

25 MAR 1968

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

VII—IX 1966

Ljubljana 1967

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

1966

1966

PRELIMINARY SEISMOLOGICAL BULLETIN
from July 1 to September 30, 1966

Station: Ljubljana (LJU) - Coordinates: $46^{\circ} 01.8, 8$ East,
 $14^{\circ} 32.0$ N Long.
Geographic direction: $\alpha = +87.83$, $\beta = -17.45$, $\gamma = +71.75$
 $\delta = -$, $\epsilon = -$, $\zeta = -$

Height above mean sea level: 345 m;
Lithologic foundation: sandstone (carbon);

Instruments:

Miller-Stuttgart vertical component Z, with galvanometer
recording; $\gamma = 1.5$ sec, $\beta = 1.5$ sec, $\alpha = 0.1$ sec, $\gamma = 0.1$ sec, $\beta = 0.1$ sec, $\alpha = 0.1$ sec.

PRELIMINARY SEISMOLOGICAL

BULLETIN

(July - September 1966)

Miller-Stuttgart, vertical component Z, with galvanometer
recording; $\gamma = 1.5$ sec, $\beta = 1.5$ sec, $\alpha = 0.1$ sec, $\gamma = 0.1$ sec, $\beta = 0.1$ sec, $\alpha = 0.1$ sec.
Registration velocity: 50 mm/min.

Note: Periods of seismic waves are given in seconds, the
amplitude in microns; sign + means compression, movement of
ground towards north or east, sign - means dilatation or move-
ment towards south or west. All times are given in GMT.
Time signals are received one or two times daily and are
registered on a chronograph. Whenever possible time readings
up to one tenth of a second are given. Macroseismic data
refer to Mercalli-Cancani-Rieberg scale (MCS), macroseismic
rays are given in kilometers. Abbreviation DSC means: Deter-
mination was made by electronic computer.

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1. ± 2.1 SEP 04 24 22, USCGS: West of 10, 15.2 S, 174.1 W, h=11
km, Tonga Islands, M=2.5 (CBS).
4. ± 1.5 SEP 05 05 00, USCGS: West of 10, 15.2 S, 174.1 W, h=11
km, Tonga Islands, M=2.5 (CBS).
4. ± 1.5 SEP 12 20 25, USCGS: West of 10, 15.2 S, 174.1 W, h=11
km, Tonga Islands, M=2.5 (CBS). Atlantic Ocean, W, ± 1.5 (Strasbourg),
3.0, 1.2 (Hawaii), USCGS: No 12 12 22.1, 17.387, 24.05, h=11 km,
Azores Islands region, M= 3.5-2.0 I.0 (CBS).
4. ± 2.0 SEP 14 01 07, USCGS: West of 10, 15.2 S, 174.1 W, h=11
km, Tonga Islands, M=2.5 (CBS). West of 10, 15.2 S, 174.1 W, h=11
km, Tonga Islands, M=2.5 (CBS).

University of Ljubljana
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1966

PRELIMINARY SEISMOLOGICAL BULLETIN
 from July 1 to September 30, 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 fundation: sandston (carbon);

Instruments:

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

Constants (31.1.1966):

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, $D_1=D_2=1$, $V_{max}=10150x$,
 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 move-
 ment towards south or west. All times are given in GMT.
 Time signals are received one or two times daily and are
 registered on a chronograph. Wherever possible time readings
 up to one tenth of a second are given. Macroseismic data
 refer to Mercalli-Cancani -Sieberg scale (MCS), macroseismic
 rays are given in kilometers. Abbreviation DECM means: Deter-
 mination was made by electronic computer.

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- 3 eZ PKP 04 29 21, USCGS: H=04 09 30, $21.1 S$, $174.2 W$, $h=33$
 km. Tonga Islands. $M=5SD 0.9$ (CGS).
- 4 1Z+ P orPKP 03 07 51.4.
- 4 e1Z- P 12 21 37, eZ S 12 26 37, $D=3300$ km, BCIS: H= 1215 2
 25(DECM), $37.5N$, $24.4W$, Atlantic Ocean, $M_L=5 \frac{3}{4}$ (Strasbourg),
 $5.4, 5.2$ (Moxa), USCGS: H= 12 15 28.1, $37.5N$, $24.8W$, $h=33$ km,
 Azores Islands region, $M= 5.5 SD 1.0$ (EGS).
- 4 eZNE P 18 45 57, eZ PP 18 49 17, eNE S 18 56 30, USCGS:H=
 $18 33 35.7$, $51.7N$, $179.9E$, $h=13$ km, Rat Islands. Aleutian
 Islands. Felt on ADak. $M=6 \frac{3}{4}- 7$ (PAS), $6 - 6.5$ (BRK), 6.2
 SD 1.0 (CGS).

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- 5 eiZ P 02 28 34, BCIS: H= 02 22 22, Atlantic Ocean, after-shock. M= 5 1/4 (Strasbourg).
- 5 eZ P or PKP₁ 02 34 01, iZ 02 34 05.2.
- 5 eZ PKP₁ 03 41 59, iZ! PKP₂ 03 42 02.5, iZ 03 43 03.8, USCGS: H= 03 22 45.2, 15.2S, 174.9W, h= 252 km, Tonga Islands, M= 5.1 SD 0.7 (CGS).
- 5 eZ P 05 15 15, BCIS: H= 05 09 03, Atlantic Ocean, after-shock.
- 5 iZ! Pg 14 22 46.8, iZ!! Sg 14 22 54.6, D= 47 km.
- 5 eZ 17 59 50, eZ (Sn) 18 00 26.
- 6 iZ Pn 04 25 58.6, iZ 04 26 11.0, iZ! Sn 04 26 59.0, BCIS: H= 04 24 42, (DECM), 40.9N, 15.6E, h= 50 km, Central Italy. Felt in Basilicata. USCGS: H= 04 24 40.5, 40.9N, 15.7E, h= 25 km, Southern Italy, M= 4.3 SD 1.5 (CGS).
- 7 eiZ P or PKP 16 26 50.
- 8 iZ Pg 10 28 43.8, iZ Sg 10 28 46.6, D= 22 km.
- 9 iZ Pn 10 05 46.6, iZ 10 05 53.0, iZ 10 06 41.9, BCIS: H= 10 04 32 (DECM), 43 1/4N, 18 3/4E, Yugoslavia.
- 9 iZ Pg 18 47 25.1, iZ 18 47 29.7, D= 22 km.
- 10 eZ PKP 01 40 53, USCGS: H= 01 22 02.9, 17.4S, 178.7W, h= 532 km, Fiji Islands region. M= 5.8 SD 0.8 (CGS).
- 10 eZ PKP 10 20 36, USCGS: H= 10 00 39.1, 30.5S, 177.8W, h= 40 km, Kermadec Islands region, M= 5-5.4 (BRK), 5.8 SD 0.8 (CGS).
- 10 iZ Pg 13 30 29.0, iZ Sg 13 30 39.0, D= 82 km, BCIS: H= 13 30 15 (DECM), 46.4N, 13.4E, Julian Alps.
- 10 eZ P 16 25 22, iZ 16 25 32.1, eZ 16 28 29, D= 8700 km. USCGS: H= 16 12 41.5, 24.2N, 125.2E, h= 28 km, Southwestern Ryukyu Islands. M= 4.5-4.9 (BRK), 5.9 SD 0.9 (CGS).
- 10 eZ P 22 16 59, USCGS: H= 22 04 24.4, 24.8N, 125.3E, h= 58 km, Southwestern Ryukyu Islands. M = 5.4 SD 1.0 (CGS).
- 11 eZ (P) 04 07 58, eZ 04 09 05.
- 11 eZ 04 56 11, eZ (Sn) 04 57 42.
- 11 eZ 16 15 33, eZ Sn 16 15 55, BCIS: H = 16 14 29, (DECM), 47.2N, 10.8E, Austria, Tyrol.
- 11 iZ+ PKP 23 05 50.6, USCGS: H= 22 46 05.7, 19.2S, 173.6W, h= 120 km, Tonga Islands, M= 4.7-5.3 (BRK), 5.6 SD 0.4 (CGS).
- 12 eZ P 00 08 54, USCGS: H= 00 04 12, 38.9N, 41.3E, h= 64 km, Turkey, 12 killed, 15 injured and damage in Varto area, M= 4.6 SD 0.5 (CGS).
- 12 eZ+ P 02 59 16, eZ S 03 01 46, D= 1440 km, BCIS: H= 02 56 21 (DECM), 35.5N, 22.5E, Mediterranean Sea, West of Crete. ML= 5 (Strasbourg), 4.8 (Moxa),

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From the ISC collection scanned by SISMOS

- 12 eZ Pn 09 04 11, eZ Sn 09 05 13,
- 12 Z! PKP 17 57 (00), USCGS: H= 17 37 27.3, 21.5S, 170.5E, h= 134 km, Loyalty Islands region M= 5.3 SD 1.0 (CGS).
- 12 eiZ- P 18 56 55, eZNE S 19 00 07, D= 2000 km, BCIS: H= 18 53 05, (DECM), 44.7N, 37.3E, Northwest of Caucasus, URSS. M= 5.2, 5.1 (Moxa), 5 (Pruhonice), 5 (Strasbourg), USCGS: H= 18 53 08.5, 44.6N, 37.4E, h= 26 km, Western Caucasus, M= 5 1/2 (PAL), 5.9 SD 09 (CGS).
- 12 eZ PKP 21 59 56, USCGS: 21 39 58, 20.6S, 174.4W, h= 33 km. Tonga Islands, M= 4.6 SD 1.5 (CGS).
- 13 eZ 03 46 57, eZ (Sn) 03 47 30.
- 13 eZ 08 34 06, traces, USCGS: H= 08 20 59.4, 12.6N, 87.7W, h= 61 km, Near coast of Nicaragua. Felt at San Salvador. M= 5 (PAL), 5.3 SD 1.0 (CGS).
- 13 eZ 14 58 20, traces, USCGS: H= 14 40 25.6, 01.0S, 122.8E, h= 126 km, Northern Celebes. M= 5.0 SD 1.5 (CGS).
- 13 eZ PKP 21 22 31, USCGS: H= 21 02 52.3, 22.4S, 171.6E, h= 107 km, Loyalty Islands region, M= 4.9 SD 1.3 (CGS).
- 14 eZ P 06 31 18, USCGS: H 06 18 47.6, 35.6N, 140.0E, h= 71 km, Near south coast of Honshu, Japan. M= 5.0 SD 0.5 (CGS)
- 14 eZ PKP1 07 43 29, iZ PKP2 07 43 32.8, USCGS: H= 07 24 06, 15.1S, 174.2W, h= 189 km, Tonga Islands. M= 4.6 SD 0.5 (CGS).
- 14 eZ 09 43 00, trace.
- 14 eZ 15 56 04, eZ 15 57 17, BCIS: H= 15 54 48, 50.0N, 18.3E, Czechoslovakia.
- 15 iZ P 08 11 04.7, USCGS: H= 08 00 00.7, 16.9N, 61.5W, h= 89 km, Leeward Islands, M= 5.4 SD 0.5 (CGS).
- 15 eZ Pn 23 52 25, iZ (Sn) 23 54 06.5, BCIS: H= 23 50 08 (DECM), 38.8N, 21.5E, Greece. USCGS: H= 23 50 13.1, 39.0N 21.8E, h= 44 km, Greece, M= 4.5 SD 1.7 (CGS).
- 16 eZ 19 18 06, eZ Sn 19 19 11.
- 16 eZ P 19 51 25, USCGS: H= 19 43 27.4, 40.7N, 74.2E, h= 33 km, Kirgiz - Sinkiang border region, M= 4.8 SD 1.5 (CGS).
- 16 eZ 22 53 50, eZ 22 54 23.
- 17 eZ+ PKP1 02 43 44, eZ! PKP2 02 43 48, USCGS: H= 02 24 06.9 21.6S, 169.9E, h= 63 km. Loyalty Islands region, M= 5.2 SD 1.3 (CGS).
- 17 eZ P or PKP 10 20 26.
- 17 eZ (Pg) 10 40 34, eiZ Sg 10 40 49, (D = 120 km.).
- 17 iZ PKP 16 24 08.1, eZ pPKP 16 25 05, USCGS: H= 16 04 37.1, 19.6S, 173.4W, h= 220 km. Tonga Islands. M= 4.9 SD 1.1.
- 18 eZ P 02 04 18, USCGS: H= 01 55 02.1, 08.4N, 58.5E, h= 33 km. Carlsberg Ridge. M= 4.9 SD 1.2 (CGS).
- 18 eZ P 10 07 55, USCGS: H= 09 59 10.0, 13.1N, 57.6E, h= 33

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- (cont.) km. Arabian Sea, M= 5.1 SD 1.5 (cgs).
- 18 eZ 19 41 30, eZ 19 42 29, weak.
- 18 Z P or PKP 19 47 (00), weak.
- 19 eZ P 01 52 37, USCGS: H= 01 40 53.9, 56.2N, 164.9E, h=18 km. Komandorsky Islands region. M= 6- 6 1/4 (PAS), 6- 6.3 (BRK), 6 (PAL), 5.4 SD 0.8 (CGS).
- 19 eZ 11 16 26, eZ (Sn) 11 17 56.
- 20 eZ Pn 10 18 11, iZ Sn 10 20 04.0, D = 1080 km, BCIS: H= 10 16 08, (DECM), 38.7N, 21.4E, h= 32 km, Greece, M=4.7 SD 1.2 (CGS).
- 21 eZ PKP1 03 53 31, eZ PKP2 03 53 53, USCGS: H= 03 33 09.6, 52.8S, 160.3E, h= 34 km, Macquarie Island region, M= 5.6 SD 0.9 (CGS).
- 21 eZ Pn 03 59 03, eZ 04 00 29.
- 21 iZ+ P 04 05 50.0, eZ 04 07 46, BCIS: H= 03 58 00, 50.0N, 78.0E, Kazakhstan, Semipalatinsk region (Explosion?), M= 5.8 (Upsala), USCGS: H= 03 57 57.8, 49.7N, 77.9E, Eastern Kazakh SSR, h= 0 km, M= 5,6 SD 1.0 (CGS).
- 21 eZ PKP 05 42 06, USCGS: H= 05 23 51.1, 05.0S 154.3E, h= 415 km. Solomon Islands, M= 5.0 SD 0.7 (CGS).
- 21 eZ Pn 06 50 37, iZ Sn 06 50 57.1, D = 170 km.
- 21 eiZ PKP 18 48 58, iZ! 18 49 02.8, eZ pPKP 18 51 23, USCGS 18 30 14.9, 17.8S, 178.5W, h= 591 km, Fiji Islands region, M= 6 (PAS), 5- 5.3 (BRK), 5.6 SD 0.7 (CGS).
- 22 iZ P 03 48 42.3, USCGS: H= 03 39 59.7, 42.8N, 84.5E, h=33 km, Northern Sinkiang Prov., China. M= 5.2 SD 1.0 (CGS).
- 22 iZ PKP 08 01 26.1, USCGS: H= 07 41 42.7, 18.3S, 167.2E, h= 33 km. New Hebrides Islands, M= 5.1 SD 1.4 (CGS).
- 22 iZ- PKP 08 45 03.7, eZ PP 08 48 17, D = 15800 km, USCGS: 08 25 54.7, 16.0S, 168.0E, h= 187 km, New Hebrides Island Felt on Espiritu Santo. M= 5.5 SD 0.6 (CGS).
- 22 eZ P 10 29 41, USCGS: H= 10 17 22.5, 51.7N, 173.5W, h= 56 km, Andreanof Islands, Aleutian Islands. Felt on Adak. M= 5 3/4 (PAL), 5.6 SD 1.0 (CGS).
- 22 eZ Pg 23 58 36.2, iZ (Sg) 23 58 42.4, (D = 45 km.).
- 23 eZ Pn 05 30 43, eZ 05 32 20, iZ Sn 05 32 44.6, D = 1150 km.
- 23 eZ P 14 44 09.0, USCGS: H= 14 31 51.2, 51.7N, 173.5W, h= 55 km, Andreanof Islands, Aleutian Islands. M= 4.5- 4.9 (BRK), 5.3 SD 0.7 (CGS).
- 23 eZ (Pn) 15 32 47, eZ! Sn 15 33 57, (D = 660 km.).
- 24 eZ Pn 01 29 51, eiZ Sn 01 31 27, D = 910 km, USCGS: H= 01 27 41, 39.2N, 21.9E, h= 33km, Greece, M= 4.4 SD 0.9 (CGS).
- 24 eZ Pn 01 36 31, eZ Sn 01 38 07, D = 910 km.

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- 24 eZ Pn 02 13 28, eZ Sn 02 14 (00), D= 900 km.
- 24 Z PKP 09 12 (00), Usccgs: H= 08 52 13, 16.3S 172.8W, h= 49 km, Samoa Islands region. M= 4.8 SD 0.5 (CGS).
- 24 eZ 13 41 30, eZ (Sn) 13 41 48.
- 24 eZ PKP 17 37 55, iZ 17 38 02.5, USCGS: H= 17 18 17.6, 20.4S, 175.8W, h= 112 km, Tonga Islands .Felt. M= 5.2 SD 0.7 (CGS).
- 24 eZ 23 18 50, eZ (Sn) 23 19 02.
- 25 eZ 03 55 40, eZ (Sn) 03 56 05.5.
- 25 eZ Pn 20 06 50, eZ (Sn) 20 06 44, D = 520 km.
- 25 eZ P or PKP 22 32 32.
- 26 eZ PKP1 22 59 30, eiZ PKP2 23 00 07, USCGS: H= 22 39 47.8 27.5S, 177.9W, h= 143 km, Keruadec Islands, M= 5.2 SD 1.2 (CGS)&
- 27 eZ PP 05 07 09, USCGS: H= 04 48 59.4, 24.2S, 70.3W, h= 35 km, Near coast of Northern Chile. Felt at Antofagasta. M= 5.4 - 5.8 (BRK), 6.0 SD 1.1 (CGS).
- 27 iZ+ P 14 55 05.8, eZ S 15 00 31, D = 3600km, BCIS; H= 14 49 01, (DCM), 32.6N, 49.0E, Southwestern Iran, M= 4.6 (Pruhonice). USCGS: H=14 49 02.0, 32.6N, 48.8E, h= 36 km, Western Iran, M= 5.5 SD 0.7 (CGS).
- 27 eZ P 15 36 29, USCGS: H= 15 30 26.4, 32.6N, 48.8E, h= 45 km. Western Iran, M= 3.9 SD 0.8 (CGS).
- 27 eZ P 18 12 36, USCGS: H= 18 06 34, 32.8N, 48.7E, h= 36km, Western Iran, M= 4.9 SD 1.2 (CGS).
- 28 eZPKP 01 38 32, USCGS: H= 01.18 27.4, 17.2S, 167.7E, h= 17 km, New Hebrides, M= 5.3 SD 1.4 (CGS).
- 28 eZ Pn 02 00 15.4, iZ! (Pb) 02 00 24.4, iZPg 02 00 26.7, iZ Sn 02 00 52.3, iZ Sg 01 09.8, iZ 02 01 22.2, iZ!! 02 01 29.2, D= 360 km, BCIS: H= 01 59 17, Ljubuški, D(Sarajevo SW)= 95 km, Premonitory shock of the Seisms of July 30, 1966 at 05 19.
- 28 eZ 21 10 30, iZ 21 10 49.0, weak.
- 29 eZ 15 16 35, eZ 15 16 51.
- 30 eZ Pn 05 20 24, iZ! (Pb) 05 20 32.0, iZ Pg 05 20 35.2, iZ Sn 05 21 05.3, iZ Sg 05 21 16.6, iZ!! 05 21 45.3, D= 390 km, BCIS: H= 05 19 25, 43.1N, 18.0E, Near Mostar, Yugoslavia.
- 31 eZ 04 27 08, eZ 04 27 25.
- 31 iZ Pn 11 04 58.7, eZ (Sn) 11 06 50.6, (D= 1070 km.).
- 31 eZ PKP 12 06 58, eZ PP 12 09 51, USCGS: H= 11 47 05, 18.1S, 173.7W, h= 33 km, Tonga Islands, M= 4.6 SD 0.9 (cgs).

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- 1 eZ P or PKP 18 27 23.
- 1 eZ+ P 19 18 08, eZ PP 19 19 49, eZ S 19 24 43, D = 4700 km, BCIS: H= 19 09 57, (DECM), ML= 6 - 6 1/4 (Strasbourg), 6.1 (Moxa, Pruhonice), M= 5.6 (Moxa). USCGS: H= 19 09 55.1 29.9N, 68.8E, h= 33km, West Pakistan, M= 5.8 SD 1.0 (CGS).
- 1 eZ+ P 20 39 09, iZ PP 20 40 51.9, D = 4700 km, BCIS: H= 20 30 57, (DECM), West Pakistan, M= 6 - 6 1/2 (Quetta), ML= 6 - 6 1/4 (Strasbourg), 5.8 (Moxa). USCGS: H= 20 30 57 29.9N, 68.6E, h= 33 km, West Pakistan. M= 5.7 SD 1.4 (CGS).
- 1 eZ P 20 44 19, USCGS: H= 20 32 01.3, 44.6N, 150.4E, h= 24 km. Kurile Islands region. M= 5.2 SD 0.9 (CGS).
- 1 eZNE+ P 21 11 10, eiZ PP 21 12 53, eZ S 21 17 39, eNE 21 18 00, D= 4700 km, BCIS: H= 21 03 00 (DECM), 30.ON, 68.5E, h= normal, Western Pakistan, M= 6 3/4 - 7 (Strasbourg, Quetta), ML= 6.8 (Moxa), ML= 6.7 (Pruhonice), PRESS: 100 killed, 10000 homeless, 1400 houses destroyed, 44 villages damaged. USCGS: H= 21 02 59.6, 30.ON, 68.7E, h= 33 km. West Pakistan, 2 killed, 15 injured, about 45 villages destroyed. Felt in Quetta, M= 6 3/4 (PAS), 6.2 SD 2.3 (CGS).
- 1 eZ+ P 22 39 08, eZ PP 22 40 49, D= 4700 km, BCIS: H= 22 30 58, (DECM), 30.ON, 68.5 E, Western Pakistan, Felt in Duki and Quetta. USCGS: H= 22 30 54.8, 30.ON, 68.9E, h= 33 km. West Pakistan, M= 5.2 SD 1.1 (CGS).
- 1 Z PKP 23 55(00), USCGS: H= 23 35 08, 55.9S, 147.0E, h= 33 km. West of Macquarie Islands, M= 4.9 SD 1.5 (CGS).
- 2 eZ P 05 49 49, USCGS: H= 05 41 37.4, 30.ON, 68.8E, h= 32 km, West Pakistan, M= 5.2 SD 0.9 (CGS).
- 2 eZ P 09 27 13, USCGS: H= 09 18 57.6, 29.9N, 69.2E, h= 21 km, Western Pakistan, M= 5.1 SD 0.6 (CGS).
- 2 eZ 18 13 14, eZ 18 13 38.
- 2 eZ P 19 01 00, USCGS: H= 18 48 33.8, 36.5N, 138.1E, h= 2 km, Honshu, Japan. Slight damage at Matshushiro. M= 4.9 SD 1.2 (CGS).
- 2 eZ 20 45 11, eZ (Sn) 20 45 24.
- 3 eZ Pg 06 33 43, iZ (Mg) 06 33 58.9, (D= 130 km.).
- 4 eZ PKP 15 45 05, USCGS: H= 15 25 40, 17.8S, 174.8W, h= 239 km, Tonga Islands, M= 5.1 SD 1.2 (CGS).
- 5 eZ P 01 12 00, USCGS: H= 01 03 04.4, 32.6N, 79.6E, h= 55 km, Kashmir - Tibet border region. M= 5.3 SD 1.5 (CGS).
- 5 eiZ P 04 05 49, BCIS: H= 03 58 00, 50.ON, 78.0E, h= 0 km, Kazakh. Semipalatinsk region. Explosion? M= 5.7 (Uppsala, Moxa).
- 5 eZ Pn 10 45 44, eiZ Sn 10 46 20, (D = 330 km.).
- 5 eiZ+ Pn 17 48 56, iZ Pg 17 49 19.8, iZ Sn 17 49 58.9, iZ! Sg 17 50 28.7, D= 590 km, BCIS: H= 17 47 43, (DECM), Premonitory shock. Yugoslavia. M= 4.0 (Moxa), 3.8 (Pru-

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- (cont.) honice). USCGS: H= 17 47 43, 42.4N, 19.2E, h= 33 km, Yugoslavia, M= 5.2 SD 1.3 (CGS).
- 6 eiZ+ Pn 02 32 22, iZNE Pg 02 32 44.3, iZ Sn 02 20.1, iZNE Sg 02 33 46.9, D= 540 km. PCIS: H= 02 31 07 (DECM), 42.ON, 18.9E, Adriatic Sea, Near coast of Yugoslavia. ML= 4.8 (Moxa), 4.5 (Pruhonice), USCGS: H= 02 31 08, 42.2N, 18.8E, h= 33 km, Yugoslavia, M= 5.3 SD 1.2 (CGS).
- 6 eZ Pn 03 19 37, eZ Sn 03 20 36, D= 550 km.
- 6 eZ 03 27 23, iZ (Sn) 03 27 47.2.
- 6 eZ 03 52 46, eZ Sn 03 53 07, weak.
- 6 eZ 04 02 35, iZ 04 03 17.6, eZ (Sn) 04 03 43.
- 6 eZ Pn 05 24 51, iZ Sn 05 25 50.4, D= 550 km.
- 6 iZ Pn 05 53 13, iZ Pg 05 53 24.2, iZ Sn 05 54 14.0, iZ Sg 05 54 42.1, eNE Sg 05 54 45, D = 580 km, BCIS: H= 05 52 00, (DECM), 42.ON, 19.0E, Adriatic Sea. Near coast of Yugoslavia. Aftershock of seismicity of August 6, 1966 at 02 31. USCGS: H= 05 51 57, 42.2N, 18.8E, h= 11 km, Yugoslavia, M= 5.4 SD 1.1 (CGS).
- 6 eZ Pn 18 34 53, eZ Sn 18 36 38, D= 1000 km, BCIS: H= 18 32 33, (DECM), 37.75N, 22.0E, Peloponissos (Greece). USCGS: H= 18 32 34.2, 37.9N, 22.3E, Southern Greece, h= 55 km, M= 4.4 SD 1.0 (CGS).
- 7 eZ- P 02 25 31, eZ S 02 36 19, D= 9800 km, USCGS: H= 02 13 05.1, 50.6N, 171.3W, h= 39 km, Aleutian Islands region. Felt on Adak. M= 7.0 (BRK), 6.5 SD 0.6 (CGS).
- 7 eZ Pn 14 33 34, eZ Sn 14 35 26, BCIS: H= 14 30 47, (DECM). 36.2N, 22.0E, h= normal. Mediterranean Sea. USCGS: H= 14 30 47, 36.4N, 22.2E, h= 5.4 km, Southern Greece, M= 4.5 SD 1.3 (CGS).
- 7 eZ P 17 49 31, USCGS: H= 17 36 26.7, 31.8N, 114.5W, h= 33 km, widely felt in California, Arizona and northern Mexico. M= 6 1/4 - 6 1/2 (FAS), 6.7 - 7.0 (BRK), 6.3 SD 1.3 (CGS).
- 7 eZ P 20 31 12, USCGS: H= 20 18 41.5, 42.3N, 143.0E, h= 66 km, Hokkaido, Japan region, M= 5.1 SD 1.1 (CGS).
- 7 eZ 20 46 35, eZ 20 46 56.
- 8 iZ+ Pn 02 05 20.5, iZ Pg 02 05 42.6, iZ Sn 02 06 21.2, D = 570 km.
- 8 eZ 03 02 18, trace.
- 8 eZ PKP 07 43 40, USCGS: H= 07 24 13.8, 105S, 164.3E, h= 16 km, Santa Cruz Islands region. M= 5.3 SD 0.8 (CGS).
- 8 eZ 11 10 00, eZ 11 11 46.
- 8 eiZ Pn 11 45 26, iZ 11 46 15.5, iZ 11 46 50.3.
- 8 eZ P or PKP 14 53 14, eZ 14 53 38,

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- 9 eZ Pn 01 06 50, iZ Pg 01 07 12.6, iZ (Sn) 01 07 51.6, iZ 01 08 15.5, D= 570 km, BCIS: H= 01 05 35 (DECM), 42.2N, 19.3E, Yugoslavia, south of Titograd, M= 3.9 (Moxa), USCGS: 01 05 36, 42.2N, 19.0E, Yugoslavia, h= 33 km, M= 4.2 SD 1.2 (CGS).
- 9 iZ- Pn 03 35 55.9, iZ Sn 03 36 59.6, iZ 03 37 32.6, D= 600 km, BCIS: H= 03 34 14 (DECM), 40.1N, 19.8E, h=45 km, Albania, ML= 4.3 (Moxa), USCGS: H= 03 34 14.3, 40.3N, 19.9E, h= 33 km, Albania M= 5.0 SD 1.5 (CGS).
- 9 eZ 04 41 28, iZ 04 41 53.7, Obscured by microseisms!
- 9 iZ Pn 15 11 41, eZ Sn 15 12 32, D= 470 km.
- 9 eZ PKP 22 45 11, USCGS: H= 22 25 42.3, 17.2S, 167.5E, h= 33 km, New Hebrides Islands. M= 5.2 SD 1.4 (CGS).
- 10 eZ- PKP 05 20 48, iZ! 05 20 56.9, USCGS: H= 05 01 09.4, 20.1S, 175.3W, h= 96 km. Tonga Islands. M= 6 1/2 (PAS), 5.2 - 5.6 (BRK), 5.8 SD 0.7 (CGS).
- 10 eiZ+ Pn 09 04 58.9, iZ Sn 09 05 13.3, D= 100km, Yugoslavia. Felt: Sv. Nedjelja, Samobor.
- 10 eZ PKP 12 52 11, USCGS: H= 12 33 42.2, 5.5S, 151.8E, h=40 km, New Britain region, Felt at Rabaul. M= 5.3 SD 1.3 (CGS).
- 10 eZ PKP 13 26 13, USCGS: H= 13 07 18.5, 5.4S, 151.7E, h=63 km, New Britain region. Felt at Rabaul. M= 5.1 SD 1.1 (CGS).
- 10 eZ P 15 25 18, iZ 15 25 36.7, eZ S 15 27 19, BCIS: H= 15 22 35, (DECM), 35.9, 21.9E, h= normal, Mediterranean Sea, south of Greece. ML= 4.3 (Athens). USCGS: H= 15 22 34.8, 36.2N, 22.2E, h= 7km, southern Greece. M= 4.7 SD 1.2 (CGS).
- 10 iZ+ P 22 13 20.5, eZ PP 22 15 21, D= 5800 km, USCGS: 22 05 35.0, 38.4N, 69.6E, h= km, Tadzhik SSR, M= 5.5 SD 0.9 (CGS).
- 11 eiZ- P 00 25 56.9, eZ Sn 00 27 39, D= 1000 km, BCIS: H= 00 23 40, (DECM), 37.8N, 21.2E, h= normal, Ionian Sea. USCGS: H= 00 23 40.4, 37.8N, 20.9E, h= 43 km, M= 4.5 SD 1.2 (CGS).
- 11 eZ Pn 04 36 24, eZ Sn 04 38 08.0, D= 1020 km, BCIS: H= 04 34 16 (DECM), 38 3/4N, 21 1/2 E, Greece. USCGS: H= 04 34 17, 38.9N, 21.8E, h= 33 km, Greece, M= 4.5 SD 1.3 (CGS).
- 11 eZ 05 06 57, eZ (Sn) 05 08 25, eZ 05 09 48.
- 11 eiZ PKP1 05 32 28, iZ! PKP2 05 32 37.4, USCGS: H= 05 12 42.2, 19.3S, 173.9W, h= 33 km, Tonga Islands, M= 5.5 SD 0.6 (CGS), 4.7 - 5.2 (BRK).
- 11 eiZ PKP 08 58 53, USCGS: H= 08 40 06, 18.1S, 178.3W, h= 573 km, Fiji Islands region, M= 4.2 SD 0.9 (CGS).
- 11 eiZ PKP 09 13 50, USCGS: H= 08 55 05, 18.1S, 178.4W, h= 580 km, Fiji Islands region, M= 3.5 SD 2.0 (CGS).
- 11 eZ PKP 20 59 48, USCGS: H= 20 39 55, 23.5S, 175.9W, h= 32 km, Tonga Islands region, M= 5.3 SD 0.5 (CGS).
- 11 eZ PKP 23 45 30, USCGS: H= 23 25 37.9, 23.4S, 175.9W, h=

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- (cont.) 37 km, Tonga Islands region. M= 5.4 - 5.8 (BRK), 5.3 SD 0.6 (CGS).
- 12 eZ PKP 04 19 28, USCGS: H= 03 59 50.1, 22.4S, 176.2W, h= 128 km, South of Fiji Islands, M= 5.4 SD 0.8 (CGS).
- 12 eZ PKP 14 57 45, USCGS: H= 14 37 56, 23.6S, 176.0W, h= 63 km, Tonga Islands region, M= 5.0 SD 0.5 (CGS).
- 12 eZ;- P 20 29 16.9, USCGS: H= 20 16 59.8, 52.9N, 161.6W, h= 31 km, South of Alaska. M= 4.5 - 4.9 (BRK), 5.6 SD 1.4 (CGS).
- 13 eZ PKP 02 43 49, USCGS: H= 02 24 02, 22.3S, 170.2E, h= 11 km, Loyalty Islands region. M= 4.7 SD 1.2 (CGS).
- 13 eZ PKP 06 04 45, USCGS: H= 05 44 53, 22.0S, 170.1E, h= 33 km, Loyalty Islands region,
- 13 eZ P or PKP 06 34 55.
- 13 eZ P or PKP 07 03 39, eZ 07 04 09.
- 13 eZ PKP 09 38 16, USCGS: H= 09 18 37, 22.3S, 170.2E, h= 40 km, Loyalty Islands region, M= 4.6 SD 0.7 (CGS).
- 13 eZ P or PKP 11 02 21.
- 13 eZ PKP 13 31 19, USCGS: H= 12 11 31, 21.8S, 170.6E, h= 33 km, Loyalty Islands region, M= 4.7 SD 1.9 (CGS).
- 13 eZ PKP 20 13 41, USCGS: H= 19 53 53, 21.6S, 170.8E, h= 33 km, Loyalty Islands region, M= ? (CGS).
- 13 eZ 22 41 08, eZ 22 42 53, eZ 22 43 05.
- 14 eZ 02 42 35, eZ (Sn) 02 43 58.
- 14 eZ PKP 05 10 52, USCGS: H= 04 51 04.5, 21.9S, 170.0E, h= 18 km, Loyalty Islands region, M= 5.1 SD 1.3 (CGS).
- 14 eZ PKP 10 22 28, USCGS: 10 02 48, 22.1S, 170.4E, h= 33 km, Loyalty Islands region, M= 4.8 SD 1.5 (CGS).
- 14 eZ PKP 12 11 45, USCGS: H= 11 51 59.6, 22.1S, 170.3E, h= 33 km, Loyalty Islands region,
- 14 eiZ Pn 21 29 52, iZ 21 30 09.5, iZ (Sn) 21 30 32.7, (D= 360 km.), BCIS: H= 21 28 32 (DECM), 45.0N, 10 1/2 E, Po Valley (Italy).
- 14 eZ PKP 21 38 42, USCGS: H= 21 18 56, 21.8S, 170.1E, h= 38 km, Loyalty Islands region.
- 15 eiZ P 02 24 44.4, eZ S 02 31 35, D= 5200 km, USCGS: H= 02 15 33.8, 28.7N, 78.9E, h= 50 km, Northern India, 15 killed 24 injured, at New Delhi. M= 5.8 SD 0.8 (CGS).
- 15 eZ PKP 02 58 41, eZ PP 03 02 20, D= 16400 km, USCGS: H= 02 12 47.1, 17.7S, 178.4W, h= 556 km, Fiji Islands region, M= 4.8 SD 0.5 (CGS).
- 15 eZ Pn 03 44 40, eiZ 03 46 15, eZ (Sn) 03 46 34, (1100 km),
- 15 eiZ- P 10 30 48, USCGS: H= 10 20 42.2, 5.8N, 64.0E, h=37 km, Carlsberg Ridge, M= 4.8 SD 0.7 (CGS).

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- 15 eZ P 13 47 53, USCGS: H= 13 36 23.7, 60.4N, 146.0W, h= 9 km, Southern Alaska, M= 4.6- 5.0 (BRK), 53 SD 0.5 (CGS).
- 15 eZ P or PKP 21 46 22.
- 16 eZ P or PKP 01 35 33.
- 16 eiZ+ P 02 23 58.4, eZNE! PP 02 25 42, iZ! 02 29 12, D= 4700 km, USCGS: H= 02 16 19.7, 36.4N, 70.8E, h= 199 km, Hindu Kush region. Felt Peshawar, M= 5.7 SD 0.8 (CGS).
- 16 eZ Pn 03 30 18, iZ 03 30 3L.5, iZ Sn 03 31 41.0, BCIS: H= 0328 40, (DECM), 40.0N, 20.0E, Albania coast. Premonitory. D= 790 km.
- 16 iZ Pn 03 55 24.6, iZ Pg 03 56 04.4, iZ (Sn) 03 56 48.6, D= 790 km, BCIS: H= 03 53 38 (DECM), 39.8N, 19.9E, Albania coast. M= 4.9 (Athens). USCGS: H= 03 53 42.9, 40.3N, 19.9E, h= 33 km, Albania, M= 4.9 SD 1.6 (CGS).
- 16 eZ 05 14 13, iZ 05 14 23.3.
- 16 Z Pn 13 48 (00), iZ 13 49 21.5.
- 16 eZ PKP 20 05 25, Obscured by microseisms! USCGS: H= 19 45 38.7, 21.4S, 171.3E, h= 36 km. Loyalty Islands region. M= 5.6 - 6.0 (BRK) M 5.3 SD 1.1 (CGS).
- 17 eZ (PKP) 01 13 34, Obscured by microseisms! USCGS: H= 00 53 43, 21.5S, 171.2E, h= 51 km. Loyalty Islands region. M= 4.7 SD 1.7 (CGS).
- 17 eiZ 05 16 36.7, iZ 05 16 44.5, iZ (Sn) 05 17 18.0, (D= 370 km), BCIS: H= 05 16 00 (DECM), 44.5N, 11.9E, Romagna, Italy.
- 17 eZ (P) 21 10 48, Obscured by microseisms! USCGS: H= 20 58 39.5, 52.3N, 174.9E, h= 32 km, Near Islands, Aleutian Islands. Felt. M= 5.6 SD 0.7 (CGS).
- 18 eZ P 00 17 59, USCGS: H= 00 05 04.9, 1.7 S, 100.6E, h= 19 km, Southern Sumatra, M= 5.3 SD 0.5 (CGS).
- 18 eZ P 06 50 21, USCGS: H= 06 38 04, 51.5N, 177.8E, h= 44 km, Rat Islands, Aleutian Islands. M= 5.3 SD 0.9 (CGS).
- 18 eZ P 10 46 11, eZ PP 10 49 49, D= 10100 km, USCGS: H= 10 33 16.5, 14.6N, 91.7W, h= 76 km, Guatemala, Felt at San Salvador. M= 6.0 (PAS), 5.9 - 6.2 (BRK), 6 - 6 1/4 (PAL), 5.9 SD 1.0 (CGS).
- 18 Z P 14 48 54, USCGS: H= 14 33 59.8, 0.2S, 125.1E, h= 56 km, Moluca Sea. M= 6.3 SD 1.0 (CGS).
- 18 eZ P 14 51 55, USCGS: H= 14 37 53, 0.1S, 125.1E, h= 33 km, Moluca Sea, M= 6.3 SD 1.4 (CGS).
- 18 eZ PKP 15 22 05, USCGS: H= 15 02 17, 21.7S, 169.8E, h= 20 km, Loyalty Islands region. M= 5.2 SD 1.3 (CGS).
- 18 eZ Pn 22 12 03, eZ 22 14 07, eZ 22 14 43, BCIS: H= 22 09 00 (DECM), 36.2N, 26.3E, h= 120 km, Dodecanese. USCGS: H= 22 09 00.2, 36.2N, 26.4E, h= 122 km, Dodecanese Islands, M= 4.3 SD 1.0 (CGS).
- 19 eZ p 03 21 35, USCGS: H= 03 10 04.2, 59.5N, 144.6W, h= 33

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- (cont.) km, Gulf of Alaska, M= 4.6 SD 1.3 (CGS).
- 19 eZ Pn 0407 13, iZ! 04 07 17.2, iZ! Pg 04 07 19.9, iZ (Sn) 04 07 42.0, iZ Sg 04 07 49.1, D= 270 km, BCIS: H= 04 06 32, (DECM), 45.6N, 11.4E, Italy, eastern of Garda Lake. Felt in northern Italy, especially east of Garda Lake and in Verona. Some material damage. (Press).
- 19 eZ Pn 04 39 30, iZ 04 39 36.9, iZ (Sg) 04 40 22.4, (D=330 km),
- 19 iZNE+ P 12 26 53.8, iZ! 12 27 01.2, iZ PP 12.27 17.2, eiZ NE S 12 30 40, iZ 12 31 08, eiZ M 12 36 00, D= 2335 km, BCIS: H= 12 22 13 (DECM), 39.2N, 41.5E, h= 50 km, Eastern Anatolia, M= 7.7 (Athens), 7.2 (Uppsala), MS= 7.1 (Praha), M= 7.0 (Strasbourg), M= 7.0 (Collm), ML= 6.9 (Moxa), 6.8 (Pruhonic, Praha, Collm), MP= 6.7 (Collm). Destructiv, felt largely in eastern Anatolia, especially at Varto (39°10'N, 41°28'E), Hinis, Mus, Bingol, Erzerum, Karliova, Tekman, Tehat. 2396 killed, 1788 injured (preliminary data Anatolia Agency). 3000 buldings total destroyed. Considera bles material damage (Press). Town Varto completely destroyed (Istambul TU). USCGS: H= 12 22 09.6, 39.2N, 41.7E, h= 26 km, Turkey, more than 3000 killed, many injured, with mayor property damage in Erzerum, Bingol, Mus and Bitlis provinces. M= 7 (PAS), 6.7 - 6.9 (BRK), 6 3/4 (PAL), 6.7 (CGS surface wave), 6.1 SD 2.9 (CGS).
- 19 eZ P 12 58 59, aftershock.
- 19 eZ+ 13 19 50.0, aftershock, BCIS: H= 13 15 12, USCGS: H= 13 15 10.1, 39.2N, 41.1E, h= 33 km, Turkey, M= 5.1 SD 1.3 (CGS).
- 19 eZ P 13 37 40.
- 19 iZ+ P 13 59 10.2, iZ! 13 59 17.6, iZ PP 13 59 33.3, D = 3000 km, aftershock, BCIS: H= 13 54 30, USCGS: H= 13 54 24.9, 38.9N, 41.7E, h= 33 km, Turkey, M= 5.3 SD 1.5 (CGS).
- 19 iZ P or PKP 14 16 12.5.
- 19 eZ+ P 14 08 38, weak, aftershock, USCGS: H= 14 03 58, 39.2N, 41.3E, h= 33 km, Turkey.
- 19 eZ+ P 14 22 35, iZ 14 22 40.7, BCIS: H= 14 17 57, aftershock, USCGS: H= 14 17 57.5, 39.2N, 41.1E, h= 47 km, Turkey, M= 5.1 SD 0.9 (CGS).
- 19 eZ P 18 45 59, BCIS: H= 18 41 19, aftershock, USCGS: H= 18 41 16.0, 39.1N, 41.4E, h= 47 km, Turkey, M= 4.6 SD 1.8 (CGS).
- 20 eZ P 07 56 32, USCGS: H= 07 43 27.6, 03.2S, 77.2E, h= 116 km, Peru - Equador border region. M= 5.6 SD 0.6 (CGS).
- 20 eiZ P 09 44 18.4, iZ 09 44 23.5, eZ PP 09 47 15, D= 8500 km. USCGS: H= 09 32 31.7, 43.1N, 140.6E, h= 161 km, Hoka-ido, Japan, Felt in Hokaido. M= 6 1/4 (PAS), 5.8 SD 0.6 (CGS).
- 20 eZ P 11 44 16, USCGS: H= 11 31 20, 4.0 S, 102.7E, h= 111km,

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(cont.) Southern Sumatra, M= 5.4 SD 1.3 (CGS).

- 20 iZNE P 12 03 48.4, iNE S 12 07 46.5, BCIS: H= 11 59 12 (DECM), 39.5N, 40.2E, Eastern Anatolia, M= 7.1(Athens), 6.5 (Uppsala), 6 1/2 - 6 1/4 (Strasbourg), ML= 6.4 (Praha), 6.2 (Moxa), 6.1 (Pruhonice), 5.9 (Collm), 6 (Moskva). New damage on the Varto region. (Prefectura of Mus). USCGS: H= 11 59 12.1, 39.3N, 40.9E, h= 37 km, Turkey. 25 killed in Varto area. M= 5.4 SD 1.0 (CGS).
- 20 iZ Pn 12 06 23.6, iZ (Pg) 12 06 48.1, iZ Sn 12 07 23.0, ei NE Sg 12 07 45, D= 560 km, BCIS: H= 12 05 13 (DECM), 42.3 N, 18.9E, Montenegro, Yugoslavia. Felt VII-VIII^o in epicenters region. Two buildings destroyed, many damaged. Damage in Petrovac na moru (Ljubljana). USCGS: H= 12 05 19.0, 42.3N, 18.6E, h= 12 km, Yugoslavia, slight damage in Petrovac. M= 5.5 SD 0.3 (CGS).
- 20 eZ 12 47 06, eZ 12 47 15.
- 20 eZ 13 04 17, eZ (Sn) 13 05 26.
- 20 iZ Pn 13 09 24.1, iZ Pg 13 09 45.0, iZ Sn 13 10 25.0, iZ Sg 13 10 45.3, D= 560 km, Montenegro, aftershock.
- 20 eZ 13 21 04, eZ (Sn) 13 21 33, weak.
- 20 eZ 15 22 11, BCIS: H= 15 17 33, (DECM), 39.0N, 40.3E, eastern Anatolia, aftershock. M= 4 1/2 (Moxa), 4.4 (CGS).
- 20 eZ 16 47 45, eZ 16 48 07.
- 20 eZ 16 55 38, eZ (Sn) 16 56 08.
- 20 eZ P 17 58 42, BCIS: H= 17 54 04 (DECM), 39,3N, 41.2E, h= 33 km, Turkey, M= 4.4 SD 1.1 (CGS).
- 20 iZ Pn 19 09 36.8, iZ Pg 19 09 58.0, iZ 19 10 37.2, iZ Sg 19 10 57.2, iZ M 19 11 20, D= 560 km, BCIS: H= 19 08 26, Montenegro, Yugoslavia, aftershock. USCGS: H= 19 08 21.4, 42.3N, 18.9E, h= 20 km, Yugoslavia. M= 4.9 SD 1.6 (CGS).
- 20 eZ 19 53 47, eZ 19 54 07, eZ 19 54 44, weak,
- 20 eZ PKP1 23 14 51, eZ PKP2 23 15 12, USCGS: H= 22 55 03.0, 23.4S, 176.0W, h= 57 km, South of Fiji Islands. M= 5 3/4 (PAS), 5.6 - 5.8 (BRK), 5.6 SD 0.7 (CGS).
- 21 eiZ P 00 19 51, BCIS: H= 00 15 09, 39.2N, 41.5E, eastern Anatolia, aftershock of seisms of August 1966 at 12 22, USCGS: H= 00 15 04.1, 39.2N, 41.8E, h= 33km, Turkey, M= 4.8 SD 1.0 (CGS).
- 21 eiZ P 00 22 39, eZ 00 23 36, eZ (S) 00 24 07.
- 21 eZ P 01 33 22.1, iZ 01 34 11.2, eiZ (S) 01 35 53, BCIS: H= 01 30 43 (DECM), 40.3N, 27.6E, eastern Anatolia. Strongly felt in Balikesir (39°40'N, 27°55'E), (Istanbul-Kand.) M= 5 1/2 (Strasbourg), ML= 5.1(Athens), ML= 4.7(Pruhonice) USCGS: H= 01 30 45.2, 40.3N, 27.4E, h= 33 km, Turkey. Felt at Balikesir. M= 4.9 SD 1.6 (CGS).
- 21 eZ 03 22 48, eZ 03 23 15.

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- 21 eZ Pn 10 10 10, eZ (Pg) 10 10 28, eZ Sn 10 11 10, D= 560 km, Yugoslavia, Montenegro coast.
- 21 eZ- Pn 11 52 55, eZ Pg 11 53 16, eiZ Sn 11 53 54, iZ Sg 11 54 22.0, D= 560 km. USCGS: H= 11 50 40, 42.1N, 18.6E, h=33 km. Yugoslavia, Montenegro coast.
- 21 eZ 13 06 05, eZ(Sn) 13 06 50, eZ 13 07 06.
- 21 eZ P 15 22 35, BCIS: H= 15 17 52 (DECM), 39.1N, 41 3/4E, Eastern Anatolia, aftershock of seisms of August 19, 1966 at 12 22.
- 21 eZ P 20 38 17, USCGS: H= 20 25 36.2, 28.9N, 132.0E, h= 34 km, East of Ryukyu Islands, M= 5.4 SD 0.7 (CGS).
- 21 eZ P 22 41 21, BCIS: H= 22 36 34, (DECM), 39.3N, 41.4E, Eastern Anatolia.
- 22 eZ 02 10 13, eZ 02 10 35, traces.
- 22 eZ 05 15 11, eiZ 05 15 30, eiZ 05 15 40, traces.
- 22 eZ P 14 31 47, eZ pP 14 34 10, USCGS: H= 14 21 23.7, 50.3 N, 147.6E, h= 628 km, Sea of Okhotsk, M= 5.2 - 5.6 (BRK), 5.2 SD 0.5 (CGS).
- 22 eZ 17 29 08, eZ (Sn) 17 29 23.
- 22 eZ+ PKP1 18 01 52, iZ PKP2 18 01 56.7, eZ PP 18 04 56, D= 15600 km, USCGS: H= 17 42 10.6, 22.4S, 170.6E, h= 39 km, Loyalty Islands region. M= 6.7 - 7.1 (BRK), 5.5 SD 1.2 (CGS).
- 22 eiZ PKP 20 51 43, USCGS: H= 20 31 58.2, 22.5S, 170.5E, h= Loyalty Islands region, M= 5.2 SD 1.6 (CGS).
- 22 eZ P or PKP 21 10 38.
- 22 eiZ PKP 00 13 22, USCGS: H= 23 53 36.4, 22.3S, 170.5E, h= 45 km, Loyalty Islands region. M= 4.5 SD 1.6 (CGS).
- 23 eZ P or PKP 02 51 12.
- 23 eiZ P or PKP 12 25 54, eZ 12 26 44, weak.
- 23 eZ P or PKP 15 53 21, iZ 15 54 18.5, iZ 15 54 34.5.
- 23 iZ+ Pg 17 08 58.0.
- 23 iZ+ P 18 34 50.7, USCGS: H= 18 22 16.7, 23.8N, 123.2E, h= 37 km, Southwestern Ryukyu Islands, M= 5.6 SD 0.9 (CGS).
- 23 eZ PKP 22 54 50, USCGS: H= 22 35 02, 16.3, 173.2W, h= 33 km, Tonga Islands. M= 5.0 SD 0.5 (CGS).
- 24 eZ PKP 02 39 51, USCGS: H= 02 20 41, 19.0S, 177.7W, h=442 km, Fiji Islands, M= 4.4 SD 0.8 (CGS).
- 24 iZ p 06 59 25.3, USCGS: H= 06 51 15.8, 29.9N, 68.6E, h= 33 km, West Pakistan. Felt in Loralai. District. M= 5.1 SD 1.2 (CGS).
- 24 eZ (Sn) 19 56 19, Obscured by microseisms!
- 24 eZ (Pn) 22 24 07, eZ 22 25 19, Obscured by microseisms!

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- 25 eZ Pn 06 55 45, eZ Sg 06 57 23, D= 600km, BCIS: H= 06 54 10, 43.1N, 20.5E, Southern Serbia (Sandžak).
- 25 iZ Pg 14 21 08.0, iZ Sg 14 21 10.0, D= 16 km, local.
- 26 eZ P or PKP 01 11 43, Obscured by microseisms!
- 26 eZ 07 10 03, eZ 07 10 28, iZ (Sg) 07 10 38.0, weak.
- 26 eZ PKP 09 26 31, USCGS: H= 09 06 50.0, 22.1S, 170.0E, h= 33 km, Loyalty Islands region, M= 5.4 - 5.8 (BRK), 5.6 SD 1.5 (CGS).
- 26 eZ (P) 09 32 18, Obscured by microseisms!
- 26 eZ P or PKP 13 48 08, Obscured by microseisms!
- 26 eZ PKP 13 52 09, USCGS: H= 13 32 26.6, 22.2S, 169.8E, h= 69 km, Loyalty Islands region. M= 4.1 SD 3.3 (CGS).
- 26 eZ P or PKP 21 01 57, eZ 21 02 07.
- 26 eZ PKP 22 44 38, USCGS: H= 22 24 45, 23.6S, 175.8W, h=33 Tonga Islands region, M= 4.9 SD 1.5 (CGS).
- 26 eZ 23 12 17, eZ 23 13 22, weak.
- 27 eZ PKP 10 46 38, USCGS: H= 10 27 50, 17.9S, 178.4W, h=550 km, Fiji Islands region. M= 4.6 SD 0.9 (CGS).
- 27 eZ 14 11 38, eZ 14 11 57, eZ 14 12 16, weak.
- 28 iZ- Pn 04 19 26.1, iZ Pg 04 19 45.2, iZ Sn 04 20 27.6, iZ Sg 04 20 43.1, iZ Rgl 04 20 53.1, D= 540 km, BCIS: H= 04 18 09, (DECM), 42.1N, 19.0E, Coast of Yugoslavia. Felt in Budva VII MCS (Ljubljana), M= 4.2 (Beograd). USCGS: H= 04 18 13.3, 42.2N, 18.7E, h= 39 km, Yugoslavia, Minor damage in Budva. M= 4.6 SD 1.5 (CGS).
- 28 eZ- PKP1 07 49 25, iZ! PKP2 07 50 20.0, USCGS: H= 07 29 34.7, 35.8S, 178.5E, h= 94 km, Offeastern coast of N. Island, New Zeland, M= 5.8 SD 1.3 (CGS).
- 28 eiz- PKP 10 21 09, eZ PP 10 23 13, D= 14100 km, USCGS: H= 10 03 03.0, 4.6S, 155.2E, h= 509 km, Solomon Islands. M= 5.6 SD 0.8 (CGS).
- 28 eZ P 10 51 22, USCGS: H= 10 43 01.0, 36.3N, 70.9E, h= 173 km, Hindu Kush region. M= 4.9 SD 1.3 (CGS).
- 28 eZ Pn 10 53 07, eZ Sn 10 54 05, D= 540 km, aftershock of seisms of August 28, 1966 at 04 18.
- 28 eZ (P) 11 44 29, eZ 11 44 43.0, traces.
- 28 iZ- Pn 12 42 21.0, iZ (Pg) 12 42 40.9, iZ Sn 12 43 20.6, iZ Sg 12 43 37.1, iZ Rgl 12 43 47.1, D= 540 km, BCIS: H= 12 41 04, 42.2N, 18.9E, Coast of Yugoslavia. Aftershock of seisms of August 28, at 04 18. M= 3.3 (Beograd). USCGS: H= 12 41 02, 41.8N, 18.7E, h= 33 km, Adriatic Sea.
- 28 eiz PKP 13 40 47.4, USCGS: H= 13 21 14, 18.6S, 175.6W, h= 179 km. Tonga Islands, M= 4.7 SD 0.7 (CGS).
- 30 eZ 01 49 18, eZ 01 49 41, weak.

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- 30 eZ P 12 53 27, USCGS: H= 12 40 27.5, 13.4N, 120. 7E, h= 81 km, Mindoro, Philippine Islands. M= 5.5 SD 0.8 (CGS).
- 30 eZ PKP 13 57 31, USCGS: H= 13 37 39, 17.7S, 173.3W, h= 33 km, Tonga Islands, M= 4.8 SD 0.7 (CGS).
- 30 iZ Pg 15 46 36.0, iZ! Sg 15 46 47.8, iZ 15 46 51.7, F 15 49 10, D= 90 km, no macroseismic reports.
- 30 eZ P or PKP 20 18 42.
- 30 eZ P 20 32 14, eZ PP 20 34 57, D= 7900 km, USCGS: H= 20 20 54.0, 61.3N, 147.5W, h= 36 km. Southern Alaska, Felt at Anchorage, Valdez, Glennallen, Cordova and Kenai. M= 5 3/4 - 6 (PAS), 4.9 - 5.3 (BRK), 5 3/4 (PAL), 5.9 SD 1.0 (CGS).
- 31 Z 18 07 (00), eZ 18 08 32, iZ 18 09 01.8, traces.

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- 1 eZ P or PKP 09 23 43, eZ 09 24 07.
- 1 eZ Pn 12 37 57, eZ 1238 40, eZ 12 39 44, BCIS: H= 12 35 29, (DECM), 38.0N, 24.4E, Aegean Sea, USCGS: H= 12 35 33, 38.1N 22.8E, h= 36 km, Greece, M= 4.7 SD 1.6 (CGS).
- 1 iZ P 14 25 24.8, iZ 14 25 36.4, iZ S 14 27 22.6, iZ 14 27 29.8, iZ Lgl 14 27 54.6, D= 1160 km, BCIS: H= 14 22 54, (DEC M), 37.4N, 22.1E, normal depth. Peloponnesos. Greece. Strongly felt on region of Megalopolis (Press). M= 6.0 (Athens), 5.6 (Collm, Pruhonice), 5 1/2 - 5 1/4 (Strasbourg), ML= 5.4 (Moxa). USCGS: H= 14 22 57.0, 37.5N, 22.1E, h= 17 km, Southern Greece. 20 injured and 1000 homes destroyed in central Peloponnesos region. Felt in Athens. M= 5.3 SD 0.8 (CGS).
- 1 eZ PKP 15 44 52, eZ 15 45 06, USCGS: H= 15 24 59.2, 20.6S, 175.4W, h= 33 km, Tonga Islands, M= 5.2 SD 1.3 (CGS).
- 1 eZ P 19 23 42, BCIS: H= 19 17 56, (DECM), 71 1/2 N, 3 W, Jan Mayen region, ML= 4.3 (Moxa, Pruhonice). USCGS: H= 19 18 00.6, 71.6N, 2.9W, h= 33 km, Jan Mayen Island region, M= 5.2 SD 1.4 (CGS).
- 1 eZ Pn 23 17 58, iZ Pg 23 18 04.0, iZ Sn 23 18 28.4, iZ Sg 23 18 35.6, D= 270 km, BCIS: H= 23 17 27, (DECM), 45.9N, 10.9E, Region of Garda Lake, Italy.
- 1 eZ P 23 30 25, uscgs: H= 23 19 09.8, 61.8N, 149.6W, h= 77 km, Southern Alaska. Felt at Anchorage. M= 5.2 SD 0.9 (CGS).
- 2 eZ P 01 07 08, weak, USCGS: H= 00 54 40.7, 51.0N, 177.9E, h= 14 km, Rat Islands, Aleutian Islands. M= 5.2 SD 0.6 (CGS).
- 2 eZ P or PKP 04 09 54, eZ 04 10 00, weak.
- 2 eZ P 10 49 36, USCGS: H= 10 41 21, 12.9N, 50.9E, h= 33 km, Eastern Gulf of Aden. M= 4.8 SD 1.3 (CGS).
- 2 eZ P 11 19 51, USCGS: H= 11 13 00, 27.7N, 52.4E, h=33 km, Southern Iran, M= 5.0 SD 1.0 (CGS).
- 2 iZ Pn 14 26 10.0, iZ Pg 14 26 29.9, iZ Sn 14 27 09.2, iZ

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- (cont.) Sg 14 27 34.9, D= 540 km, Montenegro, Adriatic coast, BCIS: H= 14 24 55, M= 3.2 (Beograd), aftershock of seisms of August 28, 1966 at 04 18.
- 3 eZ P or PKP 13 19 20.2.
- 3 eZ 17 12 01, eZ 17 12 01, eZ 17 12 26, weak.
- 4 eZ P 01 31 32, BCIS: H= 01 29 29 (DECM), 45.8N, 26.8E, h= 160 km, Vrancea region, Rumania. USCGS: H= 01 29 28, 45.9N, 26.7E, h= 116 km, Rumania. M= 4.2 SD 1.1 (CGS).
- 4 eiZ P 05 48 37.5, USCGS: H= 05 37 49.7, 17.8S, 74.0W, h= 8 km, Off coast of Peru, M= 5.1 SD 1.1 (CGS).
- 4 eZ P 22 27 34, USCGS: H= 22 14 49.0, 4.6N, 74.0W, h= 5 km, Colombia, 6 killed, 40 injured and moderate damage at Bogota, M= 5.2 SD 1.4 (CGS).
- 5 eZ (Pn) 00 12 39, iZ 00 12 54.3, weak.
- 5 eZ Pn 01 47 05, eZ (Sn) 01 48 23, (D=750 km).
- 5 eZ PKP 18 18 01, USCGS: H= 17 58 31.0, 15.9S, 167.4E, h=38 km, New Hebrides Islands. Felt on Espiritu Santo, M= 5.4 SD 07 (CGS).
- 5 eZ 22 36 26, iZ Pg 22 37 17.6, eZ Sn 22 38 19, eZ Sg 22 39 17, D= 1090 km, BCIS: H= 22 34 12 (DECM), 38 1/4N, 21 3/4, Greece. Felt at Patras (Press). USCGS: H= 22 34 14, 38.5N, 21.9E, h= 33 km, Greece. Felt at Patras. M= 4.3 SD 1.9 (CGS).
- 6 iZ P 12 35 03.2, BCIS: H= 12 31 58 (DECM), 36.7N, 26.6E, h= 150 km, Sea of Crete. USCGS: H= 12 31 57.9, 36.7N, 26.6E, h= 161 km, Dodecanese Islands. M= 4.6 SD 1.0 (CGS).
- 6 eiZ- Pn 12 40 23.6, iZ Pg 12 40 45.8, iZ Sn 12 41 23.8, iZ! Sg 12 41 46.9, iZ! 12 41 56.8, D= 540 km, BCIS: H= 12 39 09 (DECM), 42.1N, 19.0E, Coast of Yugoslavia, aftershock of seisms of August 28, 1966 at 04 18. M= 3.8 (Beograd).
- 6 iZ Pn 22 43 31.0 eZ 22 44 16, eZ 22 45 36, BCIS: H= 22 41 02, (DECM), 39.4N, 24.8E, depth normal, Aegean Sea. M= 4.4 (Athens).
- 7 iZ PKP1 16 14 05.0, iZ PKP2 16 14 07.7, USCGS: H= 15 55 11.5 5.1S, 154.7E, Solomon Islands, h= 77 km, M= 5.5 SD 1.0 (CGS)
- 7 iZ Pn 19 15 32.5, eZ (Sn) 19 16 30, iZ 19 16 57.1, (D= 560 km).
- 8 iZP 12 19 12.4, USCGS: H= 12 07 50, 22.5S, 10.7W, h= 33 km. South Atlantic Ridge, M= 5.4 SD 1.1 (CGS).
- 8 eZ P 12 25 49, USCGS: H= 12 18 14.8, 36.4N, 70.2E, h= 223 km, Hindu Kush region. M= 4.9 SD 0.7 (CGS).
- 8 eZ+ P 21 29 49, eZ PP 21 34 10, eZ! 21 34 21, D= 11700 km, USCGS: H= 21 15 52.8, 2.4N, 128.4E, h= 96 km, Halmahera, M= 6 3/4 - 7 (PAS), 6.7 - 7.1 (BRK), 6 3/4 - 7 (PAL), 6.9 SD 1.1 (CGS).
- 8 iZ (PKP) 2137 02.8, Obscured by preceding earthquakes. US CGS: H= 21 17 21.4, 21.7S, 176.3W, h= 80 km, Fiji Islands

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From the ISC collection scanned by SISMOS

- (cont.) region. M= 5.7 SD 0.9 (CGS).
- 8 eiZ P 22 07 52, USCGS: H= 21 55 40.1, 45.4N, 150.5E, h= 32 km, Kurile Islands, M= 5.6 SD 0.6 (CGS).
- 8 eZ PKP1 23 17 03, eiZ PKP2 23 17 08, USCGS: H= 22 58 23.2, 18.0S, 178.4W, h= 592 km, Fiji Islands region, M= 4.3 SD 0.8 (CGS).
- 9 eZ Pn 01 46 13, iZ 01 46 30.7, iZ 01 46 46.7, weak.
- 9 eZ 10 06 35, weak.
- 9 iZ Pn 11 59 03.5, eiZ(Pg) 11 59 17.1, eiZ Sn 11 59 49.2, iZ Sg 12 00 06.3, D= 420 km, BCIS: H= 11 58 04 (DECM), 44.0N, 09.9E, Eastern coast of Liguria, Italy.
- 9 eiZ P 12 17 39, USCGS: H= 12 04 30.9, 04.2S, 102.8E, h= 25 km, Southern Sumatra, M= 5.3 SD 0.7 (CGS).
- 9 eZ Pn 17 06 40, eZ (Sn) 17 07 22, (D= 400 km), very weak.
- 9 eZ P 18 52 01, USCGS: H= 18 39 58.2, 10.8N, 69.5W, h= 12 km, Venezuela. 12 injured and 1/2 of the homes damaged in Churuguara. Felt at Caracas, Coro and Barquisimeto. M= 5.2 - 5.6 (BRK), 5.0 SD 0.8 (CGS).
- 9 eZ P 20 50 18, USCGS: H= 20 42 06.3, 14.7N, 52.3E, h= 28 km, Eastern Gulf of Aden, M= 4.9 SD 1.0 (CGS).
- 10 eZ P 02 39 10, USCGS: H= 02 27 47.7, 46.6N, 144.1E, h= 335 km, Sea of Okhotsk. M= 5.2 SD 0.5 (CGS).
- 10 eZ P 10 14 33, BCIS: H= 10 09 49, 39 1/4N, 41.1/2E, Eastern Anatolia. Strongly felt in region of Hinis. Damage in many villages of this region. (Press).
- 10 eiZ Pn 10 58 20.4, BCIS: H= 10 55 17 (DECM), 36.5N, 26.9E, h= 160 km, Sea of Crete. USCGS: H= 10 55 16.7, 36.5N, 26.9E, h= 144 km, Dodecanese Islands, M= 4.2 SD 0.7 (CGS).
- 11 eiZ P 16 06 00.6, USCGS: H= 15 55 20.0, 27.0N, 95.8E, h=37 km, Burma - India border region, M= 5.0 SD 0.9 (CGS).
- 11 iZ+ P 17 50 14.1, iZpP 17 51 15.5, USCGS: H= 17 38 042, 6.8N, 72.9W, h= 167 km, Northern Colombia. Slight damage at Bogota. Felt at Bucaramanga, Cali and Medellin. M= 5 - 5.4 (BRK), 5.9 SD 0.8 (CGS).
- 11 eZ P or PKP 18 19 45.
- 11 eZ Pn 21 27 07, iZ! (Sn) 21 27 16.3, (D= 80 km).
- 12 eZ Pn 09 39 25, eZ Sn 09 39 52, D= 830 km, BCIS: H= 09 37 39 (DECM), 39 3/4N, 20.0E, Greece.
- 12 eZ- PKP1 1149 20, iZ! PKP2 11 49 27.3, USCGS: H= 11 29 40.3 23.1S, 1706E, h= 49 km, Loyalty Islands region. M= 6 1/2 - 6 3/4 (PAS), 6.4 - 6.7 (BRK), 6 3/4 (PAL). 6.1 SD 1.2 (CGS)
- 12 eZ PKP 12 45 33, USCGS: H= 12 24 17, 22.3S, 171.2E, h= 33 km, Loyalty Islands region.
- 12 eZ PKP 12 59 53, USCGS: H= 12 40 06.3, 23.1S, 1706E, h=33 km, Loyalty Islands region, M= 4.8 SD 1.5 (CGS).

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- 12 eZ PKP 13 13 47, USCGS: H= 12 53 58, 22.9S, 170.6E, h= 33 km, Loyalty Islands region.
- 12 eiZ- PKP 13 34 03, USCGS: H= 13 14 13, 23.0S, 170.4E, h=33 km, Loyalty Islands region, M= 4.2 SD 1.7 (CGS).
- 12 eZ PKP 14 22 43, USCGS: H= 14 02 57, 23.0S, 170.4E, h= 43 km, Loyalty Islands region, M= 4.3 SD 0.8 (CGS).
- 12 iZ PKP 14 25 07.2, USCGS: H= 14 05 21, 22.8S, 170.4E, h=33 km, Loyalty Islands region, M= 4.9 SD 1.8 (CGS).
- 12 eZ PKP 14 30 03, USCGS: H= 14 10 16, 23.1S, 170.5E, h= 33 km, Loyalty Islands region, M= 4.1 SD 0.9 (CGS).
- 12 eZ P or PKP 15 25 47.
- 12 eZ P 16 53 35, eZ 16 57 30, USCGS: H= 16 41 01.7, 39.4N, 120.1W, h= 08 km, Northern California. Damage at Truckee, California and at Carson City and Reno, Nevada, Felt widely. M= 6 1/4 - 6 1/2 (PAS), 6.1(BRK), 5.4 SD 1.4 (CGS).
- 12 eZ P or PKP 21 12 29, eZ 21 13 20, weak.
- 13 eZ P or PKP 00 19 10, weak.
- 13 eZ PKP 00 51 12, USCGS: H= 00 31 30.9, 23.0S, 170.5E, h=31 km, Loyalty Islands region.
- 13 eZ PKP1 01 10 26, iZ PKP2 01 10 32.0, USCGS: H= 00 50 42.8 23.0S, 170.6E, h= 28 km, Loyalty Islands region, M= 5.0 SD 1.2 (CGS).
- 13 eZ PKP 08 04 46, USCGS: H= 07 44 57, 22.9S, 170.7E, h= 33 km, Loyalty Islands region, M= 4.4 SD 1.9 (CGS).
- 13 eZ P 08 55 56, USCGS: H= 08 42 56, 39.5N, 120.1W, h= 33 km, Northern California, M= 3.7 (BRK).
- 13 eZ PKP 09 58 44, eZ 10 00 08, USCGS: H= 09 38 57, 23.1S, 170.6E, h= 33 km, Loyalty Islands region, M= 4.9 SD 1.9 (CGS).
- 13 eZ (P) 20 28 27, USCGS: H= 20 23 51, 38.9N, 40.6E, h= 33km, Turkey, M= 4.5 SD 1.6 (CGS).
- 14 iZ PKP 00 32 15.4, USCGS: H= 00 12 25, 23.1S, 170.7E, h=19 km, Loyalty Islands region. M= 4.8 SD 1.2 (CGS).
- 14 eZ PKP 00 40 47, USCGS: H= 00 21 01.3, 23.2S, 170.6E, h=51 km, Loyalty Islands region. M= 5.0 SD 0.9, (CGS).
- 14 iZ P 00 55 35.5, USCGS: H= 00 47 04, 14.6N, 56.4E, h= 23km, Arabian Sea. M= 5 SD 1.0 (CGS).
- 14 eZ (Sg) 12 35 33, traces.
- 14 iZ Pg 13 16 54.6, iZ Sg 13 16 57.6, D= 22 km.
- 14 eZ PKP 23 37 55, USCGS: H= 23 18 41.6, 60.1S, 27.0W, h= 33 km, South Sandwich Islands region. M= 6.2 SD 0.7 (CGS).
- 15 iZ Pg 00 10 54.2, iZ Sg 00 11 06.6, D= 100 km, BCIS: H= 00 10 41 (DECM), 46 1/4N, 13 1/4E, Julian Alps. Italy.
- 15 eZ Pn 02 04 06, iZ 02 04 32.9, eZ 02 04 42, eZ (Sn) 02 04 58, (D= 600 km).

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- 15 eZ P or PKP 03 53 50.
- 15 eZ PKP 04 27 04, USCGS: H= 04 07 04.8, 23.6N, 175.8W, h=67 km, Tonga Islands region, M= 5.3 SD 1.1 (CGS).
- 15 eZ Pn 04 43 (00), eiZ 04 43 57.0, iZ (Sn) 04 44 18.4, (D= 730 km).
- 15 eZ PKP 08 09 38, USCGS: H= 07 09 38, 23.0 S, 170.5E, h= 33 km, Loyalty Islands region, M= 4.3 SD 1.1 (CGS).
- 15 eZ 11 56 05, eZ 11 56 46, very weak, BCIS: H= 11 50 29 (DECM), 34.6N, 24.1E, Mediterranean Sea, south of Crete. USCGS H= 11 50 29.2, 34.8N, 24.3E, Crete, h= 72 km, M= 4.5 SD 1.9 (CGS).
- 15 eZ PKP1 14 34 04, iZ PKP2 14 34 08.7, USCGS: H= 14 14 19.4, 23.1S, 170.8E, h= 26 km, Loyalty Islands region. M= 5 SD 0.6 (CGS).
- 15 eiZ+ P 17 23 18, eZ PP 17 26 32, D= 9100 km, USCGS: H= 17 10 46.8, 22.8N, 121.4E, h= 47 km, Taiwan region, M= 5.5 SD 0.9 (CGS).
- 15 eZ+ P 17 37 17, USCGS: H= 17 24 45.6, 22.9N, 121.3E, h= 49 km, Taiwan region, M= 4.8 SD 0.9 (CGS).
- From September 15 at 18 12 to September 16, at 05 48 no marked.
- 17 eZ 13 58 13, iZ (Sn) 13 58 27.7, Obscured by microseisms!
- 17 eZ 18 19 35, iZ (Sn) 18 19 57.0, Obscured by microseisms!
- 17 iZ Pn 20 55 07.0, eZ 20 55 56, iZ (Sn) 20 56 07.5, iZ 20 56 37.0, Obscured by microseisms!
- 17 eZ PKP 21 25 11, USCGS: H= 21 05 26.8, 20.7S, 176.3W, h= 220 km, Fiji Islands region, M= 4.6 SD 1.0 (CGS).
- 18 eZ P 14 27 24, USCGS: H= 14 15 57.2, 22.6N, 102.1E, h= 33km, Yunnan Province, China. M= 5.4 SD 1.5 (CGS).
- 18 iZ+ P 20 50 57.2, eiZ 20 53 22, eZ S, 20 57 07, D= 4440 km, BCIS: H= 2043 58 (DECM), 27.8N, 54.3E, h= 50 km, Lar region, Central Iran, M= 5.8 (Moxa), ML= 4.9 (Pruhonic). USCGS S: H= 20 43 53.3, 27.8N, 54.3E, h= 16 km, Southern Iran M= 6.2 SD 0.2 (CGS).
- 19 eiZ PKP 07 21 04, USCGS: H= 07 02 12.8, 20.7S, 178.4W, h= 580 km, Fiji Islands region. M= 5.3 SD 0.6 (CGS).
- 19 iZ Pg 11 12 34.6, iZ Sg 11 12 41.4, D= 56 km, weak.
- 22 eZ PKP 21 55 05, USCGS: H= 21 35 09, 17.0S, 172.8W, h= 10 km, Samoa Islands region, M= 4.4 SD 1.2 (CGS).
- 23 eZ (P) 20 44 32, eZ (S) 20 47 16, weak, D= 1670 km, BCIS: H= 20 40 51 (DECM), 34.0N, 26 1/4E, Mediterranean Sea, south of Crete, USCGS: H= 20 40 59, 34.2N, 27.2E, h= 178 km, Mediterranean Sea.
- 23 eZ Pn 23 50 06, eZ 23 50 42, eZ Sn 23 51 48, USCGS: H= 23 48 03, 38.6N, 22.1E, h= 88 km, Greece, M= 4.4 SD 1.4 (CGS).

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- 24 eZ 01 50 49, eZ 01 51 18, traces.
- 24 eiZ P 10 07 52, eZ PP 10 09 20, eZ S 10 13 58, D= 4440 km, USCGS: H= 10 00 46.4, 27.4N, 54.5E, h= 33 km, Southern Iran, M= 5.4 SD 0.7 (CGS).
- 24 eiZ PKP 17 08 07, USCGS: H= 16 48 31.7, 22.4S, 171.6E, h= 127 km, Loyalty Islands region, M= 5.1, SD 0.7 (CGS).
- 24 eZ Pn 20 23 33, eZ Sn 20 25 16, D= 1000 km, BCIS: H= 20 21 18 (DECM), 38.2N, 22.2E, h= 60 km, Greece, near Gulf of Corinth. M= 3.5 (Athens). USCGS: H= 20 21 20, 38.1N, 22.5E, h= 102 km, M= 4.1 SD 1.7 (CGS).
- 25 eZ+ P 06 15 36.9, 18.3N, 100.8W, h= 60 km, Guerrero Mexico, Slight damage at Altamirano. M= 4.7 - 5.1 (BRK), 6.1 SD 0.9 (CGS).
- 25 eZ PKP 06 52 45, USCGS: H= 06 33 18, 21.4S, 170.4E, h= 179 km, Loyalty Islands region. M= 4.7 SD 0.9 (CGS).
- 25 eZ PKP 08 55 56, iZ 08 56 04.3, USCGS: H= 08 36 19.4, 22.9 S, 170.5E, h= 33 km, Loyalty Islands region. M= 4.9 SD 1.3 (CGS).
- 26 eZ+ P 05 21 22, USCGS: H= 05 10 58.1, 27.5N, 92.6E, h= 33 km, India- China border region, M= 5.6 SD 1.0 (CGS).
- 26 eZ PKP 06 29 45, USCGS: H= 06 10 08, 16.0S, 175.7W, h= 145 km, Tonga Islands, M= 4.7 SD 0.9 (CGS).
- 26 eZ Pn 09 29 51, eZ 09 31 28, D = 930 km.
- 26 Z P or PKP 19 52 (00).
- 27 eZ (Sn) 03 54 48, eZ 03 55 11, weak.
- 27 eZ 10 59 59, eZ (Sn) 11 00 08, USCGS: H= 10 54 50, 36.9N, 24.1E, h= 22 km, Southern Greece, M= 4.6 SD 0.6 (CGS).
- 27 eZ 22 07 58, eZ (Sn) 22 08 51, traces.
- 28 eiZ Pn 11 55 34, iZ Pg 11 55 43.8, iZ Sn 11 56 12.7, D= 360 km.
- 28 eZ P 14 11 19, iZ! 14 11 23.1, eZ S 14 20 15, D= 7550 km, USCGS: H= 14 00 22.9, 27.4N, 100.1E, h= 33 km, Yunnan Province, China, M= 6.2 SD 1.2 (CGS).
- 28 eZ Pn 14 59 42, eZ Sn 15 00 20, D= 360 km, weak.
- 29 eZ PKP 03 03 40, iZ! 03 03 47.6, eZ pPKP 03 04 45, USCGS: H= 02 44 19.0, 19.9S, 176.2W, h= 246 km, Fiji Islands region, M= 5.5 SD 0.9 (CGS).
- 29 eiZ 05 33 22, weak.
- 29 iZ (Pn) 09 51 24.6, Z Sn 09 52 (00), (D = 330 km).
- 29 iZ Pn 10 56 23.3, eZ (Sn) 10 56 57.
- 29 eiZ (Pg) 14 37 13.0, eZ Sn 14 37 38, eZ 14 37 50.
- 29 eZ Pn 15 47 38, iZ (Sn) 15 48 12.1, iZ Sg 15 48 22.3, (D= 310 km).
- 30 eZ 02 43 21, eZ (Sn) 02 44 29, eZ 02 43 58, traces.

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- 30 Z 06 07 (00), BCIS: H= 05 59 48 (DECM), 38.9N, 64.5E, Uzbekh S.S.R. M= 5.8 (Uppsala).
- 30 eiZ PKP 15 48 35, USCGS: H= 15 29 55, 17.9S, 178.8W, h=664 km, Fiji Islands region. M= 4.0 SD 0.6 (CGS).

Ljubljana, October 12, 1967

M. Hržič-Knafeljc

25 MAR 1968

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

X — XII 1966

Ljubljana 1968

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

1966

PRELIMINARY SEISMOLOGICAL BULLETIN
 from October 1 to December 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, registration speed: 16-18 mm/min.

Constants (December 14, 1966):

Component	T_0	$v:1$	r/T_0^2	V
N-S	5,0	1,25	0,0037	72
E-W	4,9	2,40	0,0054	70

Hiller-Stuttgart, vertical component Z with galvanometrical
 recording; $T_0=1.5$ sec, $T_g=1,5$ sec, $D_1=D_2=1$, $V_{max} =$
 $10.150 x$, registration speed: 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 of ground towards south or west. All times are given
 in GMT. Time signals are received one or two times daily and
 are registered on a chronograph. Wherever possible 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: Determi-
 nation was made by electronic computer.

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- 2 $iZ= P 11 23 45.9$, $eZ S 11 26 30$, $D=1550$ km, BCIS= 11 21
 45 (DECM), 45.8 N, 26.7 E, $h=140$ km, Romania, region of
 Vrancea. $M_L=4.2$ (Pruhonic), USCGS: $H= 11 21 44.9, 45.7 N$,
 26.5 E, Romania, $h=140$ km, $M=5.3$ SD 0.9 (CGS).
- 2 $eZ PKP 20 01 40$, USCGS: $H=19 42 10$, 53.7 S, 140.1 E, $h=$
 57 km, West of Macquarie Island, $M=5.2$ SD 1.8 (CGS).
- 3 $eZ(P) 06 05 43$, $eZ 06 06 12$, traces.

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- 3 eZ (Pn) 08 48 (00), eZ 08 48 56, weak.
- 3 iZ Pg 16 30 08.7, iZ Sg 16 30 11,8, local, very weak, D=22 km.
- 3 eZ Pn 20 28 03, eZ 20 28 22, BCIS: H= 20 27,5, Wien: 47.4 N, 13.5 E, Austria, felt 3-4 MCS in the region of Radstadt.
- 4 eZ PKP 02 03 50, USCGS: H= 01 44 31.1, 11.1 S, 162.3 E, Solomon Islands, h=33 km, M=5.4 SD 1.3 (CGS).
- 4 eZ Pn 04 52 57, weak, iZ 04 53 25.7, eZ (Sn) 04 54 14.
- 4 eZ PKP 16 19 07, traces, USCGS: H= 15 59 23, 53.7 S, 140.5 E, West of Macquarie Island, h=43 km.
- 4 eZ P or PKP 21 55 46, weak.
- 5 eZ P 08 43 16, eZ! 08 43 24, eZ PP 08 45 11, D=6.100 km, USCGS: H= 08 34 40.6, 0.1 N, 30.0 E, h=33 km, Republic of Congo, M=5.4 SD 0.5 (CGS).
- 6 eZ Pg 14 22 55, weak, iZ Sg 14 23 10.6, D=130 km.
- 7 iZ P or PKP 13 47 54.7, weak.
- 7 eZ Pg 14 05 56, eZ (Sn) 14 06 32, München: Explosion Eschenlohe, 47° 36' N, 11° 11' E.
- 7 eZ+ PKP 16 14 35, iZ! PKP₂ 16 14 40.6, USCGS: H= 15 55 10.8, 21.6 S, 170.5 E, h=161 km, Loyalty Islands region, M= 6 3/4 (PAS), 6 (BRK), 6.4 SD 0.8 (CGS).
- 7 eiZ- P 21 07 14.5, eZ PP 21 09 45, D=7.200 km, USCGS: H= 20 55 56.0, 61.6 N, 150.1 W, h=56 km, Southern Alaska, felt at Anchorage, Valdez and Kanai, M=5.7 SD 0.9 (CGS).
- 8 Z PKP 00 32 (00), eZ PP 00 36 26, D=17.500 km, USCGS: H= 00 12 18.1, 16.4 S, 177.6 W, h=33 km, Fiji Islands region, M=6.6-6.9 (BRK), 5.7 SD 1.5 (CGS).
- 8 eZ PKP₁ 02 41 06.7, iZ PKP₂ 02 41 25.7, eZ 02 42 06, USCGS: H= 02 21 56.4, 19.4 S, 175.4 W, h=241 km, Tonga Islands, M=5.0 SD 0.6 (CGS).
- 8 eZ PKP 02 53 57, iZ 02 54 04.0, USCGS: H= 02 34 16, 1, 16.5 S, 177.5 W, h=57 km, Fiji Islands region, M=4.9 SD 0.9 (CGS).
- 8 eZ PKP 15 02 51, USCGS: H= 14 43 53.9, 15.6 S, 177.8 W, Fiji Islands region, M=4.8 SD 0.9 (CGS).
- 9 eiZ+ PKP 02 25 11, eiZ pPKP 02 26 07, USCGS: H= 02 06 35, 17.8 S, 178.2 W, h=639 km, Fiji Islands region, M=4.8 SD 0.7 (CGS).
- 9 eZ P 06 55 10, eZ 06 57 14, BCIS: H= 06 48 40 (DECM), 12.9 N, 30.7 E, Sudan, epicenter inhabitable, M₁=5.7 (Moxa), USCGS: H= 06 48 40.3, 12.6 N, 30.8 E, Sudan, minor damage reported, h=11 km, M=5.1 SD 1.3 (CGS).
- 9 eZ P or PKP 10 45 13, eZ 10 45 38, obscured by microseisms.

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- 11 eZ P or PKP 00 19 09.
- 11 iZ Pn 02 57 04.5, iZ Pb 02 57 10.1, iZ Pg 02 57 25.6, Z Sn 02 58 (00), iZ Sb 02 58 10.0, iZ Sg 02 58 27.1, D=510 km.
- 11 iZ Pn 03 30 30.6, iZ Sn 03 30 50.8, D=180 km, BCIS: H= 03 30 00, Wien-Kobenzl: 47.4 N, 13.5 E, Austria, region of Radstadt.
- 11 eZ (PKP) 06 44 21, USCGS: H= 06 25 55.1, 60.3 S, 26.0 W, h=37 km, South of Sandwich Islands region, M=5.9 SD 0.8 (CGS).
- 12 eZ PP 00 25 11, eZ PKP 00 25 41, D=12.200 km, USCGS: H=00 06 37.8, 11.9 S, 121.8 E, h=33 km, South of Timor, M=5.7 SD 1.6 (CGS).
- 12 eZ PKP 04 42 22, obscured by microseisms, USCGS: H= 04 22 14, 0, 31.2 S, 177.8 W, Kermadec Islands, h=14 km, M=4.5-4.9 (BRK), 5.2 SD 1.2 (CGS).
- 13 eZ P or PKP 11 56 21, very weak.
- 13 eiZ Pn 12 55 08.6, eZ Sn 12 55 49, D=370 km.
- 13 eZ P or PKP 18 55 45, eZ 18 56 50.
- 14 eZ P 01 14 07, USCGS: H= 01 04 43.3, 36.4 N, 87.5 E, h=24 km, Southern Sinkiang Province, China, M=5.2 SD 1.0 (CGS).
- 14 eZ (P) 02 00 46, weak, USCGS: H= 01 49 28.0, 19.2 N, 67.9 W, h=43 km, Mona Passage, M=4.6 SD 0.7 (CGS).
- 14 eZ PKP 02 52 19, USCGS: H= 02 32 32, 15.1 S, 173.5 W, h=33 km, Tonga Islands, M=4.8 SD 0.8 (CGS).
- 14 eZ Pn 14 13 20, eZ Sn 04 14 31, eiZ 04 15 13, D=690 km.
- 14 iZ Pn 13 00 27.0, iZ Pg 13 00 48.3, eZ (Sn) 13 01 22, (D=510 km).
- 14 iZ Pn 14 00 27.4, iZ Pg 14 00 49.8, eZ (Sn) 14 01 22, (D=510 km).
- 14 iZ Pn 15 45 28.0, eZ (Sn) 15 46 19, (D=465 km).
- 14 eZ Pn 16 47 27, iZ Pg 16 47 48.5, eZ (Sn) 16 48 20, (D=480 km).
- 14 eZ Pn 17 42 48, eZ 17 43 21, eZ 17 44 05.
- 14 eZ Pn 17 45 26, iZ Pg 17 45 48.2, eZ (Sn) 17 46 20, (D=510 km).
- 14 eZ Pn 18 45 27, iZ Pg 18 45 49.3, eZ Sn 18 46 22, D=510 km.
- 14 eiZ Pn 19 19 25, iZ Pg 19 19 46.9, eZ (Sn) 19 20 17, (D=480 km).
- 14 eZ Pn 20 08 25, iZ Pg 20 08 44.5, eZ (Sn) 20 09 13, (D=480 km).
- 14 eZ Pn 21 12 26, eZ (Sn) 21 13 04, (D=340 km).

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- 14 eiZ Pn 15 39 20.3, iZ 15 39 41.3, traces.
- 14 iZ Pg 18 49 36.6, iZ Sg 18 49 39.5, D=22 km. Not felt.
- 15 eZ-Pn 07 01 18, eZ 07 01 38, eiZ 07 01 17.2, BCIS: H=06 59 19 (DECM), 45.6 N, 26.5 E, h=170 km, Region of Vrancea, Romania, USCGS: H= 06 59 16.9, 45.7 N, 26.3 E, h=120 km, Romania, M=4.8 SD 1.3 (CGS).
- 15 eZ PKP 08 49 33, eZ 08 49 38, USCGS: H= 08 30 51.3, 18.0 S, 178.4 W, h=576 km, Fiji Islands region, M=4.8 SD 0.7 (CGS).
- 16 eZ Pn 09 49 26, iZ Pg 09 49 42.8, iZ Sn 09 50 18.9, iZ Sg 09 50 42.9, BCIS: H= 09 48 29, 42 1/2 N, 13 1/4 E, Abruzzi, Italia, D=510 km.
- 17 eZ (PKP) 10 35 00.4, obscured by microseisms, USCGS: H= 10 15 40.6, 11.0 S, 166.7 E, h=55 km, Santa Cruz Islands. M=5 3/4 (PAS), 4.6-5.0 (BRK), 5.5 SD 0.7 (CGS).
- 17 eZ PKP₁ 18 38 44, eiZ PKP₂ 18 38 56, USCGS: H=18 20 07.8, 22.3 S, 179.1 E, h=635 km, South of Fiji Islands, M=5.0 SD 0.9 (CGS).
- 17 eZNE P 21 55 39, eZ! 21 55 43, iZ! PP 21 59 46.8, eNE S 22 06 23, D=11.400 km, USCGS: H= 21 41 56.3, 10.7 S, 78.7 W, h=38 km, Near coast of Peru. About 125 killed, over 3000 injured and major property damage. Tsunami of 11.3 feet at La Punta, Peru and of 1.6 feet at Valparaiso, Chile. M=7 1/2 (PAS), 7.5 (BRK).
- 18 eZ 21 04 58, weak, eZ Sn 21 05 18.
- 18 eZ 22 19 03, eZ Sn 22 20 36.
- 18 eZ PKP 22 47 07, USCGS: H= 22 27 29.0, 15.2 S, 174.0 W, h= 62 km, Tonga Islands. M=5.5 SD 0.6 (CGS).
- 19 eiZ+ P 04 05 49, eZ- PP 04 06 45, D=3.400 km, BCIS: H=03 58 00, 50.0 N, 78.0 E, Kazakhstan, region of Semipalatinsk, M=6.1 (Uppsala), USCGS: H= 03 57 57.7, 49.7 N, 78.0 E, h=0 km, Eastern Kazakh SSR, M=4.6-5.0 (BRK), 5.6 SD 0.9 (CGS).
- 19 iZ+ P 08 10 58.1, eNE 08 11 (00), eZ PP 08 13 20, eNE S 08 18 39, eNE M 08 32 (00), D=5.100 km, USCGS: H= 08 01 33.8, 1.6 S, 15.5 W, h=33 km, North of Ascension Island, M=6 3/4 (PAS), 6 3/4 (CGS, surface waves).
- 19 eZ (PKP) 11 41 03, eZ 11 41 08, USCGS: H= 11 22 14.7, 12.6 S, 167.2 E, h=218 km, Santa Cruz Islands, M=5.1 SD 0.7 (CGS).
- 19 eZ(P) 19 48 23, eZ 19 49 10, obscured by microseisms, USCGS: H= 19 36 25, 51.2 N, 159.1 E, h=34 km, Off east coast of Kamchatka, M=4.6 SD 1.1 (CGS).
- 20 eZ 01 02 21, eiZ 01 02 33.5, obscured by microseisms, USCGS: H= 00 53 38.7, 33.6 N, 78.5 E, h= 27 km, Kashmir-Tibet border region. M=5.0 SD 0.8 (CGS).

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- 20 iZ Pn 04 59 27.9, iZ X 04 59 36.3, iZ Pg 04 59 42.9, eiZ Sn 05 00 11, iZ Sg 05 00 29.7, iZ! Lg₁ 05 00 34.0, D=400 km, BCIS: H= 04 58 24 (DECM), 43 1/4 N, 17 3/4 E, Ljubljana: Yugoslavia, region of Mostar, Hercegovina; Sarajevo felt 4^o MCS.
- 20 iZ Pn 09 39 14.6, iZ 09 39 19.5, iZ 09 39 21.1, iZ! Sg 09 39 23.7, iZ Sn 09 39 50.5, iZ Sg 09 40 03.9, D=320 km, BCIS: H= 09 38 34 (DECM), 44^o 0 N, 12^o 2 E, Etruscan Appenins, Italy, Roma: felt in Sario valley. USCGS: H= 09 38 34, 44.2 N, 12.0 E, h=33 km, Northern Italy. Felt in Sario valley. M=4.4 SD 0.9 (CGS).
- 20 eZ PKP₁ 13 55 04, iZ PKP₂ 13 55 07.6, USCGS: H= 13 35 50.5, 15.5 S, 167.7 E, h=139 km, New Hebrides Islands. M=4.8 SD 0.5 (CGS).
- 21 eZ Pn 12 25 34, iZ Sn 12 26 15.0, D=370 km.
- 21 eiZ Pn 16 19 05.1, iZ 16 20 57.8, eiZ 16 21 22, BCIS: H= 16 17 03, (DECM), 39.6 N, 22.2 E, Greece. M=4.0 (Athens), USCGS: H= 16 17 02, 39.6 N, 22.1 E, h=33 km, Greece, M=4.7 SD 1.7 (CGS).
- 21 eZ 23 51 34, eZ Sn 23 52 54, very weak.
- 22 eiZ- P 03 14 10.6, USCGS: H= 03 03 23.5, 23.1 N, 94.4 E, h=68 km, Burma-India border region. M=5.3 SD 0.6 (CGS).
- 22 eZ Pn 05 40 15, iZ Pg 05 40 47.6, eZ Sn 05 41 38, D=790 km, BCIS: H= 05 38 24 (DECM), 41.9 N, 23.2 E, Sofia: Krupnik 41^o 48' N, 23^o 07' E, Yugoslavia-Bulgaria border region. USCGS: H= 05 38 22.1, 41.9 N, 23.2 E, h=7 km, Greece-Bulgaria border region. M=4.6 SD 1.2 (CGS).
- 22 eZ Pn 11 18 26, weak, eZ (Sn) 11 19 11, (D=410 km).
- 22 eiZ- P 12 58 57, USCGS: H= 12 47 18.2, 55.2 N, 162.0 E, h=59 km, Near east coast of Kamchatka. M=5.4 SD 0.6 (CGS).
- 22 eZ Pn 17 56 41, very weak, eZ (Sn) 17 57 23, (D=380 km).
- 23 eZ P 07 21 20, USCGS: H= 07 09 20.9, 51.0 N, 159.2 E, h= 38 km, Off east coast of Kamchatka, M=5.2 SD 0.5 (CGS).
- 23 eZ P 12 27 16, USCGS: H= 12 15 17.8, 51.1 N, 159.2 E, h= 33 km, Off east coast of Kamchatka, M=4.8 SD 1.0 (CGS).
- 24 iZ- P 14 38 03.4, BCIS: H= 14 31 12 (DECM), 37^o 3/4 N, 59^o 3/4 E, Iran-Turkmenia border region. Mashad: felt in Mashad. USCGS: H= 14 31 21, 37.7 N, 59.0 E, h=33 km, Iran-USSR border region.
- 25 eZ P 18 16 37, USCGS: H= 18 04 11.8, 36.8 N, 138.2 E, h=28 km, Honshu, Japan, M=5.2 SD 0.8 (CGS).
- 26 iZ+ PKP₁ 18 48 27.0, iZ PKP₂ 18 48 45.4, USCGS: H= 18 28 54.1, 18.4 S, 167.6 E, h=36 km, New Hebrides Islands, felt at Port Vila. M=5-5.4 (BRK), 5.6 SD 0.9 (CGS).
- 27 eiZ+ !! P 06 04 36.0, log A/T=3.1, eiZ 06 05 30, iZ PP

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- 27 (cont.) 06 05 41.4, iZ 06 06 29.0, eZ (S) 06 11 03, D=3.770 km, BCIS: H= 05 58 00 (DECM), 73.5 N, 53.5 E, Novaya Zemlya, probably artificial seism. $M_{PV}=6.6$, $M_{PH}=6.3$, $M_{SH}=6.2$ (Collm), $M_L=6.0$ (Moxa, Strasbourg). $M_L=5.9$ (Pruhonice), USCGS: H= 05 57 58.0, 73.4 N, 54.8 E, $h=0$ km, $M=5.8-6.0$ (BRK), 5-51/4 (PAL), 6.3 SD 0.8 (CGS).
- 27 eZ P 14 34 43, USCGS: H= 14 21 04.8, 22.2 N, 145.9 E, $h=29$ km, North Pacific Ocean. $M=6-6\ 1/4$ (PAS), 5.8-6.2 (BRK), 6.0 SD 0.8 (CGS).
- 28 eZ Pn 15 44 22, eZ 15 44 47, eZ (Sn) 15 45 58, D=910 km.
- 28 eiZ PKP 22 31 28, USCGS: H=22 11 47.6, 20.1 S, 168.8 E, $h=19$ km, Loyalty Islands, $M=4.8-5.2$ (BRK), 5.3 SD 1.4 (CGS).
- 28 eZ PKP 23 44 03, USCGS: H= 23 24 14.5, 22.5 S, 170.9 E, $h=25$ km, Loyalty Islands region. $M=4.9$ SD 1.4 (CGS).
- 29 iZ- P 02 41 32.3, eiNE P 02 41 33.0, iZ S 02 43 14.6, eiNE S 02 43 15, iE Lg 02 44 18, iN 02 44 25, D=980 km, BCIS: H= 02 39 25 (DECM), 38.9 N, 21.0 E, Greece, important damage in the region of Katouna ($38^{\circ}47' N$, $21^{\circ}07' E$), $M=5\ 3/4-6$ (Strasbourg), 5.8 (Athens, Uppsala), 5.8 (Moxa, Pruhonice), $M_p=5\ 3/4$ (Bensberg), $M_L=5.7$ (Collm). USCGS: H= 02 39 29.4, 39.2 N, 21.2 E, $h=20$ km, Greece. One killed, 23 injured and major property damage. $M=5.7$ SD 0.7 (CGS).
- 29 eiZ Pn 17 53 06, obscured by microseisms, iZ (Sn) 17 54 40.4, (D=900 km), USCGS: H= 17 51 02, 38.9 N, 20.8 E, $h=33$ km, Greece, $M=4.6$ SD 1.1 (CGS).
- 30 iZ P 02 12 21.8, iZ S 02 14 02.9, D=980 km, BCIS: H= 02 10 15 (DECM), 38.8 N, 21.6 E, Greece, Kremasta region. $M_L=4.3$ (Athens).

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- 1 eZ Pn 01 30 15, weak, iZ 01 30 44.4, iZ 01 30 15.2,
- 2 eZ 16 45 13, iZ (Sn) 16 45 55.0, traces.
- 2 eZ 20 12 27, eiZ 20 13 20, eZ (Sn) 20 13 39, traces.
- 3 eiZ P 16 35 51.6, USCGS: H= 16 24 31.0, 19.2 N, 67.9 W, $h=22$ km, Mona Passage, felt at Cayey and Caguas, Puerto Rico. $M=6.0-6\ 1/4$ (PAS), 5 1/4 (PAL), 5.6 SD 0.9 (CGS).
- 3 eiZ P 21 52 26, USCGS: H= 21 43 10.7, 6.5 N, 60.5 E, $h=33$ km, Carlsberg Ridge, $M=4.8$ SD 1.2 (CGS).
- 4 Z Pn 17 34 (00), iZ (Sn) 17 34 34.3, (D=290 km), BCIS: H= 17 33 16 (DECM), 47.4 N, 11.4 E, Wien: 47.2 N, 11.3 E, Austria, felt in Tyrol, 3-4^o MCS in Solbad Hall ($47^{\circ}17' N$, $11^{\circ}30' E$).
- 5 iZ PKP 02 49 55.4, USCGS: H= 02 30 15.0, 19.2 S, 169.2 E, $h=29$ km, New Hebrides Islands. Felt in Tanna and Port Vila. $M=5.3$ SD 1.8 (CGS).

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- 6 eiZ PKP 13 04 59, USCGS: H= 12 45 13.9, 15.3 S, 175.2 W, $h=38$ km, Tonga Islands, $M=6-6\ 1/4$ (PAS), 5.3 SD 0.5 (CGS).
- 6 iZ Pn 18 52 (59), iZ Pg 18 53 20.6, iZ Sn 18 54 02.2, iZ Sg 18 54 30.9, iZ Lg₁ 18 54 41.7, D=580 km, BCIS: H= 18 51 45 (DECM), 42.2 N, 19.1 E, Albania-Yugoslavia border region. $M=3.8$ (BEO), $I_0=5^{\circ}$ MCS, felt 4^o MCS in Titograd, Montenegro. USCGS: H= 18 51 44.1, 42.1 N, 19.0 E, $h=34$ km, Yugoslavia. Felt: Bar and Titograd. $M=4.4$ SD 1.3 (CGS).
- 7 eZ PKP 17 57 22, USCGS: H= 17 37 41.2, 15.1 S, 173.6 W, $h=45$ km, Tonga Islands, $M=5.0$ SD 0.5 (CGS).
From November 8 at 03^h 30^m to November 8 at 05^h 30^m no recording.
- 8 eZ Pn 14 24 15.5, iZ 14 24 28.3, eiZ Sn 14 25 01.7, iZ 14 25 13.1, D=510 km, BCIS: H= 14 23 10 (DECM), 43 3/4 N, 19 3/4 E, Yugoslavia, south of Beograd. $M=4.0$ (BEO).
- 8 eZ 23 03 17, traces, iZ Sg 23 03 22.6.
- 9 eiZ Pn 15 14 21.8, iZ 15 14 29.3, Z 15 16 (00), F 15 22 -; BCIS: H=15 12 27 (DECM), 39.1 N, 20.4 E, USCGS: H= 15 12 27, 39.2 N, 20.6 E, $h=30$ km, Greece-Albania border region, $M=5.2$ SD 1.8 (CGS).
- 9 eZ Pn 19 30 31, eiZ (Sn) 19 30 50, (D=160 km).
- 10 eZ PKP 03 21 08, eZ 03 21 38, USCGS: H= 03 02 32.5, 31.9 S, 68.4 W, $h=113$ km, San Juan Province, Argentina. Felt at San Juan and Mendoza. $M=6.0$ SD 0.8 (CGS).
- 11 eZ PKP 10 07 06, USCGS: H= 09 47 36.7, 18.8 S, 168.9 E, $h=81$ km, New Hebrides Islands. Felt at Port Vila. $M=4.9$ SD 1.2 (CGS).
- 11 iZ Pn 12 49 45.1, iZ Pg 12 49 49.0, iZ Sg 12 50 14.5, D=220 km, BCIS: H= 12 49 12 (DECM), 45.5 N, 11.6 E, Northern Italy.
- 11 eiZ P 15 43 24, USCGS: H= 15 31 04.2, 52.3 N, 169.1 W, $h=38$ km, Fox Islands, Aleutian Islands. $M=5.4$ SD 0.8 (CGS).
- 11 eiZ P 16 15 24, USCGS: H= 16 03 38.5, 50.3 N, 155.5 E, $h=145$ km, Kurile Islands. $M=4.9$ SD 0.6 (CGS).
- 11 iZNE Pg 16 16 35.6, iZNE Sg 16 16 52.7, D=140 km, BCIS: H= 16 16 15 (DECM), 45.5 N, 15.9 E, Croatia, Yugoslavia. Felt 6^o in Topusko and Glina (Zagreb), slight damage (press). USCGS: H= 16 16 13.7, 45.6 N, 15.8 E, $h=19$ km, Yugoslavia, slight damage at Topusko and Glina. $M=5.0$ SD 1.8 (CGS).
- 11 eZ Pn 17 24 12, eZ (Sn) 17 24 56, (D=400 km), obscured by microseisms.
- 12 Z P 13 02 (00), USCGS: H= 12 49 43.6, 41.8 N, 144.1 E, $h=33$ km, Hokkaido, Japan region. $M=5.8$ SD 0.8 (CGS).
- 12 eiZ PKP 19 04 27, eiZ PP 19 08 11, D=16.600 km, USCGS: H= 18 45 01.0, 15.6 S, 167.3 E, $h=40$ km, New Hebrides Islands, $M=6.4-6.6$ (BRK), 5.2 SD 0.8 (CGS).

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- 12 eZ Pn 22 15 19, iZ (Sn) 22 15 49.3, iZ 22 15 52.2, (D=270 km).
- 13 eiZ P 03 02 48, USCGS: H= 02 51 50.6, 17.1 N, 61.9 W, h=65 km, Leeward Islands. Felt in Antigua, Guadeloupe and Montserrat. M=5.5 SD 0.9 (CGS).
- 13 eZ Pn 04 43 41, iZ 04 43 51.6, iZ 04 43 57.8.
- 13 eZ Pn 06 36 31, weak, iZ (Sn) 06 36 47.5, iZ 06 36 50.1.
- 14 eiZ 16 31 21, weak, iZ (Sn) 16 31 33.3.
- 14 eiZ Pg 22 13 40.5, iZ Sg 22 13 56.1, D=127 km.
- 16 eZ PKP 06 18 21, USCGS: H= 05 58 30, 19.5 S, 176.3 E, h=48 km, Fiji Islands region. M=5.0 SD 0.4.
- 16 iZ Pg 07 00 27.6, iZ Sg 07 00 30.7, D=22 km, not felt.
- 19 eiZ Pn 07 15 38.0, iZ 07 16 02.8, iZ (Sn) 07 18 03.8, eZ 07 20 26, D=1.440 km, BCIS: H= 07 12 39 (DECM), 34.9 N, 23.7 E, Mediterranean Sea, southwest of Crete. M=5 1/2 - 5 3/4 (Strasbourg), M_s=5.4 (Collm), M_p=5.3 (Bensberg, Collm), M_L=5.1 (Moxa), M_S=5.1 (Collm). USCGS: H= 07 12 39.7, 25.0 N, 23.5 E, h=33 km, Crete. M=5.3 SD 1.2 (CGS).
- 19 eiZ P 07 53 40.5, USCGS: H= 07 42 28.2, 18.4 N, 95.3 E, h=56 km, Burma. M=5.4 SD 0.4 (CGS).
- 22 eZ 06 18 15, traces, iZ 06 18 31.2, iZ 06 19 07.5.
- 22 Z P 06 41 (00), USCGS: H= 06 29 53.5, 48.2 N, 146.7 E, h=453 km, Sea of Okhotsk, M=6 1/4-6 1/2 (PAS), 6.2 (BRK), 5.6 SD 0.5 (CGS).
- 23 eZ PKP 02 38 35, iZ 02 38 39.9, eZ PP 02 42 15, D=16.400 km, USCGS: H= 02 19 13.8, 14.9 S, 166.9 E, h=48 km, New Hebrides Islands. M=5 3/4-6 (PAS), 5.5-5.9 (BRK), 5.6 SD 1.0 (CGS).
- 24 iZ Pg 13 48 29.8, weak, iZ Sg 13 48 31.0, D=10 km. Local earthquake, Ljubljana. Not felt.
- 27 eZ P 06 06 29, iZ 06 08 06.2, eZ (Sn) 06 09 04, eZ 06 09 50.
- 27 eiZ- P 20 19 34, iZ 20 19 45.2, BCIS: H= 20 12 56 (DECM), 78 1/2 N, 4 1/2 E, Arctic Ocean, west of Spitzbergen. USCGS: H= 20 13 01.5, 78.5 N, 06.4 E, h=33 km, Svalbard region. M=5.6 SD 0.8 (CGS).
- 29 iZ P or PKP 09 19 14.1.
- 30 eZ Pn 20 34 45, iZ 20 35 10.3, eZ 20 36 14.

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- 1 Z PKP₁ 05 15 (00), iZ! PKP₂ 05 15 10.7, USCGS: H= 04 56 58.2, 14.0 S, 167.1 E, h=132 km, New Hebrides Islands, felt. M=6 3/4 (PAS), 6.4-6.6 (BRK), 6.1 SD 0.5 (CGS).
- 2 iZ Pg 00 32 12.2, iZ Sg 00 32 14.7, D=18 km, Ljubljana, not felt.

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- 2 eZ P 03 14 40, BCIS: H= 03 07 52 (DECM), 28.4 N, 53.8 E, Southern Iran. USCGS: H= 03 07 54.0, 28.2 N, 53.2 E, h=40 km, Southern Iran, M=5.2 SD 1.1 (CGS).
- 2 eZ Pn 09 08 38, obscured by microseisms, iZ 09 08 43.8, eiZ 09 09 00.0
- 6 eZ (Pn) 01 25 06, obscured by microseisms, iZ 01 25 11.0, iZ (Sn) 01 25 55.5, (D=470 km).
- 6 iZ Pg 23 43 09.1, iZ Sg 23 43 11.6, (D=18 km).
- 7 iZ P 17 30 03.4, USCGS: H= 17 17 42.0, 44.3 N, 151.7 E, h=26 km, Kurile Islands region. M=5.8 SD 0.5 (CGS).
- 8 eiZ Pn 04 43 24, eZ 04 43 48, obscured by microseisms.
- 8 iZ Pn 11 32 35.2, iZ Pg 11 32 47.0, eNE 11 33 23.5, iZ Sn 11 33 35.6, iZ Sg 11 34 04.3, eNE 11 34 07, D=560 km, BCIS: H= 11 31 19 (DECM), 42.1 N, 18.8 E, Adriatic Sea, near coast of Yugoslavia. Press: some damage in Buljarica and Petrovac na moru. Strongly felt in Bar, around Budva and in Budva. Felt 4^o MCS in Titograd. M=4.6 (BEO). USCGS: H= 11 31 18.0, 42.2 N, 18.9 N, h=24 km, Yugoslavia. Minor damage in Buljarica and Petrovac. Felt in Bar, Budva and Titograd. M=5.0 SD 1.1 (CGS).
- 8 eZ (Pn) 16 19 54, eiZ 16 20 38, eiZ 16 20 44, aftershock of the previous shock.
- 8 eiZ Pn 18 41 47, iZ Pg 18 42 00.0, iZ Sn 18 42 44.0, D=540 km, aftershock of the earthquake at 11 h 31 m.
- 9 eZ Pn 06 01 53, iZ Sn 06 02 25.6, D=300 km.
- 9 eZ P 16 56 13, USCGS: H= 16 43 57.7, 51.7 N, 174.6 E, h=21 km, Near Islands, Aleutian Islands. M=5.2 SD 0.9 (CGS).
- 10 eZ P 13 19 32, eZ PP 13 23 06, D=9.900 km, USCGS: H= 13 06 32.6, 14.3 N, 92.0 W, h=70 km, Guatemala. Felt at San Salvador. M=6 1/2 (PAS), 6.5-6.7 (BRK), 5.6 SD 0.7 (CGS).
- 10 Z P 17 12 (00), eZ S 17 14 09, D=1.500 km, BCIS: H= 17 08 38 (DECM), 41.1 N, 33.3 E, h=50 km, Turkey, Northern Anatolian fault, south of Kastamonu. Strongly felt at Kastamonu, Ankara, Çankiri, Balu, Samsun. M_s=5 1/4-5 1/2 (Strasbourg), 5.1 (Moxa), USCGS: H= 17 08 32.2, 41.0 N, 33.5 E, h=13 km, Turkey. Felt in north central Turkey. M=4.9 SD 1.2 (CGS).
- 10 eiZ Pn 04 44 10, weak, iZ Sn 04 44 28.7, D=160 km;
- 12 iZ (Pn) 07 37 45.6, weak, eZ 07 38 31, eZ Sn 07 38 43, eZ 07 38 54, D=550 km, weak, BCIS: H= 07 36 13 (DECM), 46.4 N, 7.4 E, Berner Alps, Switzerland.
- 12 eZ 10 59 13, eZ 10 59 28, eZ 11 00 38.
- 13 iZ+ Pg 09 08 17, iZ! 09 08 38.6, iZ Sg 09 08 52.1, iZ! 09 08 54.9, D=120 km, BCIS: H= 09 08 17, 46.0 N, 16.0 E, Yugoslavia, ZGB: 20 km north of Zagreb. Zagreb felt 4^o MCS. M=3.1.
- 13 eiZ P 12 28 51, eZ PP 12 30 33, D=4.600 km, USCGS: H= 12 21

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- 13 (cont.) 02.3,37.3 N, 71.9 E,h=126 km,Afghanistan-USSR border region.M=5.3 SD 0.9 (CGS).
- 14 eZ(P) 01 19 48,iZ 01 20 14.8,eZ 01 20 43,obscured by microseisms.
- 14 Z P 14 52 (00),eZ 14 53 15, BCIS: H= 14 50 00 (DECM),45.7 N, 26.4 E, h=160 km,Vrancea region,Romania, USCGS: H= 14 49 59.8,45.6 N, 26.4 E, h=158 km, Romania, M=5.0 SD 0.6 (CGS).
- 14 eZ P or PKP 19 30 06, eiZ 19 30 56.
- 14 eiZ+ PKP 21 26 46, USCGS: H= 21 07 52.1, 04.8 S, 143.9 E, h=74 km, New Guinea.M=6 1/4-6 1/2 (PAS),6.3 - 6.7 (BRK), 6.0 SD 1.2 (CGS).
- 15 eiZ P 02 18 55, USCGS: H= 02 08 03.0,21.7 N, 94.5 E,h=81 km,Burma.M=5.7 SD 0.7 (CGS).
- 16 eZ 13 12 54, eZ 13 13 01,obscured by microseisms.
- 16 eZ P 21 01 36, iZ PP 21 03 29.2, eiZ PPP 21 04 25,eZ S 21 09 10, D=5.800 km, USCGS: H= 20 52 13.5,29.6 N,81.0 E, h=9 km, Nepal. M=5.9 SD 0.8 (CGS).
- 17 eZ P 06 04 55,eZ 06 04 42, BCIS: H= 05 59 04 (DECM),70.9 N, 14.3 W, Groenland Sea,west of Jan Mayen.USCGS: H=05 59 10.2,14.0 W, 70.7 N, h=27 km,Jan Mayen Island region.
- 18 eiZ P 05 05 57,eZ PP 05 07 18, BCIS: H= 04 58 00, 49.8 N, 77.9 E, Kazakhstan,region of Semipalatinsk,probably explosion (Uppsala).M=6.2 (Uppsala),6.1 (Moxa), D=4.700 km, USCGS: H= 04 57 57.8,77.7 E, 49.9 N, h=0 km, Eastern Kazakh SSR,M=5.4-5.6 (BRK),5.9 SD 0.8 (CGS).
- 18 eZ P 07 45 41,eZ (S) 07 48 09, D=1.440 km,BCIS: H= 07 42 16 (DECM),35.1 N,26.9 E,Eastern Mediterranean Sea.USCGS: H= 07 42 18.8, 35.1 N, 27.1 E, h=33 km,Dodecanese Islands, M=4.7 SD 1.2 (CGS).
- 18 eiZ Pg 12 44 22, eiZ Sg 12 44 33.5, D=90 km.
- 19 eZ Pn 08 51 28,weak,iZ 08 51 35.6, eZ 08 52 00.
- 19 Z 17 40 (00), eZ Sn 17 40 18.
- 19 eZ Pn 22 56 39,weak,eZ Sn 22 58 21,D=980 km.
- 20 eZ P or PKP 00 38 18, USCGS: H= 00 26 27.8, 66.7 N,148.7 W, h=33 km, Alaska,felt near Bettles.M=4.8 SD 0.8 (CGS).
- 20 eZ P or PKP 01 08 44, USCGS: H= 00 57 53.1,66.7 N,148.7 W,h=33 km, Alaska.Felt near Bettles.M=4.9 SD 0.9 (CGS).
- 20 iZ Pn 10 49 25.2,iZ 10 49 28.5, iZ Sn 10 49 45.4,D=170 km.
- 20 eZ P 12 39 41,iZ PKP 12 43 53.0,D=12.200 km.USCGS: H= 12 26 55.0,26.1 S, 63.2 W, h=589 km,Santiago del Estero, Argentina.M=6 (PAS),5.7 SD 0.9 (CGS).
- 20 eZ P or PKP 15 42 41,eZ 15 45 05.
- 20 eZ PKP 16 37 48,eZ 16 38 31,USCGS: H=16 20 05.8,07.2 S,

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- 20 (cont.) 126.1 E, h=441 km,Banda Sea.M= 5.4 SD 1.3 (CGS).
- 20 eZ P 18 52 52,eZ 18 56 33, USCGS: H= 18 39 40.3,14.3 N, 122.1 E,h=37 km,Luzon,Philippine Islands.Felt widely. M=5.4 SD 0.8 (CGS).
- 21 eiZ PKP 09 11 13,iZ 09 11 15.7,iZ PP 09 14 31.8, D= 16.100 km,USCGS: H= 08 52 00.2,54.1 N,169.7 W,h=245 km, New Hebrides Islands.M=5.6 SD 0.9 (CGS).
- 21 eZ Pg 13 47 16, iZ Sg 13 47 32.0, D=130 km.
- 21 eZ (P) 22 20 21, obscured by microseisms.USCGS: H= 22 10 58.8, 29.4 N,81.0 E, h=31km, Nepal-India border region.M=5.4 SD 1.4 (CGS).
- 23 iZ+ PKP 16 09 16.0, iZ 16 09 27.3, USCGS: H= 15 50 20.4, 7.1 S, 148.3 E, h=43 km,East New Guinea region.Felt. M=6 3/4 (PAS),7.1-7.3 (BRK),6.4 SD 0.6 (CGS).
- 24 eZ Pn 02 29 46,weak,eZ 02 30 29.
- 24 eiZ Pg 07 14 10.6, iZ Sg 07 14 19.5,D=73 km,BCIS: H= 07 13 58 (DECM),46 1/2 N, 13 1/2 E,Julian Alps.
- 24 iZ Pg 19 28 41.6,iZ Sg 19 28 56.6, D=120 km.
- 24 iZ Pg 21 06 03.6,iZ Sg 21 06 06.8,F 21 08 25, D=20 km, BCIS: H= 21 06 00 (DECM),46.1 N, 14.8 E, Ljubljana: 46° 05' N, 14° 45' E,Yugoslavia.Valley of Sava,east from Ljubljana.Strongly felt in Ljubljana.Slight damage on poor constructed buildings in Jevnica,valley of Sava.
- 25 eZ P 05 51 06,eZ S 05 58 07,D=5.300 km, USCGS: H= 05 42 45,14.1 N, 53.8 E,h=33 km,Arabian Sea.M=5.2 SD 1.2 (CGS).
- 25 eZ P 11 59 33, BCIS: H= 11 53 56 (DECM),37 3/4 N, 18 1/2 W, Atlantic Ocean,between Azores and Portugal.USCGS: H= 11 54 09,37.4 N, 16.9 W, h=33 km, North Atlantic Ocean. M=4.6 SD 1.6 (CGS).
- 25 eZ PKP 13 01 30,USCGS: H= 12 41 44,18.7 S, 174.8 W,h= 175 km, Tonga Islands.M=4.1 SD 0.8 (CGS).
- 26 eZ Pn 10 41 53,iZ 10 42 02.3,eZ 10 42 25.
- 27 eZ P 01 34 44,USCGS: H= 01 22 17.3, 37.1 N, 141.0 E, h=60 km, Honshu,Japan.M=5.5 SD 0.7 (CGS).
- 28 eZNE P 08 32 13, eZNE PP 08 36 28, eNE SKS 08 42 49. obscured by microseisms.D=11.100 km.USCGS: H= 08 18 07.4, 25.5 S, 70.7 W,h=47 km, Near coast of northern Chile. Three killed,at least six injured,extensive property damage in the Taltal area.Felt in northern and central Chile,southern Peru and northern Argentina.A seiche was recorded at Caldera with an amplitude of 90 cm. M=7 3/4 (PAS),7.5-7.8 (BRK),6.9 SD 1.0 (CGS).
- 30 eiZ PKP 01 19 03,USCGS: H= 01 00 25.4,17.8 S, 178.9 E, h=658 km, Fiji Islands.M=5.0 SD 0.7 (CGS).
- 30 eiZ Pn 12 29 22,weak, eZ 12 29 45,eZ (Sn) 12 31 27.

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- 30 eZ (Pg) 12 47 30, iZ Sg 12 47 46.2, (D=130 km).
- 31 eZ P or PKP 03 41 09, USCGS: H= 03 21 32, 17.4 S, 172.0 E, h=52 km, New Hebrides Islands region. M=4.9 SD 0.6 (CGS).
- 31 eZ PKP 18 42 28, iZ 18 42 48.6, eZ PP 18 45 18, D=14.100 km, USCGS: H= 18 23 03.9, 11.8 S, 166.5 E, h=33 km, Santa Cruz Islands, strongly felt at Vanicoro, landslides and 3 feet 4 inches tsunami inside barrier lagoon. M=7.5 (PAS), 7.4-7.8 (BRK), 7.7 (CGS), surface waves.
- 31 eZ PKP 19 12 28, USCGS: H= 18 53 13, 11.6 S, 165.9 E, h=33 km, Santa Cruz Islands. M=5.0 SD 1.0 (CGS).
- 31 eZ PKP 22 34 35, iZ 22 34 52.0, eZ (PP) 22 38 23, D=14.400 km, USCGS: H= 22 15 14.0, 11.3 S, 164.8 E, h=33 km, Santa Cruz Islands region. Felt at Vanicoro, landslides and 2 1/2 feet tsunami at Vanicoro. M=7 1/4-7 1/2 (PAS), 7-7.6 (BRK), 7.3 (CGS, surface wave).

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