

JAN-MARCH '62

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Tehran

Page 155

SEISMOLOGICAL BULLETIN OF
INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

ms

Lat. 35°44'16" N. a = + 0.50773
Long. 51°23'08" E. b = + 0.63570
... 1360 m. c = + 0.58146

No June.

JANUARY 1962

- | | |
|---|--|
| 1. ePZ 18 19 48 S.H. | 6. ePZ 20 57 06 S.H.
Minor trace of local shock. |
| 1. ePZ 23 52 35 S.H.
ePPZ 55 37 G. | 7. PZ 01 27 00 S.H. |
| 2. eSE 00 02 39 G.
e(?)N 45 G.
H: 23 40 20.3 h: 27 Km.
Rat Is., Aleutian Is. | 7. PZ 10 08 59 S.H.
eSNE 13 40 G.
Initial motion: Condensation,
H: 10 03 12.8 h: 32 Km.
Yugoslavia. |
| 2. ePZ 08 01 45 S.H.
iSNE 54.8 S.H. | 8. ePZ 01 14 30 S.H.
SNE 25 02 S.H., G.
H: 01 00 24.2 h: 63 Km.
Near south coast of Dominican
Republic. Mag. 6½(Pas),
6¼-6½(Brk), 6(Pal). |
| 2. PZ 08 09 49.8 S.H.
iSNE 59.0 S.H. | 8. PZ 22 28 45 S.H.
eSNE 31 37 G.
H: 22 25 11.1 h: 208 Km.
Hindu Kush. |
| 2. PZ 08 24 41 S.H.
iSNE 49.7 S.H. | 9. PZ 12 51 52.5 S.H.
eSN 13 01 48 G.
H: 12 40 49.3 h: 78 Km.
Near coast of Hokkaido, Japan. |
| 2. ePZ 12 31 20 S.H.
ePPZ 32 59 S.H.
e(?)E 37 08 G.
eSE 38 08 G.
SSE 41 24 G.
Lr2E 49 41 G.
H: 12 22 58.7 h: 48 Km.
Svalbard region. | 10. ePZ 02 16 54 S.H. |
| 3. ePZ 21 44 42 S.H. | 10. ePZ 02 32 33 S.H. |
| 4. ePZ 04 46 29 S.H.
SNE 55 23 G.
H: 04 35 42.6 h: 56 Km.
Near Shikoku, Japan.
Mag. 6 (Brk). | 10. PZ 12 41 37.1 S.H., G.
SNE 45 47 S.H., G. |
| 4. PZ 05 14 58 S.H. | 11. ePZ 05 10 48 G.
ePPZ 11 33 G.
SE 15 29 G.
H: 05 05 01.6 h: 25 Km.
Near coast of central Yugoslavia.
Mag. 5¾(Pas). |
| 5. ePZ 04 30 48 S.H.
SE 33 56
Initial motion: Dilatation
H: 04 27 05.4 h: 182 Km.
Hindu Kush. | |

KEW OBSERVATORY
20 JUN 1962
RICHMOND, SURREY.

16.	ePZ	11 55 06	S.H.	23.	PZ	16 48 11	S.H.
	SE	58 45	G.	23.	ePZ	21 18 43	S.H.
16.	ePZ	18 29 59	S.H.		Minor trace of distant shock.		
16.	iPNEZ	22 17 41.3	S.H.	23.	ePZ	22 47 36	S.H.
	SNE	48.3	S.H.		e(?)E	55 22	G.
	Initial motion: Dilatation				e(?)E	58 28	G.
17.	ePZ	22 25 11	S.H.	24.	ePZ	02 12 30	S.H.
	eSNE	26 13	S.H.		eSNE	13 28	S.H.
18.	ePZ	02 22 19	S.H.	24.	ePZ	09 34 33	S.H.
	eSN	49	S.H.		Minor trace of local shock.		
18.	ePZ	07 55 38	S.H.	25.	ePZ	19 24 22	S.H.
	eSNE	57 37	S.H.		Minor trace of local shock.		
19.	iPZ	03 38 35.6	S.H.	26.	PZ	05 33 28.5	S.H.
	iSNE	39 28.0	S.H., G.		Minor trace of local shock.		
19.	PZ	06 12 42.5	S.H.	26.	iPZ	08 22 47.1	S.H., G.
	Minor trace of local shock.				iSNE	27 07.0	S.H., G.
19.	ePNEZ	19 43 14	S.H., G.		eS _o PZ	28 49	S.H.
	eSNE	47 32	G.	H:	08 17 37.0	h: 32 Km.	
H:	19 38 04.1	h: 38 Km.			Medi Sea, West of Crete.		
	Greece				Mag. 5 - 5 $\frac{1}{4}$ (Pal).		
19.	ePZ	22 23 34	S.H.	28.	ePZ	03 51 32	S.H.
	SE	28 02	G.		e(?)E	52 44	S.H.
H:	22 18 27.3	h: 60 KM.		28.	ePZ	21 33 24	S.H.
	Western and central Greece.				e(?)NE	57	S.H.
20.	PZ	03 32 38	S.H., G.	29.	iPZ	02 00 24	S.H.
	eSNE	34 00	S.H., G.		SNE	32	S.H.
	Iran.			30.	PZ	15 34 47.8	S.H.
21.	ePZ	02 57 20	S.H.		(?)NE	36 20	S.H.
21.	ePZ	10 32 25	S.H.	H:	15 22 49.4	h: 187 Km.	
21.	ePZ	22 16 52	S.H.		Miariana Is region		
22.	ePZ	07 34 02	S.H.	30.	PZ	17 24 40.5	S.H.
	eSNE	40 11	G.	H:	17 15 33.8	h: 63 Km.	
H:	07 26 45.3	h: 68 Km.			Laptev Sea.		
	Lake Baikal region.			31.	ePZ	00 09 30	S.H.
23.	iPZ	16 11 58.9	S.H.		SNE	12 39	S.H., G.
	eSN	36 24	G.		P _c PNE	14 15	G.
H:	15 59 20.4	h: 25 KM.		H:	00 05 57.0	h: 60 Km.	
	Fox Is., Aleutian Is.				Tadzhik S.S.R.		

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Height ... 1360 M. c = + 0.58146

Def Panel 6 255
**KEW
OBSERVATORY**
10018a
4 SEP 1962
**RICHMOND,
SURREY.** *lyz*

FEBRUARY 1962

- | | |
|---|---|
| 1. ePZ 00 59 23 S.H.
SN 01 03 03.8 G. | 5. PZ 23 06 43.5 S.H.
e(?)E 07 31 G.
H: 22 55 49.6 h: 151 Km.
Central Honshu, Japan. |
| 1. ePZ 01 46 25 S.H.
iSNE 39.8 S.H. | 6. PZ 21 59 45.5 S.H.
eSNE 22 00 34 S.H.,G. |
| 2. ePZ 03 57 36 S.H.
(?)N 58 14.7 G.
(?)N 59 56.5 G.
(?)Z 04 01 04.5 G. | 7. ePZ 00 01 51 S.H.
Minor trace of local shock. |
| 2. ePZ 08 05 18 S.H.
Initial motion: Condensation
H: 07 59 58.5 h: 0 Km.
Kazakh S.S.R. | 7. ePZ 03 58 57 S.H.
7. ePZ 08 28 40 S.H. |
| 2. ePZ 17 31 28 S.H.
H: 17 20 11.1 h: 49 Km.
Kurile Islands. | 8. ePZ 12 02 16 S.H.
SNE 13 24 G.
H: 11 49 13.9 h: 87 Km.
New Guinea. |
| 2. ePZ 18 14 50 S.H. | 8. ePZ 19 50 05 S.H.
H: 19 40 27.7 h: 43 Km.
Sumatra. |
| 3. PZ 00 50 44.5 S.H.
(?)E 01 01 11.5 G.
i(?)N 26.5 G.
e(?)N 14 12 G.
Initial motion: Condensation
H: 00 37 53.6 h: 17 Km.
North of New Guinea. | 8. PZ 20 11 26.7 S.H.
eSNE 12 43 G. |
| 3. ePZ 16 12 52 S.H.
eSN 14 02 S.H.,G. | 8. ePZ 21 33 24 S.H.
8. ePZ 22 06 57 S.H. |
| 4. ePZ 03 06 29 S.H.
eSN 16 14 G.
H: 02 54 42.1 h: 89 Km.
Celebes. | 10. PZ 15 36 22.8 S.H.
eSNE 29 S.H. |
| 4. PZ 21 41 20.5 S.H.
SE 51 03 G.
Initial motion: Condensation
H: 21 29 33.2 h: 17 Km.
South Atlantic Ocean. | 10. ePZ 18 03 47 S.H.
eSNE 05 59 G. |
| | 11. ePZ 10 14 01 S.H.
Minor trace of distant shock. |
| | 11. ePZ 19 12 52 S.H.
Minor trace of distant shock. |

12. ePZ 08 02 13 S.H.
eSNE 03 59 G.

13. ePZ 11 30 41 S.H.
eSNE 32 29 G.

14. eP₁Z 06 55 11 S.H.,G.
eP₂Z 26 S.H.
ePKSZ 58 02 S.H.
H: 06 36 01.3 h: 44 Km.
Near coast of Chile.
Mag. 7 $\frac{1}{2}$ (Pas), 7 $\frac{1}{2}$ (Brk).

14. ePZ 20 30 35 S.H.
SN 47.7 S.H.

15. ePZ 10 08 43 S.H.

15. ePZ 23 51 27 S.H.
Minor trace of deep shock.

16. ePZ 16 06 01 S.H.
Minor trace of distant shock.

18. ePZ 10 02 56 S.H.

18. e(?)Z 17 40 24 S.H.
ePPZ 44 38 G.
e(?)Z 46 39 G.
H: 17 25 17.3 h: 70 km.
Northern Colombia.

19. ePZ 00 27 28 S.H.

20. ePZ 00 14 22 S.H.
eSNE 41 G.

20. ePZ 09 24 32 S.H.
eSNE 31 27
H: 09 15 55.1 h: 29 Km.
Nicobar Islands.

20. ePZ 10 28 05 S.H.

20. PZ 16 16 47.3 S.H.,G.
ePPZ 19 15 G.
eSNEZ 25 51 G.
H: 16 05 44.6 h: 55 Km.
Near coast of Hokkaido, Japan

20. ePZ 22 10 13 S.H.
ePPZ 11 58 G.
ePPPZ 12 26 G.
eSNE 16 19 G.
H: 22 02 38.2 h: 25 Km.
Northern Burma.

22. ePZ 13 30 49 S.H.

22. ePZ 17 43 01 S.H.
iSN 03.0 S.H.

22. ePZ 22 28 45 S.H.
Minor trace of local shock.

23. ePNE 10 10 07 S.H.
eSNE 11 07 S.H.

23. ePPZ 20 39 24 G.
eSE 47 42 G.
H: 20 21 28.6 h: 25 KM.
New Britain.

24. ePZ 03 57 48 S.H.
eSNE 58 19 G.

24. ePZ 14 00 00 S.H.

27. ePNEZ 05 44 36 G.
eSNE 47 44 G.
H: 05 40 53.0 h: 100 km.
Hindu Kush.

27. eP₁Z 13 00 03 S.H.,G.
eP₂Z 02 44 G.
H: 12 40 48.9 h: 40 Km.
Near coast of central
Chile.
Mag. 6 $\frac{1}{4}$ +6 $\frac{1}{2}$ (Pas), 6(Brk).

27. ePZ 21 38 49 S.H.

28. ePZ 23 10 04 S.H.
eSNE 12 38 G.

Dup.

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Passer to
YSS
Kew Observatory
19 NOV 1962
Richmond Surrey

MARCH 1962

- | | |
|--|--|
| <p>✓ 1. ePZ 05 02 23 S.H.
Minor trace.</p> <p>✓ 1. ePZ 18 46 25 S.H.
Minor trace.</p> <p>✓ 2. eP'Z 00 00 13 S.H.
ePPPZ 02 02 S.H.
eSKSN 06 38 G.
H: 23 41 14.5 h: 73km.
Samoa Islands Mag. 6(Pas).</p> <p>✓ 2. ePZ 13 14 41 S.H.
e?NE 15 08 G.
H: 13 02 59.0 h: 30 km.
Off south coast of Mindanao,
P. I.</p> <p>✓ 3. ePZ 12 26 22 S.H.
eSNE 35 54 G.
H: 12 14 52.1 h: 90 km.
Near east coast of
Mindanao, P. I.</p> <p>✓ 6. ePZ 06 03 51 S.H.,G.
SNE 10 21 G.
e?NE 12 49 G.
H: 05 55 42.3 h: 18 km.
Andaman Islands.</p> <p>6. ePZ 08 31 28 S.H.
eSE 32 22 S.H.
Local shock.</p> <p>6. ePZ 19 12 00 G.
SNE 16.3 G.
Local shock.</p> <p>7. ePZ 05 27 21 S.H.
Minor trace of distant shock.</p> | <p>7. ePZ 11 12 17 S.H.,G.
epPZ 14 36 G.
eSNEZ 21 34 G.
H: 11 01 00.4 h: 680 km.
Mariana Islands.
Mag. 7(Pas), 6(Brk).</p> <p>7. ePZ 21 10 28 S.H.
eSNE 13 08 G.
H: 21 08 03.4 h: 25 km.
Iran.</p> <p>8. ePZ 00 07 29 S.H.
Minor trace.</p> <p>8. ePZ 02 28 05 S.H.
Minor trace of distant shock.</p> <p>8. PZ 10 58 31 S.H.
H: 10 47 03.9 h: 48 km.
Kurile Islands.</p> <p>8. ePZ 21 46 47 S.H.
eSNE 53 29 G.
H: 21 38 35.4 h: 25 km.
Republic of the Congo.</p> <p>9. ePZ 07 18 22 S.H.
Minor trace.</p> <p>9. ePZ 18 15 45 S.H.
Minor trace.</p> <p>10. ePZ 19 00 05 S.H.
Minor trace.</p> <p>11. ePZ 15 35 47 S.H.,G.
SNE 45 47 G.</p> <p>11. ePZ 16 28 02 S.H.
Minor trace.</p> |
|--|--|

11. ePZ 19 30 33 S.H.
eSNE 40 10 G.
H: 19 19 05.6 h: 25 km.
Near east coast of
Mindanao, P. I.
11. ePZ 21 43 13 S.H.
Minor trace of local shock.
12. ePZ 02 14 53 S.H.
eP_CPNE 19 48 G.
eS_CSE 26 29 G.
H: 02 11 09.6 h: 44 km.
Hindu Kush.
12. eP'Z 11 59 10 S.H.,G.
ePPZ 12 00 21 G.
epPZ 12 02 55 G.
H: 11 40 12.8 h: 58 km.
Near south coasts of
Panama and Costa Rica.
Mag. $6\frac{1}{4}$ (Pas), $6\frac{1}{2}$ (Pal).
15. ePZ 00 47 47 S.H.
Minor trace of distant shock.
15. ePZ 02 02 42 S.H.
H: 01 51 19.4 h: 43 km.
Kurile Islands region.
15. ePZ 14 45 41 S.H.
Minor trace.
15. ePZ 15 03 29 S.H.
e?NE 05 39 G.
16. ePZ 09 52 45 S.H.
Minor trace of local shock.
16. ePZ 17 13 09 S.H.
Minor trace of local shock.
16. ePZ 20 11 54 S.H.
Minor trace of distant shock.
17. ePZ 21 00 17 S.H.
ePPZ 03 34 G.
eSNE 10 21 G.
H: 20 47 31.7 h: 25 km.
North Atlantic Ocean.
18. ePZ 01 05 04 S.H.
eSNE 07 24 G.
18. ePZ 02 09 15 S.H.
Minor trace.
18. ePZ 05 39 25 S.H.
18. iPZ 15 35 59.7 S.H.,G.
eSNE 39 28 S.H.
H: 15 30 31.6 h: 25 km.
Initial motion of P:
Condensation, South Albania.
18. ePZ 20 28 46 S.H.
eSE 36 17 G.
H: 20 18 54.3 h: 43 km.
Kuangtung Province China.
19. PZ 06 06 06 S.H.,G.
eSE 16 22 G.
H: 05 54 24.4 h: 53 km.
Near south coast of Minahossa
Peninsula, Celebes Islands.
19. ePZ 20 31 30 S.H.
19. PZ 23 05 59 S.H.,G.
SN 06 44 S.H.,G.
Initial motion of P:
Dilatation, Iran.
20. ePZ 11 18 54 S.H.
Minor trace of distant shock.
21. PZ 23 08 12.3 S.H.,G.
iSNE 16 41.0 S.H.,G.
H: 22 57 51.2 h: 631 km.
Initial motion of P:
Dilatation, Java Sea.
22. PZ 00 30 06.0 S.H.,G.
pPZ 32 04.0 S.H.
iSNE 38 35.0 S.H.,G.
H: 00 19 43.1 h: 611 km.
Initial motion of P:
Dilatation, Java Sea.
22. iPZ 03 00 15.7 S.H.
iSNE 18.1 S.H.
Initial motion of P:
Condensation, Iran.

22. PZ 15 26 17.7 S.H.,G.
 epPZ 29 59 S.H.,G.
 eSN 36 15 G.
 H: 15 13 03.9 h: 25 km.
 Initial motion of P:
 Condensation, Near east coast
 of New Guinea. Mag. 5.3/4 (Brk).

22. ePZ 19 17 49 S.H.
 Minor trace of distant shock.

23. ePZ 11 53 39 S.H.
 eSE 55 15 G.

23. ePZ 20 43 30 S.H.
 eSNE 44 31 S.H.

24. ePZ 13 12 52 S.H.
 eSE 23 23 G.
 H: 12 59 30.9 h: 111 km.
 Near north coast of New Guinea.

25. ePZ 02 37 53 S.H.
 eSE 40 47 G.

26. ePZ 09 27 27 S.H.
 Minor trace of distant shock.

26. ePZ 12 16 37 S.H.
 eSE 25 29 G.
 H: 12 04 54.6 h: 25 km.
 Mid-Atlantic Ocean.

26. ePZ 15 34 00 S.H.
 Minor trace of distant shock.

26. PZ 16 41 09.2 S.H.
 e?N 46 52 G.
 e?E 47 54 G.
 e?Z 51 58 G.

28. ePZ 00 55 37 S.H.,G.
 eSNE 58 41 S.H.,G.
 H: 00 51 54.7 h: 108 km.
 Hindu Kush.

28. ePZ 05 27 18 S.H.
 eSNE 29 20 G.

29. ePZ 03 49 20 S.H.

29. ePZ 20 21 05 S.H.
 eSE 30 59 G.
 H: 20 09 01.9 h: 25 km.
 Halmahera region.

30. ePZ 05 31 54 S.H.
 Minor trace of distant shock.

31. ePZ 16 04 16 S.H.
 Minor trace of local shock.

31. ePZ 23 20 04 S.H.
 e?E 58 S.H.
 Iran.

31. PZ 23 37 35.0 S.H.,G.
 SNE 38 16.5 S.H.
 Iran.

May 62

Dup. Tehran

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APRIL 1962

- 1. iPZ 00 46 48.9 S.H. eSNE 48 50 S.H. H: 00 45 14.6, h: 33 km. East Iran.
1. ePZ 09 35 46 S.H. Minor trace of distant shock.
1. ePZ 11 00 19 S.H. eSE 01 02 S.H.
1. ePZ 12 12 46 S.H. Minor trace of distant shock.
1. ePZ 12 24 11 S.H. eGE 35 19 G. H: 12 11 51.0, h: 100 km. Alaska.
1. ePZ 20 45 52 S.H. Minor trace.
1. ePZ 21 30 46 S.H. Minor trace.
2. ePZ 00 26 53 S.H. e?NE 36 25 G. e?NE 55 G. H: 00 14 50.4, h: 205 km. Mariano Islands.
2. ePZ 12 18 44 S.H. Minor trace.
4. ePZ 05 46 03 S.H. eSNE 50 01 S.H. H: 05 41 07.4, h: 25 km. Crete.
4. ePZ 20 00 01 S.H. eSNE 03 58 G. H: 19 55 12.8, h: 27 km. Crete.

- 4. ePZ 20 55 46 S.H. eSNE 59 53 G. H: 20 51 05.2, h: 21 km. Crete.
4. ePZ 21 04 26 S.H. eSNE 08 26 G. H: 20 59 36.1, h: 25 km. Crete.
5. ePZ 05 47 30 S.H. Minor trace of distant shock.
5. ePZ 07 22 32 S.H. Minor trace of distant shock.
5. ePZ 07 38 17 S.H. Minor trace of distant shock.
6. ePZ 04 42 50 S.H. Minor trace.
6. ePZ 06 53 38 S.H. e?NE 54 18 S.H.
6. ePZ 17 10 18 S.H. H: 16 50 14.2, h: 33 km. Easter Island region.
6. ePZ 18 53 26 S.H. Minor trace.
6. ePZ 19 09 13 S.H. eSNE 31 S.H.
7. ePZ 06 34 21 S.H. eSN 45 12 G. H: 06 21 08.6, h: 50 km. Carolina Islands region. Mag. 6(Pas).
7. ePZ 14 47 19 S.H. eSNE 48 49 S.H.

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| 7. ePZ 21 40 54 S.H.
H: 21 35 28.1, h: 25 km.
Albania. | 12. ePZ 05 27 16 S.H.
H: 05 16 05.0, h: 26 km.
Near east coast of Honshu,
Japan. |
| 7. ePZ 22 18 28 S.H.
eSNE 21 25 G.
H: 22 14 46.5, h: 105 km.
Hindu Kush. | 13. ePZ 12 19 55 S.H.
e?E 22 28 S.H. |
| 8. ePZ 23 41 06 S.H.
Minor trace of deep shock. | 13. ePZ 18 42 02 S.H.
H: 18 35 58.3, h: 28 km.
Kazakh S.S.R.-China border. |
| 9. ePZ 09 06 40 S.H.
Minor trace of distant shock. | 15. ePZ 14 09 54 S.H. |
| 9. ePZ 10 41 12 S.H.
eSNE 45 59 G. | 15. ePZ 18 19 41 S.H.
eSE 28 58 G.
H: 18 08 27.5, h: 25 km.
Ascension Islands region. |
| 9. ePZ 20 20 19 S.H.
Minor trace of distant shock. | 15. ePZ 18 56 32 S.H.
eSN 19 05 48 G.
H: 18 45 17.4, h: 25 km.
Ascension Islands region. |
| 10. ePZ 03 17 42 S.H.
Minor trace of distant shock. | 16. ePZ 00 20 38 S.H.
eSN 25 09 G.
H: 00 15 15.7, h: 25 km.
Ionian Sea. |
| 10. ePZ 10 43 24 S.H.
Minor trace of distant shock. | 16. PNEZ 13 31 26.8 S.H.
iSN 40 45.1 G.
H: 13 20 15.1, h: 176 km.
South of Honshu, Japan. |
| 10. PZ 21 42 36.2 S.H.
eSNE 46 57 S.H.,G.
H: 21 37 12.6, h: 35 km.
Ionian Sea.
Mag. 5-5 $\frac{1}{4}$ (Pal). | 17. ePZ 07 11 12 S.H.
Minor trace of distant shock. |
| 10. ePZ 22 16 16 S.H.
H: 22 10 50.3, h: 25 km.
Ionian Sea. | 17. ePZ 10 09 30 S.H.
Minor trace of distant shock. |
| 11. ePZ 09 37 23 S.H.
H: 09 33 36.4, h: 97 km.
Hindu Kush. | 17. ePZ 11 39 17 S.H.
H: 11 33 51.0, h: 25 km.
Ionian Sea. |
| 11. ePZ 10 52 54 S.H.
SN 57 30.0 G.
H: 10 47 34.0, h: 43 km.
Ionian Sea. | 17. ePZ 21 05 17 S.H.
H: 20 54 13.4, h: 110 km.
Near east coast of Honshu,
Japan. |
| 12. PZ 01 03 52.1 S.H.
eSE 13 22 S.H.
H: 00 52 47.0, h: 68 km.
Near east coast of Honshu,
Japan. Mag. 7-7 $\frac{1}{4}$ (Pas),
63/4-7(Pal). | 17. ePZ 22 46 21 S.H.
ePPPZ 50 50 S.H.
H: 22 34 56.5, h: 25 km.
Mid-Atlantic Ocean. |

19. ePZ 11 57 06 S.H.
 eSN 58 58 S.H.
 H: 11 55 27.3, h: 25 km.
 Eastern Turkey.

19. ePZ 23 25 47 S.H.
 eSNE 33 37 G.
 e?N 49 25 G.
 H: 23 16 04.1, h: 0 km.
 Siberia, U. S. S. R.

20. PZ 06 01 53.9 S.H.
 ePPZ 05 17 G.
 ePPPZ 07 13 G.
 e?N 12 30 G.
 H: 05 47 55.3, h: 25 km.
 Near north coast of Haiti,
 Mag. $6\frac{1}{2}$ -63/4(Pas), 6(Pal),
 63/4-7(Brk).

23. ePZ 06 09 09 S.H.
 eSE 18 05 S.H.
 H: 05 58 04.9, h: 25 km.
 Hokkaido, Japan.
 Mag. $7-7\frac{1}{4}$ (Pas), 7(Pal).

24. ePZ 14 23 40 S.H.
 H: 14 19 53.8, h: 32 km.
 Hindu Kush.

24. ePZ 15 47 35 S.H.
 Minor trace of distant shock.

25. ePZ 01 15 59 S.H.
 e?Z 17 10 S.H.

25. PZ 15 58 36 S.H.
 H: 15 47 29.4, h: 56 km.
 Honshu, Japan.

26. ePZ 07 04 25 S.H.
 e?Z 08 15 S.H.
 e?Z 18 33 S.H.

26. ePZ 07 50 12 S.H.
 Local shock.

26. ePZ 17 16 50 S.H.
 Minor trace of distant shock.

27. ePZ 07 21 55 S.H.
 Minor trace of distant shock.

27. ePZ 08 25 21 S.H.
 Minor trace of local shock.

28. ePZ 11 23 27 S.H.
 SZ 27 13 G.
 H: 11 18 57.4, h: 40 km.
 Dodecanese Islands.

28. ePZ 12 48 17 S.H.,G.
 eSN 52 01 G.
 H: 12 43 49.1, h: 48 km.
 Dodecanese Islands.

28. ePZ 19 43 13 G.
 e?N 44 05 G.

30. PZ 02 37 27 S.H.
 SN 46 33.5 G.
 H: 02 26 30.0, h: 104 km.
 Honshu, Japan.

30. eP'Z 16 36 31 G.
 H: 16 16 47.8, h: 26 km.
 Tonga Islands region.

30. ePZ 23 58 36 S.H.
 MAY 1962

1. ePPPZ 00 00 14 G.
 eSN 05 06 G.
 H: 23 50 33.5, h: 25 km.
 Svalbard region.

Imp.

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Lat. $35^{\circ}44'16''$ N. a = + 0.50773
Leng. $51^{\circ}23'08''$ E. b = + 0.63570
Height ... 1360 M. c = + 0.58146

MAY 1962

- | | |
|--------------------------|--|
| 1. ePZ 23 30 25 S.H. | 7. PZ 17 50 59.5 S.H.,G. |
| ?E 31 06 S.H. | eSE 18 00 08 S.H.,G. |
| 2. ePZ 23 28 39 S.H. | H: 17 39 50.3, h: 25 km. |
| 3. ePZ 01 31 24 S.H. | Kurile Islands. Mag. 7 (Brk), |
| 3. ePZ 02 49 03 S.H. | 63/4 (Pas), 6 - 6 $\frac{1}{4}$ (Pal). |
| H: 02 37 56.6, h: 49 km. | 8. ePZ 23 58 49 S.H. |
| Off southeast coast of | 9. eSNE 00 03 01 G. |
| Hokkaido, Japan. | H: 23 54 01.7, h: 93 km. |
| 3. ePZ 03 53 39 S.H. | Sea of Crete. |
| 3. PZ 14 59 04.4 S.H. | 9. ePZ 01 52 20 S.H. |
| 3. ePZ 16 34 10 S.H. | eSNE 53 31 S.H. |
| 4. ePZ 10 30 39 S.H. | 9. ePZ 11 30 27 S.H. |
| eSNZ 55 S.H. | 9. ePZ 11 52 19 S.H. |
| 4. ePZ 10 46 57 S.H. | 9. ePZ 12 15 45 S.H. |
| SEZ 47 10 S.H. | eSE 18 42 G. |
| 4. ePZ 12 24 23 S.H. | ePcPE 21 08 G. |
| 5. iPZ 08 52 36.5 S.H. | H: 12 12 33.5, h: 96 km. |
| iSN 53 03.0 S.H. | Hindu Kush. |
| 5. ePZ 20 42 29 S.H. | 9. ePZ 14 16 59 S.H. |
| eSNE 55 S.H. | 9. iPZ 18 19 13.6 S.H. |
| 6. ePZ 18 51 07 S.H. | SE 22.0 S.H. |
| 6. eP'Z 19 18 56 S.H. | 9. ePZ 20 36 52 S.H. |
| ePPN 20 21 G. | 10. PZ 00 15 50.3 S.H. |
| H: 19 00 10.2, h: 25 km. | SNE 25 55.8 G. |
| Sandwich Islands region, | H: 00 03 40.2, h: 72 km. |
| Mag. 7.0 (Pas), 7 (Pal), | Alaska. Mag. 6 (Brk), |
| 63/4 - 7 (Brk). | 43/4 - 5 (Pal). |
| | 10. iPZ 05 24 50.3 S.H. |
| | eSE 35 14 G. |
| | H: 05 12 15.9, h: 43 km. |
| | Fox Islands. Aleutian |
| | Islands. Mag. 6 (Brk), |
| | 5 $\frac{1}{2}$ (Pal). |

Handwritten: *Handwritten:* *T.S.S. 29/11/62*

KEW
OBSERVATORY
29 NOV 1962
RICHMOND,
SURREY.

11. eP'Z 14 30 47 S.H.
 ePPZ 32 17 S.H.
 H: 14 11 51.9, h: 25 km.
 Near coast of Mexico.
 Mag. 7 (Pas), 7 - 7 $\frac{1}{4}$ (Brk).

12. ePZ 01 40 46 S.H.

12. ePZ 01 50 24 S.H.
 eSN 51 19 G.

15. PZ 05 36 13.3 S.H.
 ePPZ 39 39 S.H.
 H: 05 23 45.9, h: 34 km.
 Banda Sea. Mag. 7 - 7 $\frac{1}{4}$ (Pas),
 7 $\frac{1}{2}$ (Brk).

16. ePZ 03 04 36 S.H.

17. ePZ 12 08 46 S.H.

18. ePZ 00 37 09 S.H.

18. ePZ 05 49 14 S.H.
 eSE 51 14 S.H.

18. ePZ 18 57 48 S.H.

19. eP'Z 15 17 03 S.H.
 ePPZ 18 31 G.
 ePPPZ 21 11 G.
 H: 14 58 13.3, h: 20 km.
 Near coast of Mexico.
 Mag. 7 - 7 $\frac{1}{4}$ (Pas).

20. PZ 19 40 42.8 S.H.
 SNE 41 11.3 S.H.

21. PZ 12 09 51.5 S.H.,G.
 SZ 15 20 G.
 H: 12 02 50.6, h: 25 km.
 Chinghai Province, China.
 Mag. 7 - 7 $\frac{1}{4}$ (Pas),
 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$ (Pal).

21. ePZ 15 48 45 S.H.
 H: 15 41 46.8, h: 36 km.
 Chinghai Province, China.

21. ePZ 21 28 04 S.H.

21. ePZ 21 33 56 S.H.
 ePPPZ 36 00 G.
 H: 21 15 31.0, h: 379 km.
 Fiji Islands region.
 Mag. 6 $\frac{3}{4}$ - 7 (Pas).

22. P'Z 08 25 11.3 G.
 SKPZ 26 22 G.
 pPPZ 27 10 G.
 H: 08 06 38.7, h: 151 km.
 Santa Cruz Islands.
 Mag. 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$ (Pas),
 5 $\frac{3}{4}$ - 6 (Pal).

23. ePZ 22 01 58 S.H.

24. ePZ 08 33 11 S.H.

24. PZ 09 40 51.7 S.H.
 eSE 41 50 S.H.

25. ePZ 07 30 40 S.H.
 SNE 31 38 S.H.

26. ePZ 19 53 02 S.H.
 H: 19 44 17.5, h: 60 km.
 Nicobar Islands.

27. ePZ 15 45 19 S.H.

28. ePZ 01 54 37 S.H.

28. ePZ 10 21 15 S.H.
 H: 10 09 57.6, h: 158 km.
 South of Honshu, Japan.

29. ePZ 00 08 04 S.H.

29. PZ 11 28 57 S.H.
 SNE 29 06.9 S.H.

29. ePZ 21 59 54 S.H.
 ?Z 22 00 17.0 S.H.
 e?F 01 38 S.H.

30. ePZ 18 57 47 S.H.

31. ePZ 02 00 57 S.H.

31. PZ 06 40 01.9 S.H.
 eSNE 49 31 G.
 eSSN 51 19 G.
 H: 06 28 26.2, h: 257 km.
 Volcan Islands region.
 Mag. 6 $\frac{1}{2}$ (Pas).



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Lat. $35^{\circ}44'16''$ N. a = + 0.50773
Long. $51^{\circ}23'08''$ E. b = + 0.63570
Height ... 1360 M. c = + 0.58146

JULY 1962

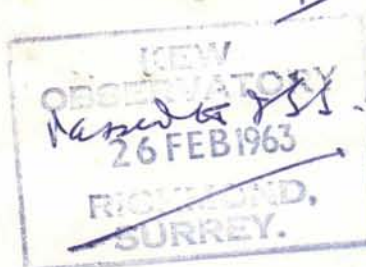
- | | |
|--|--|
| 1. ePZ 11 47 48 S.H.
eSNE 48 45 S.H.
H: 11 46 29.8, h: 46 Km.
Off coast of Azerbaijan
S. S. R. | 3. ePZ 19 32 46 S.H.
e?Z 34 04 S.H.
Distant shock. |
| 1. ePZ 21 28 09 S.H.
eSNE 31 49 G.
H: 21 23 41.7, h: 25 Km.
Sinkiang Province, China. | 3. ePZ 19 40 57 S.H.
Minor trace of distant shock. |
| 2. ePZ 01 25 53 S.H.
e?NE 27 13 G.
Distant shock. | 3. ePZ 21 29 21 S.H.
Minor trace. |
| 2. ePZ 03 25 37 S.H.
Distant shock. | 4. ePZ 05 15 36 S.H.
Local shock. |
| 2. ePZ 15 40 04 S.H.
e?N 41 31 G.
Distant shock. | 4. ePZ 12 19 31 S.H.
Minor trace. |
| 2. ePZ 16 10 35 S.H.
Minor trace. | 5. ePZ 03 17 02 S.H.
e?Z 19 00 S.H. |
| 3. ePZ 00 17 54 S.H.
Minor trace. | 5. ePZ 17 52 25 S.H.
eSNE 18 01 56 G.
H: 17 40 55.3, h: 23 Km.
South of Honshu, Japan. |
| 3. ePZ 06 33 16 S.H.
eSNE 35 34 S.H., G.
H: 06 31 08.5, h: 25 Km.
Iran. | 6. iPZ 02 17 34.0 S.H.
eSNE 22 00 G.
H: 02 12 19.9, h: 30 Km.
Arabian Sea, east of Socotra. |
| 3. ePZ 12 42 47 S.H.
e?NE 43 51 S.H. | 6. ePZ 09 21 38 S.H.
eSN 26 14 G.
eScSZ 33 01 G.
H: 09 16 15.0, h: 30 Km.
Ionian Sea.
Mag. 5 (Pal). |
| 3. ePZ 16 15 46 S.H.
e?Z 16 41 S.H. | 6. ePZ 15 59 51 S.H.
e?N 16 09 25 G.
H: 15 54 20.5, h: 25 Km.
Ionian Sea. |
| 3. ePZ 18 33 59 S.H.
Minor trace. | |



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|-----|-------|------------------------|------|--|--|
| 6. | ePZ | 23 09 02 | S.H. | | |
| | eSN | 11 51 | S.H. | | |
| | ePcP | 13 53 | S.H. | | |
| | H: | 23 05 32.2, h: 203 Km. | | | Hindu Kush. |
| 7. | PZ | 06 25 01.0 | S.H. | | |
| | epPZ | 28 12 | G. | | |
| | eSNE | 35 22 | G. | | |
| | H: | 06 12 48.9, h: 60 Km. | | | Rat Is., Aleutian Is. |
| 7. | ePZ | 12 52 34 | S.H. | | |
| | H: | 12 46 58.7, h: 25 Km. | | | Ionian Sea. |
| 8. | ePZ | 03 34 20 | S.H. | | |
| | eSNE | 44 35 | G. | | |
| | H: | 03 22 03.8, h: 60 Km. | | | Rat Is., Aleutian Is. |
| 8. | ePZ | 07 43 27 | S.H. | | |
| | | | | | Minor trace of distant shock. |
| 8. | ePZ | 20 58 14 | S.H. | | |
| | e?N | 21 00 07 | G. | | |
| | | | | | Distant shock. |
| 9. | ePZ | 05 36 29 | S.H. | | |
| | | | | | Minor trace of local shock. |
| 9. | ePZ | 06 09 11 | S.H. | | |
| | | | | | Minor trace of local shock. |
| 10. | ePZ | 10 10 40 | S.H. | | |
| | eSE | 14 42 | G. | | |
| | H: | 10 06 02.9, h: 25 Km. | | | Aegean Sea. |
| 11. | ePZ | 01 07 14 | S.H. | | |
| | eSNE | 09 58 | G. | | |
| | H: | 01 03 59.3, h: 25 Km. | | | Afghanistan. |
| 11. | ePZ | 12 51 24 | S.H. | | |
| | eSNE | 13 00 24 | G. | | |
| | H: | 12 40 30.7, h: 25 Km. | | | Panay, Philippine Islands. |
| 11. | ePZ | 16 35 12 | S.H. | | |
| | | | | | Minor trace of distant shock. |
| 11. | ePZ | 17 43 19 | S.H. | | |
| | eSNE | 38 | S.H. | | |
| | | | | | Local, probably foreshock of great Sept. 1st. earthquake. |
| 11. | ePZ | 19 23 55 | S.H. | | |
| | | | | | Minor trace of distant shock. |
| 12. | ePZ | 01 07 30 | S.H. | | |
| | | | | | Minor trace of local shock. |
| 12. | ePZ | 02 39 12 | S.H. | | |
| | | | | | Minor trace. |
| 12. | ePZ | 12 35 13 | S.H. | | |
| | e?NE | 37 46 | G. | | |
| | | | | | Distant shock. |
| 12. | ePZ | 16 03 58 | S.H. | | |
| | eSNE | 04 05 | S.H. | | |
| 13. | PZ | 03 43 00.5 | S.H. | | |
| | eSNE | 52 05 | G. | | |
| | H: | 03 32 00.5, h: 66 Km. | | | Panay, Philippine Islands. |
| 13. | ePZ | 07 54 32 | S.H. | | |
| | eSNE | 39 | S.H. | | |
| 13. | ePZ | 10 29 12 | S.H. | | |
| | eSNE | 57 | S.H. | | |
| 13. | PZ | 22 30 44.5 | S.H. | | |
| | eSNE | 40 08 | G. | | |
| | H: | 22 19 23.3, h: 59 Km. | | | Initial motion of P: from Z condensation. Komondorskie Is. region. |
| 14. | ePZ | 00 25 53 | S.H. | | |
| | | | | | Minor trace of deep shock. |
| 14. | ePZ | 06 46 45 | S.H. | | |
| | eSNE | 48 43 | S.H. | | |
| | H: | 06 44 26.5, h: 30 Km. | | | Iran. |
| 14. | ePZ | 16 04 08 | S.H. | | |
| | eScSN | 15 11 | G. | | |
| | H: | 15 58 53.7, h: 40 Km. | | | Tibet-India border. |

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|--|---|
| 14. ePZ 20 49 19 S.H.
Minor trace. | 21. ePZ 03 59 12 S.H.
Minor trace of local shock. |
| 15. PZ 06 58 13.3 S.H.
eSE 07 07 45 G.
H: 06 47 22.5, h: 103 Km.
Initial motion of P from
Z: Dilatation.
Honshu, Japan. | 21. iPZ 05 33 10.5 S.H.
SNEZ 17 S.H.
Initial motion of P from
Z: condensation. |
| 15. ePZ 21 57 13 S.H.
eSNE 22 01 03 G.
H: 21 52 16.7, h: 25 Km.
Gulf of Aden. | 21. ePZ 06 07 07 S.H.
e?N 11 20 G.
Distant shock. |
| 16. ePZ 16 50 12 S.H.
Minor trace. | 21. ePZ 17 32 30 S.H.
eSNE 35 35 G.
Hindu Kush region. |
| 16. ePZ 13 06 53 S.H.
H: 12 54 40.6, h: 39 Km.
Alaska. | 22. ePZ 00 12 38 S.H.
Minor trace of deep shock. |
| 17. eP'Z 05 51 35 S.H.
epPZ 54 32 S.H.
ePPZ 57 36 S.H.
H: 05 32 08.8, h: 26 Km.
Near coast of Chile. | 22. ePZ 00 32 05 S.H.
Minor trace. |
| 17. ePZ 17 31 29 S.H.
Distant shock. | 23. ePZ 01 25 00 S.H.
eSNE 48 S.H. |
| 18. ePZ 08 01 33 S.H.
Minor trace of local shock. | 23. ePZ 02 57 08 S.H.
eSNE 24 S.H. |
| 19. ePZ 12 51 08 S.H.
eSNE 18 S.H. | 23. ePZ 14 27 18 S.H.
e?NE 39 S.H. |
| 19. iPZ 14 43 04.0 S.H.
iSNEZ 12.7 S.H.
Initial motion of P from
Z: Dilatation. | 24. ePZ 16 20 48 S.H.
e?N 22 21 G.
Distant shock. |
| 20. ePZ 13 55 01 S.H.
Minor trace. | 24. ePZ 16 34 13 S.H.
ePPZ 36 19 S.H.
e?N 40 39 G.
e?N 45 51 G.
H: 16 23 10.8, h: 21 Km.
Sulu Sea. |
| 21. ePZ 00 16 09 S.H.
Minor trace of distant
shock. | 24. ePZ 18 54 13 S.H.
Minor trace. |
| 21. ePZ 03 07 56 S.H.
eSNEZ 08 50 S.H.
H: 03 07 03.0, h: 41 Km.
Northern Iran. | 24. ePZ 21 28 24 S.H.
Minor trace. |
| | 24. ePZ 21 37 14 S.H.
Minor trace. |
| | 25. ePZ 04 56 25 S.H.
Minor trace. |

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|-----|-------------------------|-----------------------------|---------|-----|------------------------------------|--------------|------|
| 25. | ePZ | 05 39 12 | S.H. | 29. | ePZ | 00 33 51 | S.H. |
| | | Minor trace of local shock. | | | | Minor trace. | |
| 25. | ePZ | 22 48 08 | S.H. | 30. | ePZ | 01 35 42 | S.H. |
| | | Minor trace of deep shock. | | | eSN | 36 05 | G. |
| 26. | ePZ | 04 34 40 | S.H. | 30. | ePZ | 14 06 21 | S.H. |
| | | Minor trace of deep shock. | | | eSNE | 07 03 | S.H. |
| 26. | ePZ | 08 30 03 | G. | 30. | ePZ | 17 30 04 | S.H. |
| | epPZ | 34 47 | S.H.,G. | | epPZ | 33 58 | G. |
| | ePKSZ | 36 53 | G. | | eSNE | 41 18 | G. |
| | ePSZ | 44 57 | G. | H: | 17 16 44.4, h: 25 Km. | | |
| H: | 08 14 41.8, h: 21 Km. | | | | Near north coast of New Guinea. | | |
| | Mag. 63/4(Pas), 7(Brk). | | | | Mag. 63/4-7(Pas), 7(Brk), 7(Pal). | | |
| 27. | ePZ | 19 04 24 | S.H. | 30. | ePZ | 20 34 43 | S.H. |
| | e?N | 05 37 | G. | | eP'Z | 38 36 | G. |
| 27. | PZ | 20 00 28.5 | S.H. | H: | 20 18 49.3, h: 45 Km. | | |
| | | Deep shock. | | | Western Colombia. | | |
| 28. | ePZ | 00 24 33 | S.H. | | Mag. 63/4(Pas), 63/4(Brk), 6(Pal). | | |
| | | Minor trace. | | 31. | ePZ | 01 30 31 | S.H. |
| 28. | ePZ | 02 25 14 | S.H. | | eSNE | 34 52 | G. |
| | | Minor trace of local shock. | | H: | 01 25 32.7, h: 109 Km. | | |
| 28. | ePZ | 12 22 47 | S.H. | | Near south coast of Greece. | | |
| | | Minor trace of deep shock. | | 31. | ePZ | 02 32 22 | S.H. |
| 28. | ePZ | 15 17 58 | S.H. | | epPZ | 36 23 | S.H. |
| | eSN | 18 13 | G. | | eSN | 43 39 | G. |
| 28. | ePZ | 19 54 12 | S.H. | H: | 02 19 05.2, h: 20 Km. | | |
| | | Minor trace of deep shock. | | | Near north coast of New Guinea. | | |
| 28. | ePZ | 20 57 44 | S.H. | 31. | ePZ | 05 19 57 | S.H. |
| | | Minor trace of deep shock. | | | eSN | 28 42 | G. |
| | | | | H: | 05 09 17.5, h: 33 Km. | | |
| | | | | | Near coast of Shikoku, Japan. | | |
| | | | | 31. | ePZ | 18 48 33 | S.H. |
| | | | | | | Minor trace. | |



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Height ... 1360 M. c = + 0.58146

AUGUST 1962

- | | |
|---|--|
| 1. ePZ 04 30 13 S.H. | 3. iP'Z 09 15 10.0 S.H.,G. |
| ePZ 25 S.H. | pP'Z 51 G. |
| e?NEZ 31 35 S.H.,G. | epPZ 17 03 G. |
| | ePPPZ 40 G. |
| 1. ePZ 04 50 13 S.H.,G. | eSPPZ 56 G. |
| epPZ 54 14 S.H.,G. | i?Z 18 13 G. |
| eSN 05 01 57 G. | SKSE 22 06 G. |
| H: 04 36 57.6, h: 33 Km. | ?E 23 51 G. |
| Near north coast of New Guinea. | PSKSE 26 53 G. |
| Mag. $6\frac{1}{2}$ -63/4(Pas), 7(Brk), | H: 08 56 12.1, h: 71 Km. |
| $6\frac{1}{2}$ (PAL). | Initial motion of the |
| | onset: Dilatation. |
| 1. ePZ 05 42 56 S.H. | Northern Chile-Argentine |
| Minor trace of distant shock. | border. |
| | Mag. $7-7\frac{1}{4}$ (Pas), 6.8(Brk). |
| 1. ePZ 15 55 01 S.H. | 3. ePZ 11 08 13 S.H. |
| H: 15 47 45.5, h: 25 Km. | eSNE 11 34 G. |
| Kansu Province, China. | i?Z 13 07 S.H. |
| | H: 11 04 03.6, h: 25 Km. |
| 1. ePZ 16 40 55 S.H. | Kirghiz, S.S.R. |
| eSNEZ 43 23 S.H.,G. | |
| H: 16 38 56.4, h: 33 Km. | 3. ePZ 14 10 06 S.H. |
| Iraq. | e?NEZ 11 26 S.H.,G. |
| | Minor trace of distant shock. |
| 1. ePZ 22 51 19 S.H. | |
| Minor trace. | 3. ePZ 18 06 21 S.H. |
| | eSNEZ 09 18 S.H.,G. |
| 2. ePZ 14 03 13 S.H. | H: 18 02 45.8, h: 209 Km. |
| eSNE 04 10 S.H.,G. | Hindu Kush. |
| Local shock. | |
| | 4. ePZ 17 19 57 S.H. |
| 2. ePZ 15 36 36 S.H. | Minor trace. |
| eSN 40 07 S.H.,G. | |
| H: 15 32 20.9, h: 33 Km. | 4. ePZ 19 56 08 S.H. |
| West Pakistan. | Minor trace. |
| | |
| | 5. ePZ 09 15 53 S.H. |
| | eSN 22 01 G. |
| | H: 09 08 45.8, h: OKm. |
| | H - bomb. |
| | Novaya Zemlyu. |

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|--|--|
| 5. ePZ 10 30 18 S.H.
Minor trace. | 10. ePZ 23 45 30 S.H.
e?NEZ 49 41 G.
Distant shock. |
| 5. ePZ 14 48 23 S.H.
Minor trace. | 11. epPZ 02 05 32 S.H.
epP'NEZ 08 19 S.H.,G.
H: 01 47 39.6, h: 638 Km.
Fiji Islands. |
| 5. ePZ 22 57 08 S.H.
Minor trace. | 11. PZ 08 25 49 S.H.,G.
eSNE 34 03 G.
H: 08 15 43.7, h: 140 Km.
Off NE coast of Formosa.
Mag. 6(Pas), 5-5½(Pal). |
| 6. ePNEZ 01 47 06 S.H.,G.
SNE 56 42 G.
H: 01 35 30.5, h: 48 Km.
North Atlantic Ocean.
Mag. 6½(Pas), 5½(Pal). | 11. ePZ 18 23 49 S.H.
Minor trace of deep shock. |
| 6. ePZ 02 33 32 S.H.
?NE 34 50 G. | 11. ePZ 23 28 29 S.H.
Minor trace of deep shock. |
| 6. ePZ 06 06 44 S.H.
eSNE 07 50 G. | 12. ePZ 07 22 46 S.H.
Minor trace of deep shock. |
| 6. ePZ 09 02 42 S.H.
Minor trace of distant shock. | 12. ePZ 08 17 15 S.H.
eSNE 18 04 S.H. |
| 6. eP'Z 21 11 19 S.H.,G.
pPZ 14 50 S.H.,G.
H: 20 51 56.8, h: 50 Km.
Kermadec Islands region.
Mag. 6(Brk), 5½(Pal). | 12. ePZ 21 47 35 S.H.
Minor trace of deep shock. |
| 8. ePZ 11 07 32 S.H.
Minor trace. | 12. ePZ 22 07 15 S.H.
Minor trace of deep shock. |
| 8. ePZ 18 46 33 S.H.
Minor trace. | 12. ePZ 22 14 59 S.H.
e?Z 17 13 G.
Probably deep shock. |
| 8. ePZ 19 45 54 S.H.
Minor trace. | 13. ePZ 05 58 20 S.H.
eSNE 59 02 S.H. |
| 9. ePZ 10 55 10 S.H.
Minor trace. | 13. ePZ 06 56 37 S.H.
Minor trace of distant shock. |
| 10. ePZ 00 50 20 S.H.
Minor trace. | 13. ePZ 13 23 24 S.H.
e?N 24 59 G. |
| 10. ePZ 14 26 46 S.H.
Minor trace of deep shock. | 13. ePZ 16 31 08 S.H.
Deep shock. |
| 10. ePNEZ 21 13 48 S.H.,G.
eSNE 21 48 G.
H: 21 03 59.2, h: 33 Km.
North Atlantic Ocean.
Mag. 4½ (Pal). | 13. ePZ 20 19 18 S.H.
Minor trace of deep shock. |

14. ePZ 01 29 59 S.H.
Minor trace.
14. ePZ 03 34 00 S.H.
e?Z 35 24 S.H.
14. ePZ 04 52 14 S.H.
Minor trace of deep shock.
14. ePZ 07 29 47 S.H.
eSNZ 32 08 G.
H: 07 27 44.8, h: 34 Km.
Iran.
14. ePZ 07 58 11 S.H.
Minor trace of local shock.
14. ePZ 20 06 10 S.H.
Minor trace of deep shock.
15. ePZ 03 22 52 S.H.
Minor trace of deep shock.
15. ePZ 03 57 55 S.H.
Minor trace.
15. ePZ 05 14 45 S.H.
Minor trace of deep shock.
15. ePZ 08 30 59 S.H.
Minor trace.
15. ePZ 11 33 17 S.H.
Minor trace of deep shock.
15. ePZ 13 13 32 S.H.
eSE 17 35 G.
H: 13 08 42.0, h: 33 Km.
Socotra Islands region.
16. ePZ 10 04 30 S.H.
e?Z 05 22 S.H.
Probably local shock.
17. ePZ 05 15 30 S.H.
H: 05 04 31.5, h: 33 KM.
Panay region, Philippine Is.
18. ePZ 16 56 43 S.H.
H: 16 43 54.3, h: 32 Km.
Central Alaska.
Mag. $6-6\frac{1}{4}$ (Pas), $5\frac{1}{4}-5\frac{1}{2}$ (Pal).
18. ePZ 17 58 34 S.H.
H: 17 46 14.9, h: 32 Km.
Central Alaska.
Mag. $6-6\frac{1}{4}$ (Pas), $5\frac{1}{2}-5\frac{1}{4}$ (Pal).
19. ePZ 18 32 06 S.H.,G.
eSNZ 36 30 G.
H: 18 26 38.6, h: 33 Km.
Initial motion of P:
condensation.
North West Sinking Province.
Mag. $5\frac{3}{4}-6$ (Pal).
19. ePZ 23 32 04 S.H.
Minor trace of deep shock.
20. ePZ 13 09 55 S.H.
Minor trace.
20. ePZ 23 49 42 S.H.
e?N 51 25 G.
21. ePZ 00 27 25 S.H.
eSN 29 09 G.
21. iPZ 09 43 15.4 S.H.
eSNEZ 18 S.H.
Initial motion of P:
condensation.
21. iPZ 16 44 01.9 S.H.
Initial motion of P:
condensation.
local shock.
21. ePZ 17 42 24 S.H.
Minor trace of deep shock.
21. PZ 18 15 04.0 S.H.,G.
eSN 20 01 S.H.
H: 18 09 06.8, h: 36 Km.
Italy.
21. ePZ 18 25 30 S.H.
H: 18 19 33.3, h: 34 Km.
Italy.
21. ePZ 18 50 55 S.H.
Minor trace of distant shock.

- | | | | | | | | |
|-----|-------------------------------|----------|---------|-----|-------------------------------|------------|------|
| 21. | eP'Z | 21 25 33 | S.H. | 26. | ePZ | 23 43 56 | S.H. |
| | ePPPZ | 29 56 | S.H. | | eSN | 54 39 | S.H. |
| | SKKS | 34 38 | S.H. | H: | 23 30 30.0, h: 50 Km. | | |
| | SKKKS | 35 11 | G. | | New Guinea. | | |
| | H: 21 06 00.1, h: 55 Km. | | | | | | |
| | Kermadec Islands region. | | | 27. | ePZ | 02 29 14 | S.H. |
| 22. | ePZ | 04 44 16 | S.H. | | Minor trace of deep shock. | | |
| | Minor trace. | | | 27. | ePZ | 14 28 05 | S.H. |
| 22. | ePZ | 13 10 42 | S.H. | | e?E | 31 03 | G. |
| | Minor trace of local shock. | | | | Minor trace of distant shock. | | |
| 23. | ePZ | 02 20 46 | S.H. | 27. | ePZ | 16 31 13 | S.H. |
| | Minor trace. | | | | Minor trace of deep shock. | | |
| 23. | ePZ | 10 15 22 | S.H. | 27. | ePZ | 19 16 17 | S.H. |
| | eSNE | 17 44 | G. | | eSN | 19 03 | G. |
| | H: 19 12 48.9, h: 210 Km. | | | | Hindu Kush. | | |
| 23. | ePZ | 12 58 34 | S.H. | 28. | ePZ | 08 24 22 | S.H. |
| | Minor trace of deep shock. | | | | Minor trace of deep shock. | | |
| 24. | ePZ | 07 08 05 | S.H.,G. | 28. | ePZ | 09 59 14 | S.H. |
| | Minor trace. | | | | eSNE | 10 01 56 | G. |
| 25. | ePZ | 00 58 15 | S.H. | 28. | iPZ | 11 04 54.0 | G. |
| | e?NZ | 01 07 13 | G. | | SNEZ | 08 58 | G. |
| 25. | epPN | 08 49 38 | S.H. | H: | 10 59 58.5, h: 120 Km. | | |
| | PPNZ | 52 41 | G. | | Initial motion of P: | | |
| | PPPZ | 56 42 | G. | | condensation. | | |
| | H: 08 31 48.7, h: 561 Km. | | | | Greece. | | |
| | Fiji Islands. | | | | Mag. 63/4 (Pas). | | |
| 26. | ePZ | 04 28 36 | S.H. | 28. | ePZ | 22 53 43 | S.H. |
| | Minor trace. | | | | eSNE | 59 22 | G. |
| 26. | ePZ | 07 00 05 | S.H. | H: | 22 46 00.8, h: 33 Km. | | |
| | eSN | 09 20 | G. | | Northwest of chagos Islands | | |
| | H: 06 48 57.1, h: 38 Km. | | | | region. | | |
| | Near east coast of Honshu, | | | 29. | ePZ | 09 19 37 | S.H. |
| | Japan. | | | H: | 09 12 00.4, h: 33 KM. | | |
| 26. | ePZ | 09 50 20 | S.H. | | Northwest of Chagos Islands | | |
| | e?E | 53 05 | S.H. | | region. | | |
| | Minor trace of distant shock. | | | 29. | ePZ | 14 12 15 | S.H. |
| 26. | ePZ | 10 29 59 | S.H. | | Minor trace. | | |
| | Minor trace. | | | 29. | ePZ | 15 25 12 | S.H. |
| 26. | ePZ | 15 27 50 | S.H. | | Minor trace. | | |
| | eSN | 30 19 | G. | 29. | ePZ | 18 01 14 | S.H. |
| | | | | | Minor trace of local shock. | | |

29. ePZ 22 49 20 S.H.
eSN 57 14 G.
H: 22 36 53.9, h: 33 Km.
Near east coast of Honshu,
Japan.

30. ePZ 17 36 06 S.H.
Minor trace.

31. ePZ 16 37 49 S.H.
Minor trace of deep shock.

31. ePNEZ 17 15 22 S.H.
eSN 25 36 G.

H: 17 02 43.4, h: 26 Km.
Initial motion of P:
condensation.
Rat Is. Aleutian Is.
Mag. $6\frac{3}{4}$ (Pas), $6-6\frac{1}{4}$ (Pal).

31. ePZ 18 08 46 S.H.
Minor trace of distant shock.

Dmp *[Signature]*

SEISMOLOGICAL BULLETIN OF
INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

Lat. $35^{\circ}44'16''$ N. a = + 0.50773
Long. $51^{\circ}23'08''$ E. b = + 0.63570
Height ... 1360 M. c = + 0.58146

SEPTEMBER 1962

1. ePNZ 00 43 20 S.H.,G.	4. ePZ 06 13 00 S.H.
e?NE 47 34 G.	eSE 13 19 S.H.
e?NE 50 56 G.	4. ePZ 06 25 12.5 S.H.
e?Z 53 22 G.	eSZ 25 35 S.H.
1. ePZ 03 58 26 S.H.,G.	4. ePZ 06 39 22 S.H.
eSN 04 08 42 G.	eSNEZ 44 S.H.
H: 03 46 05.0, h: 25Km.	4. ePZ 06 48 35 S.H.
Rot Is. Aleution Is.	eSE 59 S.H.
Mag. $6\frac{1}{2}$ (Pas), 6(Pal).	4. ePZ 07 01 07 S.H.
1. ePZ 04 54 02 S.H.,G.	eSNEZ 28 S.H.
ePPSM05 06 13 G.	4. ePZ 07 21 10 S.H.
H: 04 41 41.5, h: 37 Km.	eSZN 28 S.H.
Rat Is. Aleution Is.	4. iPZ 07 30 05.2 S.H.
1. eP'Z 05 10 39 S.H.	SZEN 22.5 S.H.
ePPZ 11 54 S.H.	4. ePZ 07 49 39 S.H.
ePPPZ 13 51 S.H.	eSZ 50 00 S.H.
H: 04 52 14.5, h: 244 Km.	4. ePZ 07 51 14 S.H.
New Hebrides Islands.	eSZ 36.5 S.H.
1. ePNZ 08 03 28 S.H.,G.	4. iPENZ 13 30 32 S.H.
eSN 13 38 G.	H: 13 30 40.9, h: 24 Km.
H: 07 51 08.2, h: 42 Km.	Northwest Iran.
Rat Islands. Aleution Is.	12. iPZ 06 20 40.8 S.H.
Mag. $6\frac{1}{2}$ (Pas), 6 (Pal).	SE 21 02 S.H.
1. ePZ 15 04 33 S.H.,G.	Dilatation.
eSNEZ 07 50 S.H.,G.	12. PZ 07 15 21.5 S.H.
H: 15 01 04.6, h: 46 Km.	eSNEZ 40 S.H.
Near coast of west Pakistan.	12. ePZ 07 25 06.7 S.H.
1. iPZNE19 21 03 S.H.,G.	SNE 26.7 S.H.
H: 19 20 38.5, h: 21 Km.	12. ePZ 08 22 50.9 S.H.
Northwest Iran. Over 10000,	eSE 23 08 S.H.
killd, many injured.	
Dilatation.	
Mag. $7\frac{1}{4}$ (Pas), $7\frac{3}{4}$ (Brk),	
7(Pal).	
The detail of aftershocks	
will be report separately.	

Passed to JSS by [Signature]

KEY OBSERVATORY
26 MAR 1963
RICHMOND, SURREY.

12.	ePZ	08 25 27	S.H.	13.	ePZ	01 52 02	S.H.
	eSNE	43	S.H.		eSNE	24	S.H.
12.	PZ	09 42 08.2	S.H.	13.	ePZ	03 18 59	S.H.
	iSNEZ	30	S.H.				
12.	PZ	10 01 47.1	S.H.	13.	ePZ	03 50 17	S.H.
	Minor trace of local shock.				eSEZ	37	S.H.
12.	iPZ	18 49 55.2	S.H.	13.	ePZ	04 21 36	S.H.
	eSNEZ	50 11	S.H.		eSEZ	56	S.H.
12.	PZ	20 56 56	S.H.	13.	ePZ	04 51 19	S.H.
	eSNE	57 13	S.H.		eSEZ	37	S.H.
12.	ePZ	21 00 13	S.H.	13.	ePZ	04 51 45	S.H.
	eSE	03 04	S.H.		eSEZ	52 04	S.H.
H:	20 57 00.4, h: 50 Km.			13.	ePEN	05 37 21	S.H.
	Hindu Kush				iSNE	45	S.H.
	Mag. $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas), 6 (Pal).			13.	ePNE	05 50 22	S.H.
12.	ePZ	22 26 10	S.H.		SNE	42	S.H.
	eSZ	28	S.H.				
12.	ePZ	22 34 07	S.H.	13.	ePZ	07 43 23	S.H.
	eSNE	25	S.H.		eSNEZ	43	S.H.
12.	PZ	23 15 01.4	S.H.	13.	ePZ	08 19 06	S.H.
	eSNEZ	21	S.H.		eSEZ	23	S.H.
13.	ePZ	00 06 10	S.H.	13.	iPZ	10 28 12	S.H.
	eSEZ	33	S.H.		iSNEZ	36	S.H.
13.	ePZ	00 13 09	S.H.	13.	ePZ	10 33 41	S.H.
					eSNE	34 03	S.H.
13.	ePZ	01 19 05	S.H.	13.	ePZ	10 50 48	S.H.
	eSEZ	24	S.H.		eSNEZ	51 11	S.H.
13.	ePZ	01 38 07	S.H.				
	eSEZ	24	S.H.				
13.	ePZ	01 46 27	S.H.				
	eSEZ	46	S.H.				

13.	ePZ	13 03 58	S.H.	14.	iPZ	04 55 16	S.H.
	eSEZ	04 20	S.H.		iSEZ	39	S.H.
13.	ePZ	13 46 55	S.H.	14.	ePZ	07 39 12	S.H.
	eSNE	47 18	S.H.		eSZ	33	S.H.
13.	ePZ	14 53 32	S.H.	14.	ePZ	09 13 00	S.H.
	eSNE	-57	S.H.		eSZ	33	S.H.
13.	iPZ	15 23 12	S.H.	14.	iPZ	12 07 28.5	S.H.
	iSNEZ	32	S.H.		SEZ	45.5	S.H.
13.	PZ	15 37 03	S.H.	14.	ePZ	14 37 46	S.H.
	eSNEZ	22	S.H.		iSE	38 05.3	S.H.
13.	ePZ	15 49 29	S.H.	14.	ePZ	14 49 31	S.H.
	eSEZ	47	S.H.		iSEZ	49.4	S.H.
13.	iPZ	16 39 16	S.H.	14.	ePZ	15 23 34	S.H.
	iSNEZ	33	S.H.		SEZ	54	S.H.
13.	ePZ	18 56 28	S.H.	14.	PZ	15 56 31	S.H.
	eSEZ	51	S.H.		iSEZ	50.6	S.H.
13.	iPZ	19 26 06	S.H.	14.	ePZ	16 38 29	S.H.
	iSNEZ	25.5	S.H.		eSE	48	S.H.
13.	ePZ	20 08 18	S.H.	14.	ePZ	17 18 53	S.H.
	eSNEZ	40	S.H.		eSE	19 14	S.H.
13.	ePZ	21 06 56	S.H.	14.	ePZ	20 07 56	S.H.
	eSEZ	07 12	S.H.		eSEZ	08 15	S.H.
13.	PZ	23 17 39	S.H.	15.	PZ	06 05 41	S.H.
	iSNE	59	S.H.		iSEZ	58.5	S.H.
14.	iPZ	00 16 59	S.H.	15.	ePZ	08 11 32	S.H.
	iSNE	17 15.5	S.H.		Minor trace of local shock.		
14.	ePZ	00 42 17	S.H.				
	SNE	40	S.H.				

15.	ePZ	10 55 33	S.H.	15.	iPZ	23 14 04	S.H.
	SEZ	54.6	S.H.		SEZ	17	S.H.
15.	ePZ	11 51 09	S.H.	15.	iPZ	23 57 43	S.H.
	eSEZ	26	S.H.		iSNEZ	58 01	S.H.
15.	PZ	12 19 25	S.H.	16.	ePZ	00 44 55	S.H.
	SEZ	44	S.H.		eSNE	45 09	S.H.
15.	ePZ	12 36 08	S.H.	16.	ePZ	02 29 00	S.H.
	eSEZ	26	S.H.		eSE	19	S.H.
15.	iPZ	15 21 52	S.H.	16.	ePZ	02 39 39	S.H.
	SEZ	22 08.5	S.H.		eSEZ	40 03	S.H.
	Compression.						
15.	iPZ	15 40 01.6	S.H.	16.	PZ	03 34 22	S.H.
	iSEZ	21.6	S.H.		SZ	39.5	S.H.
	Compression.						
15.	ePZ	17 02 33	S.H.	16.	ePZ	04 08 10	S.H.
	eSZ	52	S.H.		eSEZ	33	S.H.
15.	iPZ	18 58 34.8	S.H.	16.	iPZ	04 42 57.5	S.H.
	SEZ	52.4	S.H.		iSEZ	43 17	S.H.
15.	ePZ	20 25 23	S.H.	16.	ePZ	05 55 20	S.H.
	eSEZ	47	S.H.		Minor trace of local shock.		
15.	PZ	21 40 18.8	S.H.	16.	iPZ	07 42 27	S.H.
	eSEZ	36	S.H.		iSZ	45	S.H.
15.	ePZ	22 43 55	S.H.	16.	ePZ	09 23 51	S.H.
	Minor trace of local shock.				SZ	24 10.5	S.H.
15.	PZ	23 02 18	S.H.,G.	16.	PZ	10 06 56	S.H.
	SNEZ	11 49	S.H.,G.		iSEZ	07 19	S.H.
H:	22 50 46.5, h: 33 Km.			16.	iPZ	12 02 47.5	S.H.
	Kurile Islands.				i?EZ	03 35	S.H.
	Mag. $6\frac{1}{2}$ (Pas), 6 (Pal).						

16.	ePZ	13 04 23	S.H.	17.	iPZ	21 33 48.6	S.H.
	eSZ	39	S.H.		iSNEZ	34 08.6	S.H.
16.	ePZ	13 11 16	S.H.	17.	ePZ	21 42 28	S.H.
	eSZ	30	S.H.		eSEZ	47	S.H.
16.	ePZ	13 52 28	S.H.	17.	iPZ	23 14 14.6	S.H.
	Minor trace of local shock.				SEZ	32.6	S.H.
16.	ePZ	16 08 33	S.H.	18.	ePE	00 36 41	S.H.
	eSZ	53	S.H.		eSE	56	S.H.
16.	ePZ	16 31 09	S.H.	18.	eP'Z	00 47 55	G.
	eSZ	27	S.H.		ePPZ	49 08	G.
16.	ePZ	18 09 28	S.H.	H: 00 29 05.2, h: 33 Km.			
	SEZ	49	S.H.	South of Panama.			
16.	iPZ	18 26 13.4	S.H.	Felt: Chiriqui province.			
	eSEZ	31	S.H.	Mag. 7 (Pas), 7 (Brk)			
16.	iPZ	20 45 41.9	S.H.	6½ - 6¾/4 (Pal).			
	SZ	59	S.H.	18.	ePE	01 44 48	S.H.
16.	ePZ	21 06 34	S.H.		eSE	45 07	S.H.
	SZ	56	S.H.	18.	ePE	02 30 41	S.H.
16.	iPZ	23 33 35.2	S.H.		eSE	55	S.H.
	eSE	54	S.H.	18.	ePE	02 49 20	S.H.
17.	ePZ	03 59 17	S.H.		iSE	39.7	S.H.
	eSZ	35	S.H.	18.	ePE	03 19 36	S.H.
17.	ePZ	06 39 11	S.H.	Minor trace of local shock.			
	eSZ	31	S.H.	18.	ePE	03 20 46	S.H.
17.	ePZ	08 05 57	S.H.		iSEN	21 09	S.H.
	SEZ	06 21	S.H.	18.	ePE	03 44 41	S.H.
17.	iPZ	12 21 07	S.H.	Minor trace of local shock.			
	SEZ	25	S.H.	18.	ePZ	06 22 15	S.H.
17.	iPZ	15 38 35	S.H.	H: 06 10 26.3, h: 33 Km.			
	eSEZ	55	S.H.	Molucca passaga.			
17.	P'Z	18 13 54.5	S.H.	18.	PZ	07 37 02.5	S.H.
	SPZ	14 15	S.H.		SEZ	20	S.H.
	pP'Z	16 28	S.H.	18.	ePZ	09 44 58	S.H.
H: 17 55 45.4, h: 601 Km.					eSEZ	45 21	S.H.
Fiji Islands.				18.	ePZ	10 14 10	S.H.
17.	ePZ	18 21 56.5	S.H.		eSEZ	30	S.H.
Minor trace of local shock.				18.	PZ	11 35 33.0	S.H.
					iSENZ	56	S.H.

18.	ePZ	13 48 55	S.H.	19.	iPZ	09 57 15.4	S.H.
	eSNEZ	49 13	S.H.		iSEZ	39	S.H.
					Compression.		
18.	ePZ	14 23 51	S.H.	19.	ePZ	13 19 42	S.H.
	eSNEZ	24 07	S.H.		eSE	21 28	S.H.
18.	ePZ	15 25 16	S.H.	19.	ePZ	13 50 40	S.H.
	eSE	44	G.		Minor trace of	local shock.	
18.	ePZ	17 46 43	S.H.	19.	ePZ	14 15 51	S.H.
	eSE	47 00.2	S.H.		eSE	17 49	S.H.
18.	PZ	18 09 04.6	S.H.	19.	ePZ	14 25 08	S.H.
	eSE	23	S.H.		eSNEZ	25	S.H.
18.	iPZ	18 48 34.3	S.H.	19.	ePZ	15 20 27	S.H.
	eSNEZ	53	S.H.		SEZ	50	S.H.
18.	iPZ	19 51 07.3	S.H.	19.	ePZ	15 53 01	S.H.
	iSE	26	S.H.		eSEZ	24	S.H.
18.	ePZ	20 21 56	S.H.	19.	ePZ	16 11 20	S.H.
	eSE	22 14	S.H.		SEZ	44	S.H.
18.	ePZ	22 22 18	S.H.	19.	ePZ	16 14 16	S.H.
	eSE	36	S.H.		SEZ	40	S.H.
18.	ePZ	22 37 55	S.H.	19.	ePZ	17 07 15	S.H.
	eSE	38 13	S.H.		eSEZ	38	S.H.
18.	ePZ	22 49 16	S.H.	19.	ePZ	17 54 42	S.H.
	eSEZ	40	S.H.		eSEZ	55 05	S.H.
18.	ePZ	23 25 12	S.H.	19.	iPZ	20 32 04.5	S.H.
	Minor trace of	local shock.			SEZ	22.5	S.H.
19.	iPZ	00 23 43.3	S.H.		Compression.		
	iSNEZ	24 02	S.H.	19.	ePZ	20 43 58	S.H.
	Compressive.				SEZ	44 15	S.H.
19.	ePZ	01 07 33	S.H.	19.	ePZ	21 05 12	S.H.
	eSE	54	S.H.		eSEZ	28	S.H.
19.	ePZ	02 04 16	S.H.	19.	ePZ	22 35 09	S.H.
	eSE	32	S.H.		SE	26	S.H.
19.	ePE	04 31 53	S.H.	19.	ePZ	23 08 27	S.H.
	eSE	32 15	S.H.		eSZ	44	S.H.
19.	ePZ	07 30 15	S.H.	19.	ePZ	23 33 37	S.H.
	eSNEZ	31 41	S.H.		minor trace of	local shock.	
19.	ePZ	09 48 39	S.H.				
	Minor trace of	local shock.					

20.	ePZ	02 27 25	S.H.	20.	ePZ	19 45 42	S.H.
		Minor trace of local shock.				Local shock.	
20.	ePZ	03 21 46	S.H.	20.	ePZ	19 58 22	S.H.
		Minor trace of local shock.				Local shock.	
20.	ePE	04 21 55	S.H.	20.	ePZ	20 03 46	S.H.
		Minor trace of local shock.				Minor trace of local shock.	
20.	ePZ	04 39 18	S.H.	20.	ePZ	20 53 54	S.H.
		Minor trace of local shock.			eSEZ	54 17	S.H.
20.	ePZ	07 47 43	S.H.	20.	ePZ	21 12 54	S.H.
	eSEZ	48 03	S.H.			Local shock.	
20.	ePZ	08 06 12	S.H.	20.	ePZ	23 08 52	S.H.
	iSEZ	29.6	S.H.		eSE	09 08	S.H.
20.	ePZ	08 15 58	S.H.	20.	ePZ	23 44 27	S.H.
		Minor trace of local shock.			eSE	44	S.H.
20.	ePZ	09 07 38	S.H.	21.	ePZ	00 17 43	S.H.
	SE	52	S.H.			Minor trace of local shock.	
20.	ePZ	10 22 25	S.H.	21.	ePZ	01 34 20	S.H.
	eSE	48	S.H.		eSEZ	42	S.H.
20.	PZ	13 11 44	S.H.	21.	ePZ	01 53 43	S.H.
	SNEZ	13 28	S.H.		eSEZ	59	S.H.
20.	ePZ	14 34 15	S.H.	21.	ePZ	02 14 50	S.H.
	eSE	33.5	S.H.		eSEZ	15 11	S.H.
20.	iPZ	14 53 51.0	S.H.	21.	ePZ	03 13 09	S.H.
	eSEN	54 07	S.H.		eSE	30	S.H.
		Dilatation.		21.	ePZ	05 17 32	S.H.
20.	ePZ	15 38 26	S.H.		eSE	47.	S.H.
		Minor trace of local shock.		21.	ePZ	10 46 39	S.H.
20.	ePZ	16 14 40	S.H.			Minor trace of local shock.	
		Minor trace of local shock.		21.	ePZ	10 53 12	S.H.
20.	ePZ	16 46 33	S.H.			Minor trace of local shock.	
	eSE	48	S.H.	21.	ePZ	15 39 12	S.H.
20.	ePZ	16 51 55	S.H.			Minor trace of local shock.	
		Minor trace of local shock.		21.	iPZ	16 21 34	S.H.
20.	PZ	17 45 55	S.H.		eSNEZ	53	S.H.
	SE	46 16.5	S.H.	21.	ePZ	16 54 21	S.H.
20.	ePZ	19 18 43	S.H.			Minor trace of local shock.	
		Minor trace of local shock.					

21.	ePZ	17 24 28	S.H.	22.	PZ	11 02 21	S.H.
	Minor trace of local shock.				SEZ	39	S.H.
21.	ePZ	18 49 10	S.H.	22.	ePZ	11 14 57	S.H.
	Minor trace of local shock.				eSEZ	15 17	S.H.
21.	ePZ	19 01 15	S.H.	22.	iPZ	11 36 09.8	S.H.
	eSE	31	S.H.		iSNEZ	25.6	S.H.
21.	ePZ	19 23 52	S.H.	22.	PZ	12 00 56	S.H.
	Minor trace.				SE	01 13	S.H.
21.	ePZ	20 10 01	S.H.	22.	iPZ	12 12 59.3	S.H.
	Minor trace of local shock.				iSE	13 17	S.H.
21.	PZ	20 45 59	S.H.	22.	ePZ	14 08 02	S.H.
	SNEZ	46 17.5	S.H.		SNE	17	S.H.
21.	iPZ	21 57 50	S.H.	22.	PZ	15 51 01	S.H.
	iSEnz	58 06	S.H.		SE	17	S.H.
21.	ePZ	23 13 56	S.H.	22.	iPZ	18 49 59.5	S.H.
	Minor trace of local shock.				iSNE	50 19.5	S.H.
22.	ePZ	00 04 57	S.H.		Dilatation.		
	eSE	05 17	S.H.	22.	ePZ	20 16 23	S.H.
22.	ePZ	01 02 16	S.H.		Minor trace of local shock.		
	Minor trace of local shock.			22.	ePZ	21 46 11	S.H.
22.	ePZ	02 18 01	S.H.		Minor trace of local shock.		
	eSE	20	S.H.	22.	ePZ	22 26 53	S.H.
22.	ePZ	04 51 03	S.H.		Minor trace of local shock.		
	eSE	27	S.H.	22.	ePZ	22 56 53	S.H.
22.	ePZ	06 59 04	S.H.		Minor trace of local shock.		
	eSZ	07 04 56	S.H.	22.	ePZ	23 09 28	S.H.
	i?N	07 05 09.5	G.		Minor trace of local shock.		
	GN	08 03	G.	23.	ePZ	01 12 11	S.H.
	Lg ₂ N	14.0	G.		Minor trace of local shock.		
	H: 06 51 32.3, h: 33 Km.			23.	PZ	02 20 22	S.H.
	Northern Burma.				Minor trace of local shock.		
22.	ePZ	08 09 49	S.H.	23.	ePZ	06 20 03	S.H.
	H: 08 06 28.2, h: 33 Km.				SE	26	S.H.
	Hindu Kush.			23.	ePZ	09 16 30	S.H.
22.	PZ	09 07 54	S.H.		Minor shock.		
	iSE	08 16	S.H.	23.	ePZ	10 29 02	S.H.
22.	ePZ	09 56 44	S.H.		SE	16.5	S.H.
	SNEZ	57 40	S.H.,G.				

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|-----|-----------------------------|------------|------|--|-----|-------------------------------------|------------|------|--|
| 23. | iPZ | 13 11 45.5 | S.H. | | 24. | ePZ | 14 49 29 | S.H. | |
| | iSEZ | 12 02.9 | S.H. | | H: | 14 38 21.7, | h: 33 Km. | | |
| | | | | | | Near east coast of Hokkaido, Japan. | | | |
| 23. | ePZ | 15 06 23 | S.H. | | 24. | ePZ | 14 56 05 | S.H. | |
| | Minor trace of local shock. | | | | | Minor trace of local shock. | | | |
| 23. | ePZ | 15 16 51 | S.H. | | 24. | ePZ | 15 50 20 | S.H. | |
| | eSNEZ | 17 14 | S.H. | | | Minor trace of local shock. | | | |
| 23. | ePZ | 16 54 01 | S.H. | | 24. | PZ | 17 10 03 | S.H. | |
| | eSEZ | 19 | S.H. | | | iSEZ | 25 | S.H. | |
| 23. | iPZ | 16 55 30.1 | S.H. | | 24. | iPZ | 17 52 44 | S.H. | |
| | SE | 52 | S.H. | | | SE | 53 03 | S.H. | |
| 23 | ePZ | 17 58 15 | S.H. | | 24. | ePZ | 18 21 17 | S.H. | |
| | Minor trace of local shock. | | | | | eSZ | 34 | S.H. | |
| 23. | iPZ | 18 28 01.7 | S.H. | | 24. | ePZ | 20 57 26 | S.H. | |
| | SEZ | 21 | S.H. | | | Minor trace of local shock. | | | |
| 23. | ePZ | 20 31 00 | S.H. | | 24. | ePZ | 21 12 30 | S.H. | |
| | iSE | 05.6 | S.H. | | | eSZ | 50 | S.H. | |
| 23. | ePZ | 20 35 29 | S.H. | | 24. | PZ | 23 20 46.5 | S.H. | |
| | iSE | 46 | S.H. | | | eSE | 22 03 | S.H. | |
| 23. | ePZ | 23 04 05 | S.H. | | 24. | ePZ | 23 30 41 | S.H. | |
| | iSE | 22 | S.H. | | | Minor trace. | | | |
| 23. | ePZ | 23 27 55 | S.H. | | 25. | PZ | 00 18 11 | S.H. | |
| | iSE | 28 17 | S.H. | | | SEZ | 30 | S.H. | |
| 24. | ePZ | 03 24 32 | S.H. | | 25. | ePZ | 00 33 03 | S.H. | |
| | eSZ | 50 | S.H. | | | eSE | 34 21 | S.H. | |
| 24. | ePZ | 03 31 56 | S.H. | | 25. | ePZ | 03 07 03 | S.H. | |
| H: | 03 26 38.8, | h: 33 Km. | | | | Minor trace of local shock. | | | |
| | Kazakh S.S.R. | | | | 25. | iPZ | 03 41 25 | S.H. | |
| 24. | ePZ | 06 10 37 | S.H. | | | eSEZ | 42 | S.H. | |
| | Minor trace of local shock. | | | | 25. | ePZ | 06 15 34 | S.H. | |
| 24. | ePZ | 06 30 10 | S.H. | | | Minor trace of local shock. | | | |
| | Minor shock. | | | | 25. | ePZ | 06 47 05 | S.H. | |
| 24. | ePZ | 09 45 20 | S.H. | | | SE | 23 | S.H. | |
| | Minor shock. | | | | 25. | ePZ | 08 21 37 | S.H. | |
| 24. | iPZ | 10 30 20 | S.H. | | | eSZ | 58 | S.H. | |
| | SEZ | 40 | S.H. | | 25. | ePZ | 13 12 35 | S.H. | |
| 24. | ePZ | 12 10 26 | S.H. | | | eSE | 55 | S.H. | |
| | SE | 50 | S.H. | | | | | | |

25.	ePZ	13 23 40	S.H.	26.	ePZ	16 57 48	S.H.
	eSE	24 03	S.H.		Minor trace of local shock.		
25.	iPZ	13 37 44	S.H.	26.	ePZ	18 37 48	S.H.
	eSE	38 06	S.H.		Minor trace.		
25.	ePZ	18 21 14	S.H.	26.	ePZ	19 14 15	S.H.
	eSE	37.	S.H.		Minor trace of local shock.		
25.	iPZ	20 36 36.8	S.H.	26.	ePZ	19 23 14	S.H.
	SE	56	S.H.		eSZ	34	S.H.
	Compression.			26.	ePZ	20 28 08	S.H.
25.	iPZ	20 42 22.0	S.H.		Minor trace.		
	iSEZ	41	S.H.	26.	ePZ	20 55 02	S.H.
	Compression.				eSZ	27	S.H.
25.	ePZ	22 23 21	S.H.	27.	ePZ	01 03 53	S.H.
	eSE	41	S.H.		eSZ	04 11	S.H.
25.	ePZ	22 31 23	S.H.	27.	ePZ	05 58 32	S.H.
	eSE	47	S.H.		SNEZ	55	S.H.
25.	ePZ	22 55 39	S.H.	27.	iPZ	06 40 59	S.H.
	Minor trace of local shock.				iSNEZ	42 19.5	S.H.
25.	ePZ	23 45 47	S.H.	27.	ePZ	07 52 00	S.H.
	Minor trace of local shock.				Minor trace of local shock.		
26.	ePZ	00 13 01	S.H.	27.	ePZ	09 29 16	S.H.
	Minor trace of local shock.				Minor trace.		
26.	ePZ	03 25 26	S.H.	27.	ePZ	10 10 36	S.H.
	Minor trace of local shock.				eSZ	59	S.H.
26.	PZ	04 13 17	S.H.	27.	ePZ	10 32 29	S.H.
	SE	37	S.H.		eSE	50	S.H.
26.	ePZ	04 23 50	S.H.	27.	iPZ	12 41 23	S.H.
	Minor trace of local shock.				iSNEZ	40	S.H.
26.	PZ	05 40 59	S.H.	27.	ePZ	13 06 38	S.H.
	eSE	41 15	S.H.		H: 12 56 18.6, h: 144 Km.		
26.	ePZ	05 56 10	S.H.		Southern Sumatra.		
	eSE	27	S.H.	27.	ePZ	13 29 43	S.H.
26.	ePZ	10 04 52	S.H.		eSNEZ	30 00	S.H.
	iSNE	05 10	S.H.	27.	ePZ	20 33 13	S.H.
26.	iPZ	12 48 50.2	S.H.		eSZ	34	S.H.
	iSE	49 07	S.H.	27.	ePZ	22 50 24	S.H.
26.	iPZ	16 32 25.2	S.H.		SE	42	S.H.
	iSNEZ	48	S.H.				

27.	ePZ	23 29 58	S.H.	29.	iPZ	03 25 49.0	S.H.
	SNEZ	30 18	S.H.		SE	26 10	S.H.
28.	ePZ	02 04 23	S.H.	29.	ePZ	05 43 13	S.H.
	eSE	43	S.H.		eSE	32	S.H.
28.	ePZ	03 21 48	S.H.	29.	ePZ	06 56 10	S.H.
	SE	22 05	S.H.		H: 06 53 56.1, h: 50 Km.		
28.	ePZ	04 02 21	S.H.		Southern Iran.		
	Minor trace of local shock.			29.	iPZ	08 56 29	S.H.
					SE	47	S.H.
28.	ePZ	06 41 47	S.H.	29.	ePZ	11 37 05	S.H.
	eSNEZ	42 06	S.H.		eSE	25	S.H.
28.	ePZ	08 30 11	S.H.	29.	ePZ	12 14 48	S.H.
	eSEZ	27	S.H.		eSZ	15 14	S.H.
28.	ePZ	10 08 20	S.H.	29.	ePZ	14 31 26	S.H.
	eSZ	40	S.H.		eSZ	50	S.H.
28.	ePZ	10 18 15	S.H.	29.	eP'Z	15 35 43	S.H.
	Minor trace of local shock.				ePPZ	37 31	S.H.
28.	ePZ	13 12 14	S.H.		iPPPZ	39 33	S.H.
	SE	36	S.H.		H: 15 17 47.7, h: 575 Km.		
28.	ePZ	14 30 23	S.H.		Santiago Del Estero province		
	SE	45	S.H.		Argentina.		
					Mag. $6\frac{1}{2}$ (Pas), $6\frac{1}{4}$ (Pal).		
28.	ePZ	15 11 57	S.H.	29.	ePZ	16 43 48	S.H.
	eSE	12 15	S.H.		Minor trace of local shock.		
28.	ePZ	15 20 49	S.H.	29.	iPZ	19 23 52.5	S.H.
	eSE	21 12	S.H.		iSNE	24 18	S.H.
28.	PZ	17 40 44	S.H.		Coproression.		
	SEZ	41 01	S.H.	30.	ePZ	05 11 17	S.H.
28.	ePZ	18 02 34	S.H.		Minor trace of local shock.		
	Minor trace of local shock.			30.	ePZ	05 21 12	S.H.
28.	ePZ	22 16 01	S.H.		eSEZ	37	S.H.
	Minor trace of local shock.			30.	ePZ	06 39 24	S.H.
28.	ePZ	22 47 27	S.H.		iSNEZ	47.0	S.H.
	SEZ	44	S.H.	30.	iPZ	07 01 24.5	S.H.
28.	ePZ	23 02 00	S.H.		iSE	46	S.H.
	SE	21	S.H.		Compression.		
29.	ePZ	01 28 12	S.H.	30.	ePZ	07 04 10	S.H.
	eSE	34	S.H.		iSE	32	S.H.
				30.	PZ	07 40 43	S.H.
					iSE	41 05	S.H.



30. ePZ 11 01 17 S.H.
eSZ 32 S.H.

30. iPZ 13 01 16.5 S.H.
iSNE 33 S.H.
Compression.

30. ePZ 15 25 23 S.H.
iSEZ 40 S.H.

30. iPZ 15 52 19.5 S.H.
iSEZ 41 S.H.

30. ePZ 17 39 04 S.H.
eSZ 26 S.H.

30. ePZ 20 12 21 S.H.

- 26. iPZ 23 57 59.6 S.H.
- 27. eSNE 00 07 42 S.H.
- H: 23 46 14.7, h: 33 Km.
Komandorskie Islands.
- 27. ePZ 03 08 40 S.H.
- eSNE 09 03 S.H.
- 27. ePZ 09 14 05 S.H.
- Local.
- 27. ePZ 11 07 11 S.H.
- eSNE 42 S.H.
- 27. ePZ 18 29 43 S.H.
- Minor trace.
- 28. ePE 03 00 37 S.H.
- Minor trace.
- 28. ePE 15 32 46 S.H.
- eSNE 33 02 S.H.
- 28. ePE 21 51 24 S.H.
- Minor trace.
- 29. ePE 00 12 41 S.H.
- Minor trace.
- 29. ePE 00 30 01 S.H.
- Local.
- 29. ePE 02 35 01 S.H.
- Minor trace.
- 29. ePE 04 24 03 S.H.
- H: 04 12 09.0, h: 33 Km.
Halmabera region
- 29. ePE 04 46 42 S.H.
- Local.
- 29. ePZ 08 08 24 S.H.,G.
- eSNE 11 35 G.
- H: 08 04 25.7, h: 33 Km.
Afghanistan.
- 29. eP'Z 11 00 05 S.H.
- epPZ 01 51 S.H.,G.
- H: 10 41 04.1, h: 46 Km.
Northern Chile.
Mag. $6\frac{3}{4}$ (Pas), $6\frac{1}{2}$ (Brk),
6 (Pal).
- 29. ePZ 15 07 12 S.H.
- ePPZ 10 11 G.
- e?Z 46 G.
- H: 14 47 41.4, h: 43 Km.
Kermadec Islands region.
Mag. 6 - $6\frac{1}{4}$ (Pas).
- 29. ePZ 20 23 46 S.H.
- eSNEZ 24 04 S.H.
- 30. ePZ 01 42 52 S.H.
- Local.
- 30. ePZ 02 09 21 S.H.
- Local.
- 30. ePZ 06 47 29 S.H.
- eSEZ 49 25 G.
- 30. iPZ 15 05 54.3 S.H.
- SEN 59.3 S.H.
- 30. ePZ 16 21 13 S.H.
- Minor trace.
- 31. ePZ 08 11 50 S.H.
- Minor trace.
- 31. ePZ 11 10 43 S.H.
- H: 11 00 59.5, h: 33 Km.
Near Coast of Sumatra.
- 31. ePZ 14 31 09 S.H.
- eSNE 25 S.H.

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Lat. $35^{\circ}44'16''$ N. a = + 0.50773
 Long. $51^{\circ}23'08''$ E. b = + 0.63570
 Height ... 1360 M. c = + 0.58146

DECEMBER 1962

<p>1. ePZ 11 56 36 S.H. Local.</p> <p>1. ePZ 11 59 39 S.H. Local.</p> <p>1. ePZ 16 17 25 S.H. SNEZ 45 S.H.</p> <p>2. ePZ 05 29 04 S.H. SNE 23 S.H.</p> <p>2. ePZ 11 54 55 S.H. eSNE 55 10 S.H.</p> <p>2. ePE 19 34 42 S.H. eSE 35 05 S.H.</p> <p>2. iPZ 22 12 32.8 G. SNE 48 S.H.,G. Dilatation.</p> <p>2. iPZ 22 21 46.5 G. H: 22 21 29.5, h: 36 Km. Iran. Felt Tehran. Dilatation.</p> <p>2. iPZ 23 36 42.6 S.H.,G. eSE 58 S.H. H: 23 36 23.7, h: 33 Km. Iran. Felt Tehran. Dilatation.</p> <p>3. ePZ 02 06 17 S.H. eSE 32 S.H.</p> <p>4. ePZ 00 41 55 S.H. eSNE 42 13 S.H.</p> <p>4. ePZ 01 02 53 S.H. eSNEZ 03 17 S.H.</p>	<p>4. ePZ 01 15 14 S.H. Local.</p> <p>4. ePZ 02 16 53 S.H. eSNE 17 17 S.H.</p> <p>4. ePZ 03 54 46 S.H. Local.</p> <p>4. ePZ 07 24 00 S.H. Local.</p> <p>4. ePZ 13 31 36 S.H. Local.</p> <p>4. ePZ 22 54 04 S.H. eSE 27 S.H.</p> <p>5. ePZ 04 50 04 S.H. eSE 24 S.H.</p> <p>5. ePZ 06 16 05 S.H. eSE 28 S.H.</p> <p>7. ePZ 07 22 58 S.H. Minor trace.</p> <p>7. iPZ 14 14 20.8 S.H.,G. eSNE 23 06 G. H: 14 03 37.0, h: 411 Km. Bonin Islands region. Mag. 63/4 - 7 (Brk).</p> <p>8. ePNE 01 43 43 S.H. SNE 44 01.1 S.H.</p> <p>8. ePE 02 56 58 S.H. Local.</p> <p>8. ePE 03 14 28 S.H. Local.</p>
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|--|---|
| 21. ePZ 09 02 43 S.H.
H: 08 50 08.2, h: 33 Km.
Fox Islands, Aleutian Is. | 23. ePZ 00 49 19 S.H.
H: 00 43 56.3, h: 33 Km.
Albania - Yugoslavia
border region. |
| 21. PZ 09 13 19.3 S.H.
H: 09 00 41.4, h: 33 Km.
Fox Islands, Aleutian Is. | 23. ePZ 06 31 15 S.H.
H: 06 28 07.0, h: 196 Km.
Hindu Kush. |
| 21. ePZ 09 22 41 S.H.
H: 09 10 01.6, h: 33 Km.
Fox Islands, Aleutian Is. | 23. PZ 21 41 40 S.H.
SNE 55.5 S.H. |
| 21. ePZ 09 44 12 S.H.
H: 09 33 15.5, h: 27 Km.
Near South Coast of Hokkaido,
Japan. | 24. ePZ 12 47 52 S.H.
e?N 49 02 G.
Near shock. |
| 21. ePZ 17 52 22 S.H.
eSNE 56 22 G.
H: 17 47 30;8, h: 27 Km.
Gulf of Aden. | 24. ePZ 14 15 34 S.H.
Near shock. |
| 21. ePZ 20 53 59 S.H.
Local. | 24. ePZ 16 06 23 S.H.
Local. |
| 22. PZ 00 03 35 S.H.
SNE 56.6 S.H. | 24. ePZ 16 24 43 S.H.
Local. |
| 22. ePZ 01 11 20 S.H.,G.
ePPZ 13 14 G.
H: 00 52 23.4, h: 33 Km.
Loyalty Islands, region.
Mag. $6\frac{1}{2}$ - $6\frac{3}{4}$ (Pas). | 24. ePZ 16 42 04 S.H.
Local. |
| 22. ePZ 02 11 13 S.H.
eSNE 20 33 S.H.
H: 01 59 50.3, h: 69 Km.
Near South Coast of Java. | 24. ePZ 18 57 24 S.H.
Local. |
| 22. ePZ 06 45 04 S.H.
Minor trace. | 24. ePZ 19 08 28 S.H.
Local. |
| 22. iPZ 07 17 38.5 S.H.
SNE 58 S.H. | 24. ePZ 21 14 35 S.H.
Minor trace. |
| 22. ePZ 12 41 44 S.H.
Local. | 24. ePZ 23 58 18 S.H.
Local. |
| 22. PZ 15 33 05.6 S.H.
eSN 43 33 G.
H: 15 20 31.0, h: 47 Km.
Fox Islands, Aleutian Is.
Mag. $6\frac{1}{4}$ (Pas). | 25. ePZ 00 08 11 S.H.
eSNE 54 S.H. |
| | 25. ePZ 09 15 57 S.H.
eSNE 16 15 S.H. |
| | 26. iPZ 22 37 00.1 S.H.,G.
eSNE 46 40 S.H.
H: 22 25 15.5, h: 33 Km.
Komandorskie Islands.
Mag. $6\frac{1}{2}$ (pas), (Pal). |
| | 26. ePZ 23 29 16 S.H.,G.
H: 23 25 16.7, h: 34 Km.
Arabian Sea. |

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Long. $51^{\circ}23'08''$ E. b = + 0.63570
Height ... 1360 M. c = + 0.58146

NOVEMBER 1962

- | | |
|--|---|
| 1. ePZ 01 19 42 S.H.
Minor trace. | 2. ePZ 07 45 40 S.H.
SEZ 46 00 S.H. |
| 1. iPZ 04 53 28.7 S.H.
eSNE 49 S.H. | 2. ePZ 09 11 45 S.H.
eSE 12 03 S.H. |
| 1. ePZ 07 41 15 S.H.
eSNE 32 S.H. | 2. ePZ 13 26 48 S.H.
H: 13 23 01.0, h: 33 Km.
Hindu Kush. |
| 1. ePZ 13 50 09 S.H.
eSNE 53 14 G.
?E 55 29 G.
H: 13 46 43.4, h: 132 Km.
Hindu Kush. | 2. iPZ 14 03 16 S.H.
SNE 32 S.H. |
| 1. ePZ 15 30 04 S.H.
eSN 33 31 G.
e?Z 34 43 G.
H: 15 26 56.1, h: 124 Km.
Hindu Kush region. | 2. PZ 14 30 03 S.H.
eSNE 20 S.H. |
| 1. ePZ 15 45 39 S.H.
eSNE 55 53 G.
H: 15 33 22.6, h: 56 Km.
Off Coast of western
New Guinea. | 2. ePZ 14 58 33 S.H.
eSNE 15 08 18 G.
H: 14 46 39.2, h: 33 Km.
South of Sumbawa. |
| 1. ePZ 18 04 38 S.H.,G.
?Z 05 34 S.H.,G.
ePPZ 07 35 G.
eSNE 14 59 G.
H: 17 52 20.2, h: 36 Km.
North ofwestern New Guinea. | 2. ePZ 15 11 29 S.H.
H: 15 00 25.4, h: 75 Km.
Near east Coast of Honshu,
Japan. |
| 1. ePZ 19 15 04 S.H.
Local. | 2. ePZ 15 24 32 S.H.
H: 15 12 37.2, h: 33 Km.
South of Sumbawa. |
| 1. ePZ 20 02 01 S.H.
Minor trace. | 2. ePZ 16 40 45 S.H.
Local. |
| 2. ePZ 06 56 36 S.H.
Minor trace. | 2. ePZ 16 43 59 S.H.
Local. |
| | 3. ePZ 00 38 55 S.H.
e?EZ 39 31 S.H. |
| | 3. ePZ 02 27 26 S.H.
Local. |

3.	ePZ	02 51 03	S.H.	5.	ePZ	03 28 30	S.H.
	Minor trace.				eSE	53	S.H.
3.	ePZ	03 24 43	S.H.	5.	ePZ	04 04 41	S.H.
	H: 03 12 37.8, h: 33 Km.				eSNE	06 19	G.
	South of Sumbawa.			5.	ePZ	14 17 46	S.H.
3.	ePZ	03 39 59	S.H.		eSE	18 10	S.H.
	?NE	42 31	G.	5.	ePZ	14 30 54	S.H.
3.	ePZ	12 26 59	S.H.		Minor trace.		
	Local.			5.	ePZ	18 19 46	S.H.
3.	iPZ	12 30 50.0	S.H.		eSE	20 08	S.H.
	SNEZ	31 08	S.H.	5.	iPZ	19 22 05.7	S.H.
	Compression.				SNEZ	28	S.H.
3.	ePZ	12 37 56	S.H.	6.	ePZ	00 11 51	S.H.
	SNEZ	38 16	S.H.		eSE	14 21	S.H.
3.	PZ	14 01 36	S.H.		H: 00 09 47.2, h: 33 Km.		
	SNE	53	S.H.		Southern Iran.		
3.	PZ	14 40 28	S.H.	6.	ePZ	01 46 11	S.H.
	SNE	48	S.H.		Minor trace.		
3.	ePZ	15 17 00	S.H.	6.	PZ	04 46 58	S.H.
	SN	18 46	G.		SNE	47 18	S.H.
4.	ePZ	16 29 51	S.H.	6.	ePZ	07 11 13	S.H.
	SNE	30 12	S.H.		e?Z	14 13	S.H.
4.	ePZ	18 54 17	S.H.	6.	ePZ	14 13 40	S.H.
	Near shock.				Local.		
4.	ePZ	20 27 04	S.H.	6.	ePZ	14 20 26	S.H.
4.	ePZ	21 07 42	S.H.		Local.		
	Minor trace.			6.	ePZ	15 02 29	S.H.
4.	ePZ	22 40 13	S.H.		eSNE	48	S.H.
	Minor trace.			6.	ePZ	16 26 15	S.H.
4.	ePZ	23 12 52	S.H.,G.		SE	34	S.H.
	PZ	13 23	G.	6.	ePZ	20 42 30	S.H.
	ePPZ	15 49	G.		e?Z	45 28	S.H.
	?NE	16 35	G.	6.	ePZ	20 58 55	S.H.
	PKSNE	18 01	G.		Minor trace.		
	H: 22 53 34.2, h: 33 Km.			6.	ePZ	21 52 37	S.H.
	Off Coast of Southern Chile.				eSE	55	S.H.
	Mag. 5.3/4 - 6 (Pas), 5.1/2 (Pal).			6.	ePZ	23 03 33	S.H.
4.	ePZ	23 36 11	S.H.		eSE	52	S.H.
	eSE	34	S.H.				

7.	ePZ	00 19 21	S.H.	10.	ePZ	01 07 15	S.H.
	eSE	36	S.H.		SN	08 35	S.H.
7.	ePZ	04 14 49	S.H.	10.	ePZ	01 34 09	S.H.
	Minor trace.				eSN	36 29	G.
7.	ePZ	12 03 54	S.H.	H:	01 32 03.7, h: 33 Km.		
	eSNE	04 48	G.		Near South Coast of Iran		
					Felt.		
7.	ePZ	13 08 02	S.H.	10.	iPZ	01 44 28.7	S.H.
	Minor trace.				iSNE	53 30	S.H.,G.
7.	ePZ	16 14 45	S.H.	H:	01 33 19.0, h: 60 Km.		
	SNE	24 12	G.		Kurile Islands.		
H:	16 03 14.1, h: 156 Km.				Mag. 5 $\frac{1}{2}$ (Pal).		
	Flores Sea.			10.	ePZ	06 23 38	S.H.
8.	ePZ	06 57 21	S.H.		SNE	58	S.H.
	Minor trace.			10.	ePZ	12 28 01	S.H.
8.	ePZ	10 09 13	S.H.		eSZ	16	S.H.
	eSE	33	S.H.	10.	iPZ	17 28 38.0	S.H.
8.	PZ	10 30 50	S.H.		SNE	55	S.H.
	SE	31 07	S.H.	10.	iPZ	21 42 58.0	S.H.
8.	ePZ	12 45 56	S.H.		SNE	43 16	S.H.
	eSE	46 15	S.H.	11.	ePZ	00 30 43	S.H.
8.	PZ	16 15 37	S.H.		eSE	31 04	S.H.
	eSNE	54	S.H.	11.	PZ	05 22 49.5	S.H.
8.	PZ	16 26 12	S.H.		eSE	23 05	S.H.
	SNE	26	S.H.	11.	ePZ	06 56 41	S.H.
9.	PNE	01 12 00	G.		eSE	57 00	S.H.
	ePcPNE	19 24	G.	11.	PZ	07 49 33	S.H.
H:	01 11 02.1, h: 33 Km.			H:	07 39 15.4, h: 33 Km.		
	Iraq - Iran border region.				Mascarene Islands region.		
9.	ePZ	09 32 37	S.H.	11.	ePZ	11 40 08	S.H.
H:	09 21 30.8, h: 33 Km.				eSN	46 51	G.
	Near east coast of Honshu,				eLN	50 20	G.
	Japan.			H:	11 31 44.5, h: 33 Km.		
9.	ePZ	11 12 10	S.H.		Lake Baikal region. U.S.S.R.		
	eSE	32	S.H.		Mag. 6 $\frac{1}{4}$ (Pas).		
9.	PZ	17 23 03	S.H.	11.	PZ	15 20 15	S.H.
	SE	20	S.H.		SNE	24 06	S.H.
9.	ePZ	21 33 21	S.H.	H:	15 15 33.6, h: 34 Km.		
	SNE	40	S.H.		Red Sea.		

11.	eP'Z	16 28 38	S.H.	13.	ePZ	08 05 17	S.H.
	H:	16 09 57.6, h: 77 Km.			Minor trace.		
		Santa Cruz Islands.					
		Mag. 6 - 6 $\frac{1}{4}$ (Pas).					
11.	ePZ	16 39 49	S.H.	14.	PZ	07 59 14	S.H.
		Minor trace.			eSNE	08 08 18	G.
					H:	07 48 05.5, h: 61 Km.	
						Central Honshu, Japan.	
11.	ePZ	17 26 12	S.H.	14.	ePZ	21 15 49	S.H.
	eSE	27 34	S.H.		eSNE	16 49	G.
11.	ePZ	22 33 12	S.H.	14.	ePZ	22 11 19	S.H.
	eSE	35	S.H.		H:	21 59 16.1, h: 92 Km.	
						Northren Celebes.	
11.	ePPZ	22 36 40	S.H.	14.	ePZ	23 35 45	S.H.
	i?E	37 19.0	G.		eSE	36 03	S.H.
	eSKSPNE	47 00	G.	15.	ePZ	02 25 33	S.H.
	H:	22 14 18.7, h: 33 Km.			Minor trace.		
		Off coast of Southern Chile.					
		Mag. 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$ (Pas).		15.	PZ	06 44 35	S.H.
12.	ePZ	01 57 30	S.H.		eSNE	55	S.H.
		Minor trace.		15.	P'Z	23 44 17	S.H.
12.	ePZ	02 23 26	S.H.		?Z	45 32	S.H.
	eSNE	44	S.H.		PKSEZ	47 31	G.
12.	ePZ	02 28 36	S.H.		H:	23 25 15.7, h: 45 Km.	
	eSNE	29 37	S.H., G.			Near coast of north Peru.	
12.	ePZ	04 40 39	S.H.			Mag. 6 (Pas).	
	eSE	58	S.H.	16.	ePZ	03 46 24	S.H.
12.	ePZ	08 32 02	S.H.		Minor trace.		
		Local.		16.	eP'Z	07 38 33	G.
12.	ePE	16 01 56	S.H.		eP'Z	40 03	G.
	eSE	02 12	S.H.		e?Z	41 32	G.
12.	ePE	19 08 27	S.H.		e?Z	43 12	G.
	eSE	49	S.H.		e?Z	45 20	G.
12.	ePE	22 02 07	S.H.		ePZ	50 39	G.
	eSE	26	S.H.		e?Z	53 28	G.
13.	ePE	03 07 44	S.H.		H:	07 18 37.3, h: 43 Km.	
	eSE	08 49	G.			Eastern Islands region.	
13.	ePE	04 58 03	S.H.			Mag. 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$ (Pas),	
	eSE	20	S.H.			6 (Pal).	
13.	ePZ	07 53 24	S.H.	16.	ePZ	18 00 02	S.H.
		Local.			eSE	21	S.H.
				16.	iPZ	21 12 01.5	S.H.
					eSEZ	30	S.H.

16.	iPZ	21 18 06.5	S.H.	17.	iPZ	22 10 45.8	S.H.
	ePPZ	19 50	G.		SE	54	S.H.
	SN	24 52	G.		Dilatation.		
H:	21 10 01.8, h: 33 Km.			17.	PZ	22 15 10	S.H.
	Andaman Islands.				SNE	19	S.H.
	Mag. 6 - $6\frac{1}{4}$ (Pal).						
16.	ePZ	23 51 12	S.H.	18.	ePZ	01 18 04	S.H.
	Near shock.				eSE	12	S.H.
17.	ePZ	00 42 07	S.H.	18.	ePZ	01 21 30	S.H.
	eSE	24	S.H.		Minor trace.		
17.	ePZ	10 46 40	S.H.	18.	ePZ	02 03 21	S.H.
	SE	58	S.H.		SE	41	S.H.
17.	ePZ	19 21 10	S.H.	18.	ePZ	06 54 58	S.H.
	eSE	18	S.H.	H:	06 43 08.5, h: 56 Km.		
17.	ePZ	19 42 46	S.H.		Molucca Sea.		
	SE	54	S.H.	18.	ePZ	08 31 56	S.H.
17.	ePZ	20 32 10	S.H.		Minor trace.		
	Minor trace.			18.	ePZ	12 20 04	S.H.
17.	ePZ	20 33 30	S.H.		Minor trace.		
	Minor trace.			18.	PZ	14 54 15.5	S.H.
17.	ePZ	21 04 02	S.H.		SNE	36	S.H.
	Minor trace.			18.	iPZ	22 11 36.2	S.H.
17.	ePZ	21 05 06	S.H.		SNE	59.5	S.H.
	Minor trace.			19.	ePZ	00 36 56	S.H.
17.	ePZ	21 26 52	S.H.		Minor trace.		
	eSE	59	S.H.	19.	ePZ	00 51 47	S.H.
17.	iPZ	21 37 45.5	S.H.		eSE	52 46	S.H.
	SE	54	S.H.	19.	iPZ	04 25 07.4	S.H.
	Dilatation.				SE	26	S.H.
17.	iPZ	21 39 22.0	S.H.		Compression.		
	SN	26	G.	19.	iPZ	04 47 06.4	S.H.
	Dilatation.				SE	25	S.H.
17.	ePZ	21 44 12	S.H.		Compression.		
	SE	20	S.H.	19.	PZ	11 47 18	S.H.
17.	ePZ	21 53 44	S.H.		SNE	34	S.H.
	eSE	51	S.H.	19.	ePZ	14 09 35	S.H.
17.	ePZ	22 08 56	S.H.		Minor trace.		
	SNE	09 04	S.H.	19.	ePZ	14 24 48	S.H.
					Minor trace.		

19.	ePZ	17 54 15	S.H.	21.	iPZ	21 38 41.8	S.H.
	Minor trace.				SNE	53	S.H.
					Dilatation.		
20.	PZ	04 44 32.2	S.H.	22.	ePZ	03 27 42	S.H.
	SEZ	46	S.H.		eSNE	28 05	S.H.
20.	ePZ	04 48 57	S.H.	22.	iPZ	15 47 06.0	S.H.
	eSE	49 19	S.H.		SNE	23	S.H.
20.	ePZ	07 43 51	S.H.	22	ePZ	22 52 01	S.H.
H:	07 32 42.9, h:	33 Km.			SE	53 24	G.
	Kamchatka.						
20.	ePZ	11 57 09	S.H.	22.	ePZ	23 22 14	S.H.
	eSNE	58 38	G.		eSNE	37	S.H.
20.	ePZ	15 52 37	S.H.	23.	ePZ	01 46 56	S.H.
	eSEN	53 54	G.		eSE	47 15	S.H.
20.	ePZ	18 22 07	S.H.	23	ePZ	13 47 40	S.H.
	eSNE	29	S.H.		eSZ	48 05	S.H.
20.	ePZ	20 48 26	S.H.	23.	ePZ	22 12 51	S.H.
	eSN	50 26	G.		Minor trace.		
H:	20 45 46.9, h:	34 Km.		24.	PZ	07 42 39	S.H.
	Southern Iran.				SNE	57	S.H.
20.	ePZ	22 15 48	S.H.	24.	iPZ	07 55 48.5	S.H.
	Minor trace.				SNE	56 12	S.H.
20.	ePZ	23 29 34	S.H.	24.	ePZ	16 03 39	S.H.
	SNE	57	S.H.		Minor trace.		
20.	ePZ	23 51 48	S.H.	24.	ePZ	16 32 27	S.H.
	SE	57	S.H.	H:	16 19 44.9, h:	33 Km.	
21.	ePZ	00 42 52	S.H.		Mid - Atlantic Ocean.		
	eSE	43 10	S.H.	25.	ePZ	03 53 33	S.H.
21.	iPZ	02 53 48.6	S.H.		eSE	51	S.H.
	SNE	54 08	S.H.	26.	ePZ	01 44 37	S.H.
	Compression.				eSNE	47 39	G.
21.	ePZ	09 17 36	S.H.	H:	01 41 04.9, h:	110 Km.	
	Minor trace.				Hindu Kush.		
21.	ePZ	14 08 27	S.H.	26.	ePZ	05 02 24	S.H.
	Minor trace.				Minor trace.		
21.	ePZ	14 15 01	S.H.				
	SNE	21	S.H.				
21.	ePZ	18 06 49	S.H.				
	Minor trace.						

26. PZ 05 34 16 S.H.
 iSNEZ 38 30 G.
 ?NEZ 39 05 G.
 ?N 40 07 G.
 i?N 45 G.
 H: 05 29 30.2, h: 14 Km.
 Sinkiang Province, China.

26. ePZ 08 55 02 S.H.
 Minor trace.

26. eP'Z 16 18 11 S.H.
 H: 15 58 46.2, h: 19 Km.
 Tonga Islands.

26. iPZ 16 40 07.0 S.H.
 SE 25 S.H.

26. ePZ 23 09 10 S.H.

27. ePZ 01 44 05 S.H.
 eSE 24 S.H.

27. ePZ 07 02 57 S.H.
 ePPZ 05 10 S.H.
 eSNE 11 26 G.
 H: 06 52 57.8, h: 148 Km.
 Ryuku Islands.

27. ePZ 08 55 10 S.H.
 SNE 33 S.H.

27. ePZ 15 12 10 S.H.
 SNE 34 S.H.

27. ePZ 17 03 02 S.H.
 H: 16 50 27.7, h: 33 Km.
 Mariana Islands.

27. ePZ 17 29 18 S.H.
 e?Z 31 21 S.H.

28. ePZ 02 48 24 S.H.
 H: 02 35 48.8, h: 33 Km.
 Mariana Islands.

28. ePZ 05 14 54 S.H.
 H: 05 02 36.1, h: 33 Km.
 South Atlantic Ocean.

28. ePZ 05 21 37 S.H.
 H: 05 09 15.0, h: 33 Km.
 South Atlantic Ocean.

28. ePZ 08 12 58 S.H.
 Minor trace.

28. ePZ 09 27 45 S.H.
 Minor trace.

28. iPZ 10 52 22.1 S.H.
 SNE 40 S.H.

28. PZ 13 34 13 S.H.
 eSE 32 S.H.

28. PZ 15 34 21 S.H.
 PcPZ 39 40 S.H.
 H: 15 25 58.7, h: 53 Km.
 Andaman Islands.

28. ePZ 20 31 26 S.H.
 eSN 39 S.H.

28. ePZ 21 59 07 S.H.
 Minor trace.

29. PZ 02 25 19 S.H.
 H: 02 20 27.8, h: 33 Km.
 Arabian Sea.

29. ePZ 08 33 25 S.H.
 Minor trace.

29. ePZ 13 00 33 S.H.
 Minor trace.

29. ePZ 17 17 49 S.H.
 Minor trace.

29. ePZ 20 40 03 S.H.
 Minor trace.

29. ePZ 22 15 46 S.H.
 Minor trace.

29. ePZ 23 56 19 S.H.
 SNE 42 S.H.

30. ePZ 00 38 02 S.H.
 Minor trace.



30. ePZ 12 40 11 S.H.
SNE 34 S.H.

30. ePZ 18 43 38 S.H.
Minor trace.

30. ePZ 19 54 10 S.H.
Minor trace.

30. ePZ 21 15 05 S.H.
eSN 29 S.H.

30. epP'Z 22 11 26 S.H.
H: 21 51 22.9, h: 51 Km.
Cuerrero, Mexico.
Mag. $5\frac{1}{4}$ - $5\frac{1}{2}$ (Pal).

DECEMBER 1962

1. ePZ 02 02 53 S.H.
eSN 13.0 G.
H: 01 50 20.4, h: 38 Km.
Fox Islands, Aleutian
Islands.

1. ePZ 04 36 20 S.H.
Minor trace.

Ver-Web2

Tehran
March 27 1963

SEISMOLOGICAL BULLETIN OF
INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

Lat. $35^{\circ}44'16''$ N. a = + 0.50773
Long. $51^{\circ}23'08''$ E. b = + 0.63570
Height ... 1360 M. c = + 0.58146

KEY
OBSERVATORY
27 MAR 1963
RICHMOND,
SURREY.

OCTOBER 1962

- | | |
|--------------------------|-----------------------------|
| 1. ePZ 10 02 46 S.H. | 2. ePZ 07 45 00 S.H. |
| | eSE 18 S.H. |
| 1. ?Z 10 04 39 S.H. | 2. ePZ 12 34 54 S.H. |
| | eSE 35 17 S.H. |
| 1. ePZ 11 00 53 S.H. | 2. iPZ 12 47 30.5 S.H. |
| eSZ 01 12 S.H. | SEZ 51 S.H. |
| 1. iPZ 11 34 55.6 S.H. | 2. ePZ 14 05 55 S.H. |
| SN 35 13.6 S.H. | SE 06 11 S.H. |
| Compression. | |
| 1. PZ 12 16 02 S.H. | 2. ePZ 18 01 37 S.H. |
| SN 17 33 S.H. | eSEN 54 S.H. |
| H: 12 13 57.4, h: 16 Km. | 2. ePZ 20 39 59 S.H. |
| South of Iran. | Minor trace of local shock. |
| 1. ePZ 13 01 21 S.H. | 2. ePZ 21 23 58 S.H. |
| 1. PZ 16 51 56 S.H. | eSE 24 24 S.H. |
| eSE 52 19 S.H. | 2. ePZ 22 37 17 S.H. |
| 1. ePZ 18 42 31 S.H. | Minor trace of local shock. |
| eSE 48 S.H. | 2. ePZ 22 38 53 S.H. |
| 1. PZ 18 43 47 S.H. | Minor trace of local shock. |
| eSE 44 05 S.H. | 3. ePZ 01 27 05 S.H. |
| 1. iPZ 20 56 47.0 S.H. | H: 01 16 46.7, h: 33 Km. |
| SEZ 57 08 S.H. | Azores Region. |
| 1. iPZ 22 09 53.7 S.H. | 3. ePZ 01 29 39 S.H. |
| SE 10 17 S.H. | H: 01 19 22.5, h: 33 Km. |
| Compression. | Azores Region. |
| 2. ePZ 00 00 04 S.H. | 3. ePZ 08 32 09 S.H. |
| 2. ePZ 06 01 18 S.H. | eSE 33 34 S.H. |

3.	ePZ	11 11 12	S.H.	4.	ePZ	11 33 56	S.H.
	eSE	37	S.H.		Minor trace of		local shock.
3.	ePZ	12 32 27	S.H.	4.	ePZ	14 27 17	S.H.
	Minor trace of		local shock.		Minor trace of		local shock.
3.	ePZ	13 48 22	S.H.	4.	ePZ	16 13 51	S.H.
	Minor trace of		local shock.		eSE	14 09	S.H.
3.	ePZ	13 25 29	S.H.	4.	ePZ	17 40 24	S.H.
	Minor trace of		local shock.		Minor trace of		local shock.
3.	PZ	14 43 42	S.H.	4.	ePZ	19 01 21	S.H.
	eSE	44 01	S.H.				
3.	ePZ	15 13 47	S.H.	4.	ePZ	19 51 14	S.H.
	eSE	14 05	S.H.		eSE	55 24	G.
					eScS	20 01 09	G.
3.	ePZ	18 04 30	S.H.		H:	19 46 10.1 h: 38 Km.	
	eSE	40	S.H.		Greece.		
3.	e?Z	19 41 42	S.H.	4.	ePZ	21 06 25	S.H.
	e?E	42 39	S.H.,G.		Minor trace of		local shock.
	e?E	44 42	S.H.,G.	4.	ePZ	21 08 27	S.H.
4.	iPZ	00 37 04	S.H.		eSE	44	S.H.
	SNE	21	S.H.,G.	5.	ePZ	01 16 38	S.H.
4.	ePZ	02 10 58	S.H.		e?NE	19 16	S.H.
4.	ePZ	02 27 35	S.H.	5.	ePZ	02 32 41	S.H.
	eSE	53	S.H.		Minor trace of		local shock.
4.	ePZ	03 30 05	S.H.	5.	ePZ	06 33 40	S.H.
	Minor trace of		local shock.		Minor trace of		local shock.
4.	ePZ	03 46 54	S.H.	5.	ePZ	07 19 54	S.H.
	Minor trace of		local shock.		eSE	20 12	S.H.
4.	ePZ	05 36 00	S.H.	5.	ePZ	10 17 15	S.H.
	eSE	22	S.H.		eSEN	38	S.H.
4.	ePZ	06 00 44	S.H.	5.	ePZ	12 00 51	S.H.
	eSE	01 06	S.H.		eSE	01 17	S.H.
4.	iPZ	10 32 43.1	S.H.	5.	ePZ	12 54 42	S.H.
	SEN	33 02	S.H.		eSNE	55 00	S.H.
	Compression.			5.	ePZ	13 08 13	S.H.
					eSNE	46	S.H.

5.	PZ SEZ	19 08 07 21	S.H. S.H.	6.	ePZ eSE	13 06 57 07 13	S.H. S.H.
5.	ePZ eSE	19 30 57 31 41	S.H. S.H.	6.	ePZ eSNE	13 31 23 41	S.H. S.H.
5.	PZ eSE	20 03 55.8 05 22	S.H. S.H.	6.	PZ SNE	13 34 14.0 32	S.H. S.H.
6.	PZ eSNE	01 02 16 38	S.H. S.H.	6.	PZ SNEZ	14 23 22.1 41	S.H. S.H.
6.	ePZ SZ	01 05 22 44	S.H. S.H.	6.	ePZ Minor trace of local shock.	16 23 40	S.H.
6.	ePZ	01 37 14	S.H.	6.	ePZ	18 07 53	S.H.
6.	ePZ eSZ	02 09 52 10 06	S.H. S.H.	6.	PZ eSE	20 21 38 22 03	S.H. S.H.
6.	ePZ eSE	03 00 30 51	S.H. S.H.	6.	ePZ Minor trace of local shock.	21 20 48	S.H.
x 6.	ePZ eSE	03 16 52 17 12	S.H. S.H.	6.	ePZ eSE	23 19 49 20 09	S.H. S.H.
x 6.	ePZ eSEZ	03 23 06 22	S.H. S.H.	7.	iPZ eSEZ	00 05 02.3 23	S.H. S.H.
6.	ePZ H: 03 17 07.2, h: 33 Km. Azores Region.	03 27 23	S.H.	7.	ePZ SNE	00 25 31 48	S.H. S.H.
6.	iPZ SNEZ	04 56 09.7 28.7	S.H. S.H.	7.	ePZ	01 50 40	S.H.
6.	iPZ iSEN	05 30 54.4 31 10.8	S.H. S.H.	7.	PZ SNE	04 42 05 20	S.H. S.H.
6.	ePZ	05 49 05	S.H.	7.	ePZ eSNE	07 05 48 06 10	S.H. S.H.
6.	ePZ eSNE	07 28 49 29 06	S.H. S.H.	7.	ePZ Minor trace of local shock.	08 48 13	S.H.
6.	ePZ	11 19 10	S.H.	7.	ePZ Near shock.	08 58 04	S.H.
6.	ePZ eSE	11 51 20 38	S.H. S.H.	7.	ePZ eSE	10 34 30 54	S.H. S.H.
6.	ePZ Minor trace of local shock.	12 04 49	S.H.	7.	ePZ eSE	10 44 29 34	S.H. S.H.

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|----|-----------------------------|------------|------|----|--------------------------------------|------------|---------|
| 7. | ePZ | 13 26 58 | S.H. | 8. | ePZ | 21 16 17 | S.H. |
| | SEZ | 27 20 | S.H. | | Minor trace of local shock. | | |
| 7. | iPZ | 15 31 28.1 | S.H. | 8. | ePZ | 22 06 35 | S.H.,G. |
| | SNE | 45 | S.H. | | SN | 14 54 | G. |
| 7. | ePZ | 16 31 11 | S.H. | | H: 21 56 22.2, h: 29 Km. | | |
| | eSNE | 34 | S.H. | | Near east coast of Formosa. | | |
| 7. | ePZ | 18 11 27 | S.H. | | Mag. 6 (Pas), 6 $\frac{1}{4}$ (Pal). | | |
| | eSNE | 49 | S.H. | 8. | ePZ | 22 14 54 | S.H. |
| 7. | ePZ | 20 54 01 | S.H. | | eSEZ | 15 17 | S.H. |
| | Minor trace of local shock. | | | 8. | ePZ | 22 24 17 | S.H. |
| 7. | ePZ | 22 40 37 | S.H. | | eSE | 32 | S.H. |
| | Minor trace of local shock. | | | 8. | ePZ | 22 34.5 | S.H. |
| 7. | ePZ | 23 54 31 | S.H. | | H: 22 24 06.5, h: 39 Km. | | |
| | Minor trace of local shock. | | | | Near east coast of Formosa. | | |
| 8. | ePZ | 02 01 31 | S.H. | 9. | iPZ | 02 18 37.6 | S.H. |
| | Minor trace of local shock. | | | | SNE | 58.5 | S.H. |
| 8. | ePZ | 05 24 38 | S.H. | 9. | ePZ | 04 29 41 | S.H. |
| 8. | PZ | 06 30 46 | S.H. | | Minor trace of local shock. | | |
| | SE | 31 11 | S.H. | 9. | ePZ | 05 27 17 | S.H. |
| 8. | ePZ | 06 49 14 | S.H. | | eSE | 40 | S.H. |
| | eSE | 32 | S.H. | 9. | ePZ | 05 48 59 | S.H. |
| 8. | PZ | 07 53 29 | S.H. | | Minor trace of local shock. | | |
| | SNE | 48 | S.H. | 9. | ePZ | 06 34 49 | S.H. |
| 8. | PZ | 08 29 11 | S.H. | 9. | ePZ | 07 49 48 | S.H. |
| | SNE | 29 | S.H. | | eSNE | 50 13 | S.H. |
| 8. | ePZ | 12 07 29 | S.H. | 9. | ePZ | 11 25 23 | S.H. |
| | Minor trace of local shock. | | | 9. | ePZ | 13 21 06 | S.H. |
| 8. | ePZ | 14 31 29 | S.H. | | Minor trace of local shock. | | |
| 8. | ePZ | 15 16 06 | S.H. | 9. | ePZ | 16 02 55 | S.H. |
| 8. | ePZ | 15 21 30 | S.H. | | eSEN | 05 52 | S.H. |
| | Minor trace of local shock. | | | | H: 15 59 17.5, h: 241 Km. | | |
| 8. | ePZ | 15 59 37 | S.H. | | Hindu Kush. | | |
| | Minor trace of local shock. | | | 9. | PZ | 16 58 35 | S.H. |
| 8. | ePZ | 19 22 12 | S.H. | | eSE | 53 | S.H. |
| | Minor trace of local shock. | | | 9. | ePZ | 17 11 05 | S.H. |
| | | | | | eSE | 23 | S.H. |
| | | | | 9. | ePZ | 18 07 06 | S.H. |
| | | | | | eSE | 24 | S.H. |

9.	ePZ	20 28 15	S.H.	12.	ePZ	17 09 36	S.H.
	ePPZ	32 15	S.H.		eSNE	59	S.H.
	eSE	38 56	G.	12.	ePZ	17 15 15	S.H.
	eSKSE	39 18	G.		eSE	27	S.H.
H:	20 14	38.3, h: 33	Km.	12.	ePZ	18 13 57	S.H.
		Bismark Sea.			eSE	14 15	S.H.
		Mag. $6\frac{1}{4}$ (Pas).		12.	iPZ	23 28 25.5	S.H.
9.	ePZ	23 36 56	S.H.		SNE	42.0	S.H.
	eSE	37 14	S.H.		Compressive.		
10.	ePZ	02 23 07	S.H.	13.	ePZ	03 07 03	S.H.
	eSE	25 19	G.		Minor trace of local shock.		
10.	ePZ	20 35 13	S.H.	13.	ePZ	03 22 55	S.H.
	SE	36 33	G.		Minor trace of local shock.		
10.	ePZ	20 45 37	S.H.	13.	iPZ	10 23 55.5	S.H.,G.
	eSNE	48 12	G.	H:	10 23	38.2, h: 33	Km.
H:	20 43	36.6, h: 47	Km.			North west Iran Felt Tehran.	
		Iran. Felt Fasa.				Dilatation.	
11.	ePZ	04 02 25	S.H.	13.	ePZ	11 20 03	S.H.
	eSNE	45	S.H.		eSNE	19	S.H.
11.	iPZ	10 28 29.0	S.H.	13.	ePZ	11 45 13	S.H.
	SNE	45	S.H.		eSNE	29	S.H.
11.	iPZ	13 35 32	S.H.	13.	iPZ	12 08 18.7	S.H.
	eSNE	48	S.H.		eSNE	35	S.H.
11.	iPZ	19 56 02	S.H.	13.	ePZ	12 44 13	S.H.
	SNE	20	S.H.		eSNE	29	S.H.
	Compressive.			13.	ePZ	13 15 17	S.H.
11.	ePZ	21 24 45	S.H.		eSE	33	S.H.
	eSE	25 08	S.H.	13.	ePZ	13 17 16	S.H.
11.	iPZ	22 58 17.6	S.H.		Minor trace of local shock.		
	SNE	32.6	S.H.	13.	ePZ	13 32 02	S.H.
	Compressive.				eSNE	17	S.H.
12.	ePZ	00 09 17	S.H.	13.	PZ	13 59 37	S.H.
	eSE	38	S.H.		eSNE	53	S.H.
12.	PZ	05 59 58	S.H.	13.	ePZ	14 45 44	S.H.
	eSE	06 00 15	S.H.		Minor trace of local shock.		
12.	ePZ	10 15 17	S.H.	13.	iPZ	17 40 31.6	S.H.
	eSNE	32	S.H.		SNE	48	S.H.
12.	ePZ	11 23 33	S.H.		Compressive.		
	Minor trace of local shock.						

13.	ePZ	18 16 28	S.H.	15.	ePZ	09 14 47	S.H.
	Minor trace of local shock.				eSE	15 10	S.H.
13.	ePZ	18 45 58	S.H.	15.	ePZ	13 31 05	S.H.
	Minor trace of local shock.				iSNE	29	S.H.
13.	ePZ	20 46 43	S.H.	15.	ePZ	15 32 36	S.H.
	eSNE	59	S.H.		Minor trace.		
13.	ePZ	21 17 03	S.H.	15.	iPZ	18 03 53.9	S.H.
	Minor trace of local shock.				iSNE	04 06.5	S.H.
13.	iPZ	21 45 11.6	S.H.	15.	iPZ	20 21 30.4	S.H.
	SE	29	S.H.		iSEZ	49.6	S.H.
	Compressive.						
13.	ePZ	22 24 18	S.H.	15.	ePZ	21 14 54	S.H.
	eSE	42	S.H.		eSE	15 10	S.H.
14.	ePZ	02 19 35	S.H.	15.	e?Z	22 07 24	S.H.
	SE	51	S.H.		Minor trace.		
14.	ePZ	13 18 59	S.H.	15.	iPZ	23 10 09.5	S.H.
	Minor trace.				iSE	27.2	S.H.
14.	ePZ	14 05 22	S.H.	15.	e?Z	23 55 47	S.H.
	eSNE	06 55	S.H.				
14.	ePZ	15 19 38	S.H.	15.	e?Z	23 59 14	S.H.
	Minor trace.			16.	ePZ	02 29 23	S.H.
14.	ePZ	16 01 56	S.H.		Minor trace .		
	eSEN	02 12	S.H.	16.	iPZ	03 53 56.2	S.H.
14.	ePZ	16 10 05	S.H.		iSNEZ	54 14.5	S.H.
	Minor trace.			16.	ePZ	07 25 56	S.H.
14.	ePZ	17 42 02	S.H.		ePPZ	28 08	S.H.
	eSE	19	S.H.		H: 07 15 32.7, h: 33 Km.		
14.	ePZ	19 42 18	S.H.		South of Mascarene Islands.		
	Minor trace.			16.	ePZ	08 43 21	S.H.
14.	ePZ	20 28 40	S.H.		SEN	39	S.H.
	eSE	29 04	S.H.	16.	ePZ	09 10 57	S.H.
15.	ePZ	03 19 54	S.H.		Minor trace of local shock.		
	eSNE	20 17	S.H.	16.	ePZ	10 18 49	S.H.
15.	ePZ	05 57 45	S.H.		Minor trace		
	eSE	58 10	S.H.	16.	ePZ	12 00 27	S.H.
15.	iPZ	08 14 32.2	S.H.		eSE	02 04	S.H.
	eSE	52	S.H.		H: 11 58 45.6 h; 33 Km.		
					Iran.		
				16.	ePZ	13 00 18	S.H.
					iSE	35.0	S.H.

16.	ePZ	17 00 40	S.H.	19.	ePZ	14 02 43	S.H.
	SNE	58	S.H.		Minor trace of local shock.		
16.	iPZ	18 13 21.2	S.H.	19.	ePZ	14 37 17	S.H.
	SEN	38.5	S.H.		Minor trace of local shock.		
	Dilatation.			19.	ePZ	15 54 03	S.H.
16.	ePZ	23 18 32	S.H.		Minor trace of local shock.		
	eSEN	52	S.H.	19.	ePZ	21 36 07	S.H.
17.	PZ	07 44 17.5	S.H.		Minor trace of local shock.		
	SE	36.	S.H.	19.	PZ	22 55 58	S.H.
17.	ePZ	13 14 05	S.H.		eSE	56 32	S.H.
	Minor trace of local shock.			19.	ePZ	23 09 31	S.H.
17.	iPZ	14 37 22.7	S.H.		Minor trace of local shock.		
	SE	41	S.H.	20.	ePZ	04 23 57	S.H.
17.	ePZ	16 39 32	S.H.		eSE	17	S.H.
	eSE	53	S.H.	20.	iPZ	09 15 59.5	S.H.
17.	ePZ	16 46 55	S.H.		SEN	16 19	S.H.
	eSE	47 13	S.H.		Compressive.		
17.	ePZ	19 35 13	S.H.	20.	ePZ	16 15 15	S.H.
	SEN	29	S.H.		Minor trace of local shock.		
18.	ePZ	02 03 52	S.H.	20.	ePZ	17 24 14	S.H.
	eSE	04 12	S.H.		Minor trace of local shock.		
18.	ePZ	02 11 01	S.H.	20.	ePZ	20 11 45	S.H.
	Minor trace of near shock.				eSE	12 04	S.H.
18.	ePZ	17 42 26	S.H.	21.	ePZ	01 09 27	S.H.
	SEN	48	S.H.		Minor trace of local shock.		
19.	ePZ	02 57 13	S.H.	21.	ePZ	02 17 29	S.H.
	Minor trace				eSEN	27 26	S.H.
19.	ePZ	04 06 27	S.H.		H: 02 05 22.7, h: 80 Km.		
	eSEN	48	S.H.		Vicinity Anchorage, Alaska		
19.	ePZ	05 14 37	S.H.		Felt.		
	Minor trace.			21.	ePZ	02 29 34	S.H.
19.	iPZ	08 26 05.7	S.H.		Minor trace of local shock.		
	SE	23	S.H.	21.	ePZ	02 31 51	S.H.
19.	ePZ	10 33 25	S.H.		Minor trace of local shock.		
	eSE	49	S.H.	21.	ePZ	08 26 14	S.H.
19.	ePZ	13 39 00	S.H.		Minor trace of local shock.		
	Minor trace.			21.	ePZ	09 54 54	S.H.
					Minor trace of local shock.		

21.	iPZ	10 55 42.3	S.H.				
	SE	55 59	S.H.				
21.	ePZ	11 09 46	S.H.				
	SE	10 11	S.H.				
21.	ePZ	14 55 09	S.H.				
	Minor trace of local shock.						
21.	ePZ	15 02 06	S.H.				
	Minor trace						
21.	ePZ	15 33 14	S.H.				
	Minor trace of local shock.						
21.	ePZ	17 16 53	S.H.				
	Minor trace of local shock.						
21.	ePZ	18 01 03	S.H.				
	Minor trace of local shock						
21.	ePZ	18 26 13	S.H.				
	Minor trace of local shock.						
22.	iPZ	03 48 11.0	S.H.				
	SE	32	S.H.				
22.	ePZ	06 35 11	S.H.				
	eSE	36	S.H.				
22.	iPZ	09 01 06.0	S.H.				
	SE	23	S.H.				
22.	ePZ	15 34 57	S.H.				
	H: 15 35 26, h: 19 Km. Northern Kurile Islands.						
23.	ePZ	01 23 52	S.H.				
	eSE	24 10	S.H.				
23.	ePZ	06 38 12	S.H.				
	eSE	39 51	S.H.				
23.	iPZ	06 47 58.5	S.H.				
	SE	48 08	S.H.				
23.	ePZ	07 09 55	S.H.				
	Minor trace.						
23.	ePZ	16 46 26	S.H.				
23.	ePZ	19 34 39	S.H.				
	eSE	57	S.H.				
23.	PZ	21 11 29	S.H.				
	eSE	48	S.H.				
23.	PZ	21 53 21	S.H.				
	SE	38	S.H.				
24.	PZ	00 42 16	S.H.				
	SE	28	S.H.				
24.	ePZ	04 53 25	S.H.				
	eSZ	44	S.H.				
24.	ePZ	06 57 32	S.H.				
	eSE	06 57 49	S.H.				
24.	ePZ	07 01 14	S.H.				
	Minor trace of local shock.						
24.	ePZ	07 02 14	S.H.				
	eSE	30	S.H.				
24.	ePZ	23 50 21	S.H.				
	Minor trace of local shock.						
25.	ePZ	01 11 22	S.H.				
	Minor trace of local shock.						
25.	ePZ	02 46 55	S.H.				
	Minor trace of local shock.						
25.	ePZ	03 13 06	S.H.				
	Minor trace of local shock.						
25.	ePZ	04 50 24	S.H.				
	Minor trace of local shock.						
25.	ePZ	03 50 24	S.H.				
	Minor trace of local shock.						
25.	ePZ	09 08 04	S.H.				
	eSE	23	S.H.				
25.	ePZ	09 46 03	S.H.				
	eSNE	55 47	S.H.,G.				
	eSSNE	10 00 05	S.H.,G.				
	H: 09 34 14.6, h: 33 Km. Molucca Passage.						
25.	ePZ	10 28 47	S.H.				
	Minor trace.						

25.	PZ	11 06 18	S.H.	27.	ePZ	07 08 33	S.H.
	SE	37	S.H.		eSE	51	S.H.
25.	PZ	11 53 15	S.H.	27.	ePZ	08 37 47	S.H.
	SNE	33.5	S.H.		SE	38 10	S.H.
25.	PZ	18 09 12	S.H.	27.	PZ	10 00 31	S.H.
	SNE	35	S.H.		SNE	52	S.H.
25.	ePZ	19 24 02	S.H.	27.	ePZ	11 56 16	S.H.
	eSNE	25 35	G.		Minor trace of local shock.		
25.	ePZ	20 25 12	S.H.	27.	PZ	22 43 43	S.H.
	ePPZ	27 55	S.H.		SNE	44 00	S.H.
H:	20 06 10.0, h: 33 Km.			27.	ePZ	23 30 57	S.H.
	South west of Macquarie Islands.				SE	31 13	S.H.
25.	ePZ	21 50 52	S.H.	28.	ePZ	02 20 00	S.H.
	eSE	52 20	S.H.,G.		eSN	21 26	S.H.
25.	ePZ	23 46 01	S.H.	28.	ePZ	07 01 15	S.H.
	SENZ	20	S.H.		eSE	18	S.H.
26.	ePZ	07 38 09	S.H.	28.	ePZ	07 23 10	S.H.
	Minor trace.				SE	31	S.H.
26.	ePZ	08 44 56	S.H.	28.	iPZ	14 33 46.0	S.H.
	Minor trace of local shock.				iSNE	34 02	S.H.
26.	PZ	11 30 41.5	S.H.	28.	PZ	17 00 37.5	S.H.
	SNE	31 26	S.H.,G.		SEZ	58	S.H.
H:	11 26 12.4, h: 33 Km.			28.	PZ	18 00 02.2	S.H.
	Eastern Mediterranean Sea.				SEZ	24	S.H.
26.	ePZ	11 38 51	S.H.	28.	ePZ	19 53 45	S.H.
	eSE	39 12	S.H.		Minor trace of local shock.		
26.	iPZ	14 24 40.3	S.H.	29.	PZ	00 08 32	S.H.
	SNE	25 26	S.H.		SEZ	52	S.H.
26.	ePZ	15 44 46	S.H.	29.	ePE	03 54 57	S.H.
	Minor trace of local shock.				SE	55 17	S.H.
26.	ePZ	20 05 19	S.H.	29.	ePZ	06 20 22	S.H.
	Shallow local shock.				eSE	43	S.H.
27.	PZ	00 53 16	S.H.	29.	ePNZ	07 24 17	S.H.,G.
	SNE	37	S.H.		Distance shock.		
27.	ePZ	04 09 24	S.H.	29.	iPZ	07 33 38.2	S.H.
	SE	55	S.H.		SNE	56	S.H.

29. ePZ 11 27 28 S.H.
SE 46 S.H.

29. ePZ 12 12 59 S.H.

29. ePZ 21 21 27 S.H.

29. ePZ 22 43 36 S.H.
Minor trace of local shock.

30. ePZ 01 41 56 S.H.
SEZ 42 15 S.H.

30. ePZ 01 59 59 S.H.
H: 01 46 32.7, h: 80 Km.
Bouvet Island region.

30. ePZ 07 48 34 S.H.
Minor trace of local shock.

30. ePZ 11 02 38 S.H.
Minor trace of local shock.

30. ePZ 11 26 01 S.H.
SNE 25 S.H.

30. ePZ 12 02 05 S.H.
SNE 24 S.H.

30. ePZ 14 05 22 S.H.
eSE 06 34 S.H.

30. ePZ 15 49 24 S.H.
eSN 50 52 G.

30. ePZ 15 55 14 S.H.
eSN 56 41 G.

31. ePZ 00 00 06 S.H.
Minor trace of near shock.

31. ePZ 00 23 08 S.H.
eSE 24 01 S.H.

31. ePZ 02 02 32 S.H.
eSE 03 22 S.H.

31. ePZ 03 17 05 S.H.
Minor trace of local shock.

31. iPZ 09 02 31.3 S.H.
iSE 47.6 S.H.

31. ePZ 11 22 26 S.H.
Minor trace of local shock.

31. ePZ 15 22 09 S.H.
Minor trace of local shock.

31. ePZ 18 57 41. S.H.
eSE 58 00 S.H.

31. ePZ 20 25 36 S.H.
Minor trace of local shock.