

University of Ljubljana,
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.Box 01-20, Yugoslavia

1966

PRELIMINARY SEISMOLOGICAL
BULLETIN

January-March 1966

University of Ljubljana
Astronomical and Geophysical
Observatory,
Ljubljana, Trg revolucije 11,
P.O.B. 01.20, Yugoslavia



PRELIMINARY SEISMOLOGICAL BULLETIN
from January 1, to March 31, 1966

Station: LJUBLJANA (LJU) - Coordinates: $46^{\circ} 02.6' N$ Lat.
 $14^{\circ} 32.0' E$ Long.

Geocentric direction cosines: $a=+6743$, $b=+1748$, $c=+7175$,
 $d=-8$, $h=4$;

Height above mean sea level: 396 m;

Lithologic foundation: sandstone (carbon);

Instruments:

Wiechert, horizontal astatic seismograph, $M=200$ kg, mechanical
registration, 16-18 mm/min;

Constants (January 31, 1966):

Component	To	$v:1$	r/T_0^2	V
N-S	5.0	2.20	0.0043	69
E-W	4.9	2.37	0.0058	67

Hiller-Stuttgart, vertical component (Z) with galvanometrical
recording; $T_0=1.5$ sec, $T_g=1.5$ sec, $D_1=D_2=1$,
 $V_{max}=10150$ x, registration velocity: 60 mm/min.

Note: Periods of seismic waves are given in seconds, the
amplitudes in microns; sign+ means compression, movement of
ground towards north or east, sign - means dilatation or
movement towards south or west. All times are given in GMT.
Time signals are received one or two times daily from
Prague and are registered on a chronograph. Wherever possi-
ble time readings up to one tenth of a second are given.
Macro seismic data refer to Mercalli-Cancani-Sieberg scale
(MCS), macro seismic rays are given in kilometers. Abbreviation
DECM means: Determination by electronic computer.

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- 1 eZ P 19 35 37, USCGS: H= 19 25 50.9, 0.6 N, 25.4 W,
h=33 km, Central Mid-Atlantic ridge. $M=4.8$ SD 0.7 (CGS)
- 2 eiZ P 04 16 51, USCGS: H= 04 04 45.4, 31.3 N, 138.2 E,
h=314 km, South of Honshu, Japan. $M=5.2$ SD 0.5 (CGS).
- 2 eZ PKP 15 06 55, USCGS: H= 14 47 06.3, 17.1 S, 172.0 W,
h=39 km, Tonga Islands region, $M=4.9$ SD 0.4 (CGS).
- 2 eZ Pn 23 14 51, iZ 23 15 29.2, iZ Pg 23 15 41.9, eiZ

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- 2 (cont.) Sn 23 16 48, D=1130 km, BCIS: H= 23 12 19 (DECM), 36.6°N, 23.4°E, Gulf of Athens, Greece. M=4.6 (Athens). USCGS: H= 23 12 18.8, 37.5 N, 23.4 E, h=22 km, Southern Greece. Felt in Corinth Area. M=4.9 SD 1.9 (CGS).
- 3 eiZ PKP 13 52 27, USCGS: H= 13 33 32.6, 20.3 S, 178.5 W, h=537 km, Fiji Islands region. M=5.3 SD 0.7 (CGS).
- 3 eiZ PKP 16 03 55, USCGS: H= 15 44 44.9, 18.9 S, 169.4 E, h=249 km, New Hebrides Islands. M=4.8-5 (BRK), 5.4 SD 0.7 (CGS).
- 3 eiZ P or PKP 18 28 42, iZ 18 29 08.6.
- 4 eZ P 07 58 39, USCGS: H= 07 47 00.0, 11.8 N, 95.0 E, h=33 km, Andaman Islands region. M=5.1 SD 0.5 (CGS).
- 4 eZ Pn 12 51 11, eZ 12 52 22, eZ 12 52 34.
- 5 eZ P 17 33 03, iZ 17 33 10.1, iZ! 17 33 18.6, iZ! 17 33 20.2, USCGS: H= 17 21 28.4, 13.2 N, 95.5 E, h=37 km, Andaman Islands region, M=5.3 SD 0.8 (CGS).
- 5 eZ(Pn) 23 48 33, eZ 23 49 08, eZ 23 50 09, obscured by microseisms.
- 6 eZ (Pn) 10 34 30, eZ 10 34 27, obscured by microseisms.
- 8 eiZ P 22 51 45, USCGS: H= 22 39 17.9, 37.3 N, 138.3 E, h=10 km, Near west coast of Honshu, Japan. Felt at Nagano, Takada and Tokyo. M=5.6 SD 0.8 (CGS).
- 9 eiZ (Sg) 00 06 21.
- 9 eZ P or PKP 06 20 44.
- 9 iZ P 09 22 43.7, iZ 09 23 35.9, USCGS: H= 09 11 30.3, 11.5 N, 62.3 W, h=156 km, Windward Islands. Felt at Port of Spain and in eastern part of Venezuela. M=5.1 SD 1.1 (CGS).
- 10 eZ P 00 29 10, USCGS: H= 00 17 27, 54.4 N, 161.6 W, h=33 km, Alaskan Peninsula. M=4.5 SD 1.6 (CGS).
- 10 Z P 01 32 (00), eZ pP 01 32 38, USCGS: H= 01 19 12.1, 13.9 N, 120.8 E, h=134 km, Mindoro, Philippine Islands. M=5.5 SD 1.3 (CGS).
- 10 eiZ Pn 05 19 31.8, iZ 05 19 40.2, eZ Sn 05 20 14, iZ 05 20 20.8, D=380 km.
- 12 iZ- Pg 12 39 44.1, iZ! Sg 12 39 46.0, D=96 km.
- 12 iZ Sg 08 16 25.3, trace.
- 12 eZ Pg 10 13 51, eZ Sg 10 13 56, D=40 km, Slightly felt at Trbovlje (46° 10' N, 15° 04' E), Slovenia, Yugoslavia
- 12 iZ Pg 13 17 47.1, iZ(Sg) 13 18 00.9, (D=110 km).
- 13 eZ 08 26 05, eZ 08 26 40, eZ 08 27 09.
- 13 eZ P 10 53 19, eZ 10 54 22, USCGS: H= 10 41 11.0, 52.9 N, 172.0 E, h=14 km, Near Islands, Aleutian Islands, M=4-4 1/2 (BRK), 5 1/2-5 3/4 (PAL), 5.6 SD 0.9 (CGS).
- 14 eZ 05 51 28, iZ(Sg) 05 51 42.7, traces.



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- 14 iZ- Pn 17 49 13.9, iZ 17 49 24.4, eiZ(Sn) 17 50 22, iZ 17 50 38.0.
- 14 eZ(Pn) 18 42 58, eZ 18 43 06, eZ 18 43 35, BCIS: H= 18 39 33 (DECM), 34.7 N, 27.0 E, h=40 km, Mediterranean Sea, southwest of Crete.
- 14 eZ PKP 21 00 42, USCGS: H= 20 41 07.5, 17.4 S, 166.7 E, h=33 km, New Hebrides Islands. M=5.4 SD 1.5 (CGS).
- 14 eZ (Sg) 21 34 51, eZ 21 34 59.
- 14 eZ Pn 22 21 48, eZ 22 22 58, eZ (Sn) 22 23 16, (D=840 km).
- 16 eZ P 09 23 57, USCGS: H= 09 11 50.0, 52.9 N, 171.9 E, h=25 km, Near Islands, Aleutian Islands, M=5.7 SD 0.5 (CGS).
- 16 iZ+ Pg 09 57 42.0, iZ Sg 09 57 49.1, D=56 km, not felt.
- 16 eZ P 12 35 06, eZ 12 35 29, eZ 12 36 57, eZ 12 37 25, BCIS: H= 12 32 51 (DECM), 50° 27' N, 4° 15' E (BCIS), 50° 26' N, 4° 14' E (UCCLE), Press: felt within Mons and Charleroi. Damage at Morlanwelz Chapelle-ler-Herlaimont and Carnieres, fall of chimneys. M=4.4 (Bensberg), 3 (Pruhonice).
- 16 iZ P 18 55 36.3, iZ 18 55 55.6, iZ 18 56 45.6, iZ 18 57 45.8, iZ S 18 58 08.4, D=1560 km, BCIS: H= 18 51 55 (DECM), 32 3/4 N, 25 1/2 E, Mediterranean Sea, south of Crete, USCGS: H= 18 52 00.8, 33.2 N, 26.2 E, h=33 km, Eastern Mediterranean Sea, M=5.0 SD 1.4 (CGS).
- 17 iZ Pn 08 41 27.4, iZ 08 42 09.4, iZ Sn 08 42 48.5, eZ 08 43 52, D=770 km, BCIS: H= 08 39 45, 40.0 N, 20 1/2 E, Central Albania. USCGS: H= 08 39 41.4, h=34 km, 40.2 N, 20.6 E, Greece-Albania border region. M=4.3 SD 0.6 (CGS).
- 17 eiZ 18 08 54, eZ 18 10 06, USCGS: H= 17 49 59.3, 18.6 S, 177.8 W, Fiji Islands region, h=364 km, M=5.3 SD 0.7 (CGS).
- 17 eZ(Pn) 20 07 12, eiZ Sn 20 08 55, (D=980 km), BCIS: H= 20 04 59 (DECM), 38.0 N, 22.0 E, h=50 km, Peloponnesos, Greece, M=4.3 (Athens), USCGS: H= 20 04 59.4, 38.2 N, 22.1 E, h=73 km, Greece, M=4.4 SD 1.2 (CGS).
- 18 iZ+ P 20 22 31.4, BCIS: H= 20 20 27 (DECM), 46.0 N, 26.8 E, h=60 km, Carpathes (Romania), USCGS: H= 20 20 24, 46.0 N, 26.9 E, h=63 km, Romania, M=4.4 SD 1.5 (CGS).
- 18 eZ P 21 23 14, eZ S 21 25 38, D=1480 km, BCIS: H= 21 19 56 (DECM), 35.0 N, 23.6 E, Mediterranean Sea, west of Crete. M=4.4 (Athens). USCGS: H= 21 20 00.3, 35.0 N, 23.7 E, h=52 km, Crete, M=4.9 SD 1.1 (CGS).
- 19 eZ+ P 01 57 48, USCGS: H= 01 45 26.1, 3.4 N, 97.3 E, h=33 km, Northern Sumatra, M=4.8 SD 2.0 (CGS).
- 19 eZ Pn 07 02 07, eZ(Sn) 07 03 04, (D=530 km), BCIS: H= 07 00 32 (DECM), 45.8 N, 6.7 E, France, western Alps, SW of Mont Blanc.

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- 20 eZ (Pn) 00 41 23, eZ 00 41 36, eZ Sn 00 43 11, (D=1050 km), obscured by microseisms, BCIS: H= 00 39 00 (DECM), 39.0 N, 24.4 E, Aegean Sea, M=4.4 (Athens), USCGS: H= 00 39 01.6, 39.2 N, 24.4 E, h=25 km, Aegean Sea. Felt: Sporades Islands, M=4.3 SD 1.3 (CGS).
- 20 iZ Pg 14 39 55.5, Z Sg 14 40 (00), (D=33 km).
- 20 eZ P 14 58 11, USCGS: H= 14 46 06.2, 53.0 N, 171.8 E, h=29 km, Near Islands, Aleutian Islands, M=5.4 SD 0.5 (CGS).
- 20 eZ PKP 15 20 37, USCGS: H= 15 01 53.4, 15.3 S, 173.0 W, h=33 km, Samoa Islands region. Felt at Apia, M=5.3 SD 1.8 (CGS).
- 20 eZ P 23 49 31, USCGS: H= 23 37 02.3, 22.9 N, 121.2 E, h=64 km, Taiwan region. M=4.9 SD 0.9 (CGS).
- 21 eiZ Pn 03 12 37.0, eZ Pg 03 12 41, eiZ (Sn) 03 13 01, iZ! 03 13 02.9, (D=210 km).
- 22 eZ(P) 00 27 08, eZ 00 27 14, BCIS: H= 00 23 46 (DECM), 37.9 N, 30.0 E, Anatolia, USCGS: H= 00 23 42.7, 37.7 N, 30.0 E, h=23 km, Turkey. M=5.0 SD 1.3 (CGS).
- 22 eZ(Pn) 02 49 19, eZ 02 49 57, traces.
- 22 eZ 04 33 44, eZ(Sn) 04 34 39, traces.
- 22 eZ(Pn) 05 03 49, eiZ Sn 05 04 21, eZ Sg 05 04 34, (D=300 km).
- 22 eZ P 07 49 35, USCGS: H= 07 36 49.3, 17.4 N, 94.1 W, h=139 km, Chiapas, Mexico. M=4.9 SD 1.2 (CGS).
- 22 eZ PKP₁ 11 19 44, iZ! PKP₂ 11 19 50.2, USCGS: H= 11 01 05.3, 17.9 S, 178.5 W, h=598 km. Fiji Islands region. M=5-5.4 (BRK), 5.3 SD 0.9 (CGS).
- 22 eZ 12 49 08, eZ 12 49 28, traces.
- 22 eZ(Pg) 13 46 33, eZ Sg 13 46 49, (D=130 km).
- 22 eZ P 14 39 03, eZ PP 14 42 00, USCGS: H= 14 27 07.9, 56.0 N, 153.7 W, h=33 km, South of Alaska. M=6 1/4 (BRK), 6 (PAS), 6 1/4-6 1/2 (PAL), 5.8 SD 0.9 (CGS).
- 22 eZ (Sg) 16 52 17, traces.
- 22 eZ (Pg) 18 53 39, iZ Sg 18 53 42.2, D=23 km.
- 22 eZ (Pn) 23 52 23, iZ Sn 23 52 44.6, (D=190 km).
- 23 Z Pn 01 31 (53), iZ! Pg 01 31 59.6, iZ! Sn 01 32 20.0, iZ!! Sg 01 32 25.8, D=200 km, BCIS: H= 01 31 29 (DECM), 46.0 N, 12.1 E, Venetian Alps (Italy). M=3.9 (Moxa). USCGS: H= 01 31 29, 45.9 N, 12.2 E, h=33 km, Northern Italy, M=3.8 SD 1.5 (CGS).
- 24 eZ P 07 31 28, USCGS: H= 07 23 07.6, 29.9 N, 69.7 E, h=12 km, Western Pakistan. Felt at Barkhan, Dera, Ghazi Khan and Multan. M=5.8 SD 1.0 (CGS).
- 24 eZ P 15 41 11, USCGS: H= 15 32 48.1, 29.9 N, 69.8 E, h=33 km, Western Pakistan. Felt at Barkhan.

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- 25 eZ P or PKP 06 01 12.
- 26 iZ- Pg 00 42 08.4, iZ Sg 00 42 09.7, D=10 km, traces.
- 26 iZ Pg 04 06 43.3, iZ Sg 04 06 45.5, D=15 km, felt 2° in Ljubljana.
- 26 iZ Pn 13 32 29.8, iZ 13 32 38.0, iZ 13 33 52.6, iZ Sn 13 34 02.7, D=980 km, BCIS: H= 13 30 31, Premonitory shock of earthquake on February 5, 1966 at 02 01 49, Greece.
- 28 eZ PKP 04 55 27, iZ! 04 55 31.2, eZ pPKP 04 57 37, USCGS: H= 04 36 46.1, 17.5 S, 176.9 E, h=558 km, Fiji Islands region. M=5 (BRK), 5.6 SD 0.8 (CGS).
- 28 eZ PKP 06 01 50, iZ! 06 01 55.0, eZ PP 06 05 06, USCGS: 05 42 16.4, 17.1 S, 168.4 E, h=24 km, New Hebrides Islands. Felt on Tongoa and Port Vila. M=6 1/2 (PAS), 5 3/4-6 (BRK), 5.7 SD 0.9 (CGS).
- 28 eiZ Pn 17 54 20, eiZ Sn 17 55 15, D=510 km, BCIS: H= 17 52 49, 46.6 N, 7.6 E, Berner Alpen, Switzerland. M=3.9 (Bensberg), 3.8 (Moxa).
- 29 eiZ Pg 05 42 17, iZ Sg 05 42 33.4, D=135 km.
- 29 eZ PKP 06 43 54, USCGS: H= 06 24 22.7, 16.9 S, 168.4 E, h=33 km, New Hebrides Islands. Felt at Port Vila. M=4.9 SD 1.6 (CGS).
- 30 eZ 00 53 32, eiZ Sg 00 53 37.
- 30 eZ (Pn) 03 04 06, eZ Sn 03 05 30, (D=800 km). USCGS: H= 03 01 59, 38.8 N, 21.7 E, Greece, h=69 km, M=4.1 SD 1.1 (CGS).
- 30 eZ (Pn) 05 53 56, eZ 05 54 27, eiZ 05 55 04.
- 30 eZ Pn 06 49 05, iZ Sn 06 50 45.3, D=980 km, BCIS: H= 06 47 04, Premonitory shock of earthquake on February 5, 1966, USCGS: H= 06 47 02.8, 38.8 N, 21.7 E, h=47 km, Greece. M=4.4 SD 1.1 (CGS).
- 30 eZ PKP 11 24 47, USCGS: H= 11 05 02.3, 22.1 S, 170.0 E, h=46 km, Loyalty Islands region. M=5.3 SD 1.7 (CGS).
- 31 Z 02 46 (00), USCGS: H= 02 35 05.8, 27.9 N, 99.6 E, h=33 km, Yunnan Province, China. M=5.6 SD 0.9 (CGS).
- 31 Z Pn 04 33 (00), eZ 04 33 37, eZ Sn 04 34 38, D=940 km, USCGS: H= 04 30 56, 39.2 N, 21.9 E, h=40 km, Greece, M=4.7 SD 1.6 (CGS).
- 31 eZ PKP 08 53 27, USCGS: H= 08 33 42, 22.1 S, 170.0 E, h=35 km, Loyalty Islands region.
- 31 eZ Pn 09 57 06, eZ Sn 09 58 43, D=930 km.
- 31 eZ (Pn) 10 55 14, eZ Sn 10 55 50, D=930 km.
- 31 eZ P 14 15 10, USCGS: H= 14 01 25.4, 24.8 S, 64.4 W, h=43 km, Salta Province, Argentina, M=5.6 (BRK), 5.8 SD 1.1 (CGS).

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- 2 iZ+ Pg 02 25 46.1, iZ! Sg 02 26 03.8, D=145 km, BCIS: H= 02 25 25 (DECM), 46.2 N, 12.8 E, Venetian Alps, Italy.
- 2 iZ Pg 02 32 36.4, iZ Sg 02 32 54.1, D=145 km, BCIS: H=02 32 15, aftershock.
- 2 eZ PKP 05 53 49, USCGS: H= 05 34 01.8, 17.8 S, 173.2 W, h=33 km, Tonga Islands, M=5.2 SD 0.9 (CGS).
- 2 eZ P 09 28 28, USCGS: H= 09 20 07.5, 33.9 N, 73.0 E, h=26 km, West Pakistan. Felt at Rawalpindi and Havelian, M=5.3 SD 0.6 (CGS).
- 2 eiZ PKP 17 30 08, USCGS: H= 17 10 34.5, 21.6 S, 176.7 W, h=231 km, Fiji Islands region.
- 3 eZ P 06 01 52, eZ! PP 06 06 10, USCGS: H= 05 48 06.1, 0.1 N, 123.5 E, h=131 km, Northern Celebes. M=5.9 SD 1.3 (CGS).
- 3 eiZ P 12 11 22, USCGS: H= 11 58 35.3, 16.6 N, 120.0 E, h=69 km, Luzon, Philippine Islands. Felt at Baguio. M=5.8 SD 0.5 (CGS).
- 3 eiZ P 13 25 17, eZ S 13 26 44, D=83 km, USCGS: H= 13 23 29, 38.6 N, 14.8 E, h=254 km, Sicily. M=4.4 SD 0.9 (CGS). BCIS: H= 13 23 30 (DECM), 38.6 N, 14.8 E, h=250 km, Tyrrhenian Sea.
- 4 eZ PKP 04 22 33, USCGS: H= 04 02 46, 15.2 S, 173.4 W, h=33 km, Tonga Islands. M=5.0 SD 1.5 (CGS).
- 4 eZ PKP 05 24 15, USCGS: H= 05 04 24, 21.4 S, 174.1 W, h=26 km, Tonga Islands. M=4.6 SD 1.8 (CGS).
- 4 eZ P 08 41 16, eiZ 08 41 45, eiZ S 08 44 12, D=1780 km, BCIS: H= 08 38 02 (DECM), 34.2 N, 24.0 E, Mediterranean Sea, south of Crete, USCGS: H= 08 38 01.1, 34.3 N, 24.0 E, Crete, h=21 km, M=4.8 SD 1.6 (CGS).
- 4 iZ PKP 10 58 22.2, eiZ! PP 11 01 46, USCGS: H= 10 39 12.2, 15.9 S, 167.9 E, h=190 km, New Hebrides Islands. M=6.0 SD 1.0 (CGS).
- From February 4, 19^h 08^m to February 5, 08^h 28^m no Z records.
- 5 eNE P 02 03 45, iNE 02 05 34.2, eNE 02 05 52, eNE(S) 02 06 34, F: 02 15, BCIS: H= 02 01 49, 39.0 N, 21.9 E, Greece. Press: felt in the region of Trikala, Larissa, Thessalia, Magnesia, Phthiotis and Eurytania. 30 villages destroyed, 1 dead, 21 injured, 8500 persons homeless, 921 buildings completely destroyed, 397 inhabitable, 275 slightly damaged. Destroyed villages: Krentia, Furna, Klestos, Vrache, earthslide in Alestia. M=6.4 (Athens), 6 1/4 (Strasbourg), 5.3 (Mona), 6.1 (Pruhonice), 6.1 (Uppsala), 5.9 (Belograd). USCGS: H= 02 01 48.3, 39.2 N, 23.0 E, h=38 km, Greece. 1 killed, 50 injured, 8500 homeless. Towns of Alestia, Fournia, Klestos and Krentia destroyed. Felt in central Greece. M= 6 1/4 (PAS), 5 3/4-6 (BRK), 5.8 SD 0.9 (CGS).



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- 5 eZ Pn 09 49 53, eZ 09 50 19, eZ Sn 09 51 34, D=980 km.
- 5 eZ 12 42 04, eZ Sn 12 42 32, traces.
- 5 eZ P 15 23 48, iZ! 15 23 50.5, USCGS: H= 15 12 29.1, 26.1 N, 103.1 E, h=15 km, Yunnan Province, China. M=6.1 SD 1.3 (CGS).
- 5 eiZ+ P 16 27 52, iZ! 16 27 53.1, eZ PP 16 30 54, USCGS: H=16 16 01, 50.2 N, 155.1 E, h=98 km, Kurile Islands, M=5.8 SD 0.4 (CGS).
- 6 eZ Pn 13 26 46, eZ Sn 13 28 24, D=970 km, BCIS: H=13 24 37 (DECM), 39.2 N, 21.7 E, Greece. USCGS: H= 13 24 38.3, 39.0 N, 21.7 E, h=36 km, Greece. Felt in Eurytania area, M=4.2 SD 1.0 (CGS).
- 6 eZ 15 12 29, eZ Sn 15 14 17, traces.
- 6 eZ P 23 39 31, USCGS: H= 23 28 07.8, 60.4 N, 152.3 W, h=91 km, Southern Alaska, M=5.3 SD 0.5 (CGS).
- 7 eZ P 04 34 32, iZ! NE 04 34 40.4, iZ PP 04 36 12.5, eZNE S 04 41 19, USCGS: H= 04 26 13.9, 29.8 N, 69.7 E, h=33 km, West Pakistan; 12 dead, extensive damage at Barkhan and nearby villages. Felt at Bahawalpur, Fort Munro and Lahore. M=6 1/4-6 1/2 (PAS), 6 1/2-6 3/4 (PAL), 6.0 SD 1.4 (CGS).
- 7 eZ P 05 30 07, USCGS: H= 05 21 44.6, 30.0 N, 69.9 E, h=10 km, West Pakistan. Felt. M=5.4 SD 0.8 (CGS).
- 7 eZ P 05 38 38, USCGS: H=05 30 19.2, 30.0 N, 69.6 E, h=48 km, West Pakistan. Felt. M=5.3 SD 0.5 (CGS).
- 7 iZ Pn 09 30 19.7, iZ Pg 09 30 23.6, iZ Sn 09 30 48.9, iZ Sg 09 30 54.2, D=256 km, BCIS: H= 09 29 43 (DECM), 45.0 N, 17.3 E, Yugoslavia. Zagreb: felt in Banja luka.
- 7 eiZ P 23 14 55.6, iZ PP 23 16 35.6, eZ S 23 21 24, eNE 23 21 42, USCGS: H= 23 06 34.5, 30.2 N, 69.8 E, h=10 km, West Pakistan, felt in Loralai district, Bahawalpur, Fort Munro and Multan. M=6 1/4-6 1/2 (PAL), 5.8 SD 1.2 (CGS).
- 8 eZ 01 17 49, eZ(Sn) 01 18 14, traces., BCIS: H= 01 16 46 (DECM), 44 1/2 N, 10.0 E, Toscan Apennins, Italy.
- 8 eZ P 13 19 31, BCIS: H= 13 16 26, 36.6 N, 28.1 E, h is higher than normal, Mediterranean Sea, near Rhodes.
- 8 iZ!(Sg) 16 07 48.7.
- 8 eZ Pn 20 10 16, eZ Sn 20 12 12, iZ! 20 13 12.4, BCIS: H= 20 08 07 (DECM), 41.2 N, 25.2 E, Greece-Bulgaria border region. M=4.5 (Athens), 4 1/2 (Moscow). USCGS: H=20 08 06.3, 41.4 N, 25.1 E, h=33 km, Greece-Bulgaria border region. M=4.9 SD 1.1 (CGS).
- 9 eZ P 08 26 31, USCGS: H= 08 14 05, 2.0 N, 94.5 E, h=33 km, Off west coast of northern Sumatra. M=4.9 SD 0.5 (CGS).
- 10 eZ 05 10 21, eZ(Sn) 05 10 57.

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- 10 eZ Pn 13 23 49, eiZ Sn 13 25 34, D=1020 km, BCIS: H= 13 21 44 (DECM), 39.0 N, 21 3/4 E, Greece, USCGS: H= 13 21 46, 39.1 N, 21.8 E, h=33 km, Greece, M=4.5 SD 2.0 (CGS).
- 10 eZ P 14 34 56, eZ 14 38 31, eZ PP 14 39 21, USCGS: H=14 21 10.9, 20.8 N, 146.3 E, h=43 km, Mariana Islands region. M=6 1/2 (PAS), 6 1/2 (BRK), 6 1/4-6 1/2 (PAL), 6.2 SD 0.9 (CGS).
- 10 eZ PKP 15 18 02, USCGS: H= 14 58 04, 7.0 S, 129.3 E, h=10 km, Tonga Islands. M=5.1 SD 0.8 (CGS).
- 11 eZ Pn 05 42 33, eiZ Sn 05 44 17, D=1000 km.
- 11 eiZ Pn 06 51 43, eiZ Sn 06 53 18.0, D=920 km, BCIS: H= 06 49 43 (DECM), 39 1/2 N, 21 1/4 E, h=higher than normal. Greece.
- 11 iZ Pg 20 07 48.8, iZ Sg 20 07 50.9, D=14 km, weak.
- 12 eZ PKP 12 58 53, iZ! 12 58 59.6, USCGS: H= 12 41 53, 20.9 S, 178.7 W, h=586 km, Fiji Islands region. M=4.4 SD 1.2 (CGS).
- 12 eZ Pn 13 38 26, eiZ Sn 13 40 04, D=950 km, BCIS: H= 13 36 23 (DECM), 38.9 N, 21.3 E, h=50 km, Greece. M=4.5 (USCGS), USCGS: H=13 36 20, 38.9 N, 21.4 E, h=33 km, Greece. M=4.5 SD 1.5 (CGS).
- 12 eZ 14 36 52, iZ Sn 14 36 08.5, traces.
- 12 eZ 14 44 06, eZ 14 44 42, eiZ 14 45 49, traces.
- 12 iZ P 16 41 55.0, USCGS: H= 16 34 11.3, 36.6 N, 71.5 E, h=180 km, Afghanistan-USSR border region. M=4.9 SD 0.5 (CGS).
- 12 eZ 16 56 54, eZ (Sn) 16 58 06.
- 13 iZ+ P 05 05 50.0, eiZ PP 05 05 26.0, BCIS: H= 04 58 00, 50.0 N, 78.0 E, Kazakhstan, Semipalatinsk region. Probably nuclear explosion (underground). M=6.3 (Uppsala), M_P=6.7 (Moxa), USCGS: H= 04 57 57.7, 49.8 N, 78.1 E, h=0 km, Eastern Kazakh SSR, M=5 1/2-5 3/4 (BRK), 6.3 SD 0.9 (CGS).
- 13 eZ PP 06 54 37, USCGS: H= 06 35 55.7, 6.6 S, 132.6 E, h=12 km, Tanimbar Islands region. M=5 3/4-6 (PAL), 5.9 SD 0.9 (CGS).
- 13 Z 10 56 (00), eZ PP 10 58 43, USCGS: H= 10 44 41.0, 26.1 N, 103.2 E, h=33 km, Yunnan Province, China, M=5 3/4-6 (PAL), 5.7 SD 1.3 (CGS).
- 13 eZ (Sn) 13 49 52, traces.
- 13 eZ P 19 18 07, USCGS: H= 19 09 47.4, 29.8 N, 69.7 E, h=33 km, West Pakistan. Felt at Barkhan. M=5.1 SD 1.3 (CGS).
- 14 eiZ PKP 08 51 52, USCGS: H= 08 32 12.2, 22.3 S, 171.3 E, h=98 km, Loyalty Islands region. M=4.8 SD 1.1 (CGS).
- 14 eZ 10 40 01, iZ 10 40 37.5, traces.
- 14 eZ P 18 01 14, eZ S 18 04 30, BCIS: H= 17 57 51 (DECM),

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- 14 (cont.), 34.9 N, 27.1 E, h=50 km, Mediterranean Sea, east of Crete. USCGS: H= 17 57 50.0, 35.0 N, 27.2 E, h=46 km, Eastern Mediterranean Sea. M=5.0 SD 1.5 (CGS).
- 14 eZ Pn 20 19 03, eZ Sn 20 20 33.4, D=910 km, BCIS: H=20 16 59 (DECM), 38.9 N, 21.7 E, Greece, Aftershock of the seism on February 5, 1966 at 02 h 01 m.
- 15 eZ(P) 01 40 54, obscured by microseisms, USCGS: H= 01 28 17, 27.9 N, 128.9 E, h=33 km, Ryukyu Islands. M=4.7 SD 0.7 (CGS).
- 15 eiZ (PKP) 10 16 31, obscured by microseisms. USCGS: H= 09 56 29.8, 22.7 S, 176.2 W, h=33 km, South of Fiji Islands. M=5.0 SD 1.5 (CGS).
- 15 eZ PKP 22 52 54, USCGS: H= 22 34 05.4, 26.5 S, 178.2 E, h=593 km, South of Fiji Islands. M=5.6 SD 1.1 (CGS).
- 16 eZ 02 45 12, iZ (Sn) 02 46 13.6, traces.
- 16 Z PKP 03 38 (00), iZ! 03 38 01.2, eZ PP 03 41 15, eNE PP 03 41 16, USCGS: H= 03 18 27.2, 17.7 S, 167.9 E, h=31 km, New Hebrides Islands. Felt at Luganville, Norsup and Port Vila. M=6 1/2 (PAS), 6 1/2 (BRK), 6 1/2-6 3/4 (PAL), 6.5 SD 0.7 (CGS).
- 16 eZ PKP 05 40 54, USCGS: H= 05 21 19, 17.7 S, 167.9 E, h=16 km, New Hebrides Islands. M=4.8 SD 1.4 (CGS).
- 16 eZ 09 06 20, traces.
- 16 eZ P or PKP 11 05 08.
- 16 eZ PKP 23 56 57, USCGS: H= 23 37 05, 18.1 S, 173.8 W, h=33 km, Tonga Islands. M=4.2-4.6 (BRK), 5.2 SD 1.3 (CGS).
- 17 eZ Pn 07 39 53, eZ 07 40 22, eZ(Sn) 07 41 30, (D=930 km).
- 17 eZ(Pn) 07 50 08, eiZ 07 50 28.0, weak.
- 17 eZ Pn 10 43 31, eiZ (Sn) 10 45 11.8, (D=970 km), USCGS: 10 41 27, 39.1 N, 22.2 E, h=33 km, Greece, M=4.3 SD 1.3 (CGS).
- 17 eZ P 12 01 32, eZ PP 12 05 30, USCGS: H= 11 48 00.8, 32.2 S, 78.9 E, h=33 km, Mid-Indian Rise. M=6 1/4 (PAS), 6.2-6.6 (BRK), 6 1/2 (PAL), 6.4 SD 0.9 (CGS).
- 17 eZ 12 17 26, iZ 12 17 29.9, Z! Sn 12 18 (00), BCIS: H=12 16 57 (DECM), 44.9 N, 10.9 E, Northern Italy.
- 18 eZ 06 14 31, eiZ Sn 06 14 46.4, weak.
- 19 eZ (Pg) 09 36 49, eiZ Sg 09 37 00.4, (D=90 km), weak.
- 19 eZ P or PKP 10 24 38, eZ 10 26 17
- 19 eZ P 12 58 41, eiZ 12 59 06.7, USCGS: H= 12 50 42.1, 35.3 N, 70.9 E, h=59 km, Hindu Kush region. Felt at Peshawar. M=5.1 SD 1.2 (CGS).
- 20 eZ PKP 06 30 40, USCGS: H= 06 11 54.4, 17.9 S, 178.5 W, h=583 km, Fiji Islands region.
- 20 eZ 08 49 09, eZ 08 50 47, iZ(Sn) 08 51 01.2

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- 20 eZ 09 11 43, eZ 09 12 26, eiZ (Sn) 09 12 52.
- 21 eiZ P or PKP 13 46 12
- 21 eZ (Pn) 20 32 09, eiZ (Sn) 20 33 19.5, (D=670 km).
BCIS: H= 20 30 42 (DECM), 42.1 N, 21.7 E, Yugoslavia.
Skopje: felt V-VI⁰ MCS at Skopje.
- 22 eZ PKP 05 21 35, USCGS: H= 05 02 37.2, 5.4 S, 151.5 E,
h=28 km, New Britain region. Felt widely. M=6 3/4 (PAS),
6 3/4-7 (BRK), 6 3/4-7 (PAL), 6.2 SD 1.1 (CGS).
- 22 eZ PKP 18 37 32, USCGS: H= 18 18 36.4, 5.6 S, 151.5 E,
h=58 km, New Britain region. M=5.5 SD 0.8 (CGS).
- 24 eZ 15 50 09, weak traces.
- 24 eZ 18 04 29, eZ (Sn) 18 05 27, traces.
- 24 eZ P 21 31 27, USCGS: H= 21 21 32.2, 1.6 N, 29.4 W, h=
33 km, Central Mid-Atlantic Ridge. M=4.7 SD 1.1 (CGS).
- 25 eZ 12 38 31, eZ (Sn) 12 39 16, traces.
- 25 eZ PKP 23 10 33, USCGS: H= 22 50 47.1, 15.1 S, 173.2 W,
h=33 km, Tonga Islands. M=5.5 SD 1.4 (CGS).
- 26 eZ P 00 45 56, USCGS: H= 00 33 50.7, 52.4 N, 173.6 E,
h=51 km, Near Islands, Aleutian Islands. M=5.3 SD 0.8
(CGS).
- 26 eZ 02 43 04, eZ 02 43 20, traces.
- 26 eZ 10 26 57, eZ 10 27 56, traces.
- 26 eiZ PKP 11 41 33, USCGS: H= 11 21 57, 15.4 S, 173.4 W,
h=127 km, Tonga Islands. M=4.9 SD 0.5 (CGS).
- 27 eiZ Pg 09 56 54, eZ (Sg) 09 57 09, (D=120 km).
- 27 eZ Pn 14 45 50, eZ 14 46 37, eZ 14 47 30, weak.
- 27 eZ (P) 19 41 27, eZ 19 43 06, weak.
- 28 eiZ- P 02 13 49.8, eZ pP 02 14 42, eZ PP 02 16 24,
USCGS: H= 02 02 13.6, 43.7 N, 139.6 E, h=225 km, Eastern
Sea of Japan. M=5.5 SD 0.7 (CGS).
- 28 eZ+ P 13 48 13, USCGS: H= 13 35 39.0, 29.2 N, 130.1 E,
h=33 km, Ryukyu Islands. M=5.5 SD 0.8 (CGS).
- 28 eiZ+ PKP 18 12 56, USCGS: H= 17 53 19.8, 21.7 S, 170.5
E, h=106 km, Loyalty Islands region.

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- 1 eiZ Pg 13 53 57, eiZ Sg 13 54 13, D=133 km.
- 2 eZ P 02 42 02, BCIS: H=02 37 05 (DECM), 43.2 N, 45.9 E,
Caucasus. M=4.9 (Moxa), 4.6 (Pruhonice), USCGS: H= 02 37
02.3, 43.0 N, 45.8 E, h=24 km, Eastern Caucasus, slight
damage near Grozny. M=5.3 SD 0.9 (CGS).
- 2 eZ 15 59 22, iZ 15 59 42.7, weak, obscured by microseisms.



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- 2 eZ 22 41 20, eiZ 22 42 14, obscured by microseisms.
- 3 eiZ+ P 03 37 32.0, USCGS: H=03 25 28.0, 48.3 N, 154.3
E, h=45 km, Kurile Islands. M=5.9 SD 0.8 (CGS).
- 3 eZ 10 27 02, eZ 10 27 23, traces.
- 3 eZ (Sn) 17 08 13
- 4 iZ PKP 02 00 37.0, USCGS: H= 01 41 46, 17.9 S, 178.2
W, h=532 km, Fiji Islands region. M=3.7 SD 1.3 (CGS).
- 4 eZ (Pn) 06 04 47, eZ 06 04 06, eiZ (Sn) 06 04 44.
- 5 eZ PKP₁ 00 18 57, eZ 00 19 10, eZ PKP₂ 00 19 57,
USCGS: H= 23 58 55.9, 38.8 S, 177.9 E, h=27 km, North
Island, New Zealand, slight damage at Gisborne. M=6.1
SD 1.9 (CGS).
- 5 eZ (Pg) 01 03 50, eZ Sg 01 04 13, (D=200 km).
- 5 eZ (Pn) 12 49 40, eZ Sn 12 50 33 (D=490 km), weak.
- 5 eZ PKP 16 04 47, USCGS: H= 15 45 05, 17.6 S, 176.2 E,
h=33 km, Fiji Islands region. M=5.4 SD 1.3 (CGS).
- 5 eZ P 21 04 10, USCGS: H=20 54 45.7, 0.0, 18.0 W, h=33
km, North of Ascension Island. M=5.2 SD 1.0 (CGS).
- 6 eiZ P 02 20 05, USCGS: H= 02 10 56.8, 31.6 N, 80.5 E,
h=35 km, Tibet, M=5.4 SD 0.5 (CGS).
- 6 eiZ! P 02 25 03, iZ! 02 25 10.3, eZ PP 02 28 19,
USCGS: H= 02 15 56.7, 31.6 N, 80.5 E, h=44 km, Tibet.
M=6 1/2 (PAS), 6.5-7 (BRK), 6 1/2-6 3/4 (PAL), 6.1 SD
0.5 (CGS).
- 7 eiZ P 01 20 51, iZ! 01 21 07.8, eZ S 01 24 53, BCIS: H=
01 16 11 (DECM), 39.3 N, 41.6 E, Eastern Turkey. Important
damage in Varto (Mus) and Hinis, Erzerum. 14 killed,
many injured, 70 homes destroyed and 230 others seve-
rely damaged. Strongly felt in Eastern Anatolia
(Istanbul). M=5.7 (Ksara), 5.6 (Pruhonice), 5.5 (Collm),
5.4 (Moxa), 5.3 (Motta), USCGS: H= 01 16 05.8, 39.1 N,
41.7 E, h=13 km, Turkey. 15 dead, many injured, 1000
homes destroyed at Bayir, Hinis and Varto. M=6 (PAS),
5.5 SD 0.8 (CGS).
- 7 eiZ PKP 02 54 17, USCGS: H= 02 35 28, 20.5 S, 178.4 W,
h=601 km, Fiji Islands region. M=4.9 SD 0.8 (CGS).
- 7 Z P 17 17 (00), USCGS: H= 17 12 00, 42.9 N, 46.0 E,
h=33 km, Eastern Caucasus. M=4.6 SD 1.8 (CGS).
- 7 eZ P 20 49 51, USCGS: H= 20 39 12.7, 14.2 S, 14.5 W,
h=33 km, South Atlantic Ridge. M=4.6 SD 1.5 (CGS).
- 7 eiZ Pg 21 22 07, eiZ Sg 21 22 22.7, D=122 km, BCIS: H=
21 21 41, 47.1 N, 14.4 E, (Wien), Austria. Felt IV⁰ MCS
in Scheifling and neighbourhood, Styria.
- 7 eZ P 21 40 23, eZ PP 21 43 20, USCGS: H= 21 29 17.0,
37.2 N, 114.8 E, h=33 km, Northeastern China. Moderate
to heavy damage and injuries in Province of Hopen.
Widely felt. M=6 3/4 (PAS), 6.4 (BRK), 7-7 1/4 (PAL),
5.8 SD 2.0 (CGS).

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- 7 eiZ- P 22 46 50, USCGS: H= 22 36 03, 29.2 N, 98.6 E, h=17 km, Tibet, M=5.2 SD 0.6 (CGS).
- 8 Z PKP 00 38 (00), USCGS: H= 00 18 09.8, 18.9 S, 173.3 W, h=33 km, Tonga Islands. M=5.3 SD 1.6 (CGS).
- 8 Z PKP 01 33 (00), iZ 01 33 07.5, eZ PP 01 36 06, USCGS: H=01 13 42.3, 13.9 S, 166.6 E, h=37 km, New Hebrides Islands. M=6 (PAS), 5.9-6.3 (BRK), 6 1/4-6 1/2 (PAL), 5.8 SD 1.6 (CGS).
- 8 eZ P 05 55 06, eZ PP 05 59 26, USCGS: H= 05 41 04.5, 1.9 N, 126.4 E, h=33 km, Molucca Passage, M=4.7-5.2 (BRK), 5.9 SD 1.6 (CGS).
- 8 eZ Pn 18 53 51, iZ 18 54 05.0, iZ Sn 18 55 32.0, D=980 km, BCIS: H= 18 51 49 (DECM), 38.9 N, 21.4 E, h=60 km, Greece. M=4.2 (Athens). USCGS: H= 18 51 47.2, 38.9 N, 21.3 E, h=48 km, Greece, M=5.1 SD 1.8 (CGS).
- 8 eZ P 20 59 50, eZ PP 21 03 47, USCGS: H= 20 46 12.0, 20.0 S, 68.9 W, h=122 km, Chile-Bolivia border region. Felt at Copiago and Iquique. M=5.9 SD 1.6 (CGS).
- 9 eZ 02 21 55, eZ 02 22 05, weak.
- 9 eZ Pg 11 13 24, iZ Sg 11 13 36.0, D=144 km.
- 9 eZ P 23 27 12, USCGS: H= 23 13 52, 7.4 S, 108.4 E, h=148 km, Java, M=5.6 SD 0.6 (CGS).
- 10 eZ(Pn) 02 35 21, Z (Sn) 02 37 (00), weak.
- 10 eiZ P 04 38 21, eZ pP 04 39 55, USCGS: H= 04 26 19.6, 32.2 N, 137.5 E, h=382 km, South of Honshu, Japan. Felt in Tokyo. M=5.5-5.9 (BRK), 5.6 SD 0.7 (CGS).
- 10 eZ(S) 11 23 27, BCIS: H= 11 18 56, 39.3 N, 41.6 E, Eastern Turkey. Istanbul: felt in Varto (Mus) and Hınıs (Erzerum). Aftershock of the seism of March 7, 1966 at 01^h 16^m.
- 10 iZ PKP 12 34 37.4, eZ pPKP 12 36 00, USCGS: H= 12 15 19.4, 19.3 S, 177.0 W, h=320 km, Fiji Islands region. M=5.5 SD 0.7 (CGS).
- 11 iZ Pn 12 34 20.5, iZ Sn 12 34 43.4, D=200 km.
- 11 eZ P 20 04 57, eZ S 20 07 27, D=1550 km, BCIS: H= 20 01 46 (DECM), 34.4 N, 24.3 E, depth normal, Mediterranean Sea, south of Crete. USCGS: H= 20 01 43.8, 34.4 N, 24.4 E, Crete, h=226 km, M=5.1 SD 1.0 (CGS).
- 11 eZ 20 21 24, Z (S) 20 23 (00).
- 11 eZ P 23 24 26, USCGS: H= 23 15 42.3, 28.2 N, 43.9 W, h=5.0 km, North Atlantic Ridge. M=5.0 SD 0.6 (CGS).
- 11 eZ P 23 45 25, USCGS: H= 23 36 42.7, 28.5 N, 44.0 W, h=33 km, North Atlantic Ridge. M=5.1 SD 0.5 (CGS).
- 12 eZ(Pn) 06 06 16, eZ 06 06 47, traces.
- 12 eZ Pg 07 19 27, iZ Sg 07 19 30.8, D=29 km, near, not felt.
- 12 iZ+ P 16 43 49.9, eiNE 16 43 51, iZ PP 16 47 18, 8,



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- 12 (cont.) eZ (S) 16 54 03, eNE S 16 54 10, eNE M 17 15 -, USCGS: H= 16 31 21.8, 24.1 N, 122.6 E, h=63 km, Taiwan region. 7 killed, several injured and major damage on Taiwan and Okinawa. M=7 1/2-7 3/4 (PAS), 7-7 1/2 (BRK), 7 3/4-8 (PAL), 6.7 SD 1.5 (CGS).
- 12 eZ P 18 12 04, USCGS: H= 17 59 39, 24.4 N, 122.8 E, h=83 km, Taiwan region. M=5.7 SD 0.5 (CGS).
- 12 eiZ P 19 35 31, USCGS: H= 19 23 02, 24.0 N, 122.9 E, h=63 km, Taiwan region. M=4.9 SD 0.9 (CGS).
- 13 eZ 12 13 07, eZ (Sn) 12 13 31, traces.
- 13 eiZ PKP 19 00 33, USCGS: H= 18 40 40.7, 20.9 S, 175.4 W, h=65 km, Tonga Islands. M=5.2 SD 0.6 (CGS).
- 13 iZ P 15 06 19.3, USCGS: H= 14 53 47.6, 23.8 N, 122.7 E, h=51 km, Taiwan region. M=5.0 SD 1.5 (CGS).
- 13 eZ P 19 14 21, USCGS: H= 19 01 50.2, 24.1 N, 123.2 E, h=47 km, Southwestern Ryukyu Islands. M=5.4 SD 0.9 (CGS).
- 13 Z Pn 19 38 (00), eZ (Sn) 19 39 49, D=1040 km, USCGS: H= 19 35 51.5, 38.9 N, 21.6 E, h=11 km, Greece. M=4.3 SD 0.6 (CGS).
- From March 13 at 23^h to March 14 at 09^h 03^m no time marks.
- 14 eZ Pn 14 10 43, iZ Sn 14 12 36.0, D=1080 km, BCIS: H= 14 08 40 (DECM), 39.6 N, 22.2 E, Greece, M=4.8 (Athens) USCGS: H= 14 08 40.7, 39.2 N, 21.4 E, h=48 km, Greece, M=4.4 SD 1.8 (CGS).
- 15 eZ (Pn) 08 34 42, eZ Sn 08 36 36, (D=1080 km).
- 15 eZ 10 48 20, eZ Sn 10 50 05.
- 15 eiZ+ P 11 26 28, USCGS: H= 11 14 00.9, 24.2 N, 122.7 E, h=65 km, Taiwan region. M=5.2 SD 0.8 (CGS).
- 15 eZ (Pn) 12 20 43, eZ 12 21 34, eZ Sn 12 22 22, (D=960 km).
- 15 eiZ+ P 23 44 18, USCGS: H= 23 31 46.1, 24.4 N, 122.7 E, h=22 km, Taiwan region. M=5.6 SD 0.9 (CGS).
- 16 eZ PKP 00 03 07, USCGS: H= 23 44 27.6, 18.0 S, 178.2 W, h=606 km, Fiji Islands region. M=4.5 SD 0.7 (CGS).
- 16 eZ (P) 10 44 05, USCGS: H= 10 38 29, 34.4 N, 46.0 E, h=33 km, Western Iran. M=4.2 SD 1.4 (CGS).
- 16 eZ PKP 12 32 26, eZ 12 32 57, USCGS: H= 12 13 02.4, 21.2 S, 174.3 W, h=66 km, Tonga Islands. M=5.4 SD 0.8 (CGS).
- 16 eiZ Pn 13 27 58.5, iZ! 13 28 01.7, iZ Sn 13 28 28.3, iZ Sg 13 28 36.1, D=250 km, BCIS: H= 13 27 16, 47.4 N, 11.5 E, Wien: 47.3 N, 11.4 E, Austria. M=4.0 (Bensberg), Wien: felt V^o MCS in Innsbruck (Tyrol).
- 16 eZ Pn 15 51 43, eZ (Sg) 15 52 20, BCIS: H= 15 51 00, Tyrol, aftershock.

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- 17 eZ Pg 07 57 49, iZ Sg 07 57 02.7, (D=110 km).
- 17 eZ 14 04 32, iZ (Sg) 14 04 46.3, traces.
- 17 eZ 14 33 05, iZ 14 33 13.1, traces.
- 17 eZ 14 58 17, iZ (Sg) 14 58 21.1, traces.
- 17 eZ!- PKP₁ 16 09 12, iZ!PKP₂ 16 09 29.9, eiZ pPKP 16 11 47.0, eZ PP 16 13 12, USCGS: H= 15 50 32.2, 21.1 S, 179.2 W, h=626 km, Fiji Islands region. M=6 3/4 (PAS), 6.2 SD 0.9 (CGS).
- 18 eiZ Pn 03 00 03, iZ 03 00 22.5, eZ Sn 03 01 16, D=690 km.
- 18 eZ Pn 15 06 09, iZ(Pg) 15 06 18.2, iZ 15 06 37, eZ (Sg) 15 06 59.
- 18 iZ PKP 21 05 54.7, USCGS: H= 20 46 19.4, 20.7 S, 169.7 E, h=78 km, New Hebrides Islands. M=5.1 SD 0.6 (CGS).
- 19 eZ (Pn) 07 16 22, eZ 07 18 08, obscured by microseisms.
- 20 eZ- P 01 51 22, eE P 01 51 23, iZNE PP 01 53 15.3, eN S 01 58 28, eZ S 01 58 31, eE SS 02 01 43.8, BCIS: H= 01 42 54 (DECM), 1.1 N, 30.2 E, Western African Rift, southwest of Albert lake. Important damage and victims in Bwamba (Uganda); 12 dead in Bundibugyo; damage on buildings. M=7.4 (Moxa), 7-7 1/4 (Strasbourg), 7.0 (Uppsala), 6 3/4-7 (PAS), 6.9 (Pruhonice), M_L=6.7 (Collm), M_P=6.6 (Collm), M_P=6.3 (Moxa). Press: damage in Fort Portal, 79 killed and several dozens injured. USCGS: H= 01 42 49.9, 0.6 N, 30.2 E, h=36 km, More than 100 dead. Extensive damage to buildings at Fort Portal nearby areas, felt in western Uganda. M=6 3/4-7 (PAS), 6.4-6.6 (BRK), 7-7 1/4 (PAL), 6.1 SD 1.4 (CGS). D=5280 km.
- 20 iZ+ P 05 57 49.8, eiZ PP 05 59 24.1, BCIS: H= 05 50 00, 50.0 N, 78.0 E, Kazakhstan, Semipalatinsk region. Probably underground explosion. M=6.4 (Uppsala), M_P=6.2 (Moxa), M=5.8 (Bensberg), M_C=5.1 (Moxa).
- 20 iZ PKP 08 07 24.7, iZ! PKJKP 08 07 29.4, USCGS: H= 07 47 50.2, 17.0 S, 174.3 W, h=117 km, Tonga Islands. M=5.7 (CGS).
- 20 eiZ PKP 09 24 19.4, obscured by microseisms, eiZ 09 24 22.5, eiZ 09 24 40.3, USCGS: H= 09 04 31.8, 21.0 S, 174.5 W, h=95 km, Tonga Islands. M=5.2 (CGS).
- 21 eiZ+ P 00 15 29.8, weak trace, USCGS: H= 00 02 55.6, 23.8 N, 122.9 E, h=33 km, Formosa. M=4.9 (CGS).
- 21 eiZ (P) 14 34 47.9, eiZ 14 36 22.8, weak trace.
- 21 eZ Pn 21 39 56, iZ 21 40 04.6, iZ Pg 21 40 07.1, iZ Sn 21 40 36.8, iZ Sg 21 40 55.1, D=380 km, Felt V^o MCS in Sarajevo. BCIS: H= 21 39 01, 43.4 N, 17.7 E, USCGS: h=21 km, Bosnia-Herzegovina region. Felt 5^o MCS at Sarajevo (Ljubljana).
- 22 eZ Pa 02 44 36, iZ 02 44 45.8, iZ Pg 02 44 49.0, iZ Sn



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- 22 (cont.) 02 45 17.1, iZ Sg 02 45 35.3, D=380 km, BCIS: H=02 43 41, 43.4 N, 17.7 E, Bosnia-Herzegovina.
- 22 iZ P or PKP 05 14 33.7, weak trace.
- 22 iZ Pn 05 27 20.3 (very weak), iZ Pg 05 27 33.0, iZ Sg 05 28 20.0, D=380 km, aftershock, Bosnia-Herzegovina, BCIS: H= 05 26, 4, 43.4 N, 17.7 E.
- 22 eZ Pn 05 49 31, iZ 05 49 37.8, iZ Pg 05 49 41.1, iZ Sn 05 50 14.2, iZ Sg 05 50 29.0, D=380 km, BCIS: H= 05 48 34, 43.4 N, 17.7 E, Bosnia-Herzegovina.
- 22 eiZ P 08 22 50.2, eiZ 08 22 54.9, USCGS: H=08 11 33.7, 37.5 N, 115.0 E, h=11 km, China. M=6.0 (CGS).
- 22 iZ P 08 30 46.8, iZ! 08 30 48.9, eZ (PP) 08 33 19, eNE MR 08 59 -USCGS: H= 08 19 33.8, 37.5 N, 115.2 E, h=33 km, China. M=6.0 (CGS), 6 3/4-7 (PAS), 6 1/2-6 3/4 (BRK), 7 1/4-7 1/2 (PAL), D=about 7950 km.
- 22 (ei)Z P 08 46 12.6, USCGS: H= 08 45 52, 37.3 N, 115.1 E, h=40 km, China. M=5.8 (CGS).
- 22 eiZ P 11 19 49.9, USCGS: H= 11 08 40, 38.1 N, 115.0 E, h=33 km, China. M=5.3 (CGS).
- 22 iZ Pn 13 02 37.0, iZ Sg 13 03 34.8, D=380 km.
- 22 iZ Pn 13 17 04.2, iZ Pg 13 17 14.8, Z Sg 13 18 (00), D=about 365 km.
- 22 eiZ Pn 13 25 17.5, very weak, iZ(Sg) 13 26 07.8, (D=about 335 km).
- 23 iZ+ P 00 17 06.0, iZ pP 00 17 21.8, eiZ PP 00 20 19.2, USCGS: H= 00 04 34.7, 23.8 N, 122.8 E, h=51 km, Formosa, M=6.3 (CGS), D=9440 km.
- 23 eiZ (Pn) 20 28 05.5, very weak, eiZ Pg 20 28 18.0, eiZ Sn 20 28 44.9, iZ Sg 20 29 04.7, D=about 370 km, weak.
- 23 eZ(P) 22 09 55, weak traces, obscured by microseisms. USCGS: H= 21 57 09.6, 07.3 S, 74.8 W, h=137 km, Peru-Brazil border region. M=5.3 (CGS).
- 24 eiZ PKP 08 47 13.7, USCGS: H= 08 27 51.3, 13.7 S, 166.8 E, h=43 km, New Hebrides. M=5.2 (CGS).
- 25 iZ Pn 21 01 37.4, iZ Pg 21 01 39.3, iZ(Sn) 21 01 59.8, iZ Sg 21 02 02.3, D=190 km, Zagreb: e-Pg 21 01 21.8, iSg 21 01 33.5.
- 26 eZ P 15 30 17, obscured by microseisms, USCGS: H= 15 19 03.2, 37.6 N, 115.2 E, h=33 km, China. M=5.5 (CGS).
- 26 eiZ Pn 20 19 39.3, eiZ Sn 20 21 24.3, very weak, BCIS: H= 20 17 33, 38.9 N, 21.9 E, Greece. USCGS: H= 20 17 33, 39.1 N, 21.7 E, Greece, h=33 km, M=4.4 (CGS), D=1000 km.
- 27 eiZ P 01 49 32.3, USCGS: H= 01 40 59, 14.5 N, 56.7 E, h=33 km, Arabian Sea.
- 27 iZ+ P 01 51 39.6, BCIS: H= 01 49 08, 37.5 N, 23.2 E, Eastern coast of Greece, USCGS: H=179 km, M=4.2 (CGS).
- 27 iZ P or PKP 17 31 24.9, weak trace.

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- 27 iZ+ P 19 06 33.8, USCGS: H= 18 53 41.3, 8.9 N, 83.4 W, Costa Rica. M=5.5 - 6 (BRK), 5 1/4-5 1/2 (PAL), M=5.6 SD 0.8 (CGS).
- 28 iZ Pn 04 07 04.2, eiZ (Sn) 04 08 28.4, (D=about 800 km).
- 28 iZ P 15 42 48.9, obscured by microseisms, USCGS: H= 15 29 18.4, 3.9 S, 89.0 W, h=19 km, border Peru-Ecuador. M=5.1 (CGS).
- 30 eiZ- P 04 26 58.9, iZ 04 27 05.0, USCBS: H= 04 18 38.1, 21.8 N, 62.2 E, h=33 km, Arabian Sea, M=5.6 (CGS).
- 31 eiZ+ PKP 05 25 24.9, iZ 05 25 39.5, USCGS: H= 05 05 54.7, 17.3 S, 167.8 E, h=34 km, Near Hebrides Islands. M=5.4 (CGS).
- 31 iZ- Pg 15 03 49.0, iZ 15 03 51.0, iZ Sg 15 03 53.2, D=about 30 km, not felt.
- 31 eiZ+ P 23 45 38.3, iZ pP 23 46 23.2, iZ sP 23 46 44.7, ei ScP 23 50 55.8, USCGS: H= 23 38 00.5, 36.4 N, 70.8 E, h=200 km, Hindu-Kush. M=5.6 (CGS).

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