

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

January, 1960




Published under the direction of
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AUG 4 1964

List of Seismograph Stations with their Instruments and Constants

| STATION | LATITUDE | LONGITUDE | HEIGHT m. s. l. (Metres) | LITHOGRAPHIC FOUNDATION | INSTRUMENT | COMPT. | PERIOD IN SECS | STATIC MAGNI- FICATION | DAMPING RATIO | PAPER SPEED mm/min. |
|-------------|-----------|-----------|---|--|--|--------|---------------------------|------------------------------|------------------|---------------------------|
| BOMBAY | 18° 54' N | 72° 49' E | 5 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 |
| | | | | | Sprengnether | E | To = Tg = 7 secs | | | 30 |
| BOKARO | 23° 50' N | 85° 48' E | - | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 |
| CALCUTTA | 22° 32' N | 88° 22' E | (1) 7 (Milne-Shaw) (2) 6 (Omori-Ewing) Alluvium | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Omori-Ewing | N | 16 | 32 | - | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | - | 25.4 |
| CHATRA | 26° 50' N | 87° 10' E | 161 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 |
| | | | | | Benioff | Z | To = 0.72 Tg = 0.45 secs. | | Critical | 30 |
| | | | | | Wenner Accelerograph: ZNE | | | | | |
| COLOMBO | 05° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - |
| DEHRA DUN | 30° 19' N | 78° 02' E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| HYDERABAD | 17° 26' N | 78° 27' E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| KODAIKANAL | 10° 14' N | 77° 28' E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 |
| MADRAS | 13° 00' N | 80° 11' E | 15 | - | Sprengnether | E | To = Tg = 72 secs | | Critical | 30 |
| NEW DELHI | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | |
| POONA | 18° 32' N | 73° 51' E | 560 | Deccan Trap | Sprengnether | Z | To = Tg = 1.5 | | Critical | 30 |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 |
| PORT BLAIR | 11° 49' N | 92° 43' E | - | - | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 66:1 | 30 |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 |
| | | | | | | | | | | Wenner Accelerograph: ZNE |
| SHILLONG | 25° 34' N | 91° 53' E | 1600 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Benioff | Z | To = 1.0 Tg = 0.18 | | | 60 |
| | | | | | Sprengnether E To = Tg = 6.5 Critical 30 | | | | | |
| | | | | | Wenner Accelerograph ZNE | | | | | |
| TOCKLAI | 28° 45' N | 94° 45' E | - | Alluvium | Wood-Anderson | E | 0.8 | 970 | h = 0.8 | 60 |
| VIZIANAGRAM | 18° 07' N | 83° 27' E | - | - | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km | REMARKS |
|---|------------|-------|-------------|----------------------------|----------------|---------------------------------------|
| <u>January, 1960</u> | | | | | | |
| 01 | Shillong | Z | e? | 02 33 04 | | Slight, distant. |
| 01 | Port Blair | N | iPg iSg | 04 12 06 12 14 | 60 | Slight. |
| 01 Epc:- 49°N, 153½°E, Kurile Islands. -H = 04h 11m 40s (USCGS). | | | | | | |
| | Shillong | Z | iP | 04 20 53 | | Slight, distant. |
| | Poona | Z | eP | 04 22 47 | | Feeble, phases not clear. |
| 01 | Shillong | Z | e | 19 04 59 | | Tremor. |
| 01 | Shillong | Z | iPg iSg | 21 04 02 04 15 | 110 | Slight. |
| 01 | Shillong | Z | e? | 23 09 44 | | Slight, distant. |
| 01 | Shillong | Z | e? | 23 11 03 | | Slight, distant. |
| 01 Epc:- 56°N, 162½°E, Near East Coast of Kamchatka. -H = 23h 12m 31s (USCGS). | | | | | | |
| | Shillong | Z | iP | 23 22 31 | | Slight, distant. |
| 02 Epc:- 54°N, 157½°E, Kamchatka. -H = 01h 52m 18s (USCGS). | | | | | | |
| | Shillong | Z | iP | 02 01 57 | | Slight, distant, compression. |
| | Chatra | Z | iP | 02 02 11 | | Feeble, compression. |
| 02 Epc:- 2½°N, 96°E, Off Coast of Sumatra. -H = 05h 06m 54s (USCGS). | | | | | | |
| | Calcutta | E | e i | 05 08 51 15 42 | | Slight. |
| | Port Blair | E | e e | 05 09 57 11 49 | | Slight. |
| | Kodaikanal | E | e | 05 11 43 | | Tremor. |
| | Hyderabad | N | e S M | 05 11 54 16 10 24 27 | | Period = 15 sec. Gr. dis = 4 μ |
| | Shillong | Z | iP iS | 05 12 02 16 16 | | Slight, Rarefraction. |
| 02 | Bokaro | NE | iP iS | 05 12 07 16 17 | 2600 | Slight, other phases not clear. |
| | Bombay | E | eP eS | 05 12 20 16 34 | 2640 | Slight. |
| | | NE | e | 19 27 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. |  km | REMARKS |
|------|-----------|---------|------------------|-------------------------------------|---|----------------------------------|
| | | | | <u>January, 1960</u> | | |
| | Chatra | Z NE | eP S | 05 12 27 16 51 | 2810 | Slight. |
| | Poona | Z | eP i | 05 12 42 18 45 | | Feeble, phases not clear. |
| | Agra | Z E | iP iS | 05 13 06 17 59 | 3250 | Slight, compression. |
| | Dehra Dun | NE | e iS | 05 13 40 18 41 | | Feeble, other phases not clear. |
| 02 | Dehra Dun | NE | e | 05 55 34 | | Tremor. |
| | Chatra | Z | iP | 05 55 46 | | Feeble, rarefaction. |
| 02 | Chatra | Z | iP | 07 50 20 | | Mild, near compression. |
| 02 | Bombay | E NE | e e | 12 47 00 53 45 | | Slight, distant. |
| | Dehra Dun | NE | e | 12 49 00 | | Feeble. |
| 02 | Shillong | Z | iPg | 14 15 15 | | Slight, local. |
| 02 | Shillong | Z | e | 15 30 05 | | Slight, near. |
| 02 | Shillong | Z | e e e e | 16 01 31 01 36 01 44 01 50 | | Slight, near. |
| 02 | Shillong | Z | iP | 16 14 30 | | Slight, distant, compression. |
| 02 | Shillong | Z | i | 18 27 28 | | Slight, distant, rarefaction. |
| 02 | Shillong | Z | iP | 19 35 50 | | Slight, distant, compression. |
| 02 | Shillong | Z | iP | 21 33 41 | | Slight, distant, compression. |
| 02 | Shillong | Z | iP | 21 38 12 | | Slight, near. |
| | Chatra | Z | iP | 21 39 07 | | Feeble, rarefaction. |
| 02 | Shillong | Z | e i | 21 59 59 22 00 12 | | Slight, near. |
| 02 | Shillong | Z | iP | 23 13 19 | | Slight, distant, compression. |
| 02 | Shillong | Z | i | 23 48 43 | | |
| 03 | Shillong | Z | iP | 05 25 59 | | Slight, compression, near. |
| 03 | Shillong | Z | iP | 05 56 04 | | Slight, near, rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|---|------------|--------------|-------------|----------------------------|-----------------|---|
| <u>January, 1960</u> | | | | | | |
| 03 | Chatra | Z | iP | 10 44 31 | | Feeble, compression. |
| 03 Epc :- 44°N, 84½°E, Sin Kiang Province, China. -H = 11h 24m 00s (USCGS) | | | | | | |
| | Calcutta | E | e | 11 27 17 | | Slight. |
| | | | e | 29 57 | | |
| | | | iS | 32 57 | | |
| | Dehra Dun | NE N | eP iS | 11 27 27 29 59 | 1500 | Slight. |
| | Chatra | Z NE | eP eS | 11 28 02 31 12 | 1900 | Slight. |
| | Shillong | Z E | eP iS | 11 28 27 32 00 | 2150 | Slight, other phases not clear. |
| | Bokaro | NE | iP iS | 11 28 42 32 17 | 2170 | Slight, other phases not clear. |
| | Poona | Z | eP e | 11 29 45 34 40 | | Slight. |
| | Hyderabad | N | S M | 11 34 31 41 28 | | Period = 15 sec, Gr. dis = 6 μ |
| | Bombay | NE E N | e e M | 11 34 41 37 49 41 19 | | Slight, near. Period = 14 sec, Gr. dis = 2 μ |
| | Kodaikanal | E | e | 11 36 19 | | Tremor. |
| 03 | Kodaikanal | E | e | 17 50 09 | | Tremor. |
| 03 | Shillong | Z | e | 20 18 40 | | Tremor. |
| 03 Epc :- 39½°N, 15½°E, Tyrrhenian Sea. -H = 20h 19m 30s (USCGS) h = 250 kms. | | | | | | |
| | Chatra | Z ZNE | eP eS | 20 29 13 37 02 | 6690 | Feeble. |
| | Shillong | Z | iP | 20 29 41 | | Slight, distant. |
| 03 Epc :- 45°N, 148°E, Kurile Islands. -H = 21h 20m 13s (USCGS) -h about 150 kms. | | | | | | |
| | Shillong | Z | iP | 21 28 48 | | Slight, distant, rarefaction. |
| | Chatra | Z ZNE | iP S | 21 29 13 36 18 | 5720 | Slight, rarefaction. |

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| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|---|------------|-------|----------------|----------------------------|-----------------|---|
| <u>January, 1960</u> | | | | | | |
| | Poona | Z | iP | 21 30 51 | | Feeble, distant, rarefaction, other phases not clear. |
| 03 | Shillong | Z | i | 23 31 43 | | Tremor. |
| 04 | Shillong | Z | iP | 01 04 43 | | Slight, near, compression. |
| 04 | Dehra Dun | NE | e i | 02 45 07 46 53 | | Feeble |
| 04 Epc :- 26°N, 90°E, India Pakistan Border | | | | | | |
| -H = 03h 57m 02s (USCGS) | | | | | | |
| Mag:- 4.2 (Shillong) - Felt at Dhubri (Assam) | | | | | | |
| | Shillong | Z | iPg | 03 57 36 | 190 | Compression. |
| | | ZE | PP | 57 38 | | |
| | | E | PPP | 57 46 | | |
| | | NE | iSg | 57 58 | | |
| | Chatra | Z | iP | 03 57 55 | 270 | Rarefaction. |
| | | NE | S | 58 26 | | |
| | Calcutta | E | eP iS | 03 58 08 58 53 | 410 | |
| | Tocklai | E | eP iS | 03 58 16 59 02 | 420 | Slight. |
| | Bokaro | E | eP iS | 03 58 18 59 10 | 490 | |
| | Poona | Z | eP eS | 04 01 02 04 00 | 1780 | |
| | Bombay | E | eS eSS e | 04 04 10 04 30 05 15 | 1890 | Near. |
| 04 | Dehra Dun | NE | e i | 05 16 57 29 47 | | Slight, phases not clear. |
| 04 | Bombay | E | e | 06 15 02 | | Slight. |
| | | | e | 19 05 | | |
| | | NE | e | 21 16 | | |
| | | E | e | 22 51 | | |
| | | NE | e | 23 41 27 49 | | |
| | Poona | Z | iP | 06 22 52 | | Feeble, rarefaction, other phases not clear. |
| | Kodaikanal | Z | e | 06 24 09 | | Tremor. |
| | Chatra | Z | iP | 06 24 45 | | Slight, rarefaction. |
| | | N | e | 34 50 | | |

| DATE | STATION | COMPT | PHASE | G.M.T. | Δ km. | REMARKS |
|----------------------|--|---------|----------|-------------------|-----------------|--|
| <u>January, 1960</u> | | | | | | |
| | Shillong | E | e | 06 25 15 32 16 | | Slight, distant, Rarefaction. |
| 04 | Shillong | Z | eP | 12 28 52 | | Slight, near. |
| 04 | Shillong | Z | iP | 12 28 52 | | Feeble. |
| | Shillong | Z | eP | 13 01 27 | | Slight, distant. |
| 04 | Shillong | Z | iP | 13 40 08 | | Slight, distant compression. |
| 04 | Dehra Dun | NE | e i | 15 04 36 06 05 | | Feeble. |
| | Chatra | Z | e | 15 06 19 | | Feeble. |
| | Shillong | Z | eP | 15 07 04 | | |
| 04 | Poona | Z | eP | 15 25 33 | | Feeble, other phases not clear. |
| | Shillong | Z | eP | 15 25 38 | | Slight, distant. |
| 04 | Shillong | Z | e | 17 16 28 16 43 | | Slight, near. |
| 04 | Shillong | Z | e | 19 21 17 | | |
| 04 | Shillong | Z | iP | 19 42 51 | | Slight, distant, compression |
| 05 | Poona | Z | iP | 06 03 37 | | Feeble, compression other phases not clear. |
| 05 | Chatra | Z | e | 08 04 55 | | Feeble, near. |
| 05 | Dehra Dun | NE | e | 22 34 41 | | Tremor. |
| | Shillong | Z | e | 22 33 37 | | Tremor. |
| 06 | Epc: $23\frac{1}{2}^{\circ}$ N, 95° E, Burma. -H = 18 h. 43 m. 08 s. (U.S.C.G.S.). | | | | | |
| | Shillong | E | iP iS | 18 45 08 46 43 | 310 | Slight. |
| | Chatra | Z NE | iP S | 18 47 05 48 23 | 740 | Moderate, rarefaction. |
| 06 | Tocklai | E | eP | 18 47 22 | | Slight, near. |
| | Calcutta | NE | Pg e | 18 47 42 47 52 | | Slight, North. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|--------------------|---|---------|---|---|-----------------|---|
| <u>January '60</u> | | | | | | |
| 06 | Dehra Dun | NE | e e | 18 49 03 51 50 | | Feeble. |
| | Poona | Z | i | 18 53 09 | | Feeble, phases not clear. |
| | Bombay | E | e | 18 53 31 | | |
| 06 | Chatra | Z | iP | 20 26 05 | | Feeble, compression. |
| | Poona | Z | eP | 20 27 00 | | Feeble, other phases not clear. |
| 06 | Dehra Dun | NE | e e | 23 01 07 05 33 | | Feeble |
| | Bombay | E | | 23 01 17 | | |
| | Poona | Z | i? | 23 01 30 | | Very feeble, phases not clear. |
| 07 | Shillong | Z | iP | 06 44 19 | | Slight, near. |
| 07 | Epc: 6 $\frac{1}{2}$ ^o N, 94 ^o E Nicobar Islands. -H - 08 h. 15 m. 21 s. (U.S.C.G.S.). | | | | | |
| | Port Blair | E | eP eS | 08 16 52 17 59 | 630 | Slight. |
| | Shillong | Z E | eP PP PPP iS SS SSS e | 08 19 48 20 31 20 52 23 35 24 10 24 43 24 58 | 2300 | Moderate. |
| | Bokaro | NE N | iP i PP i eS M | 08 19 51 19 57 20 18 23 25 23 40 26 57 | 2320 | Slight . |
| | Hyderabad | NE N | iP PP PPP iS SS SSS LR M | 08 19 54 20 10 20 28 23 40 24 16 24 52 25 28 27 58 | 2290 | Moderate, initial ground movement towards North and West. Period = 18 Sec. Gr. Dis. = 5 μ |
| | Calcutta | E | e iS | 08 20 02 23 02 | | Slight. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|------|---|------------------|---------------------------------|---|-----------------|--|
| | Chatra | Z E | iP S | 08 20 13 24 12 | 2450 | Slight, compression. |
| | Poona | Z N | iP eS | 08 20 39 24 49 | 2600 | Moderate, initial ground movement towards North, West and compression. |
| | Bombay | NE E N | eP PP eS Lq Lr M | 08 20 51 21 18 25 13 26 08 27 23 34 38 | 2780 | Slight. Period = 14 sec. Gr. dis. = 3/μ. |
| | Agra | Z Z | eP iS | 08 21 05 25 34 | 2890 | Slight. |
| | Dehradun | NE N | eP iS e LR M | 08 21 32 26 45 28 36 30 10 32 30 | 3570 | Slight. |
| 07 | Shillong | Z | eP | 09 05 09 | | Slight, distant. |
| 07 | Shillong | Z NE | iP iS | 11 38 08 38 36 | 240 | |
| | Chatra | Z E | eP S | 11 39 09 40 21 | 690 | Slight, rarefaction. |
| | Calcutta | E | e? i? | 11 40 01 41 31 | | Slight. |
| | Poona | Z | eP | 11 42 01 | | other phases not clear. |
| | Dehradun | Z | eP | 11 43 46 | | Tremor. |
| 07 | Epc : Sandwich Islands. -H = 13h. 28 m. 16 s. (U.S.C.G.S.). Mag : 6 $\frac{1}{2}$ -6 $\frac{1}{2}$ (Pas). | | | | | |
| | Poona | Z | PKP1 PP | 13 46 50 47 33 | 12330 | Other phases not clear. |
| | Dehradun | NE | e e | 13 47 03 54 14 | | Phases not clear. |
| | Chatra | Z | PKP1 | 13 47 09 | | Distant. |
| | Shillong | Z N | ePKP e Mn | 13 47 16 49 38 14 38 - | | Distant. Period = sec. Gr. dis = 11/μ |

| DATE | STATION | COMPT | PHASE | G. M. T. | km. | REMARKS |
|------|---|-------|-------|----------|-------|-----------------------------------|
| | Bombay | E | PP | 13 47 37 | 12350 | |
| | | | e | 53 31 | | |
| | | N | e | 57 03 | | |
| | | E | e | 57 31 | | |
| | | | SS | 14 03 07 | | |
| | | | SSS | 07 21 | | |
| | | N | M | 26 41 | | Period= 17 sec., Gr. dis= 6/μ. |
| | Hydrabad | N | M | 14 26 07 | | Period = 21sec., Gr. dis= 6/μ. |
| 07 | Shillong | Z | iP | 14 55 06 | | Slight, distant, rerefraction. |
| 07 | Shillong | Z | iP | 17 43 18 | | Slight, distant, compression. |
| 07 | Kodaikanal | E | e | 18 23 07 | | Tremor. |
| 07 | Epc : 6½° N, 94½° E, Nicobar Islands. -H= 23h. 17 m. 18 s. (U.S.C.G.S.). | | | | | |
| | Port Blair | N | eP | 23 18 47 | 620 | Slight. |
| | | | eS | 19 53 | | |
| | Kodaikanal | E | iP | 23 21 28 | | Slight. |
| | | | e | 25 04 | | |
| | | | SSS | 25 42 | | |
| | | | M | 27 40 | | Period= 12 sec. Gr. dis. = 3/μ. |
| | Calcutta | E | eP | 23 21 30 | 1950 | Slight. |
| | | | iS | 24 45 | | |
| | Shillong | Z | eP | 23 21 44 | 2240 | Moderate. |
| | | E | eS | 25 26 | | |
| | | N | i | 25 47 | | |
| | Bokaro | NE | iP | 23 21 48 | 2280 | Slight. |
| | | N | i | 21 54 | | |
| | | | PP | 22 08 | | |
| | | | e | 23 07 | | |
| | | | i | 25 22 | | |
| | | | iS | 25 33 | | |
| | | | LQ | 25 48 | | |
| | | | M | 28 35 | | |
| | Hydrabad | NE | iP | 23 21 51 | 2290 | |
| | | N | PPP | 22 25 | | |
| | | | iS | 25 37 | | |
| | | | SS | 26 09 | | |
| | | | SSS | 26 28 | | |
| | | E | LR | 26 55 | | |
| | | N | LR | 27 03 | | |
| | | E | M | 28 40 | | Period = 15 sec., Gr. dis. = 4/μ |
| | | N | M | 29 04 | | Period = 12 sec. Gr. dis. = 4/μ |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|------|----------|----------------------|---------------------------------------|---|-----------------|--|
| | Chatra | Z E | eP S | 23 22 09 26 09 | 2460 | Moderate |
| | Poona | Z | eP | 23 22 34 | 2622 | Slight, compression. |
| | Bombay | NE E N | eP PP eS LQ SS LR M | 23 22 46 23 18 27 1 28 09 28 41 29 25 36 49 | 2830 | Slight. Period= 14 sec., Gr.dis.= 4 μ . |
| | Agartala | NZ | eP iS | 23 22 53 27 30 | 3000 | Slight. |
| | Dehradun | NE N | eP iS e SSS LR M | 23 23 37 28 51 30 14 31 14 32 01 34 47 | 3590 | Slight. |
| 08 | Shillong | Z | iP | 05 05 09 | | Slight, near, compression. |
| 08 | Shillong | Z | eP | 05 07 39 | | Slight, near. |
| 08 | Shillong | Z | eP | 10 41 35 | | Slight, near. |
| 08 | Shillong | Z | eP | 11 48 23 | | Slight, distant. |
| 08 | Shillong | Z | iP | 14 52 52 | | Slight, near, rarefaction. |
| 08 | Chatra | Z | iP | 15 05 00 | | Feeble. |
| | Shillong | Z | eP | 15 05 01 | | Slight, distant. |
| | Bombay | E | e e | 15 05 32 14 48 | | Slight. |
| 08 | Shillong | Z | iP | 15 16 26 | | Slight, distant, compression. |
| 08 | Shillong | Z | iPg | 15 18 48 | | Slight, local. |
| 08 | Shillong | Z | e | 15 45 40 | | Tremor. |
| 08 | Shillong | Z | e | 15 47 36 | | Tremor. |
| 08 | Shillong | Z | eP | 21 40 10 | | Slight, near. |
| 08 | Shillong | Z | e | 22 01 34 | | Tremor. |
| 08 | Shillong | Z | iP | 22 06 20 | | Slight, distant, compression. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ Km. | REMARKS |
|-----------------------|---|------------------------|--|--|-----------------|--|
| <u>January, 1960.</u> | | | | | | |
| 08 | Shillong | Z | iP | 23 38 27 | | Slight, distant, rarefaction. |
| 09 | Dehradun | NE | e i | 03 07 30 07 43 | | Feeble. |
| | Chatra | Z | eP | 03 09 06 | | Feeble. |
| | Shillong | Z | iP | 03 10 01 | | Slight, distant, rarefaction. |
| | Poona | Z | e? | 03 12 34 | | Feeble, phases not clear. |
| | Bombay | E | e | 03 14 01 | | |
| 09 | Vizianagram | NE | iP | 05 28 25 | | Local, slight. |
| 09 | Vizianagram | NE | iP | 06 01 09 | | Local, slight. |
| 09 | Epc : 36° N, 69° E, Hindukush. -H= 07 h, 23 m, 50 s. h= about 150 Km. | | | | | |
| | Dehradun | NE N | eP PP PPP LQ iS SS LR SSS Sg,M | 07 26 12 26 21 26 27 27 36 27 49 27 59 28 03 28 12 28 45 | 960 | Slight. |
| | Agra | ZNE ZNE ZNE Z | iP PP PPP iS i i | 07 26 39 26 45 26 59 28 41 28 48 28 56 | 1230 | Moderate, initial ground movement towards North and West. |
| | Sehore | N E | iP PP PPP iS SS SSS LR M | 07 27 19 27 31 27 37 30 00 30 16 30 28 30 38 31 42 | 1660 | Moderate. |
| | Chatra | ZE NE | iP eS | 07 27 54 30 56 | 1900 | Moderate, initial ground movement towards North, West and rarefaction. |

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| DATE | STATION | COMPL. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|----------------------|-------------|------------------------|---------------------------------------|----|----|----|-----------------|--|
| <u>JANUARY, 1960</u> | | | | | | | | |
| | Bombay | NE | eP eS | 07 | 27 | 57 | 2050 | Slight. |
| | | | | | 31 | 11 | | |
| | Poona | Z N | iP PPF iS e e | 07 | 28 | 03 | 2080 | Moderate, initial ground movement towards North West and rarefaction. |
| | | | | | 28 | 37 | | |
| | | | | | 31 | 21 | | |
| | | | | | 31 | 50 | | |
| | | | | | 31 | 58 | | |
| | Bokaro | NE | iP | 07 | 28 | 10 | | Slight. |
| | | | | | 31 | 21 | | |
| | Hyderabad | NE N E N E | iP PF PPF iS LR M N | 07 | 28 | 22 | 2310 | Period=6sec. Gr.dis=12/ μ . Period=6sec. Gr.dis=10/ μ . |
| | | | | | 28 | 57 | | |
| | | | | | 29 | 24 | | |
| | | | | | 31 | 56 | | |
| | | | | | 33 | 20 | | |
| | | | | | 34 | 29 | | |
| | | | | | 34 | 52 | | |
| | Calcutta | NE | iP PF iS LR | 07 | 28 | 31 | 2250 | Moderate, West, initial ground motion towards West. |
| | | | | | 28 | 57 | | |
| | | | | | 32 | 15 | | |
| | | | | | 33 | 18 | | |
| | Shillong | ZNE NE ZNE E | iP iSP iS SS | 07 | 28 | 37 | 2420 | Moderate, initial ground movement towards North, West and rarefaction. |
| | | | | | 29 | 45 | | |
| | | | | | 32 | 18 | | |
| | | | | | 33 | 26 | | |
| | Vizianagram | NE N | iP PP PPF iS SS SSS | 07 | 28 | 43 | 2470 | Moderate, rarefaction. |
| | | | | | 29 | 09 | | |
| | | | | | 29 | 22 | | |
| | | | | | 32 | 27 | | |
| | | | | | 33 | 11 | | |
| | | | | | 33 | 23 | | |
| | Tocklai | E | eP | 07 | 28 | 49 | | Distant, slight. |
| | Port Blair | N | iP iS | 07 | 30 | 12 | 3500 | Slight. |
| | | | | | 35 | 06 | | |
| | Kodaikanal | E E | e S SS LR N | 07 | 31 | 51 | | Moderate Period=9sec. Gr.dis.=13/ μ |
| | | | | | 35 | 27 | | |
| | | | | | 35 | 51 | | |
| | | | | | 36 | 37 | | |
| | | | | | 38 | 10 | | |
| 09 | Shillong | Z | iP | 12 | 29 | 55 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 14 | 19 | 03 | | Slight distant rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|----------------------|----------|--------|---------------------|----|----|----|-----------------|-------------------------------|
| <u>JANUARY, 1960</u> | | | | | | | | |
| 09 | Shillong | Z | iPg iSg | 16 | 44 | 10 | 40 | Slight, compression. |
| | | | | | 44 | 15 | | |
| 09 | Shillong | Z | iP | 17 | 24 | 48 | | Slight, distant, compression. |
| 09 | Shillong | Z | e ^r i | 17 | 26 | 26 | | Slight, near. |
| | | | | | 27 | 03 | | |
| 09 | Shillong | Z | iP | 18 | 00 | 58 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 21 | 49 | 25 | | Slight, distant compression. |
| 09 | Shillong | Z | iP | 22 | 00 | 34 | | Slight, distant compression. |
| 09 | Shillong | Z | iP | 22 | 14 | 37 | | Slight, distant, compression. |
| 10 | Shillong | Z | iP | 06 | 35 | 00 | | Slight, distant, compression. |
| 10 | Shillong | Z | iP i i | 07 | 00 | 00 | | Slight, near, rarefaction. |
| | | | | | 00 | 04 | | |
| | | | | | 00 | 35 | | |
| 10 | Shillong | Z | iP i | 11 | 51 | 20 | | Slight, near, rarefaction. |
| | | | | | 51 | 44 | | |
| 10 | Shillong | Z | e | 12 | 46 | 10 | | Tremor. |
| 10 | Shillong | Z | e | 17 | 49 | 43 | | Tremor. |
| 10 | Shillong | Z | iP | 18 | 38 | 51 | | Slight, distant compression. |
| 10 | Shillong | Z | iP i | 20 | 34 | 33 | | Slight, near. |
| | | | | | 34 | 39 | | |
| 10 | Shillong | Z | iP | 21 | 11 | 59 | | Slight, near. |
| 10 | Shillong | Z | eP | 22 | 59 | 41 | | Slight, distant. |
| 11 | Shillong | Z | iP i i | 02 | 34 | 11 | | Slight, near, compression. |
| | | | | | 34 | 13 | | |
| | | | | | 34 | 21 | | |
| 11 | Shillong | Z | iP | 02 | 57 | 13 | | Slight, distant rarefaction. |

-1-

| DATE | STATION | COMPT | PHASE | G. M. T. | $\frac{\quad}{\text{km.}}$ | REMARKS |
|----------------------|--|---------------|---|---|----------------------------|--|
| <u>January, 1960</u> | | | | | | |
| 11 | Epc: 16° N, 96° E, Near South coast of Burma. (U.S.C.G.S). -H = 03 h. 10 m. 14 s. | | | | | |
| | Shillong | ZN | iP eP PP PPP | 03 12 43 12 55 13 24 | 1240 | Slight, initial ground movement towards North and compression. |
| | | N | i | 13 54 | | |
| | | E | i | 14 29 | | |
| | | | iS | 14 50 | | |
| | | | SS | 15 13 | | |
| | | N | SSS | 15 28 | | |
| | | E | M | 16 07 | | |
| | | N | i | 16 31 | | |
| | Calcutta | E | e i | 03 12 52 14 25 | | |
| | Bokaro | NE | e eS | 03 13 21 15 21 | | Slight. |
| | Chatra | Z E | eP i | 03 13 26 16 15 | | |
| | Hydrabad | E N | e iS LQ SS LR M | 03 14 08 17 32 17 44 18 05 18 29 20 25 | | Slight. Period= 15 sec., Gr.Dis.= 7/u . |
| | Kodaikanal | E | e | 03 14 44 | | Tremor. |
| | Agra | ZNE N | iP iS ? | 03 14 50 18 37 18 45 | 2300 | Slight, initial ground movement towards North West and compression |
| | Poona | Z E | iP iS | 03 15 05 19 12 | 2550 | Slight, initial ground movement towards West and compression. |
| | Bombay | NE E NE | eP PP eS SS | 03 15 10 15 29 19 10 19 50 | 2460 | |
| | Dehradun | NE N | eP PPP iS LQ SS SSS LR M | 03 15 12 16 01 19 21 19 40 20 01 20 28 21 07 22 58 | 2580 | Slight. |
| 11 | Shillong | Z | iP | 15 02 14 | | Slight, distant, compression. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|----------------------|---|--------|--|--|-----------------|---|
| <u>January, 1960</u> | | | | | | |
| 11 | Shillong | Z | eP | 15 56 23 | | Slight, distant. |
| 11 | Shillong | Z | iP | 19 01 57 | | Slight, near, compression. |
| 11 | Shillong | Z | iP | 22 30 21 | | Slight, distant, compression. |
| 11 | Shillong | Z | iP | 22 38 27 | | Slight, distant, rarefaction. |
| 11 | Shillong | Z | iP | 22 59 55 | | Slight, distant, compression. |
| 11 | Shillong | Z | iP | 23 03 35 | | light, distant, rarefaction. |
| 11 | Poona | Z | iP | 23 05 10 | | Feeble, rarefaction, phases not clear. |
| 12 | Shillong | Z | eP i | 00 10 41 10 57 | | Slight, near. |
| 12 | Epc: $23\frac{1}{2}^{\circ}$ N, 122° E, Near East Coast of Formosa, -H = 01 h. 52 m. 37 s. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 01 58 29 | | Slight, distant, compression. |
| | Poona | Z | eP | 02 00 59 | | Feeble, phases not clear. |
| | Bombay | NE | e e | 02 19 33 21 10 | | Slight, Surface Waves. |
| 12 | Shillong | Z | eP | 12 52 39 | | Slight, near. |
| 12 | Shillong | Z | iP | 20 06 53 | | Slight, distant, rarefaction. |
| 12 | Epc : 17° N, 98° E, South East Burm. Border, -H = 21 h. 43 m. 50 s. (Shillong). | | | | | |
| | Port Blair | N | iP iS | 21 45 37 46 55 | 740 | Slight. |
| | Shillong | Z E | iP PPP LQ i' SS SSS/LR M | 21 46 35 46 52 48 37 48 46 48 59 49 11 50 11 | 1280 | Slight, rarefaction. |

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| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|---|-----------|-------------------------------|--|---|-----------------|---------------------------------|
| <u>January, 1960</u> | | | | | | |
| | Chatra | Z | e S | 21 47 20 49 50 | | Slight. |
| | Calcutta | E | eS | 21 48 20 | | |
| | Poona | Z N | eP iS | 21 48 59 53 07 | 2570 | Slight. |
| | Bombay | E | e eS | 21 49 26 53 24 | | Slight. |
| | Bokaro | NE | eP e | 21 49 26 51 38 | | Slight, other phases not clear. |
| | Dehra Dun | NE N | e iS SS SSS M | 21 49 26 53 02 53 42 53 59 56 02 | | Slight. |
| 12 | Bombay | E | e | 22 03 24 | | |
| 13 | Shillong | Z | eP P* Pg S S* Sg | 01 11 23 11 34 11 45 12 21 12 29 12 38 | 540 | Slight. |
| 13 | Shillong | Z | e | 01 27 55 | | Tremor, near. |
| 13 | Chatra | Z | iP | 02 47 48 | | Feeble, rarefaction. |
| 13 | Shillong | Z | iP | 07 36 01 | | Slight, distant, compression. |
| 13 | Shillong | Z | iP iS | 12 00 51 01 43 | 490 | Slight, rarefaction. |
| 13 | Chatra | Z | iP | 12 01 48 | | Feeble. |
| 13 | Chatra | Z | iP | 13 47 06 | | Feeble, rarefaction. |
| 13 Epc :- 16°S, 72°W, Southern Peru. -H = 15h 40m 34s (USCGS). h = about 200 kms. Mag. 7½(Pas), 7½-7¾ (Berk). Many casualties and extensive property damage at Arequipa. | | | | | | |
| | Bombay | NE E NE E NE E | ePKP ₁ PP PPP SKKS ₁ PKKS ₁ eSS SSP SSS LQ LR M | 16 00 04 03 24 07 09 10 32 12 15 22 16 23 03 27 58 43 15 50 29 17 00 08 | 16150 | |

 Period = 17 secs.
 Gr. dis. = 22 μ

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| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|-----------------------|-----------|--------|-------|----|----|----|-----------------|---------------------------|
| | | | | h | m. | s. | | |
| <u>January, 1960.</u> | | | | | | | | |
| | Poona | Z | ePKP1 | 16 | 00 | 04 | 16270 | |
| | | N | PP | | 03 | 37 | | |
| | | | PPP | | 07 | 04 | | |
| | | | e | | 13 | 44 | | |
| | | | PPS | | 16 | 21 | | |
| | | ZNE | eSS | | 22 | 26 | | |
| | | N | SSS | | 28 | 06 | | |
| | | | LQ | | 41 | 58 | | |
| | | | LR | | 49 | 11 | | |
| | | | Mn | 17 | 00 | - | | Period=25sec. Gr.dis=58/u |
| | Dehra Dun | NE | ePKP | 16 | 00 | 12 | 16550 | |
| | | N | PP | | 03 | 42 | | |
| | | | PPP | | 07 | 01 | | |
| | | | PPS | | 16 | 24 | | |
| | | | SS | | 22 | 35 | | |
| | | | SSP | | 23 | 24 | | |
| | | N | SSS | | 28 | 13 | | |
| | Agra | ZNE | PKP | 16 | 00 | 13 | 16660 | Phases over lapping. |
| | | ZE | i? | | 00 | 24 | | |
| | | Z | i? | | 00 | 39 | | |
| | | ZE | e | | 01 | 02 | | |
| | | | PP | | 03 | 58 | | |
| | | | i | | 04 | 47 | | |
| | | Z | i? | | 05 | 07 | | |
| | | ZE | i? | | 05 | 31 | | |
| | | | PPP | | 07 | 11 | | |
| | | | PS | | 10 | 51 | | |
| | | | PPS | | 11 | 59 | | |
| | | | i? | | 13 | 51 | | |
| | | ZNE | PPS | | 16 | 33 | | |
| | | | e | | 21 | 10 | | |
| | | | M | | - | - | | |
| | Chatra | Z | ePKP1 | 16 | 00 | 15 | | |
| | Shillong | Z | iPKP1 | 16 | 00 | 19 | 18110 | Compression. |
| | | N | i | | 01 | 19 | | |
| | | | PP | | 04 | 28 | | |
| | | | i | | 05 | 31 | | |
| | | | i | | 09 | 16 | | |
| | | | i | | 12 | 19 | | |
| | | | i | | 14 | 11 | | |
| | | | i | | 15 | 54 | | |
| | | | i | | 21 | 51 | | |
| | | | iSS | | 25 | 01 | | |
| | | | iSSS | | 30 | 46 | | |

- 18 -

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | △ km. | REMARKS |
|----------------------|--|---------|-------|----|----|----|----------|----------------------------------|
| <u>January, 1960</u> | | | | | | | | |
| | Kodnikanal | E | PKP2 | 16 | 00 | 24 | | |
| | | | e | | 03 | 45 | | |
| | | | e | | 05 | 42 | | |
| | | | e | | 11 | 06 | | |
| | | | e | | 12 | 15 | | |
| | | | e | | 12 | 51 | | |
| | | | e | | 17 | 15 | | |
| | | | e | | 20 | 36 | | |
| | | | e | | 24 | 57 | | |
| | | | e | | 29 | 09 | | |
| | | | e | | 33 | 39 | | |
| | Hyderabad | E | iPKP2 | 16 | 00 | 28 | 16710 | |
| | | | PP | | 03 | 59 | | |
| | | | e | | 10 | 46 | | |
| | | | e | | 12 | 37 | | |
| | | N | e | | 18 | 28 | | |
| | | | e | | 23 | 22 | | |
| | | | e | | 36 | 01 | | |
| | | | e | | 43 | 52 | | |
| | | | e | | 54 | 15 | | |
| | Port Blair | E | i | 16 | 00 | 30 | | |
| | | | i | | 11 | 48 | | |
| | | | i | | 26 | 18 | | |
| | Calcutta | E | ePKP | 16 | 00 | 33 | | |
| | | | e | | 01 | 07 | | |
| | | | e | | 04 | 55 | | |
| | | | e | | 11 | 33 | | |
| | | | e | | 24 | 45 | | |
| | | | e | | 44 | 45 | | |
| | | | e | | 52 | 30 | | |
| | Bokaro | NE E | PKP2 | 16 | 00 | 53 | 17440 | |
| | | | e | | 02 | 02 | | |
| | | | PP | | 04 | 32 | | |
| | | | e | | 07 | 34 | | |
| | | | e | | 08 | 34 | | |
| | | | e | | 11 | 02 | | |
| | | | e | | 12 | 14 | | |
| | | | i | | 14 | 36 | | |
| | | | PPS | | 17 | 47 | | |
| | | | SS | | 24 | 17 | | |
| | | | i | | 24 | 32 | | |
| | | | LQ | | 29 | 36 | | |
| | | | LR | | 33 | 59 | | |
| | | | . M | | 54 | 43 | | |
| | | | | | | | | Period=37sec. Gr.dis=18/t |
| 13 | Epc: 51 $\frac{1}{2}$ ^o N, 180 ^o E, Andreanof Islands, Aleutian Islands. -H = 16 h. 29 m. 41 s. (U.S.C.G.S.). | | | | | | | |
| | Shillong | Z | iP | 16 | 40 | 52 | | Slight, distant, compression. |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|----------------------|------------|--------|-----------|----|----------|----------|-----------------|---|
| | | | | h. | m. | s. | | |
| <u>January, 1960</u> | | | | | | | | |
| | Chatra | Z E | iP S | 16 | 41 50 | 05 30 | 8080 | Slight |
| | Poona | Z | eP | 16 | 42 | 21 | | Slight, compression, phases not clear. |
| 13 | Shillong | Z | eP | 16 | 49 | 56 | | Slight, distant. |
| 13 | Shillong | Z | eP | 17 | 08 | 55 | | Slight, distant. |
| 13 | Shillong | Z | iP | 18 | 49 | 33 | | Slight, distant rarefaction. |
| 13 | Chatra | Z | iP | 21 | 44 | 29 | | Feeble, rarefaction. |
| | Shillong | Z | iP | 21 | 45 | 10 | | Slight, distant rarefaction. |
| 13 | Shillong | Z | iP i | 23 | 39 39 | 37 56 | | Slight, near, rarefaction. |
| | Chatra | Z | P? | 23 | 39 | 58 | | Feeble. |
| 14 | Chatra | Z | iPg Sg | 01 | 26 26 | 36 56 | 160 | Feeble, initial ground movement towards North and rarefaction. |
| 14 | Port Blair | E | i | 02 | 44 | 52 | | Slight. |
| | Shillong | Z | iP | 02 | 46 | 13 | | Slight, distant rarefaction. |
| | Chatra | Z | P | 02 | 46 | 41 | | Feeble. |
| 14 | Poona | Z | iP | 10 | 05 | 55 | | Feeble, compression other phases not clear. |
| 14 | Shillong | ZE | iP | 10 | 33 | 43 | | Slight, distant, compression. |
| | Chatra | Z | P | 10 | 34 | 10 | | Feeble. |
| 14 | Shillong | Z | eP | 13 | 03 | 15 | | Slight, distant. |
| 14 | Port Blair | E | i | 13 | 18 | 53 | | Slight. |
| 14 | Shillong | Z | iP | 14 | 08 | 29 | | Slight, local rarefaction. |
| 14 | Shillong | Z | eP | 14 | 20 | 40 | | Slight, distant. |
| 14 | Shillong | Z | iP | 16 | 07 | 14 | | Slight, distant, rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ km. | REMARKS |
|-----------------------|--|--------|-------------------|-------------------|-----------------|--|
| <u>January, 1960.</u> | | | | | | |
| 14 | Dehra Dun | NE | e | 16 14 47 | | Tremor. |
| | Shillong | Z | iP | 16 17 15 | | Slight, distant compression. |
| 14 | Shillong | Z | eP | 19 07 13 | | Slight, near. |
| 14 | Shillong | Z | iP | 19 16 05 | | Slight, distant rarefaction. |
| 14 | Shillong | Z | iP | 21 03 59 | | Slight, distant compression. |
| 14 | Shillong | Z | iP i | 22 00 05 00 18 | | Slight, near rarefaction |
| 15 | Shillong | Z | iP | 02 37 26 | | Slight, distant compression. |
| 15 | Epc: 15°S, 75°W, Near Coast of Southern Peru. -H = 09 h.30 m. 24 s. h = about 150 km. (USCGS). 4 injured and minor damage in Ica Provinces, Felt in Lima area. Mag: 7 (Pas), 6½ (Berk). | | | | | |
| | Bombay | NE | ePKP ₁ | 09 49 59 | 16370 | |
| | | E | PP | 53 33 | | |
| | | NE | e | 53 46 | | |
| | | E | PPP | 56 55 | | |
| | | | e | 10 00 37 | | |
| | | NE | e | 13 49 | | |
| | | E | M | 54 41 | | |
| | | N | M | 57 09 | | Period = 22 Sec. Gr. dis = 11/μ Period = 17 Sec. Gr. dis = 8 /μ |
| | Poona | Z | PKP ₁ | 09 50 00 | 16560 | Compression. |
| | | N | PP | 53 40 | | |
| | | | PPP | 57 08 | | |
| | | | e | 10 00 59 | | |
| | | | e | 03 49 | | |
| | | | SS | 12 38 | | |
| | | | SSP | 13 16 | | |
| | | | SSS | 18 10 | | |
| | | | LQ | 32 19 | | |
| | | | LR | 39 21 | | |
| | | | Mn | 11 02 04 | | Period = 18 Sec. Gr. dis. = 10 /μ |
| | Agra | ZNE | iPKP | 09 50 01 | 16610 | Initial ground movement towards North, East and compression. |
| | | Z | i? | 50 19 | | |
| | | ZNE | i? | 50 26 | | |
| | | | iPP | 53 43 | | |
| | | ZE | i? | 54 03 | | |
| | | | i? | 55 59 | | |
| | | E | i? | 10 04 11 | | |
| | | Z | i? | 04 33 | | |
| | | NE | i? | 06 56 | | |

| Date | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------|------------|--|---|--|-----------------|---|
| | Hyderabad | E | ePKP e i a | 09 50 07 50 39 54 03 56 36 | | |
| | Dehra Dun | NE | iPKP iPP | 09 50 09 54 02 | 16910 | Other phases not clear. |
| | Kodaikanal | E | PKP | 09 50 09 | | |
| | Chatra | Z | PKP ₁ | 09 50 13 | | |
| | Bokaro | NE E | PKP ₁ PKP ₂ PKS ₁ PP ₁ SKS ₂ PPP SKKS ₁ PPS ₁ | 09 50 14 50 53 52 50 54 35 57 20 58 16 10 01 20 07 27 | 17670 | |
| | Shillong | Z N Z N E N | iPKP ₁ iPKP ₁ i ² iPP i i i i Mn | 09 50 15 51 07 53 21 54 57 66 11 10 04 11 06 11 15 58 22 02 11 13 - | 18220 | Compression. Period = 19 Sec. Gr. dis. = 16 μ |
| | Calcutta | E | e PKP ₂ PP ₂ e e e e | 09 50 18 50 51 54 31 10 01 41 14 01 19 41 58 31 | | |
| 15 | Shillong | Z | iP | 13 20 08 | | Slight, near rarefaction. |
| 15 | Port Blair | E | i i i | 15 20 23 25 22 31 53 | | Slight. |
| 15 | Shillong | Z | iP | 17 18 37 | | Slight, distant compression. |
| | Chatra | Z | iP | 17 19 09 | | Feeble, compression. |
| 15 | Shillong | Z | iP | 18 00 24 | | Slight, local. |
| 15 | Shillong | Z | iP | 20 20 17 | | Slight, distant, rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ km. | REMARKS |
|----------------------|---|-------|-------|----------|-----------------|---|
| <u>January, 1960</u> | | | | | | |
| 15 | Shillong | Z | iP | 23 46 23 | | Slight, distant, compression. |
| | Chatra | Z | iP | 23 46 57 | | Feeble, rarefaction. |
| 15 | Shillong | Z | iP | 23 51 53 | | Slight, distant, rarefaction. |
| 16 | Shillong | Z | eP | 00 10 40 | | Slight, near. |
| | Chatra | Z | eP | 00 11 34 | | Mild. |
| 16 | Shillong | Z | eP | 07 55 30 | | Slight, distant. |
| 16 | Shillong | Z | iP | 16 17 07 | | Slight, near. |
| 16 | Shillong | Z | iP | 18 44 27 | | Slight, distant, compression. |
| 16 | Shillong | Z | iP | 18 50 48 | | Slight, distant, compression. |
| 16 | Shillong | Z | iP | 19 42 54 | | Slight, distant, compression. |
| 16 | Shillong | Z | iP | 21 01 21 | | Slight, distant, compression. |
| | Chatra | Z | iP | 21 01 26 | | Feeble, distant, compression. |
| 16 | Shillong | Z | iP | 21 53 35 | | Slight, distant, compression. |
| 16 | Shillong | Z | iP | 22 01 34 | | Slight, distant, compression. |
| 16 | Shillong | Z | iP | 23 43 16 | | Slight, distant, rarefaction. |
| 17 | Shillong | Z | i | 03 16 31 | | |
| 17 | Epc : $14\frac{1}{2}^{\circ}$ S, $74\frac{1}{2}^{\circ}$ W, Near Coast of Southern Peru, -H = 02 h. 57 m. 58 s. (U.S.C.G.S.) h = about 150 km. Mag. $6\frac{1}{4}$ (Pas). | | | | | |
| | Poona | Z | iPKP | 03 17 34 | | Feeble, compression, other phases not clear. |
| | Shillong | Z | IPKP | 03 17 47 | | Slight, distant, compression. |
| 17 | Shillong | Z | iP | 03 42 21 | | Slight, distant, compression. |

| DATE | STATION | COMPT. | PHASE | G.M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|---|---------|------------------------|-------------------------------------|-----------------|---------------------------------------|
| <u>January, 1960.</u> | | | | | | |
| 17 | Shillong | Z | eP | 04 13 22 | | Slight, distant. |
| 17 | Shillong | Z | iP | 04 27 21 | | Slight, distant rarefaction. |
| 17 | Chatra | Z | iP | 04 27 46 | | Feeble, distant, compression. |
| 17 | Shillong | Z | iP | 05 20 51 | | Slight, distant, compression. |
| 17 | Shillong | Z | eP | 11 36 31 | | Slight, distant. |
| 17 | Shillong | Z | eP | 19 00 17 | | Slight, distant. |
| 17 | Shillong | Z | eP | 21 26 49 | | Slight, distant. |
| | Chatra | Z | iP Sg? | 21 28 34 28 41 | 130 | Feeble, compression. |
| 17 | Shillong | Z | iP | 21 37 22 | | Slight, distant, compression. |
| 17 | Dehra Dun | NE | e i | 21 48 05 50 06 | | Feeble. |
| | Chatra | Z | eP | 21 49 27 | | Feeble, distant. |
| | Shillong | Z | iP | 21 50 13 | | Slight, distant, rarefaction. |
| 17 | Chatra | Z | iP | 23 01 13 | | Feeble, rarefaction. |
| 18 | Epc: 5° N, 126½° E, Off South Coast of Mindanao, P.I., Felt General Santos and Davo. -H = 09 h. 04 m. 43 s (USCGS) | | | | | |
| | Chatra | Z | eP | 09 12 37 | | Feeble, compression. |
| | Agra | Z | iP iS | 09 13 45 20 45 | 5370 | Slight, rarefaction. |
| | Poona | Z | iP | 09 13 55 | | Feeble, compression phases not clear. |
| | Bomba | E NE | e eS | 09 14 11 21 24 | | Slight. |
| | Kodaikanal | E | e | 09 24 19 | | |
| 18 | Shillong | Z | iPg iP iSg iS | 13 47 03 47 04 47 18 47 20 | 130 | Slight, rarefaction. |
| 18 | Shillong | Z | iP | 14 44 17 | | Slight, distant rarefaction. |
| 18 | Shillong | Z | eP | 16 35 03 | | Slight, near. |
| 18 | Shillong | Z | iP | 16 53 53 | | Slight, distant compression. |

| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ km. | REMARKS |
|-----------------------|--|--------|-------|----------|-----------------|--|
| <u>January, 1960.</u> | | | | | | |
| 18 | Shillong | Z | iP | | | Slight, distant rarefaction. |
| 18 | Shillong | Z | iP | 19 49 50 | | Slight, distant rarefaction. |
| 18 | Shillong | Z | iP | 21 08 24 | 140 | Slight, compression felt at Shillong. |
| | | | Pg | 08 25 | | |
| | | | PP | 08 32 | | |
| | | | PPP | 08 36 | | |
| | | ZE | iS | 08 42 | | |
| | | Z | SS | 08 55 | | |
| | | | SSS | 09 02 | | |
| | Chatra | Z | eP | 21 08 39 | | Mild. |
| 18 | Epc: Southern Pakistan. -H = 22 h. 00 m. 40 s. (USCGS). | | | | | |
| | Dehra Dun | NE | iS | 22 02 13 | 1070 | Slight. |
| | | | SSS | 04 03 | | |
| | | | M | 04 27 | | |
| | | | | 05 11 | | |
| | Agra | ZNE | eP | 22 03 51 | | Slight. |
| | Poona | Z | eP | 22 03 53 | | Feeble, other phases not clear. |
| | Chatra | Z | eP | 22 04 57 | | Feeble . |
| | | | S | 08 04 | | |
| | Shillong | Z | iP | 22 05 50 | | Slight, distant rarefaction. |
| | Bombay | E | e | 22 06 34 | | Slight, near. |
| | | NE | e | 07 03 | | |
| | | E | e | 07 14 | | |
| | | | e | 07 38 | | |
| | Bokaro | NE | eP | 22 07 57 | 1320 | Slight. |
| | | N | LQ | 09 57 | | |
| | | | iS | 10 12 | | |
| | | | SSS | 10 50 | | |
| | | | M | 11 34 | | |
| | Calcutta | E | e | 22 09 30 | | Slight. |
| | | | i | 14 23 | | |
| 18 | Shillong | Z | iP | 23 18 26 | | Slight, distant compression. |
| 19 | Chatra | Z | ePn | 00 01 23 | | Mild near. |
| 19 | Poona | Z | iP | 02 28 21 | | Feeble, compression, other phases not clear. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|----------|--------|----------|----------------------|-----------------|----------------------------------|
| <u>January, 1960.</u> | | | | | | |
| 19 | Chatra | Z | eP | 06 33 02 | | Feeble, near. |
| | Shillong | Z E | eP iS | 06 33 30 35 37 | 1240 | Slight. |
| | Dehradun | E | e | 06 36 27 | | Tremor. |
| | Bombay | E | e | 06 41 53 | | Surface waves. |
| 19 | Shillong | Z | e | 09 27 41 | | Slight, near. |
| 19 | Shillong | Z | i | 09 29 47 | | Slight, distant. |
| 19 | Shillong | Z | iP | 16 18 49 | | Slight, distant, compression. |
| | Chatra | Z | iP | 16 19 19 | | Feeble, compression. |
| 19 | Shillong | Z | iP | 16 24 11 | | Slight, distant, compression. |
| 19 | Shillong | Z | iP | 19 45 09 | | Slight, distant, compression. |
| 19 | Shillong | Z | e i | 20 41 38 42 01 | | Slight, near. |
| 19 | Shillong | Z | e i | 21 39 48 39 54 | | Slight, near. |
| 20 | Shillong | Z | iP iS | 00 54 55 55 12 | 140 | Slight, locally felt. |
| | Chatra | Z | iP | 00 55 45 | | Feeble, rarefaction. |
| 20 | Shillong | Z | i | 05 22 53 | | Slight, near. |
| 20 | Shillong | Z | e e | 11 07 09 07 28 | | Slight, near. |
| 20 | Shillong | Z | iP | 20 07 11 | | Slight, distant, compression. |
| 20 | Dehradun | NE | e | 23 43 44 | | Tremor. |
| | Chatra | Z | P | 23 45 27 | | Feeble. |
| | Shillong | Z | eP | 23 46 14 | | Slight, distant. |
| 21 | Chatra | Z | P | 08 08 55 | | Feeble. |
| 21 | Shillong | Z | iP | 09 01 45 | | Slight, near, compression. |
| 21 | Bombay | E | e | 11 10 30 | | Slight. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|----------------------|------------|-------|-----------|----------------------|-----------------|-------------------------------|
| <u>January, 1960</u> | | | | | | |
| 21 | Shillong | Z | iP | 15 54 40 | | Slight, distant, rarefaction. |
| 21 | Shillong | Z | iP | 15 57 13 | | Slight, distant, rarefaction. |
| 21 | Shillong | Z | iP | 16 51 13 | | Slight, distant, rarefaction. |
| 21 | Shillong | Z | iP | 16 59 36 | | Slight, near. |
| 21 | Kodaikanal | E | e | 17 09 16 | | Tremor. |
| 21 | Shillong | Z | eP | 20 11 45 | | Feeble, local. |
| 21 | Shillong | Z | iP | 20 50 46 | | Slight, distant, rarefaction. |
| 21 | Shillong | Z | eP | 23 08 45 | | Slight, near. |
| 22 | Shillong | Z | iP | 00 20 32 | | Slight, near, rarefaction. |
| 22 | Shillong | Z | iP | 02 22 33 | | Slight, distant, compression |
| 22 | Shillong | Z | iP | 07 47 18 | | Slight, distant, rarefaction. |
| 22 | Shillong | Z | iP | 13 43 41 | | Slight, distant, compression. |
| | Chatra | Z | eP | 13 44 15 | | Feeble. |
| | Shillong | Z | i | 13 49 27 | | |
| 22 | Shillong | Z | iP | 15 08 19 | | Slight, distant, compression. |
| 22 | Chatra | Z | iPg Sg | 15 35 07 35 17 | 70 | Feeble, rarefaction. |
| | Shillong | Z | e | 15 35 48 | | Slight, near. |
| 22 | Shillong | Z | iP | 16 28 02 | | Slight, distant, rarefaction. |
| 22 | Dehra Dun | NE | e i | 17 06 32 06 42 | | Feeble. |
| 22 | Shillong | Z | iP | 18 39 22 | | Slight, distant, compression. |
| 23 | Shillong | Z | iP | 01 40 29 41 04 | 310 | Slight, near. |
| | Chatra | Z | iP S? | 01 41 23 42 27 | | Feeble, compression. |
| 23 | Shillong | Z | iP | 02 45 44 | | Slight, distant, compression. |
| 23 | Shillong | Z | iP iS | 03 54 08 54 46 | 340 | Slight, compression. |
| 23 | Shillong | Z | i | 04 30 33 | | |

23 Epc :- 4°S, 127½°E, Ceram Island Region.
 -H = 04h 40m 56s (USCGS).
 Mag. 6½ (Pas).

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|----------------------|------------|----------------------------|---|---|----------|---|
| <u>January, 1960</u> | | | | | | |
| 23 | Port Blair | N | eP eS | 04 48 27 54 13 | 4110 | |
| | Shillong | ZNE Z E N | iP e PP e iS e SS e | 04 49 21 50 28 51 20 52 46 56 02 57 29 04 59 29 05 01 44 | 5030 | Initial ground movement towards North West and compression. |
| | Bokaro | NE N | iP e PP PPF iS PPS e SS i | 04 49 49 51 10 51 40 52 42 56 56 57 13 59 25 05 00 11 01 15 | 5500 | |
| | Chatra | Z | iP | 04 49 53 57 02 | 5520 | Initial ground movement towards North West and compression. |
| | Kodaikanal | E | iP PP PPP iS PS PPS i i SSS M | 04 50 04 52 04 53 08 57 31 58 04 58 14 58 55 05 01 49 02 53 09 49 | 5850 | Initial ground movement towards West. |
| | Hyderabad | NE N N E N | iP PcP PP PPP iS PPS ScS SS SSS LR LR M M | 04 50 18 51 32 52 14 53 15 57 45 58 14 59 36 05 01 33 03 11 06 08 06 24 10 16 10 18 | 5850 | Initial ground movement North and West. Period = 12 secs. Gr.dis. = 2/u Period = 12 secs. Gr.dis. = 3/u |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|----------------------|--|--------|--------|----------------------|----------|--|
| <u>January 1960.</u> | | | | | | |
| 23 | Aga | ZNE | iP | 04 50 46 | 6330 | Initial ground movement towards North, West and compression. |
| | | Z | i? | 51 24 | | |
| | | | PP | 52 54 | | |
| | | ZE | i? | 53 38 | | |
| | | ZNE | Ps,ScP | 55 34 | | |
| | | E | IS | 58 40 | | |
| | | | PS | 58 56 | | |
| | | | i? | 59 18 | | |
| | | N | ScS | 05 00 46 | | |
| | | | i? | 01 22 | | |
| | | ZNE | e | 03 08 | | |
| | Poona | E | iP | 04 50 51 | 6420 | Initial ground movement towards West. |
| | | | PcP | 51 34 | | |
| | | | PP | 53 04 | | |
| | | | PPP | 54 25 | | |
| | | | iS | 58 49 | | |
| | | | PS | 59 01 | | |
| | | | ScS | 05 00 18 | | |
| | | | LQ | 05 06 | | |
| | | | LR | 07 48 | | |
| | Bombay | N | eP | 04 50 57 | 6440 | |
| | | E | iP | | | |
| | | NE | eS | 58 57 | | |
| | | E | PS | 59 12 | | |
| | | NE | PPS | 59 26 | | |
| | | N | SS | 05 03 07 | | |
| | | NE | LQ | 05 50 | | |
| | | N | M | 21 20 | | |
| | Dehra Dun | NE | eP | 04 50 58 | 6500 | |
| | | N | PP | 53 28 | | |
| | | | PPP | 54 38 | | |
| | | | iS | 59 01 | | |
| | | | SS | 05 02 37 | | |
| | | | SSS | 05 17 | | |
| | | | LQ | 05 38 | | |
| | | | LR | 08 11 | | |
| | | | M | 13 19 | | |
| 23 | Shillong | Z | iP | 07 36 31 | | Slight, near compression. |
| 23 | Epc: 4°S, 127½° E, Ceram Islands Region. | | | | | |
| | -H = 07 h. 31 m. 14 s (USCGS). | | | | | |
| | Mag: 6½ (Pas). | | | | | |
| | Port Blair | N | eP | 07 38 42 | 4150 | |
| | | | eS | 44 31 | | |
| | Shillong | ZNE | iP | 07 39 39 | 4940 | Initial ground movement towards North, West and compression. |
| | | Z | e | 40 49 | | |
| | | E | PP | 41 21 | | |
| | | | e | 41 31 | | |
| | | | PPP | 41 35 | | |
| | | | e | 42 46 | | |
| | | N | iS | 46 15 | | |
| | | | SS | 48 24 | | |
| | | E | e | 51 01 | | |
| | | | e | 52 52 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|-----------------------|------------|--|--|---|----------|--|
| <u>January, 1962.</u> | | | | | | |
| 23 | Calcutta | E | iP iS | 07 39 50 46 41 | 5210 | Initial ground movement towards West. |
| | Bokaro | NE N | iP e PP PPP iS SS | 07 40 06 41 34 41 55 42 49 47 13 49 23 | 5490 | |
| | Chatra | Z NE | P S | 07 40 11 47 19 | 5510 | Initial ground movement towards North, West and compression. |
| | Kodaikanal | E | iP EP eS PS PPS i SS SSS LR M | 07 40 28 43 36 47 49 48 01 48 08 48 38 51 34 53 09 55 53 08 00 27 | 5740 | Initial ground movement towards West. |
| | Hyderabad | NE N | iP PoP eS PS PPS PoS SS SSS LR M | 07 40 33 41 22 48 01 48 14 48 27 49 51 51 36 53 40 55 20 59 18 | 5870 | Moderate. Period = 12 Sec. Gr. dis. = 3 μ |
| | Agra | ZNE ZE Z ZE ZNE E E N NE | iP i? PoP PP i? PPP iS i? i? SoS SS i? SSS LQ i? i? LR | 07 41 00 41 19 41 41 43 07 44 20 44 38 48 58 49 06 49 34 49 59 50 51 53 11 54 27 55 07 55 15 57 06 58 04 59 00 | 6310 | Initial ground movement towards North West and compression. |
| | Poona | ZNE N | iP PoP PP PPP PoS iS PS PPS SS SSS | 07 41 08 42 00 43 17 44 36 45 54 49 02 49 14 49 38 52 47 55 02 | 6330 | Initial ground movement towards North, West and compression. |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|----------------------|---|---------|---|----|----|----|-----------------|------------------------------|
| <u>January, 1960</u> | | | | | | | | |
| 23 | Bombay | NE E | iP PP PoS eS | 07 | 41 | 13 | 6300 | |
| | | NE | PS PPS | | 49 | 13 | | |
| | | N | e e LQ M | | 50 | 06 | | |
| | | | | 08 | 12 | 15 | | Period=15sec.Gr.dis=4/u |
| | Dehra Dun | NE N | eP PP PPP iS SS SSS LR M | 07 | 41 | 16 | 6410 | |
| | | | | | 43 | 22 | | |
| | | | | | 44 | 27 | | |
| | | | | | 49 | 14 | | |
| | | | | | 52 | 54 | | |
| | | | | | 55 | 15 | | |
| | | | | | 57 | 28 | | |
| | | | | 08 | 02 | 15 | | |
| 23 | Shillong | Z | iP | 07 | 49 | 08 | | Slight, near compression. |
| | Chatra | Z | P | 07 | 49 | 41 | | Mild. |
| 23 | Shillong | Z | iP | 07 | 50 | 33 | | Slight, distant rarefaction. |
| 23 | Chatra | Z | e | 08 | 03 | 39 | | Mild |
| 23 | Shillong | Z | iP | 08 | 12 | 33 | | Slight, distant compression. |
| 23 | Shillong | Z | iP | 08 | 22 | 40 | | Slight, distant compression. |
| 23 | Shillong | Z | eP | 08 | 27 | 20 | | Slight, distant. |
| 23 | Shillong | Z | e | 10 | 28 | 24 | | |
| 23 | Shillong | Z | ePg eP | 13 | 06 | 54 | 130 | Slight. |
| | | | | | 07 | 09 | | |
| 23 | Shillong | Z | iPg i iSg | 13 | 37 | 13 | 130 | Slight, rarefaction. |
| | | | | | 37 | 17 | | |
| | | | | | 37 | 28 | | |
| 23 | Shillong | Z | eP | 17 | 56 | 09 | | Slight, distant. |
| 23 | Epc: 4°S, 127½° E, Ceran Islands Region. -H = 17 h. 56 m. 30 s. (U.S.C.G.S.). Mag: 6½-6¾ (Pas). | | | | | | | |
| | Port Blair | N | iP iS | 18 | 03 | 57 | 4160 | |
| | | | | | 09 | 47 | | |

| DATE | STATION | COMP. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|----------------------|------------|-------|-------|----|----|----|-----------------|--|
| <u>January, 1960</u> | | | | | | | | |
| 23 | Shillong | ZNE | iP | 18 | 04 | 54 | 4970 | Initial ground movement towards North, west and compression. |
| | | Z | e | | 06 | 00 | | |
| | | N | iS | | 11 | 31 | | |
| | | | e | | 13 | 28 | | |
| | Bokaro | NE | iP | 18 | 05 | 25 | 5480 | Other phases not clear |
| | | NE | iS | | 12 | 31 | | |
| | Chatra | Z | iP | 18 | 05 | 27 | 5540 | Initial ground movement towards North, West and compression |
| | | NE | S | | 12 | 37 | | |
| | Kodaikanal | E | P | 18 | 05 | 33 | 5900 | |
| | | | S | | 13 | 03 | | |
| | | | PPS | | 13 | | | |
| | | | SS | | 16 | 42 | | |
| | | | SSS | | 18 | 30 | | |
| | | | LR | | 21 | 06 | | |
| | | | M | | 25 | 42 | | Period=15sec.Gr.dis=10/u. |
| | Hyderabad | E | iP | 18 | 05 | 50 | 5960 | |
| | | E | PP | | 07 | 50 | | |
| | | | iS | | 13 | 23 | | |
| | | | PPS | | 13 | 44 | | |
| | | | SS | | 17 | 02 | | |
| | | | SSS | | 19 | 24 | | |
| | | | LR | | 21 | 26 | | |
| | | | M | | 26 | 15 | | Period=15sec.Gr.dis=4/u. |
| | Agra | ZNE | iP | 18 | 06 | 21 | 6390 | Initial ground movement towards North, West and compression. |
| | | Z | i? | | 06 | 34 | | |
| | | | PcP | | 06 | 56 | | |
| | | ZE | PP | | 08 | 32 | | |
| | | E | PPP | | 09 | 34 | | |
| | | ZNE | iS | | 14 | 18 | | |
| | | | PS | | 14 | 32 | | |
| | | E | Sc | | 16 | 02 | | |
| | | Z | i? | | 19 | 04 | | |
| | Poona | ZNE | iP | 18 | 06 | 23 | 6440 | Initial ground movement towards North, West and compression. |
| | | N | PP | | 08 | 32 | | |
| | | | iS | | 14 | 23 | | |
| | | | PS | | 14 | 37 | | |
| | | | PPS | | 14 | 52 | | |
| | | | SS | | 18 | 17 | | |
| | | | i | | 18 | 51 | | |
| | | | SSS | | 20 | 44 | | |
| | | | M | | 28 | 40 | | |
| | Bombay | NE | eP | 18 | 06 | 31 | 6450 | |
| | | E | PPP | | 10 | 07 | | |
| | | | PcS | | 11 | 01 | | |
| | | NE | eS | | 14 | 31 | | |
| | | | PS | | 14 | 38 | | |
| | | N | LQ | | 21 | 03 | | |
| | | | M | | 33 | 30 | | Period= 21 sec. Gr. dis = 5/u. |

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| DATE | STATION | COMPT. | PHASE | G. | H. | T. | Δ km. | REMARKS |
|----------------------|--|--------|---|----|----|----|-----------------|------------------------------|
| | | | | h. | m. | s. | | |
| <u>January, 1960</u> | | | | | | | | |
| 23 | Dehra Dun | NE | eP PP PPP iS SS SSS LR M | 18 | 06 | 40 | 6450 | |
| | | | | | 08 | 53 | | |
| | | | | | 10 | 19 | | |
| | | | | | 14 | 40 | | |
| | | | | | 18 | 34 | | |
| | | | | | 20 | 31 | | |
| | | | | | 23 | 17 | | |
| | | | | | 27 | 24 | | |
| 23 | Shillong | Z | iP | 18 | 51 | 53 | | Slight, distant rarefaction. |
| 23 | Shillong | Z | eP | 19 | 40 | 27 | | Slight, distant. |
| 23. | Shillong | Z | eP | 20 | 06 | 51 | | Slight, distant. |
| 23 | Shillong | Z | eP | 20 | 52 | 57 | | Slight, distant |
| 23 | Shillong | Z | iPg iS | 21 | 12 | 17 | 20 | Feeble |
| | | | | | 12 | 20 | | |
| 23 | Shillong | Z | iP | 22 | 07 | 59 | | Slight, distant compression. |
| 23 | Shillong | Z | iP | 22 | 29 | 56 | | Slight, distant compression. |
| 23 | Shillong | Z | iP | 22 | 39 | 36 | | Slight, distant compression |
| 23 | Shillong | Z | iP | 23 | 32 | 16 | | Slight, distant compression. |
| 23 | Shillong | Z | eP | 23 | 37 | 12 | | Slight, distant. |
| 23 | Shillong | Z | eP | 23 | 48 | 21 | | Slight, distant. |
| 23 | Shillong | Z | iP | 23 | 50 | 18 | | Slight, distant rarefaction. |
| 23 | Shillong | Z | iP | 23 | 56 | 17 | | Slight, distant compression. |
| | Chatra | Z | P | 23 | 56 | 49 | | Feeble, compression |
| 24 | Shillong | Z | iP | 01 | 15 | 25 | | Slight, distant compression. |
| | Chatra | Z | P | 01 | 15 | 59 | | Feeble, compression |
| 24 | Shillong | Z | iP | 03 | 29 | 45 | | Slight, distant compression. |
| 24 | Epc: $15\frac{1}{2}^{\circ}$ S, 179° W, Fiji Islands. -H = 04 h. 21 m. 42 s. (U.S.C.G.S.). Mag: $6\frac{1}{4}$ - $6\frac{1}{2}$ (Pas). $6-6\frac{1}{4}$ (Berk). | | | | | | | |

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| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | P. s. | Δ km. | REMARKS |
|----------------------|------------|--------|-------|-------|-------|-------|--------------|------------------------------|
| <u>January, 1960</u> | | | | | | | | |
| 24 | Shillong | Z | iP | 04 | 35 | 12 | | Rarefaction. |
| | | E | PP | | 39 | 04 | | |
| | | | i | | 45 | 52 | | |
| | | | FS | | 47 | 48 | | |
| | | | PPS | | 48 | 25 | | |
| | Port Blair | E | eP | 04 | 35 | 45 | | |
| | | | e | | 45 | 31 | | |
| | Chatra | Z | e | 04 | 39 | 36 | | Slight, distant. |
| | Bokaro | NE | eP | 04 | 39 | 48 | 4810 | Phases not clear. |
| | | | e | | 46 | 16 | | |
| | Delhra Dun | NE | e | 04 | 40 | 22 | | Feeble |
| | | | i | | 47 | 54 | | |
| | | | i | | 50 | 10 | | |
| | Poona | Z | ePKP | 04 | 40 | 42 | | Phases not clear. |
| | Bombay | E | e | 04 | 40 | 56 | | Period=17 sec. |
| | | | e | | 50 | 52 | | Gr. dis =2 u. |
| | | N | M | 05 | 37 | 08 | | |
| 24 | Delhra Dun | NE | e | 05 | 06 | 50 | | |
| | | | i | | 09 | 11 | | |
| | Chatra | Z | P | 05 | 08 | 00 | | Slight. |
| | Shillong | Z | eP | 05 | 08 | 49 | | Slight, distant. |
| 24 | Shillong | Z | iP | 09 | 22 | 53 | | Slight, distant compression. |
| 24 | Shillong | Z | iPg | 09 | 32 | 05 | 100 | Feeble, compression. |
| | | | iSg | | 32 | 16 | | |
| 24 | Shillong | Z | eP | 10 | 29 | 05 | | Slight, distant |
| 24 | Shillong | Z | iP | 12 | 15 | 48 | | Slight, distant compression. |
| 24 | Shillong | Z | iP | 12 | 26 | 13 | | Slight, distant rarefaction. |
| 24 | Shillong | Z | iP | 12 | 44 | 17 | | Slight, near. |
| 24 | Shillong | Z | iP | 15 | 01 | 02 | | Slight, distant compression. |
| 24 | Shillong | Z | iP | 15 | 47 | 14 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 15 | 47 | 42 | | Feeble, compression. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h m s | Δ km. | REMARKS |
|------|----------|-------|--|--|-----------------|----------------------------------|
| 24 | Poona | Z | e? | 15 51 55 | | Mild, phases not clear. |
| 24 | Shillong | Z | iP | 17 09 14 | | Slight, distant, rarefaction. |
| 24 | Calcutta | N | iPg eSg | 17 15 06 15 14 | 70 | Slight, South. |
| 24 | Shillong | Z | e | 17 16 18 | | Tremor. |
| 24 | Shillong | Z | e | 18 43 52 | | Tremor. |
| 24 | Shillong | Z | eP | 19 10 54 | | Slight, distant. |
| 24 | Shillong | Z | iP | 21 18 55 | | Slight, distant, compression. |
| 24 | Shillong | Z | iP, P* Pg PP iSg S | 21 25 45 25 46 25 52 26 00 26 03 | 130 | Slight, compression. |
| 24 | Shillong | Z | iP | 22 02 34 | | Slight, distant, rarefaction. |
| 24 | Shillong | Z | iP* P PP iSg S | 22 47 51 47 52 47 59 48 06 48 08 | 130 | Slight, compression. |
| 24 | Shillong | Z | iP | 23 53 44 | | Slight, near, rarefaction. |
| 24 | Shillong | Z | iPg P* P iSg S* PPP | 23 53 03 53 04 53 06 53 11 53 12 53 18 | 60 | Foible. |
| 24 | Shillong | Z | iP | 23 57 32 | | Slight, near, rarefaction. |
| 25 | Shillong | Z | iP | 00 25 01 | | Slight, distant, compression. |
| 25 | Shillong | Z | iP Pg PP LQ LR iS S* | 00 34 17 34 21 34 23 34 42 34 51 34 53 35 00 | 320 | Slight, rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|-------------|--------|------------------|-------------------------------------|-----------------|-------------------------------|
| <u>January, 1960.</u> | | | | | | |
| 25 | Shillong | Z | iP | 08 56 13 | | Slight, distant compression. |
| | Chatra | Z | P | 08 56 27 | | Feeble, distant compression. |
| 25 | Dehra Dun | NE | e | 10 09 06 | | Tremor. |
| 25 | Shillong | Z | e | 11 25 52 | | Slight, distant. |
| 25 | Shillong | Z | iP | 11 43 39 | | Slight, distant compression. |
| 25 | Shillong | Z | iPg | 15 05 29 | | Slight, local compression. |
| 25 | Shillong | Z | eP | 16 42 56 | | Slight, distant. |
| 25 | Bombay | E N | e M | 16 59 44 17 56 - | | Very slight. |
| 25 | Shillong | Z | iPg iSg | 17 02 20 02 31 | 100 | Slight, rarefaction. |
| 25 | Shillong | Z | ePg eSg | 18 32 04 32 07 | 20 | Feeble. |
| | Dehra Dun | NE | e i | 18 32 34 33 31 | | Feeble. |
| | Chatra | Z | P | 18 33 40 | | Feeble . |
| 25 | Shillong | Z | iP | 18 34 25 | | Slight, distant rarefaction. |
| 25 | Bombay | E | e | 18 40 24 | | |
| 25 | Shillong | Z | eP | 19 23 54 | | Slight, near. |
| 26 | Vizianagram | E | eP | 07 07 17 | | Local, slight. |
| 26 | Shillong | Z | iP | 09 26 04 | | Slight, distant compression. |
| 26 | Shillong | Z | iP | 09 45 57 | | Slight, distant, compression. |
| 26 | Dehra Dun | NE | e e | 09 47 04 54 45 | | Feeble. |
| | Chatra | Z | iP | 10 00 03 | | Slight, rarefaction. |
| 26 | Shillong | Z | eP | 10 00 37 | | Slight, distant. |
| 26 | Shillong | Z | i i i i | 11 22 35 22 38 22 56 23 07 | | Slight, distant. |
| 26 | Shillong | Z | iPg | 12 34 09 | | Slight, local. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ KM. | REMARKS |
|-----------------------|------------|-------|----------------------------|--|-----------------|------------------------------------|
| <u>January, 1960.</u> | | | | | | |
| 26 | Shillong | Z | eP | 13 14 58 | | Slight, distant. |
| 26 | Chatra | Z | iP | 14 06 23 | | Feeble, compression. |
| 26 | Shillong | Z | iP | 14 51 53 | | Slight, distant, rarefaction. |
| 26 | Shillong | Z | iP | 15 02 09 | | Slight, near, rarefaction. |
| 26 | Shillong | Z | iPg iSg | 15 11 51 12 03 | 100 | Slight, compression. |
| 26 | Shillong | Z | eP i i | 15 51 43 51 45 51 57 | | Slight, near. |
| 26 | Port Blair | N | iPg iSg | 17 32 43 32 52 | 70 | Slight. |
| | Shillong | Z | iP | 17 35 43 | | Slight, distant, rarefaction. |
| 26 | Shillong | Z | iP | 17 38 16 | | Slight, distant, compression. |
| | Poona | Z | eP | 17 41 19 | | Feeble, other phases not clear. |
| 26 | Shillong | Z | e | 17 53 29 | | Slight, near. |
| 26 | Shillong | Z | iP* P PP iSg S | 18 28 48 28 49 28 55 29 00 29 03 | 110 | Slight, rarefaction. |
| | Chatra | Z | P | 18 29 34 | | Feeble. |
| 26 | Shillong | Z | eP eS | 18 50 50 50 50 | 150 | Slight. |
| 26 | Shillong | Z | e | 19 30 43 | | Slight, near. |
| 26 | Poona | Z | iP | 20 35 53 | | Feeble, other phases not clear. |
| | Chatra | Z | iP | 20 35 53 | | Feeble, compression. |
| | Shillong | Z | iP | 20 36 23 | | Slight, distant compression. |
| 26 | Shillong | Z | e | 22 39 04 | | Tremor. |
| 26 | Shillong | Z | eP | 23 24 25 | | Slight, distant. |
| 26 | Shillong | Z | iPg iSg | 23 45 41 45 57 | 130 | Slight. |

| DATE | STATION | COMP | PHASE | G. M. T. H M S | Δ km. | REMARKS |
|------|-----------|------|-----------------------------|---|-----------------|------------------------------------|
| 27 | Shillong | Z | iP Pg PP iS i | 05 31 19 31 21 31 25 31 29 31 45 | 150 | Slight. |
| 27 | Chatra | Z | iP | 05 39 29 | | Feeble, rarefaction. |
| 27 | Shillong | Z | iP | 06 36 44 | | Slight, rarefaction. |
| 27 | Shillong | Z | e | 10 54 12 | | Slight, distant. |
| 27 | Shillong | Z | e i | 13 50 17 50 25 | | Slight, distant. |
| 27 | Shillong | Z | iP | 18 34 48 | | Slight, distant, compression. |
| 27 | Shillong | Z | iP | 19 20 53 | | Slight, distant, compression. |
| 27 | Shillong | Z | iP | 23 17 17 | | Slight, distant, compression. |
| 28 | Shillong | Z | iP i | 05 30 39 31 07 | 230 | Slight, rarefaction. |
| 28 | Shillong | Z | iP iS | 05 54 36 55 03 | 230 | Slight, rarefaction. |
| 28 | Poona | Z | eP | 15 07 37 | | Feeble, other phases not clear. |
| 28 | Shillong | Z | eP | 22 00 06 | | Slight, distant. |
| 28 | Shillong | Z | iP eS | 22 52 44 53 06 | 190 | Slight, compression. |
| 29 | Dehra Dun | NE | e | 00 15 37 | | Tremor. |
| 29 | Shillong | Z | eP i i i i i | 02 33 18 33 24 33 30 33 44 33 46 33 48 | | Slight, near. |
| 29 | Shillong | Z | iP | 03 00 37 | | Slight, near, rarefaction. |
| 29 | Chatra | Z | iPg Sg | 03 13 00 13 17 | 130 | Feeble, compression. |
| | Shillong | Z | iP i | 03 15 40 14 23 | | Slight, near, compression. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | | | Δ km. | REMARKS |
|----------------------|-----------|---------|--------|----------|----|----|-----------------|---------------------------------|
| | | | | h. | m. | s. | | |
| <u>January, 1960</u> | | | | | | | | |
| 29 | Dehra Dun | NE N | eP | 07 | 35 | 52 | 350 | Slight. |
| | | | PPP | | 36 | 05 | | |
| | | | iS | | 37 | 10 | | |
| | | | SS, LR | | 37 | 29 | | |
| | | | SSS | | 37 | 41 | | |
| | | | Sg, M | | 38 | 02 | | |
| | Chatra | Z | eP | 07 | 37 | 32 | | Feeble, distant. |
| | Poona | Z | iP | 07 | 37 | 45 | 2080 | Very, Slight, rarefaction. |
| | | E | iS | | 41 | 12 | | |
| | Shillong | Z | iP | 07 | 37 | 54 | 200 | Slight, rarefaction. |
| | | | iS | | 38 | 17 | | |
| 29 | Shillong | Z | eP | 07 | 39 | 21 | | Slight, distant. |
| 29 | Bombay | E | e | 07 | 41 | 12 | | Mild, near, Tremor. |
| | | | e | | 42 | 00 | | |
| | | | e | | 43 | 00 | | |
| 29 | Bombay | NE | e | 08 | 10 | 14 | | Slight |
| 29 | Shillong | Z | iP | 08 | 20 | 18 | | Slight, distant compression. |
| | | | iP | 08 | 20 | 42 | | |
| 29 | Shillong | Z | i | 08 | 34 | 10 | | Near. |
| 29 | Shillong | Z | i | 08 | 35 | 55 | | Near. |
| 29 | Shillong | Z | eP | 08 | 36 | 00 | 180 | Slight. |
| | | | iS | | 36 | 21 | | |
| 29 | Shillong | Z | e | 16 | 53 | 56 | | Tremor. |
| 29 | Shillong | Z | e | 17 | 25 | 24 | | Tremor. |
| 29 | Shillong | Z | iP | 18 | 43 | 55 | | Slight, distant compression. |
| 29 | Shillong | Z | iP | 18 | 51 | 05 | | Slight, distant compression. |
| 29 | Shillong | Z | iPg | 19 | 10 | 40 | 80 | Slight, rarefaction. |
| | | | iSg | | 10 | 49 | | |
| 29 | Shillong | Z | eP | 19 | 49 | 47 | | Slight, distant. |
| 29 | Shillong | Z | eP | 22 | 31 | 28 | | Slight, distant |
| | | | i | | 33 | 30 | | |

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| DATE | STATION | COMPT | PHASE | G. M. T. h m s | Δ km | RE MARKS |
|-----------------------|---|---------|----------|-------------------|----------------|----------------------------------|
| <u>January, 1960.</u> | | | | | | |
| 29 | Shillong | Z | iP | 22 55 53 | | Slight, distant, rarefaction. |
| 30 | Shillong | Z | iP | 00 01 47 | | Slight, distant, rarefaction. |
| 30 | Shillong | Z | e | 00 17 53 | | Tremor. |
| 30 | Shillong | Z | iP | 00 48 07 | | Slight, distant, compression. |
| 30 | Shillong | Z | iP | 02 02 11 | | Slight, distant, compression. |
| 30 | Shillong | Z | i | 02 31 01 | | Slight, near. |
| 30 | Shillong | Z | iP | 02 53 33 | | Slight, distant, rarefaction. |
| 30 | Chatra | Z | P | 06 11 33 | | Feeble. |
| 30 | Shillong | Z | eP | 08 13 19 | | Slight, distant. |
| 30 | Chatra | Z | iP | 08 33 32 | | Feeble, compression. |
| 30 | Shillong | Z | eP | 12 06 22 | | Slight, distant. |
| 30 | Shillong | Z | iP | 11 21 55 | | Slight, near, compression. |
| 30 | Chatra | Z | iP | 15 22 21 | | Feeble, compression. |
| 30 | Shillong | Z | iP | 15 06 05 | | Slight, distant, compression. |
| 30 | Shillong | Z | eP | 15 35 59 | | Slight, distant. |
| 30 | Shillong | Z | eP | 17 04 42 | | Slight, distant. |
| 30 | Shillong | Z | eP | 17 20 54 | | Slight, distant. |
| 30 | Epc : 22° N, 144° E, Mariana Islands, Region. -H = 18 h. 38 m. 10 s. (U.S.C.G.S.). | | | | | |
| | Shillong | Z | eP | 18 46 47 | | Slight, distant. |
| | Chatra | Z | eP | 18 47 19 | | Feeble. |
| | Bombay | E NE | eP oS | 18 49 03 57 55 | 7420 | Slight. |
| 30 | Shillong | Z | e i | 18 52 14 52 33 | | Slight, near. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | A. km. | REMARKS. |
|----------------------|---|---------|---|--|-----------|---|
| <u>January, 1962</u> | | | | | | |
| 30 | Dehradun | NE | a | 18 37 47 | | Foible. |
| 30 | Shillong | Z | eP | 21 39 41 | | Slight, distant. |
| 31 | Shillong | Z | 1P | 04 15 17 | | Slight, distant, compression. |
| | Kodaikanal | E | e | 04 25 01 | | Tremor. |
| 31 | Chatra | Z | P | 04 42 46 | | Foible. |
| S | Shillong | Z | 1P | 04 45 29 | | Slight, distant, rarefaction. |
| 31 | Epc: 33 $^{\circ}$ N, 154 $^{\circ}$ E, Near East Coast of Shikoku, Japan. -H = 05 h. 08 m. 18 s. (U. S. G. S. E.) | | | | | |
| | Shillong | Z NE | 1P 1E | 05 15 37 21 32 | 4850 | Slight, compression. |
| | Chatra | Z N | P S Ma | 05 16 08 21 25 35/36 | 4800 | Moderate, Initial ground movement towards West, and compression. Period = 11 secs. Gr. dis = 41 μ |
| | Calcutta | E | eP 1S Ma | 05 16 15 22 42 37 57 | 4750 | Moderate. Period = 13 secs. Gr. dis = 39 μ |
| | Bokaro | NE N | 1P 1P 1S SS | 05 16 27 18 18 22 55 26 22 | 4830 | Moderate, initial ground movement towards North and East. Period = 19 secs. Gr. dis = 17 μ Period = 19 secs. Gr. dis = 22 μ |
| | Fort Blair | E | eP eS SS | 05 16 38 23 07 26 25 | 4830 | Slight. |
| | Dehra Dun | NE N | eP 1P 1PP 1S SS LQ SSS LR M | 05 16 58 18 52 19 11 23 54 26 50 27 50 28 20 30 34 34 46 | 5290 | Moderate. |

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| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|-----------------------|-----------|--------|----------|----|----|----|-----------------|--|
| | | | | h. | m. | s. | | |
| <u>January, 1960.</u> | | | | | | | | |
| | Agra | ZNE | iP | 05 | 17 | 03 | 5590 | Initial ground movement towards South, West and compression. |
| | | Z | i? | | 17 | 25 | | |
| | | ZE | e | | 18 | 53 | | |
| | | Z | PP | | 19 | 10 | | |
| | | N | PeS, ScP | | 22 | 02 | | |
| | | ZNE | iS | | 24 | 17 | | |
| | | E | PS | | 24 | 29 | | |
| | | N | i? | | 26 | 14 | | |
| | | E | SoS | | 26 | 50 | | |
| | | NE | SS | | 27 | 42 | | |
| | | Z | i? | | 27 | 58 | | |
| | | EN | i? | | 30 | 48 | | |
| | Hyderabad | E | eP | 05 | 17 | 36 | 5900 | Moderate Period=12 sec. Gr. dis=5 μ . Period=10 sec. Gr. dis=6 μ . |
| | | | PP | | 19 | 39 | | |
| | | N | eS | | 25 | 06 | | |
| | | E | PS | | 25 | 28 | | |
| | | | SoS | | 27 | 21 | | |
| | | | SS | | 29 | 18 | | |
| | | | LR | | 34 | 21 | | |
| | | N | LR | | 34 | 57 | | |
| | | E | N | | 37 | 20 | | |
| | | N | M | | 37 | 21 | | |
| | Poona | Z | iP | 05 | 17 | 58 | 6150 | Moderate, compression. Period=13 Sec. Gr. dis = 8 μ . |
| | | N | PeP | | 19 | 01 | | |
| | | | PP | | 20 | 02 | | |
| | | | iS | | 25 | 42 | | |
| | | | PS | | 25 | 52 | | |
| | | | PPP | | 26 | 04 | | |
| | | | LQ | | 31 | 39 | | |
| | | | LR | | 34 | 08 | | |
| | | | Mn | 05 | 44 | 45 | | |
| | | | | | | | | |
| | Bombay | NE | eP | 05 | 18 | 04 | 6550 | Slight. Period= 13 sec. Gr. dis= 9 μ . |
| | | E | PP | | 20 | 09 | | |
| | | NE | eS | | 26 | 10 | | |
| | | E | PS | | 26 | 23 | | |
| | | | SoS | | 27 | 51 | | |
| | | N | M | | 45 | 14 | | |
| | | S | M | | 45 | 33 | | |
| | | | | | | | | |
| | | | | | | | | |
| 31 | Shillong | Z | iP | 08 | 53 | 17 | 140 | Slight. |
| | | | Sg | | 53 | 34 | | |
| | Chabra | Z | P | 08 | 54 | 02 | | Feeble |
| 31 | Dohra Dun | NE | e | 11 | 24 | 58 | | Feeble. |
| | | | i | | 25 | 19 | | |
| | Shillong | Z | eP | 11 | 25 | 34 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|--|--------|-------|----------------------|-----------------|---|
| <u>January, 1960.</u> | | | | | | |
| 31 | Epc.: 34° N, 91° E, Chinghai Province, China. -H = 13 h. 52 m. 00 s. (USCGS). | | | | | |
| | Chatra | Z | iP | 13 54 00 | | Slight, compression |
| | Shillong | Z | eP | 13 54 09 | | Slight, distant. |
| | Poona | Z | iP | 13 56 53 | 2490 | Slight, compression. |
| | | E | iS | 14 00 55 | | |
| | Dehra Dun | NE | e | 13 57 22 | | Feeble. |
| | | | e | 58 23 | | |
| | Calcutta | Z | i | 13 58 48 | | Slight, beginning lost in microseisms. |
| | Bombay | NE | e | 14 01 04 | | Very slight, near. |
| | | E | e | 03 58 | | |
| | | N | M | 06 - | | |
| | | E | M | 07 - | | |
| 31 | Shillong | Z | e | 15 38 12 | | Slight, distant. |
| 31 | Shillong | Z | e | 16 20 54 | | Slight, phases not clear. |
| 31 | Shillong | Z | e | 16 40 41 | | Slight, near. |
| 31 | Port Blair | N | iPg | 19 03 25 | 80 | Slight. |
| | | | iSg | 03 35 | | |
| | Shillong | Z | eP | 19 06 14 | | Slight. |
| | | | e | 08 39 | | |
| | Chatra | Z | eP | 19 06 48 | | Feeble. |
| 31 | Shillong | Z | iPg | 20 08 51 | 130 | Slight, compression. |
| | | | iSg | 09 06 | | |
| | Chatra | Z | iP | 20 09 23 | | Feeble, compression. |
| 31 | Shillong | Z | e | 20 36 53 | | Slight. |

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Earthquake Reports

(Non Instrumental reports)

The following is the list of earthquakes that are reported by voluntary observers from different stations during the month of January, 1960.

| Place at which felt. | Date | Time at which felt G. M. T. h. m. s. | Duration in secs. | Intensity in R. F. scale | No. of shocks | Remarks. |
|----------------------|---------|--|----------------------|-----------------------------|--|----------|
| Rupsi | 4.1.60 | Between 03 55 and 04 00 | 30 secs. | V | Two at an inter- val of 5 secs. | |
| Shillong | 18.1.60 | 21 09 | 1 or 2 secs. | V | One | |
| Shillong | 20.1.60 | 00 55 | about 3 secs. | V | One | |

MICROSEISMIC TABULATION

| DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. |
|--------------------|------|-----|--|----------------------------|----------------------|------|-----|--|----------------------------|
| STATION: Shillong. | | | | | Component : E-W | | | | |
| | | | | | MONTH: January, 1960 | | | | |
| 01 | 00 | 1 | 0.3 | 4.2 | 13 | 00 | 1 | 0.4 | 4.3 |
| | 06 | 1 | 0.3 | 4.5 | | 06 | 1 | 0.3 | 4.1 |
| | 12 | 1 | 0.4 | 4.7 | | 12 | 1 | 0.3 | 4.2 |
| | 18 | 1 | 0.4 | 5.0 | | 18 | ... | - | - |
| 02 | 00 | 1 | 0.3 | 4.3 | 14 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | 3 | 0.2 | 3.7 |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 3 | 0.2 | 3.6 |
| | 18 | 1 | 0.3 | 4.6 | | 18 | 0,0 | - | - |
| 03 | 00 | 1 | 0.3 | 4.4 | 15 | 00 | 0,0 | - | - |
| | 06 | 1 | 0.4 | 5.1 | | 06 | 0,0 | - | - |
| | 12 | ... | - | - | | 12 | ... | - | - |
| | 18 | 1 | 0.2 | 3.8 | | 18 | 0,0 | - | - |
| 04 | 00 | 1 | 0.3 | 4.0 | 16 | 00 | 3 | 0.2 | 3.8 |
| | 06 | 3 | 0.2 | 3.8 | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 3 | 0.2 | 3.9 | | 12 | 1 | 0.4 | 4.6 |
| | 18 | 3 | 0.2 | 3.7 | | 18 | 1 | 0.4 | 4.5 |
| 05 | 00 | 3 | 0.2 | 3.7 | 17 | 00 | 1 | 0.4 | 4.9 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.5 | 5.0 |
| | 12 | 3 | 0.2 | 3.8 | | 12 | 1 | 0.4 | 5.0 |
| | 18 | 3 | 0.2 | 3.9 | | 18 | 1 | 0.4 | 4.8 |
| 06 | 00 | 0,0 | - | - | 18 | 00 | 1 | 0.4 | 4.7 |
| | 06 | 3 | 0.2 | 4.0 | | 06 | 1 | 0.3 | 4.1 |
| | 12 | 3 | 0.3 | 4.2 | | 12 | 1 | 0.4 | 4.5 |
| | 18 | 3 | 0.3 | 4.0 | | 18 | 1 | 0.4 | 4.4 |
| 07 | 00 | 3 | 0.2 | 3.8 | 19 | 00 | 1 | 0.3 | 4.0 |
| | 06 | 3 | 0.3 | 4.1 | | 06 | 1 | 0.3 | 4.1 |
| | 12 | 3 | 0.3 | 4.0 | | 12 | 1 | 0.3 | 3.9 |
| | 18 | 3 | 0.2 | 3.7 | | 18 | 1 | 0.3 | 4.0 |
| 08 | 00 | ... | - | - | 20 | 00 | 1 | 0.3 | 3.8 |
| | 06 | 1 | 0.3 | 4.2 | | 06 | 1 | 0.2 | 3.6 |
| | 12 | 1 | 0.4 | 4.5 | | 12 | 1 | 0.2 | 3.4 |
| | 18 | 1 | 0.3 | 4.3 | | 18 | 1 | 0.2 | 3.6 |
| 09 | 00 | 1 | 0.3 | 4.0 | 21 | 00 | 1 | 0.2 | 3.7 |
| | 06 | 1 | 0.3 | 4.1 | | 06 | 1 | 0.3 | 4.6 |
| | 12 | 1 | 0.3 | 4.0 | | 12 | 1 | 0.3 | 4.5 |
| | 18 | 3 | 0.2 | 3.8 | | 18 | 1 | 0.2 | 3.9 |
| 10 | 00 | 3 | 0.2 | 3.7 | 22 | 00 | 1 | 0.3 | 4.4 |
| | 06 | 3 | 0.2 | 3.9 | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 3 | 0.3 | 4.2 | | 12 | 1 | 0.3 | 4.5 |
| | 18 | 3 | 0.2 | 3.9 | | 18 | 1 | 0.3 | 4.6 |
| 11 | 00 | 3 | 0.2 | 3.8 | 23 | 00 | 1 | 0.3 | 4.6 |
| | 06 | 3 | 0.3 | 4.0 | | 06 | ... | - | - |
| | 12 | 1 | 0.5 | 5.1 | | 12 | 1 | 0.2 | 3.7 |
| | 18 | 1 | 0.5 | 5.3 | | 18 | ... | - | - |
| 12 | 00 | 1 | 0.6 | 5.5 | 24 | 00 | 3 | 0.3 | 4.8 |
| | 06 | 1 | 0.5 | 5.3 | | 06 | ... | - | - |
| | 12 | 1 | 0.4 | 4.5 | | 12 | 1 | 0.3 | 4.8 |
| | 18 | 1 | 0.4 | 4.6 | | 18 | 1 | 0.2 | 3.9 |

- II -

| DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | | | | | |
|-----------------------------|------|-----|--|----------------------------|-----------------|------|-----|--|----------------------------|-----------------------|--|--|--|--|
| STATION : Shillong (contd.) | | | | | Component : E-W | | | | | MONTH : January, 1960 | | | | |
| 25 | 00 | 1 | 0.2 | 3.7 | 03 | 00 | 1 | 0.7 | 3.2 | | | | | |
| | 06 | 1 | 0.3 | 4.2 | | 03 | 1 | 0.7 | 3.3 | | | | | |
| | 12 | 1 | 0.3 | 4.0 | | 06 | 1 | 0.7 | 3.4 | | | | | |
| | 18 | 1 | 0.3 | 4.3 | | 09 | 1 | 0.9 | 3.4 | | | | | |
| 26 | 00 | 1 | 0.2 | 3.8 | | 12 | 1 | 0.7 | 3.3 | | | | | |
| | 06 | 1 | 0.2 | 4.0 | | 15 | 1 | 0.9 | 3.5 | | | | | |
| | 12 | 1 | 0.2 | 3.9 | | 18 | 1 | 0.9 | 3.4 | | | | | |
| | 18 | 1 | 0.2 | 3.9 | | 21 | 1 | 0.8 | 3.5 | | | | | |
| 27 | 00 | 1 | 0.2 | 3.8 | 04 | 00 | 1 | 0.9 | 3.4 | | | | | |
| | 06 | 1 | 0.2 | 3.7 | | 03 | 1 | 0.8 | 3.6 | | | | | |
| | 12 | 1 | 0.3 | 4.3 | | 06 | 1 | 0.8 | 3.8 | | | | | |
| | 18 | 1 | 0.3 | 4.4 | | 09 | 1 | 0.8 | 3.5 | | | | | |
| 28 | 00 | 1 | 0.2 | 3.6 | | 12 | 1 | 0.7 | 3.5 | | | | | |
| | 06 | 0,0 | - | - | | 15 | 1 | 0.7 | 3.3 | | | | | |
| | 12 | 0,0 | - | - | | 18 | 1 | 0.8 | 3.4 | | | | | |
| | 18 | 0,0 | - | - | | 21 | 1 | 0.7 | 3.5 | | | | | |
| 29 | 00 | 0,0 | - | - | 05 | 00 | 1 | 0.7 | 3.4 | | | | | |
| | 06 | 1 | 0.2 | 3.9 | | 03 | 1 | 0.7 | 3.3 | | | | | |
| | 12 | 1 | 0.2 | 3.7 | | 06 | 1 | 0.7 | 3.4 | | | | | |
| | 18 | 1 | 0.2 | 3.8 | | 12 | 3 | 0.6 | 3.4 | | | | | |
| 30 | 00 | 1 | 0.2 | 3.9 | | 18 | 3 | 0.6 | 3.5 | | | | | |
| | 06 | 1 | 0.2 | 3.6 | 06 | 00 | 3 | 0.6 | 3.4 | | | | | |
| | 12 | 1 | 0.2 | 3.8 | | 06 | 3 | 0.4 | 3.8 | | | | | |
| | 18 | 0,0 | - | - | | 12 | 3 | 0.3 | 2.3 | | | | | |
| 31 | 00 | 0,0 | - | - | | 18 | 3 | 0.4 | 4.3 | | | | | |
| | 06 | ... | - | - | | 18 | 3 | 0.3 | 2.6 | | | | | |
| | 12 | 0,0 | - | - | | 18 | 3 | 0.5 | 4.1 | | | | | |
| | 18 | 0,0 | - | - | | | | 0.3 | 2.4 | | | | | |
| STATION : Bombay (Colaba) | | | | | 07 | 00 | 3 | 0.4 | 4.0 | | | | | |
| 01 | 00 | 3 | 0.6 | 4.3 | | 06 | 3 | 0.4 | 3.0 | | | | | |
| | | | 0.5 | 2.5 | | | | 0.4 | 4.0 | | | | | |
| | 03 | 1 | 0.5 | 2.8 | | 12 | 3 | 0.2 | 2.7 | | | | | |
| | 06 | 1 | 0.7 | 2.9 | | 18 | 3 | 0.5 | 4.0 | | | | | |
| | 09 | 1 | 0.7 | 2.9 | | | | 0.2 | 2.5 | | | | | |
| | 12 | 1 | 0.6 | 2.8 | | | | 0.5 | 4.5 | | | | | |
| | 15 | 1 | 0.7 | 2.7 | | | | 0.2 | 2.4 | | | | | |
| | 18 | 1 | 0.7 | 2.7 | 08 | 00 | ... | - | - | | | | | |
| | 21 | 1 | 0.6 | 2.7 | | 06 | 3 | 0.5 | 3.2 | | | | | |
| 02 | 00 | 1 | 0.6 | 2.7 | | | | 0.2 | 2.3 | | | | | |
| | 03 | 1 | 0.6 | 2.8 | | 12 | 3 | 0.5 | 3.5 | | | | | |
| | 06 | ... | - | - | | 18 | 3 | 0.3 | 2.7 | | | | | |
| | 09 | 1 | 0.7 | 2.7 | | | | 0.4 | 3.3 | | | | | |
| | 12 | 1 | 0.5 | 2.8 | | | | 0.2 | 2.0 | | | | | |
| | 15 | 1 | 0.6 | 3.2 | 09 | 00 | 3 | 0.5 | 3.6 | | | | | |
| | 18 | 1 | 0.5 | 2.7 | | | | 0.2 | 1.7 | | | | | |
| | 21 | 1 | 0.7 | 3.2 | | 06 | 2 | 0.5 | 3.6 | | | | | |
| | | | | | | 12 | 2 | 0.5 | 3.7 | | | | | |
| | | | | | | 18 | 2 | 0.4 | 3.6 | | | | | |

III

| DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. |
|--|----------|-----|-------------------------------|----------------------|------------------------------|----------|-----|-------------------------------|----------------------|
| STATION : Bombay (Colaba) (Contd) | | | | | MONTH : January, 1960 | | | | |
| 10 | 00 | 2 | 0.5 | 3.6 | 17 | 00 | 1 | 0.9 | 3.0 |
| | 06 | 2 | 0.4 | 3.3 | | 03 | 1 | 1.1 | 3.0 |
| | 12 | 2 | 0.5 | 3.4 | | 06 | 1 | 1.0 | 3.0 |
| | 18 | 2 | 0.5 | 3.7 | | 09 | 1 | 0.8 | 3.0 |
| | | | | | | 12 | 1 | 0.8 | 2.8 |
| 11 | 00 | 2 | 0.5 | 4.0 | | 15 | 1 | 1.0 | 2.7 |
| | 06 | ... | - | - | | 18 | 1 | 0.9 | 3.0 |
| | 12 | ... | - | - | | 21 | 1 | 0.9 | 2.9 |
| | 18 | ... | - | - | 18 | 00 | 1 | 0.8 | 3.2 |
| 12 | 00 | ... | - | - | | 03 | 1 | 1.0 | 2.8 |
| | 06 | 3 | 0.9 | 6.3 | | 06 | 1 | 0.7 | 2.8 |
| | | | 0.4 | 2.0 | | 12 | 3 | 0.6 | 4.2 |
| | 12 | 3 | 0.7 | 5.5 | | | | 0.5 | 2.0 |
| | | | 0.2 | 1.5 | | 18 | 3 | 0.6 | 4.5 |
| | 18 | 3 | 0.6 | 4.8 | | | | 0.4 | 2.3 |
| | | | 0.3 | 1.6 | 19 | 00 | 3 | 0.5 | 4.6 |
| 13 | 00 | 3 | 0.5 | 4.2 | | | | 0.7 | 2.8 |
| | | | 0.3 | 1.7 | | 06 | 3 | 0.6 | 4.5 |
| | 06 | 1 | 0.7 | 2.3 | | | | 0.2 | 1.8 |
| | 09 | 1 | 0.7 | 2.7 | | 12 | 3 | 0.5 | 4.2 |
| | 12 | 1 | 0.5 | 2.6 | | | | 0.3 | 2.3 |
| | 15 | 1 | 0.6 | 2.5 | | 18 | 3 | 0.6 | 4.1 |
| | 18 | ... | - | - | | | | 0.3 | 2.1 |
| | 21 | 1 | 0.7 | 2.8 | 20 | 00 | 3 | 0.6 | 4.1 |
| 14 | 00 | 1 | 0.8 | 2.8 | | | | 0.2 | 2.0 |
| | 03 | 1 | 0.9 | 2.8 | | 06 | 3 | 0.5 | 3.9 |
| | 06 | 1 | 1.0 | 2.6 | | | | 0.3 | 1.7 |
| | 09 | 1 | 0.9 | 2.7 | | 12 | 3 | 0.5 | 4.0 |
| | 12 | 1 | 0.9 | 2.5 | | | | 0.3 | 1.8 |
| | 15 | 1 | 0.8 | 2.4 | | 18 | 3 | 0.6 | 4.0 |
| | 18 | 1 | 0.6 | 2.7 | | | | 0.2 | 2.0 |
| | 21 | 1 | 0.6 | 2.5 | 21 | 00 | 3 | 0.5 | 4.2 |
| 15 | 00 | 1 | 0.7 | 2.5 | | | | 0.2 | 2.0 |
| | 03 | 1 | 0.9 | 2.6 | | 06 | 3 | 0.5 | 4.1 |
| | 06 | 1 | 0.9 | 2.7 | | | | 0.3 | 2.0 |
| | 09 | 1 | 0.9 | 2.8 | | 12 | ... | - | - |
| | 12 | ... | - | - | | 18 | 3 | 0.4 | 4.3 |
| | 15 | 1 | 0.9 | 2.8 | | | | 0.3 | 1.7 |
| | 18 | 1 | 1.0 | 2.8 | 22 | 00 | 3 | 0.5 | 4.1 |
| | 21 | 1 | 1.2 | 3.2 | | | | 0.3 | 2.0 |
| 16 | 00 | 1 | 1.3 | 3.1 | | 06 | 3 | 0.6 | 4.7 |
| | 03 | 1 | 1.2 | 3.2 | | | | 0.5 | 2.6 |
| | 06 | 1 | 1.1 | 3.0 | | 12 | 3 | 0.5 | 4.3 |
| | 09 | 1 | 1.0 | 3.1 | | | | 0.4 | 2.3 |
| | 12 | 1 | 0.9 | 3.0 | | 18 | 3 | 0.5 | 3.9 |
| | 15 | 1 | 0.9 | 2.9 | | | | 0.5 | 2.5 |
| | 18 | 1 | 1.0 | 3.0 | | | | | |
| | 21 | 1 | 1.1 | 3.0 | | | | | |

IV

| DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. |
|---|------|-----|--|----------------------------|---|------|-----|--|----------------------------|
| <u>STATION :</u> Bombay (Colaba) Contd. | | | | | <u>MONTH :</u> January, 1960 | | | | |
| 23 | 00 | 3 | 0.6 0.3 | 2.9 1.6 | 30 | 00 | 3 | 0.6 0.5 | 4.3 2.3 |
| | 06 | ... | - | - | | 06 | 3 | 0.5 | 4.2 |
| | 12 | 3 | 0.5 0.5 | 4.4 2.0 | | 12 | 3 | 0.7 0.5 | 2.4 2.6 |
| | 18 | 3 | 0.4 0.6 | 4.2 2.6 | | 18 | 3 | 0.5 0.6 0.6 | 4.2 2.6 4.3 |
| 24 | 00 | 3 | 0.6 0.4 | 4.6 2.2 | 31 | 00 | 3 | 0.5 0.4 | 2.5 4.4 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 3 | 0.7 0.3 | 4.5 2.3 | | 12 | 3 | 0.5 0.5 | 2.6 4.5 |
| | 18 | 3 | 0.5 0.3 | 4.8 2.3 | | 18 | 3 | 0.5 0.5 | 2.7 4.5 |
| 25 | 00 | 3 | 0.5 0.3 | 4.5 2.1 | <u>STATION :</u> Bokaro <u>Component :</u> E-W. | | | | |
| | 06 | 3 | 0.5 0.3 | 4.7 2.2 | 01 | 00 | 3 | 0.4 | 3.0 |
| | 12 | 3 | 0.5 0.3 | 4.3 2.5 | | 03 | 3 | 0.1 | 1.4 |
| | 18 | ... | - | - | | 06 | 3 | 0.5 | 3.2 |
| 26 | 00 | 3 | 0.5 0.2 | 4.4 1.5 | | 06 | 3 | 0.4 | 2.9 |
| | 06 | 3 | 0.6 0.4 | 4.6 2.3 | | 12 | 3 | 0.4 | 3.0 |
| | 12 | 3 | 0.5 0.2 | 4.4 2.0 | | 18 | 3 | 0.5 0.3 | 3.3 2.1 |
| | 18 | 3 | 0.4 0.3 | 4.1 1.9 | 02 | 00 | 3 | 0.3 | 2.3 |
| 27 | 00 | 3 | 0.5 0.2 | 4.2 2.0 | | 03 | 3 | 0.4 | 2.5 |
| | 06 | 3 | 0.5 0.3 | 4.1 2.0 | | 06 | 3 | 0.4 | 2.3 |
| | 12 | 3 | 0.5 0.4 | 4.4 2.4 | | 12 | 1 | 0.6 | 2.5 |
| | 18 | 3 | 0.5 0.4 | 4.1 2.4 | | 18 | 1 | 0.6 | 2.5 |
| 28 | 00 | 3 | 0.5 0.3 | 4.6 2.3 | 03 | 00 | 1 | 0.6 | 2.7 |
| | 06 | 3 | 0.4 0.3 | 4.9 2.2 | | 03 | 1 | 0.7 | 2.9 |
| | 12 | 3 | 0.5 0.2 | 5.0 2.0 | | 06 | 1 | 0.6 | 2.8 |
| | 18 | 3 | 0.4 0.2 | 5.1 1.7 | | 12 | 1 | 0.6 | 2.8 |
| 29 | 00 | 3 | 0.5 0.3 | 5.0 1.8 | | 18 | 1 | 0.7 | 2.9 |
| | 06 | 3 | 0.5 0.4 | 4.6 2.2 | 04 | 00 | 1 | 0.7 | 2.9 |
| | 12 | 3 | 0.5 0.5 | 5.0 2.5 | | 03 | 1 | 0.7 | 2.9 |
| | 18 | 3 | 0.5 0.5 | 4.3 2.2 | | 06 | 3 | 0.7 | 2.9 |
| | | | | | | 12 | 3 | 0.7 | 3.0 |
| | | | | | | 18 | 3 | 0.5 | 2.9 |
| | | | | | 05 | 00 | 3 | 0.5 | 2.9 |
| | | | | | | 03 | 3 | 0.4 | 3.1 |
| | | | | | | 06 | 3 | 0.4 | 3.5 |
| | | | | | | 12 | 3 | 0.4 | 3.7 |
| | | | | | | 18 | 3 | 0.5 | 3.7 |
| | | | | | 06 | 00 | 3 | 0.5 | 3.6 |
| | | | | | | 03 | 3 | 0.5 | 3.6 |
| | | | | | | | 3 | 0.3 | 2.3 |
| | | | | | | 06 | 3 | 0.3 | 2.2 |
| | | | | | | 12 | 3 | 0.3 | 2.5 |
| | | | | | | 18 | 3 | 0.3 | 2.4 |

V

| DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|----------------------------------|------|-----|--|---------------------------|------------------------------|------|---|--|---------------------------|
| STATION : Madras (Contd.) | | | | | MONTH : January, 1960 | | | | |
| 07 | 00 | 3 | 0.3 | 2.5 | 17 | 00 | 3 | 0.6 | 2.8 |
| | 03 | 3 | 0.3 | 2.4 | | 03 | 1 | 0.7 | 2.8 |
| | 06 | 3 | 0.3 | 2.3 | | 06 | 1 | 0.7 | 2.8 |
| | 12 | 3 | 0.3 | 2.1 | | 12 | 1 | 0.7 | 2.7 |
| | 18 | 3 | 0.4 | 2.5 | | 18 | 1 | 0.7 | 2.8 |
| 08 | 00 | ... | - | - | 18 | 00 | 1 | 0.7 | 2.8 |
| | 03 | 3 | 0.3 | 2.3 | | 03 | 1 | 0.5 | 2.7 |
| | 06 | 3 | 0.4 | 2.4 | | 06 | 1 | 0.5 | 2.7 |
| | 12 | 3 | 0.5 | 2.5 | | 12 | 1 | 0.6 | 2.7 |
| | 18 | 3 | 0.5 | 2.6 | | 18 | 1 | 0.5 | 2.9 |
| 09 | 00 | 3 | 0.5 | 2.8 | 19 | 00 | 1 | 0.5 | 3.0 |
| | 03 | 3 | 0.5 | 2.7 | | 03 | 1 | 0.7 | 3.3 |
| | 06 | 3 | 0.6 | 2.7 | | 06 | 3 | 0.6 | 3.1 |
| | 12 | 3 | 0.5 | 2.7 | | 12 | 3 | 0.6 | 3.3 |
| | 18 | 3 | 0.5 | 2.7 | | 18 | 1 | 0.7 | 3.2 |
| 10 | 00 | 3 | 0.4 | 2.7 | 20 | 00 | 1 | 0.6 | 3.4 |
| | 03 | 3 | 0.5 | 2.7 | | 03 | 3 | 0.7 | 3.4 |
| | 06 | 3 | 0.5 | 2.7 | | 06 | 3 | 0.6 | 3.2 |
| | 12 | 3 | 0.5 | 2.7 | | 12 | 3 | 0.6 | 2.9 |
| | 18 | 3 | 0.5 | 2.8 | | 18 | 3 | 0.7 | 3.0 |
| 11 | 00 | 3 | 0.5 | 3.0 | 21 | 00 | 3 | 0.6 | 2.7 |
| | 03 | 3 | 0.4 | 2.6 | | 03 | 3 | 0.7 | 3.2 |
| | 06 | 3 | 0.4 | 2.7 | | | 3 | 0.3 | 2.3 |
| | 12 | 3 | 0.4 | 2.6 | | 06 | 3 | 0.4 | 2.1 |
| | 18 | 3 | 0.4 | 2.7 | | 12 | 3 | 0.5 | 2.3 |
| | | | | | | 18 | 3 | 0.4 | 2.5 |
| 12 | 00 | 3 | 0.4 | 2.6 | 22 | 00 | 3 | 0.4 | 2.5 |
| | 03 | 3 | 0.4 | 2.7 | | 03 | 3 | 0.4 | 2.5 |
| | 06 | 3 | 0.3 | 2.5 | | 06 | 3 | 0.3 | 2.3 |
| | 12 | 3 | 0.4 | 2.6 | | 12 | 3 | 0.3 | 2.3 |
| | 18 | 3 | 0.5 | 2.7 | | 18 | 3 | 0.3 | 2.3 |
| 13 | 00 | 3 | 0.4 | 2.6 | 23 | 00 | 3 | 0.3 | 2.4 |
| | 03 | 3 | 0.4 | 2.7 | | 03 | 3 | 0.2 | 2.3 |
| | 06 | 3 | 0.4 | 2.5 | | 06 | 3 | 0.2 | 2.5 |
| | 12 | 3 | 0.3 | 2.7 | | 12 | 3 | 0.3 | 2.4 |
| | 18 | ... | - | - | | 18 | 3 | 0.4 | 2.5 |
| 14 | 00 | 3 | 0.4 | 2.8 | 24 | 00 | 3 | 0.4 | 2.6 |
| | 03 | 1 | 0.5 | 2.9 | | 03 | 3 | 0.4 | 2.7 |
| | 06 | 1 | 0.5 | 2.8 | | 06 | 3 | 0.4 | 2.7 |
| | 12 | 1 | 0.5 | 2.9 | | 12 | 3 | 0.5 | 2.6 |
| | 18 | 1 | 0.5 | 2.9 | | 18 | 3 | 0.5 | 2.7 |
| 15 | 00 | 1 | 0.5 | 2.9 | 25 | 00 | 3 | 0.5 | 2.7 |
| | 03 | 1 | 0.6 | 3.0 | | 03 | 1 | 0.5 | 3.1 |
| | 06 | 1 | 0.6 | 2.7 | | 06 | 3 | 0.5 | 3.3 |
| | 12 | 1 | 0.6 | 2.7 | | 12 | 3 | 0.5 | 3.3 |
| | 18 | 1 | 0.8 | 3.1 | | 18 | 3 | 0.5 | 3.1 |
| 16 | 00 | 1 | 0.8 | 3.7 | | | | | |
| | 03 | 1 | 0.9 | 3.4 | | | | | |
| | 06 | 3 | 0.7 | 3.2 | | | | | |
| | 12 | 3 | 0.7 | 3.0 | | | | | |
| | 18 | 3 | 0.6 | 2.9 | | | | | |

- V I -

| Date | Hour G.M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT. | K | Mean simple amplitude in m.m. | Mean period in sec. |
|----------------------------------|----------------|-----|--|------------------------|----------------------|--------------|-----|--|---------------------------|
| Station : Madras (Contd.) | | | | | January, 1960 | | | | |
| 26 | 00 | 3 | 0.5 | 3.3 | 03 | 00 | 3 | 0.4 | 3.2 |
| | 03 | 3 | 0.4 | 3.3 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 3.5 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 3.5 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.6 | | | | | |
| | | | | | 04 | 00 | 0,0 | - | - |
| 27 | 00 | 3 | 0.3 | 3.5 | | 06 | 0.. | - | - |
| | 03 | 3 | 0.4 | 4.0 | | 12 | 0.. | - | - |
| | 06 | 3 | 0.4 | 4.0 | | 18 | 0.. | - | - |
| | | 3 | 0.3 | 2.6 | | | | | |
| | 12 | 3 | 0.5 | 3.9 | 05 | 00 | 0.. | - | - |
| | | 3 | 0.4 | 2.7 | | 06 | 0.. | - | - |
| | 18 | 3 | 0.5 | 3.9 | | 12 | ... | - | - |
| | | 3 | 0.4 | 2.6 | | 18 | ... | - | - |
| 28 | 00 | 3 | 0.4 | 3.9 | 06 | 00 | ... | - | - |
| | | 3 | 0.3 | 2.5 | | 06 | 0.. | - | - |
| | 03 | 3 | 0.3 | 2.7 | | 12 | 0.. | - | - |
| | 06 | 3 | 0.3 | 2.5 | | 18 | 0.. | - | - |
| | 12 | 3 | 0.3 | 2.4 | | | | | |
| | 18 | 3 | 0.4 | 2.7 | 07 | 00 | 0.. | - | - |
| 29 | 00 | 3 | 0.4 | 2.6 | | 06 | ... | - | - |
| | 03 | 3 | 0.4 | 2.6 | | 12 | ... | - | - |
| | 06 | 3 | 0.5 | 2.7 | | 18 | ... | - | - |
| | 12 | 3 | 0.6 | 2.6 | | | | | |
| | | 3 | 0.5 | 3.7 | 08 | 00 | ... | - | - |
| | 18 | 3 | 0.5 | 2.5 | | 06 | ... | - | - |
| | | 3 | 0.7 | 3.7 | | 12 | ... | - | - |
| | | | | | | 18 | 3 | 0.4 | 2.8 |
| 30 | 00 | 3 | 0.5 | 2.6 | 09 | 00 | 3 | 0.4 | 2.7 |
| | | 3 | 0.5 | 3.7 | | 06 | 0,0 | - | - |
| | 03 | .. | - | - | | 12 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 2.6 | | 18 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 2.7 | | | | | |
| | 18 | 3 | 0.4 | 2.8 | 10 | 00 | 0,0 | - | - |
| 31 | 00 | 3 | 0.2 | 2.7 | | 06 | 0,0 | - | - |
| | 03 | ... | - | - | | 12 | 0,0 | - | - |
| | 06 | ... | - | - | | 18 | 0,0 | - | - |
| | 12 | 3 | 0.3 | 2.9 | 11 | 00 | 0,0 | - | - |
| | 18 | 3 | 0.3 | 2.8 | | 06 | 0,0 | - | - |
| | | | | | | 12 | 0,0 | - | - |
| | | | | | | 18 | 0,0 | - | - |
| STATION: Port Blair. | | | | | | | | | |
| 01 | 00 | ... | - | - | 12 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 3.3 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 3.3 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.2 | | 18 | 0,0 | - | - |
| 02 | 00 | 3 | 0.4 | 3.1 | 13 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 3.1 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 3.2 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.1 | | 18 | 0,0 | - | - |

- VII -

| Date | Hour GMT | K | Mean simple amplitude in micron | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in micron | Mean period in sec. |
|-------------------------------------|-------------|-----|--|---------------------------|-----------------------|-------------|-----|--|---------------------------|
| <u>STATION: Port Blair (Contd.)</u> | | | | | <u>January, 1960.</u> | | | | |
| 14 | 00 | 0,0 | - | - | 26 | 00 | 3 | 0.8 | 3.1 |
| | 06 | 2 | 0.4 | 2.7 | | 06 | 3 | 0.4 | 2.9 |
| | 12 | 2 | 0.4 | 2.7 | | 12 | 0,0 | - | - |
| | 18 | 2 | 0.4 | 2.7 | | 18 | 0,0 | - | - |
| 15 | 00 | 2 | 0.4 | 2.7 | 27 | 00 | 0,0 | - | - |
| | 06 | 2 | 0.8 | 2.7 | 27 | 06 | ... | - | - |
| | 12 | 2 | 0.8 | 2.7 | | 12 | ... | - | - |
| | 18 | 2 | 0.8 | 2.7 | | 18 | ... | - | - |
| 16 | 00 | 2 | 0.8 | 2.7 | 28 | 00 | ... | - | - |
| | 06 | 2 | 0.8 | 2.7 | | 06 | 1 | 0.8 | 3.4 |
| | 12 | 3 | 0.4 | 2.6 | | 12 | 1 | 0.8 | 3.4 |
| | 18 | 3 | 0.4 | 2.7 | | 18 | 1 | 0.8 | 3.4 |
| 17 | 00 | 3 | 0.4 | 2.7 | 29 | 00 | 1 | 0.8 | 3.4 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.4 | 3.3 |
| | 12 | 0,0 | - | - | | 12 | 1 | 0.4 | 3.2 |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.4 | 3.2 |
| 18 | 00 | 0,0 | - | - | 30 | 00 | 1 | 0.4 | 3.3 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.4 | 2.8 |
| | 12 | 0,0 | - | - | | 12 | 1 | 0.4 | 2.8 |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 19 | 00 | 0,0 | - | - | 31 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 2.8 | | 12 | 0.. | - | - |
| | 18 | 2 | 0.8 | 3.3 | | 18 | 0.. | - | - |
| 20 | 00 | 2 | 0.8 | 3.3 | ===== | | | | |
| | 06 | 3 | 0.8 | 3.3 | | | | | |
| | 12 | 3 | 0.4 | 3.1 | | | | | |
| | 18 | 3 | 0.4 | 3.2 | | | | | |
| 21 | 00 | 2 | 0.4 | 3.0 | | | | | |
| | 06 | 0,0 | - | - | | | | | |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | | | | | |
| 22 | 00 | 0,0 | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | ... | - | - | | | | | |
| 23 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | ... | - | - | | | | | |
| 24 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | 3 | 0.4 | 2.8 | | | | | |
| | 18 | 3 | 0.4 | 2.8 | | | | | |
| 25 | 00 | 3 | 0.8 | 2.8 | | | | | |
| | 06 | 3 | 0.8 | 3.1 | | | | | |
| | 12 | 3 | 0.8 | 3.1 | | | | | |
| | 18 | 3 | 0.8 | 3.1 | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

Feb, 1960



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| STATION | LATITUDE | LONGITUDE | HEIGHT a. s. l. (Metres) | LITHOGRAPHIC FOUNDATION | INSTRUMENT | COMPT. | PERIOD IN SECS | STATIC MAGNI- FICATION | DAMPING RATIO | PAPER SPEED mm/min. | |
|-------------|----------|-----------|--------------------------------|--|-------------------------|------------|---------------------------|------------------------------|------------------|---------------------------|---|
| BOMBAY | 18°54'N | 72°49'E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To = Tg = 7 secs | | | 30 | |
| BOKARO | 23°50'N | 85°48'E | - | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 | |
| CALCUTTA | 22°32'N | 88°22'E | (1) 7 (2) 6 | 7(Milne-Shaw) 6(Omori-Ewing) | Alluvium | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Wood-Anderson | N | 2 | 870 | Critical | 30 | |
| | | | | | Omori-Ewing | N | 16 | 32 | | 25.4 | |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| | | | | | Benioff | Z | To = 0.72 Tg = 0.45 secs. | | Critical | 50 | |
| CHATRA | 26°50'N | 87°10'E | 161 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| COLOMBO | 05°54'N | 79°52'E | 7 | Beach Sand | Benioff | Z | To = 0.72 Tg = 0.45 secs. | | Critical | 50 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| DEHRA DUN | 30°19'N | 78°02'E | 682 | Gravel | Milne-Shaw | E | 12 | 250 | 20:1 | - | |
| | | | | | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| HYDERABAD | 17°26'N | 78°27'E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| KOLAIKANAL | 10°14'N | 77°28'E | 2346 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| MADRAS | 13°00'N | 80°11'E | 15 | - | Sprengnether | E | To=Tg=72 secs | | Critical | 30 | |
| NEW DELHI | 28°35'N | 77°12'E | 207 | Massive Quartzite | | | | | | | |
| POONA | 18°32'N | 73°51'E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.6 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| PORT BLAIR | 11°49'N | 92°43'E | - | - | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 56:1 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| | | | | | Benioff | Z | To = 1.0 Tg = 0.18 | | | 60 | |
| SHILLONG | 25°34'N | 91°53'E | 1600 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Sprengnether | E | To = 6.5 Tg = 0.18 | | Critical | 30 | |
| | | | | | Wenner Accelerograph | ZNE | | | | | |
| TOCKLAI | 28°45'N | 94°45'E | - | Alluvium | Wood-Anderson | E | 0.8 | 970 | h = 0.8 | 60 | |
| VIZIANAGRAM | 18°07'N | 83°27'E | - | - | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

| DATE | STATION | COMP. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|------------------------|---|-------|-------|----------|----------|----------|-----------------|---------------------------------|
| <u>February, 1960.</u> | | | | | | | | |
| 01 | Shillong | Z | e | 00 | 25 | 26 | | Slight, distant. |
| 01 | Shillong | Z | iP | 01 | 59 | 43 | | Slight, near rarefaction. |
| 01 | Bombay | NE | e | 07 | 26 | 10 | | Very slight near. |
| | | | e | | 26 | 24 | | |
| | Poona | Z | oP | 07 | 26 | 11 | | Feeble, other phases not clear. |
| | Dehra Dun | NE | e | 07 | 27 | 20 | | Feeble. |
| | | | i | | 29 | 23 | | |
| 01 | Shillong | Z | iP | 12 | 09 | 27 | | Slight, distant compression. |
| 01 | Shillong | Z | iP | 14 | 05 | 45 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 14 | 06 | 10 | | Feeble, rarefaction. |
| | Poona | Z | iP | 14 | 07 | 43 | | Feeble, other phases not clear. |
| 01 | Shillong | Z | e | 21 | 27 | 12 | | Slight, very distant. |
| 01 | Shillong | Z | iPg | 22 | 11 | 06 | | Slight, local. |
| 01 | Fort Blair | N | e | 23 | 57 | 18 | | Slight. |
| 02 | Chatra | Z | Pg | 07 | 05 | 45 | 90 | Mild. |
| | | | Sg | | 05 | 57 | | |
| 02 | Chatra | Z | iP | 07 | 26 | 23 | | Mild. |
| 02 | Shillong | Z | eP | 08 | 08 | 10 | | Slight, near. |
| 02 | Shillong | Z | iP | 08 | 18 | 44 | | Slight, distant compression. |
| 02 | Shillong | Z | e | 08 | 44 | 41 | | Slight. |
| 02 | Shillong | Z | ePg | 09 | 50 | 40 | 90 | Slight. |
| | | | Sg | | 50 | 50 | | |
| 02 | Shillong | Z | e | 21 | 21 | 22 | | Slight. |
| 02 | Shillong | Z | iP | 23 | 47 | 44 | | Slight, distant rarefaction. |
| 02 | Shillong | Z | e | 23 | 53 | 24 | | Slight, distant. |
| 02 | Epc: $34\frac{1}{2}^{\circ}$ N, $104\frac{1}{2}^{\circ}$ E, Kansu Province, China. - H = 23 h. 51 m. 57 s. (U.S.C.G.S.). | | | | | | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | km. | REMARKS |
|------------------------|-----------|--------------|---|---|------|---|
| <u>February, 1960.</u> | | | | | | |
| | Shillong | ZNE NE | eP i i PP PPP iS i LQ i SS SSS LR M | 23 55 10 55 16 55 28 55 44 55 56 59 19 59 43 59 53 59 57 00 00 05 00 17 00 51 02 43 | 2590 | Slight, compression. |
| (3.2.60). | | | | | | |
| | Chatra | Z NE | eP i | 23 55 46 59 02 | | Slight. |
| | Bokaro | NE N E | eP i i | 23 56 17 02 12 02 29 | | Feeble, distant, phases not well developed. |
| | Dehra Dun | NE | eP eS SSS M | 23 57 01 00 01 08 02 13 04 24 | 2560 | Slight. |
| (3.2.60). | | | | | | |
| | Agra | ZNE | iP iS | 23 57 31 00 01 49 | 2720 | Ground movement West, Slight, compression. |
| (3.2.60). | | | | | | |
| | Calcutta | E | P eS? | — — — 23 59 46 | | P lost in microseism Slight. |
| 03 | Bombay | N NE | e e | 00 05 40 06 50 09 20 | | Slight. |
| 03 | Chatra | Z | P S | 00 42 01 43 39 | 950 | Feeble. |
| 03 | Shillong | Z | e | 03 50 20 | | Slight., distant. |
| 03 | Shillong | Z | e | 12 01 34 | | Slight. distant. |
| 03 | Shillong | Z | iP | 13 39 36 | | Slight, distant, rarefaction. |
| 03 | Shillong | Z | iPg Sg | 19 09 45 09 49 | 30 | Slight. |
| 03 | Shillong | Z | iPg Sg | 19 46 17 46 21 | 30 | Slight. |
| 04 | Tocklai | Z | eP | 00 40 38 | | Slight, near. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|-----------------------|---|---|---|--|-----------------|---------------------------------------|
| <u>February, 1960</u> | | | | | | |
| 04 | Shillong | Z | e | 00 46 45 | | Slight, distant. |
| 04 | Epc :- 4°S, 151°E, New Britain Region in the Pacific -H = 03h 46m 44s (Shillong). 4½°S, 153½°E, New Ireland Region. -H = 03h 46m 30s (USCGS) | | | | | |
| | Port Blair | E | eP i | 03 56 58 04 05 13 | 6720 | Slight. |
| | Shillong | ZNE E NE | iP PcP PP PPP iS IS PFS ScS SS SSS LQ LR M | 03 57 28 57 52 04 01 52 03 42 04 06 10 06 32 06 52 07 40 10 30 13 30 14 26 17 34 22 24 | 7220 | Moderate, compression. |
| | Calcutta | E | iP e LQ | 03 57 44 04 03 39 07 09 | | Slight, initial ground motion West. |
| | Chatra | Z NE N | iP S sS? | 03 57 55 04 07 00 08 00 | 7910 | Moderate. |
| | Bokaro | E N E NE E NE E NE E N E N | iP eP PcP i i iS i i IS PFS i SS i LQ i | 03 57 57 58 08 04 00 38 02 29 07 12 07 29 07 38 07 48 08 07 08 42 12 03 12 18 17 25 17 27 | 7880 | Moderate, initial ground motion West. |
| | Colombo | E | P S L M | 03 58 11 04 07 41 24 39 29 01 | 8180 | |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|------------------------|------------|--------|-------|----|----|----|-----------------|---|
| | | | | h. | m. | s. | | |
| <u>February, 1960.</u> | | | | | | | | |
| | Madras | E | iP | 03 | 58 | 16 | 8220 | Moderate, initial ground movement West. |
| | | | PcP | | 58 | 32 | | |
| | | | PP | 04 | 01 | 03 | | |
| | | | PPP | | 02 | 46 | | |
| | | | iS | | 07 | 48 | | |
| | | | PS | | 08 | 20 | | |
| | | | PPS | | 08 | 36 | | |
| | | | SS | | 12 | 22 | | |
| 04 | Madras | E | LQ | 04 | 14 | 29 | | |
| | | | LR | | 17 | 59 | | |
| | Hyderabad | E | iP | 03 | 58 | 27 | 8440 | Moderate, initial ground motion West. |
| | | | iS | 04 | 08 | 10 | | |
| | | | PS | | 08 | 32 | | |
| | | | PPS | | 08 | 57 | | |
| | | E | i | | 09 | 36 | | |
| | | E | LQ | | 17 | 43 | | |
| | | | LR | | 21 | 45 | | |
| | | N | M | | 27 | 27 | | Period=18, Gr. dis=5 4 |
| | Kodaikanal | E | iP | 03 | 58 | 29 | | Moderate, initial ground motion West. |
| | | | i | 04 | 07 | 56 | | |
| | | | e | | 12 | 41 | | |
| | | | e | | 17 | 50 | | |
| | | | e | | 21 | 11 | | |
| | | | M | | 27 | 11 | | Period=30, Gr. dis=35.7 4. |
| A | Agra | ZE | iP | 03 | 58 | 39 | 8610 | Moderate, compression initial ground motion West. |
| | | N | P | | 58 | 39 | | |
| | | ZNE | PcP | | 58 | 55 | | |
| | | E | i? | | 59 | 15 | | |
| | | Z | i? | | 59 | 29 | | |
| | | ZNE | i? | 04 | 00 | 05 | | |
| | | ZE | i? | | 00 | 47 | | |
| | | | i? | | 01 | 20 | | |
| | | E | PP | | 02 | 04 | | |
| | | | PPP | | 03 | 26 | | |
| | | N | i? | | 06 | 32 | | |
| | | NE | iS | | 08 | 30 | | |
| | | | SKS | | 08 | 40 | | |
| | | ZNE | ScS | | 08 | 52 | | |
| | | NE | PS | | 09 | 05 | | |
| | | E | i? | | 09 | 17 | | |
| | | N | PPS | | 09 | 31 | | |
| | | ZNE | i? | | 09 | 44 | | |
| | | NE | i? | | 09 | 58 | | |
| | | | i? | | 10 | 21 | | |
| | | N | i? | | 11 | 20 | | |
| | | | i? | | 12 | 34 | | |
| | | ZNE | SS | | 14 | 02 | | |
| | | N | SSS | | 16 | 52 | | |
| | | Z | LQ | | 20 | 04 | | |
| | | ZNE | LR | | 22 | 40 | | |
| | | | M | | - | - | | Period=52, Gr. dis=21.5 |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|--------|-------|----------------------|-----------------|---------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 04 | Dehra Dun | NE | eP | 03 58 48 | 8670 | Moderate . |
| | | N | PP | 04 01 37 | | |
| | | | PPP | 03 49 | | |
| | | | iS | 08 42 | | |
| | | | PS | 09 18 | | |
| | | | SS | 14 24 | | |
| | | | SSS | 16 55 | | |
| | | | LQ | 19 31 | | |
| | | | LR | 22 57 | | |
| | | | M | 29 39 | | |
| | Poona | Z | iP | 03 58 53 | 8830 | Moderate. |
| | | N | iS | 04 08 54 | | |
| 04 | Bombay | NE | eP | 03 58 57 | 9000 | Moderate |
| | | | i | 59 34 | | |
| | | N | PP | 04 02 11 | | |
| | | | PPP | 03 55 | | |
| | | NE | iS | 09 06 | | |
| | | | i | 09 31 | | |
| | | | PS | 10 00 | | |
| | | | PPS | 10 35 | | |
| | | N | SS | 14 36 | | |
| | | | SSS | 19 11 | | |
| 04 | Bokaro | N | i | 04 17 27 | | Slight, phases not developed . |
| 04 | Shillong | Z | e | 04 25 55 | | Slight, distant. |
| 04 | Shillong | Z | e | 07 14 21 | | Slight, distant. |
| 04 | Shillong | Z | iP | 09 14 52 | | Slight, distant compression. |
| 04 | Epc: 5° S, 154° E, New Ireland Region. | | | | | |
| | -h = 100 km. | | | | | |
| | -H = 09 h. 27 m. 23 s (USCGS). | | | | | |
| | Shillong | Z | eP | 09 38 16 | 7350 | Slight. |
| | | E | eS | 57 04 | | |
| | Agra | Z | iP | 09 39 29 | | Slight, distant compression. |
| | Poona | Z | iP | 09 39 42 | | Feeble, other phases not clear. |
| | Bombay | NE | eP | 09 39 48 | 9890 | Slight, deep. |
| | | E | PP | 43 35 | | |
| | | NE | eS | 49 56 | | |
| | | E | PS | 50 42 | | |
| | Dehra Dun | NE | eP | 09 39 51 | 8360 | Slight. |
| | | N | eS | 49 31 | | |
| 04 | Epc: 35° N, 78° E, Northern India. | | | | | |
| | -H = 100 km. | | | | | |
| | -H = 10 h. 20 m. 39 s. (USCGS) | | | | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|-----------|-------------------|--|--|----------|---|
| <u>February, 1960.</u> | | | | | | |
| 04 | Dehro Dun | NE N | eP FP PPP LQ iS LR SS SSS Sg | 10 22 06 22 12 22 17 22 48 23 00 23 03 23 11 23 21 23 25 | 510 | Slight. |
| | Agra | ZNE | iP iS | 10 22 44 24 13 | 860 | Slight, distant. Initial ground movement North. |
| | Shillong | Z | eP | 10 24 19 | | Slight. |
| 04 | Bombay | N E NE E | eP e eS e | 10 24 36 26 51 27 38 27 51 | 1830 | Slight, deep. |
| | Poona | Z ZNE | iP iS | 10 24 40 27 41 | 1810 | Slight. |
| | Sehore | NE | e e | 10 25 34 26 07 | | |
| | Madras | E | eP e iS LQ e M | 10 25 50 26 23 29 43 30 04 30 26 32 46 | 2368 | Slight. |
| | Bokaro | N | e | 10 26 17 | | Slight, phases not clear. |
| 04 | Shillong | Z | iP | 11 12 15 | | Slight, distant, compression. |
| 04 | Shillong | Z | i | 12 44 14 | | Slight, very distant. |
| 04 | Shillong | Z | iPg Sg | 13 07 00 07 11 | 100 | Slight, rarefaction. |
| 04 | Shillong | Z | i | 14 07 25 | | Slight, very distant. |
| 04 | Shillong | Z | iP | 15 34 55 | | Slight, very distant, compression. |
| 04 | Shillong | Z | i | 15 04 17 | | Slight, very distant, compression. |
| 04 | Shillong | Z | iP | 15 48 23 | | Slight, distant, compression. |
| 04 | Shillong | Z | e | 16 04 21 | | Slight, very distant. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|-------|-------|----------------------|-----------------|--|
| <u>February, 1960.</u> | | | | | | |
| 04 | Epc : 39° N, 143° E, Off east coast of Honshu, Japan. -H = 16 h. 50 m. 30 s. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | eP | 16 58 24 | | Slight, distant. |
| | Shillong | ZNE | iP | 16 58 42 | 4970 | Slight, compression, initial ground motion West. |
| | | E | iS | 17 05 19 | | |
| | | | PS | 15 31 | | |
| | | | PPS | 05 41 | | |
| | | | SS | 08 41 | | |
| | | | SSS | 09 41 | | |
| | | M | 15 31 | | | |
| | Chatra | NE | P | 16 59 07 | 5290 | Moderate. |
| | | | S | 17 06 03 | | |
| | Calcutta | E | eP | 16 59 11 | 5510 | Slight. |
| | | | eS | 17 06 29 | | |
| | | | LQ | 11 06 | | |
| | Bokaro | NE | iP | 16 59 23 | | |
| | | E | i | 17 01 20 | | |
| | | NE | i | 06 36 | | |
| | | | i | 06 49 | | |
| | Port Blair | E | iP | 16 59 45 | 5770 | Slight. |
| | | | iS | 17 07 07 | | |
| 04 | Dehradun | NE | eP | 16 59 51 | 6090 | Slight. |
| | | N | PP | 17 01 48 | | |
| | | | PPP | 02 55 | | |
| | | | iS | 07 31 | | |
| | | | SS | 11 10 | | |
| | | | SSS | 13 12 | | |
| | | | LR | 15 57 | | |
| | | | M | 20 15 | | |
| | Agra | ZNE | iP | 17 00 01 | 6090 | Moderate, initial ground movement towards South and West, and compression. |
| | | | i? | 00 14 | | |
| | | Z | PP | 02 05 | | |
| | | ZNE | iS | 07 41 | | |
| | | | PS | 07 57 | | |
| | | | M | -- -- | | |
| | Hyderabad | NE | iP | 17 00 32 | 6630 | Initial ground movement towards South and West. Slight. |
| | | N | iS | 08 42 | | |
| | | | PS | 08 54 | | |
| | | | LR | 18 21 | | |
| | | | M | 23 48 | | |
| | Madras | E | iP | 17 00 43 | 7060 | Slight. |
| | | | PP | 02 55 | | |
| | | | eS | 09 16 | | |
| | | | e | 09 42 | | |

 Period = 15, $\mu = 4$.

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|---------|--------------|-------------------------|-----------------|---------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 04 | Poona | Z NE | iP iS | 17 00 54 09 39 | 7290 | Slight. |
| | Bombay | NE N | eP PP | 17 00 58 03 20 | 7300 | Slight. |
| | | NE E | e eS M | 09 27 09 44 30 13 | | Period = 13, Gr. dis. = 1. |
| 04 | Kodaikanal | E | e | 17 30 12 | | |
| 04 | Shillong | Z | iP | 19 42 14 | | Slight, distant, compression. |
| 04 | Shillong | Z | e | 20 50 58 | | Slight, very distant. |
| 04 | Epc: $39\frac{1}{2}^{\circ}$ N, $142\frac{1}{2}^{\circ}$ E, Near Coast of Honshu, Japan. -H = 20 h. 57 m. 55 s. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | eP | 21 06 07 | | Slight, distant. |
| | Dehra Dun | NE | eP eS | 21 07 13 14 48 | 6000 | Slight. |
| | Agra | Z | iP | 21 07 26 | | Slight, near, compression. |
| | Poona | Z | iP | 21 08 19 | | Feeble, other phases not clear. |
| 04 | Shillong | Z | e | 23 00 40 | | Slight, very distant. |
| 04 | Shillong | Z | iP | 23 22 16 | | Slight, distant, compression. |
| 05 | Epc: $4\frac{1}{2}^{\circ}$ S, $153\frac{1}{2}^{\circ}$ E, New Britain Region. -H = 05 h. 39 m. 46 s. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 05 50 44 | | Slight, distant, compression. |
| | Chatra | Z | P | 05 51 12 | | Feeble. |
| | Dehradun | NE | eP eS | 05 52 09 06 01 55 | 8510 | Feeble. |
| | Poona | Z | iP e? | 05 52 11 52 36 | | Feeble, phases not clear. |
| 05 | Shillong | Z | eP Sg | 07 36 41 36 56 | 130 | Slight. |
| 05 | Shillong | Z | i | 07 53 38 | | Slight, distant. |
| 05 | Shillong | Z | i | 13 35 58 | | Slight, distant, rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|------------------------|--|---------|----------|----------|----------|----------|-----------------|-----------------------------------|
| <u>February, 1960.</u> | | | | | | | | |
| 05 | Shillong | Z | iP | 18 | 20 | 56 | | Slight, distant compression. |
| 05 | Shillong | Z | iP | 20 | 06 | 25 | | Slight, distant compression. |
| 05 | Shillong | Z | eP | 22 | 09 | 36 | | Slight, distant. |
| 05 | Shillong | Z | i | 22 | 15 | 48 | | Slight, distant rarefaction. |
| 05 | Shillong | Z | iP | 23 | 03 | 23 | | Slight, local. |
| 06 | Shillong | Z | e | 01 | 19 | 11 | | Slight, distant. |
| 06 | Shillong | Z | iP | 01 | 30 | 56 | | Slight, distant compression. |
| 06 | Shillong | Z | iP | 01 | 30 | 59 | | Slight, distant compression. |
| 06 | Shillong | Z | iP | 05 | 42 | 43 | | Slight, distant compression. |
| 06 | Shillong | Z | iP | 11 | 46 | 35 | | Slight, distant rarefaction. |
| 06 | Epc: $31\frac{1}{2}^{\circ}$ N, 91° E, Tibet. -H = 17 h. 01 m. 18 s. (U.S.C.G.S.). | | | | | | | |
| | Chatra | Z | P | 17 | 02 | 50 | | Moderate. |
| | Shillong | Z | iP | 17 | 02 | 52 | | Slight, distant. |
| | Tocklai | E | eP | 17 | 03 | 18 | | Slight, distant. |
| | Dehra Dun | IE | e | 17 | 05 | 21 | | Slight, phases not clear. |
| | | | i | | 06 | 34 | | |
| | | | i | | 07 | 35 | | |
| 06 | Calcutta | E | e? | 17 | 05 | 38 | | Slight. |
| | | | i | | 08 | 58 | | |
| | Bokaro | N NE | i | 17 | 05 | 49 | | Slight, distant phases not clear. |
| | | | i | | 06 | 29 | | |
| | | | i | | 07 | 04 | | |
| | Poona | Z | eP eS | 17 | 05 09 | 59 33 | 2166 | Mild. |
| | Madras | E | e | 17 | 11 | 49 | | Probably surface waves. |
| | Bombay | NE | e | 17 | 12 | 35 | | |

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| DATE | STATION | COMP. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|------------------------|--|--------------------|---------------------------|-------|-------|----------------------------|--------------|--|
| <u>February, 1960.</u> | | | | | | | | |
| 06 | Shillong | Z | iP | 17 | 17 | 27 | | Slight, distant compression. |
| 06 | Chatra | Z | P | 17 | 17 | 55 | | Feeble. |
| 06 | Poona | Z | iP | 17 | 18 | 15 | | Feeble, other phases not clear. |
| 06 | Chatra | Z | iP | 17 | 21 | 19 | | Feeble. |
| 06 | Shillong | Z | iP | 19 | 36 | 39 | | Slight, distant compression. |
| 07 | Shillong | Z | iP | 00 | 34 | 03 | | Slight, distant compression. |
| 07 | Shillong | Z | iP | 02 | 19 | 45 | | Slight, distant compression. |
| 07 | Shillong | Z | iP | 02 | 39 | 14 | | Slight, distant compression. |
| 07 | Shillong | Z | eP | 04 | 44 | 24 | | Slight, distant. |
| 07 | Shillong | Z | eP | 08 | 24 | 11 | | Slight. |
| 07 | Port Blair | N | iPg iSg | 09 | 56 | 04 56 | 60 | Slight. |
| 07 | Shillong | Z | iP | 10 | 09 | 24 | | Slight, distant compression. |
| 07 | Epc : 5° N, 123° E, Celebes Sea. -h = 600 km. -h = 10 h. 07 m. 50 s. (U.S.G.S.). | | | | | | | |
| | Loeklai | E | iP | 10 | 14 | 01 | | Slight, distant rarefaction. |
| | Shillong | ZE | iP | 10 | 14 | 10 | 3410 | Slight, distant rarefaction, initial ground motion East. |
| | | E | iS | | 09 | 13 | | |
| | Chatra | Z | P | 10 | 14 | 45 | | Slight, distant. |
| | Madras | E | iP e | 10 | 15 | 05 16 | | Slight. |
| | Dehra Dun | NE | eP iS | 10 | 15 | 52 22 | 4620 | Slight, other phase not clear. |
| 07 | Poona | Z ZE | iP i | 10 | 15 | 55 22 | | Slight, distant. |
| | Bombay | NE E NE E | eP pP eS PS e | 10 | 15 | 58 17 22 22 24 | 5670 | Moderate. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|--------|-------------------|----------------------|-----------------|---|
| <u>February, 1960.</u> | | | | | | |
| 07 | Tocklai | E | iP | 10 23 09 | | Slight, distant, compression. |
| 07 | Shillong | Z | iP | 15 16 13 | | Slight, distant, compression. |
| 07 | Shillong | Z | eP | 16 52 49 | | Slight. |
| 07 | Shillong | Z | eP | 21 15 25 | | Slight, distant. |
| 08 | Shillong | Z | eP | 02 24 37 | | |
| 08 | Chatra | Z | Pn | 07 33 26 | | Mild. |
| 08 | Shillong | Z | eP | 08 14 39 | | Slight. |
| 08 | Shillong | Z | iP | 09 30 39 | | Slight, distant, compression. |
| 08 | Chatra | Z | P | 09 31 05 | | Feeble. |
| 08 | Shillong | Z | iP | 12 04 41 | | Slight, distant, compression. |
| 08 | Kodaikanal | E | e | 12 38 08 | | Tremor. |
| 08 | Tocklai | E | eP | 12 43 18 | | Slight, distant. |
| 08 | Epc: 56° S, 67° W, Drake Passage. - H = 12 h. 45 m. 34 s (USCGS). | | | | | |
| | Poona | Z | ePKP ₁ | 13 04 50 | 14590 | Moderate. |
| | | Z | ePP | 07 03 | | |
| | Chatra | Z | ePKP ₁ | 13 05 07 | | Slight. |
| | Shillong | Z | iP | 13 05 08 | | Slight, distant, rarefaction, other phases not clear. |
| | Calcutta | E | e? | 13 05 43 | | Slight. |
| | Dehra Dun | NE | e | 13 05 48 | | Slight, other phases not clear. |
| | | | i | 09 10 | | |
| | | | i | 10 46 | | |
| | | | i | 13 01 | | |
| | | | i | 15 20 | | |
| | Madras | E | e | 13 06 57 | | Slight, distant phases not clear. |
| | Bomba | E | e | 13 07 02 | | Slight, distant. |
| | | NE | e | 08 26 | | |
| | | NE | e | 24 33 | | |
| 08 | Port Blair | E | e | 13 08 21 | | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|------------------------|--|-------------------|--|--|----------|---|
| <u>February, 1960.</u> | | | | | | |
| 08 | Colombo | E | e | 13 15 - | | |
| 08 | Shillong | Z | eP Sg | 17 48 55 49 08 | 120 | Slight. |
| 08 | Tocklai | Z | eP | 18 38 17 | | Slight, distant. |
| 08 | Epc: 36 $\frac{1}{2}$ ° N, 70° E, Afganistan. - H = 18 h. 54 m. 23 s (USCGS). | | | | | |
| | Dehra Dun | NE N | eP PP PPP LQ iS SS LR SSS Sg,M | 18 56 30 56 37 56 45 57 52 58 04 58 16 58 19 58 28 58 59 | 910 | Slight. |
| | Sehore | NE | iP PP PP iS SS SSS LR M | 18 57 42 57 54 57 58 19 01 12 01 30 01 42 01 58 02 52 | 1470 | Slight, distant. |
| | Chatra | Z N | iP S | 18 58 15 19 01 11 | 1750 | Moderate. |
| | Bombay | NE N NE | eP PS eS | 18 58 22 59 05 19 01 42 | 2070 | Slight, deep. |
| | Poona | Z E | iP eS | 18 58 28 19 01 37 | 1890 | Moderate. |
| | Bokaro | N E NE E | iP eP iS i | 18 58 30 19 01 38 01 56 | | Slight, distant. Initial ground motion North. |
| | Shillong | Z E | iP i iS | 18 59 01 59 50 19 02 45 | 2260 | Slight, distant compression. |
| | Calcutta | E | e? i | 18 59 04 19 02 39 | | Slight. |
| | Madras | E | e LR? | 19 00 11 04 18 | | Slight, phases could not be identified. |
| 08 | Shillong | Z | iP | 19 25 54 | | Slight, distant compression. |

| DATE | STATION | COMP | PHASE | HR | MIN | SEC | Δ km | REMARKS |
|------------------------|---|------|----------|----|-----|-----|----------------|---|
| <u>February, 1960.</u> | | | | | | | | |
| 08 | Agre | ZIE | iP iS | 12 | 57 | 32 | 1119 | Ground motion West. |
| | | | | | 58 | 53 | | |
| 08 | Shillong | Z | cP | 20 | 58 | 41 | | Slight, distant, compression. |
| 08 | Shillong | Z | cP Sg | 31 | 20 | 12 | 100 | Slight. |
| | | | | | 20 | 21 | | |
| 08 | Shillong | Z | c | 31 | 26 | 02 | | Slight, distant. |
| 09 | Shillong | Z | iP | 02 | 02 | 54 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 03 | 10 | 43 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 04 | 32 | 39 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 07 | 32 | 01 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 08 | 43 | 28 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 10 | 29 | 46 | | Slight, distant, compression. |
| 09 | Shillong | Z | cP | 11 | 17 | 47 | | Slight, distant. |
| 09 | Epic: 4° S, 122° E, Banda Sea. -H = 11 h, 56 m, 12 s. (U.S.C.G.S.) | | | | | | | |
| | Port Blair | E | c | 12 | 05 | 47 | | Slight. |
| | | | c | | 09 | 20 | | |
| | Shillong | ZIE | iP | 12 | 04 | 36 | 4970 | Initial ground motion West and compression. |
| | | IE | PP | | 06 | 20 | | |
| | | IS | | | 11 | 18 | | |
| | | IS | | | 11 | 18 | | |
| | | PHS | | | 11 | 27 | | |
| | | SS | | | 14 | 21 | | |
| | | SSS | | | 15 | 27 | | |
| | | W | | | 20 | 53 | | |
| | Calcutta | E | cP | 12 | 04 | 50 | | Slight. |
| | Bokaro | N | cP | 12 | 05 | 04 | | Slight, distant, phase not clear. Initial ground motion West. |
| | | E | cP | | | | | |
| | | N | iP | 12 | 05 | | | |
| | Coimbatore | Z | iP | 12 | 05 | 08 | 6280 | Slight. |
| | | H | S | | 12 | 04 | | |
| | Madras | E | cP | 12 | 05 | 13 | 5580 | Moderate, ground motion West. |
| | | | c | | 05 | 52 | | |
| | | | iP | | 07 | 01 | | |
| | | | PHS | | 08 | 07 | | |
| | | | S | | 12 | 24 | | |
| | | | PHS | | 12 | 37 | | |
| | | | SS | | 15 | 51 | | |
| | | | L | | 15 | 53 | | |
| | Agre | ZIE | iP | 12 | 06 | 00 | 6300 | Slight. |
| | | | iS | | 13 | 52 | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ Km. | REMARKS. |
|----------------|---|------------------------|--|---|----------|--|
| February, 1960 | | | | | | |
| 09 | Poona | Z NE | iP e | 12 06 06 13 50 | | Mild. |
| | Bombay | E NE | eP PP SS | 12 06 08 08 24 14 13 | 6530 | Slight. |
| | Dehra Dun | NE | e i e i | 12 06 15 08 04 14 12 17 20 | | Slight. |
| 09 | Shillong | Z | iP | 13 56 45 | | Slight, distant, compression. |
| 09 | Shillong | Z | iP | 15 31 22 | | Slight, distant, rarefaction. |
| 09 | Shillong | Z | eP | 16 45 14 | | Slight, distant. |
| 09 | Shillong | Z | eP | 16 59 08 | | Slight, distant. |
| 09 | Eps:- 30S, 151°E. -H = 25h 55m 50s (Shillong). 40S, 128°E. -H = 25h 55m 49s (NSGS) Magnitude : 6 $\frac{1}{2}$ -6 $\frac{3}{4}$ (Pasadena). | | | | | |
| 10 | Port Blair | E | iP iS | 00 03 12 09 04 | 4220 | |
| | Shillong | ZE E | iP PP PPP iS iS PPS SS PP SSS M | 00 04 05 05 45 06 23 10 40 10 48 10 56 13 48 10 56 14 53 20 07 | 4970 | Distant, compression. |
| | Colombo | E | P S L M | 00 04 35 00 11 40 20 55 22 35 | 5460 | Amp : 2.9 mm. |
| | Bokaro | NE E NE E | iP i i PP PPP iS PPS i SS SSS | 00 04 42 05 06 05 42 06 35 07 56 11 47 12 00 12 45 14 47 16 26 | 5670 | Initial ground motion North and West. |

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| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | Δ km. | Remarks |
|------------------------|-----------|--------|----------------|-------|-------|-------|--------------|-----------------------------------|
| <u>February, 1960.</u> | | | | | | | | |
| 10 | Chatra | Z | iP | 00 | 04 | 45 | | |
| (contd.) | | NE | i | | 11 | 53 | | |
| 10 | Madras | E | eP | 00 | 04 | 43 | 5790 | |
| | | | i | | 05 | 02 | | |
| | | | pP | | 05 | 03 | | |
| | | | sP | | 05 | 23 | | |
| | | | PP | | 06 | 44 | | |
| | | | PPP | | 07 | 45 | | |
| | | | iS | | 12 | 00 | | |
| | | | PS | | 12 | 09 | | |
| | | | PPS | | 12 | 23 | | |
| | | | ScS | | 14 | 10 | | |
| | | | SS | | 15 | 19 | | |
| | | | L _q | | 17 | 01 | | |
| | | | SSS | | 17 | 13 | | |
| | Kodukanal | E | iP | 00 | 05 | 05 | 6260 | Initial ground motion East. |
| | | | iS | | 12 | 57 | | |
| | | | SS | | 16 | 39 | | |
| | | | L _q | | 18 | 42 | | |
| | | | L _r | | 21 | 18 | | |
| | | | M | | 26 | 00 | | Period = 20 secs. $\mu = 24.2$ |
| | Hyderabad | E | iP | 00 | 05 | 08 | 6050 | Initial ground motion West. |
| | | | FP | | 07 | 07 | | |
| | | | PPP | | 08 | 28 | | |
| | | | iS | | 12 | 46 | | |
| | | | PS | | 13 | 07 | | |
| | | | PPS | | 13 | 25 | | |
| | | | ScS | | 14 | 49 | | |
| | | | SS | | 16 | 37 | | |
| | | | L _q | | 18 | 40 | | |
| | | N | L _r | | 21 | 25 | | |
| | | E | L _r | | 21 | 28 | | |
| | | | M | | 25 | 37 | | Period=15sec. $\mu=6$. |
| | | N | M | | 25 | 40 | | Period=27, $\mu=33$. |
| | Sehore | E | e | 00 | 05 | 34 | | Distant. |
| | Agra | ZNE | iP | 00 | 05 | 37 | | |
| | | | i? | | 05 | 47 | | |
| | | ZE | pP | | 06 | 03 | | |
| | | ZNE | PP | | 07 | 58 | | |
| | | | PPP | | 09 | 21 | | |
| | | | iS | | 13 | 37 | | |
| | | NE | i? | | 14 | 03 | | |
| | | | sS | | 14 | 21 | | |
| | | ZN | i? | | 14 | 53 | | |
| | | ZNE | ScS | | 15 | 45 | | |
| | | E | SS | | 18 | 01 | | |
| | | ZN | i? | | 18 | 55 | | |
| | | E | i? | | 19 | 41 | | |
| | | ZNE | SSS | | 20 | 05 | | |
| | | ZN | L _r | | 24 | 49 | | |
| | | E | i? | | 25 | 06 | | |
| | | ZNE | M | | | | | Period=32, Amp=33. |

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| DATE | STATION | COMP. | PHASE | G. M. T. | | | △ km. | Remarks |
|------------------------|--|-------|-------|----------|----|----|----------|------------------------------------|
| | | | | h. | m. | s. | | |
| <u>February, 1960.</u> | | | | | | | | |
| | Poona | Z | iP | 00 | 05 | 42 | 6350 | |
| | | E | PcP | | 06 | 25 | | |
| | | | PP | | 07 | 52 | | |
| | | | PPP | | 09 | 05 | | |
| | | | iS | | 13 | 37 | | |
| | | | PS | | 13 | 51 | | |
| | | | LR | | 22 | 33 | | |
| 10 | Bombay | NE | eP | 00 | 05 | 47 | 6480 | |
| | | E | i | | 06 | 00 | | |
| | | N | PcP | | 06 | 46 | | |
| | | S | PP | | 08 | 05 | | |
| | | | PPP | | 09 | 58 | | |
| | | N | e | | 12 | 19 | | |
| | | N | eS i | | 13 | 48 | | |
| | | E | iS i | | | | | |
| | | NE | PS | | 14 | 00 | | |
| | | | PPS | | 14 | 20 | | |
| | | E | SKS | | 15 | 36 | | |
| | | N | LR | | 22 | 49 | | |
| | | E | M | | 30 | 23 | | Period=29, Cr. dis=35μ |
| | Dehra Dun | NE | eP | 00 | 05 | 50 | 6490 | |
| | | N | PP | | 07 | 55 | | |
| | | | PPP | | 09 | 08 | | |
| | | | iS | | 13 | 53 | | |
| | | | SS | | 17 | 30 | | |
| | | | SSS | | 19 | 28 | | |
| | | | LR | | 22 | 07 | | |
| | | | M | | 26 | 23 | | |
| 10 | Tocklai | E | eP | 00 | 10 | 04 | | Slight, distant. |
| 10 | Shillong | Z | iP | 01 | 24 | 07 | | Slight, distant compression. |
| 10 | Chatra | Z | iP | 07 | 51 | 18 | | Feeble. |
| 10 | Shillong | Z | eP | 15 | 29 | 07 | | Slight, near. |
| 10 | Epc: $4\frac{1}{2}^{\circ}$ S, $154\frac{1}{2}^{\circ}$ E, Solomon Islands Region. -H = 15 h. 44 m. 54 s. (U.S.C.G.S.). | | | | | | | |
| | Agra | ZNE | iP | 15 | 50 | 32 | 5780 | Slight, South East. |
| | | EN | iS | | 57 | 55 | | |
| | Shillong | Z | iP | 15 | 55 | 45 | | Slight, distant compression. |
| | Poona | Z | eP | 15 | 57 | 10 | | Feeble, other phases not clear. |
| 10 | Shillong | Z | iP | 16 | 32 | 24 | | Slight, distant compression. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|---------|----------|----------------------|-----------------|----------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 10 | Shillong | | eP | 22 01 26 | | Slight, distant. |
| 10 | Shillong | Z | iP | 23 12 09 | | |
| 10 | Bombay | E | e e | 23 45 40 49 58 | | Slight. |
| 11 | Shillong | ZE E | iP S | 02 07 59 08 45 | 430 | Slight, compression. |
| 11 | Shillong | | | 04 39 16 | | Slight, distant. |
| 11 | Shillong | Z | eP | 06 42 54 | | Slight. |
| 11 | Shillong | Z | iP | 08 39 46 | | Slight, distant, compression. |
| 11 | Shillong | Z | eP | 11 00 21 | | Slight, distant. |
| 11 | Shillong | Z | iP | 13 13 44 | | Slight, distant rarefaction. |
| 11 | Poona | Z | iP | 13 13 29 | | Feeble, phases not clear. |
| 11 | Shillong | Z | iP | 13 13 44 | | Slight, distant rarefaction. |
| 11 | Shillong | Z | i | 13 22 38 | | Slight, distant compression. |
| 11 | Epc: $11\frac{1}{2}^{\circ}$ S, $166\frac{1}{2}^{\circ}$ E, Santacruz Islands. -H = 20 h. 56 m. 08 s (USCGS). | | | | | |
| | Shillong | Z | iP | 21 08 22 | | Slight, distant compression. |
| | Chatra | Z NE | iP eS | 21 08 53 19 13 | 9240 | Slight. |
| | Dehra Dun | NE | e | 21 09 37 | | Feeble. |
| 11 | Poona | Z | iP | 21 09 40 | | Feeble, phases not clear. |
| 11 | Shillong | Z | eP | 21 33 38 | | Slight, distant. |
| 11 | Dehra Dun | NE | e | 22 27 39 | | Feeble. |
| 11 | Chatra | Z | eP | 22 29 26 | | Feeble, distant. |
| 12 | Chatra | Z | eP | 01 41 06 | | Feeble. |
| 12 | Shillong | Z | eP | 02 12 17 | | Slight, distant. |
| 12 | Shillong | | | 03 35 45 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|--------|-----------------------|-------------------------------------|-----------------|--|
| <u>February, 1960.</u> | | | | | | |
| 12 | Chatra | Z | P | 08 00 37 | | Slight. |
| | Dehra Dun | NE | e i i | 08 00 54 01 54 02 59 | | Feeble. |
| | Shillong | Z | iP | 08 01 18 | | |
| | Poona | Z | e? | 08 05 50 | | Feeble, phases not clear. |
| | Bombay | E | e e NE e | 08 06 13 07 30 07 43 | | |
| 12 | Shillong | Z | iP | 11 50 24 | | |
| 12 | Dehra Dun | NE | e | 11 51 10 | | Feeble. |
| 12 | Dehra Dun | NE | e i | 13 09 56 11 15 | | Feeble. |
| | Shillong | Z | eP | 13 10 22 | | |
| 13 | Shillong | Z | eP eS _g | 01 29 47 30 10 | 180 | Slight. |
| 13 | Shillong | Z | eP | 04 41 12 | | Slight, distant. |
| 13 | Shillong | Z | iP | 09 48 33 | | Slight, distant, rarefaction. |
| 13 | Epc. $1\frac{1}{2}^{\circ}$ N, $127\frac{1}{2}^{\circ}$ E, Halmahera. -H = 15 h. 41 m. 04 s (USCGS). | | | | | |
| | Port Blair | N | e e i i | 15 48 15 49 32 54 11 58 13 | | |
| | Shillong | Z | iP | 15 49 00 55 07 | 4450 | Initial ground motion East. |
| | Calcutta | E | eP iS | 15 49 21 55 33 | 4530 | Moderate. |
| | Bokaro | NE | iP i i i | 15 49 33 51 25 56 05 59 46 | | Slight, distant phases not clear. Initial ground motion South and East. |
| | Chatra | NE | iP iS | 15 49 34 56 09 | 4920 | Slight. |
| | Madras | E | iP PP iS e | 15 49 50 51 38 56 38 59 28 | 5150 | Slight, initial ground motion East. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|----------------|--|--------|-------|----------------------|-----------------|--|
| February, 1960 | | | | | | |
| | Hyderabad | NE | iP | 15 50 08 | 5420 | Slight, initial ground motion South and East. Period= 15, Gr.dis= 2 μ |
| | | | iS | 57 11 | | |
| | | N | SS | 16 00 53 | | |
| | | | SSS | 01 56 | | |
| | | | LR | 03 24 | | |
| | | | M | 07 23 | | |
| | Poona | Z | iP | 15 50 42 | | Moderate. |
| | | | i | 58 14 | | |
| | Dehra Dun | NE | eP | 15 50 42 | 5870 | Slight, phases not clear. |
| | | | iS | 58 10 | | |
| | Bombay | NE | eP | 15 50 49 | 6000 | Slight. |
| | | E | e | 51 13 | | |
| | | | FP | 52 56 | | |
| | | | PPP | 54 27 | | |
| | | NE | eS | 58 24 | | |
| | | E | SoS | 16 00 19 | | |
| | Colombo | E | P | 15 56 28 | | |
| | | | M | 16 11 20 | | |
| 13 | Poona | Z | eP | 17 33 08 | | Feeble, Tremor. |
| 13 | Poona | Z | iP | 20 59 29 | | Feeble. |
| 13 | Shillong | Z | iP | 21 00 35 | | |
| 14 | Shillong | Z | iP | 04 25 07 | 190 | |
| | | | eSg | 25 34 | | |
| | Shillong | Z | iPg | 04 26 13 | 100 | Rarefaction, Slight near. |
| | | | iSg | 26 25 | | |
| 14 | Shillong | Z | iP | 09 48 28 | | Slight, distant compression. |
| 14 | Epc:- Andaman Islands. -H = 12h 51m 15s (USCGS) | | | | | |
| | Port Blair | N | iP | 12 51 45 | 140 | Slight. |
| | | | iS | 52 03 | | |
| | Shillong | Z | eP | 12 54 15 | 1400 | Slight. |
| | | E | eS | 56 37 | | |
| | Madras | E | e | 12 54 16 | | Feeble. |
| | Chatra | Z | eP | 12 54 51 | | Slight. |
| | Poona | Z | eP | 12 55 48 | 1730 | Mild. |
| | | | iS | 58 42 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km | REMARKS |
|-----------------------|--|--------|------------|----------------------|----------------|--------------------------------------|
| <u>February, 1960</u> | | | | | | |
| | Bombay | E | eP e | 12 55 50 59 25 | | |
| | | N | eS | 59 40 | | |
| | | E | e | 59 51 | | |
| | Dehra Dun | NE | eP iS | 12 56 21 13 00 19 | 2430 | Slight. |
| | Bokaro | NE | e | 12 56 35 | | Slight, distant. |
| | Calcutta | E | i e | - 12 59 54 | | Slight, Phase lost in microseism. |
| | Madras | E | e | 12 56 24 | | Feeble. |
| | Hyderabad | N | M | 13 04 26 | | Period=12, Gr. dis. = 5 /a |
| 14 | Madras | E | e | 13 06 14 | | Feeble. |
| 14 | Shillong | Z | ePg eSg | 14 56 26 56 33 | 70 | Slight. |
| 14 | Shillong | Z | eP | 17 22 21 | | Slight, near. |
| 14 | Poona | Z | iP | 18 40 21 | | Feeble. |
| 14 | Shillong | Z | eP | 19 38 31 | | Slight, distant. |
| 14 | Epc :- 5°S, 154°E, Solomon Islands. -H = 20h 40m 44s (USCGS). | | | | | |
| | Chatra | Z | iP | 20 42 10 | | Feeble. |
| | Shillong | Z | iP | 20 42 44 | | Slight, distant, compression. |
| | Poona | Z | iP | 20 43 08 | | Feeble. |
| 14 | Shillong | Z | eP | 21 13 17 | | |
| 14 | Shillong | Z | iP | 22 29 31 | | Slight, distant, rarefaction. |
| 14 | Shillong | Z | eP | 23 00 31 | | Slight, distant. |
| 15 | Shillong | Z | eP | 04 55 12 | | Slight, near. |
| 15 | Shillong | Z | eP | 07 55 37 | | Slight, distant. |
| 15 | Shillong | Z | iP | 09 35 43 | | Slight, near, rarefaction. |
| 15 | Dehra Dun | NE | e | 16 03 08 | | Tremor. |
| 15 | Shillong | Z | iP | 17 01 01 | | Slight, distant, rarefaction. |
| 15 | Shillong | Z | eP | 22 27 01 | | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|-----------|---------|-------------------------------|--|-----------------|----------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 16 | Shillong | Z | iP | 10 46 32 | | Slight, distant. |
| 16 | Shillong | Z | eP | 15 14 25 | | |
| 17 | Dehra Dun | NE N | eP iS SS/IR SSS M | 08 07 28 08 57 09 08 09 18 09 27 | 870 | |
| | Chatra | Z | eP e? | 08 09 07 11 53 | | Slight. |
| | • Poona | Z Z | iP iS | 08 09 37 13 02 | 2067 | Mild. |
| | Shillong | Z | iP | 08 09 54 | | Slight, distant, rarefaction. |
| 17 | Shillong | Z | eP eSg | 08 31 47 32 10 | 180 | Slight. |
| 17 | Shillong | Z | eP | 12 52 13 | | Slight, distant. |
| | Poona | Z | i | 12 52 24 | | Feeble. |
| | Bombay | E | e e M | 12 55 53 13 00 42 14 07 - | | Slight. |
| | Dehra Dun | NE | e | 12 56 40 | | Feeble. |
| 17 | Chatra | Z | iP | 14 14 22 | | Feeble. |
| 17 | Shillong | Z | iP eSg | 16 06 17 06 46 | 200 | Slight, near. |
| 17 | Shillong | Z | eP | 16 36 13 | | Slight, distant. |
| 17 | Shillong | Z | iP | 16 59 35 | | Slight, distant compression. |
| 17 | Chatra | Z | eP? | 17 00 10 | | Feeble. |
| 17 | Shillong | Z | iP | 17 08 30 | | Slight, distant compression. |
| 17 | Chatra | Z | eP | 17 09 17 | | Feeble. |
| 17 | Shillong | Z | iP | 17 32 41 | | Slight, distant rarefaction. |
| 17 | Chatra | Z | eP | 17 33 25 | | Feeble. |
| 17 | Tocklai | E | eP | 17 33 57 | | Slight, distant. |
| 17 | Chatra | Z | eP | 18 26 41 | | Feeble. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|-----------|---------|------------|----------------------|-----------------|---------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 17 | Shillong | Z | iP | 20 30 58 | | Slight, distant compression. |
| 17 | Chatra | Z | iP | 20 31 25 | | Feeble. |
| 17 | Chatra | Z | eP | 22 27 12 | | Feeble. |
| 17 | Shillong | Z | eP | 22 28 35 | | Slight, distant. |
| 18 | Chatra | Z | P? | 02 02 51 | | Slight. |
| 18 | Poona | Z | e? | 02 02 59 | | Feeble. |
| 18 | Shillong | Z | eP | 02 03 30 | | Slight, distant. |
| 18 | Bombay | E | e | 02 07 51 | | |
| 18 | Shillong | Z | iPg eSg | 03 59 43 59 51 | 130 | Slight. |
| 18 | Shillong | Z | eP | 10 19 04 | | Slight, distant. |
| 18 | Dehra Dun | NE | e | 11 07 02 | | Tremor. |
| 18 | Dehra Dun | NE | e | 11 53 02 | | Tremor. |
| 18 | Shillong | Z | eP | 11 55 31 | | Slight, distant. |
| 18 | Poona | Z | e? | 12 19 56 | | Feeble. |
| 18 | Shillong | Z | iP | 14 46 04 | | Slight, distant compression. |
| 18 | Shillong | Z | eP eSg | 17 21 52 22 37 | 310 | Slight, near. |
| | Chatra | Z | iP | 17 22 23 | | Feeble. |
| 18 | Shillong | Z | eP | 19 31 32 | | Slight, distant. |
| 18 | Chatra | Z | iP | 20 29 23 | | Feeble. |
| 18 | Shillong | Z | e | 20 30 24 | | |
| 18 | Tocklai | E | eP | 20 32 53 | | Slight, distant. |
| 18 | Calcutta | E | P e | - 20 37 22 | | Slight, phases not clear. |
| 18 | Chatra | Z NE | P S | 20 35 03 36 45 | 989 | Slight. |
| | Bokaro | N | e i | 20 35 35 39 49 | | Slight, distant. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|--|--------------|--|---|-----------------|--|
| <u>February, 1960</u> | | | | | | |
| 18 | Dehra Dun contd. | NE | e e | 20 36 31 39 57 | | Feeble. |
| | Shillong | Z | iP | 20 34 21 | | Slight, near, rarefaction. |
| | Bombay | E NE E | e e e | 20 42 45 45 39 46 02 | | Slight. |
| 18 | Shillong | Z | eP | 21 05 10 | | Slight, distant. |
| 18 | Shillong | Z | iP | 21 44 58 | | Slight, distant, compression. |
| | Chatra | Z | iP | 21 45 13 | | Slight, distant. |
| 18 | Shillong | Z | iP | 22 37 53 | | Slight, distant, compression. |
| 18 | Chatra | Z | P | 22 38 04 | | Mild. |
| 18 | Chatra | Z | eP | 23 02 15 | | Feeble. |
| 19 | Shillong | Z | eP | 05 21 35 | | Slight, distant. |
| 19 | Shillong | Z | eP eSg | 05 36 53 37 53 | 280 | Slight. |
| 19 | Tocklai | E | eP | 07 09 03 | | Slight, near. |
| 19 | Shillong | Z | iP | 07 09 17 | | Slight, near, compression. |
| 19 | Chatra | Z | eP | 07 11 44 | | |
| 19 | Epc: 36° N, 70° E, Hindukush., -H = 10 h. 36 m. 46 s., h about 200 km. Ca. (U.S.C.G.S.) | | | | | |
| | Epc: 37° N, 70° E, -H = 10 h. 36 m. 45 s., h about 200 km. Ca. (Shillong) | | | | | |
| | Dehra Dun | NE | eP PP PPP Lq IS SS SSS Sg,M | 10 38 51 38 59 39 08 40 15 40 26 40 38 40 49 41 19 | 920 | Moderate. |
| | Agra | ZNE | iP | 10 38 05 | | Moderate, initial ground movement North and West. |

| DATE | STATION | COMP | TIME | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------|------------------|-------|----------|----------------------|--|-----------|
| February, 1960. | | | | | | |
| 19 | Sohore contd. | NE | 1P | 10 40 06 | 1500 | Moderate. |
| | | | PP | 40 17 | | |
| | | | HP | 40 17 | | |
| | | | IS | 40 22 | | |
| | | | SS | 42 38 | | |
| | | | SSP | 42 59 | | |
| | | | LS | 43 14 | | |
| | | | 43 16 | | | |
| | | | 44 26 | | | |
| Poona | | E | 1P | 10 40 35 | | Moderate. |
| | | | MS | 40 49 | | |
| | | | VIT | 40 58 | | |
| | | H | 1 | 43 51 | | |
| Chatra | NE | 1P | 10 40 37 | | Moderate. | |
| | | 1 | 43 31 | | | |
| Bombay | NE | 1P | 10 40 46 | 2010 | Slight. | |
| | | SP | 41 40 | | | |
| | | 1P | 43 53 | | | |
| Bokaro | N | 1P | 10 40 50 | 2060 | Initial ground motion North. | |
| | | 1 | 40 56 | | | |
| | | 1P | 41 41 | | | |
| | | 1P | 41 48 | | | |
| | | 1 | 42 31 | | | |
| | | 1P | 43 54 | | | |
| | | 1P | 44 03 | | | |
| | | 1P | 44 35 | | | |
| | | 1 | 44 48 | | | |
| Hydrabad | NE | 1P | 10 41 12 | 2120 | Great, initial ground motion South and East. | |
| | | 1P | 41 36 | | | |
| | N | 1P | 41 45 | | | |
| | | 1 | 42 09 | | | |
| | | 1P | 44 42 | | | |
| | SE | 1P | 44 51 | | | |
| | | 1P | 45 17 | | | |
| | N | 1P | 45 25 | | | |
| | | 1 | 45 54 | | | |
| | E | 1P | 46 51 | | | |
| | | 1P | 47 23 | | | |
| Calcutta | NE | 1P | 10 41 17 | 2270 | Moderate, initial ground motion East. | |
| | N | 1P | 45 02 | | | |
| Shillong | | 1P | 10 41 20 | 2230 | Moderate, rarefaction, initial ground motion West. | |
| | | 1 | 42 01 | | | |
| | | 1P | 45 01 | | | |
| Tocklai | | 1P | 10 41 34 | 2300 | Slight. | |
| | | 1 | 43 21 | | | |
| | | 1P | 43 32 | | | |
| | | 1P | 43 51 | | | |
| | | 1P | 46 04 | | | |
| | | 1P | 46 29 | | | |
| | | 48 11 | | | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|-----------------------|-------------|--------|--|--|-----------------|---|
| <u>February, 1960</u> | | | | | | |
| | Vizianagrem | NE | iP PP PPP iS iQ SS SSS LR M | 10 41 37 41 53 42 03 45 17 45 25 45 43 46 03 46 23 48 05 | 2220 | Slight. |
| 19 | Madras | E | iP PP PPP pp sp i iS iQ SS SSS M | 10 42 00 42 24 42 37 42 43 42 54 45 32 46 06 46 18 46 37 46 50 49 10 | 2790 | Moderate, initial ground motion West. |
| | Kodaikanal | E | eP e e M | 10 42 23 45 41 46 56 48 23 | | Initial ground motion West, Moderate. Period = 10 secs. Gr.dis = 41.7 μ |
| | Colombo | E | P e e M | 10 42 49 43 58 48 50 52 50 | | Amp: 5.0 mm. |
| | Port Blair | E | iP i PP iS i | 10 42 59 44 07 44 53 49 49 50 49 | 5190 | Moderate. |
| 20 | Chatra | Z | p? | 12 17 45 | | Feeble. |
| 20 | Shillong | Z | iP | 14 36 53 | | Slight, distant, compression. |
| 20 | Chatra | Z | iP | 14 50 01 | | Feeble. |
| 20 | Dehra Dun | NE | e | 18 12 07 | | Tremor. |
| | Chatra | Z | eP S | 18 12 44 13 56 | 690 | Slight. |
| | Shillong | Z | iP | 1 8 13 41 | | Slight, distant, rarefaction. |
| 20 | Dehra Dun | NE | e e | 23 32 26 33 36 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-----------------------|----------|---------|------------|----------------------|-----------------|-------------------------------|
| <u>February, 1960</u> | | | | | | |
| | Shillong | Z | iP | 23 35 09 | | Slight, distant, compression. |
| 20 | Chatra | Z | eP | 23 54 21 | | Feeble. |
| 21 | Shillong | Z | iP | 08 25 09 | | Slight, distant, compression. |
| 21 | Shillong | Z | eP | 08 27 17 | | Slight, distant. |
| 21 | Chatra | Z E | iP S | 09 36 53 41 47 | 3270 | Slight. |
| | Shillong | Z | eP | 09 37 26 | | Slight, distant. |
| 21 | Shillong | Z | iP | 10 54 52 | | Slight, distant. |
| 21 | Shillong | Z | eP | 16 42 18 | | Slight, near. |
| 21 | Shillong | Z | iP | 17 33 29 | | Slight, distant. |
| 21 | Chatra | Z | P | 22 51 38 | | Feeble. |
| 21 | Shillong | Z | eP | 22 54 03 | | Slight, near. |
| 21 | Shillong | Z | iP | 23 11 49 | | Slight, distant, rarefaction. |
| 21 | Chatra | Z | eP | 23 30 02 | | Feeble. |
| 21 | Shillong | Z | iP | 23 30 41 | | Slight, distant, rarefaction. |
| 22 | Chatra | Z | iP | 00 32 52 | | Feeble. |
| | Shillong | Z | eI | 00 35 48 | | Slight, near. |
| 22 | Shillong | Z | eP | 05 39 48 | | Slight, distant. |
| 22 | Shillong | Z | iP | 07 06 55 | | Slight, distant, rarefaction. |
| 22 | Shillong | Z | iI | 16 22 16 | | Slight, distant, rarefaction. |
| 22 | Shillong | Z | ePg eSg | 19 04 19 04 32 | 110 | Slight, near. |
| 22 | Shillong | Z | eP | 19 08 08 | | Slight, distant. |
| 22 | Shillong | Z | eI | 21 14 20 | | Slight, distant. |
| 23 | Chatra | Z NE | P S | 02 13 33 1 6 54 | 2020 | Slight. |
| | Shillong | Z | iP e | 02 14 16 17 58 | | Slight. |
| 23 | Chatra | Z | iP | 08 16 54 | | Feeble. |
| 23 | Chatra | Z | P | 1 6 08 36 | | Feeble. |
| 23 | Chatra | Z | P | 16 16 32 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|---------|--------------------------------|--|-----------------|---|
| <u>February, 1960.</u> | | | | | | |
| 23 | Madras | E | e e | 16 16 44 26 23 | | Slight. |
| 24 | Chatra | Z | P | 00 11 39 | | Feeble. |
| 24 | Shillong | Z | eP | 02 59 41 | | Slight, distant. |
| 24 | Chatra | Z | iP | 03 09 51 | | Feeble. |
| | Shillong | Z | eP | 03 10 12 | | |
| 24 | Shillong | Z | iPg e-g | 04 50 02 50 14 | 100 | Slight, rarefaction. |
| 24 | Shillong | Z | iP | 08 53 39 | | Slight, distant, rarefaction. |
| 24 | Shillong | Z | iP eSg | 13 43 57 44 22 | 180 | Slight, near, compression. |
| 24 | Shillong | Z | eP | 17 51 22 | | Slight, distant. |
| 24 | Chatra | Z | iP | 19 02 58 | | Feeble. |
| 24 | Shillong | Z | iP | 19 03 34 | | Slight, distant, compression. |
| 24 | <p style="text-align: center;">o o</p> <p>Epc: $7\frac{1}{2}$ S, 156 E, Solomon Islands., -H = 21 h. 37 m. 04 s. (U.S.C.G.S.) Felt at Rabaul, Buin, Kieta, Numa., Mag : $6\frac{1}{2}$-$6\frac{3}{4}$ (Pasadena).</p> | | | | | |
| | Colombo | E | P | 21 47 30 | | |
| | Port Blair | E | eP PcP iS i i i | 21 47 56 48 28 56 33 56 51 57 43 22 00 59 | 7120 | |
| | Tocklai | E | iP | 21 48 15 | | Distant, rarefaction. |
| | Shillong | ZE E | iP PcP PP PPP | 21 48 21 48 47 50 56 52 52 | 7760 | |
| | | NE E | iS PPS M | 57 30 58 17 22 16 04 | | |
| | Bokaro | NE | iP i | 21 48 48 58 22 | | Distant, initial ground movement North and West. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|------------------|-------------------------|---|---|-----------------|--|
| <u>February, 1960.</u> | | | | | | |
| 24 | Chatra contd. | Z NE | iP i | 21 48 48 58 19 | | |
| | Madras | E | e e | 21 49 05 58 56 | | Slight. |
| | Kodaikanal | E | e | 21 49 17 | | Tremor. |
| | Hyderabad | E N | iP iS SoS FS SS LR M | 21 49 17 59 17 59 35 59 50 22 04 35 14 11 19 50 | 8790 | Initial ground movement West. Period = 18 secs., Gr. dis. = 3 μ |
| | Agra | ZNE | iP iS | 21 49 29 59 42 | 9090 | Initial ground motion West. |
| 24 | Dehra Dun | NE N | eP PP PPP iS SS SSS LQ LR M | 21 49 36 52 57 54 40 59 51 22 05 04 07 40 10 39 13 55 20 05 | 9130 | |
| | Poona | Z N | iP iS | 21 49 41 22 00 07 | 9360 | |
| | Bombay | NE E NE E N | eP e PP eS SoS FS M | 21 49 45 50 01 53 11 22 00 17 00 25 01 15 43 22 | 9510 | Period = 17 secs., Gr. dis. = 2 μ . |
| 24 | Shillong | Z | ePg eSg | 22 25 55 26 05 | 90 | Slight. |
| 25 | Shillong | Z | eP | 05 53 39 | | Slight, near. |
| 25 | Dehra Dun | NE | e | 08 13 25 | | Tremor. |
| | Shillong | Z | eP | 08 14 24 | | Slight, distant. |
| 25 | Shillong | Z | iP | 12 52 26 | | Slight, distant, compression. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|---------|-----------|----------------------|-----------------|----------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 25 | Dehra Dun | NE | e e | 14 09 30 10 58 | | Feeble. |
| 25 | Chatra | Z | iP | 14 11 12 | | Feeble. |
| | Shillong | Z | eP | 14 12 00 | | Slight, distant. |
| 25 | Shillong | Z | i | 14 15 37 | | |
| 25 | Shillong | Z | ePg Sg | 14 51 10 51 18 | 70 | Slight. |
| 25 | Shillong | Z | iP | | | Slight, distant, compression. |
| 25 | Shillong | Z | eP | 16 11 40 | | Slight, distant. |
| 25 | Chatra | Z | P | 21 07 21 | | Very feeble. |
| 25 | Shillong | Z | iP | 23 39 38 | | Slight, distant, rarefaction. |
| 26 | Shillong | Z | eP | 01 14 39 | | Slight, distant. |
| | Chatra | Z | eP | 01 15 18 | | Slight, distant. |
| | Poona | Z | iP | 01 16 46 | | Feeble. |
| 26 | Shillong | Z | iP | 02 17 47 | | Slight, distant, compression. |
| 26 | Chatra | Z | eP | 02 18 18 | | Feeble, distant. |
| | Poona | Z | e? | 02 19 25 | | Feeble. |
| | Bombay | E NE | e e | 02 19 33 28 26 | | Slight. |
| 26 | Bombay | E | e e | 05 37 42 45 34 | | Slight. |
| 26 | Shillong | Z | iP | 12 08 21 | | Slight, distant, compression. |
| 26 | Shillong | Z | iP | 15 04 52 | | Slight, distant rarefaction. |
| 26 | Shillong | Z | iP | 18 08 06 | | Slight, distant rarefaction. |
| 26 | Chatra | Z | P | 18 56 14 | | Feeble. |
| 26 | Shillong | Z | eP | 18 36 14 | | Slight, near. |
| 26 | Epc : $51\frac{1}{2}^{\circ}$ N, 178° W, Aleutian Islands. - H = 23 h. 29 m. 25 s (USCGS). Mag : $6-6\frac{1}{4}$ (Pas). | | | | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|------------|--------------|---|---|-----------------|--|
| <u>February, 1960.</u> | | | | | | |
| 26 | Shillong | Z E | iP iS | 23 40 42 50 00 | 7930 | |
| | Chatra | Z NE N | iP iS Mn | 23 40 56 50 19 00 15/16 | 8040 | |
| (27.2.60) | Dehra Dun | NE N | eP PP PPP iS SS SSS LQ LR M | 23 41 09 43 20 45 13 50 43 55 09 58 47 00 00 17 03 46 10 18 | 8260 | |
| (27.2.60) | Calcutta | E | e i | 23 41 12 50 50 | | |
| | Bokaro | NE | iP? i | 23 41 13 50 55 | | Distant. |
| | Agra | ZNE | iP iS M | 23 41 24 51 10 - | 8510 | Initial ground movement South and West. Period = 20, Gr. dis = 110 μ |
| | Fort Blair | E | i i | 23 41 43 52 08 | | |
| | Hyderabad | NE N | iP PP iS IS SS SSS LR M | 23 41 58 45 31 52 35 53 30 58 26 00 01 49 11 37 17 14 | 9620 | Initial ground motion South and West. Period = 18, Gr. dis = 7 μ |
| (27.2.60) * | Poona | Z N | iP iS | 23 42 12 52 45 | 9640 | |
| | Bombay | NE N | eP eS M | 23 42 13 52 46 00 23 10 | 9535 | Period = 19 secs. Gr. dis. = 5 μ . |
| | Madras | E | e e | 21 49 05 58 56 | | |
| | Kodaikanal | E | e | 23 53 21 | | Tremor. |
| | Colombo | E | P | 23 53 30 | | |
| 27 | Kodaikanal | E | e | 00 17 30 | | Tremor. |
| 27 | Chatra | Z | P | 00 18 42 | | Feeble. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|-----------------|---------------|----------------------------|-----------------|--|
| <u>February, 1960.</u> | | | | | | |
| 27 | Shillong | Z | eP | 05 26 48 | | Slight, distant. |
| 27 | Epc: 51 $\frac{1}{2}$ ° N, 178° W, Aleutian Islands, -H = 08 h. 10 m. 03 s., (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP eS | 08 21 21 30 36 | | Slight, distant. |
| | Chatra | Z NE | eP S | 08 21 35 31 02 | 8150 | Moderate. |
| | Dehra Dun | NE | eP eS | 08 21 58 31 27 | 8150 | Feeble. |
| | Agra | ZNE Z ZNE | iP iS M | 08 22 02 31 49 -- -- | 8530 | Slight, compression. (W.S). Period = 18 secs. Gr. dis. = 5.5 m.m. |
| | Poona | Z N | iP iS | 08 22 49 33 27 | 9665 | Feeble. |
| | Bombay | N NE | eP eS | 08 22 51 33 27 | 9610 | Slight. |
| | Hyderabad | N | e M | 08 33 05 09 00 14 | | Period = 9 secs. Gr. dis. = 1 μ . |
| 27 | Kodaikanal | E | e | 09 05 15 | | Tremor. |
| 27 | Epc: 6 $\frac{1}{2}$ ° S, 102 $\frac{1}{2}$ ° E, Off South coast of Sumatra, -H = 09 h. 05 m. 25 s., (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 09 12 09 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 09 12 35 | | Slight, distant. |
| | Poona | Z | iP | 09 12 44 | | Tremor. |
| | Bombay | E | e e | 09 14 25 27 02 | | Slight. |
| 27 | Shillong | Z | iP | 14 04 12 | | Slight, distant. |
| 27 | Shillong | Z | eP | 14 09 03 | | |
| 27 | Shillong | Z | eP | 14 34 30 | | Slight, distant. |
| 27 | Poona | Z | e? | 14 35 52 | | Tremor. |
| 27 | Shillong | Z | iP | 15 07 27 | | |
| 27 | Shillong | Z | eP | 17 10 26 | | Slight distant, rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|---------|------------|----------------------|-----------------|-------------------------------|
| <u>February, 1960.</u> | | | | | | |
| 27 | Epc : 2° N, 123° E, Celebes Sea. - H = 23 h. 05 m. 49 s (USCGS). | | | | | |
| | Shillong | Z | iP | 23 12 11 | | Slight, distant rarefaction. |
| | Chatra | Z | P | 23 13 41 | | Feeble. |
| | Poona | Z | e? | 23 14 52 | | Tremor. |
| | Bombay | E | e e | 23 22 17 27 09 | | Slight. |
| 28 | Shillong | Z | eSg eSg | 02 29 06 29 16 | 90 | Near, slight. |
| 28 | Shillong | Z | iP | 08 42 58 | | Slight, distant compression. |
| 28 | Shillong | Z | iP | 12 41 45 | | Very slight, distant. |
| 28 | Shillong | Z | eP | 20 11 41 | | Slight, distant. |
| 28 | Shillong | Z | iP | 22 25 19 | | Slight, distant. |
| 28 | Shillong | Z | eP | 23 15 32 | | Slight, distant, rarefaction. |
| | Chatra | Z | P | 23 16 03 | | Feeble, distant. |
| | Madras | E | e | 23 16 22 | | Feeble. |
| | Poona | Z | iP | 23 17 04 | | Feeble . |
| 29 | Shillong | Z | iP | 00 02 15 | | Slight, distant. |
| 29 | Chatra | Z | P | 00 34 05 | | Feeble. |
| 29 | Shillong | Z | iP | 05 28 42 | | Slight, distant, rarefaction. |
| 29 | Poona | Z | iP | 05 30 58 | | Feeble. |
| 29 | Shillong | Z | eP | 07 21 04 | | Slight, distant. |
| 29 | Tocklai | E | eP | 08 33 52 | | Slight, near. |
| 29 | Shillong | Z | iP | 08 35 17 | | Slight, distant, compression. |
| | Chatra | Z NE | iP S | 08 36 20 37 38 | 745 | Slight, |
| | Dehra Dun | NE | e e | 08 38 23 41 05 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|--------|-----------------|-------------------------------|-----------------|---|
| <u>February, 1960.</u> | | | | | | |
| 29 | Poona | Z | iP | 08 39 02 | | Feeble. |
| | Bombay | NE | e e | 08 39 14 45 22 | | Slight, |
| 29 | Hyderabad | N | M | 08 46 44 | | Period = 9 secs. Gr. dis. = 1 μ |
| 29 | Epc : 30° N, 9° W, Morocco. - H = 23 h. 40 m. 12 s (USCGS). 10,000 dead, 25,000 wounded, major property damage at Agadir. | | | | | |
| (1.3.60) | Dehra Dun | NE | eP eS | 23 51 53 00 01 20 | 8110 | Feeble. |
| (1.3.60) | Bombay | NE | eP eS | 23 51 56 00 01 27 | 8200 | Slight. |
| | | N | M | 26 27 | | Period = 15 secs. Gr. dis. = 2 μ |
| (1.3.60) | Poona | Z N | iP iS | 23 52 01 00 01 37 | 8300 | Mild. |
| | Chatra | Z | i | 23 52 37 | | Slight. |
| (1.3.60) | Madras | E E | eP eS? PS | 23 52 50 00 03 12 04 04 | 9290 | Slight. |
| (1.3.60) | Shillong | Z E | iP eS | 23 52 56 00 03 23 | 9400 | Slight, compression. |

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Earthquakes Reports

(Non Instrumental reports)

Following is the list of earthquakes that were reported by voluntary observers from different stations during the month of February, 1960 .

| Station | Date | Time in G.M.T. | No. of shocks | Duration of shocks in secs. | Intensity in R.F. scale. | Remarks. |
|----------|---------|----------------|---------------|-----------------------------|--------------------------|----------|
| Srinagar | 4.2.60 | 10 21 | 1 | 20 secs. | V | |
| Shillong | 6.2.60 | 22 54 | 1 | 2 secs. | IV | |
| Shillong | 14.2.60 | 14 57 | 1 | 2 secs. | III | |
| Srinagar | 19.2.60 | 10 38 | 1 | 200 secs. | VI | |
| Shillong | 21.2.60 | 00 45 16 43 | 2 | 2 secs. | V | |
| Srinagar | 23.2.60 | 02 08 | 1 | 35 secs. | V | |
| Shillong | 24.2.60 | 22 26 | 1 | 1 secs. | IV | |

MICROSEISMIC TABULATION

| DATE | HOUR | K | MEAN | MEAN | DATE | HOUR | K | MEAN | MEAN |
|---|------|-----|-----------|---------|------|------|-----|-----------|---------|
| GMT | GMT | | AMPLITUDE | PERIOD | GMT | GMT | | AMPLITUDE | PERIOD |
| | | | IN m.m. | IN SEC. | | | | IN m.m. | IN SEC. |
| STATION : Shillong Component : E-W MONTH : February, 1960 | | | | | | | | | |
| 01 | 00 | 0,0 | - | - | 12 | 00 | 1 | 0.2 | 3.7 |
| | 06 | 1 | 0.2 | 3.8 | | 06 | 1 | 0.2 | 3.9 |
| | 12 | 1 | 0.3 | 4.2 | | 12 | 1 | 0.3 | 4.2 |
| | 18 | 1 | 0.2 | 4.0 | | 18 | 1 | 0.3 | 4.3 |
| 02 | 00 | 1 | 0.3 | 4.3 | 13 | 00 | 1 | 0.3 | 4.5 |
| | 06 | 1 | 0.3 | 4.5 | | 06 | 1 | 0.2 | 4.0 |
| | 12 | 1 | 0.3 | 4.4 | | 12 | 1 | 0.2 | 3.8 |
| | 18 | 1 | 0.2 | 4.0 | | 18 | 1 | 0.2 | 3.9 |
| 03 | 00 | ... | - | - | 14 | 00 | 1 | 0.2 | 3.7 |
| | 06 | 1 | 0.3 | 4.6 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 1 | 0.3 | 4.4 |
| | 18 | 1 | 0.4 | 5.2 | | 18 | 1 | 0.3 | 4.6 |
| 04 | 00 | 1 | 0.4 | 5.1 | 15 | 00 | 1 | 0.3 | 4.5 |
| | 06 | 1 | 0.4 | 5.1 | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 1 | 0.3 | 4.3 | | 12 | 1 | 0.3 | 4.5 |
| | 18 | ... | - | - | | 18 | 1 | 0.4 | 5.0 |
| 05 | 00 | 0,0 | - | - | 16 | 00 | 1 | 0.3 | 4.4 |
| | 06 | 1 | 0.2 | 3.7 | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 1 | 0.3 | 4.0 | | 12 | 1 | 0.3 | 4.3 |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.3 | 4.4 |
| 06 | 00 | 0,0 | - | - | 17 | 00 | 1 | 0.4 | 4.8 |
| | 06 | 1 | 0.2 | 3.8 | | 06 | 1 | 0.3 | 4.1 |
| | 12 | 1 | 0.2 | 3.6 | | 12 | 1 | 0.3 | 4.3 |
| | 18 | 1 | 0.2 | 3.7 | | 18 | 1 | 0.3 | 4.2 |
| 07 | 00 | 0,0 | - | - | 18 | 00 | 1 | 0.2 | 3.8 |
| | 06 | 1 | 0.2 | 3.9 | | 06 | ... | - | - |
| | 12 | 3 | 0.3 | 4.5 | | 12 | 3 | 0.2 | 4.0 |
| | 18 | 1 | 0.2 | 4.0 | | 18 | 1 | 0.2 | 3.8 |
| 08 | 00 | 1 | 0.2 | 4.0 | 19 | 00 | 1 | 0.3 | 4.2 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.2 | 4.0 |
| | 12 | 1 | 0.2 | 4.1 | | 12 | ... | - | - |
| | 18 | 1 | 0.2 | 3.9 | | 18 | ... | - | - |
| 09 | 00 | 0,0 | - | - | 20 | 00 | ... | - | - |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 3 | 0.2 | 3.9 | | 12 | 1 | 0.3 | 4.4 |
| | 18 | 3 | 0.3 | 4.8 | | 18 | 1 | 0.3 | 4.4 |
| 10 | 00 | ... | - | - | 21 | 00 | 1 | 0.2 | 3.9 |
| | 06 | 3 | 0.3 | 5.0 | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 3 | 0.4 | 5.5 | | 12 | 1 | 0.2 | 4.0 |
| | 18 | 3 | 0.3 | 5.0 | | 18 | 1 | 0.3 | 4.4 |
| 11 | 00 | 3 | 0.4 | 5.6 | 22 | 00 | 1 | 0.3 | 4.3 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.3 | 4.2 |
| | 12 | 3 | 0.2 | 3.8 | | 12 | 1 | 0.3 | 4.4 |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.3 | 4.1 |

II

| DATE | HOUR | K | MEAN | MEAN | DATE | HOUR | K | MEAN | MEAN |
|------|------|---|-----------|---------|------|------|---|-----------|---------|
| GMT | GMT | | AMPLITUDE | PERIOD | GMT | GMT | | AMPLITUDE | PERIOD |
| | | | IN m.m. | IN SEC. | | | | IN m.m. | IN SEC. |

STATION : Shillong (Contd.)

MONTH : February, 1960

| | | | | |
|----|----|-----|-----|-----|
| 23 | 00 | 1 | 0.3 | 4.2 |
| | 06 | 1 | 0.2 | 3.9 |
| | 12 | 1 | 0.3 | 4.1 |
| | 18 | 1 | 0.3 | 4.2 |
| 24 | 00 | 1 | 0.3 | 4.1 |
| | 06 | 3 | 0.3 | 4.3 |
| | 12 | 1 | 0.3 | 4.2 |
| | 18 | 3 | 0.2 | 4.0 |
| 25 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 1 | 0.2 | 3.7 |
| 26 | 00 | 1 | 0.2 | 3.6 |
| | 06 | 3 | 0.2 | 3.6 |
| | 12 | 3 | 0.2 | 3.7 |
| | 18 | 3 | 0.2 | 3.5 |
| 27 | 00 | ... | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |
| 28 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.2 | 4.1 |
| | 12 | 3 | 0.2 | 4.0 |
| | 18 | 3 | 0.2 | 4.2 |
| 29 | 00 | ... | - | - |
| | 06 | 3 | 0.2 | 4.0 |
| | 12 | 3 | 0.3 | 4.6 |
| | 18 | 3 | 0.3 | 4.5 |

| | | | | |
|----|----|-----|-----|-----|
| 03 | 12 | 1 | 0.8 | 2.9 |
| | 15 | 1 | 0.8 | 3.2 |
| | 18 | 1 | 0.5 | 3.1 |
| | 21 | 1 | 0.5 | 3.0 |
| 04 | 00 | 1 | 0.7 | 2.6 |
| | 03 | 1 | 0.6 | 2.7 |
| | 06 | ... | - | - |
| | 09 | 1 | 0.7 | 2.8 |
| | 12 | 1 | 0.7 | 2.6 |
| | 15 | 1 | 0.5 | 2.7 |
| | 18 | ... | - | - |
| | 21 | 1 | 0.6 | 2.7 |
| 05 | 00 | 1 | 0.4 | 2.5 |
| | 03 | 1 | 0.4 | 2.6 |
| | 06 | 1 | 0.5 | 2.3 |
| | 12 | 3 | 0.3 | 2.0 |
| | | | 0.3 | 4.5 |
| | 18 | 3 | 0.3 | 2.1 |
| | | | 0.4 | 4.8 |
| 06 | 00 | 3 | 0.3 | 2.0 |
| | | | 0.4 | 4.8 |
| | 06 | 3 | 0.5 | 2.3 |
| | | | 0.4 | 4.8 |
| | 12 | 3 | 0.3 | 2.0 |
| | | | 0.4 | 4.8 |
| | 18 | 3 | 0.3 | 4.5 |
| | | | 0.2 | 2.2 |
| 07 | 00 | 3 | 0.3 | 4.4 |
| | | | 0.2 | 1.7 |
| | 06 | 3 | 0.3 | 4.5 |
| | | | 0.2 | 2.0 |
| | 12 | 2 | 0.4 | 5.5 |
| | 18 | 2 | 0.4 | 4.7 |
| 08 | 00 | 2 | 0.4 | 4.8 |
| | 06 | 2 | 0.4 | 5.1 |
| | 12 | 2 | 0.4 | 5.2 |
| | 18 | 2 | 0.4 | 4.8 |
| 09 | 00 | 2 | 0.4 | 5.0 |
| | 06 | 2 | 0.4 | 4.7 |
| | 12 | 2 | 0.6 | 5.3 |
| | 18 | ... | - | - |
| 10 | 00 | ... | - | - |
| | 06 | ... | - | - |
| | 12 | 2 | 0.6 | 5.5 |
| | 18 | 2 | 0.5 | 5.8 |
| 11 | 00 | ... | - | - |
| | 06 | ... | - | - |
| | 12 | 2 | 0.4 | 4.5 |
| | 18 | ... | - | - |
| 12 | 00 | ... | - | - |
| | 06 | 2 | 0.4 | 4.3 |

STATION : (Bombay) (Coleba)

| | | | | |
|----|----|---|-----|-----|
| 01 | 00 | 1 | 0.5 | 2.5 |
| | 03 | 1 | 0.5 | 2.7 |
| | 06 | 1 | 0.6 | 2.7 |
| | 09 | 1 | 0.6 | 2.8 |
| | 12 | 1 | 0.7 | 2.8 |
| | 15 | 1 | 0.6 | 2.9 |
| | 18 | 1 | 0.5 | 2.8 |
| | 21 | 1 | 0.5 | 2.8 |
| 02 | 00 | 1 | 0.9 | 2.6 |
| | 03 | 1 | 1.0 | 2.8 |
| | 06 | 1 | 1.0 | 2.8 |
| | 09 | 1 | 0.9 | 2.9 |
| | 12 | 1 | 0.9 | 3.0 |
| | 15 | 1 | 0.9 | 2.8 |
| | 18 | 1 | 0.8 | 3.0 |
| | 21 | 1 | 0.7 | 3.0 |
| 03 | 00 | 1 | 0.9 | 3.1 |
| | 03 | 1 | 0.9 | 3.2 |
| | 06 | 1 | 0.8 | 3.0 |
| | 09 | 1 | 0.9 | 3.2 |

III

| DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------------------------------------|----------|-----|------------------------|---------------------|-------------------------|----------|-----|------------------------|---------------------|
| STATION : Bombay (Colaba) (Contd.) | | | | | MONTH : February, 1960. | | | | |
| 12 | 12 | 2 | 0.4 | 4.4 | 22 | 00 | 3 | 0.7 | 3.9 |
| | 18 | ... | - | - | | | | 0.5 | 2.2 |
| | | | | | | 06 | 3 | 0.7 | 3.8 |
| 13 | 00 | ... | - | - | | | | 0.6 | 2.3 |
| | 06 | 2 | 0.4 | 4.3 | | 12 | 3 | 0.7 | 3.7 |
| | 12 | 2 | 0.3 | 4.4 | | | | 0.6 | 2.3 |
| | 18 | 2 | 0.4 | 4.7 | | 18 | 3 | 0.6 | 3.9 |
| | | | | | | | | 0.6 | 2.6 |
| 14 | 00 | 2 | 0.4 | 4.2 | | | | | |
| | 06 | 2 | 0.4 | 4.4 | 23 | | | 0.6 | |
| | 12 | 2 | 0.5 | 5.0 | | | | 0.5 | 2.3 |
| | 18 | 2 | 0.5 | 4.8 | | 06 | 3 | 0.6 | 4.5 |
| | | | | | | | | 0.3 | 2.1 |
| 15 | 00 | 2 | 0.5 | 4.7 | | 12 | 3 | 0.6 | 4.6 |
| | 06 | 2 | 0.6 | 4.8 | | | | 0.4 | 2.2 |
| | 12 | 2 | 0.6 | 4.6 | | 18 | 3 | 0.5 | 4.4 |
| | 18 | 2 | 0.6 | 4.6 | | | | 0.3 | 2.0 |
| 16 | 00 | 2 | 0.5 | 4.5 | 24 | 00 | 3 | 0.5 | 4.6 |
| | 06 | 2 | 0.5 | 4.8 | | | | 0.3 | 2.2 |
| | 12 | 2 | 0.5 | 4.6 | | 06 | 3 | 0.6 | 4.1 |
| | 18 | 2 | 0.5 | 4.5 | | | | 0.4 | 2.3 |
| | | | | | | 12 | 3 | 0.5 | 4.1 |
| 17 | 00 | 2 | 0.6 | 3.9 | | | | 0.3 | 2.1 |
| | 06 | 3 | 0.5 | 4.4 | | 18 | 3 | 0.4 | 4.1 |
| | | | 0.4 | 2.7 | | | | 0.3 | 2.2 |
| | 12 | 3 | 0.6 | 4.5 | | | | | |
| | | | 0.4 | 2.7 | 25 | 00 | ... | - | - |
| | 18 | 3 | 0.5 | 2.5 | | 06 | 3 | 0.5 | 4.2 |
| | | | 0.5 | 4.5 | | | | 0.3 | 1.9 |
| | | | | | | 12 | 3 | 0.5 | 4.4 |
| 18 | 00 | 1 | 0.7 | 2.7 | | | | 0.4 | 2.5 |
| | 03 | 1 | 0.6 | 2.8 | | 18 | 3 | 0.4 | 2.6 |
| | 06 | 1 | 0.7 | 2.7 | | | | 0.5 | 4.5 |
| | 09 | 1 | 0.6 | 2.7 | | | | | |
| | 12 | 1 | 0.7 | 2.8 | 26 | 00 | 3 | 0.5 | 2.2 |
| | 18 | 3 | 0.5 | 2.9 | | | | 0.5 | 4.5 |
| | | | 0.5 | 4.5 | | 06 | 3 | 0.5 | 2.5 |
| | | | | | | | | 0.5 | 4.5 |
| 19 | 00 | 3 | 0.5 | 2.7 | | 12 | 3 | 0.6 | 2.7 |
| | | | 0.4 | 4.4 | | | | 0.5 | 4.6 |
| | 06 | 2 | 0.5 | 5.0 | | 18 | 3 | 0.5 | 2.3 |
| | | | 0.3 | 4.0 | | | | 0.5 | 4.8 |
| | 12 | ... | - | - | | | | | |
| | 18 | 3 | 0.5 | 3.3 | 27 | 00 | ... | - | - |
| | | | 0.5 | 4.5 | | 06 | 3 | 0.4 | 2.4 |
| | | | | | | | | 0.5 | 4.9 |
| 20 | 00 | 3 | 0.5 | 2.8 | | 12 | 3 | 0.4 | 2.5 |
| | | | 0.5 | 4.9 | | | | 0.5 | 4.9 |
| | 06 | 2 | 0.5 | 3.7 | | 18 | 3 | 0.4 | 2.5 |
| | 12 | 2 | 0.5 | 3.4 | | | | 0.4 | 1.8 |
| | 18 | 2 | 0.5 | 3.7 | | | | | |
| 21 | 00 | 3 | 0.5 | 3.9 | 28 | 00 | 3 | 0.5 | 7.0 |
| | | | 0.3 | 2.0 | | | | 0.3 | 2.4 |
| | 06 | 3 | 0.5 | 3.2 | | 06 | 3 | 0.5 | 7.0 |
| | | | 0.4 | 2.0 | | | | 0.4 | 2.5 |
| | 12 | 3 | 0.6 | 3.4 | | 12 | 3 | 0.6 | 7.0 |
| | | | 0.4 | 2.0 | | | | 0.3 | 2.5 |
| | 18 | 3 | 0.6 | 3.6 | | 18 | 3 | 0.5 | 7.0 |
| | | | 0.4 | 2.0 | | | | 0.3 | 2.0 |

IV

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN AMPLITUDE IN m. m. | MEAN PERIOD IN SEC. |
|----------------------------------|------|---|------------------------------|---------------------------|--------------------------------|------|---|-------------------------------|---------------------------|
| STATION : Bombay (Contd.) | | | | | MONTH : February, 1960. | | | | |
| 29 | 00 | 3 | 0.5 | 6.8 | 09 | 00 | 3 | 0.3 | 2.3 |
| | | | 0.3 | 2.5 | | 03 | 3 | 0.2 | 2.2 |
| | 06 | 3 | 0.4 | 2.2 | | 06 | 3 | 0.2 | 2.3 |
| | | | 0.4 | 6.9 | | 12 | 3 | 0.3 | 2.3 |
| | 12 | 3 | 0.7 | 6.9 | | 18 | 3 | 0.3 | 2.5 |
| | | | 0.4 | 2.3 | | | | | |
| | 18 | 3 | 0.6 | 6.6 | 10 | 00 | 3 | 0.2 | 2.5 |
| | | | 0.3 | 2.4 | | 03 | 3 | 0.2 | 2.3 |
| | | | | | | | 3 | 0.1 | 1.1 |
| 01 | 00 | 3 | 0.2 | 2.6 | | 06 | 3 | 0.2 | 2.1 |
| | 03 | 3 | 0.3 | 2.9 | | | 3 | 0.1 | 1.2 |
| | 06 | 3 | 0.3 | 2.6 | | 12 | 3 | 0.1 | 1.4 |
| | 12 | 3 | 0.3 | 3.0 | | 18 | 3 | 0.3 | 2.4 |
| | 18 | 3 | 0.3 | 2.9 | | | 3 | 0.2 | 1.8 |
| 02 | 00 | 3 | 0.3 | 3.0 | 11 | 00 | 3 | 0.2 | 2.2 |
| | 03 | 3 | 0.3 | 3.0 | | 03 | 3 | 0.2 | 2.2 |
| | 06 | 3 | 0.3 | 3.0 | | 06 | 3 | 0.2 | 2.1 |
| | 12 | 3 | 0.2 | 3.0 | | 12 | 3 | 0.2 | 2.0 |
| | 18 | 3 | 0.3 | 3.1 | | 18 | 3 | 0.2 | 2.3 |
| 03 | 00 | 3 | 0.2 | 3.0 | 12 | 00 | 3 | 0.2 | 2.2 |
| | 03 | 3 | 0.4 | 3.3 | | 03 | 3 | 0.2 | 2.4 |
| | 06 | 3 | 0.4 | 3.6 | | 06 | 3 | 0.2 | 2.2 |
| | 12 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.2 | 2.2 |
| | 18 | 3 | 0.4 | 4.0 | | 18 | 3 | 0.2 | 2.1 |
| 04 | 00 | 3 | - | - | 13 | 00 | 3 | 0.2 | 2.1 |
| | 03 | 3 | 0.4 | 4.1 | | 03 | 3 | 0.2 | 2.1 |
| | 06 | 3 | 0.3 | 3.7 | | 06 | 3 | 0.2 | 2.1 |
| | 12 | 3 | 0.4 | 4.1 | | 12 | 3 | 0.2 | 2.1 |
| | 18 | 3 | 0.3 | 3.8 | | 18 | 3 | 0.2 | 2.2 |
| 05 | 00 | 3 | 0.2 | 3.8 | 14 | 00 | 3 | 0.2 | 2.2 |
| | 03 | 3 | 0.3 | 3.7 | | 03 | 3 | 0.2 | 2.1 |
| | 06 | 3 | 0.3 | 3.8 | | 06 | 3 | 0.2 | 2.1 |
| | 12 | 3 | 0.3 | 3.5 | | 12 | 3 | 0.1 | 1.9 |
| | 18 | 3 | 0.3 | 3.5 | | 18 | 3 | 0.1 | 1.6 |
| | | 3 | 0.2 | 2.7 | | | 3 | 0.2 | 2.7 |
| 06 | 00 | 3 | 0.2 | 2.6 | 15 | 00 | 3 | 0.2 | 2.4 |
| | 03 | 3 | 0.3 | 2.7 | | 03 | 3 | 0.2 | 2.6 |
| | 06 | 3 | 0.2 | 2.5 | | | 3 | 0.1 | 1.2 |
| | 12 | 3 | 0.3 | 2.5 | | 06 | 3 | 0.3 | 2.5 |
| | 18 | 3 | 0.3 | 2.7 | | | 3 | 0.2 | 1.4 |
| 07 | 00 | 3 | 0.2 | 2.4 | | 12 | 3 | 0.3 | 2.5 |
| | 03 | 3 | 0.2 | 2.3 | | | 3 | 0.2 | 1.6 |
| | 06 | 3 | 0.2 | 2.4 | | 18 | 3 | 0.3 | 2.8 |
| | 12 | 3 | 0.3 | 2.6 | | | 3 | 0.2 | 1.9 |
| | 18 | 3 | 0.2 | 2.5 | 16 | 00 | 3 | 0.3 | 2.6 |
| 08 | 00 | 3 | 0.2 | 2.5 | | 03 | 3 | 0.4 | 2.6 |
| | 03 | 3 | 0.2 | 2.3 | | 06 | 3 | 0.5 | 3.1 |
| | 06 | 3 | 0.3 | 2.4 | | 12 | 3 | 0.5 | 2.8 |
| | 12 | 3 | 0.3 | 2.5 | | 18 | 3 | 0.5 | 3.1 |
| | 18 | 3 | 0.3 | 2.5 | | | | | |

V

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|------|---|---------------------------|------------------------|------|------|---|---------------------------|------------------------|
|------|------|---|---------------------------|------------------------|------|------|---|---------------------------|------------------------|

STATION : Madras (Contd.)

MONTH : February, 1960.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|----|-----|-----|
| 17 | 00 | 3 | 0.4 | 3.1 | 24 | 00 | 2 | 0.5 | 3.9 |
| | 03 | 3 | 0.3 | 2.9 | | 03 | 2 | 0.4 | 3.9 |
| | 06 | 3 | 0.3 | 2.9 | | 06 | 2 | 0.4 | 3.9 |
| | 12 | 3 | 0.2 | 2.9 | | 12 | 2 | 0.4 | 3.8 |
| | 18 | 3 | 0.3 | 3.1 | | 18 | 2 | 0.5 | 4.0 |
| 18 | 00 | ... | - | - | | 25 | 00 | 2 | 0.4 |
| | 03 | 3 | 0.3 | 3.3 | | | 03 | 2 | 0.4 |
| | 06 | 3 | 0.3 | 3.2 | | | 06 | 3 | 0.3 |
| | 12 | 3 | 0.2 | 2.9 | | | 12 | 3 | 0.3 |
| | 18 | 3 | 0.3 | 2.8 | | | 18 | 2 | 0.4 |
| 19 | 00 | 3 | 0.3 | 3.0 | | | 25 | 3 | 0.2 |
| | 03 | 3 | 0.1 | 1.9 | | | 03 | 2 | 0.4 |
| | 06 | 3 | 0.3 | 2.9 | | | 06 | 3 | 0.3 |
| | 12 | 3 | 0.1 | 1.1 | | | 12 | 3 | 0.3 |
| | 18 | 3 | 0.4 | 2.9 | | | 18 | 3 | 0.3 |
| | 00 | 3 | 0.1 | 1.2 | | | 26 | 00 | 2 |
| | 03 | 3 | 0.3 | 3.6 | | | | 03 | 2 |
| | 06 | 3 | 0.1 | 1.5 | | | | 06 | 3 |
| 20 | 00 | 3 | 0.4 | 3.4 | | | | 12 | 2 |
| | 03 | 1 | 0.4 | 3.7 | | | | 18 | 3 |
| | 06 | 1 | 0.4 | 3.5 | | | | 27 | 00 |
| | 12 | 1 | 0.5 | 3.7 | | | | 03 | ... |
| | 18 | 1 | 0.5 | 3.6 | | | | 06 | ... |
| 21 | 00 | 1 | 0.5 | 3.6 | | | | 12 | 2 |
| | 03 | 1 | 0.6 | 3.7 | | | | 18 | 2 |
| | 06 | 1 | 0.5 | 3.4 | | | | 28 | 00 |
| | 12 | 3 | 0.4 | 2.7 | | | | 03 | 2 |
| | 18 | 1 | 0.6 | 3.3 | | | | 06 | 2 |
| | 00 | 3 | 0.4 | 2.8 | | | | 12 | 2 |
| | 03 | 1 | 0.6 | 3.7 | | | | 18 | 2 |
| | 06 | 3 | 0.4 | 2.9 | | | | 29 | 00 |
| 22 | 00 | 1 | 0.6 | 3.8 | | | | 03 | 2 |
| | 03 | 3 | 0.3 | 2.8 | | | | 06 | 2 |
| | 06 | 3 | 0.5 | 3.7 | | | | 12 | 2 |
| | 12 | 3 | 0.3 | 2.5 | | | | 18 | 2 |
| | 18 | 3 | 0.5 | 3.9 | | | | 29 | 03 |
| | 00 | 3 | 0.2 | 1.7 | | | | 06 | 2 |
| | 03 | 3 | 0.5 | 3.6 | | | | 12 | 2 |
| | 06 | 3 | 0.2 | 1.6 | | | | 18 | 2 |
| | 12 | 3 | 0.6 | 3.9 | | | | 01 | 00 |
| | 18 | 3 | 0.3 | 2.5 | | | | 06 | 0.. |
| | 00 | 3 | 0.1 | 1.6 | | | | 12 | 0.. |
| 23 | 00 | 2 | 0.5 | 3.5 | | | | 18 | 0.. |
| | 03 | 3 | 0.3 | 2.3 | | | | 02 | 00 |
| | 06 | 2 | 0.5 | 3.9 | | | | 06 | 0.. |
| | 12 | 3 | 0.4 | 2.9 | | | | 12 | 0.. |
| | 18 | 2 | 0.5 | 4.0 | | | | 18 | 0.. |
| | 00 | 3 | 0.5 | 3.1 | | | | 01 | 00 |
| | 03 | 2 | 0.6 | 3.8 | | | | 06 | 0.. |
| | 06 | 3 | 0.4 | 2.8 | | | | 12 | 0.. |
| | 12 | 2 | 0.5 | 4.0 | | | | 18 | 0.. |
| | 18 | 3 | 0.4 | 2.9 | | | | 02 | 00 |
| | 00 | 2 | 0.5 | 3.5 | | | | 06 | 0.. |
| | 03 | 3 | 0.3 | 2.3 | | | | 12 | 0.. |
| | 06 | 2 | 0.5 | 3.9 | | | | 18 | 0.. |
| | 12 | 3 | 0.4 | 2.9 | | | | 01 | 00 |
| | 18 | 2 | 0.5 | 4.0 | | | | 06 | 0.. |
| | 00 | 3 | 0.5 | 3.1 | | | | 12 | 0.. |
| | 03 | 2 | 0.6 | 3.8 | | | | 18 | 0.. |
| | 06 | 3 | 0.4 | 2.8 | | | | 02 | 00 |
| | 12 | 2 | 0.5 | 4.0 | | | | 06 | 0.. |
| | 18 | 3 | 0.4 | 2.9 | | | | 12 | 0.. |

STATION : Port Blair

VI

| DATE | HOUR | K | MEAN | MEAN | DATE | HOUR | K | MEAN | MEAN |
|------|------|---|-----------|---------|------|------|---|------------|---------|
| | GMT | | AMPLITUDE | PERIOD | | GMT | | AMPLITUDE | PERIOD |
| | | | IN MICRON | IN SEC. | | | | IN MICRON. | IN SEC. |

STATION : Port Blair (Contd.)

MONTH: February, 1960

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|---|---|
| 03 | 00 | 0.. | - | - | 14 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0,0 | - | - | | 12 | 0.. | - | - |
| | 18 | 0,0 | - | - | | 18 | 0.. | - | - |
| 04 | 00 | 0,0 | - | - | 15 | 00 | 0.. | - | - |
| | 06 | 0,0 | - | - | | 06 | 0.. | - | - |
| | 12 | 0,0 | - | - | | 12 | 0.. | - | - |
| | 18 | 0,0 | - | - | | 18 | 0.. | - | - |
| 05 | 00 | 0,0 | - | - | 16 | 00 | 0.. | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.8 | 3.3 | | 18 | 0,0 | - | - |
| 06 | 00 | 3 | 0.8 | 3.3 | 17 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.8 | 3.3 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.8 | 3.3 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.3 | | 18 | 0,0 | - | - |
| 07 | 00 | 3 | 0.4 | 3.4 | 18 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 08 | 00 | 0,0 | - | - | 19 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 09 | 00 | 0,0 | - | - | 20 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 10 | 00 | 0,0 | - | - | 21 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 11 | 00 | 0.. | - | - | 22 | 00 | 0,0 | - | - |
| | 06 | 0.. | - | - | | 06 | 0,0 | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0,0 | - | - |
| 12 | 00 | 0.. | - | - | 23 | 00 | 0,0 | - | - |
| | 06 | 0.. | - | - | | 06 | 0,0 | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0,0 | - | - |
| 13 | 00 | 0.. | - | - | 24 | 00 | 0,0 | - | - |
| | 06 | 0.. | - | - | | 06 | 0,0 | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0,0 | - | - |

VII

| DATE | HOUR | K | MEAN | MEAN | DATE | HOUR | K | MEAN | MEAN |
|------|------|---|------------|---------|------|------|---|-----------|---------|
| | GMT | | AMPLITUDE | PERIOD | | GMT | | AMPLITUDE | PERIOD |
| | | | IN MICRON. | IN SEC. | | | | IN MICRON | IN SEC. |

STATION: Port Blair MONTH: February 1960

| | | | | | | | | | |
|----|----|-----|---|---|----|----|-----|---|---|
| 25 | 00 | 0,0 | - | - | 27 | 12 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 18 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | 28 | 00 | 0,0 | - | - |
| | | | | | | 06 | 0,0 | - | - |
| 26 | 00 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 18 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | 29 | 00 | 0,0 | - | - |
| | | | | | | 06 | 0,0 | - | - |
| 27 | 00 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 18 | 0,0 | - | - |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

March, 1967



Published under the direction of
Shri P. R. Krishna Rao,
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| STATION | LATI- TUDE | LONGI- TUDE | HEIGHT a.s.l. (Metres) | LITHOGRAPHIC FOUNDATION | INSTRUMENT | COMPT. | PERIOD IN SECS | STATIC MAGNIFI- CATION | DAMPING RATIO | PAPER SPEED mm/min | |
|-------------|---------------|----------------|------------------------------|--|---------------------------|---------------|----------------------|------------------------------|------------------|--------------------------|------|
| Agra | | | | | Columbia | E | To=15 | | | 15 | |
| | | | | | Long Period | | Tg=100 | | | | |
| | | | | | -do- | N | To=15 | | | 15 | |
| | | | | | -do- | Z | Tg=8.5 | | | 15 | |
| | | | | | -do- | | To=15 | | | 15 | |
| | | | | | -do- | | Tg=70 | | | 15 | |
| Bombay | 18° 54' N | 72° 49' E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To=Tg=7.2 secs | | | 30 | |
| Bokaro | 23° 50' N | 85° 48' E | | Pock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h=0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h=0.8 | 60 | |
| Calcutta | 22° 32' N | 88° 22' E | (1) 7 | (Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | (2) 6 | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | | Omori-Ewing | N | 16 | 32 | | 25.4 |
| | | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 |
| | | | | | | Alluvium | | | | | |
| Chatra | 26° 50' N | 87° 10' E | 161 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| | | | | | Benioff | Z | To=0.72 | Tg=0.45 | Critical | 60 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| Colombo | 06° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - | |
| Dehra dun | 30° 19' N | 78° 02' E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| Hyderabad | 17° 25' N | 78° 27' E | 536 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| Kodaikanal | 10° 14' N | 77° 28' E | 2346 | Kock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| Madras | 13° 00' N | 80° 11' E | 15 | - | Sprengnether | E | To=Tg=72.2 secs | | Critical | 30 | |
| New Delhi | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | | |
| POONA | 18° 32' N | 73° 51' E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.5 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 15 | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| Port Blair | 11° 49' N | 92° 43' E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 55:1 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | |
| Shillong | 25° 34' N | 91° 53' E | 1500 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 | h=0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 60 | |
| | | | | | Sprengnether | E | To=Tg=5.5 | | Critical | 30 | |
| | | | | | Wenner Acce- lerograph | ZNE | | | | | |
| Tocklai | 28° 45' N | 94° 45' E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | |
| Vizianagram | 18° 07' N | 83° 27' E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

| DATE | STATION | COMPT. | PHASE | G. h | M. m | T. s | Δ km. | REMARKS |
|--------------------|------------|--------|------------|---------|---------|---------|-----------------|---------------------------------|
| <u>March, 1960</u> | | | | | | | | |
| 01 | Hyderabad | N | e | 00 | 02 | 25 | | |
| | Colombo | E | e | 00 | 03 | 25 | | |
| | | | e | | 28 | 20 | | |
| | | | e | | 37 | 35 | | |
| 01 | Kodaikanal | E | e | 00 | 22 | 46 | | Tremor. |
| 01 | Shillong | Z | iP | 00 | 39 | 46 | | Slight, distant compression. |
| 01 | Shillong | Z | iP | 04 | 33 | 23 | | Slight, rarefaction |
| | Port Blair | N | i | 04 | 41 | 02 | | Slight. |
| 01 | Shillong | Z | iP | 07 | 12 | 24 | | Slight, near rarefaction. |
| 01 | Shillong | Z | iP | 08 | 20 | 33 | | Slight, rarefaction. |
| 01 | Shillong | Z | e | 12 | 00 | 26 | | Tremor. |
| 01 | Shillong | Z | eP | 12 | 24 | 21 | | Slight, near. |
| 01 | Shillong | Z | e | 12 | 41 | 49 | | Tremor. |
| 01 | Shillong | Z | eP | 15 | 38 | 41 | | Slight, distant. |
| 01 | Shillong | Z | iPg iSg | 18 | 26 | 15 | 30 | Slight. |
| | | | | | 26 | 24 | | |
| 01 | Shillong | Z | iP | 22 | 03 | 09 | | Slight, compression. |
| | Chatra | Z | iP | 22 | 03 | 46 | | Feeble. |
| 02 | Shillong | Z | iP | 04 | 52 | 26 | | Slight, compression. |
| 02 | Shillong | Z | Pg Sg | 07 | 30 | 50 | 200 | Slight. |
| | | | | | 30 | 54 | | |
| 02 | Shillong | Z | e i | 15 | 43 | 23 | | Slight, near. |
| | | | | | 44 | 23 | | |
| 02 | Shillong | Z | Pg Sg | 17 | 40 | 45 | 100 | Slight. |
| | | | | | 40 | 56 | | |
| 02 | Chatra | Z | eP | 20 | 08 | 55 | | Very feeble. |
| | Shillong | Z | iP | 20 | 09 | 15 | | Slight, compression. |
| 03 | Shillong | Z | iP | 01 | 14 | 34 | | Slight, compression. |
| 03 | Shillong | Z | iPg Sg | 05 | 57 | 46 | 120 | Slight. |
| | | | | | 58 | 00 | | |
| 03 | Shillong | Z | i i | 06 | 59 | 41 | | Slight, near. |
| | | | | 07 | 00 | 59 | | |

| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|--------------------|--|--------------|---|----------|----------|---|-----------------|---|
| <u>March, 1960</u> | | | | | | | | |
| 03 | Port Blair | N | iPg iSg | 13 | 47 | 35 47 41 | 50 | Slight. |
| 03 | Epc: $40\frac{1}{2}^{\circ}$ N, 70° E, Sinkiang Province, China. -H= 14 h. 15 m. 02 s. (U.S.C.G.S.). | | | | | | | |
| | Dehra Dun | NE N | eP iS SS SSS M | 14 | 17 | 41 19 34 19 45 20 03 20 59 | 1100 | Slight. |
| | Agra | 2N | iP | 14 | 18 | 15 | | Slight, near, initial ground motion towards South. |
| | Chatra | Z NE | eP eS | 14 | 18 | 49 21 40 | 1700 | Slight. |
| | Shillong | Z E | iP PP PPP iS iQ SS SSS M | 14 | 19 | 26 19 49 19 57 23 02 23 13 23 22 23 37 26 02 | 2180 | Slight, rarefaction |
| | Calcutta | E | e i i | 14 | 20 | 01 23 31 28 49 | | Slight. |
| | Bombay | NE N E | eP eS SS | 14 | 20 | 06 24 15 25 10 | 2590 | Slight. |
| | Poona | Z M | iP i | 14 | 20 | 09 25 21 | | Slight. |
| | Madras | E | e e e | 14 | 26 | 14 30 07 30 53 | | |
| 03 | Shillong | Z | iP | 15 | 00 | 12 | | Slight, rarefaction. |
| 03 | Shillong | Z | e | 16 | 00 | 03 | | Tremor. |
| 03 | Shillong | Z | eP i Sg | 16 | 26 | 25 26 37 26 40 | 120 | Slight. |
| 03 | Shillong | Z | eP | 17 | 17 | 31 | | Slight. |
| 03 | Shillong | Z | iP | 19 | 23 | 17 | | Slight, near. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|--|---|--|-----------------|---|
| <u>March, 196E.</u> | | | | | | |
| 04 | Chatra | Z | P | 02 27 34 | | Feeble. |
| | Poona | Z | iP | 02 28 50 | | Feeble, rarefaction. |
| 04 | Epc: 31 N, 129 E, Near South coast of Kyushu, Japan., -H = 03h. 53 m. 00 s., h about 100 kms., Mag.: 6½ (Pas).. | | | | | (U.S.C.G.S.) |
| | Shillong | ZE E | iP sP PP PPP e sP e e SS | 03 59 42 04 00 27 01 06 01 21 01 37 05 52 06 00 06 08 07 33 | 3820 | Initial ground movement towards West and compression. |
| | Chatra | Z NE | P e | 04 00 17 08 51 | | Compression. |
| | Calcutta | E | eP iS iQ | 04 00 22 06 24 09 04 | 4550 | |
| | Bokaro | NE | iP i | 04 00 31 02 51 | | |
| | Dehra Dun | NE E | eP sP PP PPP iS PS sS SS | 04 01 16 01 55 02 57 03 39 07 39 07 46 08 25 10 45 | 4890 | |
| | Agra | ZNE NE | iP PP iS PS SS SSS | 04 01 16 03 05 07 42 07 51 10 55 12 07 | 4920 | Initial ground motion towards South, West and compression. |
| | Hyderabad | NE N NE N NE N E N E | iP PcP PP PPP iS PRS SoS SS SSS LR LR M M | 04 01 42 02 46 03 38 04 57 08 43 09 15 11 22 12 20 14 12 16 42 16 45 20 27 20 54 | 5530 | Initial ground motion towards West and South. |
| | | | | | | Period=9 sec. Gr.dis=2 μ Period=10 sec. Gr.dis=1 μ |

| STATION | CODE | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------|---|--|---|-----------------|---------------------------------------|
| 04 | | | <u>March, 1960.</u> | | |
| 04 Madras contd. | E | is s e i P i s s | 04 01 48 02 19 02 55 03 45 04 46 07 07 08 54 09 38 | 5630 | Initial ground movement towards West. |
| Coona | E N | e i | 04 02 11 10 15 | | Compression. |
| Bombay | ENE | i i e e | 04 02 12 09 58 10 30 15 16 | | |
| Colombo | E | e | 04 02 17 | | |
| Kodaikanal | E | e | 04 02 18 | | Tremor. |
| 04 Shillong | E | i | 07 09 38 | | Slight, rarefaction. |
| 04 Shillong | E | i | 12 03 19 | | Slight, rarefaction. |
| 04 Shillong | E | e | 13 13 58 | | Tremor. |
| 04 Shillong | E | i | 20 24 21 | | Slight, rarefaction. |
| 04 | Epc: 7 ^o N, 94 ^o E, Nicobar Islands., -H = 21 h. 05 m. 45 s., (U.S.C.G.S.) | | | | |
| Fort Blair | E | iP iP eG i eG | 21 07 05 07 09 07 20 07 55 08 18 | 540 | Slight. |
| Colombo | E | e e e | 21 09 11 13 01 15 16 | | |
| Madras | E | eP iP iP i i eG i i | 21 09 20 09 33 09 41 12 23 12 45 12 57 13 13 14 29 | 1840 | Slight. |
| Calcutta | E | e i | 21 09 46 12 46 | | Slight. |

- 7 -

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ km. | REMARKS |
|---------------------|------------|---------------------------------------|---|----|----|----|-----------------|--|
| | | | | h. | m. | s. | | |
| <u>March, 1960.</u> | | | | | | | | |
| | Bokaro | NE N | iP PPP iS SS M | 21 | 09 | 54 | 2060 | Slight. |
| | Kodaikanal | E | e | 21 | 09 | 54 | | Tremor. |
| | Shillong | Z E | iP PP PPP e eS SS | 21 | 09 | 57 | 2060 | Slight,, compression. |
| | Hyderabad | EN N NE N E N E | iP PP iS SS SSS LR LR M M | 21 | 10 | 02 | 2100 | Slight, Initial ground movement towards North and West. Period=19 secs. Gr.disP.=8/u Period= 18 secs. Gr.disP.=5/u |
| | Chatra | Z NE | eP S | 21 | 10 | 25 | 2310 | Slight, rarefaction. |
| | Poona | Z N | iP iS | 21 | 10 | 54 | 2700 | Slight Initial ground movement North, West and compression. |
| | Bombay | NE | eP PPP eS LQ M | 21 | 11 | 04 | 2710 | Slight. Period = 15 Gr.displ = 3/u |
| | Agra | NE N | iP iS SSS | 21 | 11 | 13 | 2840 | Moderate, Initial ground motion towards North, West and compression. |
| | Dehra Dun | NE N | eP e i e e LR M | 21 | 11 | 41 | | Slight |
| 04 | Shillong | Z | iP | 21 | 18 | 06 | | Slight compression |

| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|---------------------|--|---------|--|----------|--|--|-----------------|--|
| <u>March, 1960.</u> | | | | | | | | |
| 04 | Shillong | Z | P Sg | 21 | 30 31 | 49 24 | 240 | Slight |
| 04 | Shillong | Z | e | 22 | 10 | 45 | | Tremor |
| 05 | Shillong | Z | iP | 06 | 57 | 35 | | Slight, rarefaction. |
| 05 | Shillong | Z | iP | 08 | 14 | 36 | | Slight, rarefaction. |
| 05 | Epc: 29° N, 81° E, Nepal. - H = 11 h. 25 m. 09 s. (U.S.C.G.S.). | | | | | | | |
| | Dehra Dun | NE N | eP P* PP PPP LQ LR iS SS SSS | 11 | 25 26 26 26 26 26 26 26 26 | 56 00 04 10 21 28 31 42 52 | 310 | Slight. |
| | Agra | ZNE | iP PP PPP S SSS i | 11 | 26 26 26 26 27 27 | 04 15 22 46 08 34 | 390 | Initial ground Motion towards North and East. |
| | Chatra | Z NE | iP Sn | 11 | 26 27 | 35 41 | 620 | Feeble, compression. |
| | Bokaro | NE | eP eS Sg | 11 | 26 28 28 | 49 04 44 | 720 | Slight. |
| | Sehore | NE | eP PP PPP iS SS SSS M | 11 | 26 26 27 28 28 28 28 | 49 55 05 14 25 35 59 | 820 | Mild. |
| | Shillong | Z | iP PPP LQ iS SS LR M | 11 | 27 27 29 29 29 29 30 | 29 43 10 17 26 31 19 | 1060 | Slight, initial ground movement towards East and compression. |
| | Calcutta | E | eP iS | 11 | 27 29 | 29 19 | 1070 | Moderate. |
| | Tocklai | E | eP | 11 | 27 | 56 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|---------------------|---|--------|-------|----------------------|-----------------|--|
| <u>March, 1960.</u> | | | | | | |
| | Hyderabad | N | eP | 11 27 57 | 1260 | Moderate. |
| | | E | iS | 30 05 | | |
| | | N | M | 31 16 | | |
| | | E | M | 31 21 | | Period=12 sec. Gr.dis.= 15/u Period=9 sec. Gr.dis.= 3/u |
| | Vizianagram | NE | eP | 11 28 02 | | Slight, distant. |
| | Poona | Z | iP | 11 28 06 | 1330 | Slight, rarefaction. |
| | | | iS | 30 22 | | |
| | Bombay | NE | eP | 11 28 11 | 1330 | Slight. |
| | | E | LQ | 30 15 | | |
| | | NE | eS | 30 27 | | |
| | | | SS | 30 42 | | |
| | | | SSS | 30 53 | | |
| | Madras | E | eP | 11 28 57 | 1780 | Slight. |
| | | FP | FPF | 29 14 | | |
| | | | LQ | 31 48 | | |
| | | | iS | 31 55 | | |
| | | | SS | 32 06 | | |
| | | | SSS | 32 21 | | |
| | | | LR | 32 34 | | |
| | Port Blair | E | eP | 11 29 54 | 2380 | Slight. |
| | | | iS | 33 48 | | |
| | Kodaikanal | E | iS | 11 33 08 | | Other phases not clear. |
| | | | M | 35 29 | | Period= 12 sec. Gr.dis.= 9/u |
| 05 | Shillong | Z | Ig | 13 17 10 | 10 | Slight. |
| | | | Sg | 17 12 | | |
| 05 | epc: 1°N, 129°E, Halmehra I. -H = 15h 49m 16s (USCGS) Mag. 6 $\frac{1}{2}$ (Pas). | | | | | |
| | Port Blair | E | iP | 13 56 37 | 4110 | |
| | | | PP | 58 05 | | |
| | | | PcP | 59 05 | | |
| | | | iS | 14 02 23 | | |
| | | | ScP | 02 49 | | |
| | Tocklai | E | eP | 13 57 14 | | Distant, slight. |
| | | | i | 57 18 | | |
| | Shillong | ZNE | iP | 13 57 22 | 4800 | Initial ground movement towards North, West and compression. |
| | | | i | 57 23 | | |
| | | | i | 57 42 | | |
| | | | PcS | 14 03 12 | | |
| | | | iS | 03 49 | | |
| | | | e | 04 04 | | |
| | | | LQ | 07 14 | | |
| | | | SSS | 07 42 | | |
| | | | LR | 09 14 | | |
| | Calcutta | E | eP | 13 57 35 | 5110 | |
| | | | iS | 14 04 20 | | |


| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. | |
|--------------------|------------|--------|-------|----------------------|-----------------|--|-------|
| <u>March, 1960</u> | | | | | | | |
| | Chatra | Z | iP | 13 57 58 | 5280 | Initial ground movement towards South, East & rarefaction. | |
| | Bokaro | NE | iP | 13 57 59 | 5240 | | |
| | | N | PPP | 14 00 32 | | | |
| | | | iS | 04 52 | | | |
| | | | LQ | 09 07 | | | |
| | | | LR | 11 19 | | | |
| | | | M | 15 17 | | | |
| | Colombo | E | P | 13 58 10 | | | |
| | | | e | 14 05 12 | | | |
| | | | e | 05 32 | | | |
| | Madras | E | iP | 13 58 14 | 5510 | Initial ground movement towards East. | |
| | | | PcP | 59 28 | | | |
| | | | PP | 14 00 12 | | | |
| | | | PPP | 00 53 | | | |
| | | | iS | 05 22 | | | |
| | | | PS | 05 27 | | | |
| | | | PFS | 05 31 | | | |
| | | | SoS | 07 58 | | | |
| | | | SS | 08 52 | | | |
| | | | LQ | 09 57 | | | |
| | | | SSS | 10 03 | | | |
| | | | LR | 12 00 | | | |
| | | | M | 16 55 | | | |
| | Kodaikanal | E | iP | 13 58 29 | 5800 | Initial ground motion towards East. | |
| | | | PPP | 14 01 29 | | | |
| | | | iS | 05 53 | | | |
| | | | SS | 09 32 | | | |
| | | | SSS | 11 20 | | | |
| | | | LR | 13 53 | | | |
| | | | M | 17 58 | | | |
| | Hyderabad | E | iP | 13 58 31 | 5810 | Initial ground motion towards East. | |
| | | | PcP | 13 59 57 | | | |
| | | | PP | 14 00 25 | | | |
| | | | Pos | 03 42 | | | |
| | | | iS | 05 56 | | | |
| | | | SoS | 07 55 | | | |
| | | | SS | 09 34 | | | |
| | | | LR | 13 15 | | | |
| | | | E | LR | | | 13 50 |
| | | | N | M | | | 18 42 |
| | | M | 19 44 | | | | |
| | Agra | ZNE | iP | 13 58 56 | 6080 | Initial ground motion towards East. | |
| | | | i? | 59 16 | | | |
| | | ZE | e | 14 01 21 | | | |
| | | ZNE | iS | 06 35 | | | |
| | | | PS | 06 47 | | | |
| | | NE | i? | 07 07 | | | |
| | | | i? | 07 43 | | | |
| | | | SoS | 08 25 | | | |
| | | | SS | 09 53 | | | |
| | | N | i? | 13 35 | | | |
| | | ZN | i? | 14 57 | | | |
| | | Z | i? | 16 51 | | | |

Period=15 sec. Gr.dis=14/u

 Period= 24 sec. Gr.dis= 29/u
 Period= 25 sec. Gr.dis= 32/u

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|-------------|--|-----------------------|---|---|-----------------|--|
| March, 1960 | | | | | | |
| | Poona | Z NE | iP iS | 13 59 06 14 06 53 | 6200 | Initial ground movement towards South, East and Rarefaction. |
| | Dehra Dun | NE N | eP PP PPP iS SS SSS LQ LR M | 13 59 08 14 01 19 02 37 06 54 10 29 12 58 13 10 15 46 20 38 | 6190 | |
| | Bombay | NE E N E | eP eS PRS PRS M M | 13 59 12 14 07 09 07 25 07 34 25 22 28 45 | 6390 | Period=19 sec. Gr.dis=15/u Period=15 sec. Gr.dis= 4/u |
| 05 | Shillong | Z | eP | 14 19 35 | | Slight. |
| 05 | Shillong | Z | iP | 14 42 10 | | Slight, rarefaction. |
| 05 | Shillong | Z | iP | 14 59 19 | | Slight, rarefaction. |
| 05 | Shillong | Z | eP | 15 27 25 | | Slight. |
| 05 | Shillong | Z | iP | 15 44 38 | | Slight, compression. |
| 05 | Epc:- 1°N, 129°E, Halmehra after shock. -H = 15h 49m 53s (USGS) | | | | | |
| | Shillong | Z | iP | 15 57 57 | | Slight, rarefaction. |
| 05 | Shillong | Z | iP | 16 07 01 | | Slight, compression. |
| 05 | Shillong | Z | iP | 16 15 19 | | Slight, rarefaction. |
| 05 | Shillong | Z | e | 16 44 45 | | Tremor. |
| 05 | Epc:- 29°N, 81°E, Nepal. -H = 23h 50m 38s (USGS) | | | | | |
| | Dehra Dun | NE N | eP PP PPP LQ LR iS SS SSS | 23 51 34 51 40 51 46 51 55 52 02 52 06 52 18 52 29 | 290 | Slight. |
| | Agra | ZNE | P | 23 51 37 | | Slight, near. |


| DATE | STATION | COMPT. | PHASE | G.M. T. h. m. s. | Δ Km. | REMARKS. |
|--------------------|--|---------|--|---|-----------------|----------------------------------|
| <u>March, 1960</u> | | | | | | |
| | Chatra | Z NE | i e | 23 52 11 53 15 | | Faeble. |
| | Bokaro | NE | eP e | 23 52 33 54 37 | | Slight. |
| | Sehore | NE | e e e i e e M | 23 52 39 52 46 52 55 53 57 54 08 54 18 54 42 | | Slight, distant. |
| | Shillong | Z E | iP PP PPP S SS LR SSS M | 23 53 06 53 11 53 19 55 03 55 12 55 20 55 24 56 16 | 1140 | Slight, rarefaction. |
| | Poona | Z E | eP eS | 23 53 42 55 52 | 1200 | Slight. |
| | Bombay | E NE | e e e | 23 54 02 56 04 57 34 | | Slight, near. |
| | Calcutta | E | e | 23 54 42 | | |
| | Hyderabad | N | M | 23 57 12 | | Period= 15 sec. Gr.dis.= 4 μ |
| 06 | Epc:- 1°N, 129°E, Halmehra after shock. -H = 02h 22m 06s (USCGS). | | | | | |
| | Colombo | E | P S L M | 02 26 41 30 36 48 02 48 30 | 2330 | amp: = 0,5 mm. |
| | Calcutta | E | eP iS i | 02 29 57 36 06 37 20 | 4090 | Slight. |
| | Shillong | Z E | iP PP PPP iS PS PFS SS LQ SSS M | 02 30 11 31 56 32 36 36 39 36 47 36 53 40 08 40 37 41 03 46 17 | 4810 | Slight, rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. |  km | REMARKS. |
|---------------------|------------|-----------------|---------------------------------|---|---|-------------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 06 | Fort Blair | E | e | 02 30 29 | | Slight. |
| | Bokaro | NE | iP eS | 02 30 47 37 49 | 5410 | |
| | Chatra | Z NE | iP e | 02 30 48 37 13 | | Slight, rarefaction. |
| | Madras | E | eP PPP iS PS PPS | 02 31 05 34 09 38 24 38 36 38 45 | 5700 | Slight. |
| | Kodaikanal | E | e | 02 31 15 | | Tremor. |
| | Agra | Z NE | iP | 02 31 44 | | Initial ground motion towards West. |
| | Poona | Z N | eP eS | 02 31 56 39 45 | 6230 | Feeble. |
| | Dehra Dun | NE N | e iS SS SSS LR M | 02 31 57 39 40 43 10 45 11 47 37 52 29 | | Slight. |
| | Bombay | E N E | eP e eS PS | 02 32 03 34 37 39 59 40 11 | 6370 | Slight. |
| 06 | Shillong | Z | iP | 08 05 23 | | Slight, compression. |
| 06 | Shillong | Z | eP i Sg | 08 37 22 37 24 37 40 | 160 | Slight. |
| 06 | Shillong | Z | iP | 09 15 50 | | Slight, compression. |
| 06 | Shillong | Z | iP | 09 51 03 | | Slight, compression. |
| 06 | Shillong | Z | e | 11 38 48 | | Tremor. |
| 06 | Shillong | Z | iP | 16 32 41 | | Slight, rarefaction. |
| 06 | Shillong | Z | eP | 18 59 41 | | Slight. |
| 06 | Shillong | Z | eP | 19 43 18 | | Slight, compression. |
| 06 | Shillong | Z | Pg Sg | 20 58 14 58 26 | 100 | Slight. |
| 06 | Shillong | Z | iP | 22 46 06 | | Slight, compression. |
| 07 | Shillong | Z | iP | 00 24 38 | | Slight, compression. |

| DATE | STATION | COMP | PHASE | G. M. T. | | Δ | REMARKS |
|---------------------|---|------|-------|----------|----|----------|----------------------------------|
| | | | | h. | m. | s. | km. |
| <u>March, 1960.</u> | | | | | | | |
| 07 | Epc: $34\frac{1}{2}^{\circ}$ N, 55° E, Iran, -H = 00 h. 51 m. 40 s. (U.S.C.G.S.) | | | | | | |
| | Dehra Dun | NE | eP | 00 | 56 | 16 | 2170 Slight. |
| | | N | iP | | 59 | 51 | |
| | | | SS | 01 | 00 | 18 | |
| | | | IR | | 00 | 51 | |
| | | | M | | 02 | 22 | |
| | Bombay | E | eP | 00 | 56 | 43 | 2410 Slight. |
| | | | eS | 01 | 00 | 39 | |
| | | | LQ | | 00 | 56 | |
| | Poona | Z | eP | 00 | 56 | 46 | Feeble. |
| | Chatra | Z | iP | 00 | 57 | 39 | 3140 Slight, compression. |
| | | ZNE | S | 01 | 02 | 25 | |
| | Shillong | Z | iP | 00 | 59 | 14 | Slight, compression. |
| | Bokaro | NE | e | 01 | 02 | 29 | Slight. |
| 07 | Shillong | Z | e | 01 | 49 | 48 | Slight, compression. |
| | | | iP | | 49 | 55 | |
| 07 | Shillong | Z | eP | 02 | 14 | 35 | Slight. |
| | Chatra | Z | P | 02 | 15 | 02 | Feeble. |
| 07 | Shillong | Z | iP | 02 | 30 | 30 | Slight, compression. |
| 07 | Epc: $1\frac{1}{2}^{\circ}$ N, $125\frac{1}{2}^{\circ}$ E, Celebes, -H = 05 h. 13 m. 10 s., (U.S.C.G.S.) | | | | | | |
| 07 | Chatra | Z | iP | 05 | 21 | 27 | Slight, distant, compression. |
| | Poona | Z | iP | 05 | 22 | 33 | Feeble, rarefaction. |
| | Bombay | E | eP | 05 | 22 | 41 | 5800 Slight. |
| | | NE | eS | | 30 | 05 | |
| 07 | Shillong | Z | iP | 06 | 20 | 45 | Slight, rarefaction. |
| | Chatra | Z | P | 06 | 21 | 01 | Slight, distant, rarefaction. |
| 07 | Chatra | Z | Pn | 07 | 36 | 05 | 210 Mild. |
| | | | Sn | | 36 | 30 | |
| 07 | Shillong | Z | iP | 09 | 49 | 51 | Slight, compression. |
| 07 | Shillong | Z | iP | 10 | 20 | 51 | Slight, compression. |
| 07 | Shillong | Z | eP | 11 | 40 | 22 | Slight, compression. |

| DATE | STATION | DIRECT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|----------|--|---|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 07 | Shillong | Z | iP iG Sg | 15 19 16 19 18 19 29 | 110 | Slight. |
| | Chatra | Z | P | 15 19 37 | | Feeble. |
| 07 | Shillong | Z | iP | 15 33 59 | | Slight, rarefaction. |
| 07 | Chatra | Z | iP | 15 54 37 | | Mild distant, compression. |
| 07 | Shillong | Z | eP | 16 49 55 | | Slight. |
| 07 | Shillong | Z | iPg Sg | 20 32 18 32 43 | | Slight. |
| 07 | Shillong | Z | iP | 21 20 24 | | Slight, rarefaction. |
| 07 | Shillong | Z | iP | 23 09 42 | | Slight, rarefaction. |
| 08 | Shillong | Z | eP | 05 58 11 | | Slight. |
| 08 | Shillong | Z | iP | 06 35 33 | | Slight, rarefaction. |
| | Dehra Dun | NE | e i | 06 37 56 39 35 | | Feeble. |
| 08 | Shillong | Z | eP Pg Sg | 09 19 33 19 35 19 44 | 80 | Slight. |
| 08 | Shillong | Z | iPg Sg | 13 53 02 53 13 | 90 | Slight. |
| 08 | Epc: 16 $\frac{1}{2}$ S, 168 $\frac{1}{2}$ E, New Hebrides Islands., -H ₀ 16 h. 33 m. 38 s. (U.S.C.G.S.) h = about 250 km. Mag : 7-7 $\frac{1}{2}$ (Pas), 7 (Berk). | | | | | |
| | Port Blair | N | e iS | 16 45 14 55 12 | | |
| | Tocklai | E | iP | 16 45 47 | | Distant. |
| | Shillong | ZNE E | iP PeP pP PP SKS IS PS PIB sS SS SSS | 16 45 55 46 03 45 41 43 45 55 45 55 55 56 48 57 23 57 37 17 02 10 04 44 | \$380 | Initial ground movement towards East and rarefaction. |
| | Calcutta | E | iP e | 16 46 09 52 09 | | Initial ground motion west. |
| | Cha tra | Z NE | iP i | 16 46 15 56 23 | | Rarefaction. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-------------|-------|------------------|----------------------|-----------------|--|
| <u>March, 1960.</u> | | | | | | |
| 08 | Vizianagram | NE | iP | 16 46 22 | | Distant. |
| | Madras | E | iP | 16 46 26 | 10550 | Initial ground movement East. |
| | | | e | 46 35 | | |
| | | | i | 46 5 | | |
| | | | e | 49 26 | | |
| | | | i | 50 05 | | |
| | | | i | 5 56 | | |
| | | | e | 51 27 | | |
| | | | i | 56 37 | | |
| | | | iP | 57 13 | | |
| | | | i | 58 26 | | |
| | | | e | 17 02 02 | | |
| | | | e | 05 07 | | |
| | | | SKS | 07 22 | | |
| | Kodaikanal | E | iP | 16 46 34 | | Initial ground movement East. |
| | | | e | 49 40 | | |
| | | | e | 51 28 | | |
| | | | i | 56 43 | | |
| | | | e | 17 01 58 | | |
| | Hyderabad | NE | iP | 16 46 38 | 10670 | Initial ground movement towards East. |
| | | E | e | 49 41 | | |
| | | N | iP | 50 28 | | |
| | | | e | 51 42 | | |
| | | NE | i | 56 47 | | |
| | | | S | 57 27 | | |
| | | N | e | 02 23 | | |
| | | NE | e | 05 33 | | |
| | | N | e | 09 26 | | |
| | | E | e | 12 47 | | |
| | | N | e | 13 05 | | |
| | | | e | 20 07 | | |
| | | E | e | 20 32 | | |
| | Colombo | | e | 16 46 46 | | |
| | | | e | 47 33 | | |
| | | | e | 49 54 | | |
| | | | e | 51 58 | | |
| | | | e | 56 31 | | |
| | | | e | 57 06 | | |
| | Dehra Dun | NE | eP | 16 46 48 | 10890 | |
| | | N | PP | 50 45 | | |
| | | | i | 52 18 | | |
| | | | PPP | 52 52 | | |
| | | | SKS | 57 10 | | |
| | | | S | 57 44 | | |
| | | | i | 58 55 | | |
| | | | SS | 17 04 41 | | |
| | Poona | Z | iP | 16 46 57 | 11220 | Initial ground motion towards South, East and rarefaction. |
| | | M | SKS | 57 13 | | |
| | | | S | 57 42 | | |
| | Bombay | NE | eP | 16 47 02 | 11330 | |
| | | E | e | 50 28 | | |
| | | N | e | 52 13 | | |
| | | NE | SKS ₁ | 57 52 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. |  km. | REMARKS |
|---------------------|---|----------|--|--|--|---------------------------|
| <u>March, 1960.</u> | | | | | | |
| 08 | Bombay | NE NE | e eS | 57 52 58 16 59 05 | | |
| | | E N | PS e e | 17 00 20 02 46 06 20 | | |
| 08 | Chatra | Z | i | 16 51 10 | | |
| 08 | Chatra | Z | iP | 17 03 43 | | Feeble. |
| 08 | Chatra | Z | iPn Sn | 19 12 26 12 39 | 100 | Mild. |
| | Shillong | Z | i | 19 13 05 13 52 | | Slight, near. |
| 08 | Shillong | Z | i i | 20 02 39 02 54 | | Slight, near. |
| 09 | Shillong | Z | iP | 02 23 27 | | Slight, compression. |
| 09 | Port Blair | N | iPg iSg | 03 19 02 19 18 | 130 | Slight. |
| 09 | Shillong | Z | iP | 05 54 27 | | Slight, rarefaction. |
| 09 | Shillong | Z | iP | 07 34 09 | | Slight, near rarefaction. |
| 09 | Chatra | Z | P | 09 08 30 | | Very feeble. |
| 09 | Shillong | Z | iP P* Pg PPP S S* Sg | 17 57 40 57 42 57 46 57 53 58 12 58 15 58 20 | 290 | Slight. |
| | Chatra | Z | P | 17 58 33 | | Feeble, rarefaction. |
| 09 | Shillong | Z | iP | 19 55 11 | | Slight, compression. |
| 09 | Shillong | Z | Pg Sg | 20 43 58 44 12 | 120 | Slight. |
| 09 | Shillong | Z | iP | 22 16 27 | | Slight, rarefaction. |
| 09 | Chatra | Z | Pn | 22 36 54 | | Mild. |
| 09 | Epc: 16° S, 72° W, Southern Peru. - H = 23 h. 54 m. 20 s. h = about 150 kms., 1 killed, several injured at Amalga. | | | | | |
| 10 | Bombay | NE E | ePKP e | 00 13 56 17 18 | | Slight. |
| | Poona | Z | iPKP | 00 13 58 | | Feeble, rarefaction. |
| | Chatra | Z | ePKP e | 00 14 12 14 46 | | Slight, distant. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-----------|-------|---------------------|-------------------------------------|-----------------|-------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 10 | Shillong | Z | iPKP | 00 14 17 | | Slight, rarefaction. |
| | Madras | E | e e | 00 14 22 17 58 | | Slight. |
| 10 | Shillong | ZE | iF i | 00 15 04 17 59 | | Slight, rarefaction. |
| 10 | Shillong | Z | iP | 09 56 48 | | Slight, rarefaction. |
| 10 | Shillong | Z | iP | 14 41 40 | | Slight, rarefaction. |
| | Chatra | Z | iF | 14 41 59 | | Feeble, rarefaction. |
| | Puna | Z | iP | 14 43 38 | | Feeble, rarefaction. |
| 10 | Shillong | Z | iP | 19 02 05 | | Slight, rarefaction. |
| | Chatra | Z | iP | 14 41 59 | | Feeble, rarefaction. |
| | Poona | Z | iP | 14 43 38 | | Feeble, rarefaction. |
| 10 | Shillong | Z | iP | 1 02 05 | | Slight, rarefaction. |
| | Poona | Z | P | | | Feeble. |
| 10 | Shillong | Z | eP | 20 22 22 | | Slight. |
| 10 | Shillong | Z | iP | 20 53 04 | | Slight, near, Rarefaction. |
| | Chatra | Z | iP | 20 53 30 | | Feeble, compression. |
| 10 | Shillong | Z | iPg Sg | 21 04 17 04 25 | 70 | Slight. |
| 10 | Shillong | Z | e | 21 13 03 | | Tremor. |
| 11 | Shillong | Z | eP | 00 44 25 | | Slight, near. |
| | Calcutta | E | eP i i | 00 44 36 45 35 46 16 | | Slight. |
| | Dehra Dun | NE | e | 00 49 47 | | Feeble. |
| | Bombay | NE | e | 00 53 24 | | Slight. |
| 11 | Shillong | Z | i | 05 57 06 | | Slight, near. |
| 11 | Shillong | Z | eP | 14 07 15 | | Slight, distant. |
| 11 | Shillong | Z | eP | 16 31 00 | | Slight, distant. |
| 12 | Shillong | ZE | iF Pg S Sg | 00 45 15 45 20 45 42 45 45 | 210 | Slight, compression. |
| | Chatra | Z | iP | 00 46 16 | | Feeble, compression. |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ | REMARKS |
|---------------------|--|---------|----------|----|----|----|----------|------------------------------|
| | | | | h. | m. | s. | km. | |
| <u>March, 1960.</u> | | | | | | | | |
| 12 | Shillong | Z | iP | 02 | 25 | 31 | | Slight, distant compression. |
| | Chatra | Z | iP | 02 | 26 | 01 | | Fooble, compression. |
| 12 | Shillong | Z | iP | 07 | 00 | 17 | | Slight, distant rarefaction. |
| 12 | Chatra | Z | P | 11 | 42 | 01 | | Mild, rarefaction. |
| 12 | Epc: 42°N, 21°E, Southern Yugoslavia. 1 Killed, several injured at Tetova and Dobi Dol. -H = 11 h. 54 m. 00 s. | | | | | | | |
| | Bombay | NE E | eP eS | 12 | 02 | 52 | 5590 | |
| | | | | | 10 | 05 | | |
| | Chatra | Z N | iP eS | 12 | 03 | 36 | 6140 | Rarefaction. |
| | | | | | 11 | 19 | | |
| | Shillong | Z | iP | 12 | 04 | 04 | | Distant, rarefaction. |
| | Dehra Dun | NE | e | 12 | 04 | 22 | | |
| 12 | Shillong | Z | eP | 14 | 08 | 19 | | Slight, distant. |
| | Chatra | Z | Pn | 14 | 10 | 21 | | Mild near. |
| 12 | Shillong | Z | iP | 15 | 55 | 28 | | Slight, distant rarefaction. |
| 12 | Shillong | Z | eP | 19 | 14 | 19 | 420 | Slight. |
| | | | Pg | | 14 | 31 | | |
| | | | LR | | 14 | 57 | | |
| | | | eS | | 15 | 00 | | |
| | | | S* | | 15 | 07 | | |
| | | | Sg | | 15 | 17 | | |
| 12 | Epc: 6° S, 152° E, New Britain. -H = 20 h. 30 m. 39 s. (U.S.C.G.S.). Mag: 6½ (Pas). | | | | | | | |
| | Port Blair | N | eP eS | 20 | 41 | 05 | 6900 | |
| | | | | | 49 | 30 | | |
| | Shillong | ZE | iP | 20 | 41 | 35 | 7410 | Initial ground move- |
| | | | PcP | | 42 | 01 | | ment towards East. |
| | | | PP | | 44 | 09 | | |
| | | | PPP | | 45 | 44 | | |
| | | | PcS | | 46 | 05 | | |
| | | | iS | | 50 | 26 | | |
| | | | PS | | 50 | 52 | | |
| | | | PPS | | 51 | 04 | | |
| | | | SKS/ScS | | 51 | 27 | | |
| | Calcutta | E | iP iS | 20 | 41 | 52 | 7710 | Initial ground |
| | | | | | 50 | 59 | | motion East. |

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| DATE | STATION | COMP. | PHASE | G. h. | M. m. | T. s. | Δ km. | REMARKS |
|---------------------|------------|---------------------------------|--|--------------|----------|--|-----------------|--|
| <u>March, 1960.</u> | | | | | | | | |
| | Chatra | Z NE | iP iS | 20 | 42 | 03 17 | 7860 | |
| | Bokaro | NE N | iP e iS | 20 | 42 | 07 39 25 | 7930 | Initial ground motion South East. |
| | Kodaikanal | E | i e i | 20 | 42 | 07 07 07 | | |
| | Colombo | E | e e e e | 20 | 42 | 17 05 47 35 | | |
| | Madras | E | iP FcP iS PS PPS | 20 | 42 | 23 40 55 29 47 | 8220 | |
| | Hyderabad | NE E N E N E | iP iS PS SS SS LQ LR M | 20 21 | 42 | 36 19 51 18 43 11 07 27 | 8440 | Initial ground move- ment towards East and South. Period = 15 secs. Gr. dis: = 4/u Period = 17 secs. Gr. dis: = 4/u. |
| | Dehra Dun | NE N | eP PPP iS PS PPS SS SSS LQ M | 20 | 42 | 53 22 58 38 55 03 29 31 29 | 8910 | |
| | Poona | Z N | eP iS | 20 | 43 | 00 11 | 9040 | Initial ground move- ment towards South East and rarefaction |
| | Bombay | NE | iP iS | 20 | 43 | 06 20 | 9110 | |
| 12 | Chatra | Z | eP | 21 | 54 | 38 | | Feeble. |
| | Shillong | Z | e | 21 | 55 | 00 | | Tremor. |
| 13 | Shillong | Z | Pg Sg | 03 | 14 | 09 23 | 120 | Slight. |

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| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|----------|------|---|--|-----------------|----------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 13 | Shillong | Z | iP | 04 12 45 | | Slight, distant, compression. |
| 13 | Shillong | Z | i | 08 28 31 | | Slight, near. |
| | | | i | 28 35 | | |
| | | | i | 29 49 | | |
| 13 | Shillong | Z | iPg Sg | 17 14 12 14 16 | 30 | Slight. |
| | Chatra | Z | eP | 17 14 55 | | Feeble. |
| 13 | Shillong | Z | Pg Sg | 18 47 51 47 56 | 40 | Slight. |
| 13 | Shillong | Z | Pg Sg | 18 58 15 58 26 | 100 | Slight. |
| 13 | Chatra | Z | iP | 20 54 11 | | Feeble, compression. |
| 13 | Shillong | Z | P Pg Sg | 20 54 43 54 46 55 29 | 420 | Slight. |
| 13 | Chatra | Z | ePn | 22 55 27 | | Feeble, near. |
| 14 | Shillong | Z | e iP | 00 13 06 13 08 | | Slight, distant. |
| 14 | Shillong | Z | eP | 01 00 17 | | Slight, distant. |
| 14 | Shillong | Z | i | 01 01 01 | | Slight, near. |
| | Chatra | Z | iP | 01 01 35 | | Feeble, distant, compression. |
| 14 | Shillong | Z | Pg Sg | 01 11 56 12 16 | 160 | Slight. |
| 14 | Shillong | Z | i i | 04 15 58 16 39 | | Slight, near. |
| 14 | Shillong | Z | i i | 11 38 36 38 48 | | Slight, near. |
| 14 | Tecklai | E | eP | 12 54 27 | | Slight, near. |
| | Shillong | Z | eP P* PPP Pg S/LR S* Sg | 12 54 32 54 39 54 48 54 51 55 20 55 30 55 40 | 40 | Slight. |
| | Chatra | Z | e? | 12 55 19 | | Feeble. |
| 14 | Shillong | Z | Pg Sg | 15 46 57 47 04 | 50 | Slight. |

| DATE | STATION | COMET | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|-------|--------------------|-------------------------------------|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 14 | Shillong | Z | Pg Sg | 18 56 46 56 51 | 40 | Magnitude = 3 $\frac{1}{2}$ |
| 14 | Chatra | Z | ePg | 18 57 38 | | Mild. |
| 14 | Chatra | Z | ePg Sg | 18 58 20 58 42 | 180 | Mild. |
| 14 | Shillong | Z | eP | 19 09 47 | | Slight, distant. |
| 14 | Shillong | Z | eP | 20 21 53 | | Slight, distant. |
| 14 | Shillong | Z | iP | 21 50 51 | | Slight, compression. |
| 14 | Shillong | Z | e i i | 22 19 38 19 47 20 13 | | Slight, near. |
| 14 | Shillong | Z | eP | 23 27 08 | | Slight, distant. |
| 15 | Shillong | Z | iP | 09 08 48 | | Slight, distant, rarefaction. |
| 15 | Epc: 51 N, 174 $\frac{1}{2}$ W, Andreanof Islands, Aleutian Islands., -H = 09 h. 20 m. 56 s. (U.S.C.G.S) | | | | | |
| | Shillong | Z | iP E | 09 32 27 41 51 | 8050 | Slight, compression, other phases not developed. |
| | Chatra | Z | iP NE S | 09 32 39 42 15 | 8290 | Feeble, rarefaction. |
| | Poona | Z | eP | 09 33 53 | | Feeble. |
| 15 | Shillong | Z | i | 22 40 32 | | Tremor. |
| 16 | Shillong | Z | iP | 00 52 07 | | Slight, near, rarefaction. |
| 16 | Chatra | Z | iP | 05 43 43 | | Feeble, rarefaction. |
| | Shillong | Z | iP | 05 44 28 | | Slight, near. |
| 16 | Shillong | Z | P Pg i Sg | 10 00 02 00 04 00 08 00 19 | 10 | Slight. |
| | Chatra | Z | ePn Sn | 10 00 31 00 58 | 230 | Feeble. |
| 16 | Shillong | Z | Pg Sg | 16 14 25 14 31 | 50 | Slight. |
| 16 | Bombay | E | e | 18 05 10 | | Slight. |
| 16 | Shillong | Z | Pg Sg | 19 00 38 00 59 | 180 | Slight. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-----------|-------|---------------------|-------------------------------------|-----------------|----------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 16 | Shillong | Z | e i i | 19 21 50 21 50 22 13 | | Slight, near. |
| | Chatra | Z | P | 19 22 47 | | Feeble. |
| 16 | Shillong | Z | i Pg Sg | 22 54 52 34 34 34 45 | | Slight. |
| 17 | Dehra Dun | NE | e | 04 28 37 | | Tremor. |
| 17 | Shillong | Z | i i | 09 49 02 49 34 | | Slight, near. |
| 17 | Shillong | Z | eP Pg S Sg | 10 56 49 56 51 57 04 57 05 | 10 | Slight. |
| 17 | Shillong | Z | eP | 15 17 07 | | Slight, distant. |
| 17 | Chatra | Z | iPg Sg | 18 43 11 45 18 | 50 | Mild. |
| | Shillong | Z | e | 18 44 22 | | Tremor. |
| 17 | Shillong | Z | iP | 19 29 51 | | Slight, distant, compression. |
| 17 | Shillong | Z | iP | 20 25 11 | | Slight, distant, compression. |
| | Chatra | Z | eP | 20 25 24 | | Feeble, compression. |
| 18 | Shillong | Z | iPg Sg | 00 08 45 09 10 | 210 | Slight. |
| 18 | Shillong | Z | iP S Sg | 05 05 00 05 33 05 36 | 290 | Slight. |
| 18 | Shillong | Z | iP | 12 27 36 | | Slight, distant, compression. |
| 18 | Dehra Dun | NE | e i | 14 48 25 49 58 | | Feeble. |
| | Shillong | Z | iP | 14 50 51 | | Slight, distant, rarefaction. |
| | Madras | E | e | 14 56 29 | | Feeble. |
| 18 | Shillong | Z | Pg Sg | 15 00 12 00 13 | | Slight, local. |
| 18 | Shillong | Z | Pg Sg | 23 18 32 29 21 | | Slight. |
| 19 | Shillong | ZNE | Pg Sg | 05 45 13 45 15 | | Slight, local. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS |
|---------------------|---|--------|-------|----------------------|-----------------|---------------------------------|
| <u>March, 1960,</u> | | | | | | |
| 18 | Shillong | Z | iP | 09 28 39 | | Slight, distant compression. |
| 19 | Shillong | Z | i | 10 30 09 | | Slight, near. |
| | Dehra Dun | NE | e | 10 30 35 | | |
| 19 | Shillong | Z | e | 12 35 53 | | Tremor. |
| 19 | Shillong | Z | iP | 14 17 59 | | Slight, distant rarefaction. |
| 19 | Shillong | Z | Pg | 16 58 19 | 240 | Slight. |
| | | | Sg | 58 47 | | |
| 19 | Epc: 3° S, 138° E, New Guinea. -H = 19 h. 15 m. 37 s (USCGS). | | | | | |
| | Port Blair | N. | e | 19 24 35 | | Slight. |
| | Shillong | Z | iP | 19 25 00 | 5860 | Slight, rarefaction. |
| | | | PP | 26 47 | | |
| | | | PPP | 27 54 | | |
| | | | iS | 32 27 | | |
| | | | PPS | 32 44 | | |
| | | | SesS | 34 41 | | |
| | | | SS | 36 05 | | |
| | Chatra | E | eP | 19 25 39 | 6290 | Slight. |
| | | | S | 33 31 | | |
| | Madras | E | eP | 19 25 43 | 6590 | Slight. |
| | | | e | 26 11 | | |
| | | | e | 28 40 | | |
| | | | iS | 33 56 | | |
| | Bokaro | NE | e | 19 25 50 | | Slight. |
| | | | N | 29 32 | | |
| | | | | 33 28 | | |
| | Calcutta | E | e | 19 26 14 | | Slight. |
| | | | i | 32 55 | | |
| | Poona | Z | eP | 19 26 34 | 7370 | Mild. |
| | | NE | eS | 35 23 | | |
| | | NE | e | 19 26 36 | | Slight. |
| | | | i | 35 17 | | |
| | Bombay | E | e | 19 27 02 | | Slight. |
| | | | NE | 35 54 | | |
| | | | E | 36 30 | | |
| | | | e | 39 58 | | |
| | Colombo | E | e | 19 33 50 | | |
| 19 | Shillong | Z | e | 20 21 53 | | Tremor. |
| 19 | Shillong | Z | Pg | 21 09 43 | 280 | Slight. |
| | | | Sg | 10 15 | | |

| DATE | STATION | compt. | phase | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|--|---------|--|--|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 19 | Chatra | E | e | 21 14 57 | | Feeble. |
| 20 | Shillong | Z | | 00 14 44 | | Tremor. |
| 20 | Chatra | Z | " | 07 52 04 | | Mild. |
| 20 | Shillong | Z | iP | 07 40 59 | | Slight, distant compression. |
| 20 | Agra | NE | P | 11 47 13 | | Ver. slight, felt at Delhi. |
| | Dehra Dun | NE | e i | 11 47 23 47 47 | | Feeble. |
| 20 | Shillong | Z | i | 12 25 07 | | Slight, near. |
| 20 | Epic: 40° N, 143° E. Off North East Coast of Honshu, Japan. -H = 13 h. 36 m. 54 s (USCGS) -h = about 60 km. | | | | | |
| | Shillong | ZK | iP iS | 13 45 05 51 42 | 4970 | Slight, rarefaction. |
| | Chatra | Z NE | P S | 13 45 31 52 28 | 5310 | Slight. |
| | Port Blair | N | e | 13 46 05 | | Slight. |
| | Agra | ZNE | iP | 13 46 09 | | Initial ground movement towards South West and compression. |
| | Dehra Dun | NE | eP iS | 13 46 16 53 43 | 5850 | Feeble. |
| 20 | Epic: 40° N, 143° E, Off North East Coast of Honshu, Japan. -H = 17 h. 07 m. 30 s (USCGS). Felt Northern Honshu and Southern Hokkaido 5 foot seismic sea wave at Miyako. h = about 60 km. Mag: 7 (Pas), 7-7½ (Berk). | | | | | |
| | Teeklai | E | eP i | 17 15 30 21 52 | 4690 | |
| | Shillong | ZNE | iP iS | 17 15 45 22 20 | 4930 | Compression. |
| | | | i | 17 16 11 | 5270 | |
| | | NE | S | 23 06 | | |
| | | N | Mn | 18 37 38 | | |
| | Calcutta | NE | iP PoP PP PPP iS ScS LR M Mn | 17 18 17 17 29 18 06 19 06 23 29 26 09 30 29 34 29 40 41 | 5580 | Initial ground motion West. |

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| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|------------|-------|--------|----------------------|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 20 | Bokaro | NE | iP | 17 16 27 | 5590 | Initial ground move- ment South West. |
| | | | PP | 18 21 | | |
| | | | PPP | 19 10 | | |
| | | NE | iP | 23 40 | | |
| | Port Blair | E | iP | 17 16 46 | 6000 | |
| | | | PcP | 17 50 | | |
| | | | PP | 18 52 | | |
| | | | PoS | 21 57 | | |
| | | | IS | 24 21 | | |
| | | | PS | 24 28 | | |
| | | | SoS | 26 20 | | |
| | | | LR | 32 05 | | |
| | | M | 35 15 | | | |
| | Dehra Dun | NE | eP | 17 16 52 | 5950 | |
| | | | PP | 19 00 | | |
| | | | PPP | 19 56 | | |
| | | | iS | 24 23 | | |
| | | | SS | 27 58 | | |
| | | | LQ,SSS | 30 01 | | |
| | | | LR | 32 11 | | |
| | | | M | 35 19 | | |
| | Agra | ZNE | iP | 17 16 59 | 6080 | Initial ground motion towards South West and Compression. |
| | | | iP | 17 21 | | |
| | | | PcP | 17 41 | | |
| | | | iP | 18 45 | | |
| | | | PP | 19 01 | | |
| | | | PPP | 20 23 | | |
| | | | iP | 20 59 | | |
| | | | iP | 24 22 | | |
| | | | iS | 24 38 | | |
| | | | PS | 24 52 | | |
| | | | iP | 25 36 | | |
| | | | iP | 25 49 | | |
| | | | SoS | 26 03 | | |
| | | | SS | 28 15 | | |
| | | | LQ,SSS | 30 26 | | |
| LR | 34 02 | | | | | |
| M | 38 57 | | | | | |
| | Sohore | NE | iP | 17 17 23 | 6410 | |
| | | | eS | 25 21 | | |
| | Hyderabad | NE | iP | 17 17 33 | 6660 | Initial ground move- ment towards West and South. |
| | | | PcP | 18 17 | | |
| | | | PP | 19 46 | | |
| | | | PPP | 21 21 | | |
| | | | iS | 25 45 | | |
| | | | PoS | 26 09 | | |
| | | | SoS | 27 21 | | |
| | | | SS | 30 00 | | |
| | | | SSS | 32 27 | | |
| | | | LR | 35 17 | | |
| | | | LR | 35 23 | | |
| | M | 40 17 | | | | |
| | E | M | 40 31 | | | |

Period = 18 secs. Gr.dis.
 = 36 μ ; Period = 15 secs.
 Gr.dis. = 221 μ

| DATE | STATION | COMP | PHASE | G. | M. | T. | △ | REMARKS |
|------|---------|------|-------|----|----|----|-----|---------|
| | | | | h. | m. | s. | km. | |

March, 1960.

| | | | | | | | | |
|----|------------------|--|-----|-------------|---------|----|------|---|
| 27 | Madras contd. | E | iP | 17 | 17 | 44 | 6750 | Initial ground motion West. |
| | | | i | | 17 | 51 | | |
| | | | PcP | | 18 | 29 | | |
| | | | PP | | 20 | 03 | | |
| | | | PPP | | 21 | 31 | | |
| | | | IS | | 26 | 01 | | |
| | | | PS | | 26 | 17 | | |
| | | | PFS | | 26 | 23 | | |
| | | | ScS | | 27 | 25 | | |
| | | | SS | | 29 | 56 | | |
| | | | Lq | | 32 | 49 | | |
| LR | | 35 | 49 | | | | | |
| M | | 40 | 58 | | | | | |
| | Poona | Z N | iP | 17 | 17 | 55 | 6840 | Initial ground movement towards South, East and compression. |
| | | | PcP | | 18 | 27 | | |
| | | | PP | | 19 | 59 | | |
| | | | PPP | | 21 | 44 | | |
| | | | IS | | 26 | 15 | | |
| | | | SS | | 30 | 13 | | |
| | | | SSS | | 32 | 52 | | |
| | | | LQ | | 33 | 30 | | |
| | | | LR | | 36 | 43 | | |
| | | | M | | 52/53 | | | |
| | Bombay | NE E NE E NE N E | eP | 17 | 17 | 59 | 7030 | Period = 17 secs. Gr. dis := 441 μ Period = 10 secs. Gr. dis = 192 μ |
| | | | PP | | 20 | 15 | | |
| | | | PPP | | 22 | 18 | | |
| | | | IS | | 26 | 31 | | |
| | | | PS | | 26 | 56 | | |
| | | | SS | | 30 | 57 | | |
| | | | SSS | | 33 | 58 | | |
| | | | M | | 47 | 13 | | |
| | | | M | | 47 | 38 | | |
| | | | | Vizianagram | NE N | i | | |
| e | | 18 | | | | 53 | | |
| i | | 25 | | | | 57 | | |
| e | | 26 | | | | 03 | | |
| e | | 26 | | | | 17 | | |
| e | | 27 | | | | 37 | | |
| e | | 29 | | | | 39 | | |
| | Kodaikanal | E | iP | 17 | 18 | 07 | 7110 | Initial ground movement West. |
| | | | PP | | 20 | 37 | | |
| | | | PPP | | 22 | 10 | | |
| | | | IS | | 26 | 43 | | |
| | | | SS | | 30 | 52 | | |
| | | | LQ | | 34 | 22 | | |
| | | | LR | | 37 | 22 | | |
| | | | M | | 42 | 40 | | |
| | Colombo | E | P | 17 | 18 | 12 | 7160 | Amp: = 21 m.m. |
| | | | S | | 26 | 51 | | |
| | | | I | | 40 | 39 | | |
| | | | M | | 49 | 00 | | |
| | | | M | | 49 | 00 | | |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|------|-------|----------------------|-----------------|--|
| <u>March, 1960.</u> | | | | | | |
| 20 | Shillong | Z | eP | 20 26 20 | | Slight, distant. |
| | Chatra | Z | P | 20 26 45 | | Mild. |
| 20 | Shillong | Z | iP | 21 44 52 | | Slight, distant, compression. |
| | Chatra | Z | P | 21 45 19 | | Feeble. |
| 20 | Chatra | Z | P | 22 31 19 | | Mild. |
| 20 | Chatra | Z | P | 22 39 33 | | Mild. |
| 20 | Chatra | Z | P | 23 08 29 | | Mild. |
| 21 | Shillong | Z | i | 00 15 00 | | Slight, near. |
| 21 | Shillong | Z | i | 00 19 27 | | Slight, near. |
| 21 | Epc: 39 $\frac{1}{2}$ N, 143 E, Near East Coast of Honshu, Japan, -H = 00 h. 34 m. 50 s. (U.S.C.G.S.) Mag: 6 $\frac{1}{2}$ (Pas). | | | | | |
| | Shillong | ZE | iP | 00 43 07 | | Initial ground movement West and compression. |
| | | E | PP | 45 01 | | |
| | | | PPP | 45 30 | | |
| | | | iS | 49 44 | | |
| | | | PPS | 50 01 | | |
| | | | SS | 53 00 | | |
| | | | LQ | 53 48 | | |
| | | | M | 01 00 02 | | |
| | Chatra | Z | iP | 00 43 31 | 5330 | Compression. |
| | | NE | S | 50 29 | | Period = 14 secs. Gr. dis: = 12 u |
| | | | M | 01 05/06 | | |
| | Calcutta | E | eP | 00 43 33 | | |
| | | | e | 50 41 | | |
| | Bokaro | NE | iP | 00 43 50 | 5590 | |
| | | E | eS | 51 03 | | |
| | Port Blair | E | iP | 00 44 07 | 5810 | |
| | | | iS | 51 32 | | |
| | Dehra Dun | NE | eP | 00 44 16 | 5860 | |
| | | | iS | 51 43 | | |
| | Agra | ZNE | iP | 00 44 21 | 6090 | |
| | | | iP | 44 29 | | |
| | | Z | PP | 46 29 | | |
| | | NE | iS | 52 01 | | |
| | | E | FS | 52 13 | | |
| | | ZNE | PPS | 52 19 | | |

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| DATE STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|--|-------|-------|----------------------|-----------------|--|
| <u>March, 1960</u> | | | | | |
| 21 Hyderabad contd. | NE | 1P | 00 45 00 | 6630 | Initial ground movement towards West and South. Period = 15 secs. Gr. dis. = 5 μ Period = 18 secs. Gr. dis. = 6 μ |
| | E | PP | 47 14 | | |
| | NE | 1S | 53 10 | | |
| | E | PS | 53 22 | | |
| | | SS | 57 04 | | |
| | | LQ | 01 02 22 | | |
| | N | LR | 02 25 | | |
| | NE | M | 07 55 | | |
| Madras | E | eP | 00 45 07 | 6830 | |
| | | PP | 47 22 | | |
| | | eS | 53 28 | | |
| | | PS | 53 43 | | |
| | | PPS | 53 51 | | |
| | | ScS | 54 52 | | |
| Poona | Z | 1P | 00 45 18 | 6940 | Compression. |
| | N | 1S | 53 45 | | |
| Bombay | NE | eP | 00 45 21 | 7050 | |
| | | PP | 47 42 | | |
| | | eS | 53 53 | | |
| | | PS | 54 17 | | |
| | N | M | 01 19 30 | | Period = 15 secs. Gr. dis. = 4 μ |
| Colombo | E | e | 00 54 20 | | |
| 21 Epc: 35° N, 97½° E, Burma, -H = 03 h. 45 m. 50 s. (U.S.C.G.S.) | | | | | |
| Tocklai | E | 1P | 03 46 51 | | Slight, distant. |
| Shillong | ZE | eP | 03 47 04 | 540 | Slight. |
| | E | P* | 47 16 | | |
| | | Fg | 47 27 | | |
| | | LQ | 47 51 | | |
| | | 1S | 48 02 | | |
| | | 1R | 48 04 | | |
| | | S* | 48 20 | | |
| | | Sg | 48 20 | | |
| Calcutta | E | eP | 03 47 53 | | Slight. |
| | | i | 50 41 | | |
| Chatra | Z | eP | 03 48 05 | 910 | Slight, rarefaction. |
| | ZNE | S | 49 39 | | |
| Bokaro | NE | e | 03 50 03 | | Slight. |
| | N | e | 51 24 | | |
| Dehra Dun | NE | e | 03 50 04 | | Feeble. |
| | | e | 53 00 | | |
| | | e | 54 50 | | |

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

March, 1960.

| | | | | | | |
|----|---|-----|----------------|-------------------|------|---|
| 21 | Poona contd. | Z | e? | 03 50 57 | | Feeble. |
| 21 | Shillong | Z | i i | 04 45 22 45 57 | | Slight. |
| 21 | Shillong | Z | eP | 04 51 46 | | Slight, distant. |
| 21 | Shillong | Z | eP | 06 02 54 | | Slight, near. |
| 21 | Epc: 40° N, 143½° E, Near East Coast of Honshu, Japan. -H = 06 h. 51 m. 29 s., (U.S.C.G.S) | | | | | |
| | Shillong | Z | iP | 06 59 50 | | Slight, distant, rarefaction. |
| | Chatra | Z | eP | 07 00 11 | 5250 | Feeble. |
| | | NE | S | 07 05 | | |
| 21 | Shillong | Z | eP | 09 21 09 | | Slight, distant. |
| 21 | Epc: 40° N, 143° E, Near East Coast of Honshu, Japan. -H = 09 h. 18 m. 22 s. (U.S.C.G.S.) | | | | | |
| | Shillong | ZE | iP | 09 26 38 | 4980 | Slight, initial ground movement towards West and compression. |
| | | E | PP | 28 15 | | |
| | | | PPP | 28 51 | | |
| | | | .iS | 33 16 | | |
| | | | PPS | 33 30 | | |
| | | | LQ | 37 02 | | |
| | | | M | 43 03 | | |
| | Chatra | Z | eP | 09 27 03 | 5310 | Compression. Period = 14 secs. Gr.dis. = 4 u |
| | | N | S | 33 59 | | |
| | | | M ₂ | 49/50 | | |
| | Bokaro | NE | eP | 09 27 25 | 5550 | Initial ground movement South and West. |
| | | N | eS | 34 36 | | |
| | Fort Blair | E | i | 09 27 38 | | Slight. |
| | Dehra Dun | NE | e | 09 27 46 | | Feeble. |
| | | | e | 34 48 | | |
| | Agra | ZNE | iP | 09 27 54 | | Initial ground motion towards South West and compression. |
| | Bombay | E | eP | 09 28 20 | | Slight. |
| | | N | e | 31 37 | | |
| | | NE | e | 37 27 | | |
| | | E | e | 45 41 | | |
| | Poona | Z | iP | 09 28 33 | 6690 | Mild., Rarefaction. |
| | | N | iS | 36 46 | | |
| | Madras | E | eP | 09 28 38 | | Feeble. |
| | | | e | 29 32 | | |

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| STATION | COMP | TRAC | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------------|---------|----------|----------------------|-----------------|---|
| <u>March, 1960.</u> | | | | | |
| 21 Kodaikanal contd. | E | e | 09 29 45 | | Tremor. |
| Calcutta | E | e | 09 32 30 | | Slight. |
| | | i | 34 28 | | |
| | | e | 38 47 | | |
| | | i | 43 54 | | |
| Hyderabad | E | e | 09 33 28 | | |
| 21 Shillong | Z | Pg Sg | 12 22 09 22 19 | 90 | Slight. |
| 21 Dehra Dun | NE | e | 12 31 11 33 29 | | Feeble. |
| Shillong | Z | eP | 12 31 23 | | Slight, distant. |
| 21 Shillong | Z | Pg Sg | 13 07 47 07 55 | 70 | Slight. |
| 21 Shillong | Z | iP | 16 48 42 | | Slight, distant, compression. |
| 21 Poona | Z | iP | 20 08 40 | | Feeble, compression. |
| Shillong | Z | eP | 20 09 02 | | Slight, distant. |
| 21 Shillong | Z | iP | 20 09 51 | | Slight, distant, rarefaction. |
| 21 Shillong | Z | Pg Sg | 20 36 16 36 27 | 90 | Slight. |
| 21 Shillong | Z | eP | 23 05 15 | | Slight. |
| 21 Shillong | Z | e | 23 30 00 | | Tremor. |
| 22 Shillong | Z | e | 01 00 09 | | Tremor. |
| 22 Kodaikanal. | E | e | 02 48 51 | | Tremor. |
| 22 Dehra Dun | NE | e | 02 52 54 56 47 | | Feeble. |
| Colombo | E | e | 02 55 01 | | |
| Port Blair | E | e | 02 55 03 | | Slight. |
| Bombay | NE N | e M | 05 04 12 26 13 | | Slight. Period = 17 secs. Gr. dis = 2 u |
| Hyderabad | N | M | 05 18 25 | | Period = 18 secs. Gr. dis = 7 u |
| 22 Chatra | Z | eP | 04 19 39 | | Mild near. |
| 22 Dehra Dun | NE | e | 08 35 09 | | |
| 22 Dehra Dun | NE | e | 09 14 53 | | Feeble. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|------|--|--------------------|--|--|-----------------|---|
| | | | | March, 1960 | | |
| | Chatra | | eP | 09 15 08 | | Feeble, distant. |
| 22 | Shillong | Z | iP | 09 15 29 | | Slight, distant compression. |
| 22 | Bokaro | NE | i | 09 19 46 | | Slight. |
| 22 | Shillong | Z | iP | 10 24 47 | | Slight, distant compression. |
| 22 | Shillong | Z | e iP | 10 31 01 31 12 | | Slight, rarefaction. |
| 22 | Port Blair | N | eP | 15 02 57 | | Slight. |
| | Shillong | Z | e i | 15 05 30 07 50 | | Slight, near. |
| 22 | Shillong | Z | iP | 20 14 49 | | Slight, distant rarefaction. |
| 22 | Shillong | Z | i | 20 24 28 | | Tremor, near. |
| 22 | Shillong | Z | i | 21 19 27 | | Slight, near. |
| | Chatra | Z | iP | 21 19 56 | | Feeble, distant rarefaction. |
| 22 | Chatra | Z | P | 21 22 09 | | Feeble, distant. |
| 23 | Epc :- 39 $^{\circ}$ N, 143 $^{\circ}$ E, Near East Coast of Honshue, Japan. -H = 00h 23m 22s (USCGS). Mag: 6 $\frac{1}{2}$ -7 (Berk), 6 $\frac{1}{2}$ -6 $\frac{1}{2}$ (Pas). | | | | | |
| | Tocklai | E | eP | 00 31 21 | | Distant. |
| | Shillong | Z N | iP PP SP Pc IS PS PPS SS LQ LR M | 00 31 34 33 19 34 16 37 12 38 20 38 41 38 53 42 15 42 49 45 15 48 44 | 5120 | Moderate, compression Period = 16 secs. Gr. dis = 90 /u. |
| | Chatra | Z E | eP S M | 00 32 03 39 07 53 54 | 5440 | Period = 15 secs. Gr. dis = 71 /u. |
| | Bokaro | NE E NE E | iP PP IS IQ IR M | 00 32 26 34 26 39 49 44 55 47 08 51 26 | 5780 | Initial ground movement South West. Period = 19 secs. Gr. dis = 50 /u. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ Km. | REMARKS. |
|--------------------|------------|---|--|--|----------|---|
| <u>March, 1960</u> | | | | | | |
| 23 | Port Blair | E | eP PeP iS ScS M | 00 32 40 33 00 40 15 42 14 51 09 | 5810 | |
| | Dehra Dun | NE N | eP PP PPP iS SS SSS LR M | 00 32 43 34 59 35 57 40 23 44 09 45 16 48 40 52 32 | 6090 | |
| | Agra | NE N NE E NE N E NE N E N NE | iP i PeP PP PPP i i PcS, SoP i i iS PPS i ScS SS SSS, LQ LR M | 00 33 00 33 18 34 02 35 03 36 33 36 42 37 00 38 38 29 38 59 40 42 41 03 41 23 42 43 44 23 46 27 49 55 - - | 6120 | Initial ground motion towards South and West. Period = 27.5 secs. Amp : = 36 mm. Distant. |
| | Sehore | NE | e e | 00 33 08 33 36 | | |
| | Hyderabad | N E N | eP PeP PP PcS iS PS PPS ScS SS LR M M | 00 33 31 34 20 35 47 38 11 41 40 41 51 42 23 43 19 45 41 51 47 56 44 57 47 | 6610 | Pr. = 15 sec. Gr. dis = 14/u Pr. = 12 sec. Gr. dis = 14/u |
| | Madras | E | eP PeP PP PPP iS PS PPS ScS SS LQ LR | 00 33 41 34 21 36 00 37 34 42 11 42 30 42 39 43 21 46 22 49 26 52 35 | 7000 | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|------------------------------|--|--|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| | Poona | Z N | iP PcP pp PPP iS FS PPS SS SSS LQ LR Mn | 00 33 49 34 17 36 06 37 45 42 29 42 52 43 08 46 34 49 33 50 35 53 37 01 03/05 | 7190 | Initial ground movement towards South, West and compression. Period = 13 secs. Gr. dis : = 21 / μ |
| | Bombay | NE N NE N E N | eP i PcS iS FS PPS ScS M M | 00 33 52 34 03 38 17 42 33 42 52 43 07 43 33 01 04 46 04 07 | 7200 | Period = 15 secs. Gr. dis : = 7 / μ Period = 13 secs. Gr. dis : = 23 / μ |
| | Kodaikanal | E | eP PPP iS SS LQ M | 00 34 22 38 24 43 09 47 30 51 00 59 51 | 7520 | Period = 15 secs. Gr. dis : = 10 / μ |
| 23 | Epc: 39 $\frac{1}{2}$ $^{\circ}$ N, 143 $^{\circ}$ E, Near East Coast of Honshu, Japan. - H = 01 h. 07 m. 15 s. (USCGS). | | | | | |
| | Tocklai | E | eP | 01 15 10 | | Distant, slight. |
| | Shillong | Z | iP | 01 15 38 | | Slight, compression. |
| | Chatra | Z E | eP S M | 01 15 37 23 12 37/38 | 5630 | Moderate, compression. Period = 15 secs. Gr. dis : = 33 / μ |
| | Poona | Z | iP | 01 17 53 | | Feeble, compression. |
| 23 | Shillong | Z | eP | 01 59 52 | | Slight, distant. |
| 23 | Shillong | Z | iP | 02 17 20 | | Slight distant compression. |
| | Chatra | Z | iP | 02 17 50 | | Feeble, compression. |
| 23 | Shillong | Z | iP | 04 30 54 | | Slight, near. |
| 23 | Shillong | Z | eP | 06 09 50 | | Tremor. |
| 23 | Shillong | Z | iP | 06 48 50 | | Slight, distant compression. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|---------|---|---|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 25 | Shillong | Z | IP | 07 58 5 | | Slight, distant rarefaction. |
| 25 | Epc: 40° N, $142\frac{1}{2}^{\circ}$ E, Near East Coast of Honshu, Japan. - H = 08 h. 46 m. 44 s. (USCGS). | | | | | |
| | Shillong | ZE E | IP PP IS PPS M | 08 54 55 56 59 57 51 09 01 44 01 59 12 19 | 5170 | Slight, initial ground movement towards West and compression. |
| | Chatra | Z E | IP S | 08 55 23 09 02 20 | 5310 | Compression. |
| | Behra Dun | NE | e e | 08 56 20 09 03 51 | | Feeble. |
| | Poona | Z | IP | 08 57 09 | | Feeble, compression. |
| | Bombay | NE | e | 09 06 05 | | Slight. |
| 25 | Epc: $39\frac{1}{2}^{\circ}$ N, 145° E, Near East Coast of Honshu, Japan. - H = 10 h. 29 m. 01 s (USCGS) h = about 100 km. | | | | | |
| | Shillong | ZE E | eP e PP IS PPS IQ IR M | 10 37 05 38 29 39 28 43 44 43 58 47 36 49 58 54 54 | 5200 | Slight. |
| | Chatra | Z E | IP S | 10 37 34 44 31 | 5520 | Feeble, compression. |
| | Port Blair | N | e | 10 38 08 | | Slight. |
| | Poona | Z | e | 10 38 18 | | Feeble. |
| | Behra Dun | NE | e e | 10 38 33 45 48 | | Feeble. |
| | Bombay | NE N | e M | 10 48 01 11 10 - | | Slight. |
| 25 | Shillong | Z | | 10 59 06 | | Slight, near compression. |
| 25 | Epc: $39\frac{1}{2}^{\circ}$ N, 145° E, Near East Coast of Honshu, Japan. - H = 11 h. 51 m. 00 s (USCGS). | | | | | |
| | Shillong | Z | e | 11 59 12 12 05 52 | 5010 | Slight. |
| | Chatra | Z | eP | 11 59 42 | | Feeble. |
| | Port Blair | N | e | 12 00 17 | | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|---|---------|---|---|-----------------|--|
| <u>March, 1960.</u> | | | | | | |
| 23 | Poona | Z | iP | 12 01 27 | | Feeblecompression. |
| | Dehra Dun | | e | 12 02 23 07 56 | | Feeble. |
| | Bombay | NE | e | 12 10 09 | | Slight. |
| 23 | Shillong | Z | eP | 13 08 57 | | Slight,distant. |
| | Dehra Dun | NE | e | 13 13 10 | | Tremor. |
| 23 | Shillong | Z | eP | 16 09 20 | | Slight,distant. |
| 23 | Dehra Dun | NE | e | 16 29 30 | | Feeble. |
| 23 | Shillong | Z | e | 19 48 45 | | Slight,near. |
| | | | i | 49 20 | | |
| | | | i | 49 40 | | |
| 23 | Epc: $32\frac{1}{2}^{\circ}$ N, $103\frac{1}{2}^{\circ}$ E, Szechwan Province, China . - H = 20 h . 03 m. 47 s (USCGS). | | | | | |
| | Shillong | Z | iP i | 20 06 41 10 35 | | Slight,distant, compression. |
| | Chatra | Z | eP | 20 07 23 | | Slight. |
| | Dehra Dun | NE | e e | 20 12 42 16 42 | | Feeble. |
| 23 | Shillong | Z | eP | 21 42 36 | | Slight,rarefaction. |
| | Chatra | Z | iP | 21 43 00 | | Mild,distant, compression. |
| | Poona | Z | eP | 21 44 48 | | Feeble. |
| 23 | Epc: $39\frac{1}{2}^{\circ}$ N, 143° E, Near East Coast of Honshu, Japan. - H = 22 h. 22 m. 36 s(USCGS). Mag : 6 (Pas). | | | | | |
| | Shillong | ZE E | eP PP PPP iS PPS SS iQ M | 22 30 53 32 28 33 04 37 31 37 45 40 41 41 24 47 25 | 4980 | Initial ground move- ment West. Period = 14 secs. Gr.dis : = 35 μ |
| | Calcutta | E | e e | 22 31 07 38 37 | | |
| | Chatra | Z N | eP S | 22 31 16 08 13 | 5310 | Compression |
| | Bokaro | NE E | iP iS Mn | 22 31 39 38 50 35 28 | 5550 | Initial ground motion South West. Period = 19 secs. Gr. dis: = 11 μ |

| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | △ kms. | REMARKS |
|---------------------|------------|-----------------------------------|---|----------|--|--|-----------|---|
| <u>March, 1960.</u> | | | | | | | | |
| | Port Blair | N | eP eS | 22 | 31 39 | 55 18 | 5780 | |
| | Dehra Dun | NE N | eP PP iS SS SSS LR M | 22 | 32 34 39 43 44 47 51 | 03 00 31 24 54 25 09 | 5870 | |
| | Agra | ZNE ZE ZNE NE ZNE | iP i PP iS PS SS M | 22 | 32 32 34 39 40 43 - | 08 26 11 50 06 43 - | 6120 | Initial ground motion West and compression Period = 17 secs. Amp: = 20 mm. |
| | Hyderabad | NE N NE N E N E | iP PP iS PS PPS SS LQ LR LR M M | 22 | 32 34 40 41 41 45 48 51 51 56 57 | 45 59 56 19 42 14 02 50 57 56 26 | 6640 | Period = 15 secs. Gr. dis: = 6/u. Period = 17 secs. Gr. dis: 7/u. |
| | Madras | E | eP PcP PP eS PS PPS ScS | 22 | 32 33 35 41 41 41 42 | 54 39 09 08 22 30 43 | 6700 | |
| | Poona | Z N | iP S | 22 | 33 41 | 04 33 | 6980 | Moderate, initial ground movement towards South, West and Compression |
| | Bombay | NE E NE E N | eP PP PcS eS PS PPS SS M | 22 | 33 35 37 41 42 42 46 23 | 08 30 25 39 01 17 07 52 | 7010 | Period = 15 secs. Gr. dis: = 6/u. |
| | Colombo | E | P S L M | 22 | 33 42 23 10 | 22 22 42 32 | 7560 | AMP: 0.4 mm. |

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| DATE | STATION | COMP. | PHASE | G. h. | M. m. | T. s. | △ kms. | REMARKS |
|---------------------|------------|-------|------------------------------------|----------|----------|----------|-----------|------------------------------|
| <u>March, 1960.</u> | | | | | | | | |
| 23 | Kodaikanal | E | e? | 22 | 41 | 19 | | Tremor. |
| 23 | Chatra | Z | iP | 23 | 19 | 23 | | Feeble compression. |
| | Shillong | Z | iP | 23 | 19 | 48 | | Slight. |
| 23 | Shillong | Z | iP | 23 | 21 | 22 | | Slight, distant compression. |
| | Chatra | Z | iP | 23 | 21 | 56 | | Feeble, compression. |
| 23 | Shillong | Z | e | 23 | 34 | 37 | | Tremor, near. |
| 24 | Shillong | Z | iP | 03 | 08 | 30 | | Slight, distant rarefaction. |
| 24 | Shillong | Z | Pg Sg | 05 | 38 | 14 38 | 50 | Slight. |
| 24 | Shillong | Z | iP | 06 | 03 | 37 | | Slight, distant rarefaction. |
| | Port Blair | N | e | 06 | 04 | 45 | | Slight. |
| | Poona | Z | iP | 06 | 05 | 35 | | Feeble, rarefaction. |
| 24 | Shillong | Z | e iP | 06 | 55 | 02 55 | | Slight, distant rarefaction. |
| 24 | Port Blair | N | iPg iSg | 08 | 24 | 38 24 | 60 | Slight. |
| 24 | Shillong | Z | e Sg | 09 | 32 | 09 32 | | Slight, near. |
| 24 | Shillong | Z | iP ₁ iP ₂ | 10 | 07 | 00 07 | | Slight, rarefaction. |
| | Chatra | Z | iP | 10 | 07 | 27 | | Feeble, compression. |
| | Poona | Z | eP | 10 | 09 | 03 | | Feeble. |
| 24 | Dehra Dun | NE | e | 10 | 29 | 57 | | Feeble. |
| 24 | Shillong | Z | e | 12 | 29 | 50 | | Tremor. |
| 24 | Shillong | Z | Pg Sg | 12 | 54 | 12 54 | 70 | Slight. |
| 24 | Shillong | Z | P Sg | 20 | 06 | 53 07 | 250 | Slight. |
| 24 | Shillong | Z | eP | 20 | 10 | 56 | | Slight, near. |
| | Chatra | Z | iP | 20 | 11 | 23 | | Feeble, compression. |
| 24 | Shillong | Z | e | 21 | 04 | 57 | | Slight. |
| 25 | Shillong | Z | iP | 02 | 41 | 54 | | Slight, distant rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|--------------|--|---|-----------------|-------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 25 | Shillong | Z | Pg Sg | 05 40 13 40 14 | | Slight. |
| 25 | Shillong | Z | iP | 06 38 24 | | Slight, distant, rarefaction. |
| 25 | Dehra Dun | NE | e | 09 45 11 | | Tremor. |
| | Bombay | E NE E | e e e | 09 51 19 51 58 55 58 | | Slight. |
| | Poona | Z | eP | 09 51 28 | | Feeble. |
| | Chatra | Z | iP | 09 53 25 | | Feeble, compression. |
| | Shillong | Z | iP | 09 53 55 | | Slight, distant, rarefaction. |
| 25 | Dehra Dun | NE | e | 10 00 22 | | Feeble. |
| 25 | Shillong | Z | eP | 11 24 31 | | Slight, distant. |
| 25 | Shillong | Z | e Sg | 13 25 32 26 10 | | Slight, near. |
| 25 | Shillong | Z | e | 17 28 16 | | Tremor. |
| 25 | Shillong | Z | e | 17 47 53 | | Tremor. |
| 25 | Shillong | Z | Pg Sg | 19 47 27 47 30 | 20 | Slight. |
| 26 | Shillong | Z | iP | 09 03 50 | | Slight, distant, compression. |
| 26 | Shillong | Z | e i i | 12 38 54 39 02 39 12 | | Slight, near. |
| 26 | Chatra | Z | Pg Sg | 19 53 45 54 05 | 170 | Mild. |
| 26 | Dehra Dun | NE | e i | 22 48 27 48 41 | | Feeble. |
| 27 | Shillong | Z | Pg Sg | 01 10 05 10 14 | 80 | Slight. |
| 27 | Epc: 13 $\frac{1}{2}$ ° S, 166° E, New Hebrides Islands. -H = 03 h. 48 m. 27 s. (U.S.C.G.S). Mag : 6 $\frac{1}{4}$ (Berk). | | | | | |
| | Shillong | Z E | eP PcP PP PPP IS ScS PS PPS | 04 00 48 01 03 03 51 05 49 11 03 11 20 11 45 12 05 | 9130 | |

 DATE STATION COMET PHASE G. M. T. Δ R E M A R K S
 h, m, s. km.

March, 1960.

| | | | | | | |
|----|--------------------|--------------|--|---|-------|--|
| 27 | Calcutta contd. | E | eP iS i | 04 01 02 11 28 11 47 | 9360 | |
| | Chatra | Z NE | eP S | 04 01 12 11 37 | 9350 | |
| | Bokaro | N E NE | eP iP iS | 04 01 17 01 17 11 51 | 9550 | |
| | Colombo | E | P e e | 04 01 20 11 50 12 20 | | |
| | Madras | E | eP PP PPP SKS eS SoS PS PPS | 04 01 27 04 57 08 57 12 00 12 11 12 17 13 18 13 47 | 9800 | |
| | Hyderabad | E | e iS LR M | 04 01 41 12 11 30 15 37 46 | | |
| | Agra | ZNE NE | eP i | 04 01 51 12 22 | | |
| | Poona | Z E | eP i | 04 01 59 12 33 | | |
| | Kodaikanal | E | e | 04 02 05 | | |
| | Bombay | E NE E | eP SKS ₁ eS M | 04 02 08 12 42 13 28 54 -- | 10780 | |
| | Dehra Dun | NE | e iS | 04 02 35 12 28 | | |

Period = 15 secs.
 Gr.dis: = 3 μ

27 Shillong Z e 04 19 20 Tremor.

27 Epc: $13\frac{1}{2}$ S, $166\frac{1}{2}$ E, New Hebrides Islands,
 -H = 08 h. 57 m. 53 s. (U.S.C.G.S.).
 Mag: $6\frac{1}{2}$ (Berkeley).

Port Blair E e 09 10 01
 e 19 43

Shillong Z iP 09 10 17 9150 Compression.
 E PP 10 23
 PP 13 20

 DATE STATION COMPT PHASE G. M. T. Δ R E M A R K S
 h. m. s. km.

March, 1960.

| | | | | | | |
|--------|------------|---------------------------|--|--|-------|---|
| 27 | Shillong | E | PPP | 09 15 28 | | |
| contd. | | | IS | 20 33 | | |
| | | | ScS | 20 56 | | |
| | | | PS | 21 25 | | |
| | | | PPS | 21 48 | | |
| | | | SS | 25 52 | | |
| | | | LQ | 32 39 | | |
| | Calcutta | E | | 09 10 32 | 9350 | |
| | | | IS | 20 57 | | |
| | | | i | 21 29 | | |
| | Chatra | Z NE | 1P S | 09 10 40 21 05 | 9350 | Rarefaction |
| | Bokaro | N | eP IS | 09 10 44 21 14 | 9470 | |
| | Madras | E | eP PP PPP SKKS eS ScS PS PPS SS SSS | 09 10 56 14 23 16 19 21 29 21 34 21 41 22 34 23 00 27 22 30 53 | 9660 | |
| | Hyderabad | E | eP PP e IS PS PPS SS LR LR M M | 09 11 05 14 05 16 49 21 41 22 11 23 22 27 38 39 32 39 36 46 29 46 32 | 9590 | Period=28 secs. Gr.dis.= 13 μ Period = 16 secs. Gr.dis.= 5 μ |
| | Agra | ZNE ZE EZ | P i i | 09 11 13 15 00 21 53 | | |
| | Kodaikanal | E | e | 09 11 13 | | Tremor. |
| | Poona | Z E | 1P i | 09 11 25 22 07 | | Initial ground movement towards East and Rarefaction. |
| | Bombay | E NE E N | eP PP PPP SKS ₁ eS LQ M | 09 11 37 15 26 17 06 22 11 22 55 33 33 10 06 12 | 10720 | Pr.= 19 sec. Gr.Dis.= 5 μ |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|--------------------|---|--------|-------|----------------------|-----------------|-------------------------------|
| <u>March, 1960</u> | | | | | | |
| | Dehra Dun | NE | e | 09 15 09 | | |
| | | N | e | 16 54 | | |
| | | | e | 17 49 | | |
| | | | i | 22 00 | | |
| | | | e | 24 49 | | |
| | | | e | 25 46 | | |
| | | | M | 31 39 | | |
| 27 | Shillong | Z | iP | 19 47 46 | | Slight, distant, compression. |
| 27 | Shillong | Z | e | 20 39 01 | | Slight, near. |
| | | | i | 39 13 | | |
| 27 | Shillong | Z | iP | 23 41 49 | | Slight, distant, rarefaction. |
| | Bombay | E | e | 23 53 39 | | Slight. |
| 27 | Shillong | Z | iP | 23 58 29 | | Slight, distant, compression. |
| 28 | Bombay | E | e | 00 33 14 | | Slight. |
| | | NE | e | 36 36 | | |
| | | E | e | 43 45 | | |
| | | E | e | 43 53 | | |
| | Poona | Z | iP | 00 33 17 | | Slight, compression. |
| | Shillong | Z | iP | 00 33 21 | | Slight, compression. |
| | Dehra Dun | NE | e | 00 35 57 | | Feeble. |
| | | | e | 36 40 | | |
| | Kodaikanal | E | e | 00 37 42 | | Feeble, tremor. |
| 28 | Shillong | Z | iP | 05 09 00 | | Slight, distant, compression. |
| 28 | Epc :- 13 ^h 03, 165 ^o E, New Hebrides Islands. -H = 06h 36m 27s (USCGS). h = About 300 Kms. | | | | | |
| | Shillong | Z | iP | 06 48 21 | 9750 | Slight. |
| | | | PcP | 48 34 | | |
| | | | e | 51 47 | | |
| | | | e | 53 43 | | |
| | | | eS | 58 33 | | |
| | | | i | 58 41 | | |
| | | | e | 58 53 | | |
| | | | e | 59 35 | | |
| | | | e | 07 00 20 | | |
| | Madras | E | e | 06 49 14 | | Slight. |
| | | | e | 59 32 | | |
| | Dehra Dun | NE | e | 06 53 19 | | Slight. |
| | | | iS | 07 00 01 | | |
| | Bombay | E | e | 06 55 32 | | Slight. |
| | | | e | 07 00 14 | | |
| | | NE | e | 00 58 | | |

| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ kms. | REMARKS |
|---------------------|---|--------|-------|----|----|----|------------------|---|
| | | | | h. | m. | s. | | |
| <u>March, 1960.</u> | | | | | | | | |
| 28 | Shillong | Z | 1P | 08 | 08 | 21 | | Slight, compression. |
| 28 | Shillong | Z | 1P | 09 | 55 | 48 | | Slight, compression. |
| 28 | Shillong | Z | i | 16 | 56 | 48 | | Slight, near. |
| 28 | Shillong | Z | i | 17 | 32 | 42 | | Slight, near. |
| | | | i | | 33 | 46 | | |
| 29 | Shillong | Z | Pg | 01 | 20 | 45 | 140 | Slight. |
| | | | Sg | | 21 | 02 | | |
| 29 | Shillong | Z | Pg | 04 | 32 | 59 | 100 | Slight. |
| | | | Sg | | 33 | 10 | | |
| 29 | Epic: 17° S, 167° E, New Hebrides Islands. - H = 06 h. 30 m. 54 s. (U.S.C.G.S.). Mag: 6½(Pas), 6¼-6½(Berk). | | | | | | | |
| | Port Blair | E | 1P | 06 | 43 | 05 | 8800 | |
| | | | 1S | | 53 | 05 | | |
| | Shillong | ZE | 1P | 06 | 43 | 33 | 9470 | Initial ground movement East and Rarefaction. |
| | | E | P&P | | 43 | 40 | | |
| | | | PP | | 46 | 56 | | |
| | | | PPP | | 48 | 43 | | |
| | | | SKS | | 53 | 49 | | |
| | | | 1S | | 54 | 03 | | |
| | | | ScS | | 54 | 19 | | |
| | | | PS | | 54 | 46 | | |
| | | | PPS | | 55 | 20 | | |
| | | | SS | | 59 | 23 | | |
| | | | SSS | 07 | 03 | 14 | | |
| | | | LQ | | 06 | 37 | | |
| | Calcutta | E | eP | 06 | 43 | 46 | 9470 | |
| | | | 1S | | 54 | 16 | | |
| | Bokaro | N | eP | 01 | 44 | 02 | 9840 | |
| | | | 1S | | 54 | 47 | | |
| | Madras | E | eP | 06 | 44 | 03 | 10160 | |
| | | | e | | 44 | 12 | | |
| | | | pp | | 46 | 49 | | |
| | | | ppp | | 49 | 44 | | |
| | | | SKKS | | 53 | 47 | | |
| | | | eS | | 53 | 01 | | |
| | | | ScS | | 55 | 06 | | |
| | | | e | | 55 | 22 | | |
| | | | PS | | 56 | 13 | | |
| | | | PPS | | 56 | 47 | | |
| | | | SS | 07 | 01 | 11 | | |
| | | | LQ | | 08 | 34 | | |
| | Kodaikanal | E | e | 06 | 44 | 26 | | Initial ground movement East.distant. |
| | | | 1S | | 55 | 02 | | |
| | | | LR | | 12 | 26 | | |
| | | | M | | 19 | 29 | | |
| | | | | | | | | Period = 15 secs. |
| | | | | | | | | Gr. dis: = 14/u. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|-----------|--------|------------------|----------------------|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 29 | Hyderabad | E | e | 06 44 36 | | |
| | | | e | 47 55 | | |
| | | | e | 49 27 | | |
| | | | iS | 54 53 | | |
| | | | e | 56 07 | | |
| | | | e | 59 58 | | |
| | Agra | ZE | eP, PoP | 06 44 38 | 10720 | Compression. |
| | | | PP | 48 32 | | |
| | | E | PPP | 50 34 | | |
| | | NE | SKS | 55 12 | | |
| | | | iS, ScS | 55 56 | | |
| | | ZE | PS | 57 09 | | |
| | | ZNE | PPS | 58 05 | | |
| | | ZE | SS | 07 02 35 | | |
| | | ZNE | SSS | 07 06 27 | | |
| | | N | i | 08 31 | | |
| | | E | i | 10 13 | | |
| | Poona | Z | iP | 06 44 3 | | Initial ground move- ment East and rare- faction. |
| | | E | i | 55 21 | | |
| | Bombay | E | eP | 06 44 51 | 10790 | |
| | | | PP | 48 37 | | |
| | | | PPP | 50 37 | | |
| | | NE | SKS ₁ | 55 22 | | |
| | | | eS | 56 12 | | |
| | | E | M | 07 30 56 | | Period = 15 secs. |
| | | N | M | 31 18 | | Gr.dis : = 4 μ |
| | | | | | | Period = 16 secs. |
| | | | | | | Gr.dis : = 9 μ |
| | Dehra Dun | NE | e | 06 45 28 | 10890 | |
| | | N | PP | 48 41 | | |
| | | | SKS | 55 24 | | |
| | | | e | 07 00 38 | | |
| | | | e | 03 29 | | |
| | | | e | 16 36 | | |
| 29 | Shillong | Z | iP | 07 36 09 | | Slight, distant, rarefaction. |
| 29 | Dehra Dun | NE | e | 13 09 47 | | Tremor. |
| 29 | Shillong | Z | iP | 14 19 49 | | Slight, distant compression. |
| 29 | Shillong | Z | iP | 16 06 13 | | Slight, distant rarefaction. |
| 29 | Tocklai | E | iP | 16 56 58 | | Local, Slight felt at Jorhat. |
| | Shillong | Z | iP | 16 57 29 | | Slight, near compression. |
| 29 | Shillong | Z | P | 20 21 11 | 270 | Slight. |
| | | | P* | 21 13 | | |
| | | | Pg | 21 19 | | |
| | | | S | 21 41 | | |
| | | | S* | 21 45 | | |
| | | | Sg | 21 48 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|--|---------|-------------------------------------|--|-----------------|---|
| <u>March, 1960.</u> | | | | | | |
| 29 | Epc: 6° S, 147° E, East Coast of New Guinea. - H = 22 h. 10 m. 20 s. (USCGS). | | | | | |
| | Shillong | Z | eP | 22 20 49 | | Slight, distant. |
| | Agra | Z | eP | 22 22 07 | | Slight, distant compression. |
| | Bombay | E NE | eP eS | 22 22 23 32 25 | 8840 | Slight. |
| 29 | Shillong | Z | eP | 22 49 38 | | Slight, distant. |
| | Shillong | Z | iP | 07 09 54 | | Slight, distant compression. |
| 30 | Shillong | Z | iP | 09 50 47 | | Slight, distant compression. |
| 30 | Shillong | Z | iP | 09 53 18 | | Slight, distant compression. |
| 30 | Calcutta | E | e i | 10 02 28 12 45 | | Slight. |
| 30 | Shillong | Z | e | 10 05 23 | | Tremor. |
| 30 | Epc: 13½° S, 166° E, New Hebrides Islands. - H = 10 h. 49 m. 47 s (USCGS). Mag: 6 (Berk). | | | | | |
| | Shillong | Z E | iP PP eP i S e PS | 11 02 11 05 34 07 19 12 12 12 37 13 15 13 36 | 9380 | Initial ground move- ment towards East and rarefaction. |
| | Madras | E | e e | 11 02 50 13 21 | | |
| | Agra | ZN Z | eP i | 11 03 12 06 59 | | Distant, initial ground movement South and compression |
| | Bombay | E | e e e N M | 11 03 25 14 02 14 45 56 - | | |
| | Colombo | E | P e | 11 13 08 42 05 | | |
| | Kodaikanal | E | e | 11 13 40 | | Tremor. |
| 30 | Shillong | Z | i | 14 17 58 | | Slight, near. |
| 30 | Shillong | Z | eP | 15 32 42 | | Slight, distant. |
| 30 | Bombay | E | e | 15 47 42 | | Slight. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|---------------------|------------|-------|-------------|----------------------------|----------|-------------------------------|
| <u>March, 1960.</u> | | | | | | |
| 30 | Shillong | Z | e | 17 45 58 | | Tremor, near. |
| 30 | Shillong | Z | e i i | 22 03 43 04 02 04 08 | | Slight, near. |
| 31 | Shillong | Z | i | 00 48 33 | | Slight, near. |
| | Chatra | Z | eP | 00 49 06 | | Feeble. |
| 31 | Shillong | Z | iP | 03 10 22 | | Slight, distant. |
| | Chatra | Z | iP | 03 10 47 | | Feeble, distant, compression. |
| 31 | Shillong | Z | iP | 03 39 46 | | Tremor. |
| 31 | Dehra Dun | NE | e | 03 44 34 | | Tremor. |
| 31 | Shillong | Z | Pg | 04 28 33 | | Slight, near. |
| 31 | Shillong | Z | iP | 07 55 49 | | Slight, distant, rarefaction. |
| 31 | Chatra | Z | eP | 14 26 36 | | Feeble, distant. |
| 31 | Shillong | Z | eP | 15 36 46 | | Slight, near. |
| 31 | Shillong | Z | iP | 15 56 33 | | Slight, distant, compression. |
| 31 | Shillong | Z | iP | 17 37 57 | | Slight, distant, rarefaction. |
| 31 | Shillong | Z | iP | 18 26 39 | | Slight, near. |
| 31 | Shillong | Z | eP | 18 29 15 | | Slight, distant. |
| 31 | Port Blair | E | iPg | 18 49 12 | | Slight. |
| | Shillong | Z | eP | 18 52 05 | | Slight, distant. |
| 31 | Shillong | Z | iP | 20 15 16 | | Slight, distant, rarefaction. |
| 31 | Shillong | Z | iP | 21 40 52 | | Slight, distant, rarefaction. |
| | Chatra | Z | eP | 21 41 17 | | Feeble, distant. |

-4-

Earthquake Reports
(Non Instrumental reports)

The following is the list of earthquakes that are reported by voluntary observers from different stations during the month of March, 1960.

| Place | Date | Time in G. M. T. | No. of shock. | Duration of shock. | Intensity in R.F. Scale | Remarks |
|-------------------------------|---------|---------------------|------------------------------|-----------------------|----------------------------|---------|
| Mikteswar Kumaon. | 5.3.60 | 11 26 | One | 2 secs. | V | |
| Mikteswar Kumaon. | 5.3.60 | 25 53 | One | 3 secs. | V | |
| Srinagar | 16.3.60 | 02 56 | Three separate shocks. | 15 secs. | III | |
| Rowriah air- field. Jhrat. | 29.3.60 | 16 58 | One | 2 secs. | IV. | |

MICROSEISMIC TABULATION

Station : Shillong.

Component : E-W.

Month : March, 1960

| DATE | HOUR | K | Mean sim- ple ampli- tude in mm. | Mean period in sec. | DATE | HOUR | K | Mean sim- ple ampli- tude in mm. | Mean period in sec. |
|------|------|-----|--|---------------------------|------|------|-----|--|---------------------------|
| | GMT. | | | | | GMT. | | | |
| 01 | 00 | ... | - | - | 12 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.3 | 4.6 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.2 | 4.0 | | 12 | 3 | 0.2 | 3.8 |
| | 18 | 3 | 0.2 | 3.8 | | 18 | 0,0 | - | - |
| 02 | 00 | 3 | 0.2 | 3.8 | 13 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.3 | 4.8 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 5.2 | | 12 | 3 | 0.2 | 3.7 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.2 | 3.8 |
| 03 | 00 | 3 | 0.4 | 5.1 | 14 | 00 | 1 | 0.2 | 4.0 |
| | 06 | 3 | 0.4 | 5.4 | | 06 | 1 | 0.3 | 4.5 |
| | 12 | 3 | 0.3 | 5.0 | | 12 | 1 | 0.3 | 4.7 |
| | 18 | 3 | 0.2 | 4.1 | | 18 | 1 | 0.2 | 4.0 |
| 04 | 00 | 3 | 0.2 | 3.8 | 15 | 00 | 1 | 0.2 | 3.8 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.2 | 4.1 |
| | 12 | 0,0 | - | - | | 12 | 1 | 0.2 | 4.0 |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.2 | 3.9 |
| 05 | 00 | 0,0 | - | - | 16 | 00 | 1 | 0.2 | 4.1 |
| | 06 | 3 | 0.3 | 4.7 | | 06 | 1 | 0.2 | 4.3 |
| | 12 | ... | - | - | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.3 | 4.8 | | 18 | ... | - | - |
| 06 | 00 | ... | - | - | 17 | 00 | 3 | 0.2 | 4.1 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.2 | 4.2 |
| | 12 | 3 | 0.2 | 3.6 | | 12 | 3 | 0.2 | 4.0 |
| | 18 | 0,0 | - | - | | 18 | | 0.2 | 4.0 |
| 07 | 00 | 0,0 | - | - | 18 | 00 | 1 | 0.2 | 4.2 |
| | 06 | ... | - | - | | 06 | 0,0 | - | - |
| | 12 | ... | - | - | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 3 | 0.2 | 3.8 | | 18 | 0,0 | - | - |
| 08 | 00 | 3 | 0.2 | 3.6 | 19 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.3 | 4.2 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.3 | 4.4 | | 12 | 0,0 | - | - |
| | 18 | ... | - | - | | 18 | 0,0 | - | - |
| 09 | 00 | 1 | 0.2 | 3.7 | 20 | 00 | 0,0 | - | - |
| | 06 | 1 | 0.3 | 4.0 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.3 | 4.2 | | 12 | 0,0 | - | - |
| | 18 | 1 | 0.4 | 5.0 | | 18 | ... | - | - |
| 10 | 00 | 1 | 0.4 | 5.0 | 21 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | 0,0 | - | - |
| | 12 | ... | - | - | | 12 | 3 | 0.2 | 4.2 |
| | 18 | ... | - | - | | 18 | 3 | 0.2 | 3.8 |
| 11 | 00 | ... | - | - | 22 | 00 | 3 | 0.2 | 4.0 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.2 | 3.9 |
| | 12 | 0,0 | - | - | | 12 | 0.. | - | - |
| | 18 | 0,0 | - | - | | 18 | 0.. | - | - |

II

Station : Shillong (Contd).

MONTH : March, 1960.

| DATE | HOUR | K | Mean sim- ple ampli- tude in m.m. | Mean period in sec. | DATE | HOUR | K | Mean sim- ple ampli- tude in m.m. | Mean period in sec. |
|------|------|-----|---|---------------------------|------|------|-----|---|---------------------------|
| | GMT. | | | | | GMT. | | | |
| 23 | 00 | ... | - | - | 27 | 12 | 1 | 0.2 | 3.8 |
| | 06 | 0.. | - | - | | 18 | 1 | 0.2 | 3.7 |
| | 12 | ... | - | - | | | | | |
| | 18 | 1 | 0.2 | 4.0 | 28 | 00 | 1 | 0.2 | 3.8 |
| 24 | 00 | ... | - | - | | 06 | 1 | 0.3 | 4.6 |
| | 06 | 1 | 0.2 | 4.2 | | 12 | 1 | 0.2 | 4.1 |
| | 12 | 1 | 0.3 | 4.7 | | 18 | 0,0 | - | - |
| | 18 | 1 | 0.3 | 4.6 | 29 | 00 | 0,0 | - | - |
| 25 | 00 | 1 | 0.2 | 4.3 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.2 | 4.1 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.2 | 4.0 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.3 | 4.3 | 30 | 00 | 1 | 0.2 | 4.1 |
| 26 | 00 | 3 | 0.2 | 4.2 | | 06 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 12 | ... | - | - |
| | 12 | 3 | 0.2 | 3.8 | | 18 | 0,0 | - | - |
| | 18 | 1 | 0.3 | 4.4 | 31 | 00 | 0,0 | - | - |
| 27 | 00 | 1 | 0.3 | 4.3 | | 06 | 0,0 | - | - |
| | 06 | 1 | 0.2 | 4.0 | | 12 | 0,0 | - | - |
| | | | | | | 18 | 0,0 | - | - |

- III -

MICROSEISMIC TABULATION.

Station : Colaba (Bombay)

Component : E-W.

Month : March, 1960.

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT. | K | Mean simple amplitude in m.m. | Mean period in sec. |
|------|-------------|-----|--|---------------------------|------|--------------|---|--|---------------------------|
| 01 | 00 | ... | - | - | 07 | 00 | 3 | 0.5 | 5.5 |
| | 06 | 3 | 0.6 | 5.5 | | | | 0.3 | 2.6 |
| | | | 0.3 | 2.9 | 06 | 3 | 3 | 0.5 | 5.5 |
| | 12 | 3 | 0.6 | 5.5 | | | | 0.3 | 2.3 |
| | | | 0.4 | 2.5 | 12 | 3 | 3 | 0.5 | 5.3 |
| | 18 | 3 | 0.5 | 5.9 | | | | 0.3 | 2.5 |
| | | | 0.4 | 2.5 | 18 | 3 | 3 | 0.6 | 6.3 |
| | | | | | | | | 0.3 | 1.9 |
| 02 | 00 | 1 | 0.7 | 6.0 | 08 | 00 | 3 | 0.6 | 5.8 |
| | 03 | 1 | 0.8 | 6.3 | | | | 0.3 | 2.2 |
| | 06 | 1 | 0.9 | 6.5 | 06 | 3 | 3 | 0.5 | 5.6 |
| | 09 | 1 | 1.0 | 6.4 | | | | 0.3 | 2.1 |
| | 12 | 1 | 1.1 | 6.4 | 12 | 3 | 3 | 0.6 | 5.7 |
| | 15 | 1 | 1.2 | 6.7 | | | | 0.3 | 1.9 |
| | 18 | 1 | 1.1 | 6.6 | 18 | ... | - | - | - |
| | 21 | 1 | 1.2 | 6.8 | | | | | |
| 03 | 00 | 1 | 1.1 | 6.8 | 09 | 00 | 3 | 0.8 | 5.8 |
| | 03 | 1 | 1.0 | 6.7 | | | | 0.2 | 1.7 |
| | 06 | 1 | 0.9 | 6.5 | 06 | 3 | 3 | 0.3 | 5.5 |
| | 09 | 1 | 0.9 | 6.6 | | | | 0.2 | 2.5 |
| | 12 | 1 | 0.9 | 6.2 | 12 | 3 | 3 | 0.5 | 5.7 |
| | 15 | 1 | 0.7 | 6.3 | | | | 0.3 | 1.7 |
| | 18 | 1 | 0.7 | 6.1 | 18 | 3 | 3 | 0.6 | 5.2 |
| | | | | | | | | 0.2 | 1.9 |
| 04 | 00 | 3 | 0.4 | 5.2 | 10 | 00 | 3 | 0.6 | 5.1 |
| | | | 0.2 | 2.0 | | | | 0.3 | 2.0 |
| | 06 | 3 | 0.5 | 4.9 | 06 | ... | - | - | - |
| | | | 0.3 | 2.3 | 12 | 3 | 3 | 0.5 | 4.3 |
| | 12 | 3 | 0.5 | 4.9 | | | | 0.3 | 2.3 |
| | | | 0.3 | 2.4 | 18 | 3 | 3 | 0.5 | 5.2 |
| | 18 | 3 | 0.5 | 5.2 | | | | 0.3 | 2.0 |
| | | | 0.2 | 2.0 | | | | | |
| 05 | 00 | 3 | 0.5 | 5.4 | 11 | 00 | 3 | 0.4 | 4.9 |
| | | | 0.3 | 1.8 | | | | 0.2 | 2.0 |
| | 06 | 3 | 0.5 | 6.7 | 06 | 3 | 3 | 0.5 | 4.7 |
| | | | 0.5 | 2.1 | | | | 0.2 | 1.6 |
| | 12 | ... | - | - | 12 | 3 | 3 | 0.4 | 4.7 |
| | 18 | 3 | 0.6 | 5.8 | | | | 0.3 | 1.8 |
| | | | 0.3 | 2.2 | 18 | 3 | 3 | 0.4 | 2.1 |
| | | | | | | | | 0.4 | 5.0 |
| 06 | 00 | ... | - | - | 12 | 00 | 3 | 0.5 | 2.1 |
| | 06 | 3 | 0.4 | 5.2 | | | | 0.4 | 4.5 |
| | | | 0.4 | 2.4 | 03 | 1 | 1 | 0.5 | 2.2 |
| | 12 | 3 | 0.5 | 5.8 | 06 | 1 | 1 | 0.6 | 2.4 |
| | | | 0.3 | 2.5 | 09 | 1 | 1 | 0.6 | 2.6 |
| | 18 | 3 | 0.5 | 6.4 | 12 | 1 | 1 | 0.7 | 2.4 |
| | | | 0.4 | 2.4 | 15 | 1 | 1 | 0.4 | 2.2 |
| | | | | | 18 | 1 | 1 | 0.4 | 2.2 |
| | | | | | 21 | ... | - | - | - |

IV

| DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|---|----------|---|-------------------------------|---------------------|------|----------|-----|-------------------------------|---------------------|
| STATION : Colaba(Bombay) Component : E-W. MONTH : March,1960. | | | | | | | | | |
| 13 | 00 | 1 | 0.5 | 2.1 | 20 | 00 | 1 | 0.6 | 2.9 |
| | 03 | 1 | 0.5 | 2.4 | | 03 | 1 | 0.8 | 2.8 |
| | 06 | 1 | 0.7 | 2.5 | | 06 | 1 | 0.9 | 2.8 |
| | 09 | 1 | 0.8 | 2.6 | | 09 | 1 | 1.2 | 2.8 |
| | 12 | 1 | 0.7 | 2.7 | | 12 | 1 | 1.1 | 3.0 |
| | 15 | 1 | 0.7 | 2.7 | | 15 | 1 | 0.9 | 2.9 |
| | 18 | 1 | 0.6 | 2.7 | | 18 | ... | - | - |
| | 21 | 1 | 0. | 2.8 | | 21 | ... | - | - |
| 14 | 00 | 1 | 0.5 | 2.4 | 21 | 00 | 1 | 0.6 | 2.5 |
| | 06 | 3 | 0.6 | 3.2 | | 03 | 1 | 0.7 | 2.5 |
| | | | 0.6 | 2.2 | | 06 | 1 | 0.8 | 2.6 |
| | 12 | 3 | 0.5 | 3.3 | | 09 | 1 | 0.8 | 2.8 |
| | | | 0.6 | 2.5 | | 12 | 1 | 1.0 | 3.0 |
| | 18 | 3 | 0.5 | 3.8 | | 15 | 1 | 0.9 | 2.9 |
| | | | 0.5 | 2.4 | | 18 | 1 | 1.0 | 3.2 |
| | | | | | | 21 | 1 | 1.0 | 3.2 |
| 15 | 00 | 3 | 0.5 | 3.8 | 22 | 00 | 1 | 1.3 | 3.2 |
| | | | 0.4 | 2.0 | | 03 | 1 | 1.1 | 3.3 |
| | 06 | 3 | 0.5 | 3.9 | | 06 | 1 | 1.1 | 3.3 |
| | | | 0.5 | 2.2 | | 09 | 1 | 0.8 | 3.2 |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 1 | 0.9 | 3.2 |
| | | | 0.4 | 2.2 | | 15 | 1 | 0.9 | 3.3 |
| | 18 | 3 | 0.5 | 4.1 | | 18 | 1 | 0.9 | 3.3 |
| | | | 0.5 | 2.2 | | 21 | ... | - | - |
| 16 | 00 | 1 | 0.5 | 2.3 | 23 | 00 | ... | - | - |
| | 06 | 3 | 0.5 | 2.6 | | 03 | ... | - | - |
| | | | 0.4 | 4.0 | | 06 | 1 | 0.9 | 3.1 |
| | 12 | 3 | 0.5 | 2.7 | | 09 | 1 | 0.8 | 2.9 |
| | | | 0.4 | 3.5 | | 12 | 1 | 0.7 | 2.9 |
| | 18 | 3 | 0.4 | 2.4 | | 18 | 3 | 0.5 | 3.6 |
| | | | 0.4 | 3.9 | | | | 0.3 | 2.2 |
| 17 | 00 | 1 | 0.6 | 2.4 | 24 | 00 | ... | - | - |
| | 03 | 1 | 0.5 | 2.5 | | 06 | 3 | 0.4 | 3.8 |
| | 06 | 1 | 0.5 | 2.4 | | | | 0.3 | 2.3 |
| | 09 | 1 | 0.6 | 2.5 | | 12 | 3 | 0.5 | 2.9 |
| | 12 | 1 | 0.8 | 2.8 | | | | 0.3 | 2.2 |
| | 15 | 1 | 0.8 | 2.8 | | 18 | 3 | 0.4 | 4.3 |
| | 18 | 1 | 0.8 | 2.7 | | | | 0.3 | 2.2 |
| | 21 | 1 | 0.7 | 2.8 | | | | | |
| 18 | 00 | 1 | 0.7 | 2.7 | 25 | 00 | 3 | 0.5 | 4.7 |
| | 03 | 1 | 1.0 | 2.9 | | | | 0.3 | 2.0 |
| | 06 | 1 | 1.4 | 3.2 | | 06 | 3 | 0.4 | 4.4 |
| | 09 | 1 | 1.4 | 3.1 | | | | 0.3 | 2.3 |
| | 12 | 1 | 0.9 | 3.3 | | 12 | 2 | 0.4 | 4.8 |
| | 15 | 1 | 0.8 | 2.9 | | 18 | 2 | 0.4 | 4.4 |
| | 18 | 1 | 0.8 | 2.9 | | | | | |
| | 21 | 1 | 0.8 | 2.8 | 26 | 00 | 2 | 0.4 | 4.3 |
| 19 | 00 | 1 | 0.8 | 2.8 | | 06 | 2 | 0.5 | 4.6 |
| | 03 | 1 | 0.8 | 2.9 | | 12 | 3 | 0.3 | 4.6 |
| | 06 | 1 | 0.8 | 2.7 | | | | 0.4 | 1.8 |
| | 09 | 1 | 0.8 | 2.9 | | 18 | 1 | 0.5 | 2.2 |
| | 12 | 1 | 1.0 | 2.8 | | 21 | 1 | 0.5 | 2.3 |
| | 15 | 1 | 1.0 | 2.8 | | | | | |
| | 18 | 1 | 0.8 | 2.7 | | | | | |
| | 21 | 1 | 0.7 | 2.8 | | | | | |

W

| DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN ^m m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN SIMPLE AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|----------|---|--|---------------------|------|----------|---|-------------------------------|---------------------|
|------|----------|---|--|---------------------|------|----------|---|-------------------------------|---------------------|

STATION : Colaba(Bombay) (Contd.) Component : E-W. MONTH : March, 1960.

| | | | | | | | | | | | |
|-------------------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 27 | 00 | 1 | 0.5 | 2.5 | 02 | 06 | 2 | 0.6 | 6.2 | | |
| | 03 | 1 | 0.6 | 2.3 | | 3 | 0.2 | 2.3 | | | |
| | 06 | 1 | 0.6 | 2.6 | | 12 | 1 | 1.0 | 6.7 | | |
| | 09 | 1 | 0.7 | 2.7 | | | 3 | 0.2 | 2.3 | | |
| | 12 | 1 | 0.6 | 2.3 | | 18 | 1 | 1.2 | 6.9 | | |
| | 15 | 1 | 0.6 | 2.4 | | | 3 | 0.2 | 2.2 | | |
| | 18 | 1 | 0.7 | 2.6 | | | 03 | 00 | 1 | 0.9 | 6.6 |
| | 21 | 1 | 0.8 | 2.6 | | 3 | | 0.2 | 2.2 | | |
| 28 | 00 | 1 | 0.7 | 2.8 | 03 | 03 | 1 | 1.2 | 6.6 | | |
| | 03 | 1 | 0.8 | 2.8 | | 3 | 0.2 | 2.3 | | | |
| | 06 | 1 | 0.7 | 2.7 | | 06 | 1 | 1.2 | 6.6 | | |
| | 09 | 1 | 0.8 | 2.8 | | | 3 | 0.2 | 2.1 | | |
| | 12 | 1 | 0.8 | 2.7 | | 12 | 1 | 0.8 | 6.2 | | |
| | 15 | 1 | 0.8 | 2.5 | | | 3 | 0.3 | 2.1 | | |
| | 18 | 1 | 0.9 | 2.8 | | | 18 | 3 | 0.5 | 5.9 | |
| | 21 | 1 | 0.8 | 2.6 | | 3 | | 0.2 | 2.2 | | |
| 29 | 00 | 1 | 0.8 | 2.7 | 04 | 00 | 3 | 0.2 | 2.1 | | |
| | 03 | 1 | 0.9 | 2.7 | | 03 | 3 | 0.1 | 1.9 | | |
| | 06 | 1 | 1.1 | 3.0 | | 06 | 3 | 0.1 | 1.8 | | |
| | 09 | ... | - | - | | | 12 | 3 | 0.1 | 2.1 | |
| | 12 | 1 | 0.8 | 2.7 | | 18 | 3 | 0.1 | 2.2 | | |
| | 15 | 1 | 0.8 | 2.6 | | | 05 | 00 | 3 | 0.1 | 2.1 |
| | 18 | 1 | 0.8 | 2.5 | | | | 03 | 3 | 0.1 | 2.1 |
| | 21 | 1 | 0.7 | 2.6 | | 06 | 3 | 0.1 | 2.1 | | |
| 30 | 00 | 1 | 0.7 | 2.7 | 06 | 12 | ... | - | - | | |
| | 03 | 1 | 0.7 | 2.8 | | 18 | ... | - | - | | |
| | 06 | 1 | 0.8 | 2.6 | | 00 | ... | - | - | | |
| | 09 | 1 | 1.0 | 2.8 | | | 03 | ... | - | - | |
| | 12 | ... | - | - | | 06 | 3 | 0.1 | 2.1 | | |
| | 15 | 1 | 0.8 | 2.7 | | | 12 | 3 | 0.1 | 2.1 | |
| | 18 | 1 | 0.7 | 2.9 | | | 18 | 3 | 0.1 | 1.7 | |
| | 21 | 1 | 0.8 | 2.7 | | 07 | | 00 | 3 | 0.1 | 1.7 |
| 31 | 00 | 1 | 0.8 | 2.9 | 03 | | 3 | 0.1 | 1.8 | | |
| | 03 | 1 | 0.9 | 2.8 | 06 | | 3 | 0.1 | 1.5 | | |
| | 06 | 1 | 0.9 | 2.9 | | | 12 | 3 | 0.1 | 1.6 | |
| | 09 | 1 | 0.9 | 2.8 | 18 | | 3 | 0.1 | 1.7 | | |
| | 12 | 1 | 0.7 | 2.9 | | | 08 | 00 | 3 | 0.2 | 1.9 |
| | 15 | 1 | 0.7 | 2.9 | | | | 03 | ... | - | - |
| | 18 | 1 | 0.8 | 2.8 | 09 | | 06 | 3 | 0.2 | 2.3 | |
| | 21 | 1 | 0.8 | 2.7 | | 12 | 3 | 0.2 | 2.2 | | |
| STATION : Madras. | 01 | 2 | 0.5 | 5.7 | | 00 | 3 | 0.2 | 2.1 | | |
| | | | 0.6 | 6.0 | | | | 0.2 | 1.9 | | |
| | | | 0.5 | 5.8 | 0.1 | | | 2.0 | | | |
| | | | 0.6 | 5.5 | 0.1 | | | 1.9 | | | |
| | | 3 | 0.5 | 5.5 | 18 | 3 | 0.1 | 1.8 | | | |
| | | | 0.2 | 1.9 | | | 10 | 00 | 3 | 0.1 | 1.9 |
| | | | 0.3 | 2.2 | | | | | | | |
| | | | | 0.7 | | | 6.1 | 0.1 | 1.9 | | |
| 02 | 00 | 2 | 0.5 | 5.7 | 03 | 3 | 0.1 | 1.8 | | | |
| | | | 0.3 | 2.2 | | | 0.1 | 1.5 | | | |
| | | 3 | 0.2 | 2.3 | | | 0.1 | 1.8 | | | |
| | | | 0.2 | 2.3 | | | 0.1 | 1.5 | | | |

VI

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|------|---|------------------------|---------------------|------|------|---|------------------------|---------------------|
|------|------|---|------------------------|---------------------|------|------|---|------------------------|---------------------|

STATION : Madras. Component : E-W. Month : March, 1960.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 11 | 00 | 3 | 0.1 | 1.6 | 21 | 00 | 1 | 0.6 | 3.4 |
| | 03 | ... | - | - | | 03 | 1 | 0.6 | 3.3 |
| | 06 | ... | - | - | | 06 | 1 | 0.6 | 3.6 |
| | 12 | 3 | 0.1 | 2.1 | | 12 | 1 | 0.6 | 3.6 |
| | 18 | 3 | 0.2 | 2.2 | | 18 | 1 | 0.5 | 3.6 |
| 12 | 00 | 3 | 0.1 | 2.3 | 22 | 00 | 1 | 0.5 | 3.4 |
| | 03 | 3 | 0.2 | 2.5 | | 03 | 1 | 0.5 | 3.5 |
| | 06 | 3 | 0.2 | 2.7 | | 06 | 1 | 0.5 | 3.4 |
| | 12 | 3 | 0.3 | 2.8 | | 12 | 1 | 0.5 | 3.6 |
| | 18 | 1 | 0.4 | 3.1 | | 18 | 1 | 0.4 | 3.5 |
| 13 | 00 | 1 | 0.4 | 3.1 | 23 | 00 | 3 | 0.4 | 3.4 |
| | 03 | 1 | 0.4 | 3.1 | | 03 | 3 | 0.4 | 3.4 |
| | 06 | 1 | 0.4 | 3.2 | | 06 | 1 | 0.5 | 3.5 |
| | 12 | 1 | 0.4 | 3.1 | | 12 | 1 | 0.4 | 3.4 |
| | 18 | 1 | 0.5 | 3.3 | | 18 | 3 | 0.5 | 3.5 |
| 14 | 00 | 1 | 0.4 | 3.2 | 24 | 00 | 3 | 0.4 | 3.5 |
| | 03 | 1 | 0.4 | 3.4 | | 03 | 3 | 0.4 | 3.6 |
| | 06 | 1 | 0.5 | 3.5 | | 06 | 3 | 0.4 | 3.6 |
| | 12 | 1 | 0.5 | 3.5 | | 12 | 3 | 0.4 | 3.5 |
| | 18 | 1 | 0.5 | 3.6 | | 18 | 3 | 0.4 | 3.6 |
| 15 | 00 | 1 | 0.5 | 3.5 | 25 | 00 | 3 | 0.3 | 3.6 |
| | 03 | 1 | 0.6 | 3.7 | | 03 | 3 | 0.3 | 3.9 |
| | 06 | 1 | 0.6 | 3.7 | | 06 | 3 | 0.3 | 3.9 |
| | 12 | 1 | 0.5 | 3.6 | | 12 | 3 | 0.3 | 3.8 |
| | 18 | 1 | 0.5 | 3.5 | | 18 | 3 | 0.3 | 3.8 |
| 16 | 00 | 1 | 0.4 | 3.4 | 26 | 00 | 3 | 0.1 | 1.2 |
| | 03 | 3 | 0.3 | 3.3 | | 03 | 3 | 0.3 | 3.6 |
| | 06 | 3 | 0.3 | 3.1 | | 06 | 3 | 0.1 | 1.1 |
| | 12 | 3 | 0.2 | 3.1 | | 12 | 3 | 0.3 | 3.7 |
| | 18 | 3 | 0.2 | 3.1 | | 18 | 3 | 0.1 | 1.2 |
| 17 | 00 | ... | - | - | 27 | 00 | ... | - | - |
| | 03 | 3 | 0.2 | 3.0 | | 03 | 3 | 0.3 | 3.4 |
| | 06 | 3 | 0.2 | 2.9 | | 06 | 3 | 0.2 | 2.5 |
| | 12 | 3 | 0.2 | 2.9 | | 12 | 3 | 0.2 | 2.6 |
| | 18 | 3 | 0.2 | 2.8 | | 18 | 3 | 0.2 | 2.7 |
| 18 | 00 | 3 | 0.1 | 2.8 | 28 | 00 | 3 | 0.2 | 2.8 |
| | 03 | 3 | 0.2 | 2.7 | | 03 | 3 | 0.4 | 3.0 |
| | 06 | 3 | 0.3 | 3.1 | | 06 | 3 | 0.3 | 3.0 |
| | 12 | 3 | 0.3 | 3.1 | | 12 | 3 | 0.4 | 3.1 |
| | 18 | 3 | 0.3 | 3.2 | | 18 | 3 | 0.4 | 3.1 |
| 19 | 00 | 3 | 0.2 | 3.0 | 29 | 00 | 3 | 0.3 | 3.1 |
| | 03 | 3 | 0.3 | 3.3 | | 03 | 3 | 0.4 | 3.2 |
| | 06 | 3 | 0.3 | 3.2 | | 06 | 3 | 0.4 | 3.1 |
| | 12 | 3 | 0.3 | 3.2 | | 12 | 3 | 0.3 | 3.2 |
| | 18 | 1 | 0.4 | 3.2 | | 18 | 3 | 0.4 | 3.1 |
| 20 | 00 | 1 | 0.3 | 3.2 | | | | | |
| | 03 | 1 | 0.5 | 3.5 | | | | | |
| | 06 | 1 | 0.5 | 3.6 | | | | | |
| | 12 | 1 | 0.6 | 3.5 | | | | | |
| | 18 | ... | - | - | | | | | |

VII

| DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|---------------------------|-------------|-----|------------------------------|---------------------------|---------------------------------------|-------------|-----|------------------------------|---------------------------|
| STATION : Madras (contd.) | | | | | Component : E-W. Month : March, 1960. | | | | |
| 30 | 00 | 3 | 0.3 | 3.2 | 10 | 00 | 0.. | - | - |
| | 03 | 3 | 0.4 | 3.5 | | 06 | 0.. | - | - |
| | | 3 | 0.2 | 1.2 | | 12 | 0.. | - | - |
| | 06 | 3 | 0.4 | 3.6 | | 18 | 0.. | - | - |
| | | 3 | 0.1 | 1.1 | | | | | |
| | 12 | 3 | 0.5 | 3.7 | 11 | 00 | 0.. | - | - |
| | 18 | 3 | 0.5 | 3.7 | | 06 | 0.. | - | - |
| | | | | | | 12 | 0.. | - | - |
| 31 | 00 | 1 | 0.5 | 3.7 | | 18 | 0.. | - | - |
| | 03 | 1 | 0.5 | 3.7 | | | | | |
| | 06 | 1 | 0.4 | 3.6 | 12 | 00 | 0.. | - | - |
| | 12 | 1 | 0.5 | 3.5 | | 06 | 0.. | - | - |
| | 18 | 1 | 0.5 | 3.7 | | 12 | 0.. | - | - |
| | | | | | | 18 | 0.. | - | - |
| STATION : Port Blair. | | | | | | | | | |
| 01 | 00 | 0.. | - | - | 13 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | ... | - | - |
| | 12 | 0.. | - | - | | 12 | ... | - | - |
| | 18 | 0.. | - | - | | 18 | ... | - | - |
| 02 | 00 | 3 | 0.4 | 7.5 | 14 | 00 | ... | - | - |
| | 06 | 3 | 0.4 | 7.5 | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 7.5 | | 12 | ... | - | - |
| | 18 | 3 | 0.4 | 7.5 | | 18 | ... | - | - |
| 03 | 00 | 3 | 0.4 | 7.5 | 15 | 00 | 0.. | - | - |
| | 06 | 3 | 0.4 | 7.5 | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 04 | 00 | 0.. | - | - | 16 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 05 | 00 | 0.. | - | - | 17 | 00 | 0.. | - | - |
| | 06 | 2 | 0.4 | 7.5 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 7.5 | | 12 | 0.. | - | - |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 0.. | - | - |
| 06 | 00 | ... | - | - | 18 | 00 | 0.. | - | - |
| | 06 | 1 | 0.4 | 7.5 | | 06 | 0.. | - | - |
| | 12 | 1 | 0.4 | 7.5 | | 12 | 0.. | - | - |
| | 18 | 1 | 0.4 | 7.5 | | 18 | 0.. | - | - |
| 07 | 00 | 1 | 0.4 | 7.5 | 19 | 00 | 0.. | - | - |
| | 06 | 1 | 0.4 | 7.5 | | 06 | 0.. | - | - |
| | 12 | 1 | 0.4 | 7.5 | | 12 | 0.. | - | - |
| | 18 | 1 | 0.4 | 7.5 | | 18 | 0.. | - | - |
| 08 | 00 | 1 | 0.4 | 7.5 | 20 | 00 | 0.. | - | - |
| | 06 | 0,0 | - | - | | 06 | 0.. | - | - |
| | 12 | 0,0 | - | - | | 12 | 0.. | - | - |
| | 18 | 0,0 | - | - | | 18 | 0.. | - | - |
| 09 | 00 | 0,0 | - | - | 21 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |

VIII

| DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|-------------|---|------------------------------|---------------------------|------|-------------|---|------------------------------|---------------------------|
|------|-------------|---|------------------------------|---------------------------|------|-------------|---|------------------------------|---------------------------|

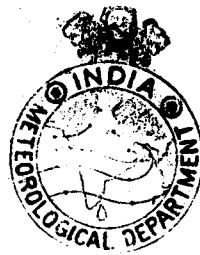
STATION : Port Blair (contd.) Component : E-W. Month : March, 1960.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 22 | 00 | 0.. | - | - | 27 | 00 | ... | - | - |
| | 06 | 0.. | - | - | | 06 | ... | - | - |
| | 12 | 0.. | - | - | | 12 | 1 | 0.8 | 3.5 |
| | 18 | 0.. | - | - | | 18 | 1 | 0.8 | 3.5 |
| 23 | 00 | 0.. | - | - | 28 | 00 | 1 | 1.2 | 3.3 |
| | 06 | 0.. | - | - | | 06 | 1 | 0.4 | 3.3 |
| | 12 | 0.. | - | - | | 12 | ... | - | - |
| | 18 | 0.. | - | - | | 18 | ... | - | - |
| 24 | 00 | 0.. | - | - | 29 | 00 | ... | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 25 | 00 | 0,0 | - | - | 30 | 00 | ... | - | - |
| | 06 | 0,0 | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 0,0 | - | - | | 18 | ... | - | - |
| 26 | 00 | 0,0 | - | - | 31 | 00 | ... | - | - |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | ... | - | - |
| | 18 | ... | - | - | | 18 | ... | - | - |
| 27 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | 1 | 0.8 | 3.5 | | | | | |
| | 18 | 1 | 0.8 | 3.5 | | | | | |
| 28 | 00 | 1 | 1.2 | 3.3 | | | | | |
| | 06 | 1 | 0.4 | 3.3 | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | ... | - | - | | | | | |
| 29 | 00 | ... | - | - | | | | | |
| | 06 | 0.. | - | - | | | | | |
| | 12 | 0.. | - | - | | | | | |
| | 18 | 0.. | - | - | | | | | |
| 30 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | ... | - | - | | | | | |
| 31 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | ... | - | - | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

April, 1960



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| STATION | LATI- TUDE | LONGI- TUDE | HEIGHT a. s. l. (Metres) | LITHOGRAPHIC FOUNDATION | INSTRUMENT | COMPT. | PERIOD IN SECS | STATIC MAGNIFI- CATION | DAMPING RATIO | PAPER SPEED mm/min |
|-------------|---------------|----------------|--------------------------------|--|----------------------|--------|----------------------|------------------------------|------------------|--------------------------|
| Agra | | | | | Columbia | E | To=15 | | | 15 |
| | | | | | Long Period | N | Tg=100 | | | |
| | | | | | -do- | Z | To=15 | | | 15 |
| Bombay | 18°54'N | 72°40'E | 6 | Deccan Trap | Milne-Shaw | E | 12 | 350 | 13:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 |
| | | | | | Sprengnether | E | To=Tg=7 | secs | | 30 |
| Bokaro | 23°50'N | 85°48'E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h=0.8 | 60 |
| Calcutta | 22°32'N | 88°22'E | (1) 7 | (2) 6 | (Milne-Shaw) | E | 12 | 250 | 20:1 | 8 |
| | | | | | (Omori-Ewing) | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | N | 16 | 32 | | 25.4 |
| Chatra | 26°50'N | 87°10'E | 16.1 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 |
| | | | | | Benioff | Z | To=0.72 | Tg=0.45 | Critical | 60 |
| | | | | | Wenner-Accelerograph | ZNE | | | | |
| Colombo | 06°54'N | 79°52'E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - |
| Dehra dun | 30°19'N | 78°02'E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| Hyderabad | 17°25'N | 78°27'E | 536 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| Kodeikanal | 10°14'N | 77°28'E | 2346 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 |
| Madras | 13°00'N | 80°11'E | 15 | - | Sprengnether | E | To=Tg=72 | secs | Critical | 30 |
| New Delhi | 28°35'N | 77°12'E | 207 | Massive Quartzite | | | | | | |
| POONA | 18°32'N | 73°51'E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.5 | | Critical | 30 |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 |
| Port Blair | 11°49'N | 92°43'E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 55:1 | 30 |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 |
| Shillong | 25°34'N | 91°53'E | 1500 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 h=0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 50 |
| | | | | | Sprengnether | E | To=Tg=6.5 | | Critical | 30 |
| | | | | | Wenner Accelerograph | ZNE | | | | |
| Tocklai | 28°45'N | 94°45'E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 |
| Vizianagram | 18°07'N | 83°27'E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-----------|-------|----------|----------------------|-----------------|-------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 01 | Shillong | Z | iP | 05 05 35 | | Slight, distant, rarefaction. |
| 01 | Shillong | Z | iP | 03 08 57 | | Slight, distant, rarefaction. |
| 01 | Shillong | Z | iP | 03 11 51 | | Slight, distant, rarefaction. |
| 01 | Shillong | Z | eP | 04 59 36 | | Slight, distant. |
| 01 | Shillong | Z | iP | 05 49 32 | | Slight, near. |
| 01 | Shillong | Z | iP | 05 59 13 | | Slight, distant. |
| 01 | Shillong | Z | iP | 09 59 55 | | Slight, distant. |
| 01 | Shillong | Z | iP | 10 40 47 | | Slight, distant. |
| 01 | Shillong | Z | iP | 11 47 15 | | Slight, near, compression. |
| | Chatra | Z | eP S | 11 47 29 48 03 | 300 | Slight. |
| 01 | Shillong | Z | iP | 13 31 18 | | Tremor. |
| 01 | Shillong | Z | iP | 13 38 17 | | Slight, distant, compression. |
| 01 | Shillong | Z | iP | 13 43 11 | | Tremor. |
| 01 | Shillong | Z | eP | 18 23 14 | | Slight, near. |
| 01 | Shillong | Z | iP | 23 30 02 | | Slight, distant, compression. |
| 02 | Shillong | Z | eP | 02 35 21 | | Slight, distant. |
| 02 | Shillong | Z | eP | 02 52 40 | | Slight, distant. |
| 02 | Shillong | Z | eP | 06 48 07 | | Slight, distant. |
| 02 | Shillong | Z | eP | 08 53 05 | | Slight, near. |
| 02 | Dehra Dun | NE | eP iS | 10 51 58 33 29 | 880 | Slight. |
| 02 | Chatra | Z | eP | 10 53 41 | | Feeble. |
| 02 | Shillong | Z | iP | 10 54 21 | | Slight, distant, compression. |
| 02 | Shillong | Z | iP | 10 56 12 | | Tremor, near. |
| 02 | Shillong | Z | iP | 11 27 47 | | Slight, distant, compression. |
| 02 | Shillong | Z | iP | 11 48 46 | | Slight, distant, rarefaction. |
| 02 | Shillong | Z | iP | 14 25 33 | | Slight, distant, compression. |
| 02 | Shillong | Z | eP | 14 46 49 | | Slight, distant. |
| 02 | Shillong | Z | eP | 15 17 05 | | Slight, distant. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|---------|---------------------|-------------------------------------|-----------------|-------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 02 | Shillong | Z | iP | 15 20 05 | | Slight, distant, rarefaction. |
| 02 | Chatra | Z | Pg Sg | 16 16 14 16 21 | 50 | Mild. |
| 02 | Dehra Dun | NE | e | 16 20 11 | | Tremor. |
| 02 | Dehra Dun | NE | e | 17 24 45 | | Tremor. |
| 02 | Shillong | Z | iP | 19 30 05 | | Slight, distant, compression. |
| 02 | Chatra | Z | iP | 19 30 39 | | Mild, distant, rarefaction. |
| 02 | Shillong | Z | iP | 22 01 36 | | Slight, near. |
| 02 | Chatra | Z | eP | 22 05 03 | | Feeble, near. |
| 02 | Epc: 36° N, 50° E, Western Iran, -H = 22 h. 36 m. 08 s. (U.S.C.G.S) | | | | | |
| | Dehra Dun | NE N | eP iS SS M | 22 41 46 46 14 47 32 50 44 | 3010 | Slight. |
| | Bombay | NE E | e e M | 22 42 01 47 15 56 -- | | Slight. |
| | Chatra | Z | eP | 22 42 46 | | Feeble, distant. |
| | Shillong | Z | iP | 22 43 20 | | Slight, distant, compression. |
| | Shillong | Z | iP | 23 10 39 | | Slight, distant. |
| | Chatra | Z | iP | 23 11 07 | | Feeble, distant. |
| 02 | Epc: 34½° N, 48½° E, Iran, -H = 23 h. 53 m. 09 s. (U.S.C.G.S.) | | | | | |
| | Dehra Dun | NE | eP eS | 23 38 47 43 19 | 2930 | Slight. |
| | Bombay | E N | eP eS M | 23 38 55 43 39 54 -- | 3110 | Slight. |
| | Chatra | Z | eP | 23 39 58 | | Feeble, distant. |
| | Shillong | Z | iP | 23 40 34 | | Slight, distant, compression. |
| 03 | Chatra | Z | iP | 05 17 14 | | Feeble, distant, rarefaction. |
| | Shillong | Z | iP | 05 17 41 | | Slight, distant, rarefaction. |
| 03 | Shillong | Z | iP | 05 19 23 | | Slight, distant, rarefaction. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-----------|--------|------------|----------------------|-----------------|-------------------------------|
| <u>April, 1930.</u> | | | | | | |
| 03 | Shillong | Z | iP | 07 26 13 | | Slight, distant, compression. |
| | Chatra | Z | iP | 07 28 39 | | Feeble, distant. |
| 03 | Shillong | Z | eP | 12 46 50 | | Slight, distant. |
| 03 | Shillong | Z | iPg | 16 38 57 | | Slight, near. |
| 03 | Shillong | Z | eP | 22 30 33 | | Slight, distant. |
| 03 | Dohra Dun | NE | e | 23 30 54 | | Tremor. |
| | Chatra | Z | eP S | 23 31 33 32 43 | 670 | Slight. |
| 03 | Shillong | Z | iP | 23 32 28 | | Slight, distant, rarefaction. |
| | Poona | Z | e | 23 34 58 | | Feeble. |
| | Bombay | E N | e M | 23 36 44 28 - | | Slight, near. |
| 04 | Shillong | Z | eP | 05 25 19 | | Slight, distant. |
| 04 | Shillong | Z | iP | 08 07 57 | | Slight, distant, compression. |
| | Chatra | Z | eP | 08 08 27 | | Feeble. |
| 04 | Shillong | Z | iP | 08 36 07 | | Slight, distant, rarefaction. |
| 04 | Shillong | Z | iP | 10 30 09 | | Slight, distant, rarefaction. |
| 04 | Shillong | Z | iP | 12 56 10 | | Slight, distant, compression. |
| 04 | Shillong | Z | eP | 13 16 13 | | Slight, distant. |
| 04 | Shillong | Z | eP | 17 09 28 | | Slight, near. |
| 04 | Shillong | Z | iP | 18 58 10 | | Slight, distant, compression. |
| 04 | Shillong | Z | iP | 20 01 18 | | Slight, near, compression. |
| 04 | Shillong | Z | iP | 20 58 10 | | Slight, distant. |
| 04 | Shillong | Z | ePg eSg | 21 37 37 37 47 | 90 | Slight. |
| 04 | Shillong | Z | iP | 23 24 24 | | Slight, distant, rarefaction. |
| 04 | Shillong | Z | iP | 23 34 11 | | Slight, distant, compression. |
| | Chatra | Z | iP | 23 34 27 | | Feeble, compression. |
| 05 | Shillong | Z | iP iSg | 02 53 24 53 35 | 100 | Slight. |
| 05 | Shillong | Z | e | 04 10 52 | | Tremor. |
| 05 | Shillong | Z | iP | 06 06 09 | | Slight, near. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|-----------|-------|-------|----------------------|-----------------|---|
| <u>April, 1960.</u> | | | | | | |
| 05 | Shillong | Z | eP | 07 36 44 | | Slight, distant, compression. |
| 05 | Hyderabad | N | M | 08 34 52 | | Period = 15 secs. Gr. dis: = 3 μ . |
| 05 | Shillong | Z | eP | 12 55 16 | | Slight, distant, rarefaction. |
| 05 | Shillong | Z | iP | 13 12 23 | | Slight, local. |
| | Chatra | Z | e | 13 13 21 | | Feeble, near. |
| | | | i | 13 32 | | |
| 05 | Bokaro | N | e | 17 27 10 | | Slight, distant. |
| | Chatra | Z | iP | 17 36 12 | | Feeble, distant, compression. |
| | Shillong | Z | iP | 17 36 27 | | Slight, distant, compression. |
| 05 | Dehra Dun | NE | e | 18 10 34 | | Tremor. |
| 05 | Shillong | Z | e | 18 14 12 | | Slight, near. |
| | | | i | 14 25 | | |
| 05 | Dehra Dun | NE | e | 20 34 08 | | Feeble. |
| | | | i | 34 18 | | |
| 05 | Shillong | Z | i | 22 30 40 | | Slight, near. |
| 06 | Shillong | Z | eP | 01 59 28 | 740 | Slight. |
| | | | iS | 02 00 02 | | |
| 06 | Shillong | Z | e | 02 25 35 | | Slight, distant. |
| 06 | Shillong | Z | iP | 03 53 19 | | Slight, distant, rarefaction. |
| 06 | Shillong | Z | eP | 05 01 47 | | Slight, distant. |
| 06 | Shillong | Z | iP | 06 42 51 | | Slight, distant, compression. |
| 06 | Shillong | Z | iP | 07 07 27 | | Slight, distant, compression. |
| 06 | Shillong | Z | eP | 08 06 38 | | Slight, distant. |
| 06 | Shillong | Z | iP | 09 31 01 | | |
| | Chatra | Z | iP | 09 31 17 | | Feeble, distant, compression. |
| 06 | Shillong | Z | iP | 10 29 26 | | Slight, distant, rarefaction. |
| 06 | Shillong | Z | iP | 13 09 47 | | Slight, distant, rarefaction. |
| 06 | Shillong | Z | iP | 13 35 51 | | Slight, distant, rarefaction. |
| | Dehra Dun | NE | e | 13 39 11 | | Tremor. |
| | Bokaro | N | e | 13 39 56 | | Slight, distant. |
| | Bombay | E | e | 13 45 25 | | Surface waves. |

| DATE | STATION | COMET | PHASE | G. M. T. Δ | | REMARKS | |
|---------------------|--------------------|---------|---------|-------------------|-----|-------------|-------------------------------|
| | | | | h. m. s. | km. | | |
| <u>April, 1960.</u> | | | | | | | |
| 06 | Chatra | Z | 1P | 13 | 53 | 28 | Feeble, compression. |
| | contd, Shillong | Z | 1P | 13 | 54 | 14 | Slight, distant, compression. |
| | Dehra Dun | NE | e | 13 | 55 | 11 | Tremor. |
| 06 | Shillong | Z | 1P | 15 | 24 | 37 | Slight, distant, rarefaction. |
| 06 | Shillong | Z | eP | 15 | 57 | 05 | Slight, near. |
| 06 | Shillong | Z | 1P | 17 | 07 | 03 | Slight, distant, compression. |
| 06 | Shillong | Z | eP | 17 | 13 | 29 | Slight, distant. |
| 06 | Shillong | Z | 1P | 17 | 57 | 07 | Slight, distant, rarefaction. |
| 06 | Shillong | Z | eP | 18 | 30 | 37 | Slight, near. |
| 06 | Shillong | Z | eP | 19 | 51 | 43 | Slight, near. |
| | Chatra | Z | P S | 19 | 52 | 07 52 48 | 360 Mild. |
| 06 | Chatra | Z | 1P | 21 | 40 | 22 | Feeble, distant, compression. |
| | Shillong | Z | eP | 21 | 41 | 07 | Slight, distant. |
| 06 | Shillong | Z | eP | 23 | 25 | 36 | Slight, distant. |
| 07 | Shillong | Z | eP | 00 | 49 | 29 | Slight, near. |
| 07 | Shillong | Z | 1P | 02 | 33 | 14 | Slight, distant. |
| 07 | Shillong | Z | 1P | 02 | 50 | 30 | Slight, distant, compression. |
| 07 | Shillong | Z | 1P | 03 | 17 | 05 | Slight, distant, compression. |
| 07 | Shillong | Z | eP | 03 | 52 | 27 | Slight, near. |
| | Tooklai | E | eP | 03 | 52 | 34 | Slight, near. |
| | Chatra | Z | 1P S | 05 | 53 | 11 54 35 | 810 Feeble, compression. |
| 07 | Chatra | Z | 1P S | 05 | 17 | 41 18 04 | 190 Mild. |
| 07 | Chatra | Z NE | 1P S | 07 | 23 | 17 24 32 | 710 Slight. |
| | Dehra Dun | NE | e i | 07 | 24 | 34 25 20 | Feeble . |
| 07 | Dehra Dun | NE | e | 08 | 18 | 46 | Tremor. |
| 07 | Dehra Dun | NE | e | 12 | 30 | 44 | Tremor. |

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| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ | REMARKS |
|---------------------|-----------|--------|-------|----|----|----|----------|----------------------------------|
| | | | | h. | m. | s. | km. | |
| <u>April, 1960.</u> | | | | | | | | |
| | Chatra | Z | eP | 12 | 30 | 47 | | Feeble. |
| 07 | Dehra Dun | NE | e | 13 | 56 | 08 | | Feeble. |
| | | | e | | 56 | 48 | | |
| | Chatra | Z | eP | 13 | 56 | 22 | | Feeble. |
| 07 | Chatra | Z | eP | 17 | 24 | 28 | | Mild. |
| 07. | Chatra | Z | iP | 20 | 13 | 12 | | Feeble, distant rarefaction. |
| 08 | Shillong | Z | iP | 05 | 55 | 47 | | Slight, distant. |
| 08 | Shillong | Z | eP | 07 | 17 | 57 | | Slight, distant. |
| 08 | Shillong | Z | iP | 07 | 30 | 35 | | Slight, distant and rarefaction. |
| 08 | Shillong | Z | eP | 08 | 44 | 56 | | Slight, distant. |
| 08 | Shillong | Z | iP | 10 | 11 | 08 | | Tremor, compression. |
| 08 | Shillong | Z | iP | 10 | 14 | 21 | | Slight, distant compression. |
| 08 | Shillong | Z | iP | 12 | 06 | 35 | | Slight, distant rarefaction. |
| 08 | Shillong | Z | iP | 13 | 10 | 57 | | Slight, distant rarefaction. |
| 08 | Shillong | Z | eP | 19 | 37 | 56 | | Slight, near. |
| 08 | Shillong | Z | eP | 20 | 25 | 17 | | Slight, near. |
| 08 | Shillong | Z | eP | 23 | 31 | 34 | | Slight, distant. |
| 09 | Shillong | Z | iP | 02 | 51 | 28 | | Slight, distant rarefaction. |
| | Chatra | Z | eP | 02 | 52 | 31 | | Feeble. |
| 09 | Shillong | Z | eP | 03 | 16 | 17 | | Slight, distant. |
| 09 | Shillong | Z | iP | 06 | 07 | 18 | | Slight, distant compression. |
| 09 | Shillong | Z | iP | 06 | 48 | 01 | | Slight, near. |
| 09 | Shillong | Z | iP | 13 | 21 | 52 | | Slight, distant rarefaction. |
| 09 | Shillong | Z | iP | 14 | 12 | 50 | | Slight distant compression. |
| 09 | Shillong | Z | iP | 14 | 46 | 13 | | Slight, distant rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|------------|-------|-------------|----------------------------|----------|-------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 09 | Shillong | Z | iP | 17 08 39 | | Slight, distant, rarefaction. |
| | Chatra | Z | eP | 17 10 00 | | Feeble. |
| 09 | Shillong | Z | eP | 21 12 02 | | Slight, distant. |
| 09 | Shillong | Z | iP | 22 08 31 | | Slight, distant, compression. |
| 10 | Shillong | Z | eP | 02 25 42 | | Slight, near. |
| 10 | Shillong | Z | iP | 04 42 20 | | Slight, distant, compression. |
| 10 | Shillong | Z | iPg iSg | 04 46 54 47 06 | 100 | Slight. |
| 10 | Shillong | Z | iP | 04 57 44 | | Slight, distant, rarefaction. |
| 10 | Shillong | Z | iP | 07 15 56 | | Slight, distant, compression. |
| 10 | Shillong | Z | iPg iSg | 10 37 36 37 56 | 170 | Slight, rarefaction. |
| 10 | Shillong | Z | iP | 12 30 30 | | Slight, distant, compression. |
| 10 | Shillong | Z | iP | 13 14 50 | | Slight, distant, rarefaction. |
| 10 | Port Blair | E | i | 15 42 20 | | Slight. |
| | Shillong | Z | iP | 15 42 43 | | Slight, distant, rarefaction |
| | Madras | E | e e e | 15 43 04 43 31 45 58 | | Feeble. |
| | Chatra | Z | eP | 15 44 03 | | Feeble. |
| 10 | Shillong | Z | iP | 20 37 06 | | Slight, distant, compression. |
| | Chatra | Z | eP | 20 38 13 | | Feeble. |
| 10 | Shillong | Z | iP | 22 14 02 | | Slight, distant, compression. |
| | Chatra | Z | iP | 22 14 28 | | Feeble, rarefaction. |
| 10 | Shillong | Z | iPg iSg | 23 28 23 28 53 | 250 | Slight. |
| | Chatra | Z | eP i | 23 30 20 31 35 | | Feeble. |
| 11 | Shillong | Z | e | 02 46 15 | | Slight, near. |
| 11 | Shillong | Z | iP | 04 28 29 | | Slight, distant, compression. |
| 11 | Shillong | Z | iPg iSg | 08 13 15 13 27 | 100 | Slight. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km | REMARKS |
|-------------------|-----------|---------|------------|----------------------|----------------|-------------------------------|
| <u>APRIL 1969</u> | | | | | | |
| 11 | Shillong | Z | 1P | 13 00 54 | | Slight, distant, rarefaction. |
| 11 | Shillong | Z | 1Pg 18r | 15 38 15 38 40 | 210 | Slight. |
| 11 | Shillong | Z | 1P | 16 13 02 | | Slight, distant, compression. |
| 11 | Shillong | Z | 1P | 19 18 23 | | Slight, distant, compression. |
| 11 | Shillong | Z | 1P | 20 51 07 | | Slight, distant, rarefaction. |
| 12 | Debra Dun | NE | e | 02 13 18 | | Tremor. |
| 12 | Shillong | Z | e | 02 16 01 | | Slight, near. |
| 12 | Shillong | Z | e | 02 18 14 | | Slight, distant. |
| 12 | Poona | Z | e | 02 19 04 | | Feeble. |
| 12 | Shillong | Z | 1P | 03 10 42 | | Slight, distant, compression. |
| 12 | Shillong | Z | e | 04 32 16 | | Tremor. |
| 12 | Shillong | Z | eP | 04 53 30 | | Slight, distant. |
| 12 | Shillong | Z | e | 07 20 15 | | Slight, distant. |
| 12 | Shillong | Z | e | 10 02 31 | | Tremor. |
| 12 | Shillong | Z | eP | 10 36 50 | | Slight, near. |
| 12 | Shillong | Z | e | 11 42 54 | | Slight, distant. |
| 12 | Shillong | Z | e | 13 07 01 | | Slight, distant. |
| 12 | Chatra | Z | 1P | 20 45 52 | | Feeble. |
| | Shillong | Z | 1P | 20 45 54 | | Slight, distant, compression. |
| 12 | Shillong | Z | e | 20 58 51 | | Tremor. |
| 12 | Shillong | Z | eP | 21 26 15 | | Slight, distant. |
| 13 | Shillong | Z | i i | 00 32 20 33 03 | | Slight, distant. |
| 13 | Chatra | Z NE | 1Pg Sg | 04 32 23 32 34 | 80 | Slight, rarefaction. |
| 13 | Shillong | Z | 1P | 04 44 44 | | Slight, distant, rarefaction. |
| 13 | Shillong | Z | 1P | 05 01 53 | | Slight, distant, rarefaction. |
| | Chatra | Z | 1P | 05 02 06 | | Feeble, distant. |
| 13 | Shillong | Z | 1P | 08 04 33 | | Slight, distant, rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. | M. | T. | Δ | REMARKS |
|---------------------|-----------|--------|-------|----|----|----|----------|------------------------------|
| | | | | h. | m. | s. | km. | |
| <u>April, 1960.</u> | | | | | | | | |
| 13 | Chatra | Z | PKP | 08 | 04 | 56 | | Slight, distant. |
| 13 | Dehra Dun | NE | e | 08 | 14 | 20 | | Feeble. |
| | | | e | | 20 | 20 | | |
| 13 | Bokaro | N | e | 08 | 18 | 48 | | Slight, distant. |
| 13 | Shillong | Z | eP | 10 | 48 | 05 | | Slight, distant. |
| 13 | Shillong | Z | iP | 11 | 58 | 49 | | Slight, distant rarefaction. |
| 13 | Shillong | Z | iP | 13 | 26 | 14 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 13 | 26 | 26 | | Feeble, distant compression. |
| 13 | Shillong | Z | eP | 17 | 03 | 58 | | Slight, near. |
| 13 | Shillong | Z | iP | 20 | 03 | 46 | | Slight, distant rarefaction. |
| 14 | Shillong | Z | iPg | 04 | 54 | 39 | 40 | Slight. |
| | | / | iSg | | 54 | 43 | | |
| 14 | Shillong | Z | iP | 06 | 32 | 24 | | Slight, distant. |
| 14 | Chatra | Z | iP | 06 | 33 | 04 | | Feeble, distant rarefaction. |
| 14 | Chatra | Z | iP | 08 | 33 | 35 | | Feeble, distant compression. |
| 14 | Dehra Dun | NE | e | 08 | 35 | 36 | | Feeble, |
| | | | e | | 38 | 01 | | |
| 14 | Chatra | Z | iP | 08 | 36 | 10 | | |
| 14 | Shillong | Z | iP | 10 | 20 | 07 | | Slight, local. |
| 14 | Shillong | Z | eP | 12 | 50 | 58 | | Slight, distant. |
| 14 | Chatra | Z | iP | 14 | 14 | 10 | | Feeble, near rarefaction. |
| 14 | Shillong | Z | eP | 15 | 39 | 07 | | Slight, near. |
| 14 | Shillong | Z | iPg | 17 | 14 | 19 | 70 | Slight. |
| | | | iSg | | 14 | 26 | | |
| 14 | Shillong | Z | iP | 19 | 33 | 57 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 19 | 33 | 50 | | Feeble, distant rarefaction. |

| DATE | STATION | COMP | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|-------------|----------------------------------|--|-----------------|--|
| <u>April, 1960.</u> | | | | | | |
| 15 | Shillong | Z | eP IS | 01 09 57 11 07 | 600 | Slight. |
| 15 | Shillong | Z | eP | 03 45 37 | | Slight, distant. |
| | Dehra Dun | NE | e | 03 47 23 | | Slight. |
| | Bombay | E N E | e e e | 03 53 54 56 22 58 34 | | Slight. |
| | | | e | 04 11 52 | | |
| 15 | Shillong | Z | eP | 04 25 49 | | Slight, distant, compression. |
| 15 | Kodaikanal | E | e | 04 36 55 | | Tremor. |
| 15 | Bombay | NE | e | 04 37 39 | | |
| 15 | Hyderabad | N | M | 04 46 56 | | Period = 17 secs. Gr. dis: = 6 μ |
| 15 | Shillong | Z | eP | 08 17 47 | | Slight, near. |
| 15 | Shillong | Z | IP | 10 14 43 | | Slight, distant, compression. |
| 15 | Shillong | Z | IP | 10 33 11 | | Slight, distant, compression. |
| 15 | Shillong | Z | eP | 10 53 08 | | Slight, distant. |
| 15 | Shillong | Z | IP | 11 12 08 | | Slight, distant, rarefaction. |
| 15 | Chatra | Z | IP | 11 12 31 | | Feeble, compression. |
| 15 | Epc: $40\frac{1}{2}^{\circ}$ N, 142° E, Near North Coast of Honshu, Japan. -R = 150 km. -H = 11 h. 39 m. 01 s. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | IP | 11 46 38 | | Slight, distant, compression. |
| | Shillong | Z | IP | 11 46 57 | 4700 | Slight, rarefaction. |
| | | E | PP PPP IS SS SSS | 48 35 49 12 53 19 56 29 57 17 | | |
| | Chatra | Z NE | IP IS | 11 47 19 54 01 | 5050 | Slight, moderate, rarefaction. Initial ground motion North and East. |
| | Fort Blair | N | eP IS | 11 47 58 55 15 | 5660 | Slight. |
| | Dehra Dun | NE N | eP PP IS SS SSS M | 11 48 00 50 01 55 18 58 51 59 53 12 06 43 | 5680 | Slight. |

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 TIME TIME CONT. PHASE G. M. T. Δ REMARKS
 h. m. s. km.

April, 1960.

| | | | | | | |
|----|---|-------------------|---|---|-------|-----------------------------|
| 12 | 1958 cont'd. | ENE NE | 1P 1 1 | 11 48 09 48 29 55 14 | | |
| | Bombay | NE | eP eS | 11 49 12 57 29 | 6750 | Slight. |
| | Bokaro | N | 1 | 11 54 33 | | Slight, distant. |
| 13 | Epic: 15° N, 166° E, New Hebrides Islands, -H = 22 h. 05 m. 10 s. (Shillong) | | | | | |
| | 15° S, 166° E, -H = 22 h. 05 m. 06 s. (U.S.C.G.S.) Mag: 6.7 (Ms) | | | | | |
| | Port Blair | N | 1P 1P | 22 17 06 28 54 | 3550 | |
| | Shillong | Z E | 1P 1P PPT SKS IS ScS SS PFS SS SSS IC IR | 22 17 51 20 45 22 35 27 42 27 45 27 56 28 40 29 02 35 20 36 41 40 06 44 02 | 3110 | Compression. |
| | Calcutta | A | 1 1 1 | 22 17 48 25 35 26 05 | | Initial ground motion west. |
| | Chatra | Z NE | 1P 1 | 22 17 54 26 26 | | |
| | Bokaro | E W E NE | 1P eP 1 1SKS | 22 17 57 21 19 25 21 | 3610 | |
| | Madras | W | eP 1P PPT SKS SKKS eS ScS IC PFS SS SSS | 22 18 08 21 39 23 39 26 36 28 47 29 00 29 03 30 06 30 34 35 03 36 35 | 10000 | |
| | Kodaikanal | E | e | 22 18 15 | | Tremor. |

| DATE | STATION | COMP | PHASE | G. | M. | T. | Δ | REMARKS |
|--------------------------------|---------------------|------|-------|----|----|----|----------|--|
| | | | | h. | m. | s. | km. | |
| ----- April, 1960. ----- | | | | | | | | |
| 15 | Hyderabad contd. | E | eP | 22 | 18 | 19 | 10110 | |
| | | | ISKS | | 28 | 50 | | |
| | | | PS | | 29 | 21 | | |
| | | | PPS | | 29 | 58 | | |
| | | | SS | | 34 | 28 | | |
| | | E | LR | | 45 | 13 | | |
| | | N | LR | | 45 | 53 | | |
| | | E | M | | 53 | 27 | | Period = 15 secs. Gr. dis: = 3 μ . |
| | | N | M | | 53 | 28 | | Period = 18 secs. Gr. dis: = 6 μ . |
| | Agra | E | eP | 22 | 18 | 28 | 10390 | |
| | | | ISKS | | 29 | 03 | | |
| | Dehra Dun | NE | IP | 22 | 18 | 37 | 10670 | |
| | | N | IP | | 21 | 36 | | |
| | | | ISKS | | 29 | 15 | | |
| | | | SS | | 34 | 54 | | |
| | | | SSS | | 38 | 09 | | |
| | | | M | | 53 | 01 | | |
| | Poona | Z | IP | 22 | 18 | 39 | 10670 | Compression, initial ground motion North and West. |
| | | N | ISKS | | 29 | 15 | | |
| | Bombay | E | eP | 22 | 18 | 41 | 10830 | |
| | | | e | | 22 | 43 | | |
| | | NE | eSKS | | 29 | 25 | | |
| 15 | Shillong | Z | IPg | 22 | 53 | 26 | 150 | Slight. |
| | | | ISg | | 53 | 45 | | |
| 16 | Dehra Dun | NE | e | 09 | 12 | 13 | | Feeble. |
| | | | e | | 13 | 02 | | |
| 16 | Chatra | Z | IPg | 12 | 19 | 18 | 90 | |
| | | NE | IP | 19 | 29 | 21 | | |
| | | | IS | | 19 | 33 | | |
| | Calcutta | NE | eP | 12 | 20 | 52 | 230 | Slight, |
| | | | eS | | 21 | 19 | | |
| | Bokaro | N | eP | 12 | 20 | 55 | | Slight, near. |
| | | | e | | 21 | 27 | | |
| | Poona | Z | eP | 12 | 22 | 20 | | Slight, compression, initial ground motion West. |
| | Bombay | NE | e | 12 | 26 | 51 | | Slight, near. |
| 16 | Shillong | Z | eP | 15 | 04 | 56 | | Slight, near. |
| 16 | Shillong | Z | IP | 15 | 21 | 55 | 450 | Slight, compression. |
| | | | eS | | 22 | 47 | | |
| | | | SSS | | 23 | 07 | | |
| | Chatra | Z | P | 15 | 22 | 44 | | Feeble. |
| 17 | Shillong | Z | IP | 04 | 48 | 41 | | Slight, distant, compression. |

| DATE | STATION | COMP. | PHASE | G. | M. | S. | Δ km. | REMARKS |
|---------------------|-----------|----------|--------------|----|----|----|-----------------|-------------------------------|
| | | | | h. | m. | s. | | |
| <u>April, 1960.</u> | | | | | | | | |
| 17 | Shillong | Z | iP | 10 | 40 | 05 | | Slight, distant rarefaction. |
| 17 | Shillong | Z | eP | 11 | 13 | 41 | | Slight, distant. |
| 17 | Dehra Dun | NE | e | 12 | 20 | 53 | | Feeble. |
| 17 | Shillong | Z | eP | 16 | 50 | 06 | | Slight, near. |
| 18 | Shillong | Z | eP | 03 | 00 | 51 | | Slight, near. |
| 18 | Shillong | Z | iP | 05 | 02 | 08 | | Slight, distant. compression. |
| 18 | Chatra | Z NE | iP S | 08 | 14 | 55 | 4534 | Feeble, rarefaction. |
| | | | | | 21 | 07 | | |
| 18 | Shillong | Z | iP | 15 | 04 | 28 | | Slight, distant rarefaction. |
| 18 | Shillong | Z | iP | 17 | 07 | 30 | | Slight, distant rarefaction. |
| 19 | Shillong | Z | iP | 00 | 15 | 53 | | Slight, distant rarefaction. |
| 19 | Shillong | Z | iP | 01 | 22 | 33 | | Slight, distant |
| 19 | Shillong | Z | iP | 01 | 29 | 47 | | Slight, near. |
| 19 | Shillong | Z | iP | 03 | 04 | 00 | | Slight, distant. |
| 19 | Shillong | Z | eP | 04 | 41 | 13 | | Slight, distant. |
| 19 | Shillong | Z | iP | 10 | 29 | 56 | | Slight, distant. |
| 19 | Dehra Dun | NE | e | 11 | 47 | 22 | | Tremor |
| 19 | Shillong | Z | eP i | 16 | 15 | 42 | | Slight, near. |
| | | | | | 16 | 05 | | |
| 19 | Chatra | Z ZNE | iP S | 18 | 28 | 18 | 650 | Slight, rarefaction. |
| | | | | | 29 | 26 | | |
| 19 | Shillong | Z | iP | 18 | 23 | 05 | | Slight, distant rarefaction. |
| | Dehra Dun | NE | e | 18 | 30 | 03 | | Tremor. |
| 19 | Shillong | Z | iP | 18 | 37 | 32 | | Slight, distant compression. |
| 19 | Chatra | Z | iP | 19 | 37 | 44 | | Feeble, compression. |
| 19 | Colombo | E | eP L M | 23 | 32 | 00 | | |
| | | | | | 38 | 00 | | |
| | | | | | 41 | 00 | | Amp: = 0.2 mm. |

| DATE | STATION | COMP | PHASE | G. M. T. | Δ | REMARKS |
|---------------------|--|---------|---|--|----------|-------------------------------|
| | | | | hr m. s. | km. | |
| <u>April, 1960.</u> | | | | | | |
| 19 | Shillong | Z | 1P | 23 34 41 | | Slight, distant, compression. |
| | contd. | | | | | |
| 19 | Chatra | Z NE | 1P S | 23 34 56 39 32 | 2990 | Feeble, compression. |
| 20 | Shillong | Z | 1Pg 1Sg | 14 53 31 53 53 | 190 | Slight. |
| 20 | Chatra | Z | 1P 1 | 15 46 54 47 02 | | Feeble, compression. |
| 20 | Shillong | Z | 1P | 15 47 03 | | Slight, distant, rarefaction. |
| 20 | Epc: 37° N, 71° E, Hindukush. -h = 200 km, ca. Felt at Warsak., -H = 19 h. 23 m. 04 s. (U.S.C.G.S) | | | | | |
| | Dehra Dun | NE N | eP PPV LQ 1S SS SSS Sg,M | 19 25 10 25 20 26 33 26 41 26 52 27 04 27 31 | 880 | Slight. |
| | Chatra | Z NE | 1P S | 19 26 54 29 52 | 1760 | Slight, rarefaction. |
| | Poona | Z | 1P | 19 27 11 | | Feeble, compression. |
| | Shillong | Z | 1P PP PPV 1S LQ SS SSS LR M | 19 27 38 27 58 28 08 31 25 31 34 31 54 32 08 32 29 34 10 | 2230 | Slight, rarefaction. |
| | Bombay | N NE | e e | 19 27 55 30 27 | | Slight. |
| 20 | Dehra Dun | NE | e | 21 03 31 | | Tremor. |
| | Chatra | Z | 1P | 21 03 40 | | Very feeble, compression. |
| | Shillong | Z | 1P | 21 04 23 | | Slight, distant, compression |
| 20 | Shillong | Z | eP | 21 46 01 | | Slight, distant. |
| 21 | Shillong | Z | 1P | 02 36 19 | | Slight, distant. |
| | Chatra | Z | eP | 02 36 27 | | Feeble. |
| 21 | Shillong | Z | 1Pg 1Sg | 22 25 52 26 24 | 280 | Slight. |
| | Chatra | Z | eP | 22 26 51 | | Feeble. |

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ | REMARKS |
|---------------------|------------|-------|-------------|----------------------------|-----|-------------------------------|
| | | | | h. m. s. | km. | |
| <u>April, 1960.</u> | | | | | | |
| 21 | Shillong | Z | iP | 22 28 03 | | Slight, near. |
| 22 | Shillong | Z | eP | 00 18 08 | | Slight, distant. |
| 22 | Shillong | Z | iPg iSg | 09 33 16 33 30 | 120 | Slight. |
| 22 | Shillong | Z | ePg eSg | 11 07 07 08 03 | 470 | Slight. |
| 22 | Shillong | Z | iP | 11 54 59 | | Slight, distant. |
| 22 | Shillong | Z | eP | 16 20 09 | | Slight, distant. |
| 22 | Chatra | Z | eP | 16 20 36 | | Very feeble. |
| 22 | Shillong | Z | eP | 18 53 50 | | Slight, distant. |
| 22 | Chatra | Z | eP | 18 54 29 | | Very feeble. |
| 22 | Chatra | Z | eP | 20 44 33 | | feeble, distant. |
| | Bombay | E | e e e | 20 45 59 51 27 55 48 | | Slight. |
| 22 | Port Blair | E | iPg iSg | 22 11 22 11 17 | 40 | Slight. |
| 23 | Shillong | Z | eP | 04 09 41 | | Slight, near. |
| 23 | Shillong | Z | iP | 06 33 23 | | Slight, distant, compression. |
| 23 | Shillong | Z | iP | 10 29 08 | | Slight, compression. |
| 23 | Shillong | Z | iP | 13 06 15 | | Slight, distant, compression. |
| 23 | Shillong | Z | eP | 13 13 11 | | Slight, distant. |
| | Chatra | Z | eP | 13 13 24 | | Feeble. |
| | Dehra Dun | NE | e e | 13 13 39 17 41 | | Feeble. |
| 23 | Shillong | Z | iP | 18 09 27 | | Slight, distant, compression. |
| | Chatra | Z | iP | 18 09 54 | | Very feeble, compression. |
| 23 | Shillong | Z | iP | 21 17 13 | | Slight, distant, rarefaction. |
| 24 | Shillong | Z | iP | 00 09 05 | | Slight, distant, compression. |
| 24 | Chatra | Z | iP | 00 09 18 | | Very feeble, compression. |
| 24 | Chatra | Z | iPg | 01 33 39 | | Mild, near, rarefaction. |

| DATE | STATION | COMP. PHASE | G. M. T. | Δ | REMARKS |
|------|---------|-------------|----------|-----|---------|
| | | | h. m. s. | km. | |

April, 1960.

24 Epc: 6° S, 111° E, (Java Sea), -h = 600 km. ca.
 -M = 05 h. 22 m. 40 s. (Shillong).
 6° S, 113° E, -h = 600 km.
 -H = 05 h. 22 m. 25 s. (U.S.C.G.S.)

| | | | | | | |
|------------|----|-----|----------|-------|--|-------|
| Port Blair | N | IP | 05 27 24 | 2890 | Slight. | |
| | | IS | 31 14 | | | |
| Colombo | E | P | 05 28 41 | 3890 | | |
| | | S | 33 33 | | | |
| | | I | 36 46 | | | |
| | | M | 37 21 | | | |
| | | | | | Amp: = 1.9 m.m. | |
| Shillong | E | IP | 05 28 57 | 4030 | Moderate. | |
| | | PP | 30 11 | | | |
| | | PPP | 30 28 | | | |
| | | pP | 30 47 | | | |
| | | sP | 31 45 | | | |
| | | IS | 33 57 | | | |
| | | SoP | 35 31 | | | |
| | | SS | 35 45 | | | |
| | | SSS | 36 07 | | | |
| | | sS | 37 05 | | | |
| | | SoS | 39 19 | | | |
| Tocklai | E | IP | 05 28 57 | 4110 | | |
| | | IS | 34 02 | | | |
| Calcutta | E | eP | 05 28 57 | 4130 | | |
| | | IS | 34 04 | | | |
| Madras | E | IP | 05 28 58 | 41-70 | Moderate, ground motion East. | |
| | | pP | 30 41 | | | |
| | | i | 30 54 | | | |
| | | IS | 34 06 | | | |
| | | i | 34 29 | | | |
| | | sS | 37 08 | | | |
| Bokaro | N | IP | 05 29 13 | 4290 | Moderate, initial ground motion South and East. | |
| | | pP | 30 57 | | | |
| | | i | 31 06 | | | |
| | | sP | 32 04 | | | |
| | | i | 33 32 | | | |
| | | IS | 34 27 | | | |
| | | sS | 37 33 | | | |
| Hyderabad | NE | IP | 05 29 24 | 4400 | Moderate, initial ground motion East. and South. | |
| | | PP | 30 45 | | | |
| | | pP | 31 08 | | | |
| | | sP | 32 15 | | | |
| | E | IS | 34 56 | | | |
| | | SS | 37 12 | | | |
| | | SSS | 37 59 | | | |
| | N | LR | 39 03 | | | |
| | | E | LR | | | 39 07 |
| | | N | M | | | 41 18 |

Period = 9 secs.
 Gr. dis: = 6 μ.

 DATE STATION COUNT TIME G. M. T. Δ REMARKS
 h. m. s. km.

April 1960.

| | | | | | |
|----|------------------|----|---|----------|--|
| 24 | Chatra contd. | NE | e | 03 29 25 | Slight, rarefaction, initial ground motion South and East. |
| | | | | 31 15 | |
| | Kodalkanal | E | e | 03 29 41 | |
| | | | | 34 14 | |
| | | | | 35 11 | |
| | | | | 35 26 | |
| | | | | 36 25 | |
| | | | | 37 37 | |
| | Poona | W | e | 03 30 00 | 5050 Moderate, rarefaction, initial ground motion South, East. |
| | | | | 33 58 | |
| | Bombay | N | e | 03 30 00 | 5180 Moderate. |
| | | | | 31 39 | |
| | | NE | e | 36 13 | |
| | | | | 38 43 | |
| | | | | 39 56 | |
| | | E | e | 39 25 | |
| | | | | 39 37 | |
| | Sehore | W | e | 03 31 03 | Distant. |
| | | | | 35 58 | |
| 24 | Chatra | E | e | 03 34 57 | Moderate. |
| | | | | 36 12 | |

24 Epc: 28° N, 544° E, Southern Iran.,
 -H = 12 h. 14 m. 30 s. (Shillong)
 28° N, 547° E, -H = 12 h. 14 m. 26 s. (U.S.C.G.S.)
 3000 dead, many injured and major property damage at Gerash and Lar.

| | | | | | |
|--|-----------|----|---|----------|---|
| | Bombay | NE | e | 12 18 52 | 2170 Slight. |
| | | | | 22 27 | |
| | | | | 22 53 | |
| | Poona | E | e | 12 19 05 | 2270 Slight, compression. |
| | | | | 22 49 | |
| | Dehra Dun | NE | e | 12 19 16 | 2320 Slight. |
| | | | | 19 52 | |
| | | N | e | 23 05 | |
| | | | | 23 28 | |
| | | | | 23 42 | |
| | | E | e | 24 04 | |
| | | | | 25 39 | |
| | Hyderabad | NE | e | 12 19 43 | 2910 Slight, initial ground motion East and South. |
| | | | | 23 03 | |
| | | E | e | 24 12 | |
| | | | | 25 03 | |
| | | | | 25 33 | |
| | | E | e | 26 15 | |
| | | | | 26 24 | |
| | | M | e | 28 45 | |
| | | | | 29 21 | |

Period = 20 secs.
 Gr. dis: = 10 μ
 Period = 13 secs.
 Gr. dis: = 15 μ

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|------------------|---------|--|---|-----------------|----------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 24 | Madras contd. | E | iP PPP iS SS SSS i LR M | 12 20 24 21 29 25 10 26 36 26 54 27 18 27 43 30 06 | 3140 | Slight. |
| | Bokaro | N | eP eS | 12 20 24 25 43 | 3680 | Moderate. |
| | Kodaikanal | E | e | 12 20 27 | | Tremor. |
| | Chatra | Z NE | iP S | 12 20 33 25 52 | 3690 | Moderate. |
| | Calcutta | E | eP e | 12 20 52 26 07 | | |
| | Shillong | Z E | iP PP PPP eS LQ SS SSS LR ScS M | 12 21 07 22 23 22 41 26 29 28 38 28 38 29 38 30 18 31 24 33 12 | 3720 | Moderate. |
| | Port Blair | N | iP iS | 12 22 00 28 10 | 4500 | Slight. |
| | Colombo | E | P L M | 12 26 06 33 06 34 35 | | Amp. = 0.5 m.m. |
| 24 | Shillong | Z | iP | 15 10 48 | | Slight, distant, rarefaction. |
| 25 25 | Shillong | Z | iP | 00 22 26 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 00 22 49 | | Feeble, compression. |
| 25 | Shillong | Z | iP | 04 09 00 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 04 09 21 | | Feeble, compression. |
| 25 | Shillong | Z | eP | 04 31 09 | | Slight, distant. |
| 25 | Shillong | Z | eP | 08 15 12 | | Slight, distant. |
| 25 | Shillong | Z | iP | 12 55 41 | | Slight, distant, rarefaction. |
| 25 | Shillong | Z | iP | 15 06 13 | | Slight, distant, rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. h. | M. m. | T. s. | △ km. | REMARKS |
|---------------------|-----------|---------|------------|----------|----------|----------|----------|---|
| <u>April, 1960.</u> | | | | | | | | |
| | Chatra | Z | iP | 15 | 06 | 21 | | Very feeble, rarefaction. |
| 25 | Shillong | Z | eP iSg | 15 | 55 56 | 43 13 | 250 | Slight. |
| 25 | Chatra | Z | iP | 16 | 37 | 53 | | Mild, near. |
| 25 | Shillong | Z | iP | 16 | 38 | 22 | | Slight, distant compression. |
| 25 | Shillong | Z | eP iSg | 16 | 45 45 | 13 19 | 50 | Slight. |
| 25 | Shillong | Z | iP | 17 | 38 | 07 | | Slight, distant rarefaction. |
| 26 | Chatra | Z | eP | 06 | 58 | 38 | | Feeble. |
| 26 | Shillong | Z | iP | 15 | 00 | 07 | | Slight, distant compression. |
| 26 | Shillong | Z | eP | 15 | 01 | 31 | | Slight, local. |
| 26 | Shillong | Z | eP | 15 | 40 | 13 | | Slight, local. |
| 26 | Chatra | Z NE | iPg Sg | 15 | 51 52 | 58 06 | 50 | Slight, compression initial ground motion South and East. |
| 26 | Shillong | Z | eP | 15 | 53 | 11 | | Slight, near. |
| 26 | Shillong | Z | eP | 20 | 25 | 00 | | Slight, distant. |
| 26 | Chatra | Z | eP | 20 | 25 | 40 | | Very feeble. |
| 26 | Shillong | Z | eP | 21 | 30 | 53 | | Slight, distant. |
| 26 | Chatra | Z | iP | 21 | 31 | 17 | | Feeble, compression |
| 26 | Shillong | Z | iPg iSg | 23 | 30 30 | 07 53 | 400 | Slight. |
| 26 | Chatra | Z | iP | 23 | 31 | 07 | | Very feeble. compression. |
| 27 | Shillong | Z | eP iSg | 03 | 23 23 | 02 13 | 50 | Slight. |
| 27 | Shillong | Z | eP | 10 | 29 | 12 | | Slight, distant. |
| 27 | Chatra | Z NE | eP S | 10 | 57 59 | 31 32 | 1180 | Slight. |
| 27 | Shillong | Z | eP | 10 | 57 | 37 | | Slight, distant. |
| 27 | Dehra Dun | NE | e | 11 | 01 | 40 | | Tremor. |
| 27 | Calcutta | NE | e | 11 | 07 | 13 | | Surface waves. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|-----------|-------|------------|----------------------|-----------------|----------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 27 | Shillong | Z | eP | 11 16 02 | | Slight, distant. |
| 27 | Shillong | Z | 1P | 12 22 01 | | Slight near. |
| 27 | Shillong | Z | eP | 12 25 26 | | Slight, local. |
| 27 | Shillong | Z | 1Pg 1Sg | 12 33 33 33 42 | 70 | Slight. |
| 27 | Shillong | Z | eP | 17 21 37 | | Slight, distant. |
| 27 | Dehra Dun | NE | e | 17 32 49 | | Tremor. |
| 27 | Shillong | Z | eP | 21 14 05 | | Slight, distant. |
| 27 | Chatra | Z | 1P | 21 14 31 | | Very feeble, rarefaction. |
| 27 | Shillong | Z | eP | 22 01 35 | | Slight, distant. |
| 27 | Shillong | Z | eP | 22 4 33 | | Slight, distant. |
| 27 | Chatra | Z | 1P | 22 50 15 | | Slight, distant, rarefaction. |
| 27 | Shillong | Z | 1P | 23 35 07 | | Slight, distant, rarefaction. |
| 28 | Shillong | Z | 1P | | | Slight, distant, rarefaction. |
| 28 | Shillong | Z | 1P | 03 37 23 | | Slight, distant, rarefaction. |
| 28 | Shillong | Z | eP | 05 18 08 | | Slight, distant. |
| 28 | Chatra | Z | eP | 05 18 37 | | Feeble, distant. |
| 28 | Shillong | Z | 1Pg 1Sg | 10 28 07 28 30 | 200 | Slight. |
| 28 | Chatra | Z | 1P | 12 11 03 | | Feeble, compression. |
| 28 | Chatra | Z | 1P | 13 15 45 | | Feeble, rarefaction. |
| 28 | Shillong | Z | e | 14 07 47 | | Slight, near. |
| 28 | Chatra | Z | 1P | 16 42 31 | | Feeble, compression. |
| 29 | Chatra | Z | 1P | 02 34 38 | | Feeble, compression. |
| 29 | Shillong | Z | eP | 02 37 42 | | Slight, distant. |

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| DATE | LOCATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|--|--------------|----------------|----------------------------|-----------------|----------------------------------|
| <u>April, 1960.</u> | | | | | | |
| 28 | Chatra | Z | 1P | 04 02 01 | | Feeble, compression. |
| 28 | Shillong | Z | 1P | 04 02 04 | | Slight, compression, distant. |
| 29 | Shillong | Z | 1P | 04 49 31 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | eP | 07 14 38 | | Slight, local. |
| 29 | Shillong | Z | 1P | 08 01 23 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | eP | 08 41 51 | | Slight, local. |
| 29 | Shillong | Z | 1P | 09 01 57 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | 1P | 09 23 34 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | 1P | 10 00 51 | | Slight, distant, compression. |
| | Chatra | Z NE | 1P eP | 10 01 29 07 48 | 4650 | Feeble, compression. |
| 29 | Shillong | Z | 1P | 10 05 05 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | 1P | 10 08 59 | | Slight, distant, rarefaction. |
| 29 | Epc: 0°, 122° N, Celebes. - H = 10 h. 06 m. 14 s. (USCGS). | | | | | |
| | Shillong | Z | 1P | 10 15 38 | | Slight, distant, compression. |
| | Chatra | Z NE | 1P eP | 10 14 15 09 33 | 4690 | Slight. |
| | Bombay | Z NE S | eP eP eP | 10 15 24 22 42 23 00 | 5690 | Slight. |
| | Dahra Dun | NE | e e | 10 15 43 22 37 | | Feeble. |
| 29 | Shillong | Z | 1P | 11 38 13 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | 1P | 13 25 59 | | Slight, distant, compression. |
| 29 | Epc: 0°, 122° N, Celebes. - H = 13 h. 35 m. 17 s (USCGS). | | | | | |
| | Fort Blair | Z | e e | 13 30 33 46 59 | | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|--------------|-----------------------------------|---|-----------------|--|
| <u>April, 1960.</u> | | | | | | |
| 29 | Shillong | Z | iP | 13 40 41 | | Slight, distant, compression. |
| | Chatra | Z NE | iP S | 13 41 20 47 36 | 4600 | Slight. |
| | Madras | E | eP PP PPP eS PPS | 13 41 22 43 06 43 36 47 55 48 10 | 4890 | Slight. |
| | Agra | ZNE | iP PP iS PS | 13 42 11 44 11 49 19 49 29 | 5510 | Slight, compression. Initial ground motion North and West. |
| | Poona | Z | iP | 13 42 19 | | Feeble. |
| | Bombay | E NE E | eP eS PPS e | 13 42 28 49 46 50 02 53 46 | 5690 | Slight. |
| | Dehra Dun | NE | e e | 13 42 33 50 01 | | Feeble. |
| 29 | Shillong | Z | iP | 14 54 01 | | Slight, distant rarefaction. |
| 29 | Chatra | Z | eP | 14 54 36 | | Feeble. |
| 29 | Shillong | Z | iP | 19 03 08 | | Slight, distant rarefaction. |
| 29 | Chatra | Z | iP | 19 03 45 | | Slight, compression. |
| 29 | Shillong | Z | iP | 19 20 23 | | Slight, distant rarefaction. |
| 29 | Chatra | Z | eP | 19 20 59 | | Feeble, compression. |
| 29 | Shillong | Z | eP | 19 35 28 | | Slight, distant. |
| 29 | Epc: 0° , 124° E, $-h = 100$ km.ca. -H = 19 h. 32 m. 13 s. (Shillong) 0° , 122° E. -H = 19 h. 32 m. 12 s. (USCGS). | | | | | |
| | Port Blair | N | iP PP iS sS | 19 38 39 39 09 43 38 44 30 | 3520 | Slight. |
| | Toeklai | E | iP | 19 39 34 | | Slight, distant compression. |
| | Shillong | ZE E | iP pP PP PPP iS sS | 19 39 39 40 11 41 13 41 43 45 37 46 27 | 4490 | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|---------------------|------------|------------------------|---|--|-----------------|--|
| <u>April, 1960.</u> | | | | | | |
| 29 | Calcutta | | iP | | | |
| | Colombo | E | P PP e I M | 19 40 07 41 50 46 21 53 03 59 35 | | Amp: = 0.2 mm. |
| | Bokaro | N | iP eS | 19 40 11 46 28 | 4810 | Slight, distant. |
| | Chatra | Z | iP | 19 40 16 | 4900 | Moderate, compression initial ground motion North and West. |
| | Madras | E | iP i pP PP iS PS PPS S SS LQ SSS LR M | 19 40 18 40 38 40 48 42 20 46 41 46 49 46 57 47 31 49 42 50 10 50 28 52 06 55 37 | 4960 | Moderate, initial ground motion West. |
| | Kodaikanal | E | iP PPP iS SS LQ LR M | 19 40 34 43 04 47 13 50 31 51 16 53 24 57 16 | 5210 | Slight. Period = 20 secs. Gr. dis : = 8 u |
| | Hyderabad | EN N E N E | iP PP PPP iS PS SS LR LR M M | 19 40 39 42 28 43 17 47 24 47 36 50 52 53 59 54 00 57 53 58 15 | 5310 | Moderate, Initial ground motion West and North. Period = 23 secs. Gr. dis : = 15 μ . Period = 10 μ . |
| | Agra | ZNE | iP i PP i iS e i | 19 41 09 41 17 43 09 43 46 48 08 48 25 52 37 | 5550 | Moderate, compression initial ground motion North and West. |

| STATION | COMP. | HAZD | G. | H. | T. | A | REMARKS |
|---------|-------|------|----|----|----|-----|---------|
| | | | h. | m. | s. | ft. | |

April, 1960.

| | | | | | | | |
|-------|---|----|----|----|----|------|---|
| Poona | N | 17 | 19 | 41 | 15 | 5920 | Moderate, compression initial ground motion North and West. |
| | | PP | | 43 | 18 | | |
| | | SP | | 44 | 11 | | |
| | | IS | | 49 | 33 | | |
| | | MS | | 48 | 45 | | |
| | | 53 | 45 | | | | |

| | | | | | | | |
|-----------|----|---------|----|----|----|------|---------|
| Madrz Ind | NS | eP | 19 | 41 | 20 | 5900 | Slight. |
| | | PP | | 44 | 18 | | |
| | | IS | | 48 | 32 | | |
| | | SS | | 52 | 12 | | |
| | | SSS, Id | | 53 | 44 | | |
| | | IR | | 56 | 18 | | |
| | N | 20 | 00 | 57 | | | |

| | | | | | | | |
|--------|----|----|----|----|----|------|--|
| Bombay | NS | eP | 19 | 41 | 21 | 5850 | |
| | | PP | | 43 | 22 | | |
| | | MS | | 48 | 41 | | |

25 Apr: 0^o, 121^o E, Celebes.
-H = 20 h. 44 m. 27 s. (U.S.-G.S.).

| | | | | | | | |
|------------|---|----|----|----|----|------|--|
| Port Blair | N | 1 | 20 | 50 | 54 | 5100 | |
| | | 43 | | 55 | 57 | | |

| | | | | | | | |
|---------|---|----|----|----|----|--|-----------------------------|
| Tocklai | E | 17 | 20 | 51 | 48 | | Slight, distant surface. |
|---------|---|----|----|----|----|--|-----------------------------|

| | | | | | | | |
|----------|----|----|----|----|----|------|---------------------------------|
| Shillong | NS | 17 | 20 | 51 | 51 | 4570 | Slight, distant compression. |
| | | 13 | | 08 | 05 | | |

| | | | | | | | |
|-----------|---|---|----|----|----|--|---------|
| Kodakamal | N | e | 20 | 52 | 16 | | Tremor. |
|-----------|---|---|----|----|----|--|---------|

| | | | | | | | |
|---------|---|---|----|----|----|--|----------------|
| Colombo | N | | 20 | 52 | 21 | | |
| | | | | 55 | 45 | | |
| | | | 21 | 03 | 00 | | |
| | | N | | 11 | 50 | | Japs = 6.1 km. |

| | | | | | | | |
|--------|----|----|----|----|----|------|--|
| Chatra | NS | 17 | 20 | 52 | 23 | 4320 | Slight/distant compression, initial ground motion North and West. |
| | | 3 | | 58 | 30 | | |

| | | | | | | | |
|--------|---|----|----|----|----|------|---------|
| Madras | S | 17 | 20 | 52 | 23 | 4320 | Slight. |
| | | 1 | | 52 | 51 | | |
| | | PP | | 54 | 10 | | |
| | | SP | | 54 | 44 | | |
| | | IS | | 59 | 03 | | |
| | | IS | | 59 | 10 | | |
| | | MS | | 59 | 14 | | |
| | | 21 | 02 | 24 | | | |

| | | | | | | | |
|-----|----|----|----|----|----|------|--|
| GFA | NS | 17 | 20 | 53 | 21 | 5120 | Slight, compression. Initial ground motion North and West. |
| | | 1 | | 53 | 23 | | |
| | | PP | | 55 | 21 | | |
| | NE | 1 | | 55 | 58 | | |
| | | IS | 21 | 00 | 30 | | |
| | | IS | | 00 | 40 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|--|---------|---|--|-----------------|--|
| <u>April, 1960.</u> | | | | | | |
| 29 | Poona contd. | Z | iP | 20 53 28 | | Slight, compression, Initial ground motion West. |
| | Bombay | E NE | eP eS | 20 53 37 21 01 00 | 5780 | Slight. |
| | Dehra Dun | NE | e e | 20 53 41 21 01 07 | | Feeble. |
| 29 | Shillong | Z | iP | 21 50 54 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | iP | 22 22 57 | | Slight, distant, rarefaction. |
| 29 | Shillong | Z | iP eS | 23 31 54 32 30 | 300 | Slight. |
| 29 | Chatra | Z | eP S | 23 32 51 34 12 | 770 | Slight. |
| 30 | Shillong | Z | iP | 00 05 09 | | Slight, distant, compression. |
| 30 | Shillong | Z | iP | 00 27 35 | | Slight, distant, compression. |
| 30 | Chatra | Z | iP | 00 28 12 | | Feeble, rarefaction. |
| 30 | Shillong | Z | eP | 02 04 23 | | Slight, local. |
| 30 | Shillong | Z | iP | 02 28 12 | | Slight, distant, rarefaction. |
| 30 | Bokaro | Z | i | 04 07 09 | | Slight. |
| 30 | Epc: 0° N, 122° E, Celebes, -H = 04 h. 01 m. 32 s. (USCGS) 2° S, 124° E, -H = 04 h. 01 m. 30 s. (Shillong) | | | | | |
| | Fort Blair | N | iP iS | 04 07 53 12 55 | 3390 | Slight. |
| | Tocklai | E | iP | 04 08 53 | | Slight, distant, rarefaction. |
| | Shillong | E | iP pP sP PP PPP S sS SS SSS | 04 08 59 09 19 09 31 10 27 11 00 14 52 15 28 17 36 18 10 | 4530 | Slight. |
| | Chatra | Z NE | iP S | 04 09 53 15 54 | 4680 | Slight. |
| | Madras | E | iP e PP PeP | 04 09 37 09 56 11 18 11 53 | 4780 | Slight, initial ground motion West. |

| STATION | PHASE | G. M. T. | △ | REMARKS |
|---------------------|-------|---|---|---|
| | | h. m. s. | Km. | |
| <u>April, 1960.</u> | | | | |
| 30 Madras contd. | E | eS PS PPS e LQ IR M | 04 16 03 16 12 16 18 16 53 19 28 22 11 25 14 | |
| Kodaikanal | E | e | 04 09 51 | Tremor. |
| Hyderabad | E | e ^P PP IS PPS SS LQ LR LR M M | 04 10 00 11 52 16 45 17 08 20 21 21 05 23 36 23 48 26 49 27 48 | 5110 Slight. Period = 22 secs. Gr. dis. = 0 μ Period = 15 secs. Gr. dis. = 5 μ |
| Agra | NE | iP i PP i IS PS i i | 04 10 27 10 45 12 15 12 35 17 34 17 42 18 52 20 00 | 5490 Slight, initial ground motion North and West. |
| Poona | Z | iP IS | 04 10 34 17 45 | 5550 Slight, compression initial ground motion North and West. |
| Bombay | E | e ^P e PP PPP i eS PPS | 04 10 41 10 58 13 00 14 01 16 32 18 00 18 18 | 5700 Slight. |
| Dehra Dun | NE | e ^P e | 04 10 52 18 04 | Slight. |
| Bokaro | N | e | 04 15 46 | Slight. |
| 30 Shillong | Z | e ^P | 08 43 38 | Slight, local. |
| 30 Shillong | Z | iP | 08 48 29 | Slight, distant, rarefaction. |
| 30 Chatra | Z | e ^P | 08 49 02 | Feeble. |
| 30 Shillong | Z | iP | 10 18 49 | Slight, distant, rarefaction. |
| 30 Chatra | Z | e ^P | 10 20 24 | Very feeble, distant. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---------------------|---|-------|-------|----------------------|-----------------|---|
| <u>April, 1960.</u> | | | | | | |
| 30 | Shillong | Z | iP | 13 18 53 | | Slight, distant, rarefaction. |
| 30 | Chatra | Z | eP | 13 19 29 | | Very feeble, distant. |
| 30 | Shillong | Z | iP | 14 28 29 | | Slight, distant, compression. |
| 30 | Chatra | Z | eP | 14 28 57 | | Very feeble, distant. |
| 30 | Shillong | Z | iP | 15 04 29 | | Slight, distant, compression. |
| 30 | Shillong | Z | iP | 17 08 28 | | Slight, distant, rarefaction. |
| 30 | Shillong | Z | iP | 17 16 07 | | Slight, distant, rarefaction. |
| 30 | Chatra | Z | iP | 19 34 56 | | Slight, distant, rarefaction. |
| 30 | Shillong | Z | iP | 22 00 49 | | Slight, distant, compression. |
| 30 | Chatra | Z | iP | 22 01 29 | | Very feeble, compression. |
| 30 | Epc: 6° S, 124° E, Banda Sea, -H = 22h. 10 m. 07 s., -h = 600 km.ca. (U.S.C.G.S) | | | | | |
| | Shillong | Z | iP | 22 17 28 | | Slight, near. |
| | Madras | E | e | 22 17 53 | | Feeble. |
| | Chatra | Z | iP | 22 18 02 | 4560 | Slight, initial ground motion North and West. |
| | | NE | S | 24 16 | | |
| | Agra | ZNE | iP | 22 18 50 | 5280 | Slight, compression, initial ground motion North and West. |
| | | Z | PP | 20 48 | | |
| | | ZNE | iS | 25 45 | | |
| | | NE | i | 27 53 | | |
| | Bombay | E | eP | 22 18 56 | 5410 | Slight. |
| | | | PP | 21 16 | | |
| | | | eS | 25 58 | | |
| | | | ScS | 27 42 | | |
| | Dehra Dun | NE | eP | 22 19 20 | 5470 | Feeble. |
| | | | eS | 26 26 | | |
| 30 | Shillong | Z | iP | 23 16 36 | | Slight, distant, compression. |
| 30 | Chatra | Z | iP | 23 17 11 | | Feeble, distant, compression. |

Earthquake Reports
 (Non-Instrumental)

The following is the list of earthquakes that are reported by voluntary observers from different stations during the month of April 1960.

| Place | Date | Time in G. M. T. | No. of shock. | Duration of shock. | Intensity in F.R. Scale | Remarks, |
|----------|---------|---------------------|------------------|-----------------------|----------------------------|----------|
| Shillong | 6.4.60. | 15 55 | One | About 4 secs. | IV | |

MICROSEISMIC TABULATION

STATION : Shillong

Component : E-W.

MONTH : April, 1960.

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|------|-----|------------------------------|---------------------------|------|------|-----|------------------------------|---------------------------|
| 01 | 00 | 0,0 | - | - | 12 | 00 | ... | - | - |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.2 | 4.2 |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.3 | 4.5 |
| 02 | 00 | 0,0 | - | - | 13 | 00 | 3 | 0.2 | 4.1 |
| | 06 | 1 | 0.2 | 4.0 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.2 | 3.8 | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 1 | 0.2 | 3.6 | | 18 | 3 | 0.2 | 4.1 |
| 03 | 00 | 3 | 0.2 | 4.0 | 14 | 00 | 3 | 0.3 | 4.9 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.2 | 4.2 |
| | 12 | 3 | 0.2 | 4.0 | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 1 | 0.2 | 3.8 | | 18 | 0,0 | - | - |
| 04 | 00 | 1 | 0.2 | 3.9 | 15 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.2 | 4.1 | | 12 | ... | - | - |
| | 18 | 1 | 0.2 | 3.9 | | 18 | 0,0 | - | - |
| 05 | 00 | 1 | 0.2 | 4.0 | 16 | 00 | 1 | 0.2 | 4.0 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.2 | 4.1 |
| | 12 | 1 | 0.3 | 4.6 | | 12 | ... | - | - |
| | 18 | 3 | 0.3 | 5.1 | | 18 | 0,0 | - | - |
| 06 | 00 | 3 | 0.3 | 5.0 | 17 | 00 | 1 | 0.2 | 4.0 |
| | 06 | 1 | 0.3 | 5.1 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.3 | 5.2 | | 12 | 0,0 | - | - |
| | 18 | 1 | 0.4 | 5.4 | | 18 | 0,0 | - | - |
| 07 | 00 | 1 | 0.3 | 5.0 | 18 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | 0,0 | - | - |
| | 18 | ... | - | - | | 18 | 0,0 | - | - |
| 08 | 00 | ... | - | - | 19 | 00 | 0,0 | - | - |
| | 06 | 1 | 0.4 | 5.5 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.4 | 5.4 | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 1 | 0.4 | 5.4 | | 18 | 0,0 | - | - |
| 09 | 00 | 1 | 0.4 | 5.5 | 20 | 00 | 0,0 | - | - |
| | 06 | 1 | 0.4 | 5.4 | | 06 | 0,0 | - | - |
| | 12 | 1 | 0.4 | 5.2 | | 12 | 3 | 0.2 | 4.1 |
| | 18 | 1 | 0.3 | 4.8 | | 18 | 1 | 0.2 | 4.3 |
| 10 | 00 | 1 | 0.3 | 4.7 | 21 | 00 | 1 | 0.2 | 4.2 |
| | 06 | 3 | 0.2 | 4.0 | | 06 | 1 | 0.2 | 4.0 |
| | 12 | 3 | 0.2 | 3.9 | | 12 | 1 | 0.2 | 4.0 |
| | 18 | 1 | 0.3 | 4.5 | | 18 | 1 | 0.3 | 4.4 |
| 11 | 00 | 1 | 0.2 | 4.0 | 22 | 00 | 1 | 0.3 | 4.3 |
| | 06 | ... | - | - | | 06 | 1 | 0.2 | 4.0 |
| | 12 | ... | - | - | | 12 | 1 | 0.3 | 4.3 |
| | 18 | ... | - | - | | 18 | 1 | 0.3 | 4.5 |

Station : Bombay (Colaba)

Component : E-W

Month : April, 1960

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|------|---|------------------------------|---------------------------|------|------|-----|------------------------------|---------------------------|
| 09 | 00 | 1 | 0.9 | 6.0 | 15 | 00 | 3 | 0.5 | 5.4 |
| | 03 | 1 | 0.7 | 5.9 | | | | 0.5 | 2.2 |
| | 06 | 1 | 0.6 | 5.8 | | 06 | 3 | 0.5 | 5.3 |
| | 09 | 1 | 0.6 | 5.7 | | | | 0.5 | 2.6 |
| | 12 | 1 | 0.7 | 5.9 | | 12 | ... | - | - |
| | 15 | 1 | 0.6 | 5.0 | | 18 | 3 | 0.4 | 5.4 |
| | 18 | 3 | 0.5 | 5.2 | | | | 0.4 | 2.6 |
| | | | 0.3 | 2.0 | | | | | |
| | | | | | 16 | 00 | ... | - | - |
| 10 | 00 | 3 | 0.5 | 4.8 | | 06 | 3 | 0.3 | 5.3 |
| | | | 0.4 | 2.0 | | | | 0.4 | 2.6 |
| | 06 | 3 | 0.5 | 5.4 | | 12 | 3 | 0.3 | 4.8 |
| | | | 0.4 | 2.1 | | | | 0.5 | 2.7 |
| | 12 | 3 | 0.6 | 4.8 | | 18 | 3 | 0.4 | 4.5 |
| | | | 0.4 | 2.0 | | | | 0.5 | 2.5 |
| | 18 | 3 | 0.6 | 5.6 | | | | | |
| | | | 0.4 | 1.9 | 17 | 00 | 3 | 0.3 | 4.9 |
| | | | | | | | | 0.3 | 2.5 |
| 11 | 00 | 3 | 0.5 | 5.3 | | 06 | 3 | 0.4 | 4.2 |
| | | | 0.5 | 2.2 | | | | 0.4 | 2.6 |
| | 06 | 3 | 0.5 | 6.2 | | 12 | 3 | 0.4 | 6.1 |
| | | | 0.5 | 2.3 | | | | 0.4 | 2.4 |
| | 12 | 3 | 0.6 | 6.4 | | 18 | 3 | 0.4 | 7.1 |
| | | | 0.6 | 2.3 | | | | 0.6 | 2.3 |
| | 18 | 3 | 0.7 | 6.6 | | | | | |
| | | | 0.5 | 2.5 | 18 | 00 | 3 | 0.6 | 7.4 |
| | | | | | | | | 0.7 | 2.7 |
| 12 | 00 | 3 | 0.7 | 6.6 | | 06 | 3 | 0.5 | 6.0 |
| | | | 0.6 | 2.3 | | | | 0.8 | 2.6 |
| | 06 | 3 | 0.7 | 6.8 | | 12 | 3 | 0.7 | 6.6 |
| | | | 0.6 | 2.4 | | | | 0.8 | 3.0 |
| | 12 | 3 | 0.9 | 6.8 | | 18 | 3 | 0.6 | 5.8 |
| | | | 0.7 | 2.4 | | | | 0.7 | 2.6 |
| | 18 | 3 | 0.6 | 6.4 | | | | | |
| | | | 0.7 | 2.4 | 19 | 00 | 3 | 0.4 | 5.6 |
| | | | | | | | | 0.6 | 2.4 |
| 13 | 00 | 3 | 0.8 | 6.4 | | 06 | 3 | 0.6 | 6.7 |
| | | | 0.7 | 2.4 | | | | 0.6 | 2.7 |
| | 06 | 3 | 0.7 | 7.1 | | 12 | 3 | 0.5 | 5.6 |
| | | | 0.6 | 2.3 | | | | 0.6 | 2.3 |
| | 12 | 3 | 0.9 | 6.7 | | 18 | 3 | 0.6 | 6.2 |
| | | | 0.5 | 2.3 | | | | 0.6 | 2.2 |
| | 18 | 3 | 0.7 | 6.4 | | | | | |
| | | | 0.5 | 2.3 | 20 | 00 | ... | - | - |
| | | | | | | 06 | 1 | 0.6 | 2.6 |
| 14 | 00 | 3 | 0.6 | 6.3 | | 09 | 1 | 0.6 | 2.7 |
| | | | 0.5 | 2.5 | | 12 | 1 | 0.4 | 2.7 |
| | 06 | 3 | 0.6 | 5.9 | | 15 | 1 | 0.5 | 2.7 |
| | | | 0.6 | 2.5 | | 18 | 1 | 0.5 | 2.6 |
| | 12 | 3 | 0.6 | 6.3 | | 21 | 1 | 0.6 | 2.5 |
| | | | 0.6 | 2.0 | | | | | |
| | 18 | 3 | 0.5 | 5.1 | | | | | |
| | | | 0.5 | 1.8 | | | | | |

Bombay (Colaba) Contd.

Month : April, 1960.

| DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. | DATE | HOUR | K | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SECS. |
|------|------|-----|------------------------------|----------------------------|------|------|-----|------------------------------|----------------------------|
| 21 | 00 | 1 | 0.6 | 2.6 | 27 | 12 | 1 | 0.5 | 2.7 |
| | 03 | 1 | 0.7 | 2.5 | | 15 | 1 | 0.4 | 2.6 |
| | 06 | 1 | 0.6 | 2.6 | | 18 | 1 | 0.6 | 2.5 |
| | 09 | 1 | 0.5 | 2.5 | | 21 | 1 | 0.5 | 2.6 |
| | 12 | 1 | 0.5 | 2.5 | | | | | |
| | 15 | 1 | 0.5 | 2.4 | 28 | 00 | 1 | 0.4 | 2.6 |
| | 18 | 1 | 0.5 | 2.4 | | 03 | 1 | 0.4 | 2.5 |
| | 21 | 1 | 0.6 | 2.6 | | 06 | 1 | 0.5 | 2.6 |
| 22 | 00 | 1 | 0.9 | 2.6 | | 09 | 1 | 0.6 | 2.7 |
| | 03 | 1 | 1.1 | 2.8 | | 12 | 1 | 0.5 | 2.5 |
| | 06 | 1 | 0.9 | 2.8 | | 15 | 1 | 0.5 | 2.6 |
| | 09 | 1 | 0.9 | 2.6 | | 18 | 1 | 0.5 | 2.5 |
| | 12 | 1 | 0.6 | 2.6 | | 21 | 1 | 0.5 | 2.5 |
| | 15 | 1 | 0.6 | 2.7 | 29 | 00 | 1 | 0.5 | 2.5 |
| | 18 | 1 | 0.7 | 2.5 | | 03 | 1 | 0.5 | 2.6 |
| | 21 | ... | - | - | | 06 | 1 | 0.7 | 2.7 |
| 23 | 00 | 1 | 0.6 | 2.6 | | 09 | 1 | 0.6 | 2.6 |
| | 03 | 1 | 0.6 | 2.5 | | 12 | 1 | 0.5 | 2.7 |
| | 06 | 1 | 0.6 | 2.7 | | 15 | 1 | 0.8 | 2.2 |
| | 09 | 1 | 0.7 | 2.9 | | 18 | 1 | 0.5 | 2.5 |
| | 12 | 1 | 0.7 | 2.7 | | 21 | ... | - | - |
| | 15 | 1 | 0.7 | 2.7 | 30 | 00 | 1 | 0.6 | 2.6 |
| | 18 | 1 | 0.6 | 2.7 | | 03 | 1 | 0.6 | 2.6 |
| | 21 | 1 | 1.0 | 2.6 | | 06 | 1 | 0.7 | 2.6 |
| 24 | 00 | 1 | 0.8 | 2.8 | | 09 | 1 | 0.6 | 2.7 |
| | 03 | 1 | 0.6 | 2.7 | | 12 | 1 | 0.5 | 2.7 |
| | 06 | 1 | 0.6 | 2.9 | | 15 | 1 | 0.5 | 2.6 |
| | 09 | 1 | 0.8 | 3.0 | | 18 | 1 | 0.5 | 2.5 |
| | 12 | 1 | 0.6 | 2.8 | | 21 | 1 | 0.5 | 2.6 |
| | 15 | 1 | 0.7 | 2.6 | | | | | |
| | 18 | 1 | 0.6 | 2.9 | | | | | |
| | 21 | 1 | 0.4 | 2.7 | | | | | |
| 25 | 00 | 1 | 0.5 | 2.7 | | | | | |
| | 03 | 1 | 0.7 | 2.6 | | | | | |
| | 06 | 1 | 0.6 | 2.6 | | | | | |
| | 09 | 1 | 0.7 | 2.8 | | | | | |
| | 12 | 1 | 0.6 | 2.7 | | | | | |
| | 15 | 1 | 0.6 | 2.6 | | | | | |
| | 18 | 1 | 0.6 | 2.6 | | | | | |
| | 21 | 1 | 0.6 | 2.6 | | | | | |
| 26 | 00 | 1 | 0.5 | 2.5 | | | | | |
| | 03 | 1 | 0.5 | 2.7 | | | | | |
| | 06 | 1 | 0.6 | 2.6 | | | | | |
| | 09 | 1 | 0.6 | 2.7 | | | | | |
| | 12 | 1 | 0.5 | 2.6 | | | | | |
| | 15 | 1 | 0.5 | 2.6 | | | | | |
| | 18 | 1 | 0.4 | 2.5 | | | | | |
| | 21 | 1 | 0.5 | 2.5 | | | | | |
| 27 | 00 | 1 | 0.5 | 2.4 | | | | | |
| | 03 | 1 | 0.4 | 2.5 | | | | | |
| | 06 | 1 | 0.3 | 2.6 | | | | | |
| | 09 | 1 | 0.5 | 2.7 | | | | | |

STATION : Madras.

| | | | | |
|----|----|-----|-----|-----|
| 01 | 00 | 1 | 0.4 | 3.5 |
| | 03 | 3 | 0.4 | 3.5 |
| | 06 | 3 | 0.3 | 3.4 |
| | 12 | 3 | 0.3 | 3.5 |
| | 18 | 3 | 0.4 | 3.6 |
| 02 | 00 | 3 | 0.3 | 3.6 |
| | 03 | 3 | 0.3 | 3.7 |
| | | 3 | 0.3 | 2.9 |
| | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.5 |
| | | 3 | 0.2 | 2.4 |
| | 18 | 3 | 0.4 | 3.6 |
| | | 3 | 0.2 | 2.2 |
| 03 | 00 | 3 | 0.3 | 3.7 |
| | | 3 | 0.2 | 2.3 |
| | 03 | 3 | 0.4 | 3.6 |
| | | 3 | 0.3 | 2.7 |
| | 06 | ... | - | - |
| | 12 | 3 | 0.2 | 2.5 |
| | 18 | 3 | 0.4 | 4.1 |
| | | 3 | 0.3 | 3.4 |

Station Madras

Component : E-W

Month : April, 1960.

| DATE | HOUR GMT. | N | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR GMT | K | MEAN AMPLITUDE UN m.m. | MEAN PERIOD IN SEC. | | |
|------|--------------|-----|------------------------------|---------------------------|------|-------------|-----|------------------------------|---------------------------|-----|-----|
| 04 | 00 | 3 | 0.3 | 4.0 | 12 | 06 | 1 | 0.7 | 6.6 | | |
| | | 3 | 0.1 | 0.9 | | | 3 | 0.1 | 1.5 | | |
| | | 3 | 0.3 | 3.1 | | | 1 | 0.7 | 6.5 | | |
| | 03 | 3 | 0.4 | 4.2 | 12 | 18 | 1 | 0.7 | 6.4 | | |
| | | 3 | - | - | | | 1 | 0.7 | 6.4 | | |
| | 06 | ... | - | - | 15 | 00 | ... | - | - | | |
| | | 3 | 0.4 | 5.0 | | | 3 | 0.7 | 6.5 | | |
| | 12 | 18 | 3 | 0.5 | 5.5 | 03 | 3 | 0.2 | 2.5 | | |
| | | | 3 | 0.7 | 6.5 | | 3 | 0.7 | 6.5 | | |
| | 05 | 00 | 3 | 0.4 | 4.3 | 06 | 3 | 0.7 | 6.5 | | |
| 03 | | 1 | 0.6 | 5.1 | 3 | | 0.2 | 2.4 | | | |
| 06 | | 1 | 0.6 | 5.4 | 12 | | 3 | 0.6 | 6.2 | | |
| 12 | | 1 | 0.7 | 5.7 | | | 3 | 0.1 | 2.2 | | |
| 18 | | 1 | 0.7 | 6.0 | | | 3 | 0.5 | 6.1 | | |
| 06 | 00 | 1 | 0.6 | 6.0 | 14 | 00 | 3 | 0.4 | 4.9 | | |
| | 03 | 1 | 0.7 | 5.9 | | | 3 | 0.2 | 2.7 | | |
| | 06 | 1 | 0.7 | 6.0 | | | 03 | 3 | 0.5 | 5.9 | |
| | 12 | 1 | 0.7 | 6.2 | | | | 3 | 0.2 | 2.5 | |
| | 18 | 1 | 0.7 | 6.1 | | | | 3 | 0.4 | 5.8 | |
| 07 | 00 | 1 | 0.5 | 5.5 | 06 | 3 | 3 | 0.2 | 2.4 | | |
| | 03 | ... | - | - | | | 12 | 3 | 0.4 | 5.9 | |
| | 06 | ... | - | - | | | | 3 | 0.2 | 2.4 | |
| | 12 | ... | - | - | | | | 18 | 3 | 0.4 | 6.0 |
| | 18 | 3 | 0.4 | 4.5 | | | 3 | | 0.3 | 3.1 | |
| 08 | 00 | 3 | 0.3 | 4.1 | 15 | 00 | 3 | 0.2 | 2.4 | | |
| | 03 | 1 | 0.6 | 5.7 | | | 03 | 3 | 0.1 | 1.7 | |
| | 06 | 1 | 0.7 | 5.6 | | | | 3 | 0.1 | 1.6 | |
| | 12 | 1 | 1.3 | 6.1 | | | | 12 | 3 | 0.1 | 1.9 |
| | 18 | 1 | 0.9 | 6.1 | | | 18 | | 3 | 0.1 | 1.5 |
| 09 | 00 | 1 | 0.7 | 5.8 | 16 | 00 | 3 | 0.1 | 1.6 | | |
| | 03 | 1 | 0.6 | 6.3 | | | 03 | 3 | 0.1 | 1.6 | |
| | 06 | 1 | 0.7 | 6.0 | | | | 3 | 0.2 | 2.5 | |
| | 12 | 3 | 0.1 | 1.2 | | | | 06 | 3 | 0.1 | 1.7 |
| | 18 | 3 | 0.5 | 5.6 | | | 12 | | ... | - | |
| 10 | 00 | 3 | 0.4 | 5.4 | 17 | 00 | ... | - | - | | |
| | 03 | 3 | 0.6 | 6.1 | | | 03 | ... | - | - | |
| | 06 | 3 | 0.6 | 5.7 | | | | 3 | 0.3 | 3.4 | |
| | 12 | 3 | 0.6 | 5.9 | | | | 06 | 3 | 0.1 | 1.5 |
| | 18 | 3 | 0.6 | 6.5 | | | 12 | | ... | - | |
| 11 | 00 | 3 | 0.5 | 6.6 | 18 | 00 | 3 | 0.3 | 3.3 | | |
| | 03 | 1 | 0.6 | 6.7 | | | 03 | 3 | 0.1 | 1.5 | |
| | 06 | 1 | 0.7 | 6.7 | | | | 12 | ... | - | - |
| | 12 | 3 | 0.1 | 1.9 | | | | | 18 | 00 | ... |
| | 18 | 1 | 0.7 | 6.7 | | | 03 | ... | - | - | |
| 12 | 00 | 1 | 0.7 | 6.7 | 18 | 06 | ... | - | - | | |
| | 03 | 3 | 0.1 | 1.5 | | | 12 | 3 | 0.1 | 1.5 | |
| | 06 | 1 | 0.7 | 6.5 | | | | 18 | 0,0 | - | - |
| | 12 | 3 | 0.1 | 1.2 | | | | | 06 | ... | - |
| | 18 | 1 | 0.7 | 6.5 | | | 18 | 0,0 | - | - | |

VI

Station Madras (contd.)

MONTH : April, 1965.

| DATE | HOUR | X | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. | DATE | HOUR | X | MEAN AMPLITUDE IN m.m. | MEAN PERIOD IN SEC. |
|------|------|-----|------------------------------|---------------------------|------|------|-----|------------------------------|---------------------------|
| 19 | 00 | 0,0 | - | - | 25 | 00 | 3 | 0.3 | 2.7 |
| | 03 | 3 | 0.3 | 3.5 | | 03 | 3 | 0.3 | 2.8 |
| | | 3 | 0.1 | 1.4 | | 06 | 3 | 0.3 | 2.5 |
| | 06 | ... | - | - | | 12 | 3 | 0.4 | 2.6 |
| | 12 | ... | - | - | | 18 | 3 | 0.4 | 2.7 |
| | 18 | 3 | 0.1 | 1.3 | | | | | |
| 20 | 00 | 3 | 0.1 | 1.3 | 26 | 00 | 3 | 0.3 | 2.6 |
| | 03 | 3 | 0.1 | 1.4 | | 03 | ... | - | - |
| | 06 | 3 | 0.2 | 1.6 | | 06 | 3 | 0.3 | 2.5 |
| | 12 | ... | - | - | | 12 | 3 | 0.3 | 2.7 |
| | 18 | 3 | 0.1 | 1.5 | | 18 | 3 | 0.4 | 2.8 |
| 21 | 00 | 3 | 0.2 | 3.0 | 30 | 00 | 3 | 0.6 | 2.7 |
| | | 3 | 0.1 | 1.6 | | 03 | 3 | 0.4 | 2.9 |
| | 03 | 3 | 0.2 | 3.1 | | 06 | 3 | 0.4 | 2.9 |
| | 06 | 3 | 0.3 | 3.1 | | 12 | 3 | 0.3 | 2.7 |
| | 12 | ... | - | - | | 18 | 3 | 0.3 | 2.6 |
| | 18 | 3 | 0.3 | 3.3 | | | | | |
| | | 3 | 0.1 | 1.8 | | | | | |
| 22 | 00 | 3 | 0.2 | 2.9 | | | | | |
| | | 3 | 0.1 | 1.7 | | | | | |
| | 03 | 3 | 0.3 | 2.3 | 02 | 00 | 0.. | - | - |
| | 06 | 3 | 0.2 | 2.9 | | 06 | 0.. | - | - |
| | 12 | ... | - | - | | 12 | 0.. | - | - |
| | 18 | 3 | 0.3 | 3.0 | | 18 | 0.. | - | - |
| 23 | 00 | 3 | 0.2 | 2.9 | 03 | 00 | 0.. | - | - |
| | 03 | 1 | 0.4 | 3.1 | | 06 | 0.. | - | - |
| | 06 | 1 | 0.4 | 3.1 | | 12 | 0.. | - | - |
| | 12 | 1 | 0.4 | 3.1 | | 18 | 0.. | - | - |
| | 18 | 1 | 0.5 | 3.1 | 04 | 00 | 0.. | - | - |
| 24 | 00 | 3 | 0.4 | 2.9 | | 03 | 0.. | - | - |
| | 03 | 3 | 0.5 | 2.9 | | 12 | 0.. | - | - |
| | 06 | 3 | 0.4 | 3.0 | | 18 | 0.. | - | - |
| | 12 | 3 | 0.3 | 3.0 | 05 | 00 | 0.. | - | - |
| | 18 | 3 | 0.4 | 3.1 | | 06 | 0.. | - | - |
| 25 | 00 | 3 | 0.3 | 3.1 | | 12 | 0.. | - | - |
| | 03 | 3 | 0.3 | 3.0 | | 18 | 0.. | - | - |
| | 06 | 3 | 0.3 | 2.9 | | | | | |
| | 12 | 3 | 0.3 | 3.1 | 06 | 000 | 0.. | - | - |
| | 18 | 3 | 0.3 | 3.2 | | 06 | 0.. | - | - |
| 26 | 00 | 3 | 0.3 | 2.9 | | 12 | 0.. | - | - |
| | 03 | 3 | 0.3 | 3.0 | | 18 | 0.. | - | - |
| | 06 | 3 | 0.3 | 3.0 | 07 | 00 | 0.. | - | - |
| | 12 | 3 | 0.4 | 3.1 | | 06 | 0.. | - | - |
| | 18 | 3 | 0.3 | 3.0 | | 12 | 0.. | - | - |
| | | | | | | 18 | 0.. | - | - |
| 27 | 00 | ... | - | - | 08 | 00 | 0,0 | - | - |
| | 03 | 3 | 0.4 | 2.2 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 2.3 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 2.3 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 2.7 | | | | | |

STATION : Fort Blair.

| | | | | |
|----|-----|-----|---|---|
| 01 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 02 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 03 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 04 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 05 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 06 | 000 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 07 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - |
| | 12 | 0.. | - | - |
| | 18 | 0.. | - | - |
| 08 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |



| Station | Time | IN m.m. | IN SEC. | Station | Time | IN m.m. | IN SEC. |
|---------|------|---------|---------|---------|------|---------|---------|
| 09 | 00 | 0,0 | - | 20 | 00 | 1 1.2 | 7.5 |
| | 06 | 0,0 | - | | 06 | 1 0.8 | 7.5 |
| | 12 | 0,0 | - | | 12 | 3 0.4 | 7.5 |
| | 18 | 0,0 | - | | 18 | 3 0.4 | 7.5 |
| 10 | 00 | 0,0 | - | 21 | 00 | 3 0.4 | 7.5 |
| | 06 | 0,0 | - | | 06 | 3 0.4 | 7.5 |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 11 | 00 | 0,0 | - | 22 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 12 | 00 | 0,0 | - | 23 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 13 | 00 | 0,0 | - | 24 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 3 0.4 | 7.5 | | 12 | 0,0 | - |
| | 18 | 3 0.4 | 7.5 | | 18 | 0,0 | - |
| 14 | 00 | 3 0.4 | 7.5 | 25 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 15 | 00 | 0,0 | - | 26 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 16 | 00 | 0,0 | - | 27 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 17 | 00 | 0,0 | - | 28 | 00 | 0,0 | - |
| | 06 | 0,0 | - | | 06 | 0,0 | - |
| | 12 | 0,0 | - | | 12 | 0,0 | - |
| | 18 | 0,0 | - | | 18 | 0,0 | - |
| 18 | 00 | 3 0.4 | 7.5 | 29 | 00 | 0,0 | - |
| | 06 | 1 0.8 | 7.5 | | 06 | 0,0 | - |
| | 12 | 1 0.8 | 7.5 | | 12 | 0,0 | - |
| | 18 | 1 0.8 | 7.5 | | 18 | 0,0 | - |
| 19 | 00 | 1 0.8 | 7.5 | 30 | 00 | 0,0 | - |
| | 06 | 1 0.8 | 7.5 | | 06 | 0,0 | - |
| | 12 | 1 1.2 | 7.2 | | 12 | 0,0 | - |
| | 18 | 1 1.2 | 7.2 | | 18 | 0,0 | - |



GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

5 MAY 1960



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph stations with their Instruments and Constants

| Station | Latitude | Longitude | Height m.s.l. (Mètres) | Lithographic Foundation | Instrument | Compt. | Period in secs | Static Magni- fication | Damping ratio | Paper speed mm/min. | | |
|-------------|----------|-----------|------------------------------|--|----------------------|---------------|----------------------|------------------------------|------------------|---------------------------|----------|----|
| Agra | | | | | Columbia | E | To=15 | Tg=100 | | 15 | | |
| | | | | | Long Period | N | To=15 | Tg=95 | | 15 | | |
| | | | | | do | Z | To=15 | Tg=70 | | 15 | | |
| Bombay | 18°54'N | 72°40'E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | | |
| | | | | | Sprengnether | E | To=Tg=7 secs | | 30 | | | |
| Bokaro | 23°50'N | 85°48'E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 | | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 | | |
| Calcutta | 22°32'N | 88°22'E | (1) 7 | (Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| | | | | | (2) 6 | (Omori-Ewing) | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | Omori-Ewing | N | 16 | 32 | | 25.4 | |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | | |
| Chatra | 25°50'N | 87°10'E | 151 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | | |
| | | | | | Benioff | Z | To=0 | Tg=0.45 | Critical | 50 | | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | | |
| Colombo | 06°54'N | 79°52'E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | | | |
| Dehra Dun | 30°19'N | 78°02'E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| Hyderabad | 17°25'N | 78°27'E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | | |
| Kodaikanal | 10°14'N | 77°28'E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | | |
| Madras | 13°00'N | 80°11'E | 15 | | Sprengnether | E | To=Tg=72 secs | | Critical | 30 | | |
| New Delhi | 28°39'N | 77°12'E | 207 | Massive Quartzite | | | | | | | | |
| Poona | 18°32'N | 73°51'E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.6 | | Critical | 30 | | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 | | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | | |
| Fort Blair | 11°49'N | 92°43'E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 66:1 | 30 | | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | | |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | | |
| Shillong | 25°34'N | 91°53'E | 1500 | Quartzite Sand stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | | h=0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | | |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 60 | | |
| | | | | | Sprengnether | E | To=Tg=6.3 | | Critical | 30 | | |
| | | | | | Wenner Accelerograph | ZNE | | | | | | |
| Tocklai | 28°45'N | 94°43'E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | | |
| Visianagram | 18°07'N | 83°27'E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | | |

| STATION | COMPT. | PHASE | S. h. | T. m. | T. s. | Δ km. | REMARKS |
|-------------------|-----------|-------|-------|-------|-------|-------|------------------------------|
| <u>May, 1960.</u> | | | | | | | |
| 01 | Shillong | Z | IP | 03 | 07 | 03 | Slight, distant compression. |
| 01 | Shillong | Z | IP | 04 | 19 | 13 | Slight, distant compression. |
| | Chatra | Z | eP | 04 | 19 | 50 | Feeble, distant. |
| 01 | Dehra Dun | NE | e | 01 | 53 | 10 | Feeble. |
| | | | i | | 54 | 42 | |
| | | | i | | 56 | 58 | |
| 01 | Shillong | Z | IP | 13 | 16 | 17 | Slight, distant rarefaction. |
| 01 | Shillong | Z | IP | 14 | 35 | 14 | Slight, distant rarefaction. |
| 01 | Shillong | Z | IP | 16 | 21 | 30 | Slight, distant rarefaction. |
| 01 | Shillong | Z | IPg | 20 | 20 | 25 | 60 |
| | | | ISg | | 20 | 32 | |
| 01 | Shillong | Z | IPg | 20 | 26 | 19 | 50 |
| | | | ISg | | 26 | 25 | |
| 02 | Dehra Dun | NE | e | 01 | 03 | 24 | Feeble. |
| | | | i | | 05 | 56 | |
| | | | i | | 07 | 44 | |
| | Chatra | Z | IP | 01 | 04 | 01 | Slight. |
| | Shillong | Z | IP | 01 | 04 | 22 | Slight, distant compression. |
| 02 | Dehra Dun | NE | e | 02 | 46 | 19 | |
| | | | i | | 48 | 11 | |
| | | | i | | 49 | 07 | |
| | Shillong | Z | eP | 02 | 47 | 12 | Slight. |
| 02 | Chatra | Z | eP | 02 | 48 | 03 | Feeble, distant. |
| | Shillong | Z | i | 02 | 48 | 34 | Slight, distant rarefaction. |
| | | | iP | | 48 | 44 | |
| 01 | Shillong | Z | IP | 03 | 35 | 23 | Slight, distant rarefaction. |
| 02 | Shillong | Z | e | 04 | 30 | 22 | Slight. |
| 01 | Shillong | Z | eP | 04 | 45 | 16 | Slight, distant. |
| 02 | Shillong | Z | eP | 05 | 19 | 10 | Slight, distant. |
| 01 | Shillong | Z | e | 07 | 34 | 30 | Slight, distant. |

| STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--|-----------------------|--|---|----------|---|
| <u>May, 1960.</u> | | | | | |
| Shillong | Z | e | 10 46 44 | | Slight, distant. |
| Shillong | Z | i iP | 11 58 42 58 57 | | Slight, distant. |
| Epc: 0° , 121½° E, Celebes. -H = 12 h. 10 m. 11 s. (USCGS). | | | | | |
| Port Blair | N | iP PPP iS LR | 12 16 31 17 58 21 47 27 01 | 3630 | Slight. |
| Tocklai | E | iP | 12 17 32 | | Slight, distant. |
| Shillong | ZNE E | iP PPP iS PoS/ScP ScS | 12 17 36 19 27 23 31 23 51 27 59 | 4250 | Slight, initial ground motion towards West and compression. |
| Colombo | E | P S L M | 12 18 06 24 19 31 35 37 30 | 4550 | Amp : = 0.2 mm. |
| Calcutta | E | e i | 12 18 14 26 59 | | Slight. |
| Chatra | Z N | iP iS | 12 18 14 24 34 | 4660 | Slight, initial ground motion towards North and West and compression. |
| Madras | E | eP e e iS LQ M | 12 18 16 18 37 20 15 24 42 28 10 33 52 | 4780 | Slight. |
| Kodaikanal | E | e | 12 18 31 | | Tremor. |
| Hyderabad | E | iP PP PPP eS PS SS LQ M | 12 18 36 20 29 21 14 25 27 25 32 28 56 32 14 35 19 | 5170 | Slight, initial ground motion West. |
| Agra | ZNE Z ZE ZNE | iP i PP e iS | 12 19 08 19 26 21 08 21 27 28 14 | 5480 | Initial ground motion towards North, West and compression. |

= 3 =

| No. | STATION | DIRECTION | MAGNITUDE | G. M. T. | | | REMARKS |
|-------------------|------------------------------|-----------|-----------|----------|----|----|--|
| | | | | H. | M. | S. | |
| <u>Mar. 1960.</u> | | | | | | | |
| 01 | Agua (Central) | E | 18 | 12 | 26 | 25 | |
| | | NE | 18 | | 26 | 35 | |
| | | | 1 | | 26 | 52 | |
| | | E | 18 | | 28 | 54 | |
| | | | 0 | | 30 | 14 | |
| | Boons | | 18 | 12 | 19 | 12 | 5570 slight, initial ground motion towards North and West and compression. |
| | | N | 18 | | 28 | 24 | |
| | Bombay | E | 07 | 12 | 19 | 21 | 5700 slight. |
| | | NE | 07 | | 28 | 40 | |
| | | E | 07 | | 28 | 55 | |
| | Delhi (Central) | NE | 07 | 12 | 19 | 21 | 5830 slight. |
| | | N | 07 | | 21 | 23 | |
| | | | 12 | | 26 | 36 | |
| | | | 15 | | 31 | 45 | |
| | | | 18 | | 34 | 32 | |
| | | | 21 | | 38 | 07 | |
| 02 | Shillong | | 0 | 14 | 22 | 58 | Tremor. |
| 02 | Shillong | | 0 | 14 | 47 | 37 | Slight, distant. |
| 02 | Shillong | | 0 | 17 | 32 | 35 | Tremor near. |
| 02 | Shillong | | 1 | 18 | 17 | 04 | Slight, distant. |
| 02 | Shillong | | 0 | 18 | 27 | 46 | Slight, distant. |
| 02 | Shillong | | 0 | 18 | 47 | 13 | Slight. |
| 02 | Shillong | | 0 | 20 | 03 | 39 | Slight, distant. |
| 03 | Agua | NE | 0 | 07 | 01 | 43 | |
| | | NE | 0 | | 05 | 37 | |
| 03 | Shillong | | 0 | 07 | 05 | 00 | Feeble, distant. |
| | Shillong | | 1 | 07 | 05 | 37 | Slight, distant, compression. |
| 03 | Shillong | | 1 | 07 | 05 | 37 | Slight, distant, compression. |
| 03 | Shillong | | 1 | 07 | 49 | 38 | Slight, near. |
| 03 | Epic: 27° N, 99° E, China. | | | | | | |
| | -H = 07 h 55 m 07 s (03503). | | | | | | |
| | Teikoku | | 1 | 07 | 56 | 40 | Slight, distant. |
| | | | 1 | | 58 | 00 | |
| | Shillong | NE | 1 | 07 | 57 | 09 | 880 Moderate, initial ground motion East and transfection. |
| | | E | 1 | | 57 | 16 | |
| | | NE | 1 | | 57 | 23 | |
| | | NE | 1 | | 58 | 40 | |
| | | | 1 | | 58 | 53 | |
| | | | 1 | | 59 | 04 | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|------------------|--|----------------------------|--|---|-----------------|--|
| <u>May, 1960</u> | | | | | | |
| | Agra | ZNE | iP i | 07 57 35 01 15 | | Slight, initial ground motion towards North and East. |
| | Chatra | Z | iP | 07 57 55 | | Moderate, compression. |
| | Bokaro | NE | iP iS | 07 58 24 08 00 56 | 1500 | Slight, initial ground motion towards North & East. |
| | Calcutta | E | e e | 07 58 34 01 51 | | Slight. |
| | Dehra Dun | NE N | eP iS SS SSS M | 07 59 31 08 02 56 05 22 03 44 05 28 | 2070 | Slight. |
| | Port Blair | N | iP iS | 07 59 33 08 05 03 | 2120 | Slight. |
| | Hyderabad | NE N E N E | iP iS LQ SS LR LR M M | 08 00 16 04 57 05 24 05 46 06 35 06 45 06 58 06 58 | 2770 | Slight, initial ground motion towards East & North. Period = 12 secs. Gr. dis = 4 λ Period = 8 secs. Gr. dis = 2 λ |
| | Madras | E | iP | 08 00 34 | | Slight. |
| | Poona | Z N | iP iS | 08 00 53 05 28 | 2970 | Moderate, rarefaction. |
| | Bombay | E NE N | eP eS e M | 08 00 58 05 47 09 18 15 19 | 3180 | Slight. Period = 9 secs. Gr. dis = 2 λ |
| 03 | Shillong | Z | eP | 08 42 21 | | Slight, distant. |
| 03 | Shillong | Z | e | 09 12 01 | | Slight, distant. |
| 03 | Shillong | Z | eP | 10 07 57 | | Slight, distant. |
| 03 | Shillong | Z | iP | 11 29 11 | | Slight, distant, rarefaction. |
| 03 | Epc : 0° , 121½°E, Celebes. -H = 13h 22m 07s (USCGS). | | | | | |
| | Fort Blair | N | e e | 13 27 00 32 00 | | Slight. |

| STATION | COMP. | PHASE | Y. | M. | S. | AMPL. | REMARKS |
|------------------|-------|-------|----|----|----|-------|--|
| <u>May, 1966</u> | | | | | | | |
| Chongqing | U | eP | 13 | 23 | 25 | | Slight, distant. |
| Chongqing | U | 1P | 13 | 29 | 36 | | Slight, distant compression. |
| Chongqing | U | 1P | 13 | 30 | 07 | 4700 | Slight, initial ground motion towards North West and compression. |
| Chongqing | U | 1S | | 36 | 29 | | |
| Chongqing | U | e | 13 | 50 | 12 | | Slight. |
| Chongqing | U | e | 13 | 50 | 21 | | |
| Chongqing | U | e | | 38 | 21 | | |
| Chongqing | U | I | | 45 | 50 | | |
| Chongqing | U | H | | 45 | 49 | | Mag : 0.1 mm. |
| Chongqing | U | eP | 15 | 31 | 04 | 5440 | Slight, initial ground motion towards North West and compression. |
| Chongqing | U | I | | 31 | 22 | | |
| Chongqing | U | PP | | 33 | 04 | | |
| Chongqing | U | e | | 33 | 23 | | |
| Chongqing | U | 1S | | 38 | 06 | | |
| Chongqing | U | PPS | | 38 | 47 | | |
| Chongqing | U | ScS | | 40 | 48 | | |
| Chongqing | U | e | | 42 | 08 | | |
| Chongqing | U | 1P | 13 | 31 | 07 | | Feeble, compression. |
| Chongqing | U | eP | 13 | 31 | 14 | 5690 | Slight. |
| Chongqing | U | eP | | 38 | 32 | | |
| Chongqing | U | 1P | | 39 | 50 | | |
| Chongqing | U | eP | 13 | 31 | 21 | | Feeble. |
| Chongqing | U | e | | 38 | 31 | | |
| Chongqing | U | eP | 14 | 19 | 13 | | Slight, near. |
| Chongqing | U | e | 16 | 40 | 40 | | Slight, distant. |
| Chongqing | U | 1P | 15 | 11 | 52 | | Slight, distant. compression. |
| Chongqing | U | 1P | 22 | 30 | 24 | | Slight, distant compression. |
| Chongqing | U | 1P | 22 | 30 | 52 | | Feeble, distant. |
| Chongqing | U | e | 22 | 31 | 43 | | Tremor. |
| Chongqing | U | 1P | 22 | 32 | 39 | | Feeble, rarefaction. |
| Chongqing | U | 1P | 22 | 32 | 17 | | Slight, distant compression. |
| Chongqing | U | 1P | 22 | 35 | 53 | | Slight, distant. |
| Chongqing | U | e | 22 | 40 | 14 | | Distant, tremor. |
| Chongqing | U | eP | 23 | 55 | 13 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|-------------------|-----------|--------|------------|----------------------|----------|---------------------------------|
| <u>May, 1960.</u> | | | | | | |
| 01 | Shillong | Z | iP iSg | 07 30 31 30 44 | 100 | Slight. |
| 02 | Shillong | Z | iP | 10 42 16 | | Slight,distant rarefaction. |
| 03 | Shillong | Z | e | 11 03 29 | | Slight. |
| 04 | Chatra | Z | iP | 13 49 11 | | Feeble,distant compression. |
| | Shillong | Z | e | 13 49 31 | | Slight,distant. |
| | Dehra Dun | NE | e | 13 53 16 | | Tremor. |
| 04 | Shillong | Z | iP | 18 34 03 | | Slight,distant, compression. |
| | Chatra | Z | iP | 18 35 37 | | Feeble,distant rarefaction. |
| 04 | Shillong | Z | e | 18 42 49 | | Slight,distant. |
| 04 | Bombay | NE | e | 18 54 40 | | Slight. |
| 04 | Shillong | Z | iP | 19 30 28 | | Slight,local. |
| 04 | Shillong | Z | eP | 19 38 49 | | Slight,near. |
| 04 | Shillong | Z | eP | 22 10 04 | | Slight,distant. |
| 04 | Shillong | Z | eP | 23 42 38 | | Slight,distant. |
| 04 | Shillong | Z | e | 02 45 39 | | Tremor. |
| 04 | Shillong | Z | eP | 05 00 01 | | Slight,near. |
| 05 | Shillong | Z | eP | 04 21 41 | | Slight,distant. |
| 05 | Chatra | Z | iP | 06 04 20 | | Feeble,distant, compression. |
| | Shillong | Z | eP | 06 04 41 | | Slight,distant. |
| 05 | Shillong | Z | eP | 10 14 39 | | Slight,distant. |
| 05 | Shillong | Z | iPg iSg | 10 35 52 35 02 | 90 | Slight,compression. |
| 05 | Shillong | Z | eP | 11 35 38 | | Slight,distant. |
| | Chatra | Z | eP | 11 35 54 | | Feeble,distant. |
| 05 | Dehra Dun | NE | e | 14 57 25 | | Tremor. |
| 05 | Shillong | Z | e | 15 41 29 | | Slight,distant. |
| 05 | Shillong | Z | e | 16 48 06 | | Tremor. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|------------------|-----------|---------|------------|----------------------|----------|---------------------------------|
| <u>May, 1960</u> | | | | | | |
| 05 | Shillong | Z | e | 17 21 57 | | Tremor. |
| 05 | Shillong | Z | eP | 18 05 21 | | Slight, near. |
| 05 | Shillong | Z | eP | 20 50 29 | | Slight, distant. |
| 05 | Shillong | Z | e | 23 31 50 | | Tremor, distant. |
| 06 | Shillong | Z | iP iSg | 02 47 15 47 34 | 150 | Slight. |
| 06 | Shillong | Z | i | 05 14 33 | | Slight, distant |
| 06 | Shillong | Z | iP | 06 16 55 | | Slight, near. |
| | Chatra | Z | iP | 06 17 54 | | Feeble, rarefaction. |
| 06 | Shillong | Z | eP | 06 17 53 | | Slight, distant. |
| | Behra Dun | NE | e | 06 21 26 | | Tremor. |
| 06 | Shillong | Z | iPg iSg | 09 04 36 04 50 | 120 | Slight, compression. |
| 06 | Shillong | Z | e | 12 31 27 | | Slight, distant. |
| 06 | Shillong | Z | i | 13 17 15 | | Slight, distant compression. |
| 06 | Shillong | Z | eP | 13 34 36 | | Slight, distant. |
| 06 | Shillong | Z ZE | iP iSg | 14 00 06 00 52 | 420 | Slight, rarefaction. |
| | Toeklai | E | eP i | 14 00 53 01 22 | | Slight, near. |
| | Chatra | Z NE | eP S | 14 00 57 02 23 | 830 | Slight. |
| | Calcutta | N NE | e e | 14 01 01 01 20 | | Slight. |
| 06 | Shillong | Z | eP | 18 57 16 | | Slight, distant. |
| | Chatra | Z | iP | 18 57 30 | | Feeble, rarefaction. |
| 07 | Shillong | Z | eP | 23 59 51 | | Slight, distant. |
| 07 | Shillong | Z | e | 05 07 01 | | Tremor, distant. |
| 07 | Shillong | Z | e | 08 33 43 | | Tremor. |
| 07 | Shillong | Z | i | 12 04 19 | | Tremor. |
| 07 | Shillong | Z | iP | 12 19 57 | | Slight, distant compression. |
| 07 | Toeklai | N | iPg iSg | 13 50 55 51 15 | 170 | Slight, near rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|-----------|--------|-------|----------------------|-----------------|-------------------------------|
| <u>May, 1960.</u> | | | | | | |
| 07 | Shillong | Z | iPn | 12 51 06 | 250 | Slight. |
| | contd. | ZE | iSg | 51 42 | | |
| | Chatra | Z | iP | 12 52 08 | 760 | Slight, compression. |
| | | NE | S | 53 27 | | |
| | Dehra Dun | NE | e | 12 56 47 | | Tremor. |
| 07 | Chatra | Z | iP | 14 20 01 | | Feeble, compression. |
| 07 | Shillong | Z | eP | 19 09 37 | | Slight, distant. |
| 08 | Shillong | Z | iP | 06 01 55 | 180 | Slight. |
| | | | iS | 02 17 | | |
| 08 | Shillong | Z | iP | 06 59 05 | 230 | Slight. |
| | | | iS | 59 32 | | |
| 08 | Dehra Dun | NE | e | 12 25 54 | | Feeble. |
| | | | i | 27 23 | | |
| | Chatra | Z | iP | 12 27 35 | | Feeble, near, compression. |
| | Shillong | Z | iP | 12 28 21 | | Slight, distant, compression. |
| 08 | Dehra Dun | NE | e | 13 47 34 | | Tremor. |
| | Chatra | Z | eP | 13 49 11 | | Feeble, distant. |
| | Shillong | Z | eP | 13 49 55 | | Slight, distant. |
| 08 | Chatra | Z | eP | 14 28 36 | | Feeble, distant. |
| 08 | Shillong | Z | iP | 14 38 16 | | Slight, distant, compression. |
| 08 | Chatra | Z | Pg | 17 57 27 | | Feeble, near. |
| 08 | Shillong | Z | eP | 20 26 14 | | Slight, near. |
| | Chatra | Z | eP | 20 26 19 | 290 | Slight. |
| | | | eS | 26 51 | | |
| 08 | Shillong | Z | iP | 21 56 52 | | Slight, near. |
| | Shillong | Z | iP | 21 57 36 | | Slight, near. |
| 08 | Shillong | Z | eP | 22 25 52 | | Slight, near. |
| 09 | Shillong | Z | e | 00 17 51 | | Slight, distant, rarefaction. |
| | | | iP | 17 53 | | |
| | Chatra | Z | iP | 00 18 25 | | Feeble, distant, compression. |
| 09 | Shillong | Z | e | 02 53 03 | | Slight, distant. |
| 09 | Shillong | Z | iP | 09 10 37 | | Slight, distant. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|---|-----------|---------|----------------------------------|----------------------|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 09 | Chatra | Z | e ² | 09 11 04 | | Fooble. |
| contd. | | | | | | |
| 09 | Chatra | Z | iPg | 12 06 41 | 70 | Fooble. |
| | | N | iSg | 09 49 | | |
| | Shillong | Z | e | 12 11 37 | | Slight, distant. |
| Epic: 25g° N, 89g° E, East Pakistan - India Border. -H = 14 h. 38 m. 27 s. (U.S.C.G.S.) shock felt at Gauhati. | | | | | | |
| | Shillong | ENE | iP iS | 14 37 00 37 19 | 150 | Slight, initial ground motion towards East and Compression. |
| | Chatra | Z | iP | 14 37 27 | 330 | Moderate. |
| | | N | Pc | 37 31 | | |
| | | | Pp | 37 34 | | |
| | | | Pg | 37 37 | | |
| | | | Pop | 37 40 | | |
| | | | LQ | 37 51 | | |
| | | | IR | 37 59 | | |
| | | | S | 38 04 | | |
| | | | S# | 38 08 | | |
| | | | Sg | 38 13 | | |
| | Tocklai | E | e ² iS | 14 37 34 38 23 | 450 | Slight. |
| | Siliguda | E NE | e ² e ² | 14 37 55 38 50 | 510 | Slight. |
| | Dohra Dun | NE | e | 14 39 33 41 20 | | Fooble. |
| | Madras | E | e | 14 40 35 | | Fooble. |
| | Behore | NE | e | 14 41 49 | | Distant. |
| | | | e | 41 57 | | |
| | | | e | 42 06 | | |
| | | | e | 43 07 | | |
| | | | e | 43 22 | | |
| | | | e | 43 31 | | |
| | | | e | 43 47 | | |
| | | | e | 44 14 | | |
| 09 | Hyderabad | E | e | 14 43 03 | | |
| | Madras | E | e | 14 43 11 | | Fooble. |
| | | | e | 43 33 | | |
| | | | e | 43 51 | | |
| | Bombay | N | e | 14 44 53 | | Mild tremor, near. |
| | | | e | 45 08 | | |
| | | NE | e | 45 59 | | |
| 09 | Shillong | Z | e | 17 18 22 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS |
|------------------|--|--------|------------|----------------------|-----------------|-------------------------------|
| <u>May, 1960</u> | | | | | | |
| 09 | Shillong | Z | iP iS | 20 48 03 48 17 | 100 | Slight, compression. |
| 09 | Shillong | Z | i | 22 39 58 | | Slight, distant. |
| 09 | Shillong | Z | eP iS | 22 47 07 47 41 | 300 | Slight. |
| 09 | Shillong | Z | eP iS | 23 13 10 13 43 | 290 | Slight. |
| 10 | Shillong | Z | iPg iSg | 00 13 26 13 28 | 20 | Slight. |
| 10 | Shillong | Z | iPg iSg | 00 18 10 18 14 | 30 | Slight. |
| 10 | Shillong | Z | e | 00 29 07 | | Tremor. |
| 10 | Shillong | Z | i | 01 26 19 | | Slight, distant. |
| 10 | Shillong | Z | iP | 16 55 02 | | Slight, distant, compression. |
| 10 | Shillong | Z | i | 17 04 36 | | Slight, distant. |
| 10 | Shillong | Z | eP | 17 45 48 | | Slight, distant. |
| 10 | Shillong | Z | iP | 17 59 19 | | Slight, near. |
| 10 | Shillong | Z | eP | 19 47 46 | | Slight, distant. |
| 10 | Shillong | Z | eP | 21 59 29 | | Slight, distant. |
| 10 | Port Blair | E | iPg iSg | 22 51 51 52 03 | 110 | Slight. |
| 10 | Shillong | Z | eP | 23 24 48 27 16 | | Slight, distant. |
| 11 | Shillong | Z | iP | 04 05 08 | | Slight, distant, rarefaction. |
| | Chatra | Z | eP | 04 05 33 | | Feeble, distant. |
| | Dehra Dun | NE | eP eS | 04 07 21 13 56 | 4920 | Feeble. |
| | Bombay | E | e e | 04 08 25 16 22 | | Slight. |
| | Kodaikanal | E | e | 04 10 41 | | Tremor. |
| 11 | Shillong | Z | eP | 04 10 54 | | Slight, distant. |
| 11 | Epc :- 3°S, 131°E, Ceram Sea. -H = 18h 36m 00s. Mag:- 6 $\frac{1}{2}$ (Pas). | | | | | |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|------------|--------------------|--|---|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 11 | Port Blair | E | eP PP PPP IS M | 18 45 54 45 27 45 49 49 57 57 34 | 4500 | |
| | Shillong | E 3N | IP e I PP PPP IS i | 18 44 38 44 50 45 03 46 30 47 27 51 28 52 08 | 5190 | |
| | Calcutta | E | eP CS | 18 44 48 51 48 | 5330 | |
| | Bokaro | NE | eP IS | 18 45 08 5 6 | 5690 | |
| | Guwara | E NE | IP S | 18 45 09 52 30 | 5740 | |
| | Colomb | E | P S L M | 18 45 12 52 34 19 07 49 10 59 | 5750 | Amor = 0.8 |
| | Madras | E | IP PP PPP IS IS PNS SoS SS LQ LR M | 18 45 22 47 20 48 22 52 48 52 59 53 07 55 07 56 21 58 04 19 00 21 05 04 | 5830 | Initial ground motion East. |
| | Dibrugarh | E | e | 18 45 24 | | Tremor. |
| | Dura | NE E 3NE | IP i IS | 18 46 05 48 32 54 09 | 6520 | Initial ground motion West and compression. |
| | Poona | E E | eP IS | 18 46 10 54 20 | 6650 | |
| | Bombay | NE E NE E | eP PP i eS PNS SoS SC LQ | 18 46 17 48 32 49 07 54 31 55 05 55 35 5 01 19 02 25 | 6700 | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|-------------------|---|---------|--|---|----------|---|
| <u>May, 1960.</u> | | | | | | |
| | Dehra Dun | NE N | e PPP IS SS SSS LQ LR M | 18 46 18 49 57 54 27 58 13 1 00 45 01 21 04 09 08 28 | 6690 | |
| 01 | Chatra | Z | eP | 20 24 33 | | Feeble. |
| 11 | Shillong | Z | iPg iSg | 21 08 34 08 36 | 20 | Slight. |
| 13 | Shillong | Z | eP | 06 29 51 | | Slight, distant. |
| 14 | Chatra | Z | iP | 06 29 15 | | Feeble, distant rarefaction. |
| 18 | Shillong | Z | e | 06 35 02 | | Tremor. |
| 17 | Shillong | Z | eP IS | 16 29 05 29 19 | 120 | Slight. |
| 12 | Shillong | Z | iP | 19 20 46 | | Slight, distant compression. |
| 12 | Shillong | Z | eP | 22 13 02 | | Slight, near. |
| 12 | Epo: 7½° N, 81° W, Panama. Felt. - H = 22 h. 32 m. 32 s (USCGS). | | | | | |
| | Chatra | Z | eP | 22 52 02 | | Slight, distant. |
| | Poona | Z | iP | 22 52 05 | | Feeble, rarefaction. |
| | Bombay | NE E | e e e | 22 52 08 55 53 23 01 57 08 30 | | Slight, distant. |
| | Shillong | Z | iP | 22 52 14 | | Slight, distant. |
| | Dehra Dun | NE | e e | 22 52 15 55 35 | | Feeble. |
| | Agra | NE | iP | 22 55 40 | | Slight, distant initial ground motion East. |
| 12 | Shillong | Z | eP | 23 20 20 | | Slight, distant. |
| 13 | Shillong | Z | e e | 00 50 17 53 09 | | Tremor, distant. |
| 15 | Shillong | Z | eP | 08 17 51 | | Slight, distant. |
| 15 | Chatra | Z N | iP Sg | 09 22 13 22 20 | 60 | Mild, compression. |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS |
|-----------|---|--------------------|---|--|-----------------|---|
| May, 1960 | | | | | | |
| 15 | Shatva | Z N | 1P | 10 46 54 47 15 | 180 | Slight, compression. |
| | Shillong | Z | eP | 10 47 39 | | Slight, distant. |
| 15 | Shillong | Z | e | 15 19 08 | | Slight, distant. |
| 15 | Shillong | Z | 1P | 15 23 12 | | Slight, distant, rarefaction. |
| 15 | Epc:- 55°N, 161°W, Alaska Peninsula. -H = 16h 07m 12s (USCGS). | | | | | |
| | Talmai | E | eP | 16 19 10 | | Feeble, distant. |
| | Dehra Dun | NE N | eP eP e i PS e e LR M | 16 19 13 22 07 24 37 29 34 30 24 34 55 38 47 46 11 53 01 | 8660 | Slight. |
| | Shillong | Z | 1P | 16 19 15 | | Slight, distant, compression. |
| | Chitra | Z N | 1P S | 16 19 20 20 15 | 8690 | Slight, distant, ground motion towards South, West and compression. |
| | Bokaro | NE E | eP eS | 16 19 38 29 44 | 8930 | Moderate |
| | Patna | ZNE | 1P, PaP 1 PP 1S, SKS ScS PPS | 16 19 41 19 55 22 59 29 58 30 16 31 16 | 9180 | |
| | Kanpur | NE N NE N | eP PP eS M | 16 20 24 24 09 31 15 17 04 26 | 9980 | Slight. |
| | Madras | E | eP SKKS eS PS PPS M | 16 20 37 31 28 31 48 33 07 33 45 17 02 43 | 10500 | Slight. |
| | Poona | Z | 1P | 16 22 27 | | Feeble, compression. |
| | Solombo | E | e e e | 16 30 30 17 05 20 18 50 | | |

Amp: = 0.2

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|------------|--------|------------|----------------------|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| | Hyderabad | E | e M | 16 32 15 57 30 | | Period = 18 secs. Gr. dis: = 4 / μ . |
| | Kodaikanal | E | e | 17 01 15 | | Tremor. |
| 13 | Shillong | Z | eP | 17 17 23 | | Slight, near. |
| 14 | Shillong | Z | eP | 17 52 39 | | Slight, distant. |
| 15 | Shillong | Z | e | 18 04 04 | | Distant. |
| 15 | Shillong | Z | e | 19 03 30 | | Tremor, distant. |
| 15 | Shillong | Z | e | 21 04 40 | | Tremor, distant. |
| 14 | Shillong | Z | eP | 06 29 33 | | Slight. |
| | Shillong | Z | ePg iSg | 15 37 37 37 51 | 120 | Slight. |
| 14 | Shillong | Z | iP | 17 51 27 | | Slight, distant compression. |
| 14 | Chatra | Z | iP | 17 51 48 | | Feeble, distant. |
| 14 | Shillong | Z | iP | 22 29 38 | | Slight, distant, compression. |
| | Chatra | Z | iP | 22 29 51 | | Slight, distant compression. |
| | Poona | Z | iP | 22 31 24 | | Feeble, compression. |
| 14 | Bombay | E | e | 23 00 23 | | Slight. |
| 14 | Port Blair | N | i | 23 30 47 | | Slight. |
| 15 | Port Blair | N | iPg iSg | 00 59 51 59 58 | 60 | Slight. |
| 15 | Shillong | Z | i | 03 07 19 | | Slight, distant. |
| 15 | Shillong | Z | eP | 10 30 15 | | Slight, distant. |
| 15 | Shillong | Z | iP | 13 36 08 | | Slight, distant, compression. |
| | Chatra | Z | iP | 13 36 47 | | Feeble distant, compression. |
| | Dehra Dun | NE | e | 13 37 55 | | Tremor. |
| 15 | Shillong | Z | iPg iSg | 15 03 04 03 16 | 100 | Slight. |
| 15 | Shillong | Z | iPg iSg | 16 18 33 18 45 | 100 | Slight. |
| 15 | Dehra Dun | NE | e | 17 53 10 | | Tremor. |

| DATE | STATION | COMPT | PHASE | G. M. T. Δ h. m. s. Km. | REMARKS |
|-------------------|-----------|-------|--------------|-----------------------------------|-------------------------------|
| <u>May, 1960.</u> | | | | | |
| 15 | Shillong | Z | 1P | 21 49 04 | Slight, distant, compression. |
| | Chatra | Z | 1P | 21 49 14 | Feeble, compression. |
| 15 | Chatra | Z | P | 23 42 00 | Mild, near. |
| 15 | Chatra | Z | 1Pg | 00 03 26 | Mild, near. |
| 16 | Tocklai | E | eP i | 03 09 17 09 59 | Slight, near. |
| | Shillong | Z | 1Pg 1Sg | 03 09 42 10 27 | 380 Slight. |
| | Chatra | Z | 1P | 03 10 39 | Mild, near, compression. |
| 16 | Shillong | Z | e | 14 58 02 | Slight, distant. |
| 16 | Shillong | Z | 1P | 19 55 19 | Slight, distant, rarefaction. |
| 16 | Shillong | Z | eP | 19 50 54 | Slight, near. |
| 16 | Shillong | Z | eP | 20 35 48 | Slight, near. |
| 15 | Dehra Dun | NE | e | 20 52 27 | Tremor. |
| 15 | Shillong | Z | 1P | 23 45 08 | Slight, distant, rarefaction. |
| | Chatra | Z | P | 23 45 58 | Mild, near. |
| 17 | Shillong | Z | eP | 00 02 32 | Slight, distant. |
| | Chatra | Z | P | 00 03 21 | Mild, near. |
| 17 | Tocklai | E | eP i i | 00 13 43 13 57 14 48 | Slight, near. |
| 17 | Chatra | Z | 1Pg Sg | 03 44 48 44 56 | 70 Mild, compression. |
| 17 | Chatra | Z | 1P | 09 29 52 | Mild, near, compression. |
| 17 | Shillong | Z | 1P 1S | 15 03 35 04 08 | 290 Slight. |
| 17 | Shillong | Z | eP | 15 46 52 | Slight, near. |
| 17 | Shillong | Z | eP | 20 21 41 | Slight, near. |
| 17 | Shillong | Z | 1P | 21 21 57 | Slight, distant, rarefaction. |

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

May, 1960.

18 Epc: 29 N, 130 E, Ryukyu Islands,
 -H = 06 h. 35 m. 09 s. , -h = about 100 Km. (U.S.C.G.S.)

| DATE | STATION | COMPT | PHASE | G. M. T. | Δ | REMARKS | | |
|-----------|------------|-------|----------|----------|---|--|-------|--|
| | | | | h. m. s. | Km. | | | |
| 18 | Shillong | ZNE | iP | 06 41 45 | 3920 | Moderate, initial ground motion towards South West and compression | | |
| | | | eS | 47 08 | | | | |
| | | | PcS | 48 02 | | | | |
| | | | • | 49 13 | | | | |
| | | | SS | 49 38 | | | | |
| | | | | ScS | 52 02 | | | |
| | Chatra | Z | iP | 06 42 21 | 4220 | Moderate, distant. | | |
| | | | NE | i | | | 43 53 | |
| | | | Z | e | | | 52 35 | |
| | Calcutta | E | eP | 06 42 27 | 4220 | Moderate. | | |
| | | | IS | 48 20 | | | | |
| | Port Blair | N | iP | 06 42 29 | 4480 | Slight. | | |
| | | | • | 43 51 | | | | |
| | | | PP | 44 59 | | | | |
| | | | IS | 48 26 | | | | |
| ScS | | | 52 33 | | | | | |
| Bokaro | NE | iP | 06 42 37 | 4520 | Moderate, initial ground motion South and West. | | | |
| | | N | PP | | | 44 12 | | |
| | | | PPP | | | 44 21 | | |
| | E | IS | 48 37 | | | | | |
| | | N | i | | | 49 04 | | |
| | | | • | | | 51 14 | | |
| | SSS | | 51 51 | | | | | |
| | | | LR | | | 53 12 | | |
| | | | M | | | 56 25 | | |
| Dehra Dun | NE | eP | 06 43 21 | 5220 | Moderate. | | | |
| | | N | PP | | | 45 27 | | |
| | | | i | | | 49 22 | | |
| | | | • | | | 51 45 | | |
| | | | SS | | | 53 30 | | |
| | | | • | | | 56 33 | | |
| Agra | ZNE | iP | 06 43 22 | 5250 | Moderate, initial ground motion towards South West and compression. | | | |
| | | ZE | i | | | 43 40 | | |
| | | ZNE | • | | | 45 04 | | |
| | NE | PP | 45 24 | | | | | |
| | | ZE | • | | | 45 45 | | |
| | | PPP | 46 16 | | | | | |
| | NE | S | 50 04 | | | | | |
| | | PS | 50 23 | | | | | |
| | NZ | • | 53 18 | | | | | |
| | | SS | 53 40 | | | | | |
| | E | i | 53 56 | | | | | |
| | ZE | SSS | 54 52 | | | | | |
| | N | LR | 56 24 | | | | | |
| | ZNE | i | 58 14 | | | | | |
| | | M | 59 32 | | | | | |
| | | | | | Period= 16 secs, Amp: 53 m.m. | | | |
| Hyderabad | E | eP | 06 43 47 | 5350 | Moderate. | | | |
| | | • | 45 57 | | | | | |
| | | eS | 50 35 | | | | | |
| | | • | 52 10 | | | | | |
| | | • | 58 40 | | | | | |
| | | M | 03 11 | | | | | |
| | | | | | Period= 12 secs. Gr. dis= 6 μ | | | |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|--|------------------------------|--|--|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 18 | Madras contd. | E | iP PP i PPP ScP eS e ScS SS LQ LR M | 06 43 52 45 47 45 58 46 36 49 13 50 51 51 27 53 58 54 10 55 18 57 57 07 01 52 | 5550 | Initial ground motion East. |
| | Poona | Z | iP | 06 44 14 | | Moderate, rarefaction. |
| | Kodaikanal | E | P PP PPP e e e LR M | 06 44 17 46 20 47 35 51 59 55 39 57 36 07 00 12 04 39 | 5890 | |
| | Bombay | NE E NE E E N | eP e eS PPS M M | 06 44 19 49 27 51 50 52 42 07 08 20 11 16 | 6120 | Slight. Period = 20 secs. Gr.dis = 3 μ Period = 14 secs. Gr.dis = 8 μ |
| 18 | Epc: 27° N, 52½° E, Persian Gulf. -H = 08 h. 40 m. 57 s. (U.S.C.G.S.) | | | | | |
| | Agra | ZE ZNE | iP iS | 08 48 05 50 11 | 2550 | Slight, initial ground motion East and Compression. |
| | Dehra Dun | NE N | e PPP iS SS SSS LR M | 08 46 14 46 48 50 15 50 51 51 22 51 37 54 02 | 2580 | Slight. |
| | Chatra | Z | iP | 08 47 17 | | Slight, compression. |
| | Shillong | Z | iP | 08 47 52 | | Slight, distant, compression. |
| | Bombay | NE | e | 08 49 33 | | |
| 18 | Shillong | Z | iP | 18 16 05 | | Slight, distant, compression. |
| | Chatra | Z | iP | 18 16 43 | | Feeble, distant, compression. |

| DATE TIME | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS | |
|-------------------|---|-------------------|--|--|---------|---|
| <u>May, 1960.</u> | | | | | | |
| 18 | Chatra | Z | 19 19 08 19 19 | 100 | Mild. | |
| 18 | Shillong | Z | e | 19 20 55 | Tremor. | |
| 19 | Epo: 33° N, 71° E, Hindukish. -H = 02 h. 07 m. 00 s. (U.S.C.G.S.) -h = about 200 km. Felt Srinagar. | | | | | |
| | Dehra Dun | NE N | eP PP PPP LQ IS SS LR SSS Sg,M | 02 08 55 00 02 09 09 10 14 10 23 10 36 10 38 10 47 11 15 | 880 | Slight. |
| | Agra | ZNE | iP sP IS | 02 09 34 10 06 11 24 | 1110 | Initial ground motion towards North, West and rarefaction. |
| | Chatra | N NE | eP S | 02 10 40 13 30 | 1780 | Moderate. |
| | Bombay | E E NE E | e e e eS i | 02 10 52 11 10 11 25 13 52 14 08 | 1890 | Slight. |
| | Dokaro | NE | eP IS | 02 10 54 13 54 | 1890 | Slight. |
| | Poona | Z N | iP i | 02 10 57 14 22 | | Moderate, initial ground motion North and rarefaction. |
| | Calcutta | E | iP IS | 02 11 25 14 51 | 2220 | Slight, initial ground movement towards West. |
| | Vizianagram | NE N | iP e pP iS e e e e e | 02 11 28 11 50 12 00 15 09 15 21 15 41 15 57 16 18 17 54 | 2430 | |
| | Shillong | ZNE NE | iP iP sP IS SS SSS | 02 11 29 12 05 12 31 15 06 16 04 16 28 | 2360 | Moderate, initial ground motion North West and rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|------------------|---|--------|--|---|-----------------|------------------|
| <u>May, 1960</u> | | | | | | |
| | Madras | E | eP P iS LQ e S e | 02 12 12 12 54 16 21 16 45 17 10 17 28 18 00 | 2850 | Moderate. |
| | Hyderabad | E | eS e e | 02 14 50 15 08 15 26 | | Slight. |
| 19 | Epo:- 17°N, 66°E, Mascarene Islands Region. -M = 10th USCGS (USCGS). | | | | | |
| | Colombo | E | e | 10 18 30 21 50 23 27 | | |
| | Madras | E | eP PP PPP PcP i i e e e M | 10 18 35 20 05 20 29 20 47 24 25 25 10 27 15 27 45 29 19 32 24 | 3720 | Moderate. |
| | Kodaikanal | E | mp e e e SS SSS LR M | 10 19 00 19 45 19 57 23 36 24 57 25 15 26 00 27 18 | 3330 | Moderate. |
| | Bombay | E | eP P e i e | 10 19 06 20 00 21 15 25 22 30 12 | 4130 | |
| | Poona | Z N | eP i iS | 10 19 12 24 36 25 11 | 4320 | Moderate. |
| | Port Blair | E | e e e | 10 19 50 23 17 29 17 | | Slight. |
| | Vizianagram | N | eP | 10 19 56 | | Slight, distant. |

| STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|-------------------|---------|---------------------------------------|--|----------|--------------------------------|
| <u>May, 1960.</u> | | | | | |
| Bokaro | NE N | eP PP i LQ LR M | 10 20 16 22 09 27 10 31 27 33 33 37 31 | 10 | Moderate. |
| Dehra Dun | NE N | eP PP ppp i e SSS e | 10 20 21 21 55 22 43 23 44 29 55 30 23 36 04 | 5150 | Slight. |
| Shillong | NE | e eP iS | 10 20 37 21 05 28 24 | 5700 | Moderate. |
| Calcutta | E | e i i | 10 20 42 23 35 27 21 | | Moderate. |
| Agra | ZNE | e | 10 20 56 26 42 | | Slight. |
| Chatra | NE | P | 10 21 02 | | Moderate,distant. |
| 19 Shillong | Z | i | 10 57 51 | | Slight,distant. |
| 19 Shillong | Z | iP | 16 42 38 | | Slight,near. |
| 19 Shillong | Z | eP | 16 57 54 | | Slight,distant. |
| 19 Shillong | Z | eP iS | 20 01 00 01 16 | 120 | Slight. |
| 19 Shillong | Z | e | 21 48 59 | | Tremor. |
| 19 Shillong | Z | e | 22 20 26 | | Slight,distant. |
| 20 Shillong | Z | iP | 00 32 21 | | Slight,distant compression. |
| 20 Shillong | Z | e | 01 05 12 | | Slight. |
| 20 Dehra Dun | NE | e e | 04 20 05 23 30 | | Feeble. |
| Chatra | Z | iP | 04 20 39 | | Feeble,distant compression. |
| Bombay | NE | e | 04 22 42 | | |
| 20 Chatra | Z | eP | 07 29 01 | | Slight,near. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|--|---------|---|--|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 0 | Tocklai | E | iP | 08 30 03 | | Slight, distant compression. |
| 20 | Epc: 28° S, 167½° E, Norfolk Island. - H = 11 h. 12 m. 31 s. (USCGS). Mag : 6½-6¾ (Pas). | | | | | |
| | Colombo | E | e | 11 24 45 | | |
| | | | e | 28 53 | | |
| | | | e | 36 30 | | |
| | Shillong | ZE E | iP PP PPP eS PS PPS i i SS | 11 25 37 29 07 31 12 36 18 37 28 37 56 39 26 40 46 41 10 | 9730 | Slight, distant initial ground movement West and compression. |
| | Chatra | Z | P | 11 25 59 | | Distant. |
| | Agra | Z N | P i | 11 26 29 45 19 | | Distant, compression. |
| | Bokaro | NE E | e e iS | 11 27 22 30 00 38 27 | | |
| | Madras | E | e e PS PPS e e SS SSP e e e | 11 28 43 28 55 38 03 38 29 39 11 39 31 43 04 43 28 46 16 52 13 58 37 | 10220 | Begining not clear due to microseisms. |
| | Poona | Z N | e i | 11 29 52 39 17 | 8027 | Moderate, compression. Initial ground motion North. |
| | Bombay | E | i PP e PPP PS PPS e SS SSP SSS | 11 30 05 30 47 32 01 33 11 40 00 40 34 41 05 45 09 45 27 49 00 | 11220 | |

| NO. | STATION | DEPTH | PHASE | G. H. C. H. M. S. | km. | REMARKS. |
|-----|---------|-------|-------|----------------------|-----|----------|
|-----|---------|-------|-------|----------------------|-----|----------|

Mar. 1960.

| | | | | | | |
|----|-------------|----|---|----------|-------|---------------------------------|
| 17 | Dakka, Iran | NE | e | 11 31 26 | 11380 | |
| | | N | e | 34 09 | | |
| | | | e | 35 10 | | |
| | | | e | 39 41 | | |
| | | | e | 40 48 | | |
| | | | e | 45 29 | | |
| | | | e | 46 24 | | |
| | | | e | 46 57 | | |
| | | | e | 54 28 | | |
| | Kodakkanal | E | e | 11 32 32 | | |
| | | | e | 35 47 | | |
| | | | e | 37 47 | | |
| | | | e | 43 05 | | |
| | | | e | 44 38 | | |
| | | | e | 48 53 | | |
| | | | e | 52 23 | | |
| | | | e | 56 26 | | |
| | | | e | 12 00 41 | | |
| | | | e | 09 02 | | |
| | Madaba | S | e | 11 35 09 | | |
| | | | e | 37 09 | | |
| | | | e | 37 54 | | |
| 20 | Shillong | S | e | 12 32 24 | 240 | Slight. |
| | | | e | 32 58 | | |
| 22 | Shillong | S | e | 12 35 39 | 260 | Slight. |
| | | | e | 39 15 | | |
| 23 | Dabra | S | e | 12 39 14 | | Feeble, near. |
| 24 | Coekhal | E | e | 13 30 32 | | Slight, near. |
| | | | e | 38 59 | | |
| 25 | Shillong | S | i | 17 20 32 | | Slight, distant. |
| 26 | Shillong | S | i | 17 53 29 | | Slight, distant. |
| 28 | Shillong | S | e | 18 13 52 | | Slight, distant. |
| 29 | Shillong | S | e | 18 48 31 | | Slight, distant compression. |
| 30 | Shillong | S | e | 20 12 39 | | Slight, near. |
| 32 | Shillong | S | e | 21 25 47 | | Slight, distant. |
| 33 | Shillong | S | e | 22 20 52 | | Slight, distant. |
| 34 | Shillong | S | e | 22 35 32 | | Slight, distant. |
| 35 | Shillong | S | e | 02 38 38 | 100 | Slight. |
| | | | e | 38 50 | | |
| 37 | Shillong | S | e | 06 51 29 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|--|--------|-------------------|----------------------|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 21 | Shillong | Z | iP | 08 23 08 | | Slight, distant compression. |
| | Chatra | N | P | 08 24 52 | | Feeble, distant |
| | Poona | Z | iP | 08 25 25 | | Feeble, rarefaction. |
| 21 | Kodaikanal | E | e | 09 29 37 | | Tremor. |
| 21 | Epc : $37\frac{1}{2}^{\circ}$ S, $73\frac{1}{2}^{\circ}$ W, Near Coast of Chile. | | | | | |
| | - H = 10 h. 02 m. 50 s. (USCGS). | | | | | |
| | Many casualties and extensive property damage at conception and surrounding area. Mag :- $7\frac{1}{4}$ - $7\frac{1}{2}$ (Berk). | | | | | |
| | Kodaikanal | E | PKP ₁ | 10 22 22 | 15740 | |
| | | | PP | 25 31 | | |
| | | | PKS ₁ | 25 49 | | |
| | | | PKS ₂ | 26 16 | | |
| | | | PPP | 28 41 | | |
| | | | SKS ₂ | 29 20 | | |
| | | | SKKS ₁ | 32 15 | | |
| | | | PKKS ₁ | 35 00 | | |
| | | | SKSP | 35 30 | | |
| | | | PS | 35 57 | | |
| | | | SKKKS | 40 06 | | |
| | | | SS | 43 48 | | |
| | | | SSP | 44 21 | | |
| | | | SSS | 49 00 | | |
| | | | LQ | 11 02 12 | | |
| | | | LR | 08 42 | | |
| | | | M | 20 39 | | |
| | | | | | | Period = 20 secs. Gr. dis := 344 μ . |
| | Bombay | NE | ePKP ₁ | 10 22 30 | 16160 | |
| | | E | PP | 26 05 | | |
| | | | PKS | 26 13 | | |
| | | NE | PPP(2) | 36 08 | | |
| | | | PPS | 38 38 | | |
| | | | eSS | 44 59 | | |
| | | E | LQ | 11 05 32 | | |
| | | | LR | 13 14 | | |
| | | N | M | 27 06 | | |
| | | E | M | 27 16 | | |
| | | | | | | Period = 19 secs. Gr. dis := 248 μ . |
| | | | | | | Period = 19 secs. Gr. dis := 248 μ . |
| | Poona | Z | iPKP ₁ | 10 22 32 | 16240 | |
| | | N | i | 25 39 | | |
| | | | PP | 25 59 | | |
| | | | e | 27 32 | | |
| | | | SKS ₂ | 29 45 | | |
| | | | e | 34 31 | | |
| | | | e | 36 19 | | |
| | | | e | 41 33 | | |
| | | | e | 42 12 | | |
| | | | e | 46 24 | | |
| | | | e | 57 53 | | |
| | | | e | 11 03 31 | | |

| DATE | STATION | COMP | PHASE | G. M. T. Δ | | | REMARKS |
|-------------------|------------|------|----------------|-------------------|----|----|--|
| | | | | h. | m. | s. | |
| <u>May, 1960.</u> | | | | | | | |
| 21 | Colombo | E | PKP | 10 | 22 | 33 | |
| | | | e | | 25 | 39 | |
| | | | e | | 43 | 51 | |
| | | | M | 11 | 25 | 21 | Amp: = 43.0 m.m. |
| | Port Blair | S | PKP | 10 | 22 | 43 | |
| | | | e | | 30 | 43 | |
| | Agra | E | iPKP | 10 | 22 | 44 | 171 70 Compression. |
| | | ZNE | i | | 22 | 58 | |
| | | | i | | 23 | 26 | |
| | | N | e | | 23 | 52 | |
| | | ZE | i | | 24 | 32 | |
| | | | i | | 24 | 46 | |
| | | ZNE | i | | 25 | 38 | |
| | | | PKS | | 25 | 38 | |
| | | | PP | | 26 | 46 | |
| | | N | e | | 27 | 38 | |
| | | | i | | 28 | 42 | |
| | | | SKS | | 29 | 37 | |
| | | E | e | | 33 | 14 | |
| | | E | e | | 34 | 39 | |
| | | N | i | | 36 | 55 | |
| | | | PKS | | 39 | 51 | |
| | Bokaro | NE | ePKP | 10 | 22 | 52 | 17890 |
| | | N | e | | 23 | 53 | |
| | | | PKS | | 26 | 25 | |
| | | | e | | 29 | 42 | |
| | | | SKS | | 29 | 54 | |
| | | | M | | - | - | |
| | | E | M | | | | Period = 20 secs. Gr.dis. = 247 μ . Period = 16 secs. Gr.dis. = 215 μ |
| | Chatra | N | PKP | 10 | 22 | 53 | 17890 |
| | | NE | PP | | 27 | 39 | |
| | | N | M ₁ | 11 | 46 | 47 | Period = 19 secs. Gr.dis = 413 μ |
| | | E | M ₁ | | 49 | 50 | Period = 19 secs. Gr.dis = 416 μ |
| | Shillong | ZNE | iPKP1 | 10 | 22 | 56 | 18140 Great. |
| | | N | PKP2 | | 23 | 45 | |
| | | | PP | | 27 | 43 | |
| | | | SKSP | | 37 | 58 | |
| | | | PKS | | 41 | 09 | |
| | | | ISS | | 47 | 59 | |
| | | | SSP | | 49 | 06 | |
| | | | SSS | | 54 | 22 | |
| | | | SSP(2) | | 54 | 51 | |
| | | | SSS(2) | 11 | 02 | 48 | |
| | | | IQ | | 11 | 29 | |
| | | | IR | | 19 | 25 | |
| | | | M | | 32 | 59 | Period = 20 secs. Gr.dis. = 212 μ |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|---------------------|---------|---------------------------------------|---|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 21 | Dehra Dun contd. | NE N | e e PP i e e e e | 10 23 00 25 28 26 47 31 09 35 26 37 46 40 50 45 37 | | |
| | Tockalai | E | ePKP ₁ | 10 23 06 | | Distant. |
| | Calcutta | E | PKP ₂ PP e SS | 10 23 12 27 17 40 57 46 57 | 17240 | |
| | | E | Mn Mn | 11 28 11 36 22 | | Period = 15 secs. Gr. dis. = 139 μ |
| | Sehorn | NE | e e e | 10 32 54 34 49 36 52 | | Phases not clear. |
| 21 | Poona | Z | eP | 11 13 34 | | Slight. |
| 21 | Shillong | Z | ePKP | 11 13 57 | | Slight, distant. |
| 21 | Shillong | Z | e | 11 54 34 | | Slight, distant. |
| 21 | Shillong | Z | eP iS | 12 28 46 29 18 | 290 | Slight. |
| 21 | Poona | Z | iP | 12 40 57 | | Feeble, compression. |
| 21 | Shillong | Z | e | 12 41 21 | | Slight, distant. |
| 21 | Poona | Z | iP | 13 19 39 | | Feeble, compression. |
| 21 | Shillong | Z | ePKP | 13 20 03 | | Slight, distant. |
| 21 | Poona | Z | iP | 14 18 59 | | Feeble, compression. |
| 21 | Shillong | Z | e | 14 19 22 | | Slight, distant. |
| 21 | Poona | Z | eP | 14 28 29 | | Feeble. |
| 21 | Poona | Z | eP | 14 51 39 | | Feeble. |
| 22 | Shillong | Z | eP | 04 06 38 | | Slight, distant. |
| 22 | Poona | Z | iP | 06 21 17 | | Feeble, compression. |
| 22 | Poona | Z | iP | 08 30 34 | | Feeble, rarefaction. |
| | Shillong | Z | iP | 08 31 07 | | Slight, distant, compression. |

| STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|---------|--------|-------|----------------------|----------|----------|
|---------|--------|-------|----------------------|----------|----------|

May, 1960.

Epc: 38° S, 73½° W, Near Coast of Chile.
 -H = 10 h. 30 m. 39 s. (USCGS).
 Mag:- 6½ (Pas), 6¼ (Berk).

| | | | | | | |
|-----------|--|-------------------|----------|-------|--------------|--|
| Bombay | NE | ePKP | 10 50 16 | | | |
| Poona | Z N | 1PKP ₁ | 10 50 18 | 16070 | | |
| | | PP | 53 39 | | | |
| | | e | 55 05 | | | |
| | | e | 11 02 12 | | | |
| | | e | 03 44 | | | |
| | | e | 06 59 | | | |
| | | e | 09 39 | | | |
| | | e | 14 21 | | | |
| Hyderabad | E | 1PKP ₁ | 10 50 23 | 16430 | | |
| | | i | 52 36 | | | |
| | | e | 11 02 53 | | | |
| | | e | 15 25 | | | |
| | | e | 25 13 | | | |
| | | e | 29 52 | | | |
| | | e | 40 22 | | | |
| Agra | Z ZE Z E ZNE E Z NE | 1PKP | 10 50 31 | 17000 | Compression. | |
| | | i | 51 05 | | | |
| | | i | 52 35 | | | |
| | | i | 53 09 | | | |
| | | i | 56 24 | | | |
| | | i | 57 01 | | | |
| | | i | 11 00 13 | | | |
| | | i | 03 28 | | | |
| | | i | 06 48 | | | |
| | | i | 09 49 | | | |
| Chatra | Z | PKP ₁ | 10 50 42 | | | |
| Shillong | Z | ePKP ₁ | 10 50 43 | 18130 | | |
| | | PPS | 11 08 38 | | | |
| | | i | 11 00 | | | |
| | | i | 17 55 | | | |
| | | i | 23 07 | | | |
| | | i | 31 44 | | | |
| Dehra Dun | NE N | ePKP ₂ | 10 50 53 | 17050 | | |
| | | e | 56 14 | | | |
| | | i | 11 01 19 | | | |
| | | e | 07 00 | | | |
| | | e | 10 07 | | | |
| | | e | 13 46 | | | |
| | | e | 16 35 | | | |
| | | e | 24 44 | | | |
| Bokaro | NE N | 1PKP ₂ | 10 51 07 | 17390 | | |
| | | e | 53 54 | | | |
| | | SKS | 57 43 | | | |
| | | PPS | 11 07 09 | | | |
| | | LQ | 08 24 | | | |
| | | | 53 46 | | | |

Period = 28 secs.
 Gr. dis = 52 A.

| DATE | STATION | COMP. | PHASE | G. T. h. m. s. | km. | REMARKS |
|-------------------|--|-------|-------------------|----------------|-------|--|
| <u>May, 1960.</u> | | | | | | |
| 22 | Calcutta | E | i | 10 51 11 | | Initial ground movement West. |
| | | | i | 53 24 | | |
| | | | e | 55 26 | | |
| | | | i | 57 00 | | |
| 22 | Epc: $37\frac{1}{2}^{\circ}$ S, 73° W, Near Coast of Chile. - H = 10 h. 32 m. 43 s (USCGS). Mag :- $7\frac{1}{4}$ - $7\frac{1}{2}$ (Pas), 7 (Berk). | | | | | |
| | Bombay | NE | ePKP ₁ | 10 52 20 | 16000 | Period = 19 secs. Gr.dis : = 4 μ . Period = 19 secs. Gr.dis := 19 μ . |
| | | | ePKS | 55 54 | | |
| | | | PPP(2) | 11 05 52 | | |
| | | | PPG | 08 26 | | |
| | | E | SS | 14 46 | | |
| | | | M | 12 04 28 | | |
| | | N | M | 28 56 | | |
| | Poona | ZN | iPKP | 10 52 11 | 16030 | |
| | | N | PKS | 55 46 | | |
| | | | ppp | 58 46 | | |
| | | | PS | 11 06 16 | | |
| | | | PPS | 08 08 | | |
| | | | SS | 14 23 | | |
| | | | SSP | 15 01 | | |
| | | | SSS | 19 53 | | |
| | Colombo | E | PKP ₂ | 10 52 31 | 16330 | |
| | | | e | 55 16 | | |
| | | | e | 11 05 06 | | |
| | | | e | 13 51 | | |
| | Kodaikanal | E | PKP ₂ | 10 52 32 | 16350 | |
| | | | e | 55 26 | | |
| | | | pp | 56 05 | | |
| | | | PKS ₁ | 56 11 | | |
| | | | e | 58 26 | | |
| | | | SKS ₂ | 59 31 | | |
| | | | e | 11 07 32 | | |
| | | | e | 13 26 | | |
| | | | e | 14 02 | | |
| | | | e | 18 32 | | |
| | | | e | 30 57 | | |
| | | | e | 37 33 | | |
| | Shillong | E | ePKP | 10 52 46 | 18020 | Rarefaction. |
| | | | FKS ₁ | 56 20 | | |
| | | | PP | 57 15 | | |
| | | | PPP | 11 01 11 | | |
| | | | SAKS | 04 03 | | |
| | | | PPP(2) | 05 18 | | |
| | | | PPG | 10 51 | | |
| | | | SS | 17 30 | | |
| | | | SSP | 18 30 | | |
| | | | SSS | 24 00 | | |
| | Vizianagram | N | ePKP | 10 53 05 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|-------------------|---|--------|-------------------|----------------------|----------|--|
| <u>May, 1960.</u> | | | | | | |
| 22 | Chatra | Z | PP | 11 02 54 | | Feeble, distant. |
| 22 | Port Blair | E | i | 11 50 30 | | Slight. |
| 22 | Poona | Z | iP | 12 36 24 | | Feeble, compression. |
| | Shillong | Z | e | 12 36 48 | | Slight, distant. |
| 22 | Poona | Z | eP | 13 18 19 | | Feeble. |
| 22 | Chatra | Z | iPg | 16 54 39 | 100 | Mild, rarefaction. |
| | | NE | Sg | 54 51 | | |
| | Shillong | Z | eP | 16 55 40 | | Slight, distant. |
| 22 | Epc: 38° S, 73½° W, Near Coast of Chile. - H = 18 h. 55 m. 57 s (USCGS) . Mag : 7¼ (Berk). | | | | | |
| | Colombo | E | PKP | 19 15 22 | 15220 | |
| | | | PP | 18 23 | | |
| | | | e | 25 33 | | |
| | | | e | 31 41 | | |
| | Kodaikanal | E | PKP ₁ | 19 15 32 | 15850 | |
| | | | PKS ₁ | 19 02 | | |
| | | | SKS ₂ | 22 26 | | |
| | | | e | 31 38 | | |
| | | | SS | 37 46 | | |
| | | | e | 38 34 | | |
| | | | e | 43 27 | | |
| | | | LQ | 57 42 | | |
| | | | LR | 20 04 36 | | |
| | | | M | 17 08 | | |
| | | | | | | Period = 25 secs. Gr. dis := 25 ¼. |
| | Bombay | NE | ePKP ₁ | 19 15 34 | 15940 | |
| | | | ePKS ₁ | 19 03 | | |
| | | | PS | 29 15 | | |
| | Poona | Z | iPKP ₁ | 19 15 36 | 16080 | Initial ground motion towards North and compression. |
| | | | i | 18 37 | | |
| | | | PKS ₁ | 19 20 | | |
| | | | e | 21 33 | | |
| | | | e | 24 33 | | |
| | | | i | 29 08 | | |
| | Port Blair | E | i | 19 15 39 | | |
| | | | i | 31 03 | | |
| | Hyderabad | E | iPKP | 19 15 45 | 16330 | |
| | | | i | 29 23 | | |
| | | | e | 30 45 | | |
| | | | e | 36 39 | | |
| | | | e | 37 35 | | |
| | | | e | 41 58 | | |
| | | | e | 53 52 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|--|-------|------------------|----------------------|-----------------|--|
| <u>May, 1960.</u> | | | | | | |
| 22 | Shillong | Z | e i | 21 50 42 51 14 | | Slight, distant. |
| 22 | Shillong | Z | i | 22 05 35 | | Slight, distant. |
| 22 | Shillong | Z | e | 22 27 39 | | Slight, distant. |
| 22 | Poona | Z | iP | 22 33 50 | | Feeble, compression. |
| 22 | Poona | Z | eP | 23 49 10 | | Feeble. |
| | Shillong | Z | i i | 23 49 32 50 18 | | Slight, distant. |
| 22 | Shillong | Z | i | 23 58 46 | | Slight, distant. |
| 23 | Poona | Z | iP | 00 45 24 | | Feeble, rarefaction. |
| 23 | Shillong | Z | eP | 01 06 22 | | Slight, distant. |
| 23 | Poona | Z | iP | 01 10 52 | | Feeble, compression. |
| | Shillong | Z | ePKP | 01 11 15 | | Slight, distant. |
| 23 | Shillong | Z | i | 01 22 31 | | Slight, distant. |
| 23 | Shillong | Z | iP | 01 55 55 | | Slight, distant. |
| 23 | Shillong | Z | eP | 02 01 39 | | Slight, distant. |
| 23 | Shillong | Z | e | 02 02 15 | | Slight, distant. |
| | Poona | Z | eP | 02 03 39 | | Feeble. |
| 23 | Shillong | Z | e | 03 06 29 | | Tremor. |
| | Chatra | Z | e | 03 06 32 | | Feeble, distant. |
| 23 | Shillong | Z | e | 03 16 09 | | Slight, distant. |
| 23 | Shillong | Z | e | 04 47 42 | | Tremor. |
| 23 | Epc: 38° S, 73½° W, Chile. -H = 05 h. 13 m. 35 s. (USCGS) | | | | | |
| | Bombay | E | e | 05 33 02 | | |
| | | | e | 33 24 | | |
| | | N | e | 34 12 | | |
| | | E | PP | 36 20 | | |
| | | | PKS ₁ | 36 38 | | |
| | | N | PPP(2) | 46 36 | | |
| | | E | eSS | 55 34 | | |
| | | N | M | 03 41 46 | | |
| | | | | | | Period = 17 secs. Gr.dis: = 2 μ |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|------------------|---------|-------------------|----------------------------|-----------------|--|
| <u>May, 1960.</u> | | | | | | |
| 23 | Bokaro contd. | E | i i i | 05 33 03 37 52 41 10 | | Slight. |
| | Poona | Z | iPKP ₁ | 05 33 15 | | Slight, initial ground motion towards North and compression. |
| | Madras | E | e e | 05 33 17 49 49 | | |
| | Chatra | Z ZN | PKP PP | 05 33 38 37 58 | 18020 | Slight. |
| 23 | Shillong | Z | iP | 05 33 39 | | Slight, distant, compression. |
| 23 | Kodaikanal | E | e | 06 18 37 | | Tremor. |
| 23 | Hyderabad | E | M | 06 33 09 | | Period = 22 secs. Gr.dis: = 8 μ |
| 23 | Shillong | Z | iP | 07 29 12 | | Slight, distant, compression. |
| 23 | Shillong | Z | e | 07 33 18 | | Tremor. |
| 23 | Poona | Z | iP | 10 11 59 | | Feeble, compression. |
| 23 | Chatra | Z | e | 10 12 19 | | Feeble. |
| | Shillong | Z | i | 10 12 23 | | Slight. |
| 23 | Chatra | Z | e | 10 57 57 | | Feeble |
| | Shillong | Z | e i | 10 58 00 58 34 | | Slight, distant. |
| | Dehra Dun | NE | e | 10 58 04 | | Feeble. |
| 23 | Dehra Dun | NE | e | 12 19 29 | | Tremor. |
| 23 | Chatra | Z | e | 14 20 17 | | Feeble. |
| | Shillong | Z | i | 14 22 11 | | |
| 23 | Shillong | Z | e | 14 38 21 | | Tremor. |
| | Chatra | Z | iP | 14 38 28 | | Feeble, compression. |
| 23 | Shillong | Z | e | 16 23 47 | | Tremor. |
| 23 | Shillong | Z | e | 16 24 31 | | Tremor. |
| 23 | Shillong | Z | iPg iSg | 18 21 08 21 31 | 200 | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS |
|------------------|---|--------|-----------------|----------------------------|-----------------|-------------------------------|
| <u>May, 1960</u> | | | | | | |
| 23 | Shillong | Z | e | 19 16 05 | | |
| 23 | Shillong | Z | e | 19 29 10 | | Tremor. |
| 23 | Shillong | Z | e | 20 14 19 | | Tremor. |
| 23 | Shillong | Z | ePg iSg | 20 39 11 39 29 | 150 | Slight. |
| | Chatra | Z | iP | 20 39 33 | | Mild, near compression. |
| 23 | Shillong | Z | e | 21 27 33 | | Tremor. |
| 23 | Shillong | Z | e eP | 22 47 32 47 43 | | Slight, distant. |
| 24 | Shillong | Z | e | 03 46 26 | | |
| 24 | Shillong | Z | e | 06 32 01 | | |
| 24 | Shillong | Z | iP | 06 37 09 | | Slight, distant, rarefaction. |
| 24 | Shillong | Z | i | 06 42 39 | | |
| 24 | Shillong | Z | iP | 06 48 10 | | Slight, distant, rarefaction. |
| 24 | Chatra | Z | eP | 08 32 14 | | Feeble. |
| 24 | Dehra Dun | NE | e | 09 32 39 | | Feeble. |
| 24 | Epc:- $44\frac{1}{2}^{\circ}$ S, $167\frac{1}{2}^{\circ}$ E, South Island, New Zealand. -H = 14h 46m 34s (USCGS). Felt Milford Sound. Mag: $6\frac{3}{4}$ -7(Pas.), $6\frac{1}{4}$ - $6\frac{1}{2}$ (Berk). | | | | | |
| | Calcutta | E | e e i | 14 58 20 07 35 11 12 | | |
| | Port Blair | N E | i iS | 14 59 40 15 09 53 | 9440 | |
| | Shillong | Z | eP SKS | 15 00 11 11 00 | 10550 | |
| | Chatra | Z | iP PP SKS | 15 00 31 04 41 11 15 | 11050 | |
| | Agra | Z | i i | 15 01 00 05 27 | | Slight, distant. |

| TE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|---|--------|-------------------|----------------------|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| | Madras | E | e | 15 03 13 | 10560 | |
| | | | e | 04 18 | | |
| | | | e | 05 19 | | |
| | | | e | 06 33 | | |
| | | | iS | 11 06 | | |
| | | | e | 11 17 | | |
| | | | PS | 12 12 | | |
| | | | PPS | 13 00 | | |
| | | | SS | 14 52 | | |
| | | | SSS | 17 41 | | |
| | | | LR | 20 38 | | |
| | | | M | 23 59 | | |
| | Kodaikanal | E | e | 15 03 52 | | Tremor. |
| | Bokaro | E | i | 15 04 32 | | |
| | | | i | 11 10 | | |
| | Bombay | NE | e | 15 05 24 | | Slight. |
| | | N | e | 11 37 | | |
| | | | M | 51 51 | | Period = 15 secs. Gr. dis := 4 μ . |
| 24 | Shillong | Z | e | 16 21 47 | | Tremor. |
| 24 | Shillong | Z | e | 16 38 48 | | Tremor. |
| 24 | Chatra | Z | eP | 20 32 34 | | Mild, near. |
| 24 | Shillong | Z | iP | 20 38 31 | | Slight, distant compression. |
| 24 | Agra | Z | i | 20 52 30 | | Slight, distant compression. |
| | Shillong | Z | iP | 20 52 31 | | Slight, distant rarefaction. |
| 24 | Shillong | Z | e | 23 35 14 | | |
| 24 | Shillong | Z | eP | 23 40 27 | | Slight, distant. |
| 25 | Shillong | Z | iPg | 03 18 45 | 160 | Slight, compression. |
| | | | iSg | 19 03 | | |
| 25 | Shillong | Z | i | 06 02 33 | | Slight, distant. |
| 25 | Epc: 45° S, 76° W, Off Coast of Chile. | | | | | |
| | - H = 08 h. 34 m. 33 s. Mag : 6 $\frac{1}{4}$ (Pas), 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ (Berk). | | | | | |
| | Poona | Z | iPKP ₁ | 08 54 14 | 16230 | |
| | | N | i | 58 57 | | |
| | Bombay | NE | ePKP ₂ | 08 54 24 | 16410 | |
| | | | eSS | 09 17 15 | | |
| | | N | M | 10 55 24 | | Period = 21 secs. Gr. dis := 5 μ . |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------------|--|---------|---------------------------------------|--|-----------------|--|
| <u>May, 1960.</u> | | | | | | |
| 25 | Madras | E | PKP e | 08 54 26 57 34 | | |
| | Agra | ZNE | iPKP | 08 54 28 | | Moderate, Initial ground motion North and West, and compression. |
| | Chatra | Z | ePKP | 08 54 33 | | |
| | Shillong | Z | ePKP | 08 54 39 | | Slight. |
| | Dehra Dun | NE N | e e i e e e e | 08 54 46 59 32 09 04 18 09 21 12 29 14 46 18 28 25 24 | | |
| | Calcutta | E | PKP ₂ e PP e e | 08 54 52 55 24 58 58 09 02 46 09 50 18 55 | 17150 | |
| | Bokaro | NE E | iPKP ₂ e e PPP | 08 54 56 55 21 09 01 09 02 02 | 17270 | |
| | Colombo | E | e | 08 58 49 | | |
| 25 | Shillong | Z | e | 09 59 37 | | Slight, distant. |
| 25 | Kodaikanal | E | e | 10 14 01 | | Tremor. |
| 25 | Dehra Dun | NE | e e | 12 55 21 58 42 | | Feeble. |
| 25 | Epc: 1° N, 129½° E, Halmahera. - H = 13 h. 38 m. 28 s. (USCGS). | | | | | |
| | Shillong | Z | e | 13 46 41 | | Slight, distant compression. |
| | Chatra | Z NE | iP S | 13 47 08 54 03 | 5270 | Feeble. |
| | Bokaro | NE E | iP i | 13 47 36 54 00 | | Moderate. |
| | Dehra Dun | NE | eP eS | 13 48 16 55 58 | 6120 | Feeble. |
| 25 | Shillong | Z | eP | 14 35 42 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|------------------|---|----------------|---|---|-----------------|---|
| <u>May, 1960</u> | | | | | | |
| 25 | Shillong | Z | e | 15 10 52 | | Slight, distant. |
| 25 | Madras | E | iP PP PPP LQ LR iS M | 16 00 43 00 51 00 57 01 10 01 16 01 22 01 29 | 360 | Slight. |
| | Poona | S | iP | 16 03 41 | | Slight. |
| | Chatra | Z | e | 16 03 56 | | Feeble. |
| | Bombay | NE | e e | 16 04 10 04 42 | | Mild, tremor. Near. |
| | Dehra Dun | NE | e | 16 09 07 | | Tremor. |
| 25 | Shillong | Z | iP | 17 35 27 | | Slight, distant, compression. |
| 25 | Shillong | Z | e | 17 39 48 | | Slight, distant. |
| 25 | Shillong | Z | e | 18 40 26 | | Tremor. |
| 25 | Poona | Z | iP | 19 41 36 | | Feeble, compression. |
| | Shillong | Z | e | 19 41 42 | | Tremor. |
| 25 | Shillong | Z | e | 22 29 10 | | Tremor. |
| 25 | Shillong | Z | e | 23 22 17 | | Tremor. |
| 26 | Shillong | Z | e | 05 12 12 | | Slight, distant. |
| 26 | Epc:- 40°N, 20°E, Albania - Greece Border. -H = 05h 10m 05s (USCGS). Mag: 6½ (Pas). | | | | | |
| | Dehra Dun | NE N | e e e iS SS SSS LQ M | 05 18 56 21 41 23 07 25 38 29 15 30 18 32 21 36 24 | 5270 | |
| | Agra | ZE Z ZNE | iP iPP iS | 05 18 57 20 56 25 56 | 5350 | Initial ground motion towards West and rare- faction. |
| | Poona | Z | iP | 05 19 04 | | Compression. |
| | Bombay | NE | eP PP eS LQ | 05 19 05 21 08 26 10 30 08 | 5460 | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|---|-------|------------|----------------------|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 26 | Chatra | Z | iP | 05 19 49 | 6150 | Compression. |
| | contd. | ZNE | iS | 27 33 | | |
| | Bokaro | NE | eP | 05 19 56 | 6150 | |
| | | E | iS | 27 40 | | |
| | Shillong | Z | iP | 05 20 18 | | Slight, distant, rarefaction. |
| | Kodaikanal | E | e | 05 21 38 | | Tremor. |
| 26 | Chatra | Z | iP | 05 44 05 | | Feeble, distant. |
| 26 | Shillong | Z | iPg | 11 46 07 46 37 | 220 | Slight. |
| 26 | Shillong | Z | e | 15 58 31 | | Slight, distant. |
| 26 | Shillong | Z | iP | 17 23 58 | | Slight, distant, rarefaction. |
| 26 | Shillong | Z | iP | 18 09 39 | | Slight, distant, compression. |
| | Chatra | Z | eP | 18 10 06 | | Feeble, distant, rarefaction. |
| 26 | Poona | Z | iP | 19 53 32 | | Feeble. |
| 26 | Epc: 27° N, 93° E, Eastern India. -H = 20 h. 05 m. 07 s. (U.S.C.G.S.). Epc: 27° N, 93° E, 160 kms. North East of Shillong. -H = 20 h. 05 m. 10 s. (Shillong). Felt Tezpur, Haflong. | | | | | |
| | Tocklai | E | ePg iSg | 20 05 35 05 50 | 130 | Slight. |
| | Shillong | ZNE | iPg iSg | 20 05 36 05 56 | 160 | Slight, initial ground motion towards North East and rarefaction. |
| | Chatra | Z | iP | 20 06 29 | 540 | Moderate. |
| | | N | P* | 06 38 | | |
| | | | Pg | 06 47 | | |
| | | NE | S | 07 26 | | |
| | Calcutta | E | i iS | 20 06 41 07 35 | | Moderate, initial ground movement West. |
| | Bokaro | NE | iP | 20 06 53 | 700 | |
| | | E | PPP | 07 10 | | |
| | | | i | 07 55 | | |
| | | | iS | 08 06 | | |
| | Vizianagram | N | eP | 20 08 08 | | Slight, distant. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|-------------------|-------------|--------------------|--|--|----------|--|
| <u>May, 1960.</u> | | | | | | |
| 26 contd. | Agra | ZNE | iP iS | 20 08 16 10 48 | 1500 | Slight, initial ground motion West and compression. |
| | Dehra Dun | NE N | eP PP PPP iS SS SSS | 20 08 18 08 32 08 40 10 48 11 00 11 15 | 1500 | Slight. |
| | Sehore | NE | eP PP PPP e eS e e | 20 08 38 08 49 08 55 10 10 10 23 10 27 11 52 | 1630 | Mild. |
| | Madras | E | iP PP PPP e iS LQ LR | 20 09 19 09 35 09 44 12 10 12 43 12 47 13 39 | 2050 | Moderate, initial ground motion, East. |
| | Poona | Z N | iP iS | 20 09 37 13 09 | 2140 | Moderate, initial ground motion North and rarefaction. |
| | Bombay | NE E NE E | eP e eS i | 20 09 46 13 10 13 26 13 35 | 2220 | Slight. |
| | Vizianagram | N | eP | 20 10 13 | | Slight, distant. |
| 26 | Shillong | Z | iP iSg | 21 22 18 22 32 | 120 | Slight. |
| 26 | Shillong | Z | iPg eSg | 23 09 25 09 30 | 40 | |
| 26 | Shillong | Z | i | 23 19 51 | | |
| 27 | Shillong | Z | iPg iSg | 00 12 50 13 17 | 200 | Slight. |
| | Chatra | Z N | iP iP* S | 00 12 53 12 58 13 30 | 330 | Slight. |
| | Calcutta | N E N | e e e | 00 13 18 13 20 13 46 | | Slight. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ Km. | REMARKS. |
|------------------|-----------|---------|-----------------------|-------------------------------------|-----------------|-------------------------------|
| <u>May, 1960</u> | | | | | | |
| | Bokaro | NE E | iP Pg iS iSg | 00 13 19 13 31 13 59 14 13 | 350 | Slight. |
| | Tocklai | E | eP i | 00 13 37 14 27 | | Slight. |
| | Dehra Dun | NE | e | 00 16 47 | | Tremor. |
| | Poona | Z | eP | 00 19 44 | | Slight. |
| | Bombay | NE | e | 00 20 50 | | Slight, near. |
| 27 | Shillong | Z | iP | 00 38 09 | | Slight, distant, compression. |
| 27 | Shillong | Z | iP | 00 56 40 | | Slight, distant, compression. |
| 27 | Shillong | Z | iP | 01 20 17 | | Slight, distant, compression. |
| 27 | Shillong | Z | iPg iSg | 01 28 35 28 45 | 70 | Slight. |
| | Chatra | Z NE | eP e | 01 28 46 32 03 | | Feeble. |
| 27 | Shillong | Z | e i | 03 37 24 38 08 | | Slight, distant. |
| 27 | Shillong | Z | iP | 04 19 24 | | Slight, distant, compression. |
| 27 | Shillong | Z | eP | 04 46 17 | | Slight, distant. |
| 27 | Shillong | Z | eP | 05 57 38 | | Slight, distant. |
| | Chatra | Z | iP | 05 58 01 | | Feeble, compression. |
| 27 | Shillong | Z | eP | 16 26 23 | | Slight, near. |
| 27 | Shillong | Z | eP | 17 28 54 | | Slight, near. |
| 27 | Dehra Dun | NE | e | 20 18 27 | | Tremor. |
| 27 | Shillong | Z | eP | 20 20 41 | | Slight, distant. |
| | Chatra | Z | eP | 21 21 08 | | Feeble, distant. |
| 27 | Shillong | Z | eP | 22 31 50 | | Slight, distant. |
| 27 | Agra | Z | iP | 23 26 46 | | Slight, distant, |
| | Shillong | Z | e | 23 26 58 | | Slight, distant. |
| 27 | Shillong | Z | eP | 23 40 34 | | Slight, distant. |
| 28 | Shillong | Z | iP | 02 51 01 | | Slight, near. |
| 28 | Poona | Z | iP | 03 25 33 | | Feeble. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|--|-------------------|---|--|-----------------|---|
| <u>May, 1960.</u> | | | | | | |
| 28 | Shillong | Z | eP | 04 21 13 | | Slight, near. |
| 28 | Shillong | Z | e i | 06 26 04 26 34 | | Slight, distant. |
| 28 | Agra | E ZNE | e i | 10 45 28 47 36 | | Initial ground motion South West and Compression. |
| 28 | Shillong | Z | eP | 11 04 11 | | Slight, distant. |
| 28 | Kodaikanal | E | e | 11 16 42 | | |
| 28 | Poona | Z | iP | 11 25 22 | | Feeble. |
| | Shillong | Z | i | 11 25 37 | | Slight, distant. |
| | Chatra | Z | eP | 11 25 42 | | Feeble, distant. |
| 28 | Shillong | Z | iP | 11 29 20 | | Slight, near. |
| 28 | Shillong | Z | iPg iSg | 13 34 43 35 09 | 200 | |
| 28 | Shillong | Z | e | 16 12 45 | | Slight, distant. |
| 28 | Shillong | Z | eP | 16 48 33 | | Slight, distant. |
| 28 | Shillong | Z | eP | 18 17 47 | | Slight, local. |
| 28 | Chatra | Z | eP | 19 35 42 | | Feeble, near. |
| 29 | Shillong | Z | iPg iSg | 03 59 41 59 48 | 60 | Slight. |
| | Tocklai | E | iPg iSg | 06 35 37 35 43 | 60 | Slight. |
| 29 | Epc: 38° S, $72\frac{1}{2}^{\circ}$ W, Chile, -H = 07 h. 39 m. 29 s. (U.S.C.G.S.) Mag: $6\frac{1}{2}$ (Pas), $6\frac{1}{4}$ (Berk). | | | | | |
| | Bombay | E NE E N | iPKP ₁ PP PS eSS M | 07 59 07 08 02 54 12 54 21 41 09 02 59 | 16040 | Period = 19 secs. Gr.dis: = 4 μ |
| | Madras | E | PKP e | 07 59 10 08 12 46 | | |
| | Poona | Z N | iPKP ₂ iPP | 07 59 15 08 02 32 | 16270 | |
| | Agra | Z ZNE | iPKP i PP | 07 59 18 59 38 08 03 12 | 16780 | Compression. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|-------------------|------------|-------|-------------------|----------------------|----------|----------------------------------|
| <u>May, 1960.</u> | | | | | | |
| 29 | Bokaro | NE | ePKP ₁ | 07 59 28 | 17660 | |
| contd. | | E | PPP | 08 07 30 | | |
| | Chatra | Z | ePKP | 07 59 30 | 17800 | |
| | | Z | PP | 08 03 48 | | |
| | Shillong | Z | ePKP | 07 59 33 | | Slight, distant. |
| | Dehra Dun | NE | e | 07 59 45 | | |
| | | | i | 08 04 02 | | |
| | | | i | 07 18 | | |
| | | | i | 08 42 | | |
| | | | i | 10 15 | | |
| | | | i | 13 45 | | |
| | Kodaikanal | E | e | 08 06 02 | | Tremor. |
| 29 | Shillong | Z | e | 08 20 49 | | Slight, distant. |
| 29 | Chatra | Z | iP | 08 26 44 | | Feeble, compression. |
| 29 | Poona | Z | iP | 08 54 05 | | Feeble, compression. |
| 29 | Shillong | Z | iPg iSg | 12 05 51 06 23 | 230 | Slight. |
| 29 | Shillong | Z | iPg iSg | 13 34 31 34 45 | 120 | Slight. |
| 29 | Poona | Z | iP | 14 25 07 | | Feeble, compression. |
| 29 | Shillong | Z | iP | 18 27 42 | | Slight, near. |
| 29 | Shillong | Z | eP | 19 44 30 | | Slight, near. |
| | Chatra | Z | eP S | 19 44 39 45 11 | 280 | Mild. |
| 29 | Shillong | Z | eP | 20 04 57 | | Slight, distant. |
| | Chatra | Z | eP | 20 06 31 | | Feeble, distant. |
| 29 | Poona | Z | iPKP | 21 43 33 | | Feeble, rarefaction. |
| | Chatra | Z | iPKP | 21 43 56 | | Feeble, compression. |
| | Shillong | Z | iPKP | 21 43 57 | | Slight, distant, compression. |
| 29 | Shillong | Z | i | 22 54 00 | | Slight, distant. |
| 29 | Shillong | Z | eP | 23 13 20 | | Slight, distant. |
| 30 | Shillong | Z | e eP | 02 51 51 52 28 | | Slight, distant. |
| 30 | Shillong | Z | e | 05 11 48 | | Slight, distant. |
| 30 | Shillong | Z | iPg iSg | 05 20 12 20 24 | 100 | Slight, compression. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|---|-------|---|----------------------------|-----------------|---------------------------------------|
| <u>May, 1960.</u> | | | | | | |
| 30 | Shillong | Z | e | 10 56 22 | | Slight, distant. |
| 30 | Shillong | Z | eP iSg | 11 45 44 45 53 | 90 | Slight. |
| 30 | Shillong | Z | eP | 15 56 36 | | Slight, distant. |
| 30 | Shillong | Z | iP | 16 13 45 | | Slight, distant, Compression. |
| 30 | Tocklai | E | eP | 20 52 40 | | Slight, distant. |
| 30 | Shillong | Z | ePg iSg | 20 55 26 55 47 | 180 | Slight. |
| 31 | Chatra | Z | iP | 00 05 22 | | Feeble, distant, Compression. |
| 31 | Dehra Dun | NE | e e | 00 29 45 34 55 | | Feeble. |
| 31 | Poona | Z | iP | 01 28 14 | | Feeble, compression. |
| 31 | Epc: 39 $\frac{1}{2}$ S, 75 W, Chile. -H = 02 h. 40 m. 00 s. Mag: 6 (Berk). | | | | | |
| | Poona | Z | iPKP | 02 59 45 | | Rarefaction. |
| | Agra | Z | ePKP i | 02 59 57 03 03 58 | | Distant, rarefaction. |
| | Chatra | Z | ePKP ₁ PKP ₂ PP | 03 00 04 00 46 04 27 | 18130 | |
| | Shillong | Z | iPKP ₁ | 03 00 05 | | Distant, rarefaction. |
| | Dehra Dun | NE | e i i | 03 00 32 04 21 14 30 | | |
| | Hyderabad | N | M | 04 00 25 | | Period = 18 secs. Gr.dis:= 6 μ |
| 31 | Shillong | Z | eP | 05 05 13 | | Slight, distant. |
| 31 | Shillong | Z | iP i | 11 21 24 24 49 | | Slight, distant, rarefaction. |
| | Chatra | Z | e | 11 21 25 | | Feeble. |
| | Dehra Dun | NE | e e | 11 22 34 12 08 02 | | Feeble. |
| 31 | Shillong | Z | iP | 13 22 12 | | Slight, distant, compression. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-------------------|---|-------|--------------|----------------------------|-----------------|----------------------------------|
| <u>May, 1960.</u> | | | | | | |
| 31 | Chatra contd. | Z | iP | 13 22 47 | | Feeble, distant, compression. |
| | Dehra Dun | NE | e | 13 23 34 | | Tremor. |
| 31 | Port Blair | N | i | 13 57 04 | | Slight, local. |
| 31 | Shillong | Z | e | 14 14 14 | | Slight, distant. |
| 31 | Shillong | Z | e | 14 43 04 | | Tremor. |
| 31 | Chatra | Z | P | 16 39 51 | | Feeble, distant. |
| | Shillong | Z | e | 16 39 52 | | Slight, distant. |
| 31 | Epc: $5\frac{1}{2}^{\circ}$ S, $109\frac{1}{2}^{\circ}$ E, Java Sea, -H = 21 h. 00 m. 40 s. (U.S.C.G.S.) h = about 600 kms. | | | | | |
| | Tocklai | E | eP | 21 06 37 | | Slight, distant. |
| | Shillong | Z | iP | 21 06 55 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP i i | 21 07 23 09 19 12 13 | | Feeble. |
| | Poona | Z | eP | 21 07 50 | | Feeble. |
| | Dehra Dun | NE | eP eS | 21 08 23 14 28 | 5520 | Feeble. |
| 31 | Tocklai | E | iP | 21 11 29 | | Slight, distant, rarefaction. |

Earthquakes Report
(Non-Instrumental)

The following is the list of earthquakes that are reported by the voluntary Observers from the different stations during the month of May, 1960.

| Place | Date | Time in G. M. T. | No. of shock. | Duration of shock. | Intensity in R.F. Scale | Remarks. |
|--------------------|---------|---------------------|--|-----------------------|----------------------------|----------|
| Shillong | 9.5.60 | 14 37 | One | About 20 secs. | IV | |
| Rupsi | 9.5.60 | 14 35 | Two | 2 secs. | IV | |
| Cooch-Bihar | -do- | 14 37 | One | about 5 secs. | IV | |
| Shillong | 26.5.60 | 20 05 | One | about 20 secs. | IV | |
| Dibrugarh | 26.5.60 | 20 18 | One | about 15 secs. | IV | |
| Lumding | 26.5.60 | 20 20 | One | about 15 secs. | IV | |
| Haf long | 26.5.60 | 20 02 | One | 50 secs. | IV | |
| Guhati | 26.5.60 | 20 05 | One | about one mt. | IV | |
| North Lakhimpur | 26.5.60 | 20 04 | Two shocks at an interval of three secs. | 5 secs. | V | |
| Shillong | 27.5.60 | 00 13 | One | 2 secs. | III | |

MICROSEISMIC TABULATION

Station : Shillong

Component : E.W.

Month : May, 1960.

| DATE | Hour G.M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. | DATE | Hour G.M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. |
|------|----------------|-----|--|---------------------------|------|----------------|-----|--|---------------------------|
| 01 | 00 | ... | - | - | 12 | 00 | 3 | 0.2 | 4.1 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.3 | 4.4 |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.3 | 4.5 |
| | 18 | 1 | 0.2 | 4.1 | | 18 | 3 | 0.2 | 4.0 |
| 02 | 00 | 1 | 0.2 | 4.0 | 13 | 00 | ... | - | - |
| | 06 | ... | - | - | | 06 | 3 | 0.3 | 5.0 |
| | 12 | ... | - | - | | 12 | 3 | 0.2 | 4.3 |
| | 18 | ... | - | - | | 18 | 3 | 0.3 | 4.8 |
| 03 | 00 | ... | - | - | 14 | 00 | 3 | 0.3 | 5.0 |
| | 06 | 1 | 0.2 | 4.0 | | 06 | 3 | 0.2 | 4.1 |
| | 12 | 1 | 0.2 | 4.2 | | 12 | 3 | 0.2 | 4.3 |
| | 18 | 1 | 0.2 | 4.6 | | 18 | 3 | 0.3 | 5.0 |
| 04 | 00 | 1 | 0.2 | 4.5 | 15 | 00 | 3 | 0.3 | 5.2 |
| | 06 | 3 | 0.3 | 4.7 | | 06 | 3 | 0.3 | 5.3 |
| | 12 | 1 | 0.4 | 5.2 | | 12 | 3 | 0.4 | 5.5 |
| | 18 | 1 | 0.4 | 5.3 | | 18 | 3 | 0.4 | 5.4 |
| 05 | 00 | 1 | 0.4 | 5.3 | 16 | 00 | 3 | 0.3 | 5.0 |
| | 06 | 1 | 0.4 | 5.5 | | 06 | 1 | 0.3 | 4.8 |
| | 12 | 1 | 0.4 | 5.1 | | 12 | 1 | 0.4 | 5.2 |
| | 18 | 1 | 0.3 | 4.8 | | 18 | 1 | 0.4 | 5.3 |
| 06 | 00 | 1 | 0.3 | 5.0 | 17 | 00 | 3 | 0.4 | 5.5 |
| | 06 | 1 | 0.2 | 4.0 | | 06 | 3 | 0.4 | 5.3 |
| | 12 | 1 | 0.2 | 3.8 | | 12 | 3 | 0.4 | 5.4 |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.4 | 5.3 |
| 07 | 00 | 0,0 | - | - | 18 | 00 | 1 | 0.4 | 5.5 |
| | 06 | 3 | 0.2 | 4.0 | | 06 | 1 | 0.5 | 5.5 |
| | 12 | 3 | 0.2 | 3.9 | | 12 | 1 | 0.5 | 5.6 |
| | 18 | 3 | 0.2 | 3.7 | | 18 | 1 | 0.4 | 5.2 |
| 08 | 00 | 3 | 0.2 | 4.0 | 19 | 00 | 1 | 0.4 | 5.0 |
| | 06 | 0,0 | - | - | | 06 | 1 | 0.4 | 5.1 |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 3 | 0.2 | 3.9 | | 18 | 1 | 0.4 | 5.0 |
| 09 | 00 | 3 | 0.2 | 4.1 | 20 | 00 | 1 | 0.3 | 4.8 |
| | 06 | ... | - | - | | 06 | 1 | 0.3 | 4.3 |
| | 12 | ... | - | - | | 12 | ... | - | - |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.4 | 5.0 |
| 10 | 00 | 0,0 | - | - | 21 | 00 | 1 | 0.4 | 5.1 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.3 | 4.0 |
| | 12 | 3 | 0.2 | 4.2 | | 12 | ... | - | - |
| | 18 | 3 | 0.2 | 4.0 | | 18 | ... | - | - |
| 11 | 00 | 1 | 0.3 | 4.8 | 22 | 00 | ... | - | - |
| | 06 | 3 | 0. | 4.2 | | 06 | ... | - | - |
| | 12 | 1 | 0.2 | 4.3 | | 12 | ... | - | - |
| | 18 | 1 | 0.3 | 4.6 | | 18 | ... | - | - |

Station : Shillong (contd.)

II

Month: May, 1960.

| DATE | Hour G.M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. | DATE | Hour G.M.T. | K | Mean simple ampli- tude in m.m. | Mean period in sec. |
|------|----------------|-----|--|---------------------------|--|----------------|---|---|---------------------------|
| | | | | | Station : Bombay (Colaba) Component: EH. | | | | |
| 23 | 00 | ... | - | - | | | | | |
| | 06 | ... | - | - | | | | | |
| | 12 | 1 | 0.4 | 4.8 | 01 | 00 | 1 | 0.4 | 2.6 |
| | 18 | 1 | 0.4 | 4.6 | | 03 | 1 | 0.4 | 2.6 |
| | | | | | | 06 | 1 | 0.5 | 2.8 |
| 24 | 00 | 1 | 0.3 | 4.3 | | 09 | 1 | 0.5 | 2.7 |
| | 06 | 1 | 0.4 | 4.2 | | 12 | | 0.4 | 2.5 |
| | 12 | 1 | 0.4 | 4.1 | | | | 0.5 | 5.3 |
| | 18 | 1 | 0.4 | 4.2 | | 18 | 3 | 0.5 | 5.7 |
| | | | | | | | | 0.5 | 2.8 |
| 25 | 00 | 1 | 0.4 | 4.2 | | | | | |
| | 06 | 1 | 0.4 | 4.2 | 02 | 00 | 3 | 0.5 | 5.7 |
| | 12 | 1 | 0.4 | 4.1 | | | | 0.4 | 2.7 |
| | 18 | 1 | 0.4 | 4.2 | | 06 | 3 | 0.4 | 2.8 |
| | | | | | | | | 0.2 | 2.0 |
| 26 | 00 | 1 | 0.3 | 4.0 | | 12 | 3 | 0.6 | 2.8 |
| | 06 | ... | - | - | | | | 0.3 | 1.9 |
| | 12 | 1 | 0.4 | 4.0 | | 18 | 3 | 0.7 | 4.3 |
| | 18 | 1 | 0.4 | 4.1 | | | | 0.6 | 2.5 |
| | | | | | | | | | |
| 27 | 00 | 1 | 0.4 | 4.0 | 03 | 00 | 1 | 0.8 | 2.7 |
| | 03 | 1 | 0.4 | 4.1 | | 03 | 1 | 0.8 | 2.9 |
| | 06 | 1 | 0.4 | 4.2 | | 06 | 1 | 0.7 | 2.9 |
| | 09 | 1 | 0.5 | 4.0 | | 09 | 1 | 0.7 | 2.6 |
| | 12 | 1 | 0.5 | 4.2 | | 12 | 1 | 0.7 | 2.9 |
| | 15 | 1 | 0.5 | 4.4 | | 15 | 1 | 0.8 | 2.9 |
| | 18 | 1 | 0.5 | 4.2 | | 18 | 1 | 0.7 | 2.7 |
| | 21 | 1 | 0.6 | 4.5 | | 21 | 1 | 0.7 | 2.7 |
| | | | | | | | | | |
| 28 | 00 | 1 | 0.6 | 4.7 | 04 | 00 | 1 | 0.8 | 2.6 |
| | 03 | ... | - | - | | 03 | 1 | 0.9 | 3.0 |
| | 06 | ... | - | - | | 06 | 1 | 0.8 | 2.9 |
| | 09 | ... | - | - | | 09 | 1 | 0.8 | 3.0 |
| | 12 | 1 | 0.6 | 5.0 | | 12 | 1 | 0.7 | 2.6 |
| | 15 | 1 | 0.5 | 4.8 | | 15 | 1 | 0.7 | 2.6 |
| | 18 | 1 | 0.5 | 4.8 | | 18 | 1 | 0.6 | 2.5 |
| | 21 | 1 | 0.5 | 4.6 | | 21 | 1 | 0.7 | 2.6 |
| | | | | | | | | | |
| 29 | 00 | 1 | 0.4 | 4.4 | 05 | 00 | 1 | 0.7 | 2.7 |
| | 06 | 1 | 0.4 | 4.5 | | 03 | 1 | 0.8 | 2.8 |
| | 12 | 1 | 0.4 | 4.3 | | 06 | 1 | 0.7 | 2.9 |
| | 18 | 1 | 0.4 | 4.6 | | 09 | 1 | 0.7 | 2.9 |
| | | | | | | 12 | 1 | 0.6 | 2.7 |
| 30 | 00 | 1 | 0.3 | 4.5 | | 15 | 1 | 0.8 | 2.6 |
| | 06 | 1 | 0.4 | 4.5 | | 18 | 1 | 0.7 | 2.7 |
| | 12 | 1 | 0.4 | 4.4 | | 21 | 1 | 0.7 | 2.7 |
| | 18 | 1 | 0.4 | 4.5 | | | | | |
| | | | | | | | | | |
| 31 | 00 | 1 | 0.4 | 4.7 | 06 | 00 | 1 | 0.9 | 2.6 |
| | 06 | 1 | 0.3 | 4.2 | | 03 | 1 | 0.9 | 2.9 |
| | 12 | 3 | 0.4 | 4.7 | | 06 | 1 | 1.0 | 3.0 |
| | 18 | 3 | 0.4 | 4.8 | | 09 | 1 | 0.6 | 3.1 |
| | | | | | | 12 | 1 | 0.8 | 3.0 |
| | | | | | | 15 | 1 | 0.8 | 2.9 |
| | | | | | | 18 | 1 | 0.7 | 2.9 |
| | | | | | | 21 | 1 | 0.6 | 3.1 |

Station : Bombay (Colaba) contd.

Month : May, 1960.

| Date | Hour GMT | K | Mean Simple Amplitude in in m.m. | Mean Period in Sec. | Date | Hour GMT | K | Mean Simple Amplitude in in m.m. | Mean Period in Sec. |
|------|-------------|-----|---|------------------------------|------|-------------|-----|---|------------------------------|
| 07 | 00 | 1 | 0.6 | 2.9 | 13 | 00 | ... | - | - |
| | 06 | ... | - | - | | 06 | 3 | 0.5 | 3.8 |
| | 12 | 3 | 0.4 | 3.2 | | | | 0.3 | 2.2 |
| | | | 0.3 | 1.7 | | 12 | 3 | 0.5 | 3.7 |
| | 18 | 3 | 0.6 | 4.0 | | | | 1.8 | 2.1 |
| | | | 0.4 | 1.6 | | 18 | 3 | 0.5 | 3.7 |
| | | | | | | | | 0.2 | 1.6 |
| 08 | 00 | 3 | 0.5 | 3.8 | 14 | 00 | 3 | 0.5 | 3.9 |
| | | | 0.3 | 1.5 | | | | 0.3 | 2.3 |
| | 06 | 3 | 0.5 | 3.8 | | 06 | 3 | 0.5 | 3.6 |
| | | | 0.3 | 1.5 | | | | 0.3 | 2.0 |
| | 09 | 1 | 0.6 | 1.8 | | 12 | 3 | 0.5 | 3.7 |
| | 12 | 1 | 0.9 | 1.9 | | | | 0.3 | 2.2 |
| | 15 | 1 | 0.7 | 1.9 | | 18 | 3 | 0.6 | 3.9 |
| | 18 | 1 | 0.4 | 1.9 | | | | 0.3 | 2.0 |
| 09 | 00 | 3 | 0.5 | 4.3 | 15 | 00 | 3 | 0.6 | 4.0 |
| | | | 0.2 | 1.8 | | | | 0.3 | 2.5 |
| | 06 | 3 | 0.5 | 4.3 | | 06 | 3 | 0.6 | 3.9 |
| | | | 0.3 | 2.0 | | | | 0.3 | 2.0 |
| | 12 | ... | - | - | | 12 | 3 | 0.7 | 6.4 |
| | 18 | 3 | 0.5 | 4.3 | | | | 0.9 | 3.6 |
| | | | 0.3 | 1.7 | | 18 | 3 | 0.6 | 7.1 |
| | | | | | | | | 0.9 | 3.8 |
| 10 | 00 | 3 | 0.5 | 3.3 | 16 | 00 | 3 | 0.8 | 4.3 |
| | | | 0.2 | 1.4 | | | | 0.2 | 1.5 |
| | 06 | 3 | 0.4 | 3.5 | | 06 | 3 | 1.0 | 4.3 |
| | | | 0.2 | 2.5 | | | | 0.2 | 1.7 |
| | 12 | 3 | 0.4 | 3.1 | | 12 | 3 | 1.1 | 4.3 |
| | | | 0.3 | 1.7 | | | | 0.2 | 1.7 |
| | 18 | 3 | 0.5 | 3.7 | | 18 | 3 | 1.2 | 4.3 |
| | | | 0.3 | 1.7 | | | | 0.2 | 1.7 |
| 11 | 00 | 3 | 0.4 | 2.8 | 17 | 00 | 1 | 1.5 | 4.4 |
| | | | 0.2 | 1.7 | | 03 | 1 | 1.5 | 4.7 |
| | 06 | 3 | 0.3 | 2.7 | | 06 | 1 | 1.3 | 4.9 |
| | | | 0.2 | 1.5 | | 09 | 1 | 1.4 | 4.8 |
| | 12 | 3 | 0.5 | 2.5 | | 12 | 1 | 1.4 | 4.7 |
| | | | 0.3 | 1.6 | | 15 | 1 | 1.6 | 4.9 |
| | 18 | 3 | 0.4 | 2.7 | | 18 | 1 | 1.5 | 5.2 |
| | | | 0.3 | 1.7 | | 21 | 1 | 2.0 | 5.2 |
| 12 | 00 | 3 | 0.5 | 2.3 | 18 | 00 | 1 | 2.3 | 5.2 |
| | | | 0.6 | 1.7 | | 03 | 1 | 2.2 | 4.9 |
| | 03 | 1 | 0.5 | 2.2 | | 06 | 1 | 2.0 | 5.4 |
| | 06 | 1 | 0.5 | 2.3 | | 09 | 1 | 1.9 | 4.7 |
| | 09 | 1 | 0.5 | 2.4 | | 12 | 1 | 1.9 | 5.1 |
| | 12 | 1 | 0.3 | 2.4 | | 15 | 1 | 1.8 | 4.6 |
| | 15 | 1 | 0.4 | 2.3 | | 18 | 1 | 1.8 | 4.3 |
| | 18 | 1 | 0.5 | 2.3 | | 21 | 1 | 1.6 | 4.8 |
| | 21 | 1 | 0.4 | 2.4 | | | | | |

Month : May, 1960.

Station : Bombay (Colaba) contd.

| Date | Hour GMT | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. | Date | Hour GMT | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. | | |
|------|----------|-----|-------------------------------|---------------------|------------|------------|-----|-------------------------------|---------------------|------------|------------|
| 19 | 00 | 1 | 1.7 | 4.1 | 26 | 00 | 3 | 1.0 0.6 | 4.0 2.3 | | |
| | 03 | 1 | 1.5 | 5.0 | | 06 | ... | - | - | | |
| | 06 | 1 | 1.5 | 4.6 | | 12 | 3 | 0.9 0.4 | 4.0 2.2 | | |
| | 09 | 1 | 1.4 | 4.4 | | 18 | 3 | 1.1 0.3 | 4.2 2.0 | | |
| | 12 | ... | - | - | | | | | | | |
| | 15 | 1 | 1.4 | 4.7 | | | | | | | |
| 20 | 00 | 3 | 1.2 0.9 | 4.4 2.6 | 27 | 00 | 3 | 0.3 0.3 | 3.9 2.2 | | |
| | 06 | 3 | 1.2 0.9 | 5.1 2.7 | | 06 | 3 | 1.0 0.4 | 3.7 2.3 | | |
| | 12 | ... | - | - | | 12 | 3 | 0.9 0.3 | 4.1 2.0 | | |
| | 18 | 3 | 1.3 0.9 | 5.0 2.6 | | 18 | 3 | 1.0 0.4 | 3.7 2.2 | | |
| | 21 | 00 | 3 | 1.1 1.0 | | 4.1 2.5 | 28 | 00 | 3 | 1.0 0.5 | 3.8 2.2 |
| | | 06 | 3 | 1.1 0.6 | | 3.9 2.0 | | 06 | 3 | 0.9 0.6 | 4.0 2.0 |
| 12 | | ... | - | - | 12 | 3 | | 0.9 0.4 | 3.5 1.7 | | |
| 18 | | 3 | 1.2 0.4 | 3.7 1.7 | 18 | 3 | | 0.9 0.4 | 4.1 1.8 | | |
| 22 | | 00 | 3 | 1.0 0.5 | 3.8 2.3 | 29 | | 00 | 3 | 1.0 0.5 | 4.2 2.2 |
| | | 06 | 3 | 1.1 0.7 | 3.9 2.5 | | | 06 | 3 | 1.3 0.5 | 4.3 1.9 |
| | 12 | ... | - | - | 12 | | 3 | 1.3 0.4 | 4.2 1.7 | | |
| | 18 | 3 | 1.2 0.9 | 3.8 2.5 | 18 | | 3 | 1.5 0.4 | 4.2 1.9 | | |
| | 23 | 00 | ... | - | - | | 30 | 00 | 1 | 1.7 | 4.2 |
| | | 03 | ... | - | - | | | 03 | 1 | 1.6 | 4.0 |
| 06 | | ... | - | - | 06 | 1 | | 1.7 | 4.3 | | |
| 09 | | ... | - | - | 09 | 1 | | 1.8 | 4.3 | | |
| 12 | | ... | - | - | 12 | 1 | | 1.6 | 4.4 | | |
| 15 | | 1 | 1.1 | 4.2 | 15 | 1 | | 1.8 | 4.5 | | |
| 18 | | 1 | 1.2 | 4.2 | 18 | 1 | | 1.7 | 4.3 | | |
| 21 | | 1 | 1.1 | 4.2 | 21 | 1 | | 1.7 | 4.5 | | |
| 24 | 00 | 1 | 1.1 | 3.9 | 31 | 00 | 1 | 1.7 | 4.4 | | |
| | 06 | 3 | 1.1 0.5 | 3.5 1.8 | | 03 | ... | - | - | | |
| | 12 | 3 | 1.2 0.7 | 3.9 2.2 | | 06 | 1 | 1.7 | 4.3 | | |
| | 18 | 3 | 1.2 0.6 | 3.5 2.3 | | 09 | 1 | 1.7 | 4.4 | | |
| | 25 | 00 | 3 | 1.0 0.5 | | 3.9 2.4 | 12 | 1 | 1.7 | 4.6 | |
| | | 06 | 3 | 1.2 0.4 | | 3.9 2.5 | 15 | 1 | 1.6 | 4.5 | |
| 12 | | 3 | 1.1 0.6 | 3.7 2.1 | 18 | 1 | 1.6 | 4.4 | | | |
| 18 | | 3 | 1.2 0.6 | 4.2 2.3 | 21 | 1 | 1.6 | 4.3 | | | |

V

Station : Madras

Component : E-W

Month: May, 1960.

| Date | Hour | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. | Date | Hour | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. |
|------|------|-----|-------------------------------|---------------------|------|------|-----|-------------------------------|---------------------|
| 01 | 00 | 3 | 0.2 | 2.7 | | | | | |
| | 03 | ... | - | - | 10 | 00 | 1 | 0.5 | 2.6 |
| | 06 | ... | - | - | | 03 | 1 | 0.5 | 2.6 |
| | 12 | ... | - | - | | 06 | 1 | 0.5 | 2.6 |
| | 18 | 3 | 0.2 | 2.6 | | 12 | 1 | 0.4 | 2.6 |
| 02 | 00 | 3 | 0.2 | 2.6 | | 18 | 1 | 0.5 | 2.7 |
| | 03 | 3 | 0.3 | 2.7 | 11 | 00 | 1 | 0.4 | 2.7 |
| | 06 | 3 | 0.3 | 2.7 | | 03 | 1 | 0.5 | 2.7 |
| | 12 | 3 | 0.3 | 2.7 | | 06 | 1 | 0.4 | 2.6 |
| | 18 | 3 | 0.3 | 2.9 | | 12 | 1 | 0.5 | 2.5 |
| 03 | 00 | 3 | 0.2 | 2.9 | | 18 | 1 | 0.5 | 2.7 |
| | 03 | 3 | 0.3 | 2.9 | 12 | 00 | 3 | 0.5 | 2.7 |
| | 06 | 3 | 0.4 | 2.8 | | 03 | 3 | 0.5 | 2.8 |
| | 12 | 3 | 0.3 | 2.7 | | 06 | 3 | 0.4 | 2.5 |
| | 18 | 3 | 0.4 | 3.0 | | 12 | 3 | 0.3 | 2.5 |
| 04 | 00 | 3 | 0.3 | 2.6 | | 18 | 3 | 0.5 | 3.7 |
| | 03 | 3 | 0.3 | 2.8 | | | 3 | 0.1 | 1.7 |
| | 06 | 3 | 0.3 | 2.6 | 13 | 00 | 3 | 0.3 | 3.7 |
| | 12 | 3 | 0.2 | 2.1 | | | 3 | 0.1 | 1.5 |
| | 18 | 3 | 0.3 | 2.5 | | 03 | 3 | 0.4 | 3.5 |
| 05 | 00 | 3 | 0.3 | 2.7 | | | 3 | 0.2 | 1.7 |
| | 03 | 1 | 0.5 | 2.8 | | 06 | 3 | 0.2 | 3.7 |
| | 06 | 1 | 0.4 | 2.8 | | | 3 | 0.2 | 1.9 |
| | 12 | 1 | 0.6 | 2.7 | | 12 | 3 | 0.1 | 1.5 |
| | 18 | 1 | 0.6 | 3.0 | | 18 | 3 | 0.2 | 2.8 |
| 06 | 00 | 1 | 0.6 | 2.9 | | | 3 | 0.2 | 1.4 |
| | 03 | 1 | 0.7 | 3.1 | 14 | 00 | 3 | 0.1 | 1.5 |
| | 06 | 1 | 0.7 | 3.1 | | 03 | 3 | 0.1 | 1.5 |
| | 12 | 1 | 0.7 | 3.1 | | 06 | ... | - | - |
| | 18 | 1 | 0.6 | 3.1 | | 12 | 3 | 0.1 | 1.6 |
| 07 | 00 | 1 | 0.4 | 2.9 | | | 3 | 0.4 | 3.0 |
| | 03 | 3 | 0.4 | 3.1 | | 18 | 3 | 0.4 | 3.5 |
| | 06 | 3 | 0.4 | 3.0 | | | 3 | 0.1 | 1.3 |
| | 12 | 3 | 0.4 | 3.0 | 15 | 00 | 3 | 0.4 | 3.4 |
| | 18 | 3 | 0.5 | 3.1 | | | 3 | 0.2 | 1.5 |
| 08 | 00 | 3 | 0.4 | 3.1 | | 03 | 3 | 0.2 | 1.9 |
| | 03 | 3 | 0.5 | 3.1 | | 06 | ... | - | - |
| | 06 | 3 | 0.5 | 3.1 | | 12 | 3 | 0.5 | 3.7 |
| | 12 | 3 | 0.3 | 2.5 | | 18 | 3 | 0.5 | 3.8 |
| | 18 | 3 | 0.3 | 2.8 | | | 3 | 0.1 | 1.7 |
| 09 | 00 | 3 | 0.3 | 2.6 | 16 | 00 | 3 | 0.5 | 3.6 |
| | 03 | 3 | 0.4 | 2.5 | | | 3 | 0.1 | 1.4 |
| | 06 | 3 | 0.4 | 2.5 | | 03 | 3 | 0.5 | 3.8 |
| | 12 | 3 | 0.4 | 2.4 | | | 3 | 0.1 | 1.5 |
| | 18 | 1 | 0.5 | 2.6 | | 06 | 3 | 0.5 | 4.1 |
| | | | | | | | 3 | 0.2 | 1.7 |
| | | | | | | 12 | 3 | 0.5 | 4.1 |
| | | | | | | | 3 | 0.1 | 1.8 |
| | | | | | | 18 | 3 | 0.6 | 4.4 |
| | | | | | | | 3 | 0.2 | 1.9 |

VI

Station : Madras (Contd.)

Component : E-W.

Month : May, 1960.

| Date | Hour G.M.T. | K | Mean simple ampli- tude in m.m. | Mean period in sec. | Date | Hour G.M.T. | K | Mean simple ampli- tude in m.m. | Mean period in sec. |
|------|----------------|---|---|---------------------------|------|----------------|----|---|---------------------------|
| 17 | 00 | 3 | 0.7 | 4.4 | 24 | 00 | 3 | 0.8 | 2.8 |
| | | 3 | 0.1 | 1.6 | | | 3 | 0.9 | 4.2 |
| | 03 | 3 | 0.7 | 4.7 | | 03 | 3 | 0.7 | 2.8 |
| | 06 | 3 | 0.9 | 4.7 | | 06 | 3 | 0.8 | 3.8 |
| | 12 | 1 | 0.9 | 4.9 | | 12 | 3 | 0.6 | 2.7 |
| | 18 | 1 | 1.1 | 5.8 | | 18 | 3 | 0.9 | 4.0 |
| 18 | 00 | 1 | 1.3 | 5.8 | 25 | 00 | 1 | 1.2 | 3.3 |
| | | 3 | 1.5 | 5.8 | | | 03 | 1 | 1.3 |
| | 03 | 1 | 1.3 | 6.0 | | 06 | 1 | 1.2 | 3.0 |
| | 06 | 3 | 0.3 | 2.3 | | 12 | 1 | 1.3 | 2.9 |
| | 12 | 1 | 1.2 | 5.9 | | 18 | 3 | 1.3 | 3.8 |
| | 18 | 1 | 1.3 | 5.9 | | 18 | 1 | 1.0 | 2.8 |
| 19 | 00 | 3 | 1.0 | 5.7 | 26 | 00 | 3 | 0.7 | 2.7 |
| | | 3 | 0.2 | 1.5 | | | 03 | 3 | 0.9 |
| | 03 | 3 | 0.9 | 5.4 | | 06 | 3 | 0.7 | 2.9 |
| | 06 | 3 | 0.9 | 5.7 | | 12 | 3 | 0.9 | 3.7 |
| | 12 | 3 | 0.8 | 5.5 | | 18 | 1 | 0.9 | 2.8 |
| | 18 | 3 | 0.9 | 5.4 | | 18 | 1 | 0.7 | 2.7 |
| 20 | 00 | 3 | 0.7 | 4.9 | 27 | 00 | 3 | 0.7 | 2.8 |
| | | 3 | 0.3 | 2.5 | | | 03 | 3 | 0.8 |
| | 03 | 3 | 0.7 | 4.9 | | 06 | 3 | 0.7 | 2.7 |
| | 06 | 3 | 0.4 | 2.8 | | 12 | 3 | 0.7 | 3.5 |
| | 12 | 3 | 0.7 | 5.0 | | 18 | 3 | 0.7 | 2.7 |
| | 18 | 3 | 0.4 | 2.8 | | 18 | 3 | 0.9 | 3.4 |
| 21 | 00 | 3 | 0.7 | 4.8 | 28 | 00 | 3 | 0.6 | 2.6 |
| | | 3 | 0.7 | 4.8 | | | 03 | 3 | 0.8 |
| | 03 | 1 | 0.5 | 2.6 | | 06 | 3 | 0.6 | 2.7 |
| | 06 | 1 | 0.5 | 2.7 | | 12 | 3 | 0.7 | 2.8 |
| | 12 | 3 | 0.6 | 2.8 | | 18 | 3 | 0.6 | 2.8 |
| | 18 | 3 | 0.7 | 2.9 | | 18 | 3 | 0.4 | 2.1 |
| 22 | 00 | 3 | 0.8 | 4.8 | 29 | 00 | 3 | 0.6 | 3.6 |
| | | 1 | 0.5 | 2.6 | | | 03 | 3 | 0.6 |
| | 03 | 1 | 0.5 | 2.7 | | 06 | 3 | 0.8 | 3.8 |
| | 06 | 1 | 0.6 | 2.8 | | 12 | 3 | 0.7 | 2.9 |
| | 12 | 3 | 0.7 | 4.8 | | 18 | 3 | 0.8 | 3.9 |
| | 18 | 3 | 0.7 | 2.9 | | 18 | 3 | 0.7 | 2.8 |
| 23 | 00 | 3 | 0.7 | 3.1 | 30 | 00 | 3 | 0.6 | 3.6 |
| | | 3 | 0.7 | 4.0 | | | 03 | 3 | 0.6 |
| | 03 | 1 | 0.8 | 3.1 | | 06 | 3 | 0.7 | 2.9 |
| | 06 | 1 | 0.9 | 2.8 | | 12 | 3 | 0.8 | 3.9 |
| | 12 | 3 | 0.9 | 2.8 | | 18 | 3 | 0.7 | 2.8 |
| | 18 | 3 | 0.8 | 3.3 | | 18 | 3 | 0.9 | 4.0 |

VII

Station : Madras (contd.)

MONTH : May, 1960.

| Date | Hour GMT | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. | Date | Hour GMT | K | Mean Simple Amplitude in m.m. | Mean Period in Sec. |
|------|----------|---|-------------------------------|---------------------|------|----------|-----|-------------------------------|---------------------|
| 30 | 00 | 1 | 1.4 | 2.6 | 31 | 00 | 3 | 1.1 | 4.8 |
| | 05 | 1 | 1.1 | 2.5 | | 03 | ... | - | - |
| | 06 | 1 | 0.9 | 2.4 | | 06 | 3 | 0.9 | 4.6 |
| | 12 | 3 | 0.5 | 2.4 | | 12 | 1 | 1.2 | 5.1 |
| | | 3 | 1.0 | 4.5 | | 18 | 1 | 1.5 | 5.0 |
| | 18 | 3 | 1.0 | 4.7 | | | | | |

Station : Bokaro

Month : May, 1960.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 15 | 06 | 3 | 0.5 | 4.1 | 24 | 12 | 3 | 0.4 | 4.3 |
| | 12 | 3 | 0.4 | 4.1 | | 18 | 3 | 0.3 | 4.3 |
| | 18 | 3 | 0.4 | 4.2 | | | | | |
| 16 | 00 | 3 | 0.6 | 4.5 | 25 | 00 | 3 | 0.4 | 4.2 |
| | 06 | 3 | 0.4 | 4.8 | | 06 | 3 | 0.3 | 3.2 |
| | 12 | 2 | 0.5 | 6.5 | | 12 | 3 | 0.4 | 4.4 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.4 | 4.0 |
| 17 | 00 | 3 | 0.4 | 5.0 | 26 | 00 | 3 | 0.4 | 3.5 |
| | 06 | 3 | 0.5 | 4.7 | | 06 | ... | - | - |
| | 12 | 2 | 0.5 | 5.5 | | 12 | 3 | 0.3 | 3.5 |
| | 18 | 2 | 0.5 | 6.5 | | 18 | 3 | 0.4 | 3.4 |
| 18 | 00 | 2 | 0.6 | 6.3 | 27 | 00 | 3 | 0.5 | 3.2 |
| | 06 | 2 | 0.7 | 6.3 | | 06 | 2 | 0.6 | 3.5 |
| | 12 | 2 | 0.7 | 6.0 | | 12 | 3 | 0.6 | 3.0 |
| | 18 | 2 | 0.8 | 6.0 | | 18 | 3 | 0.5 | 2.8 |
| 19 | 00 | 2 | 0.8 | 6.0 | 28 | 00 | 2 | 0.7 | 3.3 |
| 20 | 06 | 3 | 0.5 | 5.5 | | 06 | 3 | 0.8 | 4.0 |
| | 12 | ... | - | - | | 12 | 3 | 0.5 | 4.0 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.5 | 3.3 |
| 21 | 00 | 0,0 | - | - | 29 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 4.5 | | 06 | 0,0 | - | - |
| | 12 | ... | - | - | | 12 | 3 | 0.3 | 3.0 |
| | 18 | 3 | 0.4 | 3.0 | | 18 | 3 | 0.5 | 4.0 |
| 22 | 00 | 3 | 0.4 | 3.2 | 30 | 00 | 3 | 0.5 | 4.7 |
| 23 | 06 | ... | - | - | | 06 | 3 | 0.5 | 4.5 |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.5 | 4.0 |
| | 18 | 3 | 0.5 | 4.3 | | 18 | 3 | 0.5 | 4.5 |
| 24 | 00 | 0,0 | - | - | 31 | 00 | 3 | 0.6 | 4.7 |
| | 06 | 3 | 0.5 | 4.4 | | 06 | 3 | 0.7 | 5.0 |
| | | | | | | 12 | 3 | 0.5 | 5.0 |
| | | | | | | 18 | 3 | 0.5 | 5.0 |

111

| Station : Fort Blair | | | | Component : W | | | | Month: May, 1960. | | | |
|----------------------|------|-------------|--------|---------------|------|-------------|--------|-------------------|------|-------------|--------|
| Date | Hour | Amplitude | Period | Date | Hour | Amplitude | Period | Date | Hour | Amplitude | Period |
| GMT | | in microns. | Sec. | GMT | | in microns. | Sec. | GMT | | in microns. | Sec. |
| 01 | 00 | 0.. | - | 12 | 00 | ... | - | | | | |
| | 06 | 0.. | - | | 06 | ... | - | | | | |
| | 12 | 0.. | - | | 12 | ... | - | | | | |
| | 18 | 0.. | - | | 18 | ... | - | | | | |
| 02 | 00 | 0.. | - | 13 | 00 | 0.. | - | | | | |
| | 06 | 0.. | - | | 06 | 0.. | - | | | | |
| | 12 | 0.. | - | | 12 | 0.. | - | | | | |
| | 18 | 0.. | - | | 18 | 0.. | - | | | | |
| 03 | 00 | 0.. | - | 14 | 00 | 0.. | - | | | | |
| | 06 | 0.. | - | | 06 | 0,0 | - | | | | |
| | 12 | 0.. | - | | 12 | 0,0 | - | | | | |
| | 18 | 0.. | - | | 18 | 0,0 | - | | | | |
| 04 | 00 | 0.. | - | 15 | 00 | 3 | 0.4 | | | 7.5 | |
| | 06 | 0.. | - | | 06 | 1 | 0.4 | | | 7.5 | |
| | 12 | 0.. | - | | 12 | 1 | 0.8 | | | 7.5 | |
| | 18 | 0.. | - | | 18 | 1 | 0.8 | | | 7.5 | |
| 05 | 00 | 0.. | - | 16 | 00 | 1 | 1.2 | | | 7.5 | |
| | 06 | 0.. | - | | 06 | 1 | 1.2 | | | 7.5 | |
| | 12 | 0.. | - | | 12 | 1 | 1.2 | | | 7.5 | |
| | 18 | 0.. | - | | 18 | 1 | 1.2 | | | 7.5 | |
| 06 | 00 | 0,0 | - | 17 | 00 | 1 | 1.2 | | | 7.5 | |
| | 06 | 0,0 | - | | 06 | 1 | 1.2 | | | 7.5 | |
| | 12 | 0,0 | - | | 12 | 1 | 0.8 | | | 7.5 | |
| | 18 | 0,0 | - | | 18 | 1 | 0.8 | | | 7.5 | |
| 07 | 00 | 0,0 | - | 18 | 00 | 1 | 0.4 | | | 7.5 | |
| | 06 | 0,0 | - | | 06 | 1 | 0.4 | | | 7.5 | |
| | 12 | 0,0 | - | | 12 | 0,0 | - | | | - | |
| | 18 | 0,0 | - | | 18 | 0,0 | - | | | - | |
| 08 | 00 | 0,0 | - | 19 | 00 | 0,0 | - | | | - | |
| | 06 | 1 | 0.4 | | 06 | 0,0 | - | | | - | |
| | 12 | 1 | 0.4 | | 12 | 0.. | - | | | - | |
| | 18 | ... | - | | 18 | 0.. | - | | | - | |
| 09 | 00 | 1 | 0.4 | 20 | 00 | 0.. | - | | | - | |
| | 06 | 1 | 0.4 | | 06 | 0,0 | - | | | - | |
| | 12 | 0,0 | - | | 12 | 0,0 | - | | | - | |
| | 18 | ... | - | | 18 | 3 | 0.4 | | | 3.2 | |
| 10 | 00 | ... | - | 21 | 00 | 3 | 0.4 | | | 3.2 | |
| | 06 | ... | - | | 06 | ... | - | | | - | |
| | 12 | ... | - | | 12 | 5 | 0.4 | | | 3.2 | |
| | 18 | ... | - | | 18 | 5 | 0.4 | | | 3.2 | |
| 11 | 00 | 0.. | - | 22 | 00 | ... | - | | | - | |
| | 06 | 0.. | - | | 06 | ... | - | | | - | |
| | 12 | 0.. | - | | 12 | ... | - | | | - | |
| | 18 | 0.. | - | | 18 | ... | - | | | - | |

IX

Station : Port Blair (Contd.)

Month : May, 1960.

| Date | Hour | K | Mean Simple Amplitude in micron | Mean Period in Sec. | Date | Hour | K | Mean Simple Amplitude in micron. | Mean Period in Sec. |
|------|------|-----|--|------------------------------|------|------|-----|---|------------------------------|
| 23 | 00 | ... | - | - | 27 | 12 | 3 | 0.8 | 3.4 |
| | 06 | 3 | 0.8 | 4.2 | | 18 | 3 | 0.4 | 3.3 |
| | 12 | 3 | 0.8 | 4.2 | | | | | |
| | 18 | 3 | 0.8 | 4.2 | 28 | 00 | 3 | 0.4 | 3.3 |
| 24 | 00 | 3 | 0.8 | 4.2 | | 06 | 3 | 0.4 | 3.4 |
| | 06 | 3 | 0.4 | 4.4 | | 12 | 3 | 0.4 | 3.4 |
| | 12 | 3 | 0.4 | 4.4 | | 18 | 3 | 0.4 | 3.4 |
| | 18 | 3 | 0.4 | 4.2 | 29 | 00 | 3 | 0.4 | 3.3 |
| 25 | 00 | 3 | 0.4 | 4.2 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 3.1 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 3.2 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.1 | 30 | 00 | 0,0 | - | - |
| 26 | 00 | 3 | 0.4 | 3.2 | | 06 | 0,0 | - | - |
| | 06 | ... | - | - | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.8 | 3.4 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.4 | 31 | 00 | 0,0 | - | - |
| 27 | 00 | 3 | 0.4 | 3.4 | | 06 | ... | - | - |
| | 06 | ... | - | - | | 12 | ... | - | - |
| | | | | | | 18 | ... | - | - |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

June, 1960



Published under the direction of
Shri P. R. Krishna Rao,
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| STATION | LATI- TUDE | LONGI- TUDE | HEIGHT a.s.l. (Metres) | LITHOGRAPHIC FOUNDATION | INSTRUMENT | COMPT. | PERIOD IN SECS | STATIC MAGNIFI- CATION | DAMPING RATIO | PAPER SPEED mm/min | |
|-------------|---------------|----------------|------------------------------|--|----------------------|--------|----------------------|------------------------------|------------------|--------------------------|----|
| Agra | | | | | Columbia | E | To=15 | | | 15 | |
| | | | | | Long Period | | Tg=100 | | | | |
| | | | | | -do- | N | To=15 | | | 15 | |
| | | | | | -do- | Z | Tg=8.5 | | | 15 | |
| | | | | | -do- | | To=15 | | | 15 | |
| | | | | | -do- | | Tg=70 | | | 15 | |
| Bombay | 18° 54' N | 72° 40' E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To=Tg=7 | secs | | 30 | |
| Bokaro | 23° 50' N | 85° 48' E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h=0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h=0.8 | 60 | |
| Calcutta | 22° 32' N | 88° 22' E | (1) 7 | (2) 6 | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Wood-Anderson | N | 2 | 870 | Critical | 30 | |
| | | | | | Omori-Ewing | N | 16 | 32 | | 25.4 | |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| | | | Alluvium | | | | | | | | |
| Chatra | 26° 50' N | 87° 10' E | 16.1 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| | | | | | Benioff | Z | To=0.72 | Tg=0.45 | Critical | 60 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| Colombo | 06° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - | |
| | | | | | | | | | | | |
| Dehra dun | 30° 19' N | 78° 02' E | 68.2 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| Hyderabad | 17° 25' N | 78° 27' E | 536 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| Kodaikanal | 10° 14' N | 77° 28' E | 2346 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| Madras | 13° 00' N | 80° 11' E | 15 | - | Sprengnether | E | To=Tg=72 | secs | Critical | 30 | |
| New Delhi | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | | |
| POONA | 18° 32' N | 73° 51' E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.6 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 15 | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| Port Blair | 11° 49' N | 92° 43' E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 55:1 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | |
| Shillong | 25° 34' N | 91° 53' E | 1500 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 | h=0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 60 | |
| | | | | | Sprengnether | E | To=Tg=5.5 | | Critical | 30 | |
| | | | | | Wenner Accelerograph | ZNE | | | | | |
| Tocklai | 28° 45' N | 94° 45' E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | |
| Vizianagram | 18° 07' N | 83° 27' E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|--------------------|--|-------|-------|----------------------|----------|--|
| <u>June, 1960.</u> | | | | | | |
| 01 | Chatra | Z | iP | 00 18 23 | 180 | Slight, rarefaction. |
| | | | Pg | 18 25 | | |
| | | | PP | 18 30 | | |
| | | NZ | S | 18 44 | | |
| 01 | Shillong | Z | eP | 00 19 22 | | Slight, distant. |
| 01 | Poona | Z | iP | 05 22 36 | | Feeble. |
| 01 | Colombo | E | e | 06 22 50 | | |
| | | | e | 25 40 | | |
| 01 | Hyderabad | E | M | 06 24 58 | | Period = 21 secs. Gr. dis : = 4 μ . |
| 01 | Shillong | Z | eP | 08 50 26 | | Slight, near. |
| 01 | Shillong | Z | eP | 14 26 46 | | Slight, distant. |
| 01 | Chatra | Z | Pg | 14 31 29 | 120 | Mild. |
| | | | Sg | 31 45 | | |
| 01 | Shillong | Z | eP | 14 46 59 | 220 | Slight. |
| | | | eSg | 47 32 | | |
| 01 | Chatra | Z | eP | 14 48 01 | | Mild. |
| 02 | Shillong | Z | iP | 01 59 19 | | Slight, rarefaction. |
| 02 | Chatra | Z | iP | 01 59 55 | | Mild, rarefaction. |
| 02 | Poona | Z | iP | 06 17 36 | | Tremor. |
| | Chatra | Z | eP | 06 17 58 | | Feeble, distant. |
| | Shillong | Z | iP | 06 18 04 | | Slight, distant, rarefaction. |
| | Dehra Dun | NE | e | 06 18 05 | | Feeble. |
| 02 | Calcutta | E | e | 07 16 11 | | Slight. |
| | | | e | 36 24 | | |
| | | | i | 40 00 | | |
| | Hyderabad | N | M | 07 16 48 | | Period = 21 secs. Gr. dis : = 4 μ . |
| | Chatra | Z | iPKP | 07 27 45 | | Slight, rarefaction. |
| | Dehra Dun | NE | e | 07 29 28 | | Feeble. |
| | | | e | 30 32 | | |
| 02 | Epc: $5\frac{1}{2}^{\circ}$ S, $151\frac{1}{2}^{\circ}$ E, New Britain. | | | | | |
| | - H = 07 h. 47 m. 11 s (USCGS). Mag : $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas). | | | | | |
| | Shillong | ZNE | eP | 07 57 59 | 7590 | Compression. |
| | | | PP | 59 18 | | |
| | | | S | 08 07 00 | | |
| | | | SKS | 07 20 | | |
| | | | SS | 09 01 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. | h. m. s. | km. | REMARKS. |
|------|------------|-------|-------|----------|----------|-----|---------------------------------------|
| 02 | Chatra | Z | eP | 07 58 27 | | | Feeble. |
| | Dehra Dun | NE | e | 07 59 22 | | | Tremor. |
| | Poona | Z | fP | 07 59 23 | | | Feeble. |
| | Bombay | E | eP | 07 59 29 | 9400 | | Slight. |
| | Colombo | E | M | 08 26 00 | | | amp. = 0.2 mm. |
| | Hyderabad | M | M | 08 30 42 | | | Period = 18 secs. Gr. dts: = 8 / 4 |
| 02 | Lockhat | E | eP | 08 50 49 | | | Slight, near. |
| 02 | Poona | Z | fP | 08 55 47 | | | Feeble. |
| 02 | Shillong | Z | fP | 12 39 59 | | | Slight, distant, compression. |
| | Dehra Dun | NE | e | 12 48 08 | | | Feeble. |
| | | | e | 52 37 | | | |
| | | | e | 56 46 | | | |
| | Poona | Z | fP | 12 48 21 | | | Tremor. |
| | Chatra | Z | fP | 12 49 22 | | | Feeble, distant, compression. |
| 02 | Poona | Z | fP | 18 32 56 | | | Tremor. |
| 02 | Shillong | Z | eP | 19 10 34 | | | Slight. |
| 02 | Dehra Dun | NE | e | 20 28 06 | | | Feeble. |
| | | | e | 29 34 | | | |
| | Chatra | Z | fP | 20 29 50 | | | Feeble, near rarefaction. |
| | Shillong | Z | fP | 20 30 34 | | | Slight, distant, compression. |
| 02 | Shillong | Z | eP | 20 57 30 | | | Slight. |
| 02 | Poona | Z | fP | 21 51 11 | | | Tremor. |
| 02 | Shillong | Z | eP | 22 59 05 | | | Slight, near. |
| 03 | Shillong | Z | eP | 01 58 57 | | | Slight. |
| 03 | Shillong | Z | eP | 12 17 59 | | | Slight. |
| 03 | Port Blair | N | e | 12 50 13 | | | Slight. |
| 03 | Port Blair | N | e | 12 56 27 | | | Slight. |

June, 1960.

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

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|---|---------|------------------|-------------------------------------|-----------------|---|
| <u>June, 1960.</u> | | | | | | |
| 03 | Epc: $41\frac{1}{2}^{\circ}$ N, $141\frac{1}{2}^{\circ}$ E, Near South Coast of Hokkaido, Japan. -h = 100 kms. -H = 16 h. 18 m. 04 s. (USCGS). | | | | | |
| | Tocklai | E | iP | 16 25 54 | | Tremor.distant. Initial ground motion East. |
| | Chatra | Z NE | iP S | 16 26 31 33 17 | 5240 | Feeble,compression. |
| | Shillong | Z | iP | 16 27 00 | | Slight,distant, compression. |
| | Dehra Dun | NE | e e | 16 27 15 34 27 | | Feeble. |
| | Agra | Z | iP | 16 27 17 | | Slight, near, compression. |
| | Poona | Z | iP | 16 28 19 | | Feeble. |
| 03 | Shillong | Z | eP | 17 11 32 | | Slight,distant. |
| 03 | Chatra | Z | eP | 17 25 00 | | Very mild. |
| 03 | Chatra | Z | eP | 18 37 36 | | Feeble. |
| 03 | Shillong | Z | eP | 18 38 15 | | Slight,distant. |
| 03 | Dehra Dun | NE | e | 23 54 30 | | Tremor. |
| 04 | Epc: 39° S, $73\frac{1}{2}^{\circ}$ W, Near Coast of Chile. - H = 03 h. 02 m. 49 s (USCGS). | | | | | |
| | Colombo | E | e e e | 03 23 38 27 28 27 35 | | |
| | Bombay | NE | e e | 03 25 58 29 45 | | Slight. |
| | Kodaikanal | E | i e e M | 03 27 56 29 26 29 59 30 29 | | Period = 10 secs. Gr.dis:= 13.7 μ . |
| | Dehra Dun | NE | e e | 03 28 23 32 46 | | Feeble. |
| | Madras | E | e | 03 29 29 | | |
| | Port Blair | N | e | 03 32 48 | | Slight. |
| 04 | Shillong | Z | iP | 04 26 49 | | Slight,distant, rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|--|--------|---|---|-----------------|---|
| <u>June, 1960.</u> | | | | | | |
| 04 | Shillong | Z | eP | 10 22 38 | | Slight, distant. |
| 04 | Chatra | Z | iP | 10 23 11 | | Feeble, distant, rarefaction. |
| 04 | Shillong | Z | eP | 16 12 55 | | Slight, near. |
| 04 | Shillong | Z | eP | 19 37 59 | | Slight, distant. |
| 04 | Shillong | Z | eP | 21 49 45 | | Slight, near. |
| 04 | Shillong | Z | iP | 22 44 59 | | Slight, distant, compression. |
| 05 | Shillong | Z | iP | 06 15 55 | | Slight, distant, rarefaction. |
| 05 | Shillong | Z | eP eSg | 09 08 22 08 38 | 140 | Slight. |
| 05 | Chatra | Z | iP | 12 02 49 | | Very feeble, compression. |
| 05 | Shillong | Z | iP | 16 01 28 | | Slight, distant, compression. |
| 05 | Shillong | Z | e | 20 48 26 | | Tremor. |
| 06 | Shillong | Z | eP eSg | 01 08 43 09 16 | 300 | Slight. |
| | Tocklai | E | eP | 01 09 01 | | Slight, near. |
| | Chatra | Z | iP | 01 09 45 | | Feeble, near. |
| 06 | Bombay | NE | e | 02 03 31 | | Slight, near. |
| 06 | Epc: $45\frac{1}{2}^{\circ}$ S, $73\frac{1}{2}^{\circ}$ W, Near Coast of Chile. - H = 05 h.55 m. 44 s. (USCGS). Mag: $6\frac{3}{4}$ (Pas), $6\frac{3}{4}$ -7 (Berk). | | | | | |
| | Kodaikanal | E | PP e e e i e PPS e SS SSS LQ LR M | 06 18 20 19 11 20 51 23 24 26 06 29 03 30 42 32 06 37 33 42 09 51 51 57 51 07 08 12 | 15670 | Period = 20 secs. Gr.dis := 40.5 μ |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. | |
|--------------------|------------|-------|-------------------------------|---|------------------------------------|--------------------------------------|----------------------------------|
| <u>June, 1960.</u> | | | | | | | |
| 06 | Poona | Z | ePKP ₁ | 06 15 19 | 16120 | | |
| | | N | ePP PPP PS PPS SS | 18 38 22 30 30 07 31 59 37 42 | | | |
| | Port Blair | E | e | 06 15 24 | | | |
| | | | e | 19 04 | | | |
| | | | e | 32 47 | | | |
| | | | e | 38 01 | | | |
| | | | e | 47 25 | | | |
| | | | e | 52 47 | | | |
| | | M | 07 02 54 | | Period = 22 sec Gr.dis := 117 μ | | |
| | Bombay | E | ePKP ₁ | 06 15 27 | 16110 | | |
| | | | NE | e PP PPP(2) eSS | | | 16 11 19 52 29 26 37 35 |
| | | N | M | 07 18 01 | | Period = 21 sec Gr.dis := 95 μ | |
| | | Agra | Z | PKP | 06 15 35 | | Distant. |
| | | | | i | 15 44 | | |
| | i | | 16 12 | | | | |
| | ZNE | | i | 16 30 | | | |
| | ZE | | i | 16 44 | | | |
| | N | | i | 16 47 | | | |
| | Z | i | 17 04 | | | | |
| | | | i | 17 28 | | | |
| | E | i | 17 50 | | | | |
| | N | i | 17 58 | | | | |
| | Chatra | Z | ePKP ₁ | 06 15 41 | 17780 | Period = 18.5 sec Gr.dis := 124 μ | |
| | | | PP | 20 05 | | | |
| | | NE | M | 07 29/30 | | | |
| | Shillong | ZNE | PKP ₁ | 06 15 43 | 17780 | | |
| | | E | SKS | 22 48 | | | |
| | | | ScS, PKP | 31 15 | | | |
| | | | SS | 40 17 | | | |
| | Hyderabad | E | e | 06 15 44 | | | |
| | | | e | 33 30 | | | |
| | | | M | 07 06 18 | | Period = 14 sec Gr.dis := 49 μ | |
| | Calcutta | NE | ePKP ₁ | 06 15 47 | | | |
| | | | PKP ₂ | 16 15 | | | |
| | | E | iPP | 19 46 | | | |
| | | | e | 32 55 | | | |
| | | | i | 39 44 | | | |
| | Dehra Dun | NE | e | 06 15 50 | | | |
| | | | i | 20 41 | | | |
| | | | i | 21 58 | | | |
| | | | i | 23 23 | | | |
| | | | i | 27 49 | | | |
| | | | i | 29 44 | | | |
| | | | i | 31 11 | | | |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|----------------------------------|-------|-------------------|----------------------|-----------------|-------------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 06 | Colombo | E | e | 06 15 50 | | |
| | | | e | 19 25 | | |
| | | | e | 36 05 | | |
| | | | e | 52 33 | | |
| | | | e | 59 52 | | |
| | | | M | 07 05 00 | | Amp. 7.0 m.m. |
| | Vizianagram | N | iPKP ₁ | 06 16 42 | | Very distant. |
| | Madras | E | e | 06 18 53 | | Very distant. |
| | | | i | 30 48 | | |
| 06 | Chatra | Z | iP S | 11 07 26 07 44 | 130 | Mild, compression. |
| 06 | Dehra Dun | NE | e | 11 25 52 | | Tremor. |
| 06 | Tocklai | E | iP iS | 21 04 11 04 45 | 300 | Slight, initial ground motion East. |
| | Shillong | Z | iP | 21 04 29 | | |
| | Chatra | Z | iP | 21 05 29 | | Mild, near rarefaction. |
| 07 | Shillong | Z | e | 05 01 47 | | Slight. |
| 07 | Shillong | Z | ePg eSg | 04 01 15 01 22 | 50 | Slight. |
| 07 | Shillong | Z | iP | 05 53 10 | | Slight, distant, compression. |
| 07 | Chatra | Z | iP | 05 53 27 | | Feeble, rarefaction. |
| 07 | Shillong | Z | iP | 11 27 51 | | Slight, distant, compression. |
| 07 | Shillong | Z | e e | 13 06 34 06 52 | | Slight. |
| 07 | Chatra | Z | iP | 13 07 09 | | Feeble, distant, compression. |
| 07 | Poona | Z | iP | 13 15 38 | | Feeble, compression. |
| | Chatra | Z | iP | 13 15 58 | | Very feeble, compression. |
| | Shillong | Z | eP | 13 15 58 | | Slight, distant. |
| 07 | Shillong | Z | eP | 14 51 57 | | Slight, distant. |
| 07 | Epc: 14° N, 57° E, Arabian Sea. | | | | | |
| | - H = 15 h. 34 m. 50 s. (USCGS). | | | | | |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|-----------|-------|-----------|----------------------|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 07 | Bombay | NE | eP | 15 38 40 | 1970 | Slight. |
| | | E | i | 39 05 | | |
| | | NE | eS | 41 56 | | |
| | Poona | Z | iP | 15 38 48 | | Feeble, rarefaction. |
| | Hyderabad | E | eP | 15 39 32 | 2500 | Slight. |
| | | | iS | 43 35 | | |
| | | | LR | 45 35 | | |
| | | | M | 46 44 | | |
| | | | | | | Period = 15 secs. Gr.dis = 4 u. |
| | Madras | E | eP | 15 39 55 | 2700 | Slight. |
| | | | e | 40 13 | | |
| | | | PPP | 40 44 | | |
| | | | eS | 44 12 | | |
| | Agra | ZNE | iP | 15 40 05 | 2730 | Slight, compression Initial ground motion North and East. |
| | | NE | i | 40 11 | | |
| | | | PPP | 40 54 | | |
| | | | i | 42 39 | | |
| | | ZNE | iS | 44 24 | | |
| | Dehra Dun | NE | eP | 15 40 25 | 2850 | Feeble. |
| | | | eS | 44 51 | | |
| | Chatra | Z | eP | 15 41 11 | | Feeble, distant. |
| | Shillong | Z | iP | 15 41 43 | | Slight, distant, compression. |
| 07 | Chatra | Z | iP | 17 21 59 | | Mild, near rarefaction. |
| | Shillong | Z | i | 17 22 44 | | Slight, distant. |
| | Dehra Dun | NE | e | 17 22 59 | | Tremor. |
| 07 | Chatra | Z | iPg Sg | 19 37 23 37 51 | 70 | Mild. |
| 07 | Chatra | Z | iPg Sg | 19 38 37 39 45 | 70 | Mild. |
| 07 | Chatra | Z | iP | 23 59 19 | | Very feeble, near. |
| 07 | Shillong | Z | e | 23 59 48 | | Slight, distant. |
| 08 | Chatra | Z | eP | 00 32 34 | | Very feeble, near. |
| 08 | Shillong | Z | iP | 05 18 41 | | Slight, distant, compression. |
| 08 | Chatra | Z | iP | 05 19 15 | | Feeble, rarefaction. |
| 08 | Chatra | Z | iP | 08 35 41 | | Feeble. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|--|---------|------------------|--|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 08 | Shillong | Z | eP | 08 36 26 | | Slight, near. |
| 08 | Shillong | Z | ePg eSg | 14 02 55 05 13 | 150 | Slight. |
| 08 | Shillong | Z | • | 20 01 38 | | Very slight, distant. |
| 08 | Port Blair | E | iPg eSg | 21 33 30 33 37 | 60 | Slight. |
| 08 | Shillong | Z | i | 22 21 25 | | |
| 09 | Chatra | Z | iP | 02 51 59 | | Feeble, distant, rarefaction. |
| 09 | Shillong | Z | iP | 05 12 06 | | Slight, distant. |
| 09 | Chatra | Z | iP | 05 12 34 | | Feeble, distant, compression. |
| 09 | Chatra | Z | iP | 05 27 49 | | Mild, near rarefaction. |
| 09 | Epc: 18° S, 169° E, New Hebrides Islands. - H = 11 h. 23 m. 51 s. (USCGS). Mag: 5 $\frac{1}{4}$ -6 (Berk). | | | | | |
| | Tocklai | E | iP | 11 36 36 | | Tremor, distant ground motion East. |
| | Shillong | ZE | iP | 11 36 37 | | Slight, very distant rarefaction. |
| | Calcutta | E | • i | 11 37 02 47 21 | | Slight. |
| | Chatra | E NE | eP eS | 11 37 05 47 30 | 9410 | Slight. |
| | Agra | Z | iP | 11 37 37 | | Slight, distant compression. |
| | Bombay | E | • • • • | 11 40 57 48 23 49 28 12 00 16 | | Slight. |
| | Dehra Dun | NE | • • | 11 42 06 48 18 | | Feeble. |
| | Colombo | E | • • M | 1/2 47 33 16 06 20 06 | | Amp. = 0.6 mm. |
| | Madras | E | • • | 11 47 39 12 48 43 | | Phases could not be identified. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|---|-----------|---|---|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 02 | Agra | E | i | 11 48 12 | | Slight, initial ground motion East. |
| 09 | Shillong | Z | eP | 11 55 16 | | Slight, near. |
| | Tocklai | E | eP | 11 55 21 | | Slight, near. |
| 09 | Chatra | Z | iP S | 16 49 52 49 50 | 150 | Mild. |
| 09 | Shillong | Z | ePg eSg | 19 44 21 44 26 | 130 | Slight. |
| 09 | Shillong | Z | iP | 23 00 07 | | Slight, distant, rarefaction. |
| 09 | Chatra | Z | eP | 23 00 33 | | Feeble, distant. |
| 10 | Shillong | ZNE | eP | 11 54 54 | | Feeble. |
| 10 | Shillong | Z | iP | 12 08 01 | | Slight, distant rarefaction. |
| 10 | Bombay | E | e | 21 42 03 | | Slight. |
| 11 | Chatra | Z E | i i | 00 54 12 01 04 35 | | Slight. |
| | Shillong | Z | i | 00 54 17 | | Slight, distant rarefaction. |
| 11 | Chatra | Z | eP | 05 52 44 | | Feeble, near. |
| 11 | Shillong | Z | eP eSg | 11 04 44 05 11 | 200 | Slight. |
| 11 | Chatra | Z | i i | 11 05 40 06 51 | | Mild. |
| 11 | Epc: 9° S, 152½° E, D'Entrecasteaux Islands. -H = 15 h. 14 m. 07 s. (USCGS). Mag : 6 (Berk). | | | | | |
| | Port Blair | E | i | 15 23 45 | | |
| | Tocklai | E | eP | 15 25 04 | | Distant. |
| | Shillong | ZNE NE | iP PcP PP PPP iS PS ScS/SKS SS SSS LQ LR M | 15 25 11 25 31 27 47 29 27 34 17 34 45 35 05 38 27 41 35 43 05 46 27 52 25 | 8000 | Initial ground motion South and East. Rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|--|---|---|---|-----------------|-----------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 11 | Calcutta | E | - i i i i | - 15 25 31 30 01 33 41 37 01 | | Beginning lost in microseisms. |
| | Chatra | Z E | eP iS | 15 25 39 35 09 | 8180 | Rarefaction. |
| | Colombo | E | eP e e e | 15 26 50 29 50 35 05 36 10 | 8300 | |
| | Madras | E | iP pP sP PP eS SKS ss i i SS i SSS LR LR | 15 25 54 26 21 26 30 28 56 35 39 35 44 36 18 36 37 40 24 40 46 43 20 43 42 46 30 50 03 | 8750 | Initial ground motion East. |
| | Agra | E NE E NE E NE E NE E NE NE | iP PCP pP i PP i iS ScS PS PPS SS SSS LQ | 15 26 22 26 26 26 54 27 54 29 31 30 45 36 30 36 45 37 10 37 40 41 51 44 16 47 17 | 8980 | Moderate. |
| | Poona | Z N | iP iS | 15 26 34 36 55 | 9260 | Compression. |
| | Bombay | NE E E NE E | eP e e eS i PPS | 15 26 40 26 59 27 28 37 10 37 26 38 30 | 9470 | |
| 11 | Shillong | Z | iP | 15 53 33 | | Slight, distant compression. |
| 11 | Epc: 9° S, 156° E, Solomon Islands Region. - h = 100 km es. - H = 16 h. 37 m. 38 s. (Shillong) 9½° S, 152½° E, -H = 16 h. 37 m. 40 s. (USCGS). | | | | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. | |
|--------------------|----------|--------------------------------------|---------|----------------------|----------|--|--|
| <u>June, 1960.</u> | | | | | | | |
| 11 | Calcutta | E | - | - | | Moderate, beginning lost in end portion of the previous shock. | |
| | | | e | 16 47 49 | | | |
| | | | e | 48 31 | | | |
| | | | | i | 58 16 | | |
| | | Tocklai | E | eP | 16 48 39 | | Slight, distant. |
| | | Shillong | ZNE | iP | 16 48 43 | 7900 | Initial ground motion South rarefaction. |
| | PcP | | | 49 03 | | | |
| | PP | | | 51 20 | | | |
| | PPP | | | 53 01 | | | |
| | iS | | | 57 05 | | | |
| | PS | | | 57 30 | | | |
| | ScS/SKS | | | 57 53 | | | |
| | SS | | | 17 01 38 | | | |
| | SSS | | | 04 45 | | | |
| | LQ | | | 06 15 | | | |
| | | | LR | 09 38 | | | |
| | | | M | 15 32 | | | |
| | Chatra | Z N | iP | 16 49 13 | 8080 | Moderate, compression. | |
| | | | S | 58 38 | | | |
| | Madras | E | iP | 16 49 32 | 8670 | Moderate, Initial ground motion | |
| | | | i | 50 04 | | | |
| | | | | iS | | | 59 13 |
| | | | | ss | | | 59 52 |
| | | | | i | | | 17 00 10 |
| | | | | SS | | | 04 10 |
| | | | | LQ | | | 09 54 |
| | | | | LR | | | 14 31 |
| | Agra | NE N E NE E N | iP | 16 49 55 | 8870 | Moderate, initial ground motion North and West. | |
| | | | PcP | 49 59 | | | |
| | | | i | 51 23 | | | |
| | | | SKS, iS | 59 58 | | | |
| | | | ScS | 17 00 06 | | | |
| | | | i | 00 20 | | | |
| | | | PS | 00 38 | | | |
| | | | PPS | 01 08 | | | |
| | | | SS | 05 17 | | | |
| | | | SSS | 08 43 | | | |
| | | | LQ | 11 44 | | | |
| | Poona | Z N | iP | 16 50 09 | 9490 | Moderate, rarefaction. | |
| | | | iS | 17 00 28 | | | |
| | Bombay | NE | eP | 16 50 13 | 9290 | Moderate. | |
| | | | eS | 17 00 35 | | | |
| | | E | i | 03 00 | | | |
| 11 | Shillong | Z | iP | 17 17 04 | | Slight, distant, rarefaction. | |
| 11 | Chatra | Z | iP | 17 19 24 | | Feeble, distant, rarefaction. | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|----------|-------|-----------|----------------------|-----------------|-------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 11 | Shillong | Z | eP eSg | 21 58 48 59 08 | 150 | |
| 12 | Chatra | Z | iP | 05 06 01 | | Feeble. |
| 12 | Chatra | Z | Pg Sg | 08 07 09 07 25 | 130 | Mild, near. |
| 12 | Colombo | E | e e | 08 34 30 37 56 | | |
| 12 | Chatra | Z | Pg | 19 04 03 | | Mild, compression. |
| 12 | Shillong | Z | i | 21 24 56 | | Tremor. |
| 12 | Chatra | Z | Pg Sg | 22 10 30 10 34 | 30 | Mild. |
| 12 | Shillong | Z | eP | 22 32 32 | | Slight, near. |
| 12 | Chatra | Z | Pg | 22 32 57 | | Mild, near rarefaction. |
| 13 | Shillong | Z | iP | 06 09 15 | | Slight, distant, compression. |
| 13 | Chatra | Z | e | 06 23 36 | | Feeble, near. |
| 13 | Chatra | Z | i | 08 12 23 | | Mild, near. |
| 13 | Shillong | Z | eP | 10 28 18 | | Slight, near. |
| 13 | Shillong | Z | e | 10 49 07 | | Slight, distant. |
| 13 | Tocklai | E | eP | 19 28 53 | | Slight, near. |
| 13 | Shillong | Z | eP | 19 30 19 | | Slight, near. |
| 14 | Chatra | Z | eP | 03 14 15 | | Very feeble. |
| 14 | Shillong | Z | iP | 03 52 26 | | Slight, local compression. |
| 14 | Chatra | Z | eP | 03 53 51 | | Mild, near. |
| 14 | Shillong | Z | eP | 04 33 50 | | Slight, distant. |
| 14 | Shillong | Z | e | 11 15 45 | | Slight, distant. |
| 14 | Chatra | Z | iP | 19 01 04 | | Feeble, distant. |
| 14 | Chatra | Z | iP | 19 37 42 | | Very feeble, distant. |
| 14 | Chatra | Z | eP | 22 43 53 | | Very mild, near. |
| 14 | Shillong | Z | eP | 23 49 19 | | Slight, distant. |

| DATE | STATION | COMPT | PHASE | G.M. T. h. m.s. | Δ km. | REMARKS. |
|--------------------|--|---------------------------------------|-------------------------------------|---|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 14 | Chatra | Z | iP | 23 49 55 | | Feeble, distant rarefaction. |
| 15 | Shillong | Z | eP | 00 32 50 | | Felt locally. |
| 15 | Chatra | Z | iP | 00 36 43 | | Very feeble, distant compression. |
| 15 | Chatra | Z | P | 06 50 34 | | Mild, near. |
| 15 | Chatra | Z | iP | 08 30 55 | 180 | Mild, rarefaction. |
| | | | Pg | 30 37 | | |
| | | | PPP | 30 50 | | |
| | | | S | 30 57 | | |
| 15 | Shillong | Z | eP | 08 56 24 | | Slight, local. |
| 15 | Vizianagram | N | i | 11 08 52 | | |
| | | | i | 09 34 | | |
| | | | i | 10 35 | | |
| 15 | Epc: 41° N, $142\frac{1}{2}^{\circ}$ E, Near North Coast of Honshu, Japan. -H = 15 h. 36 m. 51 s. (USCGS). | | | | | |
| | Tocklai | E | iP | 15 44 45 | | Slight, distant. Initial ground motion East. |
| | Shillong | ZNE NE | iP iS | 15 45 03 51 31 | 4810 | Slight, distant compression. Initial ground motion West. |
| | Chatra | Z ZNE NE | iP iP S | 15 45 26 45 27 52 15 | 5160 | |
| | Port Blair | N | i | 15 46 02 | | Slight |
| | Agra | ZNE Z ZE ZNE E ZE Z | iP i PP S PPS i M | 15 46 15 46 44 48 18 53 47 54 07 58 16 -- | 5950 | Slight, compression. Initial ground motion South and West. Period = 26 secs. Amp: = 7.5 mm. |
| | Poona | Z N | iP iS | 15 47 10 55 44 | 7070 | Slight, compression. Initial ground motion West. |
| | Bombay | E NE | e e | 15 55 57 16 15 46 | | |
| 15 | Shillong | Z | e | 23 03 00 | | Slight, distant. |
| 15 | Epc: $\frac{1}{2}^{\circ}$ S, 133° E, Western New Guinea. -H = 23 h. 27 m. 40 s. (USCGS). | | | | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|--|-----------|--|---|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 15 | Shillong | ZNE NE | iP iS | 23 36 24 43 13 | 5180 | Feeble, distant, compression. Initial ground motion West. |
| | Chatra | Z | iP | 23 36 53 | | Slight, distant, rarefaction. |
| | Port Blair | E | e | 23 37 25 | | Slight. |
| 16 | Chatra | Z | iPg P Sg | 00 53 45 53 46 53 57 | 100 | Mild, near. |
| 16 | Chatra | Z | eP | 03 15 11 | | Very feeble. |
| 16 | Shillong | Z | e | 03 33 34 | | Slight. |
| 16 | Chatra | Z | i | 03 34 05 | | Very feeble. |
| 16 | Shillong | Z | eP eSg | 06 34 26 34 41 | 130 | Slight. |
| 16 | Shillong | Z | i | 06 44 37 | | Slight, distant. |
| 16 | Chatra | Z | eP | 06 45 11 | | Feeble, distant. |
| 16 | Shillong | Z | e | 09 07 26 | | Slight, very near. |
| 16 | Epc: 2.5° S, 68.5° E, Indian Ocean. -H = 10 h 20 m 00 s (Shillong) 2° S, 69° E, -H = 10 h 20 m 04 s (USCGS). | | | | | |
| | Kodaikanal | Z | iS LR M | 10 23 02 26 14 27 08 28 38 | 1920 | Moderate. Initial ground motion East. Period = 12 secs. Gr. dis. = 16.5 μ . |
| | Colombo | E | P e e | 10 23 21 26 16 28 21 | | |
| | Madras | E | eP PP PPP iS LQ LR M | 10 24 28 24 47 24 57 28 00 29 01 30 41 | 2140 | Slight. |
| | Poona | Z N | iP iS | 10 24 53 28 49 | 2400 | Slight. |
| | Bombay | NE | eP iS | 10 24 56 28 56 | 2450 | Slight. |
| | Chatra | Z NE | eP i S | 10 26 49 26 51 32 11 | 3700 | Moderate. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|------------|-----------|-----------------------|---|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 16 | Shillong | ZNE NE | eP iS | 10 27 08 32 48 | 4010 | Slight. |
| | Dehra Dun | NE N | i e e e M | 10 32 12 32 16 33 45 34 19 34 59 37 31 | | Slight. |
| | Port Blair | E | e | 10 32 14 | | Slight. |
| 16 | Chatra | Z | e | 11 41 20 | | Feeble, near. |
| 16 | Colombo | E | e e | 11 41 41 42 46 | | |
| 16 | Kodaikanal | E | e | 11 41 43 | | Tremor. |
| 16 | Madras | E | e e | 11 42 34 44 57 | | |
| 16 | Bombay | E | e | 11 43 26 | | Very slight. |
| 16 | Shillong | Z | eP | 11 46 34 | | Slight, distant. |
| 16 | Shillong | ZNE NE | ePg Sg | 12 06 14 06 19 | 40 | Feeble, local. |
| 16 | Chatra | Z | eP | 12 07 17 | | Mild, near. |
| | Dehra Dun | NE | e i | 16 11 19 12 50 | | Feeble. |
| | Chatra | Z | eP | 16 12 53 | | Feeble. |
| | Shillong | Z | e | 16 13 42 | | Slight. |
| 16 | Shillong | Z | e | 17 27 28 | | Tremor. |
| 16 | Shillong | Z | eP | 18 31 36 | | Slight, near. |
| 16 | Chatra | Z | iP e | 19 02 45 05 45 | | Very feeble, distant compression. |
| 16 | Chatra | Z | iP | 21 11 07 13 59 | | Very feeble, distant rarefaction. |
| 16 | Shillong | Z | e | 21 31 12 | | Slight, near. |
| 16 | Agra | ZE NE | iP iS | 23 37 46 45 54 | 6590 | Slight, compression. Initial ground motion West. |
| 17 | Shillong | Z | e | 01 05 11 | | Slight. |
| 17 | Chatra | Z | iP | 01 05 39 | | Mild, near, rarefaction. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|---|----------|--------------|----------------------------|-----------------|--|
| <u>June, 1960.</u> | | | | | | |
| 17 | Calcutta | E | - e e | - 10 24 13 29 38 | | Slight, beginning lost in microseism. |
| 17 | Shillong | Z | e | 10 42 29 | | Slight, distant. |
| 17 | Dehra Dun | NE | e i i | 10 53 22 54 52 56 13 | | Feeble. |
| | Agra | ZNE | i | 10 55 04 | | Slight. |
| | Chatra | Z ZNE | iP S | 10 55 12 11 00 59 | 4130 | Slight, distant, compression. |
| 17 | Shillong | Z | e | 14 01 02 | | Slight, distant. |
| 17 | Chatra | Z | eP | 12 01 39 | | Feeble, distant compression. |
| 17 | Dehra Dun | NE | e e | 12 35 54 36 56 | | Feeble. |
| 17 | Epc: $52\frac{1}{2}^{\circ}$ N, $173\frac{1}{2}^{\circ}$ W, Andreanof Islands in the Aleutians. - H = 16 h 35 m 32 s (USCGS). Mag : $6-6\frac{1}{4}$ (Pas). | | | | | |
| | Shillong | Z | e eP | 16 46 45 46 55 | | Slight, distant. |
| | Chatra | Z NE | iP e i | 16 47 10 47 19 56 54 | | Slight. |
| | Dehra Dun | NE | eP eS | 16 47 32 57 16 | 8470 | Feeble. |
| | Agra | ZNE | iP | 16 47 45 | | Slight, distant, compression. Initial ground motion South and West. |
| | Poona | Z | iP | 16 48 31 | | Tremor, compression. |
| 17 | Chatra | Z | P | 17 03 31 | | Very feeble, distant. |
| 17 | Shillong | Z | eP | 17 27 43 | | Slight, distant. |
| 17 | Chatra | Z | iP | 17 28 07 | | Feeble, distant. |
| 17 | Chatra | Z | eP | 18 04 41 | | Mild. |
| 17 | Chatra | Z | eP | 18 08 53 | | Feeble, distant. |
| 17 | Shillong | Z | i | 18 13 14 | | Slight, distant, compression. |
| 17 | Shillong | Z | eP eSg | 20 34 16 34 55 | 230 | Slight. |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|--------------------|--|-------|-------------|----------------------------|----------|--|
| <u>June, 1960.</u> | | | | | | |
| 17 | Chatra | Z | eP S | 20 34 37 35 09 | 280 | Mild. |
| 17 | Shillong | Z | eP | 20 47 29 | | Slight, distant. |
| 17 | Chatra | Z | eP | 20 47 51 | | Feeble, distant. |
| 17 | Shillong | Z | ePg eSg | 21 26 37 26 47 | 90 | Slight. |
| 17 | Shillong | Z | eP eSg | 23 09 39 09 50 | 110 | Slight. |
| 17 | Chatra | Z | iP | 23 11 10 | | Feeble, distant, compression. |
| 18 | Chatra | Z | eP | 02 13 23 | | Very feeble, distant. |
| 18 | Shillong | Z | e | 03 30 17 | | Slight, distant. |
| 18 | Chatra | Z | iP | 05 23 49 | | Slight, compression. |
| 18 | Dehra Dun | NE | e | 05 27 55 | | Tremor. |
| 18 | Dehra Dun | NE | e i i | 08 26 34 27 56 29 28 | | Feeble. |
| 18 | Chatra | Z | eP | 08 28 10 | | Feeble, distant. |
| 18 | Shillong | Z | e | 19 16 03 | | Tremor. |
| 18 | Shillong | Z | ePg eSg | 20 17 41 17 45 | 30 | Slight, local. |
| 18 | Shillong | Z | e | 20 25 59 | | Slight, distant. |
| 18 | Shillong | Z | iP | 23 39 03 | | Slight, distant compress |
| 18 | Chatra | Z | iP i | 23 39 28 41 59 | | Feeble, distant. |
| 19 | Epc: Aniaman Islands. - H = 02 h 21 m 18 s (USCGS). | | | | | |
| | Shillong | Z | eP | 02 24 43 | | Slight, distant. |
| | Tocklai | E | eP | 02 25 03 | | Slight, distant. |
| | Chatra | Z | iP i | 02 25 16 25 19 | | Feeble, near rarefaction. |
| | Poona | Z | iS SS | 02 30 34 30 46 | | |
| 19 | Tocklai | E | iP | 02 27 36 | | Slight, distant. Initial ground motion West. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|---|--------|---|---|-----------------|---|
| <u>June, 1960.</u> | | | | | | |
| 19 | Poona | Z | eP | 02 29 42 | | Tremor. |
| 19 | Dehra Dun | NE | e i | 09 26 29 26 54 | | Feeble. |
| 19 | Epc: 38° N, $142\frac{1}{2}^{\circ}$ E, Bonin Islands. -H = 17 h 17 m 25 s (USCGS). | | | | | |
| | Shillong | Z | iP | 17 25 44 | | Slight,distant, compression. |
| | Chatra | E | iP | 17 26 15 | | Feeble,distant. |
| | Dehra Dun | NE | e i | 17 27 33 36 52 | | Feeble. |
| 19 | Dehra Dun | NE | e i | 20 07 19 07 52 | | Feeble. |
| 19 | Shillong | Z | eP | 22 09 27 | | Slight,near. |
| 19 | Chatra | Z | e | 22 09 55 | | Mild,near. |
| 20 | Epc: 38° S, $73\frac{1}{2}^{\circ}$ W, Near Coast of Chile. - H = 02 h 01 m 08 s (USCGS). Mag: 7 (Fas), $7\frac{1}{2}$ (Berk). | | | | | |
| | Bombay | NE | ePKP ₁ PP PPP(2) eSS | 02 20 46 24 12 34 20 43 06 | | Period = 19 secs. Gr.dis := 31 μ . |
| | | E | M | 03 24 10 | | |
| | | N | M | 29 38 | | |
| | Kodaikanal | E | PKP ₁ PP PPP SKS ₂ SKKKS PKKS ₁ PPS SS SSP SSS LQ LR M | 02 20 49 23 37 26 43 27 58 30 55 34 13 36 07 41 55 42 25 46 55 59 19 03 05 46 17 10 | 15330 | |
| | Poona | Z N | iPKP ₁ iPP PPP FPS SSP | 02 20 49 24 14 27 37 36 48 43 13 | 16310 | Compression.Initial ground motion North and East. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|--|--------------|--|--|-----------------|---|
| <u>June, 1960.</u> | | | | | | |
| 20 | Madras | E | iPKP i | 02 20 52 34 23 | | Initial ground movement East. |
| | Port Blair | E | ePKP | 02 21 01 | | |
| | Agra | NE | PKP i PPP i | 02 21 03 21 33 25 07 35 10 | | |
| | Dehra Dun | NE N | ePKP e e i i i e e M | 02 21 10 24 33 26 29 32 00 37 40 40 57 45 07 49 31 55 27 | | |
| | Chatra | Z NE N | ePKP ₁ ePP ₁ SS M | 02 21 10 25 33 45 47 03 46 - | | Period = 17.5 secs. Gr.dis. = 35 μ . |
| | Shillong | ZN | PKP | 02 21 14 | | Slight, very distant. |
| | Calcutta | E | e e e e e | 02 21 22 22 00 25 36 29 12 38 44 45 07 | | Moderate. |
| 20 | Chatra | Z | iP | 03 30 33 | | Feeble, distant. |
| 20 | Tocklai | E | iP | 07 27 11 | | Slight, distant. Initial ground motion West. |
| 20 | Shillong | Z | e eP | 08 26 49 27 04 | | Slight, distant. |
| 20 | Shillong | Z | iP | 11 56 08 | | Slight, distant, rarefaction. |
| 20 | Chatra | Z | iP | 11 56 35 | | Very feeble, distant rarefaction. |
| 20 | Shillong | Z | iP | 12 13 36 | | Slight, distant, rarefaction. |
| 20 | Epc : $39\frac{1}{2}^{\circ}$ S, 73° W, Chile. -H= 12 h 59 m 40 s (USCGS). Mag : $6\frac{3}{4}$ (Fas), 7 (Berk). | | | | | |
| | Kodaikanal | E | ePKP FP SKKS PKKS ₁ | 13 19 15 22 18 29 21 32 39 | | |

- 22 -

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|--------------------|------------|----------|---|----------------------|----------|--|
| <u>June, 1960.</u> | | | | | | |
| 20 | Poona | Z | iPKP ₁ | 13 19 17 | 17670 | |
| | | N | iPP ₁ | 22 59 | | |
| | Bombay | NE | ePKP ₁ | 13 19 18 | | |
| | | | e | 20 20 | | |
| | | | e | 22 37 | | |
| | | PPP(2) | 32 46 | | | |
| | | eSS | 41 39 | | | |
| E | M | 14 22 15 | Period = 19 secs. Gr. dis: = 11 μ. | | | |
| | Madras | E | iPKP | 13 19 20 | | Distant, ground movement East. |
| | | | i | 22 58 | | |
| | | | i | 32 47 | | |
| | Agra | ZNE | iPKP | 13 19 33 | | Compression. Initial ground motion East and North. |
| | | | i | 19 50 | | |
| | | ZE | i | 20 12 | | |
| | | NE | i | 21 36 | | |
| | | ZNE | PPP | 23 28 | | |
| | | NE | PS | 30 32 | | |
| | | ZNE | i | 33 53 | | |
| | | E | SS | 36 45 | | |
| | | NE | i | 43 33 | | |
| ZNE | M | - | Period = 21 secs. Gr. dis: = 42.5 μ. | | | |
| | Port Blair | E | iPKP | 13 19 35 | | |
| | | | e | 21 03 | | |
| | | | e | 22 38 | | |
| | | | e | 23 56 | | |
| | | | i | 42 33 | | |
| | | | M | 14 11 26 | | |
| | Chatra | Z | ePKP ₁ | 13 19 43 | | |
| | | N | PP | 24 06 | | |
| | | | M | 14 48/49 | | |
| | Shillong | ZN | e | 13 19 44 | | Very distant. |
| | Calcutta | E | iPKP ₁ | 13 19 45 | 17610 | Initial ground motion West. |
| | | | PKP ₂ | 20 35 | | |
| | | | PP | 23 55 | | |
| | | | SKKS ₁ | 30 55 | | |
| | | | PPS | 37 05 | | |
| | | | SS | 43 55 | | |
| | Dehra Dun | NE N | e | 13 20 05 | | |
| | | | e | 23 40 | | |
| | | | e | 25 07 | | |
| | | | i | 30 39 | | |
| | | | e | 35 58 | | |
| | | | e | 39 43 | | |
| | | | e | 43 25 | | |
| | | | M | 54 34 | | |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|------------|-------|---------------|----------------------------|-----------------|--------------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 20 | Chatra | Z | Pg i Sg | 15 37 10 37 13 37 25 | 120 | Mild, near. |
| 20 | Shillong | Z | i | 15 40 03 | | Slight, distant. |
| 20 | Chatra | Z | eP | 15 40 37 | | Feeble. |
| 20 | Shillong | Z | eP Sg | 15 48 18 48 33 | 130 | Slight. |
| 20 | Shillong | Z | eP Sg | 16 25 00 25 39 | 270 | Slight. |
| 20 | Shillong | Z | iP | 17 20 23 | | Slight, distant rarefaction. |
| 20 | Port Blair | E | iPg iSg | 18 50 00 50 13 | 110 | |
| 20 | Chatra | Z | eP | 18 56 27 | | Feeble, near. |
| 20 | Shillong | Z | eP | 22 22 39 | | Slight. |
| 20 | Shillong | Z | iP | 23 04 44 | | Slight, distant compression. |
| 20 | Shillong | Z | e eP | 23 09 16 09 44 | | Slight. |
| 21 | Chatra | Z | e | 12 51 07 | | Very feeble. |
| 21 | Shillong | Z | iP | 12 51 12 | | Slight, distant compression. |
| 21 | Chatra | Z | iPg Sg | 16 27 31 27 42 | 100 | Very mild. |
| 21 | Chatra | Z | iPg Sg | 17 07 37 07 49 | 100 | Very mild, rarefaction. |
| 21 | Chatra | Z | iP | 19 25 06 | | Very feeble, distant compression. |
| 21 | Shillong | Z | e eP | 21 13 09 13 59 | | Slight, distant. |
| 21 | Chatra | Z | iP | 21 52 43 | | Feeble, distant rarefaction. |
| 21 | Shillong | Z | eP | 21 52 51 | | Slight, distant. |
| 22 | Shillong | Z | i | 02 03 23 | | |
| 22 | Shillong | Z | i | 02 33 23 | | |
| 22 | Shillong | Z | iP | 04 30 40 | | Slight, distant, rarefaction. |
| 22 | Chatra | Z | iPg Sg | 05 14 15 14 25 | 90 | Very mild. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|-------------|---|--------------|--------------------------|--|-----------------|--|
| June, 1960. | | | | | | |
| 22 | Shillong | Z | e | 08 32 24 | | Slight, distant. |
| 22 | Epc: 12° N, $57\frac{1}{2}^{\circ}$ E, Arabian Sea. - H = 16 h 12 m 00 s (USCGS). | | | | | |
| | Bombay | E E NE | eP e eS | 16 15 52 18 36 19 03 | 1910 | Slight. |
| | Poona | Z | iP | 16 16 01 | | Feeble, compression. |
| | Madras | E | eP e eS LR M | 16 16 58 17 09 21 11 23 01 24 56 | 2630 | Slight. |
| | Agra | ZNE | iP | 16 17 22 | | Slight, compression, near, Initial ground motion North and East. |
| | Dehra Dun | NE | eP eS | 16 17 42 22 34 | 3240 | Feeble. |
| | Chatra | Z NE | iP ePcP S | 16 18 26 21 17 23 35 | 3510 | Slight. |
| | Shillong | Z | iP | 16 18 57 | | Slight, distant compression. |
| | Kodaikanal | E | e | 16 20 10 | | Tremor. |
| 22 | Dehra Dun | NE | eP iS | 19 46 38 48 04 | 830 | Feeble. |
| 22 | Chatra | Z | eP ePcP | 19 48 10 50 58 | | Feeble. |
| 22 | Shillong | Z | iP | 19 48 54 | | Slight, distant compression. |
| 22 | Dehra Dun | NE | e | 22 05 31 | | Tremor. |
| 22 | Shillong | Z | iP | 23 40 22 | | Slight, distant compression. |
| | Chatra | Z | iP | 23 40 32 | | Slight, distant. |
| | Dehra Dun | NE | e | 23 40 46 | | Tremor. |
| 23 | Shillong | ZNE | eP Sg | 02 28 02 29 00 | 550 | Slight. |
| | Tocklai | E | eP i | 02 28 43 29 24 | | Slight, local. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|--------------------|------------|----------|------------------|-------------------------------------|----------|--|
| <u>June, 1960.</u> | | | | | | |
| 23 | Chatra | Z ZNE | iP S | 02 29 38 30 42 | 610 | Feeble, near. |
| 23 | Dehra Dun | NE | e | 04 28 16 | | Tremor. |
| 23 | Shillong | Z | i | 19 32 27 | | Slight, distant. |
| 23 | Shillong | Z | e eP | 20 19 15 19 53 | | |
| 24 | Shillong | Z | eP Sg | 07 29 18 29 53 | 230 | |
| 24 | Tocklai | E | eP iS | 13 44 51 45 56 | 610 | Slight. |
| | Shillong | Z | e eP | 13 45 16 45 25 | | |
| | Chatra | Z | i | 13 45 29 | | Feeble, near. |
| 24 | Shillong | Z | e eP | 14 06 20 06 37 | | |
| 25 | Chatra | Z | iP | 00 11 53 | | Mild, near. |
| 25 | Dehra Dun | NE | e | 10 42 33 | | Tremor. |
| 25 | Tocklai | E | iP | 14 13 16 | | Slight, distant. Initial ground motion East. |
| 25 | Shillong | Z | iP | 14 14 17 | | Slight, distant, compression. |
| 25 | Shillong | Z | e | 14 56 54 | | Slight, distant. |
| | Chatra | Z NE | eP i | 15 00 25 10 00 | | Slight. |
| | Dehra Dun | NE | eP eS | 15 01 56 11 23 | 8110 | Feeble, |
| | Colombo | E | e e e e | 15 09 49 15 49 35 54 40 04 | | |
| | Kodaikanal | E | e | 15 10 06 | | Tremor. |
| | Port Blair | E | M | 15 31 55 | | Slight. |
| | Madras | E | M | 15 41 24 | | Distant. |
| 25 | Shillong | Z | e | 17 29 28 | | Slight, distant. |
| 25 | Shillong | Z | iP | 18 01 12 | | Slight, distant, compression. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS . |
|--------------------|-----------|-------|----------|----------------------|-----------------|------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 25 | Shillong | Z | i | 19 56 28 | | |
| 25 | Chatra | Z | iP | 20 00 27 | | Feeble, distant rarefaction. |
| 25 | Shillong | Z | iP | 20 01 38 | | Slight, distant compression. |
| 25 | Shillong | Z | e | 22 59 20 | | |
| 25 | Shillong | Z | e | 23 44 07 | | |
| 26 | Chatra | Z | iP | 08 17 18 | | Feeble, rarefaction. |
| 26 | Shillong | Z | e eP | 15 42 53 43 27 | | Slight, distant. |
| 26 | Shillong | ZNE | iP | 16 31 32 | | Slight, local. |
| 26 | Shillong | Z | eP Sg | 16 35 27 35 41 | 120 | Slight. |
| 26 | Shillong | Z | eP | 16 58 19 | | Slight, distant. |
| 26 | Chatra | Z | eP i | 17 18 40 21 10 | | Feeble. |
| 26 | Shillong | Z | eP | 18 39 49 | | Slight. |
| 26 | Shillong | Z | eP Sg | 22 11 59 12 12 | 120 | |
| 27 | Chatra | Z | eP | 07 40 44 | | Very feeble. |
| 27 | Shillong | Z | iP Sg | 07 40 57 41 13 | 130 | |
| 27 | Dehra Dun | NE | e | 15 44 26 | | Tremor. |
| 27 | Shillong | Z | e | 15 46 22 | | Slight, distant. |
| 27 | Dehra Dun | NE | e | 18 34 17 | | Tremor. |
| 27 | Shillong | Z | eP | 21 15 47 | | Slight, near. |
| 27 | Shillong | Z | eP | 21 58 51 | | Slight. |
| 27 | Shillong | Z | e | 22 34 17 | | |
| 27 | Shillong | Z | e | 23 43 33 | | |
| 28 | Dehra Dun | NE | e | 06 56 11 | | Tremor. |
| 28 | Chatra | Z | eP | 06 57 55 | | Very feeble. |
| 28 | Chatra | Z | iP | 08 29 44 | | Feeble, distant rarefaction. |

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| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | △ km. | REMARKS. |
|--------------------|------------|--------|--------------|----------------------------|----------|---------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 28 | Shillong | Z | e eP | 18 21 08 21 13 | | |
| 28 | Shillong | Z | e eP | 19 17 55 18 02 | | |
| 28 | Chatra | Z E | iP S | 21 07 45 14 32 | 5140 | Feeble. |
| 28 | Shillong | Z | iP | 21 07 51 | | Slight, distant compression. |
| 28 | Shillong | Z | i | 21 17 23 | | Slight, distant. |
| 29 | Shillong | Z | e eP | 02 16 38 17 55 | | Slight, distant. |
| 29 | Chatra | Z | e | 02 17 15 | | Mild, near. |
| 29 | Chatra | Z | iP | 05 22 33 | | Feeble, distant. |
| 29 | Shillong | Z | e | 06 42 35 43 06 | | |
| 29 | Toeklai | E | eP i | 06 47 07 47 27 | | Slight, local. |
| | Shillong | Z | eP eSg | 06 47 28 48 03 | 240 | |
| | Chatra | Z | iP e | 06 48 25 49 46 | | Feeble, near. |
| 29 | Shillong | Z | eP | 10 46 13 | | Slight, near. |
| 29 | Port Blair | E | iP i i | 13 39 39 39 51 40 58 | | Slight. |
| 29 | Shillong | Z | e | 15 13 46 | | |
| 29 | Chatra | Z | iP | 17 18 56 | | Feeble, distant compression. |
| 29 | Shillong | Z | iP | 17 19 45 | | Slight, very distant. |
| 29 | Shillong | Z | eP | 17 46 21 | | |
| 30 | Chatra | Z | eP S | 00 30 08 30 31 | 200 | Very mild. |
| 30 | Dehra Dun | NE | e | 07 08 15 | | Tremor. |
| 30 | Shillong | Z | iP | 11 19 31 | | Slight, distant rarefaction. |
| 30 | Shillong | Z | i | 12 28 51 | | Slight, distant. |
| 30 | Shillong | Z | e | 15 37 20 | | |

| DATE | STATION | COMPT | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS. |
|--------------------|----------|-------|-------|----------------------|-----------------|------------------------------|
| <u>June, 1960.</u> | | | | | | |
| 30 | Shillong | Z | e | 17 16 33 | | |
| 30 | Shillong | Z | iP | 20 10 43 | | Slight, distant. |
| 30 | Chatra | Z | iP | 20 10 51 | | Feeble, distant rarefaction. |
| 30 | Shillong | Z | eP | 20 32 00 | | |

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The following is the list of earthquakes that are reported by the voluntary observers from the different stations during the month of June, 1960.

| Place | Date in G.M.T. | Time in G.M.T. | No. of shock. | Duration of shock. | Intensity in F.R. Scale. | RKS. |
|------------------------|-------------------|-------------------|------------------|-----------------------|-----------------------------|------|
| (Kashmir) Srinagar. | 8.6.60 | 07 23 | One | about 5 secs. | III | |
| Shillong. | 10.6.60 | 11 55 | One | about 5 secs. | III | |
| Shillong . | 15.6.60 | 00 33 | One | 1 sec. | III | |
| Shillong. | 16.6.60 | 12 07 | One | about 5 secs. | III | |
| Shillong. | 26.6.60 | 16 32 | One | about 3 secs. | III | |
| Shillong. | 27.6.60 | 21 14 | One | about 2 secs. | II | |

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MICROBLISMIC

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PARULATION

| Date | Hour G. M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour G. M.T. | K | Mean simple amplitude in m.m. | Mean period in sec. | | | | | |
|--------------------|-----------------|-----|--|---------------------------|-------------|-----------------|-----|--|------------------------------|------------------|--|--|--|--|
| Station: Shillong. | | | | | June, 1960. | | | | | Components: E-W. | | | | |
| 01 | 00 | 1 | 0.4 | 4.6 | 10 | 00 | 1 | 0.3 | 4.4 | | | | | |
| | 06 | 3 | 0.4 | 4.4 | | 06 | 1 | 0.4 | 4.7 | | | | | |
| | 12 | 1 | 0.3 | 4.2 | | 12 | 1 | 0.3 | 4.2 | | | | | |
| | 18 | 1 | 0.3 | 4.3 | | 18 | 1 | 0.4 | 4.5 | | | | | |
| 02 | 00 | 1 | 0.3 | 4.1 | 11 | 00 | 1 | 0.5 | 5.0 | | | | | |
| | 06 | 1 | 0.3 | 4.2 | | 03 | 1 | 0.5 | 5.3 | | | | | |
| | 12 | 1 | 0.2 | 4.0 | | 06 | 1 | 0.4 | 5.0 | | | | | |
| | 18 | 1 | 0.2 | 4.0 | | 09 | 1 | 0.5 | 5.4 | | | | | |
| 03 | 00 | 1 | 0.2 | 3.8 | | 12 | 1 | 0.4 | 5.0 | | | | | |
| | 06 | ... | - | - | | 15 | 1 | 0.4 | 4.8 | | | | | |
| | 12 | 3 | 0.2 | 3.9 | | 18 | ... | - | - | | | | | |
| | 18 | 3 | 0.2 | 4.0 | 12 | 00 | 1 | 0.4 | 4.6 | | | | | |
| 04 | 00 | 3 | 0.2 | 3.9 | | 06 | ... | - | - | | | | | |
| | 06 | 0,0 | - | - | | 12 | ... | - | - | | | | | |
| | 12 | 1 | 0.2 | 3.6 | | 18 | ... | - | - | | | | | |
| | 18 | 1 | 0.3 | 4.1 | 13 | 00 | ... | - | - | | | | | |
| | 21 | 1 | 0.4 | 4.2 | | 03 | ... | - | - | | | | | |
| 05 | 00 | 1 | 0.4 | 4.2 | | 12 | ... | - | - | | | | | |
| | 03 | 1 | 0.5 | 4.7 | | 18 | ... | - | - | | | | | |
| | 06 | 1 | 0.5 | 5.0 | 14 | 00 | ... | - | - | | | | | |
| | 09 | 1 | 0.5 | 4.8 | | 06 | 0,0 | - | - | | | | | |
| | 12 | 1 | 0.5 | 4.9 | | 12 | 0,0 | - | - | | | | | |
| | 15 | 1 | 0.4 | 4.7 | | 18 | 0,0 | - | - | | | | | |
| | 18 | 1 | 0.4 | 4.8 | 15 | 00 | 0,0 | - | - | | | | | |
| | 21 | 1 | 0.5 | 5.0 | | 06 | ... | - | - | | | | | |
| 06 | 00 | 1 | 0.4 | 4.8 | | 12 | ... | - | - | | | | | |
| | 06 | 1 | 0.4 | 4.6 | | 18 | ... | - | - | | | | | |
| | 12 | 1 | 0.4 | 4.4 | 16 | 00 | ... | - | - | | | | | |
| | 18 | 1 | 0.4 | 4.6 | | 06 | 0,0 | - | - | | | | | |
| 07 | 00 | 1 | 0.4 | 4.4 | | 12 | 0,0 | - | - | | | | | |
| | 06 | ... | - | - | | 18 | 0,0 | - | - | | | | | |
| | 12 | ... | - | - | 17 | 00 | 0,0 | - | - | | | | | |
| | 18 | ... | - | - | | 06 | ... | - | - | | | | | |
| 08 | 00 | ... | - | - | | 12 | ... | - | - | | | | | |
| | 03 | 1 | 0.5 | 5.5 | | 18 | ... | - | - | | | | | |
| | 06 | 1 | 0.5 | 5.6 | 18 | 00 | ... | - | - | | | | | |
| | 09 | 1 | 0.6 | 5.5 | | 06 | ... | - | - | | | | | |
| | 12 | 1 | 0.5 | 5.4 | | 12 | 0,0 | - | - | | | | | |
| | 15 | 1 | 0.5 | 5.5 | | 18 | 0,0 | - | - | | | | | |
| | 18 | 1 | 0.4 | 5.0 | 19 | 00 | 0,0 | - | - | | | | | |
| | 21 | 1 | 0.5 | 5.3 | | 06 | ... | - | - | | | | | |
| 09 | 00 | 1 | 0.4 | 5.1 | | 12 | 0,0 | - | - | | | | | |
| | 06 | 1 | 0.4 | 5.0 | | 18 | 0,0 | - | - | | | | | |
| | 12 | ... | - | - | | | | | | | | | | |
| | 18 | 1 | 0.4 | 4.8 | | | | | | | | | | |

| Date | Hour | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean simple amplitude in m.m. | Mean period in sec. |
|-------------------|------|-----|-------------------------------|---------------------|---------------------------|------|-----|-------------------------------|---------------------|
| Station: Shillong | | | | | <u>June, 1960.</u> | | | | |
| | | | | | Component: E-W. | | | | |
| 20 | 00 | ... | - | - | 29 | 00 | 1 | 0.5 | 5.0 |
| | 06 | 0.. | - | - | | 03 | 1 | 0.6 | 5.3 |
| | 12 | ... | - | - | | 06 | 1 | 0.6 | 5.4 |
| | 18 | ... | - | - | | 09 | 1 | 0.6 | 5.5 |
| 21 | 00 | ... | - | - | | 12 | 1 | 0.7 | 5.6 |
| | 06 | ... | - | - | | 15 | 1 | 0.7 | 5.5 |
| | 12 | ... | - | - | | 18 | 1 | 0.6 | 5.1 |
| | 18 | ... | - | - | | 21 | 1 | 0.6 | 5.4 |
| | | | | | 30 | | | | |
| 22 | 00 | ... | - | - | | 00 | 1 | 0.5 | 5.0 |
| | 06 | 1 | 0.3 | 4.1 | | 03 | 1 | 0.5 | 5.0 |
| | 12 | 3 | 0.3 | 4.0 | | 06 | 1 | 0.6 | 5.2 |
| | 18 | 3 | 0.3 | 4.2 | | 09 | 1 | 0.6 | 5.4 |
| 23 | 00 | 3 | 0.3 | 4.0 | | 12 | 1 | 0.6 | 5.3 |
| | 06 | 3 | 0.3 | 4.2 | | 15 | 1 | 0.5 | 5.0 |
| | 12 | 3 | 0.3 | 4.3 | | 18 | 1 | 0.6 | 5.3 |
| | 18 | 3 | 0.3 | 4.1 | | 21 | 1 | 0.6 | 5.5 |
| | | | | | : : : : : : : : | | | | |
| 24 | 00 | 3 | 0.3 | 4.3 | Station: Bombay (Colaba). | | | | |
| | 06 | 1 | 0.4 | 5.0 | 01 | 00 | 1 | 1.6 | 4.6 |
| | 12 | 1 | 0.5 | 5.4 | | 03 | 1 | 1.5 | 4.3 |
| | 18 | ... | - | - | | 06 | ... | - | - |
| 25 | 00 | ... | - | - | | 09 | 1 | 1.4 | 4.6 |
| | 06 | 3 | 0.5 | 5.4 | | 12 | 1 | 1.4 | 4.6 |
| | 12 | 3 | 0.5 | 5.2 | | 15 | 1 | 1.2 | 4.6 |
| | 18 | 1 | 0.4 | 5.0 | | 18 | 1 | 1.1 | 4.6 |
| 26 | 00 | ... | 0.4 | 5.0 | | 21 | 1 | 1.0 | 4.6 |
| | 06 | 3 | 0.5 | 5.1 | 02 | | | | |
| | 12 | 1 | 0.5 | 5.3 | | 00 | 1 | 1.5 | 4.7 |
| | 18 | 1 | 0.6 | 5.6 | | 03 | 1 | 1.4 | 4.6 |
| 27 | 00 | 1 | 0.6 | 5.5 | | 06 | 1 | 1.4 | 4.6 |
| | 03 | 1 | 0.6 | 5.4 | | 09 | ... | - | - |
| | 06 | 1 | 0.7 | 5.6 | | 12 | 1 | 1.1 | 4.4 |
| | 09 | 1 | 0.7 | 5.5 | | 15 | 1 | 1.0 | 4.5 |
| | 12 | 1 | 0.6 | 5.5 | | 18 | 1 | 1.0 | 4.5 |
| | 15 | 1 | 0.6 | 5.3 | | 21 | 1 | 1.0 | 4.4 |
| | 18 | 1 | 0.5 | 5.2 | 03 | | | | |
| | 21 | 1 | 0.5 | 5.0 | | 00 | 3 | 1.2 | 4.4 |
| 28 | 00 | 1 | 0.5 | 5.0 | | | | 0.4 | 2.7 |
| | 03 | 1 | 0.5 | 5.2 | | 06 | 3 | 0.9 | 4.5 |
| | 06 | 1 | 0.6 | 5.5 | | | | 0.5. | 2.7 |
| | 09 | 1 | 0.6 | 5.5 | | 12 | 3 | 1.1 | 4.4 |
| | 12 | 1 | 0.5 | 5.3 | | | | 0.6 | 3.0 |
| | 15 | 1 | 0.6 | 5.2 | | 18 | 3 | 0.7 | 4.3 |
| | 18 | 1 | 0.6 | 5.4 | | | | 0.5 | 2.8 |
| | 21 | 1 | 0.5 | 5.1 | | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | | | | | |
|--------------------------|----------|-----|-------------------------------|---------------------|-------------|----------|-----|-------------------------------|---------------------|-----------------|--|--|--|--|
| Station: Bombay (Colaba) | | | | | June, 1960. | | | | | Component: E-W. | | | | |
| 04 | 00 | 3 | 0.9 | 4.5 | 11 | 00 | 3 | 1.5 | 4.1 | | | | | |
| | | | 0.4 | 2.3 | | | | 0.3 | 2.3 | | | | | |
| | 06 | ... | - | - | | 06 | 3 | 1.5 | 4.4 | | | | | |
| | 12 | ... | - | - | | | | 0.4 | 2.3 | | | | | |
| | 18 | ... | - | - | | 12 | 3 | 1.5 | 4.3 | | | | | |
| | | | | | | | | 0.5 | 2.6 | | | | | |
| 05 | 00 | ... | - | - | | 18 | ... | - | - | | | | | |
| | 06 | 3 | 1.0 | 4.4 | | | | | | | | | | |
| | | | 0.6 | 2.5 | 12 | 00 | 3 | 1.5 | 4.5 | | | | | |
| | 12 | 3 | 0.9 | 4.2 | | | | 0.5 | 2.5 | | | | | |
| | | | 0.5 | 2.2 | | 06 | 3 | 1.5 | 4.3 | | | | | |
| | 18 | 3 | 1.0 | 4.1 | | | | 1.4 | 2.0 | | | | | |
| | | | 0.6 | 2.5 | | 12 | 3 | 2.1 | 4.5 | | | | | |
| | | | | | | | | 0.4 | 2.2 | | | | | |
| 06 | 00 | 3 | 1.0 | 4.5 | | 18 | 3 | 2.1 | 4.1 | | | | | |
| | | | 0.4 | 2.3 | | | | 0.4 | 2.0 | | | | | |
| | 06 | 3 | 0.9 | 3.9 | | | | | | | | | | |
| | | | 0.5 | 2.2 | 13 | 00 | 3 | 2.5 | 4.5 | | | | | |
| | 12 | ... | 1.2 | 4.2 | | | | 0.5 | 2.0 | | | | | |
| | | | 0.5 | 2.5 | | 06 | 3 | 2.1 | 4.0 | | | | | |
| | 18 | 3 | 1.2 | 4.3 | | | | 0.5 | 1.8 | | | | | |
| | | | 0.4 | 2.2 | | 12 | 3 | 3.0 | 4.2 | | | | | |
| | | | | | | | | 0.7 | 2.0 | | | | | |
| 07 | 00 | 3 | 1.1 | 4.1 | | 18 | 3 | 2.3 | 4.0 | | | | | |
| | | | 0.4 | 2.0 | | | | 0.6 | 1.8 | | | | | |
| | 06 | ... | - | - | | | | | | | | | | |
| | 12 | ... | - | - | 14 | 00 | 3 | 3.0 | 4.3 | | | | | |
| | 18 | 3 | 1.5 | 4.1 | | | | 0.6 | 1.8 | | | | | |
| | | | 0.6 | 2.0 | | 06 | 3 | 2.4 | 3.9 | | | | | |
| | | | | | | | | 0.6 | 1.8 | | | | | |
| 08 | 00 | 3 | 1.5 | 3.7 | | 12 | 3 | 2.7 | 4.2 | | | | | |
| | | | 0.7 | 1.9 | | | | 0.6 | 2.3 | | | | | |
| | 06 | 3 | 1.9 | 3.7 | | 18 | 3 | 2.2 | 4.4 | | | | | |
| | | | 0.4 | 1.9 | | | | 0.7 | 2.0 | | | | | |
| | 12 | 3 | 1.5 | 3.8 | | | | | | | | | | |
| | | | 1.7 | 2.0 | 15 | 00 | 3 | 2.5 | 4.4 | | | | | |
| | 18 | 3 | 1.7 | 4.1 | | | | 0.7 | 1.9 | | | | | |
| | | | 0.6 | 1.8 | | 06 | 3 | 2.6 | 4.7 | | | | | |
| | | | | | | | | 0.7 | 1.9 | | | | | |
| 09 | 00 | 3 | 1.5 | 4.0 | | 12 | 3 | 2.5 | 3.9 | | | | | |
| | | | 0.6 | 1.9 | | | | 0.8 | 2.2 | | | | | |
| | 06 | 3 | 1.5 | 3.9 | | 18 | 3 | 2.3 | 4.4 | | | | | |
| | | | 0.4 | 1.6 | | | | 0.8 | 2.1 | | | | | |
| | 12 | ... | - | - | | | | | | | | | | |
| | 18 | 3 | 1.5 | 4.2 | 16 | 00 | 3 | 2.5 | 4.6 | | | | | |
| | | | 0.7 | 2.1 | | | | 0.7 | 2.5 | | | | | |
| | | | | | | 06 | 3 | 1.8 | 4.4 | | | | | |
| 10 | 00 | 3 | 1.5 | 4.1 | | | | 0.7 | 2.3 | | | | | |
| | | | 0.6 | 2.3 | | 12 | 3 | 2.0 | 4.5 | | | | | |
| | 06 | 3 | 1.5 | 4.1 | | | | 0.8 | 2.3 | | | | | |
| | | | 0.7 | 2.3 | | 18 | 3 | 2.0 | 4.5 | | | | | |
| | 12 | 3 | 1.4 | 4.2 | | | | 0.7 | 2.2 | | | | | |
| | | | 0.6 | 2.3 | | | | | | | | | | |
| | 18 | 3 | 1.3 | 4.0 | | | | | | | | | | |
| | | | 0.4 | 1.9 | | | | | | | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | | | | | |
|--------------------------|-------------|---|--|---------------------------|-------------|-------------|---|--|------------------------------|-----------------|--|--|--|--|
| Station: Bombay (Colaba) | | | | | June, 1960. | | | | | Component: E-W. | | | | |
| 17 | 00 | 3 | 1.8 | 4.1 | 23 | 00 | 3 | 1.6 | 3.4 | | | | | |
| | | | 0.6 | 2.2 | | | | 0.9 | 2.3 | | | | | |
| | 06 | 3 | 1.9 | 4.2 | | 06 | 3 | 2.0 | 3.7 | | | | | |
| | | | 0.8 | 2.3 | | | | 0.7 | 2.0 | | | | | |
| | 12 | 3 | 1.6 | 4.2 | | 12 | 3 | 1.9 | 4.0 | | | | | |
| | | | 0.8 | 2.2 | | | | 0.7 | 1.8 | | | | | |
| | 18 | 3 | 1.5 | 4.4 | | 18 | 3 | 2.1 | 3.5 | | | | | |
| | | | 0.8 | 2.3 | | | | 0.8 | 1.8 | | | | | |
| 18 | 00 | 3 | 1.6 | 4.1 | 24 | 00 | 3 | 2.4 | 4.0 | | | | | |
| | | | 0.7 | 2.3 | | | | 0.6 | 1.6 | | | | | |
| | 06 | 3 | 1.5 | 3.9 | | 06 | 3 | 2.9 | 4.1 | | | | | |
| | | | 0.9 | 2.2 | | | | 0.7 | 2.0 | | | | | |
| | 12 | 3 | 1.4 | 3.7 | | 12 | 3 | 2.4 | 4.0 | | | | | |
| | | | 0.8 | 2.2 | | | | 1.2 | 2.4 | | | | | |
| | 18 | 3 | 1.3 | 4.2 | | 18 | 3 | 2.7 | 4.1 | | | | | |
| | | | 0.7 | 2.4 | | | | 1.3 | 2.5 | | | | | |
| 19 | 00 | 3 | 1.2 | 4.4 | 25 | 00 | 3 | 2.4 | 4.1 | | | | | |
| | | | 0.7 | 2.3 | | | | 1.3 | 2.5 | | | | | |
| | 06 | 3 | 1.2 | 3.7 | | 06 | 3 | 2.3 | 4.5 | | | | | |
| | | | 0.8 | 2.5 | | | | 1.3 | 2.4 | | | | | |
| | 12 | 3 | 1.1 | 4.0 | | 12 | 3 | 2.6 | 3.9 | | | | | |
| | | | 0.7 | 2.3 | | | | 1.3 | 2.4 | | | | | |
| | 18 | 3 | 1.2 | 4.1 | | 18 | 3 | 2.5 | 4.1 | | | | | |
| | | | 0.8 | 2.3 | | | | 1.2 | 2.1 | | | | | |
| 20 | 00 | 3 | 1.1 | 4.0 | 26 | 00 | 3 | 2.9 | 4.1 | | | | | |
| | | | 0.6 | 2.1 | | | | 1.2 | 2.3 | | | | | |
| | 06 | 3 | 1.3 | 4.2 | | 06 | 3 | 2.7 | 3.7 | | | | | |
| | | | 0.6 | 2.2 | | | | 0.9 | 1.8 | | | | | |
| | 12 | 3 | 1.0 | 4.5 | | 12 | 3 | 2.9 | 4.1 | | | | | |
| | | | 0.5 | 1.7 | | | | 1.1 | 2.5 | | | | | |
| | 18 | 3 | 1.3 | 4.1 | | 18 | 3 | 2.8 | 4.0 | | | | | |
| | | | 0.6 | 2.0 | | | | 1.0 | 1.8 | | | | | |
| 21 | 00 | 3 | 1.1 | 4.1 | 27 | 00 | 3 | 2.8 | 4.0 | | | | | |
| | | | 0.5 | 1.9 | | | | 1.0 | 2.0 | | | | | |
| | 06 | 3 | 1.5 | 3.8 | | 06 | 3 | 2.9 | 3.6 | | | | | |
| | | | 1.1 | 2.5 | | | | 1.2 | 2.0 | | | | | |
| | 12 | 3 | 1.4 | 4.3 | | 12 | 3 | 3.1 | 3.8 | | | | | |
| | | | 0.9 | 2.3 | | | | 1.2 | 2.5 | | | | | |
| | 18 | 3 | 1.3 | 4.2 | | 18 | 3 | 2.7 | 3.9 | | | | | |
| | | | 0.8 | 2.3 | | | | 1.0 | 2.0 | | | | | |
| 22 | 00 | 3 | 1.3 | 4.3 | 28 | 00 | 3 | 3.5 | 4.0 | | | | | |
| | | | 0.7 | 2.1 | | | | 1.2 | 2.3 | | | | | |
| | 06 | 3 | 1.4 | 4.1 | | 06 | 3 | 3.1 | 4.2 | | | | | |
| | | | 0.7 | 2.2 | | | | 0.9 | 2.3 | | | | | |
| | 12 | 3 | 1.6 | 3.6 | | 12 | 3 | 3.3 | 4.6 | | | | | |
| | | | 0.6 | 2.0 | | | | 1.1 | 2.2 | | | | | |
| | 18 | 3 | 1.7 | 3.6 | | 18 | 3 | 2.9 | 4.0 | | | | | |
| | | | 0.6 | 1.8 | | | | 1.2 | 2.0 | | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | Mean simple amplitude in m.m. | Mean period in sec. |
|---------------------------|----------|---|-------------------------------|---------------------|-----------------|----------|-------------------------------|---------------------|
| Station : Bombay (Colaba) | | | June, 1960. | | Component: E-W. | | | |
| 29 | 00 | 3 | 3.6 | 3.8 | 05 | 00 | 1 0.7 | 2.8 |
| | 06 | 3 | 1.0 3.3 | 2.0 4.0 | | 03 | 3 0.6 | 3.0 |
| | 12 | 3 | 0.7 3.9 | 1.6 4.2 | | 06 | 3 0.5 | 2.6 |
| | 18 | 3 | 1.2 4.3 | 2.2 4.1 | | 12 | 3 0.5 | 2.7 |
| | | | 0.8 | 1.8 | | 18 | 3 0.4 | 2.7 |
| 30 | 00 | 3 | 4.1 | 4.2 | 06 | 00 | 3 0.4 | 2.6 |
| | 06 | 3 | 1.5 4.3 | 2.5 3.9 | | 03 | 3 0.3 | 1.9 |
| | 12 | 3 | 1.6 5.0 | 2.3 4.0 | | 06 | ... - | - |
| | 18 | 3 | 1.4 4.4 | 2.1 3.9 | | 12 | 3 0.3 | 1.8 |
| | | | 1.5 | 2.1 | | 18 | 3 0.7 | 4.1 |
| | | | | | | | 3 0.6 | 2.7 |
| | | | | | | | | |
| Station : Madras. | | | | | 07 | 00 | 3 0.5 | 2.7 |
| | | | | | | 03 | 3 0.5 | 2.6 |
| | | | | | | 06 | 3 0.5 | 2.7 |
| | | | | | | 12 | 3 0.5 | 2.7 |
| | | | | | | 18 | 3 0.6 | 2.7 |
| | | | | | 08 | 00 | 1 0.7 | 2.7 |
| 01 | 00 | 1 | 1.3 | 5.0 | | 03 | 1 0.8 | 2.9 |
| | 03 | 1 | 1.3 | 4.8 | | 06 | 1 0.7 | 2.7 |
| | 06 | 1 | 1.1 | 4.6 | | 12 | 1 0.9 | 3.3 |
| | 12 | 1 | 1.1 | 4.8 | | 18 | 3 0.9 | 3.5 |
| | 18 | 1 | 1.0 | 4.8 | 09 | 00 | 3 0.7 | 3.8 |
| 02 | 00 | 3 | 0.7 | 4.7 | | 03 | 3 0.9 | 3.8 |
| | | 3 | 0.2 | 2.1 | | 06 | 3 0.7 | 3.8 |
| | 03 | 3 | 0.7 | 4.2 | | 12 | 3 0.9 | 3.9 |
| | | 3 | 0.2 | 1.8 | | 18 | 3 0.9 | 4.2 |
| | 06 | 3 | 0.6 | 4.2 | 10 | 00 | 3 0.9 | 4.1 |
| | | 3 | 0.3 | 1.9 | | 03 | 3 0.7 | 3.8 |
| | 12 | 1 | 0.4 | 1.9 | | 06 | 3 0.7 | 3.9 |
| | 18 | 3 | 0.2 | 1.9 | | | 3 0.6 | 2.8 |
| | | 3 | 0.7 | 4.4 | | 12 | 3 0.8 | 4.0 |
| 03 | 00 | 3 | 0.7 | 1.6 | | | 3 0.3 | 1.9 |
| | | 3 | 0.5 | 4.3 | | 18 | 3 0.9 | 4.6 |
| | 03 | 3 | 0.3 | 2.3 | 11 | 00 | 3 0.8 | 4.3 |
| | 06 | 3 | 0.4 | 2.7 | | 03 | ... - | - |
| | 12 | 3 | 0.4 | 2.7 | | 06 | 3 0.9 | 4.7 |
| | | 3 | 0.5 | 3.9 | | 12 | 3 0.3 | 2.3 |
| | 18 | 3 | 0.4 | 2.4 | | 18 | 3 1.1 | 4.7 |
| | | 3 | 0.5 | 4.0 | 12 | 00 | 1 1.2 | 4.9 |
| 04 | 00 | 3 | 0.4 | 2.4 | | 03 | 1 1.2 | 4.7 |
| | | 3 | 0.5 | 3.9 | | 06 | ... - | - |
| | 03 | 3 | 0.5 | 2.7 | | 12 | 1 1.3 | 4.8 |
| | 06 | 3 | 0.5 | 2.5 | | 18 | 1 1.1 | 4.7 |
| | 12 | 1 | 0.7 | 2.7 | | | | |
| | 18 | 1 | 0.8 | 2.8 | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | | | | | |
|------------------|----------|---|-------------------------------|---------------------|-------------|----------|---|-------------------------------|---------------------|------------------|--|--|--|--|
| Station : Madras | | | | | June, 1960. | | | | | Component : E-W. | | | | |
| 13 | 00 | 1 | 0.9 | 4.7 | 21 | 00 | 3 | 0.6 | 2.9 | | | | | |
| | 03 | 1 | 1.1 | 4.7 | | 03 | 3 | 0.6 | 2.7 | | | | | |
| | 06 | 1 | 1.1 | 4.7 | | 06 | 3 | 0.6 | 2.6 | | | | | |
| | 12 | 1 | 1.3 | 4.7 | | 12 | 3 | 0.6 | 2.8 | | | | | |
| | 18 | 1 | 1.1 | 4.9 | | 18 | 3 | 0.7 | 3.0 | | | | | |
| 14 | 00 | 1 | 1.2 | 4.9 | 22 | 00 | 3 | 0.7 | 3.1 | | | | | |
| | 03 | 1 | 1.3 | 4.8 | | 03 | 3 | 0.7 | 3.2 | | | | | |
| | 06 | 1 | 1.3 | 5.3 | | 06 | 3 | 0.7 | 3.3 | | | | | |
| | 12 | 1 | 1.3 | 5.3 | | 12 | 3 | 0.7 | 3.6 | | | | | |
| | 18 | 1 | 1.3 | 5.2 | | 18 | 3 | 0.8 | 3.7 | | | | | |
| 15 | 00 | 1 | 1.2 | 5.1 | 23 | 00 | 3 | 0.9 | 3.7 | | | | | |
| | 03 | 1 | 1.3 | 5.1 | | 03 | 3 | 0.9 | 3.9 | | | | | |
| | 06 | 1 | 1.2 | 5.3 | | 06 | 3 | 0.9 | 3.9 | | | | | |
| | 12 | 1 | 1.3 | 5.2 | | 12 | 1 | 1.0 | 4.2 | | | | | |
| | 18 | 1 | 1.1 | 5.3 | | 18 | 1 | 1.1 | 4.4 | | | | | |
| 16 | 00 | 3 | 1.0 | 5.0 | 24 | 00 | 1 | 1.3 | 4.4 | | | | | |
| | | 3 | 0.2 | 2.0 | | 03 | 3 | 1.0 | 4.1 | | | | | |
| | 03 | 3 | - | - | | 06 | 3 | 1.2 | 4.4 | | | | | |
| | 06 | 3 | 1.0 | 5.1 | | 12 | 3 | 1.2 | 4.5 | | | | | |
| | | 3 | 0.2 | 1.8 | | 18 | 1 | 1.3 | 4.9 | | | | | |
| | 12 | 3 | 1.0 | 5.2 | 25 | 00 | 1 | 1.1 | 4.8 | | | | | |
| | | 1 | 0.6 | 2.6 | | 03 | 3 | 1.2 | 4.6 | | | | | |
| | 18 | 3 | 1.0 | 4.9 | | 06 | 3 | 1.2 | 4.5 | | | | | |
| | | 1 | 0.8 | 2.9 | | 12 | 1 | 1.3 | 4.6 | | | | | |
| 17 | 00 | 3 | 0.9 | 4.7 | | 18 | 1 | 1.6 | 4.5 | | | | | |
| | | 3 | 0.6 | 3.0 | 26 | 00 | 1 | 1.6 | 4.5 | | | | | |
| | 03 | 3 | 1.0 | 4.7 | | 03 | 1 | 1.5 | 4.2 | | | | | |
| | | 3 | 0.6 | 2.6 | | 06 | 1 | 1.9 | 4.4 | | | | | |
| | 06 | 1 | 0.9 | 4.8 | | 12 | 1 | 2.3 | 4.4 | | | | | |
| | | 3 | 0.5 | 2.9 | | 18 | 1 | 2.5 | 4.6 | | | | | |
| | 12 | 1 | 1.0 | 4.9 | 27 | 00 | 1 | 2.2 | 4.7 | | | | | |
| | 18 | 1 | 1.0 | 4.8 | | 03 | 1 | 2.5 | 4.3 | | | | | |
| 18 | 00 | 3 | 0.8 | 4.7 | | 06 | 1 | 2.5 | 4.4 | | | | | |
| | | 3 | 0.3 | 2.5 | | 12 | 1 | 2.2 | 4.6 | | | | | |
| | 03 | 3 | 0.8 | 4.5 | | 18 | 1 | 2.0 | 4.6 | | | | | |
| | 06 | 3 | 0.8 | 4.4 | 28 | 00 | 1 | 1.7 | 4.4 | | | | | |
| | 12 | 3 | 0.9 | 4.7 | | 03 | 1 | 1.7 | 4.4 | | | | | |
| | 18 | 3 | 0.8 | 4.5 | | 06 | 1 | 1.7 | 4.7 | | | | | |
| 19 | 00 | 3 | 0.5 | 4.4 | | 12 | 1 | 1.8 | 4.7 | | | | | |
| | | 3 | 0.4 | 2.9 | | 18 | 1 | 1.5 | 4.9 | | | | | |
| | 03 | 3 | 0.3 | 2.5 | 29 | 00 | 1 | 1.6 | 4.8 | | | | | |
| | 06 | 3 | - | - | | 03 | 1 | 1.6 | 4.7 | | | | | |
| | 12 | 3 | 0.4 | 2.5 | | 06 | 1 | 1.7 | 4.7 | | | | | |
| | 18 | 3 | 0.3 | 2.5 | | 12 | 1 | 1.7 | 4.9 | | | | | |
| | | 3 | 0.1 | 1.1 | | 18 | 1 | 1.6 | 4.9 | | | | | |
| 20 | 00 | 3 | 0.3 | 2.6 | 30 | 00 | 1 | 1.6 | 4.9 | | | | | |
| | | 3 | 0.2 | 2.0 | | 03 | 3 | - | - | | | | | |
| | 03 | 3 | - | - | | 06 | 1 | 1.7 | 5.4 | | | | | |
| | 06 | 3 | 0.5 | 2.5 | | 12 | 1 | 2.1 | 5.5 | | | | | |
| | 12 | 3 | 0.5 | 2.7 | | 18 | 1 | 2.2 | 5.5 | | | | | |
| | 18 | 3 | 0.5 | 2.7 | | | | | | | | | | |

| Date | Hour | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean simple amplitude in m.m. | Mean period in sec. |
|--------------------|------|-----|-------------------------------|---------------------|-------------|------|------------|-------------------------------|---------------------|
| Station : Bokaro . | | | | | | | | | |
| | | | | | June, 1960. | | | | |
| Component : E-W. | | | | | | | | | |
| 01 | 00 | 2 | 0.6 | 5.0 | 12 | 00 | 3 | 0.6 | 5.0 |
| | 06 | 3 | 0.6 | 5.0 | | 06 | 3 | 0.5 | 5.0 |
| | 12 | 3 | 0.5 | 4.8 | | 12 | 2 | 0.8 | 4.6 |
| | 18 | 3 | 0.6 | 5.0 | | 18 | 2 | 0.8 | 5.0 |
| 02 | 00 | 3 | 0.5 | 5.0 | 13 | 00 | 2 | 0.8 | 4.8 |
| | 06 | 3 | 0.5 | 5.2 | | 06 | 3 | 0.7 | 4.5 |
| | 12 | 3 | 0.5 | 5.0 | | 12 | 3 | 0.6 | 4.5 |
| | 18 | 3 | 0.4 | 4.5 | | 18 | 3 | 0.6 | 5.0 |
| 03 | 00 | 3 | 0.4 | 4.8 | 14 | 00 | 3 | 0.7 | 5.0 |
| | 06 | 3 | 0.4 | 5.0 | | 06 | 3 | 0.7 | 5.0 |
| | 12 | 3 | 0.5 | 4.5 | | 12 | 3 | 0.8 | 5.0 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.8 | 5.0 |
| 04 | 00 | 3 | 0.5 | 4.5 | 15 | 00 | 2 | 1.0 | 5.0 |
| | 06 | 3 | 0.4 | 4.5 | | 06 | 2 | 0.8 | 5.5 |
| | 12 | 0,0 | - | - | | 12 | 2 | 0.7 | 5.5 |
| | 18 | 3 | 0.4 | 4.5 | | 18 | 3 | 0.7 | 5.0 |
| 05 | 00 | 3 | 0.5 | 4.5 | 16 | 00 | ... | - | - |
| | 06 | 3 | 0.5 | 4.8 | | 06 | 3 | 0.6 | 5.0 |
| | 12 | 3 | 0.6 | 4.5 | | 12 | ... | - | - |
| | 18 | 3 | 0.5 | 5.0 | | 18 | 3 | 0.7 | 5.0 |
| 06 | 00 | 3 | 0.5 | 4.5 | 17 | 00 | 3 | 0.7 | 5.0 |
| | 06 | 3 | 0.5 | 5.0 | | 06 | 3 | 0.6 | 5.0 |
| | 12 | 3 | 0.6 | 4.8 | | 12 | 3 | 0.7 | 5.0 |
| | 18 | 3 | 0.6 | 4.8 | | 18 | 3 | 0.5 | 5.0 |
| 07 | 00 | 3 | 0.5 | 4.5 | 18 | 00 | 3 | 0.5 | 4.8 |
| | | | | | | 06 | 0,0 | - | - |
| 08 | 06 | 3 | 0.5 | 4.5 | | 12 | Power off. | - | - |
| | 12 | 3 | 0.5 | 4.5 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.5 | 4.2 | | | | | |
| | | | | | 19 | 00 | 0,0 | - | - |
| 09 | 00 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.5 | 4.5 | | 12 | 0,0 | - | - |
| | 12 | ... | - | - | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.5 | 4.5 | | | | | |
| | | | | | 20 | 00 | 0,0 | - | - |
| 10 | 00 | 3 | 0.5 | 4.5 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.6 | 4.5 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.5 | 5.0 | | 18 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 4.8 | | | | | |
| | | | | | 21 | 00 | 0,0 | - | - |
| 11 | 00 | 3 | 0.6 | 5.0 | | 06 | 0,0 | - | - |
| | 06 | 3 | 0.6 | 5.0 | | 12 | 0,0 | - | - |
| | 12 | 3 | 0.6 | 4.6 | | 18 | 0,0 | - | - |
| | 18 | ... | - | - | | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | | | | | |
|-----------------------|----------|-------|-------------------------------|---------------------|-------------|----------|-----|-------------------------------|---------------------|------------------|--|--|--|--|
| Station : Bokaro | | | | | June, 1960. | | | | | Component : E-W. | | | | |
| 22 | 00 | 0,0 | - | - | 02 | 00 | 0,0 | - | - | | | | | |
| | 06 | 0,0 | - | - | | 06 | ... | - | - | | | | | |
| | 12 | 3 | 0.5 | 4.5 | | 12 | 3 | 0.4 | 7.5 | | | | | |
| | 18 | 3 | 0.5 | 4.5 | | 18 | 3 | 0.4 | 7.5 | | | | | |
| 23 | 00 | 0,0 | - | - | 03 | 00 | 3 | 0.4 | 7.5 | | | | | |
| | 06 | 0,0 | - | - | | 06 | ... | - | - | | | | | |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - | | | | | |
| | 18 | 3 | 0.6 | 4.5 | | 18 | 0,0 | - | - | | | | | |
| 24 | 00 | 3 | 0.7 | 4.5 | 04 | 00 | 0,0 | - | - | | | | | |
| | 06 | 2 | 0.8 | 4.5 | | 06 | 0,0 | - | - | | | | | |
| | 12 | 3 | 0.6 | 4.0 | | 12 | 0,0 | - | - | | | | | |
| | 18 | 2 | 0.8 | 5.0 | | 18 | 0,0 | - | - | | | | | |
| 25 | 00 | 2 | 0.7 | 5.0 | 05 | 00 | 0,0 | - | - | | | | | |
| | 06 | 3 | 0.7 | 4.8 | | 06 | 0,0 | - | - | | | | | |
| | 12 | 2 | 0.8 | 5.0 | | 12 | 3 | 0.4 | 3.8 | | | | | |
| | 18 | 2 | 0.7 | 5.0 | | 18 | 3 | 0.4 | 3.8 | | | | | |
| 26 | 00 | 2 | 0.7 | 5.0 | 06 | 00 | 3 | 0.4 | 3.8 | | | | | |
| | 06 | 2 | 0.6 | 4.2 | | 06 | 3 | 0.4 | 3.6 | | | | | |
| | 12 | 2 | 1.0 | 5.0 | | 12 | 3 | 0.4 | 3.7 | | | | | |
| | 18 | 2 | 1.0 | 4.5 | | 18 | 3 | 0.4 | 3.7 | | | | | |
| 27 | 00 | 2 | 1.0 | 4.8 | 07 | 00 | 3 | 0.4 | 3.8 | | | | | |
| | 06 | 2 | 0.8 | 4.5 | | 06 | 2 | 0.4 | 4.0 | | | | | |
| | 12 | 2 | 0.8 | 4.8 | | 12 | 2 | 0.4 | 4.0 | | | | | |
| | 18 | 2 | 1.0 | 5.0 | | 18 | 2 | 0.4 | 4.0 | | | | | |
| 28 | 00 | 2 | 0.9 | 4.8 | 08 | 00 | 2 | 0.4 | 4.0 | | | | | |
| | 06 | ... | - | - | | 06 | 2 | 0.4 | 4.0 | | | | | |
| | 12 | ... | - | - | | 12 | 2 | 0.4 | 4.0 | | | | | |
| | 18 | ... | - | - | | 18 | 2 | 0.4 | 4.0 | | | | | |
| 29 | 00 | ... | - | - | 09 | 00 | 2 | 0.4 | 4.0 | | | | | |
| | 06 | ... | - | - | | 06 | ... | - | - | | | | | |
| | 12 | 2 | 1.0 | 5.0 | | 12 | ... | - | - | | | | | |
| | 18 | 2 | 1.2 | 5.0 | | 18 | ... | - | - | | | | | |
| 30 | 00 | 2 | 1.2 | 5.0 | 10 | 00 | ... | - | - | | | | | |
| | 06 | 2 | 1.3 | 5.0 | | 06 | ... | - | - | | | | | |
| | 12 | 2 | 1.0 | 5.0 | | 12 | ... | - | - | | | | | |
| | 18 | 2 | 1.2 | 5.0 | | 18 | ... | - | - | | | | | |
| | | | | | 11 | 00 | ... | - | - | | | | | |
| | | | | | | 06 | 0.. | - | - | | | | | |
| | | | | | | 12 | 0.. | - | - | | | | | |
| | | | | | | 18 | 0.. | - | - | | | | | |
| Station : Port Blair. | | | | | 12 | 00 | 0.. | - | - | | | | | |
| 01 | 00 | ... | - | - | | 06 | 0.. | - | - | | | | | |
| | 06 | 0,0 | - | - | | 12 | 0.. | - | - | | | | | |
| | 12 | 0,0 | - | - | | 18 | 0.. | - | - | | | | | |
| | 18 | 0,0 | - | - | | | | | | | | | | |

| Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | Date | Hour GMT | K | Mean simple amplitude in m.m. | Mean period in sec. | |
|-----------------------|----------|-----|-------------------------------|---------------------|-------------|----------|-----|-------------------------------|---------------------|------------------|
| Station : Port Blair. | | | | | June, 1960. | | | | | Component: E -W. |
| 13 | 00 | 0.. | - | - | 23 | 00 | 3 | 0.4 | 4.0 | |
| | 06 | 0.. | - | - | | 06 | 3 | 0.4 | 4.2 | |
| | 12 | 0.. | - | - | | 12 | 3 | 0.4 | 4.0 | |
| | 18 | 0.. | - | - | | 18 | 3 | 0.4 | 4.2 | |
| 14 | 00 | 0.. | - | - | 24 | 00 | 3 | 0.4 | 4.0 | |
| | 06 | 0.. | - | - | | 06 | 3 | 0.4 | 4.2 | |
| | 12 | 0.. | - | - | | 12 | 3 | 0.4 | 4.2 | |
| | 18 | 0.. | - | - | | 18 | 3 | 0.4 | 4.2 | |
| 15 | 00 | 0.. | - | - | 25 | 00 | 3 | 0.4 | 4.2 | |
| | 06 | 0.. | - | - | | 06 | ... | - | - | |
| | 12 | 0.. | - | - | | 12 | ... | - | - | |
| | 18 | 0.. | - | - | | 18 | 3 | 0.4 | 4.2 | |
| 16 | 00 | 0.. | - | - | 26 | 00 | 2 | 1.2 | 4.2 | |
| | 06 | 0.. | - | - | | 06 | 2 | 1.2 | 4.2 | |
| | 12 | 0.. | - | - | | 12 | 2 | 1.2 | 4.3 | |
| | 18 | 0,0 | - | - | | 18 | 3 | 1.6 | 4.3 | |
| 17 | 00 | 0,0 | - | - | 27 | 00 | 2 | 1.6 | 4.3 | |
| | 06 | 0,0 | - | - | | 06 | 2 | 1.6 | 4.3 | |
| | 12 | 0,0 | - | - | | 12 | 2 | 1.6 | 4.4 | |
| | 18 | 0,0 | - | - | | 18 | 2 | 1.6 | 4.4 | |
| 18 | 00 | 0,0 | - | - | 28 | 00 | 2 | 1.6 | 4.4 | |
| | 06 | 0,0 | - | - | | 06 | 2 | 1.2 | 4.2 | |
| | 12 | ... | - | - | | 12 | 2 | 0.8 | 4.3 | |
| | 18 | ... | - | - | | 18 | 2 | 0.8 | 4.3 | |
| 19 | 00 | ... | - | - | 29 | 00 | 2 | 0.8 | 4.3 | |
| | 06 | 0,0 | - | - | | 06 | 2 | 0.8 | 4.0 | |
| | 12 | 0,0 | - | - | | 12 | 2 | 0.8 | 4.0 | |
| | 18 | 0,0 | - | - | | 18 | 2 | 0.8 | 4.0 | |
| 20 | 00 | 0,0 | - | - | 30 | 00 | 2 | 0.8 | 4.0 | |
| | 06 | ... | - | - | | 06 | ... | - | - | |
| | 12 | 3 | 0.4 | 4.0 | | 12 | 2 | 0.8 | 3.9 | |
| | 18 | 3 | 0.4 | 4.0 | | 18 | 2 | 0.8 | 4.0 | |
| 21 | 00 | 3 | 0.4 | 4.0 | | | | | | |
| | 06 | 3 | 0.4 | 4.2 | | | | | | |
| | 12 | 3 | 0.4 | 4.0 | | | | | | |
| | 18 | 3 | 0.4 | 4.0 | | | | | | |
| 22 | 00 | 3 | 0.4 | 4.0 | | | | | | |
| | 06 | 3 | 0.4 | 4.2 | | | | | | |
| | 12 | 3 | 0.4 | 4.0 | | | | | | |
| | 18 | 3 | 0.4 | 4.0 | | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

JUL 1960



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a.s.l. (Metres) | Lithographic Foundation | Instrument | Compt. | Period in secs | Static Magni- fication | Damping ratio | Paper speed mm/min. | |
|----------------------|-----------|-----------|------------------------------|--|-------------------------|---------------|----------------------|------------------------------|------------------|---------------------------|------|
| Agra | | | | | Columbia Long Period | E | To=15 | Tg=100 | | 15 | |
| | | | | | do | N | To=15 | Tg=85 | | 15 | |
| | | | | | do | Z | To=15 | Tg=70 | | 15 | |
| Bombay | 18° 54' N | 72° 40' E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To=Tg= 7 secs | | 30 | | |
| Bokaro | 23° 50' N | 85° 48' E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 | |
| Calcutta | 22° 32' N | 88° 22' E | (1) 7 | (Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | (2) 6 (Omori-Ewing) | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | Omori-Ewing | N | 16 | 32 | | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| Chatra | 25° 50' N | 87° 10' E | 161 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| | | | | | Benioff | Z | To=0 | Tg= 0.45 secs. | Critical | 60 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| Colombo | 06° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | | |
| Dehra Dun | 30° 19' N | 78° 02' E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| Hyderabad | 17° 25' N | 78° 27' E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| Kodaikanal | 10° 14' N | 77° 28' E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| Madras | 13° 00' N | 80° 11' E | 15 | | Sprengnether | E | To=Tg=72 secs | | Critical | 30 | |
| New Delhi | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | | |
| Poona | 18° 32' N | 73° 51' E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.6 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| Fort Blair | 11° 49' N | 92° 43' E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 66:1 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | |
| Shillong | 25° 34' N | 91° 53' E | 1500 | Quartzite Sand stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 | h=0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 60 | |
| | | | | | Sprengnether | E | To= Tg= 6.3 | | Critical | 30 | |
| Wenner Accelerograph | ZNE | | | | | | | | | | |
| Tocklai | 28° 45' N | 94° 45' E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | |
| Vizianagram | 18° 07' N | 83° 27' E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

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

July, 1960.

| | | | | | | |
|----|---|----|------------|-------------------|-----|---------------------------------------|
| 01 | Shillong | Z | eP | 00 04 34 | | Slight, distant. |
| 01 | Dehra Dun | NE | e | 07 57 26 | | Tremor. |
| 01 | Dehra Dun | NE | e | 07 59 36 | | Tremor. |
| 01 | Chatra | Z | eP i | 08 08 14 09 25 | | Feeble, distant. |
| 01 | Dehra Dun | NE | e i | 08 33 54 35 26 | | Feeble. |
| 01 | Shillong | Z | eP | 13 39 07 | | Slight, distant. |
| 01 | Epc:- Mariana Islands. $11\frac{1}{2}^{\circ}\text{N}$, $142\frac{1}{2}^{\circ}\text{E}$, - H = 17h. 40m. 38s. (USCGS). - h = about 60 kms. | | | | | |
| | Shillong | Z | iP | 17 48 56 | | Slight, distant. Rarefaction. |
| | Chatra | Z | e | 17 49 47 | | Very mild. |
| 02 | Epc:- $51\frac{1}{2}^{\circ}\text{N}$, $173\frac{1}{2}^{\circ}\text{W}$, Andreanof Islands, Aleutian Islands. - H = 04h. 29m. 30s. (USCGS). | | | | | |
| | Shillong | Z | iP | 04 41 01 | | Slight, distant. Compression. |
| | Chatra | Z | iP | 04 41 13 | | Feeble, distant. Compression. |
| 02 | Shillong | Z | eP Sg | 05 03 55 04 27 | 230 | Slight. |
| | Chatra | Z | e | 05 06 10 | | Mild. |
| 02 | Chatra | Z | iP | 12 14 44 | | Very feeble, distant. Compression. |
| | Shillong | Z | iP | 12 14 55 | | Slight, distant. Compression. |
| 02 | Epc:- 41°N , $131\frac{1}{2}^{\circ}\text{E}$, Sea of Japan. - H = 12h 44m 21s. - h = about 550 Kms. (USCGS). | | | | | |
| | Shillong | Z | eP | 12 50 43 | | Slight, distant, |
| | Chatra | Z | iP | 12 51 09 | | Very feeble, distant. Compression. |
| 02 | Shillong | Z | e | 21 17 57 | | Slight, distant. |
| 02 | Port Blair | E | ePg eSg | 21 59 30 59 33 | 20 | Slight. |
| | Chatra | Z | eP | 22 04 55 | | Mild, distant. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
|--------------------|--|-----------------------------------|---|---|----------|--|
| | | | | h. m. s. | km. | |
| <u>July, 1961.</u> | | | | | | |
| 02 | Shillong | Z | iP | 22 19 45 | | Slight, distant. Compression. |
| 03 | Shillong | Z | eP | 03 30 52 | | Slight, distant. |
| | Chatra | Z | iP | 03 31 03 | | Feeble, distant. Compression. |
| | Shillong | Z | iP | 05 27 38 | | Slight, distant. Compression. |
| | Chatra | Z | iP | 05 27 51 | | Very feeble, distant. Compression. |
| 03 | Chatra | Z | iP | 06 27 58 | | Feeble, distant. |
| 03 | Shillong | Z | iP | 07 27 45 | | Slight, distant. Compression. |
| 03 | Shillong | Z | e | 07 36 43 | | |
| 03 | Shillong | Z | e | 17 40 59 | | |
| 03 | Shillong | Z | i | 18 23 50 | | Slight. |
| 03 | Epc:- $50\frac{1}{2}^{\circ}$ N, 177° W, Andreanof Islands, Aleutian Islands. -H = 20h. 20m 46s Mag : $6\frac{1}{2}$ (Berk) (USCG3). | | | | | |
| | Tocklai | E | eP | 20 32 00 | | Distant. |
| | Shillong | ZNE E | P PP iS PS PPS SS SSS LQ LR | 20 32 01 34 42 36 24 41 19 41 46 42 01 45 47 49 00 50 38 54 00 | 7930 | Initial ground motion towards North, East and Rarefaction. |
| | Chatra | Z NE | iP S i | 20 32 22 41 47 41 55 | 8080 | |
| | Dehra Dun | NE N | eP PP PPP iS e SSS LQ LR M | 20 32 37 35 27 37 30 42 25 46 48 50 34 53 08 55 55 21 01 48 | 8560 | |
| | Agra | ZNE ZN ZE i ZNE ZN | iP PcP i i PP PPP | 20 32 49 33 05 33 25 33 50 35 48 37 48 | 8780 | Initial ground motion North East and rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | △ | REMARKS |
|------|---------|--------|-------|----------|-----|---------|
| | | | | h. m. s. | km. | |

July, 1961.

| | | | | | | |
|----------------|--|-----|------|----------|------------------------------------|---|
| 03 (Contd.) | Agra (Contd.) | ZNE | iS | 20 42 47 | | |
| | | ZE | SKS | 43 04 | | |
| | | ZN | PS | 43 21 | | |
| | | ZE | PPS | 44 07 | | |
| | | | e | 47 30 | | |
| | | | e | 51 48 | | |
| | | NE | LQ | 53 50 | | |
| | | N | LR | 57 31 | | |
| | ZNE | M | - | | | |
| | | | | | Period = 20 secs. Amp : 5.5 mm. | |
| | Poona | Z | iP | 20 33 00 | 9000 | |
| | | N | eP | 33 02 | | |
| | | | iS | 43 09 | | |
| | Madras | E | iP | 20 33 35 | 9690 | Initial ground movement towards East. |
| | | | PP | 36 52 | | |
| | | | PPP | 38 59 | | |
| | | | iS | 44 14 | | |
| | | | PS | 45 16 | | |
| | | | PPS | 45 42 | | |
| | Bombay | NE | eP | 20 33 36 | 9870 | Period = 18 secs. Gr. dis : = 5 μ |
| | | | PP | 37 05 | | |
| | | | eS | 44 22 | | |
| | | N | PS | 45 24 | | |
| | | | M | 21 09 56 | | |
| | | | | | | |
| 03 | Shillong | Z | iP | 23 03 46 | | Slight, distant. Compression. |
| | Chatra | Z | iP | 23 04 00 | | Very feeble, distant. Rarefaction. |
| 04 | Chatra | Z | eP | 04 17 49 | | Feeble, distant. |
| 04 | Epc:- 52°N, 131½°W, Queen Charlotte Islands. - H = 04h 28m 33s. (USCGS). Mag : 6½-6¾ (Pas). 6½ (Berk). | | | | | |
| | Shillong | Z | iP | 04 42 03 | 10660 | |
| | | N | iSKS | 52 30 | | |
| | Chatra | Z | iP | 04 42 07 | 10750 | |
| | | N | SKS | 52 37 | | |
| | Dehra Dun | NE | eP | 04 42 12 | 10270 | |
| | | | PP | 45 49 | | |
| | | | SKS | 52 40 | | |
| | | | iS | 53 14 | | |
| | | | PS | 54 18 | | |
| | | | PPS | 54 55 | | |
| | | | SS | 59 10 | | |
| | | | SSS | 05 02 55 | | |
| | | | La | 07 03 | | |
| | | | LR | 11 38 | | |
| | | | M | 18 43 | | |
| | | | | | | Period = 21.7 secs. Gr. dis : = 21.4 μ |

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

July, 1960.

| | | | | | | | | |
|----------------|------------|----|----|----|----|---|--------------------------------------|--|
| 03 (Contd.) | Bombay | E | e | 04 | 54 | 54 | | |
| | | | e. | | 55 | 50 | | |
| | | N | e | 05 | 03 | 10 | | Period = 19 secs. Gr. dis. = 14 μ Period = 19 secs. Gr. dis. 11 μ . |
| | | | M | | 35 | 20 | | |
| E | M | | 31 | 07 | | | | |
| Madras | E | e | 04 | 57 | 21 | Phases could not be identified due to strong microseismic activities. | | |
| | | e | 05 | 03 | 03 | | | |
| | Kodaikanal | E | e | 05 | 03 | 48 | | |
| | | | e | | 29 | 39 | | |
| | Port Blair | E | M | 05 | 26 | 27 | Slight. | |
| 04 | Shillong | Z | iP | 13 | 29 | 24 | Slight, distant. Compression. | |
| 04 | Shillong | Z | iP | 17 | 59 | 39 | Slight, near. Compression. | |
| 04 | Shillong | Z | iP | 18 | 01 | 09 | Slight. | |
| | | | iS | | 01 | 36 | | |
| 04 | Shillong | Z | eP | 21 | 49 | 20 | Slight, distant. | |
| 05 | Shillong | Z | eP | 01 | 15 | 12 | Slight. | |
| | | | iS | | 15 | 39 | | |
| 05 | Shillong | Z | iP | 05 | 19 | 11 | Slight, distant. Compression. | |
| | Chatra | Z | iP | 05 | 19 | 25 | Very feeble, distant compression. | |
| 05 | Shillong | Z | iP | 14 | 24 | 54 | Slight. | |
| | | | iS | | 25 | 28 | | |
| 05 | Dehra Dun | NE | e | 14 | 47 | 20 | Tremor. | |
| 05 | Dehra Dun | NE | e | 17 | 00 | 18 | Tremor. | |
| 05 | Shillong | Z | e | 17 | 13 | 39 | | |
| 05 | Shillong | Z | iP | 20 | 00 | 04 | Slight, near. | |
| 05 | Chatra | Z | eP | 21 | 33 | 59 | Very mild, distant. | |
| | Shillong | Z | iP | 21 | 34 | 04 | Slight, distant rarefaction. | |
| | | | i | | 34 | 36 | | |

 06 Epc:- $36\frac{1}{2}^{\circ}$ N, $70\frac{1}{2}^{\circ}$ E, Hindukush Region.

-h about 200 km.

-H = 05h. 16m. 44s. (USCGS).

 36.7° N, 70° E, Hindukush, -h = 200 kms.

-H = 05h. 16m. 43s. (Shillong).

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| DATE | STATION | COMPT. | PHASE | G. M. | TT. | Δ | REMARKS |
|------|---------|--------|-------|-------|-----|----------|---------|
| | | | | h. | m. | s. | km. |

July, 1960.

 06
 (Contd.)

| | | | | | |
|-----------|------------|------|----------|----------|---|
| Dehra Dun | NE | eP | 05 18 55 | 890 | Slight. |
| | N | PP | 19 02 | | |
| | | PPP | 19 10 | | |
| | | LQ | 20 15 | | |
| | | iS | 20 26 | | |
| | | SS | 20 38 | | |
| | | LR | 20 40 | | |
| | | SSS | 20 48 | | |
| | | Sg,M | 21 16 | | |
| Agra | NE | P | 05 19 21 | 1110 | Slight. |
| | | S | 21 15 | | |
| Chatra | Z | iP | 05 20 35 | 1870 | Slight, initial ground motion South and East. Compression. |
| | NE | e | 23 21 | | |
| | | S | 23 36 | | |
| Bombay | NE | eP | 05 20 42 | 1980 | Slight. |
| | N | sP | 21 33 | | |
| | N | e | | | |
| | E | i | 23 51 | | |
| | NE | SS | 24 03 | | |
| | E | SSS | 24 16 | | |
| | | e | 24 45 | | |
| Poona | Z | iP | 05 20 47 | 2090 | Slight. |
| | N | iS | 24 04 | | |
| | | SS | 24 14 | | |
| | | LR | 24 55 | | |
| | | M | 26 19 | | |
| Hyderabad | N | eP | 05 21 08 | 2150 | Slight. |
| | E | iS | 24 41 | | |
| | | LQ | 25 05 | | |
| | | LR | 25 59 | | |
| | N | LR | 26 12 | | |
| | | M | 27 41 | | |
| | | | | | Period = 9 secs. Gr. dis. = 7 μ . |
| Shillong | ZNE | iP | 05 21 18 | 2410 | Slight, initial ground motion towards South East and Compression. |
| | E | sP | 22 21 | | |
| | N | iS | IS 24 58 | | |
| Madras | E | eP | 05 21 53 | 2790 | Slight. |
| | | iS | 25 59 | | |
| | | LQ | 26 31 | | |
| | | SS | 26 48 | | |
| | | SSS | 27 00 | | |
| | | LR | 27 32 | | |
| | | M | 29 25 | | |
| 06 | Kodaikanal | E | e | 05 27 01 | Tremor. |
| 06 | Port Blair | N | iP | 05 27 50 | Slight. |
| 06 | Shillong | Z | eP | 13 23 42 | Slight, distant. |

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

July, 1960.

06 Epc:- $3^{\circ}N$, $126\frac{1}{2}^{\circ}E$, Molucca Passage.
 -H = 14h. 43m. 00s. (USCGS).
 -h = about 200 kms.

| | | | | | | |
|----|------------|---|------------|-------------------|-----|----------------------------------|
| 06 | Shillong | Z | iP | 14 50 20 | | Slight, distant. Compression. |
| 06 | Shillong | Z | iP | 14 59 57 | | Slight, distant compression. |
| 06 | Shillong | Z | ePg iSg | 15 19 53 20 00 | 60 | Slight. |
| 06 | Shillong | Z | iP | 16 31 00 | | Slight, near. |
| 06 | Shillong | Z | iP | 18 05 08 | | Slight, distant compression. |
| 06 | Chatra | Z | eP | 18 05 23 | | Feeble, distant. |
| 06 | Shillong | Z | iP | 18 17 15 | | Slight, near, compression. |
| 06 | Shillong | Z | iP iS | 18 34 33 35 07 | 300 | Slight. |
| | Tocklai | E | eP | 18 35 14 | | Slight, near. |
| | Chatra | Z | iP S | 18 35 30 36 49 | 750 | Feeble, compression. |
| 06 | Port Blair | N | iPg iSg | 22 59 37 59 41 | 30 | Slight. |

06 Epc:- $39\frac{1}{2}^{\circ}N$, $71\frac{1}{2}^{\circ}E$, Tadzhik S.S.R.
 - H = 23h 14m. 19s. (USCGS) .

| | | | | | | |
|--|-----------|----|--------|-------------------|--|------------------|
| | Dehra Dun | NE | e i | 23 15 50 17 47 | | Feeble. |
| | Chatra | Z | eP | 23 18 29 | | Very feeble. |
| | Shillong | Z | eP | 23 19 10 | | Slight, distant. |

06 Epc:- $5^{\circ}S$, $125^{\circ}E$, Banda Sea.
 -H = 23h. 17m. 09s. (USCGS).

| | | | | | | |
|--|----------|---|---------|-------------------|--|------------------|
| | Shillong | Z | eP i | 23 25 27 25 33 | | Slight, distant. |
| | Chatra | Z | P | 23 26 06 | | Very feeble. |

06 Epc:- $5\frac{1}{2}^{\circ}S$, $155^{\circ}E$, Solomon Islands.
 - H = 23h.36m.04s. (USCGS).

| | | | | | | |
|--|----------|---|----|----------|--|----------------------------------|
| | Shillong | Z | iP | 23 47 07 | | Slight, distant. Compression. |
|--|----------|---|----|----------|--|----------------------------------|

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

July, 1960.

| | | | | | | | |
|----|---|-----|--------------|-----|----|----------------------|------------------------------|
| 07 | Shillong | Z | iP | .02 | 01 | 25 | Slight, near. |
| 07 | Chatra | Z | eP | 02 | 02 | 37 | Very feeble, near. |
| 07 | Shillong | Z | iPg iSg | 03 | 59 | 08 59 21 | 110 Slight. |
| 07 | Chatra | Z | iPg Sg | 04 | 14 | 03 14 18 | 130 Very mild near. |
| 07 | Shillong | Z | iPg iSg | 14 | 19 | 45 19 59 | 110 Slight. |
| 07 | Shillong | Z | iP i | 17 | 57 | 08 57 42 | Slight, near. |
| 07 | Dehra Dun | NE | e i i | 22 | 39 | 52 41 49 42 38 | Slight. |
| 07 | Chatra | Z | iP S | 22 | 41 | 37 45 04 | 2090 Feeble. |
| 07 | Shillong | Z | iP | 22 | 42 | 24 | Slight, distant compression. |
| 08 | Port Blair | N | e | 05 | 40 | 12 | Slight. |
| 08 | Port Blair | N | e | 05 | 04 | 28 | Slight. |
| 08 | Shillong | Z | iP i i | 07 | 40 | 11 41 49 42 21 | Slight, near, rarefaction. |
| | Chatra | Z | iP i | 07 | 40 | 25 40 29 | 910 Slight. |
| | | NEZ | S | | | 41 59 | |
| | Tocklai | E | eP | 07 | 40 | 42 | Slight, near. |
| 08 | Epc:- 52°N, 174½°W, Andreanof Islands, Aleutian Islands. - H = 10h. 09m. 11s. (USCGS). | | | | | | |
| | Shillong | Z | iP | 10 | 20 | 40 | Slight, distant compression. |
| | Chatra | Z | iP | 10 | 20 | 53 | Feeble, distant rarefaction. |
| 08 | Epc:- 31°N, 130½°E, Near South Coast of Kyushu, Japan. - H = 12h 51m. 21s (USCGS). | | | | | | |
| | Shillong | Z | iP | 12 | 58 | 09 | Slight, distant compression. |
| | Chatra | Z | iP | 12 | 58 | 42 | Feeble, distant. |
| 08 | Epc:- 7°S, 129°E, Barda Sea. - H = 14h. 44m. 40s. (USCGS). | | | | | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. | △ | REMARKS |
|------|---------|--------|-------|----------|-----|---------|
| | | | | h. m. s. | km. | |

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| | | | | | | |
|----------------|--|----|-----|----------|------|--|
| 08 (Contd.) | Shillong | Z | iP | 14 53 32 | | Slight, distant compression. |
| | Chatra | Z | iP | 14 54 04 | | Feeble, distant compression. |
| 08 | Shillong | Z | i | 17 54 23 | | Slight. |
| 09 | Epc:- $52\frac{1}{2}^{\circ}$ N, $125\frac{1}{2}^{\circ}$ E, Ryukyn Islands. -H = 00h. 42m. 29s. (USCGS). | | | | | |
| | Shillong | ZE | eP | 00 48 46 | | Slight, distant. |
| | | E | i | 01 05 33 | | |
| | Dehra Dun | NE | e | 00 52 20 | | Slight. |
| 09 | Shillong | Z | eP | 06 52 01 | | Slight, near. |
| 09 | Chatra | Z | iP | 06 53 00 | 800 | Mild, near. |
| | | | S | 54 23 | | |
| 09 | Chatra | Z | eP | 08 14 16 | 2250 | Feeble. |
| | | NE | S | 17 59 | | |
| 09 | Tocklai | E | e | 08 16 18 | | Tremor, distant. |
| 09 | Shillong | E | i | 08 16 43 | | Feeble. |
| 09 | Shillong | E | e | 09 16 19 | | Feeble. |
| | | N | e | 26 49 | | |
| 10 | Epc:- 0° , 98° E, Off West Coast of Sumatra- - H = 00h. 05m. 18s. (USCGS). Epc:- 0.5° S, 97.8° E, - H = 00h. 05m. 15s. (Shillong.) | | | | | |
| | Port Blair | E | iP | 00 08 30 | 1500 | Moderate. |
| | | | iS | 11 02 | | |
| | | | M | 13 23 | | |
| | Madras | E | iP | 00 10 18 | 2410 | Moderate, initial ground motion towards West. |
| | | | i | 10 26 | | |
| | | | PP | 10 47 | | |
| | | | PPP | 10 56 | | |
| | | | iS | 14 14 | | |
| | | | LQ | 14 35 | | |
| | | | LR | 15 24 | | |
| | | | M | 17 11 | | |
| | Vizianagram | NE | iP | 00 10 26 | 2570 | Moderate, initial ground motion towards South. |
| | | | iS | 14 34 | | |
| | Kodaikanal | E | iP | 00 10 32 | 2490 | Moderate, initial ground motion towards West. |
| | | | PP | 11 02 | | |
| | | | iS | 14 35 | | |
| | | | LQ | 15 08 | | |
| | | | SSS | 15 44 | | |
| | | | LR | 16 17 | | |
| | | | M | 18 14 | | |
| | | | | | | Period = 12 secs. Gr. dis = 40 μ . |

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

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| | | | | | | |
|----------------|-----------|-----|---------|----------|------|---|
| 1C (Contd.) | Hyderabad | NE | iP | 00 10 54 | 2920 | Moderate, initial ground motion towards West and North. |
| | | E | PP | 11 34 | | |
| | | | PPP | 11 53 | | |
| | | NE | iS | 15 25 | | |
| | | E | SS | 16 39 | | |
| | | | LR | 17 38 | | |
| | | N | LR | 17 42 | | |
| | | E | M | 19 54 | | |
| | | | | | | Period = 15 secs. Gr. dis. = 18 μ . |
| | | N | M | 20 33 | | Period = 15 secs. Gr. dis. = 32 μ . |
| | Shillong | ZNE | iP | 00 10 55 | 2960 | Moderate, initial ground motion towards North and West compression. |
| | | N | PP | 11 37 | | |
| | | | iS | 15 29 | | |
| | | | SSS | 16 51 | | |
| | | | LR | 17 33 | | |
| | Tocklai | E | iP | 00 11 01 | | Slight, distant. |
| | Chatra | ZNE | iP | 00 11 19 | 3190 | Moderate. |
| | | NE | S | 16 08 | | |
| | Poona | Z | eP | 00 11 32 | 3300 | Moderate. |
| | | N | PPP | 12 46 | | |
| | | | iS | 16 28 | | |
| | | | e | 18 19 | | |
| | | | M | 21 48 | | |
| | Bombay | NE | eP | 00 21 42 | 3370 | Slight. |
| | | E | PP | 12 41 | | |
| | | E | PPP | 13 01 | | |
| | | NE | eS | 16 42 | | |
| | | | e | 17 01 | | |
| | | N | LQ | 18 15 | | |
| | | NE | e | 18 54 | | |
| | | | e | 19 20 | | |
| | | N | LR | 19 52 | | |
| | | E | LR | 20 00 | | |
| | | N | M | 23 22 | | |
| | | | | | | Period = 20 secs. Gr. dis. = 27 μ . |
| | | E | M | 26 22 | | Period = 15 secs. Gr. dis. = 18 μ . |
| | Agra | ZNE | iP | 00 11 57 | 3580 | Moderate, initial ground motion towards North and West compression. |
| | | | PPP | 13 25 | | |
| | | E | i | 14 13 | | |
| | | N | i | 15 58 | | |
| | | NE | iS | 17 10 | | |
| | | | i | 17 36 | | |
| | | | i | 17 57 | | |
| | | ZE | PcS,ScP | 18 17 | | |
| | | NE | LR | 18 55 | | |
| | | EZ | SS | 19 17 | | |
| | | ZNE | SSS | 19 45 | | |
| | | NE | LR | 20 33 | | |
| | | | ScS | 22 26 | | |
| | ZNE | M | 23 14 | | | |
| | | | | | | Period = 17 secs. Amp. = 44 mm. |

 DATE STATION COMPT. PHASE G. M. T. Δ REMARKS
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| | | | | | | |
|----|---|----------------|--|---|------|---|
| 10 | Dehra Dun (Contd.) | NE | PP PPP PcP iS PCS LQ IR M | 00 13 35 13 50 14 43 17 52 18 36 20 18 21 56 25 03 | 3930 | Moderate. Period = 14.7 secs. Gr. dis. = 29 μ . |
| 10 | Agra | ZE N ZNE | iP P iS | 13 54 22 54 22 58 26 | 2510 | Slight, initial ground motion towards East. |
| 10 | Dehra Dun | NE | e e | 13 54 47 58 26 | | Slight. |
| 11 | Chatra | Z NE | iP eS | 13 55 38 14 01 11 | 3970 | Feeble, compression. |
| 11 | Chatra | Z | iP S | 16 09 55 11 03 | 650 | Mild. |
| 11 | Dehra Dun | NE | e e | 16 43 14 47 45 | | Feeble. |
| 12 | Dehra Dun | NE | e | 08 21 12 | | Feeble. |
| 12 | Chatra | Z | iP | 09 21 34 | | Very mild, compression. |
| 12 | Chatra | Z | iP | 12 06 03 | | Feeble, distant rarefaction. |
| 12 | Shillong | Z | eP | 16 42 23 | | Feeble, near. |
| 12 | Epc:- 41°N, 142°E, Off Coast of Northern Honshu, Japan. - H = 17h. 00m, 25s. (USCGS) | | | | | |
| | Shillong | Z | iP | 17 08 41 | | Slight. |
| 13 | Epc:- Greece. Felt Chalcidice Peninsula. - H = 10h. 20m. 25s. (USCGS). | | | | | |
| | Chatra | Z | eP | 10 29 55 | | Very feeble. |
| 13 | Epc:- 41°N, 23½°E, Greece, Minor damage on Chalcidice Peninsula. - H = 13h. 01m. 00s. (USCGS). | | | | | |
| | Chatra | Z | iP | 13 10 26 | | Very feeble, distant rarefaction. |
| 13 | Shillong | Z | iP | 13 10 53 | | Slight, distant rarefaction. |
| 13 | Epc:- 15°S, 168½°E, New Hebrides Islands. - H = 14h. 28m. 44s. (USCGS). | | | | | |

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

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|----------------|--|---------------------------------------|--|--|------|---|
| 13 (Contd.) | Shillong | Z | iP | 14 41 20 | | Slight, distant rarefaction. |
| 14 | Epc:- 5°N, 127½°E, Molucca Passage. - H = 10h. 26m. 58s. (USCGS). Epc:- 6.3°N, 126.7°E, - H = 10h. 27m. 10s. (Shillong). | | | | | |
| | Port Blair | N | e i i | 10 34 04 38 18 44 16 | | Slight. |
| | Tocklai | E | iP iS | 10 34 28 40 15 | 4120 | Slight, initial ground motion towards East. |
| | Shillong | Z NE ZN E | iP eP iS iS | 10 34 38 40 35 40 37 | 4230 | Slight, rarefaction. |
| | Calcutta | E | eP PP iS | 10 34 50 36 20 41 00 | 4510 | Slight. |
| | Chatra | Z NE | iP S | 10 35 14 41 38 | 4740 | Moderate, initial ground motion towards North, compression. |
| | Madras | E | eP PP PPP iS PS PPS SS LQ LR | 10 35 38 37 34 38 22 42 30 42 36 42 45 45 34 46 35 48 56 | 5220 | Slight. |
| | Agra | ZE E ZNE N ZNE NE Z | iP i PcS,ScP iS PS PPS i ScS e | 10 36 13 36 29 41 20 43 28 43 35 43 49 43 59 45 59 47 31 | 5630 | Slight, initial ground motion towards West compression. |
| | Dehra Dan | NE N | eP i iS SS SSS,LQ LR M | 10 36 20 37 43 43 43 47 00 48 21 51 19 55 19 | 5780 | Slight. |
| | Poona | Z | eP PcP | 10 36 28 37 30 | 5910 | Feeble. |

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

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| | | | | | | |
|----------------|--|---------|-----------|-------------------|------|--|
| 14 (Contd.) | Poona | Z | PP | 10 38 30 | | |
| | | | iS | 43 58 | | |
| | | | PS | 44 05 | | |
| | Bombay | E NE | e | 10 37 22 | | Slight. |
| | | | e | 44 02 | | |
| | | | e | 46 12 | | |
| | Kodaikanal | E | e | 10 43 04 | | Tremor. |
| 14 | Chatra | Z | iPg Sg | 13 11 18 11 24 | 50 | Mild. Compression. |
| 14 | Epc:- 1° N, $120\frac{1}{2}^{\circ}$ E, (Celebes) - H = 15h. 21m. 41s. (USCGS). | | | | | |
| | Shillong | Z | iP | 15 28 50 | | Slight, distant. Rarefaction. |
| 14 | Shillong | Z | eP | 16 27 02 | | Slight, near. |
| 14 | Epc:- 7° N, $38\frac{1}{2}^{\circ}$ E (Ethiopia) -H = 18h. 39m. 34m. (USCGS). | | | | | |
| | Shillong | Z | eP | 18 49 00 | | Slight, distant. |
| | Dehra Dun | NE | e | 18 57 27 | | Feeble. |
| 14 | Epc:- 0° , 123° E, Celebes. - H = 20h. 18m. 45s. (USCGS). | | | | | |
| | Shillong | Z | eP | 20 26 18 | | Slight, distant. |
| | Chatra | Z | eP | 20 26 54 | | Mild, distant. |
| 14 | Epc:- 36° N, 70° E, Hindukush, - h = 100 kms. - H = 22h. 11m. 06s. (USCGS). Epc:- 36.5° N, 71.3° E, Hindukush. - H = 22h. 11m. 05s. (Shillong) - h = 100 kms. | | | | | |
| | Dehra Dun | NE N | eP | 22 13 14 | 940 | Slight. |
| PPP | | | 13 27 | | | |
| LQ | | | 14 37 | | | |
| iS | | | 14 48 | | | |
| SS | | | 15 00 | | | |
| LR | | | 15 03 | | | |
| SSS | | | 15 11 | | | |
| 3g,M | | | 15 44 | | | |
| | Agra | ZNE | iP iS | 22 13 40 15 37 | | Slight, initial ground motion towards North and West, rarefaction. |
| | Sehore | NE | iP | 22 14 12 | 1520 | Slight, distant. |
| | | | PP | 14 24 | | |
| | | | PPP | 14 33 | | |
| | | | S | 16 41 | | |
| | | | SS | 17 00 | | |
| | | | LR | 17 15 | | |
| | | | SSS | 17 18 | | |
| | M | 18 25 | | | | |

Period = 1 secs.

Amp : = 0.5 mm.

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| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
|--------------------|-------------|--------|-------|----------|----------|--|
| | | | | h. m. s. | km. | |
| <u>July, 1960.</u> | | | | | | |
| 14 (Contd.) | Chatra | Z | eP | 22 15 03 | 1830 | Slight. |
| | | | i | 15 07 | | |
| | | NE | S | 18 00 | | |
| | Poona | Z | iP | 22 15 08 | 2230 | Slight. |
| | | E | PP | 15 47 | | |
| | | N | eS | 18 41 | | |
| | Hyderabad | N | iP | 22 15 35 | | Slight, initial ground motion towards North. |
| | | | e | 19 25 | | |
| | | | LR | 20 36 | | |
| | | E | LR | 21 06 | | |
| | | | M | 21 59 | | |
| | | N | M | 22 08 | | Period = 6 secs. Gr. dis. = 2 u. Period = 8 secs. Gr. dis. = 3 u. |
| | | Z | iP | 22 15 51 | 2360 | Slight, compression. |
| | | E | iS | 19 34 | | |
| | Tocklai | E | eP | 22 16 08 | | Slight, distant. |
| | Madras | E | eP | 22 16 24 | 2900 | Slight. |
| | | | PP | 17 04 | | |
| | | | eS | 20 44 | | |
| | | | LQ | 21 29 | | |
| | | | LR | 22 39 | | |
| | | | M | 24 34 | | |
| | Bombay | E | e | 22 18 42 | | Slight, near. |
| | | | e | 20 39 | | |
| | Vizianagram | N | e | 22 19 34 | | Slight, distant. |
| 14 | Chatra | Z | eP | 22 28 18 | | Feeble, distant. |
| 15 | Chatra | Z | eP | 00 07 41 | | Mild. |
| 15 | Chatra | Z | eP | 04 54 57 | 170 | Mild, near. |
| | | | S | 55 17 | | |
| 15 | Shillong | Z | iP | 05 12 03 | | Slight, distant. Rarefaction. |
| 15 | Hyderabad | E | e | 05 16 45 | | Slight. Period = 15 secs. Gr. dis. = 2 u. |
| | | | M | 26 48 | | |
| 15 | Kodaikanal | E | e | 05 20 41 | | Tremor. |
| 15 | Shillong | Z | iP | 20 36 34 | | Slight, distant compression. |
| | Shillong | Z | iP | 23 02 05 | | Slight, near compression. |
| | Tocklai | E | eP | 23 02 22 | | Slight, near. |
| | Chatra | Z | eP | 23 03 04 | 750 | Mild. |
| | | | S | 04 23 | | |

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| DATE | STATION | SOMPT. | PHASE | G. M. T. | | | REMARKS |
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| | | | | h. | m. | s. | km. |
| <u>July, 1960.</u> | | | | | | | |
| 16 | Shillong | Z | iP | 04 | 15 | 35 | Slight, distant compression. |
| 16 | Chatra | Z | eP | 04 | 16 | 03 | Very feeble. |
| 16 | Dehra Dun | NE | e | 05 | 50 | 33 | Tremor. |
| 16 | Chatra | Z | eP eS | 05 | 51 | 08 52 11 | 600 Feeble. |
| 16 | Chatra | Z | iPg Sg | 09 | 17 | 51 17 59 | 70 Mild, compression. |
| 16 | Chatra | Z | eP | 13 | 40 | 24 | Mild. |
| 16 | Shillong | Z | eP | 13 | 40 | 25 | Slight, near. |
| 16 | Epc:- $21\frac{1}{2}^{\circ}$ N, 143° E, Mariana Islands Region. - H = 17h. 17m. 44s. (USCGS). - h = about 300 kms. | | | | | | |
| | Shillong | Z | iP | 17 | 25 | 49 | Slight, distant compression. |
| | Chatra | Z | iP | 17 | 26 | 21 | Feeble, distant compression. |
| 16 | Shillong | Z | iP | 19 | 18 | 39 | Slight, distant compression. |
| 16 | Epc:- $65\frac{1}{2}^{\circ}$ N, $167\frac{1}{2}^{\circ}$ W, Scaward Peninsula, Alaska. - H = 21h. 19m. 37s. (USCGS). | | | | | | |
| | Chatra | Z | i | 21 | 31 | 06 | Very feeble, distant. |
| 16 | Shillong | Z | eP | 23 | 53 | 43 | Slight, distant. |
| | Epc:- 12° N, $125\frac{1}{2}^{\circ}$ E, Samar, Philippine Islands. -H = 02h. 15m. 07s. (USCGS). | | | | | | |
| | Chatra | Z | eP i | 02 | 22 | 37 22 43 | Very feeble. |
| 17 | Epc:- 36° N, 69° E, Hindukush. - H = 05h. 14m. 56s. (USCGS). - h = about 200 kms. | | | | | | |
| | Dehra Dun | E NE | eP LQ iS LR M | 05 | 17 | 15 19 00 19 03 19 28 20 19 | 1090 Slight. |
| | Agra | ZNE | iP iS | 05 | 17 | 31 19 35 | 1270 Slight, initial ground motion towards North and West, rarefaction. |

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

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|----------------|---|----|-----------|-------------------|------|----------------------|
| 17 (Contd.) | Shillong | Z | iP | 05 19 34 | 2740 | Slight, compression. |
| | | NE | iS | 23 37 | | |
| | | N | i | 26 34 | | |
| | Chatra | Z | eP | 05 18 48 | 1930 | Slight, refraction. |
| NE | | S | 21 51 | | | |
| | Bombay | N | e | 05 18 57 | | Slight. |
| | | NE | e | 22 23 | | |
| | | E | e | 24 33 | | |
| | | | e | 25 08 | | |
| | Hyderabad | N | eP | 05 19 21 | | Slight. |
| | | | e | 23 24 | | |
| | | | e | 23 54 | | |
| | | | e | 25 03 | | |
| | | | e | 27 21 | | |
| | Calcutta | E | e | 05 19 33 | | Slight. |
| | | | i | 26 00 | | |
| | | | i | 26 58 | | |
| | Poona | E | e | 05 22 20 | | Slight. |
| | | N | e | 26 21 | | |
| | | | e | 27 00 | | |
| | | | e | 27 12 | | |
| | Madras | E | e | 05 24 32 | | Moderate. |
| | | | e | 24 59 | | |
| | | | M | 28 39 | | |
| | Kodaikanal | E | e | 05 25 32 | | Tremor. |
| 17 | Shillong | Z | eP iS | 05 57 16 57 41 | 210 | Slight. |
| 17 | Shillong | Z | eP | 08 06 25 | | Slight, near. |
| 17 | Chatra | Z | ePg Sg | 09 08 52 09 02 | 90 | Mild. |
| 17 | Shillong | Z | eP i | 12 32 24 32 41 | | Slight, near. |
| 18 | Epc:- Nicobar Islands. - H = 00h. 53m. 54s. (USCGS). | | | | | |
| | Port Blair | E | iP iS | 00 54 14 55 22 | 650 | Slight. |
| | | | | | | |
| | Madras | E | eP | 00 57 37 | 1770 | Slight. |
| | | | PP | 57 52 | | |
| | | | PPP | 58 00 | | |
| | | | LQ | 01 00 29 | | |
| | | | iS | 00 34 | | |
| | | | LR M | 01 18 02 36 | | |

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| | | | | | | |
|----------------|---|----------------------|---|--|------|------------------|
| 18 (Contd.) | Shillong | E | eP eS | 00 58 26 01 02 02 | 2190 | Slight. |
| | Tocklai | E | e | 00 58 29 | | Slight, distant. |
| | Chatra | Z | eP | 00 58 42 | | Slight. |
| | Poona | Z | eP iS | 00 59 03 01 03 17 | 2640 | Slight. |
| | Bombay | NE E NE | eP e eS | 00 59 16 59 26 01 03 30 | 2650 | Slight. |
| | Agra | ZNE E N ZNE | P i i iS | 00 59 26 01 03 48 03 56 04 02 | 2990 | Slight. |
| | Colombo | E | e M | 01 01 20 03 35 | | Amp. = 1.0 mm. |
| | Kodaikanal | E | e | 01 01 24 | | Tremor. |
| | Dehra Dun | NE | e i i | 01 01 37 05 02 05 54 | | Slight. |
| 18 | Epc:- Nicobar Islands. - H = 01h. 15m. 07s. (USCGS). | | | | | |
| | Port Blair | E | iP iS | 01 16 34 17 41 | 630 | Slight. |
| | Madras | E | e e | 01 18 59 19 24 | | Feeble. |
| | Chatra | Z | eP | 01 20 01 | | Slight. |
| | Poona | Z | eP | 01 20 25 | | Tremor. |
| | Bombay | E | e | 01 21 47 | | |
| 18 | Port Blair | E | iP iS | 01 25 14 26 22 | 650 | Slight. |
| | Madras | E | eP eP eP i i LQ eS LR M | 01 47 18 47 30 47 37 47 59 48 29 50 01 50 06 50 44 51 59 | 1660 | Slight. |
| | Shillong | E | e | 01 48 36 | | Feeble. |

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

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| | | | | | | |
|----------------|--|----------------|---|--|------|----------------------|
| 18 (Contd.) | Chatra | Z | eP | 01 48 42 | | Slight. |
| | Poona | Z | eP iS LQ | 01 49 12 53 19 53 52 | 2550 | Slight. |
| | Bombay | E NE E | e e e | 01 49 24 50 15 53 38 | | Slight. |
| | Agra | ZNE E NE | P i iS | 01 49 30 53 48 53 58 | 2880 | Slight. |
| | Colombo | E | e | 01 51 15 52 50 | | |
| 18 | Epc:- $4\frac{1}{2}^{\circ}$ S, 151° E, New Britain Region. Felt. - h = about 200 kms. - H = 01h. 43m. 29s. (USCGS). | | | | | |
| | Chatra | Z | iP | 01 54 31 | | Slight, rarefaction. |
| 18 | Chatra | Z | ePg | 02 17 35 | | Mild, near. |
| 18 | Port Blair | E | e | 06 07 30 | | Slight. |
| 18 | Chatra | Z | iP Pg PP PPP NE iS, Sg SS Z i | 09 41 46 41 48 41 53 41 59 42 05 42 15 42 37 | 150 | Slight. |
| | Shillong | ZE E | iP iS i i | 09 42 36 43 33 43 37 43 48 | 530 | Slight, rarefaction. |
| | Dehra Dun | NE | e i | 09 43 11 44 37 | | Feeble. |
| | Poona | Z | e | 09 47 30 | | Tremor. |
| 18 | Port Blair | N | e | 10 43 43 | | Slight. |
| 18 | Epc:- $37\frac{1}{2}^{\circ}$ N, $70\frac{1}{2}^{\circ}$ E, Hindukush. - H = 16h. 51m. 41s. (USCGS). | | | | | |
| | Dehra Dun | NE | e i i i | 16 54 02 54 39 55 52 56 40 | | Slight. |
| | Chatra | Z NE | eP e | 16 54 51 57 58 | | Slight. |

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| | | | | | | |
|----------|--|-----|-----|----------|------|---|
| 18 | Shillong | ZE | iP | 16 56 37 | | Slight, distant rarefaction. |
| (Contd.) | | E | e | 17 00 40 | | |
| | Agra | ZNE | iS | 16 56 42 | | Slight, near. |
| 18 | Bombay | E | e | 17 01 36 | | |
| | | N | e | 03 35 | | |
| 18 | Madras | E | e | 17 02 19 | | Slight. |
| | | | e | 03 35 | | |
| | | | e | 04 31 | | |
| | | | e | 05 32 | | |
| 18 | Poona | Z | e | 17 56 03 | | Feeble. |
| 18 | Madras | E | e | 23 05 41 | | Slight. |
| 19 | Dehra Dun | NE | e | 02 33 30 | | Tremor. |
| 19 | Dehra Dun | NE | e | 11 32 48 | | Tremor. |
| 19 | Epc:- $13\frac{1}{2}^{\circ}$ N, 146° E, Mariana Islands. - H = 18h. 29m. 31s. (USCGS). -h = about 100 kms. | | | | | |
| | Chatra | Z | eP | 18 39 16 | | Feeble. |
| 20 | Chatra | Z | eP | 05 54 43 | | Mild, near. |
| 20 | Epc:- 49° N, $157\frac{1}{2}^{\circ}$ E, Murile Islands Region. - H = 09h. 30m. 38s. (USCGS). | | | | | |
| | Chatra | Z | iP | 09 40 32 | 6420 | Slight. |
| | | NE | eS | 48 31 | | |
| | Dehra Dun | NE | eP | 09 41 02 | 6720 | Slight. |
| | | N | iS | 49 17 | | |
| | | | SSS | 55 39 | | |
| | | | M | 10 03 21 | | |
| | Agra | ZNE | iP | 09 41 11 | 7030 | Slight, initial ground motion towards North and West rarefaction. |
| | | | iS | 49 43 | | |
| | Port Blair | N | i | 09 41 27 | | Slight. |
| | Hyderabad | E | eP | 09 42 00 | 7660 | Slight. |
| | | | iS | 51 05 | | |
| | | | M | 10 09 59 | | Period = 15 secs. Gr. dis. = 4 μ |
| | Poona | Z | iP | 09 42 06 | | Feeble. |
| | Bombay | NE | eP | 09 42 08 | 8110 | Slight. |
| | | | eS | 51 35 | | |
| | | N | M | 10 11 - | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS. |
|------|---------|--------|-------|----------|----------|----------|
| | | | | h. m. s. | Km. | |

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|----|---|----|-----|----------|------|------------------------------|
| 20 | Chatra | Z | e | 12 46 35 | | Very mild. |
| 20 | Dehra Dun | NE | e | 15 23 20 | | Feeble. |
| | | | e | 24 36 | | |
| 20 | Chatra | Z | e | 18 30 59 | | Mild, near. |
| 20 | Port Blair | E | i | 20 21 53 | | Slight. |
| 20 | Chatra | Z | ip | 21 12 23 | 9510 | Feeble, compression. |
| | | NE | eS | 22 55 | | |
| 20 | Poona | Z | eP | 21 58 16 | | Tremor. |
| 21 | Chatra | Z | iP | 08 37 23 | | Very feeble, rarefaction. |
| 21 | Chatra | Z | iP | 17 03 52 | | Very feeble, compression. |
| 22 | Chatra | Z | iPg | 04 48 53 | 90 | Very mild, compression. |
| | | | Sg | 49 03 | | |
| 22 | Shillong | Z | iP | 07 41 56 | | Slight, distant compression. |
| 22 | Shillong | Z | e | 17 12 11 | | |
| 22 | Shillong | Z | eP | 19 25 50 | | Slight, distant. |
| 22 | Chatra | Z | eP | 19 26 27 | | Very feeble. |
| 22 | Shillong | Z | eP | 20 08 19 | | Slight, distant. |
| 22 | Shillong | Z | iP | 21 39 53 | | Slight, distant compression. |
| 22 | Shillong | Z | iP | 23 35 50 | | Slight, near. |
| 23 | Shillong | Z | eP | 00 12 06 | | Slight, distant. |
| 23 | Chatra | Z | eP | 00 12 37 | | Very feeble. |
| 23 | Shillong | Z | eP | 00 40 33 | | Slight, distant. |
| 23 | Shillong | Z | iP | 01 13 19 | | Slight, distant compression. |
| 23 | Shillong | Z | iP | 07 12 18 | | Slight, distant compression. |
| 23 | Epc: $21\frac{1}{2}^{\circ}$ S, $179\frac{1}{2}^{\circ}$ W, Fiji Islands. | | | | | |
| | -H= 07 h. 31 m. 38 s. (USCGS). | | | | | |
| | -h= about 600 kms. | | | | | |
| | Shillong | Z | eP | 07 44 16 | | Slight, distant. |

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| | | | | h. m. s. km. | | |
| <u>July, 1960</u> | | | | | | |
| 23 | Shillong | Z | eP iS | 16 39 22 39 55 | 300 | Slight. |
| 23 | Shillong | Z | e | 17 13 00 | | |
| 23 | Shillong | Z | iP | 21 03 49 | | Slight, distant compression. |
| 23 | Shillong | Z | e i | 22 46 49 46 53 | | Slight, distant. |
| 24 | Shillong | Z | iP | 02 23 06 | | Slight, distant rarefaction. |
| 24 | Chatra | Z | eP | 07 36 39 | | Very mild. |
| 24 | Kodaikanal | E | e | 08 09 30 | | Tremor. |
| 24 | Shillong | Z | iP | 09 43 59 | | Slight, distant compression. |
| 24 | Dehra Dun | NE | e | 10 08 01 | | Feeble. |
| 24 | Dehra Dun | NE | e | 10 19 31 | | Tremor. |
| 24 | Hyderabad | N | M | 10 29 40 | | Period = 15 secs. |
| | | E | M | 30 11 | | Gr. dis. = 6 μ period = 15 secs. Gr. dis = 7 μ . |
| | Colombo | E | e M | 10 32 30 41 40 | | amp. = 0.3 mm. |
| 24 | Dehra Dun | NE | e | 10 45 18 | | Tremor. |
| 24 | Dehra Dun | NE | e i | 13 55 05 55 47 | | Feeble. |
| | Chatra | Z | iP | 13 55 27 | 545 | Slight, rarefaction. |
| | | N | iS | 56 25 | | |
| | Shillong | Z | eP | 13 56 23 | | Slight, near. |
| 24 | Shillong | Z | i | 13 58 03 | | |
| 24 | Shillong | Z | iP | 16 52 14 | | Slight, distant compression. |
| 24 | Shillong | Z | iPg iSg | 16 52 21 52 29 | 70 | Slight. |
| 25 | Epc: 55° N, 163° E, Near Coast of Kamchatka. | | | | | |
| | Mag: 6½ (Pas), 5¼, 6 (Berk). | | | | | |
| | -H= 03 h. 41 m. 05 s. (USCGS) | | | | | |
| | Epc: 56.3° N, 163.6° E, -H= 05 h. 41 m. 05 s. (Shillong). | | | | | |
| | Shillong | Z | eP | 03 51 07 | 6470 | Period = 20 secs. |
| | | N | eS | 59 14 | | Gr. dis. = 6 μ . |
| | | Mn | | 04 21 - | | |

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| | | | | G. M. T. | h. | m. s. km. | |
| 25 | Chatra | Z | eP | 03 | 51 | 19 | 6630 Period = 14 secs. Gr. dis:=30u Period = 15½ secs. Gr. dis= 82 µ |
| | | NE | eS | | 59 | 29 | |
| | | N | M | 04 | 21 | 22 | |
| | | E | M | | 20 | 21 | |
| | Dehra Dun | NE | eP | 03 | 51 | 32 | 6710 Period = 15 secs. Gr. dis= 26 µ |
| | | N | iS | | 59 | 46 | |
| | | | e | 04 | 02 | 38 | |
| | | | e | | 04 | 50 | |
| | | | LQ | | 05 | 31 | |
| | | | M | | 13 | 41 | |
| | Agra | ZNE | iP | 03 | 51 | 48 | 7140 Initial ground motion towards South and West compression. Period = 16 secs. Amp:= 40 mm. |
| | | | i | | 52 | 00 | |
| | | N | PP | | 54 | 46 | |
| | | ZNE | iS | 04 | 00 | 26 | |
| | | N | SS | | 05 | 10 | |
| | | Z | SSS | | 07 | 56 | |
| | | NE | LR | | 12 | 01 | |
| | Hyderabad | E | eS | 04 | 01 | 55 | Period = 19 secs. Gr. dis:= 100 u. Period = 18 secs. Gr. dis:= 57 µ |
| | | | PPS | | 02 | 44 | |
| | | | LQ | | 11 | 00 | |
| | | | LR | | 15 | 36 | |
| | | N | M | | 20 | 54 | |
| | | E | M | | 21 | 15 | |
| | Bombay | NE | eP | 03 | 52 | 47 | 8200 Period = 18 secs. Gr. dis:= 18 µ. Period:= 15 secs. Gr. dis:= 13 µ. |
| | | | eS | 04 | 02 | 18 | |
| | | N | M | | 29 | 09 | |
| | Poona | E | M | | 29 | 51 | |
| | | Z | eP | 03 | 52 | 48 | 8200 |
| | | N | iS | 04 | 02 | 19 | |
| | Madras | | M | | 20 | 23 | |
| | | E | iP | 03 | 52 | 53 | 8310 |
| | | | PP | | 55 | 43 | |
| | | | iS | 04 | 02 | 30 | |
| | | | PS | | 03 | 03 | |
| | | PPS | PPS | | 03 | 17 | |
| | | | SS | | 07 | 17 | |
| | | | SSS | | 10 | 27 | |
| | | | LQ | | 12 | 29 | |
| | | | LR | | 16 | 23 | |
| | Kodaikanal | | M | | 25 | 27 | |
| | | E | iS | 04 | 03 | 13 | Period = 20 secs. Gr. dis:= 11.9 µ. |
| | | | LQ | | 13 | 22 | |
| | M | | 26 | 22 | | | |

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| DATE | STATION | COMPT | PHASE | G. M. T. / | | REMARKS |
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| | | | | h. | m. s. km. | |
| <u>July, 1960</u> | | | | | | |
| 25 | Colombo | E | e | 04 | 03 20 | Amp.= 1.0 mm. |
| | | | M | | 31 35 | |
| 25 | Port Blair | E | e | 04 | 15 29 | Slight. |
| 25 | Epc: 54 N, 159° E, Kamchatka. -H= 11h. 12m. 00 s. (USCGS) -h= about 100 kms. Mag: 6 $\frac{1}{4}$ (Berk), 7 (Pas). Epc:- 53.5° N, 154° E, -H=11 h. 12 m. 05 s.. (Shillong). | | | | | |
| | Tocklai | E | eP | 11 | 21 23 | Distant. |
| | Shillong | ZNE | iP | 11 | 21 33 | 6190 Initial ground movement towards North and East, rarefaction. |
| | | E | PcP | | 22 27 | |
| | | | PP | | 23 41 | |
| | | | PPP | | 25 01 | |
| | | NE | iS | | 29 07 | |
| | | E | PS | | 29 24 | |
| | | | i | 12 | 00 10 | |
| | | ScS | | 01 06 | | |
| | Chatra | Z | iP | 11 | 21 47 | 6480 Rarefaction, initial ground motion towards North and East. |
| | | NE | iS | | 29 37 | |
| | Dehra Dun | NE | eP | 11 | 22 08 | 6700 |
| | | N | PP | | 24 27 | |
| | | | e | | 25 04 | |
| | | | iS | | 30 10 | |
| | | | SS | | 34 19 | |
| | | | SSS | | 36 00 | |
| | | | LR | | 38 12 | |
| | | | M | | 43 25 | |
| | Agra | ZNE | iP | 11 | 22 18 | 7030 Initial ground motion towards North and East, rarefaction. |
| | | NE | i | | 22 24 | |
| | | | i | | 22 34 | |
| | | ZN | PcP | | 22 59 | |
| | | ZNE | PP | | 25 02 | |
| | | NE | i | | 25 42 | |
| | | | PPP | | 26 16 | |
| | | | PcP, ScP | | 26 59 | |
| | | EZ | i | | 27 43 | |
| | | ZNE | iS | | 30 38 | |
| | | E | i | | 30 47 | |
| | | NE | PS | | 30 53 | |
| | | N | PFS | | 31 13 | |
| | | ZE | i | | 31 26 | |
| | | N | i | | 31 38 | |
| | | NE | ScS, SKS | | 32 00 | |
| | | NE | i | | 32 58 | |
| | | Z | SS | | 34 39 | |
| | | NE | SSS | | 37 13 | |
| | | N | LQ | | 37 59 | |
| | | ZN | i | | 38 47 | |
| | | ZNE | LR | | 41 07 | |
| | | | i | | 44 12 | |
| | | | M | | - | |

 Period = 25 secs.
 Amp:= 32.5 mm.

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|-----------|------------|-------|-----|----------|------|---|---|
| 25 | Port Blair | E | iP | 11 22 46 | 7390 | | |
| | | | PcP | 23 23 | | | |
| | | | PP | 25 09 | | | |
| | | | iS | 31 24 | | | |
| | | | SKS | 32 31 | | | |
| | | | M | 47 32 | | | |
| (contd..) | | | | | | | |
| | Hyderabad | E | iP | 11 23 09 | 7650 | Initial ground motion East. | |
| | | | PP | 25 44 | | | |
| | | | PPP | 27 27 | | | |
| | | | iS | 32 06 | | | |
| | | | PPS | 32 54 | | | |
| | | | e | 37 09 | | | |
| | | | SSS | 39 24 | | | |
| | | | LQ | 41 09 | | | |
| | | | LR | 43 36 | | | |
| | | | M | 50 05 | | | |
| | | | | | | Period = 15 secs. Gr. dis:= 14 μ . | |
| | Poona | Z | iP | 11 23 20 | 7910 | | |
| | | | N | PP | | | 26 04 |
| | | | | iS | | | 32 25 |
| | | | | PPS | | | 33 10 |
| | | | | SS | | | 36 58 |
| | Bombay | NE | iP | 11 23 22 | 7980 | | |
| | | | e | 24 11 | | | |
| | | | PP | 26 02 | | | |
| | | E | PPP | 27 53 | | | |
| | | | i | 28 44 | | | |
| | | | iS | 32 30 | | | |
| | | | PS | 33 07 | | | |
| | | | N | PS | | | 33 14 |
| | | | PPS | 33 35 | | | |
| | | | e | 34 21 | | | |
| | | E | SS | 37 34 | | | |
| | | | LQ | 42 04 | | | |
| | | | M | 56 52 | | | |
| N | M | 57 00 | | | | | |
| | | | | | | | Period = 16 secs. Gr. dis:= 16 μ . Period= 15 secs. Gr. dis:= 11 μ . |
| | Madras | E | iP | 11 23 23 | 8110 | Initial ground motion towards East. | |
| | | | PcP | 23 35 | | | |
| | | | PP | 26 07 | | | |
| | | | PPP | 27 53 | | | |
| | | | iS | 32 38 | | | |
| | | | PS | 33 13 | | | |
| | | | PPS | 33 27 | | | |
| | | | SS | 37 17 | | | |
| | | | i | 38 21 | | | |
| | | | SSS | 40 21 | | | |
| | | | LQ | 42 19 | | | |
| LR | 45 26 | | | | | | |

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| | | | | | | |
|----------------|---|----------|----------|-------------------|------|---|
| 25 (Contd.) | Kodaikanal | E | eP | 11 25 40 | 8550 | |
| | | | IS | 33 15 | | |
| | | | SKS | 33 40 | | |
| | | | PFS | 34 15 | | |
| | | | SS | 38 28 | | |
| | | | SSS | 41 29 | | |
| | | | LQ | 45 52 | | |
| | | | LR | 47 33 | | |
| | | | M | 55 33 | | Period=15 secs. Gr. dis:= 4.8 μ . |
| | Colombo | E | e | 11 25 50 | | |
| | | | e | 44 20 | | |
| | | | M | 12 14 35 | | Amp= 0.9 mm. |
| 25 | Chatra | Z | 1P | 11 29 45 | | |
| 25 | Chatra | Z | e | 11 31 29 | | |
| 25 | Chatra | Z | e | 11 51 33 | | |
| 25 | Shillong | Z | 1P | 15 06 40 | | Slight, distant compression. |
| 25 | Epc: 53.4° N, 159.4° E, Near Coast of Kamchatka. | | | | | |
| 25 | Epc -H= 15 h. 30 m. 36 s. (USCGS). -h = about 152 kms. | | | | | |
| | Shillong | Z | 1P | 15 40 07 | | Slight, distant rarefaction. |
| | Chatra | Z | 1P | 15 40 22 | | Very feeble, compression. |
| 25 | Shillong | Z | 1P | 16 05 44 | | Slight, near rarefaction. |
| 25 | Shillong | Z | i | 20 02 51 | | |
| 25 | Epc: 32° N, 56½° E, Iran. -H= 21 h. 11 m. 36 s. (USCGS) | | | | | |
| | Chatra | Z | eP | 21 17 35 | | Feeble. |
| | Shillong | Z | eP | 21 18 06 | | Slight, distant. |
| | Dehra Dun | NE | e | 21 19 27 | | Slight. |
| | | | i | 22 40 | | |
| | | | i | 23 28 | | |
| 25 | Shillong | ZNE E | 1P IS | 21 46 32 47 01 | 250 | Felt, slight, initial ground movement towards South and West, compression. |
| | Tocklai | E | e | 21 46 38 | | Slight, near |
| | Chatra | Z | eP S | 21 47 31 48 45 | 710 | Feeble. |
| | Shillong | Z | 1P | 22 47 08 | | Slight, distant compression. |

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| 26 | Shillong | Z ZE | iP iS | 02 06 00 320 06 36 | Slight, compression. |
| 26 | Chatra | Z NE | iP eS | 02 06 58 780 08 19 | Mild, |
| 26 | Shillong | Z | eP | 03 49 17 | Slight, distant. |
| 26 | Epc: 40 $\frac{1}{2}$ ^o N, 37 ^o E, Turkey. -H= 12 h. 36 m. 20 s. (USCGS). | | | | |
| | Shillong | Z | eP | 12 44 51 | Slight, distant. |
| 26 | Shillong | | eP | 14 41 35 | Slight, distant. |
| 26 | Dehra Dun | NE | e | 20 07 39 | Tremor. |
| | Chatra | Z | iP | 20 07 48 | Feeble, distant rarefaction. |
| | Shillong | Z | e i | 20 08 50 08 51 | Slight, distant. |
| 26 | Chatra | Z | eP | 20 10 44 | Very feeble, distant. |
| 26 | Shillong | Z | e | 23 23 09 | Slight, near. |
| 26 | Shillong | Z | ep | 23 25 22 | Slight, near. |
| 27 | Shillong | Z | iP | 04 16 26 | Slight, distant rarefaction. |
| 27 | Shillong | Z | iP | 08 05 33 | Slight, distant, rarefaction. |
| 27 | Epc:- 5.6 ^o S, 103.6 ^o E, Near Coast of Sumatra. -H= 08 h. 56 m. 22 s. (USCGS). -h= about 93 kms. | | | | |
| | Shillong | Z | iP | 09 02 54 | Slight, distant compression. |
| | Chatra | Z | iP | 09 03 20 | Feeble, distant compression. |
| 27 | Dehra Dun | E | M | 11 22 42 | Period = 24 secs. Gr. dis.= 8 μ . |
| 27 | Shillong | Z | iP i | 12 24 54 26 28 | Slight, distant, compression. |
| 28 | Shillong | Z | e i | 00 18 11 19 20 | Near. |
| 28 | Port Blair | E | e | 00 37 33 | Slight. |
| 28 | Shillong | Z | iP | 01 29 14 | Slight, distant rarefaction. |
| 28 | Shillong | Z | iP | 04 25 46 | Slight, distant rarefaction. |

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| ----- July, 1960. | | | | | | |
| 28 | Chatra | Z | iPg | 05 22 56 | 60 | Very mild, rarefaction. |
| | | N | Sg | 23 03 | | |
| 28 | Shillong | Z | iP | 10 26 28 | | Slight, distant compression. |
| 28 | Shillong | Z | iP | 10 48 04 | | Slight, distant compression. |
| 28 | Shillong | Z | eP | 16 19 35 | | Slight, near. |
| 28 | Shillong | Z | iP | 16 35 28 | | Slight, near compression. |
| 28 | Shillong | Z | iP | 16 45 20 | | Slight, distant compression. |
| 28 | Chatra | Z | iP | 17 05 41 | | Very feeble, distant. |
| 28 | Shillong | Z | eP | 17 06 18 | | Slight, distant. |
| 28 | Shillong | Z | iP | 21 08 09 | | Slight, compression. |
| 29 | Shillong | Z | eP | 00 09 48 | | Slight, distant. |
| 29 | Shillong | Z | i | 00 14 29 | | Feeble, near. |
| 29 | Epc: $19\frac{1}{2}^{\circ}$ S, $170\frac{1}{2}^{\circ}$ E, Loyalty Islands. Mag: $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas), $6\frac{1}{2}$ - $6\frac{3}{4}$ (Berk). -H= 00 h. 24 m. 06 s. (USCGS). | | | | | |
| | Shillong | Z | iP | 00 37 03 | | Distant, rarefaction. |
| | Dehra Dun | NE | e | 00 40 07 | | |
| | | | e | 49 45 | | |
| | Hyderabad | N | M | 01 26 35 | | Period = 15 secs. |
| | | E | M | 26 38 | | Gr. dis: = 4 u. |
| | | | | | | Period = 14 secs. |
| | | | | | | Gr. dis: = 3 u. |
| 29 | Shillong | Z | iP | 01 33 12 | | Slight, distant rarefaction. |
| 29 | Dehra Dun | NE | e | 02 40 14 | | Tremor. |
| 29 | Shillong | Z | iP | 03 03 10 | 290 | Slight, compression. |
| | | | iS | 03 43 | | |
| 29 | Shillong | Z | eP | 03 06 42 | | Slight, distant. |
| 29 | Shillong | Z | iPg | 09 03 29 | 90 | Slight. |
| | | | iSg | 03 39 | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | REMARKS |
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| | | | | | |
|----------------|---|-----|-------|---------------------------------|--|
| 29 (Contd.) | Chatra | Z | iP | 09 04 02 | Feeble. |
| | | | i | 04 09 | |
| | | NE | e | 04 23 | |
| | | | e | 05 02 | |
| 29 | Dehra Dun | NE | e | 09 08 08 | Tremor. |
| 29 | Epc:- 26.9° N, 90.3° E, India. - H = 10h. 42m. 44.6s. - h = about 11 kms. (USCGS). Epc:- 26.5° N, 89.9° E, Assam-Bhutan Border. - H = 10h. 42m. 45s. (Shillong). Mag : 6.5 (Shillong). | | | | |
| | Shillong | ZNE | iP | 10 43 19 | 210 Moderate, initial ground motion South and East Compression. |
| | | NE | iS | 43 44 | |
| | Chatra | Z | iP | 10 43 33 | Moderate. |
| | | NE | i | 43 39 | |
| | | | i | 43 41 | |
| | | | e | 44 06 | |
| | | N | i | 44 10 | |
| | | | e | 44 21 | |
| | Tocklai | E | iP | 10 43 45 | Moderate, initial ground motion towards West. |
| | Agra | ZNE | iP | 10 45 25 | 1180 Slight, initial ground motion towards North and West Rarefaction. |
| | | ZE | PP | 45 31 | |
| | | NE | PPP | 45 49 | |
| | | E | i | 46 17 | |
| | | ZNE | i | 46 30 | |
| | | N | i | 47 17 | |
| | Agra | ZNE | iS | 10 47 25 | |
| | | | i | 48 07 | |
| | | ZN | i | 48 29 | |
| | | ZNE | M | 48 42 | |
| | Dehra Dun | NE | eP | 10 45 30 | 1170 Slight. |
| | | N | PPP | 45 45 | |
| | | | LQ | 47 19 | |
| | | | iS | 47 30 | |
| | | | SS | 47 45 | |
| | | | LR | 47 52 | |
| | | | SSS | 47 55 | |
| | | | Sg, M | 48 41 | |
| | Sehore | NE | eP | 10 45 41 | 1320 Slight. |
| | | | iS | 47 56 | |
| | | | SS | 48 09 | |
| | | | LR | 48 21 | |
| | | | M | 49 19 | |
| | | | | Period = 4 secs. Amp : 1 mm. | |

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|----------------|---|--------|-------|----------|----------|--|-------|
| | | | | h. m. s. | km. | | |
| 29 (Contd.) | Port Blair | N | eP | 10 46 18 | 1590 | Slight. | |
| | | | eS | 48 58 | | | |
| | Madras | D | iP | 10 46 35 | 1800 | Slight. | |
| | | | PP | 46 47 | | | |
| | | | PPP | 46 56 | | | |
| | | | iS | 49 35 | | | |
| | | | LQ | 49 35 | | | |
| | | | SS | 49 55 | | | |
| | | | SSS | 50 04 | | | |
| | | | LR | 50 17 | | | |
| | | | M | 51 48 | | | |
| | Poona | Z | eP | 10 46 49 | 1950 | Moderate. | |
| | | | N | eS | | | 50 03 |
| | | | | SSS | | | 50 39 |
| | | | | LR | | | 50 53 |
| | Hyderabad | N | eS | 10 48 53 | | Moderate. Period = 7 secs. Gr. dis. = 4 μ , | |
| | | | i | 49 59 | | | |
| | | | M | 51 56 | | | |
| | Bombay | NE | eS | 10 50 16 | | Very slight, near tremor. Period = 7 secs. Gr. dis. = 27 μ . Period = 7 secs. Gr. dis. = 18 μ . | |
| | | | N | M | | | 52 06 |
| | | E | M | 52 09 | | | |
| | Kodaikanal | E | e | 10 51 09 | | Tremor. | |
| | Colombo | E | e | 10 51 48 | | | |
| 29 | Shillong | Z | iP | 11 18 50 | 190 | Slight, rarefaction. | |
| | | | Pg | 18 53 | | | |
| | | | PP | 18 57 | | | |
| | | | iS | 19 13 | | | |
| 29 | Shillong | Z | iP | 11 26 51 | 190 | Slight, rarefaction. | |
| | | | iS | 27 14 | | | |
| 29 | Shillong | Z | iP | 11 43 26 | | Slight, near compression. | |
| 29 | Shillong | Z | iP | 12 46 29 | 180 | Slight, compression. | |
| | | | iS | 46 51 | | | |
| 29 | Chatra | Z | eP | 12 53 54 | | Feeble, near. | |
| 29 | Epc:- 31.7°N, 67.0°E, Eastern Afganistan Felt. Quetta (Pakistan). | | | | | | |
| | - H = 14h. 33m. 46.1s. (USCGS). | | | | | | |
| | - h = about 64 kms. | | | | | | |
| | Dehra Dun | NE | eP | 14 36 04 | 980 | Slight. | |
| | | | N | PP | | | 36 11 |
| | | | | PPP | | | 36 20 |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | | | REMARKS |
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| | | | | h. | m. | s. | |
| | | | | | | | km. |
| <u>July, 1960</u> | | | | | | | |
| 29 (Contd.) | Dehra Dun (Contd.) | N | LQ | 14 | 37 | 36 | |
| | | | iS | | 37 | 45 | |
| | | | SS | | 37 | 57 | |
| | | | LR | | 38 | 01 | |
| | | | SSS | | 38 | 07 | |
| | | | Sg, M | | 38 | 41 | |
| | Agra | ZNE | iP | 14 | 36 | 23 | 1190 Moderate. |
| | | | iS | | 38 | 25 | Initial ground movement |
| | | | M | | | | towards North, West, |
| | | | | | | | rarefaction. |
| | | | | | | | Period = 14 secs. |
| | | | | | | | Gr. dis. = 74 mm. |
| | Sehore | NE | eP | 14 | 36 | 38 | 1310 Slight. |
| | | | LQ | | 38 | 48 | |
| | | | eS | | 38 | 51 | |
| | | | LR | | 39 | 10 | |
| | | | M | | 40 | 08 | |
| | Poona | Z | eP | 14 | 37 | 14 | 1590 Slight. |
| | | N | eS | | 39 | 54 | |
| | | | SS | | 40 | 10 | |
| | | | LR | | 40 | 27 | |
| | Chatra | Z | iP | 14 | 37 | 56 | 1870 Moderate. |
| | | NE | PP | | 38 | 07 | |
| | | | eS | | 41 | 03 | |
| | | | SS | | 41 | 22 | |
| | | | SSS | | 41 | 33 | |
| | Hyderabad | N | eP | 14 | 37 | 56 | 1880 Moderate. |
| | | E | eS | | 41 | 04 | |
| | | | M | | 43 | 29 | |
| | | N | M | | 43 | 38 | |
| | Shillong | Z | eP | 14 | 38 | 41 | 2590 Slight. |
| | | E | PPP | | 39 | 29 | |
| | | | iS | | 42 | 50 | |
| | | | LQ | | 43 | 23 | |
| | | | SS | | 43 | 35 | |
| | | | M | | 46 | 14 | |
| | Madras | E | eP | 14 | 38 | 55 | Slight. |
| | | | LQ | | 42 | 53 | |
| | | | LR | | 43 | 41 | |
| | | | M | | 45 | 25 | |
| | Tocklai | E | eP | 14 | 39 | 02 | Slight, distant. |
| | Bombay | NE | ee | 14 | 39 | 24 | Very slight and |
| | | | e | | 40 | 49 | near. |
| | | N | e | | 41 | 16 | |
| | | NE | e | | 41 | 27 | |
| | | N | M | | 45 | 36 | Period = 7 secs. |
| | | E | M | | 45 | 25 | Gr. dis. = 7 μ. |
| | | | | | | | Period = 10 secs. |
| | | | | | | | Gr. dis. = 8 μ. |

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| | | | | | | | km. |
| <u>July, 1960.</u> | | | | | | | |
| 29 (Contd.) | Kodaikanal | E | eS M | 14 | 43 | 12 | Slight. Period = 12 secs. Gr. dis. = 6.7 μ . |
| 29 | Port Blair | E | e | 14 | 47 | 42 | Slight. |
| | Colombo | E | e | 14 | 49 | 35 | |
| 29 | Shillong | Z | eP iS | 15 | 36 | 40 | 190 Slight. |
| | | | | | 37 | 03 | |
| 29 | Shillong | Z | iP iS | 15 | 43 | 51 | 190 Slight, compression. |
| | | | | | 44 | 14 | |
| 29 | Shillong | Z | iP iS | 16 | 03 | 27 | 230 Slight, compression. |
| | | | | | 03 | 54 | |
| 29 | Epc:- 28.0°N, 54.6°E, Southern Iran. - H = 16h. 45m. 49.3s. (USCGS). -h = about 159 kms. | | | | | | |
| | Shillong | Z | eP | 16 | 52 | 17 | Slight, distant. |
| 29 | Dehra Dun | NE | e | 13 | 58 | 56 | Tremor. |
| 29 | Epc:- 40.1°N, 142.3°E, Honshu Japan. - H = 17h. 31m. 39.5s. -h = about 50 kms. Mag : 6 $\frac{3}{4}$ (Pas), 6 $\frac{3}{4}$ -7 (Perk). (USCGS). Epc:- 39.5°N, 141°E, Honshu Japan. - H = 17h. 31m. 40s. (Shillong). | | | | | | |
| | Toeklai | E | iP | 17 | 39 | 29 | Distant, initial ground motion towards East. |
| | Shillong | Z | iP | 17 | 39 | 46 | 4790 Initial ground movement towards West. |
| | | E | iP | | 39 | 48 | Compression. |
| | | | PP | | 41 | 32 | |
| | | | iS | | 46 | 13 | |
| | | | eS | | 49 | 16 | |
| | | | SS | | 50 | 15 | |
| | Chatra | ZNE | iP | 17 | 40 | 11 | 5120 |
| | | Z | i | | 40 | 13 | |
| | | NE | S | | 46 | 57 | |
| | Port Blair | E | iP | 17 | 40 | 47 | 5680 |
| | | | PP | | 42 | 52 | |
| | | | iS | | 48 | 05 | |
| | | | LR | | 54 | 15 | |
| | | | M | | 57 | 22 | |
| | Dehra Dun | NE | eP | 17 | 40 | 54 | 5610 |
| | | N | PP | | 42 | 51 | |
| | | | PPP | | 43 | 46 | |
| | | | iS | | 48 | 08 | |
| | | | SS | | 51 | 48 | |
| | | | SSS, LQ | | 52 | 56 | |
| | | | LR | | 55 | 25 | |
| | | | M | | 59 | 43 | |

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| | | | | | | |
|----------------|-------------|----------|-------------------|--|------|---|
| 29 (Contd.) | Agra | ZNE | iP | 17 41 04 | 5860 | Initial ground motion towards South and West Compression. |
| | | E | i | 41 09 | | |
| | | NE | i | 41 29 | | |
| | | ZE | i | 41 44 | | |
| | | E | PcP | 42 20 | | |
| | | ZN | i | 42 46 | | |
| | | ZNE | PP | 43 12 | | |
| | | NE | i | 43 40 | | |
| | | ZNE | i | 44 49 | | |
| | | NE | PcS, ScP | 45 42 | | |
| | | ZNE | iS | 48 31 | | |
| | | NE | PPS | 48 46 | | |
| | | N | i | 49 22 | | |
| | | | ScS | 50 43 | | |
| | | ZE | i | 52 48 | | |
| | | ZE | SSS, LQ | 54 06 | | |
| EZ | M | 18 00 08 | Period = 29 secs. | | | |
| | Vizianagram | N | eP | 17 41 08 | | Slight, distant. |
| | Sehore | NE | i | 17 41 14 | | |
| | Hyderabad | NE | iP | 17 41 37 | 6480 | Moderate, initial ground motion towards West and South. |
| | | E | PP | 44 02 | | |
| | | | PPP | 45 33 | | |
| | | | iS | 49 39 | | |
| | | | PS | 49 54 | | |
| | | | PPS | 50 20 | | |
| | | | SS | 53 38 | | |
| | | | SSS | 56 08 | | |
| | | | LQ | 58 32 | | |
| | | N | LR | 59 04 | | |
| | | E | LR | 59 23 | | |
| | N | M | 18 03 56 | Period = 22 secs. Gr. dis. = 30 μ . | | |
| | E | M | 04 53 | Period = 18 secs. Gr. dis. = 17 μ . | | |
| | Madras | E | iP | 17 41 48 | 6640 | Moderate, initial ground motion towards West. |
| | | | PP | 42 21 | | |
| | | | PPP | 44 04 | | |
| | | | iS | 49 59 | | |
| | | | PS | 50 16 | | |
| | | | PPS | 50 30 | | |
| | | | SS | 54 00 | | |
| | | | LQ | 57 08 | | |
| | | LR | 59 52 | | | |
| | | M | 18 03 29 | | | |
| | Poona | Z | iP | 17 41 57 | 6860 | Moderate. |
| | | N | PcS | 46 21 | | |
| | | | iS | 50 19 | | |
| | | | PS | 50 34 | | |
| | | | PPS | 50 51 | | |
| | | | SSS | 57 08 | | |
| | | LR | 18 00 55 | | | |

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| 29 (Contd.) | Bombay | NE | eP | 17 42 02 | 6860 | Moderate. Period = 15 secs. Gr. dis. = 18 μ . Period = 15 secs. Gr. dis. = 15 μ . |
| | | | PcP | 42 24 | | |
| | | | e | 43 03 | | |
| | | N | PP | 43 56 | | |
| | | | E | eS | 50 24 | |
| | | | | iS | | |
| | | NE | PFS | 51 03 | | |
| | | N | ScS | 51 29 | | |
| | | NE | SS | 54 21 | | |
| | | N | e | 55 12 | | |
| | | E | M | 18 10 51 | | |
| | | N | M | 10 58 | | |
| | Kodaikanal | E | iP | 17 42 13 | 7030 | Slight, initial ground motion towards West. Period = 10 secs. Gr. dis. = 23.8 μ . |
| | | | iS | 50 45 | | |
| | | | PS | 50 58 | | |
| | | | PPS | 51 06 | | |
| | | | SKS | 52 01 | | |
| | | | SS | 54 55 | | |
| | | | SSS | 57 34 | | |
| | | | LQ | 58 27 | | |
| | | | LR | 18 01 12 | | |
| | | | M | 06 42 | | |
| | Colombo | E | P | 17 42 15 | 7090 | Amp. = 1.5 mm. |
| | | | S | 50 50 | | |
| | | | L | 18 04 50 | | |
| | | | M | 11 30 | | |
| 29 | Tocklai | E | eP | 19 41 17 | | Slight, distant. |
| | Shillong | Z | iP | 19 41 24 | | Slight, distant compression. |
| | Chatra | Z | iP | 19 42 27 | | Feeble, compression. |
| 29 | Chatra | Z | P | 20 09 37 | | Mild, near. |
| 29 | Shillong | Z | iP | 21 15 39 | | Slight, near. |
| | | | i | 16 06 | | Compression. |
| 29 | Chatra | Z | P | 21 17 38 | | Mild, near. |
| 29 | Shillong | Z | eP | 21 23 43 | 150 | Slight. |
| | | | iS | 24 02 | | |
| 29 | Shillong | Z | eP | 21 50 17 | 180 | Slight. |
| | | | iS | 50 39 | | |
| 29 | Shillong | Z | eP | 23 59 59 | 190 | Slight. |
| | | | eS | 00 00 22 | | |
| 30 | Chatra | Z | iP | 05 04 53 | | Feeble, near. |

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| 30 | Shillong | Z | eP eS | 05 43 54 44 34 | 370 | Slight. |
| 30 | Shillong | Z | ePg eSg | 06 13 47 13 53 | 60 | Slight. |
| 30 | Dehra Dun | NE | e | 09 57 13 | | Tremor. |
| 30 | Shillong | Z | eP | 09 58 25 | | Slight, distant. |
| 30 | Dehra Dun | NE | e e | 12 35 39 43 04 | | Feeble. |
| 30 | Shillong | Z | eP | 14 16 31 | | Slight, near. |
| 30 | Epc: 56.3°N, 163.9°E, Near Coast of Kamchatka. -H= 14h. 12m. 35s. (USCGS). -h= about 21 kms. | | | | | |
| | Shillong | Z | iP | 14 22 37 | | Slight, distant compression. |
| | Chatra | Z | eP | 14 22 50 | | Feeble, distant. |
| | Dehra Dun | NE | e | 14 42 45 | | Feeble. |
| 30 | Shillong | Z | iP | 14 49 41 | | Slight, distant compression. |
| 30 | Shillong | Z | i | 19 25 43 | | Slight, near. |
| 30 | Shillong | Z | i | 20 27 01 | | Slight, near. |
| 30 | Shillong | Z | iP | 21 24 43 | | Slight, distant compression. |
| 30 | Shillong | Z | iP | 22 33 03 | | Slight, distant rarefaction. |
| 31 | Epc: 5.6°S, 150.°E, New Britain. -H= 02h. 55m. 46.2s. (USCGS). -h= about 25 kms. Mag: 6 $\frac{1}{4}$ (Pas), 6-6 $\frac{1}{4}$ (Berk). | | | | | |
| | Shillong | Z E | iP PP iS | 03 06 23 08 49 15 03 | 7190 | Rarefaction. |
| | Chatra | Z NE | eP S | 03 06 52 15 57 | 7670 | Rarefaction. |
| | Colombo | E | P S L M | 03 07 07 16 36 30 31 35 06 | 8150 | Amp= 1.4 mm. |

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| <u>July, 1960</u> | | | | | | |
| 31 (Contd.) | Hyderabad | E | eP | 03 07 27 | 8220 | |
| | | | PP | 10 21 | | |
| | | N | eS | 16 59 | | |
| | | E | SKS | 17 15 | | |
| | | | PS | 17 39 | | |
| | | | LQ | 26 43 | | |
| | | N | LR | 30 22 | | |
| | | E | LR | 30 27 | | |
| | | | M | 35 18 | | Period = 21 secs. Gr. dis. = 20 μ. |
| | | | N | M | 37 43 | |
| Agra | ZNE | iP | 03 07 37 | 8470 | | |
| | ZE | i | 08 13 | | | |
| | | PP | 10 34 | | | |
| | Z | PPP | 12 39 | | | |
| | ZE | i | 12 25 | | | |
| | ZNE | iS | 17 21 | | | |
| | E | SKS | 17 41 | | | |
| | | ScS | 17 51 | | | |
| | NE | PPS | 18 13 | | | |
| | E | i | 18 45 | | | |
| | | i | 20 13 | | | |
| | | SS | 22 21 | | | |
| | N | SSS | 25 43 | | | |
| | LQ | 28 45 | | | | |
| | ZNE | M | - | | Period = 30 secs. Gr. dis. = 13.5 mm. | |
| Dehra Dun | NE | eP | 03 07 47 | 8550 | | |
| | N | PP | 10 37 | | | |
| | | PPP | 12 25 | | | |
| | | iS | 17 37 | | | |
| | | SKS | 17 51 | | | |
| | | ScS | 17 57 | | | |
| | | PS | 18 09 | | | |
| | | PPS | 18 26 | | | |
| | | SS | 22 30 | | | |
| | | M | 38 04 | | | |
| Bombay | NE | eP | 03 07 58 | 8800 | | |
| | | eS | 17 58 | | | |
| | | ScS | 18 17 | | | |
| | N | PS | 18 43 | | | |
| | | LQ | 29 14 | | | |
| | | M | 38 46 | | Period = 23 secs. Gr. dis. = 8 μ. | |
| | E | M | 47 23 | | Period = 19 secs. Gr. dis. = 7 μ. | |
| 31 | Shillong | Z | e | 03 34 49 | | Slight, distant. |
| 31 | Epc:- 6.0°S, 150.0°E; New Britain Island, Felt. | | | | | |
| | - H = 07h. 04m. 37.1s. (USCGS). | | | | | |
| | - h = about 93 kms. Mag : 6 (Pas). | | | | | |

-37-

| DATE | STATION | COMPT. | PHASE | G. M. T. | | | Δ | REMARKS |
|--------------------|--|--------|----------|----------|----|----|----------|-----------------------------------|
| | | | | h. | m. | s. | km. | |
| <u>July, 1960.</u> | | | | | | | | |
| 31 (Contd.) | Shillong | Z | eP | 07 | 15 | 10 | | Distant. |
| 31 | Shillong | Z | eP eS | 08 | 30 | 33 | 290 | Slight. |
| | | | | | | 31 | 06 | |
| 31 | Chatra | Z | iP | 09 | 04 | 32 | | Mild, near rarefaction. |
| 31 | Epc:- 6.5° S, 129.6° E, Banda Sea. - H = 09h. 17m. 57.4s. (USCGS). - h = about 83 kms. | | | | | | | |
| | Shillong | Z | iP | 09 | 26 | 38 | | Slight, distant compression. |
| | Chatra | Z | iP | 09 | 27 | 11 | | Feeble, distant rarefaction. |
| 31 | Epc:- 43.6° S, 74.3° W, Near Coast of Central Chile. - H = 14h. 55m. 03.3s. (USCGS). - h = about 97 kms. | | | | | | | |
| | Agra | Z | iPKP | 15 | 14 | 47 | | Slight, distant rarefaction. |
| | Chatra | Z | ePKP | 15 | 14 | 52 | | Very mild. |
| | Shillong | Z | iPKP | 15 | 14 | 53 | | Slight, distant rarefaction. |
| 31 | Dehra Dun | NE | e e | 16 | 29 | 37 | | Feeble. |
| | | | | | | 31 | 16 | |
| | Chatra | Z | eP | 16 | 31 | 26 | | Feeble. |
| | Shillong | Z | iP | 16 | 32 | 12 | | Slight, distant rarefaction. |
| 31 | Epc:- 2.8° S, 148.2° E, Bismarck Sea. - H = 18h. 46m. 13.9s. (USCGS). - h = about 13 kms. | | | | | | | |
| | Chatra | Z | iP | 18 | 57 | 05 | | Very feeble, distant compression. |
| 31 | Shillong | Z | iP | 19 | 47 | 33 | | Slight, distant rarefaction. |
| 31 | Shillong | Z | iP | 19 | 56 | 34 | | Slight, distant compression. |
| 31 | Epc:- 27.9° N, 54.6° E, Southern Iran - H = 22h. 27m. 01s. (USCGS). - h = about 127 kms. | | | | | | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. | | | REMARKS |
|--------------------|-----------|--------|-------|----------|----|----|--|
| | | | | h. | m. | s. | |
| ----- | | | | | | | |
| <u>July, 1960.</u> | | | | | | | |
| 31 (Contd.) | Dehra Dun | NE | e | 22 | 31 | 39 | Slight. |
| | | | i | | 35 | 36 | |
| | | | i | | 35 | 57 | |
| | | | i | | 36 | 40 | |
| | Agra | E | iP | 22 | 31 | 42 | 2400 Slight, initial ground motion towards West. |
| | | ZNE | iS | | 35 | 23 | |
| | Chatra | Z | iP | 22 | 32 | 57 | Feeble, distant. |
| | | | i | | 37 | 19 | |
| | Shillong | Z | eP | 22 | 33 | 33 | Slight, distant. |
| 31 | Shillong | Z | eP | 22 | 51 | 35 | Slight, near. |

The following is the list of earthquakes that are reported by the voluntary observers from the different stations during the month of July, 1960.

| Place | Date in G. M. T. | Time in G. M. T. | No. of shocks. | Duration of shock | Intensity in R.F. Scale. | Remarks |
|------------------|------------------|------------------|----------------|-------------------|--------------------------|---------|
| Shillong | 25.7.60 | 21 50 | One. | 1 sec. | II. | |
| Shillong | 29.7.60 | 09 05 | One | About 3 secs. | IV | |
| Shillong | 29.7.60 | 10 45 | One | About 6 secs. | IV-V | |
| Rupsi | 29.7.60 | 10 44 | One | About 30 secs. | V | |
| Cooch- Behar. | 29.7.60 | 10 44 | One | About 45 secs. | V | |
| Bagdogra | 29.7.60 | 10 44 | Three | About 6 secs. | V | |
| Goalpara | 29.7.60 | 10 45 | Three | About 1 min. | VI | |
| Gauhati | 29.7.60 | 10 43 | Three | About 50 secs. | V | |

: : : : : : : : : : :

MICROSEISMIC TABULATION

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|---------------------------|------|-----|------------------------|----------------------|----------------------------|-------|-----|------------------------|----------------------|
| <u>Station : Shillong</u> | | | | | <u>Component E-W</u> | | | | |
| | | | | | <u>MONTH : July, 1960.</u> | | | | |
| 01 | 00 | 1 | 0.6 | 5.3 | 08 | 00 | 3 | 0.2 | 4.0 |
| | 03 | 1 | 0.6 | 5.1 | | 06 | 3 | 0.3 | 4.3 |
| | 06 | 1 | 0.6 | 5.3 | | 12 | 3 | 0.3 | 4.1 |
| | 09 | 1 | 0.6 | 5.0 | | 18 | 3 | 0.2 | 3.9 |
| | 12 | 1 | 0.7 | 5.5 | 09 | 00 | 3 | 0.2 | 4.0 |
| | 15 | 1 | 0.7 | 5.4 | | 06 | ... | - | - |
| | 18 | 1 | 0.8 | 5.2 | | 12 | 3 | 0.2 | 4.2 |
| | 21 | 1 | 0.7 | 5.0 | | 18 | 3 | 0.2 | 4.0 |
| 02 | 00 | 1 | 0.7 | 5.1 | 10 | 00 | ... | - | - |
| | 03 | 1 | 0.7 | 5.5 | | 06 | 3 | 0.2 | 3.8 |
| | 06 | 1 | 0.7 | 5.4 | | 12 | ... | - | - |
| | 09 | 1 | 0.9 | 5.6 | | 18 | ... | - | - |
| | 12 | 1 | 0.8 | 5.3 | 11 | 00 to | ... | - | - |
| | 15 | 1 | 0.8 | 5.5 | | 18 | ... | - | - |
| | 18 | 1 | 0.9 | 5.6 | 12 | 00 | ... | - | - |
| | 21 | 1 | 0.8 | 5.4 | | 06 | 3 | 0.2 | 3.7 |
| 03 | 00 | 1 | 0.8 | 5.3 | | 12 | 3 | 0.2 | 3.6 |
| | 03 | 1 | 0.9 | 5.3 | 13 | 00 | ... | - | - |
| | 06 | 1 | 0.8 | 5.2 | | 06 | ... | - | - |
| | 09 | 1 | 0.9 | 5.5 | | 12 | 3 | 0.2 | 3.7 |
| | 12 | 1 | 0.9 | 5.4 | | 18 | 3 | 0.2 | 3.6 |
| | 15 | 1 | 0.8 | 5.2 | 14 | 00 | 3 | 0.2 | 3.7 |
| | 18 | 1 | 0.8 | 5.0 | | 06 | ... | - | - |
| | 21 | ... | - | - | | 12 | 3 | 0.2 | 3.5 |
| 04 | 00 | 1 | 0.6 | 5.0 | | 18 | 0,0 | - | - |
| | 03 | 1 | 0.7 | 5.2 | 15 | 00 | 3 | 0.2 | 3.6 |
| | 06 | ... | - | - | | 06 | 3 | 0.2 | 3.5 |
| | 09 | 1 | 0.7 | 5.0 | | 12 | 3 | 0.2 | 3.5 |
| | 12 | 1 | 0.7 | 5.1 | | 18 | 3 | 0.2 | 3.6 |
| | 15 | 1 | 0.7 | 5.0 | 16 | 00 | 3 | 0.2 | 3.7 |
| | 18 | 1 | 0.6 | 5.0 | | 06 | 3 | 0.2 | 3.5 |
| | 21 | 1 | 0.6 | 5.1 | | 12 | 3 | 0.2 | 4.0 |
| 05 | 00 | 1 | 0.6 | 5.3 | | 18 | 3 | 0.3 | 4.2 |
| | 03 | 1 | 0.5 | 5.0 | 17 | 00 | 3 | 0.2 | 3.7 |
| | 06 | 1 | 0.5 | 5.2 | | 06 | ... | - | - |
| | 09 | 1 | 0.5 | 5.3 | | 12 | 1 | 0.3 | 4.3 |
| | 12 | 1 | 0.5 | 5.2 | | 18 | 1 | 0.3 | 4.2 |
| | 15 | 1 | 0.4 | 5.0 | 18 | 00 | 1 | 0.3 | 4.0 |
| | 18 | 1 | 0.3 | 4.7 | | 06 | 0,0 | - | - |
| 06 | 00 | 1 | 0.3 | 4.5 | | 12 | 1 | 0.2 | 3.6 |
| | 06 | ... | - | - | | 18 | 1 | 0.2 | 3.5 |
| | 12 | 3 | 0.3 | 4.6 | | | | | |
| | 18 | 3 | 0.2 | 4.0 | | | | | |
| 07 | 00 | 3 | 0.2 | 4.2 | | | | | |
| | 06 | 3 | 0.2 | 4.1 | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | 3 | 0.2 | 4.0 | | | | | |

-II-

MONTH :- July 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|

 STATION : Shillong
 (contd..)

(contd..)

Component: E-W.

| | | | | |
|----|-------|-----|-----|-----|
| 19 | 00 | 1 | 0.3 | 4.1 |
| | 06 | 3 | 0.2 | 3.6 |
| | 12 | ... | - | - |
| | 18 | ... | - | - |
| 20 | 00 | ... | - | - |
| | 06 | ... | - | - |
| | 12 | 3 | 0.2 | 3.5 |
| | 18 | ... | - | - |
| 21 | 00 | ... | - | - |
| | 06 | 3 | 0.4 | 5.0 |
| | 12 | 3 | 0.4 | 4.8 |
| | 18 | ... | - | - |
| 22 | 00 | ... | - | - |
| | 06 | ... | - | - |
| | 12 | 1 | 0.4 | 5.2 |
| | 18 | 1 | 0.3 | 5.0 |
| 23 | 00 | 1 | 0.3 | 4.7 |
| | 06 | 3 | 0.4 | 5.2 |
| | 12 | 1 | 0.3 | 4.6 |
| | 18 | 1 | 0.4 | 5.0 |
| 24 | 00 | 1 | 0.4 | 5.3 |
| | 06 | 1 | 0.3 | 4.2 |
| | 12 | 1 | 0.3 | 4.3 |
| | 18 | 1 | 0.3 | 4.0 |
| 25 | 00 | 1 | 0.3 | 4.0 |
| | 06 | 1 | 0.4 | 4.2 |
| | 12 | ... | - | - |
| | 18 | 1 | 0.4 | 4.4 |
| 26 | 00 | 1 | 0.3 | 4.0 |
| | 06 | 3 | 0.4 | 4.4 |
| | 12 | 3 | 0.4 | 4.3 |
| | 18 | 3 | 0.5 | 5.0 |
| 27 | 00 | 3 | 0.4 | 4.5 |
| | 06 | 1 | 0.4 | 4.7 |
| | 12 | 1 | 0.4 | 4.5 |
| | 18 | 1 | 0.4 | 4.6 |
| 28 | 00 | 1 | 0.4 | 4.5 |
| | 06 | 1 | 0.4 | 4.7 |
| | 12 | ... | - | - |
| | 18 | ... | - | - |
| 29 | 00 to | | | |
| | 18 | ... | - | - |
| 30 | 00 | ... | - | - |
| | 06 | 1 | 0.4 | 5.0 |
| | 12 | 1 | 0.4 | 4.8 |
| | 18 | 1 | 0.4 | 4.7 |

STATION : Madras

| | | | | |
|----|----|---|-----|-----|
| 01 | 00 | 1 | 2.2 | 5.4 |
| | 03 | 1 | 2.1 | 5.0 |
| | 06 | 1 | 2.3 | 5.2 |
| | 09 | 1 | 2.2 | 5.2 |
| | 12 | 1 | 2.2 | 5.4 |
| | 18 | 1 | 2.5 | 5.3 |
| | 21 | 1 | 2.3 | 5.1 |
| 02 | 00 | 1 | 2.1 | 5.2 |
| | 03 | 1 | 2.5 | 5.0 |
| | 06 | 1 | 2.4 | 5.2 |
| | 09 | 1 | 2.3 | 5.2 |
| | 12 | 1 | 2.4 | 5.1 |
| | 15 | 1 | 2.3 | 5.2 |
| | 18 | 1 | 2.1 | 5.3 |
| 03 | 00 | 1 | 2.0 | 5.0 |
| | 03 | 1 | 2.7 | 5.5 |
| | 06 | 1 | 2.5 | 5.2 |
| | 09 | 1 | 2.8 | 5.7 |
| | 12 | 1 | 3.2 | 5.5 |
| | 15 | 1 | 2.9 | 5.7 |
| | 18 | 1 | 3.1 | 5.7 |
| | 21 | 1 | 3.0 | 5.5 |
| 04 | 00 | 1 | 3.0 | 5.5 |
| | 03 | 1 | 3.1 | 5.6 |
| | 06 | 1 | 2.8 | 5.6 |
| | 09 | 1 | 2.5 | 5.6 |
| | 12 | 1 | 2.4 | 5.5 |
| | 15 | 1 | 2.8 | 5.9 |
| | 18 | 1 | 2.5 | 5.8 |
| 05 | 00 | 1 | 2.4 | 5.5 |
| | 03 | 1 | 2.2 | 5.5 |
| | 06 | 1 | 2.2 | 5.8 |
| | 12 | 1 | 2.0 | 5.6 |
| | 18 | 1 | 1.6 | 5.6 |
| 06 | 00 | 1 | 1.4 | 5.3 |
| | 03 | 1 | 1.3 | 5.2 |
| | 06 | 1 | 1.2 | 5.4 |
| | 12 | 1 | 1.1 | 5.2 |
| | 18 | 3 | 1.0 | 5.1 |

- III -

MONTH: July, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|----------------------------|------|---|------------------------|----------------------|-----------|------|---|------------------------|----------------------|
| STATION : Madras (contd..) | | | | | (contd..) | | | | |
| Component: E-W. | | | | | | | | | |
| 07 | 00 | 3 | 1.2 | 2.1 | 15 | 00 | 3 | 0.6 | 4.6 |
| | 03 | 3 | 0.4 | 2.6 | | 03 | 3 | 0.7 | 4.5 |
| | 06 | 3 | 0.4 | 2.6 | | 06 | 1 | 0.7 | 4.6 |
| | 12 | 3 | 0.7 | 4.3 | | 12 | 1 | 0.7 | 4.7 |
| | 18 | 3 | 0.4 | 2.7 | | 18 | 1 | 0.8 | 4.8 |
| | | 3 | 0.8 | 4.7 | | | | | |
| 08 | 00 | 3 | 0.3 | 2.4 | 16 | 00 | 1 | 0.8 | 4.7 |
| | | 3 | 0.7 | 4.6 | | 03 | 1 | 0.8 | 4.6 |
| | 03 | 3 | 0.3 | 2.5 | | 06 | 1 | 0.8 | 5.0 |
| | | 3 | 0.8 | 4.7 | | 12 | 3 | 0.7 | 4.7 |
| | 06 | 3 | 0.8 | 4.8 | | 18 | 1 | 0.8 | 4.7 |
| | 12 | 3 | 0.7 | 4.6 | 17 | 00 | 3 | 0.7 | 4.5 |
| | 18 | 3 | 0.8 | 4.8 | | 03 | 3 | 0.9 | 4.9 |
| 09 | 00 | 3 | 0.8 | 4.7 | | 06 | 3 | 0.8 | 4.7 |
| | | 3 | 0.1 | 1.3 | | 12 | 3 | 0.8 | 4.7 |
| | 03 | 3 | 0.8 | 4.8 | | 18 | 3 | 0.7 | 4.5 |
| | | 3 | 0.2 | 2.0 | 18 | 00 | 3 | 0.6 | 4.3 |
| | 06 | 3 | 0.8 | 4.8 | | 03 | 3 | 0.7 | 4.8 |
| | | 3 | 0.3 | 1.9 | | 06 | 3 | 0.7 | 4.5 |
| | 12 | 3 | 0.9 | 4.8 | | 12 | 3 | 0.7 | 4.5 |
| | | 3 | 0.3 | 2.3 | | 18 | 3 | 0.7 | 4.3 |
| | 18 | 3 | 0.9 | 5.1 | | | 3 | 0.2 | 1.9 |
| 10 | 00 | 3 | 0.8 | 4.9 | 19 | 00 | 3 | 0.7 | 4.3 |
| | 03 | 3 | 0.8 | 5.1 | | | 3 | 0.3 | 2.8 |
| | 06 | 3 | 0.8 | 5.0 | | | 3 | 0.2 | 1.9 |
| | 12 | 3 | 0.8 | 4.9 | | 03 | 3 | 0.5 | 4.0 |
| | 18 | 3 | 0.8 | 5.1 | | | 3 | 0.2 | 1.7 |
| 11 | 00 | 3 | 0.7 | 5.0 | | 06 | 3 | 0.2 | 1.7 |
| | 03 | 3 | 0.7 | 4.9 | | 12 | 3 | 0.2 | 1.6 |
| | 06 | 3 | 0.6 | 4.8 | | | 3 | 0.7 | 4.0 |
| | 12 | 3 | 0.7 | 5.1 | | 18 | 3 | 0.3 | 2.0 |
| | 18 | 3 | 0.6 | 4.9 | | | 3 | 0.7 | 4.2 |
| 12 | 00 | 3 | 0.5 | 4.5 | 20 | 00 | 3 | 0.4 | 2.4 |
| | 03 | 3 | 0.7 | 4.8 | | | 3 | 0.8 | 4.3 |
| | 06 | 3 | 0.6 | 4.7 | | 03 | 3 | 0.5 | 2.7 |
| | 12 | 3 | 0.6 | 4.9 | | | 3 | 0.7 | 3.9 |
| | 18 | 3 | 0.7 | 5.1 | | 06 | 3 | 0.7 | 3.2 |
| 13 | 00 | 3 | 0.5 | 4.7 | | | 3 | 0.9 | 4.1 |
| | 03 | 3 | 0.5 | 4.9 | | 12 | 1 | 0.9 | 4.3 |
| | 06 | 3 | 0.5 | 4.6 | | 18 | 1 | 1.1 | 4.6 |
| | 12 | 3 | 0.6 | 4.8 | 21 | 00 | 1 | 1.3 | 4.6 |
| | | 3 | 0.3 | 2.9 | | 03 | 1 | 1.3 | 4.8 |
| | 18 | 3 | 0.4 | 4.2 | | 06 | 1 | 1.4 | 4.8 |
| 14 | 00 | 3 | 0.4 | 4.2 | | 12 | 1 | 1.7 | 4.6 |
| | 03 | 3 | 0.4 | 4.0 | | 18 | 1 | 1.6 | 4.9 |
| | 06 | 3 | 0.4 | 4.1 | | | | | |
| | 12 | 3 | 0.7 | 4.3 | | | | | |
| | 18 | 3 | 0.6 | 4.6 | | | | | |

MONTH : July, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|

STATION : Madras (contd..)

(contd.)

Component: E-W.

| | | | | |
|----|----|-----|-----|-----|
| 22 | 00 | 1 | 1.4 | 4.8 |
| | 03 | 1 | 1.5 | 4.8 |
| | 06 | 1 | 1.5 | 4.7 |
| | 12 | 1 | 1.5 | 4.8 |
| | 18 | 1 | 1.5 | 5.0 |
| | 21 | 1 | 1.4 | 4.7 |
| | | 1 | 1.3 | 2.5 |
| 23 | 00 | 1 | 1.5 | 4.7 |
| | 03 | 1 | 1.5 | 4.8 |
| | 06 | 1 | 1.5 | 4.9 |
| | 12 | 1 | 1.6 | 5.1 |
| | 18 | 1 | 1.7 | 4.9 |
| 24 | 00 | 3 | 1.4 | 4.8 |
| | 03 | 1 | 1.6 | 5.0 |
| | 06 | 1 | 1.6 | 5.0 |
| | 12 | 1 | 1.6 | 5.0 |
| | | 3 | 0.3 | 1.3 |
| | 18 | 1 | 1.5 | 5.2 |
| | | 3 | 0.3 | 1.5 |
| 25 | 00 | 1 | 1.5 | 5.0 |
| | | 3 | 0.5 | 2.6 |
| | 03 | 1 | 1.4 | 5.0 |
| | 06 | 1 | 1.4 | 5.0 |
| | 12 | ... | - | - |
| | 18 | 1 | 1.9 | 5.1 |
| 26 | 00 | 1 | 1.8 | 5.0 |
| | 03 | 1 | 2.0 | 5.0 |
| | 06 | 1 | 1.9 | 5.1 |
| | 12 | 1 | 1.9 | 5.0 |
| | 18 | 1 | 2.0 | 5.1 |
| | | 1 | 0.9 | 2.7 |
| 27 | 00 | 1 | 1.9 | 4.9 |
| | | 1 | 1.1 | 2.6 |
| | 03 | 1 | 1.8 | 5.0 |
| | | 1 | 1.2 | 2.9 |
| | 06 | 3 | 1.6 | 4.9 |
| | 12 | 1 | 1.8 | 4.8 |
| | 18 | 1 | 1.9 | 4.8 |
| 28 | 00 | 1 | 1.8 | 4.6 |
| | 03 | 1 | 1.9 | 4.8 |
| | 06 | 1 | 2.1 | 4.7 |
| | 12 | 1 | 2.0 | 4.6 |
| | 18 | 1 | 1.9 | 4.7 |

STATION : Bokaro

| | | | | |
|----|----|-----|-----|-----|
| 01 | 00 | 2 | 1.2 | 5.0 |
| | 06 | 0,0 | - | - |
| | 12 | 3 | 1.0 | 4.0 |
| | 18 | 3 | 1.2 | 4.4 |
| 02 | 00 | 2 | 1.4 | 5.0 |
| | 06 | 2 | 1.2 | 5.0 |
| | 12 | 2 | 1.8 | 5.2 |
| | 18 | 2 | 1.2 | 5.0 |
| 03 | 00 | 2 | 1.4 | 5.2 |
| | 06 | 2 | 1.5 | 5.0 |
| | 12 | 2 | 1.8 | 5.0 |
| | 18 | 2 | 1.4 | 5.0 |
| 04 | 00 | 2 | 1.4 | 5.0 |
| | 06 | ... | - | - |
| | 12 | 2 | 1.8 | 6.2 |
| | 18 | 2 | 1.5 | 5.2 |
| 05 | 00 | 3 | 1.5 | 6.0 |
| | 06 | 3 | 1.5 | 5.0 |
| | 12 | 2 | 1.2 | 6.0 |
| | 18 | 3 | 0.8 | 5.5 |

- V -

MONTH : July, 1960.

| Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour GMT | K | Mean amplitude in microns | Mean period in secs. |
|----------------------------------|----------|-----|------------------------|----------------------|------------------------------|----------|-----|---------------------------|----------------------|
| | | | | | (contd..) | | | | |
| <u>STATION : Bokaro (contd.)</u> | | | | | Component: E-W. | | | | |
| 06 | 00 | 0,0 | - | - | 25 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | 3 | 0.7 | 4.7 |
| | 12 | 3 | 0.5 | 5.0 | | 12 | ... | - | - |
| | 18 | 3 | 0.5 | 5.0 | | 18 | 3 | 0.8 | 5.0 |
| 07 | 00 to 18 | 0,0 | - | - | 26 | 00 | 3 | 0.9 | 5.0 |
| | | | | | | 06 | 3 | 0.9 | 5.0 |
| | | | | | | 12 | ... | - | - |
| | | | | | | 18 | 3 | 0.7 | 5.0 |
| 08 | 00 | 0,0 | - | - | 27 | 00 | 2 | 1.0 | 5.0 |
| | 06 | 0,0 | - | - | <u>STATION : Port Blair.</u> | | | | |
| | 12 | 3 | 0.4 | 4.5 | 01 | 00 | 2 | 0.8 | 3.9 |
| | 18 | 3 | 0.5 | 4.5 | | 06 | 2 | 0.8 | 3.8 |
| 09 to 10 | 00 to 18 | 0,0 | - | - | | 12 | 2 | 0.8 | 3.9 |
| | | | | | | 18 | 2 | 0.8 | 3.9 |
| 15 | 00 | 0,0 | - | - | 02 | 00 | 2 | 0.8 | 3.9 |
| | 06 | 0,0 | - | - | | 06 | 2 | 0.8 | 3.9 |
| | 12 | 3 | 0.5 | 4.5 | | 12 | 3 | 0.4 | 3.9 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.4 | 3.9 |
| 16 | 00 | 3 | 0.4 | 4.5 | 03 | 00 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.5 | 4.5 | | | | 0.4 | 7.2 |
| | 12 | 3 | 0.5 | 4.6 | | 06 | 3 | 0.4 | 7.5 |
| | 18 | 0,0 | - | - | | 12 | 3 | 0.8 | 7.5 |
| 19 | 00 | 0,0 | - | - | | 18 | 3 | 0.8 | 7.3 |
| | 06 | ... | - | - | 04 | 00 | 3 | 0.4 | 7.2 |
| | 12 | ... | - | - | | 06 | ... | - | - |
| | 18 | 3 | 0.5 | 4.5 | | 12 | 3 | 0.4 | 7.3 |
| 20 | 00 to 18 | 0,0 | - | - | | 18 | 3 | 0.8 | 7.5 |
| 21 | 00 | 3 | 0.5 | 5.0 | 05 | 00 | 3 | 0.4 | 7.4 |
| | 06 | 2 | 0.7 | 5.0 | | 06 | 1 | 0.8 | 7.5 |
| | 12 | 3 | 0.6 | 4.7 | | 12 | 1 | 0.4 | 7.5 |
| | 18 | 3 | 0.6 | 4.5 | | 18 | 1 | 0.4 | 7.5 |
| 22 | 00 | 2 | 0.5 | 5.0 | 06 | 00 | 1 | 0.4 | 7.4 |
| | 06 | 3 | 0.6 | 5.0 | | 06 | 1 | 0.4 | 7.5 |
| | 12 | 2 | 0.8 | 5.0 | | 12 to 18 | 0,0 | - | - |
| | 18 | 3 | 0.7 | 5.0 | 07 | 00 to 18 | 0,0 | - | - |
| 23 | 00 | 2 | 0.8 | 5.5 | 08 | 00 | 1 | 0.4 | 7.5 |
| | 06 | 3 | 0.7 | 4.5 | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 3 | 0.8 | 5.0 | | 18 | 1 | 0.4 | 7.5 |
| 24 | 00 | 2 | 0.8 | 5.0 | 09 | 00 | 1 | 0.4 | 7.5 |
| | 06 | 3 | 0.8 | 5.0 | | 06 to 18 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 3 | 0.7 | 5.0 | | | | | |

MONTH : July, 1960

| Date | Hour | K | Mean amplitude in m.m. micron | Mean period in secs. | Date | Hour | K | Mean amplitude in micron | Mean period in secs. |
|------|------|---|-------------------------------------|-------------------------|------|------|---|--------------------------------|-------------------------|
|------|------|---|-------------------------------------|-------------------------|------|------|---|--------------------------------|-------------------------|

Component: E-W.

STATION : Port Blair.

| | | | | | | | | | |
|-------|-------|-----|-----|-----|----|----|-----|-----|-----|
| 10 | 00 | 0,0 | - | - | 27 | 00 | ... | - | - |
| | 06 to | 0.. | - | - | | 06 | 1 | 0.4 | 3.9 |
| | 18 | | | | | 12 | 1 | 0.8 | 3.9 |
| | | | | | | 18 | 1 | 1.2 | 3.9 |
| 11 to | | | | | 28 | 00 | 1 | 1.2 | 3.9 |
| 20 | 00 to | | | | | 06 | 1 | 1.2 | 3.9 |
| | 18 | 0.. | - | - | | 12 | 1 | 1.2 | 3.9 |
| | | | | | | 18 | 1 | 1.2 | 3.9 |
| 21 | 00 | 0,0 | - | - | 29 | 00 | 1 | 1.2 | 3.9 |
| | 06 | ... | - | - | | 06 | 1 | 0.8 | 4.0 |
| | 12 | ... | - | - | | 12 | 1 | 0.8 | 4.0 |
| | 18 | ... | - | - | | 18 | ... | - | - |
| 22 | 00 | ... | - | - | 30 | 00 | 1 | 0.8 | 3.9 |
| | 06 | 0,0 | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.4 | 3.8 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 3.8 |
| 23 | 00 | 0,0 | - | - | 31 | 00 | 3 | 0.4 | 3.9 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | ... | - | - |
| | 18 | ... | - | - | | 18 | 3 | 0.4 | 3.9 |
| 24 | 00 to | | | | | | | | |
| | 18 | ... | - | - | | | | | |
| 25 | 00 | ... | - | - | | | | | |
| | 06 | 1 | 0.8 | 3.9 | | | | | |
| | 12 | ... | - | - | | | | | |
| | 18 | 1 | 0.8 | 3.8 | | | | | |
| 26 | 00 to | | | | | | | | |
| | 18 | ... | - | - | | | | | |

E N D

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

AUG 1960



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a.s.l. (Metres) | Lithographic Foundation | Instrument | Compt. | Period in secs | Static Magni- fication | Damping ratio | Paper speed mm/min. | |
|----------------------|-----------|-----------|------------------------------|--|----------------------|---------------|----------------------|------------------------------|------------------|---------------------------|------|
| Agra | | | | | Columbia | E | To=15 | Tg=100 | | 15 | |
| | | | | | Long Period | N | To=15 | Tg=95 | | 15 | |
| | | | | | do | Z | To=15 | Tg=70 | | 15 | |
| Bombay | 18° 54' N | 72° 40' E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To=Tg= 7 secs | | | 30 | |
| Bokaro | 23° 50' N | 85° 48' E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 | |
| Calcutta | 22° 32' N | 88° 22' E | (1) | 7(Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | (2) 6(Omori-Ewing) | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | Omori-Ewing | N | 16 | 32 | | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| Chetpra | 25° 50' N | 87° 10' E | 151 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 15 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| | | | | | Benioff | Z | To=0 | Tg= 0.45 secs. | Critical | 50 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| Colombo | 06° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | | |
| Dehra Dun | 30° 19' N | 78° 02' E | 582 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| Hyderabad | 17° 25' N | 78° 27' E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| Kodaikanal | 10° 14' N | 77° 28' E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| Madras | 13° 00' N | 80° 11' E | 15 | | Sprengnether | E | To=Tg=72 secs | | Critical | 30 | |
| New Delhi | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | | |
| Poona | 18° 32' N | 73° 51' E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.6 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 | |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| Fort Blair | 11° 49' N | 92° 43' E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 65:1 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| Sehore | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | |
| Shillong | 25° 34' N | 91° 53' E | 1500 | Quartzite Sand stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h=0 | h=0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Benioff | Z | To=1.0 | Tg=0.18 | | 60 | |
| | | | | | Sprengnether | E | To= Tg= 6.3 | | Critical | 30 | |
| Wenner Accelerograph | ZNE | | | | | | | | | | |
| Tocklai | 28° 45' N | 94° 45' E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | |
| Vizianagram | 18° 07' N | 83° 27' E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

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01 Epc: 27° 9' N, 54° 2' E, Southern Iran,
-h = 110 Km.Ca.

-H = 02 h. 20 m. 52.4 s. (U.S.C.G.S.)

| | | | | | |
|----|-------------------|----|-------------|----------------------------|-----------------------------|
| | Poona | E | eP PPP | 02 25 22 4260 29 15 | Slight. |
| | | N | iS LQ | 29 15 29 26 | |
| | Bombay | NE | eP eS | 02 25 27 2045 28 50 | Slight |
| | Chatra | Z | eP | 02 26 47 | Slight, distant. |
| | Shillong | Z | eP | 02 27 24 | Slight, distant. |
| 01 | Felt at Shillong. | | | | |
| | Shillong | Z | Pg Sg | 12 28 33 90 28 43 | Slight. |
| | Chatra | Z | e i | 12 29 30 29 42 | Mild, near compression. |
| | Tocklai | E | eP i | 12 29 32 29 54 | Slight. |
| 01 | Shillong | Z | e | 12 48 25 | Tremor. |
| 01 | Shillong | Z | iP | 15 21 53 | Slight,distant compression. |
| 01 | Shillong | Z | Pg Sg | 18 12 18 110 12 41 | Slight. |
| 01 | Shillong | Z | e | 19 36 57 | Tremor. |
| 01 | Shillong | Z | iP | 21 37 17 | Slight,distant,rarefaction. |
| 01 | Shillong | Z | iP | 22 04 43 | Slight,distant rarefaction. |
| 02 | Shillong | Z | iP | 05 20 17 | Slight,distant compression. |
| 02 | Dehra Dun | NE | e i | 05 31 40 34 45 | Feeble. |
| 02 | Shillong | Z | iP | 06 26 02 | Slight,distant compression. |
| | Chatra | Z | iP | 06 26 14 | Very feeble,compression. |
| 02 | Chatra | Z | iPg Sg | 11 42 33 80 42 42 | Mild,compression. |
| 02 | Shillong | Z | iP | 21 01 42 | Slight,distant,compression. |
| 03 | Dehra Dun | NE | e e e | 07 05 41 06 24 07 19 | Feeble. |
| | Chatra | Z | eP e | 07 06 36 09 50 | Feeble. |

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| | | | | | |
|----|------------|----|------------------|-------------------------------------|-------------------------------|
| | Shillong | Z | eP | 07 07 25 | Slight, distant. |
| 03 | Shillong | Z | P i Sg | 17 49 31 240 49 40 50 06 | Slight. |
| 03 | Shillong | Z | e i i i | 19 10 48 10 50 10 59 11 04 | Slight, near. |
| 03 | Shillong | Z | iP Pg Sg | 20 06 15 160 06 17 06 37 | Slight, compression. |
| | Chatra | Z | ePn P Pg | 20 06 31 320 06 34 06 39 | Mild. |
| | | ZN | Sn | 07 07 | |
| 03 | Port Blair | E | eP i i | 21 49 34 50 49 51 14 | Slight. |
| | Shillong | Z | eP | 21 51 47 | Slight. |
| | Chatra | Z | eP | 21 52 30 | Feeble. |
| 03 | Dehra Dun | NE | e e | 23 01 08 02 34 | Feeble. |
| | Chatra | Z | eP | 23 01 50 | Feeble. |
| | Shillong | Z | iP | 23 02 35 | Slight, distant compression. |
| 03 | Chatra | Z | i | 23 04 46 | Feeble. |
| 03 | Chatra | Z | eP | 23 21 40 | Feeble. |
| | Shillong | Z | iP | 23 21 46 | Slight, distant, rarefaction. |
| 03 | Shillong | Z | eP | 23 34 19 | Tremor. |

Epc: 51°4 N, 179°1 E. Rat Islands in the Aleutians.

-h = 83 Km. -H = 07h. 34m. 53.8 s. (U.S.C.G.S).

-H = 07 h. 34 m. 53.8 s. (U.S.C.G.S).

Magnitude : 6-6 $\frac{1}{4}$ (Pasadena).

| | | | | | |
|--|----------|---------|---|---|-----------------------------------|
| | Tocklai | E | eP | 07 45 42 | Distant. |
| | Shillong | ZE E | iP PcP PP PPP PcS eS PS PFS SKS SS SSS LQ LR M | 07 45 54 7500 46 15 48 25 49 52 50 22 54 50 55 06 55 21 55 37 58 27 08 02 01 03 25 06 51 11 46 | Compression, first movement West. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | ∠ Km. | Remarks. |
|--------------------|------------|-------------------------------|---|--|----------|---------------------------------------|
| <u>August 1960</u> | | | | | | |
| 04 | Calcutta | E | iP e i i | 07 45 55 47 32 52 57 55 25 | | Slight. |
| | Chatra | ZNE NE | iP iS | 07 46 06 55 17 | 7810 | Initial ground movement |
| | Bokaro | NE E NE E | iP P PPP iS LQ LR M | 07 46 24 49 08 50 55 55 47 08 05 48 09 18 18 21 | 8030 | Initial ground motion South and West. |
| | Dehra Dun | NE N | eP PP PPP iS SS SSS LQ LR M | 07 46 26 49 09 50 54 55 50 59 53 08 03 10 05 18 08 18 14 01 | 8060 | |
| | Port Blair | N | i | 07 46 50 | | |
| | Poona | E N | iP PP iS PPS | 07 47 26 50 34 57 51 59 13 | 9380 | |
| | Bombay | NE N E | eP eS e e SSS M M | 07 47 27 57 52 58 07 59 17 08 07 32 26 15 26 50 | 9560 | |
| | Madras | E | iP i | 07 47 28 58 43 | | |
| | Hyderabad | N E N E N | i PP PPP iS PS SS SSS LQ LR LR M M | 07 47 42 50 57 52 51 58 00 58 47 08 03 30 06 48 07 30 13 50 14 41 19 21 20 24 | 9420 | |
| | Kodaikanal | E | e | 07 58 06 | | Tremor. |
| 04 | Shillong | Z | iP | 08 19 34 | | Slight, distant compression. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | / Km. | Remarks. |
|--------------------|----------------------|---------|----------|----------------------|----------|------------------------------|
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| 04 | Chatra | Z | iP | 09 19 47 | | Feeble, distant rarefaction. |
| 04 | Shillong | Z | iP | 11 35 53 | | Slight, distant compression. |
| 04 | Shilling | Z | iP | 14 16 29 | | Slight, distant compression. |
| | Chatra | Z | iP | 14 16 44 | | Feeble, distant compression. |
| 04 | Shillong | Z | Pg Sg | 14 55 33 55 45 | 110 | Feeble. |
| 04 | Chatra | Z | iP | 15 57 11 | | Mild, near rarefaction. |
| 04 | Shillong | Z | i | 15 57 34 | | Tremor. |
| 04 | Shillong | Z | Pg Sg | 19 54 02 54 15 | 110 | Slight. |
| 04 | Bokaro | N | i | 20 16 00 | | Slight, tremor. |
| 04 | Chatra | Z | eP | 20 16 21 | | Mild, near. |
| | Shillong (5.8.60) | Z | eP | 20 16 33 00 10 16 | | Slight, distant |
| 05 | Chatra | Z | eP S | 06 06 03 06 23 | 170 | Very mild. |
| 05 | Shillong | Z | e | 08 44 10 | | Tremor. |
| 05 | Chatra | Z | eP | 12 17 32 | | Mild, near. |
| | Shillong | Z | iP | 12 17 41 | | Slight, near compression. |
| 05 | Shillong | Z | iP | 16 16 04 | | Slight, distant compression. |
| 05 | Shillong | Z | iP | 16 34 26 | | Slight, distant compression. |
| 05 | Shillong | Z | iP | 22 38 39 | | Slight, distant compression. |
| | Chatra | Z NE | iP eS | 22 38 52 48 15 | 8040 | Feeble. |
| | Dehra Dun | NE | e | 23 06 37 | | Feeble. |
| 06 | Shillong | Z | iP | 03 13 01 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 03 13 32 | | Very feeble, distant. |
| 06 | Chatra | Z | iPg | 07 49 41 | | Very mild, near. |
| 06 | Shillong | Z | e e | 08 16 46 17 26 | | Slight, near. |
| 06 | Chatra | Z | eP | 15 09 43 | | Very feeble. |
| | Shillong | Z | iP | 15 09 44 | | Slight, distant compression. |

| Date | Station | Compt. | Phase | G. M.T. h. m. s. | Δ Km. | Remarks. |
|--------------------|-------------------|--------|--------------------------|--|-----------------|-----------------------------------|
| <u>August 1960</u> | | | | | | |
| 06 | Shillong | Z | iP P Pg S Sg | 17 27 57 27 59 28 00 28 20 28 24 | 200 | Slight, rarefaction. |
| | Chatra | Z | eP | 17 28 59 | | Mild, near. |
| 06 | Shillong | Z | Pg Sg | 18 40 24 40 43 | | Slight. |
| | Chatra | Z | iP S | 18 41 07 41 50 | | Mild. |
| 06 | Felt at Shillong. | | | | | |
| | Shillong | Z | iPg | 20 16 22 | | Slight, local. |
| | Chatra | Z | eP | 20 17 37 | | Very mild, near. |
| 06 | Shillong | Z | Pg Sg | 21 03 33 03 42 | 80 | Slight. |
| 07 | Shillong | Z | eP | 03 26 53 | | Slight, distant. |
| 07 | Chatra | Z | eP | 07 49 44 | | Very mild. |
| 07 | Chatra | Z | eP | 07 51 25 | | Very mild. |
| 07 | Tocklai | E | eP iS | 09 31 16 31 33 | | Slight, local |
| | Shillong | Z | eP P Pg S Sg | 09 31 48 31 51 31 54 32 15 32 20 | 230 | Slight, near. |
| | Chatra | Z | P S | 09 32 50 34 05 | 710 | Mild, near. |
| 07 | Shillong | Z | iP | 12 36 17 | | Slight, distant compression. |
| 07 | Shillong | Z | e i | 13 37 24 37 54 | | Slight, near. |
| 07 | Shillong | Z | iP | 22 37 07 | | Slight, distant rarefaction. |
| | Felt at Shillong. | | | | | |
| | Shillong | Z | Pg Sg | 01 10 03 10 06 | 20 | Local Slight. |
| 08 | Chatra | Z | iP | 12 36 11 | | Very feeble, distant rarefaction. |
| | Shillong | Z | eP | 12 36 36 | | Slight, distant. |
| | Dehra Dun | NE | e | 12 40 31 45 00 | | Feeble. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|--------------------|--|--------|----------|----------------------|----------|--------------------------------------|
| <u>August 1960</u> | | | | | | |
| 08 | Shillong | Z | eP | 13 34 12 | | Slight, distant. |
| 08 | Shillong | Z | eP | 18 19 49 | | Slight, distant rarefaction. |
| 08 | Chatra | Z | e | 20 45 22 | | Very mild. |
| | Shillong | Z | eP | 20 45 54 | | Slight, distant. |
| 09 | Shillong | Z | i i | 00 24 55 25 11 | | Slight, near |
| 09 | Shillong | Z | eP | 00 40 49 | | Slight, distant. |
| 09 | Shillong | Z | eP | 06 31 02 | | Slight, distant . |
| | Chatra | Z | iP | 06 32 04 | | Feeble, distant compression. |
| 09 | Chatra | Z | iP, PKP | 07 08 19 | | Feeble, distant. |
| 09 | Chatra | Z | eP | 18 21 31 | | Very feeble. |
| 09 | Shillong | Z | iP | 18 31 09 | | Slight, distant compression. |
| 09 | Chatra | Z | eP | 22 09 05 | | Very feeble. |
| 09 | Shillong | Z | eP eS | 23 29 24 29 59 | 210 | Slight. |
| 09 | Shillong | Z | iP | 23 49 06 | | Slight, distant compression. |
| | Chatra | Z | eP | 23 49 26 | | Feeble, distant. |
| 10 | Shillong | Z | eP | 04 50 57 | | Slight, rarefaction. |
| 10 | Shillong | Z | iP | 10 32 55 | | Slight, distant rarefaction. |
| 10 | Shillong | Z | iP | 12 58 22 | | Slight, distant rarefaction. |
| 10 | Shillong | Z | iP | 14 50 26 | | Slight, distant compression. |
| 10 | Shillong | Z | iP | 15 50 23 | | Slight, distant rarefaction. |
| 11 | Shillong | Z | iP | 00 46 45 | | Slight, distant compression. |
| 11. | Shillong | Z | eP | 02 13 42 | | Slight, near. |
| 11 | Dehra Dun | NE | e | 02 32 35 37 37 | | Feeble. |
| | Shillong | Z | iP | 02 38 38 | | Slight, distant compression. |
| 11 | Shillong | Z | i | 02 39 38 | | Local. |
| 11 | Epc: 0.0 , 121° .6 E, Celebes. -h = 46 Km.ca. -H = 02 h. 53 m. 16 s. (U.S.C.G.S). | | | | | |
| | Tocklai | E | iP | 05 00 32 | | Slight, distant initial motion East. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|--------------------|---|---------|---|---|-----------------|--|
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| | Shillong | ZE E | iP PP PPP IS i | 03 00 58 01 29 02 54 05 27 08 50 | 4150 | Slight, compression, First movement West. |
| | Chatra | Z NE | iP eS | 03 01 13 07 34 | 4680 | Feeble, rarefaction. |
| | Kodaikanal | E | e | 03 18 01 | | Tremor. |
| 11 | Epc: $8^{\circ} 8' N$, $126^{\circ} .1 E$, Mindanao island in the Philippines. -h = 79 Km.ca. -H = 04 h. 50 m. 34 s. (U.S.C.G.S). | | | | | |
| | Tocklai | E | iP | 04 57 23 | | Slight, distant initial movement East. |
| | Shillong | ZE E | iP PP PPP IS SS SSS M | 04 57 35 59 05 59 24 05 03 04 05 36 06 14 10 32 | 3850 | Slight, compression First movement West. |
| | Chatra | Z | iP | 04 58 12 | | Feeble, distant. |
| | Dehra Dun | NE | e | 04 58 30 | | Tremor. |
| | Hyderabad | E | M | 05 09 32 | | Period = 14 sec. Gr. dis. = 4 u. |
| 11 | Shillong | Z | iP | 06 31 07 | | Slight, distant rarefaction. |
| 12 | Shillong | Z | eP | 00 16 10 | | Slight, distant. |
| 12 | Shillong | Z | iP i Sg | 00 49 17 49 19 49 35 | 150 | Slight. |
| 12 | Chatra | Z | eP S | 04 05 27 06 45 | 750 | Feeble. |
| 12 | Shillong | Z | P Sg | 05 04 29 05 06 | 250 | Slight, rarefaction. |
| 12 | Chatra | Z | e | 07 56 37 | | Very mild, near. |
| 12 | Shillong | Z | iP | 10 34 25 | | Slight, distant compression. |
| | Poona | N | M | 10 35 00 | | Approx. |
| 12 | Shillong | Z | e i | 10 41 12 41 24 | | Slight, near. |
| 12 | Tocklai | E | iP | 13 20 18 | | Slight, distant initial movement West. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|------|---------|--------|-------|----------------------|----------|----------|
|------|---------|--------|-------|----------------------|----------|----------|

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| | | | | | | |
|----|---|---------|---|---|------|---|
| | Shillong | Z | iP | 13 20 32 | | Slight, compression. |
| | Chatra | Z | iP | 13 21 00 | | Feeble, distant compression. |
| | Dehra Dun | NE | e | 13 21 46 | | Tremor. |
| 12 | Shillong | Z | iP | 16 23 01 | | Slight, distant rarefaction. |
| 12 | Tocklai | E | eP | 20 56 05 | | Slight, near. |
| | Shillong | Z | eP | 20 56 15 | 230 | Slight. |
| | | | P | 56 19 | | |
| | | | Pg | 56 21 | | |
| | | | S | 56 42 | | |
| | | | Sg | 56 52 | | |
| 12 | Dehra Dun | NE | e | 21 08 04 | | Tremor. |
| | Chatra | Z | iP | 21 08 14 | | Very feeble, distant compression. |
| | Shillong | Z | iP | 21 08 56 | | Slight, distant compression. |
| 12 | Shillong | Z | eP | 22 28 28 | 240 | Slight. |
| | | | P | 28 31 | | |
| | | | Pg | 28 34 | | |
| | | | S | 28 56 | | |
| | | | Sg | 29 05 | | |
| 12 | Shillong | Z | iP | 23 30 59 | | Slight, distant compression. |
| | Chatra | Z | iP | 23 31 33 | | Very feeble, distant. |
| 13 | Shillong | Z | eP | 04 26 34 | | Slight, distant compression. |
| 13 | Poona | N | M | 05 00 00 | | Approximately. |
| 13 | Chatra | Z | iP | 05 34 32 | 790 | Mild. |
| | | | i | 34 45 | | |
| | | | S | 35 55 | | |
| 13 | Shillong | Z | P | 06 33 35 | 260 | Slight. |
| | | | Sg | 34 14 | | |
| 13 | Chatra | Z ZN | iP S | 07 10 11 10 29 | 130 | Very mild. |
| | Shillong | Z | iP | 07 10 47 | | Slight, near. |
| 13 | Epc: 40°6N, 142.0 E, Near East Coast of Honshu, Japan. -h = 60 Km.Ca. - H = 07 h. 11 m. 05 s. (U.S.C.G.S). | | | | | |
| | Tocklai | E | eP | 07 18 55 | | Slight, distant. |
| | Shillong | ZE E | iP iS PS PPS SS LQ SSS M | 07 19 12 25 39 25 47 25 51 28 48 29 30 29 40 35 00 | 4790 | Slight, compression First movement West. |

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| | Chatra | Z | iP | 07 19 36 | 5140 | Slight, compression. |
| | | N | eS | 26 23 | | |
| | Dehra Dun | NE | e | 07 20 14 | 5590 | Feeble |
| | | | iS | 27 27 | | |
| | Poona | Z | iP | 07 21 24 | | Feeble. |
| 13 | Epc: 39°7 S, 74°8 W, Near Coast of Southern Chile. -h = 61 km. Ca. -H = 14 h. 14 m. 57.7 s. (U.S.C.G.S). | | | | | |
| | Kodakanal | E | e | 14 34 23 | | Tremor. |
| | Calcutta | E | PKiPK | 14 34 25 | 17110 | Moderate. |
| | | | iPKP2 | 35 21 | | |
| | | | PP | 39 12 | | |
| | | | SS | 58 25 | | |
| | Madras | E | iPKP | 14 34 32 | | Very distant, moderate |
| | | | i | 34 49 | | |
| | | | i | 35 14 | | |
| | Poona | Z | iPKP ₁ | 14 34 32 | 16210 | Moderate. |
| | | | iPP | 37 54 | | |
| | | N | PPP | 41 16 | | |
| | | | SKSP | 48 09 | | |
| | | | SKKKS | 52 18 | | |
| | | | LR | 15 22 22 | | |
| | | | M | 33 29 | | |
| | Colombo | E | e | 14 34 33 | | |
| | | | e | 15 30 51 | | |
| | | | M | 41 06 | | Amp: = 1.3 mm. |
| | Hyderabad | EN | PKP ₁ | 14 34 43 | 16270 | Moderate. |
| | | | PP | 35 04 | | |
| | | E | PPP | 41 59 | | |
| | | | SKKS | 45 01 | | |
| | | NE | SKSP | 48 22 | | |
| | | | SS | 57 07 | | |
| | | E | SSS | 15 02 45 | | |
| | | | LQ | 18 40 | | |
| | | | LR | 25 37 | | |
| | | N | M | 35 37 | | |
| | | E | M | 35 45 | | |
| | Port Blair | E | iPKP | 14 34 44 | | Slight. |
| | | | i | 36 07 | | |
| | | | i | 38 37 | | |
| | | | i | 52 07 | | |
| | | | M | 15 23 22 | | |
| | Dehra Dun | NE | ePKP | 14 34 51 | 17100 | Moderate. |
| | | | PP | 38 49 | | |
| | | | i | 39 28 | | |
| | | | PPP | 42 35 | | |
| | | | i | 43 21 | | |
| | | | i | 47 36 | | |

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| | | | | | | | | |
|----|------------|----|-------------------|----|----|----|-------|-------------------------------------|
| | Dehra Dun | | SKSP | 49 | 13 | | | |
| | | | PPS | 52 | 08 | | | |
| | | | I | 53 | 54 | | | |
| | | | SS | 58 | 39 | | | |
| | Chatra | Z | iPKP ₁ | 14 | 34 | 54 | 17690 | Moderate, distant rarefaction. |
| | | | I | 34 | 55 | | | |
| | | ZN | PKP ₂ | 35 | 36 | | | |
| | | | PP | 39 | 04 | | | |
| | | NE | SS | 59 | 24 | | | |
| | Shillong | Z | PKP ₁ | 14 | 34 | 55 | | Moderate, very distant. |
| | | | PKP ₂ | 35 | 49 | | | |
| | | E. | PP | 39 | 26 | | | |
| | | | PPP | 44 | 46 | | | |
| 13 | Shillong | Z | Pg | 15 | 24 | 27 | 170 | Slight. |
| | | | Sg | 24 | 47 | | | |
| 13 | Shillong | Z | Pg | 17 | 26 | 25 | 170 | Slight |
| | | | | 26 | 45 | | | |
| 13 | Shillong | Z | Pg | 18 | 10 | 53 | 80 | Slight. |
| | | | Sg | 11 | 02 | | | |
| 14 | Shillong | Z | iP | 04 | 09 | 57 | | Slight, distant compression. |
| | Chatra | Z | iP | 04 | 10 | 12 | | Feeble, distant rarefaction. |
| 14 | Chatra | Z | iP | 05 | 10 | 29 | | Very mild, near rarefaction. |
| 14 | Chatra | Z | iP | 13 | 01 | 59 | | Very feeble, rarefaction. |
| | Shillong | Z | iP | 13 | 02 | 35 | | Slight, distant compression. |
| 14 | Shillong | Z | iP | 14 | 51 | 12 | | Slight, distant compression. |
| | Chatra | Z | iP | 14 | 51 | 36 | | Very feeble, distant compression. |
| 14 | Chatra | Z | eP | 15 | 36 | 38 | | Very mild, near. |
| | Shillong | Z | eP | 15 | 37 | 39 | | Slight, distant. |
| 14 | Shillong | Z | eP | 19 | 53 | 37 | | Slight, distant. |
| 14 | Shillong | Z | iP | 20 | 32 | 27 | | Slight, distant compression. |
| | Kodaikanal | E | e | 20 | 36 | 39 | | Tremor |
| | Hyderabad | E | M | 20 | 42 | 18 | | Period = 12 secs. Gr.dis: = 3 u. |
| 14 | Port Blair | N | iPg | 21 | 47 | 13 | 40 | Slight. |
| | | | iSg | 47 | 18 | | | |

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| 14 | Epc: 36°0 N, 69°3 E, Hindukush. -h = 59 Km.Ca. -H = 22 h. 37 m. 11.9 s. (U.S.C.G.S). | | | | | |
| | Dehra Dun | NE N | eP PPP LQ IS SS LR SSS Sg,M | 22 39 30 39 44 40 51 41 02 41 14 41 18 41 23 41 55 | 890 | Slight. |
| | Chatra | Z NEZ | iP iPP S | 22 41 12 41 33 44 17 | 1880 | Slight, compression rarefaction |
| | Poona | Z | iP PPP eS | 22 41 17 41 39 44 25 | 1880 | Slight. |
| | Shillong | Z E | iP IS | 22 42 06 46 07 | 2480 | Slight, compression. |
| | Tocklai | E | eP | 22 42 17 | | Slight, distant. |
| | Madras | E | e e e | 22 42 34 48 14 50 12 | | Slight. |
| | Vizianagram | N | eP | 22 45 58 | | Slight, distant. |
| | Bombay | NE | e | 22 46 34 | | Very slight and near tremor. |
| | Hyderabad | E | e | 22 47 54 | | |
| 14 | Dehra Dun | NE | e | 23 03 30 | | Tremor. |
| | Shillong | Z | iP | 23 05 19 | | Slight, distant, compression. |
| | Chatra | Z | eP | 23 19 29 | | Very feeble, distant. |
| 15 | Shillong | Z | Pg Sg | 00 48 21 48 25 | 30 | Slight. |
| 15 | Shillong | Z | i i | 03 00 47 01 17 | | Slight, near. |
| | Tocklai | E | eP | 03 01 07 | | Slight, near. |
| 15 | Tocklai | E | eP | 05 31 05 | | Slight, local. |
| | Shillong | Z | i | 05 32 16 | | Slight, near. |
| | Chatra | Z ZNE | iP S | 05 33 15 34 35 | 770 | Mild, rarefaction. |
| 15 | Shillong | Z | eP | 06 04 36 | | Slight, distant. |

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| | | | | | | |
|----|--|----|----|----------|------|------------------------------|
| 15 | Epc: 13°4 S, 65°8 E, Indian Ocean. -h = 15 Km.Ca. -H = 06 h. 58 m. 56.4 s. (U.S.C.G.S). | | | | | |
| | Hyderabad | E | eP | 07 03 34 | 4480 | Slight, first movement East. |
| | | | eS | 09 43 | | |
| | | | SS | 13 01 | | |
| | | | LR | 14 43 | | |
| | | | M | 18 07 | | |
| | Chatra | Z | eP | 07 07 17 | 5010 | Slight, feeble. |
| | | E | S | 13 57 | | |
| | Shillong | Z | iP | 07 07 24 | 5120 | Slight, distant compression. |
| | | E | iS | 14 10 | | |
| | Dehra Dun | NE | e | 07 07 35 | | Slight. |
| | | | i | 13 54 | | |
| | Colombo | E | e | 07 08 37 | | |
| | | | e | 14 20 | | |
| | | | M | 14 06 | | |
| | Kodaikanal | E | i | 07 09 51 | | Slight, West. |
| | | | e | 12 21 | | |
| | | | e | 12 57 | | |
| | | | M | 14 06 | | |
| | Madras | E | e | 07 10 38 | | |
| | Bombay | NE | e | 07 10 54 | | Slight. |
| | | | e | 14 56 | | |
| 15 | Shillong | Z | iP | 07 57 56 | | Slight, distant compression. |
| | Chatra | Z | iP | 07 58 19 | | Feeble, distant rarefaction. |
| 15 | Shillong | Z | iP | 10 08 00 | | Slight, distant rarefaction. |
| 15 | Epc: 13°5 S, 67.0 E, Indian Ocean. -h = 25 Km.Ca. -H = 14 h. 33 m. 38 s. (U.S.C.G.S). | | | | | |
| | Madras | E | e | 14 40 38 | | Slight. |
| | | | e | 44 46 | | |
| | | | M | 48 06 | | |
| | Bombay | N | e | 14 41 38 | | Slight |
| | | NE | e | 45 35 | | |
| | | E | M | 51 00 | | |
| | Chatra | Z | eP | 14 41 57 | 5100 | Slight. |
| | | E | S | 48 41 | | |
| | Dehra Dun | NE | e | 14 42 02 | | Slight. |
| | | | i | 48 39 | | |

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| | Kodaikanal | E | e | 14 42 42 | | Moderate. |
| | | | e | 45 45 | | |
| | | | e | 46 46 | | |
| | | | M | 48 00 | | |
| | Colaba | E | e | 14 43 27 | | |
| | | | e | 48 31 | | |
| | | | M | 49 46 | | Amp: = 1.4 mm. |
| | Hyderabad | E | i | 14 45 40 | | Slight |
| | | | e | 46 22 | | |
| | | | e | 48 37 | | |
| | | N | M | 51 10 | | |
| | | | M | 51 46 | | |
| | Shillong | E | i | 14 48 54 | | Slight. |
| | Port Blair | E | e | 14 49 04 | | Slight. |
| 16 | Shillong | Z | iP | 05 07 55 | | Slight, distant rarefaction. |
| 16 | Colombo | E | e | 10 34 31 | | |
| | | | e | 38 21 | | |
| 16 | Chatra | Z | iP | 10 37 56 | | Feeble, distant rarefaction. |
| | Shillong | Z | iP | 10 38 07 | | Slight, distant rarefaction. |
| 16 | Chatra | Z | iP | 11 58 19 | | Feeble, distant compression. |
| 16 | Shillong | Z | Pg | 15 49 03 | 140 | Slight. |
| | | | Sg | 49 20 | | |
| | Chatra | Z | i | 15 50 16 | | Very mild. |
| 16 | Tocklai | E | iP | 19 08 32 | | Slight, local, initial ground motion East. |
| 16 | Shillong | Z | iP | 22 36 36 | | Slight, distant rarefaction. |
| | Chatra | Z | eP | 22 37 09 | | Very feeble, distant. |
| 16 | Shillong | Z | iP | 23 11 13 | | Slight, distant compression. |
| 16 | Chatra | Z | e | 07 50 09 | | Very mild. |
| 17 | Colombo | E | e | 09 55 13 | | |
| 18 | Dehra Dun | NE | e | 06 26 50 | | Tremor. |
| | Shillong | Z | eP | 06 27 42 | | Slight, distant |
| 18 | Shillong | Z | iP | 08 00 39 | 200 | Slight, rarefaction. |
| | | | S | 01 02 | | |
| | | | Sg | 01 04 | | |
| | Chatra | Z | iP | 08 00 54 | 400 | Slight. |
| | | NE | S | 01 37 | | |

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| 18. | Shillong | Z | iP | 17 07 24 | | Slight, distant rarefaction. |
| 18 | Shillong | Z | iP | 20 55 45 | | Slight, distant compression. |
| | Chatra | Z | eP | 20 56 05 | | Feeble, distant. |
| 18 | Shillong | Z | iP | 21 45 07 | | Slight, distant compression. |
| | Chatra | Z | iP | 21 45 42 | | Feeble, distant. |
| 18 | Shillong | Z | iP | 22 56 00 | | Slight, distant compression. |
| | Chatra | Z | iP | 22 56 23 | | Very feeble, distant. |
| 19 | Epc: 25°9 N, 96°4 E. Northern Burma. -h = 27 Km.Ca. -H = 03 h. 08 m. 29.3 s. (U.S.C.G.S). | | | | | |
| | Felt at Shillong. | | | | | |
| | Tocklai | E | iP | 03 09 12 | | Slight, distant. |
| | Calcutta | E | e | 03 09 34 10 51 11 58 12 34 | | Slight. |
| | Shillong | ZE E | iP P LQ iS Sg | 03 09 39 09 48 10 15 10 26 10 47 | 430 | Slight, rarefaction first movement East. |
| | Chatra | Z NE | iP iS | 03 10 37 12 03 | 820 | Slight. |
| | Bokaro | NE N | iP PPP LQ iS M | 03 10 57 11 12 11 59 12 53 14 01 | 1130 | Slight. |
| | Dehra Dun | NE | e i | 03 12 29 16 21 | | Feeble. |
| 19 | Shillong | Z | iP | 08 17 11 | | Slight, distant compression. |
| 19 | Shillong | Z | iP | 12 49 11 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 12 49 42 | | Feeble, distant rarefaction. |
| 19 | Shillong | Z | eS | 12 58 21 | | Slight, distant. |
| | Chatra | Z | i | 12 59 18 | | Very mild, compression. |
| 19 | Tocklai | E | eP | 16 21 57 | | Slight, near. |
| | Chatra | Z | iP | 16 22 46 | | Very feeble, compression. |

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| 19 | Shillong | Z | iP | 17 13 31 | | Slight, distant compression. |
| | Chatra | Z | eP | 17 13 43 | | Very feeble, rarefaction. |
| 19 | Chatra | Z | eP | 21 17 08 | | Feeble, rarefaction. |
| 19 | Shillong | Z | eP | 23 12 54 | | Slight, distant. |
| 20 | Chatra | Z | iPg Sg | 04 35 29 33 44 | 120 | Very mild, near compression. |
| 20 | Chatra | Z | iP i i | 06 40 50 41 55 42 17 | | Mild, near, rarefaction. |
| 20 | Chatra | Z | iPg Sg | 13 46 55 47 05 | 70 | Very mild, near compression. |
| 20 | Shillong | Z | eP | 20 27 23 | | Slight, distant. |
| 20 | Epc: 0.5 N, 122.0 E. Northern Celebes. -h = 59 Km.Ca. -H = 22 h. 22 m. 44.6 s. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | iP | 22 29 54 | | Slight, distant initial ground motion East. |
| | Shilling | ZE E | iP PP PPP iS SS SSS | 22 30 00 31 31 31 54 35 51 38 23 38 55 | 4190 | Slight, rarefaction First movement East. |
| | Chatra | Z E | iP S | 22 30 35 36 53 | 4650 | Slight. |
| | Poona | Z | iP | 22 31 40 | | Tremor. |
| | Dehra Dun | NE | e i | 22 31 46 38 57 | | Feeble. |
| | Bombay | NE | e | 22 39 04 | | |
| 21 | Epc: 4°3 S, 145°3 E, New Guinea. -h = 39 Km.Ca. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | iP | 00 27 48 | | Tremor, initial ground motion East. |
| | Shillong | ZE E | iP iS | 00 27 57 38 38 | 9730 | Slight, rarefaction First movement East. |
| | Chatra | Z | iP | 00 28 26 | | Feeble, distant rarefaction. |
| | Dehra Dun | NE | e | 00 29 26 | | Tremor. |
| | Poona | Z | iP | 00 29 27 | | Tremor. |

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| 21 | Shillong | Z | iP iS | 01 09 43 19 11 | 8130 | Slight, rarefaction. |
| | Chatra | Z | iF | 01 10 10 | | Mild, distant compression. |
| 21 | Epc: 26°4 N, 88°6 E, India Nepal Border. -h = 81 Km.Ca. -H = 03 h. 29 m. 11.8 s. (U.S.C.G.S). 28° N, 87°03 E, -H = 03 h. 29 m. 05 s. (Shillong). Magnitude : 5½ (Shillong). | | | | | |
| | Chatra | Z NE | iP S | 03 29 33 29 55 | 170 | Slight, Moderate compression. |
| | Shillong | ZE E | iP P Pg LQ S Sg | 03 29 55 29 57 30 03 30 20 30 29 30 40 | 310 | Slight, rarefaction. First movement West. |
| | Tocklai | E | eP PP P* PPP Pg LQ eS LR SS S* SSS Sg,M | 03 30 21 30 28 30 30 30 34 30 39 31 01 31 12 31 14 31 22 31 24 31 32 31 35 | 480 | Slight. |
| | Bokaro | NE N | eP Pg iS SSS Sg | 03 30 23 30 46 31 21 31 22 31 49 | 550 | Slight. |
| | Calcutta | N E N E | eP eP Pg iS i | 03 30 23 30 24 30 40 31 24 31 25 | 570 | Moderate. |
| | Dehra Dun | NE N | eP iS SS LR SSS Sg,M | 03 31 28 33 11 33 22 33 29 33 34 34 08 | 1000 | Slight. |
| | Hyderabad | E NE | eP eS LR M | 03 32 10 35 37 36 12 37 16 | 1760 | Slight |

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| 21 | Vizianagram | N | iP | 03 33 38 | | Slight, North. |
| | Poona | Z | iP | 03 32 50 | 1840 | Moderate. |
| | | | PP | 33 00 | | |
| | | N | eS | 35 53 | | |
| | | Z | LR | 36 31 | | |
| | Madras | E | e | 03 35 52 | | Slight. |
| | | | | 36 07 | | |
| | | | | 37 02 | | |
| | | | | 37 59 | | |
| | Bombay | N | e | 03 36 15 | | Very slight, near tremor. |
| | | NE | e | 37 47 | | |
| | Kodaikanal | E | e | 03 37 44 | | Tremor. |
| 21 | Epc: 4°9' N, 125°1' E, Near South Coast of Mindanao in the Philippines. -h = 211 Km.Ca. -H = 12 h. 49 m. 37.6 s. (U.S.C.G.S). | | | | | |
| | Fort Blair | E | iP | 12 55 54 | | Slight. |
| | Tocklai | E | iP | 12 56 30 | | Slight, distant Initial ground motion East. |
| | Shillong | Z | iP | 12 56 39 | 4000 | Slight. |
| | | | iS | 13 02 18 | | |
| | Chatra | $\frac{1}{2}$ N | iP | 12 57 15 | 4450 | Feeble, slight. |
| | | N | S | 13 02 21 | | |
| | Dehra Dun | NE | eP | 12 58 23 | 5350 | Feeble. |
| | | | iS | 13 05 22 | | |
| | Poona | Z | iP | 12 58 28 | | Tremor. |
| | Bombay | N | e | 13 05 49 | | Slight |
| | | | e | 12 33 | | |
| 21 | Shillong | Z | iP | 17 12 26 | | Slight, distant rarefaction. |
| 21 | Shillong | Z | iP | 18 13 35 | | Slight, distant compression. |
| 21 | Shillong | Z | iP | 22 03 29 | | Slight, distant rarefaction. |
| 21 | Shillong | Z | iP | 22 29 09 | | Slight, distant compression. |
| | Chatra | Z | iP | 22 29 28 | | Very feeble, distant rarefaction. |
| 22 | Dehra Dun | NE | e | 12 27 05 | | Tremor. |
| | Shillong | Z | eP | 12 28 24 | | Slight, distant. |
| 22 | Shillong | Z | eP | 16 41 45 | | Slight, near. |
| | Tocklai | E | eP | 16 42 10 | | Slight, distant. |
| | Chatra | Z | iP | 16 42 47 | | Very feeble, compression. |

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| 22 | Shillong | Z | eP | 18 19 30 | | Slight, distant. |
| 22 | Shillong | Z | iP | 22 05 52 | | Slight, distant rarefaction. |
| 22 | Shillong | Z | iP | 22 05 52 | | Slight, distant rarefaction. |
| 23 | Epc: 29.0 N, 59.9 E. South Eastern Iran. -h = 116 Km. -H = 08 h. 58 m. 12.1 s. (U.S.C.G.S). | | | | | |
| | Bombay | E | eP | 09 01 57 | | Slight. |
| | Poona | Z | eP | 09 02 03 | | Tremor. |
| | Dehra Dun | NE | eP | 09 02 08 | 1720 | Slight. |
| | | N | iS | 05 01 | | |
| | | | SS | 05 21 | | |
| | | | LR | 05 37 | | |
| | | | M | 06 54 | | |
| | Hyderabad | EN | iP | 09 02 47 | 2420 | Slight, first movement East and South. |
| | | E | PPP | 03 27 | | |
| | | EN | eS | 06 44 | | |
| | | | SS | 07 35 | | |
| | | E | M | 10 26 | | |
| | | N | M | 10 29 | | |
| | Bokaro | NE | eP | 09 03 20 | 2570 | Slight. |
| | | | iS | 07 28 | | |
| | Chatra | Z | iP | 09 03 24 | 2790 | Slight |
| | | NE | S | 07 47 | | |
| | Shillong | Z | eP | 09 04 03 | 3070 | Slight, distant. |
| | | E | eS | 08 44 | | |
| | Calcutta | E | e | 09 06 07 | | Slight |
| | | | i | 07 32 | | |
| | | | i | 10 54 | | |
| 23 | Dehra Dun | NE | e | 09 33 07 | | Tremor. |
| | Shillong | Z | eP | 09 33 46 | | Slight, distant. |
| 23 | Dehra Dun | NE | e | 13 53 39 | | Tremor. |
| 23 | Chatra | Z | iP | 14 48 55 | 610 | Feeble, rarefaction. |
| | | ZN | S | 48 00 | | |
| | Shillong | Z | eP | 14 47 37 | | Slight, distant. |
| 23 | Calcutta | N | eP | 16 20 55 | 610 | Slight. |
| | | | PP | 21 01 | | |
| | | | Pg | 21 15 | | |
| | | | iS | 21 59 | | |
| | | | SS | 22 15 | | |

| Date | Station | Compt. | Phase | G.M. T. h. m. s. | Δ Km. | Remarks. |
|--------------------|-------------------|--------------|---------------------------------|---|-----------------|--|
| <u>August 1960</u> | | | | | | |
| 23 | Bombay | N | e M | 23 42 09 59 00 | | Slight. |
| 24 | Chatra | Z NE | eP iS | 01 54 22 02 02 55 | 6680 | Slight. |
| 24 | Bokaro | NE | i | 02 03 17 | | |
| | Hyderabad | E N | e M | 02 05 01 23 50 | | Period = 18 sec. Gr. dis. = 10 u. |
| | | E | M | 24 48 | | Period = 18 sec. Gr. dis. = 12 u. |
| | Bombay | NE N E | e M M | 02 05 25 26 15 30 11 | | Slight. |
| 24 | Calcutta | E | e | 02 19 52 | | |
| 24 | Port Blair | N | iPg iSg | 06 58 13 58 18 | 40 | Slight. |
| 24 | Shillong | ZE E | iP P* Pg S S* Sg | 16 19 59 20 01 20 05 20 26 20 28 20 29 | 250 | Slight, rarefaction. |
| | Chatra | Z N | eP i S | 16 20 09 20 15 20 48 | 360 | Slight. |
| | Tocklai | E | iP | 16 20 30 | | Slight, distant initial ground motion West. |
| | Calcutta | E | e | 16 21 07 | | Slight. |
| | Dehra Dun | NE | e | 16 25 56 | | Tremor. |
| 24 | Shillong | Z | iP Sg | 16 28 57 29 24 | 200 | Slight. |
| | Chatra | Z | iP S | 16 29 12 29 49 | 550 | Very mild. |
| 24 | Felt at Shillong. | | | | | |
| | Shillong | Z | Pg Sg | 18 13 52 13 55 | 20 | Slight. |

| Date | Station | Compt. | Phase | G. M. T. | △ h. m. s. Km. | Remarks. |
|---------------------|---|------------------------|---|---|-------------------|--|
| <u>August, 1960</u> | | | | | | |
| 24 | Epc: 24° 4' N, 95° 0' E. India Burma Border. -h = 145 Km.Ca. -H = 19 h. 27 m. 53.2 s.(U.S.C.G.S). Felt at Jorhat, Gauhati, Tezpur, Dimapur and Mangaldai. | | | | | |
| | Tocklai | E | iP | 19 28 29 | | Slight, distant initial ground motion West. |
| 24 | Shillong | ZE | iP P PPP i iS | 19 28 36 28 44 28 49 29 05 29 07 | 280 | Slight, compression First movement - West. |
| | Calcutta | NE N E N E | e iP PP e Pg i iS Sg | 19 29 25 29 26 29 32 29 46 29 48 30 25 30 30 30 58 | 610 | Moderate, first/movement West. |
| | Chatra | Z, N | iP S | 19 29 57 30 53 | 730 | Moderate. |
| | Fort Blair | N | i i | 19 30 54 33 19 | | Slight. |
| | Dehra Dun | NE N | eP iS SS SSS LR M | 19 31 36 34 20 34 35 34 49 34 57 36 11 | 1620 | Slight. |
| | Hyderabad | E NE E E N | iP i i i M M | 19 31 39 34 51 35 18 35 36 38 21 38 21 | | Slight, first motion East. |
| | Madras | E | iP eS e LR | 19 31 58 35 05 35 20 35 53 | 1870 | Slight. |
| | Poona | Z E | iP iS LQ SSS | 19 32 24 35 59 36 06 36 17 | 2170 | Slight. |
| | Bombay | NE E NE | e e e | 19 32 57 36 10 36 25 | | Slight. |
| 24 | Chatra | Z | eP | 20 31 55 | | Very feeble. |

 Date Station Compt. Phase G. M. T. Δ - Remarks.
 h. m. s. Km.


August 1960

| | | | | | | |
|----|---|----|------|----------|------|---|
| 24 | Chatra | Z | eP | 20 51 31 | 350 | Slight. |
| 24 | Tocklai | E | eP | 20 52 20 | | Slight, near. |
| 25 | Chatra | Z | iPg | 04 25 10 | 89 | Very mild, near. |
| 25 | Epc: 52°7 N, 169°6 W, Fox Island in the Aleutians. -h = 38 Km.Ca. -H = 17 h. 41 m. 59 s. (U.S.C.G.S) | | | | | |
| | Shillong | ZE | iP | 17 53 39 | 8360 | Slight, compression First motion West. |
| | | E | FP | 56 16 | | |
| | | | PPP | 58 08 | | |
| | | | iS | 18 03 18 | | |
| | | | PS | 04 06 | | |
| | | | PPS | 04 36 | | |
| | Dehra Dun | NE | eP | 17 54 04 | 9020 | Slight. |
| | | | eS | 18 04 14 | | |
| | Bokaro | NE | i | 18 04 25 | | |
| | Bombay | NE | e | 18 06 10 | | Slight. |
| | | | M | 38 00 | | |
| | Hyderabad | E | M | 18 37 18 | | Period = 15 secs. Gr.dis. = 4 u. |
| | | | | | | |
| 26 | Shillong | Z | P | 05 11 46 | 220 | Slight. |
| 26 | Epc: 28°1 N, 66°7 E, West Pakistan. -h = 68 Km. -H = 07 h. 09 m. 40.3 s. (U.S.C.G.S) | | | | | |
| | Dehra Dun | NE | eP | 07 12 06 | 980 | Slight. |
| | | N | iS | 13 47 | | |
| | | | SS | 13 57 | | |
| | | | LR | 14 04 | | |
| | | | SSS | 14 11 | | |
| | | | Sg,M | 14 45 | | |
| | Poona | Z | eP | 07 12 35 | 1360 | Slight. |
| | | | PPP | 12 51 | | |
| | | | LQ | 14 48 | | |
| | | E | eS | 14 54 | | |
| | | Z | LR | 15 18 | | |
| | | E | M | 16 18 | | |
| | Chatra | Z | eP | 07 13 47 | | Very feeble, probably near. |
| | Shillong | Z | iP | 07 14 37 | 2600 | Slight, rarefaction. |
| | | E | PPP | 15 18 | | |
| | | | PcP | 18 34 | | |
| | | | iS | 18 47 | | |
| | | | LQ | 19 09 | | |
| | | | SSS | 19 46 | | |
| | | | LR | 20 00 | | |
| | | | M | 22 03 | | |
| | | | | | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|--------------------|-------------|---------|---|--|----------|------------------------------------|
| <u>August 1960</u> | | | | | | |
| | Bombay | E | eS | 07 14 45 | | Slight and near. |
| | | NE | e | 15 54 | | |
| | | E | e | 16 08 | | |
| | Calcutta | E | PP | 07 14 49 | 2330 | Slight. |
| | | | e | 15 21 | | |
| | | | iS | 18 18 | | |
| | | | LQ | 19 17 | | |
| | Bokaro | NE | e | 07 16 48 | | Slight. |
| | | | i | 19 00 | | |
| | Chatra | Z | e | 07 16 58 | | Slight. |
| | | NE | i | 19 39 | | |
| | Vizianagram | N | e | 07 17 39 | | Slight, distant. |
| | Hyderabad | N | M | 07 19 06 | | period = 9 secs. Gr.dis. = 5 u. |
| | | E | M | 19 18 | | Period = 9 secs. Gr.dis. = 4 u. |
| | Madras | E | e | 07 19 10 | | Feeble. |
| 26 | Chatra | Z | eP | 09 28 46 | | Very feeble, distant. |
| 26 | Shillong | Z | Pg Sg | 09 35 27 35 49 | 180 | Slight |
| | Chatra | Z | P | 09 35 37 | 320 | Mild, compression. |
| | | NZ | S | 36 14 | | |
| 26 | Dehra Dun | NE N | eP LQ iS LQ SS SSS Sg,M | 09 47 23 48 34 48 47 48 54 48 58 49 10 49 35 | 810 | Slight. |
| | Chatra | Z NE | eP S | 09 49 15 52 04 | 1680 | Feeble. |
| 26 | Shillong | Z | iP | 09 50 08 | | Slight, distant compression. |
| 26 | Poona | Z | eP | 09 52 44 | | Feeble. |
| 26 | Bokaro | NE | e | 09 54 49 | | Slight. |
| 26 | Madras | E | e e | 09 56 48 57 44 | | Feeble. |
| 26 | Shillong | Z | iP | 11 56 04 | | Slight, distant compression. |
| 26 | Shillong | Z | P Sg | 17 48 24 48 55 | 220 | Slight |
| 26 | Shillong | Z | iP | 18 39 34 | | Slight, distant rarefaction. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | ∠ Km. | Remarks. |
|--------------------|---|----------------------------------|--------------------------------------|---|----------|------------------------------|
| <u>August 1960</u> | | | | | | |
| | Chatra | Z | iP | 18 39 57 | | Feeble, distant. |
| 26 | Shillong | Z | P Sg | 20 52 46 53 14 | 200 | Slight. |
| | Chatra | Z | P S | 20 52 59 53 35 | 320 | Mild, rarefaction. |
| 27 | Chatra | Z | eP | 10 26 28 | | Very feeble, distant. |
| 27 | Epc: Near Assam Bhutan Border. -h = 12 h. 31 m. 00 s. G.M.T. (Shillong). | | | | | |
| | Shillong | ZE E | iP iS | 12 31 37 32 07 | 260 | Slight. |
| | Chatra | Z N | iP PP i Pg PPP S | 12 31 45 31 50 31 52 31 55 31 56 31 57 32 22 | 330 | Moderate. |
| | Tocklai | E | eP eS | 12 32 05 32 51 | 450 | Slight, near. |
| | Calcutta | N EN E N E N E | eP? eP e? P S iS • | 12 32 15 32 27 32 29 32 31 33 27 33 37 33 41 33 41 | 810 | Moderate. |
| | Bokaro | NE | e iS | 12 32 37 33 45 | | Slight. |
| | Dehra Dun | NE | e i i | 12 33 45 35 36 36 51 | | Feeble. |
| | Sehore | N | eP | 12 34 34 | | Slight, distant. |
| 27 | Hyderabad | E | • • | 12 37 54 38 22 | 440 | Slight. |
| 27 | Poona | Z | eP | 12 38 02 | 934 | Slight. |
| | Madras | E | e e e | 12 38 14 39 06 40 17 | | Feeble. |
| | Bombay | E | e | 12 39 00 | | Very slight and near tremor. |
| 27 | Dehra Dun | NE | e | 13 37 51 | | Tremor. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Remarks |
|--------------------|---|--------|-------|----------------------|------------------------|
| | | | | Km. | |
| <u>August 1960</u> | | | | | |
| 27 | Epc: 28.2 N, 77.4 E, India | | | | |
| | -h = about 109 Km. 50 injured and minor property damage at New Delhi. | | | | |
| | -H = 15 h. 58 m. 59.2 s. (U.S.C.G.S). | | | | |
| | 28° N, 78° E, -H = 15 h. 58 m. 50 s. (Shillong) | | | | |
| | Mag: 6 (Shillong) Also felt at Kanpur and Jaipur. | | | | |
| | Dehra Dun | NE | eP | 15 59 29 | 230 |
| | | N | PP | 59 37 | |
| | | | PPP | 59 44 | |
| | | | eS | 59 56 | |
| | | | SS | 16 00 06 | |
| | | | SSS | 00 18 | |
| | Sehore | NE | e | 15 59 58 | 510 |
| | | | iS | 16 00 56 | |
| | Bokaro | NE | eP | 16 01 03 | 1000 |
| | | | iS | 02 46 | |
| | | | SS | 03 08 | |
| | | | e | 03 51 | |
| | Chatra | Z | eP | 16 01 04 | 1000 Rarefaction. |
| | | | i | 01 05 | |
| | | | e | 01 48 | |
| | | | SS | 03 03 | |
| | | | e | 03 47 | |
| | Poona | Z | eP | 16 01 27 | 1150 |
| | | | PP | 01 32 | |
| | | | PPP | 01 41 | |
| | | | LQ | 03 08 | |
| | | | eS | 03 25 | |
| | | | SS | 03 35 | |
| | | | LR | 03 40 | |
| | | | SSS | 03 45 | |
| | | | Lg | 04 26 | |
| | Bombay | E | e | 16 02 00 | 1130 Phases not clear. |
| | | | eS | 03 26 | |
| | | | SSS | 03 54 | |
| | | | Lg | 04 26 | |
| | Shillong | Z | eP | 16 02 01 | 1490 Slight. |
| | | | iS | 04 32 | |
| | Madras | E | e | 16 02 54 | 1680 Phases not clear. |
| | | | eS | 05 17 | |
| | | | SS | 05 36 | |
| | | | SSS | 05 51 | |
| | | | eg | 06 59 | |
| | Calcutta | EN | e | 16 03 30 | 1220 |
| | | | eS | 03 47 | |
| | | | e | 04 41 | |
| | | E | Lg | 04 59 | |
| | | N | e | 05 00 | |
| | | | Lg | 05 02 | |
| | Tocklai | E | e | 16 04 39 | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. |  Km. | Remarks. |
|--------------------|-------------|--------|-------|----------------------|--|-----------------------------|
| <u>August 1960</u> | | | | | | |
| | Hyderabad | E | e | 16 04 40 | | |
| | | | e | 05 22 | | |
| | Vizianagram | N | e | 16 05 06 | | |
| | | NE | i | 06 04 | | |
| 27 | Shillong | Z | eP | 18 26 15 | | Slight, distant. |
| | Port Blair | N | i | 18 26 23 | | Slight. |
| | Madras | E | e | 18 27 27 | | Feeble. |
| 27 | Dehra Dun | NE | e | 22 22 41 | | Tremor. |
| | Shillong | Z | iP | 22 23 29 | | Slight, distant. |
| 28 | Chatra | Z | iPg | 03 44 27 | 90 | Mild, rarefaction. |
| | | ZN | Sg | 44 38 | | |
| 28 | Shillong | Z | eP | 06 25 05 | | Slight. |
| 28 | Chatra | Z | iPn | 17 56 50 | 210 | Mild. |
| | | | Sn | 57 13 | | |
| 29 | Shillong | Z | Pg | 10 54 22 | 150 | Slight. |
| | | | Sg | 54 50 | | |
| 29 | Shillong | Z | P | 11 53 56 | 220 | Slight. |
| | | | Sg | 54 28 | | |
| 29 | Chatra | Z | e? | 11 57 16 | | Mild, near. |
| 29 | Dehra Dun | NE | e | 16 25 29 | | Feeble. |
| | | | e | 26 38 | | |
| | Chatra | Z | eP? | 16 26 58 | | Very feeble. |
| | | | e | 29 51 | | |
| | Shillong | Z | iP | 16 27 44 | | Slight, distant rarefaction |
| 30 | Shillong | Z | P | 04 47 27 | 330 | Slight. |
| | | | Sg | 48 17 | | |
| 30 | Shillong | Z | eP | 06 49 44 | 300 | Slight. |
| | | E | eS | 51 18 | | |
| 30 | Shillong | Z | iP | 10 20 22 | | Slight, distant compression |
| 31 | Shillong | Z | P | 02 18 07 | 290 | Slight. |
| | | | Sg | 18 50 | | |
| | Chatra | Z | e | 02 19 11 | | Very feeble. |
| | | ZN | e | 20 47 | | |
| 31 | Chatra | Z | iPg | 06 17 53 | 120 | Slight, compression. |
| | | NE | iSg | 18 07 | | |
| | Shillong | Z | eP | 06 18 53 | | Slight. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|--------------------|----------|--------|-------|----------------------|----------|-----------------------------------|
| <u>August 1960</u> | | | | | | |
| 31 | Shillong | Z | iP | 09 10 08 | | Slight, near rarefaction. |
| | Chatra | Z | e | 09 10 52 | | Very feeble. |
| 31 | Shillong | Z | iP | 17 27 56 | | Slight. |
| 31 | Chatra | Z | iP | 22 20 01 | | Very feeble, distant compression. |
| | Shillong | Z | iP | 22 20 33 | | Slight. |

The following is the list of earthquakes that are reported by the voluntary observers from the different stations during the month of August, 1960.

| Place | Date in G. M. T. | Time in G. M. T. | No. of shock. | Duration of shock. | Intensity in R.F. Scale. | Remarks. |
|---------------------------------|---------------------|---------------------|------------------|-----------------------|-----------------------------|----------|
| Shillong | 6.8.60 | 20 17 | One | 4 secs. | III - IV. | |
| Shillong | 7.8.60 | 09 32 | One | 3 secs. | III - IV. | |
| Shillong | 8.8.60 | 01 11 | One | 2 secs. | III - IV. | |
| Shillong | 19.8.60 | 03 10 | One | 2 secs. | III - IV. | |
| Gangtok (Sikkim) | 21.8.60 | 03 30 | Two | 30 secs. | VI. | |
| Darjeeling | 21.8.60 | 03 40 | One | 6 secs. | IV | |
| Nagrakata (Doors) Jalpaiguri | 21.8.60 | 03 31 | Two | 4 secs. | IV. | |
| Shillong | 24.8.60 | 18 15 | One | 5 secs. | III. | |
| Shillong | 24.8.60 | 19 30 | One | 5 secs. | IV. | |
| Darrang | 24.8.60 | 19 35 | One | 15 secs. | V. | |
| Lumding | 24.8.60 | 19 30 | One | 2 secs. | V. | |
| Churu (Rajasthan) | 27.8.60 | 16 00 | One | 2 secs. | V. | |
| Shillong | 27.8.60 | 12 32 | One | 2 secs. | IV. | |
| Jalpaiguri | 27.8.60 | 11 00 | One | 6 secs. | IV. | |
| Jalpaiguri | 27.8.60 | 12 32 | One | 6 secs. | IV. | |
| Gauhati | 27.8.60 | 12 32 | One | 4 secs. | III. | |

MICROSEISMIC TABULATION

Station : Shillong.

Component : E-W.

Month : August, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|------|------|-----|------------------------------|---------------------------|--------|------|-----|------------------------------|---------------------------|
| | | | | | G.M.T. | | | | |
| 01 | 00 | 3 | 0.4 | 4.7 | 12 | 00 | 1 | 0.4 | 4.5 |
| | 06 | 3 | 0.4 | 4.3 | | 06 | ... | - | - |
| | 12 | 3 | 0.5 | 4.6 | | 12 | 1 | 0.4 | 4.3 |
| | 18 | 3 | 0.5 | 4.7 | | 18 | 1 | 0.5 | 4.8 |
| 02 | 00 | 3 | 0.4 | 4.3 | 15 | 00 | 1 | 0.5 | 4.9 |
| | 06 | ... | - | - | | 06 | 1 | 0.4 | 4.3 |
| | 12 | 1 | 0.4 | 4.5 | | 12 | 1 | 0.4 | 4.4 |
| | 18 | 1 | 0.5 | 5.0 | | 18 | 1 | 0.4 | 4.5 |
| 03 | 00 | 1 | 0.4 | 4.4 | 14 | 00 | 1 | 0.3 | 4.0 |
| | 06 | 1 | 0.4 | 4.6 | | 06 | 1 | 0.4 | 4.5 |
| | 12 | 1 | 0.3 | 4.2 | | 12 | 1 | 0.4 | 4.5 |
| | 18 | 1 | 0.3 | 4.0 | | 18 | 1 | 0.4 | 4.4 |
| 04 | 00 | 1 | 0.3 | 3.9 | 15 | 00 | 1 | 0.4 | 4.4 |
| | 06 | 3 | 0.3 | 3.7 | | 06 | 1 | 0.4 | 4.2 |
| | 12 | 3 | 0.3 | 3.8 | | 12 | 1 | 0.4 | 4.4 |
| | 18 | 3 | 0.3 | 4.0 | | 18 | 1 | 0.4 | 4.5 |
| 05 | 00 | 3 | 0.5 | 4.1 | 16 | 00 | 1 | 0.5 | 4.0 |
| | 06 | 3 | 0.2 | 3.6 | | 06 | 1 | 0.4 | 4.4 |
| | 12 | 3 | 0.3 | 3.8 | | 12 | 1 | 0.4 | 4.4 |
| | 18 | 3 | 0.2 | 3.5 | | 16 | 1 | 0.4 | 4.5 |
| 06 | 00 | 3 | 0.3 | 4.0 | 17 | 00 | 1 | 0.5 | 5.0 |
| | 06 | 1 | 0.3 | 4.0 | | 06 | 1 | 0.4 | 4.3 |
| | 12 | ... | - | - | | 12 | 1 | 0.3 | 4.1 |
| | 18 | ... | - | - | | 18 | 1 | 0.3 | 4.0 |
| 07 | 00 | ... | - | - | 18 | 00 | 1 | 0.4 | 4.2 |
| | 06 | 0.. | - | - | | 06 | 1 | 0.3 | 4.0 |
| | 12 | 0.. | - | - | | 12 | 1 | 0.4 | 4.3 |
| | 18 | 0.. | - | - | | 18 | 1 | 0.4 | 4.2 |
| 08 | 00 | 0.. | - | - | 19 | 00 | 1 | 0.4 | 4.0 |
| | 06 | 0.. | - | - | | 03 | 1 | 0.4 | 4.2 |
| | 12 | 0.. | - | - | | 06 | 1 | 0.4 | 4.4 |
| | 18 | 0.. | - | - | | 09 | 1 | 0.4 | 4.3 |
| 09 | 00 | 0.. | - | - | | 12 | 1 | 0.5 | 4.5 |
| | 06 | ... | - | - | | 15 | 1 | 0.5 | 4.7 |
| | 12 | ... | - | - | | 18 | 1 | 0.5 | 4.8 |
| | 18 | ... | - | - | | 21 | 1 | 0.5 | 5.0 |
| 10 | 00 | ... | - | - | 20 | 00 | 1 | 0.6 | 5.3 |
| | 06 | 1 | 0.4 | 5.0 | | 03 | 1 | 0.4 | 4.2 |
| | 12 | 1 | 0.3 | 4.7 | | 06 | 1 | 0.5 | 5.0 |
| | 18 | 1 | 0.4 | 5.1 | | 12 | ... | - | - |
| | | | | | | 18 | ... | - | - |
| 11 | 00 | 1 | 0.5 | 5.3 | 21 | 00 | ... | - | - |
| | 06 | 1 | 0.4 | 4.2 | | 06 | 1 | 0.4 | 4.3 |
| | 12 | 1 | 0.5 | 4.8 | | 12 | ... | - | - |
| | 18 | 1 | 0.4 | 4.5 | | 18 | 1 | 0.4 | 4.5 |

Shillong (Contd).

August, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|------|------|-----|------------------------|---------------------|---|------|---|------------------------|---------------------|
| 22 | 00 | 1 | 0.4 | 4.5 | Station: Bombay (Colaba) Component E-W. | | | | |
| | 06 | 1 | 0.3 | 4.0 | | | | | |
| | 12 | 1 | 0.3 | 3.8 | 01 | 00 | 3 | 3.3 | 4.7 |
| | 18 | 1 | 0.3 | 3.8 | | | | 1.3 | 2.3 |
| | | | | | | 06 | 3 | 2.9 | 4.4 |
| 23 | 00 | 1 | 0.3 | 3.6 | | | | 1.0 | 1.9 |
| | 06 | 1 | 0.3 | 3.7 | | 12 | 3 | 3.7 | 4.5 |
| | 12 | 1 | 0.4 | 4.0 | | | | 1.3 | 2.5 |
| | 18 | 1 | 0.4 | 4.0 | | 18 | 3 | 3.8 | 4.3 |
| | | | | | | | | 1.1 | 2.2 |
| 24 | 00 | 1 | 0.3 | 3.7 | 02 | 00 | 3 | 3.3 | 4.2 |
| | 06 | ... | - | - | | | | 1.0 | 2.1 |
| | 12 | 1 | 0.3 | 3.5 | | 06 | 3 | 3.6 | 4.0 |
| | 18 | ... | - | - | | | | 1.1 | 2.0 |
| 25 | 00 | ... | - | - | | 12 | 3 | 3.4 | 4.1 |
| | 06 | ... | - | - | | | | 1.6 | 2.3 |
| | 12 | ... | - | - | | 18 | 3 | 3.4 | 4.1 |
| | 18 | ... | - | - | | | | 1.3 | 2.5 |
| 26 | 00 | 3 | 0.2 | 3.5 | 03 | 00 | 3 | 2.9 | 4.1 |
| | 06 | 0,0 | - | - | | | | 1.1 | 2.5 |
| | 12 | 0,0 | - | - | | 06 | 3 | 2.8 | 3.9 |
| | 18 | 0,0 | - | - | | | | 1.4 | 2.3 |
| 27 | 00 | 0,0 | - | - | | 12 | 3 | 2.9 | 4.0 |
| | 06 | ... | - | - | | | | 1.3 | 2.3 |
| | 12 | ... | - | - | | 18 | 3 | 2.8 | 4.1 |
| | 18 | ... | - | - | | | | 1.5 | 2.5 |
| 28 | 00 | ... | - | - | 04 | 00 | 3 | 2.3 | 4.0 |
| | 06 | 0,0 | - | - | | | | 1.3 | 2.3 |
| | 12 | ... | - | - | | 06 | 3 | 3.0 | 3.9 |
| | 18 | ... | - | - | | | | 1.2 | 2.3 |
| 29 | 00 | ... | - | - | | 12 | 3 | 2.9 | 4.3 |
| | 06 | 0,0 | - | - | | | | 1.2 | 2.3 |
| | 12 | 1 | 0.2 | 3.4 | | 18 | 3 | 2.9 | 4.1 |
| | 18 | ... | - | - | | | | 1.2 | 2.3 |
| 30 | 00 | ... | - | - | 05 | 00 | 3 | 2.6 | 4.1 |
| | 06 | 0,0 | - | - | | | | 1.0 | 2.4 |
| | 12 | 0,0 | - | - | | 06 | 3 | 2.9 | 4.0 |
| | 18 | 0,0 | - | - | | | | 1.2 | 2.4 |
| 31 | 00 | 0,0 | - | - | | 12 | 3 | 2.7 | 3.9 |
| | 06 | 0,0 | - | - | | | | 1.4 | 2.2 |
| | 12 | 0,0 | - | - | | 18 | 3 | 2.5 | 3.5 |
| | 18 | 0,0 | - | - | | | | 1.2 | 2.2 |

Contd.. (Bombay)

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|--------|------|-----|---------------------------|------------------------|--------|------|---|---------------------------|------------------------|
| G.M.T. | | | | | G.M.T. | | | | |
| 06 | 00 | 3 | 2.4 | 3.5 | 13 | 00 | 3 | 2.8 | 3.6 |
| | | | 1.1 | 2.9 | | | | 1.1 | 2.4 |
| | 06 | 3 | 2.9 | 3.5 | | 06 | 3 | 2.7 | 4.1 |
| | | | 1.3 | 2.1 | | | | 1.3 | 2.3 |
| | 12 | 3 | 1.9 | 3.5 | | 12 | 3 | 2.3 | 3.2 |
| | | | 1.0 | 2.0 | | | | 1.2 | 2.3 |
| | 18 | ... | - | - | | 18 | 3 | 2.0 | 3.5 |
| | | | | | | | | 1.1 | 2.2 |
| 07 | 00 | ... | - | - | | | | | |
| | 06 | 3 | 2.4 | 3.7 | 14 | 00 | 3 | 2.0 | 2.1 |
| | | | 1.4 | 1.8 | | | | 1.4 | 2.5 |
| | 12 | ... | - | - | | | | 2.0 | 3.9 |
| | 18 | ... | - | - | | 06 | 3 | 2.0 | 3.9 |
| | | | | | | | | 1.4 | 2.4 |
| 08 | 00 | ... | - | - | | | | 2.0 | 3.6 |
| | 06 | 3 | 2.1 | 4.4 | | 12 | 3 | 2.1 | 3.8 |
| | | | 1.1 | 2.2 | | | | 1.2 | 2.5 |
| | 12 | 3 | 2.7 | 4.3 | | | | 2.1 | 3.6 |
| | | | 1.3 | 2.3 | | 18 | 3 | 1.8 | 3.5 |
| | 18 | 3 | 2.5 | 3.9 | | | | 1.2 | 2.3 |
| | | | 1.2 | 2.1 | | | | 1.9 | 3.1 |
| 09 | 00 | 3 | 2.8 | 3.8 | 15 | 00 | 3 | 1.2 | 2.2 |
| | | | 1.3 | 2.2 | | 06 | 3 | 1.2 | 2.5 |
| | 06 | 3 | 3.6 | 3.7 | | 12 | 3 | 1.3 | 2.4 |
| | | | 1.3 | 2.3 | | 18 | 3 | 1.3 | 2.2 |
| | 12 | 3 | 2.9 | 4.2 | | | | | |
| | | | 1.6 | 2.5 | 16 | 00 | 3 | 2.0 | 3.6 |
| | 18 | 3 | 3.0 | 3.9 | | | | 1.2 | 2.0 |
| | | | 1.4 | 2.4 | | 06 | 3 | 2.1 | 3.7 |
| | | | | | | | | 1.1 | 2.0 |
| 10 | 00 | 3 | 2.7 | 3.9 | | 12 | 3 | 2.3 | 3.8 |
| | | | 1.2 | 2.2 | | | | 1.1 | 2.0 |
| | 06 | 3 | 2.9 | 3.8 | | 18 | 3 | 2.5 | 3.7 |
| | | | 1.2 | 2.4 | | | | 1.5 | 2.0 |
| | 12 | 3 | 2.9 | 3.7 | | | | | |
| | | | 1.3 | 2.3 | 17 | 00 | 3 | 2.2 | 3.7 |
| | 18 | 3 | 2.7 | 3.8 | | | | 1.3 | 2.0 |
| | | | 1.2 | 2.0 | | 06 | 3 | 2.4 | 3.8 |
| | | | | | | | | 1.5 | 2.2 |
| 11 | 00 | 3 | 2.9 | 4.2 | | 12 | 3 | 2.0 | 3.6 |
| | | | 1.3 | 2.1 | | | | 1.3 | 2.2 |
| | 06 | 3 | 2.8 | 3.9 | | 18 | 3 | 2.2 | 3.7 |
| | | | 1.1 | 2.2 | | | | 1.1 | 2.0 |
| | 12 | 3 | 2.8 | 3.9 | | | | | |
| | | | 1.3 | 2.3 | 18 | 00 | 3 | 2.4 | 3.5 |
| | 18 | 3 | 3.0 | 3.3 | | | | 1.2 | 2.2 |
| | | | 1.2 | 2.2 | | 06 | 3 | 2.3 | 3.6 |
| | | | | | | | | 1.3 | 1.8 |
| 12 | 00 | 3 | 2.9 | 3.4 | | 12 | 3 | 2.3 | 4.3 |
| | | | 1.3 | 2.0 | | | | 1.3 | 2.3 |
| | 06 | ... | - | - | | 18 | 3 | 2.1 | 2.9 |
| | 12 | ... | - | - | | | | 1.3 | 1.8 |
| | 18 | 3. | 2.5 | 3.6 | | | | | |
| | | | 1.3 | 2.3 | | | | | |

Contd... (Bombay)

August, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|------|------|---|------------------------|---------------------|--------------|------|---|------------------------|---------------------|
| | | | | | August, 1960 | | | | |
| | | | | | G.M.T. | | | | |
| 19 | 00 | 3 | 2.0 | 3.5 | 25 | 00 | 3 | 1.9 | 3.5 |
| | | | 1.2 | 2.0 | | | | 1.0 | 2.0 |
| | 06 | 3 | 2.7 | 3.6 | 25 | 06 | 3 | 1.7 | 3.5 |
| | | | 1.2 | 2.0 | | | | 1.1 | 1.9 |
| | 12 | 3 | 2.1 | 3.8 | 25 | 12 | 3 | 1.6 | 4.0 |
| | | | 1.1 | 2.2 | | | | 0.9 | 2.1 |
| | 18 | 3 | 2.0 | 3.7 | 25 | 18 | 3 | 1.3 | 3.8 |
| | | | 1.2 | 2.2 | | | | 0.5 | 2.0 |
| | | | | | 26 | 00 | 3 | 1.4 | 3.8 |
| 20 | 00 | 3 | 1.7 | 3.8 | | | | 0.6 | 2.0 |
| | | | 0.9 | 2.0 | 26 | 06 | 3 | 1.3 | 3.5 |
| | 06 | 3 | 1.8 | 3.9 | | | | 0.7 | 2.1 |
| | | | 0.8 | 2.1 | 26 | 12 | 3 | 1.5 | 3.7 |
| | 12 | 3 | 1.9 | 3.9 | | | | 0.6 | 2.0 |
| | | | 1.0 | 2.0 | 26 | 18 | 3 | 1.2 | 3.9 |
| | 18 | 3 | 1.5 | 2.8 | | | | 0.6 | 2.1 |
| | | | 1.0 | 2.0 | 27 | 00 | 3 | 1.2 | 3.9 |
| 21 | 00 | 3 | 1.3 | 2.9 | | | | 0.6 | 2.0 |
| | | | 0.4 | 1.6 | 27 | 06 | 3 | 1.4 | 3.9 |
| | 06 | 3 | 2.0 | 4.1 | | | | 0.6 | 2.0 |
| | | | 1.1 | 2.3 | 27 | 12 | 3 | 1.3 | 3.0 |
| | 12 | 3 | 1.5 | 3.4 | | | | 0.5 | 1.9 |
| | | | 1.0 | 2.0 | 27 | 18 | 3 | 1.2 | 3.6 |
| | 18 | 3 | 1.8 | 2.9 | | | | 0.5 | 2.0 |
| | | | 0.8 | 2.0 | 28 | 00 | 3 | 1.2 | 4.1 |
| 22 | 00 | 3 | 1.5 | 3.0 | | | | 0.5 | 1.9 |
| | | | 1.1 | 1.8 | 28 | 06 | 3 | 1.1 | 4.1 |
| | 06 | 3 | 1.7 | 3.2 | | | | 0.4 | 1.8 |
| | | | 1.0 | 2.0 | 28 | 12 | 3 | 1.2 | 3.9 |
| | 12 | 3 | 1.5 | 3.2 | | | | 0.4 | 2.0 |
| | | | 1.0 | 1.9 | 28 | 18 | 3 | 1.0 | 3.7 |
| | 18 | 3 | 1.7 | 2.9 | | | | 0.4 | 2.3 |
| | | | 0.8 | 1.8 | 29 | 00 | 3 | 1.2 | 4.0 |
| 23 | 00 | 3 | 1.7 | 3.1 | | | | 0.5 | 2.6 |
| | | | 0.7 | 1.6 | 29 | 06 | 3 | 1.0 | 4.1 |
| | 06 | 3 | 2.1 | 3.2 | | | | 0.3 | 1.8 |
| | | | 1.1 | 1.7 | 29 | 12 | 3 | 1.1 | 3.9 |
| | 12 | 3 | 2.0 | 3.3 | | | | 0.4 | 2.4 |
| | | | 0.7 | 1.7 | 29 | 18 | 3 | 0.9 | 3.8 |
| | 18 | 3 | 1.7 | 2.9 | | | | 0.4 | 2.0 |
| | | | 0.7 | 1.7 | 30 | 00 | 3 | 1.0 | 4.0 |
| 24 | 00 | 3 | 1.8 | 3.1 | | | | 0.3 | 2.0 |
| | | | 0.8 | 1.8 | 30 | 06 | 3 | 1.0 | 3.9 |
| | 06 | 3 | 2.1 | 3.3 | | | | 0.4 | 2.4 |
| | | | 1.2 | 2.0 | 30 | 12 | 3 | 0.9 | 3.8 |
| | 12 | 3 | 2.0 | 3.5 | | | | 0.4 | 2.0 |
| | | | 0.8 | 2.1 | 30 | 18 | 3 | 0.6 | 3.0 |
| | 18 | 3 | 2.0 | 3.2 | | | | 0.2 | 2.0 |
| | | | 1.0 | 1.9 | | | | | |

Bombay (Contd.)
August, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | |
|------|------|---|---------------------------|------------------------|--------|------|----|---------------------------|------------------------|-----|
| | | | | | G.M.T. | | | | | |
| 31 | 00 | 3 | 0.9 | 3.7 | 07 | 00 | 3 | 1.3 | 5.0 | |
| | | | 0.3 | 2.2 | | 03 | 3 | 1.4 | 5.2 | |
| | 06 | 3 | 0.9 | 3.8 | | 06 | 3 | 1.3 | 4.9 | |
| | | | 0.4 | 2.4 | | 12 | 3 | 1.4 | 5.0 | |
| | 12 | 3 | 0.9 | 3.3 | | | 1 | 0.7 | 2.5 | |
| | | | 0.5 | 2.3 | | 18 | 3 | 1.4 | 5.0 | |
| | 18 | 3 | 1.0 | 3.1 | | | 1 | 0.3 | 2.5 | |
| | | | 0.6 | 2.1 | | 08 | 00 | 3 | 1.3 | 4.8 |
| | | | | | | | 3 | 0.3 | 2.3 | |
| | | | | | | 03 | 3 | 1.2 | 4.6 | |
| | | | | | | | 3 | 0.3 | 2.4 | |
| | | | | | | 06 | 3 | 1.0 | 4.5 | |
| | | | | | | | 3 | 0.4 | 2.4 | |
| | | | | | | 12 | 3 | 1.1 | 4.7 | |
| | | | | | | | 3 | 0.5 | 2.5 | |
| | | | | | | 18 | 3 | 1.2 | 5.1 | |
| | | | | | | | 3 | 0.5 | 2.6 | |
| | | | | | | 09 | 00 | 3 | 1.3 | 4.9 |
| | | | | | | | 3 | 0.4 | 2.6 | |
| | | | | | | 03 | 3 | 1.3 | 4.8 | |
| | | | | | | 06 | 3 | 1.5 | 5.0 | |
| | | | | | | | 3 | 0.5 | 2.4 | |
| | | | | | | 12 | 1 | 1.5 | 4.8 | |
| | | | | | | | 3 | 0.5 | 2.6 | |
| | | | | | | 18 | 1 | 1.7 | 5.0 | |
| | | | | | | 10 | 00 | 1 | 1.5 | 4.8 |
| | | | | | | | 03 | 1 | 1.7 | 5.1 |
| | | | | | | | 06 | 1 | 1.6 | 5.0 |
| | | | | | | | 12 | 1 | 1.6 | 5.0 |
| | | | | | | | 18 | 1 | 1.7 | 5.1 |
| | | | | | | 11 | 00 | 1 | 1.9 | 5.1 |
| | | | | | | | 03 | 3 | 1.9 | 5.1 |
| | | | | | | | 06 | 3 | 1.9 | 5.1 |
| | | | | | | | 12 | 1 | 2.0 | 5.1 |
| | | | | | | | 18 | 1 | 1.7 | 5.1 |
| | | | | | | 12 | 00 | 1 | 1.6 | 5.0 |
| | | | | | | | 03 | 1 | 1.6 | 4.8 |
| | | | | | | | 06 | 1 | 1.6 | 4.9 |
| | | | | | | | 12 | 1 | 1.7 | 4.9 |
| | | | | | | | 18 | 1 | 1.8 | 5.1 |
| | | | | | | 13 | 00 | 1 | 1.8 | 5.2 |
| | | | | | | | 03 | 1 | 1.9 | 5.4 |
| | | | | | | | 06 | 1 | 1.9 | 5.3 |
| | | | | | | | 12 | 1 | 1.9 | 5.4 |
| | | | | | | | 18 | 1 | 1.7 | 5.4 |
| | | | | | | 14 | 00 | 1 | 1.5 | 5.2 |
| | | | | | | | 03 | 1 | 1.6 | 5.4 |
| | | | | | | | 06 | 1 | 1.5 | 5.2 |
| | | | | | | | 12 | 1 | 1.6 | 5.0 |
| | | | | | | | 18 | 1 | 1.3 | 5.0 |

Station: Madras Component: E-W.

| | | | | |
|----|----|-----|-----|-----|
| 01 | 00 | 1 | 1.8 | 5.3 |
| | | 1 | 0.7 | 2.7 |
| | 03 | 1 | 1.8 | 5.3 |
| | | 1 | 0.7 | 2.7 |
| | 06 | 1 | 1.7 | 5.3 |
| | | 1 | 0.7 | 2.7 |
| | 12 | 1 | 1.9 | 5.3 |
| | | 1 | 0.8 | 2.8 |
| | 18 | 1 | 1.8 | 5.2 |
| | | 1 | 0.5 | 2.5 |
| 02 | 00 | 1 | 1.8 | 5.2 |
| | | 1 | 0.6 | 2.7 |
| | 03 | 1 | 1.6 | 5.1 |
| | 06 | 1 | 1.6 | 5.1 |
| | 12 | 1 | 1.9 | 5.3 |
| | 18 | 1 | 2.0 | 5.1 |
| | | 1 | 1.4 | 4.4 |
| 03 | 00 | 1 | 1.9 | 5.1 |
| | | 1 | 1.5 | 4.3 |
| | 03 | 1 | 1.9 | 5.0 |
| | 06 | 1 | 1.9 | 5.1 |
| | 12 | 1 | 1.7 | 5.1 |
| | 18 | 1 | 1.6 | 4.9 |
| 04 | 00 | 1 | 1.5 | 5.0 |
| | 03 | 3 | 1.6 | 4.9 |
| | 06 | 3 | 1.6 | 5.1 |
| | 12 | 3 | 1.5 | 4.7 |
| | 18 | 3 | 1.5 | 4.7 |
| 05 | 00 | 1 | 1.5 | 4.7 |
| | 03 | 3 | 1.4 | 4.9 |
| | 06 | ... | - | - |
| | 12 | 3 | 1.6 | 5.2 |
| | 18 | 3 | 1.6 | 5.4 |
| 06 | 00 | 3 | 1.4 | 5.1 |
| | 03 | 3 | 1.4 | 5.3 |
| | 06 | 3 | 1.5 | 5.0 |
| | 12 | 1 | 1.3 | 5.0 |
| | 18 | 1 | 1.3 | 5.3 |

Madras (Contd.)...

August, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|------|--------|-----|---------------------------|------------------------|------|--------|-----|---------------------------|------------------------|
| | G.M.T. | | | | | G.M.T. | | | |
| 15 | 00 | 1 | 1.3 | 5.0 | 23 | 00 | 3 | 0.7 | 4.5 |
| | 03 | 3 | 1.5 | 4.9 | | | 3 | 0.5 | 2.9 |
| | 06 | 3 | 1.3 | 4.8 | | 03 | 3 | 0.6 | 2.7 |
| | 12 | 3 | 1.3 | 4.8 | | 06 | 3 | 0.5 | 2.5 |
| | 18 | 3 | 1.2 | 4.9 | | 12 | 3 | 0.6 | 2.6 |
| | | | | | | 18 | 1 | 0.7 | 2.9 |
| 16 | 00 | 3 | 1.1 | 4.7 | | | 3 | 0.8 | 4.3 |
| | | 3 | 0.4 | 2.4 | | | | | |
| | 03 | 3 | 0.3 | 2.4 | 24 | 00 | 1 | 0.7 | 2.5 |
| | 06 | 3 | 0.4 | 2.5 | | 03 | 1 | 0.9 | 2.7 |
| | 12 | 3 | 0.7 | 2.6 | | 06 | 1 | 0.7 | 2.6 |
| | | 3 | 0.9 | 4.5 | | 12 | 3 | 0.7 | 2.8 |
| | 18 | 3 | 0.9 | 2.8 | | 18 | 3 | 0.8 | 3.7 |
| | | 3 | 0.9 | 4.4 | | | 3 | 0.5 | 2.8 |
| | | | | | | | 3 | 0.7 | 3.7 |
| 17 | 00 | 3 | 0.5 | 2.9 | | | | | |
| | 03 | 3 | 0.5 | 2.6 | 25 | 00 | 3 | 0.4 | 2.8 |
| | 06 | 3 | 0.5 | 2.4 | | | 3 | 0.7 | 3.7 |
| | 12 | 3 | 0.6 | 2.9 | | 03 | 3 | 0.4 | 2.4 |
| | | 3 | 1.1 | 4.3 | | 06 | 3 | 0.6 | 2.6 |
| | 18 | 3 | 0.5 | 2.7 | | 12 | 3 | 0.6 | 2.7 |
| | | 1 | 1.1 | 4.4 | | 18 | 3 | 0.6 | 2.9 |
| | | | | | | | | | |
| 18 | 00 | 1 | 1.1 | 4.8 | 26 | 00 | 3 | 0.6 | 3.2 |
| | 03 | 1 | 1.1 | 4.5 | | 03 | 3 | 0.5 | 3.1 |
| | 06 | 1 | 1.1 | 4.7 | | 06 | 3 | 0.4 | 2.9 |
| | 12 | 1 | 1.1 | 4.7 | | 12 | 3 | 0.4 | 2.9 |
| | 18 | 1 | 1.1 | 4.6 | | 18 | 3 | 0.5 | 3.7 |
| | | | | | | | | | |
| 19 | 00 | 1 | 1.1 | 4.6 | 27 | 00 | 3 | 0.5 | 3.7 |
| | 03 | ... | - | - | | 03 | 3 | 0.6 | 4.1 |
| | 06 | ... | - | - | | 06 | 3 | 0.5 | 3.9 |
| | 12 | ... | - | - | | 12 | 3 | 0.6 | 4.0 |
| | 18 | ... | - | - | | 18 | 3 | 0.6 | 3.9 |
| | | | | | | | | | |
| 20 | 00 | ... | - | - | 28 | 00 | 3 | 0.6 | 4.1 |
| | 03 | 1 | 1.0 | 4.6 | | 03 | 3 | 0.6 | 4.1 |
| | 06 | 1 | 1.0 | 4.7 | | 06 | 3 | 0.5 | 4.2 |
| | 12 | 1 | 0.9 | 4.7 | | 12 | 3 | 0.6 | 4.1 |
| | 18 | ... | - | - | | 18 | 3 | 0.5 | 4.3 |
| | | | | | | | | | |
| 21 | 00 | ... | - | - | 29 | 00 | ... | - | - |
| | 05 | 3 | 0.8 | 4.3 | | 03 | 3 | 0.4 | 4.0 |
| | 06 | 3 | 0.7 | 4.5 | | 06 | 3 | 0.5 | 4.4 |
| | 12 | 3 | 0.8 | 4.6 | | 12 | 3 | 0.5 | 4.2 |
| | 18 | 3 | 0.7 | 4.4 | | 18 | 3 | 0.6 | 4.4 |
| | | | | | | | | | |
| 22 | 00 | 3 | 0.8 | 4.2 | 30 | 00 | 3 | 0.5 | 4.3 |
| | | 3 | 0.3 | 2.7 | | 03 | 3 | 0.5 | 4.3 |
| | 03 | 3 | 0.9 | 4.4 | | | 3 | 0.3 | 2.6 |
| | | 3 | 0.3 | 2.7 | | 06 | 3 | 0.4 | 4.0 |
| | 06 | 3 | 0.8 | 4.2 | | | 3 | 0.3 | 2.7 |
| | | 3 | 0.4 | 2.6 | | 12 | 3 | 0.5 | 4.2 |
| | 12 | 3 | 0.8 | 4.5 | | | 3 | 0.3 | 2.7 |
| | | 3 | 0.4 | 2.0 | | 18 | 3 | 0.4 | 4.1 |
| | 18 | 3 | 0.9 | 4.5 | | | 3 | 0.2 | 2.4 |
| | | 3 | 0.5 | 2.9 | | | 3 | 0.2 | 1.6 |

Madras (Contd)....

August, 1960

| Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. | Date | Hour | K | Mean amplitude in m.m. | Mean period in sec. |
|-------------------------------------|--------|-----|---------------------------|------------------------|------|--------|-----|---------------------------|------------------------|
| | G.M.T. | | | | | G.M.T. | | | |
| 31 | 00 | 3 | 0.4 | 2.8 | 10 | 00 | 3 | 0.8 | 3.6 |
| | 03 | ... | - | - | | 06 | ... | - | - |
| | 06 | 3 | 0.4 | 2.8 | | 12 | 2 | 0.8 | 3.6 |
| | 12 | 3 | 0.3 | 2.8 | | 15 | 2 | 0.8 | 3.6 |
| | 18 | 3 | 0.4 | 2.7 | 11 | 00 | 2 | 0.8 | 3.6 |
| | | 3 | 0.3 | 1.9 | | 06 | ... | - | - |
| | | | | | | 12 | 2 | 1.2 | 3.5 |
| | | | | | | 18 | 2 | 1.2 | 3.5 |
| Station: Port Blair Component: E-W. | | | | | | | | | |
| 01 | 00 | 3 | 0.4 | 3.9 | 12 | 00 | 2 | 1.2 | 3.5 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.7 | | 12 | 2 | 1.6 | 3.6 |
| | 18 | 3 | 0.4 | 3.7 | | 18 | 2 | 1.6 | 3.5 |
| 02 | 00 | ... | - | - | 13 | 00 | 2 | 1.6 | 3.5 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | 2 | 0.8 | 3.5 |
| | 18 | ... | - | - | | 18 | 2 | 0.8 | 3.6 |
| 03 | 00 | ... | - | - | 14 | 00 | 2 | 0.8 | 3.5 |
| | 06 | 1 | 0.8 | 7.5 | | 06 | ... | - | - |
| | 12 | 1 | 0.8 | 7.5 | | 12 | 3 | 0.4 | 3.3 |
| | 18 | 1 | 0.8 | 7.5 | | 18 | 3 | 0.4 | 3.5 |
| 04 | 00 | 1 | 0.8 | 7.5 | 15 | 00 | 3 | 0.4 | 3.3 |
| | 06 | 1 | 0.8 | 7.5 | | 06 | ... | - | - |
| | 12 | 1 | 0.8 | 7.5 | | 12 | 3 | 0.4 | 3.3 |
| | 18 | 1 | 0.8 | 7.5 | | 18 | 3 | 0.4 | 3.5 |
| 05 | 00 | 1 | 0.8 | 7.5 | 16 | 00 | 3 | 0.4 | 3.4 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 7.5 | | 12 | ... | - | - |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 3 | 0.4 | 3.4 |
| 06 | 00 | 3 | 0.4 | 7.5 | 17 | 00 | 3 | 0.4 | 3.6 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 3.3 |
| 07 | 00 | 0,0 | - | - | 18 | 00 | 3 | 0.4 | 3.4 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 3.5 |
| 08 | 00 | 3 | 0.4 | 3.5 | 19 | 00 | 3 | 0.4 | 3.5 |
| | 06 | 3 | 0.4 | 3.6 | | 06 | ... | - | - |
| | 12 | 3 | 0.8 | 3.6 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.8 | 3.6 | | 18 | 0,0 | - | - |
| 09 | 00 | 3 | 0.8 | 3.6 | 20 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 3 | 0.8 | 3.6 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.8 | 3.5 | | 18 | 0,0 | - | - |

Port Blair (Contd.)....

August, 1960

| Date | Hour | K | Mean amplitude in micron. | Mean period in sec. | Date | Hour G.M.T. | K | Mean amplitude in micron | Mean period in sec. |
|------|------|-----|---------------------------|---------------------|------|-------------|-----|--------------------------|---------------------|
| 21 | 00 | 0,0 | - | - | 27 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.5 | | 18 | 0,0 | - | - |
| 22 | 00 | 3 | 0.4 | 3.5 | 28 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 3.5 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 0.. | - | - |
| | 18 | 3 | 0.4 | 3.5 | | 18 | 0.. | - | - |
| 23 | 00 | 3 | 0.4 | 3.6 | 29 | 00 | 0.. | - | - |
| | 06 | 3 | 0.4 | 3.6 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 3.6 | | 12 | 0.. | - | - |
| | 18 | 3 | 0.8 | 3.6 | | 18 | 0.. | - | - |
| 24 | 00 | 3 | 0.8 | 3.6 | 30 | 00 | 0.. | - | - |
| | 06 | 3 | 0.4 | 3.6 | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.4 | 3.5 | | 18 | 3 | 0.4 | 7.5 |
| 25 | 00 | 3 | 0.4 | 3.5 | 31 | 00 | 3 | 0.4 | 7.5 |
| | 06 | ... | - | - | | 06 | 3 | 0.4 | 7.5 |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 3 | 0.4 | 7.5 |
| | 18 | 3 | 0.4 | 3.6 | | 18 | 3 | 0.4 | 7.5 |
| 26 | 00 | 3 | 0.4 | 3.5 | | | | | |
| | 06 | 0,0 | - | - | | | | | |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

September, 1960



Published under the direction of
- *Shri P.R. Krishna Rao,*
Director General of Observatories

List of Seismograph stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a.s.l. (Metres) | Lithographic Foundation | Instrument | Compt. | Period in secs | Static Magni- fication | Damping ratio | Paper speed mm/min. | | |
|-------------|-----------|-----------|------------------------------|----------------------------|----------------------|---------------|----------------------|------------------------------|------------------|---------------------------|----------|----|
| Agra | | | | | Columbia | E | To=15 | Tg=100 | | 15 | | |
| | | | | | Long Period | N | To=15 | Tg=85 | | 15 | | |
| | | | | | do | Z | To=15 | Tg=70 | | 15 | | |
| Bombay | 18° 54' N | 72° 40' E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 | | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | | |
| | | | | | Sprengnether | E | To=Tg= 7 secs | | 30 | | | |
| Bokaro | 23° 50' N | 85° 48' E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 | | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 | | |
| Calcutta | 22° 32' N | 88° 22' E | (1) 7 | (Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| | | | | | (2) 6 | (Omori-Ewing) | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | Omori-Ewing | N | 16 | 32 | | 25.4 | |
| | | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| Chattr | 25° 50' N | 87° 10' E | 151 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 | | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | | |
| | | | | | Benioff | Z | To=0 | Tg= 0.45 secs. | Critical | 50 | | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | | |
| Colombo | 06° 54' N | 79° 52' E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - | | |
| Dehra Dun | 30° 19' N | 78° 02' E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 50 | | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| Hyderabad | 17° 25' N | 78° 27' E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | | |
| Sodaikanal | 10° 14' N | 77° 28' E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | | |
| Madras | 13° 00' N | 80° 11' E | 15 | | Sprengnether | E | To=Tg=72 secs | | Critical | 30 | | |
| New Delhi | 28° 35' N | 77° 12' E | 207 | Massive Quartzite | | | | | | | | |
| Poon | 18° 32' N | 73° 51' E | 550 | Deccan Trap | Sprengnether | Z | To=Tg=1.5 | | Critical | 30 | | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 | | |
| Fort Blair | 11° 40' N | 92° 43' E | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 30:1 | 30 | | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 30:1 | 30 | | |
| Sohore | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | | |
| | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | | |
| Shillong | 25° 34' N | 91° 53' E | 1500 | Quartzite | Wood-Anderson | N | 0.8 | 1000 | h=0.8 | 30 | | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | | |
| | | | | | Sand stone | Wood-Anderson | N | 12 | 250 | 20:1 | 8 | |
| | | | | | (Shillong) | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | (Quartzite) | Benioff | Z | To=1.0 | Tg=0.18 | | 50 | |
| Tecklai | 28° 45' N | 94° 45' E | | Alluvium | Sprengnether | E | To=Tg= | 6.3 | | 30 | | |
| | | | | | Wenner Accelerograph | ZNE | | | | | | |
| Vizianagram | 18° 07' N | 83° 27' E | | | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | | |

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| Date | Station | Compt, | Phase | G. M. T. h. m. s. | Δ Km. | Remarks |
|-------------------------|--|-----------|--------------------------|-------------------------------------|-----------------|---------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 01 | Chatra | Z | iPg | 02 58 35 | | Very mild, near. |
| 01 | Dehra Dun | NE N | eP iS SS/Sg SSS | 04 33 50 34 25 34 36 34 47 | 310 | Slight. |
| | Chatra | Z | eP | 04 35 15 | | Very feeble, near. |
| | Shillong | Z | eP | 04 36 10 | | Slight. |
| | Poona | Z | eP | 04 36 56 | | Slight, other phases not clear. |
| 01 | Tocklai | E | e | 07 59 19 | | Slight. |
| 01 | Shillong | Z | eP | 08 59 40 | | Slight, distant. |
| 01 | Epc: $16^{\circ}8' S$, $167^{\circ}6' E$, New Hebrides Islands., -H = 09 h. 28 m. 19.5 s., h = 63 Km. (U.S.C.G.S) Magnitude : 6 (Pas). | | | | | |
| | Shillong | ZNE NE | eP SKS | 09 40 51 51 19 | 3700 | Slight. |
| | Kodaikanal | E | e | 09 51 34 | | Tremor. |
| | Chatra | NE | eS | 09 51 45 | | |
| | Bokaro | NE | e | 09 51 46 | | Probably S of a tele-seism. |
| | Calcutta | E | e | 09 51 46 | | Slight. |
| | Colombo | E | e | 09 51 50 | | |
| | Madras | E | e | 09 51 51 | | Presumably surface waves. |
| | Dehra Dun | NE | e | 09 52 34 | | Feeble. |
| | Bombay | E NE | eSKS e | 09 52 39 53 35 | | Slight. |
| 01 | Vizianagram | E | eP | 10 09 26 | | Slight, local. |
| 01 | Epc: $16.5^{\circ} S$, $167.6^{\circ} E$, New Hebrides Islands., -H = 10 h. 35 m. 01.1 s., h = 27 Km. (USCGS). Mag. = 6 (Pas). | | | | | |
| | Shillong | Z | iP | 10 47 40 | | Slight, distant, rarefaction. |
| | Dehra Dun | NE | eSKS | 10 58 20 | | Feeble. |
| | Calcutta | E | eSKS | 10 58 28 | | Slight. |
| | Colombo | E | e | 10 58 35 | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|-------------------------|--|--------|-------|----------------------|----------|-----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 01 | Madras | E | e | 10 58 41 | | Presumably surfacw waves. |
| | Kodaikanal | E | e | 10 58 52 | | Tremor. |
| 01 | Shillong | Z | eP | 11 27 34 | | Slight, distant. |
| 01 | Shillong | Z | eP | 13 31 08 | | Slight, near. |
| 01 | Epc: 56° 1' N, 153° 7' W, Kodiak Island, Alaska., -H = 15 h. 37 m. 14.4 s. (U.S.C.G.S) -h = 24 Km., Mag. : 6-6½ (Pas). | | | | | |
| | Shillong | ZNE | iP | 15 49 32 | 9110 | Slight, compression. |
| | | NE | e | 16 00 00 | | |
| | Chatra | Z | iP | 15 49 40 | | Slight, to moderate. |
| | | NE | e | 49 51 | | |
| | Dehra Dun | NE | eP | 15 49 46 | 9180 | Slight. |
| | | N | PP | 52 39 | | |
| | | | iS | 16 00 03 | | |
| | | | SS | 05 38 | | |
| | | | SSS | 08 46 | | |
| | | | LQ | 12 13 | | |
| | | | M | 22 29 | | |
| | Bokaro | NE | eP | 15 49 46 | 9640 | Moderate, other phases not clear, |
| | | N | eS | 16 00 22 | | Period = 26 Secs. |
| | | | M | 22 35 | | Gr. dis: = 9 μ |
| | Hyderabad | NE | e | 15 50 33 | | Moderate. |
| | | | iS | 16 01 09 | | |
| | | E | PS | 03 24 | | |
| | | | LR | 18 45 | | |
| | | | M | 27 22 | | Period = 16 secs. |
| | | N | M | 28 36 | | Gr. dis: = 10 μ |
| | | | | | | Period = 14 secs. |
| | | | | | | Gr. dis: = 9 μ |
| | Bombay | N | e | 15 54 28 | | |
| | | NE | e | 16 01 15 | | |
| | | E | M | 38 45 | | Period = 15 secs. |
| | | N | M | 39 41 | | Gr. dis: = 3 μ |
| | | | | | | Period = 15 secs. |
| | | | | | | Gr. dis: = 3 μ |
| | Calcutta | E | e | 16 00 29 | | Slight. |
| | Kodaikanal | E | e | 16 29 36 | | Tremor. |
| 01 | Colombo | E | e | 16 30 20 | | |
| | Shillong | Z | iP | 17 37 39 | | Slight, distant, compression. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ km. | Remarks |
|-------------------------|---|--------------------|---|--|-----------------|--|
| <u>September, 1960.</u> | | | | | | |
| 01 | Shillong | Z | eP Sg | 22 16 30 16 48 | 140 | Slight. |
| 02 | Shillong | Z | iP S | 11 04 38 05 09 | 270 | Slight, compression. |
| 02 | Shillong | Z | i | 11 27 47 | | Feeble, distant, compression. |
| 02 | Epc: 30°5N, 97° E, Sikang, China, -H = 13 h. 46 m. 02 s. (Shillong) Epc: 28.7°N, 49.3°E, Tibet., -H = 13 h. 46 m. 10 s., -h = 48 Kms. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | iP PP iS | 13 47 17 47 23 48 08 | 480 | Slight, initial ground motion East. |
| | Shillong | ZNE NE | iP PP PPP P* Pg iS SS S* Sg | 13 47 45 47 52 47 59 48 05 48 15 48 55 49 05 49 17 49 35 | 640 | Moderate, rarefaction, initial ground motion towards North and East. |
| | Chatra | Z N | eP eS | 13 48 33 50 25 | 1090 | Moderate. |
| | Calcutta | NE | iP PPP iS LR M | 13 48 45 49 05 50 39 51 15 52 05 | 1110 | Moderate, Initial ground movement towards West. |
| | Bokaro | NE E | iP PPP LQ iS SS SSS/LR M | 13 49 02 49 21 51 15 51 22 51 29 51 47 52 57 | 1380 | Slight, Initial ground movement towards North and East. |
| | Vizianagram | NE | iP i | 13 50 09 53 33 | | Slight, distant. |
| | Dehra Dun | NE N | eP iS SS SSS M | 13 50 21 53 36 53 55 54 15 55 50 | 1960 | Slight. |
| | Hyderabad | NE N NE N | iP PP iS LQ | 13 50 57 51 30 54 52 55 24 | 2400 | Moderate. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ km. | Remarks |
|-------------------------|---------------------|--------|--|--|----------|---|
| <u>September, 1960.</u> | | | | | | |
| 02 | Hyderabad contd. | N | SS LR | 13 55 27 36 19 | | |
| | | E | LR | 56 20 | | |
| | | N | M | 57 48 | | Period = 9 secs. Gr. dis.: = 7 μ |
| | | E | M | 57 57 | | Period = 9 secs. Gr. dis = 8 μ |
| | Sehore | NE | eP i e | 13 50 58 54 56 57 28 | | Slight. |
| | Madras | E | eP i PP PPP iS LQ e ER M | 13 51 14 51 38 51 46 52 01 55 31 56 13 56 24 57 20 59 34 | 2700 | Moderate. |
| | Poona | Z N | iP iS LQ | 13 51 28 55 53 56 56 | 2830 | Moderate. |
| | Bombay | NE | eP e e | 13 51 37 56 02 56 13 | | Slight. |
| | Kodaikanal | E | e | 13 55 49 | | Tremor. |
| | Colombo | E | e | 13 56 49 | | |
| 02 | Vizianagram | NE | eP | 18 00 59 | | Tremor. |
| 02 | Shillong | Z | iP | 18 31 36 | | Slight, distant, compression. |
| 02 | Chatra | Z | iP | 18 47 14 | | Very feeble, distant. |
| 02 | Shillong | Z | eP Sg | 19 51 54 52 21 | 200 | Slight. |
| 02 | Sehore | NE | iP iS | 20 43 38 44 34 | 520 | Slight, near. |
| 02 | Shillong | Z | iP Sg | 20 58 50 59 17 | 200 | Slight, compression. |
| | Tocklai | E | eP | 20 59 07 | | Feeble. |
| | Chatra | NE | P? | 21 00 48 | | |
| 02 | Tocklai | E | eP i i | 21 30 41 30 56 31 07 | | Slight, near. |
| | Shillong | Z | iP Sg | 21 31 10 31 32 | 170 | Slight, compression. |

| Date | Time | Compt. | Phase | G. M. T. h. m. s. | Δ km. | Remarks |
|-------------------------|----------|------------|--------------------|-------------------------------------|--|---|
| <u>September, 1960.</u> | | | | | | |
| 02 | 22 02 00 | | | | | Epic: 52.0° N, 171.4° W, Fox Island, Aleutian Islands., -H = 22 h. 02 m. 48.9 s., -h = 49 Kms., (U.S.C.G.S) Mag.: = 5 $\frac{1}{4}$ -6 (Pas). |
| | | Tocklai | E | eP | 22 14 14 | Feeble, distant. |
| | | Shillong | Z | 1P | 22 14 27 | Slight, distant, compression. |
| | | Chatra | Z | 1P | 22 14 33 | Slight, to moderate. |
| | | | E | e | 24 36 | |
| | | Bokaro | NE | 1P 1S | 22 14 53 24 49 | 8670 Moderate, other phases unidentifiable, Initial ground motion towards South and East. |
| | | Hyderabad | NE E NE N | 1P PP i SeS M | 22 15 36 19 04 26 00 26 17 50 23 | Moderate, Initial ground motion towards South and West. |
| | | | E | M | 50 45 | Period = 15 secs. Gr. dis.: = 9 μ |
| | | Poona | Z N | 1P SKKS ₁ 1S PS | 22 15 46 26 13 26 28 27 54 | 9780 Slight. Period = 18 secs. Gr. dis.: = 12 μ |
| | | Bombay | N | eP e M | 22 15 48 26 29 58 23 | Slight. Period = 20 secs. Gr. dis.: = 8 μ |
| | | | E | M | 59 26 | Period = 18 secs. Gr. dis.: = 6 μ |
| | | Colombo | E | e e | 22 28 18 49 18 | |
| | | Kodaikanal | E | e | 22 52 18 | Tremor. |
| 03 | 00 07 55 | Chatra | Z | eP | | Very feeble, distant. |
| 03 | 00 27 43 | Shillong | Z | eP | | Slight. |
| 03 | 11 12 26 | Shillong | Z | i | | Slight, very distant rarefaction. |
| 03 | 12 51 48 | Tocklai | E | eP | | (U.S.C.G.S) Slight, distant. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|--|---------------------------------------|---|--|-----------------|----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 03 | Shillong contd. | ZNE NE | eP e iS e e e e | 12 51 52 52 37 13 00 20 00 36 00 46 04 36 07 02 | 7700 | |
| | Chatra | Z E Z NE E NE E | 1P PcP PP SKS iS e e e | 12 52 22 52 47 54 54 13 01 10 01 13 01 35 01 46 02 05 | 8170 | |
| | Bokaro | NE | eP eS | 12 52 28 13 01 20 | 8200 | |
| | Madras | E | 1P iS e e | 12 52 42 13 01 49 02 18 02 26 | 8510 | Initial ground movement West. |
| | Dehra Dun | NE | eP iS | 12 53 10 13 02 44 | 9110 | |
| | Poona | Z N | 1P iS e e | 12 53 17 13 02 57 03 16 07 53 | 9240 | |
| | Kodaikanal | E | e | 12 54 39 | | Tremor. |
| | Port Blair | N | i | 12 59 30 | | Slight. |
| | Colombo | E | e | 13 01 45 | | |
| | Hyderabad | E | e | 13 02 18 | | |
| | Bombay | NE | e e | 13 03 10 05 55 | | Very Deep. |
| 03 | Shillong | Z | 1P | 13 30 57 | | Slight, distant, compression. |
| 03 | Shillong | Z | e | 13 15 45 | | Feeble, distant. |
| 03 | Epc: 23 ^h 28 ^m 00 ^s , Nepal, -H= 19 h. 40 m. 00 s. (Shillong). | | | | | |
| | Felt at Shillong (II) | | | | | |
| | Chatra | Z | 1P P* Pg PPP NE iS | 19 40 45 40 48 40 53 40 58 41 17 | 280 | Moderate. |
| | Bokaro | NE | eP eS | 19 41 26 42 26 | 570 | Slight. |
| | Dehra Dun | NE | eP iS | 19 41 38 42 42 | 610 | Feeble. |
| | Shillong | ZNE NE | 1P iS | 19 41 39 42 57 | 750 | Slight, compression. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|---|--------------|-----------------|-------------------------------|-----------------|---|
| <u>September, 1960.</u> | | | | | | |
| 03 | Calcutta contd. | NE | eS SSS e | 19 42 48 43 15 43 56 | 690 | Slight. |
| | Poona | Z N | eP e | 19 43 16 47 54 | 1500 | Slight. |
| | Madras | E | eS e | 19 46 30 49 19 | | Feeble. |
| | Bombay | NE | e e | 19 47 35 49 24 | | Tremor. |
| 03 | Shillong | Z | eP | 20 33 16 | | Slight, distant. |
| 03 | Shillong | Z | iP | 22 44 12 | | Slight, distant, compression. |
| | Chatra | Z | eP | 22 44 26 | | Very mild, distant. |
| 03 | Chatra | Z | eP | 23 16 21 | | Very feeble, distant. |
| | Shillong | Z | iP | 23 16 59 | | Slight, distant, compression. |
| 03 | Kodalkanal | E | e | 23 55 08 | | Tremor. |
| 03/04 | Epicentre: 44.6 N, 143.1 E, Kurile Islands, -H = 23 km, 48 m, 35.9 s., -h = 27 Km., (U.S.C.G.S.) Magnitude = 0.4 (Fas). | | | | | |
| | Shillong (4.9.60) | ZNE NE | iP iS | 23 55 14 00 02 21 | 5490 | |
| | Chatra (4.9.60) | Z NE | eP eS | 23 55 39 00 03 02 | 5280 | |
| | Bekare (4.9.60) | NE | iP | 23 56 01 | 6120 | Initial ground motion towards South and West. |
| | Dehra Dun (4.9.60) | NE | eP iS | 23 56 03 00 03 58 | 6340 | Slight. |
| | Madras (4.9.60) | E | eP PPP eS | 23 57 17 59 43 00 06 04 | 7330 | |
| | Poona (4.9.60) | Z N | iP i | 23 57 19 00 06 28 | | |
| | Bombay (4.9.60) | NE E N | eP eS M | 23 57 24 00 06 16 30 05 | 7430 | Slight. Period= 13 secs. Gr. dis.= 2 μ Period= 15 secs. Gr. dis.= 6 μ |
| | | | M | 30 18 | | |
| 04 | Hyderabad | N E | M M | 00 21 00 21 39 | | Period= 12 secs. Gr. dis.= 4 μ Period= 14 secs. Gr. dis.= 3 μ |

| Date | Station | Compt | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|--|-------|-----------------|----------------------------|-----------------|---|
| <u>September, 1960.</u> | | | | | | |
| 04 | Shillong | Z | eP eS | 07 08 09 08 30 | 780 | Slight. |
| | Tocklai | E | e | 07 09 09 | | Feeble. |
| 04 | Shillong | Z | e | 08 08 07 | | Very feeble. |
| 04 | Shillong | Z | e | 17 14 11 | | Feeble. |
| 04 | Shillong | Z | eP eS | 17 18 09 19 05 | 500 | Slight. |
| 04 | Chatra | Z | eP | 19 29 02 | | Feeble, probably distant. |
| 05 | Shillong | Z | eP | 01 31 08 | | Slight. |
| 05 | Dehra Dun | NE | e i | 04 38 32 40 04 | | Feeble. |
| | Chatra | Z | iP | 04 40 17 | | Very feeble. |
| | Shillong | Z | iP | 04 41 01 | | |
| 05 | Chatra | Z | iP | 04 43 21 | | Very feeble. |
| 05 | Shillong | Z | eP Sg | 07 08 50 09 18 | 200 | Slight. |
| 05 | Shillong | Z | eP Sg | 09 43 29 44 09 | 290 | Slight. |
| 05 | Shillong | Z | iP | 15 03 30 | | Slight, local. |
| 05 | Shillong | Z | e | 16 24 06 | | Very feeble, distant. |
| 05 | Epc: 24.5° N, 95.0° E, India Burma Border. -H = 18 h. 09 m. 40 s. (Shillong). | | | | | |
| | Tocklai | E | iP PPP Sg | 18 10 13 10 23 10 30 | 250 | Slight, initial ground motion towards East. |
| | Shillong | Z | eP Sg | 18 10 22 10 55 | 290 | Slight. |
| | Chatra | Z | eP | 18 11 22 | | Very mild, probably Near. |
| 05 | Chatra | Z | P | 19 29 05 | | Very mild, near. |
| 05 | Shillong | Z | e | 20 16 09 | | Very feeble, distant. |
| 05 | Chatra | Z | P | 20 33 51 | | Feeble, distant. |
| 06 | Shillong | ZE | iP | 02 44 12 | | Slight, compression. |
| | Tocklai | E | ePg Sg | 02 44 46 44 21 | 40 | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|-------------|---------|-----------|----------------------|-----------------|--|
| <u>September, 1960.</u> | | | | | | |
| 06 | Chatra | Z | iP | 02 45 11 | 710 | Mild, near. |
| contd. | | N | eS? | 46 25 | | |
| 06 | Shillong | Z | e | 07 35 01 | | Tremor. |
| 06 | Shillong | Z | eP | 07 36 42 | | Tremor. |
| 06 | Shillong | Z | iP | 14 15 47 | | Slight, distant, Compression. |
| | Chatra | Z | iP | 14 16 09 | | Very feeble, distant. |
| 06 | Shillong | Z | iP | 14 29 47 | | Slight, local compression. |
| 06 | Shillong | Z | iP | 15 32 46 | | Slight, distant, compression. |
| | Chatra | Z NE | iP eS | 15 33 10 40 00 | 5190 | Slight. |
| | Poona | Z | iP | 15 34 56 | | Tremor. |
| 06 | Vizianagram | NE | eP | 18 00 59 | | Tremor, Slight. |
| 06 | Shillong | Z | eP | 20 43 48 | | Slight, near. |
| 07 | Shillong | Z | eP iSg | 00 53 30 53 55 | 190 | Slight. |
| 07 | Hyderabad | E | M | 02 11 13 | | Period = 21 secs. Gr. dis.: = 8 μ |
| 07 | Shillong | Z | iP | 03 57 40 | | Slight, distant, compression. |
| | Chatra | Z | e | 03 58 15 | | Feeble. |
| 07 | Shillong | Z | iP Sg | 10 45 27 49 48 | 170 | Slight, rarefaction. |
| 07 | Shillong | Z | iP | 11 53 43 | | Slight, distant, compression. |
| | Chatra | Z | eP | 11 54 05 | | Feeble, distant. |
| 07 | Shillong | Z | eP | 21 44 41 | | Slight, distant. |
| | Tocklai | E | eP | 21 44 47 | | Slight, distant. |
| 07 | Chatra | Z | iPg Sg | 22 01 45 51 56 | 90 | Very mild. |
| 08 | Shillong | Z | iPg Sg | 09 14 29 14 34 | 40 | Slight. |

Epc: 6.2 N, 126.2 E, Near East Coast of Mindanao, P.I.
 -H = 11 h. 07 m. 40.8 s. (U.S.C.G.S.)
 -h = 47 Km.

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|---|---------|--|--|-----------------|---------------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 08 | Shillong contd. | ZE E | iP iS | 11 15 05 20 30 | 4120 | Slight. |
| | Port Blair | E | i | 11 15 16 | | Slight. |
| | Chatra | Z | iP i | 11 15 53 21 06 | | Feeble, distant. |
| | Bokaro | E | e i i | 11 15 37 17 21 21 50 | | |
| | Colombo | E | e e | 11 15 41 23 20 | | |
| | Tocklai | E | e | 11 15 49 | | Slight, distant. |
| | Madras | E | e e | 11 16 03 22 42 | | Slight, presumably surface wave. |
| | Dehra Dun | NE | e e | 11 16 47 23 56 | | Feeble. |
| | Poona | Z | iP | 11 16 51 | | Slight, other phases not clear. |
| | Calcutta | E | e? e | 11 17 03 21 18 | | Slight. |
| | Bombay | E | e | 11 17 40 | | |
| | Hyderabad | NE | e | 11 23 11 | | |
| 08 | Shillong | Z | iP | 14 41 45 | | Slight, distant, compression. |
| | Chatra | Z | iP | 14 41 52 | | Very feeble, distant. |
| 08 | Shillong | Z | eP | 17 09 29 | | Slight, distant. |
| 08 | Port Blair | E | iPg iSg | 18 56 04 56 13 | 70 | Slight. |
| 08 | Shillong | Z | iP | 23 21 34 | | Slight, distant, compression. |
| | Chatra | Z | eP | 23 21 47 | | Very mild, distant. |
| 09 | Hyderabad | N | e | 04 13 21 | | Period= 18 secs. Gr. dis:= 8 μ |
| 09 | Epc: 36.4 N, 71.6 E, Hindu Kush, -H = 10 h. 05 m. 21.9 s., -h = 236 Km. (U.S.C.G.S.) | | | | | |
| | Dehra Dun | NE N | eP PP iS SSS, LR SSS Sg/M | 10 07 21 07 30 07 35 08 50 09 02 09 13 09 39 | 890 | Slight. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|-------------------------|--|--------------|--------------------------|--|----------|--|
| <u>September, 1960.</u> | | | | | | |
| 09 | Chatra contd. | Z | eP i | 10 09 04 09 06 | 1820 | Feeble. |
| | | N | eS | 11 58 | | |
| | Shillong | Z | eP | 10 09 49 | | Slight, distant. |
| | Madras | E | e | 10 15 15 | | Feeble, presumably surface waves. |
| | Poona | Z | i | 10 29 23 | | Slight, other phases not clear. |
| 09 | Chatra | Z | eP | 16 29 56 | | Very feeble. |
| 09 | Shillong | Z | eP | 16 55 41 | | Slight, distant. |
| 09 | Shillong | Z | eP | 18 01 13 | | Slight, distant. |
| 09 | Shillong | Z | eP Sg | 19 54 32 54 57 | 190 | Slight. |
| | Dehra Dun | NE | e i i | 19 58 54 59 45 59 55 | | Feeble. |
| | Chatra | Z | e e | 20 00 02 02 57 | | Very feeble. |
| 09 | Shillong | Z | eP | 20 01 01 | | Slight, distant. |
| 10 | Chatra | Z | iP | 00 28 23 | | Very feeble, distant. |
| | Shillong | Z | eP | 00 28 54 | | Slight, distant. |
| 10 | Shillong | Z | eP | 07 50 32 | | Slight, near. |
| 10 | Shillong | Z | eP Sg | 09 04 30 04 40 | 100 | Slight. |
| 10 | Epc 4.0 N, 122.6 E, Celebes Sea, -H= 10 h. 44 m. 51.2 s., (U.S.C.G.S.) -h= 629 Km. | | | | | |
| | Port Blair | E | eP iS M | 10 50 19 54 39 57 38 | 3540 | Slight. |
| | Tocklai | E | iP iS | 10 51 02 55 58 | 3940 | Slight, initial ground motion East. |
| | Shillong | ZNE NE | iP iS | 10 51 11 53 11 | 4030 | Slight, rarefaction, initial ground motion South and East. |
| | Bokaro | NE N E | iP sP e i iS | 10 51 44 52 36 53 29 56 01 57 12 | 4520 | Moderate, Direction of the initial ground motion South and East. |
| | | N E | e e | 58 12 11 00 42 | | |

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|------|------------------|--------|-------|-------------------------|-----------------|---|
| 10 | | | | <u>September, 1960.</u> | | |
| 10 | Chatra contd. | ZNE | iP | 10 51 45 | 4630 | Slight. |
| | | E | e | 52 14 | | |
| | | NE | iS | 57 15 | | |
| | | N | e | 58 01 | | |
| | Madras | E | iP | 10 52 02 | 4780 | Moderate. |
| | | | i | 52 06 | | |
| | | | e | 52 13 | | |
| | | | PP | 53 55 | | |
| | | | ScP | 57 39 | | |
| | | | iS | 57 45 | | |
| | | | e | 58 10 | | |
| | | | LQ | 11 00 45 | | |
| | | | LR | 02 27 | | |
| | Colombo | E | eP | 10 52 03 | 4590 | |
| | | | S | 11 23 20 | | |
| | | | M | 36 20 | | Amp: = 0.1 m.m. |
| | Hyderabad | E | iP | 10 52 20 | 5040 | Moderate, initial ground movement towards East. |
| | | | e | 54 09 | | |
| | | | e | 54 24 | | |
| | | NE | iS | 58 18 | | |
| | | E | e | 11 01 09 | | |
| | | NE | SS | 02 00 | | |
| | | E | LR | 02 42 | | |
| | | N | M | 03 54 | | Period = 15 secs. Gr. dis = 6 μ |
| | | E | M | 04 00 | | Period = 15 secs. Gr. dis = 4 μ |
| | Calcutta | E | iP | 10 52 22 | | Slight, initial ground motion towards East. |
| | | | i | 56 36 | | |
| | | | i | 11 00 16 | | |
| | Kodaikanal | E | e | 10 52 22 | | Tremor. |
| | Poona | Z | iP | 10 52 54 | 5530 | Slight. |
| | | | PP | 54 38 | | |
| | | N | iS | 59 19 | | |
| | | Z | e | 59 30 | | |
| | | E | e | 11 03 13 | | |
| | Dehra Dun | NE | eP | 10 52 55 | 5520 | Slight. |
| | | N | pP | 54 32 | | |
| | | | e | 55 13 | | |
| | | | iS | 59 19 | | |
| | | | e | 12 01 39 | | |
| | | | sS | 02 38 | | |
| | | | e | 04 39 | | |
| | | | e | 08 33 | | |
| | Bombay | E | eP | 10 53 00 | 5590 | Slight. |
| | | | pP | 54 51 | | |
| | | | e | 55 43 | | |
| | | | eS | 59 28 | | |
| | | | sS | 11 03 00 | | |

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| <u>September, 1960.</u> | | | | | | |
| 10 | Shillong | ZNE | iP | 12 07 09 | | Slight, felt locally. |
| | Chatra | Z | eP eS | 12 08 23 09 10 | 430 | Mild. |
| 10 | Chatra | Z ZN | iP S | 15 15 41 16 02 | 170 | Mild. |
| 10 | Epc: 6.6 N, 93.8 E, Nicobar Islands., -H \pm 15 h. 45 m. 22.6 s., -h = 29 Kms. (U.S.C.G.S.) | | | | | |
| | Port Blair | N | eP iS | 15 46 40 47 42 | 590 | Slight. |
| | Madras | E | e e | 15 49 08 49 46 | | Feeble. |
| | Shillong | Z | eP | 15 49 40 | | Slight, distant. |
| | Chatra | Z | iP | 15 50 09 | | Feeble, distant. |
| | Poona | Z | eP | 15 50 38 | | Tremor. |
| | Dehra Dun | NE | e eS | 15 52 23 55 58 | | Feeble. |
| | Bokaro | NE | i | 15 53 14 | | |
| 11 | Shillong | Z | iP Sg | 18 38 09 38 47 | 270 | Feeble, compression. |
| 11 | Shillong | Z | eP Sg | 20 14 53 15 24 | 210 | Slight. |
| 12 | Shillong | Z | iP | 02 56 27 | | Slight, distant, compression. |
| | Chatra | Z | iP | 02 56 35 | | Very feeble, distant. |
| 12 | Epc: 27.3 N, 128.4 E, Ryukyu Island., -H = 12 h. 17 m. 08.1 s., -h = 48 Km. (U.S.C.G.S.) Mag.: $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas). | | | | | |
| | Shillong | ZE NE | iP iS | 12 23 40 28 54 | 3590 | Compression. |
| | Dehra Dun | NE | eP iS | 12 25 16 31 42 | 4780 | Slight, phases not clear. |
| | Madras | E | i | 12 25 44 | | Feeble. |
| | Poona | Z | i | 12 26 07 | | Slight, other phases not clear. |
| | Calcutta | E | e? | 12 30 04 | | Slight. |
| | Shillong | Z | iP | 14 48 58 | | Slight, local. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|------------|--------|-------|----------------------|-----------------|----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 12 | Shillong | Z | iP | 14 51 20 | | Slight, distant, compression. |
| 12 | Chatra | Z | iP | 15 12 24 | | Feeble, distant. |
| 12 | Shillong | Z | iP | 16 08 59 | | Slight, distant, compression. |
| | Chatra | Z | iP | 16 09 29 | 4120 | Feeble. |
| | | NE | S | 15 17 | | |
| 12 | Dehra Dun | NE | e | 16 17 11 | | Feeble. |
| | | | e | 19 16 | | |
| | Chatra | Z | iP | 22 43 40 | | Very feeble, distant. |
| 12 | Calcutta | E | e? | 25 25 26 | | Slight. |
| | | | e | 25 38 | | |
| | | | i | 26 36 | | |
| | | | i | 26 53 | | |
| | Chatra | Z | iP | 23 25 50 | | Feeble, distant. |
| 13 | Dehra Dun | NE | e | 02 25 42 | | Feeble. |
| | | | i | 27 06 | | |
| | Chatra | Z | eP | 02 27 37 | | Very feeble. |
| | | | e | 29 57 | | |
| | Poona | Z | eP | 02 29 06 | | Feeble. |
| 13 | Chatra | Z | iP | 03 17 16 | | Feeble, distant. |
| | Poona | Z | iP | 03 18 44 | | Tremor. |
| 14 | Chatra | Z | eP | 00 41 10 | | Feeble, distant. |
| | Dehra Dun | NE | e | 00 42 27 | | Feeble. |
| | | | e | 48 42 | | |
| | Poona | Z | iP | 00 42 49 | | Slight. |
| 14 | Chatra | Z | eP | 11 53 03 | | Mild. |
| 14 | Chatra | Z | eP | 13 04 32 | | Very feeble. |
| 14 | Chatra | Z | eP | 16 05 57 | | Mild. |
| | | | e? | 10 37 | | |
| 14 | Port Blair | N | iPg | 17 24 08 | 60 | Slight. |
| | | | iSg | 24 15 | | |
| | Chatra | Z | eP | 17 27 42 | | Very feeble. |
| | | | e? | 30 12 | | |
| 15 | Chatra | Z | eP | 05 07 27 | | Very feeble, distant. |

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| 15 | Chatra | Z | iP | 07 47 44 | | Feeble, distant. |
| 15 | Dehra Dun | NE | e | 07 55 44 | | Tremor. |
| 15 | Dehra Dun | NE | e | 09 17 00 | | Tremor. |
| 15 | Epc: 21.4 N, 142.9 E, Volcano Islands Region., -H = 17 h. 57 m. 42.7 s., -h = 361 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 18 05 42 | | Slight, distant, compression. |
| | Chatra | Z | iP | 18 06 12 | | Feeble, distant. |
| | Dehra Dun | NE | eP eS | 18 07 06 14 44 | 6530 | Feeble. |
| | Madras | E | eP e e | 18 07 19 09 13 10 42 | | Feeble. |
| | Poona | Z | iP | 18 07 46 | | Slight. |
| 15 | Chatra | Z | iP S | 19 59 14 59 56 | 380 | Mild. |
| 16 | Epc: 38.5 N, 68.7 E, Iadzhik S.S.R. -H = 01 h. 39 m. 03.3 s., -h = 88 Kms. (U.S.C.G.S.) | | | | | |
| | Dehra Dun | NE | e e | 01 41 43 42 37 | | Feeble. |
| | Chatra | Z | eP | 01 43 18 | | Slight, distant. |
| | Poona | Z | eP | 01 43 55 | | Slight. |
| | Shillong | Z | eP | 01 44 08 | | Slight |
| 16 | Shillong | Z | eP | 08 26 16 | | Slight, distant. |
| 16 | Shillong | Z | ep Sg | 12 19 24 19 44 | 150 | Slight. |
| 16 | Shillong | Z | eP | 14 22 06 | | Slight, distant. |
| 16 | Shillong | Z | eP Sg | 20 30 31 30 51 | 150 | Slight. |
| 16 | Dehra Dun | NE | e | 23 23 40 | | Tremor. |
| | Chatra | Z | iP | 23 24 02 | | Very feeble, distant. |
| | Shillong | Z | iP | 23 24 51 | | Slight, distant, compression. |
| 17 | Epc: 49.3 N, 155.4 E, Kurile Islands., -H = 07 h. 52 m. 50.8 s., -h = 35 Km. (U.S.C.G.S.) | | | | | |

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| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks |
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|----|--------------------|---------|--|--|------|---|
| 17 | Shillong contd. | ZNE | iP | 08 02 15 | | Slight, distant, compression. |
| | Chatra | Z | iP | 08 02 33 | | Slight, distant. |
| | Port Blair | N | iP i | 08 03 18 16 04 | | Slight. |
| | Hyderabad | N | iP eS e e e e LR e M | 08 03 56 12 53 13 40 15 53 14 14 16 35 25 32 27 03 29 35 | 7520 | Slight, initial ground motion towards South. Period= 18 secs. Gr.dis.:= 8 μ |
| | Poona | Z | iP | 08 04 07 | | Slight. |
| | Bombay | N NE | eP eS | 08 04 17 13 28 | 7890 | Slight. |
| | Bokaro | NE | eS i | 08 11 04 13 04 | | Moderate. |

17 Epc: 49.4 N, 155.2 E, Kurile, Islands.,
 -H= 08 h. 05 m. 29.5 s., -h = 28 Kms. (USS.C.G.S.)
 Mag : 6 (Pas).

| | | | | | | |
|--|-----------|--------------|-----------------------------|---|------|--|
| | Shillong | Z | iP | 08 14 55 | | Slight, distant, compression. |
| | Chatra | Z NE | iP eS | 08 15 14 23 01 | 6210 | |
| | Bokaro | NE | iP i | 08 15 28 25 44 | | |
| | Dehra Dun | NE | e i iS i i i | 08 15 49 19 49 23 51 27 51 29 57 38 12 | 6660 | Other phases not clear. |
| | Poona | Z N | iP iS PS M | 08 16 48 26 03 26 21 44 54 | 7870 | |
| | Bombay | NE N E | eP eS M M | 08 16 51 26 07 45 20 50 30 | 7890 | Period= 19 secs. Gr. dis:= 6 μ Period= 19 secs. Gr. dis:= 5 μ |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks |
|-------------------------|--|-------------|---|--|-----------------|----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 17 | Madras contd. | E | e eS | 08 17 48 25 59 | | Moderate. |
| | Colombo | E | e M | 08 26 55 55 36 | | Amp. : = 0.2 |
| 17 | Shillong | Z | i | 13 03 59 | | Slight, distant, compression. |
| 17 | Shillong | Z | iP | 13 09 48 | | Slight, distant, compression. |
| | Chatra | Z | eP | 13 10 17 | | Feeble, distant. |
| 17 | Shillong | Z | e | 16 05 06 | | Feeble, distant. |
| 17 | Shillong | Z | eP Sg | 18 29 53 30 16 | 190 | Slight. |
| 17 | Chatra | Z | iP | 19 19 55 | | Feeble, distant. |
| 17 | Shillong | Z | eP | 23 45 48 | | Slight, near. |
| 18 | Epc: 6.8 S, 129.2 E, Banda Sea, -H = 09 h. 40 m. 28.3 s., -h = 83 Kms. (U.S.C.G.S.) | | | | | |
| | Port Blair | N | iP iS i | 09 48 05 53 59 57 51 | | |
| | Tocklai | E | eP | 09 49 03 | | Slight, distant. |
| | Shillong | ZNE NE | iP iS | 09 49 07 55 53 | 5120 | Slight, compression. |
| | Bokaro | NE | iP iS | 09 49 35 56 49 | 5610 | Moderate. |
| | Madras | E | eP e e | 09 49 38 49 55 52 51 | | Slight. |
| | Chatra | Z NE | iP i | 09 49 40 56 53 | | Slight. |
| | Poona | Z | iP | 09 50 31 | | Slight. |
| | Bombay | E NE | eP PP PcS eS e PPS e ScS | 09 50 36 52 54 55 15 58 40 58 48 59 24 59 42 10 00 11 | 6520 | Slight, deep. |

| Date | Station | Compt | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
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| <u>September, 1960.</u> | | | | | | |
| 18 | Dehra Dun contd. | NE | e eS | 09 50 42 58 43 | | Slight. |
| 18 | Chatra | Z | iP? | 09 56 58 | | |
| 18 | Shillong | Z | eP Sg | 17 23 36 24 43 | 620 | Slight. |
| 18 | Shillong | Z | eP | 18 47 57 | | Slight. |
| 19 | Epc: 15.6 N, 120.0 E, Luzon Islands, Philippine Islands, -H = 03 h. 39 m. 40.9 s., -h = 97 Kms. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | eP | 03 45 15 | | Slight, compression. |
| | Port Blair | E | eP i iS i i | 03 45 19 48 53 49 55 52 45 54 03 | 3150 | Slight. |
| | Shillong | ZNE | iP | 03 45 21 | | Slight, compression. |
| | Calcutta | E | e i i | 03 45 44 46 53 53 29 | | Moderate. |
| | Chatra | Z NE | iP S | 03 46 01 51 14 | 3750 | Slight. |
| | Bokaro | NE E | iP e iS LQ LR | 03 46 08 47 10 51 22 53 35 55 13 | 3780 | Moderate, Initial ground motion towards East. |
| | Madras | E | eP e e | 03 46 59 48 27 52 53 | | Moderate. |
| | Hyderabad | E | iP PP PPP iS SS LR M | 03 47 06 48 39 49 00 53 00 56 00 58 33 04 00 54 | 4440 | Moderate, Initial ground movement towards East. Period= 9 secs. Gr. dis:= 4 μ |
| | Colombo | E | P S M | 03 47 06 53 13 04 10 54 | 4460 | Amp.: = 0.3 |
| | Dehra Dun | NE N | eP PP iS e SS M | 03 47 17 49 13 53 26 56 20 57 12 04 01 29 | 4670 | Slight. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. |  Km. | Remarks |
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| <u>September, 1960.</u> | | | | | | |
| 19 | Kodaikanal contd. | E | eP | 03 47 28 | | Tremor. |
| | Bombay | E | e | 03 47 35 | | Slight, and deep. |
| | | | PP | 49 22 | | |
| | | | PPP | 50 26 | | |
| | | NE | eS | 54 22 | | |
| | Poona | Z | iP | 03 47 44 | 5030 | Slight. |
| | | E | eS | 54 14 | | |
| | | N | e | 56 55 | | |
| 19 | Shillong | Z | iP | 04 04 39 | | Slight, distant, compression. |
| | Chatra | Z | e | 04 05 19 | | Very feeble, probably distant. |
| 19 | Chatra | Z | eP | 04 16 06 | 170 | Mild. |
| | | | S | 16 27 | | |
| 19 | Shillong | Z | eP | 14 55 32 | 130 | Slight, near. |
| | | | Sg | 55 48 | | |
| 19 | Shillong | Z | e | 19 18 04 | | Very feeble, distant. |
| 19 | Epc: 6.9 N, 77.5 W, Colombia-Panama Border, -H = 19 h. 01 m. 25.4 s., -h = 66 Kms., Mag.: 6-6 $\frac{1}{4}$ (Berk), 6 (Pas). (U.S.C.G.S) | | | | | |
| | Shillong | Z | i | 19 20 03 | | Slight, distant, rarefaction. |
| | Chatra | Z | ePKP | 19 20 54 | | Feeble, distant. |
| | Tocklai | E | ePKP | 19 21 07 | | Slight, distant. |
| | Dehra Dun | NE | e | 19 21 45 | | Feeble, phases not clear. |
| 19 | Hyderabad | N | M | 20 21 51 | | Period= 21 secs. Gr. dis.: = 8 m |
| 20 | Epc: 49.9 N, 88.4 E, U.S.S.R. -H = 04 h. 05 m. 56.9 s., -h = 29 Kms. (U.S.C.G.S.) | | | | | |
| | Chatra | Z | eP | 04 11 03 | | Very feeble. |
| | | NE | e | 15 21 | | |
| | Shillong | Z | iP | 04 11 20 | | Slight, distant, rarefaction. |
| | Dehra Dun | NE | e | 04 14 44 | | Feeble. |
| | | | e | 17 55 | | |
| 20 | Shillong | Z | iP | 05 04 06 | | Slight, distant, rarefaction. |

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|-------------------------|--|---------|-----------|----------------------|-----------------|----------------------------------|
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| 20 | Felt at Mechukha, (N), in N.E.F.A. | | | | | |
| | Shillong | Z | 1P 1S | 08 59 14 07 00 11 | 530 | Slight, compression. |
| 20 | Shillong | Z | 1P 1 | 17 24 15 24 42 | | Slight, local. |
| | Chatra | Z | eP e | 17 25 09 26 18 | | Mild. |
| 21 | Shillong | Z | 1P | 02 59 18 | | Slight, distant, rarefaction. |
| 21 | Shillong | Z | 1P Sg | 06 26 39 26 06 | | Slight. |
| | Chatra | Z ZN | 1P S? | 06 26 16 27 02 | 430 | Mild. |
| 21 | Epo: 55.4 N, 166.1 W, Fox Islands, Aleutian Islands, -H = 10 h. 38 m. 31.0 s., -h = about 38 Kms., (U.S.C.G.S.) | | | | | |
| | Shillong | Z | 1P | 10 50 22 | | Slight, distant, compression. |
| | Chatra | Z | 1P | 10 50 31 | | Very feeble, distant. |
| 21 | Epo: 26.5 N, 124.8 E, East China Sea, -H = 16 h. 08 m. 14.7 s., -h = 207 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | 1P | 16 14 05 | | Slight, distant, rarefaction. |
| | Chatra | Z | 1P 1 | 16 14 41 17 17 | | Slight. |
| | Dehra Dun | NE | eP 1S | 16 15 46 21 43 | 4590 | Feeble. |
| | Poona | Z | 1P | 16 16 32 | | Tremor. |
| 21 | Shillong | Z | 1Pg Sg | 16 44 27 44 38 | 100 | Slight. |
| 21 | Shillong | Z | 1P Sg | 22 13 05 13 26 | 180 | Slight. |
| 21 | Epo: 31.9 N, 50.4 E, Iran, -H = 23 h. 05 m. 08.9 s., -h = 84 Kms., (U.S.C.G.S.) | | | | | |
| | Dehra Dun | NE | eP e | 23 11 15 14 32 | | Feeble. |
| | Shillong | Z | 1P | 23 12 09 | | Slight, distant, compression. |
| 22 | Hyderabad | E | e | 04 16 12 | | |

 Date Station Compt. Phase G. M. T. Δ R e m a r k s.
 h. m. s. Km.


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| | | | | | | |
|--------|--|----|-----|----------|------|--|
| 22 | Poona | Z | eP | 04 18 00 | | Feeble. |
| contd. | Chatra | Z | iP | 04 19 41 | | Mild. |
| 22 | Epc: 3.4 S, 29.1 E, Congo, -H = 05 h. 38 m. 14.4 s., -h = 29 Kms. (USCGS) | | | | | |
| | Bombay | E | eP | 05 47 02 | 5370 | Slight. |
| | | NE | eS | 54 02 | | |
| | | E | M | 06 06 32 | | Period= 17 secs. Gr. dis:= 4 μ |
| | | N | M | 07 13 | | Period= 17 secs. Gr. dis.:= 5 μ |
| | Poona | Z | iP | 05 47 03 | | Feeble. |
| | Dehra Dun | NE | e | 05 47 09 | | Slight. |
| | | N | eS | 54 46 | | |
| | | | e | 58 53 | | |
| | | | e | 06 02 52 | | |
| | | | e | 07 16 | | |
| | Hyderabad | E | iP | 05 47 31 | 5890 | Moderate, initial ground motion towards West. |
| | | N | iS | 55 00 | | |
| | | E | SS | 58 42 | | |
| | | N | LR | 06 01 20 | | |
| | | E | LR | 02 57 | | |
| | | N | M | 04 03 | | Period= 18 secs. Gr. dis.:= 10 μ |
| | | E | M | 06 16 | | Period= 18 secs. Gr. dis.:= 8 μ . |
| | Madras | E | eP | 05 47 33 | 5980 | |
| | | | PPP | 50 48 | | |
| | | | eS | 55 07 | | |
| | | | e | 58 55 | | |
| | Chatra | Z | eP | 05 48 44 | 6970 | Feeble. |
| | | N | eS | 57 13 | | |
| | Shillong | Z | iP | 05 49 09 | | Slight, distant, rarefaction. |
| | Kodaikanal | E | e | 05 50 53 | | Tremor. |
| | Colombo | E | e | 05 54 51 | | Tremor. |
| | | | e | 06 02 21 | | |
| 22 | Epc: 3.3 S, 29.5 E, Congo, -H = 09 h. 05 m. 36.8 s., -h = 28 Kms. (USCGS). Mag. = $6\frac{1}{4}$ - $6\frac{1}{2}$ (Pas). | | | | | |
| | Bombay | NE | eP | 09 14 20 | 5450 | |
| | | E | e | 16 19 | | |
| | | NE | eS | 21 25 | | |
| | | N | M | 32 05 | | Period= 19 secs. Gr. dis:= 23 μ . |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks |
|-------------------------|----------|----------|----------------|----------------------|--|---------------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 22 contd. | Poona | Z | iP | 09 14 25 | 5560 | |
| | | E | eS | 21 37 | | |
| | | | PPS | 21 46 | | |
| | | Z | e | 23 47 | | |
| Dehra Dun | NE Ne | eP | 09 14 29 | 5640 | | |
| | | e | 16 16 18 | | | |
| | | iS | 21 45 | | | |
| | | SS | 25 24 | | | |
| | | e | 26 27 | | | |
| | | e | 28 18 | | | |
| Kodalkanal | E | e | 09 14 43 | | Initial ground move- ment towards West. | |
| | | iS | 22 19 | | | |
| | | LQ | 26 19 | | | |
| | | LR | 31 01 | | | |
| | | M | 35 40 | | | Period= 15 secs. Gr.dis.= 14 μ |
| Colombo | E | P | 09 14 46 | 5710 | | |
| | | S | 22 07 | | | |
| | | L | 30 21 | | | |
| | | M | 46 56 | | | Period= 4.5 m.m. |
| Hyderabad | NE N | iP | 09 14 54 | 5900 | Initial ground motion towards North and East. | |
| | | iP | 22 24 | | | |
| | | e | 24 24 | | | |
| | | e | 25 36 | | | |
| | NE N | e | 26 38 | | | |
| | | e | 27 45 | | | |
| | E N | LR | 30 15 | | Period= 21 secs. Gr.dis.= 18 μ . Period = 24 secs. Gr. dis.= 40 μ . | |
| | | M | 33 33 | | | |
| Madras | E | eP | 09 14 15 | 6090 | | |
| | | PP | 16 59 | | | |
| | | PPP | 19 06 | | | |
| | | eS | 22 36 | | | |
| | | i | 24 13 | | | |
| | | SS | 26 18 | | | |
| | | LQ | 28 34 | | | |
| Bokaro | NE E | iP | 09 15 59 | 6970 | Initial ground motion towards East. | |
| | | iS | 24 27 | | | |
| | | i | 25 18 | | | |
| | | SS | 28 43 | | | |
| | | SSS | 31 45 | | | |
| | | LR M | 35 28 41 04 | | | |
| Calcutta | E | e | 09 16 03 | | | |
| | | PeP | 16 33 | | | |
| | | PPP | 19 58 | | | |
| | | iS | 24 51 | | | |
| | | iSSS | 31 43 | | | |
| | | LQ LR | 33 11 35 43 | | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|---|----------|------------------|-------------------------------------|-----------------|---|
| <u>September, 1960.</u> | | | | | | |
| 22 | Chatra contd. | Z N | eP S | 09 16 07 24 41 | 7080 | |
| | Shillong | ZNE E | iP iS | 09 16 51 25 37 | 7680 | |
| | Tocklai | E | eP | 09 16 49 | | Distant. |
| | Port Blair | E | i i i e | 09 25 15 54 19 55 20 58 41 | | |
| 22 | Chatra | Z N | eP e | 09 55 24 10 04 14 | 7390 | Slight. |
| 22 | Shillong | Z | e | 15 35 22 | | Very feeble, distant. |
| 22 | Chatra | Z | eP | 21 01 44 | | Mild, Near. |
| | Shillong | Z | e | 21 02 39 | | Very feeble, distant. |
| | Shillong | Z | iP | 22 49 14 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 22 50 15 | | Very mild, near. |
| 22 | Epc: 51.5 N, 168.8 W, Fox Islands, Aleutian Islands, -H = 22 h. 47 m. 00.6 s., -h = 33 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 22 58 47 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 22 58 53 | | Very feeble, distant. |
| 23 | Tocklai | E | eP | 00 37 27 | | Slight. |
| | Shillong | Z | eP | 00 37 55 | | Slight. |
| 23 | Chatra | Z NE | iP iS | 05 50 22 50 45 | 200 | Slight. |
| | Shillong | Z | eP | 03 51 19 | | Slight, near. |
| 23 | Shillong | Z | eP S | 04 22 55 23 32 | 530 | Slight. |
| 23 | Epc: 27.6 N, 96.2 E, India, -H = 05 h. 20 m. 26.6 s., -h = 81 Kms. (U.S.C.G.S.) | | | | | |
| | Tocklai | E | iP i | 05 20 57 21 29 | | Slight, initial ground movement towards West. |
| | Shillong | Z | iP | 05 21 28 | | Slight, distant, compression. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks |
|-------------------------|---|--------|-------|----------------------|----------|--|
| <u>September, 1960.</u> | | | | | | |
| 23 | Chatra | Z | iP | 05 22 23 | | Slight. |
| | contd. | NE | e | 24 58 | | |
| | Dehra Dun | NE | e | 05 27 11 | | Feeble. |
| | | | e | 29 56 | | |
| 23 | Chatra | Z | e? | 07 14 32 | | Very mild. |
| 23 | Chatra | Z | iP | 18 15 46 | | Mild. |
| 23 | Shillong | Z | iP | 23 36 49 | | Slight, distant, compression. |
| 24 | Chatra | Z | eP | 10 11 06 | | Very mild, near. |
| 24 | Chatra | Z | e | 13 55 35 | | Very mild, near. |
| 24 | Epc: 12.4 S, 166.7 E, Santa Cruz Islands., -H = 15 h. 51 m. 32.2 s., -h = 39 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 14 03 50 | | Slight, distant, compression. |
| | Chatra | Z | eP | 14 04 12 | | Very mild, distant. |
| 24 | Epc: 2.3 S, 75.3 W, Northern Peru, -H = 15 h. 58 m. 25.1 s., -h = 122 Kms. (USS.C.G.S.) | | | | | |
| | Shillong | Z | ePKP | 14 18 10 | | Slight, distant. |
| | Chatra | Z | iPKP | 14 18 11 | | Feeble. |
| 25 | Chatra | Z | iP | 02 05 35 | | Very mild. |
| 25 | Tocklai | E | eP | 02 58 37 | | Slight, near. |
| | Shillong | Z | iP | 02 58 50 | | Slight, distant. |
| | Chatra | Z | iP | 02 59 29 | 980 | Slight. |
| | | ZN | S | 03 01 09 | | |
| 25 | Dehra Dun | NE | e | 07 37 12 | | Feeble. |
| | | | e | 37 41 | | |
| | Chatra | Z | iP | 07 38 12 | | Very feeble, distant. |
| 25 | Chatra | Z | iP | 07 47 58 | | Very feeble, distant. |
| 25 | Vizianagram | NE | eP | 16 50 50 | | Slight, local. |
| 25 | Vizianagram | NE | eP | 16 51 34 | | Slight, local. |
| 25 | Vizianagram | NE | iP | 16 52 28 | 50 | Slight, initial ground movement towards North and East. |
| | | | Sg | 52 34 | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. |  Km. | Remarks. |
|-------------------------|---|--------|-------|----------------------|---|-------------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 25 | Epc: 19.5° N, 145.5° E, Mariana Islands, -H = 17 h. 30 m. 18.4 s., -h = 95 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 17 59 05 | | Slight, distant. |
| | Chatra | Z | iP | 17 39 36 | | Feeble, distant. |
| 25 | Chatra | Z | ePg | 17 54 13 | | Very mild, near. |
| 25 | Dehra Dun | NE | e | 18 39 09 | | Feeble. |
| | | | e | 40 39 | | |
| | Chatra | Z | iP | 18 40 52 | | Feeble, distant. |
| | | | i | 43 45 | | |
| 26 | Tocklai | E | iP | 01 10 21 | 130 | Slight, initial ground motion East. |
| | | | Sg | 10 37 | | |
| | Chatra | Z | iP | 01 11 47 | 780 | Slight. |
| | | ZNE | S | 13 08 | | |
| | Dehra Dun | NE | e | 01 16 21 | | Tremor. |
| 26 | Shillong | Z | eP | 02 34 01 | 150 | Slight. |
| | | | iSg | 34 09 | | |
| 26 | Shillong | Z | iPg | 05 00 29 | 80 | Slight. |
| | | | Sg | 00 38 | | |
| 26 | Shillong | Z | iP | 08 59 17 | | Slight, distant, rarefaction. |
| 26 | Shillong | Z | iPg | 10 21 54 | | Slight. |
| 26 | Shillong | Z | ePg | 11 43 18 | | Slight, distant. |
| 26 | Shillong | Z | i | 11 49 31 | | |
| 26 | Epc: 51.6° N, 172.2° W, Fox Islands, Aleutian Islands, -H = 15 h. 13 m. 25.8 s., -h = 44 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 15 24 58 | | Slight, distant, rarefaction. |
| | Poona | Z | eP | 15 26 22 | | Tremor. |
| | Dehra Dun | NE | e | 15 36 13 | | Tremor. |
| 26 | Poona | Z | iP | 16 17 46 | | Feeble. |
| 26 | Shillong | Z | iP | 17 28 05 | | Slight, distant, compression. |
| 26 | Shillong | Z | iP | 18 54 15 | | Slight, near. |
| 26 | Shillong | Z | eP | 19 00 16 | | Slight, distant. |

| Date | Station | Compt | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|--|-------|-------|----------------------|-----------------|----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 26 | Chatra | Z | 1P | 20 16 11 | | Feeble, distant. |
| 26 | Shillong | Z | eP | 22 55 14 | | Slight, near. |
| 26 | Shillong | Z | i | 23 26 20 | | |
| 27 | Shillong | Z | eP | 02 34 17 | | Slight, distant. |
| 27 | Madras | E | e | 03 20 07 | | Surface waves. |
| | Dehra Dun | NE | e | 03 21 09 | | Feeble. |
| 27 | Epc: 51.5 N, 177.8 E, Rat Islands, Aleutian Islands, -H = 05 h. 51 m. 26.9 s., -h = 102 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 06 03 19 | | Slight, distant, rarefaction. |
| | Chatra | Z | iP | 06 02 33 | | Very feeble, distant. |
| 27 | Shillong | Z | iP | 07 26 33 | | Slight, distant, compression. |
| 27 | Dehra Dun | NE | e | 07 36 32 | | Tremor. |
| 27 | Shillong | Z | eP | 12 04 19 | | Slight, near. |
| | Dehra Dun | NE | e | 12 18 53 | | Feeble. |
| | | | i | 19 16 | | |
| 27 | Shillong | Z | iP | 16 12 59 | | Slight, distant, compression. |
| 27 | Epc: 14.4 N, 145.8 E, Mariana Islands, -H = 18 h. 35 m. 52.2 s., -h = 109 Kms. (U.S.C.G.S.) | | | | | |
| | Shillong | Z | iP | 18 44 52 | | Slight, distant, compression. |
| | Chatra | Z | iP | 18 45 25 | | Feeble, distant. |
| 27 | Shillong | Z | eP | 21 13 18 | 290 | Slight. |
| | | | Sg | 13 53 | | |
| 27 | Shillong | Z | iP | 21 28 48 | 570 | Slight, rarefaction. |
| | | | Sg | 29 48 | | |
| 27 | Shillong | Z | e | 22 59 36 | | Feeble, distant. |
| 27 | Shillong | Z | iP | 23 35 37 | | Slight, distant, compression. |
| 28 | Epc: 32.4 N, 95.8 E, -h = about 25 Kms., -H = 05 h. 29 m. 32.7 s. (U.S.C.G.S.) | | | | | |
| | Shillong | ZNE | iP | 05 31 26 | 830 | |
| | | NE | iS | 32 54 | | |

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| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|-------------------------|-------------------|-------------|---------------------------------|---|-----------------|----------------------------------|
| <u>September, 1960.</u> | | | | | | |
| 28 | Tocklai comtd. | E | eP | 05 31 29 | | Slight. |
| | Calcutta | E | eP eS SSS i | 05 31 50 33 45 34 36 36 25 | 1120 | Slight. |
| | Chatra | Z N | eP iS | 05 31 51 33 47 | 1130 | Slight, distant. |
| | Bokaro | NE | • i • • | 05 32 29 36 04 37 05 36 22 | | Slight. |
| | Dehra Dun | NE N | eP LQ iS SS M | 05 33 23 36 06 36 12 36 33 38 06 | 1680 | Slight. |
| | Poona | Z E N | eP eS LR | 05 34 50 39 13 41 33 | 2790 | Moderate. |
| | Madras | E | eP PP eS LQ LR M | 05 34 54 35 36 39 29 40 21 41 34 43 35 | | Moderate. |
| | Bombay | NE | • • | 05 39 32 42 57 | | Slight, near. |
| 28 | Vizianagram | NE | eP | 18 52 27 | | Feeble, local. |
| 28 | Shillong | Z | iP | 22 10 17 | | |
| | Chatra | Z | iP | 22 10 42 | | Feeble, distant. |
| | Dehra Dun | NE | • | 22 16 50 | | Feeble. |
| 29 | Calcutta | E | • | 03 12 35 | | Slight. |
| 29 | Poona | Z | iP | 06 47 28 | | Feeble. |
| | Shillong | Z | iP | 06 47 49 | | Slight, distant, compression. |
| | Chatra | Z | eP e? | 06 47 55 51 49 | | Very feeble. |
| 29 | Shillong | Z | iP Sg | 09 25 37 25 48 | 90 | Slight, compression. |
| | Chatra | Z | iP | 10 56 40 | | Feeble, distant. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks |
|-------------------------|--|---------|---|---|-----------------|--|
| <u>September, 1960.</u> | | | | | | |
| 29 | Epc: 18.9 N, 144.7 E, Mariana Islands, h= 496 Kms. -H = 11 h. 18 m. 52.8 s. (USCGS) Mag.: 6 (Berk) $6\frac{1}{4}$ - $6\frac{1}{2}$ (Pas). | | | | | |
| | Tocklai | E | IP IS | 11 26 48 32 56 | 5140 | Initial ground movement towards west, |
| | Shillong | Z NE | IP IS | 11 27 02 33 30 | 5500 | Initial ground motion towards East and rarefaction. |
| | Chatra | Z NE | IP e e PP e FFP S e e SS LQ e SSS LR | 11 27 33 28 05 29 02 29 27 30 05 33 01 34 29 37 39 38 13 38 21 38 59 39 13 41 02 41 19 | 6010 | |
| | Calcutta | N | e IS | 11 27 44 34 32 | | |
| | Bokaro | NE E | IP PoP PP e sP i IS SoS e | 11 27 47 28 51 29 15 29 40 29 59 32 43 34 57 36 51 37 29 | 6250 | Initial ground motion towards West. |
| | Vizianagram | NE | IP IS PS | 11 28 10 35 36 37 14 | 6550 | |
| | Port Blair | N | IP i | 11 28 27 33 59 | | |
| 29 | Dehra Dun | NE N | eP PP e IS SS LQ LR M | 11 28 30 30 42 31 42 36 13 40 19 41 49 43 36 48 46 | 6890 | |

| Date | Station | Compt, | Phase | G. M. T. h. m. s. | Δ Km. | Remarks |
|-------------------------|------------------|-------------|--|---|-----------------|--|
| <u>September, 1960.</u> | | | | | | |
| 29 | Madras contd. | E | iP e iS e e e e e | 11 28 36 30 44 36 27 36 35 36 44 38 15 39 04 40 03 | 7050 | Initial ground movement West. |
| | Hyderabad | E | iP e e iS e e e e e M | 11 28 42 30 50 33 27 36 37 36 48 40 36 42 24 43 27 45 30 51 16 | 7110 | Initial ground motion towards East. Period= 15 secs. Gr.dis.=4 μ |
| | Colombo | E | e e | 11 28 50 36 50 | | |
| | Poona | Z N Z | iP iS e e | 11 29 02 37 17 37 47 38 37 | 7510 | |
| | Bombay | NE | eP PP iS ScS sS SS | 11 29 12 31 36 37 31 38 24 40 15 42 05 | 7590 | Unusual amplitude in 'S' phase. |
| 29 | Shillong | Z | iP | 12 19 15 | | Slight, distant, rarefactuib, |
| 29 | Dehra Dun | NE | e i | 14 25 21 25 46 | | Feeble. |
| 29 | Dehra Dun | NE | e | 16 58 11 | | Tremor. |
| 29 | Shillong | Z | eP | 18 25 35 | | Slight. |
| 29 | Shillong | Z | eP Sg | 18 51 47 51 59 | 100 | Slight. |
| 29 | Vizianagram | NE | ePg Sg | 22 36 12 36 18 | 50 | Slight. |
| 30 | Shillong | Z | iP | 04 18 09 | | Slight, distant. |
| 30 | Shillong | Z | iP | 09 57 07 | | Slight, distant. |

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Earthquake Report
(Non Instrumental)

The following is the list of earthquakes that are reported by the voluntary observers from the different stations during the month of September, 1960.

| Place at which felt | Date in G. M. T. | Time in G. M. T. | No. of Shocks | Duration of shock in sec. | Intensity in R.F. Scale. | Remarks. |
|--|------------------|------------------|---------------|---------------------------|--------------------------|----------|
| Shillong | 3.9.60 | 19 42 | 1 | 5 | II | |
| Shillong | 10.9.60 | 12 08 | 1 | 3 | III | |
| Mechukha (Siang Frontier Division N.E.F.A.). | 20.9.60. | 06 55 | 4 | 4 | IV | |

MICROSEISMIC TABULATION

| Date | Hour | K | Mean | Mean | Date | Hour | K | Mean | Mean |
|---|------|-----|-----------|----------|---------------------------------|------|-----|-----------|----------|
| | GMT | | amplitude | period | | GMT | | amplitude | period |
| | | | in m.m. | in secs. | | | | in m.m. | in secs. |
| <u>STATION</u> : Shillong. Component E-W | | | | | <u>MONTH</u> : September, 1960. | | | | |
| 01 | 00 | 3 | 0.5 | 4.3 | 12 | 00 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.5 | 4.4 | | 06 | 3 | 0.3 | 4.2 |
| | 12 | 3 | 0.5 | 4.2 | | 12 | 3 | 0.3 | 4.1 |
| | 18 | 3 | 0.5 | 4.3 | | 18 | 3 | 0.3 | 4.1 |
| 02 | 00 | 3 | 0.4 | 4.3 | 13 | 00 | 3 | 0.3 | 4.0 |
| | 06 | 3 | 0.4 | 4.0 | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.3 | 3.8 |
| | 18 | 3 | 0.4 | 4.0 | | 18 | 3 | 0.4 | 4.2 |
| 03 | 00 | 3 | 0.4 | 4.1 | | | 3 | 0.1 | 1.3 |
| | 06 | 3 | 0.4 | 4.2 | 14 | 00 | 3 | 0.3 | 3.7 |
| | 12 | 3 | 0.4 | 3.9 | | 06 | 3 | 0.4 | 4.1 |
| | 18 | 3 | 0.4 | 4.1 | | 12 | 3 | 0.3 | 4.1 |
| 04 | 00 | ... | - | - | | 18 | ... | - | - |
| | 06 | 3 | 0.4 | 4.1 | 15 | 00 | ... | - | - |
| | 12 | ... | - | - | | 06 | ... | - | - |
| | 18 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.4 | 3.6 |
| 05 | 00 | 3 | 0.4 | 3.9 | | 18 | 3 | 0.4 | 3.8 |
| | 06 | 3 | 0.5 | 5.3 | 16 | 00 | 3 | 0.3 | 4.0 |
| | | 3 | 0.4 | 3.5 | | 06 | 3 | 0.3 | 4.1 |
| | 12 | 3 | 0.4 | 3.5 | | 12 | 3 | 0.3 | 4.2 |
| | | 3 | 0.4 | 5.4 | | 18 | 3 | 0.4 | 4.1 |
| | 18 | 3 | 0.4 | 6.0 | 17 | 00 | 3 | 0.4 | 4.2 |
| | | 3 | 0.4 | 3.6 | | | 3 | 0.4 | 4.1 |
| 06 | 00 | 3 | 0.4 | 3.5 | | 12 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.4 | 3.6 | | 18 | 3 | 0.4 | 4.1 |
| | 12 | 3 | 0.3 | 3.6 | 18 | 00 | 3 | 0.4 | 4.0 |
| | 18 | 3 | 0.3 | 3.6 | | 06 | 3 | 0.4 | 4.0 |
| 07 | 00 | 3 | 0.4 | 3.8 | | 12 | 3 | 0.3 | 3.9 |
| | 06 | 3 | 0.4 | 3.6 | | 18 | 3 | 0.4 | 3.9 |
| | 12 | 1 | 0.5 | 3.6 | 19 | 00 | 3 | 0.4 | 3.8 |
| | 18 | 1 | 0.5 | 3.8 | | 06 | 3 | 0.3 | 3.7 |
| 08 | 00 | 3 | 0.4 | 3.7 | | 12 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.4 | 4.1 | | 18 | 3 | 0.3 | 4.0 |
| | 12 | 3 | 0.4 | 3.9 | 20 | 00 | 3 | 0.3 | 3.8 |
| | 18 | 3 | 0.4 | 3.9 | | 06 | 3 | 0.3 | 3.8 |
| 09 | 00 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.3 | 3.8 |
| | 06 | 3 | 0.4 | 3.9 | | 18 | 3 | 0.3 | 3.6 |
| | 12 | 3 | 0.4 | 3.8 | 21 | 00 | 3 | 0.3 | 3.7 |
| | 18 | 3 | 0.4 | 3.9 | | 06 | 3 | 0.3 | 3.7 |
| 10 | 00 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.4 | 4.3 | | 18 | 3 | 0.3 | 3.8 |
| | 12 | 3 | 0.4 | 4.1 | 22 | 00 | 3 | 0.3 | 3.7 |
| | 18 | 3 | 0.4 | 4.0 | | 06 | 1 | 0.4 | 3.7 |
| 11 | 00 | 3 | 0.4 | 4.2 | | 12 | 1 | 0.4 | 3.7 |
| | 06 | 3 | 0.4 | 4.1 | | 18 | 1 | 0.4 | 3.9 |
| | 12 | 3 | 0.4 | 3.9 | 23 | 00 | 1 | 0.4 | 4.1 |
| | 18 | 3 | 0.4 | 3.9 | | 06 | 3 | 0.4 | 4.1 |

| Date | Hour | M | Mean amplitude in mm. | Mean period in secs. | Date | Hour | M | Mean amplitude in mm. | Mean period in secs. |
|------|------|---|-----------------------|----------------------|------|------|---|-----------------------|----------------------|
|------|------|---|-----------------------|----------------------|------|------|---|-----------------------|----------------------|

STATION : Shillong (contd.)

MONTH : September, 1960.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 25 | 02 | 3 | 0.4 | 3.6 | 03 | 00 | ... | - | - |
| | 18 | 3 | 0.4 | 4.0 | | 06 | ... | - | - |
| 24 | 00 | 3 | 0.4 | 3.9 | | 12 | ... | - | - |
| | 06 | 3 | 0.4 | 3.7 | | 18 | ... | - | - |
| | 12 | 3 | 0.4 | 3.7 | 04 | 00 | ... | - | - |
| | 18 | 3 | 0.4 | 3.7 | | 06 | ... | - | - |
| 25 | 00 | 3 | 0.4 | 3.8 | | 12 | ... | - | - |
| | 06 | 3 | 0.4 | 3.8 | | 18 | ... | - | - |
| | 12 | 3 | 0.4 | 3.6 | 05 | 00 | ... | - | - |
| | 18 | 3 | 0.4 | 3.5 | | 06 | ... | - | - |
| 26 | 00 | 3 | 0.4 | 3.6 | | 12 | ... | - | - |
| | 06 | ... | - | - | | 18 | ... | - | - |
| | 12 | 3 | 0.4 | 3.7 | 06 | 00 | ... | - | - |
| | 18 | 3 | 0.4 | 3.6 | | 06 | ... | - | - |
| 27 | 00 | 3 | 0.4 | 4.1 | | 12 | ... | - | - |
| | 06 | 3 | 0.4 | 4.1 | | 18 | ... | - | - |
| | 12 | 3 | 0.4 | 4.2 | 07 | 00 | ... | - | - |
| | 18 | 3 | 0.4 | 4.1 | | 06 | ... | - | - |
| 28 | 00 | 1 | 0.4 | 4.3 | | 12 | 3 | 0.7 | 3.7 |
| | 06 | 1 | 0.4 | 4.2 | | | | 0.7 | 2.0 |
| | 12 | 1 | 0.4 | 4.3 | | 18 | 3 | 1.0 | 4.1 |
| | 18 | 1 | 0.5 | 4.4 | | | | 0.8 | 1.7 |
| 29 | 00 | 1 | 0.5 | 4.7 | 08 | 00 | 3 | 1.0 | 4.0 |
| | 06 | 1 | 0.5 | 4.5 | | 06 | 3 | 0.8 | 2.5 |
| | 12 | ... | - | - | | 12 | 3 | 1.0 | 3.8 |
| | 18 | 1 | 0.4 | 4.3 | | 18 | 3 | 0.3 | 2.2 |
| 30 | 00 | 3 | 0.4 | 4.3 | | | | 1.1 | 3.9 |
| | 06 | 3 | 0.4 | 4.3 | | | | 0.8 | 2.0 |
| | 12 | 3 | 0.4 | 4.3 | | 18 | 3 | 1.1 | 3.7 |
| | 18 | 3 | 0.4 | 3.5 | | | | 0.5 | 2.0 |

STATION : Bombay (Colaba)

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|---|-----|-----|
| 01 | 00 | 3 | 1.1 | 3.0 | 09 | 00 | 3 | 1.0 | 3.9 |
| | 06 | 3 | 1.5 | 3.5 | | 06 | 3 | 0.8 | 2.7 |
| | 12 | 3 | 1.5 | 3.4 | | 12 | 3 | 1.0 | 3.8 |
| | 18 | 3 | 1.4 | 3.2 | | | | 0.4 | 2.5 |
| 02 | 00 | ... | - | - | | 12 | 3 | 1.2 | 3.9 |
| | 06 | 3 | 1.3 | 3.6 | | | | 0.3 | 2.2 |
| | 12 | 3 | 0.6 | 2.0 | | 18 | 3 | 1.0 | 4.0 |
| | 18 | 3 | 0.6 | 3.8 | | | | 1.0 | 4.0 |
| | | ... | 2.1 | 2.0 | 10 | 00 | 3 | 1.0 | 4.0 |
| | | ... | - | - | | | | 0.4 | 1.8 |
| | | | | | | 06 | 3 | 1.0 | 3.9 |
| | | | | | | | | 0.8 | 1.7 |
| | | | | | | 12 | 3 | 1.0 | 4.3 |
| | | | | | | | | 0.7 | 2.0 |
| | | | | | | 18 | 3 | 0.8 | 4.0 |
| | | | | | | | | 0.3 | 2.0 |

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|---|------|-----|------------------------------|----------------------------|---------------------------------|------|-----|------------------------------|----------------------------|
| | GMT | | | | | GMT | | | |
| <u>STATION</u> : Bombay (Colaba) (contd.) | | | | | <u>MONTH</u> : September, 1960. | | | | |
| 11 | 00 | 3 | 0.9 | 4.3 | 19 | 00 | 3 | 0.9 | 3.7 |
| | | | 0.3 | 2.0 | | | | 0.3 | 2.5 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 3 | 1.1 | 4.3 | | 12 | 3 | 0.8 | 4.2 |
| | | | 0.5 | 2.0 | | | | 0.5 | 2.3 |
| | 18 | 3 | 0.9 | 4.3 | | 18 | 3 | 0.8 | 3.9 |
| | | | 0.2 | 2.0 | | | | 0.6 | 2.4 |
| 12 | 00 | 3 | 1.0 | 4.1 | 20 | 00 | 3 | 0.8 | 3.4 |
| | | | 0.3 | 2.5 | | | | 0.6 | 2.4 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | 3 | 0.9 | 3.3 |
| | 18 | 3 | 0.9 | 4.5 | | | | 0.5 | 2.5 |
| | | | 0.3 | 2.7 | | 18 | 3 | 0.8 | 3.6 |
| | | | | | | | | 0.4 | 2.5 |
| 13 | 00 | 3 | 0.9 | 4.4 | 21 | 00 | 3 | 0.7 | 3.7 |
| | | | 0.5 | 3.0 | | | | 0.3 | 2.5 |
| | 06 | ... | - | - | | 06 | 3 | 0.8 | 3.7 |
| | 12 | 3 | 0.9 | 4.5 | | | | 0.3 | 2.6 |
| | | | 0.4 | 3.0 | | 12 | 3 | 0.7 | 3.7 |
| | 18 | 3 | 0.7 | 4.5 | | | | 0.3 | 2.4 |
| | | | 0.4 | 3.0 | | 18 | 3 | 0.9 | 3.7 |
| | | | | | | | | 0.3 | 2.6 |
| 14 | 00 | ... | - | - | 22 | 00 | 3 | 0.8 | 4.1 |
| | 06 | 2 | 0.7 | 4.6 | | | | 0.3 | 2.5 |
| | 12 | 2 | 0.7 | 4.4 | | 06 | ... | - | - |
| | 18 | 2 | 0.8 | 4.5 | | 12 | 3 | 0.9 | 4.0 |
| 15 | 00 | 2 | 0.7 | 4.1 | | | | 0.4 | 2.4 |
| | 06 | ... | - | - | | 18 | 3 | 0.9 | 3.9 |
| | 12 | 2 | 0.5 | 4.0 | | | | 0.5 | 1.9 |
| | 18 | 2 | 0.5 | 4.1 | 23 | 00 | 3 | 0.9 | 4.0 |
| 16 | 00 | 2 | 0.6 | 4.3 | | | | 0.7 | 2.5 |
| | 06 | ... | - | - | | 06 | 3 | 0.6 | 3.9 |
| | 12 | ... | - | - | | | | 0.5 | 2.2 |
| | 18 | 2 | 0.6 | 4.3 | | 12 | 3 | 0.8 | 4.0 |
| 17 | 00 | 2 | 0.6 | 4.5 | | | | 0.5 | 2.5 |
| | 06 | ... | - | - | | 18 | 3 | 0.8 | 3.9 |
| | 12 | 3 | 0.5 | 4.0 | | | | 0.6 | 1.8 |
| | | | 0.3 | 2.5 | 24 | 00 | 3 | 1.0 | 3.7 |
| | 18 | 3 | 0.6 | 4.2 | | | | 0.5 | 2.2 |
| | | | 0.3 | 2.3 | | 06 | 3 | 1.1 | 3.3 |
| 18 | 00 | 3 | 0.7 | 4.0 | | | | 0.7 | 2.0 |
| | | | 0.3 | 2.5 | | 12 | 3 | 0.9 | 3.8 |
| | 06 | 3 | 0.7 | 3.7 | | | | 0.5 | 2.3 |
| | | | 0.4 | 2.5 | | 18 | 3 | 0.9 | 3.5 |
| | 12 | 3 | 0.9 | 4.1 | | | | 0.4 | 2.0 |
| | | | 0.3 | 2.0 | | | | | |
| | 18 | 3 | 0.8 | 4.2 | | | | | |
| | | | 0.3 | 2.0 | | | | | |

| Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs. |
|---|----------|-----|------------------------|----------------------|---------------------------------|----------|-----|------------------------|----------------------|
| STATION : Bombay (Colaba) (contd.) | | | | | STATION : Madras | | | | |
| | | | | | MONTH : September, 1960. | | | | |
| 25 | 00 | 3 | 0.8 | 4.0 | 01 | 00 | 3 | 0.3 | 2.7 |
| | | | 0.4 | 2.3 | | | 3 | 0.2 | 1.7 |
| | 06 | 3 | 0.8 | 3.7 | 03 | 03 | 3 | 0.3 | 3.0 |
| | | | 0.3 | 2.0 | 06 | 06 | 3 | 0.3 | 2.9 |
| | 12 | 3 | 0.8 | 3.7 | 12 | 12 | 3 | 0.4 | 2.9 |
| | | | 0.3 | 2.2 | 18 | 18 | 3 | 0.4 | 3.1 |
| | 18 | 3 | 0.9 | 4.0 | | | | | |
| | | | 0.4 | 2.2 | 02 | 00 | 3 | 0.3 | 2.9 |
| 26 | 00 | 3 | 1.0 | 3.1 | 03 | 03 | 3 | 0.4 | 2.6 |
| | | | 0.4 | 2.3 | 06 | 06 | 2 | 0.4 | 2.8 |
| | 06 | 3 | 1.1 | 4.0 | 12 | 12 | 3 | 0.5 | 3.3 |
| | | | 0.3 | 2.2 | 18 | 18 | 3 | 0.5 | 3.9 |
| | 12 | 3 | 1.0 | 3.6 | | | | | |
| | | | 0.4 | 2.3 | 03 | 00 | 3 | 0.5 | 4.0 |
| | 18 | 3 | 1.0 | 4.3 | 03 | 03 | 3 | 0.5 | 4.1 |
| | | | 0.4 | 2.0 | 06 | 06 | 3 | 0.6 | 4.1 |
| | | | | | | | 3 | 0.3 | 2.4 |
| 27 | 00 | 3 | 1.1 | 4.0 | 12 | 12 | 3 | 0.6 | 4.1 |
| | | | 0.4 | 2.3 | | | 3 | 0.5 | 2.3 |
| | 03 | ... | - | - | 18 | 18 | 3 | 0.6 | 4.1 |
| | 06 | 3 | 0.9 | 4.0 | | | 3 | 0.4 | 2.7 |
| | | | 0.4 | 2.1 | | | 3 | 0.1 | 1.6 |
| | 09 | ... | - | - | 04 | 00 | 3 | 0.4 | 3.9 |
| | 12 | 1 | 1.1 | 4.1 | | | 3 | 0.6 | 2.7 |
| | 15 | 1 | 1.0 | 4.4 | 03 | 03 | 1 | 0.5 | 2.5 |
| | 18 | 1 | 0.9 | 4.0 | 06 | 06 | 1 | 0.3 | 2.6 |
| | 21 | 1 | 1.2 | 4.1 | 12 | 12 | 1 | 1.0 | 2.5 |
| | | | | | 18 | 18 | 1 | 0.6 | 2.9 |
| 28 | 00 | ... | - | - | | | | | |
| | 03 | ... | - | - | 05 | 00 | 3 | 0.5 | 3.0 |
| | 06 | ... | - | - | 03 | 03 | 3 | 0.4 | 2.7 |
| | 09 | 1 | 1.5 | 4.7 | 06 | 06 | ... | - | - |
| | 12 | 1 | 1.4 | 4.2 | 12 | 12 | 1 | 0.6 | 2.9 |
| | 15 | 1 | 1.5 | 4.2 | 18 | 18 | 1 | 0.6 | 2.8 |
| | 18 | 1 | 1.0 | 4.2 | | | | | |
| | 21 | 1 | 1.0 | 4.1 | 06 | 00 | 1 | 0.6 | 2.6 |
| 29 | 00 | 1 | 1.0 | 4.2 | 03 | 03 | 1 | 0.7 | 2.6 |
| | 06 | ... | - | - | 06 | 06 | 1 | 0.7 | 2.6 |
| | 12 | ... | - | - | 12 | 12 | 1 | 0.7 | 2.7 |
| | 18 | ... | - | - | 18 | 18 | 1 | 0.6 | 3.0 |
| 30 | 00 | 3 | 0.7 | 4.5 | | | | | |
| | | | 0.3 | 2.3 | 07 | 00 | 1 | 0.6 | 2.8 |
| | 06 | 3 | 0.9 | 4.3 | 03 | 03 | 1 | 0.7 | 2.8 |
| | | | 0.4 | 2.2 | 06 | 06 | 1 | 0.5 | 2.2 |
| | 12 | 3 | 0.8 | 4.3 | 06 | 06 | 1 | 0.6 | 2.7 |
| | | | 0.4 | 2.4 | 12 | 12 | 3 | 0.6 | 2.7 |
| | 18 | 3 | 0.9 | 4.2 | | | 3 | 0.7 | 3.9 |
| | | | 0.3 | 2.4 | 18 | 18 | 3 | 0.4 | 2.7 |
| | | | | | | | 3 | 0.7 | 3.7 |

MONTH : September, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean Period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|----------------------------|------|-----|------------------------|----------------------|------|------|-----|------------------------|----------------------|
| | GMT | | | | | GMT | | | |
| STATION : Madras (contd .) | | | | | | | | | |
| 08 | 00 | 3 | 0.6 | 3.5 | 16 | 00 | ... | - | - |
| | 03 | 3 | 0.7 | 3.9 | | 03 | 3 | 0.2 | 2.6 |
| | 06 | 3 | 0.7 | 3.8 | | 06 | 3 | 0.2 | 2.5 |
| | 12 | 1 | 0.7 | 3.9 | | | 3 | 0.4 | 3.7 |
| | 18 | 1 | 0.8 | 4.1 | | 12 | 3 | 0.4 | 3.8 |
| | | | | | | | 3 | 0.2 | 2.1 |
| 09 | 00 | 1 | 0.9 | 4.2 | | 18 | 3 | 0.3 | 1.9 |
| | 03 | 1 | 0.9 | 4.2 | | | | | |
| | 06 | 3 | 0.8 | 4.1 | 17 | 00 | 3 | 0.3 | 2.1 |
| | 12 | 3 | 0.7 | 4.2 | | 03 | 3 | 0.3 | 2.1 |
| | 18 | 3 | 0.7 | 4.4 | | 06 | ... | - | - |
| | | | | | | 12 | 1 | 0.5 | 2.6 |
| 10 | 00 | 3 | 0.7 | 4.3 | | 18 | 1 | 0.6 | 2.6 |
| | 03 | 3 | 0.7 | 4.1 | | | | | |
| | 06 | 3 | 0.7 | 3.9 | 18 | 00 | 1 | 0.6 | 2.8 |
| | 12 | 3 | 0.7 | 4.0 | | 03 | 1 | 0.6 | 2.8 |
| | 18 | 3 | 0.6 | 3.9 | | 06 | 1 | 0.7 | 2.9 |
| | | | | | | 12 | 1 | 0.7 | 2.7 |
| 11 | 00 | 3 | 0.7 | 4.2 | | 18 | 3 | 0.6 | 2.5 |
| | 03 | 3 | 0.7 | 4.3 | | | | | |
| | 06 | 3 | 0.7 | 4.2 | 19 | 00 | 1 | 0.5 | 2.6 |
| | 12 | 3 | 0.6 | 4.3 | | 03 | 3 | 0.6 | 2.4 |
| | 18 | 3 | 0.6 | 4.4 | | 06 | 3 | 0.4 | 2.3 |
| | | | | | | 12 | 3 | 0.5 | 2.3 |
| 12 | 00 | 3 | 0.6 | 4.3 | | 18 | 3 | 0.5 | 2.8 |
| | | 3 | 0.1 | 1.4 | | | | | |
| | 03 | 3 | 0.7 | 4.5 | 20 | 00 | 3 | 0.5 | 2.9 |
| | 06 | 3 | 0.7 | 4.7 | | 03 | 3 | 0.4 | 2.4 |
| | 12 | 3 | 0.6 | 5.0 | | | 3 | 0.5 | 3.1 |
| | 18 | 3 | 0.6 | 4.4 | | 06 | 3 | 0.4 | 2.4 |
| | | | | | | | 3 | 0.5 | 3.1 |
| 13 | 00 | 3 | 0.5 | 4.5 | | 12 | 3 | 0.3 | 2.3 |
| | 03 | 3 | 0.5 | 4.5 | | | 3 | 0.6 | 3.4 |
| | 06 | 3 | 0.5 | 4.5 | | 18 | 3 | 0.6 | 3.5 |
| | 12 | 3 | 0.5 | 4.4 | | | | | |
| | 18 | 3 | 0.5 | 4.4 | 21 | 00 | 3 | 0.6 | 3.3 |
| | | | | | | 03 | 3 | 0.6 | 3.5 |
| 14 | 00 | 3 | 0.4 | 4.2 | | | 3 | 0.3 | 2.4 |
| | 03 | 3 | 0.4 | 4.2 | | 06 | 3 | 0.7 | 3.5 |
| | 06 | ... | - | - | | | 3 | 0.6 | 2.4 |
| | 12 | 3 | 0.3 | 4.1 | | 12 | 3 | 0.7 | 3.5 |
| | 18 | 3 | 0.3 | 5.7 | | | 3 | 0.6 | 2.5 |
| | | 3 | 0.2 | 2.3 | | 18 | 3 | 0.7 | 3.6 |
| | | | | | | | | 0.5 | 2.5 |
| 15 | 00 | 3 | 0.3 | 2.3 | | | | | |
| | 03 | 3 | 0.4 | 3.9 | 22 | 00 | 3 | 0.7 | 3.5 |
| | | 3 | 0.1 | 1.8 | | | 3 | 0.6 | 2.5 |
| | 06 | 3 | 0.3 | 3.9 | | 03 | 1 | 0.8 | 3.5 |
| | | 3 | 0.2 | 2.2 | | 06 | 1 | 0.8 | 3.3 |
| | 12 | 3 | 0.3 | 3.9 | | 12 | 1 | 0.9 | 3.0 |
| | | 3 | 0.3 | 2.1 | | 18 | 1 | 0.9 | 3.1 |
| | 18 | 3 | 0.3 | 3.3 | | | | | |
| | | 3 | 0.2 | 2.3 | | | | | |

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MONTH : September, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|
|------|------|---|------------------------|----------------------|------|------|---|------------------------|----------------------|

STATION : Madras (contd.)

| | | | | |
|----|----|-----|-----|-----|
| 23 | 00 | 1 | 0.8 | 3.9 |
| | 03 | 1 | 0.9 | 2.9 |
| | 06 | 1 | 0.8 | 2.9 |
| | 12 | 1 | 0.8 | 3.1 |
| | 18 | 1 | 0.7 | 3.2 |
| 24 | 00 | 1 | 0.8 | 3.4 |
| | 03 | 1 | 0.7 | 3.3 |
| | 06 | 1 | 0.6 | 3.2 |
| | 12 | 1 | 0.7 | 3.6 |
| | 18 | 1 | 0.6 | 3.7 |
| 25 | 00 | 1 | 0.7 | 3.7 |
| | 03 | 1 | 0.6 | 3.9 |
| | 06 | 1 | 0.7 | 3.7 |
| | 12 | 1 | 0.7 | 4.0 |
| | 18 | 1 | 0.7 | 3.8 |
| 26 | 00 | 1 | 0.7 | 3.8 |
| | 03 | 1 | 0.6 | 3.9 |
| | 06 | 1 | 0.6 | 3.7 |
| | 12 | 3 | 0.7 | 4.0 |
| | 18 | 3 | 0.6 | 3.7 |
| 27 | 00 | 3 | 0.7 | 3.9 |
| | 03 | 1 | 0.6 | 3.8 |
| | 06 | 1 | 0.7 | 3.8 |
| | 12 | 1 | 0.9 | 4.1 |
| | 18 | 1 | 0.9 | 4.2 |
| 28 | 00 | 1 | 1.1 | 4.4 |
| | 03 | ... | - | - |
| | 06 | 1 | 1.0 | 4.6 |
| | 12 | 1 | 1.1 | 4.4 |
| | 18 | 1 | 0.9 | 4.4 |
| 29 | 00 | 3 | 0.7 | 4.5 |
| | 03 | 3 | 0.7 | 4.4 |
| | 06 | 3 | 0.7 | 4.4 |
| | 12 | ... | - | - |
| | 18 | 3 | 0.6 | 4.5 |
| 30 | 00 | 3 | 0.6 | 4.5 |
| | | 3 | 0.1 | 1.3 |
| | 03 | 3 | 0.6 | 4.0 |
| | 06 | 3 | 0.6 | 4.5 |
| | 12 | 3 | 0.6 | 4.4 |
| | 18 | 3 | 0.6 | 4.4 |

STATION : Port Blair

| | | | | |
|----|----|-----|-----|-----|
| 01 | 00 | 3 | 0.4 | 7.5 |
| | 06 | ... | - | - |
| | 12 | ... | - | - |
| | 18 | 3 | 0.4 | 3.2 |
| 02 | 00 | 3 | 0.4 | 3.2 |
| | 06 | ... | - | - |
| | 12 | ... | - | - |
| | 18 | ... | - | - |
| 03 | 00 | ... | - | - |
| | 03 | 3 | 0.4 | 3.2 |
| | 12 | 3 | 0.4 | 3.2 |
| | 18 | 3 | 0.4 | 3.2 |
| 04 | 00 | 3 | 0.4 | 3.2 |
| | 06 | ... | - | - |
| | 12 | ... | - | - |
| | 18 | 3 | 0.8 | 7.5 |
| 05 | 00 | 3 | 0.8 | 7.5 |
| | 06 | 1 | 1.6 | 7.5 |
| | 12 | 1 | 1.6 | 7.5 |
| | 18 | 1 | 1.6 | 7.5 |
| 06 | 00 | 1 | 1.6 | 7.5 |
| | 06 | 1 | 0.8 | 7.5 |
| | 12 | 3 | 0.8 | 7.5 |
| | 18 | 3 | 0.4 | 3.2 |
| 07 | 00 | 3 | 0.4 | 3.2 |
| | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.2 |
| | 18 | 3 | 0.4 | 3.2 |
| 08 | 00 | 3 | 0.4 | 3.2 |
| | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.5 |
| | 18 | 3 | 0.4 | 3.4 |
| 09 | 00 | 3 | 0.4 | 3.5 |
| | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 3.2 |
| | 18 | 3 | 0.4 | 3.5 |
| 10 | 00 | 3 | 0.4 | 3.3 |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |

MONTH : September, 1960.

| Date | Hour | K | Mean amplitude in micron. | Mean period in secs. | Date | Hour | K | Mean amplitude in micron. | Mean period in secs. |
|-------------------------------|------|-----|---------------------------------|----------------------------|------|------|-----|---------------------------------|----------------------------|
| | GMT | | | | | GMT | | | |
| STATION : Port Blair (contd.) | | | | | | | | | |
| 11 | 00 | 0,0 | - | - | 22 | 00 | 3 | 0.8 | 3.2 |
| | 06 | ... | - | - | | 06 | 3 | 0.8 | 3.4 |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.8 | 3.5 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.8 | 3.5 |
| 12 | 00 | 3 | 0.4 | 7.5 | 23 | 00 | 3 | 0.8 | 3.5 |
| | 06 | ... | - | - | | 06 | 2 | 1.2 | 3.2 |
| | 12 | ... | - | - | | 12 | 2 | 1.2 | 3.3 |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 2 | 1.2 | 3.3 |
| 13 | 00 | 3 | 0.4 | 7.5 | 24 | 00 | 3 | 1.2 | 3.5 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | ... | - | - | | 12 | 2 | 1.2 | 3.5 |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 2 | 1.2 | 3.5 |
| 14 | 00 | 3 | 0.4 | 7.5 | 25 | 00 | 2 | 0.8 | 3.5 |
| | 06 | ... | - | - | | 06 | 2 | 0.4 | 3.4 |
| | 12 | ... | - | - | | 12 | 2 | 0.4 | 3.4 |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 2 | 0.4 | 3.4 |
| 15 | 00 | 3 | 0.4 | 7.5 | 26 | 00 | 2 | 0.4 | 3.5 |
| | 06 | 3 | 0.4 | 7.5 | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 16 | 00 | 0,0 | - | - | 27 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.4 | 3.4 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 3.4 |
| 17 | 00 | 0,0 | - | - | 28 | 00 | 3 | 0.4 | 3.4 |
| | 06 | ... | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.4 | 3.6 |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 3 | 0.4 | 3.6 |
| 18 | 00 | 3 | 0.4 | 7.5 | 29 | 00 | 3 | 0.4 | 3.6 |
| | 06 | 3 | 0.4 | 7.5 | | 06 | ... | - | - |
| | 12 | 3 | 0.4 | 7.5 | | 12 | 3 | 0.4 | 3.6 |
| | 18 | 3 | 0.4 | 7.5 | | 18 | 3 | 0.4 | 3.6 |
| 19 | 00 | 3 | 0.4 | 7.5 | 30 | 00 | 3 | 0.4 | 3.6 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.4 | 3.6 |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.4 | 7.5 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 7.5 |
| 20 | 00 | 0,0 | - | - | | | | | |
| | 06 | 3 | 0.4 | 3.4 | | | | | |
| | 12 | 3 | 0.4 | 3.5 | | | | | |
| | 18 | 3 | 0.4 | 3.3 | | | | | |
| 21 | 00 | 3 | 0.4 | 3.3 | | | | | |
| | 06 | 3 | 0.8 | 3.3 | | | | | |
| | 12 | 3 | 0.8 | 3.4 | | | | | |
| | 18 | 3 | 0.8 | 3.2 | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

E-001-000



Published under the direction of
Shri P.R. Krishna Rao,
Director General of Observatories

List of Seismograph stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a.s.l. (Metres) | Lithographic Foundation | Instrument | Compt. | Period in secs | Static Magni- fication | Damping ratio | Paper speed mm/min. | |
|-------------|----------|-----------|------------------------------|----------------------------|----------------------|---------------|----------------------|------------------------------|------------------|---------------------------|------|
| Agra | | | | | Columbia | E | To=15 | Tg=100 | | 15 | |
| | | | | | Long Period | N | To=15 | Tg=95 | | 15 | |
| | | | | | - do - | Z | To=15 | Tg=70 | | 15 | |
| Bombay | 18°54'N | 72°40'E | 6 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 15 | |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 | |
| | | | | | Sprengnether | E | To=Tg=7 secs | | 30 | | |
| Bokaro | 23°50'N | 85°48'E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 15 | |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h=0.8 | 60 | |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h=0.8 | 60 | |
| Calcutta | 22°32'N | 88°22'E | (1) 7 | (Milne-Shaw) | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | (2) 6(Omori-Ewing) | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | | Alluvium | Omori-Ewing | N | 15 | 32 | | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | | 25.4 | |
| Chattr. | 25°50'N | 87°19'E | 151 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 15 | |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 | |
| | | | | | Benioff | Z | To=0 | Tg=0.45 | Critical | 50 | |
| | | | | | Wenner-Accelerograph | ZNE | | | | | |
| Colombo | 05°54'N | 79°52'E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - | |
| Dehra Dun | 30°19'N | 78°02'E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 | |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| Hyderabad | 17°25'N | 78°27'E | 535 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 | |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 | |
| Kodaikanal | 10°14'N | 77°28'E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 | |
| Madras | 13°00'N | 80°11'E | 15 | - | Sprengnether | E | To=Tg=72 secs | | Critical | 50 | |
| New Delhi | 28°35'N | 77°12'E | 207 | Massive Quartzite | | | | | | | |
| Poona | 18°32'N | 73°51'E | 560 | Deccan Trap | Sprengnether | Z | To=Tg=1.5 | | Critical | 30 | |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 15 | |
| Fort Blair | 11°49'N | 92°43'E | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 20:1 | 30 | |
| Selore | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 | |
| | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 | |
| Shillong | 25°34'N | 91°53'E | 1500 | Quartzite | Wood-Anderson | N | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | (Shillong | N | 12 | 250 | 20:1 | 8 | |
| | | | | | Quartzite) | Z | To=1.0 | Tg=0.18 | | 50 | |
| | | | | | Sprengnether | E | To=Tg=6.3 | | Critical | 30 | |
| Tocklai | 28°45'N | 94°45'E | | Alluvium | Wenner Accelerograph | ZNE | | | | | |
| | | | | | Wood-Anderson | E | 0.8 | 970 | h=0.8 | 60 | |
| Vizianagram | 18°07'N | 83°27'E | | | Wood-Anderson | E | 0.8 | 1000 | h=0.8 | 30 | |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|---------------------|---|--------------|--|--|-----------------|----------------------------------|
| <u>October 1960</u> | | | | | | |
| 01 | Epc:- 23°3' N, 94°6' E. Burma. -h = 67 Km. -H = 03h 00m 50.2s. (USCGS). | | | | | |
| | Shillong | ZNE E | iP iS | 03 01 30 02 21 | | Slight |
| | Tocklai | E | eP | 05 01 50 | | Slight. |
| | Calcutta | NE N | eP? • • | 03 02 22 02 38 03 18 03 19 | 530 | Slight. |
| | Chatra | Z N | eP i? PP PPP Pg iS i? SS SSS S* Sg/M | 03 02 44 02 47 02 50 02 56 03 16 04 01 04 01 04 12 04 23 04 24 04 41 | 740 | Moderate, compression. |
| | Bombay | E N NE | e e e | 03 09 10 10 08 11 11 | | Feeble, near. tremor. |
| 01 | Chatra | Z | iP | 05 39 49 | | Very feeble, rarefaction. |
| 01 | Shillong | Z | iP | 05 40 20 | | Slight, distant. Rarefaction. |
| 01 | Shillong | Z | iP | 06 33 57 | | Slight, distant. Rarefaction. |
| 01 | Chatra | Z | iP i? | 06 34 29 39 34 | | Feeble, distant. Rarefaction. |
| 01 | Shillong | Z | i | 06 39 09 | | Slight, distant. |
| 01 | Shillong | Z | iP | 10 26 59 | | Slight, local. |
| 01 | Shillong | Z | iP | 11 54 49 | | Slight, distant. Rarefaction. |
| 01 | Shillong | Z | eP | 15 04 52 | | Slight, local. |
| 01 | Shillong | Z | eP | 16 05 05 | | Slight, distant. Compression. |
| 01 | Epc:- 52:2°N, 172.6°W. Fox Islands in the Aleutians. -h = 41 Km. -H = 16h 10m 56.9s (USCGS). Mag :- 6 (Berk), 6½ (Pas). | | | | | |
| | Shillong | ZN N | iP iS | 16 22 26 31 55 | 8150 | Rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
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| | | | | h. m. s. | km. | |
| <u>October, 1960.</u> | | | | | | |
| 01 (Contd.) | Chatra | Z | eP | 16 22 35 | | Compression. |
| | | | iP | 22 41 | | |
| | | N | PP | 25 35 | | |
| | | | S | 32 21 | | |
| | | | ScS | 32 32 | | |
| | | | SKS | 32 45 | | |
| | | | PS | 33 03 | | |
| | | | PPS | 33 21 | | |
| | | | SS | 37 23 | | |
| | | | SSS | 40 40 | | |
| | Dehra Dun | NE | eP | 16 22 52 | | Other phases not clear. |
| | | | iS | 32 42 | | |
| | Calcutta | E | eP | 16 22 55 | 8690 | |
| | | | iS | 32 50 | | |
| | Hyderabad | E | eP | 16 23 42 | 9390 | |
| | | | eS | 34 09 | | |
| | | | SS | 39 24 | | |
| | | | LR | 52 27 | | |
| | | | M | 57 12 | | Period = 24 Secs. |
| | | N | M | 47 34 | | Gr. dis. = 10 μ |
| | | | | | | Period = 15 secs. |
| | | | | | | Gr. dis. = 6 μ |
| | Poona | Z | iP | 16 23 53 | 9400 | Initial ground movement |
| | | N | eS | 34 20 | | towards North, |
| | | | PS | 35 20 | | Rarefaction. |
| | | | LR | 51 20 | | |
| | | | M | 59 17 | | |
| | Bombay | NE | eP | 16 23 57 | 9400 | |
| | | | S | 34 24 | | |
| | | | e | 34 45 | | |
| | | | e | 35 43 | | |
| | | | SS | 41 30 | | |
| | Port Blair | EW | iS | 16 33 47 | | |
| | Kodaikanal | E | e | 16 34 43 | | Initial ground movement |
| | | | | | | East. |
| | Colombo | E | e | 16 34 49 | | |
| | | | e | 17 05 54 | | |
| | | | M | 14 04 | | Amp : 0.2 m.m. |
| 01 | Tooklai | E | eP | 18 10 09 | | Slight. |
| 01 | Shillong | Z | iP | 18 46 33 | | Very slight, distant. |
| | | | | | | Rarefaction. |
| 01 | Shillong | Z | eP | 20 58 45 | | Very slight, local. |
| 01 | Shillong | Z | eP | 21 31 35 | | Slight, local. |
| 01 | Shillong | Z | iP | 22 19 49 | | Slight, local. |

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| | | | | | | |
|----|---|---------|---|---|------|--|
| 01 | Chatra | Z | eP | 22 20 49 | | Very mild. |
| 02 | Shillong | Z | eP | 00 08 27 | | Very slight, distant. |
| 02 | Dehra Dun | NE | e | 12 26 23 | | Feeble. |
| 02 | Kodaikanal | E | e | 13 10 08 | | Tremor. |
| 02 | Hyderabad | N | M | 13 20 27 | | Period = 18 secs. Gr. dis = 9 μ . |
| 02 | Shillong | Z | iP | 16 39 52 | | Slight, distant. Rarefaction. |
| 02 | Shillong | Z | eP i | 17 42 11 42 45 | | Slight, local. |
| 02 | Epc:- 19.3°N, 93.6°E, Burma. - H = 18h. 08m. 20s. (Shillong). 18.6°N, 94.9°E, - h = 104 km. - H = 18h. 08m. 12.4s. (USCGS). | | | | | |
| | Port Blair | E | iP iS M | 18 09 52 11 07 11 57 | 720 | Slight. |
| | Calcutta | NE | iP i | 18 09 54 11 04 | | Slight, initial ground motion East. |
| | Shillong | ZN | iP iS | 18 09 59 11 15 | 730 | Slight, rarefaction. |
| | Tocklai | E | eP iS | 18 10 12 11 40 | | Slight. |
| | Bokaro | NE E | iP PPP LQ eS SSS M | 18 10 30 10 42 11 56 12 08 12 26 13 02 | 940 | Slight. |
| | Chatra | ZE E | iP PP PPP P* Pg LQ S SS LR SSS S* Sg/M | 18 10 46 10 53 11 00 11 13 11 42 12 34 12 44 12 57 13 05 13 07 13 23 13 56 | 1150 | Rarefaction. |
| | Madras | E | iP e | 18 11 38 16 30 | | Slight, initial ground movement West. |

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| | | | | | | |
|----------------|--|---------|-------|----------|------|--|
| 02 (Contd.) | Vizianagram | NE | e | 18 11 56 | | Slight. |
| | | | e | 12 06 | | |
| | | | S | 13 33 | | |
| | | | SS | 13 50 | | |
| | | | SSS | 14 00 | | |
| | | | M | 14 29 | | |
| | Kodaikanal | E | e | 18 12 11 | | Initial ground movement East, tremor. |
| | Dehra Dun | NE N | eP | 18 12 36 | | Slight. |
| | | | PPP | 13 01 | | |
| | | | SS | 16 10 | | |
| | | | SSS | 16 36 | | |
| | | | e | 17 02 | | |
| | | | M | 19 02 | | |
| | Poona | Z | eP | 18 12 42 | 2090 | Slight. |
| | | | PP | 13 01 | | |
| | | | PPP | 13 07 | | |
| | | | eS | 16 09 | | |
| | | N | LQ | 16 15 | | |
| | | | SS | 16 22 | | |
| | | | LR | 16 57 | | |
| | | | | | | |
| | Bombay | NE | eP | 18 13 12 | | Slight. |
| | | | e | 17 09 | | |
| | Hyderabad | N | S | 18 14 55 | | |
| | | | M | 21 39 | | |
| | Bombay | NE E | e | 18 16 41 | | Slight. |
| | | | e | 20 11 | | |
| 03 | Epc:- 29.8°N, 68.2°E, West Pakistan. - h = 36 km. - H = 00h. 49m. 11.8s. (USCGS). | | | | | |
| | Dehra Dun | NE N | eP | 00 51 26 | 830 | Slight. |
| | | | PP | 51 34 | | |
| | | | iS | 52 52 | | |
| | | | SS,LR | 53 03 | | |
| | | | SSS | 53 12 | | |
| | | | Sg,M | 53 39 | | |
| | Poona | Z N | eP | 00 52 06 | | Slight. |
| | | | e | 55 34 | | |
| | | | e | 55 50 | | |
| | | | LR | 56 09 | | |
| | | | M | 57 43 | | |
| | Chatra | ZE E | eP | 00 53 10 | 1950 | Moderate. |
| | | | PP | 53 27 | | |
| | | | PPP | 53 40 | | |
| | | | S | 56 25 | | |
| | | | SS | 56 41 | | |
| | | | SSS | 56 55 | | |
| | | | PcP | 57 49 | | |
| | | | M | 58 34 | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | REMARKS |
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| | | | | h. m. s. km. | |
| <u>October, 1960.</u> | | | | | |
| 03 (Contd.) | Shillong | Z | eP | 00 54 00 | Slight, distant. |
| | Kodaikanal | E | e | 00 55 18 | Tremor. |
| | Bokaro | NE | e | 00 56 09 | Slight. |
| | | | e | 58 09 | |
| | Vizianagram | N | e | 00 57 02 | Tremor. |
| | Calcutta | E | e | 00 57 30 | Slight. |
| | | | e | 59 25 | |
| | Hyderabad | E | M | 00 58 48 | Period = 6 secs. |
| | | N | M | 59 16 | Gr. dis. = 3 μ |
| | | | | | Period = 9 secs. |
| | | | | | Gr. dis. = 7 μ . |
| | Colombo | E | P | 00 58 49 | |
| | | | L | 01 04 51 | |
| | | | M | 06 06 | Amp : = 0.4 |
| | Madras | E | e | 00 59 44 | Presumably surface waves. |
| 03 | Shillong | Z | iP | 02 41 21 | Slight, distant. Rarefaction. |
| 03 | Chatra | Z | e | 02 41 47 | Feeble, distant. |
| 03 | Shillong | Z | i | 04 31 27 | Slight, distant. |
| 03 | Chatra | Z | i | 10 21 59 | Feeble, distant. |
| 03 | Shillong | Z | iP | 10 22 18 | Slight, distant. Rarefaction. |
| 03 | Shillong | Z | i | 11 07 15 | Slight, near. |
| 03 | Shillong | Z | iP | 14 23 47 | Slight, tremor compression. |
| 03 | Chatra | Z | i | 15 25 43 | Feeble, distant. |
| | | | e | 26 07 | |
| 03 | Shillong | Z | iP | 15 26 59 | Slight, near. |
| | | | i | 27 28 | |
| 03 | Shillong | Z | iP | 16 28 31 | Slight, tremor rarefaction. |
| 03 | Shillong | Z | iP | 16 44 17 | Slight, tremor rarefaction. |
| 03 | Shillong | Z | iP | 17 22 22 | Slight, distant compression. |
| 03 | Shillong | Z | eP | 17 44 06 | Slight, near. |

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

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| | | | | | | |
|----|--|----|------|----------|------|---|
| 03 | Shillong | Z | eP | 18 37 12 | | Slight, near. |
| 03 | Epc:- 0.7°S, 103°E, Off Coast of Sumatra. -h = 51 km. - H = 19h. 50m. 48.8s. (USCGS). | | | | | |
| | Port Blair | E | e | 19 55 56 | | Slight. |
| | | | e | 20 00 37 | | |
| | | | e | 02 45 | | |
| | Colombo | E | P | 19 56 16 | 2300 | |
| | | | S | 20 01 03 | | |
| | | | L | 04 49 | | |
| | | | M | 06 06 | | Amp : 0.4 mm. |
| | Shillong | Z | iP | 19 57 21 | | Slight, Compression. |
| | | | eP | 19 57 27 | 3760 | Slight. |
| | Hyderabad | N | eS | 20 02 51 | | |
| | | | M | 09 39 | | Period = 18 secs. Gr. dis. = 8 μ . |
| | Chatra | Z | e | 19 57 48 | | Feeble, distant. |
| | | | i | 20 00 16 | | |
| | Bombay | NE | eP | 19 58 13 | 4220 | Slight. |
| | | | PPP | 59 45 | | |
| | | | eS | 20 04 06 | | |
| | Dehra Dun | NE | e(P) | 19 58 49 | 4740 | Slight. |
| | | | i(S) | 20 05 13 | | |
| | Kodaikanal | E | e | 20 02 27 | | Tremor, initial ground movement West. |
| | Calcutta | E | e ? | 20 02 44 | | Slight, tremor. |
| 03 | Shillong | Z | eP | 21 03 28 | | Very slight, tremor. |
| 03 | Shillong | Z | eP | 21 04 43 | | Very slight, distant. |
| 04 | Shillong | Z | iP | 04 02 07 | 170 | Slight, compression. |
| | | | iS | 02 28 | | |
| 04 | Port Blair | E | iP | 06 43 55 | 110 | Slight. |
| | | | iS | 44 10 | | |
| 04 | Shillong | Z | eP | 06 47 04 | | Slight, distant. |
| 04 | Chatra | Z | e | 06 47 28 | | Feeble, distant. |
| 04 | Vizianagram | N | e | 06 48 34 | | Slight. |
| 04 | Shillong | Z | eP | 08 12 07 | 100 | Slight. |
| | | | iSg | 12 18 | | |
| 04 | Shillong | Z | eP | 10 02 14 | | Slight, distant. |

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

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| | | | | | | |
|----------------|-----------|----|--------------|----------------------------|------|-------------------------------|
| 04 (Contd.) | Chatra | ZE | e | 10 02 31 | | Feeble, distant. |
| | Dehra Dun | NE | e(P) i(S) | 10 03 33 13 48 | 9130 | Slight, phases not clear. |
| | Bombay | NE | e | 10 14 06 | | Slight, deep. |
| 04 | Shillong | Z | eP iSg | 10 41 21 41 29 | 70 | Slight. |
| 04 | Shillong | Z | eP | 10 52 59 | | Slight, distant. |
| 04 | Shillong | Z | eP | 21 46 43 | | Slight, near. |
| 05 | Shillong | Z | eP | 00 44 13 | | Slight, distant. |
| 05 | Dehra Dun | NE | e i i | 02 03 17 06 59 11 12 | | Slight, phases not clear. |
| 05 | Shillong | Z | e | 03 56 07 | | Slight, distant. |
| 05 | Shillong | Z | eP | 07 03 43 | | Slight, distant. |
| 05 | Shillong | Z | eP | 08 01 03 | | Slight, near. |
| 05 | Shillong | Z | iP | 12 42 32 | | Slight, distant rarefaction. |
| 05 | Shillong | Z | eP i | 18 44 43 44 53 | | Slight. |
| 05 | Shillong | Z | eP | 22 50 13 | | Slight, near. |
| 05 | Shillong | Z | eP | 22 50 13 | | Slight, near. |
| 05 | Shillong | Z | iPg iSg | 23 37 28 37 39 | 90 | Slight, rarefaction. |
| 05 | Chatra | Z | eP eS | 27 38 25 39 26 | 560 | Feeble. |
| 06 | Shillong | Z | iP | 04 39 22 | | Slight, distant, compression. |
| 06 | Shillong | Z | eP | 05 55 32 | | Slight, distant. |
| 06 | Shillong | Z | eP | 09 30 21 | | Slight, near. |
| 06 | Shillong | Z | iP | 16 25 17 | | Slight, distant compression. |
| 06 | Chatra | Z | i | 16 25 23 | | Feeble, distant compression. |
| 06 | Dehra Dun | NE | e | 16 29 34 | | Feeble. |
| 06 | Shillong | Z | iP | 16 36 39 | | Slight, distant compression. |

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| | | | | h. m. s. | km. | |

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| | | | | | | |
|----|--|----|--|---|------|--------------------------------------|
| 06 | Shillong | Z | iP | 16 51 25 | | Slight, distant compression. |
| 06 | Chatra | Z | i | 16 51 51 | | Feeble, distant compression. |
| 06 | Shillong | Z | iP | 18 12 01 | | Slight, distant compression. |
| 06 | Chatra | Z | i | 18 12 32 | | Feeble, distant rarefaction. |
| 06 | Shillong | Z | iP | 18 16 55 | | Slight, distant tremor, compression. |
| 06 | Dehra Dun | NE | e | 20 07 21 | | Feeble. |
| | Chatra | Z | e | 20 07 58 | | Feeble, distant. |
| | Shillong | Z | iP | 20 08 11 | | Slight, distant rarefaction. |
| 06 | Shillong | Z | iP ₂ i | 20 47 27 47 51 | | Slight, local. |
| | Chatra | Z | i i | 20 47 48 47 55 | | Feeble, distant compression. |
| 07 | Shillong | Z | iP i | 02 30 41 31 07 | | Slight, local. |
| 07 | Shillong | Z | iP | 03 28 03 | | Slight, distant tremor. |
| 07 | Shillong | Z | iP iSg | 04 11 41 12 11 | 220 | Slight, local. |
| 07 | Chatra | Z | e | 04 13 58 | | Feeble, distant. |
| 07 | Shillong | Z | eP i | 06 17 05 17 17 | | Slight, near. |
| 07 | Epc:- 7.4° S, 130.7° E, Banda Sea. - h = about 45 km. - H = 15h. 18m. 30.8s. (USCGS) Mag : 6 $\frac{1}{2}$ -6 $\frac{3}{4}$ (Berk), 6 $\frac{3}{4}$ (Pas). | | | | | |
| | Port Blair | E | iP PP PPP PcS/ScP eS SS LQ SSS IR M | 15 26 24 28 09 28 39 32 13 32 43 35 51 36 17 36 36 38 21 41 51 | 4650 | |

| DATE | STATION | COMPT. | PHASE | G. M. T. |  | REMARKS |
|-----------------------|-------------|--------|--------|----------|---|---|
| | | | | h. m. s. | km. | |
| <u>October, 1960.</u> | | | | | | |
| 07 (Contd.) | Shillong | ZNE | iP | 15 27 25 | 5550 | Initial ground movement towards West and Compression. |
| | | | PcP | 28 46 | | |
| | | | PP | 29 22 | | |
| | | | PPP | 30 18 | | |
| | | | iS | 34 36 | | |
| | | | PS | 34 43 | | |
| | | | PPS | 34 49 | | |
| | | | ScS | 37 16 | | |
| | | | SS | 38 05 | | |
| | Shillong | ZNE | SSS | 15 39 31 | | |
| | | | IR | 41 45 | | |
| | | | M | 46 11 | | |
| | Tocklai | E | eP | 15 27 20 | | |
| | Calcutta | E | e? | 15 27 32 | | |
| | | | i | 34 54 | | |
| | Colombo | E | P | 15 27 43 | 5900 | |
| | | | S | 35 13 | | |
| | | | L | 45 21 | | |
| | | | M | 51 21 | | Amp : = 2.5 m.m. |
| | Bokaro | E | iP | 15 27 54 | 6030 | Initial ground motion towards West. |
| | | | e | 28 29 | | |
| | | | e | 28 54 | | |
| | | | iS | 35 31 | | |
| | | | LQ | 41 41 | | |
| | | | LR | 44 28 | | |
| | | | M | 49 01 | | |
| | Chatra | ZNE | iP | 15 27 55 | 5950 | Initial ground movement towards North West and compression. |
| | | NE | PcP | 28 56 | | |
| | | | PP | 30 00 | | |
| | | | PPP | 31 25 | | |
| | | | PcS | 32 58 | | |
| | | | i | 35 32 | | |
| | | | PS | 35 40 | | |
| | | | PPS | 35 46 | | |
| | | | ScS | 37 38 | | |
| | | | SS | 39 01 | | |
| | | | LQ/SSS | 40 45 | | |
| | | NE | M | 51/00 | | Period = 25 secs. Gr. dis. = 60 μ . |
| | Madras | E | iP | 15 27 56 | 5930 | Initial ground movement towards West. |
| | | | PcP | 28 49 | | |
| | | | PP | 30 06 | | |
| | | | PPP | 31 19 | | |
| | | | i | 35 28 | | |
| | | | PS | 35 34 | | |
| | | | ScS | 37 29 | | |
| | | | M | 47 31 | | |
| | Vizianagram | NE | eP | 15 27 58 | 6000 | |
| | | | PcP | 29 06 | | |
| | | N | e | 35 20 | | |
| | | | e | 35 30 | | |

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

October, 1960.

| | | | | | | |
|----------------|------------|--------|-----------------|----------|---|--|
| 07 (Contd.) | Kodaikanal | E | iP | 15 28 07 | 6140 | Period = 20 secs. Gr. dis. = 32 μ |
| | | | PS | 36 01 | | |
| | | | SS | 39 43 | | |
| | | | LQ | 41 55 | | |
| | | | LR ^u | 44 49 | | |
| | | | M | 49 22 | | |
| Hyderabad | NE | iP | 15 28 21 | 6300 | Initial ground movement towards North and West. Period = 30 secs. Gr. dis. = 6 μ . Period = 24 secs. Gr. dis. = 26 μ | |
| | | e | 28 49 | | | |
| | | PP | 30 40 | | | |
| | N | PcS | 33 01 | | | |
| | | iS | 36 13 | | | |
| | | PS | 36 31 | | | |
| | E | e | 36 58 | | | |
| | | SoS | 39 04 | | | |
| | | SS | 40 01 | | | |
| | | LQ | 42 55 | | | |
| | | LR | 45 21 | | | |
| | | M | 50 55 | | | |
| | | M | 51 49 | | | |
| Poona | Z | iP | 15 28 47 | 6810 | Initial ground movement towards North, West and compression. | |
| | | PcP | 29 27 | | | |
| | | PPP | 32 34 | | | |
| | | iS | 37 07 | | | |
| | | SS | 40 57 | | | |
| | | SSS | 43 49 | | | |
| | | LQ | 44 45 | | | |
| | | M | 53/00 | | | |
| Bombay | NE | eP | 15 28 54 | 6970 | Period = 22 secs. Gr. dis. = 13 μ . Period = 25 secs. Gr. dis. = 23 μ . | |
| | | PcP | 29 36 | | | |
| | E | PcS | 33 29 | | | |
| | | eS, iS | 37 22 | | | |
| | | PPS | 38 06 | | | |
| | N | i | 38 36 | | | |
| | | M | 57 58 | | | |
| | N | M | 57 36 | | | |
| Dehra Dun | NE | eP | 15 28 59 | 6970 | | |
| | | PP | 31 22 | | | |
| | | i | 37 19 | | | |
| | | SS | 41 17 | | | |
| | | SSS | 44 04 | | | |
| | | LQ | 44 53 | | | |
| | | LR | 48 28 | | | |
| | | M | 53 38 | | | |
| 07 | Chatra | Z | i | 19 55 27 | | Feeble, distant compression. |
| 07 | Bombay | | | | | Slight surface waves recorded around 21h. 30m. G.M.T. in Sprengnether and Milne-shaw. |

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

October, 1960.

| | | | | | | |
|----|---|----------------------|--|---|------|---|
| 08 | Shillong | Z | eP | 03 02 54 | | Slight, near. |
| 08 | Epc:- 40.0°N, 129.7°E, Sea of Japan, - h = about 608 km. - H = 05h. 53m. 01.1s (USCGS). Mag. : $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas), $6\frac{1}{2}$ - $6\frac{3}{4}$ (Berk). | | | | | |
| | Tocklai | E | iP iS | 05 58 49 06 03 22 | 3590 | Initial ground movement towards East. |
| | Shillong | Z E | iP iS | 05 59 07 06 03 53 | 3790 | |
| | Chatra | ZNE NE N NE | iP pP PP iS sS SS | 05 59 32 06 01 20 01 22 04 40 07 54 08 02 | 4160 | |
| | | N | i? | 08 31 | | |
| | Calcutta | E | iP iS | 05 59 44 06 05 04 | 4370 | Initial ground motion towards East. |
| | Bokaro | NE E | iP e iS e | 05 59 53 06 01 11 05 16 09 06 | 4420 | |
| | Dehra Dun | NE N | eP e P iS e e e e | 06 00 15 01 37 01 59 05 55 08 16 08 48 10 10 12 58 | 4730 | |
| | Port Blair | N | iP e e pP iS sS | 06 00 15 01 02 01 35 01 59 05 58 09 02 | 4780 | |
| | Vizianagram | E | iP pP iS sS | 06 00 37 02 24 06 35 09 22 | 5040 | Initial ground motion towards North. |
| | Hyderabad | NE E | iP pP PP e | 06 01 04 02 58 03 07 06 24 | 5520 | Initial ground motion towards East and North. |
| | | NE | iS | 07 28 | | |
| | | N | e | 07 43 | | |
| | | NE | PPS | 09 46 | | |
| | | N | eS | 10 43 | | |

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

October, 1930.

| | | | | | | |
|----------------|-----------------------|----|-----|----------|------|--|
| 08 (Contd.) | Hyderabad (Contd.) | N | SS | 06 11 28 | | |
| | | | LR | 13 04 | | |
| | | E | LR | 13 13 | | |
| | | | M | 15 58 | | Period = 15 secs. Gr. dis. = 12 μ . |
| | | N | M | 16 43 | | Period = 15 secs. Gr. dis. = 9 μ . |
| | Madras | E | iP | 06 01 16 | 5390 | Initial ground motion towards East. |
| | | | pP | 03 08 | | |
| | | | e | 03 51 | | |
| | | | iS | 07 49 | | |
| | | | e | 08 26 | | |
| | Madras | E | PS | 06 09 58 | | |
| | | | SS | 11 08 | | |
| | | | SS | 11 59 | | |
| | Poona | Z | iP | 06 01 22 | 5800 | Initial ground movement towards East, North and Rarefaction. |
| | | N | pP | 03 12 | | |
| | | | e | 03 58 | | |
| | | | iS | 08 02 | | |
| | | | SS | 11 19 | | |
| | | | M | 25 26 | | |
| | Bombay | NE | iP | 06 01 29 | 5870 | |
| | | | pP | 03 22 | | |
| | | | iS | 08 12 | | |
| | | | PS | 10 09 | | |
| | | | SSS | 15 05 | | |
| | Kodaikanal | E | iP | 06 01 39 | 6130 | |
| | | | pP | 03 24 | | |
| | | | PF | 04 09 | | |
| | | | iS | 08 39 | | |
| | | | SS | 12 03 | | |
| | | | e | 13 06 | | |
| | | | e | 13 18 | | |
| | | | e | 15 27 | | |
| | | | M | 19 30 | | Period = 15 secs. Gr. dis. = 14 μ . |
| | Colombo | E | P | 06 01 45 | | |
| | | | e | 08 50 | | |
| | | | M | 10 45 | | Amp : = 7.0 mm. |
| 08 | Shillong | Z | SP | 06 29 47 | | Slight, distant. |
| 08 | Shillong | Z | iP | 12 01 39 | | Slight, distant compression. |
| 08 | Shillong | Z | i | 13 11 09 | | Very slight, near. |
| 08 | Shillong | Z | iP | 13 27 24 | | Slight, tremor rarefaction. |
| 08 | Shillong | Z | iP | 14 00 11 | | Slight, distant compression. |

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| | | | | | | |
|----|---|------------------------|---|---|------|---|
| 08 | Shillong | Z | eP | 15 46 25 | | Slight, local. |
| 08 | Epc:- 7.9°N, 92.9°E, Nicobar Islands. - h = about 84 km. - H = 24h. 40m. 06.6s. (USCGS). | | | | | |
| | Port Blair | E | iP iS | 20 41 01 41 49 | 450 | Moderate. |
| | Calcutta | NE | i | 20 47 21 | | |
| | Colombo | E | P L M | 20 43 13 46 21 49 01 | 1420 | Amp : = 8.5 m.m. |
| | Vizianagram | NE | eP PP PPP S SS SSS M | 20 43 14 43 26 43 40 45 41 45 57 46 21 47 24 | 1440 | Slight. |
| | Madras | E | iP PPP e e e e e e | 20 43 17 43 43 47 05 47 26 47 36 47 50 48 05 50 00 | 1450 | Moderate, initial ground movement towards West. |
| | Hyderabad | NE N NE N | iP PPP e SS LR M | 20 44 01 44 21 44 40 47 25 48 21 49 37 | 1830 | Moderate, initial ground motion towards South and East. Period = 18 secs. Gr. dis. = 24 μ . |
| | Bokaro | NE | iP e SS i e M | 20 44 05 45 03 47 33 48 40 49 48 52 25 | 1870 | Moderate, initial ground movement towards West. Period = 19 secs. Gr. dis. = 42 μ . |
| | Shillong | Z E | iP i | 20 44 05 49 40 | 1870 | |
| | Tocklai | E | e | 20 44 27 | | Slight. |
| | Chatra | ZNE NE | iP PP e sS SSS | 20 44 33 44 54 45 11 48 22 48 43 | 2120 | Moderate, compression. |

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| | | | | | | |
|----------------|--------------------|-------|-------------------|--|--|--|
| 08 (Contd.) | Chatra (Contd.) | NE | e | 20 49 00 | | |
| | | | e | 49 11 | | |
| | | | e | 49 33 | | |
| | | E | M | 21 00/00 | | Period = 12 secs. Gr. dis. = 16 μ . |
| | Kodaikanal | E | e | 20 44 38 | 2420 | |
| | | | e | 48 35 | | |
| | | | e | 50 05 | | |
| | | | e | 51 56 | | |
| Poona | Z | iP | 20 44 51 | 2310 | Moderate, initial ground movement towards North, west and compression. | |
| | | PPP | 45 21 | | | |
| | N | SS | 49 02 | | | |
| | | LQ | 49 14 | | | |
| | | SSS | 49 36 | | | |
| | | e | 49 57 | | | |
| | | e | 50 25 | | | |
| | M | 52/53 | | | | |
| Bombay | NE | eP | 20 45 05 | 2450 | Slight. | |
| | E | e | 46 28 | | | |
| | | eS | 49 05 | | | |
| | NE | i | 49 21 | | | |
| | N | LQ | 50 01 | | | |
| | NE | LR | 51 02 | | | |
| | E | M | 54 26 | | | |
| | | | | Period = 19 secs. Gr. dis. = 15 μ . | | |
| | N | M | 21 00 37 | | Period = 13 secs. Gr. dis. = 11 μ . | |
| | | | | | | |
| | | | | | | |
| Dehra Dun | NE | eP | 20 45 42 | 2890 | Moderate. | |
| | N | PPP | 46 42 | | | |
| | | e | 47 01 | | | |
| | | i | 50 45 | | | |
| | | e | 52 16 | | | |
| | | e | 52 32 | | | |
| | | e | 52 59 | | | |
| | | e | 53 56 | | | |
| M | 56 37 | | Period = 10 secs. | | | |

09 Epc:- 40.8°N, 141.2°E, Near Coast of Northern Honshu, Japan.
 -h = 155 km. - H = 09h. 00m. 42.0s. (USCGS).
 Mag : 6 $\frac{1}{4}$ (Pas), 6 (Pal).

| | | | | | |
|----------|----|-------|----------|------|---|
| Tocklai | E | eP | 09 06 42 | | Initial ground movement towards East. |
| Shillong | ZE | iP | 09 08 34 | 5030 | Rarefaction. |
| | | iS | 14 56 | | |
| Chatra | NE | iP | 09 08 50 | 5330 | Rarefaction. |
| | | eP | 09 48 | | |
| | PP | 10 53 | | | |
| | iS | 15 39 | | | |
| | SS | 17 07 | | | |
| | SS | 19 10 | | | |
| | N | M | 32/00 | | Period = 14 secs. Gr. dis. = 7 μ . |



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

October, 1960.

| DATE | STATION | COMPT. | PHASE | G. M. T. | REMARKS |
|----------------|-------------|-------------------|-------|--------------|---|
| | | | | h. m. s. km. | |
| 09 (Contd.) | Bokaro | NE | iP | 09 09 19 | 5600 Initial ground motion towards North. |
| | | | e | 10 42 | |
| | | | iS | 16 13 | |
| | | | e | 18 58 | |
| | Dehra Dun | NE N | eP | 09 09 38 | 5880 |
| | | | PP | 11 51 | |
| | | | PPP | 12 40 | |
| | | | iS | 16 48 | |
| | | | e | 20 20 | |
| | | | LR | 23 31 | |
| | | | M | 27 40 | |
| | Port Blair | N | iP | 09 09 38 | 5900 |
| | | | iS | 16 50 | |
| | | | sS | 18 12 | |
| | Vizianagram | N | eP | 09 09 57 | 6200 |
| | | | pP | 10 21 | |
| | | | PP | 12 01 | |
| | | | S | 17 24 | |
| | Hyderabad | NE E | iP | 09 10 26 | 6730 East ward North ward. |
| | | | PcP | 11 28 | |
| | | | e | 12 31 | |
| | | NE E N E | e | 14 01 | |
| | | | iS | 18 22 | |
| | | | e | 18 44 | |
| | | N E | ScS | 20 01 | |
| | | | e | 21 57 | |
| | | | e | 24 45 | |
| | | N E | LR | 27 10 | |
| | | | LR | 27 40 | |
| | | | M | 32 28 | |
| | | | N | M | |
| | | | | | Period = 14 secs. Gr. dis. = 10 μ . |
| | Madras | E | iP | 09 10 36 | 6970 Initial ground movement towards East. |
| | | | PcP | 11 24 | |
| | | | e | 12 50 | |
| | | | e | 14 17 | |
| | | | iS | 18 44 | |
| | | | e | 18 58 | |
| | | | SS | 19 08 | |
| | | | | | |
| | Poona | Z | iP | 09 10 46 | 7000 Initial ground movement towards North, East and rarefaction. |
| | | | pP | 11 20 | |
| | | | e | 13 02 | |
| | | N | PcS | 15 19 | |
| | | | iS | 18 57 | |
| | | | e | 19 09 | |
| | | | e | 22 47 | |
| | | M | 35/00 | | |

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

October, 1960.

| DATE | STATION* | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|----------------|-------------|--------|------------|----------------------|-----------------|------------------------------|
| 09 (Contd.) | Bombay | NE | iP | 09 10 49 | 7110 | |
| | | | e | 13 00 | | |
| | | | ppp | 14 42 | | |
| | | | iS | 19 42 | | |
| | | | e | 19 35 | | |
| | Colombo | NE | e | 09 19 35 | | |
| | | | e | 32 50 | | |
| 09 | Chatra | Z | i | 12 13 53 | | Feeble, distant rarefaction. |
| 09 | Shillong | Z | iP | 13 13 27 | | Slight, distant rarefaction. |
| 09 | Shillong | Z | eP | 13 39 27 | | Very slight, distant. |
| 09 | Shillong | Z | iP | 17 54 47 | | Slight, distant compression. |
| 09 | Shillong | Z. | iPg iSg | 18 04 15 04 25 | 90 | Slight. |
| 09 | Chatra | Z | i | 18 06 00 | | Feeble, distant compression. |
| | Port Blair | N | iPg iSg | 19 26 00 26 05 | 50 | Slight. |
| 09 | Shillong | Z | eP | 20 28 49 | | Slight, distant. |
| 09 | Shillong | Z | iP | 20 44 41 | | Slight, distant compression. |
| 09 | Dehra Dun | NE | e | 21 40 24 | | Tremor. |
| 09 | Chatra | Z | e | 21 42 15 | | Feeble, distant. |
| 09 | Shillong | Z | eP | 21 45 22 | | Slight, distant. |
| 09 | Shillong | Z | iP | 22 23 08 | | Very slight, near. |
| 09 | Shillong | Z | eP | 22 28 22 | | Very slight, distant. |
| 10 | Shillong | Z | iP | 15 45 11 | | Slight, distant rarefaction. |
| 10 | Shillong | Z | iP | 16 02 32 | | Slight, distant compression. |
| | Chatra | Z | iP i | 16 05 12 09 35 | | Very feeble, compression. |
| 10 | Shillong | Z | iP | 16 25 23 | | Slight, distant rarefaction. |
| 10 | Vizianagram | NE | i | 19 54 13 | | Slight, tremor. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|--|--------|-----------------|----------------------------|-----------------|---|
| <u>October, 1960.</u> | | | | | | |
| 10 | Shillong | Z | iP | 21 52 17 | | Slight, distant compression. |
| 10 | Chatra | Z | iP i | 21 52 45 52 46 | | Feeble, compression. |
| 10 | Chatra | Z | iP | 21 54 37 | | Feeble, rarefaction. |
| 10 | Shillong | Z | eP | 22 15 05 | | Slight, distant compression. |
| 10 | Chatra | Z | eP? | 22 16 50 | | Very mild. |
| 10 | Shillong | Z | iP | 23 59 06 | | Very slight, distant, rarefaction. |
| 11 | Shillong | Z | eP | 04 58 21 | | Slight, distant. |
| 11 | Tocklai | E | iPg iSg | 06 31 49 31 54 | 130 | Slight. |
| 11 | Tocklai | E | iPg iSg | 12 11 26 11 29 | 20 | Slight. |
| 11 | Chatra | Z | eP? | 14 00 42 | | Very feeble. |
| 11 | Epc:- 16.1°S, 67.1°E, Mascarene Islands Region. - h = 100 km. - H = 18h. 26m. 36.6s. (USCGS). | | | | | |
| | Hyderabad | N | eP e | 18 33 29 39 07 | | Slight. |
| | | E | M | 45 04 | | Period = 8 secs. Gr. dis. = 3 μ . |
| | | N | M | 45 10 | | Period = 15 secs. Gr. dis. = 4 μ . |
| | Bombay | N | eP eS | 18 33 32 39 04 | 3090 | Very slight. |
| | Chatra | Z | eP | 18 35 03 | | Very feeble. |
| | Shillong | Z | iP | 18 35 10 | | Slight, distant compression. |
| | Dehra Dun | NE | e | 18 42 07 | | Feeble. |
| 11 | Vizianagram | NE | i | 21 13 29 | | Slight. |
| 11 | Chatra | Z | iPg Sg S* | 23 58 36 58 44 58 46 | 80 | Very mild. |
| 12 | Shillong | Z | iP | 00 29 57 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 00 30 23 | | Very feeble, distant compression. |

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| | | | | | |
|----|---|----|------------|-------------------|--------------------------------------|
| 12 | Chatra | Z | iP | 06 06 04 | Feeble, rarefaction. |
| | | e | e | 07 19 | |
| 12 | Shillong | Z | iP | 06 24 38 | Slight, local. |
| 12 | Shillong | Z | iP | 07 10 36 | Slight, distant tremor, rarefaction. |
| 12 | Shillong | Z | iP | 07 36 22 | Slight, local. |
| 12 | Shillong | Z | iPg iSg | 08 05 03 05 28 | Slight, local. |
| 12 | Shillong | Z | iP | 10 05 37 | Slight, distant rarefaction. |
| 12 | Shillong | Z | iP | 10 40 54 | Slight, distant rarefaction. |
| 12 | Shillong | Z | eP | 12 30 59 | Slight, distant. |
| 12 | Dehra Dun | NE | e | 12 35 12 | Tremor. |
| 12 | Shillong | Z | iP | 17 21 17 | Slight, distant compression. |
| 12 | Chatra | Z | iP | 17 21 39 | Very feeble, distant compression. |
| 12 | Shillong | Z | eP | 17 51 30 | Slight, near. |
| 12 | Chatra | Z | eP ? | 18 30 51 | Very mild, near. |
| 12 | Shillong | Z | iP | 18 40 05 | Slight, distant compression. |
| 12 | Shillong | Z | iP | 23 01 35 | Slight, distant rarefaction. |
| 13 | Shillong | Z | iP | 02 30 47 | Slight, distant compression. |
| 13 | Poona | Z | e | 06 09 14 | Tremor. |
| 13 | Port Blair | E | e | 12 37 18 | Slight. |
| 13 | Chatra | Z | i | 12 40 34 | Feeble, distant rarefaction. |
| 13 | Epc:- 51.2°N, 159.2°E, Kamchatka. - H = 14h. 52m. 33s. (Shillong). 54.8°N, 161.2°E, - h = 35 km. - H = 14h. 52m. 34.7s. (USCGS). Mag : 6 $\frac{3}{4}$ (Pas), 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ (Berk). | | | | |
| | Shillong | Z | iP | 15 02 26 | 6270 |
| | | | iS | 10 17 | |

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

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| | | | | | | |
|----------------|------------|-----|------|----------|-------|---------------------------------------|
| 13 (Contd.) | Chatra | ZNE | eP | 15 02 37 | 6700 | |
| | | NE | PcP | 03 09 | | |
| | | | PP | 04 55 | | |
| | | | PPP | 06 25 | | |
| | | | PcS | 07 08 | | |
| | | | eS | 10 51 | | |
| | | | PS | 11 09 | | |
| | | | PPS | 11 21 | | |
| | | | ScS | 12 06 | | |
| | | | i | 12 29 | | |
| | | | i | 12 43 | | |
| | | | eSS | 14 53 | | |
| | | | eSSS | 17 29 | | |
| | | | NE | M | 32/00 | |
| | Calcutta | E | e ? | 15 02 58 | | |
| | | | e | 12 46 | | |
| | Dehra Dun | NE | eP | 15 02 59 | 6810 | |
| | | N | PP | 05 17 | | |
| | | | PPP | 06 48 | | |
| | | | iS | 11 19 | | |
| | | | SS | 15 37 | | |
| | | | SSS | 18 14 | | |
| | | | LQ | 19 10 | | |
| | | | LR | 22 04 | | |
| | | | M | 28 03 | | |
| | Bokaro | NE | eP | 15 03 00 | 6900 | |
| | | N | PP | 05 18 | | |
| | | | PPP | 06 51 | | |
| | | | eS | 11 25 | | |
| | | | PPS | 11 50 | | |
| | | | ScS | 12 52 | | |
| | | | M | 27 03 | | Period = 20 secs. Gr. dis. = 18 μ. |
| | | E | M | 27 03 | | Period = 26 secs. Gr. dis. = 43 μ. |
| | Port Blair | N | iP | 15 03 38 | 7510 | |
| | | | PP | 05 54 | | |
| | | | iS | 12 34 | | |
| | | | LQ | 21 14 | | |
| | | | M | 27 12 | | |
| | Hyderabad | NE | iP | 15 04 01 | 7820 | Initial ground motion |
| | | E | PP | 06 43 | | South and West. |
| | | | iS | 13 14 | | |
| | | | PPS | 14 04 | | |
| | | | SS | 17 34 | | |
| | | | LQ | 22 28 | | |
| | | | LR | 25 24 | | |
| | | N | LR | 26 04 | | |
| | | | M | 30 58 | | Period = 12 secs. Gr. dis. = 22 μ. |
| | | E | M | 31 04 | | Period = 15 secs. Gr. dis. = 14 μ. |

| DATE | STATION | COMP. | PHASE | G. M. T. | Δ | REMARKS |
|-----------------------|------------|-------|------------|-------------------|----------|---|
| | | | | h. m. s. | km. | |
| <u>October, 1960.</u> | | | | | | |
| 13 (Contd.) | Poona | Z | iP | 15 04 07 | 8130 | Initial ground movement South and West, compression. |
| | | | PcS | 04 20 | | |
| | | N | iS | 13 35 | | |
| | | | PS | 14 11 | | |
| | | M | | 34/00 | | |
| | Bombay | NE | eP | 15 04 10 | 8030 | Period = 15 secs. Gr. dis. = 17 μ . Period = 18 secs. Gr. dis. = 7 μ . |
| | | | eS | 13 33 | | |
| | | N | PS | 14 10 | | |
| | | | M | 40 07 | | |
| | | E | M | 40 22 | | |
| | Madras | E | iP | 15 04 17 | 8050 | Ground movement West. |
| | | | PPP | 08 58 | | |
| | | | eS | 13 41 | | |
| | | | PPS | 14 44 | | |
| | | | LR | 29 08 | | |
| | Colombo | E | P | 15 04 48 | 8550 | Amp : 0.9 m.m. |
| | | | S | 14 36 | | |
| | | | L | 35 21 | | |
| | | | M | 39 51 | | |
| | | E | e | 15 14 27 | | Tremor. |
| 13 | Shillong | Z | iP | 16 54 44 | | Slight, distant rarefaction. |
| 13 | Chatra | Z | e | 16 55 16 | | Feeble, distant. |
| 13 | Shillong | Z | iP | 18 50 57 | | Slight, distant compression. |
| 13 | Chatra | Z | i | 18 51 57 | | Feeble, distant rarefaction. |
| 14 | Poona | Z | e | 01 07 11 | | Tremor. |
| 14 | Shillong | Z | iP | 11 45 03 | | Slight, distant rarefaction. |
| 14 | Shillong | Z | eP | 12 22 43 | | Slight, distant. |
| 14 | Chatra | Z | e | 12 23 11 | | Feeble, distant. |
| | | | e | 25 44 | | |
| 14 | Shillong | Z | iP | 13 24 48 | | Slight, distant compression. |
| 14 | Chatra | Z | i | 13 24 51 | | Feeble, distant compression. |
| 14 | Port Blair | N | iPg iSg | 14 29 39 29 49 | 80 | Slight. |
| 14 | Shillong | Z | iP | 14 32 47 | | Slight, distant compression. |

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| | | | | | | |
|----|---|-----------|--------------------------------------|--|------|--|
| 14 | Shillong | Z | iPg iSg | 14 50 52 51 25 | | Slight, local. |
| 14 | Shillong | Z | iP | 15 35 55 | | Slight, distant rarefaction. |
| | Chatra | Z | eP eS | 15 36 39 38 29 | 1060 | Feeble. |
| 14 | Shillong | Z | iP | 15 41 44 | | Slight, distant compression. |
| 14 | Shillong | Z | iP | 16 46 49 | | Slight, local. |
| 14 | Chatra | Z NE | iP eS | 16 47 56 49 04 | 640 | Feeble, compression. |
| 14 | Shillong | Z | iP | 17 00 17 | | Slight, local. |
| 14 | Shillong | Z | iP | 18 08 31 | | Slight, distant compression. |
| 14 | Shillong | Z | iP | 19 57 20 | | Slight, distant compression. |
| 14 | Epc:- 50° N, 174° W, in the Aleutians. - H = 21h. 19m. 10s. (Shillong). 51.7° N, 172.1° W.- h = 50 km. - H = 21h. 19m. 11.4s. (USCGS). Mag :- $6\frac{1}{2}$ (Pas), (Berk). | | | | | |
| | Tocklai | E | eP | 21 30 35 | | |
| | Shillong | Z E | iP iS | 21 30 43 40 13 | 8180 | |
| | Chatra | ZNE NE | iP PoP PP? iS SKS ScS | 21 30 57 31 12 33 45 40 32 40 55 41 02 | 8510 | - Rarefaction. |
| | Chatra | NE | PS PPS IQ LR M M | 21 41 13 41 26 50 54 54 03 22 07/08 07/08 | | Period = 19 secs. Gr. dis. = 35 μ . Period = 15 secs. Gr. dis. = 36 μ . |
| | Dehra Dun | NE N | eP PP PPP iS | 21 31 09 34 03 35 50 40 54 | 8490 | |

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

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| | | | | | | | |
|----------------|-----------------------|----|----------|-------------------|--|---|----------|
| 14 (Contd.) | Dehra Dun (Contd.) | N | SS | 21 45 50 | | | |
| | | | SSS | 48 47 | | | |
| | | | LQ | 51 52 | | | |
| | | | LR | 55 21 | | | |
| | | | M | 22 02 09 | | | |
| | Bokaro | NE | iP | 21 31 13 | 8630 | Initial ground movement North East. | |
| | | N | PPP | 35 53 | | | |
| | | | iS | 41 05 | | | |
| | | | PPS | 42 16 | | | |
| | | | M | 22 02 16 | | | |
| | Calcutta | N | e? | 21 31 14 | | | |
| | Vizianagram | N | e | 21 31 39 | | | |
| | Port Blair | E | iP | 21 31 41 | 9220 | Period = 15 secs. Gr. dis. = 7 μ . | |
| iS | | | 42 09 | | | | |
| M | | | 22 03 53 | | | | |
| | Hyderabad | NE | iP | 21 31 57 | 9390 | Initial ground movement towards North and East. | |
| | | E | PP | 35 21 | | | |
| | | NE | iS | 42 24 | | | |
| | | E | PPS | 43 53 | | | |
| | | | SS | 47 57 | | | |
| | | | N | LR | | | 59 11 |
| | | | E | LR | | | 59 25 |
| | | | | M | | | 22 06 11 |
| | | N | M | 06 13 | Period = 21 secs. Gr. dis. = 18 μ . Period = 21 secs. Gr. dis. = 32 μ . | | |
| | Kodaikanal | E | eP | 21 32 03 | | Period = 30 secs. Gr. dis. = 16 μ . | |
| | | | e | 42 48 | | | |
| | | | e | 49 15 | | | |
| | | | LQ | 22 02 30 | | | |
| | | | M | 10 15 | | | |
| | Poona | Z | iP | 21 32 06 | 9950 | Initial ground movement North West and down. | |
| | | | PP | 35 53 | | | |
| | | | N | SKKS ₁ | | | 42 35 |
| | | | | iS | | | 42 56 |
| | | | | PS | | | 44 08 |
| | | | M | 02/09 | | | |
| | Bombay | NE | eP | 21 32 09 | | Period = 19 secs. Gr. dis. = 6 μ . Period = 18 secs. Gr. dis. = 15 μ . | |
| | | | e | 42 36 | | | |
| | | | e | 42 58 | | | |
| | | E | e | 43 12 | | | |
| | | | M | 43 21 | | | |
| | | N | M | 46 19 | | | |

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

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| | | | | | | | |
|----------------|-----------|----|----------------|----------|------|---------------------------------|---------------------------------|
| 14 (Contd.) | Madras | E | iP | 21 32 11 | 9510 | Ground movement East. | |
| | | | PP | 35 50 | | | |
| | | | eS | 42 43 | | | |
| | | | PPS | 44 24 | | | |
| | | | M | 22 10 46 | | | |
| | Colombo | E | e | 21 35 38 | | | |
| | | | e | 43 11 | | | |
| | | | M | 22 20 46 | | | |
| 14 | Dehra Dun | NE | e ^P | 23 07 40 | | Feeble. | |
| | | | e | 17 36 | | | |
| 14 | Chatra | Z | e | 23 08 14 | | Feeble, distant. | |
| 14 | Poona | Z | iP | 23 08 16 | | Feeble. | |
| 14 | Shillong | Z | iP | 23 08 27 | | Slight, distant compression. | |
| 15 | Chatra | Z | eP | 00 26 32 | 210 | Feeble. | |
| | | | eS | 26 57 | | | |
| 15 | Shillong | Z | eP | 09 52 23 | | Slight, near. | |
| 15 | Chatra | Z | i | 10 39 06 | | Feeble, compression. | |
| 15 | Shillong | Z | iP | 11 35 59 | | Slight, distant rarefaction. | |
| | | | Chatra | Z | i | 11 36 39 | Feeble, distant rarefaction. |
| | | | | | | | |
| 15 | Dehra Dun | NE | e | 13 03 55 | | Feeble. | |
| 15 | Shillong | Z | iP | 15 33 17 | | Slight, distant compression. | |
| 15 | Chatra | Z | iP | 16 39 23 | 160 | Feeble, rarefaction. | |
| | | | eS | 39 43 | | | |
| | Shillong | Z | iP | 16 39 47 | | Slight, distant compression. | |
| 15 | Shillong | Z | eP | 18 43 16 | | Slight, local. | |
| 15 | Tocklai | E | iPg | 20 05 36 | 150 | Slight. | |
| | | | iSg | 05 54 | | | |
| 15 | Shillong | Z | eP | 20 05 41 | 220 | Slight. | |
| | | | iPg | 05 53 | | | |
| | | | iSg | 06 19 | | | |
| 15 | Chatra | Z | e | 20 07 57 | | Feeble, distant. | |
| 15 | Shillong | Z | iP | 23 02 08 | | Slight, distant rarefaction. | |

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

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| | | | | | | |
|----|----------|---------|----------|-------------------|-----|------------------------------|
| 16 | Shillong | Z | iP | 00 26 07 | | Slight, distant rarefaction. |
| 16 | Shillong | Z | iP | 01 26 11 | | Slight, distant compression. |
| 16 | Shillong | Z | eP i | 06 11 41 11 50 | | Slight, near. |
| 16 | Shillong | Z | eP | 06 39 26 | | Slight, distant rarefaction. |
| 16 | Chatra | Z ZE | iP iS | 06 40 45 41 04 | 150 | Feeble, rarefaction. |
| 16 | Shillong | Z | e i | 06 41 18 42 07 | | Slight, near. |
| | Shillong | Z | iP | 07 23 51 | | Slight, distant compression. |
| 16 | Shillong | Z | eP i | 08 51 11 52 08 | | Slight, near. |
| 16 | Poona | Z | eP | 09 54 13 | | Tremor. |
| 16 | Shillong | Z | iP | 13 02 04 | | Slight, near, rarefaction. |
| 16 | Shillong | Z | eP | 13 08 11 | | Feeble, tremor. |
| 16 | Shillong | Z | eP i | 13 54 57 55 11 | | Slight, near. |
| 16 | Shillong | Z | e | 15 08 13 | | Feeble, distant. |
| 16 | Shillong | Z | eP i | 16 57 35 57 39 | | Slight, local. |
| 16 | Shillong | Z | iP | 18 05 21 | | Slight, distant compression. |
| 16 | Chatra | Z | i | 18 05 29 | | Feeble, distant Rarefaction. |
| 16 | Shillong | Z | e | 19 29 24 | | Slight, distant. |
| 16 | Chatra | Z | i | 19 29 40 | | Feeble, distant compression. |
| 16 | Chatra | Z | iP iS | 20 15 18 15 56 | 330 | Feeble, near rarefaction. |
| 16 | Shillong | Z | eP | 20 16 19 | | Slight, near. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | | | △ km. | REMARKS |
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| | | | | h. | m. | s. | | |
| <u>October, 1960.</u> | | | | | | | | |
| 16 | Shillong | Z | eP e | 21 | 21 | 43 21 58 | | Slight, near. |
| 16 | Shillong | Z | iP | 23 | 52 | 08 | | Slight, distant rarefaction. |
| 16 | Chatra | Z | i e | 23 | 53 | 08 54 39 | | Feeble, rarefaction. |
| 17 | Dehra Dun | NE | e | 05 | 37 | 22 | | Tremor. |
| 17 | Chatra | Z | iP | 05 | 37 | 39 | | Very feeble, compression. |
| 17 | Chatra | Z | iP | 06 | 20 | 59 | | Feeble, rarefaction. |
| 17 | Shillong | Z | iP | 10 | 06 | 31 | | Slight, near rarefaction. |
| 17 | Shillong | Z | e e | 14 | 23 | 23 24 35 | | Slight. |
| 17 | Poona | Z | iP | 16 | 05 | 06 | | Feeble. |
| | Chatra | Z ZN | iP e | 16 | 05 | 10 08 34 | | Feeble, distant rarefaction. |
| | Shillong | Z | iP | 16 | 05 | 15 | | Slight, distant rarefaction. |
| 17 | Chatra | Z | eP i | 16 | 15 | 47 15 48 | | Feeble, rarefaction. |
| | Shillong | Z | iP | 16 | 15 | 55 | | Slight, distant compression. |
| 17 | Shillong | Z | e | 17 | 18 | 00 | | Feeble. |
| 17 | Shillong | Z | i | 19 | 05 | 16 | | Feeble. |
| 17 | Shillong | Z | i | 20 | 21 | 16 | | Feeble. |
| 17 | Poona | Z | iP | 22 | 35 | 00 | | Feeble. |
| 18 | Shillong | Z | iP | 00 | 33 | 27 | | Slight, distant rarefaction. |
| 18 | Chatra | Z | iP | 00 | 33 | 38 | | Feeble, distant. |
| 18 | Chatra | Z | iP e? | 08 | 41 | 31 41 51 | | Mild, near compression. |
| 18 | Chatra | Z | eP | 10 | 30 | 48 | | Feeble, distant. |
| 18 | Shillong | Z | iP | 10 | 31 | 23 | | Slight, distant rarefaction. |
| 18 | Poona | Z | eP | 10 | 32 | 06 | | Feeble. |

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 h. m. s. km.

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|------|-------------|--------------------------|-------------------------------------|---|-----------------|------------------------------|
| 18 | Vizianagram | N | i | 10 41 37 | | Slight. |
| 18 | Chatra | Z | eP | 12 00 42 | | Very mild, near. |
| 18 | Shillong | Z | eP | 17 17 46 | | Feeble, distant. |
| 18 | Shillong | Z | eP | 20 03 27 | | Slight, distant. |
| 19 | Vizianagram | NE | i | 00 04 49 | | Slight. |
| 19 | Shillong | ZNE | ePg iSg | 02 30 29 30 45 | 120 | Slight. |
| | Chatra | Z ZNE | iP eS | 02 30 57 31 45 | 430 | Feeble, rarefaction. |
| 19 | Vizianagram | NE | iPg PP PPP Sg SS SSS | 04 06 56 07 01 07 08 07 16 07 24 07 34 | 170 | Slight. |
| | Madras | E | e e | 04 08 23 09 28 | | Tremor. |
| | Calcutta | N | eP? eS iS* | 04 08 35 09 29 09 46 | 510 | Slight. |
| | Chatra | Z NE NE N NE | iP eS? i? i? i? | 04 09 04 10 43 11 28 11 29 11 35 | 960 | Slight, compression. |
| | Poona | Z | iP | 04 09 08 | | Slight. |
| | Bokaro | NE | eP i | 04 09 09 09 54 | | Slight. |
| | Shillong | Z | iP | 04 09 19 | | Slight, distant rarefaction. |
| | Hyderabad | N E | P e | 04 09 30 09 51 | | |
| | Dehra Dun | NE | e | 04 12 14 | | Tremor. |
| | Bombay | NE | e | 04 13 24 | | Minor, tremor. |
| 19 | Vizianagram | NE | iPg iSg | 04 20 32 20 39 | 70 | Slight. |
| 19 | Chatra | Z | iP | 04 51 44 | | Feeble, distant compression. |
| 19 | Shillong | Z | eP | 05 37 09 | | Slight, local. |
| 19 | Shillong | Z | e | 06 33 53 | | Feeble, near. |

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

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| | | | | | | | | |
|----|---|----|-----|----|----|----|------|------------------------------------|
| 19 | Shillong | Z | e | 06 | 38 | 18 | | Slight, distant. |
| | Chatra | Z | eP | 06 | 38 | 48 | | Feeble, distant compression. |
| 19 | Chatra | Z | iPg | 10 | 55 | 22 | | Feeble. |
| | | NE | Sg | | 55 | 36 | | |
| | | N | i | | 55 | 38 | | |
| | Shillong | Z | iP | 10 | 56 | 03 | | Slight, near, rarefaction. |
| 19 | Shillong | Z | ePg | 11 | 05 | 22 | | Slight, local. |
| 19 | Shillong | Z | eP | 13 | 43 | 49 | | Slight, near. |
| | Chatra | Z | eP? | 13 | 44 | 44 | | Feeble. |
| 19 | Shillong | Z | iP | 14 | 30 | 05 | | Slight, distant rarefaction. |
| 19 | Shillong | Z | eP | 16 | 55 | 40 | | Feeble, near. |
| | Shillong | Z | eP | 17 | 53 | 42 | | Slight, distant. |
| 19 | Shillong | Z | eP | 19 | 15 | 07 | | Slight, distant. |
| 19 | Shillong | Z | e | 20 | 51 | 11 | | Feeble, distant. |
| 19 | Shillong | Z | eP | 21 | 34 | 57 | | Slight, distant. |
| 19 | Chatra | Z | iPg | 22 | 10 | 35 | 120 | Very feeble, rarefaction. |
| | | | i | | 10 | 44 | | |
| | | | Sg | | 10 | 49 | | |
| 19 | Shillong | Z | eP | 22 | 11 | 33 | | Feeble, distant. |
| 20 | Chatra | Z | eP | 01 | 12 | 47 | | Very feeble. |
| | | | e? | | 13 | 33 | | |
| 20 | Shillong | Z | e | 01 | 13 | 09 | | Slight, near. |
| 20 | Dehra Dun | NE | e | 03 | 22 | 02 | | Feeble. |
| | | | i | | 23 | 35 | | |
| 20 | Shillong | Z | iP | 03 | 24 | 28 | | Slight, distant compression. |
| 20 | Epc:- 11° S, 164.9° E, Santa Cruz Islands Region. | | | | | | | |
| | -h = 40km. - H = 11h. 05m. 58.3s. (USCGS). | | | | | | | |
| | Mag : 6 $\frac{1}{4}$ (Pas). 5 $\frac{1}{2}$ -6 (Perk). | | | | | | | |
| | Tocklai | E | eP | 11 | 17 | 58 | | |
| | Shillong | ZE | iP | 11 | 18 | 05 | 8890 | Rarefaction, ground movement East. |
| | | | e | | 18 | 15 | | |
| | | | e | | 18 | 42 | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | | REMARKS |
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| | | | | | | | |
|----------------|----------------------|-----|-----|----|----|--|--|
| 20 (Contd.) | Shillong (Contd.) | ZE | iS | 11 | 28 | 09 | |
| | | | SKS | | 28 | 16 | |
| | | | ScS | | 28 | 29 | |
| | | | PS | | 28 | 53 | |
| | | | PPS | | 29 | 14 | |
| | | | e | | 48 | 25 | |
| | Poona | Z | iP | 11 | 19 | 18 | |
| | Hyderabad | E | M | 11 | 29 | 28 | Period = 8 secs. Gr. dis. = 3 μ . |
| N | | M | | 29 | 30 | Period = 9 secs. Gr. dis. = 3 μ . | |
| | Bombay | NE | e | 11 | 30 | 47 | Slight, distant. |
| 20 | Shillong | Z | ePg | 15 | 50 | 31 | Slight, near. |
| 20 | Shillong | Z | iPg | 16 | 02 | 06 | Slight, near rarefaction. |
| 20 | Shillong | Z | iP | 17 | 22 | 46 | Slight, near rarefaction. |
| | | | i | | 23 | 29 | |
| 20 | Shillong | Z | iP | 17 | 31 | 44 | Slight, compression. |
| | | ZE | iS | | 32 | 30 | |
| 20 | Shillong | Z | eP | 23 | 28 | 14 | Slight, near. |
| 20 | Shillong | Z | eP | 23 | 48 | 53 | Slight, distant. |
| 21 | Shillong | Z | iP | 00 | 01 | 04 | Slight, distant compression. |
| 21 | Shillong | Z | e | 00 | 39 | 11 | Slight, near. |
| 21 | Port Blair | N | iP | 02 | 01 | 13 | Slight. |
| | | | iS | | 02 | 03 | |
| | Shillong | ZNE | iPg | 02 | 02 | 41 | Slight, magnitude 5.3. |
| iSg | | | | 02 | 49 | | |
| | Madras | E | e | 02 | 03 | 30 | Tremor. |
| | | | e | | 05 | 58 | |
| | Vizianagram | N | eP | 02 | 03 | 37 | Slight. |
| | Poona | Z | eP | 02 | 05 | 03 | Feeble. |
| 21 | Chatra | Z | i | 03 | 23 | 45 | Feeble, distant rarefaction. |
| | | | i | | 26 | 43 | |
| 21 | Shillong | Z | eP | 06 | 33 | 49 | Feeble, distant. |
| 21 | Chatra | Z | i | 11 | 18 | 30 | Feeble, distant rarefaction. |

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| DATE | STATION | COMPT. | PHASE | G. | M. | T. | △ | REMARKS |
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| | | | | | | | | |
|----|--|-----|-----|----|----|----|------|--------------------------------------|
| 21 | Shillong | Z | iP | 13 | 17 | 18 | 170 | Slight. |
| | | | i | | 17 | 27 | | |
| | | | iS | | 17 | 39 | | |
| | | | iSg | | 17 | 41 | | |
| 21 | Port Blair | E | e | 16 | 00 | 33 | | Slight. |
| 21 | Shillong | Z | eP | 16 | 02 | 21 | | Slight, distant. |
| 21 | Shillong | Z | iPg | 16 | 15 | 52 | 10 | Feeble, felt locally. |
| | | ZNE | iSg | | 15 | 53 | | Mag : 2.2 |
| 21 | Shillong | Z | e | 16 | 25 | 32 | | Feeble. |
| 21 | Chatra | Z | e | 17 | 32 | 47 | | Feeble, distant. |
| | | E | e | | 34 | 23 | | |
| 21 | Shillong | Z | eP | 19 | 50 | 49 | | Slight, distant. |
| 22 | Shillong | Z | eP | 00 | 50 | 43 | | Slight, near. |
| 22 | Shillong | Z | iP | 08 | 10 | 27 | | Slight, distant compression. |
| 22 | Epc:- 10.3°S, 161.2°E, Solomon Islands Region. | | | | | | | |
| | - h = 93 km. - H = 08h. 22m. 00.9s (USCGS). | | | | | | | |
| | Mag : 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ (Berk), 6 $\frac{1}{4}$ -7 (Pas). | | | | | | | |
| | Port Blair | N | iP | 08 | 33 | 14 | 7810 | |
| | | | eS | | 42 | 26 | | |
| | Shillong | ZE | iP | 08 | 33 | 41 | 8620 | Rarefaction ground movement West. |
| | | | PcP | | 33 | 57 | | |
| | | | i | | 34 | 03 | | |
| | | | pP | | 34 | 12 | | |
| | | | PP | | 36 | 35 | | |
| | | NE | iS | | 43 | 20 | | |
| | | | ScS | | 43 | 49 | | |
| | | | ScS | | 43 | 49 | | |
| | | | PS | | 44 | 02 | | |
| | | | PPS | | 44 | 17 | | |
| | | | e | | 44 | 45 | | |
| | Chatra | Z | eP | 08 | 34 | 07 | 8840 | |
| | | | e | | 34 | 20 | | |
| | | | e | | 34 | 25 | | |
| | | ZNE | e | | 34 | 29 | | |
| | | | pP | | 34 | 35 | | |
| | | | i | | 34 | 41 | | |
| | | NE | iS | | 44 | 08 | | |
| | | | i | | 44 | 38 | | |
| | Calcutta | E | e? | 08 | 34 | 11 | | |
| | | | i | | 43 | 46 | | |
| | Bokaro | NE | eP | 08 | 34 | 12 | 8800 | |
| | | | eS | | 44 | 12 | | |
| | Madras | E | eP | 08 | 34 | 25 | | Ground movement West. |
| | | | e | | 41 | 03 | | |
| | | | e | | 44 | 20 | | |

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

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| | | | | | | |
|----------------|-----------|----|-------|----------|------|------------------------------|
| 22 (Contd.) | Hyderabad | E | eP | 08 34 36 | 9190 | |
| | | NE | iS | 44 54 | | |
| | | | PS | 45 33 | | |
| | | E | LR | 59 34 | | |
| | | N | LR | 59 39 | | |
| | Poona | Z | iP | 08 34 55 | 9220 | |
| | | N | SKKS1 | 44 44 | | |
| | | | iS | 45 14 | | |
| | Bombay | E | eP | 08 35 00 | | Deep. |
| | | | e | 45 30 | | |
| | Dehra Dun | NE | eP | 08 35 06 | 9290 | |
| | | N | PPP | 40 15 | | |
| | | | iS | 45 28 | | |
| | | | SS | 50 39 | | |
| | | | SSS | 53 33 | | |
| | | | LQ | 57 38 | | |
| | | | LR | 09 00 45 | | |
| | | | M | 07 22 | | |
| 22 | Chatra | Z | iPn | 11 24 04 | 180 | Feeble, compression. |
| | | | eP* | 24 05 | | |
| | | | Pg | 24 06 | | |
| | | ZN | PP? | 24 11 | | |
| | | | Sn | 24 26 | | |
| | | | Sg? | 24 27 | | |
| | Shillong | Z | e | 11 24 28 | | Slight, near. |
| 22 | Shillong | Z | ePg | 11 49 32 | 130 | Slight. |
| | | | Sg | 49 47 | | |
| | | | S* | 49 49 | | |
| 22 | Shillong | Z | iPg | 13 27 32 | | Slight, near, compression. |
| 22 | Shillong | Z | e | 18 00 51 | | Slight, distant. |
| 22 | Shillong | Z | eP | 20 04 05 | | Slight, distant. |
| 22 | Shillong | Z | iP | 20 07 45 | 410 | Slight, rarefaction. |
| | | | iS | 08 29 | | |
| | | | SS | 08 51 | | |
| 22 | Shillong | Z | ePg | 20 28 40 | | Slight, near rarefaction. |
| 22 | Shillong | Z | iP | 20 54 52 | 300 | Slight, rarefaction. |
| | | | P* | 55 02 | | |
| | | | PP | 55 06 | | |
| | | | LR | 55 30 | | |
| | | | S | 55 33 | | |
| | | | S* | 55 37 | | |
| 22 | Shillong | Z | iP | 22 32 07 | | Slight, distant compression. |

| DATE | STATION | COMPT. | PHASE | G. M. T. | REMARKS |
|------|---------|--------|-------|----------|---------|
| | | | | h. m. s. | △ km. |

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| | | | | | | |
|----|---|---------|-----------------|----------------------------|------|------------------------------|
| 23 | Port Blair | N | e | 02 47 06 | | Slight. |
| 23 | Shillong | Z | e | 02 48 33 | | Slight, distant. |
| 23 | Shillong | Z | iPg | 08 10 07 | | Slight, near compression. |
| 23 | Shillong | Z | e | 11 52 39 | | Slight, distant. |
| 23 | Shillong | Z | eP | 12 45 21 | | Slight, near. |
| 23 | Tocklai | E | i | 14 39 28 | | Tremor. |
| 23 | Shillong | Z | eP e | 14 42 11 43 04 | | Slight, distant |
| 23 | Port Blair | N | iPg iSg | 15 28 06 28 11 | 40 | Slight. |
| 23 | Shillong | Z | iP iS | 16 06 53 07 39 | 420 | Slight, compression. |
| 23 | Shillong | Z | iPg PP Sg | 16 17 25 17 31 17 41 | 130 | Slight, rarefaction. |
| 23 | Shillong | Z | e | 18 59 36 | | Slight. |
| 23 | Shillong | Z | P e | 19 27 16 29 54 | | Slight, distant. |
| 23 | Chatra | Z | e | 19 29 22 | | Feeble, distant. |
| 23 | Shillong | Z | eP | 21 02 31 | | Slight, near. |
| 23 | Shillong | Z | e | 22 03 26 | | Slight, distant. |
| 24 | Chatra | Z NE | eP S | 02 44 20 44 38 | 130 | Feeble, near. |
| 24 | Shillong | Z | eP | 04 09 15 | | Feeble, distant. |
| 24 | Shillong | ZNE | iP | 05 24 23 | | Slight, distant compression. |
| 24 | Chatra | Z | e | 05 24 44 | | Feeble, distant. |
| 24 | Epc: - 36.3° N, 70.7° E, Hindukush Region. - h = 277 km. - H = 05h. 47m. 03.5s. (USCGS). | | | | | |
| | Dehra Dun | NE | eP iS | 05 49 03 50 39 | 930 | Feeble. |
| | Chatra | ZE E | eP eS | 05 50 46 53 53 | 2020 | Feeble, distant. |
| | Shillong | ZNE | iP iS | 05 51 30 55 13 | 2540 | Slight. |

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

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| | | | | | | |
|-----|-----------|----|------------|-------------------|-----|---------------------------------|
| 24 | Shillong | Z | ePg | 07 41 09 | | Slight, near. |
| 24 | Dehra Dun | NE | e | 10 03 05 | | Feeble. |
| 24 | Shillong | Z | e | 10 38 09 | | Feeble. |
| 24 | Shillong | Z | e | 12 07 20 | | Feeble, near. |
| 24 | Shillong | Z | e | 12 09 47 | | Feeble, near. |
| 24 | Shillong | Z | eP eS | 15 16 37 17 01 | 200 | Slight. |
| 24 | Shillong | Z | iP | 16 50 23 | | Slight, distant compression. |
| 24 | Shillong | Z | eP | 17 19 45 | | Slight, distant. |
| 24 | Shillong | Z | e | 17 41 01 | | Feeble. |
| 24 | Shillong | Z | iPg | 22 38 09 | | Slight, near, rarefaction. |
| 24 | Shillong | Z | e | 23 04 16 | | Feeble. |
| 24 | Shillong | Z | e | 23 31 31 | | Feeble. |
| 25 | Shillong | Z | iP | 09 02 25 | | Slight, distant compression. |
| 25 | Shillong | Z | iP | 09 47 50 | | Slight, distant rarefaction. |
| 25 | Shillong | Z | eP | 18 35 11 | | Feeble, distant. |
| 25 | Shillong | Z | e | 18 38 38 | | Feeble, near. |
| 25 | Shillong | Z | iP | 18 38 56 | | Feeble, distant rarefaction. |
| 25 | Shillong | Z | e | 19 34 16 | | Feeble. |
| 25 | Shillong | Z | iPg iSg | 23 48 45 48 59 | 120 | Slight. |
| 26 | Shillong | Z | iP | 00 31 46 | | Slight, distant rarefaction. |
| 26 | Shillong | Z | iP iSg | 02 23 47 24 36 | 330 | Slight, rarefaction. |
| 26 | Dehra Dun | NE | e | 05 42 46 | | Tremor. |
| 26 | Shillong | Z | iPg iSg | 07 45 32 45 37 | 50 | Slight, rarefaction. |
| 26. | Shillong | Z | eP i | 08 54 01 54 17 | | Slight, near. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
|-----------------------|----------|-----------|--|---|----------|---------------------------------|
| <u>October, 1960.</u> | | | | | | |
| 26 | Shillong | Z | iP | 11 34 03 | | Slight, distant compression. |
| 26 | Shillong | Z | iPg i | 16 14 01 14 03 | | Feeble, very near. |
| 26 | Shillong | Z | iP iS | 16 36 35 37 03 | 240 | Slight, rarefaction. |
| 26 | Shillong | Z | eP | 19 59 52 | | Slight, distant. |
| 27 | Shillong | Z | iPg iSg | 00 30 15 30 24 | 80 | Slight. |
| 27 | Shillong | Z | e | 00 36 47 | | Feeble. |
| 27 | Shillong | Z | iP | 04 40 03 | | Slight, distant rarefaction. |
| 27 | Shillong | Z | iPg | 06 09 03 | | Slight, near, rarefaction. |
| 27 | Shillong | Z | iPg iSg | 10 03 51 04 10 | 160 | Slight, compression. |
| 27 | Shillong | Z | i | 10 20 19 | | Feeble, near. |
| 27 | Shillong | Z | iP | 10 57 29 | | Slight, distant rarefaction. |
| 27 | Chatra | ZE | e | 10 58 10 | | Feeble. |
| 27 | Tocklai | E | eP PPF Sg SS SSS | 13 12 31 12 42 12 54 13 04 13 14 | 180 | Slight. |
| | Shillong | ZNE NE | iP P* Pg PP PPF iS Sg SS SSS | 13 12 34 12 36 12 39 12 42 12 48 1 2 59 13 02 13 11 13 19 | 210 | Slight, rarefaction Mag. 4.1 |
| | Chatra | ZNE NE | iP PP PPP S SS LR SSS Sg(M) | 13 13 37 13 43 13 51 14 47 14 53 14 48 15 09 15 23 | 670 | Feeble, compression. |

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| DATE | STATION | COMP. | PHASE | G. M. T. | | | △ | REMARKS |
|-----------------------|---|-------|-------|----------|----|----|------|----------------------|
| | | | | h. | m. | s. | km. | |
| <u>October, 1960.</u> | | | | | | | | |
| 27 | Shillong | Z | e | 13 | 24 | 44 | | Feeble. |
| 27 | Shillong | Z | iP | 13 | 52 | 44 | | Slight, near |
| | | ZNE | i | | 53 | 09 | | rarefaction. |
| | Tocklai | E | iP | 13 | 53 | 12 | | Slight. |
| | Chatra | Z | iP | 13 | 53 | 45 | 680 | Feeble, rarefaction. |
| | | | S | | 54 | 57 | | |
| 27 | Chatra | Z | iP | 14 | 35 | 21 | 150 | Feeble, near, |
| | | | e | | 35 | 37 | | rarefaction. |
| 27 | Shillong | Z | eP | 14 | 35 | 49 | 430 | Slight. |
| | | | eS | | 36 | 36 | | |
| 27 | Shillong | Z | iP | 14 | 53 | 31 | | Slight, distant |
| | | | | | | | | compression. |
| 27 | Shillong | Z | eP | 18 | 08 | 51 | 230 | Slight. |
| | | | eS | | 09 | 18 | | |
| 27 | Shillong | Z | iP | 18 | 51 | 59 | | Slight, distant |
| | | | | | | | | compression. |
| 27 | Shillong | Z | iP | 19 | 53 | 51 | | Feeble. |
| | | | i | | 54 | 08 | | |
| 27 | Shillong | Z | iP | 22 | 41 | 14 | | Slight, distant |
| | | | | | | | | compression. |
| 27 | Shillong | Z | e | 22 | 44 | 55 | | Feeble, distant. |
| 28 | Epc:- 71.3°N, 8.6°W, Jan Mayen Island. | | | | | | | |
| | - h = 48 km. - H = 0h. 18m. 41.9s. (USCGS), | | | | | | | |
| | Mag: 5½ (Pal), 6¾ (Pas.). | | | | | | | |
| | Dehra Dun | NE | eP | 04 | 28 | 59 | 6740 | |
| | | N | PPP | | 32 | 43 | | |
| | | | iS | | 37 | 15 | | |
| | | | SS | | 41 | 17 | | |
| | | | SSS | | 43 | 37 | | |
| | | | LR | | 46 | 39 | | |
| | | | M | | 51 | 15 | | |
| | Chatra | Z | iP | 04 | 29 | 36 | | Feeble, distant. |
| | | | i | | 30 | 41 | | Rarefaction. |
| | Shillong | E | iP | 04 | 29 | 50 | 7640 | Rarefaction. |
| | | NE | eS | | 38 | 54 | | |
| | | | PS | | 39 | 08 | | |
| | Calcutta | E | e | 04 | 39 | 29 | | Slight. |
| | Hyderabad | N | M | 04 | 39 | 39 | | Period = 15 secs. |
| | | | M | | 59 | 36 | | Gr. dis. = 6 μ. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
|-----------------------|---|-----------|---|---|----------|--|
| | | | | h. m. s. | km. | |
| <u>October, 1960.</u> | | | | | | |
| 28 | Tocklai | E | iPg iSg | 06 37 06 37 11 | 40 | Slight. |
| 28 | Shillong | Z | e | 07 15 11 | | Feeble. |
| 28 | Chatra | Z | i | 07 57 29 | | Feeble, distant. Compression. |
| 28 | Shillong | Z | iP | 07 57 45 | | Slight, distant compression. |
| 28 | Shillong | Z | e | 11 10 35 | | Slight, near. |
| 28 | Shillong | Z | eP | 11 20 24 | | Slight, distant. |
| 28 | Epc:- 52.0°N, 157.4°E, Kamchatka. - h = 96 km. - H = 13h. 18m. 14.3s. (USCGS). | | | | | |
| | Tocklai | E | eP | 13 27 29 | | Slight. |
| | Shillong | E | eP | 13 27 29 | | Slight. |
| | Shillong | ZNE E | iP pP sP PP e NE E | 13 27 42 28 10 28 19 29 47 31 10 35 43 35 57 36 08 36 13 36 27 36 37 37 17 39 33 42 01 42 28 49 53 | 6000 | Moderate, initial ground movement towards East and rarefaction. |
| | Chatra | ZNE NE | iP e PP PPP e e e SoS e e LQ M | 13 27 58 28 20 30 13 31 27 36 17 36 32 36 41 37 54 40 17 42 32 43 02 56/00 | 6250 | Rarefaction. Period = 13 secs. Gr. dis. = 8 μ . Period = 11 secs. Gr. dis. = 7 μ . |
| | Calcutta | E | iP PcP PPP e e | 13 28 16 29 01 31 31 32 45 36 54 | 6520 | Initial ground motion towards East. |

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

October, 1960.

| | | | | | | |
|----------------|-------------|-------|------|----------------|------|--|
| 28 (Contd.) | Bokaro | NE | iP | 13 28 18 | 6550 | Moderate, initial ground movement towards North and East. |
| | | E | PcP | 28 55 | | |
| | | | PPP | 31 59 | | |
| | | | PPS | 36 59 | | |
| | | | ScS | 57 55 | | |
| | Dehra Dun | NE | eP | 13 28 20 | 6590 | Moderate. |
| | | N | PP | 30 35 | | |
| | | | e | 32 33 | | |
| | | | i | 37 13 | | |
| | | | e | 41 13 | | |
| | | | e | 44 15 | | |
| | | | e | 45 33 | | |
| | | | M | 54 15 | | |
| | Vizianagram | N | e | 13 28 42 | | |
| | | | e | 29 11 | | |
| | | | e | 31 08 | | |
| | | | e | 37 20 | | |
| | | | S | 37 42 | | |
| | | | e | 37 54 38 22 | | |
| | Port Blair | E | iP | 13 28 52 | 7130 | Slight. |
| | | | PcP | 29 27 | | |
| | | | PP | 31 06 | | |
| | | | iS | 37 29 | | |
| | | | SKS | 38 43 | | |
| | | | SS | 41 16 | | |
| | Hyderabad | NE | iP | 13 29 17 | 7550 | Initial ground movement towards North and East. |
| | | | PcP | 29 53 | | |
| | | | PP | 31 47 | | |
| | | E | PPP | 33 35 | | |
| | | | PcS | 34 02 | | |
| | | NE | i | 38 11 | | |
| | | E | FPS | 38 53 | | |
| | | | SKS1 | 39 02 | | |
| | | N | e | 43 35 | | |
| | | E | LQ | 46 50 | | |
| | | N | LQ | 46 59 | | |
| | | E | LR | 50 35 | | |
| | | N | LR | 50 38 | | |
| | | | M | 53 35 | | |
| E | M | 53 38 | | | | |
| | | | | | | Period = 18 secs. Gr. dis. = 13 μ . |
| | | | | | | Period = 12 secs. Gr. dis. = 3 μ . |
| | Poona | Z | iP | 13 29 30 | 7790 | Moderate, initial ground movement towards East and rarefaction. |
| | | | PcP | 29 35 | | |
| | | | e | 32 35 | | |
| | | E | FPS | 39 21 | | |
| | | | ScS | 39 38 40 12 | | |

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| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
|-----------------------|--|--------|-------|----------|----------|--|
| | | | | h. m. s. | km. | |
| <u>October, 1960.</u> | | | | | | |
| 28 (Contd.) | Bombay | NE | eP | 13 29 31 | 7810 | Moderate. |
| | | | PP | 32 12 | | |
| | | | PPP | 34 04 | | |
| | | | eS | 38 42 | | |
| | | | PPS | 39 35 | | |
| | | | N | M | 14 05 20 | |
| | Madras | E | iP | 13 29 33 | 7830 | Moderate ground movement towards East. |
| | | | PcP | 29 42 | | |
| | | | e | 32 38 | | |
| | | | e | 34 28 | | |
| | | | PPS | 39 25 | | |
| | | | ScS | 39 43 | | |
| | | | e | 40 09 | | |
| | | | LR | 54 43 | | |
| | Colombo | E | P | 13 30 03 | 8240 | |
| | | | S | 39 36 | | |
| 28 | Chatra | Z | e | 13 31 33 | | |
| | | | e | 37 29 | | |
| 28 | Shillong | Z | eP | 13 47 05 | 180 | Slight. |
| | | | iS | 47 26 | | |
| 28 | Shillong | Z | iPg | 17 19 36 | | Slight, near. |
| 28 | Chatra | Z | i(d) | 18 21 20 | | Feeble, distant. |
| 28 | Shillong | Z | iF | 18 22 13 | 590 | Slight, compression. |
| | | | eS | 23 15 | | |
| | | | LR | 25 17 | | |
| 28 | Shillong | Z | eP | 21 44 17 | 320 | Slight. |
| | | | iS | 44 53 | | |
| 28 | Chatra | Z | eP | 22 19 20 | 110 | Feeble. |
| | | | iS | 19 59 | | |
| 28 | Epc:- 34.4° N, 141.1° E, Near East Coast of Honshu, Japan. | | | | | |
| | - h = about 96 kms. - H = 22h. 29m. 26.6s. (USCGS). | | | | | |
| | Shillong | ZE | eP | 22 37 22 | 4820 | Slight. |
| | | | e | 37 48 | | |
| | | | e | 38 15 | | |
| | | | PP | 39 08 | | |
| | | | PPP | 39 45 | | |
| | | NE | eS | 43 51 | | |
| | | | LQ | 47 36 | | |
| | | | LR | 49 36 | | |
| | | | M | 53 18 | | |
| | Chatra | Z | eP | 22 37 51 | | Feeble, distant. |
| | | N | M | 50/00 | | Period = 17 secs. |
| | | | | | | Gr. dis. = 25 μ . |
| | | E | M | 59-00 | | Period = 14 secs. |
| | | | | | | Gr. dis. = 13 μ . |

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

October, 1960.

| | | | | | | |
|----------------|--|--------------|---|--|------|------------------------------|
| 28 (Contd.) | Calcutta | E | e | 22 37 58 | | Slight. |
| | | | e | 48 08 | | |
| | Bokaro | NE | eP | 22 38 09 | 5490 | Slight. |
| eS | | | 45 16 | | | |
| | Dehra Dun | NE N | eP | 22 38 43 | 5920 | Slight. |
| PP | | | 40 54 | | | |
| iS | | | 46 14 | | | |
| SS | | | 49 48 | | | |
| SSS/LQ | | | 51 34 | | | |
| LR M | | | 54 03 58 28 | | | |
| | Hyderabad | NE E N | eP | 22 39 17 | 6440 | Slight. |
| iS | | | 47 17 | | | |
| PS | | | 47 30 | | | |
| PPS | | | 47 44 | | | |
| SS | | | 50 59 | | | |
| LR | | | 56 30 | | | |
| M | | | 23 00 56 | Period = 21 secs. Gr. dis. = 10 μ . | | |
| E | M | 01 35 | Period = 14 secs. Gr. dis. = 4 μ . | | | |
| | Poona | Z | eP | 22 39 41 | 6800 | Slight. |
| PcP | | | 40 21 | | | |
| eS | | | 48 00 | | | |
| | Bombay | NE N | eP | 22 39 43 | 6910 | Slight. |
| eS | | | 48 08 | | | |
| PS | | | 48 20 | | | |
| M | | | 23 08 48 | Period = 15 secs. Gr. dis. = 3 μ . | | |
| | Colombo | E | e | 22 48 36 | | Amp: 0.3 mm. |
| e | | | 23 02 51 | | | |
| M | | | 09 51 | | | |
| 29 | Shillong | Z | iP | 00 35 30 | | Slight, distant rarefaction. |
| 29 | Epc:- 25.5° N, 67.6° E, West Pakistan. - h = about 23 km. - H = 01h. 25m. 35.5s. (USCGS). | | | | | |
| | Poona | Z | eP | 01 27 50 | 930 | Slight. |
| PP | | | 27 59 | | | |
| LQ | | | 29 18 | | | |
| eS | | | 29 27 | | | |
| SSS M | | | 29 50 31/00 | | | |
| | Bombay | NE | e | 01 28 12 | | Slight, near. |
| e | | | 29 50 | | | |
| | Dehra Dun | NE | e | 01 28 24 | 1380 | Slight. |
| LQ | | | 30 47 | | | |
| iS | | | 30 55 | | | |

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

October, 1960.

| | | | | | | |
|----------------|-----------------------|------------|-----------------------------|---|------|---|
| 29 (Contd.) | Dehra Dun (Contd.) | NE | SS SSS LR M | 01 31 10 31 21 31 28 32 30 | | |
| | Chatra | NE | eP e e e e | 01 29 44 34 51 36 05 36 20 36 39 37 21 | 1970 | Moderate. |
| | Shillong | ZNE NE | eP PPP iS LQ M | 01 30 28 31 08 34 29 34 51 37 21 | 2480 | Slight, rarefaction. |
| | Hyderabad | E N | eS e LR M M | 01 31 38 32 20 33 11 34 02 34 20 | | Period = 8 secs. Gr. dis. = 4 μ . Period = 15 secs. Gr. dis. = 9 μ . |
| | Bokaro | NE | e i | 01 31 19 34 26 | | Very slight. |
| | Vizianagram | N | e | 01 31 51 | | Slight, distant. |
| | Madras | E | i e e | 01 32 58 34 50 35 18 | | |
| | Calcutta | NE | e e e | 01 33 31 34 29 35 41 | | Slight. |
| | Colombo | E | e e | 01 36 21 39 21 | | Amp : = 1.0 m.m. |
| 29 | Shillong | Z | iP | 06 41 03 | | Slight, distant rarefaction. |
| 29 | Shillong | Z | iPg iSg | 06 44 19 44 31 | 100 | Slight, rarefaction. |
| 29 | Shillong | Z | iP | 07 47 20 | | Slight, distant rarefaction. |
| 29 | Shillong | Z | iP LQ iS LR Sg | 11 56 55 57 29 57 38 57 38 57 56 | 400 | Slight, compression. |

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

October, 1960.

| | | | | | | |
|----|-----------|---------|------------|-------------------|----|---------------------------------------|
| 29 | Tocklai | E | eP | 11 57 05 | | Slight, initial ground movement East. |
| 29 | Shillong | Z | iP | 16 52 43 | | Slight, distant Rarefaction. |
| 29 | Shillong | Z | iP | 17 15 13 | | Slight, distant compression. |
| 29 | Shillong | Z | iP | 17 18 10 | | Slight, distant compression. |
| 29 | Shillong | Z | iP | 21 53 19 | | Slight, distant compression. |
| 29 | Shillong | Z | iP | 23 30 26 | | Slight, distant. Rarefaction. |
| 29 | Shillong | Z | iP | 23 51 40 | | Slight, distant rarefaction. |
| 30 | Shillong | Z | i | 00 49 29 | | Slight. |
| 30 | Shillong | Z | iP | 09 31 19 | | Slight, distant compression. |
| 30 | Shillong | Z | iPg iSg | 10 58 40 58 47 | 60 | Slight, compression. |
| 30 | Poona | Z | eP | 11 34 39 | | Feeble. |
| 30 | Bombay | E NE | e e | 11 35 02 35 44 | | Local minor, tremor. |
| | Dehra Dun | NE | e e | 11 35 31 36 48 | | Feeble. |

30 Epc:- 23.3° S, 70.3° W, Near Coast of Chile.
 - h = 76 km. - H = 12h. 14m. 33s. (USCGS).
 Mag : 6 $\frac{3}{4}$ (Berk), 6 $\frac{3}{4}$ (Pas).

| | | | | | |
|------------|----|-------------|----------------------------|--|------------------------------|
| Bombay | E | ePKP1 e | 12 34 14 57 44 | | |
| Poona | Z | iPKP | 12 34 16 | | |
| Dehra Dun | NE | e i i | 12 34 23 37 18 48 38 | | |
| Chatra | Z | e | 12 34 31 | | Feeble, distant. |
| Shillong | Z | iPKP | 12 34 37 | | Slight, distant rarefaction. |
| Kodaikanal | E | e | 13 29 13 | | Tremor. |

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| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|-----------------------|-------------|--------|------------------|----------------------------|-----------------|---|
| <u>October, 1960.</u> | | | | | | |
| 30 (Contd.) | Hyderabad | NE | M | 13 38 26 | | Period = 15 secs. Gr. dis. = 6 μ . |
| 30 | Shillong | Z | iPg iSg | 13 47 53 47 55 | 20 | Feeble, rarefaction. |
| 30 | Shillong | Z | e | 14 19 14 | | Feeble. |
| 30 | Vizianagram | NE | iPg | 15 38 42 | | Slight. |
| 30 | Shillong | Z | iP | 15 58 51 | | Slight, distant rarefaction. |
| | Chatra | Z | iP | 15 59 25 | | Feeble, compression. |
| | Poona | Z | eP | 16 00 28 | | Tremor. |
| | Dehra Dun | NE | e e | 16 00 35 08 18 | | Feeble. |
| 30 | Shillong | Z | iP | 16 25 53 | | Slight, distant rarefaction. |
| 30 | Shillong | Z | e | 19 09 53 | | Feeble. |
| | Poona | Z | iP | 21 52 21 | | Slight. |
| 30 | Dehra Dun | NE | e | 21 52 33 | | Feeble. |
| | Chatra | Z | i | 21 52 42 | | Feeble, rarefaction. |
| | Shillong | Z | iP | 21 52 45 | | Slight, rarefaction. |
| 30 | Chatra | Z | e | 23 48 57 | | Feeble. |
| 31 | Shillong | Z | e | 06 33 35 | | Feeble, distant. |
| 31 | Shillong | Z | iP | 09 59 24 | | Slight, rarefaction. |
| 31 | Shillong | Z | ePg iSg | 10 01 24 01 35 | 90 | Slight. |
| 31 | Shillong | Z | iP | 16 09 20 | | Slight, rarefaction. |
| 31 | Shillong | Z | iP iPg iSg | 18 19 04 19 06 19 21 | 140 | Slight, rarefaction. |
| 31 | Shillong | Z | iP | 19 21 40 | | Slight, rarefaction. |
| 31 | Shillong | Z | eP iS | 19 50 44 50 59 | 130 | Slight. |
| 31 | Shillong | Z | e | 20 27 52 | | Feeble, distant. |
| 31 | Shillong | Z | iP | 20 58 45 | | Slight, distant compression. |
| | Chatra | Z | iP | 20 59 16 | | Feeble, distant compression. |

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

October, 1960.

| | | | | | | | |
|----|----------|---|-----------|----|----|--------------------|------------------------------|
| 31 | Shillong | Z | 1P | 21 | 00 | 23 | Slight, distant compression. |
| 31 | Shillong | Z | eP 1Sg | 23 | 47 | 30 140 47 47 | Slight. |
| 31 | Shillong | Z | 1P | 23 | 53 | 22 | Slight, distant rarefaction. |

The following is the list of earthquakes that are reported by the voluntary observers from the different stations during the month of October, 1960.

| Place | Date in | Time in | No. of | Duration of | Intensity in | Remarks |
|--------------------|----------|----------|--------|-------------|--------------|---------|
| | G. M. T. | G. M. T. | shock | shock. | R.F. Scale. | |
| Nowgang Assam | 1.10.60 | 03 01 00 | 1 | 30 Secs. | IV | |
| Haflong Town. | 1.10.60 | 03 04 00 | 1 | 50 secs. | IV. | |
| Luding Assam. | 1.10.60 | 03 00 00 | 1 | 1 sec. | IV | |
| Gauhati Air Port. | 1.10.60 | 03 04 00 | 1 | 2 secs. | IV. | |
| Shillong | 14.10.60 | 16 47 00 | 1 | 20 secs. | IV. | |
| Calinga- patnam | 19.10.60 | 04 35 00 | 1 | 3 secs. | III | |

!!!!!!!!!!!!!!!!!!!!

MICROSEISMIC TABULATION

| ----- | | | | | ----- | | | | |
|--------------------|--------|-----|---------------|----------|------------------|--------|---|-----------|---------|
| Date | Hour | K | Mean | Mean | Date | Hour | K | Mean | Mean |
| | C.M.T. | | amplitude | period | | G.M.T. | | amplitude | period |
| ----- | | | | | ----- | | | | |
| | | | in m.m. | in secs. | | | | in m.m. | in sec. |
| ----- | | | | | ----- | | | | |
| Station : Shillong | | | October, 1960 | | Component : E-W. | | | | |
| 01 | 00 | 3 | 0.4 | 3.8 | 11 | 00 | 3 | 0.6 | 4.1 |
| | 06 | 3 | 0.4 | 3.8 | | 06 | 3 | 0.5 | 4.3 |
| | 12 | 3 | 0.4 | 3.8 | | 12 | 3 | 0.5 | 4.1 |
| | 18 | 3 | 0.4 | 3.5 | | 18 | 3 | 0.4 | 3.9 |
| 02 | 00 | 3 | 0.4 | 3.5 | 12 | 00 | 3 | 0.4 | 3.9 |
| | 06 | 3 | 0.4 | 3.4 | | 06 | 3 | 0.4 | 3.9 |
| | 12 | 3 | 0.4 | 3.6 | | 12 | 3 | 0.5 | 3.9 |
| | 18 | 3 | 0.4 | 3.6 | | 18 | 3 | 0.3 | 3.8 |
| 03 | 00 | 3 | 0.4 | 3.6 | 13 | 00 | 3 | 0.3 | 3.7 |
| | 06 | 3 | 0.4 | 3.7 | | 06 | 3 | 0.4 | 4.1 |
| | 12 | 3 | 0.4 | 3.7 | | 12 | 3 | 0.4 | 4.2 |
| | 18 | 3 | 0.4 | 3.8 | | 18 | 3 | 0.4 | 4.4 |
| 04 | 00 | 3 | 0.4 | 3.8 | 14 | 00 | 3 | 0.4 | 4.4 |
| | 06 | 3 | 0.5 | 3.9 | | 06 | 3 | 0.4 | 4.5 |
| | 12 | 3 | 0.5 | 4.0 | | 12 | 3 | 0.4 | 4.5 |
| | 18 | 3 | 0.4 | 3.9 | | 18 | 3 | 0.4 | 4.3 |
| 05 | 00 | 3 | 0.5 | 4.1 | 15 | 00 | 3 | 0.4 | 4.3 |
| | 06 | 3 | 0.5 | 3.8 | | 06 | 3 | 0.4 | 4.5 |
| | 12 | 3 | 0.5 | 3.7 | | 12 | 3 | 0.4 | 4.5 |
| | 18 | 3 | 0.5 | 4.0 | | 18 | 3 | 0.4 | 4.5 |
| 06 | 00 | 3 | 0.4 | 3.9 | 16 | 00 | 3 | 0.4 | 4.4 |
| | 06 | 3 | 0.5 | 4.2 | | 06 | 3 | 0.4 | 4.6 |
| | 12 | 3 | 0.5 | 4.3 | | 12 | 3 | 0.4 | 4.7 |
| | 18 | 3 | 0.5 | 4.3 | | 18 | 3 | 0.4 | 4.8 |
| 07 | 00 | 3 | 0.4 | 4.0 | 17 | 00 | 3 | 0.4 | 4.6 |
| | 06 | 3 | 0.4 | 3.9 | | 06 | 3 | 0.4 | 4.8 |
| | 12 | 3 | 0.4 | 4.0 | | 12 | 3 | 0.4 | 4.7 |
| | 18 | 3 | 0.4 | 4.0 | | 18 | 3 | 0.4 | 4.8 |
| 08 | 00 | 3 | 0.4 | 3.9 | 18 | 00 | 3 | 0.4 | 4.9 |
| | 06 | ... | - | - | | 06 | 3 | 0.4 | 4.9 |
| | 12 | 1 | 0.5 | 3.4 | | 12 | 3 | 0.4 | 4.5 |
| | 18 | 1 | 0.5 | 3.4 | | 18 | 3 | 0.4 | 4.7 |
| 09 | 00 | 1 | 0.6 | 3.6 | 19 | 00 | 3 | 0.4 | 4.5 |
| | 03 | 1 | 0.6 | 3.5 | | 06 | 3 | 0.5 | 4.9 |
| | 06 | 1 | 0.7 | 3.9 | | 12 | 3 | 0.5 | 4.9 |
| | 09 | 1 | 0.9 | 3.9 | | 18 | 3 | 0.5 | 5.0 |
| | 12 | 1 | 0.9 | 3.9 | | | | | |
| | 15 | 1 | 0.9 | 4.0 | 20 | 00 | 3 | 0.5 | 5.0 |
| | 18 | 1 | 1.2 | 4.1 | | 06 | 3 | 0.5 | 5.0 |
| | 21 | 1 | 1.3 | 4.2 | | 12 | 3 | 0.4 | 4.7 |
| | | | | | | 18 | 3 | 0.4 | 4.8 |
| 10 | 00 | 1 | 1.5 | 4.2 | 21 | 00 | 3 | 0.4 | 4.7 |
| | 03 | 1 | 1.3 | 4.1 | | 06 | 3 | 0.4 | 4.8 |
| | 06 | 1 | 1.3 | 4.1 | | 12 | 3 | 0.5 | 4.6 |
| | 12 | 1 | 0.9 | 4.1 | | 18 | 3 | 0.4 | 4.8 |
| | 18 | 1 | 0.6 | 4.2 | | | | | |

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| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|--------------------|------|---|------------------------|----------------------|------------------|------|-----|------------------------|----------------------|
| G.M.T. | | | | | G.M.T. | | | | |
| Station : Shillong | | | | | October, 1960 | | | | |
| | | | | | Component : E-W. | | | | |
| 22 | 00 | 3 | 0.3 | 4.5 | Station : Madras | | | | |
| | 06 | 3 | 0.3 | 4.4 | 01 | 00 | ... | - | - |
| | 12 | 3 | 0.3 | 4.4 | | 03 | ... | - | - |
| | 18 | 3 | 0.3 | 4.4 | | 06 | 3 | 0.5 | 4.1 |
| 23 | 00 | 3 | 0.3 | 4.2 | | 12 | ... | - | - |
| | 06 | 3 | 0.3 | 4.3 | | 18 | 1 | 0.3 | 2.3 |
| | 12 | 3 | 0.3 | 4.2 | 02 | 00 | 3 | 0.5 | 3.8 |
| | 18 | 3 | 0.4 | 4.5 | | 03 | 3 | 0.5 | 3.9 |
| 24 | 00 | 3 | 0.4 | 4.5 | | 06 | 3 | 0.4 | 3.6 |
| | 06 | 3 | 0.4 | 4.5 | | 12 | 3 | 0.3 | 3.6 |
| | 12 | 3 | 0.4 | 4.4 | | 18 | 3 | 0.5 | 3.5 |
| | 18 | 3 | 0.4 | 4.6 | 03 | 00 | 3 | 0.5 | 3.5 |
| 25 | 00 | 3 | 0.4 | 4.8 | | 03 | 3 | 0.5 | 3.1 |
| | 06 | 3 | 0.4 | 4.8 | | 06 | 3 | 0.5 | 3.4 |
| | 12 | 3 | 0.4 | 4.7 | | 12 | 3 | 0.5 | 3.4 |
| | 18 | 3 | 0.4 | 4.6 | | 18 | 3 | 0.5 | 3.3 |
| 26 | 00 | 3 | 0.3 | 4.7 | 04 | 00 | 3 | 0.5 | 3.4 |
| | 06 | 3 | 0.3 | 4.6 | | 03 | 3 | 0.7 | 3.3 |
| | 12 | 3 | 0.3 | 4.7 | | 06 | 3 | 0.7 | 3.5 |
| | 18 | 3 | 0.3 | 4.7 | | 12 | 3 | 0.7 | 3.7 |
| 27 | 00 | 3 | 0.4 | 4.6 | | 18 | 3 | 0.5 | 3.4 |
| | 06 | 3 | 0.4 | 4.7 | 05 | 00 | 3 | 0.5 | 3.3 |
| | 12 | 3 | 0.4 | 4.7 | | 03 | 3 | 0.5 | 3.1 |
| | 18 | 3 | 0.4 | 4.4 | | 06 | 3 | 0.6 | 3.4 |
| 28 | 00 | 3 | 0.4 | 4.6 | | 12 | 3 | 0.5 | 3.0 |
| | 06 | 3 | 0.4 | 4.5 | | 18 | 1 | 0.5 | 2.7 |
| | 12 | 3 | 0.3 | 4.5 | 06 | 00 | 3 | 0.5 | 3.4 |
| | 18 | 3 | 0.3 | 4.3 | | 03 | 3 | 0.5 | 3.1 |
| 29 | 00 | 3 | 0.3 | 4.3 | | 06 | 3 | 0.5 | 3.1 |
| | 06 | 1 | 0.5 | 4.6 | | 12 | 1 | 0.4 | 2.5 |
| | 12 | 1 | 0.5 | 4.4 | | 18 | 1 | 0.5 | 2.7 |
| | 18 | 1 | 0.6 | 4.7 | 07 | 00 | 3 | 0.5 | 3.1 |
| 30 | 00 | 1 | 0.9 | 5.0 | | 03 | 3 | 0.5 | 3.3 |
| | 03 | 1 | 1.0 | 4.9 | | 06 | 3 | 0.5 | 3.6 |
| | 06 | 1 | 1.1 | 5.0 | | 12 | 3 | 0.5 | 3.7 |
| | 09 | 1 | 1.5 | 5.2 | | 18 | 3 | 0.5 | 3.6 |
| | 12 | 1 | 1.6 | 5.3 | 08 | 00 | 3 | 0.5 | 3.8 |
| | 15 | 1 | 1.7 | 5.2 | | 03 | 3 | 0.4 | 3.5 |
| | 18 | 1 | 2.4 | 5.4 | | 06 | ... | - | - |
| | 21 | 1 | 2.6 | 5.1 | | 12 | 3 | 0.4 | 3.3 |
| 31 | 00 | 1 | 3.4 | 5.2 | | 18 | 3 | 0.5 | 3.5 |
| | 03 | 1 | 4.4 | 5.3 | 09 | 00 | 3 | 0.5 | 3.3 |
| | 06 | 1 | 6.3 | 5.2 | | 03 | 3 | 0.3 | 3.2 |
| | 09 | 1 | 6.7 | 5.3 | | 06 | 3 | 0.3 | 3.0 |
| | 12 | 1 | 4.6 | 5.3 | | 12 | 3 | 0.3 | 3.2 |
| | 15 | 1 | 2.5 | 5.3 | | 18 | 3 | 0.4 | 3.2 |
| | 18 | 1 | 1.9 | 5.2 | | | | | |

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------------------|------|-----|------------------------|----------------------|------------------|------|-----|------------------------|----------------------|
| Station : Madras | | | | | October, 1960 | | | | |
| | | | | | Component : E-W. | | | | |
| 10 | 00 | 3 | 0.3 | 3.1 | 19 | 00 | 1 | 0.1 | 2.4 |
| | 03 | 3 | 0.4 | 3.8 | | 03 | 1 | 0.1 | 2.5 |
| | 06 | 3 | 0.4 | 3.6 | | 06 | 1 | 0.1 | 2.3 |
| | 12 | 3 | 0.4 | 3.3 | | 12 | 3 | 0.3 | 6.8 |
| | 18 | 3 | 0.5 | 3.7 | | 18 | 3 | 0.3 | 6.5 |
| 11 | 00 | 3 | 0.4 | 3.7 | 20 | 00 | 3 | 0.3 | 6.0 |
| | 03 | ... | - | - | | 03 | 3 | 0.3 | 5.5 |
| | 06 | 3 | 0.4 | 3.5 | | 06 | 3 | 0.3 | 5.8 |
| | 12 | 1 | 0.3 | 3.1 | | 12 | ... | - | - |
| | 18 | 1 | 0.4 | 3.1 | | 18 | 3 | 0.2 | 5.4 |
| 12 | 00 | 1 | 0.3 | 3.1 | 21 | 00 | 1 | 0.1 | 2.7 |
| | 03 | 3 | 0.3 | 3.7 | | | 3 | 0.3 | 5.5 |
| | 06 | 3 | 0.3 | 3.9 | | 03 | 1 | 0.1 | 2.7 |
| | 12 | 3 | 0.4 | 3.4 | | 06 | 1 | 0.1 | 2.6 |
| | 18 | 3 | 0.3 | 3.6 | | 12 | 1 | 0.1 | 2.7 |
| 13 | 00 | 3 | 0.3 | 3.7 | | 18 | 1 | 0.1 | 2.8 |
| | 03 | 3 | 0.2 | 3.8 | 22 | 00 | 1 | 0.1 | 2.8 |
| | 06 | 3 | 0.3 | 3.8 | | 03 | 1 | 0.1 | 2.8 |
| | 12 | 3 | 0.2 | 4.0 | | 06 | 1 | 0.1 | 2.9 |
| | 18 | 3 | 0.3 | 3.9 | | 12 | 1 | 0.1 | 2.6 |
| 14 | 00 | 0,0 | - | - | | 18 | 1 | 0.1 | 2.7 |
| | 03 | 3 | 0.3 | 4.3 | 23 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.3 | 4.3 | | 03 | 1 | 0.1 | 2.7 |
| | 12 | 3 | 0.3 | 4.1 | | 06 | 1 | 0.1 | 2.7 |
| | 18 | 3 | 0.2 | 4.1 | | 12 | 0,0 | - | - |
| 15 | 00 | 0,0 | - | - | | 18 | 1 | 0.1 | 2.5 |
| | 03 | 0,0 | - | - | 24 | 00 | 1 | 0.1 | 2.7 |
| | 06 | 3 | 0.6 | 7.1 | | 03 | 1 | 0.1 | 2.7 |
| | 12 | 3 | 0.7 | 6.8 | | 06 | 1 | 0.1 | 2.6 |
| | 18 | 3 | 0.6 | 7.2 | | 12 | 1 | 0.1 | 2.6 |
| 16 | 00 | 3 | 0.5 | 7.2 | | 18 | 1 | 0.1 | 2.8 |
| | 03 | 3 | 0.6 | 7.1 | 25 | 00 | 1 | 0.1 | 2.7 |
| | 06 | 3 | 0.6 | 7.2 | | 03 | 1 | 0.1 | 2.6 |
| | 12 | 3 | 0.5 | 7.2 | | 06 | 1 | 0.1 | 2.6 |
| | 18 | 3 | 0.5 | 7.2 | | 12 | ... | - | - |
| 17 | 00 | 3 | 0.5 | 7.1 | | 18 | 1 | 0.1 | 2.7 |
| | 03 | 3 | 0.5 | 6.9 | 26 | 00 | 1 | 0.1 | 2.8 |
| | 06 | 3 | 0.5 | 7.0 | | 03 | ... | - | - |
| | 12 | 3 | 0.5 | 7.0 | | 06 | 1 | 0.1 | 2.9 |
| | 18 | 3 | 0.5 | 7.2 | | 12 | 1 | 0.1 | 2.9 |
| 18 | 00 | ... | - | - | | 18 | 1 | 0.1 | 2.9 |
| | 03 | 3 | 0.6 | 7.3 | 27 | 00 | 1 | 0.1 | 2.8 |
| | 06 | 1 | 0.1 | 2.8 | | 03 | 1 | 0.1 | 2.8 |
| | 12 | 1 | 0.1 | 2.5 | | 06 | 1 | 0.1 | 2.8 |
| | 18 | 1 | 0.3 | 2.7 | | 12 | 1 | 0.1 | 2.7 |
| | | | | | | 18 | 1 | 0.1 | 2.7 |

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| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------|----------------------|--------|------|---|------------------------|----------------------|
| | | | | | G.M.F. | | | | |

Station : Madras October, 1960 Component; E-W.

| | | | | | | | | | |
|----|----|-----|-----|-----|----------------|-----|-----|-----|-----|
| 28 | 00 | 1 | 0.1 | 2.8 | 05 (Contd.) | 12 | 1 | 0.9 | 3.1 |
| | 03 | 1 | 0.1 | 2.8 | | 15 | 1 | 1.1 | 2.9 |
| | 06 | ... | - | - | | 18 | 1 | 0.8 | 3.0 |
| | 12 | 1 | 0.1 | 2.7 | | 21 | 1 | 0.8 | 3.1 |
| | 18 | 1 | 0.1 | 2.9 | | | | | |
| 29 | 00 | 1 | 0.2 | 3.0 | 04 | 00 | 1 | 0.9 | 3.1 |
| | 03 | 1 | 0.3 | 3.2 | 03 | ... | - | - | - |
| | 06 | 1 | 0.4 | 3.5 | 06 | 1 | 1.1 | 3.0 | |
| | 09 | 1 | 0.6 | 4.1 | 09 | 1 | 0.9 | 3.1 | |
| | 12 | ... | - | - | 12 | 1 | 1.0 | 3.1 | |
| | 15 | 1 | 1.1 | 4.5 | 15 | 1 | 1.0 | 3.2 | |
| | 18 | 1 | 1.3 | 4.7 | 18 | 1 | 1.0 | 2.9 | |
| 30 | 21 | 1 | 1.3 | 4.7 | 21 | 1 | 0.9 | 3.0 | |
| | 00 | 1 | 1.3 | 4.9 | 05 | 00 | ... | - | - |
| | 03 | 1 | 2.4 | 5.1 | 03 | ... | - | - | - |
| | 06 | 1 | 2.5 | 5.1 | 06 | ... | - | - | - |
| | 09 | 1 | 2.7 | 5.2 | 09 | ... | - | - | - |
| | 12 | 1 | 3.2 | 5.2 | 12 | 1 | 0.8 | 3.4 | |
| | 15 | 1 | 3.3 | 5.4 | 15 | 1 | 0.9 | 3.2 | |
| 31 | 18 | 1 | 3.3 | 5.4 | 18 | 1 | 1.0 | 3.2 | |
| | 21 | 2 | 3.7 | 2.7 | 21 | 1 | 1.2 | 3.2 | |
| | 00 | 2 | 3.9 | 5.7 | 06 | 00 | 1 | 1.2 | 3.1 |
| | 03 | 2 | 4.3 | 5.8 | 03 | ... | - | - | - |
| | 06 | 2 | 3.5 | 5.6 | 06 | ... | - | - | - |
| | 09 | 2 | 3.2 | 5.8 | 09 | 1 | 1.0 | 3.1 | |
| | 12 | 1 | 3.1 | 5.6 | 12 | ... | - | - | - |
| 15 | 1 | 3.1 | 5.5 | 15 | ... | - | - | - | |
| 18 | 1 | 2.7 | 5.7 | 18 | ... | - | - | - | |
| 21 | 1 | 2.5 | 5.5 | 21 | 3 | 1.1 | 3.0 | | |

.....

Station : Bombay (Colaba)

| | | | | | | | | | |
|----|----|-----|-----|-----|----|-----|-----|-----|-----|
| 01 | 00 | 3 | 0.6 | 4.7 | 07 | 00 | 3 | 1.0 | 2.8 |
| | | | 0.4 | 2.4 | | | | 0.5 | 1.5 |
| | 06 | 3 | 0.7 | 4.0 | | 06 | 3 | 1.0 | 3.3 |
| | | | 0.4 | 2.1 | | | | 0.5 | 1.7 |
| | 12 | 3 | 0.6 | 3.6 | | 12 | 3 | 0.9 | 3.2 |
| | | | 0.7 | 2.3 | | | | 0.4 | 1.6 |
| | 15 | 1 | 0.8 | 2.8 | | 18 | 3 | 0.8 | 2.9 |
| 02 | 18 | 1 | 0.7 | 2.8 | | | 0.6 | 1.6 | |
| | 21 | 1 | 0.6 | 2.9 | 08 | 00 | ... | - | - |
| | 00 | 1 | 0.8 | 2.7 | 06 | 3 | 0.7 | 2.7 | |
| | 03 | 1 | 0.7 | 2.8 | | | 0.5 | 1.6 | |
| | 06 | ... | - | - | 12 | 3 | 0.8 | 2.8 | |
| 03 | 12 | ... | - | - | 18 | 3 | 0.4 | 1.6 | |
| | 18 | ... | - | - | 18 | 3 | 0.6 | 2.6 | |
| | 00 | ... | - | - | | | 0.4 | 1.7 | |
| | 03 | 1 | 1.2 | 3.0 | 09 | 00 | 3 | 0.7 | 2.8 |
| | 06 | ... | - | - | | | 0.4 | 1.8 | |
| 03 | 09 | 1 | 1.0 | 3.1 | 06 | 3 | 0.9 | 3.1 | |
| | | | - | - | | | 0.4 | 1.5 | |
| | | | - | - | 12 | 3 | 0.8 | 3.9 | |
| | | | - | - | | | 0.4 | 1.6 | |
| | | - | - | 18 | 3 | 0.8 | 4.0 | | |
| | | - | - | | | 0.4 | 1.8 | | |
| | | - | - | 21 | 1 | 1.1 | 3.9 | | |

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| Date | Hour | K | Mean amplitude in mm. | Mean period in secs. | Date | Hour | K | Mean amplitude in mm. | Mean period in secs. |
|------|------|---|-----------------------|----------------------|------|------|---|-----------------------|----------------------|
|------|------|---|-----------------------|----------------------|------|------|---|-----------------------|----------------------|

Station : Bombay (Colaba)

October, 1960

Component : E-W.

| | | | | | | | | | |
|----|----|-----|-----|-----|----------|----|-----|-----|-----|
| 10 | 00 | 1 | 1.3 | 3.8 | 17 | 09 | ... | - | - |
| | 03 | 1 | 1.1 | 3.5 | (Contd.) | | | | |
| | 06 | 1 | 0.9 | 3.6 | | 12 | 1 | 0.8 | 6.6 |
| | 09 | 1 | 0.9 | 3.6 | | 15 | 1 | 0.8 | 5.8 |
| | 12 | 3 | 0.8 | 3.8 | | 18 | 1 | 0.8 | 6.3 |
| | | | 0.4 | 2.0 | | 21 | 1 | 0.8 | 6.3 |
| | 15 | ... | - | - | | | | | |
| | 18 | 3 | 0.4 | 4.2 | 18 | 00 | ... | - | - |
| | | | 0.4 | 2.0 | | 03 | ... | - | - |
| | 21 | ... | - | - | | 06 | ... | - | - |
| 11 | 00 | 3 | 0.6 | 4.4 | | 09 | ... | - | - |
| | | | 0.4 | 2.3 | | 12 | 1 | 0.8 | 5.8 |
| | 06 | 3 | 0.4 | 4.3 | | 15 | 1 | 1.0 | 6.3 |
| | | | 0.4 | 2.0 | | 18 | 1 | 0.9 | 6.2 |
| | 12 | 3 | 0.5 | 4.4 | | 21 | 1 | 0.6 | 6.0 |
| | | | 0.4 | 1.8 | | | | | |
| | 18 | 3 | 0.4 | 4.7 | 19 | 00 | 1 | 0.6 | 4.9 |
| | | | 0.4 | 2.3 | | 03 | 1 | 0.6 | 5.6 |
| | | | | | | 06 | 1 | 0.7 | 5.3 |
| 12 | 00 | 3 | 0.5 | 4.1 | | 09 | ... | - | - |
| | | | 0.3 | 2.0 | | 12 | 1 | 0.6 | 5.7 |
| | 06 | ... | - | - | | 15 | 1 | 0.6 | 5.2 |
| | 12 | 3 | 0.4 | 4.6 | | 18 | 1 | 0.8 | 6.0 |
| | | | 0.3 | 1.9 | | 21 | 1 | 0.7 | 5.8 |
| | 18 | 2 | 0.4 | 3.1 | | | | | |
| 13 | 00 | 2 | 0.4 | 3.4 | 20 | 00 | 1 | 0.7 | 5.5 |
| | 06 | 2 | 0.4 | 3.2 | | 03 | 1 | 0.7 | 5.7 |
| | 12 | ... | - | - | | 06 | 1 | 0.6 | 5.0 |
| | 18 | 2 | 0.4 | 4.1 | | 09 | ... | - | - |
| | | | | | | 12 | ... | - | - |
| 14 | 00 | ... | - | - | | 15 | 1 | 0.7 | 5.6 |
| | 06 | ... | - | - | | 18 | 1 | 0.6 | 5.5 |
| | 12 | 2 | 0.5 | 3.6 | | 21 | 1 | 0.6 | 6.5 |
| | 18 | 2 | 0.4 | 3.3 | 21 | 00 | 2 | 0.5 | 5.0 |
| 15 | 00 | 1 | 0.4 | 4.4 | | 06 | 2 | 0.5 | 4.7 |
| | 03 | ... | - | - | | 12 | ... | - | - |
| | 06 | ... | - | - | | 18 | 2 | 0.5 | 4.8 |
| | 09 | ... | - | - | 22 | 00 | 2 | 0.4 | 4.7 |
| | 12 | 1 | 0.7 | 5.7 | | 06 | ... | - | - |
| | 15 | 1 | 0.6 | 6.0 | | 12 | 2 | 0.3 | 4.5 |
| | 18 | 1 | 0.7 | 5.3 | | 18 | 2 | 0.4 | 4.6 |
| | 21 | 1 | 0.7 | 6.3 | | | | | |
| 16 | 00 | 1 | 0.7 | 6.4 | 23 | 00 | 2 | 0.4 | 4.9 |
| | 03 | ... | - | - | | 06 | 2 | 0.4 | 5.0 |
| | 06 | 1 | 0.9 | 6.4 | | 12 | 2 | 0.4 | 4.7 |
| | 09 | 1 | 0.9 | 6.5 | | 18 | 2 | 0.4 | 4.4 |
| | 12 | 1 | 0.8 | 6.2 | 24 | 00 | 2 | 0.4 | 5.3 |
| | 15 | ... | - | - | | 03 | ... | - | - |
| | 18 | 1 | 1.1 | 6.5 | | 06 | 2 | 0.5 | 4.2 |
| | 21 | 1 | 1.1 | 6.5 | | 09 | ... | - | - |
| 17 | 00 | 1 | 0.8 | 6.5 | | 12 | ... | - | - |
| | 03 | 1 | 0.8 | 6.3 | | 15 | 1 | 0.6 | 6.0 |
| | 06 | 1 | 0.8 | 6.2 | | 18 | 1 | 0.6 | 5.9 |
| | | | | | | 21 | 1 | 0.5 | 6.3 |

-50-

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in micron | Mean period in secs. |
|------|------|---|---------------------------|-------------------------|--------|------|---|-----------------------------|-------------------------|
| | | | | | G.M.T. | | | | |

Station : Bombay

October, 1960

Component : E-W.

| | | | | | | | | | |
|----|----|-----|-----|-----|----------------------|----|-----|-----|-----|
| 25 | 00 | 1 | 0.5 | 5.6 | Station : Port Blair | | | | |
| | 03 | 1 | 0.6 | 6.2 | 01 | 00 | 3 | 0.4 | 7.2 |
| | 06 | 1 | 0.5 | 6.0 | | 06 | 3 | 0.4 | 7.2 |
| | 09 | 1 | 0.6 | 6.0 | | 12 | 3 | 0.4 | 7.2 |
| | 12 | 1 | 0.5 | 6.0 | | 18 | 3 | 0.4 | 7.2 |
| | 15 | 1 | 0.5 | 6.0 | 02 | 00 | 3 | 0.4 | 7.2 |
| | 18 | 1 | 0.7 | 6.2 | | 06 | 0,0 | - | - |
| | 21 | 1 | 0.6 | 6.0 | | 12 | 0,0 | - | - |
| 26 | 00 | 1 | 0.7 | 6.2 | | 18 | 0,0 | - | - |
| | 03 | 1 | 0.7 | 6.0 | 03 | 00 | 0,0 | - | - |
| | 06 | 1 | 0.6 | 6.3 | | 06 | 0,0 | - | - |
| | 09 | 1 | 0.8 | 6.2 | | 12 | 0,0 | - | - |
| | 12 | 1 | 0.6 | 6.0 | | 18 | 0,0 | - | - |
| | 15 | 1 | 0.6 | 6.5 | 04 | 00 | 0,0 | - | - |
| | 18 | 1 | 0.6 | 5.6 | | 06 | 0,0 | - | - |
| | 21 | 1 | 0.6 | 6.2 | | 12 | 0,0 | - | - |
| 27 | 00 | 1 | 0.6 | 6.0 | | 18 | ... | - | - |
| | 03 | 1 | 0.6 | 5.8 | 05 | 00 | ... | - | - |
| | 06 | 1 | 0.6 | 5.5 | | 06 | 3 | 0.4 | 2.9 |
| | 09 | 1 | 0.6 | 5.3 | | 12 | 3 | 0.4 | 2.9 |
| | 12 | 1 | 0.6 | 5.4 | | 18 | 3 | 0.4 | 2.9 |
| | 15 | 1 | 0.5 | 5.0 | 06 | 00 | 3 | 0.4 | 3.2 |
| | 18 | 1 | 0.6 | 5.0 | | 06 | 3 | 0.4 | 3.2 |
| | 21 | 1 | 0.5 | 5.5 | | 12 | 3 | 0.4 | 3.0 |
| 28 | 00 | 2 | 0.6 | 5.1 | | 18 | 3 | 0.4 | 3.0 |
| | 06 | ... | - | - | 07 | 00 | 3 | 0.4 | 3.7 |
| | 12 | 2 | 0.4 | 4.5 | | 06 | ... | - | - |
| | 18 | 2 | 0.4 | 4.3 | | 12 | 3 | 0.4 | 3.2 |
| 29 | 00 | 2 | 0.4 | 4.3 | | 18 | 3 | 0.4 | 3.2 |
| | 03 | ... | - | - | 08 | 00 | 3 | 0.4 | 3.2 |
| | 06 | 2 | 0.4 | 4.0 | | 06 | 0,0 | - | - |
| | 09 | ... | - | - | | 12 | 0,0 | - | - |
| | 12 | 1 | 0.6 | 4.2 | | 18 | 0,0 | - | - |
| | 15 | 1 | 0.5 | 4.2 | 09 | 00 | 0,0 | - | - |
| | 18 | 1 | 0.6 | 4.3 | | 06 | ... | - | - |
| | 21 | 1 | 0.7 | 4.3 | | 12 | 2 | 0.4 | 3.4 |
| 30 | 00 | 1 | 0.8 | 4.8 | | 18 | 2 | 0.4 | 3.4 |
| | 03 | 1 | 1.0 | 4.5 | 10 | 00 | 2 | 0.4 | 3.5 |
| | 06 | 1 | 1.3 | 5.0 | | 06 | ... | - | - |
| | 09 | 1 | 1.4 | 5.0 | | 12 | 3 | 0.4 | 3.1 |
| | 12 | 1 | 3.2 | 5.4 | | 18 | 3 | 0.4 | 3.1 |
| | 15 | 1 | 1.8 | 5.1 | 11 | 00 | 3 | 0.4 | 3.3 |
| | 18 | 1 | 1.8 | 5.5 | | 06 | 2 | 0.4 | 3.5 |
| | 21 | 1 | 2.0 | 5.2 | | 12 | 2 | 0.4 | 3.5 |
| 31 | 00 | 1 | 2.2 | 5.2 | | 18 | 2 | 0.4 | 3.5 |
| | 03 | 1 | 2.5 | 5.1 | | | | | |
| | 06 | 1 | 3.0 | 5.1 | | | | | |
| | 09 | 1 | 3.6 | 5.7 | | | | | |
| | 12 | 1 | 2.5 | 5.5 | | | | | |
| | 15 | 1 | 2.0 | 5.3 | | | | | |
| | 18 | 1 | 1.5 | 5.5 | | | | | |
| | 21 | 1 | 1.4 | 5.2 | | | | | |

 Date Hour K Mean Mean Date Hour K Mean Mean
 G.M.T. amplitude period G.M.T. amplitude period
 in micron in secs.

Station : Port Blair October, 1960 Component : E-W.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 12 | 00 | 2 | 0.4 | 3.5 | 23 | 00 | 0,0 | - | - |
| | 06 | ... | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 13 | 00 | 0,0 | - | - | 24 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 1 | 0.4 | 7.5 |
| 14 | 00 | 0,0 | - | - | 25 | 00 | 1 | 0.4 | 7.5 |
| | 06 | ... | - | - | | 06 | 1 | 0.4 | 7.5 |
| | 12 | 0,0 | - | - | | 12 | 1 | 0.4 | 7.5 |
| | 18 | 2 | 0.4 | 7.5 | | 18 | 1 | 0.4 | 7.5 |
| 15 | 00 | 2 | 0.4 | 7.5 | 26 | 00 | 1 | 0.4 | 7.5 |
| | 06 | 2 | 1.2 | 7.5 | | 06 | 1 | 0.4 | 7.5 |
| | 12 | 2 | 1.2 | 7.5 | | 12 | 1 | 0.4 | 7.5 |
| | 18 | 2 | 1.2 | 7.5 | | 18 | 1 | 0.4 | 7.5 |
| 16 | 00 | 2 | 1.2 | 7.5 | 27 | 00 | 0,0 | - | - |
| | 06 | 2 | 1.2 | 7.5 | | 06 | 0,0 | - | - |
| | 12 | 2 | 1.2 | 7.5 | | 12 | 0,0 | - | - |
| | 18 | 2 | 1.2 | 7.5 | | 18 | 3 | 0.4 | 2.6 |
| 17 | 00 | 2 | 1.2 | 7.5 | 28 | 00 | 3 | 0.4 | 2.7 |
| | 06 | 2 | 0.8 | 7.5 | | 06 | 3 | 0.4 | 2.6 |
| | 12 | 2 | 0.8 | 7.5 | | 12 | 3 | 0.4 | 2.6 |
| | 18 | 2 | 0.8 | 7.5 | | 18 | 3 | 0.4 | 2.6 |
| 18 | 00 | 2 | 0.8 | 7.5 | 29 | 00 | 3 | 0.8 | 2.7 |
| | 06 | 2 | 0.4 | 7.5 | | 06 | 2 | 0.8 | 3.5 |
| | 12 | 1 | 0.4 | 7.5 | | 12 | 2 | 1.2 | 3.5 |
| | 18 | 1 | 0.4 | 7.5 | | 18 | 2 | 1.2 | 3.5 |
| 19 | 00 | 1 | 0.4 | 7.5 | 30 | 00 | 2 | 1.2 | 3.5 |
| | 06 | ... | - | - | | 06 | 2 | 1.6 | 4.8 |
| | 12 | 0,0 | - | - | | 12 | 2 | 2.0 | 4.8 |
| | 18 | 0,0 | - | - | | 18 | 2 | 4.0 | 4.8 |
| 20 | 00 | 0,0 | - | - | 31 | 00 | 2 | 4.0 | 4.8 |
| | 06 | 0,0 | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | ... | - | - |
| | 18 | 0,0 | - | - | | 18 | ... | - | - |
| 21 | 00 | 0,0 | - | - | | | | | |
| | 06 | 0,0 | - | - | | | | | |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | | | | | |
| 22 | 00 | 0,0 | - | - | | | | | |
| | 06 | 0,0 | - | - | | | | | |
| | 12 | 0,0 | - | - | | | | | |
| | 18 | 0,0 | - | - | | | | | |

.....

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

November, 1960



Published under the direction of
Shri P.R. Krishna Rao
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a. s. l. (Metres) | Lithographic foundation | Instrument | Compt | Period in secs | Static Magnifi- cation | Damping ratio | Paper speed mm/min |
|----------------------|----------|-----------|--------------------------------|--|--------------------------|-------|----------------------|------------------------------|------------------|--------------------------|
| Agra | | | | | Columbia | E | To = 15 | Tg = 100 | | 15 |
| | | | | | Long Period | N | To = 15 | Tg = 185 | | 15 |
| | | | | | - do - | Z | To = 15 | Tg = 70 | | 15 |
| Bombay | 18.54°N | 72.40°E | 5 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 |
| | | | | | Sprengnether | E | To = Tg = 7 secs | | 30 | |
| Bokaro | 23.50°N | 85.48°E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 15 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 15 |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 |
| Calcutta | 22.32°N | 88.22°E | (1) 7 | Alluvium | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Omori-Ewing | N | 2 | 870 | Critical | 30 |
| | | | | | Omori-Ewing | N | 16 | 32 | - | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | - | 25.4 |
| Chatra | 26.50°N | 87.10°E | 151 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 15 |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 |
| | | | | | Benloff | Z | To = 0 | Tg = 0.45 secs | Critical | 60 |
| | | | | | Wenner- Accelerograph | ZNE | - | - | - | - |
| Colombo | 06.54°N | 79.52°E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - |
| Dehra Dun | 30.10°N | 78.02°E | 582 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| Hyderabad | 17.26°N | 78.27°E | 536 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| Kodaikanal | 10.14°N | 77.28°E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 |
| Madras | 13.00°N | 80.11°E | 15 | - | Sprengnether | E | To = Tg = 7.2 secs | Critical | 30 | |
| New Delhi | 28.35°N | 77.12°E | 207 | Massive Quartzite | | | | | | |
| Poona | 18.32°N | 73.51°E | 560 | Deccan Trap | Sprengnether | Z | To = Tg = 1.5 | | Critical | 30 |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 15 |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | |
| Port Blair | 11.49°N | 92.43°E | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 65:1 | 30 |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 |
| | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 |
| Sehore | | | | | | | | | | |
| Shillong | 25.34°N | 91.53°E | 1600 | Quartzite Sand Stone (Shillong Quartzite) | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Benloff | Z | To = 1.0 | Tg = 18 | | 60 |
| | | | | | Sprengnether | E | To = Tg = 5.3 | | Critical | 30 |
| Wenner Accelerograph | ZNE | - | - | - | - | | | | | |
| Tocklai | 28.45°N | 94.45°E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h = 0.8 | 60 |
| Vizianagram | 18.07°N | 83.27°E | | | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |
| | | | | | | | | | | |

| DATE | STATION | COMP. | PHASE | S. M. T. | Δ | REMARKS |
|------|---------|-------|-------|----------|----------|---------|
| | | | | h. m. s. | km. | |

November, 1960.

| | | | | | | |
|----|--|---------|---|--|-------|---|
| 01 | Shillong | Z F | iP eS | 00 53 00 51 25 | 820 | Slight |
| | Chatra | Z ZE | eP PP PPP LQ S SS LP SSS Sg,M | 00 53 34 53 41 53 42 55 00 55 09 55 21 55 26 55 32 55 04 | 930 | Foible |
| 01 | Shillong | Z | eP | 05 00 20 | | |
| 01 | Kodaikanal | E | e | 07 05 08 | | Tremor. |
| 01 | Vizianagram | NE | iP | 08 26 56 | | Slight, local. |
| 01 | Epc:- 38.45, 74.4°W, Near Coast of Chile -h = about 97 km. -M = 08h. 46m. 01.9s (USCGS) Mag:- 6 $\frac{3}{4}$ -7 (Perk), 7 $\frac{1}{4}$ -7 $\frac{3}{4}$ (Pas), 6 $\frac{1}{2}$ -6 $\frac{3}{4}$ (Pal) | | | | | |
| | Bombay | NE | ePKP ₁ PKS PPP(2) eSS | 09 05 32 09 13 19 08 27 55 | 16270 | |
| | | N | M | 10 13 20 | | Period = 17 secs. Cr. disp. 6 μ |
| | | E | M | 16 21 | | Period = 17 secs. Cr. disp. 4 μ . |
| | Poona | E E | iPKP ₁ ePP | 09 05 38 09 24 | 16790 | Other phases not clear. |
| | Madras | E | e | 09 05 40 | | Phase, indistinct due to microseismic activity |
| | Hyderabad | EN N | PKP ₁ e e e M | 09 05 47 09 20 12 35 27 26 54 09 59 14 | | |
| | | E | M | 59 19 | | Period = 15 secs. Cr. disp. = 10 μ Period = 21 secs. Cr. dis. = 24 μ |
| | Port Blair | E | iPKP | 09 05 50 | | |
| | Dehra Dun | NE N | ePKP e e i e e M | 09 05 53 07 55 08 59 13 31 16 49 20 34 24 54 | | |

STATION CODE PHASE Q. M. T. Δ DISTANCE
 h. m. s. km.

November, 1960.

| | | | | | | |
|----|------------|-----|--------|----------|-------|---|
| 01 | Chatra | NE | e | 09 05 57 | | Phase unidentifiable |
| | | | e | 17 11 | | |
| | Chatra | Z | ePKP1 | 09 05 58 | 17780 | |
| | | | PKP2 | 06 40 | | |
| | | NE | PKS | 09 29 | | |
| | | ZN | PP | 10 21 | | |
| | | NE | SKS2 | 13 06 | | |
| | | N | PPP | 14 16 | | |
| | | | SKKS1 | 17 14 | | |
| | | | SKKS | 18 05 | | |
| | | | SKSP | 20 47 | | |
| | | | SKKS2 | 21 16 | | |
| | | | PPS | 23 51 | | |
| | | | e | 24 00 | | |
| | | NE | SS | 30 36 | | |
| | | | SSP | 31 32 | | |
| | | | SSS | 36 51 | | |
| | | | M | 10 32 33 | | Period = 17 secs. Gr. dis. = 23 μ. |
| | | E | M | 33 34 | | Period = 16 secs. Gr. dis. = 16 μ. |
| | Shillong | ZNE | iPKP1 | 09 06 00 | 18020 | |
| | | N | PKP2 | 06 49 | | |
| | | | PKS1 | 09 28 | | |
| | | | PP | 10 36 | | |
| | | | PPP | 14 15 | | |
| | | | SKKS | 17 25 | | |
| | | | PPP(2) | 18 40 | | |
| | | | PPS | 24 13 | | |
| | | | SS | 31 09 | | |
| | | | SSP | 32 04 | | |
| | | | SSS | 37 39 | | Period = 16 secs. Gr. dis. = 3 μ. |
| | | | M | 10 35 36 | | |
| | Tocklai | E | e | 09 06 26 | | Slight, distant. |
| | Kodaikanal | E | e | 09 08 06 | | Tremor. |
| | Colombo | E | M | 10 09 00 | | Amp. = 1.5 mm. |
| 01 | Shillong | Z | e | 10 15 49 | | Slight, distant. |
| 01 | Shillong | Z | e | 10 20 22 | | Slight, distant of low quality. |
| | Chatra | Z | e | 10 22 24 | | Few cycles, distant, other phases merged in previous shock and hence not decipherable. |
| 01 | Shillong | Z | e | 12 45 43 | | Slight, distant |
| 01 | Shillong | Z | e | 16 24 00 | | Tremor, distant. |

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

November, 1960.

| | | | | | | |
|----|--|-------------------|--|---|-----|--|
| 01 | Shillong | Z | e | 18 23 36 | | Tremor, distant. |
| 01 | Shillong | Z | iP | 19 15 29 | | Slight, distant Rarefaction. |
| | Chatra | Z | iP | 19 15 46 | | Feeble, distant Rarefaction. |
| 01 | Shillong | Z | eP | 20 53 33 | | Slight, near. |
| 01 | Shillong | Z | eP | 21 34 34 | | Slight, near. |
| 01 | Shillong | Z | eP eS | 21 40 34 40 51 | 130 | Slight. |
| 01 | Shillong | Z | eP | 23 05 59 | | Slight, near. |
| 02 | Chatra | Z | e | 02 35 30 | | Very feeble, beginning not certain probably distant. |
| 02 | Chatra | Z | iPg iSg | 15 58 53 59 02 | 80 | Mild. |
| 02 | Epc:- 23.1° N, 93.8° E, Burma-East Pakistan Border. h = about 123 km. -H = 16h. 31m. 53.5s. (USCGS). | | | | | |
| | Shillong | Z NE | iP iS | 16 32 35 33 06 | 280 | Slight, initial ground movement towards East and Rarefaction. |
| | Tocklai | E | eP P* Pg PPP LQ LR S S* SS,Sg SSS | 16 32 42 32 47 32 52 32 56 33 07 33 13 33 16 33 21 33 27 33 36 | 310 | Slight. |
| | Calcutta | NE | eP iS | 16 33 07 34 02 | 510 | Slight. |
| | Chatra | Z N NE N | iPn Pg LQ iSn LR SSS,S* | 16 33 31 34 01 34 34 34 45 34 52 35 04 | 710 | Moderate. |
| | Bokaro | NE | iP iS | 16 33 36 34 50 | 710 | Slight, initial ground movement towards West. |

1960
 11 11 11
 11 11 11 km.

November, 1960.

| | | | | | | |
|----|-----------------------------------|-----|-----|----------|------|---|
| 02 | Patna | E | | 16 34 35 | | Slight. |
| | | | | 35 34 | | |
| | Benra Din | NE | e7 | 16 35 38 | 1730 | Slight. |
| | | | e8 | 35 31 | | |
| | | | e9 | 38 30 | | |
| | | | e10 | 38 24 | | |
| | | | e11 | 38 35 | | |
| | | | e12 | 38 41 | | |
| | | | e13 | 39 41 | | |
| | Madra | Z | | 16 36 13 | 2020 | Slight; other phases not clear. |
| | | | e14 | 39 34 | | |
| | Bombay | | e7 | 16 34 35 | 2130 | Slight |
| | | | e8 | 19 12 | | Period = 5 secs. |
| | | | e9 | 41 14 | | Gr. disp. = 2 μ . |
| | Hyderabad | | e10 | 16 16 38 | | Period = 3 secs. |
| | | | | | | Gr. disp. = 3 μ . |
| 02 | Epic:- 10.9° S, 134.2° E. Sactara | | | | | |
| | h = about 20 km. | | | | | |
| | -H ₀ = 17h. 14m. 30s. | | | | | |
| | 14° S, 163° E | | | | | |
| | -H = 17h. 14m. 30s. | | | | | |
| | Port Blair | | e15 | 17 26 30 | 210 | Slight. |
| | | | e16 | 28 30 | | |
| | | | e17 | 37 30 | | |
| | Tocklai | | e18 | 17 24 30 | | Slight, distant. |
| | Shillong | AME | e19 | 17 17 30 | 2250 | Moderate. Initial ground movement towards East and Rarefaction. |
| | | E | e20 | 29 30 | | |
| | | | e21 | 31 30 | | |
| | | NE | e22 | 32 30 | | |
| | | E | e23 | 37 30 | | |
| | | | e24 | 42 30 | | |
| | | | e25 | 48 10 | | |
| | Cherra | | e26 | 17 17 30 | 2310 | Moderate. Rarefaction. |
| | | | e27 | 27 30 | | |
| | | | e28 | 37 30 | | |
| | | | e29 | 47 30 | | |
| | | | e30 | 57 30 | | |
| | Colombo | E | e | 17 27 34 | | |
| | | | JKS | 37 47 | | |
| | | | L | 18 03 19 | | |

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

November, 1960.

| | | | | | | | | |
|----------------|------------|----|----------|----------|-------|---|----------|--|
| 02 (Contd.) | Madras | E | eP | 17 27 37 | 9470 | Moderate. Initial ground movement towards East. | | |
| | | | PP | 30 56 | | | | |
| | | | PPP | 32 53 | | | | |
| | | | iS | 38 07 | | | | |
| | | | e | 39 43 | | | | |
| | | | e | 43 55 | | | | |
| | | LR | 50 57 | | | | | |
| | Hyderabad | E | e | 17 27 47 | 9740 | Moderate. | | |
| | | | PPP | 33 17 | | | | |
| | | | iS | 38 20 | | | | |
| | | | PPS | 39 50 | | | | |
| | | | SS | 43 47 | | | | |
| | | | SSS | 47 20 | | | | |
| | | | | LR | 54 28 | | | |
| | | | | N | LR | 54 35 | | |
| | | | | | M | 18 02 14 | | Period = 18 secs. Gr. dis. = 7 μ . |
| | | | | E | M | 03 38 | | Period = 24 secs. Gr. dis. = 15 μ . |
| | Kodaikanal | E | eP | 17 27 53 | 10020 | Slight, initial ground movement towards East. | | |
| | | | iSKS | 38 11 | | | | |
| | | | e | 39 11 | | | | |
| | | | e | 39 33 | | | | |
| | | | e | 43 48 | | | | |
| | | | e | 47 12 | | | | |
| | | | LQ | 50 34 | | | | |
| | | | LR | 54 34 | | | | |
| | | M | 18 01 37 | | | | | |
| | Dehra Dun | NE | eP | 17 28 05 | 10510 | Moderate | | |
| | | | N | e | | | 33 25 | |
| | | | iSKS | 38 37 | | | | |
| | | | e | 44 37 | | | | |
| | | | e | 48 09 | | | | |
| | | | e | 51 22 | | | | |
| | | | e | 55 53 | | | | |
| | | | e | 18 03 02 | | | | |
| | Poona | Z | iP | 17 28 10 | 10530 | Slight. | | |
| | | | E | iS | | | 39 22 | |
| | | | N | e | | | 46 39 | |
| | | | | e | | | 56 33 | |
| | | | | M | | | 18 09 13 | |
| | Bombay | NE | eP | 17 28 19 | 10590 | Slight. | | |
| | | | E | PP | | | 31 53 | |
| | | N | SKS | 38 51 | | | | |
| | | | eS | 39 33 | | | | |
| | | E | M | 18 14 06 | | | | Period = 15 secs. Gr. dis. = 2 μ . |
| | | | N | M | | | 30 04 | |

| DATE | STATION | COMP. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|-----------|----------|-----------|----------------------|-----------------|------------------------------------|
| <u>November, 1960.</u> | | | | | | |
| 02 | Shillong | Z | iP | 17 28 21 | | Slight, near. |
| 02 | Tocklai | E | iP | 17 30 18 | | Slight, near. |
| | Chatra | Z ZN | iP e | 17 30 18 31 34 | | Feeble, Rarefaction. |
| 02 | Shillong | Z | iP | 18 21 09 | | Slight, distant Rarefaction. |
| | Chatra | Z | iP | 18 21 12 | | Slight, distant Rarefaction. |
| 02 | Shillong | Z | e | 18 35 12 | | Tremor, near. |
| 02 | Dehra Dun | NE | e i | 19 47 17 49 10 | | Slight. |
| | Chatra | Z NEZ | e e | 19 49 55 52 04 | | Feeble, phases not clear. |
| | Poona | Z | eP | 19 49 28 | | Feeble, other phases not clear. |
| | Shillong | Z | eP | 19 49 36 | | Slight, distant. |
| 02 | Shillong | Z | e | 20 18 14 | | Tremor, near. |
| 02 | Chatra | Z | iPg Sg | 20 25 31 25 43 | 100 | Mild. |
| 02 | Shillong | Z | iP iS | 21 31 09 31 33 | 200 | Slight, Rarefaction. |
| 03 | Shillong | Z | eP | 02 41 23 | | Slight, near. |
| 03 | Dehra Dun | NE | e | 09 37 11 | | Tremor. |
| 03 | Shillong | Z | iP iS | 11 00 48 01 00 | 90 | Slight, Rarefaction. |
| 03 | Shillong | Z | e | 15 51 13 | | |
| 04 | Shillong | Z | e | 08 01 18 | | Slight, distant. |
| 04 | Shillong | Z | e | 10 49 30 | | Slight, distant. |
| 04 | Shillong | Z | e | 11 04 08 | | Slight, near. |
| 04 | Shillong | Z | eP | 14 26 11 | | Slight, distant. |
| | Chatra | Z | e | 14 26 42 | | Feeble, distant. |
| 04 | Shillong | Z | e | 16 19 06 | | Slight, near. |
| 04 | Shillong | Z | e | 16 55 44 | | Slight, distant. |
| 04 | Shillong | Z | e | 18 36 26 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. | Δ | REMARKS |
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| | | | | h. m. s. | km. | |
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| 04 | Shillong | Z | e | 19 39 17 | | Slight, near. |
| 04 | Shillong | Z | iP | 22 50 20 | | Slight, near. |
| 05 | Shillong | Z | iP | 00 58 25 | | Slight, distant. Rarefaction. |
| 05 | Shillong | Z | e | 05 33 42 | | Slight, distant. |
| 05 | Shillong | Z | e | 06 09 01 | | Slight, distant. |
| 05 | Shillong | Z | i | 06 10 29 | | Slight, distant. |
| 05 | Chatra | Z | iP S | 07 32 52 33 11 | 150 | Feeble, Rarefaction. |
| | Shillong | Z | e i i | 07 33 11 33 19 33 54 | | Slight, near. |
| 05 | Shillong | Z | e | 08 58 15 | | Slight, distant. |
| 05 | Chatra | Z | e | 09 00 33 | | Feeble, distant. |
| 05 | Dehra Dun | NE | e | 13 44 31 | | Tremor. |
| | Chatra | Z | i | 13 44 37 | | Feeble, distant. Compression. |
| 05 | Shillong | Z | e | 17 34 28 | | Slight, distant. |
| 05 | Bombay | NE | eP e | 20 29 40 39 34 | | Slight. |
| | Chatra | Z | e | 20 30 28 | | Feeble. |
| | Shillong | Z | iP | 20 30 57 | | Slight, distant. Compression. |
| | Hyderabad | N | M | 20 52 55 | | Period = 15 secs. Gr. dis. = 4 μ . |
| | | E | M | 53 01 | | Period = 21 secs. Gr. dis. = 8 μ . |
| 05 | Chatra | Z | e | 21 32 27 | | Feeble, distant. |
| 05 | Bombay | NE | e | 21 35 26 | | Slight. |
| | Hyderabad | E | M | 21 38 47 | | Period = 9 secs. Gr. dis. 3 μ . |
| | | N | M | 38 49 | | Period = 9 secs. Gr. dis. 2 μ . |
| | Calcutta | E | e e | 21 38 54 22 41 24 | | Moderate. |

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| | | | | | | |
|----|--|-----|------|----------|------|--|
| 05 | Shillong | Z | iP | 21 56 17 | | Slight, distant. Compression. |
| | Chatra | Z | eP | 21 57 03 | 960 | Feeble |
| | | | PP | 57 04 | | |
| | | | PPP | 57 16 | | |
| | | | LQ | 58 34 | | |
| | | ZEN | S | 58 43 | | |
| | | Z | SS | 58 56 | | |
| | | | LR | 59 02 | | |
| | | | SSS | 59 08 | | |
| | | | Sg,M | 59 44 | | |
| | Calcutta | N | e? | 21 57 19 | | Slight. |
| | Tocklai | E | i | 21 57 41 | | Slight, near. |
| 05 | Shillong | Z | eP | 22 33 18 | | Slight, distant. |
| 05 | Shillong | Z | eP | 22 44 12 | | Slight, distant. |
| 05 | Shillong | Z | e | 23 59 45 | | Tremor, distant. |
| 06 | Shillong | Z | eP | 04 43 55 | 150 | Slight. |
| | | | eS | 44 14 | | |
| 06 | Epc:- 53.0° N, 159.8° E, Near East coast of Kamchatka. h = about 32 km. - H = 04h. 38m. 16.7s. (USCGS) Mag:- 5 $\frac{1}{2}$ -5 $\frac{3}{4}$ (Pal), 6-6 $\frac{1}{4}$ (Berk), 6 $\frac{1}{4}$ (Pas). | | | | | |
| | Shillong | ZE | iP | 04 48 00 | 6220 | Initial ground motion towards West and compression. |
| | | E | iS | 55 48 | | |
| | Chatra | Z | iP | 04 48 29 | | Distant. Compression. Other phases not clear. |
| | Dehra Dun | NE | eP | 04 48 35 | 6780 | |
| | | N | e | 51 01 | | |
| | | | e | 52 37 | | |
| | | | PS | 57 10 | | |
| | | | e | 05 01 18 | | |
| | | | e | 04 18 | | |
| | | | e | 05 13 | | |
| | | | e | 08 09 | | |
| | | | e | 13 29 | | |
| | Bokaro | NE | iP | 04 48 37 | 6860 | Initial ground motion towards south and west other phases unidenti- fiable. |
| | | | iS | 56 59 | | |
| | Calcutta | E | e | 04 48 39 | | |
| | | | e | 54 57 | | |
| | | | e | 05 04 11 | | |
| | | | e | 11 27 | | |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|---|--------|-------|----------------------|-----------------|--|
| <u>November, 1960.</u> | | | | | | |
| 06 (Contd.) | Port Blair | E | e | 04 49 13 | | |
| | Poona | Z | iP | 04 49 47 | | Other phases not clear. |
| | Bombay | NE | eP | 04 49 49 | 8070 | |
| | | | eS | 59 14 | | |
| | | E | PS | 59 34 | | |
| | | NE | PPS | 05 00 11 | | |
| | | N | M | 25 02 | | Period = 13 secs. Gr. dis. = 5 μ . |
| | | E | M | 25 32 | | Period = 15 secs. Gr. dis. 4 μ . |
| | Kodaikanal | E | e | 04 59 48 | | Tremor. |
| | | | e | 06 39 50 | | |
| | Hyderabad | N | M | 05 16 07 | | Period = 18 secs. Gr. dis. = 12 μ . |
| 06 | Tocklai | E | eP | 06 16 58 | 200 | Slight. |
| | | | iSg | 17 21 | | |
| | Shillong | Z | eP | 06 17 06 | | Slight, near. |
| 06 | Bombay | NE | e | 06 40 32 | | Slight. |
| | | | e | 44 32 | | |
| | | N | M | 07 28 00 | | Period = 17 secs. Gr. dis. = 3 μ . |
| 06 | Shillong | Z | eP | 06 45 54 | | Slight, distant. |
| 06 | Port Blair | E | e | 07 10 13 | | Slight. |
| 06 | Hyderabad | N | M | 07 16 25 | | Period = 18 secs. Gr. dis. = 7 μ . |
| 06 | Calcutta | E | e? | 07 30 25 | | Slight. |
| | | | i | 39 47 | | |
| 06 | Shillong | Z | eP | 08 46 35 | | Slight, near. |
| | Chatra | Z | iP | 08 46 37 | 240 | Feeble. |
| | | ZEN | eS | 47 05 | | |
| 06 | Shillong | Z | iP | 15 34 50 | | Slight, distant. Rarefaction. |
| | Chatra | ZE | iP | 15 35 44 | 850 | Feeble. |
| | | | iS | 37 13 | | |
| 06 | Shillong | Z | eP | 20 01 15 | | Slight, near. |
| | Chatra | Z | eP | 20 01 49 | 350 | Feeble. |
| | | | eS | 02 29 | | |
| 06 | Epc:- 52.7°N, 168.0°W. Fox Islands Aleutian Islands, h = 42 km. - H = 22h. 10m. 06.4s. (USCGS). Mag: 5-5 $\frac{1}{4}$ (Berk), 5 $\frac{1}{2}$ (Pal). | | | | | |

DATE STATION COMPT. PHASE G. M. T. Δ REMARKS
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| | | | | | | |
|----------------|------------|--------------|--------------------|--|------|--|
| 06 (Contd.) | Tocklai | E | e | 22 21 42 | | Distant. |
| | Shillong | Z | iP | 22 21 51 | | Distant. Compression. |
| | Chatra | ZE | iP | 22 22 03 | | Distant, compression. Other phases not clear. |
| | Dehra Dun | NE | eP iS | 22 22 12 32 13 | 8820 | Phases not clear. |
| | Hyderabad | N N | e M | 22 23 00 23 00 42 | | Period - 18 secs. Gr. dis. - 8 μ . |
| | Poona | Z N | iP e | 22 23 11 23 41 | | |
| | Bombay | NE E N | eP eS M M | 22 23 14 33 55 23 08 22 08 46 | 9730 | Period = 18 secs. Gr. dis. = 2 μ . Period - 18 secs. Gr. dis. 3 μ . |
| | Bokaro | NE | e | 22 32 22 | | Teleseisms. |
| | Kodaikanal | E | e | 23 04 04 | | |
| | Calcutta | E | e e e | 23 32 47 44 19 58 12 | | Slight. |
| 07 | Chatra | ZE | eP eS | 12 48 53 50 45 | 490 | Feeble, near. |
| 07 | Calcutta | E | e | 13 13 15 | | Slight. |
| 07 | Chatra | Z | e | 13 29 37 | | Feeble, distant. |
| 07 | Dehra Dun | NE | e i | 18 56 26 57 57 | | Feeble. |
| | Chatra | Z | iP | 18 58 09 | | Feeble, distant compression other phases not clear. |
| 08 | Chatra | Z | eP | 00 25 11 | | Feeble, distant. |
| 08 | Chatra | N | eP eS | 02 52 45 53 05 | 170 | Slight, near. |
| 08 | Calcutta | N | e | 03 14 47 | | Slight. |
| 08 | Shillong | Z | e e | 09 48 14 48 56 | | Slight, beginning not clear. |
| 08 | Shillong | Z | iPg | 10 14 34 | | Feeble, near. |
| 08 | Shillong | Z | iP | 12 41 56 | | Slight, distant. Rarefaction. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | △ km. | REMARKS |
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| <u>November, 1960.</u> | | | | | | |
| 08 | Tocklai | E | eP | 14 21 50 | | Slight, near. |
| | Shillong | Z | iP | 14 22 09 | 490 | Slight, Rarefaction. |
| | | | PP | 22 16 | | |
| | | | PPP | 22 21 | | |
| | | | iS | 23 01 | | |
| | | | Sg | 23 19 | | |
| 08 | Shillong | Z | iP | 19 09 54 | | Slight, distant. Compression. |
| | Dehra Dun | NE | e | 19 10 59 | | Tremor. |
| 08 | Shillong | Z | iP | 20 00 30 | | Slight, distant. Rarefaction. |
| 08 | Shillong | Z | e | 21 05 29 | | Feeble. |
| 09 | Dehra Dun | NE | e | 03 36 54 | | Slight, phases not clear. |
| | | | i | 43 51 | | |
| | Bombay | E | e | 03 37 05 | | Slight, distant. |
| | | | e | 46 29 | | |
| | | | e | 52 35 | | |
| | Poona | Z | ePKP | 03 37 06 | | |
| | | N | e | 46 06 | | |
| | | | e | 47 18 | | |
| | | | e | 56 40 | | |
| | Calcutta | E | e | 03 37 41 | | |
| | | | e | 54 36 | | |
| | | | e | 04 14 13 | | |
| | Kodaikanal | E | e | 03 42 36 | | Tremor. |
| | Port Blair | E | e | 03 44 32 | | Slight. |
| | Hyderabad | E | M | 04 06 15 | | Period - 18 secs. Gr. dis. = 7 μ . |
| 09 | Shillong | Z | e | 10 21 55 | | Tremor. |
| 09 | Epc:- 32.7°N, 103.4°E, Szechwan Province, China. Mag: 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ (Pal). 33 $\frac{1}{2}$ °N, 105°E, - H - 10h. 43m. 25s. (Shillong). h - 47 km. - H - 10h. 43m. 43.1s. (USCGS). | | | | | |
| | Tocklai | E | eP | 10 46 12 | 1050 | |
| | | | i | 47 28 | | |
| | | | iS | 48 00 | | |
| | Shillong | ZNE | iP | 10 46 38 | 1390 | Initial ground motion towards North, East and Rarefaction. |
| | | ZN | PP | 46 50 | | |
| | | | PPP | 46 57 | | |

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

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| | | | | | | |
|----|----------------------|--------------------------|--|---|------|--|
| 09 | Shillong (Contd.) | TH M | 49 333 M | 10 48 59 48 28 50 25 | | Period = 2 secs. Gr. dis. = 240 μ |
| | Chatra | NA N | 4P PP PPT SS SS SSS e LR M | 10 47 22 47 25 47 40 50 09 50 18 50 41 50 56 51 07 10 58 59 | 1640 | Period = 6 secs. Gr. dis. 25 μ. Period = 7 secs. Gr. dis. = 27 μ. |
| | Calcutta | | IP e IS e c M | 10 47 40 48 47 50 42 50 10 52 40 54 02 | 1820 | Initial ground movement towards West. |
| | Bokaro | TH TH TH W M | IP e IS SS LR M M | 10 47 54 48 16 51 21 51 42 53 45 54 27 54 27 | 2090 | Initial ground motion towards North and East. |
| | Dehra Dun | TH M | e PP IS SS SSS e M | 10 48 35 49 09 52 45 53 12 53 42 54 04 56 04 | 2450 | Period = 10 secs. |
| | Port Blair | W | IP P PPT M | 10 48 42 53 07 53 59 55 10 | 2550 | |
| | Vizianagaram | | | 10 48 58 53 12 | | Distant. |
| | Hyderabad | | IP P PPT e SSS e LR | 10 49 24 50 08 50 21 54 13 55 12 55 57 56 54 | 2960 | |

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| | | | | | | |
|----------------|---|----|------|----------|------|---|
| 09 (Contd.) | Hyderabad | E | LR | 10 57 04 | | Period - 11 secs. Gr. dis. - 31 μ . Period - 9 secs. Gr. dis. - 18 μ |
| | | N | M | 58 15 | | |
| | | E | M | 58 18 | | |
| | Madras | E | iP | 10 49 48 | 3330 | Initial ground motion towards West. |
| | | | PP | 50 51 | | |
| | | | eS | 54 46 | | |
| | | | SS | 56 42 | | |
| | | | SSS | 57 02 | | |
| | | | LR | 58 06 | | |
| | | | M | 11 00 35 | | |
| | Poona | Z | iP | 10 49 54 | 3330 | |
| | | N | iS | 54 52 | | |
| | | | LQ | 56 22 | | |
| | | | SS | 56 29 | | |
| | | | LR | 57 41 | | |
| | | E | M | 59 53 | | |
| | Bombay | NE | eP | 10 50 00 | 3400 | |
| | | | eS | 55 02 | | |
| | | E | e | 55 15 | | |
| | | N | e | 56 28 | | |
| | | E | M | 11 00 29 | | Period - 7 secs. Gr. dis. - 15 μ . |
| | | N | M | 00 31 | | Period - 7 secs. Gr. dis. - 42 μ . |
| | Kodaikanal | E | e | 10 55 04 | | |
| | | | e | 58 25 | | |
| | | | e | 59 34 | | |
| | | | M | 11 00 59 | | Period = 10 secs. Gr. dis. - 8 μ . |
| 09 | Shillong | Z | eP | 12 30 09 | | Slight, distant. |
| 09 | Shillong | Z | e | 14 29 03 | | |
| 09 | Epic:- 23.2°S, 70.6°W, Near Coast of Chile. h - about 52 km. - H = 20h. 06m. 16.2s. (USCGS). Mag : 5 $\frac{1}{2}$ -5 $\frac{3}{4}$ (Pal). | | | | | |
| | Poona | E | iPKP | 20 25 59 | | Other phases not clear. |
| | Shillong | Z | ePKP | 20 26 20 | | Distant. |
| | Dehra Dun | NE | e | 20 26 21 | | Phases not clear. |
| | | | i | 39 56 | | |
| | Calcutta | E | e | 20 26 33 | | |
| | | | e | 21 31 15 | | |
| | Port Blair | E | e | 20 41 13 | | |

DATE LOCATION TIME PLACE A. M. S. Δ DISTANCE
 h. m. s. km.

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| | | | | | | | |
|-----------|--|----|-------|----------|------|------------------------|-------|
| 08 | Dehradun | E | M | 01 26 07 | | Peri | secs. |
| (Cont'd.) | | | M | 01 26 27 | | Gr. | µs. |
| | | | | | | Per | secs. |
| | | | | | | Gr. | µs. |
| 09 | Shillong | Z | IP | 00 27 27 | | Slight, | near. |
| 09 | Shillong | Z | IP | 23 57 00 | | Slight, | near. |
| 0 | Shillong | Z | IP | 01 30 23 | | Slight, | near. |
| 10 | Epic:- 36.6°N, 74.1°E. Minnikush Region h - about 64 km. - H = 01h. 54m. 46.8s. (USCARs). | | | | | | |
| | Dehra Dun | | eP | 01 56 57 | 390 | Slight. | |
| | | | POP | 57 04 | | | |
| | | | e | 57 11 | | | |
| | | | e | 58 15 | | | |
| | | | SS | 58 27 | | | |
| | | | SS | 57 30 | | | |
| | | | e | 58 50 | | | |
| | | | Sz, M | 57 18 | | | |
| | Chatra | | IP | 01 57 24 | 1070 | Slight, distant | |
| | | | e | 01 57 24 | | phases not clear. | |
| | Bombay | NE | eP | 01 58 51 | 1080 | Slight. | |
| | | | eS | 02 01 10 | | | |
| | Poona | Z | IP | 01 58 57 | 1080 | Slight, other phases | |
| | | | SS | 02 02 22 | | not clear. | |
| | Calcutta | SW | e | 01 59 08 | | Slight. | |
| | | | e | 02 03 02 | | | |
| | Shillong | SE | IP | 01 59 22 | 0260 | Slight, initial ground | |
| | | E | i | 02 00 14 | | movement towards West | |
| | | NE | is | 03 13 | | and Rarefaction. | |
| | | | i | 03 25 | | | |
| | | | i | 04 15 | | | |
| 10 | Dehra Dun | NE | e | 02 01 10 | | Tremor. | |
| 10 | Shillong | | | | | | |
| 10 | Chatra | | | | | | |
| 10 | Shillong | Z | | | | | |
| 10 | Tocklai | E | eP | 14 21 09 | | Slight, near. | |
| | Shillong | Z | eP | 14 21 24 | | Slight, near. | |
| 10 | Epic:- 2.6°S, 139.4°E. Near Coast of New Guinea. h - about 20 km. - H = 14h. 40m. 47.0s. (Pac) Mag:- 6.2 (Pac). | | | | | | |

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

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| DATE | STATION | COMPT. | PHASE | C. | M. | T. | Δ | REMARKS |
|----------------|------------|-----------|-------|----|----|----------------------|----------|-------------------------|
| | | | | h. | m. | s. | km. | |
| 10 (Contd.) | Port Blair | N | eP | 14 | 53 | 24 | 5300 | |
| | | | eS | 15 | 00 | 20 | | |
| | | | LQ | | 03 | 51 | | |
| | | | M | | 12 | 03 | | |
| | Tocklai | E | iP | 14 | 54 | 04 | | Slight, distant. |
| | Shillong | ZEN EN | iP | 14 | 54 | 12 | 5860 | Initial ground motion |
| | | | eS | | 01 | 39 | | towards North-West and |
| | | | i | | 02 | 26 | | compression. |
| | | | i | | 02 | 56 | | |
| | Calcutta | EN | iP | 14 | 54 | 24 | 6150 | Initial ground motion |
| | | | PcP | | 54 | 56 | | towards west and |
| | | | PP | | 56 | 33 | | compression. |
| | | | eS | 15 | 02 | 08 | | |
| | | | e | | 06 | 18 | | |
| | | | e | | 08 | 56 | | |
| | | | LQ | | 09 | 16 | | |
| | | | LR | | 12 | 16 | | |
| | Chatra | ZNE NE | iP | 14 | 54 | 45 | 6330 | Initial ground motion |
| | | | PP | | 57 | 08 | | towards North, West |
| | | | e | | 58 | 43 | | and compression. |
| | | | iS | 15 | 02 | 39 | | |
| | | | e | | 03 | 26 | | |
| | | | e | | 03 | 48 | | |
| | | | e | | 04 | 09 | | |
| | | | ScS | | 04 | 26 | | |
| | | | e | | 07 | 43 | | |
| | | | e | | 10 | 41 | | |
| | | | LQ | | 11 | 44 | | |
| | | | LR | | 14 | 49 | | |
| | | | M | 15 | 12 | 20 | | |
| | Bokaro | NE | iP | 14 | 54 | 46 | 6330 | Other phases uniden- |
| | | | iS | 15 | 02 | 40 | | tifiable. Initial |
| | | | i | | 03 | 10 | | ground motion towards |
| | Madras | E | iP | 14 | 55 | 01 | 6710 | Initial ground movement |
| | | | e | | 57 | 36 | | towards West. |
| | | | e | | 59 | 23 | | |
| | | | PPS | 15 | 04 | 02 | | |
| | | | e | | 04 | 39 | | |
| | | | e | | 11 | 36 | | |
| | Kodaikanal | E | iP | 14 | 55 | 19 | 7010 | Initial ground motion |
| | | | PS | 15 | 04 | 07 | | towards West. |
| | | | e | | 08 | 37 | | |
| | | | IR | | 15 | 58 | | |
| | | | M | | 21 | 40 | | |
| | | | | | | Period - 20 secs. | | |
| | | | | | | Gr. dis. - 8 μ . | | |

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

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| | | | | | | |
|----------------|-----------|----|------|----------|------|---|
| 10 (Contd.) | Dehra Dun | NE | eP | 14 55 44 | 7390 | |
| | | N | PP | 58 09 | | |
| | | | iS | 15 04 34 | | |
| | | | SS | 08 58 | | |
| | | | SSS | 12 17 | | |
| | | | LQ | 13 15 | | |
| | | | LR | 16 09 | | |
| | | | M | 21 43 | | |
| | Poona | Z | iP | 14 55 45 | 7460 | |
| | | N | PPS | 15 05 22 | | |
| | | | SKS1 | 05 40 | | |
| | | | e | 06 23 | | |
| | | | e | 10 18 | | |
| | Bombay | NE | eP | 14 55 51 | 7570 | |
| | | E | e | 15 04 40 | | |
| | | N | e | 04 50 | | |
| | | NE | PPS | 05 34 | | |
| | | | e | 06 33 | | |
| | Hyderabad | N | ppp | 58 52 | 6970 | |
| | | | iS | 03 43 | | |
| | | | PPS | 04 22 | | |
| | | | SS | 07 37 | | |
| | | | LQ | 15 12 01 | | |
| | | | LR | 15 37 | | |
| | | E | LR | 16 28 | | |
| | | | M | 20 28 | | |
| | | | M | 22 30 | | |
| | | | | | | Period - 27 secs. Gr. dis. - 12 μ . Period - 12 secs. Gr. dis. - 3 μ . |
| 10 | Shillong | Z | e | 15 24 08 | | Slight, distant. |
| 10 | Shillong | Z | i | 15 44 12 | | Slight, near. |
| 10 | Shillong | Z | e | 16 43 13 | | Slight, distant. |
| 10 | Shillong | Z | eP | 17 24 13 | 180 | Slight. |
| | | | iS | 24 35 | | |
| 10 | Shillong | Z | eP | 17 34 47 | | Slight, near. |
| 10 | Shillong | Z | e | 18 42 38 | | Slight, distant. |
| 10 | Shillong | Z | e | 18 54 49 | | Tremor, distant. |
| 10 | Shillong | Z | e | 20 13 02 | | Slight, distant. |
| 10 | Shillong | Z | eP | 20 51 00 | | Slight, distant. |
| 10 | Shillong | Z | eP | 21 46 56 | | Slight, near. |
| | Chatra | ZE | iP | 21 47 31 | 120 | Slight. |
| | | | S | 47 45 | | |

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| 10 | Shillong | Z | iP | 21 48 14 | | Slight, distant. |
| 10 | Shillong | Z | e | 22 35 55 | | Near, tremor. |
| 10 | Shillong | Z | e | 22 52 49 | | Tremor. |
| 10 | Shillong | Z | e | 23 06 31 | | Slight, distant. |
| 10 | Shillong | Z | iP | 23 18 01 | | Slight, distant. Rarefaction. |
| 11 | Shillong | Z | eP | 03 00 02 | | Slight, distant. |
| 11 | Shillong | Z | eP | 11 45 37 | | Slight, near. |
| 11 | Shillong | Z | i | 12 29 27 | | Slight, near. |
| 11 | Shillong | Z | iP | 18 46 37 | | Slight, distant. |
| 11 | Shillong | Z | eP | 19 40 08 | | Slight, distant. |
| | Chatra | Z | i | 19 40 35 | | Feeble, distant. |
| 11 | Shillong | Z | e | 20 12 39 | | Slight, distant. |
| 11 | Shillong | Z | eP | 22 26 41 | | Slight, distant. |
| | Chatra | Z | i | 22 27 07 | | Feeble, distant. |
| | Hyderabad | EN | e | 22 30 21 | | |
| 12 | Shillong | Z | eP | 00 15 15 | | Slight, near. |
| 12 | Shillong | Z | eP | 07 11 43 | | Slight, near. |
| 12 | Shillong | Z | e | 08 16 21 | | Tremor, distant. |
| 12 | Shillong | Z | eP | 08 43 28 | | Slight, near. |
| 12 | Shillong | Z | e | 11 04 39 | | Tremor, distant. |
| 12 | Shillong | Z | eP iS | 13 26 36 27 05 | 250 | Slight. |
| 12 | Shillong | Z | eP | 14 15 29 | | Slight, distant. |
| 12 | Dehra Dun | NE | e | 17 50 15 | | Tremor. |
| 12 | Shillong | Z | iP | 18 45 53 | | Slight, distant. Rarefaction. |
| | Chatra | Z | i | 18 46 13 | | Feeble, distant. Rarefaction. |
| 12 | Shillong | Z | eP | 18 50 09 | | Slight, distant. |
| 12 | Shillong | Z | eP | 21 48 00 | | Slight, near. |

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| | | | | | | |
|----|--|-----|-----|----------|------|-------------------|
| 12 | Shillong | Z | eP | 22 57 10 | | Slight, near. |
| 13 | Shillong | Z | eP | 00 15 57 | | Slight, near. |
| 13 | Shillong | Z | eP | 01 02 14 | | Slight, distant. |
| 13 | Shillong | Z | eP | 06 06 05 | | Slight, distant. |
| 13 | Epc:- 1.4° N, 127.2° E Molucca Passage h = about 59 km. -H ₀ - 06h. 37m. 05.7s. (USCGS). 01° N, 125° E; - H - 06h. 37m. 14s. (Shillong). | | | | | |
| | Port Blair | N | i | 06 44 05 | | Slight. |
| | | | i | 54 08 | | |
| | Tocklai | E | eP | 06 44 47 | | Slight, distant. |
| | Shillong | ZNE | iP | 06 44 54 | 4510 | Moderate |
| | | E | SP | 45 29 | | |
| | | | PP | 46 32 | | |
| | | | PPP | 46 57 | | |
| | | | i | 50 58 | | |
| | | NE | iS | 51 04 | | |
| | | | i | 51 12 | | |
| | | | SS | 53 44 | | |
| | | | SSS | 54 21 | | |
| | | | LR | 55 51 | | |
| | | | M | 59 15 | | |
| | Chatra | ZNE | iP | 06 45 30 | 4820 | Moderate. |
| | | NE | SP | 46 03 | | |
| | | | PPP | 47 26 | | |
| | | | e | 48 25 | | |
| | | | iS | 52 03 | | |
| | | | SS | 52 43 | | |
| | | | e | 55 44 | | |
| | | | e | 57 05 | | |
| | Madras | E | iP | 06 45 45 | 5190 | Moderate. Initial |
| | | | ScP | 47 05 | | ground movement |
| | | | PP | 47 38 | | towards East. |
| | | | PPP | 48 25 | | |
| | | | ScP | 50 52 | | |
| | | | iS | 52 35 | | |
| | | | ScS | 55 18 | | |
| | | | SS | 56 04 | | |
| | | | LQ | 56 51 | | |
| | | | LR | 59 11 | | |
| | Kodaikanal | E | iP | 06 46 00 | 5370 | Slight, initial |
| | | | iS | 53 00 | | ground movement |
| | | | SS | 56 30 | | towards East. |
| | | | SSS | 57 54 | | |
| | | | LR | 07 00 04 | | |
| | | | M | 04 09 | | |

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13 Hyderabad EN iP 06 46 02 5490 Moderate, initial
 (Contd.) N PcP 47 11 ground motion towards
 EN PP 48 08 South and East.
 N PPP 48 47
 EN iS 53 09
 N SS 56 14
 SSS 57 57
 LR 59 41
 E LR 00 17
 N M 03 38 Period - 18 secs.
 E M 03 44 Gr. dis. = 8 μ .
 Period = 18 secs.
 Gr. dis. = 6 μ .

Dehra Dun NE eP 06 46 36 5850 Moderate.
 N PP 48 26
 PPP 49 38
 iS 54 03
 SS 57 44
 SSS, LQ 59 15
 LR 07 01 41
 M 06 19

Poona Z iP 06 46 33 5930 Moderate
 N iS 54 07
 PPS 54 19
 SS 57 31
 LR 07 01 58

Bombay N P 06 46 45 6030 Slight.
 E PP 48 52
 NE e 50 16
 E iS 54 22
 ScS 56 19
 SSS 07 00 06

Vizianagram N e 06 53 06 Slight, distant.

13 Epc:- 51.1°N, 168.8°W, Fox Islands, Aleutian Islands.
 h = about 65 km. - H = 09h. 20m. 36.8s. (USCGS).
 Mag:- 7 (Pas), 7 $\frac{1}{4}$ (Berk), 6 $\frac{1}{4}$ (Pal).

Tocklai E e 09 32 13 Distant.

Shillong ZNE iP 09 32 20 8440 Initial ground move-
 E PcP 32 33 ment towards North,
 PP 35 11 East and
 PPP 36 59 Rarefaction.
 NE iS 42 03
 E SKS 42 24
 ScS 42 33
 PS 42 41
 PPS 42 58
 SS 46 58
 SSS 50 12
 LQ 52 26 Period = 17 secs.
 Gr. dis. = 112 μ .
 M 10 09 -

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| | | | | h. m. s. | km. | | | |
| 13 (Contd.) | Chatra | ZNE | iP | 09 32 31 | 8530 | Initial ground motion towards North, East and Rarefaction. | | |
| | | NE | PcP | 32 39 | | | | |
| | | | PP | 35 29 | | | | |
| | | | PPP | 37 16 | | | | |
| | | | iS | 42 18 | | | | |
| | | | SKS | 42 33 | | | | |
| | | | PPS | 43 25 | | | | |
| | | | SS | 47 37 | | | | |
| | | | SSS | 50 41 | | | | |
| | | | LQ | 53 25 | | | | |
| | | | LR | 56 48 | | | | |
| | | | N | M | 10 11 12 | | | Period = 11 secs. Gr. dis. = 28 μ . |
| | | | E | M | 11 12 | | | Period = 12 secs. Gr. dis. = 36 μ . |
| | Dehra Dun | NE | eP | 09 32 42 | 8850 | | | |
| | | | PP | 35 44 | | | | |
| | | | PPP | 37 49 | | | | |
| | | | iS | 42 44 | | | | |
| | | | SS | 47 34 | | | | |
| | | | SSS | 51 09 | | | | |
| | | | LQ | 53 35 | | | | |
| | | | LR | 57 08 | | | | |
| | | | M | 10 03 41 | | | | |
| | Calcutta | NE | iP | 09 32 47 | 8850 | | | |
| | | | iS | 42 50 | | | | |
| | | | SS | 48 02 | | | | |
| | | | SSS | 51 07 | | | | |
| | | | LQ | 53 22 | | | | |
| | | | LR | 57 17 | | | | |
| | | | M | 10 03 31 | | | | |
| | | | M _a | 06 07 | | | Period = 15 secs. Gr. dis. = 57 μ . | |
| | Bokaro | NE | iP | 09 32 49 | 8870 | Initial ground motion towards North and East. | | |
| | | N | PP | 34 57 | | | | |
| | | | PPP | 37 45 | | | | |
| | | | iS | 42 52 | | | | |
| | | | PPS | 44 02 | | | | |
| | | | SS | 48 06 | | | | |
| | | | M | 10 01 43 | | | Period = 36 secs. Gr. dis. = 196 μ . | |
| | | | M | 01 43 | | | Period = 37 secs. Gr. dis. = 135 μ . | |
| | Port Blair | E | iP | 09 33 15 | 9380 | | | |
| | | | iS | 43 41 | | | | |
| | | | PS | 44 44 | | | | |
| | | | e | 49 43 | | | | |
| | | | LQ | 55 40 | | | | |
| | | | LR | 59 55 | | | | |
| | | | M | 10 06 40 | | | | |

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|----------------|-----------|----|-----------------------|-----------------------|-------|---|
| 13 (Contd.) | Hyderabad | EN | iP | 09 33 32 | 9820 | Initial ground motion towards North and East. |
| | | E | PP | 37 08 | | |
| | | EN | iS | 44 17 | | |
| | | E | PS | 45 40 | | |
| | | | e | 49 35 | | |
| | | | SSS | 53 38 | | |
| | | N | LR | 10 01 17 | | |
| | | E | LR | 01 29 | | |
| | | N | M | 07 36 | | |
| | | | | Period = 24 secs. | | |
| | | | | Gr. dis. = 56 μ . | | |
| | | | | Period = 21 secs. | | |
| | | | | Gr. dis. = 38 μ . | | |
| Poona | Z NE | | iP | 09 33 41 | 10130 | Initial ground motion towards North. |
| | | | PP | 37 23 | | |
| | | | PPP | 39 27 | | |
| | | | SKS2 | 44 22 | | |
| | | | iS | 44 38 | | |
| | | | PS | 46 02 | | |
| | | | e | 46 44 | | |
| | | | e | 51 15 | | |
| | | | e | 51 31 | | |
| | | | SSS | 54 42 | | |
| Madras | E | | iP | 09 33 43 | 10160 | Initial ground motion towards East. |
| | | | PP | 37 14 | | |
| | | | PPP | 39 26 | | |
| | | | iSKS | 44 18 | | |
| | | | e | 45 32 | | |
| | | | e | 50 28 | | |
| | | | LQ | 58 05 | | |
| | | | M | 10 08 52 | | |
| Bombay | NE | | eP | 09 33 43 | 10230 | |
| | | | PP | 37 22 | | |
| | | | e2 | 41 06 | | |
| | | | SKS1 | 44 18 | | |
| | | | eS | 44 44 | | |
| | | | PS | 45 56 | | |
| | | | eSS | 51 17 | | |
| | | | SSS | 54 31 | | |
| | | | M | 10 10 32 | | |
| | | | | | | |
| | | | Gr. dis. = 74 μ . | | | |
| | | | Period = 23 secs. | | | |
| | | | Gr. dis. = 63 μ . | | | |
| Kodaikanal | E | | iP | 09 34 12 | 10750 | Initial ground motion towards East. |
| | | | iS | 45 27 | | |
| | | | PS | 46 57 | | |
| | | | e | e 52 15 | | |
| | | | e | 56 09 | | |
| | | | LQ | 10 02 00 | | |
| | | | LR | 06 45 | | |
| | | | M | 14 54 | | |
| | | | Period = 20 secs. | | | |
| | | | Gr. dis. = 24 μ . | | | |
| Vizianagram | N | | e | 09 34 18 | | Distant. |
| | | | e | 37 23 | | |
| | | | e | 44 43 | | |

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| 13 | Shillong | Z | e | 09 59 15 | | Distant. |
| 13 | Shillong | Z | e | 10 44 45 | | Tremor. |
| 13 | Shillong | Z | eP | 13 36 13 | | Slight, distant. |
| 13 | Shillong | Z | eP | 13 40 34 | | Slight, near. |
| 13 | Shillong | Z | eP | 14 04 13 | | Slight, distant. |
| 13 | Shillong | Z | eP | 14 28 26 | | Slight, near. |
| 13 | Shillong | Z | e | 14 40 59 | | Slight, distant. |
| 13 | Shillong | Z | eP iS | 17 12 34 12 52 | 140 | Slight. |
| 13 | Shillong | Z | eP | 17 31 04 | | Slight, distant. |
| 13 | Shillong | Z | eP iS | 18 21 23 21 43 | 150 | Slight. |
| 14 | Shillong | Z | eP iS | 00 06 45 07 02 | 130 | Slight. |
| 14 | Shillong | Z | e | 02 20 09 | | Slight, distant. |
| 14 | Shillong | Z | e | 04 30 08 | | Slight, distant |
| 14 | Dehra Dun | NE | e | 07 03 01 | | Tremor. |
| 14 | Dehra Dun | NE | e | 13 51 10 | | Tremor. |
| 14 | Dehra Dun | NE | e | 14 26 30 | | Feeble. |
| 14 | Eps:- 24.3° N, 96.2° E Burma. h. - about 58 km. - H = 15h. 55m. 57.2s. (USCGS). | | | | | |
| | Tocklai | E | eP | 15 56 52 | | Slight, distant. |
| | Shillong | ZE E | iP PP PPP Sg iS S*,SS Sg SSS | 15 56 56 57 03 57 09 57 12 57 43 57 54 58 02 58 06 | 420 | Slight, initial ground motion towards west and compression. |
| | Chatra | ZNE NE | iP PP PPP S SS LR SSS Sg(M) | 15 57 59 58 05 58 12 59 31 59 44 59 47 59 53 16 00 24 | 890 | Feeble. |

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|----------------|--|---------|--|--|------|---|
| 14 (Contd.) | Bokaro | E | e i | 15 58 21 59 55 | | Slight. |
| | Calcutta | EN | e e e | 15 59 04 59 49 16 01 34 | | Slight. |
| | Dehra Dun | NE | e i | 15 59 55 16 02 52 | | Feeble |
| | Poona | Z | iP | 16 00 44 | | Feeble, other phases not clear. |
| | Bombay | E NE | eP eS | 16 00 51 04 57 | 2540 | Very slight. |
| 14 | Shillong | Z | e | 19 17 56 | | Tremor. |
| 14 | Shillong | Z | eP | 20 18 52 | | Slight, distant. |
| | Poona | Z | iP | 20 19 01 | | Tremor. |
| 14 | Shillong | Z | e | 20 22 35 | | Slight, distant. |
| 14 | Dehra Dun | NE | e | 20 50 41 | | Feeble. |
| | Shillong | Z | e | 20 51 16 | | Slight, distant. |
| 14 | Shillong | Z | eP iS | 21 04 40 04 52 | 90 | Slight. |
| 14 | Shillong | Z | iP | 23 21 42 | | Slight, distant. Compression. |
| 15 | Shillong | Z | iPg iSg | 06 20 07 20 18 | 90 | Slight, Rarefaction. |
| | Chatra | Z | eP | 06 20 58 | | Mild, and near. |
| 15 | Dehra Dun | NE | e | 06 46 12 | | Feeble. |
| 15 | Hyderabad | N | M | 07 20 22 | | Period - 24 secs. Gr. dis. = 11 μ . |
| 15 | Epc:- 23.2° N, 94.3° E, Near Burma-India Border. h - about 103 km. - H - 09h. 05m. 59.1s. (USCGS). - H - 09h. 06m. 01s. (Shillong) Mag:- 5 $\frac{1}{2}$ (Shillong). | | | | | |
| | Shillong | ZNE | iP P* PP PPP i iS Sg | 09 06 44 06 48 06 51 06 59 07 08 07 15 07 19 | 280 | Initial ground motion towards East and Rarefaction. |

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|----------|--------------|---------|---|---|------|---|
| 15 | Tocklai | E | eP | 09 06 59 | | Slight, near. |
| (contd.) | Calcutta | EH | eP eS | 09 07 17 09 22 | 610 | Slight. |
| | Chabra | Z N | iP S | 09 07 42 08 58 | 720 | Slight, compression. |
| | Bokaro | NE E | iP PPP LQ IS LR SS SSS M | 09 07 47 07 58 09 00 09 07 09 13 09 23 09 36 09 53 | 770 | Slight, initial ground motion towards West. |
| | Port Blair | N | eP eS | 09 09 46 10 54 | 1250 | Slight. |
| | Delha Dun | NE N | eP PP PPP IS SS SSS Sg,M | 09 09 42 09 54 10 02 12 24 12 40 12 51 14 09 | 1610 | Slight. |
| | Madras | E | e | 09 09 58 | | Slight. |
| | Vizianagaram | N | i | 09 10 24 | | Slight, distant. |
| | Bonga | Z | eP IS LQ SS | 09 10 25 13 42 14 15 14 30 | 2060 | Slight. |
| | Bhubuy | E | eP e e e | 09 10 37 10 50 14 26 14 50 | | |
| | Hyderabad | N | M | 09 15 46 | | Period - 6 secs. Gr. dis. = 3 μ . |
| 15 | Shillong | Z | iP | 15 51 05 | | Slight, distant, compression. |
| | Chatra | Z | eP | 15 52 07 | | Feeble. |
| 15 | Shillong | Z | iP | 16 41 04 | | Slight, distant. Rarefaction. |
| 15 | Shillong | E | eP IS | 17 27 55 28 10 | 110 | Feeble. |
| 15 | Tocklai | E | eP | 20 15 17 | | Slight, near. |

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|----|---|----|-----|----------|------|---------------------------|
| 15 | Shillong | Z | iPg | 20 52 13 | 130 | Slight, Rarefaction. |
| | | | P* | 52 15 | | |
| | | | pp | 53 20 | | |
| | | | PPP | 53 27 | | |
| | | EZ | Sg | 53 28 | | |
| | Chatra | Z | eP | 20 54 11 | | Feeble, phases not clear. |
| 16 | Shillong | Z | e | 02 12 56 | | Slight, distant. |
| 16 | Shillong | Z | e | 13 11 04 | | Slight, distant. |
| 16 | Shillong | Z | eP | 15 29 37 | | Slight, near. |
| 16 | Shillong | Z | eP | 15 42 09 | | Slight, near. |
| 16 | Shillong | Z | e | 15 57 55 | | Slight, distant. |
| 16 | Shillong | Z | e | 17 18 33 | | Slight, distant. |
| 16 | Shillong | Z | e | 17 32 55 | | Tremor, distant. |
| 16 | Epc:- 38.0°N, 89.5°E, Sinkiang Province, China. | | | | | |
| | h - about 24 km. | | | | | |
| | - H - 22h. 59m. 47.6s. (USCGS). | | | | | |
| | Chatra | Z | iP | 23 02 45 | | Feeble distant |
| | | NE | e | 04 52 | | compression |
| | | | e | 06 25 | | phases not clear. |
| | Dehra Dun | NE | e | 23 02 59 | | Slight. |
| | | | i | 05 20 | | |
| | | | i | 06 41 | | |
| | Shillong | Z | eP | 23 03 06 | 2350 | |
| | | | eS | 06 57 | | |
| | Bokaro | NE | i | 23 03 21 | | Slight, unidenti- |
| | | N | e | 06 07 | | fiable, phases. |
| | | | e | 08 27 | | |
| | Calcutta | E | eP | 23 03 48 | 1750 | Slight. |
| | | | iS | 06 44 | | |
| | Hyderabad | E | eP | 23 05 05 | 2510 | Slight. |
| | | | iS | 09 09 | | |
| | | | M | 12 22 | | Period - 10 secs. |
| | | N | M | 12 34 | | Gr. dis. - 3 μ . |
| | Bombay | E | eP | 23 05 12 | 2650 | Slight. |
| | | | eS | 09 26 | | |
| 17 | Shillong | Z | eP | 05 33 46 | | Slight, distant. |

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| 17 | Shillong | Z | eP | 09 04 36 | | Slight, distant. |
| 17 | Shillong | Z | eP | 10 15 10 | | Slight, near. |
| 17 | Shillong | Z | eP | 11 17 58 18 10 | 90 | Slight. |
| 17 | Shillong | Z | eP | 17 37 09 | | Slight, near. |
| 17 | Shillong | Z | iP | 17 37 38 | | Slight, distant. |
| 17 | Shillong | Z | e | 18 58 24 | | Slight, distant. |
| 17 | Shillong | Z | eP | 19 04 26 | | Slight, distant. |
| 17 | Shillong | Z | iP | 19 58 27 | | Slight, distant. Compression. |
| | Chatra | Z | i | 19 58 39 | | Feeble distant compression. |
| 17 | Shillong | Z | iP | 20 04 33 | | Slight, distant. Rarefaction. |
| 17 | Shillong | Z | e | 21 42 13 | | Tremor. |
| 17 | Shillong | Z | eP | 22 45 06 | | Slight, near. |
| | Poona | Z | iP | 23 05 06 | 2710 | Slight. |
| | | E | eS | 09 23 | | |
| | | Z | M | 14 33 | | |
| 18 | Shillong | Z | e | 00 32 15 | | Tremor distant. |
| 18 | Shillong | Z | e | 00 45 42 | | Slight, distant. |
| 18 | Shillong | Z | iP | 01 28 22 | | Slight, distant. Compression. |
| 18 | Shillong | Z | iP iS | 04 11 48 11 58 | 80 | Slight, Rarefaction. |
| 18 | Shillong | Z | iP | 06 13 04 | | Slight, distant. Rarefaction. |
| 18 | Shillong | Z | eP iS | 12 35 57 36 08 | 80 | Slight. |
| 18 | Shillong | Z | iP | 15 31 40 | | Slight, distant. Compression. |
| | Chatra | Z | e | 15 32 11 | | Feeble, distant. |
| 18 | Shillong | Z | eP | 16 26 53 | | Slight, distant. |
| 18 | Vizianagram | NE | eP | 17 31 17 | | Slight, local. |
| | Shillong | Z | iP | 17 47 39 | | Slight, near Compression. |

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|----|-------------|----------------|--|--|------|----------------------------------|
| 18 | Vizianagram | NE | eP | 18 11 09 | | Slight, local. |
| 18 | Vizianagram | NE | eP | 18 58 46 | | Slight, local. |
| 18 | Shillong | Z | eP | 20 05 42 | | Slight, distant. |
| 18 | Shillong | Z | iP | 21 19 43 | | Slight, distant. Rarefaction. |
| 18 | Shillong | ZN | eP eS | 21 32 34 33 03 | 250 | Near feeble. |
| | Shillong | Z | e | 21 33 24 | | Tremor, distant. |
| 19 | Shillong | Z | eP | 00 08 03 | | Slight, near. |
| 19 | Shillong | Z | eP | 04 29 51 | | Slight, distant. |
| 19 | Shillong | Z | e | 06 49 24 | | Tremor, distant. |
| 19 | Shillong | Z | iP | 07 35 56 | | Slight, distant. Rarefaction. |
| 19 | Shillong | Z | iP | 12 25 14 | | Slight, distant. Compression. |
| 19 | Dehra Dun | NE N | eP PP PPP LQ iS LR SS SSS Sg,M | 13 14 46 14 54 15 00 15 48 16 01 16 08 16 13 16 22 16 41 | 720 | Slight. |
| | Poona | Z | eP LQ | 13 15 47 17 48 | 1280 | Slight. |
| | | N | eS | 17 58 | | |
| | | Z | M | 19 23 | | |
| | Bombay | E | e e | 13 15 56 18 54 | | Slight. |
| | Bokaro | E N | eP eS | 13 16 13 19 10 | 1770 | Slight, very feebly recorded. |
| | Chatra | Z ZNE NE | eP PPP S SS SSS | 13 16 30 17 22 19 38 19 55 20 10 | 1800 | Feeble, distant. |
| | Shillong | Z E | iP eS | 13 17 25 21 09 | 2260 | Slight, compression. |

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|------------------------|-------------|--------|-------|-------------------|-----|--|
| | | | | h. m. s. | km. | |
| <u>November, 1960.</u> | | | | | | |
| 19 | Calcutta | E | e? | 13 19 42 | | Slight. |
| (Contd.) | | | e | 20 20 | | |
| | | | i | 20 44 | | |
| | | N | e? | 21 08 | | |
| | | E | i | 22 32 | | |
| | | | e | 22 35 | | |
| | Vizianagram | E | e | 13 20 00 | | Slight. |
| | | | e | 20 40 | | |
| | | | e | 21 03 | | |
| | | | e | 21 50 | | |
| | | | e | 22 02 | | |
| | Hyderabad | E | N | 13 22 06 | | Period - 15 secs. |
| | | N | | 22 15 | | Gr. dis. - 7 μ . |
| | | | | | | Period - 9 secs. |
| | | | | | | Gr. dis. - 5 μ . |
| | Madras | E | e | 13 22 33 | | Phases could not be identified due to Microseismic activity. |
| | Tocklai | E | e | 13 27 08 | | Slight, distant. |
| 19 | Chatra | Z | eP | 19 19 20 | 210 | Feeble, near. |
| | | | eS | 19 45 | | |
| 19 | Shillong | Z | iP | 19 32 06 | | Slight, distant. Rarefaction. |
| 19 | Shillong | Z | iP | 23 07 42 | 210 | Slight, Rarefaction. |
| | | | iS | 08 07 | | |
| 20 | Shillong | Z | i | 00 30 12 | | Slight, distant. |
| 20 | Dehra Dun | NE | e | 03 02 40 | | Tremor. |
| 20 | Shillong | Z | iP | 03 59 21 | | Slight, distant, compression. |
| 20 | Shillong | Z | eP | 05 03 26 | 230 | Slight. |
| | | | iS | 03 53 | | |
| 20 | Shillong | Z | iP | 14 49 36 | | Slight, distant. Rarefaction. |
| 20 | Shillong | Z | e | 15 38 50 | | Tremor. |
| 20 | Shillong | Z | iPg | 15 40 48 | 20 | Slight. |
| | | | iSg | 40 51 | | |
| 20 | Shillong | Z | e | 17 38 28 | | Slight, distant. |
| 20 | Shillong | Z | e | 18 53 37 | | Tremor. |
| 20 | Shillong | Z | iP | 19 12 03 | | Slight, distant Compression. |

| DATE | STATION | COMP. | PHASE | H. M. T. | REMARKS |
|------|---------|-------|-------|--------------|---------|
| | | | | h. m. s. km. | |

November, 1960.

| | | | | | |
|----|------------|---|------|----------|-----------|
| 20 | Port Blair | E | 1WKP | 20 22 22 | Moderate. |
| | | e | e | 27 30 | |
| | | | e | 29 55 | |
| | | | e | 33 05 | |
| | | | M | 21 26 24 | |

| | | | | | |
|----|----------|---|----|----------|---------------|
| 20 | Shillong | Z | eP | 21 22 36 | Slight, near. |
|----|----------|---|----|----------|---------------|

| | | | | | |
|----|----------|---|----|----------|------------------|
| 20 | Shillong | Z | eP | 21 22 58 | Slight, distant. |
|----|----------|---|----|----------|------------------|

Epic: 6.8° N, 80.7° E, Near Coast of Peru
 h = about 93 km. - H = 22h. 01m. 59.0s.
 Mag: 6½ (Berk, Pal), 6½ (Pas)
 2 killed and extensive property damage from seismic
 Seawave at Bimantel, Eten and Santa Rosa (USCGS)

| | | | |
|-------|---|-------|----------|
| Poona | Z | ePKP1 | 22 21 46 |
| | N | e | 26 14 |
| | | e | 28 43 |
| | | e | 36 42 |
| | | e | 37 26 |
| | | e | 39 43 |
| | | e | 43 13 |

| | | | | |
|-----------|----|---|----------|----------------------------|
| Dehra Dun | HE | e | 22 21 48 | Phases not identifiable |
| | | i | 25 15 | |
| | | i | 26 08 | |
| | | i | 29 12 | |
| | | i | 35 41 | |

| | | | | |
|--------|-----|-------|----------|---------------------|
| Chatra | ZNE | ePKP1 | 22 21 48 | 17780 Very distant. |
| | | ePKP2 | 22 33 | |
| | NE | ?? | 26 21 | |
| | | SKKC | 33 02 | |
| | | SS | 46 00 | |
| | | H | 23 47 00 | |

Period = 18 secs.
 Gr. dis. = 44 μ
 Period = 18.5 secs.
 Gr. dis. = 49 μ.

| | | | | |
|--------|----|-------|----------|---------------|
| Bokaro | NE | eP | 22 21 55 | Very distant. |
| | | e(??) | 26 17 | |
| | | M | 23 26 02 | |

Period = 32 secs.
 Gr. dis. = 69 μ

| | | | | |
|----------|----|--------|----------|-------|
| Shillong | NE | ePKP1 | 22 21 56 | 17800 |
| | E | TKP2 | 22 40 | |
| | | ?? | 26 02 | |
| | | ?? | 28 40 | |
| | | ?? | 29 49 | |
| | | PKP(2) | 34 24 | |
| | | SS | 45 17 | |
| | | SKK | 47 13 | |

Period = 20 secs.
 Gr. dis. = 7 μ.

DATE TIME PLACE G. M. T. Δ REMARKS
 H. M. S. Km.

November, 1960.

| DATE | TIME | PLACE | DIR. | STATION | G. M. T. | Δ | REMARKS | | |
|------|----------|-----------------|------|---------|----------|--|--|----------|------------------|
| 20 | 17450 | Mumbai (Contd.) | NE | e | 21 58 | 17450 | Period = 19 secs. Gr. dis. = 53 μ . Period = 19 secs. Gr. dis. = 24 μ . | | |
| | | | | e | 25 51 | | | | |
| | | | | e | 27 11 | | | | |
| | | | | e | 36 06 | | | | |
| | | | | e | 39 13 | | | | |
| | | | | e | 46 07 | | | | |
| | | | | e | 51 13 | | | | |
| | | | | e | 56 40 | | | | |
| | | | | e | 23 34 56 | | | | |
| | | | | e | 54 52 | | | | |
| 20 | 21 58 | Calcutta | E | e | 21 58 | Period = 15 secs. Gr. dis. = 52.1 μ . | | | |
| | | | | e | 23 03 | | | | |
| | | | | e | 26 32 | | | | |
| | | | | e | 34 49 | | | | |
| | | | | e | 38 26 | | | | |
| | | | | e | 44 06 | | | | |
| | | | | e | 47 58 | | | | |
| | | | | e | 49 53 | | | | |
| | | | | e | 56 00 | | | | |
| | | | | e | 23 09 21 | | | | |
| 20 | 22 07 | Hyderabad | E | e | 22 07 | Period = 18 secs. Gr. dis. = 36 μ . Period = 21 secs. Gr. dis. = 44 μ . | | | |
| | | | | e | 26 18 | | | | |
| | | | | e | 32 54 | | | | |
| | | | | e | 40 00 | | | | |
| | | | | e | 54 39 | | | | |
| | | | | e | 23 01 30 | | | | |
| | | | | e | 02 42 | | | | |
| | | | | e | 10 48 | | | | |
| | | | | e | 21 03 | | | | |
| | | | | 20 | 22 29 | | Madrailanai | E | e |
| e | 26 23 | | | | | | | | |
| e | 30 01 | | | | | | | | |
| i | 36 07 | | | | | | | | |
| e | 37 58 | | | | | | | | |
| e | 38 28 | | | | | | | | |
| i | 45 43 | | | | | | | | |
| e | 51 22 | | | | | | | | |
| e | 23 06 51 | | | | | | | | |
| e | 13 36 | | | | | | | | |
| 21 | 04 09 21 | Tocklai | E | e | 04 09 21 | Slight, near. | | | |
| | | | | 21 | Shillong | Z | e | 04 39 12 | Slight, distant. |
| | | | | | | | e | 04 47 20 | Slight, distant. |

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

November, 1960.

| | | | | | | |
|----|----------|---|-----------------------------------|---|-----|----------------------------------|
| 21 | Shillong | Z | e | 05 07 55 | | Tremor distant. |
| 21 | Shillong | Z | i | 05 45 12 | | Distant. |
| 21 | Shillong | Z | iPg iSg | 07 36 14 36 27 | 110 | Slight. |
| 21 | Shillong | Z | eP | 08 41 30 | | Slight, near. |
| 21 | Shillong | Z | eP | 10 10 15 | | Slight, distant. |
| 21 | Shillong | Z | eP | 18 53 42 | | Slight, distant. |
| 21 | Chatra | Z | eP | 18 53 57 | | Feeble, distant. |
| 21 | Shillong | Z | e | 22 37 20 | | Tremor. |
| 21 | Shillong | Z | eP | 23 09 03 | | Slight, near. |
| 21 | Shillong | Z | eP | 23 25 04 | | Slight, near. |
| 22 | Shillong | E | e | 03 56 21 | | Surface wave of a distant shock. |
| | Calcutta | E | e | 03 56 51 | | Slight. |
| 22 | Shillong | Z | iP pP pPp Pg iS Sg | 04 02 49 02 56 03 03 03 08 03 39 04 03 | 470 | Slight, Rarefaction. |
| | Chatra | Z | eP i? | 03 03 41 05 09 | | Feeble, compression. |

22 Epc:- 33.5° S, 54.5° E, Indian Ocean
 - H = 06h. 21m. 43s. (Shillong)
 35.0° S, 52.3° E, Indian Ocean North of Crozet Islands.
 - H = 06h. 21m. 45s. h = about 21 kms. (USCG3)
 Mag : $6\frac{3}{4}$ (Pas).

| | | | | | |
|--------|---|--|--|------|------------------|
| Madras | E | iP PcP PP iS ScS LQ LR | 06 31 22 32 17 33 30 39 09 40 46 45 45 48 05 | 6210 | Gr. movement 'W' |
| Poona | Z | iP PP | 06 31 40 33 54 | 6510 | |
| | N | iS PPS LR | 39 41 40 13 42 24 | | |

| DATE | STATION | COUNT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------|---------|--------|-------|----------------------|-----------------|---------|
|------|---------|--------|-------|----------------------|-----------------|---------|

November, 1960.

| | | | | | | |
|----------------|--|-------|---|----------------|-------|---|
| 22 (Contd.) | Bombay | E | eP | 06 31 42 | 6480 | |
| | | | eS | 39 44 | | |
| | | | P _s | 40 12 | | |
| | Hyderabad | EN | iP | 06 31 45 | 8550 | Gr. movement towards West and South. |
| | | | iS | 39 52 | | |
| | | N | 3c3 | 41 40 | | |
| | | | SS | 43 43 | | |
| | | E | LR | 48 31 | | |
| | | | V | LR | | |
| E | M | 51 47 | Period = 17 secs. Gr. dis. = 6 μ . | | | |
| E | M | 52 13 | Period = 9 secs. Gr. dis. = 4 μ . | | | |
| | Port Blair | E | e | 06 31 51 | | |
| | Bokaro | NE | iP | 06 32 43 | 7550 | Phases not well developed. |
| | | | iS | 41 42 | | |
| | Calcutta | E | e? | 06 32 51 | | |
| | Dehra Dun | NE | eP | 06 33 03 | 7710 | |
| | | | N | P ₂ | | |
| | | | P ₂ | 37 12 | | |
| | | | iS | 41 10 | | |
| | | | SS | 46 57 | | |
| | | | SS | 49 29 | | |
| | | M | 50 52 | | | |
| | Dhatra | Z | iP | 06 33 05 | 7800 | Distant. Rarefaction. |
| | | | iL | eS | | |
| | Shillong | Z | iP | 06 33 10 | 7980 | Rarefaction. |
| | | | NE | eP | | |
| | | E | P ₂ | 37 32 | | |
| | | | iS | 41 30 | | |
| | | | P ₂ | 42 55 | | |
| | P ₂ | 43 16 | | | | |
| 22 | Shillong | Z | iP | 07 10 59 | | Slight, distant Compression. |
| | Dhatra | Z | eP | 07 10 13 | | Very feeble, distant. |
| 22 | Dehra Dun | NE | e | 09 41 25 | | Tremor. |
| 22 | Epc:- 40°S, 74.3°W, Near Coast of South Chile h = about 107 km. -H = 12h. 28m. 58.4s. Mag:- 6½ (Pas) 5½-5¼ (Pal). | | | | | |
| | Bombay | E | 1PKP1 | 12 48 30 | 16710 | |
| | | | e | 49 53 | | |
| | | | P ₂ | 52 08 | | |

| DATE | STATION | COMP. | PHASE | G. M. T. | △ | REMARKS |
|------|---------|-------|-------|----------|-----|---------|
| | | | | h. m. s. | km. | |

November, 1960.

| | | | | | | |
|----|--|----|--------|----------|-------|--------------------------------------|
| 22 | Bombay (Contd.) | E | e | 12 55 18 | | |
| | | | PPP(2) | 13 02 22 | | |
| | | | PPS | 04 29 | | |
| | | | eSS | 11 32 | | |
| | | | M | 50 39 | | Period = 19 secs. Gr. dis. = 3 μ. |
| | Madras | E | i | 12 48 31 | | Gr. movement East. |
| | | | e | 50 17 | | |
| | | | e | 55 04 | | |
| | | | e | 13 01 12 | | |
| | Poona | Z | iPKP | 12 48 31 | | |
| | | | i | 49 04 | | |
| | | | e | 51 53 | | |
| | | | i | 55 24 | | |
| | | | e | 56 49 | | |
| | Hyderabad | N | e | 12 48 40 | | Period = 18 secs. Gr. dis. = 5 μ. |
| | | | M | 13 45 19 | | |
| | Port Blair | E | i | 12 48 45 | | |
| | Calcutta | E | ePKP1 | 12 48 51 | | |
| | Chatra | Z | ePKP1? | 12 48 51 | 17670 | Very distant. |
| | | | i | 48 55 | | |
| | | | ePKP2 | 49 33 | | |
| | | E | ePP? | 53 09 | | |
| | Shillong | ZE | ePKP | 12 48 51 | | Distant. |
| | | E | e | 53 20 | | |
| | | | e | 13 00 02 | | |
| | Dehra Dun | NE | e | 12 49 04 | | |
| | | | i | 52 54 | | |
| | | | i | 58 53 | | |
| | | | i | 13 03 30 | | |
| 22 | Shillong | Z | iPg | 14 15 08 | 90 | Slight, compression. |
| | | | Sg | 15 18 | | |
| 22 | Shillong | Z | iPg | 14 37 00 | 130 | Slight, Rarefaction. |
| | | | i | 37 04 | | |
| | | | Sg | 37 16 | | |
| 22 | Dehra Dun | NE | e | 17 36 01 | | Tremor. |
| 22 | Epi:- 7.3° N, 95.7° E, Nicobar Island Region. | | | | | |
| | h = about 25 km., - H = 17h. 51m. 36.5s. (USCGS) | | | | | |
| | Port Blair | E | iP | 17 52 59 | 450 | Slight. |
| | | | iS | 53 47 | | |
| | Madras | E | e | 17 55 14 | | Tremor. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|-----------|-----------|-----------------------------------|---|-----------------|---|
| <u>November, 1960.</u> | | | | | | |
| 22 (Contd.) | Shillong | Z | iP | 17 55 52 | | Slight, distant compression. |
| | Chatra | Z ZNE | eP eS | 17 56 19 18 00 13 | 2380 | Feeble, slight |
| | Poona | Z | eP | 17 56 43 | | Tremor. |
| | Bombay | E | eP eS Lg SS | 17 56 59 18 01 13 01 27 02 01 | 1650 | Slight. |
| | Calcutta | E | eP | 17 58 45 | | Slight. |
| | Hyderabad | N | M | 18 02 46 | | Period = 24 secs. Gr. dis. = 2 μ . |
| | Dehra Dun | NE | e | 18 02 45 | | Feeble. |
| 22 | Shillong | Z | eP | 22 02 32 | | Slight, distant. |
| 22 | Shillong | Z | iP | 22 54 37 | | Slight, distant. Compression. |
| 23 | Chatra | ZNE NE | iP iS | 01 15 59 16 18 | 150 | Slight, near Rarefaction. Gr. movement North & West. |
| | Shillong | Z | iP PP PPP Pg iS LR | 01 16 52 17 01 17 06 17 16 17 53 17 57 | 590 | Slight, Rarefaction. |
| | Dehra Dun | NE | e | 01 18 41 | | Tremor. |
| 23 | Shillong | Z | iP iSg | 02 05 41 05 59 | 70 | Slight, compression. |
| 23 | Shillong | Z | iP | 04 21 43 | | Slight, distant Rarefaction. |
| 23 | Shillong | Z | e | 04 30 09 | | Slight, distant. |
| 23 | Shillong | Z | e | 04 49 57 | | Slight, distant. |
| 23 | Shillong | Z | i | 08 44 44 | | Slight, distant. |
| 23 | Shillong | Z | e | 09 53 49 | | Slight, distant. |
| 23 | Shillong | Z | eP | 10 13 01 | | Slight, distant. |

| DATE | STATION | COMPT. | PHASE | G. M. T. h. m. s. | Δ km. | REMARKS |
|------------------------|--|-----------------------|--|---|-----------------|---|
| <u>November, 1960.</u> | | | | | | |
| 25 | Epc:- 24.2° S, 176.1° W, South of Tonga Islands Region, h = about 28 kms. - H = 14h. 12m. 21.1s. Mag:- 6 $\frac{1}{4}$ (Pas & Berk), 6 $\frac{1}{4}$ -7 (Pal) (USCGS). | | | | | |
| | Port Blair | E | iP iS M | 14 25 06 36 36 15 02 50 | 9470 | |
| | Shillong | ZE E | eP PP PPP SKS PS PPS | 14 26 16 30 32 32 41 36 55 39 43 40 31 | 11270 | |
| | Chatra | Z | eP ESKS | 14 26 37 37 11 | | Distant. |
| | Bokaro | NE | eP? i | 14 26 48 37 20 | | Distant. |
| | Bombay | E | e ePKP1 PP PPP SKS(2) SKKS1 PS eSS M | 14 26 49 30 31 34 01 35 21 38 13 39 16 41 57 46 41 15 24 56 | 12290 | Period = 17 secs. Gr. dis. = 6 μ . Period = 18 secs. Gr. dis. = 10 μ . |
| | | N | M | 29 36 | | |
| | Calcutta | E | e? e i e i i | 14 29 50 36 56 37 20 37 58 38 38 45 48 | | |
| | Madras | E | eP? e LR | 14 30 29 37 40 45 56 | | |
| | Poona | Z N | ePKP1 PP i e e | 14 31 17 35 18 38 06 42 27 42 43 | | |
| | Hyderabad | E N E N E | e LR LR N M | 14 31 38 15 06 43 07 31 16 19 17 07 | | Period = 18 secs. Gr. dis. = 8 μ . Period = 18 secs. Gr. dis. = 9 μ . |

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

November, 1960.

| | | | | | | |
|----------------|--|----|-------|----------|-----|----------------------------------|
| 23 (Contd.) | Dehra Dun | NE | e | 14 32 14 | | |
| | | N | i | 38 03 | | |
| | | | i | 39 13 | | |
| | | | i | 43 06 | | |
| | Kodaikanal | E | eP | 14 37 03 | | Long distance shock. |
| 23 | The shock was felt at Delhi (Press). | | | | | |
| | Dehra Dun | NE | eP | 16 26 38 | 120 | |
| | | N | PP | 26 44 | | |
| | | | iS | 26 54 | | |
| | | | SS | 27 04 | | |
| | | | SSS | 27 15 | | |
| | Chatra | Z | eP | 16 28 21 | 920 | Feeble, distant. |
| | | NE | PP | 28 28 | | |
| | | | PP | 28 35 | | |
| | | | LQ | 29 49 | | |
| | | | S | 29 57 | | |
| | | | SS | 30 11 | | |
| | | | SSS | 30 20 | | |
| | | Sg | 30 55 | | | |
| | Shillong | Z | eP | 16 29 16 | | Slight, distant. |
| | Poona | Z | eP | 16 31 58 | | Feeble. |
| 23 | Epc:- 4.6°N, 125.8°E, Near Mindanas (Philippine islands) h = about 516 kms. - H = 16h. 52m. 12.9s. (USCGS). | | | | | |
| | Shillong | Z | iP | 16 59 27 | | Slight, distant. |
| | Chatra | Z | iP | 17 00 05 | | Feeble, distant compression. |
| | Poona | Z | iP | 17 01 17 | | Feeble. |
| | Shillong | Z | eP | 17 05 07 | | Slight, distant. |
| 23 | Shillong | Z | iP | 17 16 55 | 370 | Slight, rarefaction. |
| | | | iS | 17 35 | | |
| 23 | Bombay | E | e | 18 08 40 | | Slight. |
| | | | e | 18 22 | | |
| | | | e | 26 20 | | |
| | Shillong | Z | e | 18 10 32 | | Slight, distant. |
| 23 | Shillong | Z | iP | 18 40 52 | | Slight, distant. Rarefaction. |
| 23 | Shillong | Z | e | 19 55 31 | | Tremor. |
| 23 | Shillong | Z | eP | 20 07 59 | | Slight, distant. |
| 23 | Shillong | Z | e | 20 25 02 | | Tremor. |

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

November, 1960.

| | | | | | | |
|----|--|--------------------|---------------------------------|---|------|---|
| 23 | Shillong | Z | e | 21 44 54 | | Tremor. |
| 23 | Shillong | Z | iP | 23 21 37 | | Slight, distant. Rarefaction. |
| | Chatra | Z | iP | 23 22 16 | | Feeble, distant. |
| 24 | Shillong | Z | iP iS | 03 20 40 21 15 | 310 | Slight, Rarefaction. |
| 24 | Calcutta | E | e? e i e | 04 01 16 06 51 11 13 17 16 | | Slight. |
| 24 | Epic:- 4.6° S, 153° E, -h = about 87 kms. New Britain Region. Felt. Mag. = $6\frac{1}{4}$ (Pas) (USCGS). | | | | | |
| | Shillong | ZE E | iP iS | 05 00 59 10 13 | 7860 | Compression. Initial Gr. movement towards West. |
| | Chatra | ZNE NE | eP eS | 05 01 28 11 17 | 8580 | Very distant. |
| | Madras | E | e e | 05 01 49 11 54 | | |
| | Hyderabad | E | i M | 05 02 05 28 05 | | Period = 24 secs. Gr. dis. = 10 μ . |
| | Kodaikanal | E | e | 05 02 10 | | Tremor. |
| | Dehra Dun | NE N | eP PP iS SS M | 05 02 22 05 09 12 17 17 02 32 20 | 8690 | |
| | Poona | Z | iP | 05 02 26 | | |
| | Bombay | NE E NE E | eP e PP eS PS SS | 05 02 30 04 02 05 30 12 40 13 08 16 48 | 9020 | Somewhat deep. |
| 24 | Epic:- 24.2° S, 176.1° W, South of Tonga Islands. Region, h = about 23 kms. Mag:- 7 (Pas) $7\frac{1}{4}$ - $7\frac{1}{2}$ (Berk) $7-7\frac{1}{4}$ (Pal) (USCGS). | | | | | |
| | Port Blair | E | eP iS | 07 06 20 16 44 | 9330 | |

| DATE | STATION | COMP. | PHASE | G. M. T. | REMARKS |
|------|---------|-------|-------|----------|---------|
| | | | | h. m. s. | km. |

November, 1960.

| | | | | | |
|----------------|-----------|-----|-------|--|--|
| 24 (Contd.) | Shillong | Z | eP | 07 06 37 | |
| | | NE | 1SKS | 17 13 | |
| | Chatra | ZNE | eP | 07 07 00 | 10240 Distant. |
| | | NE | OP | 10 37 | |
| | | | PP | 12 50 | |
| | | | SKS | 17 54 | |
| | | | S | 18 01 | |
| | | | ePPS | 19 41 | |
| | | | SS | 24 00 | |
| | | | eSSS | 27 27 | |
| | | | eLQ | 31 26 | |
| | | | LR | 34 40 | |
| | | E | M | 08 09 10 | Period = 15 secs. Gr. dis. = 8 μ . |
| | F | M | 11 12 | Period = 15 secs. Gr. dis. = 12 μ . | |
| | Calcutta | E | e | 07 07 01 | |
| | | | e | 09 51 | |
| | | | i | 17 31 | |
| | | | e | 22 11 | |
| | | | i | 26 09 | |
| | | LR | 29 39 | | |
| | Madras | E | e | 07 07 16 | |
| | | | i | 13 36 | |
| | | | e | 19 20 | |
| | | | e | 22 52 | |
| | Bombay | NE | e | 07 07 46 | 11650 |
| | | | ePKP1 | 10 52 | |
| | | E | PP | 14 17 | |
| | | NE | SKS2 | 18 13 | |
| | | E | SKKS1 | 19 34 | |
| | | NE | PS | 22 18 | |
| | | | PPS | 25 55 | |
| | | E | eSC | 26 02 | |
| | | | M | 55 19 | Period = 15 secs. Gr. dis. = 18 μ . |
| | | V | M | 08 10 40 | Period = 15 secs. Gr. dis. = 19 μ . |
| | Bhopal | Z | eP | 01 10 47 | 11400 |
| | | N | eS | 02 29 | |
| | | | PS | 23 43 | |
| | | | SEP | 29 47 | |
| | | | LQ | 40 05 | |
| | Debra Dun | NE | eP | 07 12 01 | |
| | | N | e | 15 38 | |
| | | | e | 20 15 | |
| | | | e | 23 51 | |
| | | | e | 26 51 | |
| | | | e | 27 38 | |
| | | | M | 35 44 | |

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

November, 1960.

| | | | | | |
|----------------|--|----|-------|----------|--|
| 21 (Contd.) | Kodaikanal | E | e | 07 12 21 | Long distance shock, Gr. movement West. |
| | | | iS | 23 21 | |
| | | | e | 25 41 | |
| | | | e | 30 59 | |
| | | | e | 44 44 | |
| | | | M | 52 59 | Period = 20 secs. Gr. dis. = 32.3 μ . |
| | Hyderabad | E | S | 07 17 59 | Period = 15 secs. Gr. dis. = 13 μ . |
| M | | | 54 56 | | |
| 24 | Shillong | Z | eP | 07 22 44 | Slight, distant. |
| 24 | Bokaro | NE | ePKP | 08 10 36 | Very distant. |
| | | | PP | 11 58 | |
| | | | SKS | 17 39 | |
| | | | SKKS | 18 45 | |
| 24 | Tocklai | E | e | 09 17 19 | Slight, distant. |
| 24 | Shillong | Z | eP | 16 30 07 | Slight, near. |
| 24 | Shillong | Z | eP | 18 27 09 | Slight, near. |
| 24 | Shillong | Z | e | 19 47 35 | Slight, distant. |
| 24 | Shillong | Z | eP | 22 31 35 | Slight, near. |
| | | | e | 32 13 | |
| 24 | Shillong | Z | iP | 22 48 25 | Slight, distant. Rarefaction. |
| 24 | Shillong | Z | eP | 22 51 06 | Slight, distant. |
| 25 | Shillong | Z | iP | 00 06 34 | Slight, distant. Compression. |
| 25 | Shillong | Z | eP | 09 38 41 | Slight, distant. |
| 25 | Shillong | Z | iP | 09 49 20 | Slight, distant. Rarefaction. |
| 25 | Shillong | Z | iP | 10 22 39 | Slight, near. |
| 25 | Shillong | Z | e | 12 14 55 | Tremor, distant. |
| 25 | Shillong | Z | e | 20 12 32 | Slight, distant. |
| 25 | Epc:- 38° N, $140\frac{1}{2}^{\circ}$ E. - H = 21h. 54m. 13.8s. Honsu, Japan. h = about 157 km. (USCGS). | | | | |
| | Tocklai | E | eP | 22 01 45 | Slight, distant. |

| DATE | STATION | COMP.T. | PHASE | G. M. T. | Δ | REMARKS |
|------------------------|-----------|---------|-------|----------|----------|---|
| | | | | h. m. s. | km. | |
| <u>November, 1960.</u> | | | | | | |
| 25 (Contd.) | Shillong | ZE | iP | 22 02 00 | 4570 | Slight, Rarefaction. Initial Gr. movement East. |
| | | E | pP | 02 23 | | |
| | | | sP | 02 34 | | |
| | | | PP | 03 45 | | |
| | | | iS | 08 14 | | |
| | Chatra | NE | eP | 22 02 26 | 4960 | Moderate, distant. |
| | | | PP | 04 05 | | |
| | | | PP | 04 15 | | |
| | | | PP | 05 01 | | |
| | | | eS | 07 03 | | |
| | | | eSS | 12 11 | | |
| | | | eSSS | 13 08 | | |
| | | | M | 17 18 | | |
| | Dehra Dun | NE | eP | 22 03 13 | 548 | Slight. |
| | | | iS | 10 19 | | |
| | Poona | Z | iP | 22 04 16 | | Feeble, other phases not clear. |
| | Bombay | NE | eP | 22 04 13 | 6720 | Slight. |
| | | | e | 04 50 | | |
| | | | eS | 12 33 | | |
| | | E | PS | 13 03 | | |
| 25 | Shillong | Z | iP | 22 40 18 | | Slight, distant. |
| 25 | Shillong | Z | iP | 02 56 20 | | Slight, distant. Rarefaction. |
| 25 | Shillong | Z | eP | 07 44 57 | | Slight, distant. |
| 26 | Shillong | Z | e | 12 14 59 | | Slight, distant. |
| 26 | Chatra | Z | Pg | 15 31 18 | 80 | Feeble, near. |
| | | | Pg | 31 27 | | |
| | Shillong | Z | eP | 15 40 56 | | Slight, distant. |
| 26 | Shillong | Z | iP | 15 43 14 | | Slight, distant. Rarefaction. |
| | Chatra | Z | e | 16 43 32 | | Feeble, near. |
| 26 | Shillong | Z | iP | 16 57 21 | | Slight, distant. Compression. |
| | Chatra | Z | i | 16 57 33 | | Feeble distant. Compression. |
| 26 | Shillong | Z | eP | 17 21 57 | | Slight, distant. |
| | Chatra | Z | i | 17 22 28 | | Feeble distant. Rarefaction. |

| DATE | STATION | COMP. | PHASE | G. M. T. | Δ | REMARKS |
|------------------------|-----------|-------|-------|----------|----------|------------------------------------|
| | | | | h. m. s. | km. | |
| <u>November, 1960.</u> | | | | | | |
| 26 | Shillong | Z | iP | 17 26 51 | | Slight, distant. Compression. |
| 23 | Shillong | Z | eP | 18 33 23 | | Slight, distant. |
| 26 | Hyderabad | EN | i | 18 50 37 | | |
| | Poona | Z | eP | 18 51 59 | | Feeble, other phases not clear. |
| | Chatra | Z | eP | 18 51 59 | 1070 | Feeble, distant. |
| | | | pp | 52 06 | | |
| | | | ppp | 52 14 | | |
| | | | LQ | 53 40 | | |
| | | ZN | S | 53 49 | | |
| | | | SS | 54 01 | | |
| | | | SSS | 54 14 | | |
| | | | Sg,M | 55 56 | | |
| | Shillong | Z | iP | 18 52 34 | | Slight, distant. Compression. |
| 26 | Shillong | Z | eP | 18 54 50 | | Slight, distant. |
| 23 | Shillong | Z | iP | 20 47 53 | 180 | Slight, Rarefaction. |
| | | | | 48 15 | | |
| | Chatra | Z | eP | 20 48 13 | 370 | Mild, near. |
| | | | eS | 48 53 | | |
| 28 | Shillong | Z | e | 21 47 34 | | Tremor. |
| | | | e | 49 14 | | |
| 23 | Shillong | Z | e | 22 11 24 | | Tremor. |
| 26 | Shillong | Z | iP | 23 28 58 | | Slight, near. |
| 27 | Shillong | Z | iPg | 09 36 45 | 20 | Slight, near. |
| | | | iSg | 36 47 | | |
| 27 | Shillong | Z | iP | 11 04 07 | | Slight, distant. Rarefaction. |
| 27 | Shillong | Z | iP | 12 12 13 | | Slight, distant. Compression. |
| 27 | Chatra | Z | eP | 13 13 34 | 250 | Feeble, near. |
| | | | eS | 14 03 | | |
| 27 | Shillong | Z | eP | 13 20 22 | | Slight, distant. |
| 27 | Shillong | Z | eP | 15 25 24 | | Slight, distant. |
| | Chatra | Z | iP | 15 25 48 | | Feeble, distant. Compression. |

| DATE | STATION | COMP. | PHASE | G. M. T. | | △ km. | REMARKS |
|------------------------|-----------|-------|------------|-------------------|-------|----------|------------------------------------|
| | | | | h. | m. s. | | |
| <u>November, 1960.</u> | | | | | | | |
| 27 | Chatra | ZN | iPg iSg | 17 53 55 54 11 | 130 | | Feeble near. Rarefaction. |
| | Shillong | Z | iP iS | 17 54 52 55 23 | 280 | | Slight, Rarefaction. |
| 27 | Shillong | Z | iP | 18 05 56 | | | Slight, distant. Rarefaction. |
| 27 | Shillong | Z | iP | 18 57 38 | | | Slight, distant. Rarefaction. |
| 27 | Chatra | Z | eP | 20 06 49 | | | Feeble, distant. |
| | Shillong | Z | iP | 20 07 10 | | | Slight, distant. Compression. |
| | Dehra Dun | NE | e | 20 07 30 | | | Tremor. |
| 27 | Shillong | Z | iP iSg | 20 28 44 28 53 | 80 | | Slight. |
| 27 | Shillong | Z | iP | 20 48 17 | | | Slight, distant. Rarefaction. |
| 27 | Shillong | Z | iP iSg | 21 04 35 04 46 | 100 | | Slight. |
| 27 | Chatra | Z | iP | 21 21 49 | | | Feeble, distant. Compression. |
| | Dehra Dun | NE | e | 21 22 13 | | | Tremor. |
| | Shillong | Z | iP | 21 22 55 | | | Slight, distant. Compression. |
| 27 | Doona | Z | iP | 21 44 07 | | | Feeble, other phases not clear. |
| | Shillong | Z | eP | 21 44 29 | | | Slight, distant. |
| 27 | Shillong | Z | e | 22 26 38 | | | Slight, distant. |
| 27 | Dehra Dun | NE | e | 22 39 40 | | | Tremor. |
| 27 | Shillong | Z | i | 23 23 39 | | | Slight, distant. |
| 27 | Shillong | Z | e | 23 39 11 | | | Slight, distant. |
| 28 | Shillong | Z | e | 04 00 31 | | | Slight, distant. |
| 28 | Shillong | Z | iP | 05 45 55 | | | Slight, distant. Rarefaction. |
| 28 | Shillong | Z | iP | 06 25 43 | | | Slight, distant. Rarefaction. |

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

November, 1960.

| | | | | | | |
|----|------------|---|-----------|-------------------|-----|---------------------------------------|
| 28 | Shillong | Z | e | 18 29 04 | | Slight, distant. |
| 28 | Shillong | Z | iP iS | 20 55 46 55 51 | 30 | Slight. |
| 28 | Shillong | Z | eP | 21 40 32 | | Slight, distant. |
| | Chatra | Z | eP | 21 41 31 | | Feeble, distant. |
| 29 | Shillong | Z | iP iSg | 07 39 05 39 09 | 30 | Slight. |
| 29 | Shillong | Z | iP | 08 50 51 | | Slight, distant. Compression. |
| 29 | Poona | Z | iP | 09 51 29 | | Feeble, other phases not clear. |
| | Port Blair | E | e | 09 51 53 | | Slight. |
| | Shillong | Z | iP | 09 51 53 | | Slight, distant. Rarefaction. |
| 29 | Shillong | Z | iP iS | 10 28 46 28 56 | 80 | Slight. |
| 29 | Shillong | Z | e | 10 59 33 | | Slight, distant. |
| 29 | Shillong | Z | e | 11 14 38 | | Slight, distant. |
| 29 | Shillong | Z | iP iSg | 13 28 50 29 15 | 210 | Slight, Rarefaction. |
| | Chatra | Z | eP | 13 29 38 | | Mild near, other phases not clear. |
| 29 | Shillong | Z | iP | 14 13 09 | | Slight, distant. Rarefaction. |
| | Chatra | Z | iP | 14 13 45 | | Very feeble. |
| 29 | Shillong | Z | iP | 14 16 03 | | Slight, distant. Rarefaction. |
| | Chatra | Z | i | 14 16 16 | | Feeble, compression. |
| 29 | Shillong | Z | iP | 14 19 37 | | Slight, distant. Rarefaction. |
| | Chatra | Z | i | 14 19 51 | | Feeble. |
| 29 | Chatra | Z | eP? | 16 09 59 | | Very feeble. |
| 29 | Chatra | Z | eP | 19 30 26 | | Very mild, distant. |
| | Shillong | Z | eP | 19 30 50 | | Slight, distant. |
| 29 | Shillong | Z | eP | 19 37 51 | | Slight, distant. |

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

November, 1960.

| | | | | | | | | |
|----|-------------|----|----------|----|----|----|-----|----------------------------------|
| 29 | Shillong | Z | iP | 20 | 24 | 19 | | Slight, distant. Rarefaction. |
| 29 | Shillong | Z | iP | 22 | 11 | 40 | | Slight, distant. Compression. |
| 30 | Chatra | Z | eP S | 00 | 48 | 44 | 170 | Mild near. |
| | | | | | 49 | 05 | | |
| 30 | Dehra Dun | NE | e i | 04 | 17 | 22 | | Feeble. |
| | | | | | 18 | 28 | | |
| | Shillong | Z | eP | 04 | 18 | 21 | | Slight, distant. |
| 30 | Shillong | Z | i eP | 07 | 10 | 03 | | Slight, distant. |
| | | | | | 10 | 05 | | |
| 30 | Shillong | Z | eP | 10 | 14 | 21 | | Slight, distant. |
| 30 | Shillong | Z | iP | 10 | 14 | 45 | | Slight, distant. |
| 30 | Shillong | Z | eP | 10 | 19 | 02 | | Slight, distant. |
| 30 | Shillong | Z | iP | 13 | 18 | 42 | | Slight, distant. |
| | Dehra Dun | NE | e | 13 | 21 | 57 | | Feeble. |
| 30 | Shillong | Z | iP | 13 | 59 | 50 | | Slight, distant. Rarefaction. |
| 30 | Vizianagram | NE | eP | 17 | 04 | 17 | | Slight, local. |
| 30 | Vizianagram | NE | eP | 17 | 18 | 34 | | Slight, local. |
| 30 | Shillong | Z | eP | 18 | 53 | 34 | | Slight, distant. Rarefaction. |
| 30 | Shillong | Z | eP IS | 18 | 55 | 39 | 100 | Slight. |
| | | | | | 55 | 52 | | |
| 30 | Shillong | Z | eP | 18 | 57 | 53 | | Slight, distant. |

The following is the list of earthquakes that are reported by the various observers from the different stations during the month of November, 1960.

| Place | Date in B. M. T. | Time in G. M. T. | No. of shock | Duration of shock in sec. | Intensity in R.F. Scale | Remarks |
|-------------------|---------------------|---------------------|-----------------|------------------------------|-------------------------------|--|
| Upper Shillong | 2.11.60 | 16 34 | 1 | 5 | III | |
| Upper Shillong | 6.11.60 | 15 33 | 1 | 4 | III | |
| Gangtok | 8.11.60 | 02 51 | 1 | 5 | IV | From NW, Explosion-like sound before shock. |
| Upper Shillong | 15.11.60 | 09 09 | 1 | 10 | III | From SE to NW. Travelling wave sound. |

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MICROSEISMIC -48- TABULATION

| Date | Hour G.M.T. | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour G.M.T. | K | Mean amplitude in m.m. | Mean period in secs. |
|--------------------|----------------|-----|------------------------------|----------------------------|-----------------|----------------|-----|------------------------------|----------------------------|
| Station : Shillong | | | | | November, 1960 | | | | |
| | | | | | Component; E-W. | | | | |
| 01 | 00 | 1 | 1.0 | 5.7 | 12 | 00 | 3 | 0.4 | 5.5 |
| | 06 | 1 | 0.9 | 5.7 | | 06 | 3 | 0.3 | 5.0 |
| | 12 | 1 | 0.9 | 5.5 | | 12 | 3 | 0.4 | 4.2 |
| | 18 | 1 | 0.7 | 5.5 | | 18 | 3 | 0.3 | 5.0 |
| 02 | 00 | 1 | 0.3 | 5.4 | 13 | 00 | 3 | 0.4 | 4.4 |
| | 06 | 3 | 0.4 | 5.4 | | 06 | 3 | 0.4 | 4.0 |
| | 12 | 3 | 0.5 | 5.2 | | 12 | ... | - | - |
| | 18 | ... | - | - | | 18 | 3 | 0.3 | 4.5 |
| 03 | 00 | 3 | 0.3 | 4.3 | 14 | 00 | 3 | 0.4 | 3.7 |
| | 06 | 3 | 0.4 | 4.2 | | 06 | 3 | 0.4 | 5.0 |
| | 12 | 3 | 0.4 | 4.7 | | 12 | 3 | 0.3 | 5.0 |
| | 18 | 3 | 0.4 | 4.2 | | 18 | 3 | 0.3 | 4.6 |
| 04 | 00 | 3 | 0.4 | 4.2 | 15 | 00 | 3 | 0.4 | 4.4 |
| | 06 | . | - | - | | 06 | 3 | 0.4 | 4.6 |
| | 12 | 3 | 0.4 | 5.3 | | 12 | 3 | 0.4 | 5.0 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.4 | 5.0 |
| 05 | 00 | 3 | 0.4 | 5.0 | 16 | 00 | 3 | 0.3 | 4.4 |
| | 06 | 3 | 0.4 | 4.8 | | 06 | 3 | 0.4 | 4.7 |
| | 12 | 3 | 0.4 | 5.0 | | 12 | 3 | 0.4 | 5.0 |
| | 18 | 3 | 0.4 | 5.0 | | 18 | 3 | 0.4 | 4.2 |
| 06 | 00 | 3 | 0.4 | 5.0 | 17 | 00 | 3 | 0.3 | 4.4 |
| | 06 | 3 | 0.4 | 4.6 | | 06 | 3 | 0.3 | 4.0 |
| | 12 | 3 | 0.4 | 5.0 | | 12 | 3 | 0.3 | 5.0 |
| | 18 | 3 | 0.4 | 4.4 | | 18 | 3 | 0.4 | 5.0 |
| 07 | 00 | 3 | 0.4 | 4.5 | 18 | 00 | 3 | 0.3 | 5.0 |
| | 06 | ... | - | - | | 06 | 3 | 0.3 | 5.0 |
| | 12 | ... | - | - | | 12 | 3 | 0.3 | 4.7 |
| | 18 | ... | - | - | | 18 | 3 | 0.3 | 4.5 |
| 08 | 00 to 18 | ... | - | - | 19 | 00 | 3 | 0.4 | 4.6 |
| | | ... | - | - | | 06 | 3 | 0.4 | 4.7 |
| 09 | 00 | ... | - | - | | 12 | 3 | 0.4 | 4.5 |
| | 06 | ... | - | - | | 18 | 3 | 0.3 | 5.0 |
| | 12 | ... | - | - | | | | | |
| | 18 | 3 | 0.3 | 4.2 | 20 | 00 | 3 | 0.3 | 5.0 |
| | | | | | | 06 | 3 | 0.3 | 5.0 |
| 10 | 00 | 3 | 0.2 | 5.4 | | 12 | 3 | 0.3 | 4.3 |
| | 06 | 3 | 0.3 | 5.0 | | 18 | 3 | 0.4 | 4.6 |
| | 12 | 3 | 0.3 | 5.6 | | | | | |
| | 18 | 3 | 0.3 | 5.6 | 21 | 00 | ... | - | - |
| | | | | | | 06 | 3 | 0.4 | 4.6 |
| 11 | 00 | 3 | 0.2 | 4.0 | | 12 | 3 | 0.4 | 4.8 |
| | 06 | 3 | 0.3 | 4.5 | | 18 | 3 | 0.3 | 4.6 |
| | 12 | 3 | 0.4 | 5.0 | | | | | |
| | 18 | 3 | 0.4 | 6.0 | 22 | 00 | 3 | 0.3 | 5.2 |
| | | | | | | 06 | 3 | 0.4 | 4.5 |
| | | | | | | 12 | 3 | 0.4 | 5.0 |
| | | | | | | 18 | 3 | 0.4 | 5.0 |

| Date | Time | Magn. | Mean amplitude in mm. | Mean period in secs. | Date | Hour G.M.T. | K | Mean amplitude in m.m. | Mean period in secs. |
|--------------------------|------|-------|-----------------------------|----------------------------|-------------|----------------|-----|------------------------------|----------------------------|
| Station: Hilling | | | | | | | | | |
| November, 1930 | | | | | | | | | |
| Component; E-W. | | | | | | | | | |
| 22 | | 3 | 0.4 | 5.0 | 02 | 15 to | ... | - | - |
| | 03 | 3 | 0.4 | 5.2 | (Contd.) 21 | | | | |
| | 12 | 3 | 0.4 | 5.2 | | | | | |
| | 18 | 3 | 0.4 | 5.0 | 03 | 00 | 2 | 0.3 | 4.1 |
| | | | | | | 06 | 2 | 0.5 | 4.6 |
| 24 | 00 | 3 | 0.3 | 5.4 | | 12 | 2 | 0.5 | 4.2 |
| | 06 | 3 | 0.3 | 5.0 | | 18 | 2 | 0.4 | 4.2 |
| | 12 | 3 | 0.4 | 5.0 | | | | | |
| | 18 | 3 | 0.4 | 4.8 | 04 | 00 | 2 | 0.4 | 4.7 |
| | | | | | | 06 | 2 | 0.5 | 5.7 |
| 25 | 00 | 3 | 0.4 | 5.0 | | 12 | 2 | 0.4 | 4.4 |
| | 06 | 3 | 0.4 | 5.0 | | 18 | 2 | 0.3 | 4.6 |
| | 12 | 3 | 0.4 | 4.6 | | | | | |
| | 18 | 3 | 0.4 | 4.5 | 05 | 00 | 2 | 0.3 | 4.4 |
| | | | | | | 06 | ... | - | - |
| 26 | 00 | 3 | 0.4 | 5.0 | | 12 | 2 | 0.3 | 3.1 |
| | 06 | 3 | 0.4 | 4.5 | | 18 | 2 | 0.3 | 3.2 |
| | 12 | 3 | 0.4 | 5.0 | | | | | |
| | 18 | 3 | 0.4 | 4.8 | 06 | 00 | 2 | 0.3 | 3.1 |
| | | | | | | 06 | 2 | 0.3 | 3.2 |
| 27 | 00 | 3 | 0.4 | 5.0 | | 12 | 2 | 0.4 | 3.0 |
| | 06 | 3 | 0.4 | 5.0 | | 18 | 2 | 0.4 | 3.5 |
| | 12 | 3 | 0.4 | 5.0 | | | | | |
| | 18 | 3 | 0.3 | 5.0 | 07 | 00 | 2 | 0.4 | 3.1 |
| | | | | | | 03 | 2 | 0.3 | 3.0 |
| 28 | 00 | 3 | 0.3 | 5.0 | | 12 | 2 | 0.3 | 3.0 |
| | 06 | 3 | 0.4 | 4.6 | | 18 | 2 | 0.4 | 2.8 |
| | 12 | 3 | 0.4 | 4.8 | | | | | |
| | 18 | 3 | 0.4 | 4.6 | 08 | 00 | 2 | 0.4 | 2.7 |
| | | | | | | 06 | 2 | 0.4 | 3.0 |
| 29 | 00 | 3 | 0.3 | 5.4 | | 12 | 2 | 0.4 | 3.1 |
| | 06 | 3 | 1.0 | 6.0 | | 18 | 2 | 0.4 | 3.4 |
| | 12 | 3 | 1.0 | 5.8 | | | | | |
| | 18 | 3 | 1.0 | 5.8 | 09 | 00 | 2 | 0.5 | 3.1 |
| | | | | | | 06 | ... | - | - |
| 30 | 00 | 3 | 0.7 | 5.0 | | 12 | 2 | 0.4 | 3.0 |
| | 06 | 3 | 0.8 | 5.2 | | 18 | 2 | 0.5 | 3.3 |
| | 12 | 3 | 0.7 | 5.2 | | | | | |
| | 18 | 3 | 0.6 | 4.6 | 10 | 00 | 2 | 0.4 | 3.2 |
| | | | | | | 06 | ... | - | - |
| | | | | | | 12 | ... | - | - |
| | | | | | | 18 | 2 | 0.6 | 3.4 |
| Station: Bombay (Colaba) | | | | | | | | | |
| 01 | 00 | 1 | 1.2 | 4.7 | | | | | |
| | 03 | 1 | 1.2 | 5.2 | 11 | 00 | 2 | 0.6 | 3.7 |
| | 06 | 1 | 1.2 | 5.1 | | 06 | 2 | 0.5 | 3.5 |
| | 12 | 1 | 1.2 | 5.2 | | 12 | 2 | 0.6 | 3.6 |
| | 18 | 1 | 1.0 | 4.9 | | 18 | 2 | 0.5 | 3.5 |
| | 00 | 1 | 1.2 | 5.1 | | | | | |
| | 03 | 1 | 1.0 | 4.9 | 12 | 00 | 2 | 0.5 | 3.5 |
| | 06 | 1 | 1.0 | 5.1 | | 06 | 2 | 0.5 | 3.8 |
| | 12 | 1 | 1.0 | 5.1 | | 12 | 2 | 0.4 | 3.7 |
| 02 | 00 | 1 | 0.8 | 4.8 | | 18 | 2 | 0.5 | 3.9 |
| | 03 | 1 | 0.8 | 4.8 | | | | | |
| | 06 | 1 | 0.7 | 4.9 | 13 | 00 | 2 | 0.5 | 3.7 |
| | 09 | 1 | 0.6 | 4.8 | | 06 | 2 | 0.5 | 3.7 |
| | 12 | 3 | 0.6 | 4.9 | | 12 | ... | - | - |
| | | | 0.4 | 2.7 | | 18 | 2 | 0.5 | 3.9 |

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | | | | | |
|---------------------------|------|-----|---------------------------|-------------------------|----------------|------|-----|---------------------------|-------------------------|------------------|--|--|--|--|
| Station : Bombay (Colaba) | | | | | November, 1960 | | | | | Component : E.W. | | | | |
| 14 | 00 | 2 | 0.4 | 3.1 | 22 | 00 | 2 | 0.5 | 4.4 | | | | | |
| | 06 | 2 | 0.4 | 3.7 | | 06 | 2 | 0.5 | 4.4 | | | | | |
| | 12 | 2 | 0.4 | 3.2 | | 12 | 2 | 0.4 | 4.1 | | | | | |
| | 18 | 2 | 0.4 | 3.1 | | 18 | ... | - | - | | | | | |
| 15 | 00 | 2 | 0.4 | 3.2 | 23 | 00 | 2 | 0.5 | 5.0 | | | | | |
| | 03 | 2 | 0.3 | 3.8 | | 06 | 2 | 0.4 | 5.4 | | | | | |
| | 12 | 2 | 0.4 | 3.2 | | 12 | 2 | 0.4 | 5.0 | | | | | |
| | 18 | 2 | 0.3 | 3.1 | | 18 | 3 | 0.4 | 4.8 | | | | | |
| 16 | 00 | 2 | 0.4 | 3.2 | 24 | 00 | 3 | 0.4 | 5.1 | | | | | |
| | 06 | 2 | 0.5 | 3.0 | | | | 0.4 | 2.2 | | | | | |
| | 12 | 2 | 0.5 | 3.2 | | 06 | 3 | 0.5 | 5.0 | | | | | |
| | 18 | 2 | 0.4 | 3.3 | | | | 0.4 | 2.5 | | | | | |
| 17 | 00 | 2 | 0.4 | 3.1 | | 12 | 3 | 0.4 | 4.8 | | | | | |
| | 06 | ... | - | - | | | | 0.4 | 2.3 | | | | | |
| | 12 | 2 | 0.5 | 3.2 | | 18 | 3 | 0.5 | 5.4 | | | | | |
| | 18 | 2 | 0.5 | 3.2 | | | | 0.5 | 2.3 | | | | | |
| 18 | 00 | 1 | 0.4 | 3.2 | 25 | 00 | 3 | 0.5 | 5.5 | | | | | |
| | 03 | 1 | 0.5 | 3.4 | | | | 0.5 | 2.0 | | | | | |
| | 06 | 1 | 0.5 | 3.3 | | 06 | 3 | 0.5 | 4.3 | | | | | |
| | 09 | 1 | 0.5 | 3.3 | | | | 0.4 | 2.4 | | | | | |
| | 12 | 1 | 0.4 | 3.3 | | 12 | 3 | 0.5 | 4.0 | | | | | |
| | 15 | 1 | 0.6 | 3.5 | | | | 0.4 | 2.7 | | | | | |
| | 18 | 1 | 0.7 | 3.5 | | 18 | 3 | 0.5 | 3.9 | | | | | |
| | 21 | 1 | 0.7 | 3.4 | | | | 0.4 | 2.5 | | | | | |
| 19 | 00 | 1 | 0.7 | 3.8 | 26 | 00 | 2 | 0.5 | 4.4 | | | | | |
| | 03 | 1 | 0.7 | 3.4 | | 06 | 2 | 0.5 | 4.4 | | | | | |
| | 06 | 1 | 0.8 | 3.8 | | 12 | 2 | 0.5 | 3.1 | | | | | |
| | 09 | 1 | 0.8 | 3.7 | | 18 | 2 | 0.5 | 3.6 | | | | | |
| | 12 | 1 | 0.8 | 3.4 | 27 | 00 | 2 | 0.5 | 3.8 | | | | | |
| | 15 | 1 | 0.8 | 3.3 | | 06 | 2 | 0.5 | 4.0 | | | | | |
| | 18 | 1 | 0.9 | 3.5 | | 12 | 2 | 0.6 | 4.0 | | | | | |
| | 21 | 1 | 0.9 | 3.6 | | 18 | 3 | 0.5 | 4.0 | | | | | |
| 20 | 00 | 1 | 0.8 | 3.6 | 28 | 00 | 2 | 0.5 | 3.9 | | | | | |
| | 03 | 1 | 0.8 | 3.8 | | 06 | 3 | 0.5 | 4.1 | | | | | |
| | 06 | 1 | 0.8 | 3.6 | | | | 0.3 | 2.0 | | | | | |
| | 09 | 1 | 0.9 | 4.0 | | 12 | 3 | 0.7 | 4.1 | | | | | |
| | 12 | 1 | 0.7 | 4.1 | | | | 0.5 | 2.0 | | | | | |
| | 15 | 1 | 0.7 | 3.3 | | 18 | 3 | 0.6 | 4.3 | | | | | |
| | 18 | 1 | 0.6 | 4.0 | | | | 0.5 | 2.2 | | | | | |
| | 21 | 1 | 0.5 | 3.8 | 29 | 00 | 3 | 0.6 | 5.4 | | | | | |
| 21 | 00 | ... | - | - | | | | 0.5 | 2.5 | | | | | |
| | 03 | 1 | 0.5 | 4.0 | | 06 | 3 | 0.5 | 5.4 | | | | | |
| | 06 | 1 | 0.5 | 4.3 | | | | 0.4 | 2.3 | | | | | |
| | 09 | 1 | 0.5 | 4.0 | | 12 | 3 | 0.6 | 6.1 | | | | | |
| | 12 | 1 | 0.5 | 4.1 | | | | 0.4 | 2.2 | | | | | |
| | 15 | 1 | 0.5 | 4.3 | | 18 | 3 | 0.6 | 5.4 | | | | | |
| | 18 | 1 | 0.5 | 4.5 | | | | 0.5 | 2.6 | | | | | |
| | 21 | 1 | 0.5 | 4.4 | | | | | | | | | | |

Station: Madras
 Date: 10th November, 1960
 Time: 10:00
 Magnitude: 3.0
 Depth: 10 km

| Station | Code | Magnitude | Depth (km) | Time | Phase | Amplitude | Period | Quality |
|-----------------|------|-----------|------------|------|-------|-----------|--------|---------|
| Station: Madras | 00 | 1 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 1 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 1 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 09 | 1 | 3.0 | 10 | 09 | 0.1 | 0.3 | 3.0 |
| | 12 | 1 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 15 | 1 | 3.0 | 10 | 15 | 0.1 | 0.3 | 3.0 |
| | 18 | 1 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| | 21 | 1 | 3.0 | 10 | 21 | 0.1 | 0.3 | 3.0 |
| | 02 | 3 | 3.0 | 10 | 02 | 0.1 | 0.3 | 3.0 |
| | 03 | 3 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| 05 | 00 | 3 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 3 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 3 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 3 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 3 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| 06 | 00 | 1 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 1 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 1 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 1 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 1 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| 07 | 00 | 1 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 1 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 1 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 1 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 1 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| 08 | 00 | 1 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 1 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 1 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 1 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 1 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| 09 | 00 | 1 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 1 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 1 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 1 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 1 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |
| 10 | 00 | 3 | 3.0 | 10 | 00 | 0.1 | 0.3 | 3.0 |
| | 03 | 3 | 3.0 | 10 | 03 | 0.1 | 0.3 | 3.0 |
| | 05 | 3 | 3.0 | 10 | 05 | 0.1 | 0.3 | 3.0 |
| | 12 | 3 | 3.0 | 10 | 12 | 0.1 | 0.3 | 3.0 |
| | 18 | 3 | 3.0 | 10 | 18 | 0.1 | 0.3 | 3.0 |

| Date | Hour | K | Mean amplitude | Mean period | Date | Hour | K | Mean amplitude | Mean period |
|------|--------|---|----------------|-------------|------|--------|---|----------------|-------------|
| | G.M.T. | | in m.m. | in secs. | | G.M.T. | | in m.m. | in secs. |

Station : Madras

November, 1960

Component : E-W.

| | | | | | | | | | |
|----------|----|-----|-----|-----|----------------------|-------|------|-----|-----|
| 17 | 06 | 3 | 0.4 | 3.0 | 26 | 12 | 3 | 0.4 | 3.0 |
| (contd.) | 12 | 3 | 0.3 | 3.0 | (Contd.) | 18 | 3 | 0.4 | 3.3 |
| | 18 | 3 | 0.4 | 3.0 | 27 | 00 | 3 | 0.5 | 3.5 |
| 18 | 00 | 3 | 0.4 | 3.0 | | 03 | 3 | 0.5 | 3.3 |
| | 03 | 1 | 0.4 | 3.0 | | 06 | 3 | 0.5 | 3.5 |
| | 06 | 1 | 0.5 | 2.9 | | 12 | 3 | 0.4 | 3.4 |
| | 12 | 1 | 0.6 | 3.0 | | 18 | 3 | 0.5 | 4.0 |
| | 18 | 1 | 0.6 | 3.0 | | | 1 | 0.3 | 2.8 |
| 19 | 00 | 1 | 0.6 | 3.0 | 28 | 00 | 3 | 0.3 | 3.0 |
| | 03 | 1 | 0.7 | 3.0 | | 03 | 3 | 0.4 | 3.1 |
| | 06 | 1 | 0.9 | 3.0 | | | 1 | 0.2 | 2.1 |
| | 12 | 1 | 1.1 | 3.2 | | 06 | 3 | 0.4 | 3.0 |
| | 18 | 1 | 1.3 | 3.1 | | | 1 | 0.2 | 2.2 |
| 20 | 00 | 1 | 1.1 | 3.1 | | 12 | 3 | 0.4 | 3.4 |
| | 03 | 1 | 0.9 | 3.0 | | | 1 | 0.2 | 2.3 |
| | 06 | 1 | 0.9 | 3.0 | | 18 | 1 | 0.4 | 2.9 |
| | 12 | ... | - | - | 29 | 00 | 1 | 0.3 | 3.1 |
| | 18 | ... | - | - | | 03 to | ... | - | - |
| 21 | 00 | ... | - | - | | 18 | ... | - | - |
| | 03 | ... | - | - | 30 | 00 to | ... | - | - |
| | 06 | 3 | 0.2 | 2.7 | | 18 | ... | - | - |
| | 12 | 3 | 0.2 | 2.6 | Station : Port Blair | | | | |
| | 18 | 3 | 0.2 | 2.7 | 01 | 00 | 3 | 0.8 | 7.5 |
| 22 | 00 | 3 | 0.1 | 2.4 | | 06 to | ... | - | - |
| | 03 | 3 | 0.2 | 2.4 | | 18 | ... | - | - |
| | 06 | ... | - | - | 02 | 00 | 3 | 0.4 | 7.5 |
| | 12 | 3 | 0.1 | 2.5 | | 06 | 3 | 0.4 | 7.5 |
| | 18 | 3 | 0.2 | 2.5 | | 12 | ... | - | - |
| 23 | 00 | 3 | 0.2 | 2.6 | | 18 | 3 | 0.4 | 7.5 |
| | 03 | 3 | 0.1 | 2.4 | 03 | 00 to | 10,0 | - | - |
| | 06 | 3 | 0.2 | 2.7 | | 18 | ... | - | - |
| | 12 | 3 | 0.2 | 2.7 | 04 | 00 to | 10,0 | - | - |
| | 18 | 3 | 0.2 | 2.7 | | 18 | ... | - | - |
| 24 | 00 | 1 | 0.2 | 2.8 | 05 | 00 | 0,0 | - | - |
| | 03 | 1 | 0.3 | 2.8 | | 06 | 2 | 0.4 | 7.5 |
| | 06 | 1 | 0.3 | 2.8 | | 12 | 2 | 0.4 | 7.5 |
| | 12 | 1 | 0.4 | 2.9 | | 18 | 2 | 0.4 | 7.5 |
| | 18 | 1 | 0.4 | 3.3 | 06 | 00 | 2 | 0.4 | 7.5 |
| 25 | 00 | 1 | 0.3 | 3.0 | | 06 | 2 | 1.2 | 7.5 |
| | 03 | 3 | 0.4 | 3.2 | | 12 | 2 | 1.2 | 7.5 |
| | 06 | ... | - | - | | 18 | 2 | 1.6 | 7.5 |
| | 12 | 3 | 0.3 | 3.1 | 07 | 00 | 2 | 2.4 | 7.5 |
| | 18 | 3 | 0.3 | 2.9 | | 06 | 2 | 2.0 | 7.5 |
| 26 | 00 | 3 | 0.4 | 3.0 | | 12 | 2 | 2.0 | 7.5 |
| | 03 | 3 | 0.4 | 3.0 | | 18 | 2 | 2.0 | 7.5 |
| | 06 | 3 | 0.4 | 3.1 | | | | | |

| Date | Time | Mag | Mean depth in miles | Mean period in secs. | Date | Hour | Mag | Mean depth in miles | Mean period in secs. |
|-----------------|----------|-----|---------------------|----------------------|------|------|-----|---------------------|----------------------|
| November, 1960 | | | | | | | | | |
| Component: S-W. | | | | | | | | | |
| 25 | 00 | 3 | 2.0 | 7.5 | 25 | 00 | 0.1 | - | - |
| | 06 | 3 | 1.2 | 7.2 | | 06 | 0.1 | - | - |
| | 12 | 3 | 0.8 | 7.2 | | 12 | 3 | 3.2 | 3.2 |
| | 18 | 3 | 0.4 | 7.4 | | 18 | 3 | - | 3.2 |
| 26 | 00 | 3 | 0.4 | 7.2 | 26 | 00 | 3 | 0.4 | 3.2 |
| | 06 | ... | - | - | | 06 | 3 | 0.4 | 3.2 |
| | 12 | ... | - | - | | 12 | 3 | 0.4 | 3.2 |
| | 18 | 3 | 0.4 | 3.2 | | 18 | 3 | 0.4 | 3.2 |
| 27 | 00 | 3 | 0.4 | 3.2 | 27 | 00 | 3 | 0.4 | 3.2 |
| | 06 | 0.. | - | - | | 06 | 2 | 0.4 | 3.2 |
| | 12 | 0.. | - | - | | 12 | 2 | 0.4 | 3.2 |
| | 18 | 0.. | - | - | | 18 | 2 | 0.4 | 3.2 |
| 28 | 00 | 0.. | - | - | 28 | 00 | 2 | 0.4 | 3.2 |
| | 06 | 0.. | - | - | | 06 | 2 | 0.4 | 3.2 |
| | 12 | 0.. | - | - | | 12 | 2 | 0.4 | 3.2 |
| | 18 | 0,0 | - | - | | 18 | 2 | 0.4 | 3.2 |
| 29 | 00 | 0,0 | - | - | 29 | 00 | 2 | 0.4 | 3.2 |
| | 06 | 0.. | - | - | | 06 | 2 | 0.4 | 3.2 |
| | 12 | 0.. | - | - | | 12 | 2 | 0.4 | 3.2 |
| | 18 | 0.. | - | - | | 18 | 2 | 0.4 | 3.2 |
| 30 | 00 | 0.. | - | - | 30 | 00 | 3 | 0.4 | 3.2 |
| | 06 | 0.. | - | - | | 06 | 3 | 0.4 | 3.2 |
| | 12 | 0.. | - | - | | 12 | 2 | 0.4 | 3.2 |
| | 18 | 0.. | - | - | | 18 | 2 | 0.8 | 3.2 |
| 24 | 00 | 0.. | - | - | | | | | |
| | 06 to 18 | 0,0 | - | - | | | | | |

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

SEISMOLOGICAL BULLETIN

DEC 1960



Published under the direction of
Shri P.R. Krishna Rao
Director General of Observatories

List of Seismograph Stations with their Instruments and Constants

| Station | Latitude | Longitude | Height a.s.l. (Metres) | Lithographic foundation | Instrument | Compt | Period in secs | Static Magnifi- cation | Damping ratio | Paper speed mm/min |
|---------|----------|-----------|------------------------------|----------------------------|--------------------------|-------|----------------------|------------------------------|------------------|--------------------------|
| | | | | | Columbia Long Period | E | To = 15 | Tg = 100 | | 15 |
| | | | | | - do - | N | To = 15 | Tg = 85 | | 15 |
| | | | | | - do - | Z | To = 15 | Tg = 70 | | 15 |
| ay | 18.54°N | 72.40°E | 5 | Deccan Trap | Milne-Shaw | N | 12 | 350 | 13:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 350 | 23:1 | 8 |
| | | | | | Sprengnether | E | To = Tg = 7 secs | | | 30 |
| ro | 23.50°N | 85.48°E | | Rock | Milne-Shaw | N | 12 | 250 | 20:1 | 16 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | E | 0.8 | 950 | h = 0.8 | 60 |
| | | | | | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 60 |
| utta | 22.32°N | 88.22°E | (1) 7 | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | (2) 6 | Omori-Ewing | Wood-Anderson | N | 2 | 870 | Critical | 30 |
| | | | | Alluvium | Omori-Ewing | N | 16 | 32 | - | 25.4 |
| | | | | | Omori-Ewing | E | 21 | 30 | - | 25.4 |
| ra | 26.50°N | 87.10°E | 141 | Sand Stone | Milne-Shaw | E | 12 | 250 | 20:1 | 16 |
| | | | | | Wood-Anderson | N | 1 | 1000 | 30:1 | 60 |
| | | | | | Benioff | Z | To = 0 | Tg = 0.45 secs | Critical | 60 |
| | | | | | Wenner- Accelerograph | ZNE | - | - | - | - |
| bo | 06.54°N | 79.52°E | 7 | Beach Sand | Milne-Shaw | E | 12 | 250 | 20:1 | - |
| a Dun | 30.19°N | 78.02°E | 682 | Gravel | Wood-Anderson | N | 0.8 | 950 | Critical | 60 |
| | | | | | Wood-Anderson | E | 0.8 | 850 | Critical | 60 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| abad | 17.38°N | 78.27°E | 836 | Granite | Milne-Shaw | E | 12 | 250 | 20:1 | 8 |
| | | | | | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| kanal | 10.14°N | 77.28°E | 2345 | Rock | Milne-Shaw | E | 10 | 250 | 20:1 | 8 |
| s | 18.00°N | 80.11°E | 15 | - | Sprengnether | E | To = Tg = 7.2 secs | | Critical | 30 |
| elhi | 28.35°N | 77.12°E | 207 | Massive Quartzite | | | | | | |
| | 18.32°N | 73.51°E | 560 | Deccan Trap | Sprengnether | Z | To = Tg = 1.5 | | Critical | 30 |
| | | | | | Wood-Anderson | E | 4 | 1000 | 20:1 | 16 |
| | | | | | Milne-Shaw | N | 12 | 280 | 20:1 | 8 |
| Blair | 11.40°N | 92.45°E | - | - | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |
| | | | | | Wood-Anderson | E | 0.8 | 1000 | 65:1 | 30 |
| | | | | | Milne-Shaw | N | 12 | 350 | 20:1 | 8 |
| | | | | | Wood-Anderson | N | 0.8 | 980 | Critical | 30 |
| ong | 25.54°N | 91.53°E | 1600 | Quartzite | Wood-Anderson | N | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | Sand Stone | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | (Shillong Quartzite) | Milne-Shaw | N | 12 | 250 | 20:1 | 8 |
| | | | | | Benioff | Z | To = 1.0 | Tg = 18 | | 50 |
| | | | | | Sprengnether | E | To = Tg = 6.3 | | Critical | 30 |
| | | | | | Wenner Accelerograph | ZNE | - | - | - | - |
| id | 28.45°N | 94.45°E | | Alluvium | Wood-Anderson | E | 0.8 | 970 | h = 0.8 | 60 |
| agram | 18.07°N | 83.37°E | | - | Wood-Anderson | E | 0.8 | 1000 | h = 0.8 | 30 |
| | | | | | Wood-Anderson | N | 2 | 1000 | 20:1 | 30 |

| Date | Station | Compt. | Phase | G.M. T. h. m. s. | Δ Km. | Remarks. |
|-----------------------|-------------|--------|-------|---------------------|-----------------|--------------------------------------|
| <u>December, 1960</u> | | | | | | |
| 01 | Shillong | Z | e | 04 19 25 | | Slight distant. |
| 01 | Shillong | Z | iP | 04 46 05 | | Slight distant compression. |
| | Dehra Dun | NE | e | 04 46 17 | | Tremor. |
| | Chatra | Z | iP | 04 46 33 | | Very feeble, rarefaction. |
| 01 | Shillong | Z | i | 09 47 05 | | Slight distant. |
| 01 | Shillong | Z | iP | 10 22 01 | | Slight distant, compression. |
| | Chatra | Z | iP | 10 22 30 | | Feeble distant. |
| 01 | Shillong | Z | iP | 14 28 05 | 530 | Slight compression. |
| | | | PP | 28 12 | | |
| | | | Pg | 28 27 | | |
| | | | S | 29 00 | | |
| | | | LR | 29 05 | | |
| | | | Sg | 29 29 | | |
| 01 | Shillong | Z | eP | 14 53 10 | | Slight near, rarefaction. |
| 01 | Shillong | Z | eP | 15 52 48 | 310 | Slight. Rarefaction. |
| | | | PP | 52 56 | | |
| | | | S | 53 21 | | |
| | | | SS | 53 31 | | |
| | | | SSS | 53 42 | | |
| 01 | Shillong | Z | i | 16 18 22 | | Slight distant. |
| 01 | Vizianagram | E | ePg | 17 02 51 | | Feeble. |
| 01 | Vizianagram | EN | iPg | 17 40 30 | 60 | Slight local |
| | | E | iSg | 40 37 | | |
| 01 | Shillong | Z | i | 17 48 23 | | Slight distant. |
| 01 | Shillong | Z | i | 18 55 25 | | Slight distant. |
| 01 | Shillong | ZE | eP | 21 00 37 | | Slight, Rarefaction. |
| 01 | Dehra Dun | NE | e | 21 08 00 | | Feeble |
| | | | i | 14 43 | | |
| | Calcutta | E | e | 21 09 17 | | Slight |
| | | | e | 20 32 | | |
| | | | e | 39 02 | | |
| | Bombay | E | e | 21 14 54 | | Slight distant. |
| | | NE | e | 24 20 | | |
| | Kodaikanal | E | e | 21 47 45 | | Tremor. |
| | Hyderabad | E | M | 21 48 16 | | Period = 24 secs, Gr. dis = 11 u. |

 Date Station Compt. Phase G. M. T. / Remarks.
 h. m. s. Km.

December, 1960

01 Shillong Z eP 23 35 32 Slight distant. Rarefaction.
 02 Vizianagram E iPg 00 07 16 Very slight.
 02 Shillong Z iP 04 48 22 Slight distant. Rarefaction.
 02 Shillong Z e 05 43 48 Slight distant.
 02 Epc:- 24.5 s 69.9 w, h = about 37 kms.
 Near Coast of Chile. Felt Antofagasta,
 Mag: 7-7 $\frac{1}{4}$ (Berk) 6 $\frac{3}{4}$ -7(Pal) (USCGS).
 -H = 09 h. 10 m. 41 s.

Bombay NE ePKP₁ 09 30 20 16380
 E ePP 33 53
 N PKS₂ 34 43
 NE SKKS₁ 41 00
 E SKKKS 41 43
 SKSP 44 03
 NE eSS 52 52
 N LQ 10 11 59
 E LQ 14 00
 M 34 00
 Period = 19 secs,
 Gr.dis = 42 u

Poona Z iPKP 09 30 24
 N e 33 34
 e 38 47
 e 39 19
 e 46 00

Kodaikanal E PKP₁ 09 30 26 17550 Long distance, Initial
 Gr.movement - East.
 PP 34 38
 SKS₂ 36 35
 SKKKS 42 20
 SS 55 29
 SSS 10 02 23
 LQ 20 44
 LR 29 05
 M 43 20
 Period = 15 secs,
 Gr. dis = 19.2 u

02 Colombo E PKP 09 30 33
 e 47 21
 e 10 22 21
 e 29 21
 e 41 41

Hyderabad E ePKP₁ 09 30 39
 i 38 25
 i 41 29
 i 44 34
 PPP(2) 45 05
 i 46 22
 i 57 31
 LQ 10 08 52
 LR 13 17
 M 24 43
 Period = 21 secs,
 Gr. dis = 44 u

 Date Station Compt. Phase G. M. T. Δ Remarks.
 h. m. s. Km.

December 1960

Dehra Dun NE e 09 30 41 Phases not identifiable.
 i 35 50
 i 41 27
 i 57 33

Chatra ZNE ePKP₁ 09 30 43 Distant.
 NE i 31 45
 i 32 28
 e 34 05
 e 35 17
 e 39 11
 e 39 20
 e 42 13
 e 42 20
 e 45 50
 e 49 28
 e 49 56
 i 54 13
 e 10 04 20
 e 10 -
 N M 49 50 Period = 18.75 sec.,
 Gr. dis = 67.9 u

Bokaro NE ePKP 09 30 46 Very distant other
 e 42 09 phases unidentifiable

Shillong ZNE iPKP 09 30 47 Distant, Compression.
 NE PS 44 59

Madras E PKP 09 30 47 Very distant.

Port Blair N i 09 30 52
 e 36 30

Calcutta E ePKP₁ 09 30 57 17890
 PKP₂ 31 41
 PP 35 25
 SKKS₁ 42 18
 SKSP 45 43
 PPS 48 51
 SSP 54 08
 SS 55 33
 SSP₂ 09 00 28
 SS₂ 08 33

Tocklai E iPKP 09 30 59 Distant.

Epc: 24.35 69.8W, h= about 64 kms.
 Near Coast of Chile.
 Mag: $6\frac{3}{4}$ (Pas)
 -H = 09 h. 37 m. 38.6 s. (USGS).

Bombay NE ePKP₁ 09 57 17 16270
 E PP 10 00 00
 N eSS 19 39

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|--|--------|-------|----------------------|-----------------|---|
| <u>December 1960</u> | | | | | | |
| | Poona | Z | iPKP | 09 57 17 | | |
| | | N | e | 59 05 | | |
| | | | e | 10 06 12 | | |
| | | | e | 10 29 | | |
| | | | e | 13 19 | | |
| | | | e | 16 55 | | |
| | Madras | E | iPKP | 09 57 27 | | Other phases could not be identified due to overlapping. Initial Gr. Motion-East. |
| | Chatra | ZNE | eP | 09 57 37 | | Distant phases mixed up with previous shock. |
| | Shillong | Z | iPKP | 09 57 40 | | Distant, Compression. |
| 02 | Chatra | Z | iP | 13 34 16 | | Feeble distant. |
| 02 | Shillong | Z | iP | 13 54 18 | | Slight distant. Compression. |
| 02 | Shillong | Z | iP | 17 24 05 | | Slight distant. Compression. |
| | Chatra | Z | eP | 17 24 39 | | Feeble distant. |
| 02 | Shillong | Z | eP | 17 43 34 | | Slight distant. Compression. |
| 02 | Shillong | Z | iP | 17 49 48 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 17 50 25 | | Rarefaction feeble distant. |
| 02 | Vizianagram | E | ePg | 19 38 14 | | Very slight. |
| | Chatra | Z | e | 19 39 02 | | Feeble distant. |
| 02 | Poona | Z | iP | 19 51 24 | | Tremor. |
| | Shillong | Z | iP | 19 52 06 | | Slight distant. Compression. |
| | Chatra | Z | iP | 19 52 08 | | Compression feeble distant. |
| 02 | Shillong | Z | iP | 22 01 01 | | Rarefaction Slight distant. |
| 03 | Epic: Lat 44 N Long 103.5 E Gobi Desert, Mongolia. | | | | | |
| | -H= 04 h. 24 m. 10 s. (Shillong) | | | | | |
| | 42.6 N, 104.5 E -h= 45 Km. | | | | | |
| | -H = 04 h. 24 m. 17.5 s. (USCGS) | | | | | |
| | Mag:- 7 (Shillong), 7 (Pas & Berk). | | | | | |
| | Tocklai | E | iP | 04 28 35 | 2090 | Initial ground movement -- East. |
| | | | PP | 28 50 | | |
| | | | PPP | 29 14 | | |
| | | | IS | 32 02 | | |
| | | | LQ | 32 08 | | |
| | | | SS | 32 29 | | |
| | | | SSS | 32 40 | | |
| | | | LR | 33 00 | | |
| | | | M | 34 32 | | |

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| | | | | | | |
|-------------|--------|-------|----------|----------|---|--|
| Shillong | ZNE | iP | 04 28 52 | 2290 | Compression. | |
| | | PP | 29 22 | | | |
| | NE | S | 32 38 | | | |
| | | SS | 32 49 | | | |
| | | SSS | 33 19 | | | |
| | | LR | 34 45 | | | |
| | M | 35 15 | | | | |
| Chatra | Z | eP | 04 29 07 | 2460 | Rarefaction. | |
| | | iP | 29 07 | | | |
| | NE | PP | 29 33 | | | |
| | | iS | 33 07 | | | |
| | N | M | 38 - | | | Period = 9 secs, Gr.dis= 135 μ |
| | E | M | 38 - | | | Period=11 Secs. Gr.dis= 276 μ |
| Dehra Dun | NE | eP | 04 29 37 | 2840 | | |
| | N | PP | 31 07 | | | |
| | | PPP | 31 28 | | | |
| | | iS | 34 03 | | | |
| | | LQ | 34 43 | | | |
| | | SS | 35 06 | | | |
| | | SSS | 35 20 | | | |
| | | LR | 36 01 | | | |
| | | M | 37 45 | | | Period=15.4 secs, Gr.dis = 158 μ |
| | Bokaro | NE | iP | 04 29 37 | | 2700 |
| E | | PP | 30 07 | | | |
| | | PPP | 30 22 | | | |
| | | iS | 33 54 | | | |
| | | LQ | 35 35 | | | |
| | | SSS | 36 05 | | | |
| | | LR | 36 48 | | | |
| | | M | 38 50 | | Period = 19 secs, Gr.dis = 175 μ | |
| Calcutta | E | iP | 04 29 39 | 2850 | First ground motion: towards West. | |
| | N | iP | 29 41 | | | |
| | EN | iS | 34 05 | | | |
| | E | M | 38 05 | | | Period = 15 secs, Gr.dis= 278.6 μ |
| Vizianagram | N | iP | 04 30 34 | 3610 | Distant. Initial ground motion, South. | |
| | | iS | 35 49 | | | |
| Port Blair | E | iP | 04 30 52 | 3680 | | |
| | | iS | 36 11 | | | |
| | | PcS | 37 25 | | | |
| | | SS | 38 09 | | | |

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|------------|--------|--------|----------|------|---|----------|---|-----------------------------|
| Hyderabad | E | iP | 04 30 55 | 3960 | Initial ground motion West. Period = 12 secs, Gr.dis = 60 μ | | | |
| | | PP | 32 10 | | | | | |
| | | PPP | 32 28 | | | | | |
| | | PcP | 33 07 | | | | | |
| | | iS | 36 32 | | | | | |
| | | PcS | 36 49 | | | | | |
| | | SS | 38 19 | | | | | |
| | | SSS | 39 38 | | | | | |
| | | LR | 40 14 | | | | | |
| | | M | 42 40 | | | | | |
| Poona | Z N | iP | 04 31 15 | 4060 | | | | |
| | | PP | 32 36 | | | | | |
| | | PPP | 32 58 | | | | | |
| | | PcP | 33 43 | | | | | |
| | | iS | 36 58 | | | | | |
| | | PcS | 37 39 | | | | | |
| | | SS | 39 08 | | | | | |
| | | LQ | 39 21 | | | | | |
| | | SSS | 39 50 | | | | | |
| | | LR | 41 05 | | | | | |
| Bombay | NE | eP | 04 31 16 | 4030 | Period = 15 secs, Gr.dis = 112 μ | | | |
| | | PP | 32 40 | | | | | |
| | | PPP | 33 00 | | | | | |
| | | iS | 36 57 | | | | | |
| | | SS | 39 21 | | | | | |
| | N | LR | 41 27 | | | | | |
| | | M | 44 32 | | | | | |
| | | Madras | E | iP | | 04 31 25 | 4100 | Initial ground motion West. |
| | | | | PP | | 33 02 | | |
| | | | | PPP | | 33 16 | | |
| iS | 37 10 | | | | | | | |
| SS | 39 55 | | | | | | | |
| LQ | 40 01 | | | | | | | |
| SSS | 40 30 | | | | | | | |
| LR | 41 41 | | | | | | | |
| M | 46 19 | | | | | | | |
| Kodaikanal | E | | | iP | 04 32 00 | 4670 | Initial ground motion East. Period = 12 secs, Gr.dis = 56.5 μ | |
| | | iS | 38 20 | | | | | |
| | | LQ | 42 02 | | | | | |
| | | SSS | 42 20 | | | | | |
| | | LR | 44 11 | | | | | |
| | | M | 47 44 | | | | | |
| Colombo | E | iP | 04 32 17 | | Amp: - 6.0 mm. | | | |
| | | e | 38 22 | | | | | |
| | | i | 41 39 | | | | | |
| | | e | 46 14 | | | | | |
| | | M | 49 35 | | | | | |

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| 03 | Chatra | Z | eP | 05 55 54 | | Very feeble, probably distant other phases mixed with previous shocks. |
| 03 | Shillong | Z | iP | 07 18 52 | | Slight distant. Compression. |
| | Chatra | Z | iP | 07 19 05 | | Rarefaction feeble distant other phases not clear. |
| | Poona | Z | iP | 07 20 19 | | Feeble, other phases not clear. |
| 03 | Shillong | Z | e | 07 57 28 | | Slight distant. Compression. |
| | Chatra | Z | eP | 07 57 41 | | Feeble distant. |
| 03 | Shillong | ZNE | iP | 09 18 03 | | Slight distant. Compression. |
| | | | e | 18 39 | | |
| | | | e | 25 01 | | |
| | | | e | 30 55 | | |
| | Chatra | Z | eP | 09 18 44 | | Slight distant. |
| | Poona | Z | iP | 09 20 32 | | Tremor. |
| 03 | Epc:- 43.1 N 104.3 E, Outer Mongolia. h= about 25 Kms. -H= 17 h. 56 m. 28 s. (USCGS). | | | | | |
| | Shillong | ZNE | eP | 18 01 07 | 2210 | Slight compression. |
| | | NE | S | 04 46 | | |
| | Chatra | Z | iP | 18 01 19 | 2430 | Compression, slight. |
| | | NE | eS | 05 17 | | |
| | Poona | Z | iP | 18 03 29 | | Slight. |
| | Dehra Dun | NE | e | 18 06 10 | | Feeble |
| | Hyderabad | E | M | 18 15 31 | | Period= 9 secs, Gr.dis= 3 μ |
| 03 | Dehra Dun | NE | e | 20 30 14 | | Feeble. |
| | | | i | 37 42 | | |
| | Chatra | Z | eP | 20 30 27 | | Rarefaction, very feeble distant, other phases mixed in succeeding shocks. |
| | Shillong | Z | iP | 20 30 30 | | Slight distant. Compression. |
| | Poona | Z | iP | 20 31 39 | | Tremor. |
| | Chatra | Z | iP | 20 32 49 | | Compression, mild. |
| | | ZN | e | 33 07 | | |
| | Shillong | Z | i | 20 33 27 | | Slight distant. Rarefaction. |

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| 03 | Shillong | Z | iP | 21 57 56 | | Slight distant. Compression. |
| 04 | Shillong | Z | e | 04 32 36 | | Slight distant. Rarefaction. |
| 04 | Shillong | Z | eP | 04 37 23 | | Slight distant. Rarefaction. |
| 04 | Shillong | Z | i | 06 05 31 | | Slight distant. Rarefaction. |
| 04 | Shillong | Z | e | 07 31 23 | | Slight distant. |
| 04 | Shillong | Z | i | 12 42 07 | | Near Rarefaction. |
| 04 | Shillong | Z | i | 13 38 17 | | Slight distant. Rarefaction. |
| 04 | Shillong | Z | iP | 14 22 38 | | Slight distant. Compression. |
| 04 | Shillong | Z | iP | 15 08 18 | | Slight distant. Rarefaction. |
| 04 | Epc:- 1.1 N 120.6 E, Northern Celebes. h= about 46 Kms. -H = 15 h. 47 m. 23 s. (U.S.C.G.S). | | | | | |
| | Shillong | ZNE | eP | 15 54 32 | 40 10 | Slight. Rarefaction. |
| | | | PPP | 56 22 | | |
| | | | S | 16 00 12 | | |
| | | | SSS | 03 03 | | |
| | | | LR | 04 54 | | |
| | Chatra | Z | iP | 15 55 09 | | Compression, feeble distant. |
| | Poona | Z | eP | 15 56 14 | | Feeble, other phases not clear. |
| 04 | Bombay | NE | e | 16 03 28 | | Very slight. |
| 04 | Shillong | ZNE | iP | 16 28 36 | | Slight distant. |
| | | | e | 31 16 | | |
| | | | e | 35 07 | | |
| | | | e | 39 52 | | |
| | | | e | 47 15 | | |
| | Chatra | Z | iP | 16 29 05 | | Feeble distant. Rarefaction. |
| | Poona | Z | iP | 16 30 51 | | Feeble, other phases not clear. |
| | Bombay | ZE | e | 16 39 24 | | Very slight. |
| 04 | Shillong | Z | e | 18 00 23 | | Near compression. |
| 04 | Shillong | Z | i | 19 53 05 | | Near compression. |
| 04 | Shillong | Z | e | 20 18 25 | | Slight distant. Rarefaction. |
| 04 | Shillong | Z | e | 22 15 58 | | Slight distant. Compression. |
| 04 | Shillong | Z | iP | 22 19 10 | | Slight distant. |
| | Chatra | Z | iP | 22 20 22 | | Feeble, distant. |
| 04 | Shillong | Z | iP | 22 35 22 | | Slight distant. Rarefaction. |

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05 Shillong Z iP 00 08 16 Slight distant. Rarefaction.
 05 Shillong Z iP 07 18 36 Slight distant. Rarefaction.

Epc:- 44 N 104 E Mongolia, Aftershock.
 -H= 08 h. 58 m. 40 s. (Shillong)
 43N 103.3 E, Outer Mongolia, h= about 59 Kms.
 -H= 08 h. 38 m. 49.5 s. (USCGS).

| | | | | | |
|-----------|-------|-----|----------|---------------------------------|--|
| Shillong | ZNE | iP | 08 43 23 | 2290 | Moderate. Compression. Period= 9 secs, Gr.dis= 3 u |
| | | PP | 43 45 | | |
| | NE | iS | 47 11 | | |
| | | SSS | 47 51 | | |
| | | M | 50 07 | | |
| | | ScP | 50 45 | | |
| ScS | 54 26 | | | | |
| Chatra | ZNE | iP | 08 43 34 | 2420 | Slight to moderate distant. Compression. |
| | | PP | 43 56 | | |
| | NE | PPP | 44 07 | | |
| | | iS | 47 32 | | |
| | | LQ | 47 54 | | |
| | | SS | 48 15 | | |
| | | SSS | 48 26 | | |
| | | LR | 48 53 | | |
| | | M | 50 - | | |
| | | | | | |
| Dehra Dun | NE | eP | 08 44 05 | 2860 | Slight. |
| | | PP | 44 51 | | |
| | N | iS | 48 32 | | |
| | | LQ | 49 25 | | |
| | | SS | 50 00 | | |
| | | SSS | 50 20 | | |
| | | M | 53 27 | | |
| Calcutta | E | eP | 08 44 08 | 2790 | Slight. |
| | | eS | 48 51 | | |
| | | LQ | 49 27 | | |
| | | M | 52 12 | | |
| Bokaro | NE | iP | 08 44 09 | 2900 | Slight. Initial ground motion North & East. |
| | | iS | 48 39 | | |
| Poona | Z | iP | 08 45 44 | 3990 | Slight. |
| | | eS | 51 22 | | |
| | N | PcS | 52 38 | | |
| | | LQ | 53 38 | | |
| | | SSS | 55 07 | | |
| | | LR | 56 15 | | |
| M | 59 19 | | | | |
| Bombay | NE | eP | 08 45 46 | 4050 | Slight. |
| | | eS | 51 28 | | |
| | E | M | 59 04 | | |
| | | | | Period= 15 secs, Gr.dis= 3 u | |
| | | N | M | 09 02 00 | |

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| | Madras | E | eP | 08 | 45 | 53 | 4080 | |
| | | | PP | | 47 | 22 | | |
| | | | PPP | | 47 | 43 | | |
| | | | eS | | 51 | 37 | | |
| | | | SSS | | 54 | 58 | | |
| | | | LR | | 56 | 08 | | |
| | | | M | 09 | 00 | 39 | | |
| | Port Blair | E | e | 08 | 50 | 47 | | Slight. |
| | Hyderabad | N | e | 08 | 51 | 01 | | Slight. |
| | | E | M | | 57 | 59 | | Period= 12 secs, Gr.dis= 5 u |
| | | N | M | | 58 | 01 | | Period= 12 secs, Gr.dis= 6 u |
| | Kodaikanal | E | e | 08 | 52 | 42 | | Tremor. |
| 05 | Calcutta | E | e | 09 | 28 | 24 | | Slight |
| | | | e | | 31 | 51 | | |
| 05 | Shillong | Z | iP | 10 | 00 | 43 | | Slight distant. Rarefaction. |
| 05 | Shillong | Z | e | 12 | 20 | 55 | | Slight distant. |
| 05 | Shillong | Z | iP | 17 | 59 | 34 | | Slight distant. |
| 05 | Shillong | Z | iP | 18 | 17 | 19 | | Slight distant. Rarefaction. |
| | Chatra | Z | eP | 18 | 17 | 33 | | Feeble distant. |
| 05 | Felt Strongly at Gangtok. | | | | | | | |
| | Chatra | Z | iP | 21 | 27 | 23 | 150 | Feeble near. |
| | | | S | | 27 | 43 | | |
| | Shillong | Z | iP | 21 | 27 | 52 | | Slight distant. |
| 05 | Poona | Z | eP | 21 | 33 | 22 | | Feeble, other phases not clear. |
| | Chatra | Z | eP | 21 | 33 | 41 | | Feeble distant. |
| | Shillong | Z | iP | 21 | 34 | 04 | | Slight distant. Compression. |
| 05 | Shillong | Z | iP | 22 | 09 | 24 | | Slight distant. |
| 05 | Shillong | Z | i | 23 | 04 | 38 | | Slight. Tremor. |
| 05 | Epc: 43.2 N 103.8 E, Outer Mongolia. h= about 61 Kms. -H= 23 h. 46 m. 29.8 s. (USCGS). | | | | | | | |
| | Shillong | ZNE | iP | 23 | 51 | 04 | 2240 | Slight. |
| | | | PP | | 51 | 24 | | |
| | | | PPP | | 51 | 34 | | |
| | | | S | | 54 | 46 | | |
| | | | SSS | | 55 | 28 | | |
| | | | LR | | 55 | 53 | | |
| | | | M | | 57 | 24 | | |

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| | Chatra | Z | iP | 23 51 16 | | Feeble distant. Rarefaction. |
| 06 | Epc:- 42.9 N 104.5 E, Outer Mongolia. h = about 55 Kms, -H= 03 h. 35 m. 30.6 s. (USCGS). | | | | | |
| | Shillong | ZNE | iP | 03 39 57 | 2290 | Moderate. Rarefaction. |
| | | | PP | 40 19 | | |
| | | | PPP | 40 28 | | |
| | | NE | iS | 43 43 | | |
| | | | PcP | 43 55 | | |
| | | | SSS | 44 31 | | |
| | | | M | 46 35 | | |
| | Bokaro | NE | iP | 03 40 52 | 2790 | Slight. |
| | | | iS | 45 15 | | |
| | | | M | 49 05 | | |
| | Dehra Dun | NE N | eP | 03 40 52 | 2790 | Slight. |
| | | | PP | 41 26 | | |
| | | | PPP | 41 40 | | |
| | | | iS | 45 15 | | |
| | | | SS | 46 17 | | |
| | | | SSS | 46 43 | | |
| | | | M | 49 08 | | |
| | Poona | Z N | eP | 03 42 26 | 4020 | Slight. |
| | | | eS | 48 07 | | |
| | Bombay | E NE N | eP? | 03 42 33 | | Slight |
| | | | e | 47 56 | | |
| | | | M | 58 12 | | |
| | Period= 11 secs, Gr.dis= 2 u | | | | | |
| | Calcutta | E | e | 03 44 58 | | Slight. |
| | | | e | 45 15 | | |
| | | | e | 49 15 | | |
| | Chatra | Z ZE | i | 03 50 13 | | Feeble distant. Rarefaction. |
| | | | e | 54 16 | | |
| | Hyderabad | N E | M | 03 53 49 | | Period= 18 secs, Gr. dis= 7 u Period= 15 secs, Gr. dis = 7 u |
| | | | M | 54 01 | | |
| 06 | Shillong | Z | iP | 04 04 24 | | Slight. Compression. |
| | Chatra | Z | eP | 04 04 35 | | Very feeble, other phases not clear. |
| 06 | Shillong | Z | e | 08 19 51 | | Slight distant. |
| 06 | Shillong | Z | e | 08 27 40 | | Slight distant. |
| 06 | Chatra | Z | eP | 09 15 42 | | Probably very distant, other phases not clear. |

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| | Shillong | ZE | iPKP ₁ | 09 15 46 | | Rarefaction. |
| | | | PKP ₂ | 16 27 | | |
| | | | SKS ₂ | 22 31 | | |
| | | | PPP(2) | 28 04 | | |
| | | | SKSP | 33 34 | | |
| | | | SSP | 41 24 | | |
| | Bombay | NE | ePKP ₁ | 09 15 48 | 16650 | |
| | | E | PP | 19 23 | | |
| | | | eSS | 38 49 | | |
| | Poona | Z | iPKP ₁ | 09 15 50 | 16710 | |
| | Colembo | E | P | 09 15 59 | | |
| | | | L | 10 10 31 | | |
| | | | M | 16 51 | | Amp= 0.2 mm. |
| | Dehra Dun | NE | e | 09 16 01 | | Phases not clear. |
| | Hyderabad | E | e | 09 16 01 | | |
| | | | M | 10 27 07 | | Period= 15 secs, Gr. dis= 4 u |
| | Bekaro | NE | i | 09 16 02 | | Teleseism, other phases doubtful. |
| | Madras | E | i | 09 16 03 | | Initial Gr. motion-West. |
| | Calcutta | E | e | 09 16 10 | | |
| | Port Blair | E | i | 09 16 14 | | |
| | | | e | 20 42 | | |
| 06 | Kodaikanal | E | e | 09 59 33 | | Tremor. |
| 06 | Dehra Dun | NE | e | 16 50 05 | | Feeble. |
| | | | e | 50 58 | | |
| 06 | Shillong | Z | iP | 18 26 24 | | Slight distant. Compression. |
| | Chatra | Z | eP | 18 27 03 | | Very feeble, probably distant, other phases not clear. |
| 06 | Chatra | Z | iP | 20 35 57 | 170 | Mild near. |
| | | | S | 36 17 | | |
| | Shillong | Z | e | 20 36 50 | | Slight distant. |
| 06 | Epc: 2.6 S 101.5 E, Sumatra. h= about 54 Kms. -H= 21 h. 34 m. 9.3 s. (USCGS). | | | | | |
| | Bombay | E | eP | 21 41 00 | 4310 | Slight. |
| | | NE | eS | 46 41 | | |
| | Port Blair | E | e | 21 41 34 | | Slight. |
| | Dehra Dun | NE | eP | 21 41 42 | 4470 | Slight. Phases not clear. |
| | | | eS | 47 50 | | |
| 06 | Shillong | Z | ePKP | 21 42 14 | | Slight distant. Compression. |

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| | Colombo | E | P | 21 43 33 | | |
| | | | M | 49 57 | | Amp= 0.2 mm. |
| 06 | Bokaro | NE | e | 21 45 37 | | Probably 'S' of a teleseism other phases unidentifiable. |
| 06 | Hyderabad | N | M | 21 52 16 | | Period = 12 secs, Gr. dis= 4 u |
| | | E | M | 21 53 33 | | Period= 18 secs, Gr. dis= 6 u |
| 06 | Calcutta | E | e | 22 44 00 | | Slight. |
| 07 | Shillong | Z | iP | 04 01 57 | | Slight distant. Rarefaction. |
| 07 | Shillong | Z | i | 05 30 00 | | Slight distant. Compression. |
| 07 | Shillong | Z | i | 06 46 26 | | Slight distant. |
| 07 | Shillong | Z | eP | 14 14 53 | 390 | Slight. |
| | | | PP | 15 02 | | |
| | | | Pg | 15 04 | | |
| | | | S | 15 38 | | |
| | | | SS | 15 47 | | |
| | | | Sg | 15 54 | | |
| | | | SSS | 15 58 | | |
| 07 | Shillong | Z | eP | 15 24 26 | | Slight distant. Compression. |
| 07 | Shillong | Z | iPg | 16 11 42 | 110 | Slight. |
| | | | iSg | 11 55 | | |
| 07 | Shilling | Z | iP | 16 26 24 | | Slight distant. Rarefaction. |
| | Chatra | Z | eP | 16 27 01 | | Feeble distant. |
| 07 | Shillong | Z | e | 17 42 51 | | Slight distant. |
| 07 | Shillong | Z | e | 18 28 56 | | Slight distant. |
| 07 | Shillong | Z | eP | 18 52 34 | | Slight distant. Compression. |
| 07 | Shillong | Z | eP | 20 21 43 | | Slight distant. Rarefaction. |
| | Chatra | Z | eP | 20 21 57 | | Feeble, distant. |
| 07 | Shillong | Z | iPg | 23 51 20 | 100 | Slight compression. |
| | | | iSg | 51 32 | | |
| 08 | Shillong | Z | eP | 00 28 36 | | Slight distant. Compression. |
| 08 | Shillong | Z | iP | 01 36 50 | | Slight distant. Rarefaction. |
| 08 | Shillong | Z | iPg | 06 32 37 | 100 | Slight compression. |
| | | | iSg | 32 49 | | |
| 08 | Shillong | Z | iPg | 09 54 23 | | Slight near. |

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| 08 | Shillong | Z | iP | 10 08 20 | | Slight distant. Rarefaction. |
| 08 | Shillong | Z | iP | 10 29 01 | | Slight distant. Rarefaction. |
| 08 | Shillong | Z | iPg P PPP Sg SS SSS | 10 34 49 34 51 34 59 35 03 35 15 35 26 | 120 | Slight rarefaction. |
| 08 | Poona | Z | iP | 11 39 33 | | Feeble, other phases not clear. |
| | Shillong | Z | iP | 11 39 59 | | Slight distant. Compression. |
| 08 | Shillong | Z | e | 11 52 49 | | Slight Tremor. |
| 08 | Shillong | Z | e | 15 44 58 | | Slight Tremor. |
| 08 | Shillong | Z | iP | 19 11 21 | | Slight distant. Compression. |
| 08 | Shillong | Z | iP | 19 19 05 | | Slight distant. Compression. |
| | Chatra | Z | eP | 19 19 42 | | Feeble distant. |
| 08 | Shillong | Z | iPg Sg | 21 30 06 30 14 | 70 | Slight. Rarefaction. |
| 08 | Shillong | Z | iP | 21 45 07 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 21 45 41 | | Feeble distant. |
| 08 | Shillong | Z | iPg iSg | 22 26 09 26 18 | 80 | Slight Compression. |
| | Chatra | Z | iP iS | 00 29 15 30 26 | 670 | Feeble near. |
| | Shillong | Z | iP | 00 30 02 | | Slight distant. Rarefaction. |
| 09 | Shillong | Z | iPg P PP PPP Sg SS SSS | 07 43 33 43 35 43 41 43 44 43 50 44 01 44 14 | 150 | Slight Rarefaction. |
| 09 | Chatra | Z | eP | 08 12 00 | | Feeble distant. |
| | Shillong | Z | eP | 08 12 55 | | Slight distant. Rarefaction. |
| | Bombay | E NE | e e | 08 14 28 14 49 | | Slight and near. |
| 09 | Madras | E | e | 08 18 50 | | Slight distant. Phases indistinct due to microseismic activity. |

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| 09 | Shillong | Z | eP | 11 28 36 | | Slight distant. |
| 09 | Shillong | Z | e | 16 04 34 | | Slight Tremor. |
| 09 | Shillong | Z | iPg iSg | 17 56 05 56 15 | 90 | Slight. Rarefaction. |
| 09 | Shillong | Z | iPg iSg | 19 33 11 33 13 | 20 | Slight. Rarefaction. |
| 09 | Shillong | Z | iPg | 19 38 51 | | Slight Tremor. |
| 09 | Shillong | Z | iPg P PP Sg S SS | 20 34 54 34 55 35 01 35 06 35 10 35 19 | 100 | Slight Compression. |
| 09 | Shillong | Z | eP | 20 41 47 | | Slight distant. Compression. |
| 09 | Shillong | Z | i | 20 53 11 | | Slight distant. Rarefaction. |
| 09 | Shillong | Z | eP | 21 17 18 | | Slight distant. Rarefaction. |
| 09 | Chatra | Z | iP | 21 35 35 | | Feeble distant. Rarefaction. |
| | Shillong | Z | e | 21 35 50 | | Slight Tremor. |
| 09 | Shillong | Z | iPg iSg | 21 42 35 42 37 | 100 | Slight Rarefaction. |
| 09 | Shillong | Z | iPg iSg S | 22 03 04 03 17 03 19 | 110 | Slight. |
| 10 | Shillong | Z | iP | 05 43 12 | | Slight distant. Rarefaction. |
| 10 | Epc:- 19° N 119½° E, Near north coast of Luzon. -H= 06 h. 29 m. 33 s. (USCGS). | | | | | |
| | Shillong | ZNE | iP PPP S LQ ScP M | 06 35 08 36 00 39 26 40 10 42 03 43 19 | 2710 | Slight Rarefaction. |
| 10 | Shillong | Z | e | 10 24 43 | | Slight Tremor. |
| 10 | Shillong | Z | i | 11 57 39 | | Slight Tremor. |
| 10 | Dehra Dun | NE | e i | 13 43 39 45 05 | | Feeble. |
| | Chatra | Z | iP | 13 45 23 | | Feeble distant. |
| | Shillong | Z | iP | 13 46 11 | | Slight distant. Compression. |

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| 10 | Shillong | ZE | iP | 14 02 23 | 4110 | Slight compression. |
| | | | PP | 03 53 | | |
| | | | PcP | 04 27 | | |
| | | | S | 09 09 | | |
| | | | SSS | 11 21 | | |
| | Port Blair | E | e | 14 02 49 | | Slight |
| | | | e | 09 26 | | |
| | Chatra | Z | iP | 14 02 57 | | Feeble distant. Compression. |
| | Poona | Z | eP | 14 04 03 | | Feeble, other phases not clear. |
| | Bombay | E | e | 14 04 09 | | Slight & Deep. |
| | | | e | 07 39 | | |
| 10 | Shillong | Z | iPg | 14 08 20 | 280 | Slight. |
| | | | PP | 08 26 | | |
| | | | PPP | 08 31 | | |
| | | | Sg | 08 53 | | |
| | | | SS | 08 56 | | |
| | | | SSS | 09 07 | | |
| 10 | Shillong | Z | i | 14 23 24 | | Slight Tremor. |
| 10 | Shillong | Z | iPg | 14 58 58 | 90 | Slight. Rarefaction. |
| | | | iSg | 59 09 | | |
| 11 | Chatra | Z | eP | 00 14 22 | | Feeble distant. |
| 11 | Epc:- 36.8 N, 84.5 E, Sinkiang province China, h= about 77 Kms; -H= 01 h. 07 m. 52.8 s. (USCGS). | | | | | |
| | Dehra Dun | NE | e | 01 09 44 | | Slight, phases not clear. |
| | | | i | 10 28 | | |
| | | | i | 11 22 | | |
| | | | i | 12 04 | | Period= 7.5 secs, |
| | Chatra | Z | eP | 01 10 26 | 1600 | Moderate distant. |
| | | NE | eS | 12 57 | | |
| | Bekaro | N | eP | 01 10 41 | | Slight, other phases doubtful. |
| | | E | i | 14 25 | | |
| | Poona | Z | eP | 01 12 14 | 2120 | Slight. |
| | | N | eS | 15 44 | | |
| | | | SS | 16 14 | | |
| | | | M | 18 29 | | |
| | Bombay | E | eP | 01 12 20 | 2270 | Slight. Record overrun |
| | | | eS | 16 04 | | N-S. Comp. |
| | | | M | 20 28 | | Period= 7 secs, |
| | | | | | | Gr.dis= 7 u |
| | Calcutta | E | i | 01 13 52 | | Slight. |
| | | | e | 14 51 | | |
| | | | e | 15 06 | | |
| | | | M | 15 19 | | |

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| Hyderabad | N | e | 01 15 53 | | Slight. Period= 6 secs, Gr.dis= 5 μ Period= 12 secs, Gr.dis= 7 μ | |
| | E | M | 19 17 | | | |
| | N | M | 19 36 | | | |
| Madras | E | e | 01 17 19 | | Slight, distant. Phases could not be identified due to microseism activity. | |
| | | e | 22 45 | | | |
| Port Blair | E | e | 01 17 50 | | Slight. | |
| Kodaikanal | E | e | 01 21 26 | | Tremor. | |
| 11 | Epc:- 1.6 N 126.4 E, Moluccapassage, h= about 52 Kms. -H= 03 h. 18 m. 10.9 s. (USCGS). | | | | | |
| Shillong | ZNE | iP | 03 25 53 | 4280 | Slight compression. | |
| | | PP | 27 29 | | | |
| | | PcP | 27 34 | | | |
| | | S | 31 49 | | | |
| | | SS | 34 41 | | | |
| Chatra | Z | e | 03 26 15 | | Slight. | |
| Port Blair | E | e | 03 26 34 | | Slight. | |
| Dehra Dun | NE | e | 03 27 40 | | Tremor. | |
| Poona | Z | eP | 03 27 43 | | Feeble, other phases not clear. | |
| Bombay | E | eP | 03 27 46 | 6030 | Slight. | |
| | | eS | 35 23 | | | |
| 11 | Shillong | Z | e | 03 31 36 | Slight Tremor. | |
| 11 | Shillong | ZNE | iP | 04 03 26 | 470 | Slight compression. |
| | | | PPP | 03 47 | | |
| | | | LQ | 04 05 | | |
| | | | S | 04 16 | | |
| | | | SS | 04 26 | | |
| | | | SSS | 04 40 | | |
| Tocklai | E | eP | 04 03 42 | | Slight. | |
| | | e | 04 21 | | | |
| Chatra | Z | P | 04 04 24 | 720 | Feeble, near. | |
| | | S | 05 40 | | | |
| Dehra Dun | NE | e | 04 10 27 | | Tremor. | |
| 11 | Dehra Dun | NE | e | 07 41 03 | | Feeble. |
| | | | i | 42 30 | | |
| Chatra | Z | iP | 07 42 42 | 1720 | Feeble distant. | |
| | NE | | 45 35 | | | |

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| | Shillong | Z | iP | 07 | 43 | 28 | | Slight distant. Rarefaction. |
| 11 | Shillong | Z | e | 07 | 47 | 06 | | Slight Tremor. |
| 11 | Shillong | Z | iPg iSg | 08 | 06 | 27 | 310 07 03 | Slight. Rarefaction. |
| 11 | Shillong | Z | i | 09 | 07 | 52 | | Tremor. |
| 11 | Chatra | ZN | Pg Sg | 10 | 59 | 29 | 50 59 35 | Feeble. |
| 11 | Shillong | Z | e | 11 | 54 | 45 | | Slight Tremor. |
| 11 | Shillong | Z | iPg P PP Sg PPP SS | 14 | 37 | 14 | 110 37 16 37 22 37 27 37 50 37 38 | Slight. Rarefaction. |
| 11 | Shillong | Z | e | 17 | 14 | 51 | | Slight Tremor. |
| 11 | Shillong | Z | e | 17 | 36 | 27 | | Slight Tremor. |
| 11 | Shillong | Z | i | 17 | 57 | 15 | | Slight Tremor. |
| 11 | Shillong | Z | iP | 18 | 02 | 18 | | Slight distant. Compression. |
| 11 | Epc:- 15.7 S 166.9 E, New Hebrides Archipelago Region. Mag:- $6\frac{1}{2}$ - $6\frac{1}{2}$ (Pas). -H= 18 h. 53 m. 09.2 s. (USCGS). | | | | | | | |
| | Dehra Dun | NE | e | 19 | 00 | 55 | | |
| | | | e | | 10 | 46 | | |
| | Shillong | ZNE | iP PP PPP SKS ScS PS PFS SSP | 19 | 05 | 29 | 9200 | Compression. |
| | | | | | 09 | 36 | | |
| | | | | | 11 | 09 | | |
| | | | | | 15 | 39 | | |
| | | | | | 16 | 20 | | |
| | | | | | 17 | 33 | | |
| | | | | | 18 | 11 | | |
| | | | | | 22 | 37 | | |
| | Chatra | Z | iP | 19 | 05 | 52 | | Distant. Compression. |
| | Port Blair | E | e | 19 | 05 | 53 | | |
| | Bombay | E | sP sS | 19 | 06 | 34 | 10270 17 36 | |
| 11 | Shillong | Z | iPg PP PPP Sg SS SSS | 19 | 15 | 50 | 130 | Slight Rarefaction. |
| | | | | | 15 | 57 | | |
| | | | | | 16 | 02 | | |
| | | | | | 16 | 06 | | |
| | | | | | 16 | 11 | | |
| | | | | | 16 | 26 | | |

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| 11 | Shillong | Z | iPg iSg | 19 35 22 35 56 | 290 | Slight. |
| 11 | Shillong | Z | i | 19 51 25 | | Slight Tremor. |
| 11 | Chatra | Z | iPg iSg | 22 05 57 06 09 | 100 | Feeble, local |
| 12 | Shillong | Z | iPg PP PPP Sg SS SSS | 14 14 53 14 59 15 05 15 10 15 19 15 26 | 150 | Slight Rarefaction. |
| 12 | Shillong | Z | eP | 14 50 14 | | Slight distant. Rarefaction. |
| 12 | Shillong | Z | e | 16 23 28 | | Slight. |
| | Chatra | Z | iP | 16 24 07 | | Feeble distant. |
| 12 | Chatra | Z ZN | iP iS | 16 45 33 45 54 | 170 | Feeble local. Rarefaction. |
| | Shillong | Z | iP | 16 46 23 | | Slight distant. Compression. |
| 12 | Shillong | Z | iPg PP Sg S SS SSS | 18 20 22 20 30 20 36 20 39 20 48 20 56 | 120 | Slight compression. |
| 12 | Chatra | Z | iP | 18 39 17 | | Feeble distant. Rarefaction. |
| 12 | Shillong | Z | iPg iSg | 19 04 57 05 08 | 90 | Slight. |
| 12 | Shillong | Z | iPg iSg | 19 44 16 44 47 | 270 | Slight, Impulsive. |
| 12 | Shillong | Z | e | 19 50 30 | | Slight Tremor. |
| 12 | Shillong | Z | iPg P Sg PPP SS SSS | 20 26 09 26 13 26 17 26 26 26 33 26 45 | 70 | Slight. |
| | Chatra | Z | i i | 20 27 12 27 58 | | Feeble distant probably diff. shocks in quick succession. |
| 12 | Shillong | Z | eP | 21 18 41 | | Slight distant. Rarefaction. |
| 12 | Chatra | Z | eP? | 06 02 28 | | Very feeble, toehr phases not clear; probably distant. |

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13 Epc: 52.1 S 160.9 E, Macquarie islands,
 h= about 29 Kms., -H= 07 h. 36 m. 13.8 s.
 Mag: 7 $\frac{1}{2}$ (Pas), 7 (Pal) (U.S.C.G.S)

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| | Madras | E | PKP? | 07 | 46 | 42 | | Distant. |
| | Port Blair | N | iP iS | 07 | 49 | 20 | 9500 | |
| | Shillong | ZNE | eP | 07 | 49 | 41 | 10250 | |
| | | | PP | | 53 | 37 | | |
| | | | PPP | | 55 | 37 | | |
| | | | SKS | | 59 | 46 | | |
| | | | SKKS | 08 | 00 | 15 | | |
| | | | PS | | 02 | 11 | | |
| | | | SS | | 07 | 11 | | |
| | | | SSP SS | | 07 11 | 33 11 | | |
| | Colombo | E | P | 07 | 49 | 50 | | |
| | | | e | 08 | 00 | 40 | | |
| | | | e | | 13 | 55 | | |
| | | | L | | 26 | 20 | | |
| | | | M | | 34 | 05 | | Amp:= 1.6 m.m. |
| | Chatra | Z N | eP | 07 | 50 | 34 | 10050 | Distant. |
| | | | ePP | | 54 | 05 | | |
| | | | PPP | | 56 | 09 | | |
| | | | SKS ₁ | 08 | 01 | 03 | | |
| | | | S | | 01 | 28 | | |
| | | | PS | | 02 | 33 | | |
| | | | PPS | | 03 | 05 | | |
| | | | SSS? | | 11 | 01 | | |
| | | | LQ | | 14 | 52 | | |
| | | | LR M | | 19 26 | 19 27 | | No well developed M phase. |
| | Hyderabad | N | eP | 07 | 50 | 34 | 10880 | |
| | | | PP | | 54 | 32 | | |
| | | | SKS ₂ | 08 | 01 | 26 | | |
| | | | eS | | 01 | 58 | | |
| | | | PS | | 03 | 23 | | |
| | | | PPS | | 04 | 17 | | |
| | | | SS | | 08 | 47 | | |
| | | | LQ | | 18 | 08 | | |
| | | | LR M | | 23 28 | 00 08 | | Period= 18 secs, Gr.dis= 14 μ |
| | Poona | Z N | ePKP ₁ | 07 | 50 | 37 | 14320 | Phases doubtful. |
| | | | iSS? | 08 | 09 | 55 | | |
| | Bombay | E | e | 07 | 50 | 54 | 11950 | Record lost in MS NS component. |
| | | | ePKP ₁ | | 54 | 28 | | |
| | | | eSS | 08 | 10 | 05 | | |

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| | | | | | |
|------------|--|-------------------|----------|----------|---|
| Bokaro | NE | ePKP ₁ | 07 51 07 | 12550 | Very distant. |
| | N | iPKS ₁ | 54 43 | | |
| | | SKS ₁ | 57 53 | | |
| | | SKKS | 59 54 | | |
| | | PS | 08 02 56 | | |
| | | PPS | 04 22 | | |
| Kodaikanal | E | e | 07 53 59 | | Phases not clear. |
| | | e | 08 02 57 | | |
| | | e | 03 39 | | |
| | | e | 07 39 | | |
| | | e | 10 48 | | |
| | | e | 12 33 | | |
| | | M | 22 00 | | |
| | | | | | Period= 15 secs, Gr. dis= 9.6 μ |
| Dehra Dun | NE | e | 07 55 55 | | Phases not clear. |
| | | i | 08 03 04 | | |
| 13 | Shillong | Z | iP | 09 30 42 | Slight distant. |
| 13 | Shillong | Z | iPg | 09 59 08 | Slight. |
| | | | iSg | 59 20 | |
| 13 | Epc:- 27.7 N 142.4 E, Bonin Islands region. h= about 28 Km; -H= 10 h 05 m. 24.3 s. (USCGS). | | | | |
| Shillong | ZNE | eP | 10 13 41 | 4860 | Moderate, compression. |
| | | PcP | 15 16 | | |
| | | PP | 15 25 | | |
| | | FPP | 16 03 | | |
| | | ScP | 18 57 | | |
| | | S | 20 12 | | |
| | | FPS | 20 29 | | |
| | | SS | 23 29 | | |
| | | LQ | 24 14 | | |
| | | LR | 26 22 | | |
| | | M | 30 15 | | |
| Chatra | Z | eP | 10 14 12 | 5520 | Slight. |
| | N | ePcP? | 15 23 | | |
| | Z | e | 15 36 | | |
| | N | eS | 21 21 | | |
| | | M | 26 - | | |
| | | | | | Period= 15 secs, Gr. dis= 8.7 μ |
| Dehra Dun | NE | eP | 10 15 02 | 6160 | Slight, phases not clear. |
| | | iS | 22 46 | | |
| Poona | Z | iP | 10 15 47 | 7830 | Moderate, phases observed by M waves from the previous shock. |
| | N | eS | eS 24 59 | | |
| Bombay | E | e | 10 16 11 | | Slight. |
| | | e | 24 34 | | |

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| 13 | Shillong | Z | i | 12 49 53 | | Slight Tremor. |
| 13 | Shillong | Z | e | 16 36 52 | | Tremor. |
| 13 | Shillong | Z | iPg PP Sg SS SSS | 16 46 00 46 06 46 24 46 32 46 44 | 200 | Slight Compression. |
| 13 | Vizianagram | NE | iPg | 18 44 26 | | Local Tremor. |
| 13 | Shillong | Z | iPg P PPP Sg SS SSS | 19 15 46 15 50 15 58 16 14 16 21 16 31 | 230 | Slight compression. |
| 13 | Shillong | Z | iPg iS | 19 40 08 40 30 | | Slight Rarefaction. |
| 13 | Shillong | Z | i | 20 48 08 | | Slight Tremor. |
| 13 | Shillong | Z | e | 21 27 00 | | Tremor. |
| 13 | Shillong | Z | e | 21 55 49 | | Tremor. |
| 13 | Shillong | Z | e | 22 13 58 | | Tremor. |
| 14 | Dehra Dun | NE N | eP PP iS PPS SS SSS LR M | 00 00 43 02 42 08 04 08 35 11 22 13 12 15 17 19 09 | 5740 | Moderate Period= 9 secs. |
| 14 | Shillong | Z | e | 00 33 02 | | Slight Tremor. |
| 14 | Shillong | ZNE | eP PP PPP S SKS ScS PS PPS SSS LQ | 01 09 29 12 37 14 33 19 27 19 38 19 47 20 27 20 51 28 27 31 59 | 8750 | Moderate, compression. |
| | Bombay | E | e e | 01 14 50 21 24 | | Slight. |
| 14 | Shillong | Z | e | 02 58 40 | | Slight tremor. |
| 14 | Shillong | Z | eP | 04 08 48 | | Slight distant. Compression. |

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| 14 | Shillong | Z | iP | 04 46 35 | | Slight distant. Rarefaction. |
| 14 | Shillong | Z | iPg | 08 30 31 | 200 | Slight compression. |
| | | | PP | 30 37 | | |
| | | | PPP | 30 43 | | |
| | | | Sg | 30 54 | | |
| | | | SS | 31 02 | | |
| | | | SSS | 31 12 | | |
| | Chatra | Z | eP | 08 30 36 | | Feeble distant. |
| 14 | Shillong | Z | eP | 10 42 53 | | Slight distant. Compression. |
| 14 | Shillong | Z | eP | 17 51 33 | | Slight distant. Rarefaction. |
| 14 | Chatra | Z | iP | 50 58 56 | | Feeble distant. Rarefaction. |
| | Shillong | Z | e | 20 59 41 | | Slight tremor. |
| 14 | Shillong | Z | e | 22 37 04 | | Tremor. |
| 14 | Epc:- Lat 2.8 N 126.8 E, Molucca passage | | | | | |
| 15 | NW of Halmahra, h= 150 Kms. | | | | | |
| | -H= 23 h. 51 m. 35 s. (Shillong) | | | | | |
| | 2.9 N 126.5 E, h= about 77 Kms. | | | | | |
| | -H= 23 h. 51 m. 28.6 s., Mag = 6 $\frac{3}{4}$ (Pas & Berk). (USCGS). | | | | | |
| | Port Blair | E | iP | 23 58 16 | 3670 | |
| | | | eP | 58 32 | | |
| | | | i | 00 03 03 | | |
| | | | iS | 03 34 | | |
| | | | SS | 04 59 | | |
| | Shillong | ZNE | iP | 23 58 40 | 4140 | Compression. |
| | | | PP | 00 00 11 | | |
| | | | PPP | 00 41 | | |
| | | | S | 04 28 | | |
| | | | SS | 07 18 | | |
| | | | SSS | 07 56 | | |
| | | | ScS | 08 28 | | |
| | | | LR | 09 26 | | |
| | | | M | 12 38 | | Period= 13 secs, Gr.dis= 6.5 μ |
| | Bokaro | NE | iP | 23 59 33 | 4670 | Probable depth 200 Kms. |
| | | N | PcP | 00 01 18 | | Initial Gr. motion NW. |
| | | | PPP | 01 52 | | |
| | | | iS | 05 54 | | |
| | | | SS | 07 30 | | |
| | | | LQ | 09 18 | | |
| | | | LR | 11 22 | | |
| | Chatra | ZNE | e | 23 59 34 | 4710 | Distant. Compression. |
| | | NE | PcP | 00 01 12 | | |
| | | | PP | 01 29 | | |
| | | | PPP | 01 49 | | |
| | | ZNE | i? | 00 05 09 | | Probably 'P' of a 2nd shock. |
| | | NE | eS | 05 07 | | |

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Chatra(Contd...)

| | | | | | | |
|-------------|----|-----|----|----|----|----------------------------------|
| | | PS | 06 | 00 | | |
| | | PPS | 06 | 08 | | |
| | | SS | 09 | 03 | | |
| | | ScS | 09 | 15 | | |
| | | i? | 00 | 09 | 18 | Probably 'S' of a 2nd shock. |
| | | LQ | 09 | 18 | | |
| | | SSS | 10 | 04 | | |
| | | LR | 11 | 54 | | |
| | | M | 15 | - | | |
| Colombo | E | P | 23 | 59 | 48 | |
| | | e | | 02 | 50 | |
| | | L | 00 | 06 | 31 | |
| | | M | | 07 | 11 | Amp= 2.0 m.m. |
| Madras | E | iP | 23 | 59 | 54 | 5290 |
| | | PP | 00 | 01 | 45 | Initial Gr.Motion-W. |
| | | PPP | | 02 | 33 | |
| | | iS | | 06 | 35 | |
| | | sS | | 07 | 13 | |
| | | SS | | 10 | 12 | |
| Hyderabad | EN | iP | 00 | 00 | 15 | 5210 |
| | E | PP | | 02 | 12 | Initial Gr.Motion W.&.N. |
| | | PPP | | 02 | 33 | |
| | EN | iS | | 07 | 06 | |
| | E | ScS | | 09 | 54 | |
| | | SS | | 10 | 21 | |
| | | LQ | | 11 | 18 | |
| | | LR | | 13 | 31 | |
| | N | LR | | 13 | 54 | |
| | E | M | | 15 | 48 | Period= 18 secs, Gr.dis= 13 u |
| | N | M | | 16 | 30 | Period= 12 secs, Gr.dis= 5 u |
| Poona | Z | iP | 00 | 00 | 43 | 5760 |
| | E | PP | | 02 | 48 | |
| | | PPP | | 03 | 47 | |
| | | iS | | 08 | 05 | |
| | | PPS | | 08 | 23 | |
| | | SS | | 11 | 39 | |
| | | SSS | | 13 | 17 | |
| | | LR | | 15 | 44 | |
| Bombay | NE | eP | 00 | 00 | 52 | 5830 |
| | E | e | | 01 | 22 | |
| | | PP | | 03 | 00 | |
| | | PPP | | 04 | 00 | |
| | NE | eS | | 08 | 18 | |
| | N | PS | | 08 | 24 | |
| | NE | e | | 09 | 02 | |
| | | ScS | | 10 | 30 | |
| | E | SS | | 12 | 05 | |
| 15 Shillong | Z | iPg | 03 | 19 | 48 | 120 |
| | | iSg | | 20 | 02 | Slight. |

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|----------------------|-----------|-----------|---|--|-----------------|---------------------------------|
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| 15 | Shillong | Z | e | 04 16 11 | | Slight tremor. |
| 15 | Shillong | Z | eP | 04 49 26 | | Slight distant. Compression. |
| 15 | Shillong | Z | e | 05 12 44 | | Tremor. |
| 15 | Shillong | Z | iP | 10 40 40 | | Slight distant. |
| 15 | Shillong | Z | e | 11 56 39 | | Slight tremor. |
| 15 | Chatra | Z | eP | 12 15 31 | | Feeble, near, phases not clear. |
| | Shillong | Z | iP | 12 15 50 | | Slight distant. Compression. |
| 15 | Chatra | Z | iPg iSg | 13 47 35 47 48 | 100 | Feeble, local compression. |
| 15 | Dehra Dun | NE N | e i i | 14 05 47 07 44 08 58 | | Feeble |
| | Shillong | Z | e | 14 07 07 | | Tremor. |
| | Chatra | Z | eP | 14 07 37 | | Feeble distant. |
| 15 | Shillong | Z | iP | 14 08 24 | | Slight distant. Rarefaction. |
| 15 | Chatra | Z | eP | 14 10 54 | | Feeble distant. |
| 15 | Shillong | Z | eP | 18 47 55 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 18 48 33 | | Feeble distant. Rarefaction. |
| 15 | Shillong | Z | e | 19 01 39 | | Slight tremor. |
| | Chatra | Z | iP | 19 01 52 | | Feeble distant. Rarefaction. |
| 15 | Shillong | Z | i | 21 47 09 | | Tremor. |
| 15 | Shillong | ZNE NE | iPg iSg PPP SS SSS | 22 06 50 06 55 07 03 07 14 07 24 | 50 | Locally felt, slight. |
| | Chatra | ZN ZE | iP PP PPP S SS SSS Sg/M | 22 07 35 07 42 07 49 08 33 08 42 08 51 08 58 | 550 | Feeble near rarefaction. |
| 16 | Shillong | Z | e | 01 31 43 | | Slight tremor. |
| 16 | Shillong | Z | i | 03 12 50 | | Tremor. |
| 16 | Shillong | Z | iP | 05 18 07 | | Slight distant. Rarefaction. |

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|---|-------------|--------|------------------------------|--|-----------------|---------------------------------|
| <u>December 1960</u> | | | | | | |
| 16 | Shillong | Z | i | 05 25 45 | | Tremor. |
| 16 | Shillong | Z | e | 09 05 32 | | Distant. Tremor. |
| 16 | Chatra | Z | iP iSg | 11 54 36 54 53 | 130 | Feeble Rarefaction. |
| | Shillong | Z | i | 11 55 38 | | Slight tremor. |
| 16 | Shillong | Z | i | 13 05 10 | | Slight tremor. |
| 16 | Shillong | Z | iPg PP PPP Sg SS | 16 43 02 34 08 34 15 34 18 34 29 | 130 | Slight. |
| 16 | Chatra | Z | ePg eSg | 16 54 52 55 06 | 130 | Feeble near. |
| Epc:- 13.6 N 42.3 E Near Coast of Eritrea. | | | | | | |
| h= about 25 Kms; -H= 16 h. 49 m. 07.9 s. (USCGS). | | | | | | |
| | Bombay | E | eP eS | 16 55 19 17 00 17 | 3330 | Slight. |
| | Poona | Z | eP | 16 55 26 | | Feeble, other phases not clear. |
| | Chatra | Z | iF | 16 56 16 | | Feeble distant. |
| | Dehra Dun | NE | e i i | 16 56 20 02 05 06 31 | | Feeble. |
| | Madras | E | e e | 16 56 26 57 50 | | Slight. |
| | Shillong | Z | eP | 16 57 49 | | Slight distant. Rarefaction. |
| 16 | Chatra | Z | eP | 17 52 09 | | Feeble distant. |
| 16 | Shillong | Z | iPg Sg | 18 58 01 58 36 | 300 | Slight. |
| 16 | Shillong | Z | iPg iSg | 20 18 44 19 12 | 230 | Slight. |
| 16 | Chatra | Z | iPg Sg | 21 20 53 21 07 | 120 | Feeble near. Rarefaction. |
| 16 | Shillong | Z | i | 21 22 09 | | Tremor. |
| 16 | Vizianagram | NE | iPg | 22 05 06 | | Slight. |
| 16 | Shillong | Z | iP | 22 20 55 | | Slight distant. |
| 17 | Shillong | Z | i | 02 26 06 | | Slight Tremor. |
| 17 | Dehra Dun | NE | e | 03 36 43 | | Tremor. |

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|----------------------|--|--------------------|---|--|----------|--|
| <u>December 1960</u> | | | | | | |
| 17 | Epc:- 8 S 108 E, Java Islands, h= 300 Kms. - H= 10 h. 37 m. 15 s. (Shillong). | | | | | |
| | Port Blair | N | iP i | 10 42 11 43 03 | | Slight. |
| | Calcutta | E | eP iS | 10 43 48 49 06 | 3670 | Slight. |
| | Tocklai | E | eP i | 10 43 54 49 03 | | Slight distant. |
| | Shillong | ZNE | iP P PP S sS SS | 10 43 56 44 53 45 34 49 15 51 06 52 22 | 3680 | Distant. Compression. Period= 11 secs, Gr.dis= 2.5 μ |
| | Chatra | ZNE | P pP S sS | 10 44 21 45 18 49 57 51 38 | 4220. | Moderate, distant h=200 Kms. |
| | Poona | Z E | iP iS PPS SS SSS ScS LR | 10 44 48 50 51 50 59 53 32 54 17 54 39 55 45 | 4370 | Slight. |
| | Colombo | E | e e M | 10 44 56 48 15 59 00 | | Amp= 0.1 mm. |
| | Bokaro | NE | iP e PcP i iS | 10 45 04 45 47 47 01 49 39 51 22 | 4610 | Moderate, probably deep focus. Initial Gr.Motion - SE |
| | Madras | ? | e e | 10 45 07 48 51 | | Slight. phases indistinct. |
| | Bombay | E NE E NE | e e e eS e | 10 45 12 47 33 48 34 51 00 52 49 | | Slight. |
| | Dehra Dun | NE N | eP iS SS SSS LR M | 10 45 26 51 54 54 47 55 44 57 15 11 01 05 | 4810 | Slight. |

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| <u>December 1960</u> | | | | | | |
| | Port Blair | N | e i | 10 46 14 52 40 | | Slight. |
| | Hyderabad | N E N | e M M | 10 49 42 52 59 53 02 | | Slight. Period= 9 secs, Gr.dis= 4 μ Period= 9 secs, Gr.dis= 3 μ |
| 17 | Shillong | Z | eP | 13 33 58 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 13 34 30 | | Feeble distant. Compression. |
| 17 | Chatra | Z | ePg eSg | 15 50 41 50 51 | 90 | Feeble local. |
| 17 | Shillong | Z | i | 16 52 25 | | Tremor. |
| 17 | Shillong | Z | iP | 16 54 02 | | Slight distant. Compression. |
| | Chatra | Z | iP | 16 54 19 | | Feeble distant. |
| | Dehra Dun | NE | e | 16 54 49 | | Tremor. |
| | Poona | Z | eP | 16 55 56 | | Tremor. |
| 17 | Shillong | Z | e | 17 57 45 | | Slight. |
| 17 | Shillong | Z | iP | 19 15 16 | | Distant. Rarefaction. |
| 17 | Shillong | Z | eP | 20 02 03 | | Slight distant. Rarefaction. |
| 17 | Shillong | Z | iP | 20 13 16 | | Slight distant. Rarefaction. |
| 17 | Shillong | Z | iP | 21 22 33 | | Slight distant. |
| | Chatra | Z | ePg | 21 23 24 | | Feeble distant. |
| 17 | Shillong | Z | i | 22 21 33 | | Tremor. |
| 18 | Shillong | Z | i | 02 38 06 | | Tremor. |
| 18 | Shillong | Z | iPg P PP Sg PPP | 03 08 23 08 26 08 31 08 34 08 39 | 90 | Slight. |
| 18 | Shillong | Z | eP | 05 23 45 | | Slight distant. Compression. |
| 18 | Shillong | Z | e | 07 43 42 | | Slight tremor. |
| 18 | Shillong | Z | e | 10 55 06 | | Tremor. |
| 18 | Shillong | Z | iP Pg PP PPP S Sg SS SSS | 12 17 27 17 30 17 36 17 39 17 52 17 55 18 02 18 12 | 220 | Slight. Compression. |

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| 18 | Shillong | Z | e | 12 51 32 | | Tremor. |
| 18 | Chatra | Z | iP | 15 49 50 | | Feeble Rarefaction. |
| 18 | Shillong | Z | iPg | 16 07 16 | 120 | Slight Rarefaction. |
| | | | PP | 07 24 | | |
| | | | PPP | 07 30 | | |
| | | | Sg | 07 31 | | |
| | | | SS | 07 46 | | |
| 18 | Epc:- 8 N 126 E, Mindanao, Philippines. -H= 18 h. 20 m. 40 s. (Shillong). 8½ N 125.9 E, h about 36 Kms. -H= 18 h. 20 m. 43.3 s. (USCGS). | | | | | |
| | Shillong | ZNE | iP | 18 27 49 | 4100 | Slight compression. |
| | | | PP | 29 13 | | |
| | | | PPP | 29 39 | | |
| | | | S | 33 34 | | |
| | | | ScP | 33 41 | | |
| | | | LQ | 36 01 | | |
| | | | SSS | 36 25 | | |
| | | | LR | 37 53 | | |
| | | | M | 40 43 | | |
| | Calcutta | E | eP | 28 22 | | Slight. |
| | | | i | 30 02 | | |
| | | | e | 34 08 | | |
| | | | e | 36 41 | | |
| | Chatra | Z NE | eP | 18 28 26 | 4720 | Feeble distant. |
| | | | eS | 34 49 | | |
| | Bokaro | E | iP | 18 28 31 | 4550 | Moderate, other phases unidentifiable. |
| | | N | iS | 34 44 | | |
| | Port Blair | E | e | 18 28 38 | | Slight. |
| | Dehra Dun | NE | eP | 18 29 43 | 5640 | Slight. |
| | | | PPP | 32 52 | | |
| | | | iS | 36 59 | | |
| | | | SS | 40 34 | | |
| | | | SSS | 42 04 | | |
| | | | LR | 44 58 | | |
| | | | M | 48 46 | | |
| | Colombo | E | e | 18 29 51 | | Amp= 0.1 mm. |
| | | | e | 35 51 | | |
| | | | L | 46 21 | | |
| | | | M | 52 36 | | |
| | Poona | Z N | eP | 18 29 51 | 5800 | Slight. |
| | | | eS | 37 15 | | |
| | | | PFS | 37 30 | | |
| | | | ScS | 39 33 | | |
| | | | SS | 41 03 | | |
| | | | LQ | 43 01 | | |
| | | | LR | 45 33 | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | △ Km. | Remarks. |
|---------------|-----------|--------|-------|----------------------|----------|---------------------------------|
| December 1960 | | | | | | |
| | Bombay | E | eP | 18 29 55 | 5870 | Slight. |
| | | | PP | 32 00 | | |
| | | | PPP | 34 00 | | |
| | | NE | eS | 37 25 | | |
| | | E | PS | 37 36 | | |
| | Hyderabad | N | M | 18 50 59 | | Period= 15 secs, Gr.dis= 4 u |
| | | E | M | 51 02 | | Period= 15 secs, Gr.dis= 4 u |
| 18 | Shillong | Z | iPg | 19 03 42 | 260 | Slight. |
| | | | PP | 03 46 | | |
| | | | Sg | 04 12 | | |
| | | | SS | 04 18 | | |
| | | | SSS | 04 27 | | |
| 18 | Shillong | Z | e | 19 11 54 | | Tremor. |
| 18 | Shillong | Z | iPg | 19 32 23 | 80 | Slight. |
| | | | iSg | 32 32 | | |
| 18 | Chatra | Z | eP | 19 49 00 | | Feeble near. |
| 18 | Shillong | Z | i | 20 43 46 | | Slight. |
| 18 | Shillong | Z | eP | 21 05 23 | | Distant. Compression. |
| 18 | Shillong | Z | iP | 22 23 42 | 280 | Slight. Rarefaction. |
| | | | PP | 23 46 | | |
| | | | PPP | 23 53 | | |
| | | | S | 24 15 | | |
| | | | Sg | 24 22 | | |
| | Chatra | Z | iP | 22 24 39 | 830 | Feeble, Rarefaction. |
| | | | eS | 26 05 | | |
| 19 | Chatra | Z | eP | 00 05 18 | | Feeble distant. |
| | Shillong | Z | iP | 00 06 11 | | Slight compression. |
| 19 | Chatra | Z | eP | 00 08 13 | | Feeble distant. |
| 19 | Shillong | Z | eP | 07 11 23 | | Distant. Rarefaction. |
| 19 | Shillong | Z | i | 07 24 55 | | Slight Tremor. |
| 19 | DehraDun | NE | e | 08 35 19 | | Feeble. |
| | | | i | 35 33 | | |
| 19 | Shillong | Z | e | 10 16 48 | | Tremor. |
| 19 | Shillong | Z | iP | 10 56 12 | 290 | Slight compression. |
| | | | PP | 56 18 | | |
| | | | PPP | 56 25 | | |
| | | | Sg | 56 47 | | |
| | | | SS | 56 57 | | |

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| 19 | Shillong | Z | i | 13 04 04 | | Tremor. |
| 19 | Shillong | Z | i | 13 37 18 | | Tremor. |
| 19 | Shillong | Z | e | 13 41 41 | | Slight distant. Rarefaction |
| 19 | Shillong | Z | eP | 14 44 11 | | Slight Rarefaction. |
| 19 | Shillong | Z | eP | 14 54 57 | | Slight distant. |
| 19 | Shillong | Z | eP | 17 08 48 | | Slight distant. Rarefaction |
| 19 | Chatra | Z | eP | 17 10 37 | | Feeble distant. |
| 19 | Shillong | Z | e | 18 45 27 | | Tremor. |
| 19 | Shillong | Z | eP | 19 06 59 | | Slight distant. |
| 19 | Chatra | Z | iP | 19 08 56 | | Feeble distant. |
| 19 | Vizianagram | E | iPg | 21 09 52 | | Slight. |
| 19 | Shillong | Z | e | 21 24 52 | | Slight. Rarefaction. |
| 19 | Shillong | Z | eP | 22 22 47 | | Slight distant. Rarefaction |
| 20 | Shillong | Z | iPg iSg | 13 38 35 38 42 | 70 | Slight. |
| 20 | Shillong | Z | e | 14 56 45 | | Tremor. |
| 20 | Shillong | Z | e | 16 56 34 | | Tremor. |
| 20 | Shillong | Z | e | 17 41 57 | | Slight Tremor. |
| 20 | Shillong | Z | e | 18 02 38 | | Slight Tremor. |
| 20 | Shillong | Z | iP | 20 48 51 | | Slight distant. Rarefaction |
| 20 | Shillong | Z | e | 22 09 49 | | Slight distant. Rarefaction |
| 20 | Shillong | Z | e | 22 30 35 | | Tremor. |
| 20 | Shillong | Z | iP | 23 11 51 | | Slight distant. Rarefaction. |
| 21 | Shillong | Z | iP | 00 01 12 | | Slight distant. Compression |
| | Chatra | Z | iP | 00 01 42 | | Very feeble, probably distant. other phases not clear. |
| 21 | Chatra | Z ZN | iPg/P Sg S | 04 56 38 56 44 56 46 | 130 | Feeble local |
| 21 | Dehra Dun | NE | e | 10 33 37 | | Tremor. |
| 21 | Shillong | Z | iP | 14 27 32 | | Tremor. |

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| 21 | Epc:- 61.6 N 152.3 W, Alaska. Mag:- $5\frac{3}{4}$ (Pas), h about 169 Kms. -H= 14 h. 40 m. 01.6 s. (USCGS). | | | | | | |
| | Shillong | Z | i | 14 51 51 | | Distant. | |
| | Chatra | Z | i | 14 51 55 | | Distant. Compression. | |
| | | NE | e | 15 01 47 | | | |
| | Dehra Dun | NE | e | 14 52 25 | | | |
| | | | e | 15 01 48 | | | |
| 21 | Dehra Dun | NE | e | 19 53 48 | | Feeble. | |
| 21 | Shillong | Z | eP | 21 02 33 | | Slight. Rarefaction. | |
| | Chatra | Z | iP | 21 03 05 | | Very feeble, compression probably distant, other phases not clear. | |
| 22 | Shillong | Z | iP | 00 38 34 | | Slight distant. | |
| 22 | Epc:- 8.5 N 95 E (Nicobar Islands Region. -H= 03 h. 02 m. 10 s.(Shillong). 9.8 N 94.2 E, h about 60 Kms. Nicobar Islands. -H= 03 h. 02 m. 29.2 s (USCGS). | | | | | | |
| | Port Blair | E | iP | 03 03 13 | 390 | Slight. | |
| | | | iS | 03 53 | | | |
| | Madras | E | iP | 03 05 44 | 1500 | Slight near. Initial Ground Motion - W. | |
| | | | PP | 05 53 | | | |
| | | | PPP | 06 02 | | | |
| | | | iS | 08 16 | | | |
| | | | M | 09 47 | | | |
| | Colombo | E | P | 03 05 47 | | Amp= 0.6 mm. | |
| | | | L | 09 16 | | | |
| | | | M | 11 36 | | | |
| | Shillong | ZNE | iP | 03 06 13 | 1950 | Slight. Compression. | |
| | | | PP | 06 27 | | | |
| | | | PPP | 06 38 | | | |
| | | | S | 09 27 | | | |
| | | | SS | 09 45 | | | |
| | | | SSS | 10 01 | | | |
| | | | M | 11 33 | | | |
| | Bokaro | N | i | 03 06 16 | | Slight, other phases not clearly developed. | |
| | | | iS | 09 24 | | | |
| | Hyderabad | E | iP | 03 06 23 | 2010 | Slight. Initial Gr. motion - W & N. Period=23 sec.Gr.dis=12 μ Period=18 sec.Gr.dis= 8 μ . | |
| | | | N | eS | 09 43 | | |
| | | | SS | 10 17 | | | |
| | | | LR | 10 47 | | | |
| | | | M | 11 59 | | | |
| | | | E | M | 13 26 | | |

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| | Tocklai | E | eP | 03 06 31 | | Slight distant. | | |
| | Chatra | ZNE | iP | 03 06 43 | 2210 | Slight distant. | | |
| | | | PP | 06 59 | | | | |
| | | | PPP | 07 11 | | | | |
| | | | S | 10 21 | | | | |
| | | | SS | 10 53 | | | | |
| | | | SSS | 11 05 | | | | |
| | | | LR | 12 27 | | | | |
| | | M | 13 - | | | | | |
| | Calcutta | E | e | 03 06 46 | | Slight. | | |
| | | | e | 08 15 | | | | |
| | | | i | 08 46 | | | | |
| | | | i | 11 51 | | | | |
| | Poona | Z | eP | 03 07 13 | 2510 | Slight. | | |
| | | | iS | 11 17 | | | | |
| | | | LQ | 12 05 | | | | |
| | | | SS | 12 11 | | | | |
| | | | LR | 13 01 | | | | |
| | | | M | 14 58 | | | | |
| | Bombay | NE | eP | 03 07 27 | 2680 | Slight. | | |
| | | | E | PP | | | 08 00 | |
| | | | eS | 11 40 | | | | |
| | | | LQ | 12 00 | | | | |
| | | | SSS | 14 37 | | | | |
| | | | M | 17 00 | | | | |
| | | N | M | | | | 23 43 | Period= 15 secs, Gr.dis= 3 μ Period= 15 secs, Gr.dis= 2 μ |
| | | | | | | | | |
| | DehraDun | NE | eP | 03 07 55 | 2790 | Slight. | | |
| | | | N | PP | | | 08 34 | |
| | | | | iS | | | 12 18 | |
| | | | | LQ | | | 13 08 | |
| | | | | SSS | | | 13 40 | |
| | | | | LR | | | 14 31 | |
| | | | | M | | | 16 34 | |
| 22 | Shillong | Z | eP | 03 18 24 | | Slight distant. Rarefactio | | |
| 22 | Poona | Z | eP | 04 06 54 | | Feeble, other phases not clear. | | |
| | Shillong | Z | eP | 04 07 13 | | Slightdistant.Rarefaction. | | |
| 22 | Shillong | Z | i | 11 33 18 | | Slight Tremor. | | |
| 22 | Shillong | Z | iPg | 13 55 21 | 190 | Slight. | | |
| | | | iSg | 55 43 | | | | |
| 22 | Bombay | E | e | 14 34 37 | | Slight and distant. | | |
| | | | e | 43 25 | | | | |
| | | NE | M | 15 26 - | | | | |
| | Poona | Z | e | 14 39 28 | | Tremor. | | |

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| 22 | Shillong | Z | i | 17 49 25 | | Slight tremor. |
| Epc:- 8.5 s 146.5 E, New Guinea Island. | | | | | | |
| -H= 21 h. 02 m. 35 s. (Shillong) | | | | | | |
| 6.8 S 155.3 E, Solomon Island, h about 469 Kms. | | | | | | |
| -H= 21 h. 02 m. 41.1 s ; Mag: 5½(Pal) (USCGS). | | | | | | |
| | Port Blair | E | e | 21 12 44 | | Slight. |
| | Shillong | ZNE | iP | 21 13 07 | 7070 | Slight Rarefaction. |
| | | | PP | 15 31 | | |
| | | | PPP | 17 01 | | |
| | | | PcS | 17 39 | | |
| | | NE | iS | 21 41 | | |
| | | | PS | 21 57 | | |
| | | | PPS | 22 11 | | |
| | | | ScS | 22 47 | | |
| | | | SS | 25 47 | | |
| | | | SSS | 28 23 | | |
| | | | LR | 31 10 | | |
| | Calcutta | E | e | 21 13 25 | | Slight. |
| | | | i | 22 05 | | |
| | | | i | 22 45 | | |
| | Chatra | ZNE | iP | 21 13 34 | 7530 | Slight distant. |
| | | | PeP | 13 49 | | |
| | | | PP | 16 21 | | |
| | | | PS/ScS | 23 08 | | |
| | | | PPS | 23 25 | | |
| | | | eSS | 27 11 | | |
| | | | SSS | 30 17 | | |
| | | | LR | 35 00 | | |
| | | | M | 41 42 | | |
| | Bokaro | NE | i | 21 13 36 | | Moderate. |
| | | N | iS | 22 35 | | |
| | Colombo | E | P | 21 13 49 | 7790 | |
| | | | S | 23 00 | | |
| | Madras | E | iP | 21 13 54 | | Slight. Initial ground motion - E. |
| | Hyderabad | E | eP | 21 14 02 | 8100 | Slight. |
| | | | iS | 23 29 | | |
| | | | SS | 28 36 | | |
| | | | LR | 35 58 | | |
| | | | M | 40 44 | | Period= 15 secs, Gr.dis =2 μ |
| | Dehra Dun | NE | eP | 21 14 22 | 8290 | Slight. |
| | | N | PP | 16 55 | | |
| | | | iS | 23 58 | | |
| | | | SS | 28 29 | | |
| | | | SSS | 31 49 | | |
| | | | LQ | 33 48 | | |
| | | | M | 43 50 | | |

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|----------------------|--|--------|-------|----------------------|-----------------|---|
| <u>December 1960</u> | | | | | | |
| | Poona | Z | iP | 21 14 27 | 8430 | Slight. |
| | | N | iS | 24 10 | | |
| | | | SS | 29 09 | | |
| | | | SSS | 32 20 | | |
| | | | LQ | 34 41 | | |
| | Bombay | NE | eP | 21 14 30 | 8490 | Slight. Depth 400 Kms.approx. |
| | | E | e | 18 00 | | |
| | | NE | eS | 24 15 | | |
| | | | SS | 27 09 | | |
| 22 | Shillong | Z | eP | 21 40 35 | | Slight distant. |
| 23 | Shillong | Z | iPg | 00 26 40 | 50 | Slight. |
| | | | iSg | 26 45 | | |
| 23 | Shillong | Z | iP | 04 33 01 | | Slight distant. Compression. |
| 23 | Epc:- 3.3 S 101.9 E, Near Coast of Sumatra. -h about 134 Kms; -H= 09 h. 41 m. 48.4 s.(USCGS). | | | | | |
| | Port Blair | E | e | 09 45 43 | | Slight. |
| | | | e | 47 59 | | |
| | Colombo | E | P | 09 47 10 | | |
| | | | e | 51 13 | | |
| | Shillong | ZE | iP | 09 47 50 | 4210 | Slight, Rarefaction. |
| | | | PP | 49 28 | | |
| | | | PPP | 49 50 | | |
| | | | ScP | 53 31 | | |
| | | | S | 53 42 | | |
| | | | SS | 56 30 | | |
| | | | M | 10 01 52 | | |
| | Bokaro | NE | iP | 09 48 00 | | Slight, other phases un- identifiable. |
| | | N | i | 52 02 | | |
| | Madras | E | e | 09 48 01 | | Slight, phases could not be identified due to microseismi activity. |
| | Chatra | Z | iP | 09 48 16 | 3610 | Feeble distant. Compression. |
| | | ZNE | S | 53 31 | | |
| | Poona | Z | eP | 09 48 33 | | Tremor. |
| | Hyderabad | E | e | 09 48 53 | | |
| | Dehra Dun | NE | eP | 09 49 29 | 4220 | Slight. |
| | | N | PP | 50 55 | | |
| | | | PPP | 51 13 | | |
| | | | iS | 55 22 | | |
| | | | SS/LQ | 57 28 | | |
| | | | LR | 59 24 | | |
| | | | M | 10 02 09 | | |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|-----------|--------|-------|----------------------|-----------------|-----------------------------------|
| <u>December 1960</u> | | | | | | |
| | Bombay | NE | e | 09 49 57 | | Slight. |
| | | | e | 54 21 | | |
| | | E | e | 58 03 | | |
| 23 | Shillong | Z | eP | 10 55 01 | | Slight distant. Compression. |
| | Chatra | Z | er | 10 55 42 | | Feeble, distant phases not clear. |
| | Dehra Dun | NE | eP | 10 56 56 | 5590 | Slight, phases not clear. |
| | | | iS | 11 04 09 | | |
| | Bombay | NE | e | 11 04 35 | | Very slight. |
| 23 | Shillong | Z | e | 11 33 17 | | Tremor. |
| 23 | Shillong | Z | eP | 14 57 54 | | Slight compression. |
| 23 | Shillong | Z | iP | 15 15 01 | | Slight distant. |
| 23 | Shillong | Z | i | 16 11 15 | | Tremor. |
| 23 | Shillong | Z | iPg | 16 13 18 | 180 | Slight. |
| | | | PP | 13 24 | | |
| | | | PPP | 13 31 | | |
| | | | Sg | 13 39 | | |
| | | | SS | 13 48 | | |
| 23 | Shillong | Z | e | 16 26 23 | | Slight, Tremor. |
| 23 | Shillong | Z | iP | 18 45 08 | | Slight distant. Rarefaction. |
| 23 | Shillong | Z | eP | 19 36 48 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 19 37 24 | | Feeble distant. Compression. |
| | Poona | Z | iP | 19 39 03 | | Tremor. |
| 23 | Tocklai | E | iPg | 20 07 57 | 140 | Slight near. |
| | | | iSg | 08 15 | | |
| | Shillong | ZNE | iP | 20 07 59 | 200 | Slight distant. Compression. |
| | | | PPP | 08 11 | | |
| | | | iSg | 08 23 | | |
| | | | SS | 08 35 | | |
| | | | SSS | 08 47 | | |
| | Chatra | Z | iP | 20 08 58 | 700 | Feeble, near, phases not clear. |
| | | | S | 10 11 | | |
| 23 | Chatra | Z | eP | 23 09 46 | | Feeble, near, phases not clear. |
| 24 | Shillong | Z | eP | 04 04 16 | | Slight distant. Rarefaction. |
| | Colombo | E | L | 04 06 49 | | |
| | | | M | 07 21 | | Amp= 0.3 mm. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|------------|--------|------------------------|-------------------------------------|-----------------|-----------------------------------|
| <u>December 1960</u> | | | | | | |
| | Kodaikanal | E | e | 04 08 12 | | Tremor. |
| | Hyderabad | E | M | 04 12 43 | | Period= 12 secs, Gr. dis= 4 u |
| 24 | Shillong | Z | eP | 09 12 06 | | Slight distant. Rarefaction. |
| 24 | Shillong | Z | iPg PP PPP SS | 12 44 38 44 44 44 56 45 07 | 160 | Slight. Rarefaction. |
| 24 | Chatra | Z | iPg Sg | 14 07 43 07 53 | 90 | Very mild, near. |
| 24 | Shillong | Z | e | 15 24 22 | | Tremor. |
| 24 | Shillong | Z | iP | 16 17 17 | | Slight distant. |
| 24 | Shillong | Z | eP | 16 54 23 | | Slight distant. Rarefaction. |
| 24 | Shillong | Z | e | 20 30 15 | | Slight Tremor. |
| 24 | Shillong | Z | e | 22 01 37 | | Tremor. |
| 24 | Shillong | Z | i | 22 05 35 | | Slight compression. |
| 24 | Shillong | Z | e | 23 38 24 | | Slight Tremor. |
| 25 | Hyderabad | E | M | 05 21 54 | | Period = 9 secs. Gr. dis = 3 u |
| 25 | Shillong | Z | iPg iSg | 05 25 53 24 58 | 40 | Slight Rarefaction. |
| 25 | Shillong | Z | eP | 05 29 24 | | Slight distant. Rarefaction. |
| 25 | Shillong | Z | i | 06 43 06 | | Slight Compression. |
| 25 | Shillong | Z | iPg iS | 06 55 56 56 28 | | Slight. |
| 25 | Shillong | Z | i | 10 46 17 | | Slight. |
| 25 | Shillong | Z | eP | 11 16 43 | | Slight, compression. |
| 25 | Shillong | Z | e | 11 32 08 | | Tremor. |
| 25 | Shillong | Z | eP | 14 16 05 | | Slight distant. Rarefaction. |
| 25 | Chatra | Z | Pg Sg | 14 57 47 58 01 | 120 | Feeble, local. |
| 25 | Shillong | Z | eP | 15 25 58 | | Slight distant. Rarefaction. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|--|---------|------------------------------------|---|-----------------|---------------------------------|
| <u>December 1960</u> | | | | | | |
| 25 | Shillong | Z | e | 15 32 20 | | Slight Tremor. |
| 25 | Shillong | Z | e | 19 22 05 | | Tremor. |
| 25 | Shillong | Z | iP PP Sg SS SSS | 19 47 28 47 35 47 56 48 01 48 13 | 240 | Slight Compression. |
| 25 | Shillong | Z | e | 20 37 25 | | Slight Tremor. |
| 25 | Shillong | Z | e | 20 53 02 | | Slight Tremor. |
| 25 | Shillong | ZNE | iPg P Sg PPP SS SSS | 21 27 53 27 57 28 00 28 10 28 15 28 25 | 70 | Slight, locally felt. |
| | Chatra | Z | eP eS | 21 28 56 29 38 | 350 | Feeble, near. |
| 25 | Shillong | Z | e | 21 32 47 | | Slight compression. |
| 25 | Shillong | Z | eP | 22 12 39 | | Slight distant. Rarefaction. |
| 25 | Shillong | Z | e | 22 24 35 | | Tremor. |
| 25 | Shillong | Z | e | 22 40 55 | | Slight Tremor. |
| | Chatra | Z | eP | 22 42 56 | | Very feeble, near. |
| 26 | Dehra Dun | N | e | 00 58 05 | | Tremor. |
| 26 | Epc:- 33.8 N 136.2, Near South Coast of Honshu Japan, h about 109 Kms. - H= 01 h. 44 m. 48.7 s. (USGS). | | | | | |
| | Shillong | ZNE | eP | 01 52 20 | | Slight distant. Compression. |
| | Dehra Dun | NE | e | 01 53 40 | | Tremor. |
| | Poona | Z N | iP eS | 01 54 40 02 02 42 | 6480 | Feeble. |
| | Bombay | NE | eP e | 01 54 47 02 02 31 | | Slight. |
| 26 | Dehra Dun | NE N | eP PP PPP iS SS SSS | 02 28 50 28 55 29 01 29 13 29 26 29 36 | 190 | Slight. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|-----------|--------|-----------------------------------|---|-----------------|---------------------------------------|
| <u>December 1960</u> | | | | | | |
| 26 | Shillong | Z | iP | 04 51 26 | | Slight distant. Compression. |
| | Chatra | Z | iP | 04 51 27 | | Feeble distant. Rarefaction. |
| 26 | Shillong | Z | i | 05 10 13 | | Slight Tremor. |
| 26 | Shillong | Z | e | 05 56 11 | | Tremor. |
| 26 | Shillong | ZNE | iP | 15 33 00 | | Slight, locally felt. |
| 26 | Shillong | Z | iP iSg | 15 49 52 50 21 | 200 | Slight. |
| 26 | Shillong | Z | e | 17 05 28 | | Slight Tremor. |
| 26 | Shillong | Z | iPg PP Sg SS | 18 32 31 32 38 32 44 32 56 | 110 | Slight. Rarefaction. |
| 26 | Shillong | Z | iPg iSg | 19 57 29 57 39 | 90 | Slight. |
| 26 | Dehra Dun | NE | e e i | 20 45 36 47 37 48 58 | | Feeble. |
| | Chatra | Z | iP | 20 47 16 | | Feeble, distant. Rarefaction. |
| | Shillong | Z | iP | 20 47 53 | | Slight distant. Rarefaction. |
| 26 | Shillong | ZNE | iPg | 21 01 37 | | Slight, Rarefaction. Locally felt. |
| 26 | Shillong | Z | e | 22 06 51 | | Tremor. |
| 26 | Shillong | Z | eP | 22 52 00 | | Slight distant. Compression. |
| | Chatra | Z | iP | 22 52 38 | | Feeble distant. Rarefaction. |
| 26 | Shillong | Z | iP PPP S SS Sg SSS | 23 54 48 55 00 55 35 55 45 55 52 55 56 | 450 | Slight. |
| 27 | Shillong | Z | e | 00 07 09 | | Slight tremor. |
| 27 | Shillong | Z | e | 02 33 58 | | Slight Tremor. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|----------|---------|--|--|-----------------|---|
| <u>December 1960</u> | | | | | | |
| 27 | Chatra | Z ZN | iP S | 06 54 29 54 46 | 130 | Mild near. |
| | Shillong | Z | e | 06 55 58 | | Slight Tremor. |
| 27 | Shillong | Z | iP P ePg PP PPP S iSg SS SSS | 07 07 50 07 53 07 55 07 58 08 02 08 14 08 22 08 27 08 36 | 200 | Slight. Rarefaction. |
| | Chatra | Z | eP | 07 10 00 | | Very feeble, other phases not clear. Probably near. |
| 27 | Shillong | Z | eP | 11 54 25 | | Slight distant. |
| 27 | Shillong | Z | e | 15 29 09 | | Slight Tremor. |
| 27 | Shillong | Z | iPg iSg SS | 17 21 05 21 18 21 29 | 110 | Slight. |
| 27 | Poona | Z | eP | 18 29 27 | | Tremor. |
| | Shillong | Z | eP | 18 29 36 | | Slight distant. Rarefaction. |
| | Chatra | Z | eP? | 18 29 37 | | Very feeble. |
| 28 | Shillong | Z | e | 00 08 45 | | Slight Tremor. |
| 28 | Shillong | Z | e | 05 49 38 | | Tremor. |
| 28 | Shillong | Z | e | 06 54 57 | | Slight Tremor. |
| 28 | Chatra | ZN N | eP S | 09 46 48 46 58 | 90 | Feeble local. |
| 28 | Shillong | Z | eP | 10 42 48 | | Slight distant. Rarefaction. |
| 28 | Shillong | Z | e | 15 10 00 | | Slight tremor. |
| 28 | Shillong | Z | iPg iSg | 17 53 48 54 00 | 110 | Slight. |
| 28 | Shillong | Z | eP | 18 00 18 | | Slight distant. Compression. |
| 28 | Shillong | Z | eP | 18 09 32 | | Slight distant. Compression. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|--|--------|------------------------|-------------------------------------|-----------------|--------------------------------------|
| <u>December 1960</u> | | | | | | |
| 28 | Shillong | Z | iPg PP Sg SSS | 18 15 39 15 52 16 13 16 28 | 290 | Slight. |
| | Chatra | Z | iP eS | 18 16 46 18 06 | 780 | Feeble. |
| 28 | Shillong | Z | ePg iSg | 19 00 34 00 42 | 70 | Slight. |
| 28 | Shillong | Z | eP | 19 57 22 | | Slight distant. Rarefaction. |
| 28 | Chatra | Z | iP | 19 57 37 | | Feeble distant. |
| 28 | Shillong | Z | e | 22 33 49 | | Slight Tremor. |
| 28 | Shillong | Z | e | 23 07 06 | | Tremor. |
| 28 | Shillong | Z | e | 23 22 54 | | Tremor. |
| 29 | Shillong | Z | ePg iSg | 00 06 36 06 47 | 90 | Slight. |
| 29 | Shillong | Z | eP | 00 35 53 | | Slight. |
| 29 | Shillong | Z | e | 00 47 45 | | Slight. |
| 29 | Shillong | Z | i | 05 06 13 | | Tremor. |
| 29 | Bombay | E | e e e | 06 21 46 31 42 38 43 | | Slight. |
| 29 | Epc:- 44.8 S 75.6 W, Coast of Southern Chile. -H= 10 h. 36 m. 40 s. Mag:- $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas) $5\frac{3}{4}$ -6(Berk & Pal) (USCGS). | | | | | |
| | Poona | Z | iPKP | 10 56 16 | | |
| | | N | i | 11 03 58 | | |
| | Bombay | N | ePKP | 10 56 18 | 15880 | |
| | | NE | eSS | 11 18 08 | | |
| | Port Blair | E | e | 10 56 23 | | |
| | Hyderabad | E | i M | 10 56 26 11 54 23 | | Period= 21 secs, Gr.dis= 10 μ |
| | Shillong | ZE | ePKP | 10 56 30 | | Distant. |
| | Chatra | Z | ePKP | 10 56 37 | | Distant. |
| | Dehra Dun | NE | e e | 10 57 06 11 07 30 | | Phases not clear. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|-----------|---------|-------------------------|-------------------------------------|-----------------|------------------------------------|
| <u>December 1960</u> | | | | | | |
| 29 | Shillong | Z | eP | 13 52 43 | | Slight distant. Rarefaction. |
| | Chatra | Z | iP | 13 53 37 | | Feeble distant. Rarefaction. |
| 29 | Shillong | ZNE | iPg iSg SS SSS | 14 55 52 56 02 56 17 56 28 | 90 | Slight, locally felt. |
| | Chatra | Z ZN | eP S | 14 56 43 57 39 | 490 | Feeble. |
| 29 | Shillong | Z | eP | 17 52 50 | | Slight distant. Rarefaction. |
| 29 | Chatra | Z | iP | 18 29 11 | | Feeble distant. Compression. |
| | Shillong | Z | eP | 18 29 35 | | Slight distant. |
| 29 | Poona | Z | iP | 19 21 17 | | Feeble, other phases not clear. |
| | Dehra Dun | NE | e | 19 21 24 | | Tremor. |
| | Shillong | Z | eP | 19 21 34 | | Slight distant. Rarefaction. |
| | Chatra | Z | eP | 19 21 34 | | Feeble distant. |
| 29 | Shillong | Z | eP | 19 59 08 | | Slight Rarefaction. |
| | Chatra | Z | iP | 19 59 47 | | Feeble distant. Compression. |
| 29 | Shillong | Z | e | 20 52 12 | | Slight. |
| 29 | Shillong | Z | eP | 21 52 38 | | Slight distant. Rarefaction. |
| 30 | Shillong | Z | eP | 00 37 15 | | Slight distant. Compression. |
| 30 | Shillong | Z | eP | 05 37 43 | | Slight Distant. Compression. |
| 30 | Shillong | Z | e | 08 11 15 | | Tremor. |
| 30 | Shillong | Z | i | 08 38 14 | | Slight Compression. |
| 30 | Shillong | Z | eP | 11 24 14 | | Slight distant. Rarefaction. |
| 30 | Shillong | Z | e | 11 40 04 | | Tremor. |
| 30 | Shillong | Z | i | 13 06 35 | | Slight tremor. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|------------|--------|-----------------------|-------------------------------------|-----------------|---|
| <u>December 1960</u> | | | | | | |
| 30 | Shillong | Z | e | 18 17 58 | | Slight Rarefaction. |
| 30 | Shillong | Z | iP iSg | 19 36 24 36 53 | 210 | |
| 30 | Dehra Dun | NE | e | 21 35 27 | | Slight, phases not clear. |
| | | | i | 36 58 | | |
| | | | i | 37 10 | | |
| | | | i | 37 20 | | |
| | Chatra | Z | iP | 21 37 11 | | Feeble, distant, probably two shocks, phases overlapping. |
| | | ZNE | i? | 40 15 | | |
| | Shillong | Z | eP | 21 37 50 | | Slight distant. Compression. |
| 30 | Shillong | Z | e | 23 27 11 | | Slight. Compression. |
| 31 | Shillong | Z | i | 00 01 01 | | Slight. Compression. |
| 31 | Shillong | Z | iP iSg | 00 11 13 11 41 | 200 | Slight. |
| 31 | Shillong | ZE | iP PP Sg SSS | 05 43 49 43 55 44 15 44 32 | 220 | Slight. Rarefaction. |
| | Chatra | Z | eP | 05 44 42 | 530 | Feeble. |
| | | Z | S | 45 40 | | |
| 31 | Shillong | Z | e | 07 39 53 | | Slight. Tremor. |
| 31 | Shillong | Z | e | 08 56 58 | | Slight. Compression. |
| 31 | Chatra | E | e | 09 10 02 | | Slight. |
| 31 | Shillong | Z | eP | 14 32 22 | | Slight distant. Compression. |
| 31 | Chatra | Z | eP | 16 14 04 | | Feeble, distant. |
| 31 | Shillong | Z | e | 16 19 04 | | Slight Compression. |
| 31 | Shillong | Z | eP | 16 13 28 | | Slight distant. Rarefaction. |
| 31 | Shillong | Z | e | 16 34 04 | | Tremor. |
| 31 | Port Blair | E | e | 17 27 49 | | Slight. |
| 31 | Bokaro | E | e | 18 21 11 | | Teleseismic waves. |

| Date | Station | Compt. | Phase | G. M. T. h. m. s. | Δ Km. | Remarks. |
|----------------------|---|--------|--------------|----------------------|-----------------|-------------------------|
| <u>December 1960</u> | | | | | | |
| 31 | Epc:- 43.9 S 75.0 W Near Coast of S. Chile. -h about 92 Kms, Mag:- $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas) $5\frac{1}{4}$ - $5\frac{1}{2}$ (Pal). -H 18 h 08 m. 12.3 s. | | | | | |
| | Poona | Z | iPKP | 18 27 39 | | Other phases not clear. |
| | Bombay | NE | ePKP1 eSS | 18 27 42 49 46 | 16050 | |
| | Shillong | Z | ePKP | 18 27 58 | | Distant. Rarefaction. |
| | Chatra | Z | iPKP | 18 28 03 | | Distant. Rarefaction. |
| | Calcutta | E | e | 18 28 19 | | |
| | Dehra Dun | NE | e | 18 28 27 | | Phases not clear. |
| 31 | Shillong | Z | iP | 20 07 40 | | Slight. |
| 31 | Shillong | Z | e | 21 16 28 | | Slight Tremor. |
| 31 | Shillong | Z | e | 22 27 51 | | Slight. Tremor. |
| 31 | Shillong | Z | iPg iSg | 23 19 27 19 47 | 170 | Slight. |
| 31 | Shillong | Z | e | 23 23 41 | | Slight, Tremor. |

Earthquake Reports.

(Non Instrumental)

The following is the list of Earthquakes that were reported by voluntary observers from different places during the month of December 1960 A.D.

| Place | Date in G.M.T. | Time in G.M.T. | | Duration of shock in secs. | No. of shocks. | Intensity in R.F.Scale | Remarks. |
|----------|-------------------|-------------------|----|-------------------------------|-------------------|---------------------------|---------------------------------|
| | | h. | m. | | | | |
| Shillong | 15 | 22 | 06 | 30 | 1 | IV | From S.W. direction some sound. |
| Umroi | 15 | 22 | 15 | Each 2-5 | 2 | IV | - |
| Shillong | 25 | 21 | 28 | 3 | 1 | III | - |
| Shillong | 26 | 15 | 33 | 5 | 1 | IV | From south Rattling sound. |
| Shillong | 26 | 21 | 00 | 5 | 1 | III | - |
| Shillong | 29 | 14 | 55 | 4 | 1 | III | SE to NW motion. |

MICROSEISMIC TABULATION

STATION : Shillong.

Component : E-W.

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|-----|------------------------|----------------------|------|------|-----|------------------------|----------------------|
| GMT | | | | | GMT | | | | |
| 01 | 00 | 1 | 0.6 | 5.0 | 12 | 00 | 1 | 0.5 | 5.5 |
| | 06 | ... | - | - | | 06 | 3 | 0.5 | 5.0 |
| | 12 | 3 | 0.6 | 4.5 | | 12 | 3 | 0.5 | 4.0 |
| | 18 | 3 | 0.6 | 4.8 | | 18 | 3 | 0.5 | 5.6 |
| 02 | 00 | 1 | 0.5 | 4.5 | 13 | 00 | 3 | 0.5 | 5.0 |
| | 06 | ... | - | - | | 06 | 3 | 0.5 | 5.5 |
| | 12 | 1 | 0.5 | 4.8 | | 12 | 3 | 0.6 | 5.0 |
| | 18 | 1 | 0.5 | 4.8 | | 18 | 3 | 0.6 | 5.5 |
| 03 | 00 | 1 | 0.6 | 5.0 | 14 | 00 | 1 | 0.4 | 5.0 |
| | 06 | 1 | 0.5 | 5.0 | | 06 | 3 | 0.5 | 5.0 |
| | 12 | 1 | 0.6 | 5.0 | | 12 | 1 | 0.4 | 4.5 |
| | 18 | 1 | 0.5 | 5.0 | | 18 | 1 | 0.5 | 4.5 |
| 04 | 00 | ... | - | - | 15 | 00 | ... | - | - |
| | 06 | 1 | 0.4 | 4.5 | | 06 | 1 | 0.4 | 5.0 |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 1 | 0.5 | 5.0 |
| | 18 | 1 | 0.6 | 5.5 | | 18 | 1 | 0.5 | 5.0 |
| 05 | 00 | 1 | 0.6 | 5.5 | 16 | 00 | 1 | 0.4 | 5.0 |
| | 06 | 1 | 0.5 | 6.0 | | 06 | 1 | 0.5 | 5.0 |
| | 12 | 1 | 0.3 | 5.5 | | 12 | 1 | 0.4 | 5.0 |
| | 18 | 1 | 0.3 | 5.5 | | 18 | 1 | 0.3 | 5.0 |
| 06 | 00 | 1 | 0.3 | 5.0 | 17 | 00 | 1 | 0.5 | 5.0 |
| | 06 | 1 | 0.3 | 5.5 | | 06 | 1 | 0.5 | 5.0 |
| | 12 | 1 | 0.3 | 5.5 | | 12 | 1 | 0.5 | 5.5 |
| | 18 | 1 | 0.3 | 5.3 | | 18 | 1 | 0.6 | 5.5 |
| 07 | 00 | 1 | 0.3 | 5.0 | 18 | 00 | 1 | 0.6 | 4.5 |
| | 06 | 1 | 0.3 | 5.0 | | 06 | 1 | 0.6 | 5.5 |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 1 | 0.3 | 5.5 |
| | 18 | 1 | 0.4 | 5.0 | | 18 | 1 | 0.6 | 5.5 |
| 08 | 00 | 1 | 0.3 | 5.0 | 19 | 00 | 1 | 0.6 | 5.0 |
| | 06 | 1 | 0.3 | 5.0 | | 06 | 1 | 0.5 | 5.2 |
| | 12 | 1 | 0.3 | 5.0 | | 12 | 1 | 0.5 | 5.0 |
| | 18 | 1 | 0.3 | 4.5 | | 18 | 1 | 0.5 | 4.5 |
| 09 | 00 | 1 | 0.3 | 4.5 | 20 | 00 | 1 | 0.6 | 4.8 |
| | 06 | 1 | 0.4 | 4.5 | | 06 | 1 | 0.5 | 5.0 |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 1 | 0.5 | 5.5 |
| | 18 | 1 | 0.5 | 6.0 | | 18 | 1 | 0.5 | 5.5 |
| 10 | 00 | 1 | 0.4 | 5.5 | 21 | 00 | 1 | 0.4 | 6.0 |
| | 06 | 1 | 0.4 | 5.0 | | 06 | 1 | 0.5 | 5.0 |
| | 12 | 1 | 0.4 | 5.0 | | 12 | 1 | 0.6 | 5.0 |
| | 18 | 1 | 0.4 | 5.0 | | 18 | 1 | 0.6 | 5.5 |
| 11 | 00 | 1 | 0.5 | 5.0 | 22 | 00 | 1 | 0.6 | 5.0 |
| | 06 | 3 | 0.4 | 4.0 | | 06 | 1 | 0.5 | 5.6 |
| | 12 | 3 | 0.5 | 5.0 | | 12 | 1 | 0.6 | 5.2 |
| | 18 | 1 | 0.5 | 5.0 | | 18 | 1 | 0.6 | 4.5 |

STATION : Shillong (contd.)

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|-----|------------------------|----------------------|------|------|-----|------------------------|----------------------|
| | GMT | | | | | GMT | | | |
| 23 | 00 | 1 | 0.5 | 5.0 | 01 | 12 | 1 | 0.7 | 4.3 |
| | 06 | 1 | 0.6 | 5.0 | | 15 | 1 | 0.9 | 4.3 |
| | 12 | 1 | 0.6 | 6.0 | | 18 | 1 | 0.9 | 4.3 |
| | 18 | 1 | 0.6 | 6.0 | | 21 | 1 | 0.7 | 4.3 |
| 24 | 00 | 1 | 0.5 | 5.4 | 02 | 00 | 1 | 0.8 | 4.4 |
| | 06 | 1 | 0.6 | 5.3 | | 03 | 1 | 0.8 | 4.4 |
| | 12 | 1 | 0.6 | 5.0 | | 06 | 1 | 1.1 | 4.1 |
| | 18 | 1 | 0.6 | 5.8 | | 09 | 1 | 0.8 | 4.6 |
| 25 | 00 | 1 | 0.5 | 6.0 | | 12 | ... | - | - |
| | 06 | 1 | 0.5 | 5.8 | | 15 | 1 | 0.8 | 4.8 |
| | 12 | 1 | 0.5 | 6.0 | | 18 | 1 | 0.9 | 4.8 |
| | 18 | 1 | 0.4 | 6.0 | | 21 | 1 | 0.9 | 4.7 |
| 26 | 00 | 1 | 0.5 | 6.0 | 03 | 00 | 1 | 0.9 | 4.9 |
| | 06 | 1 | 0.6 | 4.8 | | 03 | 1 | 0.9 | 5.2 |
| | 12 | 1 | 0.5 | 5.0 | | 06 | ... | - | - |
| | 18 | 1 | 0.5 | 5.2 | | 12 | 3 | 0.7 | 6.1 |
| 27 | 00 | 1 | 0.5 | 5.2 | | | | 0.5 | 3.6 |
| | 06 | 3 | 0.5 | 5.3 | | 18 | 3 | 0.7 | 5.7 |
| | 12 | 1 | 0.6 | 5.3 | | | | 0.4 | 5.0 |
| | 18 | 1 | 0.6 | 4.8 | 04 | 00 | 2 | 0.6 | 5.2 |
| 28 | 00 | 1 | 0.7 | 6.0 | | 06 | 2 | 0.5 | 4.8 |
| | 06 | 1 | 0.6 | 5.3 | | 12 | 2 | 0.6 | 5.4 |
| | 12 | 3 | 0.5 | 5.0 | | 18 | 2 | 0.7 | 6.1 |
| | 18 | 3 | 0.5 | 6.0 | 05 | 00 | 2 | 0.5 | 5.1 |
| 29 | 00 | 1 | 0.6 | 4.5 | | 06 | 2 | 0.4 | 5.5 |
| | 06 | 1 | 0.5 | 5.0 | | 12 | 2 | 0.5 | 5.2 |
| | 12 | ... | - | - | | 18 | 2 | 0.5 | 5.8 |
| | 18 | 1 | 0.5 | 5.3 | 06 | 00 | 2 | 0.5 | 5.4 |
| 30 | 00 | 1 | 0.5 | 6.3 | | 06 | 2 | 0.5 | 5.5 |
| | 06 | ... | - | - | | 12 | 2 | 0.5 | 5.0 |
| | 12 | 1 | 0.6 | 5.0 | | 18 | 2 | 0.5 | 5.0 |
| | 18 | 1 | 0.6 | 4.8 | 07 | 00 | 2 | 0.5 | 5.2 |
| 31 | 00 | 1 | 0.5 | 5.0 | | 06 | ... | - | - |
| | 06 | 1 | 0.4 | 5.5 | | 12 | 2 | 0.5 | 5.2 |
| | 12 | 1 | 0.6 | 5.0 | | 18 | 2 | 0.5 | 5.5 |
| | 18 | 1 | 0.6 | 5.3 | 08 | 00 | 2 | 0.5 | 4.8 |
| | | | | | | 06 | 2 | 0.5 | 5.0 |
| | | | | | | 12 | 2 | 0.5 | 5.3 |
| | | | | | | 18 | 2 | 0.4 | 5.1 |

STATION : Bombay (Colaba)

| | | | | | | | | | |
|----|----|---|-----|-----|----|----|-----|-----|-----|
| 01 | 00 | 1 | 0.7 | 4.5 | 09 | 00 | ... | - | - |
| | 03 | 1 | 0.8 | 4.2 | | 06 | 2 | 0.4 | 5.1 |
| | 06 | 1 | 0.8 | 4.2 | | 12 | 2 | 0.4 | 5.1 |
| | 09 | 1 | 0.7 | 4.6 | | 18 | 2 | 0.5 | 5.1 |

STATION : Bombay (Colaba) contd.

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------------|----------------------------|------|------|-----|------------------------------|----------------------------|
| 10 | 00 | 2 | 0.4 | 5.2 | 19 | 00 | 3 | 0.7 | 4.0 |
| | 06 | 2 | 0.4 | 4.8 | | | | 0.3 | 1.7 |
| | 12 | 2 | 0.4 | 5.2 | 06 | 3 | 0.6 | 3.8 | |
| | 18 | 2 | 0.5 | 4.6 | | | | 0.4 | 2.4 |
| 11 | 00 | 2 | 0.4 | 5.2 | 12 | 3 | 0.5 | 4.0 | |
| | 06 | 3 | 0.4 | 4.9 | | | | 0.3 | 2.5 |
| | | | 0.3 | 2.2 | 18 | 2 | 0.5 | 4.0 | |
| | 12 | 3 | 0.5 | 4.8 | 20 | 00 | 2 | 0.5 | 3.8 |
| | | | 0.5 | 2.5 | | 06 | 2 | 0.5 | 3.8 |
| | 18 | 3 | 0.5 | 4.6 | | 12 | 2 | 0.5 | 4.1 |
| | | | 0.3 | 2.6 | | 18 | 2 | 0.5 | 4.1 |
| 12 | 00 | 3 | 0.4 | 4.3 | 21 | 00 | 2 | 0.5 | 4.0 |
| | | | 0.3 | 2.5 | | 06 | 2 | 0.6 | 3.8 |
| | 06 | 3 | 0.4 | 4.5 | | 12 | 2 | 0.5 | 3.6 |
| | | | 0.4 | 2.7 | | 18 | 2 | 0.5 | 3.9 |
| | 12 | 3 | 0.3 | 4.3 | 22 | 00 | 2 | 0.4 | 3.5 |
| | | | 0.3 | 3.0 | | 06 | 2 | 0.5 | 3.8 |
| | 18 | 2 | 0.4 | 3.5 | | 12 | 2 | 0.5 | 3.8 |
| 13 | 00 | 2 | 0.3 | 4.2 | | 18 | 2 | 0.6 | 3.9 |
| | 06 | 2 | 0.5 | 4.8 | 23 | 00 | 2 | 0.5 | 3.6 |
| | 12 | 3 | 0.5 | 4.9 | | 06 | 2 | 0.5 | 3.4 |
| | | | 0.5 | 3.0 | | 12 | 2 | 0.5 | 3.5 |
| | 18 | 3 | 0.6 | 4.1 | | 18 | 2 | 0.6 | 3.5 |
| | | | 0.4 | 2.6 | 24 | 00 | 3 | 0.5 | 3.4 |
| 14 | 00 | 2 | 0.5 | 3.7 | | | | 0.3 | 2.0 |
| | 06 | 2 | 0.6 | 4.6 | | 06 | 3 | 0.5 | 3.9 |
| | 12 | 2 | 0.5 | 4.5 | | | | 0.3 | 2.0 |
| | 18 | 2 | 0.5 | 4.1 | | 12 | 3 | 0.5 | 4.0 |
| 15 | 00 | 2 | 0.5 | 4.2 | | | | 0.3 | 2.3 |
| | 06 | 2 | 0.5 | 4.5 | | 18 | 3 | 0.5 | 4.5 |
| | 12 | 2 | 0.4 | 4.2 | | | | 0.3 | 2.0 |
| | 18 | 2 | 0.5 | 4.2 | 25 | 00 | 3 | 0.5 | 4.4 |
| 16 | 00 | 2 | 0.5 | 4.5 | | | | 0.3 | 2.0 |
| | 06 | 2 | 0.5 | 4.0 | | 06 | 3 | 0.4 | 4.6 |
| | 12 | 2 | 0.4 | 3.4 | | | | 0.3 | 2.0 |
| | 18 | 2 | 0.5 | 3.6 | | 12 | 3 | 0.4 | 4.1 |
| 17 | 00 | 2 | 0.4 | 4.0 | | | | 0.5 | 2.3 |
| | 06 | 2 | 0.4 | 4.0 | | 18 | 3 | 0.6 | 4.6 |
| | 12 | 2 | 0.4 | 3.8 | | | | 0.7 | 2.5 |
| | 18 | 2 | 0.5 | 3.7 | 26 | 00 | 3 | 0.5 | 4.6 |
| 18 | 00 | 2 | 0.5 | 3.3 | | | | 0.5 | 2.5 |
| | 06 | 2 | 0.6 | 4.1 | | 06 | 3 | 0.6 | 5.2 |
| | 12 | 2 | 0.7 | 4.5 | | | | 0.4 | 2.5 |
| | 18 | 3 | 0.7 | 4.3 | | 12 | 3 | 0.5 | 4.9 |
| | | | 0.4 | 1.7 | | | | 0.6 | 2.5 |
| | | | | | | 18 | 3 | 0.6 | 5.0 |
| | | | | | | | | 0.6 | 2.3 |

Bombay (contd.)
STATION : Bombay (contd.)

MONTH : December, 1960.

Date Hour K Mean Mean Date Hour K Mean Mean
GMT amplitude period GMT amplitude period
in m.m. in secs. in m.m. in secs.

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|-----|-----|-----|
| 27 | 00 | 3 | 0.6 | 4.7 | 02 | 00 | ... | - | - |
| | | | 0.5 | 2.3 | | 06 | ... | - | - |
| | 06 | 3 | 0.6 | 4.4 | | 12 | 1 | 0.9 | 4.0 |
| | | | 0.7 | 2.5 | | 18 | 1 | 1.1 | 4.4 |
| | 12 | 3 | 0.6 | 4.5 | | | | | |
| | | | 0.6 | 2.5 | 03 | 00 | 1 | 0.7 | 4.0 |
| | 18 | 3 | 0.7 | 4.4 | | 03 | 3 | 0.9 | 4.1 |
| | | | 0.5 | 2.5 | | 06 | ... | - | - |
| 28 | 00 | 3 | 0.8 | 4.6 | | 12 | 3 | 0.7 | 4.0 |
| | | | 0.5 | 2.7 | | 18 | 3 | 0.7 | 4.2 |
| | 06 | 3 | 0.7 | 3.8 | | | 1 | 0.4 | 2.9 |
| | | | 0.7 | 2.5 | 04 | 00 | 3 | 0.5 | 4.0 |
| | 12 | 3 | 0.7 | 4.3 | | | 1 | 0.3 | 2.9 |
| | | | 0.5 | 2.3 | | 03 | 3 | 0.7 | 4.0 |
| | 18 | 3 | 0.7 | 4.2 | | | 1 | 0.3 | 2.8 |
| | | | 0.6 | 1.9 | | 03 | 3 | 0.4 | 3.9 |
| 29 | 00 | 3 | 0.8 | 3.8 | | 12 | 3 | 0.4 | 3.7 |
| | | | 0.4 | 2.0 | | 18 | 3 | 0.3 | 3.8 |
| | 06 | 3 | 0.8 | 4.0 | 05 | 00 | ... | - | - |
| | | | 0.3 | 1.8 | | 03 | ... | - | - |
| | 12 | ... | - | - | | 06 | ... | - | - |
| | 18 | 3 | 0.8 | 3.8 | | 12 | ... | - | - |
| | | | 0.3 | 1.7 | | 18 | 3 | 0.3 | 5.0 |
| 30 | 00 | 3 | 0.9 | 4.0 | 06 | 00 | 3 | 0.2 | 5.1 |
| | | | 0.4 | 1.8 | | 03 | 3 | 0.3 | 4.8 |
| | 06 | 3 | 0.8 | 3.9 | | 06 | ... | - | - |
| | | | 0.9 | 2.5 | | 12 | 3 | 0.3 | 4.9 |
| | 12 | 3 | 1.0 | 2.7 | | 18 | 3 | 0.3 | 5.0 |
| | | | 0.4 | 2.0 | 07 | 00 | 3 | 0.3 | 5.0 |
| | 18 | 3 | 0.8 | 3.0 | | 03 | 3 | 0.3 | 4.9 |
| | | | 0.5 | 2.0 | | 06 | ... | - | - |
| 31 | 00 | 3 | 0.7 | 3.4 | | 12 | ... | - | - |
| | | | 0.4 | 1.8 | | 18 | ... | - | - |
| | 06 | 3 | 0.7 | 3.3 | | | | | |
| | | | 0.3 | 2.0 | 08 | 00 | ... | - | - |
| | 12 | 3 | 0.5 | 3.7 | | 03 | ... | - | - |
| | | | 0.3 | 2.0 | | 06 | ... | - | - |
| | 18 | 3 | 0.6 | 4.3 | | 12 | 1 | 0.2 | 2.1 |
| | | | 0.3 | 2.0 | | 18 | 1 | 0.2 | 2.4 |

STATION : Madras

| | | | | | | | | | |
|----|----|-----|---|---|----|----|---|-----|-----|
| 01 | 00 | ... | - | - | 09 | 00 | 1 | 0.3 | 2.5 |
| | 06 | ... | - | - | | 03 | 1 | 0.2 | 2.1 |
| | 12 | ... | - | - | | 06 | 3 | 0.2 | 2.6 |
| | 18 | ... | - | - | | 12 | 3 | 0.3 | 2.7 |
| | | | | | | 18 | 3 | 0.3 | 2.7 |
| | | | | | 10 | 00 | 3 | 0.3 | 2.7 |
| | | | | | | 03 | 3 | 0.3 | 2.7 |

STATION : Madras (contd.)

MONTH : December, 1960

| Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs | Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs. |
|------|----------|-----|------------------------|---------------------|------|----------|-----|------------------------|----------------------|
| 10 | 06 | ... | - | - | 19 | 00 | 3 | 0.5 | 2.7 |
| | 12 | 3 | 0.3 | 2.7 | | 03 | 3 | 0.3 | 2.9 |
| | 18 | 3 | 0.3 | 2.5 | | 06 | 3 | 0.2 | 2.7 |
| 11 | 00 | 3 | 0.3 | 2.7 | | 12 | 3 | 0.5 | 2.8 |
| | 03 | 3 | 0.4 | 2.7 | | 18 | 3 | 0.5 | 3.1 |
| | 06 | 3 | 0.3 | 2.6 | 20 | 00 | 3 | 0.3 | 2.9 |
| | 12 | 3 | 0.3 | 2.7 | | 03 | 3 | 0.5 | 3.1 |
| | 18 | 3 | 0.3 | 2.7 | | 06 | 3 | 0.5 | 3.0 |
| 12 | 00 | 3 | 0.4 | 2.9 | | 12 | 3 | 0.3 | 3.4 |
| | 03 | 3 | 0.4 | 2.9 | | 18 | 3 | 0.5 | 3.4 |
| | 06 | 3 | 0.5 | 2.9 | 21 | 00 | 3 | 0.3 | 3.1 |
| | 12 | 3 | 0.4 | 2.9 | | 03 | 3 | 0.3 | 3.2 |
| | 18 | 3 | 0.5 | 3.1 | | 06 | 3 | 0.5 | 3.2 |
| 13 | 00 | 3 | 0.4 | 3.1 | | 12 | 3 | 0.2 | 3.4 |
| | 03 | 3 | 0.4 | 3.0 | | 18 | 3 | 0.3 | 3.6 |
| | 06 | 3 | 0.5 | 2.7 | 22 | 00 | 3 | 0.3 | 3.5 |
| | 12 | 3 | 0.5 | 2.9 | | 03 | 3 | 0.5 | 3.4 |
| | 18 | 3 | 0.5 | 3.1 | | 06 | 3 | 0.2 | 3.2 |
| 14 | 00 | 3 | 0.4 | 3.0 | | 12 | 3 | 0.3 | 3.2 |
| | 03 | 3 | 0.5 | 3.2 | | 18 | 3 | 0.3 | 3.5 |
| | 06 | 3 | 0.3 | 3.0 | 23 | 00 | 3 | 0.5 | 3.1 |
| | 12 | 3 | 0.3 | 3.1 | | 03 | 3 | 0.3 | 3.0 |
| | 18 | 3 | 0.3 | 3.0 | | 06 | 3 | 0.3 | 3.3 |
| 15 | 00 | ... | - | - | | 12 | 3 | 0.2 | 3.2 |
| | 03 | 3 | 0.3 | 2.9 | | 18 | 3 | 0.3 | 3.1 |
| | 06 | 3 | 0.2 | 2.7 | 24 | 00 | 3 | 0.2 | 2.9 |
| | 12 | 3 | 0.2 | 2.9 | | 03 | 3 | 0.2 | 3.0 |
| | 18 | 3 | 0.2 | 2.7 | | 06 | 3 | 0.2 | 3.0 |
| 16 | 00 | 3 | 0.2 | 2.9 | | 12 | 3 | 0.2 | 3.1 |
| | 03 | 3 | 0.3 | 2.9 | | 18 | 3 | 0.2 | 3.0 |
| | 06 | 3 | 0.3 | 2.8 | 25 | 00 | 3 | 0.2 | 2.9 |
| | 12 | ... | - | - | | 03 | 3 | 0.2 | 2.9 |
| | 18 | 3 | 0.3 | 3.0 | | 06 | 3 | 0.2 | 2.9 |
| 17 | 00 | 3 | 0.3 | 2.9 | | 12 | 3 | 0.2 | 3.0 |
| | 03 | 3 | 0.3 | 2.8 | | 18 | 3 | 0.2 | 3.0 |
| | 06 | 3 | 0.2 | 2.4 | 26 | 00 | 3 | 0.2 | 2.8 |
| | 12 | 3 | 0.3 | 2.8 | | 03 | 3 | 0.2 | 2.8 |
| | 18 | 3 | 0.3 | 2.7 | | 06 | 3 | 0.5 | 2.8 |
| 18 | 00 | 3 | 0.3 | 2.7 | | 12 | ... | - | - |
| | 03 | 3 | 0.3 | 2.8 | | 18 | 3 | 0.3 | 3.0 |
| | 06 | 3 | 0.3 | 2.8 | | | | | |
| | 12 | 3 | 0.3 | 2.8 | | | | | |
| | 18 | 3 | 0.3 | 2.9 | | | | | |

STATION : Madras (contd.)

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour GMT | K | Mean amplitude in m.m. | Mean period in secs. |
|------|------|---|------------------------|----------------------|------|----------|-----|------------------------|----------------------|
| 27 | 00 | 3 | 0.3 | 2.9 | 14 | 00 | 0,0 | - | - |
| | | 1 | 0.1 | 1.9 | | 06 | 0,0 | - | - |
| | 03 | 3 | 0.3 | 2.7 | | 12 | 3 | 0.4 | 5.0 |
| | | 1 | 0.1 | 1.8 | | 18 | 3 | 0.5 | 4.8 |
| | 06 | 3 | 0.4 | 2.7 | | | | | |
| | | 1 | 0.2 | 1.9 | 15 | 00 | ... | - | - |
| | 12 | 3 | 0.4 | 3.2 | | 06 | 0,0 | - | - |
| | | 1 | 0.1 | 1.9 | | 12 | 3 | 0.5 | 4.7 |
| | 18 | 3 | 0.4 | 3.1 | | 18 | 3 | 0.5 | 4.8 |
| | | 1 | 0.2 | 1.8 | | | | | |
| 28 | 00 | 3 | 0.3 | 2.9 | 16 | 00 | 3 | 0.5 | 5.0 |
| | | 1 | 0.2 | 1.9 | | 06 | 0,0 | - | - |
| | 03 | 3 | 0.3 | 3.0 | | 12 | 3 | 0.4 | 4.7 |
| | | 1 | 0.2 | 2.0 | | 18 | 3 | 0.4 | 5.0 |
| | 06 | 3 | 0.4 | 3.0 | | | | | |
| | | 1 | 0.2 | 1.9 | 17 | 00 | 0,0 | - | - |
| | 12 | 3 | 0.4 | 3.0 | | 06 | 0,0 | - | - |
| | | 1 | 0.2 | 2.1 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.5 | 3.1 | | 18 | 0,0 | - | - |
| | | 1 | 0.2 | 2.1 | | | | | |
| 29 | 00 | 1 | 0.4 | 3.0 | 18 | 00 | 0,0 | - | - |
| | 03 | 1 | 0.4 | 2.9 | | 06 | 0,0 | - | - |
| | 06 | 1 | 0.4 | 2.9 | | 12 | 3 | 0.5 | 5.0 |
| | 12 | 1 | 0.4 | 3.0 | | 18 | 3 | 0.5 | 5.0 |
| | 18 | 1 | 0.4 | 2.9 | | | | | |
| 30 | 00 | 1 | 0.4 | 2.9 | 19 | 00 | 0,0 | - | - |
| | 03 | 1 | 0.4 | 2.8 | | 06 | 3 | 0.5 | 5.0 |
| | 06 | 1 | 0.5 | 2.7 | | 12 | 3 | 0.5 | 5.0 |
| | 12 | 1 | 0.5 | 2.9 | | 18 | 3 | 0.5 | 5.0 |
| | 18 | 1 | 0.6 | 2.9 | | | | | |
| 31 | 00 | 1 | 0.6 | 2.9 | 20 | 00 | 0,0 | - | - |
| | 03 | 1 | 0.7 | 2.8 | | 06 | 0,0 | - | - |
| | 06 | 1 | 0.7 | 2.9 | | 12 | 3 | 0.4 | 5.0 |
| | 12 | 1 | 0.9 | 2.9 | | 18 | 3 | 0.4 | 4.5 |
| | 18 | 1 | 0.9 | 2.9 | | | | | |
| | | | | | 21 | 00 | 0,0 | - | - |
| | | | | | | 06 | 0,0 | - | - |
| | | | | | | 12 | 3 | 0.4 | 5.0 |
| | | | | | | 18 | 3 | 0.4 | 5.0 |
| | | | | | 22 | 00 | 0,0 | - | - |
| | | | | | | 06 | 0,0 | - | - |
| | | | | | | 12 | 3 | 0.4 | 5.0 |
| | | | | | | 18 | 3 | 0.4 | 4.5 |

STATION : Bokaro

Sprengnether out of commission till 12 th December.

| | | | | |
|----|----|---|-----|-----|
| 13 | 12 | 3 | 0.5 | 5.0 |
| | 18 | 3 | 0.5 | 5.0 |

STATION : Bokaro (contd.)

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in m.m. | Mean period in secs. | Date | Hour | K | Mean amplitude in micron. | Mean period in secs. |
|------|------|---|------------------------|----------------------|------|------|---|---------------------------|----------------------|
| | GMT | | | | | GMT | | | |

STATION : Port Blair

| | | | | | | | | | |
|----|----|-----|-----|-----|----|----|------|-----|-----|
| 23 | 00 | 0,0 | - | - | 01 | 00 | 3 | 0.4 | 3.2 |
| | 06 | 0,0 | - | - | | 06 | 3 | 0.4 | 3.2 |
| | 12 | 3 | 0.5 | 5.0 | | 12 | 3 | 0.4 | 3.2 |
| | 18 | 3 | 0.5 | 5.0 | | 18 | 3 | 0.4 | 3.2 |
| 24 | 00 | 3 | 0.4 | 5.0 | 02 | 00 | 3 | 0.4 | 3.2 |
| | 06 | 0,0 | - | - | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 5.0 | | 12 | 0.. | - | - |
| | 18 | 3 | 0.5 | 5.0 | | 18 | 0.. | - | - |
| 25 | 00 | 3 | 0.5 | 4.5 | 03 | 00 | 0... | - | - |
| | 06 | 3 | 0.5 | 5.0 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 5.0 | | 12 | 0.. | - | - |
| | 18 | 2 | 0.6 | 5.0 | | 18 | 0.. | - | - |
| 26 | 00 | 2 | 0.6 | 5.0 | 04 | 00 | 0,0 | - | - |
| | 06 | 2 | 0.6 | 5.0 | | 06 | 0.. | - | - |
| | 12 | 2 | 0.6 | 5.2 | | 12 | 0,0 | - | - |
| | 18 | 2 | 0.6 | 5.0 | | 18 | 0,0 | - | - |
| 27 | 00 | 3 | 0.6 | 5.0 | 05 | 00 | 0.. | - | - |
| | 06 | 3 | 0.5 | 5.0 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 5.0 | | 12 | 0.. | - | - |
| | 18 | 3 | 0.5 | 5.0 | | 18 | 0.. | - | - |
| 28 | 00 | 3 | 0.5 | 5.2 | 06 | 00 | 0.. | - | - |
| | 06 | 3 | 0.6 | 5.0 | | 06 | 0,0 | - | - |
| | 12 | 3 | 0.5 | 5.0 | | 12 | 0,0 | - | - |
| | 18 | 3 | 0.5 | 5.2 | | 18 | 0,0 | - | - |
| 29 | 00 | 3 | 0.5 | 5.0 | 07 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.5 | 5.0 | | 06 | 0,0 | - | - |
| | 12 | ... | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 30 | 00 | 3 | 0.7 | 5.0 | 08 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - | | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - | | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - | | 18 | 0,0 | - | - |
| 31 | 00 | 0,0 | - | - | 09 | 00 | 0,0 | - | - |
| | 06 | 3 | 0.4 | 4.5 | | 06 | 0.. | - | - |
| | 12 | 3 | 0.4 | 4.5 | | 12 | 0.. | - | - |
| | 18 | 0,0 | - | - | | 18 | 0.. | - | - |

STATION : Port Blair (contd.)

MONTH : December, 1960.

| Date | Hour | K | Mean amplitude in micron. | Mean period in secs. | Date | Hour | K | Mean amplitude in micron. | Mean period in secs. |
|------|------|-----|---------------------------|----------------------|------|------|-----|---------------------------|----------------------|
| | GMT | | | | | GMT | | | |
| 10 | 00 | 0.. | - | - | 18 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 11 | 00 | 0.. | - | - | 19 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0.. | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 12 | 00 | 0.. | - | - | 20 | 00 | 0.. | - | - |
| | 06 | 0,0 | - | - | | 06 | ... | - | - |
| | 12 | 0,0 | - | - | | 12 | 3 | 0.4 | 7.5 |
| | 18 | 0,0 | - | - | | 18 | 3 | 0.4 | 7.5 |
| 13 | 00 | 0,0 | - | - | 21 | 00 | 3 | 0.4 | 7.5 |
| | 06 | 0.. | - | - | | 06 | 3 | 0.4 | 7.5 |
| | 12 | 0.. | - | - | | 12 | 3 | 0.4 | 7.5 |
| | 18 | 0.. | - | - | | 18 | 3 | 0.4 | 7.5 |
| 14 | 00 | 0.. | - | - | 22 | 00 | 3 | 0.4 | 7.5 |
| | 06 | 0.. | - | - | | 06 | ... | - | - |
| | 12 | 0.. | - | - | | 12 | 3 | 0.4 | 7.5 |
| | 18 | 0.. | - | - | | 18 | 3 | 0.4 | 7.5 |
| 15 | 00 | 0.. | - | - | 23 | 00 | 3 | 0.4 | 7.5 |
| | 06 | 0.. | - | - | | 06 | ... | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0,0 | - | - |
| 16 | 00 | 0.. | - | - | 24 | 00 | 0,0 | - | - |
| | 06 | 0.. | - | - | | 06 | 0.. | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0.. | - | - |
| 17 | 00 | 0.. | - | - | 25 | 00 | 0.. | - | - |
| | 06 | 0.. | - | - | | 06 | 0,0 | - | - |
| | 12 | 0.. | - | - | | 12 | 0,0 | - | - |
| | 18 | 0.. | - | - | | 18 | 0,0 | - | - |

STATION : Port Blair (contd.)

MONTH : Decem



From the ISC collection scanned by SISIMOS

| Date | Hour | K | Mean amplitude in micron. | Mean period in secs. | Date | Hour | K | Mean amplitude in micron. | Mean period in secs. |
|------|------|---|---------------------------|----------------------|------|------|---|---------------------------|----------------------|
|------|------|---|---------------------------|----------------------|------|------|---|---------------------------|----------------------|

| | | | | |
|----|----|-----|-----|-----|
| 26 | 00 | 0,0 | - | - |
| | 06 | ... | - | - |
| | 12 | 2 | 0.4 | 3.0 |
| | 18 | 2 | 0.4 | 3.0 |
| 27 | 00 | 2 | 0.4 | 3.0 |
| | 06 | 2 | 0.4 | 3.0 |
| | 12 | 2 | 0.4 | 3.0 |
| | 18 | 2 | 0.4 | 3.0 |
| 28 | 00 | 2 | 0.4 | 3.0 |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |

| | | | | |
|----|----|-----|---|---|
| 29 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |
| 30 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |
| 31 | 00 | 0,0 | - | - |
| | 06 | 0,0 | - | - |
| | 12 | 0,0 | - | - |
| | 18 | 0,0 | - | - |

