	Shillong	Z	iP	20 55 47		Moderate. Distant.
14	Epc: 32.4° N, 76.1° E. In Northern India. - H = 01h 00m 40s (Shillong) - H = 01h 00m 46s (USCGS).					

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
<hr/>							
Apr.							
1955							
14	Dehra Dun	N, E	eP	01	01	26	300 Moderate.
Contd.		N	P*		01	30	
			PP		01	33	
			Pg		01	35	
			PPP		01	40	
			Lq		01	48	
			Lr		01	55	
			iS		01	59	
			S*		02	03	
			Sg		02	07	
			SS		02	10	
			SSS		02	23	
	New Delhi	N	iP	01	01	47	4110 Slight.
			Pg		02	00	
			i		02	09	
			Lq		02	22	
			iS		02	32	
			Sg		02	49	
	Chatra	Z, E	eP	01	03	25	1250 Slight.
			iS		05	33	
	Poona	Z	iP	01	04	04	1600 Moderate.
		E	PP		04	11	
			PPP		04	17	
			Lq		06	38	
			iS		06	46	
			SS		07	00	
			SSS		07	11	
			M		08	36	
			PcP		09	07	
	Bombay	N	e	01	04	14	Feeble.
			e		06	44	
	Shillong	Z, E	iP	01	04	18	1700 Slight.
		E	PP		04	30	
			PPP		04	38	
			eS		07	12	
			SS		07	24	
			SSS		07	41	
			Lr		08	22	
			M		09	27	
	Madras	E	iP	01	05	21	2120 Slight.
			PP		05	48	
			iS		08	51	
			SS		09	17	
			SSS		09	30	
			M		11	05	

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
Apr. 1955						
14	Bokaro	N, E	eP	01 05 40	890	Moderate.
Contd.			Lq	07 03		
			eS	07 12		
			SS	07 23		
			SSS	07 34		
			M	08 04		
	Hyderabad	E	e	01 06 18		
			e	07 57		
	Kodaikanal	E	e?	01 09 46		Moderate.
14	Epc: 30.4° N, 102.4° E. In Sinkiang Province, China.					
	- H = 01h 28m 54s (Shillong).					
	30° N, $101\frac{1}{2}^{\circ}$ E; - H = 01h 28m 58s (U.S.C.G.S).					
	Magnitude = 8.2 (Praha), $7\frac{5}{4}$ (De Bilt), 7.7 (Hurbanovo),					
	$7\frac{1}{4}$ (Pasadena), $7-7\frac{1}{4}$ (Uppsala, Kiruna) 7 (Berkeley, Lwiro),					
	$6\frac{5}{4}-7$ (Jerusalem).					
	Shillong	Z, N, E	iP	01 31 22	1110	Great.
		N	PP	31 33		
			PPF	31 48		
			Lq	33 04		
			iS	33 16		
			SS/Lr	33 30		
			SSS	33 41		
			M	34 41		
	Chatra	Z, E	eP	01 32 09	1500	Feeble.
			iS	34 41		
	Bokaro	N, E	iP	01 32 40	1860	Great.
			iS	35 46		
			SS	36 05		
			SSS	36 18		
			M	37 54		
	Dehra Dun	N, E	eP	01 33 43	2350	Moderate.
		N	PP	37 03		
			PPP	34 12		
			iS	37 34		
			Lq	37 46		
			SS	38 06		
			SSS	38 22		
			Lr	38 42		
			M	40 28		
	New Delhi	N, E	iP	01 33 51	2280	Slight.
		N	PP	34 15		
			PPP	34 25		
			iS	37 36		
			Lq	37 47		
			Lr	38 58		
			M	39 58		

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
<u>Apr.</u>						
1955						
14	Hyderabad	E	iP	01 33 55	2850	
Contd.			PcP	37 36		
			iS	38 21		
			L	40 03		
			M	45 39		Per. = 22 Secs. $\mu = 466$
	Madras	E	iP	01 34 40		Great. Other phases lost due to large movement of light spot.
	Poona	Z	eP	01 34 51	3140	Very great.
		N	PP	35 32		
			PPP	35 49		
			PcP	38 03		
			iS	39 37		
			SS	40 51		
			SSS	41 16		
			M	44 00		
	Bombay	N,E	iP	01 35 02	3220	Great.
			iS	39 53		
		N	Lq	41 24		
			SS?	41 31		
			SSS	41 50		
			Lr	42 42		
			M	44 46		
	Kodaikanal	E	P	01 35 17		Moderate.
			PP	36 35		'S' lost in record.
			PPP	36 56		
			S			
			SS	42 53		
			SSS	43 22		
			Lr	44 37		
			M	47 23		
	Colombo	E	P	01 46 --		'P' approx. Trace very faint.
14	Shillong	Z	iP	02 04 13		Moderate. Phases doubtful.
14	Shillong	Z	iP	04 19 06		Slight. Distant.
14	Shillong	Z	i	06 15 59		Tremor.
14	Shillong	Z	i	06 31 16		Tremor.
14	Shillong	Z	e	10 23 43		Tremor.
15	Dehra Dun	N,E	e	17 31 19		Tremor.

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
						km.	
<u>Apr.</u>							
1955							
15	Epc: 39.5°N, 76.5°E. In Kirghiz of U.S.S.R						
				- H = 03h 41m 05s (Shillong).			
			40°N, 74½°E;	- H = 03h 40m 52s (U.S.C.G.S). Felt at			
				Rawalpindi.			
			Magnitude =	7.5 (Praha, De Bilt), 7½ (Jppsala, Lwiro),			
				7.1 (Hurbanovo), 7 (Pasadena, Kiruna, Jerusalem),			
				6.8 (Shillong).			
	Dehra Dun	N,E	eP	03	43	18	1050 Moderate.
		N	PP		43	25	
			PPP		43	32	
			Lq		44	55	
			iS		45	06	
			SS		45	19	
			Lr		45	26	
			SSS		45	32	
			S*		45	43	
			Sg/M		46	13	
	New Delhi	N	iP	03	43	40	1170 Moderate. First
			PP		43	48	ground motion.
			iS		45	40	
			SSS		46	04	
			M		46	52	
	Bokaro	N,E	iP	03	45	10	1940 Great.
			iS/Lq		48	23	
			SS		48	42	
			SSS		48	45	
			M		50	40	
	Shillong	Z,N,E	iP	03	45	32	2110 Great.
		N	PP		45	51	
			PPP		46	02	
			iS		49	00	
			Lq?		49	07	
			SS		49	28	
			SSS		49	58	
			Lr		50	06	
			M		51	28	
	Poona	Z	iP	03	45	42	2410 Great.
		N	PP		46	08	
			PPP		46	25	
			iS		49	38	
			SS		50	20	
			SSS		50	38	
			Lr		50	59	
			M		53	13	
	Bombay	N,E	iP	03	45	42	2330 Moderate to great.
			PP		46	13	
			iS		49	32	
		E	M		53	--	
		N	M		54	55	
							Per. = 13 Secs. /u = 272.

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
<u>Apr.</u>							
1955							
15 Contd.	Hyderabad	N,E	iP	03	45	54	2560
		N	ScS	49	32		
		N,E	iS	50	02		
Madras	E	eP		03	46	39	2900 Great.
		PPP		47	42		
		PcP		49	50		
		iS		51	09		
Kodaikanal	E	P		03	47	11	3120 Great.
		PP		48	06		
		PPP		48	32		
		S		52	01		
		Lq		53	11		
		SS		53	36		
		SSS		53	51		
		Lr		54	45		
	M		57	09		Per.= 9Secs. /u=101.1	
Colombo	E	P		03	47	--	
		M		04	32	--	Amp.= 22mm.
15	Epc: 40°N, 75°E. In Kirghiz of U.S.S.R. - H = 04h 13m 23s (U.S.C.G.S) Felt at Rawalpindi. Magnitude = 7.4 (Praha), 7 (Kiruna, Uppsala), 6½ (Jerusalem).						
Dehra Dun	N,E	eP		04	13	35	1320 Moderate.
		N	PP	13	44		
		PPP		13	50		
		Lq		15	40		
		iS		15	50		
		SS		16	02		
		Lr/SSS		16	14		
	Sg/M		17	12			
Bokaro	N,E	iP		04	17	48	1980 Great.
		iS		21	05		
		SSS		21	39		
		M		23	24		
Shillong	Z,N,E	iP		04	17	53	2220 Moderate.
		PP		18	12		
		PPP		18	23		
		iS		21	33		
		Lq		21	37		
		SS		21	55		
		SSS		22	17		
		Lr		22	39		
	M		24	31			
Poona	Z	eP		04	18	13	Moderate.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
<u>1955</u>								
15 Contd.	Bombay	N,E	eP	04	18	18	2430	Moderate. After shock of the great previous shock.
		E	iS M		22 25	16 00		
	Hyderabad	N	iP	04	18	35	2450	Per. = 8 Secs./u = 7.3 Per. = 8 Secs./u = 68
		N,E	iS		22	35		
		N	L		24	16		
			M		2	12		
		E	M		26	12		
	Shillong	Z	iP	06	17	03	50	Slight. Local.
			Pg		17	04		
			e?		17	06		
			Sg		17	09		
			PPP		17	20		
			SSS		17	37		
16	Chatra	Z	eP	07	18	08	750	Feeble.
16	Shillong	Z	iP	07	24	17		Tremor.
16	Shillong	Z	iP	07	33	53	50	Slight. Local.
			e?		33	55		
			Sg		33	58		
16	Shillong	Z	eP	12	37	38		Moderate. Distant. Phases doubtful.
16	Shillong	Z	eP	21	50	28		Slight. Distant.
16	Dehra Dun	N,E	e	22	13	11		Tremor.
17	Epc: 26.7°N, 90.7°E. - H = 03h 49m 32s (Shillong)							
	26½°N, 90°E. - H = 03h 49m 32s (U.S.C.G.S). Magnitude = 4½ (Shillong).							
	Shillong	Z,N,E	iP	03	50	00	170	Slight. Local.
			iPg		50	02		
			PP		50	07		
			PPP		50	13		
			iSg		50	21		
			SS		50	31		
			SSS		50	42		
	Chatra	Z,E	eP	03	50	30	400	Slight.
			iS		51	14		
	Bokaro	N,E	eP	03	51	02	460	Slight.
			PP		51	08		
			PPP		51	17		
			eS		51	51		
			M		52	21		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	RE MARKS				
				h.	m.	s.			km.			
<u>Apr.</u>												
1955												
17 Contd.	Dehra Dun	N,E N	eP	03	52	28	1190	Moderate.				
			PP		52	36						
			PPP		52	42						
			Lq		54	17						
			iS		54	30						
			SS		54	42						
			Lr		54	50						
			Sg/M		55	39						
	New Delhi	N	eP	03	52	29	1250	Slight.				
			eS		54	37						
			Lr		54	57						
			M		55	57						
	Hyderabad	E	eP	03	53	05		Per. = 4 Secs./u = 2.				
			iS		55	27						
			M		57	23						
	Madras	E	iP	03	53	26	1770	Slight.				
			PP		53	35						
			PPP		53	44						
			i		53	57						
			iS		56	23						
			SS		56	48						
			SSS		57	00						
			Lr		57	13						
			M		58	54						
	Poona	Z	eP	03	53	39	1920	Slight.				
			PP		53	49						
			PPP		54	03						
			eS		56	51						
			SS		57	11						
			Lr		57	37						
			M		58	37						
	Bombay	N	e	03	57	13		Near and feeble.				
			e		58	16						
			e		59	00						
17	Shillong	Z	iP	15	43	25		Moderate. Distant. Phases doubtful.				
17	Epc: 54°N, 163°E. Off South coast of Kamchatka. - H = 18h 35m 16s (Shillong). 52°N, 159½°E. - H = 18h 35m 27s (U.S.C.G.S). - h = 60 km. Magnitude = 7.1 (Praha), 7 (De Bilt, Lwiro), 6¾-7 (Roma), 6¾ (Pasadena, Kiruna), 6¼-6½ (Uppsala), 7 (Shillong).											
	Shillong	Z,N,E N	iP	18	45	11	6450	Moderate.				
			PP		47	22						
			PPP		48	44						
			iS		53	11						
			PS		53	22						

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DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS			
				h.	m.	s.			km.		
<u>Apr.</u>											
1955											
17 Contd.	Shillong Contd.	N	SS	18	57	00					
			Lq		59	22					
			SSS		59	44					
			Lr	19	02	14					
			M		07	07					
	Bokaro	N,E	iP	18	45	43	6950	Moderate.			
			PcP		46	13					
			PP		48	05					
			PPP		49	35					
			iS		54	10					
			PS		54	21					
			PPS		54	36					
			SS		58	21					
			SSS	19	00	58					
			Lq		01	47					
			Lr		04	39					
			M		07	35					
				Dehra Dun	N,E N	eP	18	45	45	6980	Moderate.
PP		48				04					
PPP		49				30					
iS		54				14					
PS		54				31					
PPS		54				54					
SS		58				39					
SSS	19	01				30					
Lq		02				06					
Lr		04				12					
M		09				14					
								Per. = 14 Secs. / u = 56.			
	New Delhi	N				iP	18	45	54	7040	Moderate.
			PcP		46	28					
			PP		48	15					
			PPP		49	45					
			PcS		50	34					
			eS		54	26					
			PS		54	45					
			SKS		55	42					
			SS		58	40					
			Lq	19	01	40					
			Lr		04	17					
			M		09	37					
				Hyderabad	E	iP	18	46	43	7850	
PcP		47				04					
PP		49				24					
iS		55				57					
PS		56				33					
SS	19	00				58					
Lq		05				11					
Lr		09				24					
M		14				07					
								Per. = 19 Secs. / u = 39			

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
1955								
17 Contd.	Poona	Z	iP	18	46	55	8180	Moderate.
		E	PcP	47	07			
			PP	49	50			
			eS	56	25			
			SKS ₁	56	41			
			ScS ₁	56	49			
			PS	56	59			
			PPS	57	18			
	M	19	16	41				
	Madras	E	iP	18	46	57	8280	Moderate.
			PcP	47	08			
			PP	49	49			
			iS	56	32			
			ScS	56	56			
			PS	57	17			
			PPS	57	33			
			SS	19	01	09		
			SSS	04	10			
			Lq	05	59			
			Lr	10	31			
	M	16	18					
	Bombay	N,E	eP	18	46	58	8160	Moderate.
		N	PcP	47	13			
			e	48	19			
			PPP	51	20			
		N,E	eS	56	27			
		N	PPS	57	07			
			M	19	17	56		
		E	M	23	00			
						Per. = 18 Secs., $\mu = 40$.		
	Kodaikanal	E	e(?)	18	47	14		Tremor.
17	Poona	Z	i	22	55	47		Tremor.
17	Shillong	Z	eP	22	56	10		Tremor.
17	Shillong	Z	iP	23	28	01		Moderate. Distant. Phases doubtful.
18	Shillong	Z	iP	00	13	00		Slight. Distant.
18	Epc: $25\frac{1}{4}^{\circ}$ N, 124° E. - H = 08h 47m 57s (B.C.I.S) - H = 08h 47m 58s (U.S.C.G.S).							
	Shillong	Z,E	iP	08	53	59	4230	Slight. Distant. Phases not clearly developed.
			iS	59	27			
			ScP	19	00	07		
			SS/Lq	01	46			
			Lr	03	30			
			M	06	28			
	Poona	Z	iP	08	56	31		
18	Shillong	Z	iP	14	14	53		Tremor. Phases not clear.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
1955								
18	Shillong	Z	eP	16	27	32		Slight. Distant.
18	Epc: 28°N, 52½°E. Southern Iran. -H= 19h 16m 07s (U.S.C.G.S).							
	Poona	Z, E	iP	19	21	02		Feeble shock. Phases not clear.
	New Delhi	N, E N	eP	19	21	02	2440	Slight.
			eS		25	00		
			Lq		25	31		
			M		28	16		
	Dehra Dun	N, E	eP eS	19	21	32 25 11	2210	Slight. Phases not clear.
	Shillong	Z	iP	19	23	02		Slight. Distant.
18	Shillong	Z	eP	20	31	50		Tremor.
18	Shillong	Z	iP	20	39	44		Moderate. Distant shock. Phases doubtful and also not well developed.
18	Shillong	Z	e	20	47	22		Slight.
18	Chakra	Z	iP iS	22	10	35 10 51	120	Slight.
18	Shillong	Z	e	22	11	16		Moderate. Distant. Phases doubtful and not well developed.
19	Shillong	Z	e	04	32	19		Slight.
9	Shillong	Z	e	07	03	57		Slight.
19	Shillong	Z E	iP	07	35	30	3980	Slight.
			eP					
			PP		36	58		
			eS		41	27		
			Lr		45	55		
			M		49	21		
19	Shillong	Z	i	11	35	20		Slight. Near.
19	Shillong	Z	i	13	05	53		Slight.
	Shillong	Z	i	14	00	29		Slight.
19	Shillong	Z	e	14	11	06		Slight.
19	Shillong	Z	i	14	48	15		Slight. Distant.
19	Shillong	Z	i	15	05	08		Slight.
19	Shillong	Z	i	16	42	33		Slight. Near.
		N	e		43	16		

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
				h.	m.	s.	km.
<u>Apr.</u>							
1955							
19	Epc: $39\frac{1}{2}^{\circ}\text{N}$, 23°E . Near East coast of Greece.						
	- H = 16h 47m 17s (U.S.C.G.S).						
	$39\frac{1}{4}^{\circ}\text{N}$, 23°E . - H = 16h 47m 19s (B.C.I.S).						
	Magnitude = $6\frac{1}{4}$ (Uppsala, Praha, Hurbanovo), 6 (Kiruna),						
	An earthquake of destructive nature took the toll of 27 human lives including complete damage of 3800 houses (Press).						
	Dehra Dun	N,E	eP	16	55	30	Moderate.
		N	e		58	31	
			e		59	55	
			e	17	05	30	
			e		06	05	
			e		10	34	
			M		26	28	
	New Delhi	N,E	iP	16	55	42	5040 Moderate. Direction
		N	PP		57	28	of first movement
			PPP		58	07	south.
			PcS	17	01	11	
			iS		02	23	
			SS		05	15	
			L		06	06	
			Lr		08	21	
			M		12	14	
	Bombay	N,E	eP	16	55	57	5490 Slight.
		E	iP				
		N,E	PP		57	50	
		E	PP		57	55	
		N,E	eS	17	03	04	
		E	iS				
	Poona	Z	iP	16	56		Slight.
			e		56	11	
			e		56	17	
			PP		57	55	
	Bokaro	N,E	iP	16	56	53	6060 Moderate.
			PcP		57	42	
			PP		59	01	
			PPP	17	00	19	
			PcS		01	31	
			PS		04	39	
			PPS		04	50	
			SS		08	27	
			SSS		11	01	
			L		11	05	
			Lr		13	42	
			M		18	31	
	Madras	E	iP	16	57	05	Moderate.
			i	17	02	41	
			e		05	23	

DATE	STATION	COMPT.	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km.	
<u>Apr.</u>						
1955						
19 Contd.	Shillong	Z,N	iP	16 57 1	6470	Slight.
			PP	59 28		
		N	iS	17 05 15		
			PS	05 26		
			PPS	05 46		
			Lq	11 54		
M	19 36					
19	Shillong	Z	e	20 01 12		Slight.
			i	01 32		
19	Epc: 30°S, 72°W. Near coast of central Chile. - H = 20h 24 ^m 05s (U.S.C.GS).					
Poona	Z,N	N	PKP ₁	20 43 47	14420	Moderate.
			PKP ₂	44 00		
			PP	47 05		
			PPP	50 16		
			PKKP ₁	52 46		
			PKKS ₁	56 05		
			SKKS ₁	58 56		
			SS ₁	21 06 24		
			SSP	06 53		
			SSS	11 54		
			Lq	25 48		
			Lr	32 35		
			M	44 47		
			Bombay	E		
ePKP ₁	43 56					
e	45 26					
i	45 46					
e	21 06 19					
e	06 22					
Kodaikanal	E		e	20 43 50		Tremor.
Hyderabad	E	N,E	PP	20 43 58	14980	
			SKS ₂	47 46		
			PKKP ₁	50 04		
			SKKKS	50 57		
			PS	54 24		
			SKKS ₂	57 32		
			SS	21 01 05		
			SSS	06 57		
			Lq	18 23		
			Lr	24 57		
			M	34 17		
						Per. = 20 Secs./u = 26
New Delhi	N,E	N,E	ePKP ₁	20 44 01	17350	Moderate.
			PKP ₂	44 27		
			i	45 01		
			SKKS	54 44		
			i	59 16		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
1955								
19 Contd.	New Delhi Contd.	N,E	PPS	21	01	16		
			i		04	57		
			SS		07	57		
			SSP		08	48		
	Madras	E	iPKP PP	20	44	01	16390	Moderate.
	Shillong	Z,N	ePKP ₁	20	44	06	18450	Moderate.
		N	PKP		45	03		
			PKS ₂		47	35		
		Z,N	PP		49	02		
		N	PPP		53	02		
			SKKS		55	47		
			PPS	21	02	38		
			SS		08	53		
			SSP		10	01		
			SSS		16	03		
			Lq		34	19		
			Lr		42	35		
		M		53	52			
	Dehra Dun	N,E	ePKP	20	44	08		Moderate.
		N	e		49	13		
			e		51	09		
			e		56	12		
			e		58	11		
			e	21	03	25		
			e		08	02		
			e		15	20		
			e		20	31		
			e		28	07		
	Bokaro	N,E	iP	20	44	21		Slight.
			i		48	26		
			i		49	25		
			i		55	13		
19	Shillong	Z	e	22	49	24		Slight.
20	Shillong	Z	e	00	51	35		Slight Local.
			e		52	09		
20	Shillong	Z	eP	01	25	23		Slight.
20	Poona	Z	iP	02	32	13		Feeble shock. Phases not clear.
	Bombay	N,E	i	02	32	18		Feeble.
		E	e		36	01		
	Madras	E	iP	02	32	24		Slight. Other phases not clear.
	Shillong	Z	e	02	32	33		Slight.

DATE	STATION	COMPT.	PHASE	G. M. T.		△	REMARKS
				h.	m.	s.	km.
<u>Apr.</u>							
1955							
20 Contd.	Shillong		eP e	06	09		Slight.
					33	50	
	Poona	Z	iP	06	08	15	Feeble shock. Phases not clear.
	Madras	E	eP	06	08	19	6240 Moderate.
			PcP		09	14	
			PP		10	24	
			PPP		11	41	
			iS		16	08	
			ScS		18	03	
			SS		19	50	
			SSS		22	12	
			Lq		22	22	
			Lr		25	38	
	M		30	22			
	Hyderabad	E	e	06	08	37	
			M		07	08	
	Dehra Dun	N,E	e	06	08	48	Slight. Phases not clear.
			i		12	43	
			i		15	22	
			i		17	35	
			e		20	30	
			i		32	05	
	Bokaro	N,E	e	06	08	50	Slight.
			i?		12	52	
			i		13	16	
			i		19	09	
20	Epc: $44\frac{1}{2}^{\circ}$ N, $83\frac{1}{2}^{\circ}$ E. In Sinkiang Province, China. - H = 08h 13m 35s (U.S.C.G.S).						
	Dehra Dun	N,E N	e	08	17	04	Slight. Phases not clear.
			e		19	33	
			i		22	19	
			i		23	13	
	Shillong	Z N	iP	08	18	04	Slight.
			iP		18	05	
	Poona	Z	iP	08	19	23	Tremor.
	Bokaro	N,E	e	08	21	54	Feeble.
			i		22	09	
20	Epc: 1° N, 126° E. - H = 09h 44m 07s (U.S.C.G.S).						
	Shillong	Z N	iP	09	51	53	Slight.
			e		58	00	
	Bokaro	N,E	e	09	52	30	Feeble.
			i		54	24	

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS	
				h.	m.	s.			km.
<u>Apr.</u>									
1955									
20 Contd.	Madras	E	eP S	09	52	45	2100	Slight.	
	Poona	Z	eP	09	53	38		Tremor.	
	Bombay	E	e e e	09 10 09	56 01 51	17 25 51		Feeble.	
20	Hyderabad	E	M	10	11	35		Per. = 21 Secs./u = 6	
21	Shillong	Z	eP/P*	04	18	40	150	Slight.	
			Pg Z,N,E eSg						18 42 58
21	Poona	Z	iP	06	57	05		Feeble. Phases not clear.	
			i				59 00		
			i				59 10		
21	Epc: $39\frac{1}{2}^{\circ}$ N, 23° E. - H = 07h 18m 17s (U.S.C.G.S). - H = 07h 18m 18s (B.C.I.S).								
	Dehra Dun	N,E N	e i i	07	26	41 33 18 36 20		Feeble. Phases not clear.	
	Bombay	N,E E	eP	07	26	54	5570	Slight. Probably deep.	
			PP						28 48
			eS						34 06
	Shillong	Z,E	eP	07	28	18		Slight.	
	Madras	E	eP	07	28	38	6000	Slight.	
			eP						29 30
			eS						36 13
			PS						36 24
			ScS						37 54
			SS						39 47
			SSS						42 03
			Lq						42 12
			Lr						44 38
			M						51 31
21	Shillong	Z,N,E N,E	iPg	08	33	01	40	Moderate.	
			iSg						33 05
	Chatra	Z	iP	08	33	58	450	Slight.	
			iS						34 46
21	Dehra Dun	N,E	e	08	38	04		Tremor.	
21	Shillong	Z N	iP	09	51	53		Slight	
			e				58 00		
21	Shillong	Z	eP	14	13	47		Slight.	

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u> 1955								
21	Poona	Z	eP	14	18	30		Feeble. Phase not clear.
21	Shillong	Z	e	18	06	09		Slight.
21	Shillong	Z	eP P* S eSg	21	18	53 55 18 20	200	Slight.
22	Shillong	Z	eP	01	22	59		Slight.
22	Shillong	Z	iP	02	55	20		Slight. Compression.
22	Shillong	Z,E N,E E	eP eS SS SSS Lr M	04	13	33 22 42 52 06 06	1680	Slight.
22	Shillong	Z	eP	10	12	18		Slight.
22	Shillong	Z	e i	11	41	53 31		Slight.
22	Shillong	Z	iP	13	39	40		Slight. Rarefaction.
22	Shillong	Z	e i	15	09	06 13		Slight.
22	Shillong	Z	e	16	19	02		Slight.
22	Shillong	Z	iP	16	36	23		Slight. Compression.
22	Dehra Dun	N,E	e	16	37	16		Feeble. Phases not clear.
22	New Delhi	N,E	iP eS	16	37	26 20	6330	Moderate.
22	Poona	Z	iP	16	58	23		Tremor.
22	Shillong	Z	ePg Sg	19	08	40 49	80	Slight.
22	Shillong	Z	ePg eSg	21	34	50 58	80	Slight.
23	Shillong	Z	e	00	26	52		Feeble.
23	Shillong	Z	e	00	36	58		Slight.
23	Dehra Dun	N,E	e i	01	05	13 39		Feeble- Phases not clear.

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u> 1955								
23	Shillong	Z	eP	01	07	41		Slight.
23	Shillong	Z	e	02	38	40		Slight.
23	Bombay	E	e	04	17	44		Slight.
			e		24	12		
23	Poona	Z	eP	04	18	47		Tremor.
23	Shillong	Z	eP	04	44	40		Slight.
23	Shillong	Z	e	08	52	05		Feeble.
23	Bokaro	N,E	ePg	13	33	40	50	Slight. Local.
23	Epc: $27\frac{1}{2}^{\circ}$ N, $139\frac{1}{2}^{\circ}$ E. - h = 500 km Ca. - H = 16h 39m 04s (U.S.C.G.S). Magnitude = $6\frac{1}{4}$ (Uppsala).							
	Shillong	Z	iP	16	46	20		Slight. Distant.
		N	eP					
	Bokaro	N,E	iP	16	47	06	2770	Slight.
			iS		51	23		
			e		52	23		
			i		53	31		
	Madras	E	iP	16	48	09		Slight. Probably deep.
			SS?		55	29		
	Poona	Z	eP	16	48	33		Slight. Phases not clear.
		E	i		56	10		
	Bombay	E	iP	16	48	37	6170	Slight. Probably deep.
			e		50	57		
			iS		56	22		
23	Shillong	Z	i	16	51	06		
		N	e		54	45		
23	Epc: $24\frac{1}{2}^{\circ}$ S, 113° W. - H = 18h 28m 47s (U.S.C.G.S). Magnitude = $6\frac{3}{4}$ (Pasadena, Uppsala), $6\frac{1}{4}$ (Kiruna, Praha), $6-6\frac{1}{4}$ (Iwiro).							
	Shillong	Z,N	eP	18	48	45		Slight. Distant.
		Z	e		52	55		
	Bokaro	N,E	e	18	48	55		Slight.
			e		49	40		
			i		53	09		
	Poona	Z	iP	18	49	00		Slight shock. Phases not clear.
			i		50	19		
			i		54	04		
			i		58	13		

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS	
				h.	m.	s.			km.
<u>Apr.</u>									
1955									
23 Contd.	Madras	E	iPKP	18	49	01		Distant. Phases not clear.	
			i		50	08			
			i		52	34			
			i		53	29			
			i		58	35			
		i	19	04	33				
	Dehra Dun	N,E	e	18	49	01		Slight. Phases not clear.	
			i		53	45			
	Bombay	N,E	i	18	49	02		Distant. Moderate.	
			E	i		50	24		
			e		19	06	24		
23	Shillong	Z	e	19	56	16		Slight.	
23	Poona	Z	iP	20	01	04		Tremor.	
23	Shillong	Z	e	22	11	22		Slight.	
24	Epc: 46°N, 86°E. In the Sinkiang Province, China.								
	- H = 12h 58m 55s (Shillong).								
	45°N, 86°E. - H = 12h 59m 00s (U.S.C.G.S).								
	Magnitude = 6 $\frac{3}{4}$ (Praha), 6 $\frac{1}{2}$ (Kiruna), 5 $\frac{3}{4}$ (Rooma).								
	New Delhi	N,E	iP	13	02	57	1800	Moderate.	
			PP		03	13			
			eS		05	59			
			i		06	07			
			N	M		08	13		
	Shillong	Z	iP	13	03	37	2270	Moderate.	
			N	iP		03	38		
			E	eP		03	38		
			N	iS		07	21		
			M			10	15		
			i			11	52		
	Bokaro	N,E	eP	13	03	51	2250	Moderate.	
			PP		04	08			
			PPP		04	21			
			iS		07	34			
			Lq		07	41			
			SS		08	11			
			SSS		08	22			
			Lr		08	41			
			M		10	20			
			Poona	Z	iP	13	04		54
	E	PP				05	48		
	PPP				08	05			
	PcP				07	56			
	eS				09	40			
	Lq				10	51			
	SS				11	08			
	SSS				11	17			
	Lr				14	06			
	M				16	42			

DATE	STATION	COMPT.	PHASE	G. M. T.		△	REMARKS	
				h.	m. s.			km.
<u>Apr.</u>								
1955								
24 Contd.	Hyderabad	E	iP	13	04 56	3140	Per= 12 Secs. /u = 38.	
			PP		06 09			
			iS		09 42			
			L		13 54			
			M		16 18			
Bombay	E	N,E	eP	13	04 57	3190	Moderate.	
			eP		05 01			
			PP		06 02			
			PPP		06 15			
			e		06 51			
			N	eS				09 50
			E	iS				10 03
				SSS				12 29
				Lr				13 20
			N	M				17 04
Madras	E		iP	13	05 35	3550	Moderate.	
			PP		06 40			
			PPP		07 00			
			i		09 21			
			S		10 47			
			ScP?		11 45			
			SS		13 07			
			SSS		13 30			
			Lr		14 55			
			M		17 58			
Kodaikanal	E		P	13	06 06		Slight. Phases doubtful.	
			e		07 07			
			e		07 29			
			e		11 02			
			e		12 31			
			e		12 46			
			e		13 04			
			e		14 05			
e		16 32						
Colombo	E		P	13	06 21	4220	Amp.= 3.0mm	
			S		12 14			
			L		19 37			
			M		23 19			
24	Epc: 44°N, 83½°E. In Sinkiang Province, China. - H = 14h 11m 42s (U. S. C. G. S).							
New Delhi	N		eP	14	15 33	3780	Slight.	
			eS		20 58			
Shillong	Z		iP	14	16 13		Slight.	
Poona	Z		eP	14	17 29		Feeble shock. Phases not clear.	

DATE	STATION	COMPT.	PHASE	G. M. T.		△	REMARKS
				h. m. s.	km.		
<u>Apr.</u>							
1955							
24 Contd.	Madras	E	eP	14	18	55	3380 Slight.
			eS		23	56	
			SS		26	21	
			SSS		26	39	
			Lr		28	04	
			M		30	35	
24	Bombay	E	e	14	26	21	Feeble.
			e		27	47	
25	Shillong	Z	ePg/P*	02	48	52	110 Slight.
			P		48	53	
			PP		48	59	
			eSg		49	05	
			S		49	08	
			.SS		49	15	
25	Shillong	Z	eP	04	30	15	Slight.
25	Shillong	Z	e	07	13	37	Slight.
25	Madras	E	eP	08	44	00	Slight. Other phases not clear.
25	Shillong	Z	eP	08	58	46	Slight.
25	Shillong	Z	e	12	52	43	Slight.
25	Shillong	Z	e	16	42	38	Slight.
25	Shillong	Z	eP	17	54	12	Slight.
25	Shillong	Z	eP	20	03	48	Slight.
26	Shillong	Z	e	00	18	52	Slight.
26	Shillong	Z	e	01	24	26	Feeble.
26	Bombay	N,E	e	01	41	08	Slight.
			e		44	24	
	Poona	Z	eP	01	41	21	Tremor.
	Shillong	Z	e	01	44	11	Slight.
26	Poona	Z	iP	03	23	07	Tremor.
	Shillong	Z	i	03	23	09	Tremor.
26	Shillong	Z	e	08	46	36	Tremor.
26	Shillong	Z	iP	16	21	54	Compression. Feeble.
27	Bokaro	N	e	06	28	23	Feeble.

DATE	STATION	COMPT.	PHASE	G. M. T.			REMARKS
				h.	m.	s.	
<u>Apr.</u>							
1955							
27	Dehra Dun	N,E N	eP	11	52	27	1070 Slight.
			PP		52	32	
			eS		54	16	
			SS		54	30	
			SSS		54	39	
			Sg/M		55	24	
	Poona	Z	eP	11	54	39	Feeble. Phases not clear.
27	Bombay	E	e	12	00	44	Feeble.
	Madras	E	iP	12	01	23	1490 Slight.
			S		03	54	
27	Shillong	Z	e	12	54	45	Slight. Other phases not clear.
			i		54	49	
27	Dehra Dun	N,E N	eP	13	31	13	670 Slight.
			PP		31	20	
			PPP		31	26	
			Lq		32	08	
			iS		32	23	
			Lr		32	30	
			SS		32	34	
			S*		32	43	
			SSS		32	50	
			Sg		32	59	
				New Delhi	N,E	eP	
P*		31				52	
Pg		32				06	
eS		32				49	
E		33				08	
N,E		33				23	
	Shillong	Z	iP	13	33	30	Slight.
27	Poona	Z Z,E E	eP	13	33	58	1680 Slight.
			eS		36	47	
			SS		37	08	
			SSS		37	15	
			Lr		37	27	
			PcP		38	33	
			M		38	48	
27	Bombay	E	e	13	36	19	Feeble.
			e		37	33	
			e		38	00	
27	Bokaro	N,E	e	13	36	22	Feeble.
			e		37	26	
			e		38	29	

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS	
				h.	m.	s.			km.
<u>Apr.</u>									
1955									
27 Contd.	Madras	E	iP	13	38	55	1460	Slight.	
			Lq			41			17
			iS			41			23
			SS			41			35
			SSS/Lr			41			48
		M				43	52		
	Hyderabad	E	iP	13	39	18			
			M			41	17	Per. = 8 Secs./u = 2.	
27	Shillong	Z	iP	15	50	56		Rarefaction. Slight.	
27	Shillong	Z	e	21	43	53		Feeble. Tremor.	
27	Epc: 44°N, 83½°E. In the Sinkiang Province, China. - H = 22h 42m 00s (U.S.C.G.S).								
	Dehra Dun	N,E	e	22	45	30		Slight. Phases not clear.	
			e			45	39		
			i			48	10		
			i			48	34		
	New Delhi	N,E	eP	22	45	58	1900	Slight.	
			eS			49			08
			M			51			35
	Shillong	Z	iP	22	46	33		Compression. Slight.	
	Poona	Z	eP	22	47	47		Compression. Slight.	
	Hyderabad	E	M	22	57	30		Per. = 10 Secs./u = 2.	
28	Shillong	Z	iP	00	55	50		Feeble.	
28	Shillong	Z	e	05	59	21		Tremor.	
28	Shillong	Z	i	10	21	42		Tremor.	
28	Epc: 50°N, 178°W. In Andreanov Island Region in Alentians. - H = 19h 05m 03s G.M.T. (Shillong). 51°N, 178½°W. - H = 19h 04m 59s (U.S.C.G.S). 52°N, 178½°W. - H = 19h 05m 03s (B.C.I.S).								
	Shillong	Z	iP	19	16	16	7780	Slight. Compression. First movement west.	
			PcP			16			36
			eS			25			24
			PS			25			40
			SKS			25			47
			PPS			25			54
	Dehra Dun	N,E	eP	19	16	46	8250	Moderate.	
			PP			19			42
			PPP			21			26
			iS			26			20
			PS			27			06
			PPS			27			27

DATE	STATION	COMPT.	PHASE	G. M. T.			△	REMARKS
				h.	m.	s.		
<u>Apr.</u>								
1955								
28 Contd.	Dehra Dun Contd.	N	SS	19	31	16		
			SSS		34	07		
			Lq		36	32		
			M		47	25		
	Bokaro	N,E	iP	19	16	49	8310	Moderate.
			PcP		16	56		
			PP		19	47		
			PPP		21	32		
			iS		26	26		
			SKS ₁		26	37		
			ScS ₁		26	54		
			PS		27	13		
			PPS		27	47		
			SS		31	09		
			SSS		34	28		
			Lq		36	58		
			Lr		40	56		
			M		47	25		
	New Delhi	N,E N	eP	19	16	53	8490	Moderate.
			PF		19	58		
			iS		26	38		
			PS		27	13		
			SS		31	57		
	Hyderabad	E	iP	19	17	35	9460	
			PP		20	48		
			SKS		27	58		
			iS		28	05		
			PS		28	56		
			SS		33	51		
			Lq		41	03		
			Lr		45	54		
			M		52	54		
			M		53	03		
	Bombay	E N E N	eP	19	17	45	9550	Slight.
			eP		17	48		
			eS		28	19		
			eS		28	21		
	Poona	Z E N,E E	iP	19	17	47	9450	Moderate.
			PP		21	14		
			SKS ₁		27	53		
			eS		28	16		
			PS		29	28		
			PPS		30	03		
			SS		33	46		
			SSS		37	11		
			M		51	50		

Per. = 18 Secs./u = 12.
Per. = 19 Secs./u = 13.

DATE	STATION	COMPT.	PHASE	G. M. T.	△	REMARKS
				h. m. s.	km.	
<u>Apr.</u>						
1955						
28	Madras	E	iP	19 17 49	9750	Moderate.
Contd.			PP	21 30		
			SKKS	28 16		
			iS	28 31		
			ScS	28 55		
			PS	29 49		
			PPS	30 20		
			SS	34 59		
			SSS	38 42		
			Lq	41 59		
			M	51 38		
	Colombo	E	eP	19 18 05	9820	
			S	28 50		
			L	51 00		
			M	20 00 38		Amp. = 0.6mm.
28	Shillong	Z	e	20 51 24		Tremor.
28	Shillong	Z	iP	21 59 23		Slight. Rarefaction.
29	Shillong	Z	e	01 14 32		Slight. Near.
			i	14 55		
29	Dehra Dun	N,E	e	07 37 05		Tremor.
29	Epc: In Pamir Region. - H = 11h 53m 01s (B.C.I.S). - H = 11h 53m 09s (Quetta).					
	Dehra Dun	N,E	eP	11 55 32	990	Slight.
		N	PP	55 37		
			eS	57 14		
			SS	57 25		
			SSS	57 38		
			S*	57 46		
			Sg/M	58 09		
	New Delhi	N,E	eP	11 55 48	1090	Slight.
		E	eS	57 40		
		N,E	SS	57 54		
			Lr	57 58		
		E	SSS	58 06		
		N,E	Sg	58 52		
	Poona	Z	eP	11 57 41		Feeble shock. Phases
		Z,E	i	12 03 25		not developed.
	Shillong	Z	iP	11 57 55	2460	Slight. Compression.
		E	iP	57 57		
			PP	58 22		
			iS	12 01 55		
			SSS	02 51		
			Lr	03 13		
			M	05 02		
	Madras	E	eP	12 04 43		Slight.
			e	07 06		

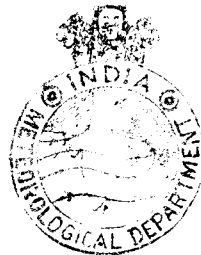
Earthquake Reports
(Non Instrumental Reports)

The following table contains list of earthquakes that were reported by Voluntary Observers from various stations during the month of April 1955.

Place	Date in Time in			Duration of shocks in Secs.	Number of shocks	Intensi- ty in R.F scale	Remarks
	G. M. T.	G.M.T.	h. m.				
Gauhati	05	07	12	8	1	IV	-
Simla	14	30	04	4	1	IV	-
Lower Mant (Kangra)	14	06	27	4	3	VI	-
Srinagar	14	06	25	2	1	III	
Srinagar	15	09	08	4	2	III	
Srinagar	15	09	41	6	3	IV	
Shillong	17	09	21	3	1	V	
Gauhati	17	09	20	5	1	V	Directi- on NE.
Tangla (Durrang)	17	09	22	10	1	V	
Tura	21	14	00	2	1	III	
Gauhati	21	09	49	3	1	III	
Gauhati	21	14	04	10	1	V	Directi- on NE.
Leh	27	18	55	2	3	IV	

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



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

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min
Calcutta	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismograph	E-W	$T_0 = T_g$ $= 7.0$	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Dhara	Benioff	Z	$T_0=0.72$ $T_g=0.45$	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dhara Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	$T_0 = T_g$ $= 7.2$	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	$T_0=1.5$ $T_g=1.5$	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	$T_0=1.0$ $T_g=0.18$	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s	Δ km.	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s	Δ km.	REMARKS
May 1955							May 1955						
01	SHILLONG	Z	i	05 37 57 38 11		Slight, near.	01	BOKARO	N, E	iS?	10 11 38		Other phases not identifiable
01	SHILLONG	Z	e	05 42 04		Tremor	01	Epc:	39 $^{\circ}$ N, 143 $^{\circ}$ E;	- H \approx 13h 58m 44s (U.S.C.G.S)			
01	Epc: 37 $^{\circ}$ N, 144.7 $^{\circ}$ E; - H \approx 09h 55m 17s (Shillong) Off coast of Northern Island, Honshu, 39 $^{\circ}$ N, 143 $^{\circ}$ E; - H \approx 09h 55m 16s (U.S.C.G.S) 39 $^{\circ}$ N, 143 $^{\circ}$ E; - h \approx 60 km Ca, - H \approx 09h 55m 19s (CMO Japan) Magnitudes: 6.9 (Roma), 6% (Pasadena, DeBait, Kiruna, Praha, Hurbanovo) 6% (Pasadena) (Uppsala)						Honshu After shock, 39 $^{\circ}$ N, 143 $^{\circ}$ E; - h \approx 40 km Ca - H \approx 13h 58m 46s (CMO Japan) 37 $^{\circ}$ N, 144.7 $^{\circ}$ E; - H \approx 13h 58m 44s (Shillong) Magnitudes: 6.7 (Roma), 6% (Praha), 6 (Pasadena)						
SHILLONG	Z, N, E	iP	10 03 36	4920	Moderate.	SHILLONG	Z, E	eP	14 07 03	4750	Compression		
	E	PcP	05 06		Compression		E	PcP	08 32				
		ScP	08 41		First movement			PPP	09 30				
		iS	10 11		"wewt"			eS	13 33				
		PS	10 15					PS	13 41				
		PPS	10 23					SS	16 51				
		SS	13 13					Lq	17 30				
		SSS	14 24					SSS	18 00				
		Lr	16 29					Lr	19 57				
		M	20 15					M	23 57				
DEHRA DUN	N, E	eP	10 04 41	5950	Moderate	BOKARO	N, E	iP	14 07 43	5700	Moderate,		
	N	PP	06 44				E	PP	09 43	distant			
		PPP	07 44					PPP	10 46				
		iS	12 13					iS	15 02				
		PS	12 24					SS	18 26				
		PPS	12 38					Lr/SSS	20 04				
		SS	15 43					Lr	22 20				
		SSS	17 41					M	26 35				
		Lr	20 07				DEHRA DUN	N, E	eP	14 08 07	5950	Moderate	
		M	24 43				N	PP	10 09				
NEW DELHI	N, E	eP	10 04 51	6050	Moderate			iS	15 39				
	N	PP	06 54					PS	15 49				
		PPP	08 10					PPS	16 55				
		eS	12 29					SS	19 14				
		SS	16 02					SSS	21 07				
		SSS	18 06					Lr	23 27				
		Lr	20 50					M	27 34				
		M	24 38				NEW DELHI	N, E	eP	14 08 17	6080	Moderate	
HYDERABAD	E	iP	10 05 24	6680			N	PP	10 24				
	N	P	05 27					PPP	11 38				
	E	PP	07 36					iS	15 56				
	N, E	iS	13 37					i	17 34				
	E	ScS	15 12					i	19 26				
		SS	17 48					M	28 08				
	N	SS	17 56				HYDERABAD	N, E	iP	14 08 52	6690		
		L	26 18				E	PP	11 04				
		M	28 51				N, E	iS	17 06				
	E	M	29 30				E	SS	21 12				
							N	L	29 18				
							E	M	32 19				
								M	33 04				Per. \approx 15 sec /u \approx 6
MADRAS	E	iP	10 05 25	6950	Moderate	MADRAS	E	iP	14 09 01	6920	Moderate		
		PcP	05 57					PcP	09 35				
		PP	07 50					PP	11 16				
		eS	13 52					PPP	12 46				
		PS	14 09					PcS	13 33				
		PPS	14 18					eS	17 27				
		ScS	15 00					PS	17 45				
		SS	18 02					PPS	17 53				
		SSS	20 37					SS	21 41				
		M	32 26					SSS	24 29				
								Lq	24 59				
								Lr	27 52				
COLOMBO	E	P	10 05 34	7880				M	34 47				
		S	14 49				POONA	Z	iP	14 09 13	7000	Moderate	
		L	28 34				E	PcP	09 43				
		M	35 14			Amp. \approx 0.5 mm		PP	11 35				
POONA	Z	iP	10 05 48	7000	Moderate			iS	17 43				
	E	PcP	06 14					PS	18 06				
	N, E	iS	14 18					PPS	18 13				
	E	PS	14 29					ScS	18 54				
		PPS	14 50					SS	21 51				
		SS	18 14					Lr	28 26				
	N	SSS	21 38					M	33 51				
		Lq	22 29				BOMBAY	N, E	eP	14 09 18	7110	Slight	
		M	30 33				N	PP	11 41				
BOMBAY	N, E	eP	10 05 52	7130	Slight		N, E	eS	17 54				
	N	PcP	06 29				E	PS	18 12				
		PP	08 39				N	PPS	18 19				
	N, E	eS	14 23				COLOMBO	E	P	14 09 29			
		PS	14 54					S	18 39				
	N	PPS	15 00					L	33 00				
		M	38 29					M	40 04				Amp. \approx 0.5 mm.

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	
				h. m. s.	km.						h. m. s.	km.		
May 1955							May 1955							
14	BOKARO Contd.	N,E	iP e e e e M	06 12 17 12 49 16 33 17 02 17 28 18 06 20 10		Moderate shock	14	HYDERABAD Contd.	N E N,E E	P iS S SS M	13 40 00 43 29 43 32 44 34 48 44	2110		
	DEHRA DUN	N,E N	eP PPP eS PPS SS Lq Lr M	06 12 51 15 41 19 47 20 07 22 50 24 10 26 11 30 05	5290	Moderate		SHILLONG	Z,E N E N,E	iP eP PP pP LP iS i SS PcP Lr ScP	13 40 06 40 28 40 47 41 13 43 46 44 00 44 14 44 41 44 57 47 35	2440	Slight	
	HYDERABAD	N,E E N	iP iS SS	06 13 14 20 32 23 19	5680			MADRAS	Z	eP PP PPP PcP iS SS SSS Lr ScP M	13 40 46 41 18 41 28 44 20 44 54 45 40 46 00 46 27 47 53 48 19	2570	Slight	
	MADRAS	E	eP i i i M	06 13 17 13 33 15 20 15 34 20 39		Slight		POONA	Z E	iP i	06 13 43 21 22		Very distant. Feeble shock. Phases not clear.	
	POONA	Z	iP	06 13 43			14	SHILLONG	Z,N,E N N,E	iP iP Pg iSg	19 07 34 07 35 07 39 08 03	210	Slight	
	BOMBAY	N,E E N,E	iP e iS	06 13 48 14 16 21 33	6930	Slight. No surface waves. Deep focus.		CHATRA	Z	eP iS	19 08 35 34 31	740	Feeble	
14	Epc: 37°N, 72.5°E; Hindukush - H = 13h 35m 29s (Shillong) - H = 13h 35m 42s (Quatra) 37°N, 71°E; - h = 200 km Ca; - H = 13h 35m 38s (U.S.C.G.S) Felt at Kawalpindi and Peshawar.							14	SHILLONG	Z N N,E	e e i	22 54 57 55 31 55 33		Slight, local
	DEHRA DUN	N,E N	eP PP PPP Lq iS SS/Lr SSS Sg/M	13 37 41 37 48 37 55 39 00 39 12 39 24 39 36 40 03	880	Moderate	15	SHILLONG	Z	i e e	00 20 26 20 36 20 42		Slight, local	
	NEW DELHI	N,E E N,E	iP PP PPP i i i iS SS SSS S Sg	13 37 55 38 03 38 10 38 28 38 31 38 56 39 34 39 46 39 58 40 08 40 33	960	Slight. Direction of first motion south and east.	15	SHILLONG	Z Z,N,E	iP eSg	07 52 12 52 44	230	Slight	
	BOMBAY	N,E E N E	eP e eSg iSg	13 39 37 40 30 42 51	2070	Slight		DEHRA DUN	N,E	e e	07 54 05 55 04		Feeble. Phases not clear.	
	BOKARO	N,E	eP PP PPP iS/Lq SS SSS Lr M	13 39 39 39 50 41 05 42 54 43 01 43 18 43 29 44 50	1960	Moderate	15	DEHRA DUN	N,E	e	08 06 08		Tremor	
	POONA	Z E	iP PP PPP Lq eS SS SSS Lr PcP M	13 39 42 39 54 40 01 42 42 56 43 01 43 16 43 35 43 49 43 58 45 19	2000	Slight	15	DEHRA DUN	N,E	e	08 19 09 20 25		Tremor. Phases not clear	
							15	SHILLONG	Z	e	11 16 19		Slight	
							15	SHILLONG	Z	e	18 17 14		Slight	
							15	SHILLONG	Z	e	21 00 00		Slight. Near.	
							15	SHILLONG	Z	i	21 41 56		Slight, local.	
							16	SHILLONG	Z	e	00 44 16		Slight	
							16	SHILLONG	Z E	eP Lq eS SS SSS M	01 56 50 58 14 58 21 58 35 58 47 59 08	880	Slight	
							16	SHILLONG	Z	eP eSg	02 47 13 47 44	220	Slight	
							16	SHILLONG	Z	e	03 42 46		Slight, distant.	
							16	SHILLONG	Z	e	06 12 05		Slight	
							16	SHILLONG	Z	e	09 48 11		Slight.	
							16	SHILLONG	Z	i	21 08 10		Slight	

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS
May 1955							May 1955						
26	SHILLONG	Z	eP	16 34 59	8330	Slight	28	DEHRA DUN	N.E	e	09 57 23		Feeble. Phases not clear.
	Contd.	E	PP	37 40						i	58 27		
			PPP	39 23			28	SHILLONG	Z	e	15 17 09		Slight
			iS	44 37			28	DEHRA DUN	N.E	e	17 04 50		Tremor
			PS	45 13			28	DEHRA DUN	N.E	e	18 20 43		Tremor
	MADRAS	E	i	16 35 00			28	DEHRA DUN	N.E	e	19 32 20		Feeble. Phases not clear
	COLOMBO	E	i	16 35 29			29	SHILLONG	Z	i	02 40 02		Slight
			i	45 51			29	SHILLONG	Z	e	11 15 28		Slight
			L	17 02 24		Amp. \approx 0.6 mm	29	SHILLONG	Z	i	12 38 59		Slight
			M	09 34			29	SHILLONG	Z	i	13 43 46		Slight
	BOKARO	E	e	16 35 32		Distant Phases not identifiable.	29	Epc: 10.4°S, 112.8°E; - H \approx 15h 33m 58s (Shillong) 10.1°S, 110.6°E; - H \approx 15h 34m 04s (M.C.I.S) 10.4°S, 110.6°E; - H \approx 15h 34m 00s (U.S.C.G.S) Magnitude \approx 6% (Pasadena), 6% (Lwiro), 6% (Praha)					
	POONA	Z	eP	16 36 12		Feeble. Phases not clear		COLOMBO	E	P	15 41 02		
	DEHRA DUN	N.E	eP	16 36 27	9360	Moderate				S	46 50		Amp. \approx 3.5. Several maxima follow.
			PP	39 44						M	57 22		
			PPP	41 32				MADRAS	E	eP	15 41 27	4320	Moderate
			iS	46 52						PP	43 02		
			PS	47 43						PcP	43 17		
			SS	52 34						PPP	43 32		
			SSS	55 32						ScP	46 53		
			Lq	59 48						iS	47 26		
			Lr	17 03 41						SS	50 12		
			M	11 00						Lq	50 30		
	HYDERABAD	N	S(?)	16 46 21						SSS	50 48		
			M	17 19 58		Per. \approx 18 secs γ_{us} 5				ScS	51 03		
26	SHILLONG	Z	e	20 20 14		Slight				Lr	52 12		
26	SHILLONG	Z	eP	21 20 47		Slight				M	54 38		
		E	i	23 33				SHILLONG	Z	iP	15 41 39	4470	Slight.
			i	25 15						PP	42 13		
			e	26 37						iS	47 47		
26	DEHRA DUN	N.E	e	21 23 21		Slight. Phases not clear				SS	50 33		
			i	27 27						SSS	51 09		
26	SHILLONG	Z	e	21 32 44		Slight		BOKARO	N.E	iP	15 41 55	4690	Moderate
27	DEHRA DUN	N.E	eP	05 34 44	970	Slight. Other phases not clear.				PP	43 32		
		N	iS	36 23						PPP	44 08		
			SS	36 33						iS	48 16		
			SSS	36 43						SS	51 14		
			Sg/M	37 16						Lq	51 28		
	NEW DELHI	E	eP	05 35 02	930	Slight				SSS	51 47		
		N.E	iS	36 38						Lr	53 46		
			SS	36 50						M	57 10		
		E	S*	37 05									
		N.E	i	37 17									
			Sg	37 32									
	SHILLONG	Z	e	05 37 13		Slight		KODAIKANAL	E	P	15 42 00	4390	Slight
27	SHILLONG	Z	e	12 38 27		Slight				PF	43 36		
27	SHILLONG	Z	ePg	14 06 09		50 Slight, local.				PPP	44 09		
			eSg	06 15						eS	48 12		
27	CHATRA	Z	iP	17 06 25	170	Feeble				SS	51 00		
			iS	06 46						SSS	51 45		
27	SHILLONG	Z	i	19 14 11		Slight				Lq	51 24		
28	SHILLONG	Z	e	06 23 19		Slight				Lr	53 21		
28	POONA	Z	iP	06 39 47		Very feeble Phases not clear				M	56 39		
			i	40 40									
		E	i	43 30				POONA	Z	eP	15 42 32	5210	Moderate
	NEW DELHI	N.E	iP	06 40 05	90	Slight				N	PcP	43 57	
			iS	40 16						E	PP	44 25	
		N	i	40 29							PPP	45 18	
	DEHRA DUN	N.E	i	08 49 07		Slight. Phases not clear					PcS	47 24	
			i	49 12							eS	49 23	
	BOKARO	Z	e	06 40 14		Tremor					ScS	51 39	
	SHILLONG	E	i	06 40 19		Slight					SS	52 41	
											Lq	54 02	
											SSS	54 12	
											Lr	56 21	
											M	16 00 57	
								BOMBAY	N.E	eP	15 42 43	5240	Slight
										eS	49 36		

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s	Δ km	REMARKS
May 1955	30 POONA Contd.	N, E N	eP PP PPP iS PS PPS SS SSS Lq Li M	23 37 38 40 14 41 32 46 18 46 38 46 56 50 35 52 54 54 43 57 50 00 03 12	7200	Moderate	31 SHILLONG	Z	e		10 26 14		Slight, near.
							31 SHILLONG	Z	i		11 48 52		Slight, local.
							31 SHILLONG	Z, E N Z N, E	iPq ePq e eS		14 52 10 57 38 59 16	3400	Slight
	30 POONA	Z E	iP PeP PP PPP PeS eS PS ScS SS SSS M	23 37 39 38 04 40 03 41 41 42 14 46 21 46 41 47 31 50 33 53 23 00 02 58	7220	Slight	DEHRA DUN	N, E	e		14 53 08		Feeble. Phases not clear.
							POONA	Z	iP		14 54 19		Tremor
	31 DEHRA DUN	N, E	e	01 13 57		Tremor	31 SHILLONG	Z	e		16 40 00		Slight
	31 SHILLONG	Z	e	07 30 26		Slight	31 DEHRA DUN	N, E	e		18 16 59		Tremor
	31 SHILLONG	Z	i	07 33 55		Slight, local	31 SHILLONG	Z, N, E	e		18 17 07		Slight
	31 SHILLONG	Z	e	09 44 30		Slight, distant	31 SHILLONG	Z	iPq iSg		18 48 30 48 42	100	
		Z, E N, E	e e	47 35 54 56									
	31 COLOMBO	E	i i L M	09 55 18 10 03 50 20 00 26 48		Amp. \approx 0.1							

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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 month of May 1955

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
SHILLONG	05	15 45	4	III	1	
SHILLONG	05	15 45	30	IV	1	
SHILLONG	05	15 45	5	IV	1	
GAUHATI	05	15 50	10	V	2	Direction NE
SRINAGAR	14	19 07	20	V	2	
TANGLA (Durang)	23	09 10	40	V	1	
TEZPUR	23	09 11	10	V	1	

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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

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min
Bombay	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	To = Tg = 7.0	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omeri-Ewing	N-S	18.0	32	-	25
	Omeri-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	To=0.72 Tg=0.45	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	To = Tg = 7.2	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omeri-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	To=1.5 Tg=1.5	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	To=1.0 Tg=0.18	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
June 1955							June 1955						
01	SHILLONG	Z	e	01 01 01		Slight	02 NEW DELHI	N ₀ E	PcP	00 31 14	7780	Moderate. Beginning lost in hour mark.	
01	KODAIKANAL	E	e	01 06 10		Tremor	Contd.	N	PP	33 33			
01	SHILLONG	Z	e	01 37 53		Slight			PP	35 29			
01	SHILLONG	Z	e	03 09 47		Slight			iS	40 07			
01	SHILLONG	Z	e	07 23 23		Slight, local	BOMBAY	N ₀ E	eP	00 31 38		Slight	
01	SHILLONG	Z	e	07 24 00		Slight		E	e	42 14			
01	SHILLONG	Z	e	07 30 23		Slight		N ₀ E	i	42 28			
01	SHILLONG	Z	e	07 58 19		Slight, local	POONA	Z	iP	00 31 39	9420	Moderate. First movement south and west.	
01	SHILLONG	Z	i	07 58 33		Slight, local		N ₀ E	PP	34 57			
01	SHILLONG	Z	e	09 25 18		Slight, local			PPP	36 56			
01	SHILLONG	Z	i	09 25 19		Slight, local			eS	42 07			
01	SHILLONG	Z	e	09 25 46		Slight, local			ScS	42 23			
01	SHILLONG	Z	e	11 14 40		Slight			PS	42 58			
01	SHILLONG	Z	e	11 14 54		Slight			PPS	43 22			
01	SHILLONG	Z	e	15 31 21		Slight			PKKP1	49 05			
01	SHILLONG	Z	e	15 31 21		Slight			Lq	54 39			
01	SHILLONG	Z	e	15 31 21		Slight			M	01 05 37			
01	SHILLONG	Z	e	15 31 21		Slight			Mn	11 --			
01	Epc: 14°N, 128°E. Haimshera; h = 100 km; H = 16h 10m 32s (U.S.C.G.S) Magnitude = 5% (Kiruna).						HYDERABAD	N	P	00 31 56	9450	Time marks absent. Clock Stopped.	
SHILLONG	Z, E	iP	16 18 25	4510	Slight				PP	35 11			
	N	eP	18 49		Slight				S	42 25			
	E	PP	18 49		Slight				PS	43 03			
		PcS	24 04		Slight								
	N, E	iS	24 35		Slight		COLOMBO	E	P	00 32 05	10130	L trace partially lost.	
	E	eS	25 17		Slight				S	43 02			
		Lq	27 52		Slight				L	01 08 --			
	N, E	ScS	28 13		Slight				M	15 00		Amp. = 1.1 mm	
		Lr	30 02		Slight								
BOKARO	E	eP	16 19 04	4920	Slight. Probably distant.		02 SHILLONG	Z	i	00 34 04		Slight	
		e	20 47		Slight		02 SHILLONG	Z	e	00 58 10		Slight	
		i(S)	25 40		Slight		02 SHILLONG	Z	i	02 13 22		Slight	
		i	29 21		Slight		POONA	Z	eP	02 14 52		Feeble. Phases not clear	
MADRAS	E	iP	15 19 15	5310	Probably distant. First movement west.		HYDERABAD	N	M	02 48 45		Per. = 17 secs μ = 10	
		e(S)	26 11		Slight		02 SHILLONG	Z	e	07 45 14		Slight, distant.	
DEHRA DUN	N, E	e	16 20 06		Feeble. Phases not clear.		02 SHILLONG	Z	e	11 35 40		Slight	
HYDERABAD	N	e	16 27 06		Slight		02 SHILLONG	Z	e	13 52 02		Slight	
01 SHILLONG	Z	iP	16 23 57		Slight		02 SHILLONG	Z	i	16 06 19		Slight	
02 Epc: 51°N, 177°W. In Andreanov Island Region in the Aleutians. 51°N, 180°W. H = 00h 18m 56s (U.S.C.G.S) 51°N, 179°W. H = 00h 18m 54s (E.C.I.S) Magnitude = 7 (Lwiro), 6% (Pasadena, Roma, Skalnate Pleso), 6% (Hurbanovo), 6% (Uppsala, Kiruna, Praha).							02 SHILLONG	Z	e	20 33 26		Slight	
SHILLONG	Z, N, E	iP	00 30 08	7690	Moderate.		02 SHILLONG	Z	e	23 44 08		Slight, distant	
		PcP	30 22		Moderate		03 SHILLONG	Z	e	01 43 08		Slight	
	N, E	PP	32 46		Moderate		03 SHILLONG	Z	i	03 12 42		Slight, local	
	E	PPP	34 25		Moderate				e	13 06			
	N, E	iS	39 14		Moderate		03 SHILLONG	Z	i	05 27 58		Slight	
		PS	39 32		Moderate		03 DEHRA DUN	N, E	e	10 23 47		Tremor	
	E	PPS/ScS	39 54		Moderate		03 SHILLONG	Z	e	17 37 26		Slight	
	N	e	43 00		Moderate		04 SHILLONG	Z	e	03 34 37		Slight	
	E	SS	43 42		Moderate		04 SHILLONG	Z	e	05 26 21		Slight, near.	
	N	SSS	47 05		Moderate				i	27 01			
	N, E	Lq	48 02		Moderate		04 SHILLONG	Z	e	12 55 10		Slight	
		Lr	52 10		Moderate		04 DEHRA DUN	N, E	e	16 45 40		Tremor	
		M	56 20		Moderate		04 Epc: 40°N, 142°E; h = 60 km; 40.2°N, 143°E; h = 40 km H = 16h 51m 22s (U.S.C.G.S) H = 16h 51m 21s (CMO Japan) Magnitude = 6% (Roma), 6-6% (Prasha) 5% (Uppsala).						
DEHRA DUN	N, E	eP	00 30 33	8150	Moderate		SHILLONG	Z, E	iP	16 59 32	4840	Slight	
	N	PP	33 28		Moderate			N	eP				
		PPP	35 08		Moderate			E	PcP	17 01 04			
		iS	40 02		Moderate				PP	01 14			
		PS	40 53		Moderate				PPP	01 38			
		SS	44 56		Moderate								
		SSS	48 15		Moderate								
		Lq	50 19		Moderate								
		Lr	53 23		Moderate								
		M	01 00 24		Moderate								
BOKARO	E	iP	00 30 39		Moderate								
		i	31 09		Moderate								
		i	33 24		Moderate								

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS	
June 1955							June 1955							
07	Epc: 37°N, 100°E. Sinkiang Province in China; H = 15h 30m 15s (U.S.C.G.S.)						09	CHATRA	Z	iP iS	20 34 08 34 33	250	Feeble	
	SHILLONG	Z, E E	iP PP Pg Lq iS SS/Lr SSS M	15 32 17 32 35 32 55 33 33 33 45 33 52 34 07 34 32	860	Slight Compression. First movement east.	09	SHILLONG	Z	iP	23 17 00		Slight	
	BOKARO	E	eP	15 33 22		Slight	10	SHILLONG	Z	i i	12 12 58 13 22		Slight, near	
	HYDERABAD	N	e	15 33 35			11	SHILLONG	Z	i	11 03 07		Slight	
	DEHRA DUN	N, E N	eP PP PPP iS Lq SS SSS Lr M	15 34 54 35 16 35 27 38 38 38 55 39 13 39 33 39 45 41 38	2350	Slight	11	SHILLONG	Z	iP	13 52 26		Slight	
	NEW DELHI	N, E N	eP PP PPP iS SS M	15 35 02 35 24 35 36 38 52 39 24 41 54	2330	Slight	11	Epc: 27°S, 63°W. Santiago del Estero Province, Argentina; h = 600 km. H = 22h 19m 40s (U.S.C.G.S.) Magnitude = 6 (Takubaya).						
	POONA	Z E	eP i i	15 35 03 40 22 44 38		Very feeble shock. Phases not clear	POONA	Z	eP	22 37 59			Tremor	
07	SHILLONG	Z	iP	18 27 01		Slight. Rarefaction.	NEW DELHI	N, E	iP i i	22 38 15 38 38 38 40			Slight	
07	SHILLONG	Z	iP	19 04 17		Slight. Rarefaction.	DEHRA DUN	N, E	e i	22 38 15 38 30			Feeble. Phases not clear	
07	SHILLONG	Z	iP	22 17 59		Slight. Compression.	SHILLONG	Z	iP	22 38 32			Slight. Rarefaction.	
08	SHILLONG	Z	iP	02 49 02		Slight. Compression.	11	SHILLONG	Z	iP	23 12 58			Slight. Rarefaction.
08	SHILLONG	Z	iP	04 33 53		Slight. Compression	12	SHILLONG	Z	i i	15 31 13 31 21			Slight, near.
08	SHILLONG	Z	iP Pg S Sg	12 54 25 54 29 54 50 54 55		Slight, near.	12	Epc: 49°N, 155°E. (Xurite Islands) H = 20h 35m 45s (U.S.C.G.S. & B.C.I.S.) 50°N, 157°E. H = 20h 30m 18s (CNO Japan) Magnitude = 6% (Skalnate Pleso), 6% (Hurbanovo) 6% (Praha, Roms), 5% (Uppsala), 5% (Karuva).						
08	SHILLONG	Z	iP	13 58 15		Slight. Compression	SHILLONG	Z, E E	iP i PP eS PS PPS M	20 40 09 40 55 42 09 47 26 47 46 47 54 59 21	5670	Slight. Compression		
08	SHILLONG	Z	Pg Sg	19 18 15 18 16		Slight, local	DEHRA DUN	N, E	e	20 41 51			Tremor	
08	SHILLONG	Z	iP	22 28 10		Slight. Compression.	POONA	Z N	eP PcP eS PS PPS SKS SSS M	20 42 04 42 26 51 15 51 35 51 47 52 05 58 51 21 08 54	7800	Slight		
08	SHILLONG	Z	i i i	22 31 43 31 53 32 01		Slight, near.	BOMBAY	N	eP eS	20 42 06 51 24	7930	Slight		
09	SHILLONG	Z	i	03 15 06		Slight	COLOMBO	E	P L M	20 52 08 21 12 50 19 48			Amp. = 0.6 mm	
09	POONA	Z	eP	03 59 43		Tremor.	12	POONA	Z	e	22 36 42			Very feeble shock Phases not clear.
09	SHILLONG	Z	i i	09 16 16 17 10		Slight.	13	SHILLONG	Z	iP Sg	09 16 11 16 58	320	Slight. Rarefaction. First motion East.	
09	SHILLONG	Z	iP	10 15 54		Slight	DEHRA DUN	N, E	e	09 22 57			Feeble. Phases not clear	
09	SHILLONG	Z, N	iP Sg	12 17 27 17 59		Slight	13	SHILLONG	Z	iP	14 02 22			Slight. Rarefaction.
09	CHATRA	Z	iP iS	14 18 16 19 14	250	Slight	13	SHILLONG	Z	e	19 23 13			Tremor
09	DEHRA DUN	N, E	e	14 23 02		Tremor	13	SHILLONG	Z	eP iP	19 36 42 56 43			Compression. Slight.
09	CHATRA	Z	eP iS	16 59 07 59 35	240	Feeble	DEHRA DUN	N, E	e	19 39 51			Feeble. Phases not clear	
							13	SHILLONG	Z	iP	20 02 15			Rarefaction. Slight.

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km.	REMARKS
June 1955							June 1955						
13	POONA	Z	eP	20 42 05	7800	Slight	16	CHATRA	Z	iPg	22 34 40	50	Feeble.
		N	PcP	42 06						iSg	34 47		
			eS	51 16			17	Epc:	22°N, 122°E				Near East Coast of Formosa; - H \approx 08h 06m 31s (U.S.C.G.S) Magnitude \approx 6 (Uppsala), 5 $\frac{1}{2}$ -6 (Kiruna), 5.8 (Roma).
			PS	51 32				SHILLONG	Z	iP	08 12 19	3970	
			PPS	51 48					E	PPP	13 18		
			SKS ₁	52 06						S	17 56		
			SSS	59 45				DEHRA DUN	N, E	eR	08 14 14	4180	Slight
			M	21 08 58						PP	15 36		
14	SHILLONG	Z	e	03 10 20		Slight				iS	20 04		
14	SHILLONG	Z	e	06 30 38		Slight, Probably very distant.				SS	22 22		
	POONA	Z	e	06 30 58		Feeble, distant shock. Phases not clear				SSS	22 56		
	COLOMBO	E	P	06 33 --		P approximate. Trace over lapping.				Lr	24 22		
			L	07 20 49				POONA	Z	iP	08 14 53		Feeble shock, phases not clear.
			M ₁	32 06		Amp. \approx 1.0 mm				M	27 30		
			M ₂	43 29				HYDERABAD	N	eS	08 20 28		
14	CHATRA	Z	iPg	07 13 13	90	Feeble				M	30 53		Per. \approx 15 secs μ \approx 6
14	CHATRA	Z	iPg	12 57 08	90	Feeble	17	COLOMBO	E	L	08 20 --		Strong microseisms. Amp. \approx 0.6 mm
			iSg	57 20						M	31 20		
14	SHILLONG	Z	e	15 20 32		Slight.	17	SHILLONG	Z	e	08 57 44		Slight
14	SHILLONG	Z	e	15 48 30		Slight	17	SHILLONG	Z	e	11 15 03		Slight
14	SHILLONG	Z	e	16 05 52		Slight	17	SHILLONG	Z	e	13 29 28		Slight
14	SHILLONG	Z	e	16 43 02		Slight		CHATRA	Z	eP	13 29 49	330	Feeble
14	SHILLONG	Z	eP	17 30 03		Slight				iS	30 26		
		E	eS	36 38			17	SHILLONG	Z	e	16 26 33		Slight
	POONA	Z	eP	17 32 34		Feeble shock. Phases not clear.		CHATRA	Z	eP	16 27 17	770	Feeble
14	COLOMBO	E	P	17 41 05						iS	28 37		
			M	18 07 33		Amp. \approx 0.4 mm	18	SHILLONG	Z	e	00 41 04		Slight
15	SHILLONG	Z	e	00 09 08		Slight	18	SHILLONG	Z	e	00 46 30		Slight
15	DEHRA DUN	N, E	e	01 08 07		Slight. Phases not clear.	18	NEW DELHI	N, E	iP	12 19 14	8300	Moderate
			i	10 02						PcP	19 29		
	POONA	Z	eP	01 08 30		Slight shock. Phases not clear				PP	22 11		
		E	i	12 39						iS	28 50		
			i	13 30						PS	29 23		
			i	14 33						PPS	29 41		
15	SHILLONG	Z	i	03 14 02		Slight, distant				Lq	38 48		
15	SHILLONG	Z	i	03 38 20		Slight				M	48 48		
15	SHILLONG	Z	i	05 41 40		Slight	18	DEHRA DUN	N, E	e	13 34 56		Feeble, phases not clear
15	SHILLONG	Z(?)	i	12 39 39		Slight				i	36 09		
15	SHILLONG	Z	iP	15 31 37		Slight	18	DEHRA DUN	N	eP	15 21 03	6140	Slight
15	POONA	Z	eP	15 48 35		Tremor.				PP	23 07		
15	DEHRA DUN	N	e	15 48 43		Tremor				PPP	24 14		
15	DEHRA DUN	N	i	20 32 51		Tremor				iS	28 46		
16	CHATRA	Z	eP	01 01 16	140	Feeble.				PS	28 53		
			iS	01 34						PPS	29 07		
16	CHATRA	Z	iPg	02 14 16	70	Feeble				SS	32 31		
			iSg	14 26						M	41 13		
16	SHILLONG	Z	e	03 50 08		Slight	18	SHILLONG	Z	iP	16 13 08		Moderate.
16	SHILLONG	Z	e	05 02 25		Slight				E	PPF	14 15	
16	SHILLONG	Z	e	06 13 40		Slight				S	17 46		
16	SHILLONG	Z	e	08 23 31		Slight				Lr	20 09		
16	SHILLONG	Z	e	08 33 05		Slight				M	22 17		
16	SHILLONG	Z	e	16 44 44		Slight	18	DEHRA DUN	N	e	19 30 16		Slight, phases not clear.
										i	32 01		
							19	CHATRA	Z	eP	01 45 28	450	Feeble
										iS	46 16		
							19	DEHRA DUN	N	e	21 37 31		Tremor
							20	Epc:	50°N, 179.7°E				Andreev Islands in Aleutians. - H \approx 12h 07m 27s (Shillong) 5 $\frac{1}{2}$ °N, 180° - H \approx 12h 07m 25s (U.S.C.G.S) Magnitude \approx 7 $\frac{1}{2}$ (Berkeley), 6 $\frac{1}{2}$ (Uppsala), 6 $\frac{1}{2}$ -7 (Skalnate Pleso).

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km						h. m. s.	km	
June 1955							June 1955						
20	SHILLONG	Z	iP	12 18 36	7670	Moderate	22	SHILLONG	Z	e	07 48 53		Slight
Contd.			S	27 40			22	MADRAS	E	iPP	11 36 30		
	DEHRA DUN	N,E	eP	12 19 06	8130	Moderate		DEHRA DUN	N,E	e	15 52 49		Feeble. Phases not clear
		N	PP	21 47						i	54 37		
			PPP	23 57			22	SHILLONG	Z	e	15 54 56		Slight
			IS	28 34			22	SHILLONG	Z	e	17 57 16		Slight, local.
			PS	29 14			22	CHATRA	Z	iP	18 29 44	540	Feeble
			PPS	29 23						iS	30 41		
			SS	33 12			22	SHILLONG	Z	i	18 30 22		Slight
			SSS	36 09			22	DEHRA DUN	N,E	e	18 31 34		Tremor
			Lq	37 59			22	SHILLONG	Z	i	18 31 46		Slight
			Lr	42 08			22	SHILLONG	Z	e	21 32 08		Slight
			M	47 32			23	SHILLONG	Z	e	05 27 29		Slight
	BOKARO	N,E	iP	12 19 09	8060	Moderate, distant.	23	SHILLONG	Z,E	e	08 43 39		Slight, near.
			PcP	19 22					N	e	52 59		
			PP	22 09			23	SHILLONG	Z	e	08 47 43		Slight
			PPP	-- 56									
			IS	28 35			23 Epc: 42°N, 71°E. Kirghis U.S.S.R.						
			SKS ₁	28 54			- H = 11h 19m 18s (U.S.C.G.S)						
			PS	29 13			44°N, 70°E. - H = 11h 19m 26s (B.C.I.S)						
			SS	30 28			Magnitude = 5/4 (Kiruna).						
			SSS	34 09				DEHRA DUN	N,E	eP	11 22 24	1350	Moderate
			Lq	36 39					N	PP	22 34		
			Lr	40 24						Lq	24 33		
			M	47 09						IS	24 41		
	HYDERABAD	N	eP	12 19 55	9280					SS	24 54		
			IS	30 17						SSS/Lr	25 08		
			SS	36 17						Sg/M	26 04		
			M	51 45		Per. = 15 secs $\mu = 25$		NEW DELHI	N,E	eP	11 22 41	1660	Slight
									N	PP	22 52		
									N,E	PPP	23 04		
	POONA	Z	iP	12 20 08	9470	Moderate				Lq	25 07		
		E	PP	23 12						IS	25 16		
			PPP	25 33						SS	25 30		
			SKKS ₁	30 22						SSS	25 42		
			IS	30 38				SHILLONG	Z,E	i	11 24 32		Slight, near.
			PS	31 35					E	iP	28 50		
			PPS	32 20					N	eP			
			SS	36 22			23	SHILLONG	Z	e	14 03 37		Slight
			SSS	39 46			23	SHILLONG	Z	e	15 34 49		Slight, local
			Lq	44 06			23	SHILLONG	Z	i	16 36 01		Slight, near.
			M	54 51			23	SHILLONG	Z	e	21 02 17		Slight.
		N	Mn	13 09 24		Per. = 20.3 $\mu = 37.9$	23	SHILLONG	Z	e	21 49 04		Slight
	BOMBAY	N,E	iP	12 20 10	9490	Moderate		SHILLONG	Z,E	iP	22 22 17		Slight, distant
		N	PP	23 31					N	eP	29 28		
			PPP	25 28						e	32 59		
		N,E	iS	30 41						e	42 03		
			i	30 56									
		N	PS	31 27				DEHRA DUN	N,E	e	22 23 10		Feeble
			PPS	32 04				SHILLONG	Z	i	22 25 57		Slight
		E	M	13 00 12				SHILLONG	Z	e	22 36 38		Feeble
			M	00 25				SHILLONG	Z	i	23 08 59		Slight
	MADRAS	E	iP	12 20 11	9450	Moderate. Initial ground movement towards 'West'		SHILLONG	Z	e	03 17 16		Slight, local.
			SKS	30 31				SHILLONG	Z	i	03 41 54		Slight
			iS	30 40				SHILLONG	Z	e	03 55 20		Slight
			i	30 56				SHILLONG	Z	i	04 42 36		Slight
	COLOMBO	E	e	12 20 49		Strong microseisms		SHILLONG	Z	e	09 18 14		Feeble
			e	31 19				SHILLONG	Z	e	10 39 33		Feeble
			e	53 03									
			e	13 02 16									
	KODAIKANAL	E	iP	12 30 52		Earthquake of slight intensity, Phases not clear.							
			e	37 58									
			e	42 04									
			e	44 16									
			e	46 40									
			e	51 10									
21	CHATRA	Z	eP	09 23 11	190	Feeble.							
			iS	23 34									
21	SHILLONG	Z	iP	11 00 57	6450	Slight, distant							
			S	08 57									
	DEHRA DUN	N,E	e	11 01 36		Tremor							
21	SHILLONG	Z	e	12 47 55									
	CHATRA	Z	iP	12 48 26	830	Feeble							
			iS	49 57									
22	SHILLONG	Z	e	05 31 13		Slight							

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
				h. m. s.	km						h. m. s.	km	
June 1955							June 1955						
24	SHILLONG	Z	e	10 50 32		Feeble	27	Epc:					India Tibet Frontier.
24	SHILLONG	Z	e	10 58 58		Feeble							H = 10h 14m 33s (Shillong)
24	SHILLONG	Z	i	11 13 53		Slight, local							32°N, 78°E. - H = 10h 14m 06s (U.S.C.G.S)
24	SHILLONG	Z	e	11 14 48		Slight							32°N, 78°E. - H = 10h 14m 10s (B.C.I.S)
24	SHILLONG	Z	i	11 46 30		Slight							Magnitude = 6.3 (Roma), 6-6% (Kiruna), 6 (Uppsala), 5% (Lwiro), 5% (Shillong).
24	SHILLONG	Z	e	15 15 10		Slight, local.	DEHRA DUN	N, E	eP	10 14 49	110		Slight.
24	SHILLONG	Z	e	18 03 56		Slight		N	PP	14 56			
24	SHILLONG	Z	i	21 15 01		Slight, local.			S*	15 01			
24	SHILLONG	Z	i	21 15 39		Slight, local			Sg	15 02			
25	SHILLONG	Z	i	01 11 21		Slight, near.			iS	15 03			
		N, E	e	13 02					SS	15 13			
									SSS	15 25			
25	CHATRA	Z	ePg	04 52 59	100	Feeble	NEW DELHI	N, E	iP	10 15 13	480		Moderate
			iSg	53 12				N	Pg	15 31			
25	SHILLONG	Z	e	05 01 40		Slight			iS	16 04			
25	SHILLONG	Z	i	05 14 30		Slight			SS	16 14			
25	SHILLONG	Z	e	06 28 20		Slight, local	BOKARO	N, E	eP	10 16 44	1120		Moderate
			e	28 22					PP	16 51			
25	SHILLONG	Z	e	08 12 22		Slight, near.			PPP	17 03			
25	SHILLONG	Z	e	09 11 09		Slight, near.			Lq	18 32			
25	SHILLONG	Z	e	10 52 29		Slight, local			iS	18 39			
25	SHILLONG	Z	i	12 22 33		Slight			SS/Lr	18 58			
25	SHILLONG	Z	e	13 37 29		Slight.	SHILLONG	Z, E	iP	10 17 17	1390		Moderate
25	CHATRA	Z	iP	14 54 45	160	Feeble		N	eP	17 26			
			iS	55 05				Z, N	PP	17 33			
25	SHILLONG	Z	e	14 55 09		Slight, local		Z, N, E	PPP	17 33			
25	SHILLONG	Z	e	17 48 03		Slight		N, E	Lq	19 20			
25	DEHRA DUN	N, E	e	18 08 56		Slight. Phases not clear			eSg	19 38			
			i	10 25				E	iSg	20 02			
25	SHILLONG	Z	i	18 11 21		Slight	POONA	N, E	SSS/Lr	20 02			
25	SHILLONG	Z	iPg	18 32 00	100	Slight			M	21 12			
			eSg	32 12				Z	eP	10 17 34	1400		Slight. First ground movement towards 'South'
26	SHILLONG	Z	e	06 52 57		Slight, local.		E	PP	17 39			
			i	53 08					PPP	17 47			
			i	53 09					Lq	19 41			
26	SHILLONG	Z	i	10 42 21		Slight		N, E	eS	19 56			
26	SHILLONG	Z	i	14 05 40		Slight		E	SS	20 07			
			i	06 56					Lr	20 20			
26	SHILLONG	Z	i	15 15 21		Feeble		N	M	21 38			
26	SHILLONG	Z	i	15 39 23		Slight			Mn	22 55			Per. = 10.5 secs μ = 67.5
26	SHILLONG	Z	e	15 53 13		Slight	HYDERABAD	N	iP	10 17 37	1500		
			i	53 17				E	iS	20 09			Per. = 15 secs. μ = 104
			i	54 30					M	21 59			Per. = 15 secs. μ = 100
26	SHILLONG	Z	e	19 18 09		Feeble		N	M	22 49			
26	SHILLONG	Z	e	22 18 29		Slight, local	BOMBAY	N, E	eP	10 18 07	1810		Moderate
			i	18 31				N	PP	18 19			
			i	18 39					e	20 04			
26	SHILLONG	Z	i	22 49 18		Slight		E	i	20 15			
26	SHILLONG	Z	e	22 56 40		Slight, local.		N	i	21 08			
			i	56 53				N, E	iS	21 34			
			i	59 02					SS	21 46			
			i	59 12					SSS	21 59			
			i	59 22					Lr	21 59			
26	SHILLONG	Z	e	23 05 56		Slight.		E	M	22 00			Per. = 11 secs. μ = 60
									M	22 00			
							MADRAS	E	eP	10 18 43	1960		Slight, other phases not clear.
									iS	21 58			
							KODAIKANAL	E	iP	10 19 20	2330		Probably of slight intensity
									iS	23 10			
									Lr	24 10			
									M	25 46			Per. = 15 secs. μ = 93
							COLOMBO	E	P	10 19 41	2880		
									S	24 09			
									L	26 39			
									M	28 06			Amp. = 4.5 mm
							27 DEHRA DUN	N, E	eP	10 29 46	220		Slight
								N	PP	29 52			
									iS	30 12			
									S*	30 13			
									Sg	30 16			
									SS	30 22			
									SSS	31 32			

DATE	STATION	COMPT	PHASE	G. h.	M. m.	T. s.	Δ km	REMARKS
June 1955	27 DEHRA DUN	N,E N	eP PP PPP iS S* Sg SS SSS	10	31	33	260	Slight
27 DEHRA DUN	N,E N	eP P* Pg PP PPP iS S* Sg SS SSS	10	43	09	240	Slight	
NEW DELHI	N,E N N,E E N	eP PP PPP Pg Lq iS i SS Sg	10	43	33	520	Slight	
27 DEHRA DUN	N,E	e	11	31	11		Feeble, phases not clear.	
27 DEHRA DUN	N,E	eP Pg PP PPP iS S* Sg SS SSS	12	12	01	240	Slight	
NEW DELHI	N,E N N,E N N,E	P PP PPP eS i S* Sg	12	12	32	510	Slight	
27 CHATRA	Z	ePg iSg	12	47	13	90	Feeble	
27 DEHRA DUN	N,E	e	13	11	35		Tremor	
27 DEHRA DUN	N,E	e	13	25	22		Tremor	
27 DEHRA DUN	N,E	e	13	42	00		Tremor	
27 Epc: 31°N, 78°E.	- H = 13h 46m 10s (U.S.C.G.S)							
DEHRA DUN	N,E N	eP P* Pg PP PPP iS S* Sg SS SSS	13	46	52	230	Slight	
NEW DELHI	N N,E N N,E	eP P* PPP iS SS S* SSS Sg	13	47	22	510	Slight	
SHILLONG	Z	e	13	49	21		Slight, near	
27 DEHRA DUN	N,E	e	15	24	44		Tremor	
27 SHILLONG	Z	i	16	19	44		Slight, distant.	
June 1955	27 DEHRA DUN	N,E N	eP PP PPP iS Sg SS SSS	16	21	30	260	Slight
27 DEHRA DUN	N,E	e i	16	30	01		Feeble, phases not clear	
27 CHATRA	Z	iP iS	20	47	23	170	Feeble	
27 DEHRA DUN	N,E	e	22	45	44		Tremor	
27 SHILLONG	Z	e i i	23	42	57		Slight, local	
28 SHILLONG	Z	i	00	22	40		Slight	
28 CHATRA	Z	eP iS	00	23	27	590	Feeble	
28 DEHRA DUN	N,E	e	01	21	22		Tremor	
28 SHILLONG	Z N	iP eP PP PPP iS M	04	38	23	2910	Compression, slight.	
28 COLOMBO	E	e e	05	13	49			
28 SHILLONG	Z	iP	05	34	41		Slight, Rarefaction	
28 SHILLONG	Z	Sg?	06	24	00		Slight	
28 SHILLONG	Z,E	iP	22	03	48		Slight, near. Phases not clear	
28 CHATRA	Z	iP iS	22	04	39	940	Slight	
DEHRA DUN	N,E	e	22	09	07		Tremor	
SHILLONG	Z	iP Pg Sg	22	10	50		Slight, near.	
29 DEHRA DUN	E	e	00	16	51		Tremor	
29 SHILLONG	Z	iP	03	31	10		Slight, Rarefaction	
29 COLOMBO	E	P M	03	32	20		Amp. \approx 0.3 mm	
29 SHILLONG	Z	iP	03	41	28		Slight, rarefaction	
29 SHILLONG	Z	iP	04	56	28		Slight	
29 SHILLONG	Z	iP	05	01	43		Slight, rarefaction	
29 HYDERABAD	E	M	05	28	32		Per. \approx 15 secs μ \approx 4	
29 DEHRA DUN	N,E	e	06	10	17		Tremor	
29 DEHRA DUN	N,E	e	06	51	20			
29 SHILLONG	Z	iP	10	04	08		Slight, compression	
29 SHILLONG	Z	iP	15	47	22		Slight Rarefaction	
29 CHATRA	Z	eP iS	17	03	32	400	Feeble	
29 SHILLONG	Z	e	17	20	25		Slight.	
29 DEHRA DUN	N,E	e	17	25	53		Tremor	

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
June 1955				h. m. s.	km		June 1955				h. m. s.	km	
30	DEHRA DUN	N,E	eP	01 54 28	290	Slight	30	SHILLONG	Z	iP	02 42 51		Slight. Rarefaction
		N	P*	54 34									
			PP/Pg	54 38									
			Lq	54 50			30	SHILLONG	Z	iP	06 39 30		Slight. Compression
			iS	55 00									
			S*	55 05			30	CHATRA	Z	eP	10 07 14	670	Slight
			Sg	55 09									
			SS	55 12			30	DEHRA DUN	N,E	e	12 08 18		Tremor
			SSS	55 25									
	NEW DELHI	N,E	eP	01 54 47	600	Slight	30	DEHRA DUN	N,E	eP	13 28 21	230	Slight
			P*	54 58					N	PPP	27 34		
			PPP	55 03						iS	28 48		
			Lq	55 40						Lr	28 53		
			iS	55 51						S*	28 56		
		N	S*	56 02						SS	29 00		
		N,E	SSS	56 12						SSS	29 09		
30	CHATRA	Z	eP	01 56 22	1150	Slight	30	SHILLONG	Z	iP	19 28 11		Slight. compression
			iS	58 20									
							30	SHILLONG	Z	iP	22 09 02		Slight. 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 month of June 1955.

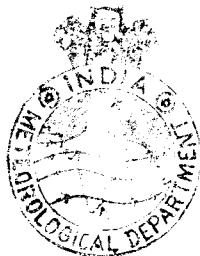
Place at which felt	Date in G.M.T.	Time in G.M.T. h. m.	Duration in secs.	Intensity in R.F. Scale	No. of Shocks	Remarks
SIMLA	27	10 15	3	V	3	
AMBALA	27	10 15	2	III	2	





GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



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

Instruments and their constants

Station	Instrument	Compt.	Period in secs	Static Magnifi- cation	Damping ratio	Paper Speed mm/min
Bombay	Milne-Shaw	N-S	12.0	350	18:1	16
	Milne-Shaw	E-W	12.0	350	9:1	8
	Sprengnether Microseismo- graph	E-W	$T_0 = T_g$ $= 7.0$	-	-	30
Calcutta	Milne-Shaw	E-W	10.0	150	20:1	8
	Wood-Anderson	N-S	2.0	870	Critical	30
	Omori-Ewing	N-S	18.0	32	-	25
	Omori-Ewing	E-W	19.0	30	-	25
Chatra	Benioff	Z	$T_0=0.72$ $T_g=0.45$	-	Critical	60
	Wood-Anderson	N	1.0	1000	30:1	60
	Wood-Anderson	E	1.0	1000	40:1	60
	Milne-Shaw	E	12.0	250	20:1	16
Colombo	Milne-Shaw	E-W	12.0	250	20:1	-
Dehra Dun	Milne-Shaw	N-S	12.0	250	20:1	16
	Milne-Shaw	E-W	12.0	250	20:1	16
	Wood-Anderson	N-S	0.8	800	60:1	60
	Wood-Anderson	E-W	0.8	950	60:1	60
Hyderabad	Milne-Shaw	N-S	12.0	252	20:1	8
	Milne-Shaw	E-W	12.0	253	20:1	8
Kodaikanal	Milne-Shaw	E-W	10.0	250	20:1	8
Madras	Sprengnether Microseismograph	E-W	$T_0 = T_g$ $= 7.2$	-	-	30
New Delhi	Milne-Shaw	N-S	12.0	288	20:1	8
	Wood-Anderson	N-S	4.0	1070	20:1	16
	Wood-Anderson	E-W	2.0	1841	30:1	60
	Omori-Ewing	E-W	28.0	30	1	12
Poona	Sprengnether Microseismograph	Z	$T_0=1.5$ $T_g=1.5$	-	-	30
	Wood-Anderson	E-W	4.0	1100	20:1	16
	Milne-Shaw	N-S	12.0	250	20:1	8
Shillong	Milne-Shaw	N-S	12.0	250	20:1	8
	Benioff Short Period	Z	$T_0=1.0$ $T_g=0.18$	-	-	60
	Wood-Anderson	E-W	0.8	1000	-	30
	Wood-Anderson	N-S	0.8	1000	-	30
	Wood-Anderson	N-S	4.0	1120	-	30

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	
				h. m. s.	km						h. m. s.	km		
July 1955							July 1955							
04	HYDERABAD	E	e	14 42 19			06	KODAIKANAL	E	e?	02 14 20		Tremor	
Contd.			M	15 03 16		Amp. = 15 sec L = 6	06	SHILLONG	Z	e	08 16 49		Very slight, local	
04	DEHRA DUN	N,E	e	17 00 10		Tremor	06	SHILLONG	Z	e	09 15 20		Very slight, local	
04	DEHRA DUN	N,E	e	22 36 50		Tremor	06	SHILLONG	Z	e	10 41 39		Slight	
04	COLOMBO	E	P	23 04 11	7610		06	CHATRA	Z	IP	15 06 39	70	Slight	
			S	13 13					E	IS	06 48			
			L	21 21		Amp. = 0.5 mm	06	DEHRA DUN	N,E	e	17 30 35		Tremor	
			M	25 41			06	DEHRA DUN	N,E	eP	18 35 58	230	Slight	
04	DEHRA DUN	N,E	e	23 25 17		Tremor			N	PP	36 04			
	SHILLONG	Z	e	23 35 28		Tremor				PPP	36 09			
03	SHILLONG	Z	e	04 13 23		Slight		DEHRA DUN	N	S°	18 36 26			
05	DEHRA DUN	N,E	e	07 54 14		Tremor				Sg	36 30			
05	SHILLONG	Z	IP	08 35 05		Slight				SS	36 34			
05	CHATRA	Z	eP	08 36 04	1080	Feeble		NEW DELHI	E	eP	18 36 26	520	Slight	
			IS	37 55					N	PP	36 33			
05	SHILLONG	Z	e	12 37 17		Slight				PPP	36 39			
05	CHATRA	Z	eP	20 16 55	70	Feeble				IS	37 21			
			IS	17 54						SS	37 31			
05	SHILLONG	Z	e	20 17 27		Slight	06	SHILLONG	Z	e	23 58 28		Slight	
06	SHILLONG	Z	e	00 22 33		Very slight, local	07	Epc: 1°N, 66°E. Indian Ocean. H = 09h 00m 46s (B.C.I.S).						
06	SHILLONG	Z	e	00 23 16		Very slight, local	MADRAS	E	eP	09 04 54	1250	Feeble		
06	Epc: 51°N, 156°E. In Kamchatka. H = 01h 54m 17s (U.S.C.G.S) Magnitude = 6% (Skainate Pleso, Takubaya), 6% (Pasadena), 6.5 (Roma), 6% (Hurbanovo), 6% (Kiruna).													
	SHILLONG	Z	eP	02 03 54	7580	Slight		POONA	Z,N	e	09 05 08		Feeble shock, Phases not clear.	
	DEHRA DUN	N	eP	02 04 30	6620	Slight		HYDERABAD	E	e	09 05 18			
			PP	06 15						e	07 15			
			IS	12 40				KODAIKANAL	E	IP	09 06 04	1270	Slight. First movement East.	
			PPS	13 02						PPP	06 25			
			SS	16 20						Lq	08 04			
			SSS	18 57						IS	08 13			
			Lq	20 03						SSS	08 37			
			Lr	22 24						Lr	08 37			
			M	27 04						M	09 31		Per. = 13 sec L = 11.5	
	NEW DELHI	N,E	eP?	02 04 42	6800	Moderate		COLOMBO	E	L	09 08 40		Amp. = 2.0 mm	
		N	i	08 54						M	11 00			
			IS	13 01				BOMBAY	N	e	09 06 57		Surface waves.	
			PPS	13 26				SHILLONG	Z	e	09 07 37		Slight	
			ScS	14 26				BOKARO	N	e	09 08 54		Slight, distant	
			Lq	20 41						i	13 48			
	HYDERABAD	E	IP	02 05 28	7600					i	18 48			
			PP	08 18				07	SHILLONG	Z	eP	09 52 47		Slight
			IS	14 30						IS	54 30		790 Feeble	
			SS	19 23		Per. = 16 sec L = 10		CHATRA	Z	eP	09 53 08	790	Feeble	
			L	26 28						IS	54 30			
			M	32 15				07	CHATRA	Z	eP	14 28 46	130	Feeble
	POONA	Z,N	eP	02 05 44	7850	Moderate. Initial ground movement towards South				IS	29 03			
		N	PcP	06 03				07	CHATRA	Z	IP	16 14 54	210	Feeble
		N,E	eS	14 58						IS	15 21			
		N	PPS	15 23				07	DEHRA DUN	N,E	e	17 09 00		Tremor
			SS	19 40						e	18 21 03		Slight	
			M	32 19				07	DEHRA DUN	E	e	23 33 23		Feeble, phases not clear.
	MADRAS	E	IP?	02 05 45		Slight, tremor.		08	SHILLONG	Z	e	06 25 01		Slight
	BOMBAY	N,E	e	02 05 45		Slight, Phases lost in microseisms.		08	CHATRA	Z	eP	13 04 18	470	Feeble
			e	15 02						IS	05 02			
	COLOMBO	E	P	02 06 10			08	Epc: 29H°N, 97°E. Sinkiang Province in China. H = 14h 12m 52s (U.S.C.G.S).						
			S	15 52										
			L	32 22										
			M	37 12		Amp. = 0.4 mm								

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	
July 1955							July 1955							
08	CHATRA	Z	e	14 14 05		Slight	10	SHILLONG	Z	e	00 03 43		Slight	
Contd				e 15 45			10	COLOMBO	E	P L M	14 48 -- 15 20 21 36 51		Amp. = 0.3 mm	
	SHILLONG	Z	eP	14 14 25	540	Moderate	10	CHATRA	Z	eP iS	17 03 17 05 05	1050	Feeble	
	DEHRA DUN	N,E	e	14 16 41		Feeble, phases not clear	10	DEHRA DUN	N,E	e	19 48 57		Slight Tremor.	
08	DEHRA DUN	N,E	e	16 10 55		Tremor	10	SHILLONG	Z	e	19 49 56		Slight	
08	CHATRA	Z	eP iS	17 24 42 25 04	180	Feeble	11	SHILLONG	Z	e	05 14 12		Slight	
08	SHILLONG	Z	eP i i	18 51 50 56 03 19 01 33		Slight, deep	11	SHILLONG	Z	e	12 20 04		Slight	
08	BOKARO	N,E	eP	19 01 56		Slight	11	SHILLONG	Z	e	17 23 39		Slight	
08	Epc: 3°S, 110°E. Java Sea. h = 600 Km - H = 19h 03m 00s (U.S.C.G.S)							11	SHILLONG	Z	e	18 07 32		Slight
	COLOMBO	E	i e e e	19 08 57 13 29 16 31 22 23 25 36			11	POONA	Z	eP	20 34 18		Tremor	
							11	COLOMBO	E	P L M	20 45 38 21 07 50 18 50		Amp. = 0.3 mm	
	MADRAS	E	iP	10 09 18		Slight, near	11	SHILLONG	Z	e	22 46 08		Slight	
	SHILLONG	Z	iP i iS i	19 09 23 11 13 14 20 18 27	3310	Moderate	12	DEHRA DUN	N,E	e	00 35 31		Tremor	
							12	DEHRA DUN	N,E	e	03 05 43		Tremor	
	KODAIKANAL	E	e	19 09 40		Tremor	12	SHILLONG	Z	e	15 05 34		Tremor	
	BOKARO	N,E	i iS i	19 09 42 14 46 18 12	3420	Slight	12	SHILLONG	Z	i i	15 53 14		Slight, local	
							12	CHATRA	Z	eP iS	15 54 07 54 43	320	Feeble	
	HYDERABAD	E	P S L	19 09 50 14 59 18 16	3510		12	CHATRA	Z	iP iS	15 54 51 55 25	300	Feeble	
	POONA	Z	iP eS Lq/SS SSS i MP	19 10 22 16 01 18 07 18 48 19 09 23 57	4000	Slight, first movement South	12	SHILLONG	Z	i i	18 18 12 18 59 15 59 53		Tremor	
		N,E					12	SHILLONG	Z	i i	18 59 15 59 53		Slight, near	
	BOMBAY	E	eP N E N	19 10 31 10 33 11 08 16 20 16 24 18 40 19 19	4190	Slight	12	SHILLONG	Z	iP	21 24 10		Slight	
		N					12	SHILLONG	Z	eP	22 22 25		Slight, compression	
16	NEW DELHI	N,E	iP iS SS Lq Lr	19 10 47 16 45 19 30 20 03 21 24	4300	Moderate. First movement South and East.	13	SHILLONG	Z	e	02 56 31		Tremor	
		N					13	SHILLONG	Z	i i	05 55 59 16 01 48 17 58 03		Tremor	
	DEHRA DUN	N,E	eP N iS PS PPS SS Lq SSS Lr M	19 10 52 13 05 16 56 17 05 17 18 19 39 19 56 20 18 21 51 24 51	4400	Moderate	13	SHILLONG	Z	i i	18 33 03 18 47 18 47 30		Tremor	
		N					13	SHILLONG	Z,E	iP PcP PP PPP iS PS SS SSS	18 51 39 51 58 53 52 55 24 19 00 40 01 14 05 02 07 36	7390	Slight. Compression First movement West	
09	SHILLONG	Z	e	00 40 13		Very slight, local	13	SHILLONG	Z	iP	20 35 28		Slight, rarefaction	
09	CHATRA	Z	ePg iSg	03 08 51 09 02	80	Feeble	13	CHATRA	Z	iP iS	21 31 03 31 22	150	Feeble	
09	SHILLONG	Z	e	20 20 06		Very slight, local	13	SHILLONG	Z	iP	21 31 45		Slight, compression	
09	DEHRA DUN	N,E	e	21 57 05		Tremor	13	SHILLONG	Z	iP	22 31 24		Slight, rare compression	
							14	SHILLONG	Z	iP	04 05 08		Slight. Compression	

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July 1955									July 1955										
16	MADRAS	E	eP	07	16	30	6060	Moderate	18	DEHRA DUN	N.E	e	10	43	14		Tremor		
Contd			PP		18	33			18	SHILLONG	Z	iP	10	45	14		Slight, compression		
			PPP		19	53			18	SHILLONG	Z	iP	10	49	48		Slight, compression		
			IS		24	08			18	DEHRA DUN	N.E	e	10	53	32		Tremor		
			PS		24	24			18	SHILLONG	Z	iP	11	42	13		Slight compression		
			ScS?		26	24			18	POONA	Z	eP	11	44	11		Tremor		
	BOKARO	N.E	iP	07	16	18	5730	Moderate	18	SHILLONG	Z	eP	11	52	14		Slight, Doubtful phases		
			PP		18	11			18	SHILLONG	Z	eP	14	20	56		Tremor		
			IS		23	39			18	SHILLONG	Z	iP	16	16	55		Slight, rarefaction		
			PS		23	47			18	CHATRA	Z	eP	23	15	37	170	Feeble		
			PPS		23	58			19	SHILLONG	Z	iP	00	45	39		Slight, compression		
			SSS		28	58			19	SHILLONG	Z	i	03	30	48		Slight		
			M		36	28		Per. 22.5 secs L = 19.8	19	CHATRA	Z	iP	03	31	14	150	Feeble		
	SHILLONG	Z, N.E	iP	07	16	46	6140	Moderate	19	SHILLONG	Z	i	04	41	49		Slight, distant		
		N	PcP		17	46		Rarefaction.	19 - Epc: 40°N, 68°E, Uzbek, U.S.S.R. H = 08h 47m 36s (U.S.C.G.S) Magnitude = 6 (Uppsala), 5.5 (Kiruna).										
			PP		18	53		First movement	DEHRA DUN	N.E	eP	08	50	36	1320		Moderate		
			PPP		20	00		North and West	N	PP		50	45						
		N.E	iS		24	30				PPP		50	53						
		N	PS		24	35				Lq		52	41						
			PPS		24	49				iS		52	49						
			ScS		26	43				SS		53	02						
			SS		27	50				SSS/Lr		53	13						
			Lq		30	09				Sg/M		54	10						
			Lr		32	54				NEW DELHI	N	eP	08	50	49	1390		Slight	
			M		37	57		Per. 15 secs L = 14		E	PP		50	58					
	KODAIKANAL	E	iP	07	16	51	5970	Slight, First movement East		N	PPP		51	03					
			PP		18	54				N.E	i		51	24					
			PPP		20	04				N	PP		51	03					
			iS		24	24				N.E	iS		53	11					
			SS		28	29					SS		53	23					
			Lq		29	58					SSS		53	35					
			SSS		29	59				BOKARO	N.E	eP	08	52	24	2700		Slight	
			Lr		32	29					iS		56	41					
			Mp		34	53		Per. 15 secs			Lq		57	42					
	SHILLONG	Z	Pg	08	50	55		Slight, local felt.			SS		58	06					
			Sg		51	03					SSS		58	25					
16	SHILLONG	Z	i	09	17	24		Slight			Lr		59	14					
16	SHILLONG	Z	iP	09	18	57		Slight, rarefaction			M		09	00	03				
16	SHILLONG	Z	i	11	36	57		Slight, local	POONA	Z	iP	08	50	24	930		Slight		
17	SHILLONG	Z	iP	08	03	17		Slight, compression			PP		50	58					
17	DEHRA DUN	N.E	e	08	04	07		Tremor			PPP		51	03					
	NEW DELHI	N.E	eP	08	22	10	1000	Slight, first motion towards South and West			i		51	24					
		E	Lq		23	43					iS		53	11					
		N.E	iS		23	53					SS		53	23					
		E	SS		24	05					SSS		53	35					
			Lr		24	09				BOKARO	N.E	eP	08	52	24	2700		Slight	
			Lr		24	09					iS		56	41					
			SSS		24	17					Lq		57	42					
			Sg		24	52					SS		58	06					
	SHILLONG	Z	e	08	24	24		Tremor			SSS		58	25					
17	DEHRA DUN	N.E	eP	09	22	00	930	Slight			Lr		59	14					
		N	PP		22	06					M		09	00	03				
			PPP		22	10				POONA	Z	iP	08	50	24	930		Slight	
			Lq		23	25					PP		50	58					
			iS		23	35					PPP		51	03					
			SS		23	47					i		51	24					
			Lr		23	50					N.E	iS		53	11				
			SSS		23	55					SS		53	23					
			Sg/M		24	29					SSS		53	35					
17	SHILLONG	Z	iP	12	35	21		Compression slight			Lr		57	49					
17	DEHRA DUN	N.E	e	14	31	08		Feeble, phases not clear			SS		57	37					
17	MADRAS	E	i	15	15	34		Slight			Lr		58	04					
17	CHATRA	Z	iPg	18	25	43	40	Feeble			PcS		59	52					
			iSg		28	49					M		09	00	03				
18	SHILLONG	Z	iP	00	23	29		Slight, near			ScS		03	48					
18	SHILLONG	Z	i	07	45	22		Tremor			SHILLONG	Z, N.E	iP	08	52	59	2710		Moderate
18	DEHRA DUN	N.E	e	09	50	41		Tremor			E	PP		53	21				
18	SHILLONG	Z	e	10	34	59		Tremor			PPP		53	34					
											iS		57	17					
											Lq		57	49					
											SS		58	08					
											Lr		58	56					
											M		09	00	03				
	MADRAS	E	e	08	55	28		Slight			SHILLONG	Z, N.E	iP	08	52	59	2710		Moderate
	KODAIKANAL	E	e	09	01	01		Tremor			E	PP		53	21				
19	SHILLONG	Z	eP	16	03	03	200	Slight, near			PPP		53	34					
			ePg		01	20					iS		57	17					
			eSg		01	56					Lq		57	49					
			SSS		02	15					SS		58	08					

DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T.	Δ	REMARKS
July				h. m. s.	km		July				h. m. s.	km	
1955							1955						
19	CHATRA	Z	eP	10 03 30	800	Feeble	23	BOKARO	N,E	eP	12 57 41	5700	Slight
	Contd.		iS	04 53				Contd.		PP	59 45		
19	DEHRA DUN	N,E	eP	15 16 15	860	Slight				PPP	13 00 49		
		N	PP	16 21						eS	05 00		
			PPP	16 30						PS	05 11		
			iS	17 43						PPS	05 19		
			Lr	17 53						SS	08 43		
			SSS	17 55						Lq/SSS	10 15		
			SSS	18 06						Lr	13 49		
			Sg/M	18 29						M	17 19		
19	SHILLONG	Z	iP	16 00 01		Slight, phases not developed	POONA	Z	eP	12 58 44	6420	Slight	
19	SHILLONG	Z	i	16 56 46		Tremor		E	PcS	59 21			
19	COLOMBO	E	eP	19 01 21		Amp. ≈ 0.4 mm			PP	13 00 59			
			M	01 39					PPP	02 21			
19	SHILLONG	Z	iP	20 03 14		Slight, phases not clear.	DEHRA DUN	N,E	e	12 58 56		Feeble, phases not clear	
	DEHRA DUN	N,E	eP	20 03 41		Tremor			i	13 00 54			
19	DEHRA DUN	N,E	e	23 13 10		Feeble, phases not clear	23	BOKARO	N	e	14 00 34		
20	DEHRA DUN	N,E	e	20 00 10		Tremor	23	COLOMBO	E	i	14 01 59		
20	SHILLONG	Z	eP	21 20 35		Slight	23	Epc: 94°N, 1224°E. Negros Islands.					
21	CHATRA	Z	iP	12 01 07	170	Feeble		- H = 13h 57m 04s (U.S.C.G.S)					
			iS	01 28			SHILLONG	Z,N,E	iP	14 03 40	3680	Moderate	
21	COLOMBO	E	P	12 05 10	8420			E	PP	04 55			
			S	14 52					PPP	05 09			
			L	23 --					iS	08 59			
	POONA	Z	iP	12 05 21		Slight, phases not clear			SS/Lq	11 07			
		E	i	05 50					SSS	11 38			
			i	06 48					Lr	11 49			
									M	15 23		Per. ≈ 23 secs Δ = 15	
	DEHRA DUN	N,E	e	12 05 22		Feeble, phases not clear	DEHRA DUN	N,E	eP	14 05 29	5210	Moderate	
			i	06 02				N	PPP	08 02			
	SHILLONG	Z,N,E	iPKP	12 05 36	3010	Slight, phases not clear			iS	12 20			
		E	i	06 08					PPS	12 39			
			e	07 12					SS	15 43			
			iS(?)	10 14					Lq	16 33			
			i	17 38					Lr	19 06			
22	CHATRA	Z	iPg	08 32 15	100	Feeble			M	22 26			
			iSg	32 29			POONA	Z	e	14 06 52		Feeble shock Phases not clear	
22	CHATRA	Z	iPg	08 36 10		Feeble, very near.	24	Epc: 36°N, 140°E. Southern Honshu, Japan.					
22	SHILLONG	Z,N,E	iP	15 43 28				- H = 11h 02m 14s (U.S.C.G.S)					
22	CHATRA	Z	eP	15 44 13	670	Slight	SHILLONG	Z,N,E	iP	11 10 04	4850	Moderate	
			iS	45 23				E	PP	11 51			
22	SHILLONG	Z	iP	22 08 19		Slight, local Phases not clear			PPP	12 33			
23	SHILLONG	Z	eP	12 48 55		Slight, local			iS	16 34			
23	CHATRA	Z	iP	12 49 49	770	Feeble			PS	16 39			
			iS	51 09					PPS	16 46			
23	Epc: 7°S, 1284°E. Banda Sea.								SS	19 35			
	- H = 12h 48m 25s (U.S.C.G.S)								Lq	20 29			
	COLOMBO	E	P	12 53 49					SSS	20 36			
			e	13 08 49					Lr	22 29			
			L	17 29					M	25 12			
			M	21 34		Amp. ≈ 0.5 mm	DEHRA DUN	N,E	eP	11 11 19	5610	Slight	
	SHILLONG	Z,N,E	iP	12 57 13		Slight, phases not clear		N	PP	13 23			
		E	i	57 34					iS	18 33			
			e	57 58					PS	18 39			
			e	58 34					PPS	18 56			
			i	59 13					SS	21 52			
	MADRAS	E	iP	12 57 41		Slight, other phases not clear			M	29 27			
							NEW DELHI	N,E	eP	11 11 25		Moderate, distant First motion 'West'.	
								N	i	11 45			
									e	18 53			
							COLOMBO	E	P	11 11 34	7870		
									S	20 49			
									M	40 39		Amp. 0.4 mm	
							MADRAS	E	iP	11 12 05		Slight. Other phases not clear	
							POONA	Z,E	iP	11 12 20		Tremor	

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	
July 1955							July 1955							
24	BOKARO	E	i	14 48 51		Slight	27	POONA	Z	eP	01 30 28		Very feeble	
Contd.			e	49 42			Contd.							
			e	50 50				BOKARO	N,E	e	01 35 33		Slight	
24	Epc: 24°N, 122°E. Near East Coast of Formosa H = 16h 20m 03s (U.S.C.G.S)													
	SHILLONG	Z,N,E	iP	16 25 52	3045	Moderate		COLOMBO	E	P	01 38 42		'L'doubtful	
			PP	26 32						L	50 20		Amp. \approx 0.5 mm	
			PPP	26 50						M	58 22			
			iS	30 32			27	DEHRA DUN	N,E	e	01 45 24		Feeble, Phases not clear	
			Lq	31 36						i	45 52			
			SS	32 01			27	SHILLONG	Z	e	05 10 15		Slight	
			SSS	32 17				DEHRA DUN	N,E	e	05 28 57		Tremor	
			Lr	32 51										
			M	35 10										
	BOKARO	N,E	iP	16 26 44	3580	Slight	27	SHILLONG	Z	eP	07 42 47		Slight, local	
			PP	26 59				CHATRA	Z	iP	07 43 25	550	Feeble	
			eS	31 57						iS	44 23			
	COLOMBO	E	P	16 27 09			27	SHILLONG	Z	eP	08 54 49		Slight, local	
			S	34 39				CHATRA	Z	eP	08 55 10	430	Feeble	
			L	41 49						iS	55 56			
			M	45 54		Amp. \approx 0.6	27	SHILLONG	Z	eP	09 35 19		Slight, local	
	DEHRA DUN	N,E	eP	16 27 38	4290	Slight		SHILLONG	Z	eP	13 11 47		Slight, local	
		N	PP	29 09				CHATRA	Z	iP	13 12 40	670	Feeble	
			PPP	29 43						iS	13 50			
			iS	33 36			27	CHATRA	Z	iPg	16 23 33	130	Feeble	
			PPS	34 00						iSg	23 48			
			SS	36 24			27	BOKARO	E	i	17 17 07		Slight	
			Lq	36 39						i	17 45 57		Feeble	
			SSS	37 15						i	53 36			
			Lr	38 37			27	Epc: 56°N, 153°W. Near South Coast of Kodiak Island. H = 18h 19m 08s (U.S.C.G.S) Magnitude = 6.5 (Takubaya), 6 $\frac{1}{2}$ -6 $\frac{1}{2}$ (DeBilt), 6 $\frac{1}{2}$ (Pasadena, Kiruna, Roma), 6 (Uppsala).						
			M	41 58				SHILLONG	Z	eP	18 31 29		Slight	
	NEW DELHI	N,E	P	16 27 44	4310	Moderate		DEHRA DUN	N,E	eP	18 31 42	9440	Moderate, distant.	
		N	iS	33 44					N	PP	35 19			
			SS	36 28						iS	42 11			
			Lq	36 44						PS	43 29			
			Lr	37 59						PPS	43 48			
	MADRAS	E	iP	16 27 49		Slight, other phases not clear				SS	47 35			
										SSS	52 08			
	POONA	Z,E	iP	16 29 19	4840	Slight				Lq	55 49			
		E	PP	30 49						Lr	19 00 33			
			i	31 05						M	08 36			
			PPP	31 28										
			eS	35 49										
			i	39 27										
			M(?)	45 56										
25	DEHRA DUN	N,E	e	01 33 51		Feeble, phases not clear		NEW DELHI	N,E	eP	18 31 46	9510	Moderate.	
			i	34 28					N	i	34 05			
			i	35 15						PP	35 11			
25	SHILLONG	Z	e	05 41 24		Slight, Beginning doubtful.				PPP	37 04			
										iS	40 42			
25	SHILLONG	Z	e	05 58 13		Slight, Beginning doubtful due to microseisms.				PPS	43 42			
										SS	47 55			
25	POONA	Z	eP	11 42 14		Tremor				SSS	51 07			
	DEHRA DUN	N,E	e	11 42 25		Tremor				M	19 05 54			
25	DEHRA DUN	N,E	e	14 41 23		Tremor		HYDERABAD	E	M	19 09 22		Per. \approx 21 secs μ \approx 16	
26	HYDERABAD	E	M	04 57 23		Per. \approx 15 secs μ \approx 4		MADRAS	E	M	19 11 21		Other phases not clear.	
26	SHILLONG	Z	e	19 02 45		Slight, near		POONA	Z	eP	18 32 45		Very feeble distant shock. Phases not clear	
26	DEHRA DUN	N,E	e	22 12 48		Feeble, phases not clear			N	e	45 06			
			i	14 41						e	45 44			
	NEW DELHI	N	eP	22 13 05	1180	Slight				e	47 00			
		E	i	13 35						e	50 19			
			iS	15 06						e	19 13 19			
		N,E	SS	15 17										
			SSS	15 27										
			S*	15 45										
27	SHILLONG	Z,N,E	iP	00 28 17		Moderate shock Phases not clear		BOKARO	N,E	eP	18 34 11		Slight	
	DEHRA DUN	N,E	e	01 29 26		Feeble, phases not clear.				e	42 11			
										e	18 47 20			
										L	19 12 30			
										M	19 36		Amp. \approx 1.1	

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July 1955							July 1955						
27	KODAIKANAL	E	e	19 08 32			29	SHILLONG	Z	e	21 24 09		Slight
27	SHILLONG	Z	eP	19 40 52		Slight	29	SHILLONG	Z	e	22 10 38		Slight
28	SHILLONG	Z	eP	03 11 26		Slight. Compression.	29	CHATRA	Z	iP iS	22 58 35 58 53	140	Feeble
28	SHILLONG	Z	e	05 17 43		Slight. Compression	29	SHILLONG	Z	e	23 02 58		Compression. Slight.
28	SHILLONG	Z	e	12 09 07		Slight	30	DEHRA DUN	N,E	e	08 58 11		Feeble. Phases not clear
28	DEHRA DUN	N,E	e	21 05 50		Tremor	30	SHILLONG	Z	e	23 12 00		Slight, local.
29	CHATRA	Z	iP iS	01 35 48 36 06	140	Feeble	31	SHILLONG	Z	e	07 46 13		Slight, local
29	CHATRA	Z	iP iS	05 59 47 06 00 06	150	Feeble		CHATRA	Z	iP iS	07 47 09 48 30	780	Feeble
29	SHILLONG	Z	eP	08 01 05		Slight, local	31	CHATRA	Z	eP iS	13 08 24 09 00	320	Feeble
29	DEHRA DUN	N,E	e i	13 57 26 57 56		Feeble. Phases not clear	31	SHILLONG	Z	e	17 45 55		Slight, local.
29	CHATRA	Z	iPg iSg.	16 00 54 01 03	70	Feeble		CHATRA	Z	iP iS	17 46 57 48 10	700	Feeble

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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 month of July 1955.

PLACE AT WHICH FELT	DATE IN G.M.T.	TIME IN G.M.T. h. m.	DURATION IN secs	INTENSITY IN R.F. SCALE	NUMBER OF SHOCKS.	REMARKS
SRINAGAR	03	13 59	15	IV	2	
SHILLONG	16	08 52	2	IV	1	
GAUHATI	22	15 43	3	IV	2	
SHILLONG	22	15 43	4	IV	1	
GAUHATI AIRPORT	22	15 42	4	IV	1	

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GOVERNMENT OF INDIA  
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



Oct  
1955

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

FEB 14 1961

- 2 -

Instruments and their constants

| Station    | Instrument                            | Compt. | Period<br>in<br>secs     | Static<br>Magnifi-<br>cation | Damping<br>ratio | Paper<br>Speed<br>mm/min |
|------------|---------------------------------------|--------|--------------------------|------------------------------|------------------|--------------------------|
| Bombay     | Milne-Shaw                            | N-S    | 12.0                     | 350                          | 18:1             | 16                       |
|            | Milne-Shaw                            | E-W    | 12.0                     | 350                          | 9:1              | 8                        |
|            | Sprengnether<br>Microseismo-<br>graph | E-W    | $T_0 = T_g$<br>$= 7.0$   | -                            | -                | 30                       |
|            |                                       |        |                          |                              |                  |                          |
| Calcutta   | Milne-Shaw                            | E-W    | 10.0                     | 150                          | 20:1             | 8                        |
|            | Wood-Anderson                         | N-S    | 2.0                      | 870                          | Critical         | 30                       |
|            | Omori-Ewing                           | N-S    | 18.0                     | 32                           | -                | 25                       |
|            | Omori-Ewing                           | E-W    | 19.0                     | 30                           | -                | 25                       |
| Dhatra     | Benioff                               | Z      | $T_0=0.72$<br>$T_g=0.45$ | -                            | Critical         | 60                       |
|            | Wood-Anderson                         | N      | 1.0                      | 1000                         | 30:1             | 60                       |
|            | Wood-Anderson                         | E      | 1.0                      | 1000                         | 40:1             | 60                       |
|            | Milne-Shaw                            | E      | 12.0                     | 250                          | 20:1             | 16                       |
| Colombo    | Milne-Shaw                            | E-W    | 12.0                     | 250                          | 20:1             | -                        |
| Dehra Dun  | Milne-Shaw                            | N-S    | 12.0                     | 250                          | 20:1             | 16                       |
|            | Milne-Shaw                            | E-W    | 12.0                     | 250                          | 20:1             | 16                       |
|            | Wood-Anderson                         | N-S    | 0.8                      | 800                          | 60:1             | 60                       |
|            | Wood-Anderson                         | E-W    | 0.8                      | 950                          | 60:1             | 60                       |
| Hyderabad  | Milne-Shaw                            | N-S    | 12.0                     | 252                          | 20:1             | 8                        |
|            | Milne-Shaw                            | E-W    | 12.0                     | 253                          | 20:1             | 8                        |
| Kodaikanal | Milne-Shaw                            | E-W    | 10.0                     | 250                          | 20:1             | 8                        |
| Madras     | Sprengnether<br>Microseismograph      | E-W    | $T_0 = T_g$<br>$= 7.2$   | -                            | -                | 30                       |
| New Delhi  | Milne-Shaw                            | N-S    | 12.0                     | 288                          | 20:1             | 8                        |
|            | Wood-Anderson                         | N-S    | 4.0                      | 1070                         | 20:1             | 16                       |
|            | Wood-Anderson                         | E-W    | 2.0                      | 1841                         | 30:1             | 60                       |
|            | Omori-Ewing                           | E-W    | 28.0                     | 30                           | 1                | 12                       |
| Poona      | Sprengnether<br>Microseismograph      | Z      | $T_0=1.5$<br>$T_g=1.5$   | -                            | -                | 30                       |
|            | Wood-Anderson                         | E-W    | 4.0                      | 1100                         | 20:1             | 16                       |
|            | Milne-Shaw                            | N-S    | 12.0                     | 250                          | 20:1             | 8                        |
| Shillong   | Milne-Shaw                            | N-S    | 12.0                     | 250                          | 20:1             | 8                        |
|            | Benioff Short<br>Period               | Z      | $T_0=1.0$<br>$T_g=0.18$  | -                            | -                | 60                       |
|            | Wood-Anderson                         | E-W    | 0.8                      | 1000                         | -                | 30                       |
|            | Wood-Anderson                         | N-S    | 0.8                      | 1000                         | -                | 30                       |
|            | Wood-Anderson                         | N-S    | 4.0                      | 1120                         | -                | 30                       |

| DATE        | STATION                                                                                                            | COMPT    | PHASE                                                        | G. M. T.                                                                                     | Δ    | REMARKS                                                       | DATE        | STATION                                                                                                         | COMPT                              | PHASE                                            | G. M. T.                                                                         | Δ    | REMARKS                                         |  |
|-------------|--------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------|------|---------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------|------|-------------------------------------------------|--|
| August 1955 |                                                                                                                    |          |                                                              | h. m. s.                                                                                     | km   |                                                               | August 1955 |                                                                                                                 |                                    |                                                  | h. m. s.                                                                         | km   |                                                 |  |
| 01          | NEW DELHI                                                                                                          | N,E      | iPg<br>iSg                                                   | 08 06 07<br>06 13                                                                            | 40   | Slight. First ground movement East.                           | 03          | BOKARO                                                                                                          | N,E                                | eP<br>e<br>e<br>e<br>i<br>e<br>e<br>e            | 17 12 36<br>12 43<br>12 51<br>15 08<br>15 21<br>15 32<br>15 47<br>16 32<br>16 45 |      | Slight                                          |  |
|             | DEHRA DUN                                                                                                          | N,E      | e                                                            | 08 06 39                                                                                     |      | Tremor                                                        |             |                                                                                                                 |                                    |                                                  |                                                                                  |      |                                                 |  |
| 02          | Epc: 9°N, 94°E. Nicobar Islands Region<br>- H = 06h 50m 28s (Shillong)<br>9½°N, 94½°E. - H = 06h 50m 20s (B.C.I.S) |          |                                                              |                                                                                              |      |                                                               |             |                                                                                                                 |                                    |                                                  |                                                                                  |      |                                                 |  |
|             | MADRAS                                                                                                             | E        | iP<br>Lq<br>iS<br>SS<br>Lr                                   | 06 53 46<br>56 09<br>56 10<br>56 33<br>56 52                                                 | 1410 | Moderate. First ground movement West                          |             | DEHRA DUN                                                                                                       | N,E                                | e<br>i<br>i<br>i<br>i                            | 17 13 05<br>16 24<br>16 49<br>17 13<br>19 06                                     |      | Slight. Phases not clear                        |  |
|             | SHILLONG                                                                                                           | Z,E<br>E | iP<br>i<br>PP<br>PPP<br>iS<br>SS<br>SSS<br>Lr<br>PcP<br>M(?) | 06 54 13<br>54 20<br>54 27<br>54 34<br>57 11<br>57 33<br>57 46<br>57 36<br>58 57<br>07 00 16 | 1780 | Slight. Rarefaction First movement East.<br><br>M. Suppressed |             | NEW DELHI                                                                                                       | E<br>N,E<br>E<br>N                 | eP<br>PPP<br>Lq<br>iS<br>SS<br>SSS<br>M          | 17 13 11<br>13 29<br>15 24<br>15 31<br>15 45<br>15 57<br>17 01                   | 1380 | Slight                                          |  |
|             | BOKARO                                                                                                             | N,E      | iP<br>iS                                                     | 06 54 15<br>57 16                                                                            | 1810 | Slight. First ground movement South and West.                 |             | POONA                                                                                                           | N                                  | eP<br>eS<br>Lr<br>M                              | 17 14 57<br>18 45<br>20 01<br>21 32                                              | 2320 | Slight                                          |  |
|             | POONA                                                                                                              | E        | eP<br>PP<br>PPP<br>eS<br>Lq<br>SS<br>Lr                      | 06 55 09<br>55 39<br>55 46<br>59 05<br>59 27<br>59 49<br>07 00 29                            | 2410 | Very slight Other phases not clear                            |             | BOMBAY                                                                                                          | N,E                                | e                                                | 17 21 34                                                                         |      | Surface waves of near shock of slight intensity |  |
|             | NEW DELHI                                                                                                          | N,E      | eP<br>PP<br>PPP<br>iS<br>Lq<br>SS<br>Lr                      | 06 55 45<br>56 12<br>56 21<br>59 54<br>07 00 26<br>00 41<br>01 22                            | 2580 | Slight                                                        | 03          | DEHRA DUN                                                                                                       | N,E                                | e<br>i                                           | 18 19 39<br>21 13                                                                |      | Feeble                                          |  |
|             | DEHRA DUN                                                                                                          | N,E<br>N | eP<br>PP<br>PPP<br>iS<br>Lq<br>SS<br>SSS<br>Lr<br>M          | 06 55 51<br>56 23<br>56 33<br>07 00 06<br>00 37<br>00 54<br>01 08<br>01 44<br>03 34          | 2660 | Slight                                                        | 03          | DEHRA DUN                                                                                                       | N,E                                | e<br>i<br>i                                      | 22 46 51<br>50 41<br>53 32                                                       |      | Feeble. Phases not clear                        |  |
|             | BOMBAY                                                                                                             | N        | e<br>M                                                       | 06 59 22<br>07 00 32                                                                         |      | Near, feeble shock.                                           |             | NEW DELHI                                                                                                       | N,E<br>N                           | eP<br>eS<br>M                                    | 22 47 00<br>57 00<br>54 11                                                       | 2450 | Slight                                          |  |
| 02          | DEHRA DUN                                                                                                          | N,E      | e                                                            | 13 02 52                                                                                     |      | Tremor                                                        |             | POONA                                                                                                           | N                                  | e<br>e                                           | 22 53 06<br>57 21                                                                |      | Feeble shock. Phases not clear.                 |  |
| 02          | CHATRA                                                                                                             | Z        | eP<br>iS                                                     | 18 22 28<br>22 47                                                                            | 150  | Feeble                                                        |             | SHILLONG                                                                                                        | Z                                  | eP                                               | 22 56 27                                                                         |      | Slight. Compression.                            |  |
| 02          | SHILLONG                                                                                                           | Z        | e                                                            | 22 30 52                                                                                     | 830  | Tremor                                                        | 04          | Epc: Bay of Bengal. - H = 00h 00m 00s (U.S.C.G.S)                                                               |                                    |                                                  |                                                                                  |      |                                                 |  |
|             | CHATRA                                                                                                             | Z        | iP<br>iS                                                     | 22 31 43<br>33 09                                                                            |      |                                                               |             | BOKARO                                                                                                          | N,E                                | eP<br>PPP<br>eS<br>Lq<br>SS<br>S*<br>SSS<br>Sg/M | 00 01 48<br>02 01<br>02 52<br>02 56<br>03 04<br>03 09<br>03 16<br>03 24          | 610  | Slight. First ground movement West.             |  |
| 03          | CHATRA                                                                                                             | Z        | iP<br>iS                                                     | 03 30 15<br>30 33                                                                            | 140  | Feeble                                                        |             | SHILLONG                                                                                                        | Z                                  | e<br>i                                           | 00 02 12<br>03 42                                                                |      | Slight, near.                                   |  |
| 03          | CHATRA                                                                                                             | Z        | iPg<br>iSg                                                   | 13 49 24<br>49 34                                                                            | 70   | Feeble                                                        |             | CHATRA                                                                                                          | Z                                  | eP<br>eS                                         | 00 02 35<br>03 59                                                                | 510  | Slight                                          |  |
| 03          | CHATRA                                                                                                             | Z        | iPg<br>iSg                                                   | 15 55 51<br>55 54                                                                            | 20   | Feeble                                                        |             | NEW DELHI                                                                                                       | N,E<br>E<br>N,E<br>N,E<br>E<br>N,E | eP<br>PP<br>iS<br>SS<br>SSS<br>Lr<br>S*          | 00 03 37<br>03 47<br>06 10<br>06 26<br>06 36<br>06 42<br>07 06                   | 1510 | Slight                                          |  |
| 03          | Epc: Eastern Tibet. - H = 17h 10m 15s (U.S.C.G.S)<br>32°N, 91½°E. - H = 17h 10m 15s (B.C.I.S)                      |          |                                                              |                                                                                              |      |                                                               |             | DEHRA DUN                                                                                                       | N,E                                | e<br>i                                           | 00 03 53<br>06 29                                                                |      | Feeble. Phases not clear                        |  |
|             | CHATRA                                                                                                             | Z        | eP<br>i                                                      | 17 11 50<br>13 03                                                                            |      | Slight                                                        | 04          | Epc: 29°N, 86.5°E. In Tibet. - H = 06h 40m 49s (Shillong)<br>30½°N, 86½°E. - H = 06h 40m 48s (U.S.C.G.S & BCIS) |                                    |                                                  |                                                                                  |      |                                                 |  |
|             | SHILLONG                                                                                                           | Z,E<br>E | iP<br>PP<br>i<br>Lq<br>eS<br>Lr<br>SSS<br>M                  | 17 11 51<br>12 01<br>12 31<br>12 51<br>12 59<br>13 07<br>13 23<br>13 32                      | 640  | Slight. compression                                           |             | CHATRA                                                                                                          | Z                                  | iP<br>iS                                         | 06 41 53<br>42 40                                                                | 430  | Slight                                          |  |





| DATE | STATION   | COMPT | PHASE                                    | G. M. T.                                                       | $\Delta$ | REMARKS                                                                                                            | DATE                                                                                                                                | STATION    | COMPT   | PHASE                              | G. M. T.                                              | $\Delta$ | REMARKS                                     |
|------|-----------|-------|------------------------------------------|----------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------|---------|------------------------------------|-------------------------------------------------------|----------|---------------------------------------------|
| 1955 |           |       |                                          | h. m. s.                                                       | km       |                                                                                                                    | 1955                                                                                                                                |            |         |                                    | h. m. s.                                              | km       |                                             |
| 05   | SHILLONG  | Z, E  | eP<br>E<br>Lq<br>eS<br>Lr/SS<br>SSS<br>M | 19 32 02<br>32 11<br>33 19<br>33 31<br>33 40<br>33 53<br>34 16 | 870      | Slight.<br>Compression.<br>Initial ground<br>movement towards<br>East.<br><br>Per $\approx$ 7.5 secs<br>$\mu = 30$ | 11                                                                                                                                  | DEHRA DUN  | N, E    | e                                  | 19 51 57                                              |          | Tremor                                      |
| 06   | DEHRA DUN | N, E  | e                                        | 19 37 54                                                       |          | Tremor                                                                                                             | 11                                                                                                                                  | SHILLONG   | Z, E    | eP<br>i<br>iS(?)                   | 22 48 30<br>49 36<br>50 19                            | 1070     | Moderate. Other<br>phases not<br>clear      |
| 07   | SHILLONG  | Z     | iP                                       | 12 44 45                                                       |          | Slight.<br>Rarefaction                                                                                             |                                                                                                                                     | CHATRA     | Z       | eP<br>iS                           | 22 49 11<br>50 49                                     | 950      | Slight                                      |
| 07   | CHATRA    | Z     | eP<br>iS                                 | 23 21 28<br>21 46                                              | 140      | Feeble                                                                                                             | 11                                                                                                                                  | SHILLONG   | Z       | iP                                 | 23 36 40                                              |          | Slight,<br>compression.                     |
| 08   | SHILLONG  | Z     | i                                        | 06 15 14                                                       |          | Slight, local                                                                                                      | 12                                                                                                                                  | DEHRA DUN  | N, E    | e                                  | 05 28 57                                              |          | Tremor                                      |
| 08   | CHATRA    | Z     | iPg<br>iSg                               | 15 33 21<br>33 28                                              | 50       | Feeble                                                                                                             | 12                                                                                                                                  | CHATRA     | Z       | ePg<br>iSg                         | 06 16 59<br>17 01                                     | 10       | Feeble                                      |
| 08   | CHATRA    | Z     | iP<br>iS                                 | 17 31 02<br>31 23                                              | 170      | Slight                                                                                                             | 12                                                                                                                                  | SHILLONG   | Z       | e                                  | 08 02 30                                              |          | Slight,<br>compression                      |
| 08   | SHILLONG  | Z     | i                                        | 17 31 29                                                       |          | Tremor                                                                                                             | 12                                                                                                                                  | CHATRA     | Z       | iP<br>iS                           | 10 47 45<br>48 17                                     | 280      | Feeble                                      |
| 08   | CHATRA    | Z     | i                                        | 17 43 57                                                       |          | Tremor                                                                                                             | 13                                                                                                                                  | CHATRA     | Z       | ePg<br>iSg                         | 08 38 44<br>38 46                                     | 10       | Feeble                                      |
| 08   | CHATRA    | Z     | iP<br>iS                                 | 17 44 22<br>45 11                                              | 450      | Slight                                                                                                             | 13                                                                                                                                  | DEHRA DUN  | N, E    | e<br>i                             | 15 37 04<br>37 20                                     |          | Feeble. Phases<br>not clear                 |
| 08   | CHATRA    | Z     | eP<br>iS                                 | 22 54 55<br>55 16                                              | 170      | Feeble                                                                                                             | 13                                                                                                                                  | CHATRA     | Z       | eP<br>iS                           | 16 51 54<br>52 11                                     | 130      | Feeble                                      |
| 09   | SHILLONG  | Z     | iP                                       | 00 31 32                                                       |          | Slight. Rarefac-<br>tion. Other<br>phases not clear.                                                               | 13                                                                                                                                  | SHILLONG   | Z       | e                                  | 17 18 40                                              |          | Slight.<br>Compression.                     |
| 09   | CHATRA    | Z     | iP<br>iS                                 | 00 40 53<br>41 41                                              | 440      | Slight                                                                                                             | 14                                                                                                                                  | SHILLONG   | Z       | i                                  | 12 22 40                                              |          | Slight.<br>Rarefaction                      |
|      | DEHRA DUN | N, E  | e<br>i<br>i                              | 00 41 44<br>43 02<br>43 49                                     |          | Feeble, phases<br>not clear                                                                                        | 14                                                                                                                                  | SHILLONG   | Z       | e                                  | 12 38 36                                              |          | Slight.<br>Compression                      |
| 09   | CHATRA    | Z     | iPg<br>iSg                               | 09 11 53<br>11 56                                              | 40       | Feeble                                                                                                             | 14                                                                                                                                  | CHATRA     | Z       | iPg<br>iSg                         | 13 24 11<br>24 12                                     | 10       | Feeble,<br>very near.                       |
| 09   | CHATRA    | Z     | iPg<br>iSg                               | 14 17 33<br>17 41                                              | 60       | Feeble                                                                                                             | 14                                                                                                                                  | COLOMBO    | E       | P<br>S<br>L<br>M                   | 17 01 45<br>11 00<br>33 55<br>40 30                   | 7880     | Amp $\approx$ 0.3 mm                        |
| 09   | DEHRA DUN | N, E  | e                                        | 15 13 58                                                       |          | Tremor                                                                                                             | 14                                                                                                                                  | MADRAS     | E       | eP                                 | 17 11 11                                              |          | Tremor                                      |
| 09   | SHILLONG  | Z     | eP<br>PP<br>S*<br>Sg<br>SSS              | 21 06 20<br>06 28<br>00 33<br>00 37<br>01 00                   | 130      | Slight, near.                                                                                                      |                                                                                                                                     | KODAIKANAL | E       | e                                  | 17 11 26                                              |          | Tremor                                      |
| 10   | BOKARO    | E     | e                                        | 02 14 33<br>21 09                                              |          | Feeble                                                                                                             |                                                                                                                                     | DEHRA DUN  | N, E    | i                                  | 17 12 53                                              |          | Slight, phases<br>not clear                 |
| 10   | BOKARO    | E     | e                                        | 04 41 36                                                       |          | Feeble                                                                                                             | 14                                                                                                                                  | SHILLONG   | Z       | e                                  | 21 07 41                                              |          | Slight.<br>Compression                      |
| 10   | BOKARO    | E     | e                                        | 09 03 53                                                       |          | Feeble                                                                                                             | 14                                                                                                                                  | SHILLONG   | Z       | i                                  | 22 38 19                                              |          | Compression                                 |
| 10   | BOKARO    | E     | e                                        | 09 20 12                                                       |          | Feeble                                                                                                             | 15                                                                                                                                  | CHATRA     | Z       | iPg<br>iSg                         | 05 01 42<br>01 45                                     | 20       | Feeble                                      |
| 10   | BOKARO    | E     | e                                        | 10 29 05                                                       |          | Feeble                                                                                                             | 15                                                                                                                                  | SHILLONG   | Z       | e                                  | 11 21 29                                              |          | Slight, local                               |
| 10   | SHILLONG  | Z     | e                                        | 16 07 39                                                       |          | Slight. Distant<br>Phases not clear                                                                                |                                                                                                                                     | CHATRA     | Z       | iP<br>iS                           | 11 21 47<br>22 30                                     | 390      | Feeble                                      |
| 10   | DEHRA DUN | N, E  | e                                        | 16 08 40                                                       |          | Tremor                                                                                                             | 15                                                                                                                                  | SHILLONG   | Z       | i                                  | 16 38 05                                              |          | Slight, local.<br>Rarefaction               |
| 10   | DEHRA DUN | N, E  | e                                        | 16 54 53                                                       |          | Tremor                                                                                                             | Epc: 25.3°N, 95.4°E. Assam-Burma Border.<br>- H $\approx$ 16h 43m 43s (Shillong)<br>24°N, 95°E. - H $\approx$ 16h 43m 52s (B.C.I.S) |            |         |                                    |                                                       |          |                                             |
| 10   | CHATRA    | Z     | eP<br>iS                                 | 18 46 48<br>47 06                                              | 140      | Feeble                                                                                                             |                                                                                                                                     | SHILLONG   | Z, N, E | iP<br>N<br>PPP<br>iS<br>SS<br>SS/M | 16 44 57<br>45 12<br>45 45<br>45 57<br>46 12          | 440      | Moderate                                    |
| 10   | MADRAS    | E     | eP                                       | 22 06 55                                                       |          | Tremor                                                                                                             |                                                                                                                                     | CHATRA     | Z       | eP<br>i                            | 16 45 59<br>47 42                                     |          | Slight                                      |
| 11   | CHATRA    | Z     | iPg<br>iSg                               | 14 27 12<br>27 21                                              | 70       | Slight<br>Feeble                                                                                                   |                                                                                                                                     | BOKARO     | N, E    | eP<br>PP<br>PP<br>Lq<br>iS<br>M    | 16 46 35<br>46 39<br>46 43<br>47 43<br>47 56<br>48 43 | 780      | Slight. Initial<br>ground movement<br>North |
| 11   | SHILLONG  | Z     | eP                                       | 17 44 30                                                       |          | Slight, phases<br>not clear.                                                                                       |                                                                                                                                     |            |         |                                    |                                                       |          |                                             |
| 11   | DEHRA DUN | N, E  | e                                        | 17 55 43                                                       |          | Tremor                                                                                                             |                                                                                                                                     |            |         |                                    |                                                       |          |                                             |
| 11   | SHILLONG  | Z     | e                                        | 19 33 22                                                       |          | Tremor                                                                                                             |                                                                                                                                     |            |         |                                    |                                                       |          |                                             |







| DATE        | STATION                                                                                                                                                                                                       | COMPT    | PHASE                                                      | G. M. T.                                                                                  | $\Delta$ | REMARKS                                                | DATE        | STATION                                                                                                                                                                                                                                                   | COMPT                                                                                             | PHASE                                                                                                                   | G. M. T.                            | $\Delta$                                        | REMARKS                               |                      |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------|--------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------|---------------------------------------|----------------------|
|             |                                                                                                                                                                                                               |          |                                                            | h. m. s.                                                                                  | km       |                                                        |             |                                                                                                                                                                                                                                                           |                                                                                                   |                                                                                                                         | h. m. s.                            | km                                              |                                       |                      |
| August 1955 |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | August 1955 |                                                                                                                                                                                                                                                           |                                                                                                   |                                                                                                                         |                                     |                                                 |                                       |                      |
| 22          | CHATRA                                                                                                                                                                                                        | Z        | iPg<br>iSg                                                 | 22 33 32<br>33 33                                                                         | 10       | Feeble                                                 | 23          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i<br>i                                                                                                                  | 18 00 37<br>00 56                   |                                                 | Tremor, near                          |                      |
| 23          | CHATRA                                                                                                                                                                                                        | Z        | eP<br>iS                                                   | 02 07 43<br>08 48                                                                         | 620      | Feeble                                                 | 23          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i<br>i                                                                                                                  | 19 25 04<br>25 37                   |                                                 | Slight, near                          |                      |
| 23          | DEHRA DUN                                                                                                                                                                                                     | N,E      | e<br>i                                                     | 06 35 42<br>37 13                                                                         |          | Feeble, phases not clear                               | 23          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 21 01 50                            |                                                 | Tremor                                |                      |
| 23          | SHILLONG                                                                                                                                                                                                      | Z        | iP                                                         | 10 00 38                                                                                  |          | Slight                                                 | 23          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 22 51 14                            |                                                 | Tremor                                |                      |
| 23          | Epc: 31°N, 71½°E. Central Pakistan.<br>- H = 14h 09m 26s (Shillong)<br>31°N, 71½°E. - h = 60 KmCa. - H = 14h 09m 17s (USCGS)<br>Magnitude = 6½ (Shillong). Felt at Leh,<br>Multan, Bahawalpur and Montgomery. |          |                                                            |                                                                                           |          |                                                        |             | 24                                                                                                                                                                                                                                                        | SHILLONG                                                                                          | Z                                                                                                                       | iP                                  | 22 23 33                                        |                                       | Slight. Compression. |
|             | NEW DELHI                                                                                                                                                                                                     | N,E      | iP<br>P*<br>PPP<br>Pg<br>iS<br>Sg                          | 14 10 46<br>10 56<br>11 00<br>11 09<br>11 46<br>12 14                                     | 570      | Slight. Initial ground movement towards North and West | 24          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i                                                                                                                       | 22 42 03                            |                                                 | Slight, near. Phases not clear        |                      |
|             | DEHRA DUN                                                                                                                                                                                                     | N,E<br>N | eP<br>PP<br>PPP<br>Lq<br>iS<br>Lr<br>SS<br>SSS<br>Sg       | 14 10 51<br>11 04<br>11 17<br>11 47<br>11 58<br>12 04<br>12 10<br>12 24<br>12 35          | 640      | Slight                                                 | 25          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i<br>i                                                                                                                  | 04 15 11<br>15 24                   |                                                 | Slight, local                         |                      |
|             | HYDERABAD                                                                                                                                                                                                     | E        | e<br>eP<br>iS<br>M                                         | 14 11 30<br>12 18<br>14 45<br>17 21                                                       | 1440     | Moderate<br>Per. = 6 secs<br>$\mu = 22$                | 26          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e<br>i                                                                                                                  | 00 02 46<br>03 15                   |                                                 | Feeble, phases not clear.             |                      |
|             | BOMBAY                                                                                                                                                                                                        | E        | eP<br>i<br>Lq<br>eS<br>SS<br>SSS<br>M                      | 14 12 12<br>13 22<br>14 10<br>14 18<br>14 32<br>14 42<br>16 20                            | 1230     | Slight                                                 | 26          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 11 21 59                            |                                                 | Tremor                                |                      |
|             | POONA                                                                                                                                                                                                         | Z<br>E   | eP<br>PP<br>Lq<br>eS<br>SS<br>Lr<br>M                      | 14 12 33<br>12 42<br>14 46<br>14 57<br>15 04<br>15 20<br>16 22                            | 1410     | Slight<br>Per. = 9.7 secs<br>$\mu = 17.7$              | 26          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 17 09 22                            |                                                 | Tremor                                |                      |
|             | BOKARO                                                                                                                                                                                                        | N,E      | eP<br>Lq<br>eS<br>SS<br>SSS<br>M                           | 14 12 49<br>15 35<br>15 46<br>16 23<br>16 33<br>17 46                                     | 1770     | Slight. Initial ground movement towards North and West | 26          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i                                                                                                                       | 21 08 24<br>08 48                   |                                                 | Slight, near                          |                      |
|             | SHILLONG                                                                                                                                                                                                      | Z<br>E   | eP<br>iP<br>i<br>e<br>iS<br>Lq<br>SS<br>SSS<br>Lr/PcP<br>M | 14 13 38<br>13 39<br>13 42<br>14 09<br>16 59<br>17 05<br>17 27<br>17 38<br>18 00<br>19 28 | 2020     | Moderate. Initial ground movement towards East.        | 26          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | iP<br>E                                                                                                                 | 23 00 46<br>01 05<br>01 09<br>02 13 |                                                 | Slight. Rarefaction. Phases not clear |                      |
|             | KODAIKANAL                                                                                                                                                                                                    | E        | S                                                          | 14 18 14                                                                                  |          | Slight. Phases not clear.                              | CHATRA      | Z                                                                                                                                                                                                                                                         | eP<br>iS                                                                                          | 23 01 32<br>03 05                                                                                                       | 900                                 | Feeble                                          |                                       |                      |
|             | MADRAS                                                                                                                                                                                                        | E        | eP<br>PcP<br>iS<br>Lq<br>SS<br>SSS<br>Lr                   | 14 15 13<br>18 31<br>19 41<br>20 39<br>20 58<br>21 13<br>21 52                            | 2960     | Moderate                                               | 27          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | iP                                                                                                                      | 07 01 06                            |                                                 | Slight. Compression.                  |                      |
|             | COLOMBO                                                                                                                                                                                                       | E        | e<br>e<br>e<br>e                                           | 14 20 31<br>22 36<br>25 23<br>26 51                                                       |          |                                                        | 27          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | iP                                                                                                                      | 09 01 23                            |                                                 | Slight, near.                         |                      |
| 23          | DEHRA DUN                                                                                                                                                                                                     | N,E      | e                                                          | 17 49 37                                                                                  |          | Tremor                                                 | CHATRA      | Z                                                                                                                                                                                                                                                         | eP<br>iS                                                                                          | 09 02 17<br>03 48                                                                                                       | 880                                 | Feeble                                          |                                       |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 27          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 10 22 08                            |                                                 | Tremor                                |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 27          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 16 49 27                            |                                                 | Tremor                                |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 27          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e                                                                                                                       | 17 01 02                            |                                                 | Tremor                                |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 28          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | i                                                                                                                       | 06 41 15                            |                                                 | Slight, local. Compression            |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 28          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | Pg<br>Sg                                                                                                                | 06 51 14<br>51 24                   | 90                                              | Slight, near                          |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 28          | SHILLONG                                                                                                                                                                                                                                                  | Z                                                                                                 | iP                                                                                                                      | 13 48 57                            |                                                 | Slight. Rarefaction                   |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 28          | DEHRA DUN                                                                                                                                                                                                                                                 | N,E                                                                                               | e<br>i                                                                                                                  | 19 46 48<br>47 26                   |                                                 | Feeble. Phases not clear              |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | 28          | Epc: 14°N, 91°W. Near Coast of Guatemala. - h = 60 KmCa.<br>- H = 20h 13m 30s (U.S.C.G.S)<br>13.8°N, 91.8°W. - h = 70 Km to 100 Km<br>- H = 20h 13m 00s (Takubaya)<br>Magnitude = 7.7M (Dabilt), 6.7 (Kiruna),<br>6.8 (Takubaya), 6M (Pasadena, Berkeley) |                                                                                                   |                                                                                                                         |                                     |                                                 |                                       |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | SHILLONG    | Z                                                                                                                                                                                                                                                         | PKP<br>PcP<br>PP<br>PKS<br>PPP<br>SKKS<br>PS<br>PPS<br>SKKS <sub>1</sub><br>SSP<br>SSS<br>Lr<br>M | 20 32 51<br>32 54<br>35 59<br>38 37<br>38 56<br>42 46<br>45 50<br>47 54<br>48 39<br>54 46<br>59 28<br>31 18 35<br>30 28 | 15770                               | Moderate. Initial ground movement towards North |                                       |                      |
|             |                                                                                                                                                                                                               |          |                                                            |                                                                                           |          |                                                        | DEHRA DUN   | N,E<br>N                                                                                                                                                                                                                                                  | ePKP<br>i<br>e<br>e<br>e<br>e                                                                     | 20 32 51<br>36 25<br>36 32<br>36 49<br>37 12<br>39 02                                                                   |                                     | Per. = 23 secs<br>$\mu = 250$<br>Slight         |                                       |                      |

| DATE        | STATION                                                                                                                                                                                                                | COMPT | PHASE              | G. M. T.<br>h. m. s. | $\Delta$<br>km | REMARKS                                                                                   | DATE        | STATION   | COMPT | PHASE | G. M. T.<br>h. m. s. | $\Delta$<br>km | REMARKS                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|----------------------|----------------|-------------------------------------------------------------------------------------------|-------------|-----------|-------|-------|----------------------|----------------|--------------------------------------------------|
| AUGUST 1955 |                                                                                                                                                                                                                        |       |                    |                      |                |                                                                                           | AUGUST 1955 |           |       |       |                      |                |                                                  |
| 28          | NEW DELHI                                                                                                                                                                                                              | N     | ePKP               | 20 32 52             |                |                                                                                           | 29          | SHILLONG  | Z     | iPg   | 16 05 18             | 120            | Slight. Felt.                                    |
| Contd.      |                                                                                                                                                                                                                        |       | i                  | 36 28                |                | Moderate, distant.                                                                        | Contd.      |           |       | Sg    | 05 32                |                | Rarefaction.                                     |
|             |                                                                                                                                                                                                                        |       | e                  | 42 21                |                |                                                                                           |             |           |       |       |                      |                | Initial ground movement towards South & West.    |
|             | BOKARO                                                                                                                                                                                                                 | N     | ePKP               | 20 33 02             | 15670          | Slight                                                                                    |             | CHATRA    | Z     | iP    | 16 05 52             | 410            | Slight                                           |
|             |                                                                                                                                                                                                                        |       | PPP                | 36 11                |                |                                                                                           |             |           |       | iS    | 06 37                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | PKS <sub>1</sub>   | 36 43                |                |                                                                                           |             | BOKARO    | E     | eP    | 16 06 15             | 530            | Slight                                           |
|             |                                                                                                                                                                                                                        |       | SKS <sub>1</sub>   | 39 39                |                |                                                                                           |             |           |       | eS    | 07 11                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | SKKS <sub>1</sub>  | 40 22                |                |                                                                                           |             | NEW DELHI | E     | eP    | 16 07 50             | 1310           | Slight                                           |
|             |                                                                                                                                                                                                                        |       | SKKKS <sub>1</sub> | 40 33                |                |                                                                                           |             |           | N,E   | PP    | 08 01                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | PS                 | 43 00                |                |                                                                                           |             |           | E     | PPP   | 08 10                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | PPS                | 44 02                |                |                                                                                           |             |           | N,E   | iS    | 10 04                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | SS                 | 48 47                |                |                                                                                           |             |           | N,E   | SS    | 10 17                |                |                                                  |
|             | POONA                                                                                                                                                                                                                  | Z     | ePKP               | 20 33 06             | 16000          | Slight, distant Phases not clear.                                                         |             |           | E     | SSS   | 10 28                |                |                                                  |
|             |                                                                                                                                                                                                                        |       |                    |                      |                |                                                                                           |             |           | E     | M     | 11 26                |                |                                                  |
|             | COLOMBO                                                                                                                                                                                                                | E     | ePKP               | 20 33 15             |                |                                                                                           |             | POONA     | Z     | eP    | 16 08 52             | 1700           | Feeble. Phases mixed up with microseisms         |
|             |                                                                                                                                                                                                                        |       | e                  | 46 18                |                |                                                                                           |             |           |       | e     | 09 05                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | e                  | 21 40 20             |                | Amp. $\approx$ 1.0 mm                                                                     |             |           |       | eS    | 11 44                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | e                  | 48 30                |                |                                                                                           |             |           |       | e     | 12 23                |                |                                                  |
|             | HYDERABAD                                                                                                                                                                                                              | E     | ePKP               | 20 33 17             |                | Moderate. Initial ground movement towards West. Per. $\approx$ 24 secs $\mu$ $\approx$ 16 |             | BOMBAY    | N     | e     | 16 12 50             |                | Feeble                                           |
|             |                                                                                                                                                                                                                        |       | e                  | 45 17                |                |                                                                                           |             |           |       | M     | 16 24 11             |                | Slight. Per. $\approx$ 15 secs $\mu$ $\approx$ 4 |
|             |                                                                                                                                                                                                                        |       | e                  | 21 28 49             |                |                                                                                           |             | HYDERABAD | E     | M     | 16 24 11             |                |                                                  |
|             | MADRAS                                                                                                                                                                                                                 | E     | ePKP               | 20 33 43             |                | Moderate                                                                                  |             |           |       |       |                      |                |                                                  |
| 28          | NEW DELHI                                                                                                                                                                                                              | N,E   | eP                 | 23 54 42             | 1040           | Slight                                                                                    | 29          | CHATRA    | Z     | ePg   | 16 32 55             | 10             | Feeble                                           |
|             |                                                                                                                                                                                                                        | E     | P*                 | 55 02                |                |                                                                                           |             |           |       | iSg   | 32 57                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | Pg                 | 55 28                |                |                                                                                           | 29          | CHATRA    | Z     | iPg   | 19 21 59             | 10             | Feeble                                           |
|             |                                                                                                                                                                                                                        | N,E   | eS                 | 56 29                |                |                                                                                           |             |           |       | iSg   | 22 01                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | SS                 | 56 42                |                |                                                                                           | 30          | DEHRA DUN | N,E   | e     | 07 16 20             |                | Tremor                                           |
|             |                                                                                                                                                                                                                        | E     | Lr                 | 56 49                |                |                                                                                           | 30          | SHILLONG  | Z     | iP    | 17 42 34             |                | Slight. Compression. Other phases not clear.     |
|             |                                                                                                                                                                                                                        |       | SSS                | 56 55                |                |                                                                                           |             |           |       | i     | 47 18                |                |                                                  |
| 29          | DEHRA DUN                                                                                                                                                                                                              | N,E   | e                  | 00 54 36             |                | Feeble. Phases not clear.                                                                 |             | DEHRA DUN | N,E   | e     | 17 44 00             |                | Feeble. Phases not clear.                        |
|             |                                                                                                                                                                                                                        |       | i                  | 56 14                |                |                                                                                           |             |           |       | e     | 50 44                |                |                                                  |
| 29          | Epc: 51°N, 178°W. H. $\approx$ 15h 33m 56s. (U.S.C.G.S) Magnitude $\approx$ 5M (Uppsala).                                                                                                                              |       |                    |                      |                |                                                                                           |             | POONA     | Z     | eP    | 17 44 48             |                | Very feeble. Phases not clear.                   |
|             | SHILLONG                                                                                                                                                                                                               | Z     | iP                 | 15 45 18             | 7910           | Slight.                                                                                   |             |           | Z,N   | e     | 52 22                |                |                                                  |
|             |                                                                                                                                                                                                                        | N     | iP                 | 45 19                |                | Compression.                                                                              |             | BOMBAY    | N     | (S?)i | 17 52 34             |                | Probably deep focus.                             |
|             |                                                                                                                                                                                                                        |       | PP                 | 46 57                |                | Initial ground movement South                                                             | 30          | DEHRA DUN | N,E   | e     | 22 33 15             |                | Tremor                                           |
|             |                                                                                                                                                                                                                        |       | iS                 | 54 35                |                |                                                                                           | 31          | CHATRA    | Z     | eP    | 03 01 28             | 410            | Feeble                                           |
|             |                                                                                                                                                                                                                        |       | PS                 | 54 46                |                |                                                                                           |             |           |       | iS    | 09 36 44             | 430            | Feeble                                           |
|             |                                                                                                                                                                                                                        |       | SS                 | 57 57                |                |                                                                                           |             |           |       |       | 37 30                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | M                  | 16 12 04             |                |                                                                                           | 31          | CHATRA    | Z     | iP    | 09 37 06             | 430            | Feeble                                           |
|             | BOKARO                                                                                                                                                                                                                 | N     | eP                 | 15 45 53             |                | Slight                                                                                    |             |           |       | iS    | 37 52                |                |                                                  |
|             |                                                                                                                                                                                                                        |       | i                  | 55 28                |                |                                                                                           |             |           |       |       |                      |                |                                                  |
|             | POONA                                                                                                                                                                                                                  | Z     | iP                 | 15 46 46             |                | Tremor                                                                                    |             |           |       |       |                      |                |                                                  |
| 29          | Epc: 25.2°N, 90.8°E. Assam-East Pakistan Border. H. $\approx$ 16h 04m 57s (Shillong) H. $\approx$ 16h 04m 54s (U.S.C.G.S) Magnitude $\approx$ 4M (Shillong). Felt at Shillong, Dhubri, Goalpara, Mymensing and Sylhet. |       |                    |                      |                |                                                                                           |             |           |       |       |                      |                |                                                  |
|             | DEHRA DUN                                                                                                                                                                                                              | N,E   | e                  | 16 04 55             |                | Slight. Phases not clear                                                                  |             |           |       |       |                      |                |                                                  |
|             |                                                                                                                                                                                                                        |       | i                  | 07 05                |                |                                                                                           |             |           |       |       |                      |                |                                                  |

### Earthquake Reports

(See also L. Reports.)

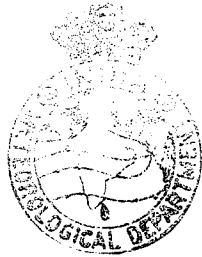
The following table contains a list of earthquakes that were reported by Voluntary Observers from various stations during the month of August 1955.

| Place at which felt | Date in G. M. T. | Time in G. M. T. | Duration in secs. | Intensity in R.F. scale | No. of shocks | Remarks |
|---------------------|------------------|------------------|-------------------|-------------------------|---------------|---------|
| GANGTOK             | 02               | 18 30            | 1                 | V                       | 1             |         |
| GANGTOK             | 08               | 17 30            | 1                 | V                       | 1             |         |
| UPPER SHILLONG      | 15               | 16 45            | 35                | V                       | 1             |         |
| TOMOLA (DORRANG)    | 19               | 05 15            | 10                | V                       | 1             |         |
| UPPER SHILLONG      | 29               | 16 05            | 30                | III                     | 2             |         |



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 1964

Instruments and their constants

| STATION    | INSTRUMENTS                      | COMPONENT | PERIOD<br>IN<br>SECOND | STATIC<br>MAGNIFICA-<br>TION | DAMPING RATIO | PAPER SPEED<br>IN<br>mm/min. |
|------------|----------------------------------|-----------|------------------------|------------------------------|---------------|------------------------------|
| BOKARO     | Wood-Anderson                    | E         | 0.8                    | 960                          | 0.8           |                              |
|            | Wood-Anderson                    | N         | 0.8                    | 1000                         | 0.8           |                              |
|            | Milne-Shaw                       | N         | 12.0                   | 250                          | 20:1          | 16.0                         |
|            | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 16.0                         |
| BOMBAY     | Milne-Shaw                       | N         | 12.0                   | 350                          | 30:1          | 16.0                         |
|            | Milne-Shaw                       | E         | 12.0                   | 350                          | 3:1           | 8.0                          |
|            | Sprengnather<br>Microseismograph | E         | 7.0                    |                              |               | 30.0                         |
|            |                                  |           |                        |                              |               |                              |
| CHAITRA    | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 16                           |
|            | Benioff-Vertical                 | Z         | To=0.72<br>Tg=0.45     |                              | Critical      | 60                           |
|            | Wood-Anderson                    | E         | 1.0                    | 1000                         | 30:1          | 60                           |
| COLOMBO    | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 8.0                          |
| DEHRA-DUN  | Wood-Anderson                    | N         | 0.8                    | 800                          | 60:1          | 60                           |
|            | Wood-Anderson                    | E         | 0.8                    | 950                          | 60:1          | 60                           |
|            | Milne-Shaw                       | N         | 12.0                   | 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     | Sprengnather                     | E         | To=Tg=7.3              |                              |               | 30                           |
| NEW DELHI  | Milne-Shaw                       | N         | 12                     | 320                          | 20:1          | 8                            |
|            | Wood-Anderson                    | N         | 4                      | 900                          | 20:1          | 16                           |
|            | Wood-Anderson                    | E         | 2                      | 1770                         | 30:1          | 60                           |
|            | Omari-Ewing                      | E         | 30                     | 30                           | 1             | 12                           |
| POONA      | Sprengnather<br>Vertical         | Z         | To=Tg=1.5              |                              |               | 30                           |
|            | Milne-Shaw                       | N         | 12.0                   | 250                          | 20:1          | 8                            |
| SHILLONG   | Wood-Anderson                    | E         | To=1.0                 | 1100                         | 20:1          | 16                           |
|            | Benioff-Vertical                 | Z         | Tg=0.18                |                              |               | 60                           |
|            | Sprengnather                     | E         | To=Tg=7.6              |                              |               | 30                           |
|            | Milne-Shaw                       | N         | 12                     | 250                          | 20:1          | 8                            |
|            | Wood-Anderson                    | E         | 0.8                    | 1000                         | Critical      | 30                           |
|            | Wood-Anderson                    | N         | 0.8                    | 1000                         | Critical      | 30                           |



| DATE           | STATION    | COMPT      | PHASE                                            | G. h. | M. m. | T. s.                                                                | Δ km | REMARKS                                  |
|----------------|------------|------------|--------------------------------------------------|-------|-------|----------------------------------------------------------------------|------|------------------------------------------|
| September 1955 |            |            |                                                  |       |       |                                                                      |      |                                          |
| 01             | CHATRA     | E          | iP<br>iS                                         | 08    | 28    | 06<br>29 29                                                          | 800  | Feeble                                   |
| 01             | DEHRA DUN  | N,E        | e                                                | 12    | 32    | 45                                                                   |      | Tremor                                   |
| 01             | SHILLONG   | E          | iP<br>iS                                         | 13    | 27    | 03<br>27 34                                                          | 280  | Slight                                   |
| 01             | CHATRA     | Z          | iP<br>iS                                         | 16    | 00    | 16<br>00 44                                                          | 240  | Feeble                                   |
| 01             | CHATRA     | Z          | iP<br>iS                                         | 16    | 06    | 17<br>06 30                                                          | 150  | Feeble                                   |
| 01             | CHATRA     | Z          | eP<br>iS                                         | 16    | 11    | 13<br>11 33                                                          | 160  | Feeble                                   |
| 02             | SHILLONG   | Z          | iP                                               | 07    | 58    | 08                                                                   |      | Slight, compression                      |
| 02             | CHATRA     | Z          | iPg                                              | 18    | 36    | 42                                                                   | 100  | Slight                                   |
| 02             | SHILLONG   | Z          | i                                                | 19    | 52    | 30                                                                   |      | Slight, compression                      |
| 02             | SHILLONG   | Z          | iP                                               | 20    | 53    | 17                                                                   |      | Slight, compression                      |
| 02             | SHILLONG   | Z          | iP                                               | 21    | 21    | 11                                                                   |      | Slight, compression                      |
| 02             | DEHRA DUN  | N,E        | e                                                | 21    | 22    | 44                                                                   |      | Tremor                                   |
| 02             | SHILLONG   | Z          | e                                                | 23    | 21    | 48                                                                   |      | Tremor                                   |
| 03             | CHATRA     | Z          | iP<br>iS                                         | 05    | 05    | 24<br>06 42                                                          | 750  | Slight                                   |
| 03             | SHILLONG   | Z          | iPg<br>P<br>eSg<br>eS<br>SSS                     | 09    | 02    | 54<br>02 57<br>03 05<br>03 10<br>03 27                               | 90   | Slight                                   |
| 03             | CHATRA     | Z          | eP<br>iS                                         | 09    | 20    | 22<br>21 10                                                          | 450  | Feeble                                   |
|                | DEHRA DUN  | N,E<br>N   | eP<br>PPP<br>iS<br>Lq<br>SS<br>SSS<br>Lr<br>M    | 12    | 55    | 26<br>55 53<br>59 09<br>59 21<br>59 40<br>59 55<br>13 00 11<br>01 44 | 2250 | Slight                                   |
| 03             | SHILLONG   | Z,N,E<br>N | iP<br>PP<br>PPP<br>iS/Lq<br>SS<br>SSS<br>Lr<br>M | 12    | 55    | 39<br>56 08<br>56 27<br>59 22<br>59 37<br>13 00 03<br>00 25<br>01 53 | 2250 | Slight, Compression                      |
|                | POONA      | Z          | eP                                               | 12    | 55    | 52                                                                   |      | Slight, distant shock. Phases not clear. |
|                | HYDERABAD  | E          | e<br>M                                           | 12    | 56    | 01<br>13 50 18                                                       |      | Per. = 18 secs<br>μ = 7                  |
|                | COLOMBO    | E          | e                                                | 12    | 56    | 06<br>13 09 11<br>14 02 --<br>14 10 01                               |      |                                          |
|                | MADRAS     | E          | e                                                | 12    | 56    | 29                                                                   |      | Tremor                                   |
|                | KODAIKANAL | E          | e                                                | 12    | 58    | 08                                                                   |      | Slight                                   |
|                | BOKARO     | N          | i<br>i                                           | 12    | 59    | 28<br>59 43                                                          |      | Slight                                   |

| DATE           | STATION                                                                                                                                | COMPT      | PHASE                                                            | G. h. | M. m. | T. s.                                                                                        | Δ km | REMARKS                                    |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------|-------|-------|----------------------------------------------------------------------------------------------|------|--------------------------------------------|
| September 1955 |                                                                                                                                        |            |                                                                  |       |       |                                                                                              |      |                                            |
| 03             | CHATRA                                                                                                                                 | Z          | iP<br>iS                                                         | 14    | 09    | 38<br>09 57                                                                                  | 150  | Feeble                                     |
| 03             | DEHRA DUN                                                                                                                              | N,E        | e                                                                | 14    | 12    | 20                                                                                           |      | Tremor                                     |
| 03             | Epc: Celebes Islands 1°N, 120°E. - H = 16h 23m 22s (Shillong). 1°N, 123°E. - H = 16h 22m 52s (U.S.C.G.S). Magnitude = 6¼-6¾ (Uppsala). |            |                                                                  |       |       |                                                                                              |      |                                            |
|                | SHILLONG                                                                                                                               | Z,N,E<br>N | iP<br>PP<br>PPP<br>iS<br>SS/Lq<br>SSS<br>Lr<br>M                 | 16    | 30    | 22<br>31 36<br>31 58<br>35 57<br>38 02<br>38 43<br>39 50<br>42 54                            | 4310 | Rarefaction                                |
|                | COLOMBO                                                                                                                                | E          | P<br>iS<br>L<br>M                                                | 16    | 30    | 51<br>36 46<br>46 31<br>52 36                                                                | 4250 | Amp. = 0.5 mm                              |
|                | BOKARO                                                                                                                                 | N,E        | eP<br>PP<br>PPP<br>iS<br>PS<br>PPS<br>SS<br>Lq<br>SSS<br>Lr<br>M | 16    | 30    | 53<br>32 25<br>32 51<br>36 53<br>37 02<br>37 17<br>39 40<br>40 14<br>40 33<br>41 55<br>46 29 | 4330 | Ground movement North and West             |
|                | MADRAS                                                                                                                                 | E          | iP<br>PP<br>PcP<br>PPP<br>ScP<br>iS<br>SSS<br>ScS<br>M           | 16    | 31    | 01<br>32 36<br>32 56<br>33 09<br>36 33<br>37 02<br>40 33<br>40 41<br>45 32                   | 4360 | Per. = 15 sec <sup>2</sup><br>μ = 7.14     |
|                | HYDERABAD                                                                                                                              | E          | iP<br>PP<br>iS<br>SS<br>L<br>M                                   | 16    | 31    | 20<br>32 22<br>37 40<br>41 20<br>45 28<br>48 22                                              | 4660 | Ground movement East.                      |
|                | POONA                                                                                                                                  | Z<br>E     | iP<br>i<br>PcS<br>iS<br>PPS<br>i<br>ScS<br>SSS<br>Lr             | 16    | 31    | 57<br>32 59<br>36 54<br>38 47<br>38 56<br>40 41<br>41 14<br>43 22<br>45 25                   | 5190 | Rarefaction. Ground movement towards East. |
|                | DEHRA DUN                                                                                                                              | N,E        | e<br>i                                                           | 16    | 32    | 04<br>32 46                                                                                  |      | Slight. Phases not clear                   |
|                | KODAIKANAL                                                                                                                             | E          | eP<br>iS<br>SS<br>SSS<br>Lq<br>M                                 | 16    | 32    | 14<br>37 28<br>38 11<br>39 41<br>40 46<br>17 34 08                                           | 3590 | Per. = 15 secs<br>μ = 14.4                 |
| 03             | SHILLONG                                                                                                                               | Z          | eP                                                               | 19    | 31    | 15                                                                                           |      | Slight, near. Compression.                 |
| 03             | CHATRA                                                                                                                                 | Z          | eP<br>iS                                                         | 19    | 32    | 32<br>33 04                                                                                  | 250  | Slight                                     |
| 03             | DEHRA DUN                                                                                                                              | N,E        | e<br>i                                                           | 22    | 53    | 46<br>55 34                                                                                  |      | Feeble. Phases not clear                   |
| 04             | POONA                                                                                                                                  | Z          | iP                                                               | 11    | 49    | 14                                                                                           |      | Very feeble. Phases not clear.             |

| DATE           | STATION                                                                                                                                                          | COMPT                | PHASE                                                             | G. M. T.                                                                                           | $\Delta$ | REMARKS                             | DATE                                                                                                  | STATION   | COMPT                                                             | PHASE                                                                                        | G. M. T.                            | $\Delta$                               | REMARKS       |                             |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------|-------------------------------------|-------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|---------------|-----------------------------|
|                |                                                                                                                                                                  |                      |                                                                   | h. m. s.                                                                                           | km       |                                     |                                                                                                       |           |                                                                   |                                                                                              | h. m. s.                            | km                                     |               |                             |
| September 1955 |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          |                                     | September 1955                                                                                        |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 04             | DEHRA DUN                                                                                                                                                        | N,E                  | e                                                                 | 11 49 23                                                                                           |          | Feeble. Phases not clear            | 07 NEW DELHI Contd.                                                                                   | E<br>N    | eP<br>i<br>eS<br>Lq<br>iSS<br>Lr<br>M                             | 03 25 36<br>25 47<br>30 40<br>31 55<br>32 22<br>33 12<br>35 22                               | 3430                                | Slight                                 |               |                             |
| 04             | SHILLONG                                                                                                                                                         | Z                    | e                                                                 | 11 49 42                                                                                           |          | Tremor                              |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 04             | SHILLONG                                                                                                                                                         | Z                    | e                                                                 | 17 01 33                                                                                           |          | Slight, near                        |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 04             | SHILLONG                                                                                                                                                         | Z                    | eP                                                                | 19 17 58                                                                                           |          | Compression. Phases not clear       | BOKARO                                                                                                | N,E       | eP<br>e<br>iS<br>Lq<br>SSS<br>Lr<br>M                             | 03 25 45<br>26 38<br>31 07<br>32 58<br>33 28<br>34 51<br>36 54                               | 3700                                | Slight. Ground movement South and West |               |                             |
| 04             | DEHRA DUN                                                                                                                                                        | N,E                  | e                                                                 | 19 18 57                                                                                           |          | Feeble, phases not clear            |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 04             | SHILLONG                                                                                                                                                         | Z                    | eP                                                                | 22 22 30                                                                                           |          | Rarefaction                         |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 05             | CHATRA                                                                                                                                                           | Z                    | iP<br>iS                                                          | 00 08 05<br>08.34                                                                                  | 250      | Slight                              | DEHRA DUN                                                                                             | N,E<br>N  | eP<br>PP<br>PPP<br>iS<br>Lq/SS<br>SSS<br>Lr<br>M                  | 03 26 03<br>27 15<br>27 37<br>31 32<br>33 36<br>34 19<br>35 28<br>38 33                      | 3840                                | Moderate                               |               |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | eP                                                                | 00 08 53                                                                                           |          | Rarefaction                         |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 05             | DEHRA DUN                                                                                                                                                        | N,E                  | e<br>i                                                            | 00 09 23<br>10 49                                                                                  |          | Feeble. Phases not clear            |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | e                                                                 | 04 25 33                                                                                           |          | Slight. Compression                 | SHILLONG                                                                                              | Z         | P<br>PP<br>S                                                      | 03 26 25<br>27 51<br>32 07                                                                   | 4040                                | Moderate. Rarefaction.                 |               |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | e                                                                 | 11 49 02                                                                                           |          | Rarefaction                         | 07 SHILLONG                                                                                           | Z         | e                                                                 | 06 03 18                                                                                     |                                     |                                        | Local         |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | e                                                                 | 16 44 57                                                                                           |          | Compression                         | 07 DEHRA DUN                                                                                          | N,E       | e                                                                 | 07 56 29                                                                                     |                                     |                                        | Tremor        |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | i                                                                 | 17 20 34                                                                                           |          | Rarefaction                         | 07 CHATRA                                                                                             | Z         | ePg<br>eSg                                                        | 08 15 05<br>15 17                                                                            | 90                                  | Feeble                                 |               |                             |
| 05             | CHATRA                                                                                                                                                           | Z                    | eP<br>iS                                                          | 20 05 07<br>05.30                                                                                  | 190      | Feeble.                             | 07 CHATRA                                                                                             | Z         | iPg<br>iSg                                                        | 08 37 09<br>37 22                                                                            | 100                                 | Feeble                                 |               |                             |
| 05             | SHILLONG                                                                                                                                                         | Z                    | i                                                                 | 20 06 09                                                                                           |          | Compression                         | 07 CHATRA                                                                                             | Z         | iS<br>iP                                                          | 10 17 45<br>18 14                                                                            | 250                                 | Feeble                                 |               |                             |
| 06             | DEHRA DUN                                                                                                                                                        | N,E                  | e                                                                 | 03 06 54                                                                                           |          | Feeble. Phases not clear            | 07 SHILLONG                                                                                           | Z         | e                                                                 | 10 18 32                                                                                     |                                     |                                        | Local         |                             |
| 06             | CHATRA                                                                                                                                                           | Z                    | eP<br>iS                                                          | 11 01 41<br>02.27                                                                                  | 430      | Feeble                              | 07 CHATRA                                                                                             | Z         | iP<br>iS                                                          | 14 25 44<br>26 02                                                                            | 140                                 | Feeble                                 |               |                             |
| 07             | COLOMBO                                                                                                                                                          | E                    | P                                                                 | 03 22 48                                                                                           |          |                                     | 07 DEHRA DUN                                                                                          | N,E       | e                                                                 | 15 21 32                                                                                     |                                     |                                        | Tremor        |                             |
| 07             | Epc: 3°S, 67°E. Chagos Islands Region<br>- H = 03h 19m 16s. (Shillong)<br>2°S, 68°E. - H = 03h 19m 21s. (U.S.C.G.S)<br>1½°S, 68°E. - H = 03h 19m. 23s. (B.C.I.S) |                      |                                                                   |                                                                                                    |          |                                     |                                                                                                       | 07 MADRAS | E                                                                 | e                                                                                            | 17 51 42                            |                                        |               | Tremor                      |
|                | KODAIKANAL                                                                                                                                                       | E                    | iP<br>PP<br>PPP<br>iS<br>Lq<br>SS<br>SSS<br>Lr<br>M               | 03 22 57<br>23 20<br>23 36<br>26 48<br>27 11<br>28 19<br>29 10<br>30 03                            | 2350     | Ground movement East                | 07 SHILLONG                                                                                           | Z         | e                                                                 | 18 12 26                                                                                     |                                     |                                        |               | Local                       |
|                |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          | Per. = 17 secs<br>$\mu = 47$        | 07 DEHRA DUN                                                                                          | N,E       | e<br>i                                                            | 19 16 50<br>17 49                                                                            |                                     |                                        |               | Feeble. Phases not clear    |
|                | MADRAS                                                                                                                                                           | E                    | iP<br>PP<br>PPP<br>iS<br>Lq<br>SS<br>SSS<br>Lr<br>M<br>ScP<br>ScS | 03 23 47<br>24 12<br>24 24<br>27 42<br>28 02<br>28 20<br>28 34<br>29 10<br>31 07<br>31 21<br>34 59 | 2400     | Moderate shock Ground movement East | 08 COLOMBO                                                                                            | E         | P<br>S<br>L<br>M                                                  | 02 28 57<br>35 58<br>40 31<br>45 30                                                          | 5390                                |                                        | Amp. = 1.1 mm |                             |
|                |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          |                                     | KODAIKANAL                                                                                            | E         | e                                                                 | 02 29 05                                                                                     |                                     |                                        |               | Slight                      |
|                |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          |                                     | HYDERABAD                                                                                             | E         | e<br>L<br>M                                                       | 02 37 26<br>48 21<br>58 03                                                                   |                                     |                                        |               | Per. = 16 secs<br>$\mu = 6$ |
|                | POONA                                                                                                                                                            | Z<br>N               | iP<br>PP<br>PPP<br>eS<br>Lq<br>SS<br>SSS<br>Lr<br>M               | 03 24 14<br>24 33<br>24 49<br>28 13<br>28 34<br>28 57<br>29 18<br>29 48<br>03 31 40                | 2450     | Moderate. Ground movement North     | 08 Epc: Solomon Islands. 7°S, 155½°E<br>- H = 03h 27m 14s. (U.S.C.G.S)<br>Magnitude = 6½. (Pasadena). | SHILLONG  | Z<br>E                                                            | iP<br>i<br>PcP<br>eS                                                                         | 03 38 29<br>38 36<br>38 51<br>47 38 |                                        |               | Moderate. Compression       |
|                |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          | Per. = 19.5 secs<br>$\mu = 38.3$    | BOKARO                                                                                                | N,E       | eP<br>PcP<br>iS<br>SKS<br>i<br>ScS<br>PS<br>PPS<br>SS<br>SSS<br>M | 03 39 06<br>39 21<br>48 34<br>48 57<br>49 06<br>49 15<br>49 41<br>53 28<br>56 25<br>04 07 47 | 8130                                | Slight                                 |               |                             |
|                | BOMBAY                                                                                                                                                           | N,E<br>N<br>N,E<br>N | iP<br>PP<br>iS<br>Lq<br>SSS                                       | 03 24 16<br>24 41<br>28 15<br>28 54<br>29 28                                                       | 2440     | Slight. 'M' not well developed      | COLOMBO                                                                                               | E         | P<br>S<br>L<br>M                                                  | 03 39 21<br>48 53<br>04 05<br>12 06                                                          | 8220                                |                                        | Amp. = 0.4 mm |                             |
|                | HYDERABAD                                                                                                                                                        | E                    | iP<br>PP<br>iS<br>SS<br>Lr<br>M                                   | 03 24 17<br>24 43<br>28 23<br>29 12<br>29 48<br>31 01                                              | 2540     | Moderate. Ground movement East.     |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |
|                |                                                                                                                                                                  |                      |                                                                   |                                                                                                    |          | Per. = 16 secs<br>$\mu = 28$        |                                                                                                       |           |                                                                   |                                                                                              |                                     |                                        |               |                             |







DATE STATION COMPT PHASE G. M. T.  $\Delta$  REMARKS  
h. m. s. km

| DATE           | STATION   | COMPT | PHASE | G. M. T. | $\Delta$ | REMARKS                  |
|----------------|-----------|-------|-------|----------|----------|--------------------------|
| September 1955 |           |       |       | h. m. s. | km       |                          |
| 17             | NEW-DELHI | N     | eP    | 05 48 17 | 820      | Slight                   |
|                |           |       | i     | 48 44    |          |                          |
|                |           |       | Lq    | 49 31    |          |                          |
|                |           |       | eS    | 49 42    |          |                          |
|                |           |       | SSS   | 50 02    |          |                          |
|                | N,E       |       | S*    | 50 05    |          |                          |
|                |           |       | Sg    | 50 25    |          |                          |
| 17             | DEHRA-DUN | N,E   | e     | 05 48 32 |          | Slight. Phases not clear |
|                | N         |       | i     | 50 26    |          |                          |
|                |           |       | i     | 50 37    |          |                          |
|                |           |       | i     | 50 49    |          |                          |
| 17             | SHILLONG  | Z     | e     | 05 54 35 |          | Slight                   |
| 17             | SHILLONG  | Z     | e     | 06 48 54 |          | Slight                   |
| 17             | SHILLONG  | Z     | i     | 07 38 35 |          | Slight. Rarefaction      |
| 17             | SHILLONG  | Z     | e     | 12 08 09 |          | Slight                   |
| 17             | DEHRA-DUN | N,E   | e     | 13 48 11 |          | Tremor                   |
| 17             | SHILLONG  | Z     | e     | 14 50 51 |          | Slight, near             |
|                |           |       | e     | 51 19    |          |                          |
| 17             | SHILLONG  | Z     | i     | 15 02 22 |          | Slight. Compression      |
| 17             | SHILLONG  | Z     | i     | 18 40 15 |          | Slight. Compression      |
| 17             | SHILLONG  | Z     | i     | 18 29 18 |          | Slight. Rarefaction      |
| 17             | SHILLONG  | Z     | e     | 21 21 52 |          | Slight. Local            |
|                |           |       | i     | 22 01    |          |                          |
| 17             | SHILLONG  | Z     | e     | 23 46 38 |          | Slight                   |
| 18             | SHILLONG  | Z     | i     | 01 18 05 |          | Slight, near.            |
|                | E         |       | e     | 18 17    |          |                          |
| 18             | SHILLONG  | Z     | e     | 01 28 25 |          | Slight                   |
| 18             | SHILLONG  | Z     | i     | 06 34 58 |          | Slight. Local            |
|                |           |       | i     | 35 31    |          |                          |
| 18             | SHILLONG  | Z     | i     | 06 49 40 |          | Slight. Compression      |
| 18             | SHILLONG  | Z     | e     | 09 22 36 |          | Slight                   |
| 18             | SHILLONG  | Z     | i     | 11 38 34 |          | Slight. Rarefaction      |
| 18             | DEHRA-DUN | N,E   | e     | 11 45 22 |          | Tremor                   |
| 18             | SHILLONG  | Z     | e     | 16 09 41 |          | Slight. Local            |
|                |           |       | i     | 09 55    |          |                          |
| 19             | SHILLONG  | Z     | iP    | 04 17 42 |          | Slight. Compression      |
|                | N         |       | eL    | 30 --    |          |                          |
| 19             | CHATRA    | Z     | ePg   | 06 27 25 | 100      | Feeble                   |
|                |           |       | iSg   | 27 37    |          |                          |
| 19             | SHILLONG  | Z     | iP    | 10 41 38 | 230      | Slight                   |
|                |           |       | iSg   | 42 10    |          |                          |
| 19             | SHILLONG  | Z     | ePg   | 12 22 49 | 120      | Slight                   |
|                |           |       | iSg   | 23 03    |          |                          |
| 19             | SHILLONG  | Z     | iP    | 17 05 08 | 200      | Slight                   |
|                |           |       | iSg   | 05 36    |          |                          |
| 19             | SHILLONG  | Z     | iP    | 17 50 44 |          | Slight. Compression      |
| 19             | CHATRA    | Z     | iP    | 19 36 59 | 150      | Feeble                   |
|                |           |       | iS    | 37 18    |          |                          |
| 19             | SHILLONG  | Z     | eP    | 19 37 30 | 310      | Slight                   |
|                |           |       | iSg   | 38 16    |          |                          |
| 19             | SHILLONG  | Z     | e     | 22 40 58 |          | Slight                   |
| 19             | SHILLONG  | Z     | iPg   | 23 27 01 | 30       | Slight                   |
|                |           |       | iSg   | 27 05    |          |                          |

DATE STATION COMPT PHASE G. M. T.  $\Delta$  REMARKS  
h. m. s. km

| DATE           | STATION    | COMPT | PHASE | G. M. T. | $\Delta$ | REMARKS                                         |
|----------------|------------|-------|-------|----------|----------|-------------------------------------------------|
| September 1955 |            |       |       | h. m. s. | km       |                                                 |
| 20             | SHILLONG   | Z     | iPg   | 00 27 52 | 130      | Slight                                          |
|                |            |       | i     | 27 58    |          |                                                 |
|                |            |       | iSg   | 28 07    |          |                                                 |
| 20             | CHATRA     | Z     | eP    | 04 49 45 | 130      | Feeble                                          |
|                |            |       | iS    | 50 03    |          |                                                 |
| 20             | SHILLONG   | Z,N,E | eP    | 13 38 02 | 5910     | Moderate                                        |
|                | N          |       | iS    | 45 27    |          |                                                 |
|                | BOMBAY     | E     | eP    | 13 38 48 |          | Moderate. Very distant shock                    |
|                |            |       | e     | 40 11    |          |                                                 |
|                |            |       | e     | 45 59    |          |                                                 |
|                |            |       | e     | 49 56    |          |                                                 |
|                |            |       | e     | 57 00    |          |                                                 |
|                |            |       | M     | 14 30 -- |          |                                                 |
|                | COLOMBO    | E     | P     | 13 38 52 |          |                                                 |
|                |            |       | e     | 53 30    |          |                                                 |
|                |            |       | e     | 14 14 55 |          |                                                 |
|                |            |       | M     | 23 45    |          | Amp. $\approx$ 1.2 mm                           |
|                | MADRAS     | E     | iP    | 13 38 55 |          | Distant                                         |
|                | POONA      | Z     | e     | 13 39 04 |          | Slight. Probably very distant. Phases not clear |
|                | KODAIKANAL | E     | e     | 13 39 19 |          | Tremor                                          |
|                | HYDERABAD  | E     | e     | 13 39 31 |          |                                                 |
|                |            |       | e     | 49 03    |          |                                                 |
|                |            |       | e     | 14 27 54 |          |                                                 |
|                | DEHRA-DUN  | N     | eP    | 13 40 16 | 7380     | Moderate                                        |
|                |            |       | PPP   | 44 43    |          |                                                 |
|                |            |       | iS    | 49 05    |          |                                                 |
|                |            |       | PS    | 49 37    |          |                                                 |
|                |            |       | SS    | 53 59    |          |                                                 |
|                |            |       | SSS   | 56 45    |          |                                                 |
|                |            |       | Lr    | 14 04 07 |          |                                                 |
|                |            |       | M     | 10 01    |          |                                                 |

20 Epc:  $26^{\circ}N, 89.6^{\circ}E$ . In Bhutan (India).  
H = 20h 21m 19s (Shillong)  
Epic at Shillong, Kalimpong, Goalpara, Gauhati and Teangla.  
 $27^{\circ}N, 90^{\circ}E$ . H = 20h 21m 13s (U.S.C.G.S.)

|           |       |      |          |      |                       |
|-----------|-------|------|----------|------|-----------------------|
| SHILLONG  | Z,N,E | iP   | 20 21 55 | 150  | Moderate, near        |
|           | E     | PP   | 22 05    |      | Mag. $\approx$ 5%-5%. |
|           |       | PPP  | 22 11    |      |                       |
|           |       | iS   | 22 22    |      |                       |
|           |       | SS   | 22 31    |      |                       |
|           |       | SSS  | 22 46    |      |                       |
| CHATRA    | Z     | eP   | 20 21 57 | 340  | Slight                |
|           | E,Z   | iS   | 22 35    |      |                       |
| BOKARO    | N,E   | eP   | 20 22 38 | 620  | Slight                |
|           |       | PP   | 22 45    |      |                       |
|           |       | PPP  | 22 51    |      |                       |
|           |       | Pg   | 23 03    |      |                       |
|           |       | Lq   | 23 33    |      |                       |
|           |       | iS   | 23 45    |      |                       |
|           |       | Lr   | 23 49    |      |                       |
|           |       | SS   | 23 56    |      |                       |
|           |       | SSS  | 24 09    |      |                       |
|           |       | Sg/M | 24 16    |      |                       |
| DEHRA-DUN | N,E   | eP   | 20 23 52 | 1120 | Slight                |
|           | N     | PP   | 24 00    |      |                       |
|           |       | PPP  | 24 10    |      |                       |
|           |       | iS   | 25 47    |      |                       |
|           |       | SS   | 25 58    |      |                       |
|           |       | Lr   | 26 05    |      |                       |
|           |       | SSS  | 26 09    |      |                       |
|           |       | S*   | 26 24    |      |                       |
|           |       | Sg/M | 26 51    |      |                       |

DATE STATION COMPT PHASE G. M. T. Δ REMARKS  
h m s km

September 1955

20 NEW DELHI E eP 20 23 55 1170 Slight  
Contd. PP 24 03  
P\* 24 22  
Lq 25 44  
iS 25 55  
N,E SS 26 08  
N SSS 26 18

MADRAS E eP 20 25 12 1700 Slight  
eS 28 03  
SSS 28 36  
Lr 28 45

POONA Z eP 20 25 17 1790 Slight  
E PPP 25 39  
eS 28 16  
SS 28 39  
SSS 28 50  
Lr 28 57  
PcP 29 52  
M 30 20

BOMBAY N,E eP 20 25 32 1930 Slight  
E PP 25 38  
PPP 25 57  
N,E eS 28 45  
E SS 28 57  
SSS 29 17  
N M 30 46  
E M 31 -- Per. 24 secs

KODAIKANAL E e 20 29 56

21 DEHRA DUN N,E e 06 32 56 Tremor

21 SHILLONG Z,N,E iP 06 52 21 9170 Distant.  
N SKS 07 03 13 Compression.  
iS 03 32  
PS 04 16  
SS 09 14

BOMBAY E e 06 53 33 Feeble  
e 57 58  
e 07 04 06

21 COLOMBO E P 07 03 15 Trace faint  
L 27 --

21 SHILLONG Z iP 10 16 29 Compression

21 SHILLONG Z e 12 48 46 Rarefaction

21 COLOMBO E P 13 53 05  
L 14 30 10

21 CHATRA Z i 15 12 08 Feeble, very near

21 SHILLONG Z i 21 02 14 Rarefaction.

21 SHILLONG Z eP 21 25 18 330 Slight.  
P\* 25 22 Rarefaction  
PP 25 26  
Pg 25 28  
S\* 25 59  
Sg 26 05

22 Epc: 23°N, 122°E. Off the Eastern Coast of Formosa  
H = 03h 25m 18s (Shillong)  
24°N, 123°E. H = 03h 25m 03s (U.S.C.G.S)  
Felt at Taipei  
Magnitude = 7 $\frac{1}{2}$ -7 $\frac{3}{4}$  (De Bilt), 7 (Shillong, Kiruna).

SHILLONG Z,N,E iP 03 30 59 2960  
N PP 31 44  
PPP 32 01  
iS 35 33  
Lq 36 38  
SS 36 53  
SSS 37 39  
Lr 37 50  
M 39 53  
Per. 15 secs  
μ = 163

BOKARO N eP 03 31 51 3670  
PP 33 02  
PPP 33 21  
PcP 34 21  
iS 37 09  
PcS 38 05  
Lq 39 16  
SS 39 27  
SSS 39 39  
Lr 40 35  
ScS 42 01  
M 43 16  
Per. 15 secs  
μ = 40.6

DATE STATION COMPT PHASE G. M. T. Δ REMARKS  
h m s km

September 1955

22 DEHRA DUN N,E eP 03 32 47 4320  
Contd. N PP 34 07  
PPP 34 57  
iS 38 46  
PS 38 54  
PPS 39 12  
SS 41 41  
Lq 42 00  
SSS 42 23  
Lr 43 49  
M 47 12  
Per. 18 secs

HYDERABAD E eP 03 32 47 4380 Ground movement  
iP 33 02 West  
PP 34 31  
iS 39 05  
SS 42 33  
L 45 01  
M 50 01  
Per. 15 secs  
μ = 32

NEW DELHI N iP 03 32 54 4350 Ground movement  
PP 34 26 West  
PPP 34 52  
iS 38 55  
Lq 41 57  
Lr 43 36  
M 46 44

MADRAS E iP 03 32 57 4570  
PP 34 36  
PcP 34 43  
PPP 35 11  
iS 39 11  
SS 42 01  
Lq 43 01  
SSS 43 54  
Lr 44 33  
M 48 12

COLOMBO E P 03 33 20  
S 39 54  
L 49 56  
M 54 57  
Amp. = 2.0 mm

POONA Z,E iP 03 33 28 4910 Rarefaction.  
E PP 35 08 Ground movement  
PPP 35 49 East  
eS 40 02  
PPS 40 11  
N SS 43 09  
E Lq 44 00  
M 49 57  
N Mn 52 45  
Per. 11.3 secs  
μ = 43.3

KODAIKANAL E iP 03 33 29 5000 Ground movement  
PP 35 18 West  
PPP 35 57  
iS 40 08  
SS 43 18  
Lq 44 03  
SSS 44 12  
Lr 46 08  
M 49 45  
Per. 13 secs  
μ = 12.3

BOMBAY E iP 03 33 35 5190  
N eP 33 40  
E PP 35 31  
N PPP 36 15  
E iS 40 25  
N eS 40 30  
e 41 04  
SS 43 38  
M 53 31  
Per. 14 secs  
μ = 29  
E M 57 07  
Per. 13 secs  
μ = 6

22 SHILLONG Z iP 11 23 56 Slight.  
Rarefaction

22 SHILLONG Z eP 17 05 02 450 Slight  
P\* 05 12  
PPP 05 15  
Pg 05 20  
S 05 50  
S\* 05 58  
Sg 06 13

22 SHILLONG Z iP 20 25 23 180 Slight  
P\* 25 25  
Pg 25 28  
S\* 25 52  
Sg 25 55







| DATE                  | STATION                                                                                                                                                | COMPT | PHASE | G. M. T. | REMARKS                      | DATE   | STATION   | COMPT | PHASE | G. M. T. | REMARKS                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|------------------------------|--------|-----------|-------|-------|----------|------------------------------------------|
|                       |                                                                                                                                                        |       |       | H. M. S. | km.                          |        |           |       |       | H. M. S. | km.                                      |
| <b>September 1955</b> |                                                                                                                                                        |       |       |          |                              |        |           |       |       |          |                                          |
| 26                    | BOMBAY                                                                                                                                                 | N,E   | e     | 08 47 35 |                              | 28     | BOMBAY    | E     | eP    | 01 52 37 |                                          |
| Contd.                |                                                                                                                                                        | E     | e     | 09 10 07 |                              | Contd. |           |       | eS    | 57 16    |                                          |
|                       |                                                                                                                                                        |       | i     | 10 45    |                              |        |           |       | i     | 58 06    |                                          |
|                       | POONA                                                                                                                                                  | Z     | iP    | 08 47 37 | Phases not clear             | 28     | SHILLONG  | Z     | eP    | 04 28 55 | Very feeble, other phases not clear.     |
|                       | HYDERABAD                                                                                                                                              | E     | e     | 08 47 47 |                              | 28     | SHILLONG  | Z     | i     | 08 17 02 | Tremor                                   |
|                       |                                                                                                                                                        |       | e     | 09 09 47 |                              | 29     | SHILLONG  | Z     | i     | 10 03 19 | Tremor, local.                           |
|                       |                                                                                                                                                        |       | e     | 38 07    |                              | 29     | SHILLONG  | Z     | Pg    | 10 37 42 | 90 Slight, local                         |
|                       | MADRAS                                                                                                                                                 | E     | eP    | 08 47 51 | Ground movement East.        | 29     | SHILLONG  | Z     | eS    | 57 52    |                                          |
|                       | COLOMBO                                                                                                                                                | E     | e     | 08 48 04 |                              | 29     | SHILLONG  | Z     | iP    | 11 41 58 | Slight, Compression                      |
|                       |                                                                                                                                                        |       | e     | 09 05 29 |                              | 29     | SHILLONG  | Z     | iP    | 13 00 36 | Slight, Other phases doubtful.           |
|                       |                                                                                                                                                        |       | e     | 47 34    |                              |        |           |       |       |          |                                          |
|                       | KODAIKANAL                                                                                                                                             | E     | e     | 08 48 11 |                              |        |           |       |       |          |                                          |
| 26                    | SHILLONG                                                                                                                                               | Z     | e     | 23 59 57 | Slight, Compression          | 29     | DEHRA DUN | N,E   | eP    | 13 03 13 | 2350 Slight                              |
| 27                    | CHATRA                                                                                                                                                 | Z     | iP    | 05 03 31 | 250 Slight                   |        |           |       | iS    | 07 04    |                                          |
|                       |                                                                                                                                                        |       | iS    | 03 55    |                              |        |           |       | Lq    | 07 19    |                                          |
| 27                    | SHILLONG                                                                                                                                               | Z     | iP    | 05 04 36 | Slight, distant. Rarefaction |        |           |       | SS    | 07 46    |                                          |
| 27                    | CHATRA                                                                                                                                                 | Z     | iP    | 05 17 40 | 210 Slight                   |        | NEW DELHI | E     | eP    | 13 03 23 | 2370 Slight                              |
| 27                    | SHILLONG                                                                                                                                               | Z     | e     | 05 18 36 | Slight, distant, rarefaction |        |           |       | eS    | 07 16    |                                          |
| 27                    | SHILLONG                                                                                                                                               | Z     | eP    | 08 50 41 | Slight, local. Rarefaction   |        |           |       | SS    | 07 53    |                                          |
|                       |                                                                                                                                                        |       |       |          |                              |        |           |       | M     | 10 11    |                                          |
| 28                    | Epc: Yunan Province China.<br>27°N, 101½°E. - H ± 01h 46m 36s (U.S.C.G.E.)<br>25°N, 102°E. - H ± 01h 46m 42s (Shillong).<br>Magnitude ± 5% (Shillong). |       |       |          |                              |        |           |       |       |          |                                          |
|                       | SHILLONG                                                                                                                                               | Z,N,E | iP    | 01 48 48 | 940                          | 29     | BOMBAY    | E     | e     | 13 10 00 | Near shock.                              |
|                       |                                                                                                                                                        | N     | PP    | 48 53    |                              |        |           |       | e     | 14 03    |                                          |
|                       |                                                                                                                                                        |       | PPP   | 49 02    |                              | 29     | DEHRA DUN | N,E   | e     | 15 08 07 | Tremor                                   |
|                       |                                                                                                                                                        |       | Lq    | 50 16    |                              | 29     | SHILLONG  | Z     | iP    | 20 06 17 | Slight, rarefaction.                     |
|                       |                                                                                                                                                        |       | iS    | 50 25    |                              | 29     | DEHRA DUN | N,E   | e     | 20 07 24 | Feeble. Phases not clear                 |
|                       |                                                                                                                                                        |       | SS    | 50 34    |                              |        |           |       | i     | 07 46    |                                          |
|                       |                                                                                                                                                        |       | SSS   | 50 49    |                              |        |           |       | i     | 14 34    |                                          |
|                       |                                                                                                                                                        |       | M     | 51 23    | Per. ± 13.5 secs             | 29     | POONA     | Z     | iP    | 20 08 31 | Tremor                                   |
|                       | BOKARO                                                                                                                                                 | N,E   | eP    | 01 50 02 | 1610                         | 30     | SHILLONG  | Z     | eP    | 03 15 59 | Slight. Beginning uncertain.             |
|                       |                                                                                                                                                        |       | FP    | 50 09    |                              | 30     | SHILLONG  | Z     | eP    | 03 44 27 | Slight, rarefaction                      |
|                       |                                                                                                                                                        |       | PPP   | 50 17    |                              | 30     | COLOMBO   | E     | eP    | 06 11 25 |                                          |
|                       |                                                                                                                                                        |       | Lq    | 52 38    |                              |        |           |       | L     | 25 30    |                                          |
|                       |                                                                                                                                                        |       | eS    | 52 35    |                              |        |           |       | M     | 32 00    | Amp. ± 0.4 mm                            |
|                       |                                                                                                                                                        |       | SS    | 53 06    |                              | 30     | SHILLONG  | Z     | iP    | 07 08 36 | 4170 Slight, Compression                 |
|                       |                                                                                                                                                        |       | SSS   | 53 07    |                              |        |           |       | iP    | 08 37    | First movement                           |
|                       |                                                                                                                                                        |       | Lr    | 53 23    |                              |        |           |       | PP    | 10 09    | East.                                    |
|                       |                                                                                                                                                        |       | Sg/M  | 54 30    |                              |        |           |       | FPP   | 10 27    |                                          |
|                       |                                                                                                                                                        |       | PcP   | 54 56    |                              |        |           |       | PcP   | 10 55    |                                          |
|                       |                                                                                                                                                        |       | PcS   | 58 26    |                              |        |           |       | iS    | 14 25    |                                          |
|                       |                                                                                                                                                        |       | ScS   | 02 02 01 |                              |        |           |       | SS    | 16 43    |                                          |
|                       | DEHRA DUN                                                                                                                                              | N,E   | eP    | 01 51 27 | 2350                         |        | DEHRA DUN | N,E   | e     | 07 10 29 | Slight. Phases not clear                 |
|                       |                                                                                                                                                        | N     | PPP   | 51 57    |                              |        |           |       | i     | 17 33    |                                          |
|                       |                                                                                                                                                        |       | iS    | 55 18    |                              |        |           |       | i     | 22 22    |                                          |
|                       |                                                                                                                                                        |       | Lq    | 55 37    |                              |        | POONA     | Z     | eP    | 07 10 36 | Tremor                                   |
|                       |                                                                                                                                                        |       | SS    | 55 56    |                              |        | BOKARO    | N,E   | i     | 07 15 32 | Slight                                   |
|                       |                                                                                                                                                        |       | SSS   | 56 11    |                              |        |           |       | i     | 21 32    |                                          |
|                       |                                                                                                                                                        |       | Lr    | 56 31    |                              | 30     | SHILLONG  | Z     | e     | 13 26 22 | Slight. Phases not clear. Probably near. |
|                       |                                                                                                                                                        |       | M     | 58 28    |                              |        |           |       | i     | 26 31    |                                          |
|                       | NEW DELHI                                                                                                                                              | E     | iP    | 01 51 31 | 2410 First movement West.    | 30     | POONA     | Z     | eP    | 15 07 53 | Tremor                                   |
|                       |                                                                                                                                                        | N,E   | PP    | 51 55    |                              | 30     | SHILLONG  | Z     | eP    | 19 25 45 | Slight, Compression                      |
|                       |                                                                                                                                                        | N     | iS    | 55 27    |                              |        |           |       | i     | 25 46    |                                          |
|                       |                                                                                                                                                        |       | SS    | 56 11    |                              |        |           |       | i     | 35 03    |                                          |
|                       |                                                                                                                                                        |       | Lr    | 56 50    |                              | 30     | DEHRA DUN | N,E   | e     | 19 26 15 | Tremor                                   |
|                       |                                                                                                                                                        |       | M     | 58 44    |                              | 30     | POONA     | Z     | iP    | 19 27 15 | Tremor                                   |
|                       | HYDERABAD                                                                                                                                              | E     | eP    | 01 51 47 | Other phases lost            | 30     | SHILLONG  | Z     | iP    | 20 08 13 | Slight, rarefaction.                     |
|                       | MADRAS                                                                                                                                                 | E     | iP    | 01 51 58 | 2730 Ground movement East.   |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | PP    | 52 29    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | PPP   | 52 45    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | PcP   | 55 26    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | eS    | 56 17    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | Lq    | 56 55    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | ScS   | 02 02 34 |                              |        |           |       |       |          |                                          |
|                       | POONA                                                                                                                                                  | Z     | eP    | 01 52 21 | 2960                         |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        | N     | eS    | 56 55    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | PcS   | 59 15    |                              |        |           |       |       |          |                                          |
|                       |                                                                                                                                                        |       | M     | 02 01 07 |                              |        |           |       |       |          |                                          |

13

| DATE           | STATION   | COMPT | PHASE | G. M. T.<br>h. m. s. | $\Delta$<br>km | REMARKS                   |
|----------------|-----------|-------|-------|----------------------|----------------|---------------------------|
| September 1955 |           |       |       |                      |                |                           |
| 30             | SHILLONG  | Z     | iP    | 20 19 29             |                | Slight, rarefaction.      |
| 30             | SHILLONG  | Z     | iP    | 20 32 38             |                | Slight, rarefaction.      |
| 30             | DEHRA DUN | N,E   | e     | 22 38 24             |                | Feeble. Phases not clear. |

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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 month of September 1955.

| PLACE AT WHICH FELT | DATE IN G. M. T. | TIME IN G. M. T.<br>h. m. | DURATION IN SECS. | INTENSITY IN R.F. SCALE | NO. OF SHOCKS | REMARKS              |
|---------------------|------------------|---------------------------|-------------------|-------------------------|---------------|----------------------|
| SRINAGAR            | 07               | 19 00                     | 5                 | V                       | 1             |                      |
| SHILLONG            | 08               | 04 47                     | 3                 | III                     | 1             |                      |
| NORTH LAKHIMPUR     | 08               | 04 50                     | 3                 | IV                      | 2             |                      |
| PORT BLAIR          | 10               | 09 20                     | 5                 | V                       | 2             |                      |
| SRINAGAR            | 13               | 02 36                     | 40                | V                       | 4             |                      |
| SRINAGAR            | 20               | 20 30                     | -                 | -                       | -             |                      |
| SHILLONG            | 21               | 20 29                     | 5                 | IV                      | 1             |                      |
| GAUHATI             | 21               | 20 24                     | 25                | V                       | 1             | Direction Northeast. |
| TANGLA<br>(Durrang) | 21               | 20 15                     | 10                | IV                      | 1             |                      |
| KOLI (N.E.F.A)      | 22               | 17 05                     | -                 | -                       | -             | No damage reported.  |
| GOAL PARA           | 23               | 05 25                     | 2                 | IV                      | 1             |                      |

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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

Instruments and their constants

STATION	INSTRUMENTS	COMPONENT	PERIOD IN SECOND	STATIC MAGNIFICA- TION	DAMPING RATIO	PAPER SPEED IN mm/min.
BOKARO	Wood-Anderson	E	0.8	960	0.8	
	Wood-Anderson	N	0.8	1000	0.8	
	Milne-Shaw	N	12.0	250	20:1	16.0
	Milne-Shaw	E	12.0	250	20:1	16.0
BOMBAY	Milne-Shaw	N	12.0	350	30:1	16.0
	Milne-Shaw	E	12.0	350	3:1	8.0
	Sprengnether					
	Microseismograph	E	7.0			30.0
CHATRA	Milne-Shaw	E	12.0	250	20:1	16
	Benioff Vertical	Z	$T_0=0.72$ $T_g=0.45$		Critical	60
	Wood-Anderson	E	1.0	1000	30:1	60
COLOMBO	Milne-Shaw	E	12.0	250	20:1	8.0
DEHKA DUN	Wood-Anderson	N	0.8	800	60:1	50
	Wood-Anderson	E	0.8	950	60:1	60
	Milne-Shaw	N	12.0	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	$T_0=T_g=7.3$			30
NEW DELHI	Milne-Shaw	N	12	320	20:1	8
	Wood-Anderson	N	4	900	20:1	16
	Wood-Anderson	E	2	1770	30:1	60
	Omari-Ewing	E	30	30	1	12
POONA	Sprengnether Vertical	Z	$T_0=T_g=1.5$			30
SHILLONG	Milne-Shaw	N	12.0	250	20:1	8
	Wood-Anderson	E	$T_0=1.0$	1100	20:1	16
	Benioff Vertical	Z	$T_g=0.18$			60
	Sprengnether	E	$T_0=T_g=7.6$			30
	Milne-Shaw	N	12	250	20:1	8
	Wood-Anderson	E	0.8	1000	Critical	30
	Wood-Anderson	N	0.8	1000	Critical	30

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	
October 1955							October 1955							
01	SHILLONG	Z	iP	00 22 52		Slight. Compression.	02	SHILLONG	Z	iP	14 52 57		Slight. Compression.	
01	POONA	Z	eP	05 35 42		Feeble. Phases not clear	04	CHATRA	Z	eP iS	00 55 09 55 27	140	Feeble	
01	Epc: 30°N, 101°E. Sinkiang Province, China. - H = 06h 29m 54s (U.S.C.G.S) Magnitude = 6 (Kiruna).						04	SHILLONG	Z	iP	06 13 29		Slight	
	SHILLONG	Z,E	iP	06 32 13	1040	Compression. Ground movement West.	04	SHILLONG	Z	eP P* Pg iSg	06 47 18 47 20 47 23 47 48	220	Slight	
		E	PPP	32 29			04	SHILLONG	Z	iPg/P* eSg	08 54 25 54 36	90	Slight	
			Lq	33 49			04	SHILLONG	Z	iP	12 48 01		Slight	
			iS	34 00			04	SHILLONG	Z	eP	14 54 09		Slight	
			SS	34 14				DEHRA DUN	N,E	e	14 58 35		Tremor	
			Lr	34 19			04	SHILLONG	Z	iP	16 49 59	270		
			SSS	34 28						P* Pg Sg	50 02 50 06 50 37			
			M	35 01			04	CHATRA	Z	eP iS	17 50 56 52 01	140	Feeble	
	BOKARO	N,E	i	06 38 19		Other phases not clear	05	SHILLONG	Z	eP Pg Lq iS Sg	04 29 41 29 56 30 13 30 26 30 42	410	Slight	
	DEHRA DUN	N,E	eP	06 34 32	2320			CHATRA	Z	eP iS	04 30 24 32 02	950	Slight	
		N	PP	34 45			05	SHILLONG	Z	iP eS	09 07 45 15 35	6260	Slight	
			iS	38 21				POONA	Z	iP	09 09 31		Tremor	
			Lq	38 35			05	DEHRA DUN	N,E	e	20 12 10		Feeble. Phases not clear.	
			SS	38 56			06	Epc: 30°S, 70°W. Mendoza Province, Argentina. - H = 11h 03m 16s (U.S.C.G.S) Magnitude = 6½ (Pasadena), 6.4 (Takubaya).						
			SSS	39 14				MADRAS	E	ePKP i i i	11 22 23 25 50 32 25 44 19			
			Lr	39 34										
			M	41 07				POONA	Z	iP e	11 22 29 25 49		Tremor	
	NEW DELHI	N	eP	06 34 42	2110			HYDERABAD	E	e i	11 22 38 32 33			
			PP	34 52				DEHRA DUN	N,E	ePKP e e e e	11 22 48 33 14 34 38 42 47 46 07 57 26			
			PPP	35 07										
			iS	38 11				SHILLONG	Z	ePKP i e i	11 22 57 23 40 27 17 33 55			
			SS	38 35										
			Lr	39 07				COLOMBO	E	e e e	11 25 21 31 56 42 56			
			M	41 01										
	BOMBAY	E	eP	06 35 52	3170			BOMBAY	E	e e	11 25 47 32 20			
			e	36 22				BOKARO	N,E	e e e e	11 27 00 33 26 37 07 37 18 43 03			
			PcP	38 48										
			eS	40 40				06	SHILLONG	Z	iP P* Pg eSg	21 20 23 20 26 20 30 20 54	270	Slight
		N,E	i	41 02										
		E	Lq	41 56										
			SSS	42 28										
			Lr	43 10										
		N	M	45 27		Per. = 7 secs. Δ = 2								
	COLOMBO	E	M	06 54 29		Trace overlapping Amp. = 0.6 mm								
01	SHILLONG	Z	iP	08 51 14	340	Slight. Rarefaction								
			iSg	52 04										
01	SHILLONG	Z	e	10 31 09		Tremor								
01	SHILLONG	Z	i	18 34 02		Slight, local								
			i	34 07										
01	SHILLONG	Z	iP	19 02 32		Slight. Rarefaction								
01	SHILLONG	Z	i	19 21 53		Slight. Probably near.								
01	CHATRA	Z	ePg iSg	19 27 05 27 17	100	Feeble								
01	SHILLONG	Z	iPg iSg	20 03 50 03 55	40	Slight								
01	SHILLONG	Z	iP	23 14 32		Slight. Compression								
02	SHILLONG	Z	iPg iSg	04 34 46 34 51	40	Slight								
02	SHILLONG	Z	i	07 35 39		Slight, near.								
02	SHILLONG	Z	i	12 20 19		Slight. Compression. Local. Phases not clear								
	CHATRA	Z	iP iS	12 21 15 21 58	390	Feeble								
02	SHILLONG	Z	iP	12 45 36		Compression. Feeble.								

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1955							October 1955						
07	SHILLONG	Z	iP eSg	07 29 54 30 27	280	Slight	10	COLOMBO	E	P S L M	09 09 20 19 08 35 20 39 20	8550	
	CHATRA	Z	eP iS	07 30 53 32 14	780	Slight							Amp. \approx 3.5 mm
	DEHRA DUN	N,E	e	07 35 38		Tremor		MADRAS	E	iP PcP PP PPF iS PS PPS SS Lq	09 09 27 09 43 12 00 13 49 18 37 18 59 19 13 22 45 27 48	7780	Ground movement West
07	SHILLONG	Z	eP	07 59 45		Slight							
07	SHILLONG	Z	eP	11 45 15		Slight							
	DEHRA DUN	N,E N	eP PPP Lr iS S* SS SSS	11 57 34 57 46 58 06 58 10 58 15 58 21 58 31	330	Slight		HYDERABAD	F	iP iS PS SS L M	09 09 40 19 38 20 41 24 32 35 23 43 41	8750	Ground movement West Per. \approx 15 secs D \approx 7
	NEW DELHI	N,E	eP P* Pg i Lq iS S* Sg	11 57 59 58 08 58 18 58 28 58 39 58 52 59 04 59 14	490	Slight		NEW DELHI	N,E N	iP iS PPS SS SSS Lq Lr	09 09 57 19 52 20 51 25 28 28 54 32 00 34 19	8690	
	POONA	Z	e	12 00 03		Very feeble. Phases not clear							
08	DEHRA DUN	N,E	e	00 47 19		Tremor		DEHRA DUN	N,E N	eP PP PPP iS PS PPS SS SSS Lq Lr M	09 09 58 13 25 14 44 19 52 20 32 20 50 24 54 27 51 30 27 34 45 41 01	8560	
08	SHILLONG	Z	iP	22 12 25		Slight							
09	DEHRA DUN	N,E	e	05 09 09		Tremor							
09	SHILLONG	Z	iP	17 50 53		Slight							
	DEHRA DUN	N,E N	e i	17 52 23 18 02 47		Slight. Phases not clear							
	POONA	Z	e	17 52 29		Tremor		POONA	Z,N N	eP eS PPS SS Lr M	09 10 06 20 03 21 03 25 05 34 03 41 14	8730	
	BOKARO	N,E	e	18 00 50 01 46		Slight		BOMBAY	N,E E E N,E E E	eP iP i PP eS iS i PS SS	09 10 10 11 50 13 21 20 20 20 35 21 16 26 05	9020	
	COLOMBO	E	P L M	18 01 22 18 55 24 00		Amp. \approx 0.6 mm							
	BOMBAY	E	e	18 02 45									
09	DEHRA DUN	N,E	e i	23 25 11 26 01		Slight. Phases not clear							
	POONA	Z	e	23 26 13		Tremor							
	BOMBAY	N N,E	eP eS	23 26 18 36 48	9470	Slight	10	SHILLONG	Z	P Lq iSg	22 02 33 02 43 03 02	210	Slight
	BOKARO	N,E	e	23 34 43		Slight		CHATRA	Z	iP iS	22 03 21 04 34	700	Slight
	COLOMBO	E	eP	23 37 --				DEHRA DUN	N,E	e	22 07 58		Tremor
10	DEHRA DUN	N,E	e i	04 46 39 48 05		Feeble. Phases not clear.	10	SHILLONG	Z	eP	23 11 34		Slight
10	Epc: 5°S, 153°E. New Britain. H = 08h 57m 44s (USCGS) 5 1/2°S, 153°E. H = 08h 57m 44s (B.C.I.S) Magnitude \approx 7 1/2 (Skalnate Pleso), 7.7 (Hurbanovo), 7.5 (Wellington, Kiruna), 7 1/2 (Praha).						10	SHILLONG	Z	eP Pg iSg	23 49 46 49 49 50 09	180	Slight
	SHILLONG	Z	eP iS	09 08 36 17 25	7380		11	SHILLONG	Z	eP	01 22 08		Slight
	BOKARO	N,E	iP PcP PP PPP iS SKS ₁ PS PPS SS SSS Lq Lr M	09 09 07 09 18 11 54 13 39 18 27 18 53 19 12 19 23 23 04 25 58 27 58 31 35 35 35	7980		11	POONA	Z	e	03 01 54		
						Per. \approx 30 secs D \approx 137.5	11	COLOMBO	E	e	04 23 20		
								BOMBAY	N	e	04 23 50		
							11	SHILLONG	Z	iP	05 22 11		Slight. Compression.
							11	POONA	Z,N	e	14 59 17		Phases not clear

DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS	DATE	STATION	COMPT	PHASE	G. M. T. h. m. s.	Δ km	REMARKS
October 1955							October 1955						
27	SHILLONG	Z	iP	04 08 59		Slight	30	SHILLONG	Z	e	17 36 41		Slight
27	SHILLONG	Z	eP i	05 05 18 06 02		Slight, local	30	SHILLONG	Z	ePg iSg	23 15 35 15 47	110	Slight, local
27	SHILLONG	Z	e	07 32 37		Slight	31	Epc: 52°N, 175°W. Andreevof Islands, Aleutian Islands. H = 01h 05m 53s (U.S.C.G.S) Magnitude = 5M (Kiruna, Uppsala), 5.6(Roma).					
27	SHILLONG	Z	iPg	11 16 08		Slight, local		SHILLONG	Z, E N	iP eP	01 17 19 17 20	7890	
27	SHILLONG	Z	iP	12 00 29		Slight			E N	eS M	26 35 26 40 40 --		
27	SHILLONG	Z	eP	13 43 35		Slight		DEHRA DUN	N, E	eP	01 17 50 27 29		Phases not clear
27	SHILLONG	Z	e	14 32 12		Slight		POONA	Z	iP	01 18 45		Tremor
27	SHILLONG	Z	e	20 12 53		Slight, local	31	SHILLONG	Z	i i	03 03 32 03 36		Slight
28	SHILLONG	Z	iPg	11 08 18		Slight, local	31	SHILLONG	Z	e	08 08 04		Slight
28	SHILLONG	Z	e	12 37 22		Slight	31	BOMBAY	E	e e	09 05 17 08 46		Slight
28	SHILLONG	Z	iPg iSg	13 21 43 21 52	80	Slight	31	SHILLONG	Z	iP	09 08 13		Slight
29	SHILLONG	Z	iP iSg	01 10 30 11 05	250	Slight	31	SHILLONG	Z	e	09 11 18		Slight
29	SHILLONG	Z	eP	02 29 50		Slight	31	DEHRA DUN	N, E	e	14 19 31		Tremor
29	SHILLONG	Z	eP Sg	05 30 05 30 22	150	Slight, local	31	DEHRA DUN	N, E	e	14 52 00		Tremor
29	SHILLONG	Z	iP	13 16 17		Slight	31	DEHRA DUN	N, E	e	16 40 36		Tremor
29	DEHRA DUN	N, E	e	18 35 41		Tremor	31	DEHRA DUN	N, E	e	17 06 24		Tremor
30	SHILLONG	Z	iP	07 28 13		Slight, near	31	SHILLONG	N, E	e	21 09 24		Tremor
30	SHILLONG	Z	iP e	11 42 18 48 06		Slight							

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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 month of October 1955.

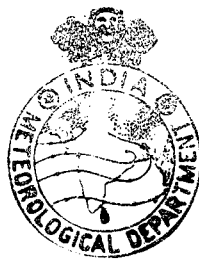
Place at which felt	Date in G. M. T.	Time in G. M. T.	Duration in secs.	Intensity in R.F. scale	No. of shocks	Remarks
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SHILLONG	18	15 34	5	IV	2	-
SHILLONG	20	16 58	3	IV	1	-

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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



Instruments and their constants

| STATION    | INSTRUMENTS              | COMPONENT | PERIOD<br>IN<br>SECOND   | STATIC<br>MAGNIFICA-<br>TION | DAMPING RATIO | PAPER SPEED<br>IN<br>mm/min. |
|------------|--------------------------|-----------|--------------------------|------------------------------|---------------|------------------------------|
| BOKARO     | Wood-Anderson            | E         | 0.8                      | 960                          | 0.8           |                              |
|            | Wood-Anderson            | N         | 0.8                      | 1000                         | 0.8           |                              |
|            | Milne-Shaw               | N         | 12.0                     | 250                          | 20:1          | 16.0                         |
|            | Milne-Shaw               | E         | 12.0                     | 250                          | 20:1          | 16.0                         |
| BOMBAY     | Milne-Shaw               | N         | 12.0                     | 350                          | 30:1          | 16.0                         |
|            | Milne-Shaw               | E         | 12.0                     | 350                          | 3:1           | 8.0                          |
|            | Sprengnether             |           |                          |                              |               |                              |
|            | Microseismograph         | E         | 7.0                      |                              |               | 30.0                         |
| CHATRA     | Milne-Shaw               | E         | 12.0                     | 250                          | 20:1          | 16                           |
|            | Benioff Vertical         | Z         | $T_0=0.72$<br>$T_g=0.45$ |                              | Critical      | 60                           |
|            | Wood-Anderson            | E         | 1.0                      | 1000                         | 30:1          | 60                           |
| COLOMBO    | Milne-Shaw               | E         | 12.0                     | 250                          | 20:1          | 8.0                          |
| DEHRA DUN  | Wood-Anderson            | N         | 0.8                      | 800                          | 60:1          | 60                           |
|            | Wood-Anderson            | E         | 0.8                      | 950                          | 60:1          | 60                           |
|            | Milne-Shaw               | N         | 12.0                     | 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         | $T_0=T_g=7.3$            |                              |               | 30                           |
| NEW DELHI  | Milne-Shaw               | N         | 12                       | 320                          | 20:1          | 8                            |
|            | Wood-Anderson            | N         | 4                        | 900                          | 20:1          | 16                           |
|            | Wood-Anderson            | E         | 2                        | 1770                         | 30:1          | 60                           |
|            | Omari-Ewing              | E         | 30                       | 30                           | 1             | 12                           |
| POONA      | Sprengnether<br>Vertical | Z         | $T_0=T_g=1.5$            |                              |               | 30                           |
| SHILLONG   | Milne-Shaw               | N         | 12.0                     | 250                          | 20:1          | 8                            |
|            | Wood-Anderson            | E         | $T_0=1.0$                | 1100                         | 20:1          | 16                           |
|            | Benioff Vertical         | Z         | $T_g=0.18$               |                              |               | 60                           |
|            | Sprengnether             | E         | $T_0=T_g=7.6$            |                              |               | 30                           |
|            | Milne-Shaw               | N         | 12                       | 250                          | 20:1          | 8                            |
|            | Wood-Anderson            | E         | 0.8                      | 1000                         | Critical      | 30                           |
|            | Wood-Anderson            | N         | 0.8                      | 1000                         | Critical      | 30                           |

| DATE          | STATION                                                                                                                                                     | COMPT | PHASE | G. h. | M. m. | T. s. | Δ km | REMARKS                                 | DATE | STATION                                                           | COMPT | PHASE | G. h. | M. m. | T. s. | Δ km | REMARKS                       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|------|-----------------------------------------|------|-------------------------------------------------------------------|-------|-------|-------|-------|-------|------|-------------------------------|
| November 1955 |                                                                                                                                                             |       |       |       |       |       |      |                                         |      |                                                                   |       |       |       |       |       |      |                               |
| 01            | SHILLONG                                                                                                                                                    | Z     | i     | 06    | 03    | 17    |      | Slight, near.                           | 06   | SHILLONG                                                          | Z     | iP    | 22    | 17    | 39    |      | Slight. Near Rarefaction      |
| 01            | SHILLONG                                                                                                                                                    | Z     | iP    | 10    | 23    | 02    |      | Slight. Compression                     |      |                                                                   |       | i     | 17    | 58    |       |      |                               |
| 01            | SHILLONG                                                                                                                                                    | Z     | i     | 10    | 31    | 22    |      | Slight                                  |      |                                                                   |       | i     | 18    | 19    |       |      |                               |
| 01            | SHILLONG                                                                                                                                                    | Z     | iP    | 10    | 36    | 53    |      | Slight. Rarefaction                     |      |                                                                   |       | i     | 18    | 32    |       |      |                               |
| 01            | SHILLONG                                                                                                                                                    | Z     | i     | 15    | 15    | 55    |      | Slight, local                           |      |                                                                   |       | i     | 18    | 54    |       |      |                               |
| 01            | SHILLONG                                                                                                                                                    | Z     | iPg   | 15    | 17    | 28    | 70   | Slight                                  |      |                                                                   |       | i     | 18    | 57    |       |      |                               |
|               |                                                                                                                                                             |       | iSg   |       | 17    | 36    |      |                                         |      |                                                                   |       |       |       |       |       |      |                               |
| 01            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 18    | 00    | 57    |      | Tremor                                  | 07   | SHILLONG                                                          | Z     | iP    | 12    | 18    | 30    |      | Slight, near                  |
| 01            | Epc: 39°N, 144°E. Off East Coast of Honshu Japan - H ± 23h 46m 10s (U.S.C.G.S)<br>40°N, 144°E. - H ± 23h 46m 14s (C.M.O., Japan).<br>Magnitude: 6 (Kiruna). |       |       |       |       |       |      |                                         | 07   | SHILLONG                                                          | Z     | iP    | 17    | 32    | 28    |      | Slight, near                  |
|               | SHILLONG                                                                                                                                                    | (Z)E  | iP    | 23    | 54    | 36    | 5020 | Slight. Initial ground movement West    | 07   | SHILLONG                                                          | Z     | iP    | 17    | 50    | 31    |      | Slight, near                  |
|               |                                                                                                                                                             |       | PcP   |       | 56    | 12    |      |                                         | 08   | SHILLONG                                                          | Z     | eP    | 03    | 50    | 55    |      | Slight                        |
|               |                                                                                                                                                             |       | i     |       | 56    | 40    |      |                                         | 08   | SHILLONG                                                          | Z     | eP    | 06    | 16    | 13    |      | Slight                        |
|               |                                                                                                                                                             |       | PPP   |       | 57    | 01    |      |                                         | 08   | SHILLONG                                                          | Z     | iP    | 08    | 40    | 56    |      | Slight                        |
|               |                                                                                                                                                             |       | iS    | 24    | 01    | 16    |      |                                         | 08   | SHILLONG                                                          | Z     | iP    | 08    | 41    | 33    |      | Slight                        |
|               |                                                                                                                                                             |       | PPS   |       | 01    | 27    |      |                                         | 08   | SHILLONG                                                          | Z     | iPg   | 10    | 45    | 09    | 40   | Slight                        |
|               |                                                                                                                                                             |       | SS    |       | 04    | 30    |      |                                         |      |                                                                   |       | iSg   | 45    | 14    |       |      |                               |
|               |                                                                                                                                                             |       | SSS   |       | 05    | 28    |      |                                         | 08   | SHILLONG                                                          | Z     | iP    | 11    | 12    | 11    |      | Slight                        |
|               |                                                                                                                                                             |       | M     |       | 11    | 08    |      |                                         | 08   | SHILLONG                                                          | Z     | iP    | 11    | 58    | 36    |      | Slight                        |
|               | CHATRA                                                                                                                                                      | E     | e     | 23    | 55    | 04    |      | Slight, distant                         | 08   | SHILLONG                                                          | Z     | e     | 14    | 50    | 29    |      | Slight, near.                 |
|               | POONA                                                                                                                                                       | Z     | iP    | 23    | 56    | 43    |      | Tremor                                  |      |                                                                   |       | i     | 15    | 43    | 44    |      | Very feeble. Phase not clear. |
| 03            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 11    | 24    | 05    |      | Tremor                                  |      |                                                                   |       | i     | 45    | 49    |       |      |                               |
| 03            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 12    | 59    | 46    |      | Tremor                                  |      |                                                                   |       | i     | 46    | 49    |       |      |                               |
| 04            | SHILLONG                                                                                                                                                    | Z     | iPg   | 00    | 12    | 02    | 90   | Slight                                  | 08   | SHILLONG                                                          | Z     | e     | 15    | 47    | 44    |      | Slight                        |
|               |                                                                                                                                                             |       | iSg   |       | 12    | 13    |      |                                         | 08   | SHILLONG                                                          | Z     | iPg/P | 15    | 57    | 05    | 130  | Slight                        |
| 04            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 07    | 16    | 05    |      | Feeble. Phases not clear                |      |                                                                   |       | P     | 57    | 06    |       |      |                               |
|               |                                                                                                                                                             |       | i     |       | 16    | 19    |      |                                         |      |                                                                   |       | iSg   | 57    | 15    |       |      |                               |
| 04            | SHILLONG                                                                                                                                                    | Z     | eP    | 08    | 06    | 51    |      | Slight                                  | 08   | SHILLONG                                                          | Z     | e     | 18    | 50    | 31    |      | Slight                        |
|               |                                                                                                                                                             |       | i     |       | 07    | 01    |      |                                         | 08   | DEHRA DUN                                                         | N,E   | e     | 22    | 07    | 33    |      | Tremor                        |
| 04            | Epc: 35°S, 69°W. Mendoza Province Argentina. - H ± about 100 km. - H ± 22h 43m 50s (U.S.C.G.S)<br>Magnitude: 6 (Pasadena).                                  |       |       |       |       |       |      |                                         | 08   | SHILLONG                                                          | Z     | iP    | 22    | 33    | 16    |      | Slight                        |
|               | BOMBAY                                                                                                                                                      | E     | ePKP  | 23    | 03    | 24    |      | Distant and deep.                       | 08   | SHILLONG                                                          | Z     | iPg   | 22    | 43    | 55    | 60   | Slight                        |
|               |                                                                                                                                                             |       | e     |       | 13    | 16    |      |                                         |      |                                                                   |       | iSg   | 44    | 01    |       |      |                               |
|               | POONA                                                                                                                                                       | Z     | iPKP  | 23    | 03    | 25    |      | Very feeble. Phases not clear           | 08   | SHILLONG                                                          | Z     | iP    | 22    | 52    | 55    |      | Slight                        |
|               | BOKARO                                                                                                                                                      | N,E   | ePKP  | 23    | 03    | 51    |      | Slight                                  | 09   | SHILLONG                                                          | Z     | iP    | 01    | 24    | 34    |      | Slight                        |
|               |                                                                                                                                                             |       | e     |       | 08    | 31    |      |                                         | 09   | SHILLONG                                                          | Z     | eP    | 04    | 12    | 19    |      | Slight, near.                 |
|               |                                                                                                                                                             |       | i     |       | 14    | 35    |      |                                         |      |                                                                   |       | i     | 12    | 53    |       |      |                               |
|               |                                                                                                                                                             |       | i     |       | 15    | 23    |      |                                         | 09   | SHILLONG                                                          | Z     | eP    | 04    | 44    | 12    |      | Slight, near                  |
|               |                                                                                                                                                             |       | i     |       | 16    | 12    |      |                                         |      |                                                                   |       | i     | 45    | 29    |       |      |                               |
|               |                                                                                                                                                             |       | i     |       | 28    | 31    |      |                                         | 09   | SHILLONG                                                          | Z     | iP    | 10    | 26    | 49    |      | Slight, near                  |
|               | SHILLONG                                                                                                                                                    | Z     | PKP   | 23    | 03    | 51    |      | Slight, distant Other phases not clear. | 09   | SHILLONG                                                          | Z     | iP    | 13    | 01    | 07    |      | Slight, near Compression      |
|               |                                                                                                                                                             | E     | i     |       | 04    | 03    |      |                                         |      |                                                                   |       | i     | 02    | 01    |       |      |                               |
|               | DEHRA DUN                                                                                                                                                   | N,E   | ePKP  | 23    | 03    | 54    |      | Slight. Phases not clear                |      |                                                                   |       | i     | 02    | 29    |       |      |                               |
|               |                                                                                                                                                             |       | i     |       | 14    | 20    |      |                                         | 09   | SHILLONG                                                          | Z     | e     | 14    | 36    | 54    |      | Slight                        |
|               |                                                                                                                                                             |       | i     |       | 18    | 26    |      |                                         | 09   | SHILLONG                                                          | Z     | iPg   | 17    | 48    | 59    | 100  | Slight                        |
|               | COLOMBO                                                                                                                                                     | E     | e     | 23    | 06    | 50    |      |                                         |      |                                                                   |       | iSg   | 49    | 11    |       |      |                               |
|               |                                                                                                                                                             |       | e     |       | 13    | 10    |      |                                         | 09   | SHILLONG                                                          | Z     | iP    | 22    | 08    | 57    |      | Slight Rarefaction            |
|               |                                                                                                                                                             |       | e     |       | 26    | 05    |      |                                         |      |                                                                   |       | e     | 22    | 18    | --    |      |                               |
|               | CHATRA                                                                                                                                                      | E     | iP    | 23    | 08    | 45    | 4330 | Slight                                  |      |                                                                   |       | e     | 20    | 36    |       |      |                               |
|               |                                                                                                                                                             |       | iS    |       | 14    | 45    |      |                                         | 10   | Epc: 5°S, 152°E. New Britain Region - H ± 01h 24m 20s (U.S.C.G.S) |       |       |       |       |       |      |                               |
| 05            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 03    | 57    | 10    |      | Tremor                                  |      | SHILLONG                                                          | Z,E   | eP    | 01    | 35    | 24    | 7480 | Slight                        |
| 06            | SHILLONG                                                                                                                                                    | Z     | i     | 05    | 49    | 45    |      | Slight                                  |      |                                                                   | E     | eS    | 44    | 19    |       |      |                               |
| 06            | SHILLONG                                                                                                                                                    | Z     | i     | 12    | 14    | 36    |      | Slight, local                           |      | POONA                                                             | Z     | eP    | 01    | 36    | 50    |      | Tremor                        |
| 06            | SHILLONG                                                                                                                                                    | Z     | e     | 13    | 26    | 52    |      | Slight                                  |      | CHATRA                                                            | E     | e     | 01    | 45    | 15    |      | Surface waves                 |
| 06            | DEHRA DUN                                                                                                                                                   | N,E   | e     | 20    | 46    | 58    |      | Tremor                                  |      | BOMBAY                                                            | N     | eP    | 01    | 47    | 52    |      |                               |
|               |                                                                                                                                                             |       |       |       |       |       |      |                                         |      |                                                                   |       | e     | 58    | 13    |       |      |                               |

| DATE          | STATION                                                                                                                       | COMPT | PHASE | G. | M. | T. | Δ     | REMARKS                          | DATE          | STATION                                                                                                                                         | COMPT | PHASE | G.   | M.  | T. | Δ    | REMARKS                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|-------|-------|----|----|----|-------|----------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-----|----|------|---------------------------------------------|
|               |                                                                                                                               |       |       | h. | m. | s. | km    |                                  |               |                                                                                                                                                 |       |       | h.   | m.  | s. | km   |                                             |
| November 1955 | 10 Epc: 15°S, 174°W. Samoa Islands. - h: 100 km<br>- H: 01h 44m 04s (U.S.C.G.S)<br>Magnitude: 7.2 (Takubaya), 7.7 (Pasadena). |       |       |    |    |    |       |                                  | November 1955 |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               | SHILLONG                                                                                                                      | Z, E  | eP    | 01 | 57 | 50 | 10030 | Slight                           |               | DEHRA DUN                                                                                                                                       | N, E  | e     | 16   | 14  | 55 |      | Tremor                                      |
|               |                                                                                                                               | E     | PP    | 02 | 01 | 34 |       |                                  |               | SHILLONG                                                                                                                                        | Z     | e     | 16   | 15  | 51 |      | Feeble                                      |
|               |                                                                                                                               |       | PPP   | 03 | 26 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               | N     | SKS   | 08 | 14 |    |       |                                  |               | 11 SHILLONG                                                                                                                                     | Z     | e     | 18   | 37  | 15 |      | Slight                                      |
|               |                                                                                                                               |       | eS    | 08 | 43 |    |       |                                  |               | 12 Epc: 25½°N, 34½°E. Northern Red Sea.<br>- H: 05h 32m 14s (U.S.C.G.S).<br>25.2°N, 34.5°E. - H: 05h 32m 15s (B.C.I.S)<br>Magnitude: 6 (Kiruna) |       |       |      |     |    |      |                                             |
|               |                                                                                                                               | E     | iS    | 09 | 19 |    |       |                                  |               | NEW DELHI                                                                                                                                       | N, E  | iP    | 05   | 39  | 21 | 4070 | Slight                                      |
|               |                                                                                                                               | N, E  | PS    | 15 | 23 |    |       |                                  |               |                                                                                                                                                 |       | PP    | 40   | 42  |    |      |                                             |
|               |                                                                                                                               | N     | SS    | 15 | 29 |    |       |                                  |               |                                                                                                                                                 |       | N     | PPP  | 41  | 02 |      |                                             |
|               |                                                                                                                               |       | Lq    | 21 | 35 |    |       |                                  |               |                                                                                                                                                 |       | N, E  | eS   | 45  | 05 |      |                                             |
|               | BOMBAY                                                                                                                        | N, E  | ePKP  | 02 | 01 | 30 |       |                                  |               |                                                                                                                                                 |       |       | SS   | 47  | 39 |      |                                             |
|               |                                                                                                                               |       | i     | 09 | 26 |    |       |                                  |               |                                                                                                                                                 |       | N     | SSS  | 48  | 05 |      |                                             |
|               |                                                                                                                               |       | i     | 10 | 39 |    |       |                                  |               |                                                                                                                                                 |       |       | e    | 51  | 48 |      |                                             |
|               |                                                                                                                               |       | i     | 11 | 36 |    |       |                                  |               |                                                                                                                                                 |       |       | M    | 59  | 30 |      | Per: 14 secs<br>μ: 1                        |
|               |                                                                                                                               |       | i     | 13 | 35 |    |       |                                  |               | POONA                                                                                                                                           | Z     | iP    | 05   | 39  | 29 |      | Slight. Phases not clear                    |
|               | BOKARO                                                                                                                        | N, E  | e     | 02 | 02 | 23 |       | Slight                           |               | DEHRA DUN                                                                                                                                       | N, E  | e     | 05   | 39  | 43 |      | Slight. Phases not clear                    |
|               |                                                                                                                               |       | i     | 08 | 42 |    |       |                                  |               |                                                                                                                                                 |       | i     | 45   | 42  |    |      |                                             |
|               |                                                                                                                               |       | e     | 08 | 57 |    |       |                                  |               |                                                                                                                                                 |       | i     | 49   | 41  |    |      |                                             |
|               |                                                                                                                               |       | e     | 11 | 39 |    |       |                                  |               | HYDERABAD                                                                                                                                       | E     | eP    | 05   | 40  | 21 | 4660 | Slight. Initial ground movement toward West |
|               |                                                                                                                               |       | e     | 11 | 48 |    |       |                                  |               |                                                                                                                                                 |       | PP    | 40   | 10  |    |      |                                             |
|               |                                                                                                                               |       | e     | 12 | 07 |    |       |                                  |               |                                                                                                                                                 |       | eS    | 46   | 31  |    |      |                                             |
|               |                                                                                                                               |       | e     | 16 | 29 |    |       |                                  |               |                                                                                                                                                 |       | SS    | 49   | 37  |    |      |                                             |
|               | POONA                                                                                                                         | Z     | ePKP  | 02 | 02 | 41 |       | Slight, distant Phases not clear |               |                                                                                                                                                 |       | M     | 58   | 12  |    |      | Per: 15 secs<br>μ: 4                        |
|               | DEHRA DUN                                                                                                                     | N, E  | e     | 02 | 03 | 49 |       | Slight. Phases not clear         |               | KODAIKANAL                                                                                                                                      | E     | eP    | 05   | 40  | 21 |      | Slight. Tremor Phases not clear             |
|               |                                                                                                                               | N     | i     | 09 | 14 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | i     | 10 | 16 |    |       |                                  |               | CHATRA                                                                                                                                          | E     | e     | 05   | 40  | 51 |      | Feeble, near                                |
|               |                                                                                                                               |       | i     | 11 | 08 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | i     | 13 | 19 |    |       |                                  |               | SHILLONG                                                                                                                                        | Z, E  | iP    | 05   | 41  | 20 | 5680 | Slight. Rarefaction                         |
|               |                                                                                                                               |       | i     | 18 | 57 |    |       |                                  |               |                                                                                                                                                 |       | E     | PcP  | 42  | 27 |      |                                             |
|               | COLOMBO                                                                                                                       | E     | iS    | 02 | 08 | 50 |       | Amp: 0.8 mm                      |               |                                                                                                                                                 |       |       | PPP  | 44  | 06 |      |                                             |
|               |                                                                                                                               |       | L     | 16 | 25 |    |       |                                  |               |                                                                                                                                                 |       |       | N    | eS  | 48 | 38   |                                             |
|               |                                                                                                                               |       | M     | 18 | 20 |    |       |                                  |               |                                                                                                                                                 |       |       | E    | PPS | 48 | 41   |                                             |
|               | NEW DELHI                                                                                                                     | N     | i     | 02 | 09 | 13 |       | Slight, distant                  |               |                                                                                                                                                 |       |       | N, E | M   | 59 | 53   |                                             |
|               |                                                                                                                               |       | i     | 10 | 20 |    |       |                                  |               | 12 SHILLONG                                                                                                                                     | Z     | e     | 09   | 59  | 28 |      | Feeble                                      |
|               |                                                                                                                               |       | i     | 11 | 20 |    |       |                                  |               | 12 Epc: 5°S, 152½°E. New Britain. - h: 60 km Ca.<br>- H: 10h 07m 47s (U.S.C.G.S).                                                               |       |       |      |     |    |      |                                             |
| 10            | SHILLONG                                                                                                                      | Z     | iP    | 04 | 07 | 58 |       | Slight. Rarefaction              |               | SHILLONG                                                                                                                                        | Z, E  | iP    | 10   | 18  | 45 | 7370 | Slight. Compression                         |
| 10            | DEHRA DUN                                                                                                                     | N, E  | e     | 09 | 11 | 46 |       | Tremor                           |               |                                                                                                                                                 |       | E     | PcP  | 19  | 09 |      |                                             |
|               | SHILLONG                                                                                                                      | Z     | eP    | 09 | 11 | 57 |       | Slight                           |               |                                                                                                                                                 |       |       | PP   | 21  | 04 |      |                                             |
| 10            | SHILLONG                                                                                                                      | Z     | eP    | 11 | 01 | 11 | 170   | Slight. Compression              |               |                                                                                                                                                 |       | N, E  | iS   | 27  | 32 |      |                                             |
|               |                                                                                                                               |       | iP*   | 01 | 12 |    |       |                                  |               |                                                                                                                                                 |       |       | PS   | 27  | 51 |      |                                             |
|               |                                                                                                                               |       | Pg    | 01 | 14 |    |       |                                  |               |                                                                                                                                                 |       |       | PPS  | 28  | 07 |      |                                             |
|               |                                                                                                                               |       | PP    | 01 | 19 |    |       |                                  |               |                                                                                                                                                 |       |       | E    | SS  | 31 | 33   |                                             |
|               |                                                                                                                               |       | PPP   | 01 | 24 |    |       |                                  |               |                                                                                                                                                 |       |       |      | SSS | 34 | 16   |                                             |
|               |                                                                                                                               |       | iS/S* | 01 | 32 |    |       |                                  |               | 10 SHILLONG                                                                                                                                     | Z     | iP    | 13   | 27  | 49 |      | Slight. Rarefaction                         |
|               |                                                                                                                               |       | Sg    | 01 | 34 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | SS    | 01 | 42 |    |       |                                  |               | 10 SHILLONG                                                                                                                                     | Z     | iP    | 13   | 52  | 33 |      | Slight. Rarefaction                         |
| 10            | SHILLONG                                                                                                                      | Z     | iP    | 13 | 27 | 49 |       | Slight. Rarefaction              |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 10            | SHILLONG                                                                                                                      | Z     | iP    | 13 | 52 | 33 |       | Slight. Rarefaction              |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 10            | SHILLONG                                                                                                                      | Z     | iP    | 14 | 46 | 27 |       | Slight. Rarefaction              |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 11            | SHILLONG                                                                                                                      | Z     | iPg   | 00 | 04 | 53 |       | Slight, local Compression        |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 11            | SHILLONG                                                                                                                      | Z     | eP    | 09 | 01 | 44 | 370   | Slight                           |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | P*    | 01 | 50 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | Pg    | 01 | 53 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | S     | 02 | 23 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | iSg   | 02 | 39 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               | COLOMBO                                                                                                                       | E     | e     | 09 | 20 | 35 |       | Trace overlapping                |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | e     | 25 | 15 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 11            | SHILLONG                                                                                                                      | Z     | iP    | 11 | 35 | 38 |       | Slight. Compression              |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 11            | SHILLONG                                                                                                                      | Z     | iS*   | 11 | 52 | 28 | 200   | Slight. Compression              |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | Sg    | 52 | 54 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | Sg    | 52 | 56 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
| 11            | SHILLONG                                                                                                                      | Z     | eP    | 15 | 19 | 25 | 230   | Slight                           |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | P*    | 19 | 27 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | Pg    | 19 | 30 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | PPP   | 19 | 36 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | S     | 19 | 53 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | iSg   | 19 | 58 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       | SSS   | 20 | 16 |    |       |                                  |               |                                                                                                                                                 |       |       |      |     |    |      |                                             |
|               |                                                                                                                               |       |       |    |    |    |       |                                  |               | 12 SHILLONG                                                                                                                                     | Z     | e     | 10   | 53  | 46 |      | Slight                                      |



| DATE          | STATION                                                                                                         | COMPT            | PHASE                                              | G. M. T.                                        | Δ     | REMARKS                             | DATE          | STATION                                                                                                                               | COMPT     | PHASE                                      | G. M. T.                                     | Δ   | REMARKS                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------|-------------------------------------------------|-------|-------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|----------------------------------------------|-----|---------------------------------------------------------------------|
|               |                                                                                                                 |                  |                                                    | h. m. s.                                        | km    |                                     |               |                                                                                                                                       |           |                                            | h. m. s.                                     | km  |                                                                     |
| November 1955 |                                                                                                                 |                  |                                                    |                                                 |       |                                     | November 1955 |                                                                                                                                       |           |                                            |                                              |     |                                                                     |
| 15            | DEHRA DUN                                                                                                       | N, E             | eP                                                 | 22 14 28                                        | 1860  | Slight. Phases not clear            | 18            | SHILLONG                                                                                                                              | Z         | iP<br>iSg                                  | 15 05 20<br>05 52                            | 240 | Slight                                                              |
| Contd.        |                                                                                                                 | N                | iS                                                 | 17 35                                           |       |                                     |               |                                                                                                                                       |           |                                            |                                              |     |                                                                     |
|               |                                                                                                                 |                  | i                                                  | 18 52                                           |       |                                     |               | BOKARO                                                                                                                                | N, E      | eP<br>iS<br>M                              | 15 07 52<br>08 27<br>08 48                   | 330 | Slight                                                              |
|               | CHATRA                                                                                                          | E                | eP<br>iS                                           | 22 14 59<br>17 11                               | 1290  | Slight                              |               | DEHRA DUN                                                                                                                             | N, E      | e                                          | 15 09 23<br>09 57<br>11 51                   |     | Feeble. Phases not clear                                            |
|               | SHILLONG                                                                                                        | Z                | iP<br>eS                                           | 22 15 12<br>18 34                               | 2070  | Slight                              |               | 18 BOMBAY                                                                                                                             | E         | e                                          | 17 55 --                                     |     |                                                                     |
|               | BOKARO                                                                                                          | N, E             | iP<br>iS<br>Lq<br>M                                | 22 15 29<br>19 23<br>19 34<br>22 45             | 2390  | Slight                              |               | 19 DEHRA DUN                                                                                                                          | N, E      | e                                          | 08 06 02                                     |     | Tremor                                                              |
|               | POONA                                                                                                           | Z                | eP                                                 | 22 16 41                                        |       | Very feeble shock. Phases not clear |               | 19 DEHRA DUN                                                                                                                          | N, E      | e                                          | 11 21 11                                     |     | Tremor                                                              |
|               | BOMBAY                                                                                                          | E<br>N<br>E      | eS<br>e<br>e                                       | 22 21 30<br>21 40<br>25 58                      |       | P <sup>o</sup> phases lost Slight.  |               | 19 DEHRA DUN                                                                                                                          | N, E      | e                                          | 12 19 55                                     |     | Tremor                                                              |
| 16            | SHILLONG                                                                                                        | Z                | eP                                                 | 05 26 57                                        |       | Slight                              |               | 19 CHATRA                                                                                                                             | E         | iP<br>iS                                   | 18 55 42<br>55 52                            | 70  | Slight                                                              |
| 16            | SHILLONG                                                                                                        | Z                | eP                                                 | 06 47 08                                        |       | Slight                              |               | 19 DEHRA DUN                                                                                                                          | N, E      | e                                          | 22 50 47                                     |     | Tremor                                                              |
| 16            | SHILLONG                                                                                                        | Z                | eP                                                 | 09 24 58                                        |       | Slight                              |               | 20 DEHRA DUN                                                                                                                          | N, E      | e<br>i                                     | 06 13 55<br>14 23                            |     | Feeble. Phases not clear.                                           |
| 16            | SHILLONG                                                                                                        | Z                | iP                                                 | 14 45 04                                        |       | Slight                              |               | 21 SHILLONG                                                                                                                           | Z         | eP                                         | 16 47 32                                     |     | Slight                                                              |
| 18            | SHILLONG                                                                                                        | Z                | iP<br>P <sup>o</sup><br>Pg<br>S <sup>o</sup><br>Sg | 15 21 46<br>21 48<br>21 54<br>22 11<br>22 12    | 190   | Slight                              |               | 22 SHILLONG                                                                                                                           | Z         | eP<br>PP<br>Pg<br>Sg                       | 00 03 21<br>03 26<br>03 32<br>04 04          | 300 | Slight                                                              |
| 16            | SHILLONG                                                                                                        | Z                | eP                                                 | 20 22 31                                        |       | Slight                              |               | 22 SHILLONG                                                                                                                           | Z         | eP                                         | 00 21 25                                     |     | Slight                                                              |
|               | DEHRA DUN                                                                                                       | N, E             | e                                                  | 20 25 17                                        |       | Tremor                              |               | 22 POONA                                                                                                                              | N, E      | eP                                         | 02 44 11                                     |     | Slight. Phases not clear                                            |
| 17            | SHILLONG                                                                                                        | Z                | eP                                                 | 00 04 41                                        |       | Slight                              |               | 22 DEHRA DUN                                                                                                                          | N, E      | e<br>i                                     | 03 06 01<br>06 30                            |     | Feeble. Phases not clear                                            |
| 17            | CHATRA                                                                                                          | E                | e                                                  | 01 34 37                                        |       | Surface waves                       |               | 22 SHILLONG                                                                                                                           | Z<br>E    | eP<br>iP                                   | 03 43 51<br>43 54                            |     | Slight<br>Compression                                               |
| 17            | SHILLONG                                                                                                        | Z                | eP                                                 | 03 55 03                                        |       | Slight                              |               | CHATRA                                                                                                                                | E         | i                                          | 03 44 00                                     |     | Slight                                                              |
| 17            | SHILLONG                                                                                                        | Z                | iPg<br>iSg                                         | 04 12 49<br>12 52                               | 20    | Slight                              |               | BOMBAY                                                                                                                                | E         | e<br>e<br>e<br>e                           | 03 44 09<br>48 47<br>58 05<br>04 06 03       |     | Moderate, distant Phases not clear                                  |
| 17            | Epc: 26°S, 69°W. Northern Chile<br>- H = 06h 53m 27s (U.S.C.G.S)<br>Magnitude = 6.4 (Pasadena), 6.5 (Takubaya). |                  |                                                    |                                                 |       |                                     |               | KODAIKANAL                                                                                                                            | E         | e                                          | 03 44 36                                     |     | Slight, tremor Phases not clear                                     |
|               | COLOMBO                                                                                                         | E                | PKP<br>M                                           | 07 13 08<br>08 11 20                            |       | Amp. = 0.7 mm                       | 22            | SHILLONG                                                                                                                              | Z         | iP<br>i                                    | 05 12 25<br>12 44                            |     | Slight, near Compression.                                           |
|               | POONA                                                                                                           | Z, N             | ePKP                                               | 07 13 09                                        |       | Phases not clear                    | 22            | SHILLONG                                                                                                                              | Z         | e                                          | 07 38 09                                     |     | Tremor                                                              |
|               | BOMBAY                                                                                                          | N<br>E<br>E<br>N | ePKP1<br>iPKP1<br>i<br>eSS<br>M                    | 07 13 09<br>16 28<br>35 35<br>08 13 --<br>14 29 | 16310 | Per. = 21 secs<br>Δ = 7             | 22            | SHILLONG                                                                                                                              | Z         | i                                          | 15 17 11                                     |     | Slight, local.                                                      |
|               | KODAIKANAL                                                                                                      | E                | e                                                  | 07 13 20                                        |       |                                     | 22            | SHILLONG                                                                                                                              | Z         | iP                                         | 17 16 17                                     |     | Slight. Rarefaction                                                 |
|               | HYDERABAD                                                                                                       | E                | e<br>M                                             | 07 13 23<br>08 13 36                            |       | Per. = 20 Secs<br>Δ = 7             | 22            | SHILLONG                                                                                                                              | Z         | iP                                         | 17 59 49                                     |     | Slight. Compression                                                 |
|               | DEHRA DUN                                                                                                       | N, E             | e<br>i<br>i                                        | 07 13 24<br>14 45<br>18 48                      |       | Phases not clear                    | 22            | SHILLONG                                                                                                                              | Z         | i<br>i                                     | 18 45 06<br>45 51                            |     | Slight, near. Compression                                           |
|               | SHILLONG                                                                                                        | Z                | ePKP<br>i<br>e<br>e                                | 07 13 30<br>14 22<br>18 00<br>23 50             |       |                                     | 22            | SHILLONG                                                                                                                              | Z         | iP                                         | 20 59 11                                     |     | Slight. Rarefaction                                                 |
|               | CHATRA                                                                                                          | E                | e                                                  | 07 13 37                                        |       |                                     | 23            | SHILLONG                                                                                                                              | Z         | e<br>i                                     | 02 17 52<br>17 54                            |     | Slight. Probably near.                                              |
| 17            | SHILLONG                                                                                                        | Z                | eP                                                 | 22 53 57                                        |       | Slight                              | 23            | Epc: 27°N, 91°E. In Bhutan.<br>- H = 02h 33m 30s (Shillong)<br>26°N, 90°E. H = 02h 33m 47s (U.S.C.G.S)<br>Magnitude = 5.1 (Shillong). |           |                                            |                                              |     |                                                                     |
| 17            | SHILLONG                                                                                                        | Z                | eP                                                 | 22 03 12                                        |       | Slight                              |               | SHILLONG                                                                                                                              | Z, E<br>E | iP<br>Pg<br>PP<br>i<br>S/Sg/P <sup>o</sup> | 02 34 15<br>34 17<br>34 22<br>34 32<br>34 37 | 160 | Compression<br>Ground movement<br>East<br>Per. = 1.5 secs<br>Δ = 55 |
| 18            | DEHRA DUN                                                                                                       | N, E             | e                                                  | 07 12 41                                        |       | Tremor                              |               | CHATRA                                                                                                                                | E         | eP<br>iS                                   | 02 34 44<br>35 30                            | 430 |                                                                     |



| DATE          | STATION   | COMPT | PHASE          | G. M. T. | Δ    | REMARKS                             | DATE          | STATION   | COMPT           | PHASE           | G. M. T. | Δ        | REMARKS                        |
|---------------|-----------|-------|----------------|----------|------|-------------------------------------|---------------|-----------|-----------------|-----------------|----------|----------|--------------------------------|
|               |           |       |                | h. m. s. | km   |                                     |               |           |                 |                 | h. m. s. | km       |                                |
| November 1955 |           |       |                |          |      |                                     | November 1955 |           |                 |                 |          |          |                                |
| 24            | BOMBAY    | N     | eP             | 05 00 14 |      | Slight. Phases not very clear       | 26            | SHILLONG  | Z               | i               | 19 08 36 |          | Slight, local Rarefaction.     |
| Contd.        |           | E     | e              | 01 45    |      |                                     |               |           |                 | i               | 08 45    |          |                                |
|               |           |       | e              | 10 02    |      |                                     |               | 26        | SHILLONG        | Z               | iP       | 21 34 04 |                                |
|               | COLOMBO   | E     | e              | 05 12 00 |      |                                     | 27            | SHILLONG  | Z               | i               | 10 04 41 |          | Slight                         |
|               |           |       | e              | 17 20    |      |                                     | 27            | SHILLONG  | Z               | e               | 11 15 05 |          | Slight                         |
| 24            | SHILLONG  | E     | iP             | 05 07 57 |      | Slight. Ground movement West        | 27            | SHILLONG  | Z               | iP              | 11 55 04 |          | Slight. Compression            |
| 24            | SHILLONG  | Z     | P              | 06 31 10 | 220  | Slight. Rarefaction                 | 27            | SHILLONG  | Z               | iP              | 17 25 26 |          | Slight. Rarefaction            |
|               |           |       | P <sub>e</sub> | 31 12    |      |                                     |               |           |                 |                 |          |          |                                |
|               |           |       | P <sub>g</sub> | 31 15    |      |                                     |               |           |                 |                 |          |          |                                |
|               |           |       | PP             | 31 18    |      |                                     |               |           |                 |                 |          |          |                                |
|               |           |       | S              | 31 38    |      |                                     |               |           |                 |                 |          |          |                                |
|               |           |       | S <sub>e</sub> | 31 41    |      |                                     |               |           |                 |                 |          |          |                                |
|               |           |       | S <sub>g</sub> | 31 44    |      |                                     |               |           |                 |                 |          |          |                                |
| 24            | SHILLONG  | Z     | iP             | 11 20 05 |      | Slight. Rarefaction                 |               | SHILLONG  | Z               | iP              | 19 36 41 |          | Slight. Other phases not clear |
|               | POONA     | Z     | iP             | 11 21 55 |      | Tremor                              |               | CHATRA    | E               | iP              | 19 37 15 | 3730     | Slight                         |
|               |           |       | e              | 42 37    |      |                                     |               |           |                 | e               | 42 37    |          |                                |
| 24            | DEHRA DUN | N, E  | e              | 22 24 34 |      | Feeble. Phases not clear.           | DEHRA DUN     | N, E      | eP              | 19 38 25        | 4590     |          | Slight. Other phases not clear |
|               |           |       | i              | 26 01    |      |                                     |               |           | iS              | 44 40           |          |          |                                |
| 24            | SHILLONG  | Z     | iP             | 22 26 54 |      | Slight. Compression                 |               |           | PPS             | 45 03           |          |          |                                |
|               |           |       |                |          |      |                                     |               |           | Lq              | 47 53           |          |          |                                |
| 25            | DEHRA DUN | N, E  | e              | 02 59 08 |      | Tremor                              |               |           | SSS             | 48 19           |          |          |                                |
|               |           |       |                |          |      |                                     |               |           | M               | 53 09           |          |          |                                |
| 25            | SHILLONG  | Z     | iP             | 08 41 29 |      | Slight. Compression                 | POONA         | Z         | eP              | 19 39 10        |          |          | Tremor                         |
|               | POONA     | Z     | e              | 08 43 38 |      | Tremor                              | BOMBAY        | E         | eP              | 19 39 21        | 5210     |          | Slight                         |
|               |           |       |                |          |      |                                     |               |           | eS              | 46 12           |          |          |                                |
| 25            | BOKARO    | N     | i              | 10 02 57 |      | Feeble                              | COLOMBO       | E         | e               | 19 44 20        |          |          |                                |
|               |           |       |                |          |      |                                     |               |           | e               | 48 50           |          |          |                                |
| 25            | SHILLONG  | Z     | i              | 10 26 58 |      | Slight, local                       |               |           | e               | 56 --           |          |          |                                |
|               |           |       | i              | 26 59    |      |                                     |               |           | e               | 20 01 05        |          |          |                                |
|               |           |       | i              | 27 12    |      |                                     |               |           |                 |                 |          |          |                                |
| 25            | BOKARO    | N     | i              | 10 30 27 |      | Feeble                              | 27            | SHILLONG  | Z               | e               | 21 36 27 |          | Slight                         |
|               |           |       |                |          |      |                                     |               |           | iP              | 36 34           |          |          | Rarefaction                    |
| 25            | BOKARO    | N     | e              | 10 36 21 |      | Feeble                              | 29            | SHILLONG  | Z               | e               | 04 03 46 |          | Slight                         |
| 25            | BOKARO    | N     | e              | 10 39 27 |      | Feeble                              | 29            | SHILLONG  | Z               | e               | 05 39 02 |          | Slight                         |
| 25            | BOKARO    | N     | e              | 10 46 25 |      | Feeble                              | 29            | SHILLONG  | Z               | iP              | 09 42 12 |          | Slight. Compression            |
| 25            | SHILLONG  | Z     | e              | 11 32 05 |      | Slight, near                        | 29            | SHILLONG  | Z               | e               | 10 53 13 |          | Slight                         |
|               |           |       | i              | 32 40    |      |                                     | 29            | SHILLONG  | Z               | i               | 11 17 55 |          | Slight. Rarefaction            |
| 25            | BOKARO    | N     | i              | 11 59 33 |      | Feeble                              | 29            | SHILLONG  | Z               | e               | 16 26 20 |          | Slight                         |
|               |           |       | e              | 12 01 18 |      |                                     | 29            | SHILLONG  | Z               | iP <sub>g</sub> | 17 10 23 | 10       | Slight                         |
|               |           |       | e              | 04 25    |      |                                     |               |           | iS <sub>g</sub> | 10 24           |          |          |                                |
| 25            | BOKARO    | N     | e              | 12 17 02 |      | Feeble                              | 29            | SHILLONG  | Z               | i               | 17 29 33 |          | Slight, near.                  |
|               |           |       |                |          |      |                                     |               |           | i               | 29 47           |          |          |                                |
| 25            | SHILLONG  | Z     | iP             | 15 29 10 |      | Slight. Compression                 | 29            | SHILLONG  | Z               | iP              | 20 25 45 |          | Slight. Rarefaction            |
| 26            | SHILLONG  | Z     | e              | 06 14 31 |      | Tremor. Beginning uncertain.        | 29            | SHILLONG  | Z               | i               | 20 34 28 |          | Slight. Near. Rarefaction      |
|               |           |       |                |          |      |                                     |               |           | i               | 34 33           |          |          |                                |
|               |           |       |                |          |      |                                     |               |           | e               | 35 01           |          |          |                                |
| 26            | DEHRA DUN | N, E  | e              | 08 00 59 |      | Slight. Phases not clear            | 30            | SHILLONG  | Z               | e               | 00 23 10 |          | Slight                         |
|               |           | N     | i              | 02 38    |      |                                     | 30            | DEHRA DUN | N, E            | e               | 00 43 57 |          | Tremor                         |
|               |           |       | i              | 02 59    |      |                                     | 30            | SHILLONG  | Z               | e               | 03 53 27 |          | Slight, near                   |
|               |           |       | i              | 04 03    |      |                                     | 30            | SHILLONG  | Z               | e               | 05 41 40 |          | Slight. Rarefaction            |
|               |           |       | i              | 05 52    |      |                                     | 30            | SHILLONG  | Z               | e               | 05 56 47 |          | Slight                         |
|               |           |       | i              | 06 38    |      |                                     | 30            | SHILLONG  | Z               | iP              | 07 55 52 | 190      | Slight                         |
|               | CHATRA    | E     | iP             | 08 01 03 | 3920 | Slight                              |               |           | PP              | 55 59           |          |          |                                |
|               |           |       | iS             | 06 37    |      |                                     |               |           | iS <sub>g</sub> | 56 16           |          |          |                                |
|               | POONA     | Z     | eP             | 08 01 19 |      | Very feeble. Phases not clear       |               |           | SS              | 56 24           |          |          |                                |
|               |           | Z, E  | e              | 03 43    |      |                                     |               |           | SSS             | 56 36           |          |          |                                |
|               | BOMBAY    | E     | e              | 08 01 28 |      | May be artificial disturbance       | 30            | BOKARO    | N               | i               | 08 52 45 |          | Slight                         |
|               |           |       | e              | 03 51    |      |                                     | 30            | SHILLONG  | Z               | e               | 10 43 04 |          | Slight, near                   |
|               | SHILLONG  | Z     | iP             | 08 03 26 |      | Slight. Rarefaction                 |               |           | e               | 43 37           |          |          |                                |
| 26            | BOKARO    | N     | e              | 09 04 46 |      | Slight                              | 30            | BOKARO    | N               | i               | 10 59 17 |          | Feeble                         |
|               |           |       | i              | 08 22    |      |                                     | 30            | BOKARO    | N               | e               | 11 03 21 |          | Feeble                         |
| 26            | SHILLONG  | Z     | iP             | 10 01 36 |      | Slight. compression. Probably near. |               |           |                 |                 |          |          |                                |
| 26            | SHILLONG  | Z     | iP             | 13 37 04 |      | Slight. Compression                 |               |           |                 |                 |          |          |                                |
|               | DEHRA DUN | N, E  | e              | 13 37 34 |      | Tremor                              |               |           |                 |                 |          |          |                                |
| 26            | SHILLONG  | Z     | e              | 17 58 51 |      | Tremor. Beginning uncertain.        |               |           |                 |                 |          |          |                                |



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| DATE          | STATION  | COMPT | PHASE | G. M. T.<br>h. m. s. | $\Delta$<br>km | REMARKS                         |
|---------------|----------|-------|-------|----------------------|----------------|---------------------------------|
| November 1955 |          |       |       |                      |                |                                 |
| 30            | BOKARO   | N     | e     | 11 05 32             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 12 23             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 16 27             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 19 27             |                | Feeble                          |
|               |          |       | e     | 19 42                |                |                                 |
|               |          |       | i     | 20 46                |                |                                 |
| 30            | BOKARO   | N     | i     | 11 23 39             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 25 32             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 31 55             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 11 58 34             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 12 26 09             |                | Feeble                          |
| 30            | BOKARO   | N     | i     | 12 30 18             |                | Feeble                          |
| 30            | SHILLONG | Z     | i     | 15 02 40             |                | Slight, near.<br>Compression    |
| 30            | SHILLONG | Z     | iP    | 15 06 18             |                | Slight, near. Compression.      |
| 30            | SHILLONG | Z     | e     | 17 11 40             |                | Feeble                          |
| 30            | SHILLONG | Z     | iP    | 17 26 54             |                | Slight, distant.<br>Compression |
| 30            | SHILLONG | Z     | e     | 21 15 46             |                | Feeble                          |
| 30            | SHILLONG | Z     | e     | 22 05 24             |                | Slight, near.                   |
|               |          |       | i     | 06 22                |                |                                 |

### Earthquake Reports (Non Instrumental Reports)

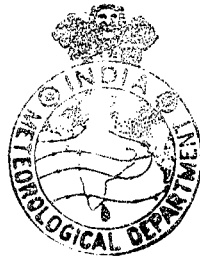
The following table contains a list of earthquakes that were reported by voluntary observers from various stations during the month of November 1955.

| PLACE AT WHICH FELT | DATE IN G. M. T. | TIME IN G. M. T.<br>h. m. | DURATION IN SECS. | INTENSITY IN R.F. SCALE | NO. OF SHOCKS | REMARKS |
|---------------------|------------------|---------------------------|-------------------|-------------------------|---------------|---------|
| SHILLONG            | 06               | 12 15                     | 5                 | III                     | 2             | -       |
| SHILLONG            | 10               | 15 04                     | 2                 | IV                      | 1             | -       |
| SHILLONG            | 17               | 04 12                     | 3                 | V                       | 1             | -       |
| NORTH LAKHIMPUR     | 18               | 15 06                     | 3                 | IV                      | 1             | -       |
| SHILLONG            | 23               | 02 34                     | 3                 | IV                      | 1             | -       |
| BARJHAR (GAUHATI)   | 23               | 02 35                     | 3                 | V                       | 1             | -       |



GOVERNMENT OF INDIA  
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN



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*Shri S. Basu, M.Sc., F.N.I.,*  
Director General of Observatories

## Instruments and their constants

| STATION    | INSTRUMENTS                      | COMPONENT | PERIOD<br>IN<br>SECOND | STATIC<br>MAGNIFICA-<br>TION | DAMPING RATIO | PAPER SPEED<br>IN<br>mm/min. |
|------------|----------------------------------|-----------|------------------------|------------------------------|---------------|------------------------------|
| BOKARO     | Wood-Anderson                    | E         | 0.8                    | 960                          | 0.8           |                              |
|            | Wood-Anderson                    | N         | 0.8                    | 1000                         | 0.8           |                              |
|            | Milne-Shaw                       | N         | 12.0                   | 250                          | 20:1          | 16.0                         |
|            | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 16.0                         |
| BOMBAY     | Milne-Shaw                       | N         | 12.0                   | 350                          | 30:1          | 16.0                         |
|            | Milne-Shaw                       | E         | 12.0                   | 350                          | 3:1           | 8.0                          |
|            | Sprengnether<br>Microseismograph | E         | 7.0                    |                              |               | 30.0                         |
| CHATRA     | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 16                           |
|            | Benioff Vertical                 | Z         | To=0.72<br>Tg=0.45     |                              | Critical      | 60                           |
|            | Wood-Anderson                    | E         | 1.0                    | 1000                         | 30:1          | 60                           |
| COLOMBO    | Milne-Shaw                       | E         | 12.0                   | 250                          | 20:1          | 8.0                          |
| DEHKA DUN  | Wood-Anderson                    | N         | 0.8                    | 800                          | 60:1          | 60                           |
|            | Wood-Anderson                    | E         | 0.8                    | 950                          | 60:1          | 60                           |
|            | Milne-Shaw                       | N         | 12.0                   | 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=7.3              |                              |               | 30                           |
| NEW DELHI  | Milne-Shaw                       | N         | 12                     | 320                          | 20:1          | 8                            |
|            | Wood-Anderson                    | N         | 4                      | 900                          | 20:1          | 16                           |
|            | Wood-Anderson                    | E         | 2                      | 1770                         | 30:1          | 60                           |
|            | Omari-Ewing                      | E         | 30                     | 30                           | 1             | 12                           |
| POONA      | Sprengnether<br>Vertical         | Z         | To=Tg=1.5              |                              |               | 30                           |
| SHILLONG   | Milne-Shaw                       | N         | 12.0                   | 250                          | 20:1          | 8                            |
|            | Wood-Anderson                    | E         | To = 1.0               | 1100                         | 20:1          | 16                           |
|            | Benioff Vertical                 | Z         | Tg = 0.18              |                              |               | 60                           |
|            | Sprengnether                     | E         | To = Tg = 7.6          |                              |               | 30                           |
|            | Milne-Shaw                       | N         | 12                     | 250                          | 20:1          | 8                            |
|            | Wood-Anderson                    | E         | 0.8                    | 1000                         | Critical      | 30                           |
|            | Wood-Anderson                    | N         | 0.8                    | 1000                         | Critical      | 30                           |



| DATE          | STATION                                                                                                                                                                                                           | COMPT | PHASE | G. M. T. | Δ     | REMARKS                   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|-------|---------------------------|
|               |                                                                                                                                                                                                                   |       |       | h. m. s. | km    |                           |
| December 1955 |                                                                                                                                                                                                                   |       |       |          |       |                           |
| 05            | SHILLONG                                                                                                                                                                                                          | Z     | e     | 21 48 45 |       | Slight                    |
| 06            | Epc: 20°S, 70°W. Northern Chile<br>H = 04h 31m 00s (U.S.C.G.S)<br>Magnitude: 6% (Pasadena), 6.5 (Takubaya), 6.3 (Roma).                                                                                           |       |       |          |       |                           |
|               | BOMBAY                                                                                                                                                                                                            | E     | iPKP  | 04 50 39 | 16770 |                           |
|               |                                                                                                                                                                                                                   |       | e     | 54 13    |       |                           |
|               |                                                                                                                                                                                                                   |       | e     | 57 23    |       |                           |
|               |                                                                                                                                                                                                                   |       | e     | 05 04 23 |       |                           |
|               |                                                                                                                                                                                                                   |       | eSS   | 13 47    |       |                           |
|               |                                                                                                                                                                                                                   |       | M     | 51 --    |       |                           |
|               | POONA                                                                                                                                                                                                             | Z     | ePKP  | 04 50 52 |       | Phases not clear          |
|               | HYDERABAD                                                                                                                                                                                                         | E     | iPKP  | 04 50 52 | 15870 | Ground movement East      |
|               |                                                                                                                                                                                                                   |       | PKS   | 54 19    |       |                           |
|               |                                                                                                                                                                                                                   |       | PS    | 05 04 49 |       |                           |
|               |                                                                                                                                                                                                                   |       | Lq    | 31 25    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lr    | 32 10    |       |                           |
|               |                                                                                                                                                                                                                   |       | M     | 53 38    |       | Per.: 15 secs<br>Δ = 5    |
|               | DEHRA DUN                                                                                                                                                                                                         | N,E   | e     | 04 50 57 |       | Phases not clear          |
|               | SHILLONG                                                                                                                                                                                                          | Z     | e     | 04 51 04 |       | Rarefaction               |
| 06            | SHILLONG                                                                                                                                                                                                          | Z     | iP    | 06 10 50 |       | Slight Compression        |
| 06            | SHILLONG                                                                                                                                                                                                          | Z     | e     | 10 39 38 |       | Slight Compression        |
| 06            | SHILLONG                                                                                                                                                                                                          | Z     | iP    | 13 30 28 |       | Slight (weak) Compression |
| 06            | POONA                                                                                                                                                                                                             | Z     | iP    | 18 27 29 |       | Slight Phases not clear   |
|               |                                                                                                                                                                                                                   |       | e     | 30 47    |       |                           |
|               |                                                                                                                                                                                                                   |       | i     | 31 50    |       |                           |
|               | BOMBAY                                                                                                                                                                                                            | E     | eP    | 18 27 41 | 2170  | Slight                    |
|               |                                                                                                                                                                                                                   |       | eS    | 31 15    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lq    | 31 27    |       |                           |
|               |                                                                                                                                                                                                                   |       | SSS   | 31 57    |       |                           |
| 06            | SHILLONG                                                                                                                                                                                                          | Z     | iP    | 19 28 27 |       | Slight Rarefaction        |
| 07            | SHILLONG                                                                                                                                                                                                          | Z,E   | iP    | 06 28 29 | 110   | Slight Compression        |
|               |                                                                                                                                                                                                                   | Z     | iPg   | 28 31    |       |                           |
|               |                                                                                                                                                                                                                   |       | PP    | 28 36    |       |                           |
|               |                                                                                                                                                                                                                   |       | PPP   | 28 41    |       |                           |
|               |                                                                                                                                                                                                                   |       | iSg   | 28 45    |       |                           |
|               |                                                                                                                                                                                                                   |       | SS    | 28 51    |       |                           |
|               |                                                                                                                                                                                                                   |       | SSS   | 29 08    |       |                           |
| 07            | SHILLONG                                                                                                                                                                                                          | Z     | e     | 08 15 01 |       | Slight Compression        |
| 07            | Epc: 27.5°N, 143°E. Bonin Islands<br>H = 15h 03m 14s (Shillong)<br>26°N, 142°E. H = 15h 03m 11s (U.S.C.G.S & BCIS)<br>26°N, 143°E. H = 15h 03m 10s (CMO Japan)<br>Magnitude: 7 (Uppsala), 6.7 (Kiruna, Pasadena). |       |       |          |       |                           |
|               | SHILLONG                                                                                                                                                                                                          | Z,N,E | iP    | 15 11 32 | 4920  | Compression               |
|               |                                                                                                                                                                                                                   | N,E   | PP    | 13 32    |       |                           |
|               |                                                                                                                                                                                                                   |       | PPP   | 13 59    |       |                           |
|               |                                                                                                                                                                                                                   |       | iS    | 18 07    |       |                           |
|               |                                                                                                                                                                                                                   |       | PS    | 18 25    |       |                           |
|               |                                                                                                                                                                                                                   |       | SS    | 20 58    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lq    | 21 51    |       |                           |
|               |                                                                                                                                                                                                                   |       | SSS   | 22 06    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lr    | 23 51    |       |                           |
|               |                                                                                                                                                                                                                   |       | M     | 27 27    |       | Per.: 22.5 secs<br>Δ = 44 |
|               | BOKARO                                                                                                                                                                                                            | N,E   | iP    | 15 12 14 | 5660  | Ground movement West      |
|               |                                                                                                                                                                                                                   |       | PP    | 14 10    |       |                           |
|               |                                                                                                                                                                                                                   |       | PPP   | 15 21    |       |                           |
|               |                                                                                                                                                                                                                   |       | iS    | 19 31    |       |                           |
|               |                                                                                                                                                                                                                   |       | PS    | 19 35    |       |                           |
|               |                                                                                                                                                                                                                   |       | PPS   | 19 44    |       |                           |
|               |                                                                                                                                                                                                                   |       | SS    | 23 23    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lq    | 24 34    |       |                           |
|               |                                                                                                                                                                                                                   |       | SSS   | 25 04    |       |                           |
|               |                                                                                                                                                                                                                   |       | Lr    | 27 19    |       |                           |
|               |                                                                                                                                                                                                                   |       | M     | 29 36    |       |                           |

| DATE          | STATION    | COMPT | PHASE | G. M. T. | Δ    | REMARKS                                   |
|---------------|------------|-------|-------|----------|------|-------------------------------------------|
|               |            |       |       | h. m. s. | km   |                                           |
| December 1955 |            |       |       |          |      |                                           |
| 07            | DEHRA DUN  | N,E   | eP    | 15 12 55 | 6210 |                                           |
|               | Contd.     | N     | PP    | 14 56    |      |                                           |
|               |            |       | PPP   | 16 06    |      |                                           |
|               |            |       | iS    | 20 42    |      |                                           |
|               |            |       | PS    | 20 53    |      |                                           |
|               |            |       | PPS   | 21 01    |      |                                           |
|               |            |       | SS    | 24 48    |      |                                           |
|               |            |       | SSS   | 26 13    |      |                                           |
|               |            |       | Lq    | 26 27    |      |                                           |
|               |            |       | Lr    | 29 12    |      |                                           |
|               |            |       | M     | 33 28    |      |                                           |
|               | NEW DELHI  | N     | eP    | 15 13 01 | 6310 |                                           |
|               |            |       | iS    | 20 54    |      |                                           |
|               |            |       | iScS  | 22 44    |      |                                           |
|               |            |       | SS    | 24 22    |      |                                           |
|               |            |       | L     | 30 05    |      |                                           |
|               |            |       | M     | 35 02    |      |                                           |
|               | HYDERABAD  | E     | iP    | 15 13 19 | 6790 | Ground movement West                      |
|               |            |       | PP    | 15 34    |      |                                           |
|               |            |       | PPP   | 17 17    |      |                                           |
|               |            |       | S     | 21 36    |      |                                           |
|               |            |       | SS    | 25 51    |      |                                           |
|               |            |       | L     | 33 09    |      |                                           |
|               |            |       | M     | 38 18    |      | Per.: 20 secs<br>Δ = 11                   |
|               | COCHIN     | E     | iP    | 15 13 30 | 6830 |                                           |
|               |            |       | PcP   | 13 54    |      |                                           |
|               |            |       | PP    | 17 06    |      |                                           |
|               |            |       | PcS   | 17 55    |      |                                           |
|               |            |       | iS    | 21 41    |      |                                           |
|               |            |       | PS    | 21 58    |      |                                           |
|               |            |       | PPS   | 22 08    |      |                                           |
|               |            |       | ScS   | 22 55    |      |                                           |
|               |            |       | Lq    | 28 50    |      |                                           |
|               |            |       | Lr    | 31 37    |      |                                           |
|               |            |       | M     | 36 51    |      |                                           |
|               | COLOMBO    | E     | P     | 15 13 37 | 7190 |                                           |
|               |            |       | S     | 22 17    |      |                                           |
|               |            |       | L     | 35 --    |      |                                           |
|               |            |       | M     | 43 39    |      | Amp.: 1.1 mm                              |
|               | POONA      | Z     | iP    | 15 13 43 | 7020 | Ground movement West & South. Compression |
|               |            | E     | PcP   | 14 04    |      |                                           |
|               |            |       | PP    | 16 07    |      |                                           |
|               |            |       | PPP   | 17 41    |      |                                           |
|               |            | N,E   | iS    | 22 14    |      |                                           |
|               |            | E     | PPS   | 22 37    |      |                                           |
|               |            | N     | ScS   | 23 31    |      |                                           |
|               |            |       | SSS   | 29 02    |      |                                           |
|               |            |       | Lq    | 29 52    |      |                                           |
|               |            |       | Lr    | 33 11    |      |                                           |
|               |            |       | M     | 38 41    |      |                                           |
|               | KODAIKANAL | E     | eP    | 15 13 48 | 7190 | Ground movement West                      |
|               |            |       | PP    | 16 07    |      |                                           |
|               |            |       | PPP   | 17 45    |      |                                           |
|               |            |       | S     | 22 28    |      |                                           |
|               |            |       | SS    | 26 41    |      |                                           |
|               |            |       | SSS   | 29 31    |      |                                           |
|               |            |       | Lq    | 30 39    |      |                                           |
|               |            |       | Lr    | 33 30    |      |                                           |
|               |            |       | M     | 38 57    |      | Per.: 22 secs<br>Δ = 13.2                 |
|               | BOMBAY     | E     | iP    | 15 13 49 | 7150 |                                           |
|               |            |       | PcP   | 14 23    |      |                                           |
|               |            | N     | e     | 14 55    |      |                                           |
|               |            |       | PP    | 16 08    |      |                                           |
|               |            |       | PPP   | 17 51    |      |                                           |
|               |            | N,E   | iS    | 22 27    |      |                                           |
|               |            | E     | PPS   | 23 05    |      |                                           |
|               |            | N,E   | i     | 26 03    |      |                                           |
|               |            | E     | SS    | 26 32    |      |                                           |
|               |            | N     | M     | 42 38    |      | Per.: 19 secs<br>Δ = 11                   |
|               |            | E     | M     | 43 32    |      | Per.: 21 secs<br>Δ = 8                    |
| 07            | SHILLONG   | Z     | eP    | 16 41 23 |      | Slight Compression                        |
|               |            |       | i     | 42 17    |      |                                           |
| 07            | SHILLONG   | Z     | e     | 19 15 19 |      | Slight Compression                        |

| DATE          | STATION                                                                                                                    | COMPT | PHASE | G. M. T. | Δ    | REMARKS                   | DATE          | STATION                                                                                                            | COMPT    | PHASE | G. M. T. | Δ        | REMARKS                 |                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|------|---------------------------|---------------|--------------------------------------------------------------------------------------------------------------------|----------|-------|----------|----------|-------------------------|--------------------|
|               |                                                                                                                            |       |       | h. m. s. | km   |                           |               |                                                                                                                    |          |       | h. m. s. | km       |                         |                    |
| December 1955 |                                                                                                                            |       |       |          |      |                           | December 1955 |                                                                                                                    |          |       |          |          |                         |                    |
| 07            | SHILLONG                                                                                                                   | Z     | iP    | 20 59 11 |      | Slight Rarefaction        | 09            | SHILLONG                                                                                                           | Z        | iP    | 23 06 35 | 180      | Slight Compression      |                    |
|               |                                                                                                                            |       | i     | 21 00 00 |      |                           |               |                                                                                                                    |          | Pg    | 06 36    |          |                         |                    |
| 07            | SHILLONG                                                                                                                   | Z     | iP    | 21 45 29 | 110  | Slight Rarefaction        |               |                                                                                                                    |          | PP    | 06 40    |          |                         |                    |
|               |                                                                                                                            |       | ePg   | 45 30    |      |                           |               |                                                                                                                    |          | Sg/S* | 06 56    |          |                         |                    |
|               |                                                                                                                            |       | iSg   | 45 44    |      |                           |               |                                                                                                                    |          | SS    | 07 05    |          |                         |                    |
|               |                                                                                                                            |       |       |          |      |                           |               |                                                                                                                    |          | SSS   | 07 15    |          |                         |                    |
| 07            | SHILLONG                                                                                                                   | Z     | e     | 22 25 38 |      | Slight Rarefaction        | 10            | DEHRA DUN                                                                                                          | N,E      | e     | 01 14 51 |          | Tremor                  |                    |
| 07            | SHILLONG                                                                                                                   | Z     | i     | 23 00 06 |      | Slight Rarefaction        | 10            | POONA                                                                                                              | Z        | e     | 04 01 10 |          | Tremor                  |                    |
| 08            | DEHRA DUN                                                                                                                  | N,E   | e     | 00 27 29 |      | Tremor                    | 10            | SHILLONG                                                                                                           | Z        | e     | 12 35 28 |          | Slight Rarefaction      |                    |
| 08            | SHILLONG                                                                                                                   | Z     | iP    | 02 14 32 |      | Slight Compression        | 10            | SHILLONG                                                                                                           | Z        | i     | 13 56 01 |          | Slight Compression      |                    |
| 08            | SHILLONG                                                                                                                   | Z     | i     | 02 43 14 |      | Slight Compression        |               |                                                                                                                    |          | i     | 56 19    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | iP    | 09 05 45 | 180  | Slight Rarefaction        |               |                                                                                                                    |          | i     | 56 25    |          |                         |                    |
|               |                                                                                                                            |       | P     | 05 46    |      |                           | 10            | SHILLONG                                                                                                           | Z        | e     | 19 01 57 |          | Slight Rarefaction      |                    |
|               |                                                                                                                            |       | Pg    | 05 48    |      |                           |               |                                                                                                                    |          | iP    | 20 53 50 | 220      | Slight Rarefaction      |                    |
|               |                                                                                                                            |       | PPP   | 05 58    |      |                           |               |                                                                                                                    |          | P*    | 53 51    |          |                         |                    |
|               |                                                                                                                            |       | S*    | 06 06    |      |                           |               |                                                                                                                    |          | Pg    | 52 56    |          |                         |                    |
|               |                                                                                                                            |       | Sg    | 06 09    |      |                           |               |                                                                                                                    |          | PPP   | 54 01    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | iP    | 14 27 15 |      | Slight Compression        |               |                                                                                                                    |          | S*    | 54 19    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | eP    | 16 14 49 |      | Slight Compression        |               |                                                                                                                    |          | Sg    | 54 23    |          |                         |                    |
| 08            | Epc: 4°S, 152°E, New Britain Region<br>- H = 17h 35m 00s (U.S.C.G.S.) - H = 500 KmCe<br>Magnitude = 6 1/4 Ca (Wellington). |       |       |          |      |                           |               | 10                                                                                                                 | SHILLONG | Z     | e        | 21 07 46 |                         | Slight Compression |
|               | SHILLONG                                                                                                                   | Z,N,E | iP    | 17 45 17 | 5590 | Compression               | 11            | SHILLONG                                                                                                           | Z        | i     | 03 45 13 |          | Slight Compression      |                    |
|               |                                                                                                                            |       | i     | 46 37    |      |                           |               |                                                                                                                    |          |       |          |          |                         |                    |
|               |                                                                                                                            |       | PP    | 48 51    |      |                           | 11            | Epc: 37°N, 71°E, Gladukush<br>- H = 05h 42m 38s (U.S.C.G.S. & C.I.S.)<br>37°N, 71.7°E - H = 05h 42m 32s (Shillong) |          |       |          |          |                         |                    |
|               |                                                                                                                            |       | PPP   | 49 32    |      |                           |               | DEHRA DUN                                                                                                          | N,E      | eP    | 05 44 41 | 550      | Slight                  |                    |
|               |                                                                                                                            |       | iS    | 54 05    |      |                           |               |                                                                                                                    | N        | PP    | 44 48    |          |                         |                    |
|               |                                                                                                                            |       | PS    | 54 18    |      |                           |               |                                                                                                                    |          | Lq    | 45 54    |          |                         |                    |
|               |                                                                                                                            |       | PPS   | 54 28    |      |                           |               |                                                                                                                    |          | iS    | 46 09    |          |                         |                    |
|               |                                                                                                                            |       | ScS   | 55 04    |      |                           |               |                                                                                                                    |          | SS    | 46 18    |          |                         |                    |
|               | DEHRA DUN                                                                                                                  | N,E   | eP    | 17 47 16 | 7830 | Other phases not clear    |               |                                                                                                                    |          | SSS   | 46 26    |          |                         |                    |
|               |                                                                                                                            | N     | PP    | 50 00    |      |                           |               |                                                                                                                    |          | Sg/M  | 46 53    |          |                         |                    |
|               |                                                                                                                            |       | iS    | 56 29    |      |                           |               | NEW DELHI                                                                                                          | N        | eP    | 05 44 53 | 1010     | Slight                  |                    |
|               |                                                                                                                            |       | PS    | 57 20    |      |                           |               |                                                                                                                    |          | iS    | 46 37    |          |                         |                    |
|               | POONA                                                                                                                      | Z     | iP    | 17 47 23 |      | Phases not clear          |               | BOMBAY                                                                                                             | N,E      | eP    | 05 46 45 | 2050     | Slight                  |                    |
|               |                                                                                                                            |       | e     | 49 00    |      |                           |               |                                                                                                                    |          | eS    | 50 09    |          |                         |                    |
|               |                                                                                                                            | N     | e     | 56 53    |      |                           |               |                                                                                                                    |          | e     | 50 45    |          |                         |                    |
|               | BOMBAY                                                                                                                     | E     | i     | 17 47 30 |      |                           |               |                                                                                                                    | E        | e     | 51 03    |          |                         |                    |
|               |                                                                                                                            |       | i     | 57 01    |      |                           |               | POONA                                                                                                              | Z        | eP    | 05 46 48 | 2070     | Slight                  |                    |
| 08            | SHILLONG                                                                                                                   | Z     | eP    | 18 45 11 | 100  | Rarefaction               |               |                                                                                                                    | N        | eS    | 50 13    |          |                         |                    |
|               |                                                                                                                            |       | Pg    | 45 12    |      |                           |               |                                                                                                                    |          | Lq    | 50 19    |          |                         |                    |
|               |                                                                                                                            |       | Sg    | 45 23    |      |                           |               |                                                                                                                    |          | SSS   | 50 50    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | i     | 19 52 34 |      | Slight Compression        |               |                                                                                                                    |          | Lr    | 51 09    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | iP    | 22 02 42 |      | Slight Rarefaction        |               |                                                                                                                    |          | M     | 52 40    |          |                         |                    |
| 08            | SHILLONG                                                                                                                   | Z     | eP    | 22 53 17 |      | Slight Compression        |               | SHILLONG                                                                                                           | Z,E      | iP    | 05 47 14 | 2280     | Slight Compression      |                    |
| 09            | SHILLONG                                                                                                                   | Z     | i     | 04 10 34 |      | Slight Rarefaction        |               |                                                                                                                    | E        | PP    | 47 32    |          |                         |                    |
| 09            | SHILLONG                                                                                                                   | Z,N,E | iP    | 08 32 55 | 310  | Slight, local Rarefaction |               |                                                                                                                    |          | PPP   | 47 50    |          |                         |                    |
|               |                                                                                                                            |       | PP    | 33 02    |      |                           |               |                                                                                                                    |          | iS    | 50 59    |          |                         |                    |
|               |                                                                                                                            |       | PPP   | 33 11    |      |                           |               |                                                                                                                    |          | i     | 51 05    |          |                         |                    |
|               |                                                                                                                            |       | Lq    | 33 19    |      |                           |               |                                                                                                                    |          | Lq    | 51 21    |          |                         |                    |
|               |                                                                                                                            |       | iS    | 33 29    |      |                           |               |                                                                                                                    |          | SS    | 51 26    |          |                         |                    |
|               |                                                                                                                            |       | Lr    | 33 33    |      |                           |               |                                                                                                                    |          | SSS   | 51 36    |          |                         |                    |
|               |                                                                                                                            |       | SS/M  | 33 43    |      |                           |               |                                                                                                                    |          | Lr    | 52 00    |          |                         |                    |
| 09            | DEHRA DUN                                                                                                                  | N,E   | e     | 08 38 34 |      | Tremor                    |               |                                                                                                                    |          |       |          |          |                         |                    |
| 09            | SHILLONG                                                                                                                   | Z     | e     | 11 02 23 |      | Slight Compression        |               |                                                                                                                    |          |       |          |          |                         |                    |
| 09            | SHILLONG                                                                                                                   | Z     | e     | 11 06 56 |      | Slight Rarefaction        |               |                                                                                                                    |          |       |          |          |                         |                    |
| 09            | SHILLONG                                                                                                                   | Z     | iP    | 17 39 00 |      | Slight Compression        |               |                                                                                                                    |          |       |          |          |                         |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | SHILLONG                                                                                                           | Z        | e     | 09 04 58 |          | Slight Rarefaction      |                    |
|               |                                                                                                                            |       |       |          |      |                           |               |                                                                                                                    |          | ii    | 05 07    |          |                         |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | SHILLONG                                                                                                           | Z        | iP    | 12 38 34 |          | Slight Rarefaction      |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | DEHRA DUN                                                                                                          | N,E      | e     | 13 27 50 |          | Tremor                  |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | SHILLONG                                                                                                           | Z        | e     | 13 28 22 |          | Slight Compression      |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | DEHRA DUN                                                                                                          | N,E      | e     | 15 08 31 |          | Feeble Phases not clear |                    |
|               |                                                                                                                            |       |       |          |      |                           | 11            | SHILLONG                                                                                                           | Z        | e     | 15 10 32 |          | Slight Rarefaction      |                    |







| DATE          | STATION                                                                                       | COMPT | PHASE | G. M. T. | Δ    | REMARKS                  | DATE | STATION   | COMPT | PHASE   | G. M. T. | Δ    | REMARKS                                       |
|---------------|-----------------------------------------------------------------------------------------------|-------|-------|----------|------|--------------------------|------|-----------|-------|---------|----------|------|-----------------------------------------------|
|               |                                                                                               |       |       | h. m. s. | km   |                          |      |           |       |         | h. m. s. | km   |                                               |
| December 1955 |                                                                                               |       |       |          |      |                          |      |           |       |         |          |      |                                               |
| 18            | DEHRA DUN                                                                                     | N,E   | eP    | 22 40 23 | 1990 | Slight.                  | 20   | BOMBAY    | N     | e       | 20 06 04 |      | Feeble                                        |
| Contd.        | N                                                                                             |       | iS    | 43 41    |      | Phases not clear         |      |           |       | e       | 09 10    |      |                                               |
|               |                                                                                               |       | SS    | 44 08    |      |                          | 20   | DEHRA DUN | N,E   | e       | 22 35 16 |      | Feeble. Phases not clear                      |
|               |                                                                                               |       | Lr    | 44 30    |      |                          |      |           |       | i       | 35 49    |      |                                               |
|               |                                                                                               |       | M     | 46 00    |      |                          | 21   | CHATRA    | Z     | eP      | 01 12 53 | 130  | Feeble                                        |
|               | POONA                                                                                         | Z     | eP    | 22 42 12 | 2130 | Slight                   |      |           |       | iS      | 13 10    |      |                                               |
|               | E                                                                                             |       | eS    | 45 43    |      |                          | 21   | CHATRA    | Z     | iP      | 11 42 14 | 500  | Feeble                                        |
|               |                                                                                               |       | SSS   | 46 20    |      |                          |      |           |       | iS      | 43 08    |      |                                               |
|               |                                                                                               |       | Lr    | 46 47    |      |                          | 21   | CHATRA    | Z     | ePg     | 12 52 01 | 70   | Feeble                                        |
|               |                                                                                               |       | M     | 48 20    |      |                          |      |           |       | iSg     | 52 11    |      |                                               |
|               |                                                                                               |       | PcS   | 49 40    |      |                          | 22   | CHATRA    | Z     | iP      | 03 43 30 | 780  | Slight                                        |
|               | MADRAS                                                                                        | E     | e     | 22 42 20 |      | Tremor                   |      |           |       | iS      | 44 51    |      |                                               |
|               | BOMBAY                                                                                        | N,E   | eP    | 22 42 24 | 2170 | Slight                   |      | SHILLONG  | Z     | eP      | 03 43 51 |      | Slight                                        |
|               | N                                                                                             |       | eS    | 45 58    |      |                          |      | E         |       | iP      | 43 54    |      | Compression                                   |
|               | E                                                                                             |       | iS    |          |      |                          |      |           |       |         |          |      |                                               |
|               | KODAIKANAL                                                                                    | E     | e     | 23 47 02 |      | Tremor                   |      | POONA     | Z     | e       | 03 49 13 |      | Very feeble Phases not clear                  |
| 19            | Epc: 8½°N, 127°E. Near East Coast of Midnao Island Philippines. - H = 03h 13m 46s (U.S.C.G.S) |       |       |          |      |                          |      | BOMBAY    | E     | eP      | 03 50 00 | 1950 | Slight                                        |
|               | 8.5°N, 127°E. H = 03h 13m 48s (B.C.I.S)                                                       |       |       |          |      |                          |      |           | N     | eP      | 50 04    |      |                                               |
|               | Magnitude = 6½ (Kiruna), 6 (Uppsala), 5.9 (Roma).                                             |       |       |          |      |                          |      |           | E     | PP      | 50 26    |      |                                               |
|               |                                                                                               |       |       |          |      |                          |      |           |       | e       | 51 44    |      |                                               |
|               | SHILLONG                                                                                      | Z     | eP    | 03 21 01 | 4220 |                          |      |           | N     | e       | 52 19    |      |                                               |
|               | E                                                                                             |       | eS    | 26 54    |      |                          |      |           | E     | eS      | 53 14    |      |                                               |
|               | BOKARO                                                                                        | E     | eP    | 03 21 34 | 4740 |                          |      |           | N     | eS      | 53 19    |      |                                               |
|               |                                                                                               |       | eS    | 27 58    |      |                          |      |           | E     | Lq      | 53 22    |      |                                               |
|               | MADRAS                                                                                        | E     | iP    | 03 22 18 | 5150 |                          |      | N,E       | SSS   | 53 50   |          |      |                                               |
|               |                                                                                               |       | PcP   | 23 36    |      |                          |      | N         | Lr    | 54 08   |          |      |                                               |
|               |                                                                                               |       | PP    | 24 04    |      |                          |      | E         | Lr    | 54 15   |          |      |                                               |
|               |                                                                                               |       | PPP   | 24 58    |      |                          |      | N         | M     | 55 40   |          |      | Per. = 9 secs                                 |
|               |                                                                                               |       | ScP   | 27 28    |      |                          |      |           |       |         |          |      | μ = 1                                         |
|               |                                                                                               |       | iS    | 29 06    |      |                          | 22   | SHILLONG  | Z     | iP      | 05 12 25 |      | Slight, near. Compression                     |
|               |                                                                                               |       | SS    | 32 16    |      |                          |      |           |       | i       | 12 44    |      |                                               |
|               |                                                                                               |       | Lq    | 33 36    |      |                          | 22   | SHILLONG  | Z     | e       | 07 38 09 |      | Tremor                                        |
|               |                                                                                               |       | SSS   | 33 47    |      |                          |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | Lr    | 36.02    |      |                          | 22   | SHILLONG  | Z     | i       | 15 17 11 |      | Slight, local                                 |
|               | KODAIKANAL                                                                                    | E     | e     | 03 22 29 |      | Tremor                   |      |           |       |         |          |      |                                               |
|               | POONA                                                                                         | Z     | eP    | 03 23 01 | 5950 |                          | 22   | SHILLONG  | Z     | i       | 17 16 17 |      | Slight. Rarefaction                           |
|               | E                                                                                             |       | PcP   | 24 00    |      |                          |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | PP    | 25 10    |      |                          | 22   | SHILLONG  | Z     | iP      | 17 59 49 |      | Slight. Compression                           |
|               |                                                                                               | N     | PcS   | 28 18    |      |                          |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | eS    | 30 33    |      |                          | 22   | SHILLONG  | Z     | i       | 18 45 06 |      | Slight, near Compression                      |
|               |                                                                                               |       | ScS   | 32 52    |      |                          |      |           |       | i       | 45 51    |      |                                               |
|               |                                                                                               |       | Lr    | 38 17    |      |                          | 22   | SHILLONG  | Z     | iP      | 20 59 11 |      | Slight. Rarefaction                           |
|               |                                                                                               |       | M     | 42 31    |      |                          |      |           |       |         |          |      |                                               |
|               | BOMBAY                                                                                        | E     | iP    | 03 23 12 | 6250 | Moderate                 | 23   | DEHRA DUN | N,E   | e       | 00 57 07 |      | Tremor                                        |
|               | N                                                                                             |       | eP    | 23 14    |      |                          |      |           |       |         |          |      |                                               |
|               | E                                                                                             |       | PcP   | 23 40    |      |                          | 23   | SHILLONG  | Z     | e       | 02 17 52 |      | Slight, near. probably near.                  |
|               | N                                                                                             |       | PcP   | 23 43    |      |                          |      |           |       | i       | 17 54    |      |                                               |
|               | E                                                                                             |       | PP    | 25 18    |      |                          | 23   | SHILLONG  | Z,E   | iP      | 02 54 15 | 160  | Moderate. Compression                         |
|               |                                                                                               |       | PPP   | 26 84    |      |                          |      | E         |       | Pg      | 34 17    |      |                                               |
|               |                                                                                               | N     | PPP   | 26 48    |      |                          |      |           |       | PP      | 34 22    |      |                                               |
|               |                                                                                               |       | e     | 30 10    |      |                          |      |           |       | i       | 34 32    |      |                                               |
|               |                                                                                               | E     | iS    | 31 02    |      |                          |      |           |       | S/Sg/S* | 34 37    |      |                                               |
|               |                                                                                               | N     | eS    | 31 06    |      |                          | 23   | CHATRA    | Z     | iP      | 04 07 45 | 270  | Feeble                                        |
|               |                                                                                               | E     | PPS   | 31 32    |      |                          |      |           |       | iS      | 08 16    |      |                                               |
|               |                                                                                               | N     | PPS   | 31 34    |      |                          | 23   | SHILLONG  | Z     | eP      | 06 38 20 |      | Feeble                                        |
|               |                                                                                               |       | SS    | 34 55    |      |                          |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | SSS   | 37 22    |      |                          | 23   | SHILLONG  | E     | iP      | 06 39 00 | 6000 | Moderate Compression                          |
|               |                                                                                               |       | M     | 49 40    |      | Per. = 7 secs μ = 1      |      |           |       | i       | 39 23    |      | Ground movement West                          |
| 19            | SHILLONG                                                                                      | Z     | e     | 03 54 40 |      | Slight                   |      |           |       | i       | 40 06    |      |                                               |
| 19            | SHILLONG                                                                                      | Z     | eP    | 07 31 21 |      | Slight                   |      |           |       | PP      | 41 02    |      |                                               |
| 19            | SHILLONG                                                                                      | Z     | eP    | 11 11 00 |      | Slight                   |      |           |       | PPP     | 42 11    |      |                                               |
|               | DEHRA DUN                                                                                     | N,E   | e     | 11 28 50 |      | Feeble. Phases not clear |      |           |       | iS      | 46 35    |      |                                               |
|               |                                                                                               |       | i     | 29 40    |      |                          |      |           |       | PPS     | 46 58    |      |                                               |
| 19            | SHILLONG                                                                                      | Z     | eP    | 14 50 28 |      | Slight                   |      |           |       | ScS     | 48 48    |      |                                               |
| 19            | SHILLONG                                                                                      | Z     | e     | 16 43 37 |      | Slight                   |      |           |       | M       | 59 50    |      | Per. = 19 secs μ = 6                          |
| 19            | SHILLONG                                                                                      | Z     | e     | 19 43 09 |      | Slight                   |      |           |       |         |          |      |                                               |
| 19            | SHILLONG                                                                                      | N,E   | e     | 22 56 55 |      | Tremor                   | 23   | SHILLONG  | Z     | iP      | 09 47 35 |      | Slight, near Rarefaction Ground movement West |
| 20            | SHILLONG                                                                                      | Z     | ePg   | 01 26 09 | 90   | Slight                   |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | PP    | 26 11    |      |                          |      |           |       |         |          |      |                                               |
|               |                                                                                               |       | Sg    | 26 19    |      |                          | 23   | SHILLONG  | E     | i       | 10 52 31 |      | Slight                                        |
| 20            | DEHRA DUN                                                                                     | N,E   | e     | 01 39 31 |      | Tremor                   |      |           |       | i       | 53 01    |      | Probably near                                 |
|               |                                                                                               |       |       |          |      |                          |      |           |       | i       | 53 36    |      |                                               |
|               |                                                                                               |       |       |          |      |                          | 24   | SHILLONG  | Z,E   | iP      | 04 57 15 | 2920 | Slight                                        |
|               |                                                                                               |       |       |          |      |                          |      | E         |       | PP      | 57 57    |      | Rarefaction.                                  |
|               |                                                                                               |       |       |          |      |                          |      |           |       | PPP     | 58 04    |      | Ground movement West                          |
|               |                                                                                               |       |       |          |      |                          |      |           |       | PcP     | 59 29    |      |                                               |



| DATE          | STATION   | COMPT | PHASE | G. | M. | T. | Δ    | REMARKS                                                                    | DATE          | STATION  | COMPT          | PHASE            | G.   | M. | T.                      | Δ    | REMARKS                  |                    |
|---------------|-----------|-------|-------|----|----|----|------|----------------------------------------------------------------------------|---------------|----------|----------------|------------------|------|----|-------------------------|------|--------------------------|--------------------|
|               |           |       |       | h. | m. | s. | km   |                                                                            |               |          |                |                  | h.   | m. | s.                      | km   |                          |                    |
| December 1955 |           |       |       |    |    |    |      |                                                                            | December 1955 |          |                |                  |      |    |                         |      |                          |                    |
| 24            | SHILLONG  | E     | eS    | 05 | 01 | 46 |      |                                                                            | 27            | Epc:     | 14°N, 145°E.   | Mariana Islands. | -h   | ≈  | 100 KmCa;               |      |                          |                    |
|               | Contd.    |       | Lq    |    | 02 | 37 |      |                                                                            |               |          |                |                  | -H   | ≈  | 08h 47m 15s (U.S.C.G.S) |      |                          |                    |
|               |           |       | SS    |    | 02 | 56 |      |                                                                            |               |          | 12½°N, 145½°E; |                  | -h   | ≈  | 100 KmCa;               |      |                          |                    |
|               |           |       | SSS   |    | 03 | 09 |      |                                                                            |               |          |                |                  | -H   | ≈  | 08h 47m 17s (B.C.I.S)   |      |                          |                    |
|               |           |       | M     |    | 06 | 00 |      | Per. ≈ 13 secs<br>μ ≈ 4                                                    |               |          |                |                  |      |    |                         |      |                          |                    |
| 24            | SHILLONG  | E     | iP    | 05 | 07 | 57 |      | Slight Ground movement West<br>Other phases superimposed on previous shock |               | SHILLONG | Z,E            | eP               | 08   | 56 | 14                      | 5720 | Slight                   |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | E              | PcP              |      | 57 | 00                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | PP               |      | 58 | 10                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N,E            | eS               | 09   | 03 | 34                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | E              | ScS              |      | 06 | 03                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | SS               |      | 07 | 24                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | SSS/Lq           |      | 08 | 48                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N,E            | M                |      | 16 | 29                      |      |                          |                    |
| 24            | SHILLONG  | Z     | P     | 06 | 31 | 10 | 220  | Slight Rarefaction                                                         |               | COLOMBO  | E              | P                | 08   | 57 | 51                      | 7030 |                          |                    |
|               |           |       | P*    |    | 31 | 12 |      |                                                                            |               |          |                | S                | 09   | 06 | 23                      |      |                          |                    |
|               |           |       | Pg    |    | 31 | 15 |      |                                                                            |               |          |                | L                |      | 22 | --                      |      | Amp. ≈ 0.2               |                    |
|               |           |       | PP    |    | 31 | 18 |      |                                                                            |               |          |                | M                |      | 33 | 01                      |      |                          |                    |
|               |           |       | S     |    | 31 | 38 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | S*    |    | 31 | 41 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | Sg    |    | 31 | 44 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
| 24            | SHILLONG  | Z     | iP    | 11 | 20 | 05 |      | Slight Rarefaction                                                         |               | POONA    | Z              | eP               | 08   | 58 | 11                      |      | Slight. Phases not clear |                    |
| 24            | CHATRA    | N,E   | eP    | 18 | 59 | 00 | 300  | Slight                                                                     |               | BOMBAY   | N,E            | eP               | 08   | 58 | 17                      | 7710 | Moderate                 |                    |
|               |           |       | iS    | 19 | 00 | 34 |      |                                                                            |               |          | E              | PP               | 09   | 00 | 51                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N              | eS               |      | 07 | 24                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | E              | iS               |      |    |                         |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | PS               |      | 07 | 55                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N,E            | PPS              |      | 08 | 18                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N              | e                |      | 10 | 01                      |      |                          |                    |
| 24            | SHILLONG  | Z     | iP    | 22 | 26 | 54 |      | Slight Compression                                                         |               | 27       | CHATRA         | Z                | iP   | 10 | 17                      | 49   | 150                      | Feeble             |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | iS               |      | 18 | 08                      |      |                          |                    |
| 25            | SHILLONG  | Z     | iP    | 08 | 41 | 29 |      | Slight Compression                                                         |               | 28       | SHILLONG       | Z                | iP   | 12 | 09                      | 12   |                          | Slight, local      |
|               |           |       | i     | 10 | 26 | 58 |      | Slight, local                                                              |               | 28       | SHILLONG       | Z                | iP   | 15 | 38                      | 41   | 50                       | Slight             |
|               |           |       | i     |    | 26 | 59 |      |                                                                            |               |          | N,E            | ePg              |      |    |                         |      | Compression              |                    |
|               |           |       | i     |    | 27 | 12 |      |                                                                            |               |          |                | iSg              |      | 38 | 47                      |      |                          |                    |
| 25            | SHILLONG  | Z     | e     | 11 | 32 | 05 |      | Slight, near                                                               |               |          | CHATRA         | Z                | eP   | 16 | 39                      | 27   | 630                      | Feeble             |
|               |           |       | i     |    | 32 | 40 |      |                                                                            |               |          |                | iS               |      | 40 | 33                      |      |                          |                    |
| 25            | CHATRA    | Z     | eP    | 14 | 13 | 18 | 540  | Feeble                                                                     |               | 28       | SHILLONG       | Z                | e    | 17 | 35                      | 00   |                          | Slight             |
|               |           |       | iS    |    | 14 | 15 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
| 25            | SHILLONG  | Z     | iP    | 15 | 29 | 10 |      | Slight Compression                                                         |               | 28       | DEHRA DUN      | N,E              | e    | 19 | 59                      | 23   |                          | Tremor             |
| 26            | SHILLONG  | Z     | e     | 06 | 14 | 31 |      | Tremor. Beginning uncertain.                                               |               | 28       | SHILLONG       | Z                | iP   | 22 | 04                      | 50   |                          | Slight Rarefaction |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
| 26            | SHILLONG  | Z     | eP    | 07 | 17 | 10 | 520  | Slight                                                                     |               | 28       | SHILLONG       | Z                | iP   | 03 | 33                      | 04   |                          | Slight Rarefaction |
|               |           |       | eS    |    | 18 | 05 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               | POONA     | N     | e     | 07 | 18 | 23 |      | Very feeble Phases not clear                                               |               | 29       | SHILLONG       | Z                | iP   | 03 | 43                      | 07   |                          | Slight             |
|               |           |       | e     |    | 21 | 24 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | e     |    | 23 | 58 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               | DEHRA DUN | N,E   | eP    | 07 | 18 | 35 | 1980 | Slight                                                                     |               | 29       | SHILLONG       | Z                | iP   | 05 | 02                      | 32   |                          | Slight Compression |
|               |           | N     | iS    |    | 21 | 52 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | SS    |    | 22 | 13 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | SSS   |    | 22 | 27 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | Lr    |    | 22 | 46 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | M     |    | 24 | 04 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               | BOMBAY    | E     | e     | 07 | 20 | 44 |      | Beginning doubtful                                                         |               | 29       | SHILLONG       | Z                | eP   | 06 | 20                      | 56   |                          | Slight             |
|               |           |       | e     |    | 24 | 10 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | e     |    | 25 | 56 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | i     |    | 26 | 53 |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               |           |       | M     |    | 29 | -- |      |                                                                            |               |          |                |                  |      |    |                         |      |                          |                    |
|               | HYDERABAD | E     | M     | 07 | 25 | 18 |      | Slight. Per. ≈ 9 secs<br>μ ≈ 1                                             |               | 29       | SHILLONG       | Z,E              | iP   | 08 | 26                      | 46   | 480                      | Rarefaction        |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N              | eP               |      | 26 | 53                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | N,E            | PP               |      | 26 | 58                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | PPP              |      | 27 | 02                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | Pg               |      | 27 | 02                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | Lq               |      | 27 | 28                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | iS               |      | 27 | 38                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | S*               |      | 27 | 47                      |      |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                | Sg               |      | 27 | 59                      |      |                          |                    |
| 26            | SHILLONG  | Z     | iP    | 08 | 03 | 26 |      | Slight Rarefaction                                                         |               | 29       | CHATRA         | E                | eP   | 08 | 26                      | 55   | 570                      |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          | Z              | iP               |      | 27 | 55                      |      |                          |                    |
| 26            | SHILLONG  | Z     | iP    | 10 | 01 | 36 |      | Slight Compression Probably near                                           |               |          | BOKARO         | N,E              | eP   | 08 | 27                      | 12   | 620                      |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | PP   |    | 27                      | 16   |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | PPP  |    | 27                      | 25   |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | Lq   |    | 28                      | 10   |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | iS   |    | 28                      | 17   |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | SSS  |    | 28                      | 39   |                          |                    |
|               |           |       |       |    |    |    |      |                                                                            |               |          |                |                  | Sg/M |    | 28                      | 58   |                          |                    |

| DATE          | STATION    | COMPT   | PHASE | G. M. T. | Δ    | REMARKS                  | DATE | STATION   | COMPT | PHASE | G. M. T. | Δ   | REMARKS                  |
|---------------|------------|---------|-------|----------|------|--------------------------|------|-----------|-------|-------|----------|-----|--------------------------|
|               |            |         |       | h. m. s. | km   |                          |      |           |       |       | h. m. s. | km  |                          |
| December 1955 |            |         |       |          |      |                          |      |           |       |       |          |     |                          |
| 29            | DEHRA DUN  | N, E    | eP    | 08 28 10 | 1120 |                          | 29   | SHILLONG  | Z     | eP    | 16 25 57 |     | Slight                   |
| Contd.        |            | N       | PP    | 28 16    |      |                          | 29   | SHILLONG  | Z     | eP    | 17 02 31 |     |                          |
|               |            |         | PPP   | 28 29    |      |                          | 29   | SHILLONG  | Z     | eP    | 17 12 24 |     | Slight                   |
|               |            |         | Lq    | 29 49    |      |                          | 29   | SHILLONG  | Z     | iP    | 18 29 19 |     | Slight                   |
|               |            |         | iS    | 30 05    |      |                          |      |           |       | i     | 29 22    |     | Compression              |
|               |            |         | SS    | 30 17    |      |                          |      |           | E     | e     | 30 22    |     |                          |
|               |            |         | Lr    | 30 31    |      |                          | 29   | SHILLONG  | Z     | eP    | 21 53 17 |     | Slight, near             |
|               |            |         | SSS   | 30 40    |      |                          |      |           | Z, E  | i     | 53 20    |     |                          |
|               |            |         | M     | 31 15    |      |                          |      |           |       | i     | 54 31    |     |                          |
|               | NEW DELHI  | N       | eP    | 08 28 18 | 1200 |                          | 29   | SHILLONG  | Z     | e     | 23 39 55 |     | Slight                   |
|               |            |         | iS    | 30 21    |      |                          | 30   | SHILLONG  | Z     | iP    | 07 05 43 |     | Slight. Rarefaction      |
|               |            |         | SSS   | 30 50    |      |                          |      | DEHRA DUN | N, E  | e     | 07 07 27 |     | Feeble. Phases not clear |
|               |            |         | M     | 32 01    |      |                          |      |           |       |       |          |     |                          |
|               | HYDERABAD  | E       | eP    | 08 29 26 | 1720 |                          | 30   | SHILLONG  | Z     | eP    | 12 13 03 |     | Slight                   |
|               |            |         | iS    | 32 19    |      | Per. ± 8 secs            |      |           |       |       |          |     |                          |
|               |            |         | M     | 34 54    |      | U = 6                    |      |           |       |       |          |     |                          |
|               | POONA      | Z       | eP    | 08 29 55 | 1990 | Compression              | 30   | SHILLONG  | Z     | iP    | 07 11 16 |     | Slight. Compression      |
|               |            | E       | PP    | 30 07    |      | Ground movement          | 30   | DEHRA DUN | N, E  | e     | 08 01 27 |     | Tremor                   |
|               |            |         | PPP   | 30 15    |      | West                     | 30   | SHILLONG  | Z     | eP    | 13 30 55 | 130 | Feeble                   |
|               |            | N, E    | iS    | 33 13    |      |                          |      |           |       | iS    | 31 12    |     |                          |
|               |            | N       | SS    | 33 35    |      |                          | 30   | SHILLONG  | Z     | eP    | 13 37 26 |     | Slight, near.            |
|               |            |         | Lr    | 34 08    |      |                          | 30   | SHILLONG  | Z     | e     | 16 09 36 |     | Slight                   |
|               |            | E       | M     | 35 25    |      |                          | 30   | SHILLONG  | Z     | e     | 16 34 58 |     | Slight                   |
|               |            |         | PcS   | 37 46    |      |                          | 30   | SHILLONG  | Z     | e     | 16 44 02 |     | Slight                   |
|               | BOMBAY     | N, E    | eP    | 08 30 02 | 2050 |                          | 30   | SHILLONG  | Z     | e     | 18 56 23 |     | Slight                   |
|               |            | N       | PP    | 30 17    |      | Per. ± 12 secs           | 30   | SHILLONG  | Z     | e     | 20 02 59 |     | Slight                   |
|               |            | E       | PP    | 30 22    |      | U = 16                   | 30   | SHILLONG  | Z     | e     | 21 06 44 | 120 | Slight                   |
|               |            | N       | e     | 31 15    |      | Per. ± 12 secs           |      |           |       | iSg   | 06 58    |     | Rarefaction              |
|               |            | N, E    | eS    | 33 25    |      | U = 15                   | 30   | SHILLONG  | Z     | e     | 21 13 34 |     | Slight                   |
|               |            |         | SS    | 33 46    |      |                          | 31   | SHILLONG  | Z     | e     | 06 06 16 |     | Slight                   |
|               |            |         | Lr    | 34 18    |      |                          | 31   | DEHRA DUN | N, E  | e     | 06 38 46 |     | Tremor                   |
|               |            | N       | M     | 37 52    |      |                          | 31   | SHILLONG  | Z     | e     | 10 00 29 |     | Slight                   |
|               |            | E       | M     | 37 53    |      |                          | 31   | CHATRA    | Z     | eP    | 12 48 35 | 470 | Feeble                   |
|               |            |         |       |          |      |                          |      |           |       | iS    | 49 25    |     |                          |
|               | MADRAS     | E       | eP    | 08 30 03 | 2090 |                          | 31   | DEHRA DUN | N, E  | e     | 20 37 26 |     | Feeble. Phases not clear |
|               |            |         | PP    | 30 17    |      |                          | 31   | DEHRA DUN | N, E  | e     | 21 23 09 |     | Tremor                   |
|               |            |         | PPP   | 30 30    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | iS    | 33 30    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | Lq    | 33 47    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | SS    | 33 57    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | SSS   | 34 19    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | Lr    | 34 41    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | M     | 36 13    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | ScP   | 37 34    |      |                          |      |           |       |       |          |     |                          |
|               | KODAIKANAL | E       | eP    | 08 30 37 | 2590 |                          |      |           |       |       |          |     |                          |
|               |            |         | iS    | 34 46    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | SS    | 35 54    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | SSS   | 36 31    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | Lq    | 36 32    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | Lr    | 37 08    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | M     | 39 09    |      | Per. ± 11 secs           |      |           |       |       |          |     |                          |
|               |            |         |       |          |      | U = 6.2                  |      |           |       |       |          |     |                          |
|               | COLOMBO    | E       | P     | 08 35 31 | 2890 | 'S' uncertain            |      |           |       |       |          |     |                          |
|               |            |         | S     | 40 --    |      | Amp. ± 0.4 mm            |      |           |       |       |          |     |                          |
|               |            |         | L     | 43 51    |      |                          |      |           |       |       |          |     |                          |
|               |            |         | M     | 48 23    |      |                          |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z, E    | eP    | 10 24 46 |      | Slight                   |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z       | eP    | 10 47 47 |      | Slight                   |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z, E    | e     | 10 49 51 |      | Slight, near             |      |           |       |       |          |     |                          |
|               |            |         | i     | 51 07    |      |                          |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z       | eP    | 11 00 34 | 500  | Slight                   |      |           |       |       |          |     |                          |
|               |            | Z, E    | iSg   | 01 52    |      |                          |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | ZZ      | iP    | 11 31 56 |      | Slight. Compression      |      |           |       |       |          |     |                          |
| 29            | CHATRA     | Z       | eP    | 11 49 27 | 590  | Feeble                   |      |           |       |       |          |     |                          |
|               |            |         | iS    | 50 29    |      |                          |      |           |       |       |          |     |                          |
|               | SHILLONG   | Z       | iP    | 11 49 29 | 490  | Slight                   |      |           |       |       |          |     |                          |
|               |            | E       | iS    | 50 22    |      | Rarefaction              |      |           |       |       |          |     |                          |
|               |            | Z, N, E | iSg   | 50 43    |      |                          |      |           |       |       |          |     |                          |
|               | DEHRA DUN  | N, E    | e     | 11 50 56 |      | Feeble. Phases not clear |      |           |       |       |          |     |                          |
|               |            |         | e     | 52 52    |      |                          |      |           |       |       |          |     |                          |
| 29            | BOMBAY     | N, E    | e     | 11 59 11 |      |                          |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z       | eP    | 13 48 30 |      | Slight                   |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z       | eP    | 14 39 33 |      | Slight                   |      |           |       |       |          |     |                          |
| 29            | SHILLONG   | Z       | iP    | 16 16 43 |      | Slight. Compression      |      |           |       |       |          |     |                          |

*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 December 1955.

| 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 |
|---------------------|----------------|----------------------|-------------------|-------------------------|---------------|---------|
|---------------------|----------------|----------------------|-------------------|-------------------------|---------------|---------|

|          |    |       |    |         |   |   |
|----------|----|-------|----|---------|---|---|
| SHILLONG | 04 | 02 34 | 2  | IV      | 1 | - |
| SHILLONG | 07 | 06 29 | 6  | IV      | 2 | - |
| SHILLONG | 14 | 10 52 | 2  | V to VI | 1 | - |
| SHILLONG | 22 | 16 07 | 1  | V       | 1 | - |
| SHILLONG | 28 | 15 38 | 40 | IV      | 2 | - |

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