

25 MAR 1968

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

I—III 1967

Ljubljana 1968

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

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PRELIMINARY SEISMOLOGICAL
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(January - March 1967)

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 Astronomical and Geophysical
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PRELIMINARY SEISMOLOGICAL BULLETIN
 from January 1 to March 31, 1967

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;

Lithological foundation: sandstone (carbon);

Instruments:

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

Constants (December 14, 1966):

Component	To	v:l	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, $D_1 = D_2 = 1$, $V_{max} = 10.150x$,
 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 move-
 ment of ground towards south or west. All times are given in GMT.
 Time signals are received one or two times daily and are regi-
 stered 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: Determination was
 made by electronic computer.

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- 1 eZ PKP 00 40 32, eZ PP 00 44 08, $D = 16.300$ km, USCGS: H = 00
 21 06.6, 12.1 S, 166.2 E, $h = 33$ km, Santa Cruz Islands,
 $M = 4.9$ SD 1.0 (CGS).
- 1 eZ PKIKP 07 25 30, iZ! PKHKP 07 25 35.7, iZ PKP₂ 07 25
 40.1, iZ! 07 25 45.5, USCGS: H = 07 05 48.6, 15.3 S, 173.6 W,
 $h = 33$ km, Tonga Islands. $M = 6 \frac{1}{2} - 6 \frac{3}{4}$ (PAS), 6.4 (BRK), 6.0
 SD 1.0 (CGS).

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- 1 eZ (PKP) 08 05 19, weak.
- 1 eZ PKIKP 09 04 23, eiZ PKHKP 09 04 31, USCGS: H= 08 45 42.2, 20.5 S, 178.4 W, h=627 km, Fiji Islands region, M= 5.6 SD 0.8 (CGS).
- 1 eZ PKP 22 18 17, eZ 22 18 23, USCGS: H= 21 58 57.8, 11.1 S, 165.5 E, h=33 km, Santa Cruz Islands. M=6 (PAS), 5.4 SD 0.6 (CGS).
- 1 eZ Pn 22 20 08, eZ 22 20 56, eZ 22 21 30.
- 2 eZ P 08 23 06, eZ S 08 25 46, D=1.600 km, BCIS: H= 08 19 32, 32.4 N, 22.8 E, Cyrenaica, $M_{LH}=4.4$ (Pruhonice).
- 2 eZ P 13 56 30, BCIS: H= 13 50 07, 30.7 N, 50.4 E, South-western Iran. USCGS: H= 13 50 06.4, 30.6 N, 50.4 E, h=40 km, Iran. M=5.2 SD 0.7 (CGS).
- 2 eZ P or PKP 14 03 01, traces.
- 2 eZ PKP 20 19 23, eZ PP 20 23 (00), D=16.400 km, USCGS: H=19 59 58.2, 12.3 S, 166.4 E, h=33 km, Santa Cruz Islands, M= 5.9-6.1 (BRK), 5.2 SD 1.0 (CGS).
- 3 eZ P or PKP 02 00 23.
- 3 eZ PKP 21 42 46, USCGS: H= 21 23 22, 12.4 S, 166.4 E, Santa Cruz Islands, h=33 km, M=5.4-5.8 (BRK), 5.0 SD 0.6 (CGS).
- 4 eiZ- P 03 54 15, USCGS: H= 03 41 36.4, 20.3 N, 120.0 E, h=33 km, Philippine Islands region, M=5.6 SD 0.8 (CGS).
- 4 iZ Pn 06 01 10.7, iZ Pg 06 02 02.9, iZ Sn 06 03 04.5, iZ Sg 06 04 05.5, D=1.100 km, BCIS: H= 05 58 56 (DECM), 38.4 N, 22.2 E, Greece, near Gulf of Corinth, $M_{LH}=5.2$ (Collm, Pruhonice), USCGS: H= 05 58 54.1, 38.6 N, 22.1 E, h=7 km, Greece. Eight persons injured, moderate property damage in the region of Patras. M=5.2 SD 0.7 (CGS).
- 4 iZ+ P 20 27 22.0, USCGS: H= 20 15 55.8, 10.7 N, 62.5 W, h=74 km, Near coast of Venezuela. Felt on Trinidad Isl. M=5.5 SD 0.7 (CGS).
- 5 iZNE P 00 24 25.8, iZ! 00 24 28.7, eNE (S) 00 32 34, (D= 6.700 km), USCGS: H= 00 14 40.4, 48.1 N, 102.8 E, h=33 km, Mongolia. Felt at Ulan Bator, Mongolia and Irkutsk (U.S.S.R.). M=7 1/4 (PAS), 7.4-7.6 (BRK), 7 1/4 (PAL), 7 1/4-7 1/2 (CGS, surface wave), 6.4 SD 1.0 (CGS).
- 5 iZ P 00 51 56.3, USCGS: H= 00 42 13.3, 48.4 N, 103.1 E, h=33 km, Mongolia, M=5.6 SD 1.0 (CGS).
- 5 iZ P 00 51 56.3, USCGS: H= 00 42 13.3, 48.4 N, 103.1 E, h=33 km, Mongolia. M=5.4 SD 1.0 (CGS).
- 5 eZ P 06 26 18, USCGS: H= 06 13 31.6, 13.8 N, 120.7 E, h=166 km, Mindoro, Philippine Islands. Felt at Manila and Iba. M=5.4 SD 1.3 (CGS).
- 5 eZ P 10 15 55.4, eZ PP 10 17 46, D=5.100 km, USCGS: H=10 07 58.3, 39.4 N, 72.9 E, h=11 km, Kirghiz S.S.R., M=5.3 SD 0.4 (CGS).

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- 5 eZ (Pn) 17 02 27, iZ 17 02 50.3, weak.
- 5 eiZ Pg 20 07 42.5, iZ Sg 20 07 56.8, D=110 km, BCIS: H= 20 07 20, 46.8 N, 13.7 E, Austria, felt 4-5° in Radenthein, Khrnten, Austria.
- 5 iZ Pg 20 09 55.8, iZ Sg 20 10 10.2, D=120 km, BCIS: H= 20 09 36, 46.8 N, 13.7 E, Austria, felt 4-5° in Radenthein, Khrnten, Austria.
- 6 iZ Pn 04 44 28.1, eiZ (Sn) 04 44 54, D=230 km, BCIS: H=04 43 58 (DECM), 45.9 N, 11.5 E, Venetian Alps.
- 7 eZ 09 44 42, weak, eiZ (Sn) 09 45 08.
- 7 eZ PKP 17 00 19, USCGS: H= 16 41 03, 11.9 S, 166.1 E, h=33 km, Santa Cruz Islands, M=5.1 SD 0.7 (CGS).
- 8 eZ P 06 55 11, USCGS: H= 06 43 32.3, 56.1 N, 162.8 E, h=44 km, Near east coast of Kamchatka. M=4.9 SD 0.7 (CGS).
- 9 eZ P 02 02 20, eZ S 02 08 28, D=4.300 km, BCIS: H= 01 55 11 (DECM), 27.8 N, 54.5 E, Southern Iran, region of Lar. USCGS: H= 01 55 13.6, 27.7 N, 54.5 E, h=17 km, Southern Iran. Six injured. Moderate damage in Lar. M=5.3 SD 0.7 (CGS).
- 10 Z PKP 13 54 (00), USCGS: H= 13 34 06, 19.6 S, 175.8 W, h= 33 km, Tonga Islands. M=5.0 SD 1.3 (CGS).
- 11 eZ 06 11 30, USCGS: H= 05 54 00, 00.1 S, 120.1 E, h=23 km, Northern Celebes, M=5.6 SD 1.3 (CGS).
- 11 eiZ+ P 11 26 22, BCIS: H= 11 20 46 (DECM), 34.2 N, 45.6 E, Iraq-Iran border region. M=5 1/4 (Roma), $M_{LH}=5$ (Pruhonice). USCGS: H= 11 20 45.7, 34.1 N, 45.7 E, h=34 km, Iraq-Iran border region. M=5.6 SD 1.1 (CGS).
- 11 eZ (P) 11 41 07
- 11 eZ Pg 19 53 46, iZ Sg 19 53 54.6, D=120 km.
- 13 eZ Pn 10 33 52, eZ 10 34 19, iZ Sn 10 34 36.3, D=410 km, BCIS: H= 10 32 37 (DECM), 44.7 N, 9.1 E, Ligurian Appenins.
- 13 iZ Pg 12 37 17.5, iZ Sg 12 37 22.1, (D=36 km).
- 13 eZ PKP 14 07 24, weak, USCGS: H= 13 48 11.7, 10.6 S, 161.4 E, h=32 km, Solomon Islands. M=6 3/4 (PAS), 5.7-6.1 (BRK), 6 (CGS, surface wave), 5.7 SD 0.9 (CGS).
- 14 eZ (Pn) 06 53 37, eZ 06 53 16.
- 14 eZ P 12 54 22, USCGS: H= 12 41 17.4, 04.1 S, 102.4 E, h=33 km, Southern Sumatra. M=5.2 SD 0.8 (CGS).
- 14 eZ PKP 14 33 04, USCGS: H= 14 13 40.8, 11.3 S, 165.7 E, h=33 km, Santa Cruz Islands. M=4.7 SD 0.9 (CGS).
- 14 iZ P 15 37 35.9, USCGS: H= 15 29 15.0, 44.6 N, 81.5 E, h=33 km, Northern Sinkiang Province, China. M=5.0 SD 0.8 (CGS).
- 14 iZ Pn 19 08 13.5, iZ Sn 19 08 32.6, D=160 km, BCIS: H= 19

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- 14 (cont.) 07 50 (DECM), 46 1/2 N, 13 1/2 E, Kärnten, Italy-Austria border region.
- 15 eZ P 00 09 50, USCGS: H= 00 03 14.3, 29.7 N, 51.3 E, h= 33 km, Southern Iran. M=4.7 SD 0.6 (CGS).
- 15 eiZ Pn 14 34 02, iZ Sn 14 34 21.3, D=160 km, BCIS: H= 14 33 42 (DECM), 46 1/4 N, 12 3/4 E, Venetian Alps.
- 15 eZ (P) 20 08 27, USCGS: H= 19 58 45.6, 55.7 N, 110.7 E, h=32 km, Lake Baikal region. M=5.1 SD 0.8 (CGS).
- 16 eZ (P) 07 40 43, eZ 07 41 13.
- 16 eZ PKP 14 45 50, USCGS: H= 14 26 22.9, 11.2 S, 165.7 E, h=6 km, Santa Cruz Islands. M=5.8-6.2 (BRK), 5.3 SD 1.3 (CGS).
- 17 eZ P 01 20 43, eZ PP 01 24 55, eZ PPP 01 26 52, D=11.200 km, USCGS: H= 01 07 54.3, 27.4 S, 63.3 W, h=590 km, Santiago del Estero Prov. Argentina. M=6 1/4 (PAS), 4.8-5.2 (BRK), 5.5 SD 0.7 (CGS).
- 17 eiZ P 12 11 56, eZ S 12 21 53, D=8.900 km, USCGS: H= 11 59 31.5, 38.3 N, 142.1 E, Near east coast of Honshu, Japan, h=314 km, M=6 1/2 (PAS), 6.5 (BRK), 5.9 (CGS, surface wave), 5.9 SD 0.6 (CGS).
- 18 eZ P 04 32 56, USCGS: H= 04 20 52.9, 48.9 N, 154.9 E, h= 40 km, Kurile Islands. M=5.4 SD 0.7 (CGS).
- 18 eiZ P 05 44 42.6, eZ! 05 44 46, Z PP 05 47 (00), eNE 05 53 (00), D=6.700 km, USCGS: H= 05 34 32.6, 56.6 N, 120.8 E, h=11 km, Eastern Soviet Union, felt at Chita. M=6 1/2 - 6 3/4 (PAS), 6.5 (BRK), 6.1 SD 0.8 (CGS).
- 18 iZ P 08 30 39.6, USCGS: H= 08 18 22.0, 52.5 N, 168.3 W, h=37 km, Fox Islands, Aleutian Islands. M=6 (PAS), 5.5 - 5.7 (BRK), 5.7 SD 0.9 (CGS).
- 18 eZ Pn 10 29 57, iZ (Sn) 10 30 33.6, iZ 10 30 53.7, D=400 km, BCIS: H= 10 28 47 (DECM), 44.7 N, 8.9 E, Ligurian Apennines.
- 18 eZ PKP 14 49 18, USCGS: H= 14 29 51.5, 17.9 S, 102.9 E, h= 226 km, Tonga Islands. M=4.6 SD 0.6 (CGS).
- 18 eZ (P) 21 59 09, USCGS: H= 21 49 25.8, 48.1 N, 102.9 E, h= 33 km, Mongolia. Felt in Lake Baikal region. M=5.2 SD 0.8 (CGS).
- 19 eiZ- PKHKP 12 57 37, eiZ PKIKP 12 57 41, D=15.700 km, USCGS: H=12 38 31.3, 11.8 S, 166.4 E, h=156 km, Santa Cruz Islands M=5.5 SD 0.6 (CGS).
- 19 eZNE PKIKP 12 59 54, eiZNE PKHKP 12 59 59.0, D=16.400 km, USCGS: H= 12 40 12.6, 14.8 S, 178.8 W, h=18 km, Fiji Islands region. M=6 3/4 (PAS), 6.8 (CGS, surface wave), 6.6 SD 1.2 (CGS).
- 19 eZ P 14 53 52, USCGS: H= 14 53 52, USCGS: H= 14 41 37, 52.4 N, 169.6 W, h=55 km, Fox Islands, Aleutian Islands. M=5.2 SD 0.9 (CGS).

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- 20 iZ- P 02 07 07.3, USCGS: H= 01 57 23.1, 48.0 N, 102.9 E, h= 33 km, Mongolia. M=6 3/4 (PAS), 6.8-7.2 (BRK), 6.1 SD 0.9 (CGS).
- 20 iZ Pg 13 57 32.0, iZ Sg 13 57 38.2, D=47 km.
- 21 eZ PKP 03 13 41, USCGS: H= 02 54 00.8, 49.8 S, 114.8 W, h=33 km, Easter Island Cordillera. M=5.3 SD 1.3 (CGS).
- 21 eZ P 13 43 45, USCGS: H= 13 31 30, 3.3 N, 97.3 E, h=102 km, Northern Sumatra. M=5.3 SD 1.1 (CGS).
- 21 eZ PKP 14 08 04, USCGS: H= 13 48 14.1, 30.7 S, 178.2 W, h=65 km, Kermadec Islands region. M=4.9 SD 0.7 (CGS).
- 22 eZ P 11 25 27, iZ 11 25 39.1, iZ 11 25 52.9.
- 22 eZ P 12 21 38, USCGS: H= 12 09 52.3, 08.8 N, 93.7 E, h=36 km, Nicobar Islands region, M=4.9 SD 0.8.
- 22 eZ P 19 31 23, USCGS: H= 19 22 01.4, 0.8 S, 16.0 W, h=33 km, North of Ascension Islands. M=4.6 SD 1.1 (CGS).
- 22 eZ PKP 22 54 15, USCGS: H= 22 35 51, 18.0 S, 178.5 W, Fiji Islands region. M=600 km, M=4.5 SD 0.7 (CGS).
- 23 eZ (P) 13 28 19, weak, eZ 13 29 10.
- 23 eZ P 20 57 21, USCGS: H= 20 47 56.7, 01.6 S, 15.6 W, h= 33 km, North of Ascension Island. M=5.1 SD 0.8 (CGS).
- 24 iZ P 03 17 48.7, USCGS: H= 03 05 39.0, 41.4 N, 141.9 E, h= 69 km, Hokkaido, Japan region, M=5 1/4 (PAL), 5.7 SD 0.9 (CGS).
- 24 eiZ Pn 05 25 59, iZ Pg 05 26 10.8, iZ Sn 05 26 39.5, iZ Sg 05 26 56.9, D=370 km.
- 24 eZ (P) 09 38 47, USCGS: H= 09 29 12.3, 0.6 S, 21.0 W, Central Mid-Atlantic Ridge. h=33 km, M=4.9 SD 1.0 (CGS).
- 25 iZ+ P 01 57 53.9, USCGS: H= 01 50 19.4, 36.6 N, 71.6 E, h=281 km, Afghanistan-USSR border region. Felt widely. M=5.7 SD 0.5 (CGS).
- 25 eZ 11 19 20, weak, eZ 11 19 26.
- 25 eZ (Pg) 16 47 51, iZ Sg 16 48 06.1, (D=120 km).
- 25 eiZ 16 50 49, iZ Sg 16 50 54.6.
- From January 25, at 20 h 13 m to January 26, at 08 h 03 m no registration.
- 26 eZ Pn 14 26 29, eZ 14 26 56, iZ 14 27 21.6.
- 27 eZ 10 22 31, eZ 10 23 12.
- 27 eZ (Pg) 13 59 18, eZ 13 59 30 (Sg): (D=100 km).
- 28 eiZ+ P 14 05 14, USCGS: H= 13 52 58.3, 52.4 N, 169.5 W, h= 47 km, Fox Islands, Aleutian Islands. Felt on Umnak Island. M=6 1/4-6 1/2 (PAS), 6.3-6.7 (BRK), 6.7 (CGS, surface wave).
- 28 eZ+ P 16 43 40, USCGS: H= 16 31 21.1, 52.3 N, 169.3 W, h= 32 km, Fox Island, Aleutian Island. M=5.6 SD 0.9 (CGS).

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- 28 eZ+ P 17 31 50,USCGS: H= 17 19 32.7, 52.3 N, 169.5 W,h=41 km, Fox Islands,Aleutian Islands.M=4.7 SD 0.6 (CGS).
- 28 eZ+ P 17 54 18, USCGS: H= 17 42 01.5,52.4 N, 169.4 W, h=50 km,Fox Islands,Aleutian Islands.M=6 (PAS),5.6 SD 1.1 (CGS).
- 28 eiZ Pg 21 15 32.2, iZ 21 15 36.0, iZ (Sg) 21 15 40.0, D=about 70 km.
- 29 iZ+ Pn 00 12 46.3, iZ! Pg 00 12 51.1, iZNE Sn 00 13 13.5, iZNE! 00 13 21.2, D=240 km, BCIS: 00 12 14 (DECM),47.9 N, 14.2 E,Austria.Epicenter in the region of Molln (47° 53' N, 14° 16' E)(Wien-Kobenzl).Io=6-7° MCS.M_{LH}=4.5 (Pruhonice).
- 29 eZ P 04 01 13, USCGS: H= 03 53 58.8,26.5 N, 55.3 E, h=42 km, Southern Iran.M=5.1 SD 1.5 (CGS).
- 29 eZ P 07 19 15,eZ(PP)07 20 50, D=4.200 km, USCGS: H= 07 12 05,26.5 N, 55.3 E, h=33 km, Southern Iran.M=4.7 SD 1.2 (CGS).
- 29 eZ P 08 03 50, eZ S 08 09 40, D=4.200 km.BCIS: H= 07 56 37 (DECM),26.5 N, 55.2 E,Central Iran,near Persian Gulf. M_{SH}=6.0 (Collm),5.8 (Moxa).M_{LH}=5.6 (Collm,Pruhonice), 5^{SH}1/2 (Strasbourg),M_{LV}=5.5(Collm),5.5 (Moxa),M_{LH}=5.4 (Moxa); USCGS: H= 07 56 39.2,26.5 N, 55.2 E, h=38 km, Southern Iran.M=5.2 SD 1.4 (CGS).
- 29 eiZ Pn 20 06 05.6, iZ 20 06 30.6,iZ 20 06 50.6, BCIS: H= 20 05 10 (DECM),44.6 N, 10.1 E,Toscan Apennines,Italy.
- 29 iZ- Pg 20 45 18.8,iZ! Sg 20 45 26.6,D=60 km,BCIS: H=20 45 09,45 1/2 N, 14 1/4 E, Slovenia.Felt at Ilirska Bistrica (45° 35' N, 14° 15' E),Io=3-4° MCS (Ljubljana).The epicentral region is the same as on January 31,1956.
- 30 eiZ P 01 25 25, BCIS: H= 01 20 27 (DECM),41.0 N, 44.2 E, Armenia (USSR),M=5.3 (Quetta),5 1/4 (Roma),M_{LH}= 5.1 (Moxa), M_{LV}=5.1 (Pruhonice),4.8 (Moxa),M_{LH}=41/2-4 3/4 (Strasbourg).
- 30 eZ 05 07 14,eZ Sn 05 07 30,BCIS: H= 05 06 39,aftershock of the seisms of January 29,at 00h 12m 14s.
- 30 eZ P 12 29 39, BCIS: H=12 25 06 (DECM),39 1/2 N, 41 1/4 E,Eastern Anatolia,Varto region.USCGS: H= 12 25 00.6, 39.3 N,41.3 E, h=33 km,Turkey.M=4.8 SD 1.3 (CGS).
- 30 iZ Pg 16 03 12.9,iZ Sg 16 03 14.8, D=15 km,not felt.
- 30 eZ P 21 16 15,USCGS: H=21 05 30.4,26.2 N,96.2 E,h=44 km, Burma.M=5.5 SD 0.6 (CGS).
- 31 eZ P 13 50 52,USCGS: H= 13 37 34.3,2.8 N,84.4 W, h=33 km, Off coast of Central America.M=5.3 SD 0.8 (CGS).
- 31 eZ P 17 56 09,USCGS: H= 17 43 56.2,42.8 N,145.4 E, h=44 km,Hokkaido,Japan,region.M=5.1 SD 1.0 (CGS).
- 31 iZ Pg 18 06 42.2,iZ Sg 18 06 44.2,D=15 km,not felt.
- 31 eZ P 19 07 41,BCIS: H=19 00 22,26 1/2 N, 55 1/4 E,Central

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- 31 (cont.)Iran (DECM).USCGS: H= 19 00 22.7,26.5 N,55.3 E, h=16 km,Southern Iran.M=5.2 SD 1.0 (CGS).
- 31 eZ P or PKP 19 11 37.

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- 1 eZ P 01 14 34,eZ S 01 19 24, D=3.200 km,BCIS: H= 01 07 22 (DECM),26.8 N, 55.4 E, Laristan,Central Iran,near Persian Gulf.M=6.1 (Quetta).USCGS: H= 01 07 19.2,26.7 N, 55.3 E,h=19 km,Southern Iran.M=5.0 SD 0.9 (CGS).
- 1 eZ P 14 28 19, USCGS: H= 14 21 08,26.7 N, 55.2 E, h=33 km, Southern Iran.
- 1 eZ P 15 33 06,USCGS: H= 15 19 56.8,4.8 S, 103.2 E, Southern Sumatra,h=33 km,M=5.3 SD 0.6 (CGS).
- 1 eZ Pn 18 55 46,eZ (Sn) 18 56 15 (D=260 km).
- 2 eZ Pg 04 24 33,eZ 04 24 49.
- 2 eZ (PKP) 06 43 42,USCGS: H= 06 25 49.8,57.9 S,25.7 W, h=81 km,South of Sanwich Islands region.
- 2 eZ P 17 46 01, USCGS: H= 07 37 54.9,39.7 N, 75.5 E, h=39 km,Southern Sinkiang Prov.,China.M=5.3 SD 0.5 (CGS).
- 2 iZ Pn 09 20 37.6,eZ 09 20 50,iZ 09 21 12.6.
- 2 eZ P or PKP 12 08 01, eZ 12 08 44.
- 2 eZ Pn 12 17 54,eZ 12 18 08,iZ!(Sg) 12 19 07.5.
- 2 eZ (Pn) 15 21 38,eZ 15 22 49,eZ 15 23 29.
- 2 eZ Pg 15 38 25,iZ Sg 15 38 41.1, D=130 km.
- 2 eZ- P 16 36 30, USCGS: H= 16 24 39.1,41.6 N, 139.7 E, h=176 km,Hokkaido,Japan region.M=5.4 SD 1.1 (CGS).
- 2 eZ- PKP 18 36 51,eZ PP 18 40 04, D=15.700 km,USCGS: H=18 18 17.4,4.3 S,153.7 E,h=247 km,New Ireland region.M=5.0 SD 0.9.
- 3 eZ P 08 29 32, USCGS: H= 08 17 05.4,36.5 N,138.0 E,h=26 km,Honshu,Japan.Slight damage at Nagaon.M=4.7 SD 0.7 (CGS).
- 3 eZ P 13 00 48,eZ 13 01 48,eZ S 13 10 37, D=8.700 km,USCGS: H= 12 48 09.2,5.6 S,110.5 E, h=560 km,Java Sea,M=5.4 SD 1.0 (CGS).
- 5 eZ P 19 05 26, USCGS: H= 18 55 45.1,5.4 S,11.4 W,h=19 km, Ascension Island region.M=5.2 SD 0.6 (CGS).
- 5 eZ Pn 21 13 16, eZ (Sn) 21 14 04, (D=480 km),obscured by microseisms.
- 6 iZ Pg 13 28 31.1,iZ Sg 13 28 35.5, D=33 km,not felt.

- 7 Z P 15 04 (00),USCGS: H= 14 53 13.9, 56.7 N, 157.2 W, h= 67 km,Alaskan Peninsula,M=4.4 (BRK),5.6 SD 1.1 (CGS).
- 9 eiZNE Pn 14 10 09, iZ Pb 14 10 25.6, iZNE Pg 14 10 43.5, iZ Sn 14 11 27.8, eNE 14 11 44, iZ Sg 14 12 14.1, D=750 km,BCIS: H= 14 08 23 (DECM),40.0 N, 20.1 E,Central Albania,M=5.7 (Athens),M_{LH}=5 1/2-5 3/4 (Strasbourg),5.4 (Athens),5.3 (Pruhonice).USCGS: H= 14 08 18.7,40.0 N, 20.3 E, h=3 km,Greece-Albania border region.Slight damage.M=5.6 SD 1.1 (CGS).
- 9 eiZ+ NE P 15 37 30,eZ 15 41 11,eNE S 15 48 (00),eZ (S) 15 48 25,D=9.900 km,USCGS: H= 15 24 47.2,2.9 N,74.9 W, h=68 km,Colombia.100 killed,many injured.Major damage at Camporale,Guacamaya and Neiva.Felt at Iquito,Peru and Quito (Ecuador).M=6 3/4 (PAS),7.3-7.5 (BRK),7-7 1/4 (PAL), 6.3 SD 0.6 (CGS).
- 10 eZ Pn 04 12 46,iZ Sn 04 13 00.0,D=130 km.
- 10 eZ Pn 05 03 55,eZ (Sn) 05 04 42,(D=430 km),BCIS: H= 05 02 52 (DECM),44 1/4 N,10 1/4 E,Ioscan Apennines,Italy.
- 10 eZ (Pn) 06 48 31,eZ (Sn) 06 48 54,(D=200 km),BCIS: H=06 47 56,47.7 N,16.0 E,(Wien-Kobenzl),Austria.Felt 4 MCS at Wimpassing and Neunkirchen.
- 10 eZ= P or PKP 22 50 24.
- 11 eZ P 02 51 43,USCGS: H= 02 39 47.1,51.7 N,159.5 E,h=21 km,Off east coast of Kamchatka.M=4.6 SD 0.6 (CGS).
- 11 eZ Pn 09 18 13.3, eZ Sn 09 18 26.1,D=100 km.
- 11 eiZ P 15 26 32,USCGS: H= 15 18 06.3,30.5 N,50.7 E,h=42 km,Iran.M=5.0 SD 1.1 (CGS).
- 12 eZ P or PKP 21 24 42,Z 21 25 (00).
- 13 iZ Pn 07 31 14.5,iZ Sn 07 31 53.9,D=370 km.
- 13 eZNE P 23 20 47,iZ!!! 23 20 51.6,eNE S 23 26 (00),BCIS: H =23 14 26 (DECM),52.9 N, 33.7 W, Central North-Atlantic Ridge.M_{Lv}=7.2 (Moxa),M_{LH}=7.1 (Moxa,Pruhonice),7.0 (Collm, Strasbourg),M_{Pv}=6.9 (Bensberg),M_{SH}=6.8 (Collm),M=6 3/4 (PAS),6.7 (Uppsala),6.2 (Athens),USCGS: H= 23 14 19.6, 52.7 N,34.1 W, h=10 km,North Atlantic Ocean.M=6.5-6.9 (BRK),6.3 (CGS,surface wave).D=3.400 km.
- 14 eiZ P 01 47 45, USCGS: H= 01 36 04.7,13.7 N,96.5 E,h=27 km,Andaman Islands region.Felt at Bangkok,Thailand.M= 6.8 SD 0.9 (CGS,surface wave).
- 14 eZ Pn 02 13 48,iZ Sn 02 14 46.5,D=540 km,BCIS: H= 02 12 37,44.2 N,19.2 E,Yugoslavia,NE of Sarajevo.M=3.5 (BE0).
- 14 eZ PKP 05 20 58,eZ PP 05 23 42,D=15.100 km,USCGS: H=05 02 38.4,13.3 S,171.3 E, h=635 km,New Hebrides Islands region.M=5.6 SD 0.8 (CGS).
- 14 eZ Pn 13 33 (00),eZ (Sn) 13 33 54 (D=490 km).
- 14 iZ Pn 14 44 16.1,iZ 14 44 22.1.

- 14 eZ PKP 18 33 11,USCGS: H= 18 13 14,19.4 S,172.8 W,h=33 km,Tonga Islands region.M=4.9 SD 1.2 (CGS).
- 15 eZ P 01 53 14, USCGS: H= 01 47 27.7,34.5 N, 47.6 E, h=38 km,Western Iran.M=5.0 SD 0.8 (CGS).
- 15 eiZ+ P 06 08 31,USCGS: H= 05 57 24.6,20.4 N,94.1 E,h=10 km,Burma.M=5.5 SD 1.3 (CGS).
- 15 iZ- P 16 23 24.3,eiZpP 16 25 34,iZ PP 16 27 26.6,eZ S 16 34 24,D=10.400 km.USCGS: H=16 11 11.8,9.0 S,71.3 W, h=597 km,Peru-Brazil border region.M=6 3/4-7 (PAS),7.2-7.4 (BRK),6.2 SD 0.6 (CGS).
- 15 eZ P or PKP 16 48 36,eZ 16 51 (00).
- 16 eZ Pg 23 43 20,weak,iZ Sg 23 43 25.4,(D=45 km),not felt.
- 17 iZ-PKIKP 10 30 46.2,iZ PKP, 10 31 15.0,eZ PP 10 36 04, D=19.100 km.USCGS: H= 10 10 51.5,23.7 S,175.2 W,h=19 km, Tonga Islands region.M=6 1/2 (PAS),6.4 SD 0.7 (CGS).
- 19 eZ PKP 18 13 35,USCGS: H= 17 53 50.6,21.7 S,169.8 E,h=33 km,Loyalty Islands region.M=4.5 SD 1.1 (CGS).
- 19 eZ PKP 19 45 22,USCGS: H= 19 25 27,18.9 S,174.0 W,h=33 km, Tonga Islands region.M=4.5 SD 1.2 (CGS).
- 19 eZ P 22 28 23,eZ PP 22 32 17,D=10.400 km,USCGS: H= 22 14 35.3,9.2 S,113.1 E,h=80 km,South of Java.51 killed,many injured and extensive property damage at Malang,Java.M= 6 3/4 (PAS),M=6.2 SD 1.0 (CGS).
- 19 eZ PP 23 46 37,USCGS: H= 23 28 28.0,0.0,124.2 E,h=101 km, Molucca Sea.M=5.7 SD 1.1 (CGS).
- 20 eiZ + P 15 27 12,eZ 15 28 43,USCGS: H= 15 18 39.9,33.7 N, 75.3 E, h=24 km,Eastern Kashmir.Felt at Lahore,Pakistan. M=5.7 SD 0.7 (CGS).
- 21 eZ P 04 27 38,USCGS: H= 04 16 21.1,19.2 N,67.9 W,h=44 km, Mona Passage.M=4.8 SD 0.9 (CGS).
- 21 eZ P 12 46 17,eZ 12 47 47,USCGS: H= 12 37 44.5,33.6 N, 75.3 E, h=31 km,Eastern Kashmir.M=5.1 SD 0.9 (CGS).
- 21 iZ Pg 15 57 56.3,iZ Sg 15 57 59.2, D=22 km.
- 22 eZ Pn 00 15 34,eZ Sn 00 15 49,D=120 km.
- 22 eZ PKP 18 46 17.2,iZ pPKP 18 46 39.9,eZ PP 18 49 50, D= 16.300 km.USCGS: H= 18 26 46.7,19.5 S,169.0 E, h=87 km, New Hebrides Islands.M=5.6 SD 1.0 (CGS).
- 22 eZ 22 58 01,weak,eZ (Sn) 22 58 30.
- 23 eZ P 14 38 13,USCGS: H= 14 25 43.9,24.2 N,122.5 E, h=48 km,Taiwan region.M=5.4 SD 1.1 (CGS).
- 23 eZ P or PKP 19 02 41.
- 23 eZ P 20 51 39,eZ 20 51 48.7,USCGS: H= 20 38 56.3,26.1 N, 128.5 E,h=30 km,Ryukyu Islands.M=5.4 SD 0.9 (CGS).
- 23 iZ- Pn 22 39 32.8,iZ 22 39 37.2,iZ Sn 22 40 02.7,iZ Sg

- 23 (cont.) 22 40 12.9, eNE 22 40 14, D=270 km. BCIS: H= 22 38 50 (DECM), 43.6 N, 16.2 E, Drniš, Yugoslavia. Felt at Split. M=4.4 (Skopje), Mg=4.0 (BEO).
- 24 Z Pn 15 22 (00), iZ 15 22 38.5, iZ 15 22 49.1, eiZ 15 22 59.7, iZ 15 23 08.0.
- 24 iZ Pn 15 24 06.4.
- 25 eZ 11 38 24, eZ PP 11 39 02. USCGS: H= 11 20 47.4, 0.0 S, 123.9 E, h=70 km, Northern Celebes. M=5.8 SD 1.2 (CGS).
- 25 eZ PP 11 56 39, USCGS: H= 11 38 46.0, 0.1 S, 123.9 E, h=105 km, Northern Celebes. M=5.7 SD 1.2 (CGS).
- 25 eZ PKP 16 06 05, USCGS: H= 15 46 52, 19.6 S, 176.0 W, h=358 km, Tonga Islands. M=4.5 SD 0.5 (CGS).
- 26 iZ+ P 04 05 49.3, iZ PP 04 07 26.4, D=6.900 km. BCIS: H=03 58 00, 50.0 N, 78.0 E, Kazakhstan, region of Semipalatinsk (USSR). Explosion?, M=6.5 (Uppsala).
- 27 Z Pn 06 29 (00), eZ Sn 06 30 23, D=800 km.
- 27 eZ Pn 21 02 48, eZ Sn 21 02 16. D=850 km. BCIS: H=21 00 40 (DECM), 45.0 N, 27.1 E, Rumania. Felt 5° MCS at Provadia (Bulgaria), M=5.4 (Sofia), Mg=5.2 (BEO), M_{LH}=4.1 (Pruhonice).
- 28 eZ P 09 50 03, USCGS: H= 09 37 18.0, 32.7 N, 141.7 E, h=23 km, South of Honshu, Japan. M=5 3/4-6 (PAS), 5.5 SD 0.9 (CGS).
- 28 eiZ- Pn 14 24 08, eZ Sn 14 25 50, D=980 km. BCIS: H=14 21 57 (DECM), about 38 3/4 N, 22 3/4 E, Greece. M_L=4.7 (Athens).
- 28 eZ 19 10 52, eZ Sn 19 11 29.

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- 1 eZ P 10 20 04, USCGS: H= 10 12 49.4, 28.3 E, 57.1 E, h=39 km, Southern Iran. M=4.9 SD 0.8 (CGS).
- 2 eZ P 03 00 32, USCGS: H= 02 47 31.7, 00.3 S, 78.7 W, h=121 km, Ecuador. M=4.8-5.2 (BRK), 5.8 SD 0.5 (CGS).
- 2 eZ P 20 59 36, USCGS: H= 20 47 37.6, 52.4 N, 160.5 E, h=18 km, Off east coast of Kamchatka. M=4.6 SD 0.5 (CGS).
- 2 eZ P 23 15 31, USCGS: H= 23 03 39.7, 53.8 N, 160.5 E, h= 21 km, Near east coast of Kamchatka. M=5.0 SD 0.8 (CGS).
- 3 eZ Pn 01 35 01, eZ Sn 01 36 28, D=820 km, USCGS: H= 01 32 43, 37.7 N, 20.8 E, h=33 km, Ionian Sea.
- 4 eiZ+ Pn 00 01 01.4, iZ Pg 00 01 04.4, eiZ Sn 00 01 28.8, iZ Sg 00 01 37.3, D=260 km, BCIS: H= 00 00 22 (DECM), 43.8 N, 12.8 E, Italy. Roman Apennines.
- 4 eZ P 05 21 51, USCGS: H=05 09 24.2, 21.4 N, 121.8 E, h=134 km, Taiwan region. M=5.5 SD 0.7 (CGS).
- 4 eiZ PKIKP 06 35 45, iZ!PKHKP 06 35 51.0, iZ PKP₂ 06 35 57.0,

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- 4 (cont.) USCGS: H= 06 16 21.9, 18.5 S, 175.4 W, h=225 km, Tonga Islands. M= 4.9-5.3 (BRK), 5.7 SD 0.6 (CGS).
- 4 iZ!- Pn 18 00 31.4, iZ!! Sn 18 02 14.3, D=1.000 km. BCIS: H= 17 58 01 (DECM), 39.2 N, 24.6 E, Aegean Sea. Strongly felt in Greece, especially in Athens and in western Turkey (Canakkale, Edirne, Izmir). Felt 3° MCS at Sofia. M=7.0 (Ifrane, Uppsala), M_{LV}=6.9 (Moxa), M=6.8 (Athens, Rabat), M_{PH}=6.7 (Rabat), 6.8 (Pruhonice), M_{LH}=6.8 (Moxa, Strasbourg), M_L=6.7 (Rabat), M_{PV}=6.5 (Strasbourg), 6.4 (Bensberg), Mg=6.4 (BEO), M_{LH}=6.3 (Praha), 5.8 (Athens), 5.3 (Istanbul-K.) USCGS: H=17 58 06.4, 39.2 N, 24.6 E, h=33 km, Aegean Sea. Felt in Greece, western Turkey and in Sofia, Bulgaria. M=6 3/4-7 (PAS), 6.5-6.7 (BRK).
- 4 eZ Pn 18 40 28, BCIS: H= 18 38 00 (DECM), Aegean Sea, aftershock, M_L=5.1 (Athens).
- 5 eZ Pn 01 02 05, eZ Sn 01 03 53, D=1.000 km. BCIS: H= 00 59 38, 39.0 N, 24 3/4 E, Aegean Sea, aftershock.
- 5 Z Pn 17 25 (00), eZ Sn 17 26 23, D=800 km, BCIS: H= 17 22 55 (DECM), 45.7 N, 26.7 E, h=150 km, Rumania, Vrancea region. USCGS: H= 17 22 54, 45.8 N, 26.8 E, h=130 km, M=4.4 SD 1.4, Rumania.
- 6 eZ Pn 02 33 13, eZ Sn 02 33 29, D=150 km, BCIS: H=02 32 43, 47 1/2 N, 14 3/4 E, Austrian Alps.
- 6 eiZ P 04 52 15, eZ PP 04 54 09, D=6.200 km, USCGS: H=04 40 17.8, 30.5 N, 137.6 E, h=490 km, South of Honshu, Japan. M=5.1 SD 0.6 (CGS).
- 6 eZ PKIKP 08 31 25, eZ PKHKP 08 31 34, USCGS: H=08 11 58.8, 22.7 S, 177.5 W, h=227 km, South of Fiji Islands. M=4.7 SD 0.8 (CGS).
- 6 eZ- P 11 41 02, USCGS: H= 11 28 49.4, 3.7 N, 95.8 E, h=57 km, Off west coast of northern Sumatra. M=5.1 SD 0.8 (CGS).
- 6 eZ P or PKP 17 11 36.
- 6 eZ (Pn) 18 15 08, eZ 18 15 17.
- 7 iZ Pn 08 01 28.4, iZ Pg 08 01 40.6, iZ Sn 08 02 12.4, iZ Sg 08 02 27.7, D=400 km, BCIS: H= 08 00 35, (DECM), 43.4 N, 17.7 E, Hercegovina, Yugoslavia. Felt 5° MCS at Mostar. M=4.4 (BEO), 4.0 (Skopje).
- 7 eZ Pn 20 38 09, weak, eZ 20 38 55, eZ 20 39 42.
- 8 eZ (PKP) 23 26 50, USCGS: H= 23 07 16, 17.6 S, 177.0 W, h=182 km, Fiji Islands region. M=4.2 SD 0.8 (CGS).
- 9 eZ (PKP) 07 17 11, obscured by microseisms, USCGS: H= 06 58 35.7, 10.6 S, 166.3 E, h=30 km, Santa Cruz Islands. M=6 1/2 (PAS), 5.6-5.8 (BRK), 6.0 SD 0.8 (CGS).
- 9 eZ 14 26 17, eZ (Sn) 14 26 06.
- 9 iZ Pb 16 55 06.0, iZ Sg 16 55 16.1, D=80 km.
- 9 eZ (PKP) 18 18 12, obscured by microseisms, USCGS: H=1758 33,

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- 9 (cont.) 15.5 S, 175.5 W, h=95 km, Tonga Islands. M=4.3 SD 1.2 (CGS).
- 9 eZ (PKP) 18 22 17, obscured by microseisms. USCGS: H=18 02 45.7, 10.7 S, 166.3 E, h=59 km, Santa Cruz Islands. M=6 (PAS), 5.9-6.1 (BRK), 6.4 SD 1.1 (CGS).
- 9 eZ (PKP) 18 46 49, obscured by microseisms. USCGS: H=18 27 08, 15.6 S, 175.3 W, h=28 km, Tonga Islands. M=4.6 SD 1.6 (CGS).
- 10 eZ (PKP) 10 32 13, USCGS: H=10 13 22, 7.8 S, 178.6 W, h=577 km, Fiji Islands region. M=4.2 SD 0.7.
- 10 eZ 19 37 25, eZ 19 37 43.
- 11 iZ Pg 06 14 54.6, iZ Sg 06 14 57.6, very weak, not felt. D=20 km.
- 11 eZ P 06 38 43, USCGS: H=06 31 09.0, 36.4 N, 70.7 E, h=220 km, Hindu Kush region. M=5.0 SD 0.5 (CGS).
- 11 eZ PKP 08 52 49, USCGS: H=08 33 27.4, 10.7 S, 166.2 E, h=49 km, Santa Cruz Islands. M=6 1/4 (PAS), 6.1 SD 0.8 (CGS).
- 11 Z P 14 58 (00), eZ 15 01 28, USCGS: H=14 44 59.2, 19.1 N, 95.8 W, h=33 km, Vera Cruz, Mexico. Moderate property damage at Vera Cruz and Boca del Rio. Felt at Jalapa. M=5 1/2 (PAS), 5.2-5.6 (BRK), 5.5 SD 1.0 (CGS).
- 11 eZ P 17 07 22, USCGS: H=16 56 48.7, 28.4 N, 94.4 E, h=7 km, India-China border region. M=5.3 SD 0.6 (CGS).
- 12 eZ P 03 04 05, eZ PP 03 07 06, D=8.700 km, USCGS: H=02 51 54.7, 42.6 N, 143.0 E, h=33 km, Hokkaido region, Japan. M=5.3 SD 0.9 (CGS).
- 13 eZ Pn 07 40 24, eZ (Sn) 07 42 06, D=990 km.
- 13 eiZ P 19 28 54.1, BCIS: H=19 22 21 (DECM), 19.7 N, 38.6 E, Central ditch of Red Sea. USCGS: H=19 22 15.4, 19.7 N, 38.9 E, h=7 km, Red Sea. M=5.8 SD 1.0 (CGS).
- 14 eZ P 07 08 34, USCGS: H=06 58 04.6, 28.4 N, 94.3 E, h=24 km, India-China border region. M=5.9 SD 0.7 (CGS).
- 15 eZ Pn 03 40 27, eZ (Sn) 03 40 58, D=280 km.
- 15 iZ PKP 06 59 10.8, USCGS: H=06 39 59.8, 18.9 S, 169.3 E, h=253 km, New Hebrides Islands. M=4.9 SD 0.8 (CGS).
- 15 eZ Pn 21 03 28, eZ (Sn) 21 04 (00), D=290 km.
- 16 eZ P 03 18 36, BCIS: H=03 11 56 (DECM), 19.6 N, 38.6 E, Central ditch of the Red Sea, aftershock of March 13, at 19 22, USCGS: H=03 11 59, 19.5 N, 38.9 E, h=33 km, Red Sea. M=5.4 SD 0.9 (CGS).
- 16 eZ PKP 12 29 20, USCGS: H=12 09 37.7, 22.1 S, 170.5 E, h=66 km, Loyalty Islands region. M=5.4 SD 0.6 (CGS).
- 16 eZ P or PKP 16 46 37, weak.
- 16 eZ PKP 17 51 26, USCGS: H=17 33 07.5, 13.6 S, 170.7 E, h=637 km, New Hebrides Islands. M=4.8 SD 0.5 (CGS).
- 16 eZ Pn 18 54 04, iZ (Sn) 18 55 46.4, (D=980 km).

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- 16 eZ Pn 21 25 48, weak, eZ (Sn) 21 26 08, (D=170 km).
- 17 eZ PKP 11 43 47, USCGS: H=11 24 45.7, 3.6 S, 150.9 E, h=33 km, New Ireland region. M=6 1/4 (PAS).
- 17 iZ Pn 12 08 32.3, iZ (Sn) 12 09 17.8, (D=420 km).
- 18 eZ P 18 01 14, USCGS: H=17 49 50.8, 36.3 N, 139.8 E, h=105 km, Honshu, Japan. Felt in central and northern Honshu. M=5.0 SD 0.9 (CGS).
- 19 eZ PKP 01 29 16, USCGS: H=01 10 45.8, 6.7 S, 129.9 E, h=60 km, Banda Sea. M=5.9 SD 0.9 (CGS).
- 19 eZ P 04 13 51, eZ S 04 24 02, D=9.000 km. USCGS: H=04 01 36.7, 45.4 N, 151.3 E, h=33 km, Kurile Islands. M=6 1/2 (PAS).
- 19 iZ Pg 17 31 04.2, iZ Sg 17 31 11.4, D=60 km, weak.
- 20 eZ Pn 09 44 56, eZ (Sn) 09 45 53, (D=530 km).
- 20 eZ+ P 13 43 46, eZ (PP) 13 46 03, USCGS: H=13 31 34.0, 45.6 N, 151.4 E, h=51 km, Kurile Islands. M=5.5-5.9 (BRK), 5.7 SD 1.2 (CGS).
- 20 eZ+ P 13 53 05, USCGS: H=13 40 52.8, 45.6 N, 151.5 E, h=53 km, Kurile Islands. M=5.3 SD 0.7 (CGS).
- 20 eZ P 14 04 19, USCGS: H=13 52 05.5, 45.6 N, 151.5 E, h=32 km, Kurile Islands. M=5.4 SD 0.8 (CGS).
- 20 eZ PKIKP 19 27 08, iZ! PKHKP 19 28 12.9, eZ PKP 19 28 36, D=17.300 km, USCGS: H=19 07 25.2, 22.1 S, 170.6 E, Loyalty Islands region. h=28 km, M=5.5 SD 1.1 (CGS).
- 20 eZ P 22 36 03, BCIS: H=22 30 46 (DECM), 35.8 N, 44.1 E, Northern Iraq.
- 20 eZ P or PKP 23 19 19.
- 21 iZ Pg 17 49 45.2, iZ Sg 17 49 46.0, local, not felt.
- 21 eZ (P) 18 23 53, USCGS: H=18 11 42.2, 6.8 N, 73.0 W, h=151 km, Northern Colombia. Felt in Bogota, Cucuta and Medellin areas. M=5.4 SD 0.8 (CGS).
- 22 eZ Pn 15 04 03, eZ 15 04 45.
- 22 iZ Pn 19 15 16.5, iZ Pg 19 15 19.0, iZ Sn 19 15 37.0, iZ Sg 19 15 41.0, D=180 km. BCIS: H=19 14 51 (DECM), 46.3 N, 12.6 E, Italy. Venetian Alps.
- 22 iZ Pn 19 19 58.0, iZ Sn 19 20 19.0, D=180 km.
- 22 Z PKP 00 06 (00), USCGS: H=23 46 21, 14.8 N, 177.0 W, h=33 km, Fiji Islands region. M=4.7 SD 0.7 (CGS).
- 23 eZ PKP 00 55 30, USCGS: H=00 35 43, 17.0 S, 177.1 W, h=55 km, Fiji Islands region. M=4.8 SD 0.7 (CGS).
- 23 eZ P or PKP 02 27 46.
- 23 eZ P 05 34 28, USCGS: H=05 23 34.3, 2.8 S, 68.1 E, Carlsberg Ridge. M=5.1 SD 1.2 (CGS).
- 23 iZ Pn 13 33 31.0, iZ 13 33 37.7, iZ (Sn) 13 33 44.8, D=110 km.

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- 23 eZ (P) 15 13 39.
- 23 iZ(Pn)18 48 58.9,iZ 18 48 08.6.
- 24 eZ P 09 12 56,eZ 09 13 02.USCGS: H=09 00 19.5,6.0 S,112.3 E,h=600 km,Java Sea.M=6.7-7.2 (BRK),6.0 SD 0.7 (CGS).
- 24 eiZ P or PKP 09 15 13.3,iZ 09 16 14.6,iZ 09 19 07.8.
- 24 iZ Pn 17 39 32.0,iZ Pg 17 39 46.1,iZ Sn 17 40 21.0,iZ Sg 17 40 39.2, D=460 km.BCIS: H=17 38 15 (DECM),46.4 N,7.4 E,Valais,Switzerland.Felt in Switzerland,region of Basel. M=5.0 (Bensberg),M_{LH}=4.4 (Moxa),4 (Pruhonice).USCGS: H=17 38 18,46.6 N,7.7 E,h=33 km,Switzerland.Felt.M=4.2 SD 1.4 (CGS).
- 24 eZpPKP 23 20 57,USCGS: H=22 59 47.3,20.2 S,179.0 W,h=654 km,Fiji Islands region.M=4.7 SD 0.7 (CGS).
- 25 eZ Pn 18 22 54,eZ(Sn) 18 24 22 (D=840 km).
- 25 eZ P 23 00 12,USCGS: H=22 47 58.4,45.5 N,151.4 E,h=41 km, Kurile Islands.M=5.2-5.6 (BRK),5 3/4 (PAL),5.5 SD 0.8 (CGS).
- 26 eZ PKP 22 58 05,USCGS: H=22 39 01.5,9.3 S,148.6 E,h=14 km, East New Guinea region.M=5.3 SD 0.9 (CGS).
- 27 eZ P or PKP 08 20 07.
- 27 eZ P 08 38 48,USCGS: H=08 26 34.5,8.9 S,71.3 W,h=603 km, Western Brazil.M=5.3 SD 0.8 (CGS).
- 27 eZ P 09 09 36.USCGS: H=08 58 25.5,38.4 N,116.5 E,h=61 km, Northern China.Felt in Peking area.M=5.4 SD 0.8 (CGS).
- 27 eZ PKP 10 21 15,USCGS: H=10 01 42.0,16.5 S,168.1 E,h=11 km,New Hebrides Islands.Felt.M=6 1/4 (PAS),5.3-5.7 (BRK), 5.5 SD 0.8 (CGS).
- 27 eZ P 20 00 14,USCGS: H=19 53 41,20.0 N, 38.6 E, h=23 km, Red Sea.M=5.1 SD 1.5 (CGS).BCIS: H=19 53 38 (DECM),20.0 N, 38.4 E,Central ditch of Red Sea.
- 28 eZ Pn 15 51 50,eZ Pg 15 52 26,eZ Sn 15 53 17,Z Sg 15 54 (00),D=830 km,BCIS: H=15 49 25 (DECM),50.5 N,4.1 E,Belgium,Hainaut region.M=4.6 (Bensberg),M_{LH}=4.1 (Moxa). USCGS: H= 15 49 23,50.5 N,4.1 E, h=18 km,M=3.9 SD 1.0 (CGS).
- 28 Please reverse with above cited earthquake! eZ Pn 00 07 05,eZ 00 07 40.BCIS: H=00 04 24 (DECM),38.5 N,25.3 E, Aegean Sea.M=4 3/4,M_L=4.3 (Athens).USCGS: H=00 04 27, 38.5 N,25.3 E,h=34 km,Aegean Sea.Felt on Cyclades Islands.
- 29 eZ 22 15 28,iZ (Sg) 22 15 40.8.
- 30 eZ P 02 22 11,eiZ 02 26 30.USCGS: H=02 08 02.4,11.0 S, 115.5 E,h=33 km,South of Bali Island.M=6.0 SD 1.2 (CGS).
- 30 iZ Pn 13 50 30.1,eZ 13 50 48,iZ Sn 13 51 28.4,eZ 13 51 49. D=530 km.BCIS: H=13 49 11 (DECM),43.4 N,20.8 E,(BCIS), 43° 35' N,20° 40' E (BEO),Yugoslavia.Felt 3° MCS at

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- 30 (cont.)Belgrade,M=4.5 (BEO),4.0 (Skopje).
- 30 eZ P or PKP 19 41 05.
- 30 eZ PKP 23 24 30.USCGS: H= 23 04 46,16.9 S,176.9 W,h=33 km,Fiji Islands region.M=5.1 SD 1.1 (CGS).
- 31 eZ P 02 24 38,USCGS: H= 02 12 17.8,52.1 N,169.7 W,h=28 km,Fox Islands,Aleutian Islands.M=4.8 SD 0.9 (CGS).
- 31 eZ 03 05 49,eZ Sn 03 06 07.
- 31 eZ PKHKP 20 24 42,iZ PKIKP 20 24 47.8,USCGS: H=20 05 18.9,15.4 S,167.5 E,h=132 km,New Hebrides Islands.Felt.M=5.3 SD 0.6 (CGS).
- 31 eZ 21 39 04,iZ Sg 21 39 13.8.
- 31 Z (Pn) 23 24 (00),weak,eZ (Sn) 23 24 26,(D=290 km).

Ljubljana,February 22,1968

Interpretation:M.Hržič
Redaction: V.Ribarič

University of Ljubljana
Astronomical and Geophysical Observatory

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

IV — VI 1967

Ljubljana 1968

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

1967

PRELIMINARY SEISMOLOGICAL
BULLETIN
(April - June 1967)

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

1967

PRELIMINARY SEISMOLOGICAL BULLETIN
 from April 1 to June 30, 1967

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;

Lithological foundation: sandstone (carbon);

Instruments:

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

Constants (December 14, 1966):

Component	To	v:l	r/To	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, $D_1 = D_2 = 1$, $V_{max} =$
 $10.150x$, 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 mo-
 vement 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. Macroseismic data refer
 to Mercalli-Cancani-Sieberg scale (MCS), macroseismic rays are
 given in kilometers. Abbreviation DECM means: Determination was
 made by electronic computer.

April 1967

APRIL 1967

- 1 eZ +P 06 06 32, USCGS: H= 05 54 19.1, 45.8 N, h=40 km, Kurile
 Islands, M= 5 3/4 (PAS), 5.9-6.1 (BRK), 5 3/4 (PAL),
 5.7 SD 1.2 (CGS).
- 1 eZ +P 06 09 20, USCGS: H= 05 57 20, 46.3N, 152.0E, h=40
 km, Kurile Islands, M= 5.5 SD 0.6 (CGS).

April 1967

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April 1967

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From April 1, at 09 49 to April 1, at 11 36 no records.

- 1 eZ +P 12 35 49, USCGS: 12 23 35.5, 45.7N, 151.8E, h=40 km, Kurile Islands, M= 5 3/4 (PAS), 5.4-5.8 (BRK), 5.9 SD 0.6 (CGS).
- 2 eZ (Pn) 14 49 13, eZ Sn 14 49 22, weak.
- 3 Z P 07 45 (00), USCGS: 07 38 28.4, 19.9N, 38.5E, h=33 km, Red Sea. M= 5.1 SD= 0.9 (CGS).
- 3 eZ PKP 08 23 18, USCGS: 08 04 15.4, 6.1S, 151.5 E, h=16 km, New Britain region. M= 5.8 - 6.1 (BRK).
- 3 eZ PKP 13 18 31, USCGS: 12 58 40.9, 20.2 S, 173.7 W, h=48 km. Tonga Islands. M= 5.1- 5.5 (BRK), 5.3 SD 1.0 (CGS)
- 3 iZ -Pn 16 37 05.1, iZ Pg 16 37 13.9, iZ! 16 37 19.2, iZ Sn 16 37 45, iZ Sg 16 38 01.5, iZ!! 16 38 11.0, D= 390 km BCIS: H= 16 36 18 (DECM), 44.8N, 10.9 E, Northern Italy. Felt: 6^o-7^o in Reggio, Emilia and Sorbole (Parma), 4^o-5^o in Modena. M= 4.5cca (Roma), MLH= 3.9 (Moxa). USCGS: 16 36 19.8, 44.9N, 10.6 E, h= 33 km. Northern Italy. Felt in Reggio, Emilia, Modena and Parma. M= 4.7 SD 1.3 (CGS).
- 4 eZ P 03 51 40, USCGS: 03 47 19, 40.9 N, 26.2 E, h= 33 km. Turkey. M=4.3 SD 0.6 (CGS).
- 4 Z Pn 17 02 (00), eZ Sn 17 04 12, iZ! 17 04 34.0, D= 1240 km. BCIS: H= 16 59 05 (DECM), 35.5N, 23.4 E, h= 75 km. Mediterranean Sea, west of Crete. M= 4.8 (Athens). USCGS: 16 59 04.1, 35.4 N, 23.6 E, h=71 km. Crete. M= 4.8 SD 1.3 (CGS).
- 4 eZ P 18 08 06, BCIS: H= 18 06 05, (DECM), 45.8 N, 26.3 E, h= 160 km. Rumania, Vrancea region. USCGS: 18 06 04.3, 45.7 N, 26.2 E, h=131 km. M= 4.7 SD 0.9 (CGS).
- 5 eZ P 02 48 (00), eZ PP 02 52 10, D = 11100 km. USCGS: H= 02 34 11.1, 20.0 N, 147.1 E, h=50 km. Mariana Islands region. M= 5.6-5.8 (BRK), 5.9 SD 0.7 (CGS).
- 5 iZ Pg 12 59 26.4, iZ Sg 12 59 30.0, D= 24 km, weak.
- 5 eZ P 13 03 47, BCIS: H=12 57 11 (DECM), 29.9 N, 51.0 E, Western Iran. USCGS: H= 12 57 14.0, 30.1 N, 50.9 E, h=10 km. Iran. M= 5.4 SD 0.8 (CGS).
- 5 eZ PKP 22 49 0.8, USCGS: H= 22 29 35.5, 53.2 S, 140 6 E, h= 33 km. West of Macquarie Island. M= 5.0 SD 0.8 (CGS).
- 6 iZ Pn 13 47 15.5, iZ Sn 13 48 11.5, iZ Sg 13 48 34.3, D= 500 km. BCIS: H= 13 46 08, 42 3/4 N, 19.0 E, Montenegro, Yugoslavia. Felt 5^o in Nikšić, Šavnik and Žabljak.
- 7 eZ P 17 11 28, BCIS: H= 17 07 14 (DECM), 37.3 N, 36.2 E,

(cont.) Southeastern Anatolia. Strongly felt on the region of Maras and Adana. 91 buildings destroyed. Damage in villages Bahce, Kozanli and Andirin. MLH= 5 - 5 1/4 (Strasbourg), 4.5 (Collm). USCGS: H= 17 07 16.2, 37.4 N, 36.1 E, h=49 km. Turkey, some damage at Bahce, Kozanli and Andirin.

- 7 iZ P 18 37 45.4, BCIS: H= 18 33 31, 37.3 N, 36.4 E, Southeastern Anatolia. Strongly felt on the region of Maras and Adana. Damage in villages Bahce, Kozanli and Andirin. USCGS: H=18 33 31.3, 37.4 N, 36.2 E, h=39 km. Turkey, some damage at Bahce, Kozanli and Andirin. M= 5.0 SD 0.8 (CGS).
- 9 iZ Pn 07 07 16.1, iZ Pg 07 07 19.3, iZ Sn 07 07 41.7, iZ Sg 07 07 47.6, D= 220 km, BCIS: H= 07 06 39, (DECM), 45.9 N, 10.9 E, Northern Italy. Region of Garda Lake.
- 9 eZ PKP 09 15 44, USCGS: H= 08 56 42.1, 7.0 S, 156.0 E, h= 33 km. Solomon Islands. M= 4.5 SD 1.2 (CGS).
- 9 eZ PKP 09 16 06, USCGS: H= 08 56 59.7, 7.2 S, 155.8 E, h= 40 km. Solomon Islands. Felt at Buin, M= 5.1 SD 0.7 (CGS).
- 10 eZ PKIKP 00 16 59, eZ PKP2 00 17 13, USCGS: H= 23 57 24.9, 17.7 S, 173.0W, h= 70 km. Tonga Islands region, M= 5.0-5.4 (BRK), 4.9 SD 1.1 (CGS).
- 10 eZ P or PKP 03 16 15, traces.
- 10 eZ PKP 05 19 02, USCGS: H= 04 59 53.9, 7.4 S, 155.7 E, h= 37 km. Solomon Islands. Felt at Buin. M= 6 (PAS), 5.2- 5.6 (BRK), 5.5 SD 1.0 (CGS).
- 10 eZ PKP 15 21 15, USCGS: H= 15 02 42.2, 7.3 S, 155.8 E, h= 29 km. M= 6 1/4 (PAS), 5.2 - 5.6 (BRK), 5.6 SD 1.0 (CGS). Solomon Islands, felt at Buin.
- 10 eZ +P 20 09 09, USCGS: H= 19 57 34.4, 58.6 N, 154.3 W, h= 86 km. Alaska, Peninsula. M= 5.5 SD 0.7 (CGS).
- 10 eZ P or PKP 21 04 45.
- 10 eZ PKP 22 08 25, USCGS: H= 21 49 19.5, 7.3S, 155.9 E, h= 39 km. Solomon Islands. Felt at Buin. M= 5.3 SD 1.0 (CGS).
- 11 eZ P 12 53 43, USCGS: H= 12 42 47.7, 18.8 N, 62.7 W, h=49 km. Leeward Islands. M= 5.2 SD 1.0 (CGS).
- 12 eZ P 04 51 04, eZ 04 51 43, USCGS: H= 04 40 53.0, 19.3 N, 63.6W, h= 38 km. Leeward Islands. M= 4.5 SD 1.1 (CGS).
- 12 iZ +P 05 03 48.3, iZ!! 05 03 56.4, USCGS: H= 04 51 40.2, 5.3 N, 96.5E, h= 55 km. Northern Sumatra. Minor damage at Penang, Malaysia. M= 6 1/2 (PAS), 6 (BRK), 6 3/4- 7 (GOL), 6.1 SD 1.2 (CGS).

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- 12 eZ +P 05 23 27.5, USCGS: H= 05 11 14.1, 5.5 N, 96.7E, h= 33 km. Northern Sumatra. M= 5.7 SD 0.6 (CGS).
- 12 eZ PKP 14 05 10.5, USCGS: H= 13 46 05.0, 7.5S, 155.8E, h= 49 km. Solomon Islands. M= 5.1 SD 0.8 (CGS).
- 12 Z PKP 14 14 (00), eZ (PP) 14 17 23, USCGS: H= 13 54 57.2, 7.3 S, 155.6E, h= 52 km. Solomon Islands. M= 4.9-5.3 (BRK), 5.2 SD 0.8 (CGS). D = 14500 km.
- 12 eZ P 19 37 27, USCGS: H= 19 28 55, 14.4 N, 56.7 E, h=33 km. Arabian Sea. M= 4.7 SD 1.2 (CGS).
- 12 eZ +P 19 45 56 USCGS: H= 19 33 47.3, 5.2N, 96.7 E, h= 56 km. Northern Sumatra. M= 5.2 SD 1.0 (CGS).
- 13 Z PKP 04 34 (00), USCGS: H= 04 14 33.6, 18.7S, 168.8 E, h= 123 km. New Hebrides Islands. M= 5.2 SD 0.9 (CGS).
- 13 eZ +P 08 37 51, USCGS: H= 08 25 43.8, 5.5 N, 96.6 E, Northern Sumatra. M= 5.2 SD 0.7 (CGS).
- 13 eZ 11 41 09, traces.
- 13 eZ PKP 17 32 27, USCGS: H= 17 13 43.5, 18.0 S, 178.6 W, h= 610 km. Fiji Islands, M= 5.0 SD 0.7 (CGS) .
- 13 eiz +P 20 06 19, USCGS: H= 19 53 42.4, 27.3N, 128.7 E, h= 38 km. Ryukyu Islands. M= 6.0 SD 0.7 (CGS).
- 15 iZ Pn 02 08 39.8, iZ Pg 02 08 44.1, iZ Sn 02 09 05.7, iZ Sg 02 09 12.2, iZ!! 02 09 21.7, D = 240 km. BCIS: H= 02 08 04 (DECM), 44.3 N, 16.3 E, Yugoslavia.
- 16 iZ Pg 07 14 29.1, iZ Sg 07 14 36.4, D = 56 km.
- 16 eZ (Sn) 07 07 57, Weak.
- 16 eZ P 10 04 23, USCGS: H= 09 55 01, 0.1 N, 17.3 W, h= 33 km. North of Ascension Islands. M= 4.8 SD 1.2 (CGS).
- 16 eZ (P) 10 22 20, Obscured by microseisms. USCGS: H= 10 10 06.7, 46.4 N, 153.3 E, h= 24 km. Kurile Islands. M= 5.3 SD 0.8 (CGS).
- 16 eZ (P) 18 16 22, weak.
- 17 eZ PKP 11 37 44, USCGS: H= 11 18 19.3, 12.5 S, 166.3 E, h= 45 km. Santa Cruz Islands. M= 4.9 SD 0.8 (CGS),
- 17 eZ Pn 15 24 55, iZ Sn 15 25 16.4, D = 180 km.
- 17 eZ P 21 42 05, USCGS: H= 21 37 54.5, 34.6 N, 33.0 E, h= 33 km. Cyprus. M= 4.8 SD 1.1 (CGS).

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- 18 eZ Pg 12 06 01, eZ Sg 12 06 05, D = 33 km.
- 18 eZ 18 17 51, traces.
- 19 Z P 14 01 (00), eZ 14 01 54.
- 19 eZ P 22 08 20, USCGS: H= 21 57 05.1, 18.8 N, 69.6 W, h= 103 km. Dominican Republic region. M= 5.0 SD 0.8 (CGS).
- 20 eZ P 04 15 50, BCIS: H= 04 08 00, 50.0 N, 78.1 E, Kazakhstan, Semipalatinsk region. Probably artificial. MPV = 6.0 (Collm), M= 5.9 (Uppsala). USCGS: H= 04 07 57.6, 49.7 N, 78.1 E, h= 0 km. Eastern Kazakh SSR. M= 5.7 SD 0.8 (CGS).
- 20 eZ 04 33 59, weak.
- 21 eZ Pg 07 34 27, iZ Sg 07 34 30.5, D = 27 km.
- 21 eZ PKP 08 32 57, USCGS: H= 08 14 25.0, 5.4 S, 126.9 E, h= km. Banda Sea. M= 6 1/4 (PAS), 6.4- 6.6 (BRK).
- 21 eZ (Pn) 10 48 30, eZ 10 49 30, traces.
- 22 eZ +P 13 19 48, USCGS: H= 13 07 38.1, 5.1 N, 96.4 E, h= 42 km. Northern Sumatra. M= 5.4 SD 1.1 (CGS).
- 23 eZ Pn 08 38 50, eZ Sn 08 39 30, D = 370 km.
- 23 eZ 12 22 17, eZ (Sn) 12 22 31.
- 24 iZ -P 08 59 13.1, USCGS: H= 08 51 10.9, 37.4N, 72.7 E, h= 31 km. Tadzhik SSR. M= 5.6 SD 0.7 (CGS).
- 25 eZ P 10 39 37, USCGS: H= 10 30 37.8, 43.3 N, 87.0 E, h= 34 km. Northern Sinkiang Prov., China. M= 5.2 SD 0.6 (CGS).
- 26 iZ Pg 21 36 29.0, iZ Sg 21 36 40.4, D = 93 km.
- 26 eZ PKP 22 06 12, USCGS: H= 21 46 41, 16.5 S, 175.6 E, h= 116 km. Fiji Islands region. M= 4.8 SD 0.9 (CGS).
- 29 eZ P 04 07 38, USCGS: H= 03 55 20.8, 51.4 N, 178.3 W, h= 50 km. Andreanof Islands, Aleutian Islands. Felt on Adak. M= 6.0 SD 0.8 (CGS).
- 29 eZ 21 20 08, eZ Sg 21 20 14, weak.

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MAY 1967-

- 1 Z NE Pn 07 11 (00), iZ 07 11 54.9, iZ Sn 07 12 29.3, iNE 07 13 35.0, iZ!! Rg 07 14 13.6, D = 910 km. BCIS: H= 07 09 02 (DECM), 39.5 N, 21.2 E, Northwestern Greece. 9 killed, 40 injured, many hundred buildings damaged in the region

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(cont.) of Trikkala, Karditsa and Jannina (Press). MLH= 6.6 (Strasbourg), M= 6.4 (Athens); MLH= 6.3 (Collm, Moxa); M= 6.2 (Uppsala); MLH= 6 (Pruhonice); M= 6 (Beograd). USCGS: H= 07 09 00.5, 39.7 N, 21.3 E, h= 15 km. Greece. At least 9 killed. More than 54 injured and extensive property damage in the northwestern Greece area. M= 5 3/4-6 (PAS), 5.8-6.2 (BRK), 5 3/4 -6 (GOL), 5 1/2 (PAL), 5.6 SD 0.8 (CGS).

- 1 eZ Pn 08 17 42, iZ Sn 08 19 12.9, D = 910 km. BCIS: H= 08 15 45, (DECM), 39.7 N, 21.0 E, aftershock of the seism of May 1, 1967 at 07 09 02.
- 1 eZ (Pn) 08 30 20, eZ Sn 08 32 53, aftershock.
- 1 eZ Pn 09 49 41, iZ Sn 09 51 25.2, D = 920 km. BCIS: H= 09 47 42, (DECM), 39.5 N, 21.2 E, aftershock.
- 1 iZ Pn 09 52 05.6, iZ Sn 09 54 39.0, D = 900 km. BCIS: H= 09 50 08 (DECM), 39.5 N, 21.2 E, MLH= 4.8 (Collm), ML= 5.0 (Athens). Aftershock.
- 1 Z Pn 14 40 (00), eZ Sn 14 41 35, D = 900 km. BCIS: H= 14 38 04 (DECM), 39.4N, 21.1 E, aftershock.
- 1 eZ Pn 16 42 04, eZ Sn 16 43 37, D = 900 km. BCIS: H= 16 40 06 (DECM), 39.5 N, 21.4 E, aftershock.
- 1 eZ Pn 18 12 02, eZ Sn 18 13 36, D = 900 km. Aftershock.
- 2 eZ Pn 01 29 17, eZ Sn 01 30 48, D = 900 km. BCIS: H= 01 27 22 (DECM), 39.6 N, 21.2 E, aftershock.
- 2 eZ Pn 08 13 55, eZ Sn 08 15 31, BCIS: H= 08 11 56 (DECM), 39.4 N, 21.6 E, ML= 4.0 (Athens). Aftershock.
- 2 eZ Pn 19 31 25, iZ Sn 19 33 04.2, D = 900 km. BCIS: H= 19 29 26 (DECM), 39.6 N, 20.9 E, M= 3.8 (Athens). Aftershock.
- 3 iZ Pn 18 43 43.7, iZ 18 44 05.4, iZ Sn 18 45 17.9, D = 910 km. BCIS: H= 18 41 46 (DECM), 39.6 N, 21.2 E, damage in the region of Trikkala (Press). ML= 4.5 (Athens).
- 4 eZ (Pn) 04 48 35, iZ 04 48 37.0, weak.
- 4 eZ Pn 08 55 19, iZ Pg 08 55 42.3, eZ (Sn) 08 56 56, eZ Sg 08 57 28, D = 910 km. Aftershock of the seism of May 1, at 07 09.
- 4 eZ (Pn) 13 15 30, eZ Sn 13 17 05.3, eZ Sg 13 17 47, D = 910 km. Aftershock.
- 4 eZ Pn 13 33 03, iZ Pg 13 33 25.3, eZ Sn 13 34 38, eZ Sg 13 35 12, D = 910 km. BCIS: H= 13 31 07 (DECM), 39.6 N, 21.2 E, ML= 4.0 (Athens). Aftershock.

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- 5 eZ Pn 06 28 33, eZ Sn 06 30 11, iZ Sg 06 30 46.0, D = 910 km. BCIS: H= 06 26 37 (DECM), 39.6 N, 21.3 E. Aftershock.
- 5 iZ Pg 07 28 54.2, iZ Sg 07 29 01.8, D = 56 km.
- 5 Z Pn 14 52 (00), eZ Sn 14 53 33, D = 910 km. Aftershock of the seism of May 1, at 07 09.
- 5 eZ Pn 16 00 34, eZ Sn 16 02 04, D = 910 km. Aftershock.
- 5 eZ P 17 51 38, eZ PP 17 55 26, D = 11600 km. USCGS: H= 17 38 05.3, 8.0 S, 107.2 E, h=33 km. Java. M= 5.3 SD 1.0 (CGS).
- 5 eZ Pn 20 20 33, eZ Sn 20 22 10, D = 910 km.
- 6 eZ P 14 12 09, USCGS: H= 14 00 41.4, 19.3 N, 70.0 W, h=39 km. Dominican Republic region, M= 5.3 SD 0.8 (CGS).
- 8 eZ P 18 55 38, USCGS: H= 18 48 04.8, 36.4 N, 70.2 E, h= 215 km. Hindu Kush region. M= 4.8 SD 0.5 (CGS).
- 8 eZ PKP 19 04 57, USCGS: H= 18 44 56.8, 33.2S, 178.4 W, h= 50 km. South of Kermadec Islands. M= 5.3 SD 0.7 (CGS).
- 9 eZ 00 11 13, traces.
- 9 Z P 04 08 (00), eZ S 04 10 36, eZ 04 11 04, D= 1400 km. USCGS: H= 04 05 11.2, 39.6 N, 27.0 E, h= 29 km. Turkey. Felt at Ayralik, Canakkale, Bayranic and Edremit. M= 4.5 SD 0.6 (CGS).
- 9 eZ P 06 26 54, eZ 06 27 23, USCGS: H= 06 14 57.1, 44.2 N, 149.0 E, h= 40 km. Kurile Islands. M= 5.3 SD 0.9 (CGS).
- 9 eZ 07 26 (44), eZ (Sn) 07 27 56, (D = 620 km.).
- 9 eZ Pn 08 02 41, eZ 08 04 05, iZ Sn 08 04 12.9, D = 890 km. USCGS: H= 08 00 48, 39.8 N, 21.5 E, h= 54 km. Greece. M= 4.5 SD 1.8 (CGS).
- 9 eZ 10 12 56, eZ 10 13 38, traces.
- 10 eiZ -Pn 05 22 50, eZ (Sn) 05 23 18, D = 250 km. BCIS: H= 05 22 00, 44.6 N, 104 E, Apennins, south of Parma, Italy.
- 10 eZ (Pn) 07 51 33, eZ 07 51 49, Weak. BCIS: H= 07 51 02, 47.8 N, 14.2 E, Felt 5° south of Klaus, Austria.
- 10 iZ P 17 52 32.4, USCGS: H= 17 40 06.7, 23.7 N, 121.5 E, h= 44 km. Taiwan. M= 5.1 SD 0.8 (CGS).
- 11 eZ P 14 58 59, iZ 14 59 03.7, USCGS: H= 14 50 58.8, 39.4 N, 73.8 E, h= 21 km. Tadzhik-Sinkiang border region. M= 5.6 SD 0.7 (CGS).

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- 11 eZ P 15 18 57, eZ PP 15 22 58, D = 10900 km. USCGS: H= 15 05 16.8, 20.3 S, 68.5 W, h= 67 km. Chile - Bolivia border region. Felt at Iquique and Tocopilla, Chile. M= 6 3/4 (PAS), 5 1/4 - 5 1/2 (GOL), 6.1 SD 0.6 (CGS).
- 12 eZ P 05 29 09, eZ 05 29 12, USCGS: H= 05 21 04.8, 39.5 N, 73.8 E, h= 5 km. Tadzhik- Sinkiang border region. M= 4.9 SD 0.9 (CGS).
- 12 eZ Pn 17 54 12, iZ Pb 17 54 17.9, iZ Pg 17 54 25.3, iZ Sn 17 54 57.8, iZ Sg 17 55 11.5, D = 420 km. BCIS: H= 17 53 24 (DECM), 44.6 N, 10.4 E, Apennins. South of Parma. MLH= 3.8 (Pruhonice). USCGS: H= 17 53 23.1, 44.7 N, 10.4 E, h= 39 km. Northern Italy. M= 4.2 SD 1.1 (CGS).
- 13 eZ P 05 30 50, USCGS: H= 05 18 55.4, 56.5 N, 152.6 W, h= 33 km. Kodiak Islands region. M= 4.7 - 4.9 (BRK), 5.3 SD 0.8 (CGS).
- 13 eZ (Pn) 20 10 07, eZ 20 10 27, traces.
- 14 eZ Pn 04 18 15, iZ 04 19 28.7, iZ 04 19 28.7, iZ 04 20 01.0, BCIS: H= 04 15 58 (DECM), 37.6 N, 21.0 E, h= 50 km. Ionian Sea. ML= 4.5 (Athens). USCGS: H= 04 16 01.7, 37.7 N, 21.2 E, h= 66 km. Southern Greece. M= 4.8 SD 1.2 (CGS).
- 14 eZ P 09 08 56, USCGS: H= 09 00 54.8, 39.2 N, 73.9 E, h= 33 km. Tadzhik - Sinkiang border region. M= 5.0 SD 0.7 (CGS).
- 15 eZ P 02 40 24, USCGS: H= 02 27 36.8, 32.5 N, 141.4 E, h= 40 km. South of Honshu, Japan. M= 5.4 SD 0.9 (CGS).
- 15 eZ Pn 08 16 21, iZ 08 16 31.5, eZ Sn 08 18 57, eZ 19 17, D = 1470 km. BCIS: H= 08 12 56 (DECM), 34.6 N, 26.9 E, Mediterranean Sea. Southeast of Crete. MLV= 5.2 (Moxa), MLH= 5.1 (Strasbourg), 5.0 (Moxa), 4.9 (Pruhonice). USCGS: H= 08 12 57.1, 34.6 N, 26.7 E, h= 33 km. Crete. M= 4.9 SD 1.6 (CGS).
- 15 eZ Pn 10 04 24, iZ Pb 10 04 30.4, iZ Pg 10 04 38.8, iZ Sn 10 05 10.6, iZ Sg 10 05 23.4, BCIS: H= 10 03 34 (DECM), 44.6 N, 10.4 E, Apennins, south of Parma. D = 420 km.
- 16 eZ Pg 13 26 20, iZ Sg 13 26 34.6, D = 180 km.
- 16 eZ PKP 16 34 08, USCGS: H= 16 14 22.9, 15.2 S, 173.5 W, h= 33 km. Tonga Islands. Felt at Apia. M= 5.2 SD 0.7 (CGS).
- 16 eZ Pn 21 18 06, eZ Sn 21 19 15, D = 630 km. BCIS: H= 21 16 34, 42.9 N, 20.3 E, Yugoslavia. M= 3.9 (Beograd), 3.7 (Sko pje).
- 17 eZ PKP 16 33 13, USCGS: H= 16 13 37.6, 16.6 S, 175.5 E, h= 80 km. Fiji Islands region. M= 4.8 SD 0.7 (CGS).

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- 18 eZ +P 11 34 48, USCGS: H= 11 22 31.6, 41.9 N, 144.7 E, h= 41 km. Hokkaido, Japan region. M= 4.9 SD 0.9 (CGS).
- 18 eZ P 23 51 42, USCGS: H= 23 39 15.2, 31.1 N, 130.7 E, h= 43 km. Kyushu, Japan. M= 5.6 SD 0.4 (CGS).
- 19 eZ PKP 05 29 11, USCGS: H= 05 09 10.9, 34.9 S, 179.0 W, h= 35 km. South of Kermadec Islands. M= 5.1 SD 0.6 (CGS).
- 19 eZ P or PKP 13 11 01.
- 19 eZ P 15 59 56, BCIS: H= 15 52 39, (DECM), 14.7 N, 40.1 E, Ethiopia, near Red Sea. USCGS: H= 15 52 34.2, 14.5 N, 40.3 E, h= 13 km. Ethiopia. M= 5.1 SD 0.5 (CGS).
- 20 eZ P or PKP 01 01 14, weak.
- 20 eZ P 15 13 41.
- 21 iZ +P 18 57 46.6, iZ pP 18 58 30.2, iZ (S) 19 08 11, D = 10500 km. USCGS: H= 18 45 11.7, 1.0 S, 101.5 E, h= 173 km. Southern Sumatra. M= 6 3/4 (PAS), 6.1 - 6.3 (BRK), 6.3 SD 0.9 (CGS).
- 22 iZ Pn 05 07 03.8, eZ Sn 05 08 02.6, iZ! 05 08 13.2, D = 560 km. Skadar Lake region. I₀ = 4°, Felt 3° in Titograd.
- 23 eZ P or PKP 01 04 39, weak.
- 23 eZ P 02 04 56, USCGS: H= 01 52 39.1, 44.6 N, 150.5 E, h= 22 km. Kurile Islands. M= 4.9 SD 0.5 (CGS).
- 23 eZ +P 08 47 31, USCGS: H= 08 34 35.8, 3.1 S, 101.5 E, h= 59 km. Southern Sumatra. M= 5.3 SD 0.9 (CGS).
- 23 eZ 14 12 41, traces.
- 25 iZ Pg 12 00 52.4, iZ Sg 12 01 01, D = 60 km.
- 25 iZ Pg 12 07 41, iZ Sg 12 07 48.0, D = 60 km.
- 25 iZ Pg 12 30 38.0, iZ Sg 12 30 45.4, D = 60 km.
- 27 eZ P 01 51 04, USCGS: H= 01 42 47.1, 39.9 N, 77.3 E, h= 33 km. Southern Sinkiang Prov., China. M= 5.4 SD 0.7 (CGS).
- 27 Z P 01 58 (00), BCIS: H= 01 54 24 (DECM), 35.7 N, 00.2 W, Algeria. Felt 5° in Mostaganem and Arzew. USCGS: H= 01 54 26.0, 35.8 N, 00.3 W, h= 28 km. Algeria. Felt in Mostaganem and Mascara area. M= 4.7 SD 1.1 (CGS).
- 27 eZ 04 00 00, eZ (Sn) 04 01 30, weak.
- 27 eZ P 12 50 47, USCGS: H= 12 42 54.1, 36.2 N, 71.5 E, h= 109 km. Afghanistan-USSR border region. M= 4.9 SD 1.1 (CGS).

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- (cont.) eiZ +P 17 35 12.7, eZ S 17 45 40, D = 9400 km.
 USCGS: H= 17 22 58.7, 51.9 N, 176.1 E, h= 34 km. Rat
 Islands, Aleutian Islands. M= 6 (PAS), 5.8 (BRK), 6- 6 1/4
 (PAL), 5.8 SD 0.9 (CGS).
- 27 eZ -P 19 14 22, eZ PP 19 16 12, eZ (S) 19 20 11, D= 4500
 km. USCGS: H= 19 05 48.5, 36.1 N, 77.8 E, h= 35 km. Kash-
 mir- Sinkiang border region. M= 5.4 SD 0.6 (CGS).
- 28 eZ P 01 44 07.5, USCGS: H= 01 31 56.7, 52.1 N, 175.0 E, Rat
 Islands, Aleutian Islands. h= 45 km. M= 5.2 SD 1.0 (CGS).
- 29 iZ Pg 06 16 19.3, iZ 06 16 21.8, D = 15 km, very weak.
- 29 eZ PKIKP 11 29 13.2, eiZ PKHKP 11 29 20, eZ PKP2 11 29 28,
 D = 16900 km. USCGS: H= 11 09 54, 19.2 S, 176.3 W, h=236
 km. Fiji Islands region. M= 5.1 SD 0.6 (CGS).
- 29 eZ 19 22 (00), weak. USCGS: H= 19 19 23, 40.2 N, 38.5 E,
 h= 36 km. Turkey.
- 29 eZ +P 21 13 51, USCGS: H= 21 01 44.3, 43.3 N, 145.7 E, h=
 88 km. Hokkaido. Japan region. M= 5.3 SD 1.1 (CGS).
- 30 00 00 02, iZ 00 00 29.4, very weak, BCIS: H= 23 53 31,
 (DECM), 34.1 N, 28.7 E, h= normal. Mediterranean Sea,
 southeast of Crete.

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- 1 eZ P 10 42 47, eZ S 10 45 52, D = 1660 km. BCIS: H= 10 39
 19, (DECM), 36.8 N, 29.2 E, Central Turkey. Felt in Bodrum
 Isparta, Denizli, Usak. (Istanbul); MPH,MSH= 6.7 (Collm),
 MLH= 6.3 (Collm), 5.0 (Athens,Strasbourg), 4.6 (Moxa, Pru-
 honice), USCGS: H= 10 39 22.8, 36.9 N, 29.2 E, h= 36 km.
 Turkey. Felt at Denizli, Bodrum and Isparta. M= 5.0 SD 0.8
 (CGS).
- 1 eZ PKP 21 07 50, USCGS: H= 20 47 45.6, 6.8 S, 155.0 E, h=
 31 km. Solomon Islands. Felt at Buin. M= 5.6 SD 1.0 (CGS).
- 2 Z P 05 16 (00), BCIS: H= 05 10 53, (DECM), 44.1 N, 47.7 E,
 Western coast of Caspian Sea. USCGS: H= 05 10 54.9, 43 N,
 47.5 E, h= 28 km. Eastern Caucasus. M= 5.0 SD 0.9 (CGS).
- 2 eZ +P 06 41 24.5, USCGS: H= 06 31 28.2, 00.9 N, 28.4 W, h=
 33 km. Central Mid - Atlantic Ridge. M= 4 3/4 (PAL), 5.0
 SD 1.1 (CGS).
- 2 iZ pg 13 51 12.0, iZ Sg 13 51 14.9, D = 20 km, weak.
- 2 eZ Pn 20 22 10, eZ (Sn) 20 23 34, (D = 800 km.), traces.

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- (cont). BCIS: H= 20 20 23, (DECM), 38.9 N, 14.9 E, h=265
 km. Tyrrenian Sea. USCGS: H= 20 20 22, 38.7 N, 14.8 E, h=
 259 km. Sicily. M= 4.0 SD 0.9 (CGS).
- 3 eZ +P 09 20 38, USCGS: H= 09 08 56.4, 58.4 N, 151.2 W, h=
 32 km. Kodiak Island region. M= 4.8- 5.2 (BRK), 5- 5 1/4
 (PAL), 5.5 SD 0.8 (CGS).
- 3 eZ 16 29 34, eZ 16 31 04, eZ 16 32 51, weak, BCIS: H= 16
 27 02, 39.0 N, 24 3/4 E, Aegean Sea. ML= 4.2 (Athens).
- 3 eZ 21 52 58, iZ (Sn) 21 53 12.0.
- 4 eZ +P 05 38 46, USCGS: H= 05 26 44.6, 51.4 N, 159.3 E, h=
 9 km. Off east coast of Kamchatka. M= 4.8 SD 0.6 (CGS).
- 4 eZ (Sn) 06 55 44, traces.
- 5 eZ +PKP 01 41 11, USCGS: H= 01 21 20.2, 21.3 S, 174.5 W,
 h= 33 km. Tonga Islands. M= 5.0- 5.2 (BRK), 5.2 SD 0.9
 (CGS).
- 5 eZ (Pn) 10 15 08, eZ 10 16 33, traces.
- 5 eZ P 16 50 34, USCBS: H= 16 38 36.2, 51.5 N, 159.1 E, h=
 33 km. Off coast of Kamchatka. M= 4.5 SD 0.7 (CGS).
- 6 eZ 02 57 16, traces.
- 6 eZ PKP 06 54 14, USCGS: H= 06 35 16.1, 6.2S, 152.0 E, h=
 58 km. New Britain region. M= 5.4 SD 0.9 (CGS).
- 6 eZ Pn 08 28 30, eZ (Sn) 08 28 59, (D = 270 km.), weak.
- 6 eZ PKP 09 49 48, USCGS: H= 09 30 26.7, 10.8 S, 165.3 E, h=
 33 km. Santa Cruz Islands. M= 5.1 SD 0.8 (CGS).
- 6 eZ 21 17 15, eZ Sg 21 17 18.2, traces.
- 7 eiZ Pn 01 50 04.4, iZ 01 51 30.4, eZ 01 51 52.
- 7 eZ P 03 03 18, USCGS: H= 02 57 49, 63.8 N, 19.0 W, h= 33
 km. Iceland. M= 4.5 SD 1.3 (CGS).
- 7 eZ Pn 09 36 53, eZ (Sn) 09 38 27, (D = 900 km.).
- 7 eZ 15 57 58, eZ 15 58 10, weak. BCIS: H= 15 54 35 (DECM)
 34,5 N, 26,6 E. Mediterranean Sea, southeast of Crete.
- 7 iZ Pn 16 19 58.2, iZ 16 20 10.0, iZ Sn 16 20 22.5, D = 200
 km. BCIS: H= 16 19 25 (DECM), 47.9 N, 14.3 E, h= normal.
 Molln region, Austria. MLH= 3.2 (Pruhonice).
- 7 eZ 20 00 47, eZ (Sn) 20 01 06, traces.

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- 8 eZ PKIKP 13 40 47, iZ! PKHKP 13 40 51.1, iZ PKP2 13 40 56.6
D = 16400 km. USCGS: H= 13 22 13.7, 21.4 S, 170.3 E, h=
90 km. Loyalty Islands region. M= 5.3 SD 1.2 (CGS).
- 8 eZ Pn 21 12 36, eZ Sn 21 13 36, D = 560 km. BCIS: H= 21 10
57, 43.5 N, 20.8 E, Yugoslavia. Felt 4^o-5^o in Vrnjačka Ba-
nja. M= 4.0 (Beograd), 3.8 (Skopje).
- 8 iZNE Pg 21 27 22.2, iZNE Sg 21 27 23.8, D = 15 km. BCIS:
H= 21 27 20, 46.0N, 14.8 E, Yugoslavia. Felt 4^o-5^o in Lju-
bljana.
- 9 eZ (Pg) 16 03 05, eZ Sg 16 03 21, (D = 135 km.)
- 10 eZ (Pn) 04 43 49, eZ 04 43 56, iZ 04 44 35.0, weak. BCIS:
H= 04 42 49 (DECM), 44.6 N, 10.5 E, Emilia, Italy.
- 10 eZ PKP 05 45 07, eZ 05 45 34, USCGS: H= 05 26 44.4, 41.3
S, 73.6 W, h= 37 km. Near coast of southern Chile. M= 5.7
SD 1.0 (CGS).
- 10 eZ P 05 55 26, USCGS: H= 05 45 53, 3.6 S, 12.1 W, h= 12 km.
North of Ascension Island. M= 5.1 SD 1.1 (CGS).
- 10 eZ P or PKP 12 17 38, Weak.
- 10 eiZ Pn 12 52 45, iZ 12 53 11.6, eZ 12 53 32.
- 10 eZ PKIKP 14 17 35, iZ! PKHKP 14 17 41.3, iZ PKP2 14 17
48.3, eZpPKP 14 19 02, D = 16900 km. USCGS: H= 13 58 53.3
19.3 S, 178.2 W, h= 596 km. Fiji Islands region. M= 5.1
SD 0.6 (CGS).
- 10 eZ P 18 14 34, USCGS: H= 18 04 39.6, 16.4 N, 46.6 W, h= 33
km. North Atlantic ridge. M= 4.9 SD 1.0 (CGS).
- 11 eZ Pn 05 37 33, eZ 05 38 32, eZ (Sn) 05 39 19, (D = 1020
km.) BCIS: H= 05 35 04 (DECM), 38.1 N, 22.9 E, Gulf of Co-
rinth, Greece. USCGS: H= 05 35 04, 38.1 N, 22.9 E, h= 37
km. Greece. M= 4.4 SD 1.5 (CGS).
- 12 Z P 00 15 (00), USCGS: H= 00 05 06.5, 16.6 N, 46.6 W, h=
33 km. North Atlantic ridge. M= 5.1 SD 1.0 (CGS).
- 12 Z PKP 01 09 (00), USCGS: H= 00 48 59.2, 21.1 S, 174.4 W,
h= 13 km. Tonga Islands. M= 5.1 SD 0.9 (CGS).
- 12 eZ Pn 01 31 (38), eZ Sn 01 33 30, D = 1070 km. BCIS: H =
01 29 06 (DECM), 37 3/4 N, 22 3/4 E, Greece. USCGS: H= 01
29 06.9, 38.2 N, 22.8 E, h= 27 km. M= 4.5 SD 1.5 (CGS).
- 12 eZ Pn 02 53 22, iZ 02 54 48.6, iZ Sn 02 55 10.1, D = 1050
km. BCIS: H= 02 51 05 (DECM) 38.1 N, 22.8 E, Greece. ML=
45(Athens). USCGS: H= 02 51 05.5, 38.2 N, 22.7 E, h= 33
km. M= 4.8 SD 1.1 (CGS).

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- 12 eZ P 03 20 34, USCGS: H= 03 07 38.8, 3.0 S, 100.6 E, h=33
km. Southern Sumatra. M= 5.1 SD 1.0 (CGS).
- 12 eZ PKP 03 25 11, USCGS: H= 03 05 34.1, 18.0S, 167.7 E, h=
8 km. New Hebrides Islands. Felt at Port Vila. M= 4.8 SD
1.3 (CGS).
- 12 eZ (Pn) 11 03 25, Z Sn 11 05 00, BCIS: H= 11 00 15 (DECM)
37 3/4 N, 22 3/4 E, Greece. USCGS: H= 1100 15, 37.3 N,
23.1 E, h= 33 km. Southern Greece. M= 4.5 SD 1.1 (CGS).
- 12 eZ (Pn) 11 27 23, weak.
- 12 eZ Pn 18 14 47, eZ (Sn) 18 16 13. (D = 800 km.) BCIS: H=
18 12 48, (DECM), 39.2 N, 21.5 E, Greece. USCGS: H= 18
12 47.4, 39.2 N, 21.4 E, h= 55 km. Greece. M= 4.5 SD 1.2
(CGS).
- 12 eZ P or PKP 21 30 45.
- 12 eZ Pn 23 08 08, eZ 23 08 50.
- 12 eiZ 23 34 52.0, USCGS: H= 23 22 45.3, 47.4 N, 154.3 E, h=
56 km. Kurile Islands. M= 5.5 SD 0.7 (CGS).
- 13 eZ P 01 23 02, USCGS: H= 01 10 06, 3.0 S, 100.6E, Southern
Sumatra, h= 33 km. M= 5.0 SD 1.0 (CGS).
- 13 eZ PKP 03 31 41, USCGS: H= 03 11 59.0, 21.2 S, 169.6 E, h=
33 km. Loyalty Islands region. M= 4.5 SD 1.2 (CGS).
- 13 eZ Pn 17 40 (21), eZ Sn 17 40 48, (D = 230 km.) USCGS: H=
17 39 46, 47.5 N, 14.3 E, Region of Molln. Aftershock of
the seism of January 29, at 00 12.
- 14 eZ PKP 05 26 02, USCGS: H= 05 06 16.3, 15.2 S, 173.6 W,
h= 11 km. Tonga Islands, Felt on Pago Pago and Apia. M=
5.6 5.8 (BRK), 5.9 SD 0.5 (CGS).
- 14 eZ P 08 18 05, USCGS: H= 08 05 58.6, 47.5 N, 154.4 E, h=55
km. Kurile Islands. M= 4.4-4.8 (BRK), 5.3 SD 0.7 (CGS).
- 14 eZ P 08 20 08, USCGS: H= 08 13 02.2, 47.5 N, 154.5 E, h=
53 km. Kurile Islands. M= 5.4 SD 0.5 (CGS).
- 15 eZ 14 59 54, eZ Sn 15 00 15, BCIS: H= 14 56 04 (DECM),
34.0 N, 32.5 E, Mediterranean Sea. South of Cyprus.
- 15 eZ Pn 15 46 33, eZ 15 46 55.
- 15 Z P 18 52 (00), USCGS: H= 18 41 57.7, 9.1 N, 40.4 W, h=33
km. Central Mid-Atlantic ridge. M= 4.8 SD 0.6 (CGS).
- 16 eZ P 09 36 24.

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- 16 eZ P or PKP 20 32 01, weak.
- 16 eZ Pn 21 53 39, eZ (Sn) 21 54 34, weak.
- 16 eZ Pn 22 58 02, eZ Pb 22 58 09, eiZ Pg 22 58 20.4, eZ Sn 22 58 54, iZ Sb 22 59 07.6, eiZ Sg 22 59 18.5, D = 620 km. BCIS: H= 22 56 57, 44.0 N, 20.0 E, Serbia, Yugoslavia. M= 3.7 (Beograd).
- 17 eZ Pref. 05 14 49, Z PKP 05 18 (00), USCGS: H= 05 00 11.8, 58.3 S, 26.6 W, 140 km. South Sandwich Islands. M= 6 3/4 (PAS), 6.3- 6.5 (BRK), 6 1/4- 6 1/2 (GOL), 6.1 SD 0.9 (CGS)
- 17 iZ Pn 15 44 04.2, iZ Pb 15 44 18.0, iZ Pg 15 44 27.5, iZ Sn 15 45 08.2, iZ Sb 15 45 24.8, iZ Sg 15 45 31.4, D = 590 km. BCIS: H= 15 42 58 (DECM), 41.7 N, 16.0 E, Monte Gargano. Italy.
- 17 iZ ePn 17 46 30, iZ Pb 17 46 42.4, eZ (Sn) 17 47 12, iZ Sg 17 47 27.0 (D = 390 km.) BCIS: H= 17 45 41 (DECM), 48.4 N, 17.5 E, Carpathian Mts. MLH= 4.0 (Pruhonice). Slightly damage in Bukova, Prievaly. Maxim. intensity 6°.
- 17 eZ Pn 19 18 51, eZ Sn 19 19 42, weak, D = 460 km.
- 17 eZ 19 39 03, eZ Sn 19 39 54, weak, D = 460 km.
- 17 eZ (Pn) 20 23 34, eZ 20 24 40, weak, BCIS: H= 20 22 02, (DECM), 46.4N, 7.4 E, Valais, Switzerland.
- 18 iZ Pg 09 56 56.7, iZ Sg 09 57 09.8, D = 110 km. BCIS: H= 45.8 N, 16.0 E, Yugoslavia. Felt 3°- 4° at Zagreb.
- 18 eZ PKP 20 23 20, USCGS: H= 20 04 56.7, 3.9 S, 151.6 E, h= 301 km. New Ireland region. M= 4.9 SD 0.8 (CGS).
- 18 eZ Pn 21 48 35, eZ Sn 21 49 29, D = 490 km. BCIS: H= 21 47 45 (DECM), Aftershock of the seism of June 17, at 17 45.
- 19 eZ Pn 00 23 50, eZ Sn 0024 45, D = 500 km. BCIS: H= 00 23 00 (DECM). Carpathian Mts. Aftershock of the seism of June 17, at 17 45.
- From June 19, 1967 at 12 21 to June 20, at 05 34 no registered.
- 20 eiZ Pn 07 32 05, eZ (Sn) 07 33 44, D = 950 km. Athens, 39.3 N, 20.6 E.
- 20 eZ P 07 51 04, USCGS: H= 07 38 44.9, 52.8 N, 161.1 W, h= 11 km. Fox Islands. Aleutian Islands. M= 4.5- 5.0 (BRK), 5.5 (PAL), 5.2 SD 1.1 (CGS).
- 20 eiZ Pn 16 39 24.0, iZ 16 40 01.1, eZ (Sn) 16 40 45, iZ 16 41 16.1, USCGS: H= 16 37 25, 38.5 N, 20.8 E, h= 33 km.

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- (cont.) Greece. M= 4.8 SD 0.9 (CGS).
- 21 eZ P 07 03 08, eZ 07 03 11, eZ 07 06 23, USCGS: H= 06 49 56.6, 2.2 S, 77.6 W, h= 49 km. Peru- Ecuador border region. Felt at Quito, Ecuador. M= 6 (PAS), M= 5.3 SD 0.6 (CGS).
- 21 eZ P 15 58 39, USCGS: H= 15 45 28.3, 127N, 123.1 E, h=56 km. Luzon, Philippine Islands. M= 5.6 SD 1.0 (CGS).
- 21 eZ PKP 16 05 47, USCGS: H= 15 46 02, 55.4 S, 146.9 E, h= 33 km. West of Macquarie Island. M= 5.0 SD 1.3 (CGS).
- 21 eZ P 18 15 53, USCGS: H= 18 04 49.5, 64.8 N, 147.4 W, h= 17 km. Central Alaska. Slight damage at Fairbanks. Felt over 90,000 SQ.MI. Area. Hypocenter based on special (CGS) Study 64° 45.4 N, 147° 22.3 W, Depth 16.5 km. M= 5 1/2(PAS) 4.5- 5.5 (BRK), 6.0 (GOL), 5.9 (CGS surface wave). M= 5.4 SD 0 (CGS).
- 21 eZ P 18 24 10, USCGS: H= 18 13 02.9, 64.8 N, 147.4 W, h= 17 km. Central Alaska. Felt as above. M= 6.0 (PAS), 5.2- 5.6 (BRK), 6 1/4- 6 1/2 (GOL), 6.1 (CGS surface wave), 5.6 SD 0.0 (CGS).
- 21 eZ P 18 35 49, USCGS: H= 18 24 45.7, 64.8 N, 147.4 W, h= 17 km. Central Alaska. Felt as above. M= 5 3/4 (PAS), 4.7- 5.1 ((BRK), 5 3/4 (GOL), 5.8 (CGS surface wave) M= 5.4 SD 0.0 (CGS).
- 21 eZ PKIKP 19 29 22, eZ PKHKP 19 29 31, iZ PKP2 19 29 48.1, D = 17200 km. USCGS: H= 19 10 31.1, 23.5 S, 180.0 E, h= 546 km. South of Fiji Islands. M= 5.0 SD 0.8 (CGS).
- 21 eZ P 20 23 49, eZ PP 20 27 51, D = 11300 km. USCGS: H= 20 09 28.4, 25.2 S, 70.1 W, h= 23 km. Near coast of northern Chile. Felt at Taltal. M= 5.7 SD 1.2 (CGS).
- 21 eZ PKP 22 24 40, eZ PKP2 22 24 48, USCGS: H= 22 05 54.0, 17.8 S, 178.7 W, h= 574 km. Fiji Islands region. M= 4.6 SD 0.7 (CGS).
- 22 Z PKP 00 41 (00), USCGS: H= 00 19 11.5, 12.1 S, 166.8 E, h= 226 km. Santa Cruz Islands. M= 4.4 SD 1.1 (CGS).
- 22 Z 07 01 (00), eZ (Sn) 07 01 51.
- 22 eZ Pn 11 00 36, iZ Pg 11 01 20.7, eZ Sn 11 02 20, eZ Sb 11 02 52, iZ Sg 11 03 17.0, D = 1000 km. BCIS: H= 10 58 36, 39.0 N, 20 3/4 E. Western coast of Greece.
- 22 eZ PKP 11 09 50, USCGS: H= 10 50 05.3, 15.8 S, 172.7 W, h= 33 km. Samoa Islands region. M= 4.5 SD 1.1 (CGS).
- 22 eZ P 12 21 31, USCGS: H= 12 18 53.0, 40.9 N, 33.4 E, h=13

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- (cont.) km. Turkey. M= 4.7 SD 0.9 (CGS).
- 22 iZ Pn 12 42 42.2, weak.
- 22 eZ P 14 40 12, eZ 14 40 30.
- 22 eZ Pn 23 16 17, eZ 23 17 43, eZ (Sn) 23 18 11.
- 23 eZ PKP 00 45 12, USCGS: H= 00 25 29.8, 15.0 S, 172.3 W, h= 33 km. Samoa Islands region. Felt at Apia. M= 5.1 SD 1.0 (CGS).
- 23 eZ PKP 01 01 54, USCGS: H= 00 42 13.4, 14.9 S, 178.4 W, h= 33 km. Samoa Islands. Felt at Apia. M= 5.1 SD 1.1 (CGS).
- 23 eiZ PKP 05 23 32, eZ 05 24 07, USCGS: H= 05 05 04.8, 5.8 S, 130.5 E, h= 85 km. Banda Sea. M= 5.9 SD 0.9 (CGS).
- 23 eZ P 10 10 25, USCGS: H= 10 06 54.1, 40.8 N, 33.6 E, h=14 km. Turkey. M= 4.8 SD 0.9 (CGS). BCIS: H= 10 06 58 (DECM) 40.7 N, 33.6 E, h= 55 km. ML= 5.2 (Istanbul-K).
- 23 eZ Pn 11 13 07, eZ (Sn) 11 14 (00), (D = 490 km.).
- 23 eZ PKIKP 14 57 18, iZ PKHKP 14 57 24.8, eZ PKP2 14 57 40, D = 17000 km. USCGS: H= 14 38 35.7, 21.3 S, 179.3 W, h= 605 km. Fiji Islands region. M= 5.1 SD 0.9 (CGS).
- 23 iZ -PKIKP 21 49 47.0, iZ PKHKP 21 49 58.9, iZ PKP2 21 49 07.6, USCGS: H= 21 30 11.5, 19.2 S, 167.7 E, h= 37 km. New Hebrides Islands region. Felt at Port Vila. M= 4.7-5.1 (BRK). 5.3 SD 1.2 (CGS).
- 24 eZ Pn 04 31 34, eZ Pg 04 32 02, eZ (Sn) 04 32 50, D = 720 km.
- 24 eZ 13 45 15, traces.
- 24 eZ PKIKP 13 47 18, iZ PKHKP 13 47 26.4, eZ pPKP 13 49 52, USCGS: H= 13 28 35.9, 21.4 S, 179.3 W, h= 592 km. Fiji Islands region. M= 4.7 SD 0.8 (CGS).
- 24 iZ Pg 19 32 49.4, iZ Sg 19 32 55.8, very weak. D = 60 km.
- 24 eZ P or PKP 21 14 29.
- 24 eZ P 21 17 05, USCGS: H= 21 03 36, 11.4 N, 125.7 E, h=53 km. Samar, Philippine Islands. M= 5.0 SD 0.7 (CGS).
- 25 eZ P 23 32 08, eZ PP 23 36 32, D = 11700 km. USCGS: H= 23 18 04.3, 12.4 N, 141.8 E, h= 42 km. South of Mariana Isl. M= 6.3 (BRK), 5.2 SD 1.0 (CGS).
- 26 eZ PKP 09 28 38, USCGS: H= 09 09 42.4, 18.0 S, 178.3 W,

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- (cont.) h= 477 km. Fiji Islands region. M= 4.3 SD 0.7(CGS)
- 26 eZ 09 32 07, eZ (Sn) 09 32 34.
- 26 iZ Pg 17 53 28.0, iZ Sg 17 53 31.6, D = 28 km.
- 27 Z PKP 20 02 (00), USCGS: H= 19 42 10, 15.3 S, 171.8 W, h= 33 km. Samoa Islands region. M= 4.2 SD 1.4 (CGS).
- 27 eZ 22 01 15, eZ Sg 22 02 15.
- 27 eZ P 23 19 16, USCGS: H= 23 06 47.0, 23.6 N, 121.5 E, h= Taiwan. M= 4.8 SD 0.6 (CGS).
- 28 eZ PKP 00 33 50, USCHS: H= 00 14 34.5, 9.5 S, 157.4 E, h= 16 km. Solomon Islands. M= 5.4 SD 0.9 (CGS).
- 28 eiZ +P 01 22 15, USCGS: H= 01 10 03.9, 46.0 N, 151.5 E, h= 33 km. Kurile Islands. M= 5.4 SD 0.5 (CGS).
- 28 eZ PKP 05 53 46, USCGS: H= 05 34 06.4, 14.4 S, 172.6 W, h= 40 km. Samoa Islands. Felt at Apia. M= 4.8 SD 1.2 (CGS).
- 28 eZ 13 21 13, iz (Sg) 13 21 17.4.
- 28 Z PKP 14 54 (00), USCGS: H= 14 34 04.5, 47.0 S, 165.8 E, h= 37 km. Off west coast of South Island, New Zealand, M= 5.6 SD 1.2 (CGS).
- 28 eZ (Sn) 16 13 41.
- 29 iZ +P 08 27 38.0, USCGS: H= 08 22 47.9, 41.6 N, 44.0 E, h= 25 km. Western Caucasus. M= 4.9 SD 0.8 (CGS).
- 29 eZ PKP 09 45 42, USCGS: H= 09 25 47, 15.8 S, 147.4 W, h=14 km. Samoa Islands region. Felt at Apia. M= 4.8 SD 1.2 (CGS).
- 29 eZ (Sn) 13 47 48.
- 29 eZ (Pn) 09 32 04, Z Sn 09 33 (00), (D= 510 km.)

Ljubljana, September 6, 1968

 Interpretation: M.Hržič
 Redaction: V. Ribarič

University of Ljubljana
Astronomical and Geophysical Observatory

LJU

Phon data indicated.

**PRELIMINARY
SEISMOLOGICAL BULLETIN**

VII—IX 1967

Ljubljana 1968

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

1967

PRELIMINARY SEISMOLOGICAL
BULLETIN

(July - September 1967)

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

1967

PRELIMINARY SEISMOLOGICAL BULLETIN
from July 1 to September 30, 1967

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;

Lithological foundation: sandstone (carbon);

Instruments:

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

Constants (December 14, 1966):

Component	To	v:l	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, $D_1=D_2=1$, $V_{max}=10.150x$,
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. Macroseismic data refer to Mercalli-Cancani-
Sieberg scale (MCS), macroseismic rays are given in kilometers.
Abbreviation DECM means: Determination was made by electronic
computer.

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1 eZ (P) 01 35 22, eZ 01 36 04.

1 eZ 02 04 41, eZ Sn 02 05 31.

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- 1 eiZ Pn 02 56 31, iZ 02 56 41.9, iZ Pg 02 56 47.6, eZ 02 57 33, iZ Sg 02 57 43.1. D = 460 km. BCIS: H= 02 55 30 (DECM), 43.9 N, 19.2 E, Yugoslavia, east of Sarajevo. M= 4.2 (Beograd).
- 1 eZ 04 25 37, eZ 04 25 40, eZ Sn 04 26 30, weak.
- 1 eZ +P 07 41 40, USCGS: H= 07 28 57.6, 0.8 S, 98.7 E, h=26 km. Southern Sumatra. M= 5.5 SD 0.8 (CGS).
- 1 eZ 13 23 45, eZ 13 24 34.
- 1 eZ -P 23 22 14, eZ S 23 32 35, D = 9300 km. USCGS: H= 23 10 07.2, 54.4 N, 158.0 W, h= 33 km. South of Alaska. Felt at Cold Bay and Sand Point. M= 6 3/4 (PAS), 6.3- 6.5 (BRK) 6 1/2- 6 3/4 (GOL). M= 6.2 SD 1.1 (CGS).
- 2 eiZ Pn 00 32 38, eZ Pb 00 32 45, iZ Pg 00 32 52.3, iZ Sn 00 33 27.2, eZ Sn 00 33 38, iZ Sg 00 33 47.2, D = 450 km. BCIS: H= 00 31 37 (DECM), M= 4.2 (Beograd), Yugoslavia, east of Sarajevo. Aftershock of the seism of July 1, at 02 55.
- 2 eiZ Pn 01 15 06, iZ 01 15 13.7, iZ Pg 01 15 20.6, iZ Sx 01 16 09.4, D = 450 km. BCIS: H= 01 14 06 (DECM), Yugoslavia, east of Sarajevo. Aftershock. USCGS: H= 01 14 03, 43.7 N, 19.2 E, h= 33 km. Yugoslavia. M= 4.2 SD 0.9 (CGS).
- 2 iZ Pn 01 18 14.1, iZ 01 18 24.4, iZ Sn 01 19 02.4, iZ 01 19 13.7, D = 450 km. BCIS: H= 01 17 13, 43.9N, 19.2 E, Yugoslavia, M= 3.9 (CGS). Aftershock.
- 2 eZ Pn 05 38 01, eZ 05 39 02, weak.
- 2 iZ Pn 07 11 07.0, eZ 07 11 17, eiZ Sn 07 11 54, D = 450km. BCIS: H= 07 10 06, 43.9 N, 19.2 E, Yugoslavia, M= 3.9 (Beograd). Aftershock.
- 2 eZ P 07 15 38, USCGS: H= 07 03 52.9, 8.7 N, 93.8 E, h= 33 km. Nicobar Islands region. M= 5.7 SD 1.3 (CGS).
- 2 eZ P 08 41 14, USCGS: H= 08 32 38.5, 33.2 N, 75.6 E, h=33 km. Eastern Kashmir. M= 4.8 SD 0.7 (CGS).
- 2 eZ 12 38 04, eZ Sn 12 39 01, weak.
- 2 eZ 14 29 27, eZ Sn 14 30 23.
- 2 iZ +P 20 46 48.0, USCGS: H= 20 34 36.2, 31.2 N, 130.1 E, h= 181 km. Kyushu, Japan. M= 4.9 SD 1.2 (CGS).
- 3 eiZ +Pn 02 54 46, iZ Pb 54 52.8, iZ Pg 02 55 03.3, iZNE Sn 02 55 35.1, iZ Sb 02 55 45.3, iZ Sg 02 55 34.2, D = 450 km. BCIS: H= 02 53 48, (DECM), 44.0 N, 19.0 E, Yugoslavia, NE of Sarajevo. Felt 3⁰ in Beograd and S. Mitrovica. M=4.8(Beo.)

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- 3 iZ Pg 17 11 50.2, iZ Sg 17 11 52.8, D = 20 km. Local.
- 3 eZ P 21 59 49, USCGS: H= 21 48 50.9, 7.5 S, 13.4 W, h=33 km. Ascension Island region.
- 3 eiZ Pn 22 53 09.9, iZ Pg 22 53 19.5, eiZ Sn 22 53 46.9, eZ Sg 22 54 01.4, BCIS: H= 22 52 27 (DECM), 44.0 N, 12.0 E, Toscan Apennin, Italy. D = 330 km.
- 4 eiZ Pg 02 39 06, iZ Sg 02 39 24.3, D = 160 km.
- 4 iZ P 23 54 05.5, USCGS: H= 23 42 13.7, 43.2 N, 142.5 E, h= 160 km. Hokkaido, Japan. M= 5.4- 5.8 (BRK), 5.6 (CGS).
- 5 iZ Pn 00 55 45, eZ (Sn) 00 57 40, D = 1100 km. BCIS: H= 00 53 15 (DECM), 36.7 N, 21.5 E, Ionian Sea. South of Peloponnisos. ML= 4.4 (Athens). USCGS: H= 00 53 14.2, 36.8 N, 21.3 E, h= 22 km. Southern Greece. M= 4.8 SD 1.1 (CGS).
- 5 Z Pn 16 52 (00), eZ Sn 16 54 09, D = 1100 km. BCIS: H=16 49 34 (DECM), Ionian Sea. South of Peloponnisos. ML= 4.1 (Athens). USCGS: H= 16 49 36, 36.9 N, 21.3 E, h= 41 km. Southern Greece. M= 4.5 SD 1.1 (CGS).
- 6 eZ Pn 08 24 22, eZ Sn 08 26 16, D = 1100 km. BCIS: H= 08 21 49, (DECM), 36.6 N, 21.4 E, Ionian Sea, south of Peloponnisos. ML= 4.1 (Athens).
- 6 eZ 13 42 54, iZ 13 43 10.9, iZ 13 44 07.7, traces.
- 6 eZ P 13 54 52, eZ 13 56 36, USCGS: H= 13 42 22.5, 52.6 N, 168.2 W, h= 14 km. Fox Islands, Aleutian Islands. M= 6 1/4 - 6 1/2, (PAS), 5.8- 6.0 (BRK), 5 3/4 (GOL), 6- 6 1/4 (PAL), 5.9 SD 1.0 (CGS).
- 6 eZ P 18 43 06, eZ 18 43 10, USCGS: H= 18 32 15.1, 18.9N, 6119 W, h= 57 km. Leeward Islands. M= 5.1 SD 1.0 (CGS).
- 6 eZ P 19 06 50, USCGS: H= 18 58 39.7, 13.4 N, 50.8 E, h= 44 km. Eastern Gulf of Aden. M= 4.9 SD 0.8 (CGS).
- 6 eZ P 19 29 46.5, USCGS: H= 19 19 48.4, 8.1 N, 38.5 W, h= 33 km. Central Mid-Atlantic Ridge. M= 4.9 SD 0.8 (CGS).
- 6 eZ +P 23 28 06, eZ 23 28 46, USCGS: H= 23 15 57.2, 32.5N, 130.9 E, h= 159 km. Kyushu, Japan. M= 4.8 SD 1.0 (CGS).
- 7 eZ P 01 18 10, USCGS: H= 01 09 59.0, 13.5 N, 50.8 E, h= 32 km. Eastern Gulf of Aden. M= 4.8 SD 0.8 (CGS).
- 7 iZ Pg 14 07 27.5, iZ 14 07 29.5, very weak, D = 20 km.
- 7 iZ Pg 14 17 09.3, iZ Sg 14 17 13.8, D = 27 km, weak.
- 8 iZ PKHKP 01 18 07.3, iZ! PKIKP 01 18 12.7, eZ PP 01 21 47,

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- (cont.) D = 15650. km. USCGS: H= 00 58 54.7, 15.4 S, 167.5 E, h= 137 km. New Hebrides Islands. M= 5.0- 5.4 (BRK), 5.2 SD 0.8 (CGS).
- 8 eZ PKP 06 42 28, USCGS: H= 06 22 52.8, 16.3 S, 166.8E, h= 9 km. New Hebrides Islands, M= 5.0- 5.4 (BRK), 5.0 SD 1.1 (CGS).
- 8 iZ Pg 09 16 45.3, iZ Sg 09 16 49.6, D = 30 km.
- 8 Z Pn 09 54 (00), iZ Sn 09 54 33.9, D = 300 km.
- 9 iZ Pg 19 21 54.7, iZ Sg 19 22 12.3, D = 145 km.
- 9 eZ Pn 23 43 (55), iZ Sn 23 44 29.8, (D = 310 km.).
- 10 eZ 01 56 39, eZ 01 57 20, traces.
- 10 eZ P or PKP 06 48 15, iZ 06 48 21.7.
- 11 eiZ Pn 12 42 00, iZ Pg 12 42 04.8, iZ Sn 12 42 29.6, iZ Sg 12 42 36.4, D= 260 km. BCIS: H = 12 41 19 (DECM), 44.5 N, 17.3 E, Yugoslavia, M= 4.3 (Beograd).
- 11 eZ Pn 14 47 31, Z 14 48 00, D = 260 km.
- 11 eiZ PKP 17 50 34, USCGS: H= 17 31 23, 19.4 S, 177.7 W, h= 381 km. Fiji Islands region. M= 4.2 SD 1.5 (CGS).
- 12 eZ P9 03 33, eZ Sn 09 03 45, traces.
- 12 eZ 17 33 19, eZ Sn 17 33 49, traces.
- 12 eZ P 21 13 31, USCGS: H= 21 00 20.9, 5.6 N, 82.6 W, h= 33km. South of Panama. M= 6 1/2 (PAS).
- 12 eZ PKP 21 34 33, eZ 21 41 21, USCGS: H= 21 14 53, 16.1 S, 178.1 E, h= 33 km. Fiji Islands. M= 5.3 SD 1.1 (CGS).
- 13 eZ P 02 13 58, BCIS: H= 02 10 24 (DECM), 35.4 N, 0.2 W, Western Algeria, 10 killed, 15 injured, 40 houses destroyed at M^oKhalif. Felt in Oran, Mascara, Tighennif, Mostaganem. Panic in Oran. MLH= 5.1 (Strasbourg). USCGS: H= 02 10 20.0, 35.5 N, 0.1 W, h= 13 km. Algeria 10 killed, 15 injured, 40 houses destroyed at M^oKhalif. M= 5.0 SD 1.0 (CGS).
- 13 eZ Pn 02 33 45, iZ Pg 02 33 50.5, iZ Sn 02 34 13.9, D = 260 km.
- 13 eZ Pn 07 06 30, eZ 07 06 45, eiZ 07 06 53, weak.
- 13 eZ PKP 07 55 44, USCGS: H= 07 36 07.2, 16.2 S, 178.1 E, h= 50 km. Fiji Islands, M= 5.4 SD 1.1 (CGS).
- 13 eZ PKIKP 10 23 55, iZ! PKHKP 10 23 58.3, iZ PKP2 10 24 00.9

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- (cont.) USCGS: H= 10 04 19.0, 20.4 S, 169.3 E, h= 46 km. New Hebrides Islands. M= 5.0 SD 1.0 (CGS).
- 13 iZ Pn 14 40 31.3, eZ 14 40 51, eZ 14 41 09, eZ Sn 14 41 55, D = 780 km. BCIS: H= 14 38 52 (DECM), 40.6 N, 19.5 E, Albania, M= 4.6 (Beograd), ML= 4.4 (Athens) USCGS: H= 14 38 54, 40.7 N, 19.5 E, h= 23 km. Albania. M= 4.4 SD 1.1 (CGS).
- 13 eiZ Pg 22 07 51, iZ Sg 22 08 05.3, D = 110 km.
- 15 eZ P 13 49 10 eZ PP 13 53 38, D = 11700 km. USCGS: H= 13 34 29.9, 0.8 S, 132.6 E, h= 33 km. West New Guinea region. M= 6(PAS), 5.8 - 6.2 (BRK),
- 16 eZ Pn 14 05 45, eZ (Sn) 14 07 17, D = 870 km. BCIS: H= 14 04 11 (DECM), 47.3 N, 5.4 E, h= 20 km. Departement of Côte d'Or (France). Felt on the region of departement of Côte d'Or: 6^oMCS in Auxonne, 3^o in Dijon; region of Jura; 5^o at Dôle, Montimary-le-Château, 3-4 at Arbois, 3^o at Dampierre, Louchons, Cuisery, M= 4.4 (Bensberg).
- 16 eiZ Pn 19 02 31, iZ Pg 19 02 37.3, Z Sn 1903 (00), iZ 19 03 08.8, D = 270 km. BCIS: H= 19 01 49 (DECM), 44.0 N, 17.0 E, Yugoslavia.
- 18 eZ 12 45 47, eZ (Sn) 12 46 21.
- 19 eZ P 09 09 32, eZ 09 11 25, eZ S 09 12 15, D = 1560 km. BCIS: H= 09 06 06 (DECM), 37.3 N, 30.0 E, Southwestern Anatolia. Slight damage in Denizli Province. ML= 4.9 (Istanbul-K, Strasbourg), 4.6(Athens).
- 19 eZ PKIKP 13 00 18.5, iZ PKHKP 13 00 25.8, eZ PKP2 13 00 38, USCGS: H= 12 41 28.8, 20.3 S, 178.2 W, h= 518 km. Fiji Islands region. M= 4.5 SD 0.8 (CGS).
- 19 eZ 13 22 53, eZ 13 23 18, traces.
- 19 eZ Pn 16 20 48, eZ 16 20 31, eZ 16 20 41, USCGS: H= 16 18 38, 38.3 N, 21.2 E, h= 33 km. Greece. M= 4.5 SD 0.9 (CGS).
- 20 eZ 13 28 12, eZ 13 28 38, eZ PP 13 29 37, USCGS: H= 13 11 35.0, 28.1 S, 66.9 W, h=157 km. Catamarca Province, Argentina. M= 5.3 SD 1.5 (CGS).
- 20 eiZ -P 14 38 32, USCGS: H= 14 26 14.1, 51.4 N, 178.3 E, h= 33 km. Rat Islands, Aleutian Islands. M= 4.6- 5 (BRK), 5.3 SD 0.9 (CGS).
- 20 eZ -P 15 50 30, eZ (PP) 15 53 21, USCGS: H= 15 36 20.1 7.7 N, 134.9 E, h= 8 km. West Caroline Islands. Slight damage on Koror Island. M= 6 1/2 (PAS), 6.2- 6.7 (BRK).

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- 20 i Z Pg 16 20 09.0, iZ Sg 16 20 15.3, D = 50 km. BCIS: H= 16 20 02 (DECM), 45 1/2 N, 14 1/4 E, Istria, Yugoslavia.
- 20 eiZ Pn 19 05 13, iZ Sn 19 06 19.6, USCGS: H= 19 03 28 (DECM), 40.7 N, 19.7 E, Albania.
- 20 eZ PKP 23 31 33, eZ PKP2 23 31 54, iZ 23 32 15.6, USCGS: H= 23 12 54.4, 26.5 S, 178.5 E, h= 596 km. South of Fiji Islands M= 5.2 SD 1.0 (CGS).
- 21 eZ P 07 15 11, eZ 07 15 20, USCGS: H= 07 02 07.6, 4.8 S, 101.4 E, h= 33 km. Southern Sumatra. M= 5.0 SD 0.9 (CGS).
- 21 eZ PKP 13 05 50, USCGS: H= 12 45 57, 21.3 S, 176.2 W, h= 199 km. Fiji Islands region. M= 4.5 SD 0.7 (CGS).
- 21 eZ Pg 13 32 59, iZ Sg 13 33 13.6, D = 120 km.
- 21 eZ P or PKP 16 10 15.
- 21 eZ PKP 19 47 43, eZ 19 47 54, USCGS: H= 19 28 08.0, 19.2 S, 168.6 E, h= 53 km. New Hebrides Islands. M= 4.8 SD 0.8 (CGS).
- 22 Z PKP 04 18 (00), USCGS: H= 03 58 02.4, 33.5 S, 179.0 W, h= 39 km. South of Kermadec Islands. M= 5.8- 6.2 (BRK), 5.0 SD 1.2 (CGS).
- 22 eZ 06 48 24, eZ 06 49 16, traces.
- 22 eZNE 17 00 01, iZNE 17 02 25.0, iZ!! 17 05 05, D = 1380 km. BCIS: H= 16 56 52 (DECM) 40.7 N, 30.8 E, northwestern Anatolia. Destructive; Considerable damage at Sakarya (Adapazari, Henduk, Akyari and environment, 75 killed, 199 injured, 1016 houses destroyed, 4000houses partially damaged. Largely felt in western Anatolia. MPV= 7.7 (Strasbourg), M= 7.5 (Uppsala Athens), ML= 7.3 (Athens), ML= 7.2 (Collm), M= 7.1 (Pruhonice), 7.0 (Praha), MLH= 7.0 (Moxa), MPV= 6.9 (Bensberg), ML= 6.8 (Skopje), M= 6 3/4 (Roma), MPV= 6.1 (Ifrane), MLV= 5.9 (Rabat), MPV= 5.5 (Averroes), USCGS: H= 16 56 53.3, 40.7 N, 30.8 E, h= 4 km. Turkey. 174 killed, 183 injured and major property damage in Sakarya, Henduk and Akyazi Provinces. M= 7 1/4 (PAS), 7.1 - 7.3 (BRK).
- 22 iZ Pn 17 51 11.2, BCIS: H= 17 48 05 (DECM), 40.8 N, 30.5 E, Northwestern Anatolia.
- 22 eZ Pn 18 11 57, BCIS: H= 18 09 52 (DECM), 40.9N, 30.4 E, Felt at Istanbul. Northwestern Anatolia.
- 22 Z 23 45 (00), BCIS: H= 23 41 56 (DECM), 40.8 N, 30.8 E, Northwestern Anatolia.
- 23 eZ PKP 03 28 10, eiZ03 28 23, USCGS: H= 03 08 43.7, 15.7 S, 167.1 E, h= 23 km. New Hebrides Islands. Felt at Luganville. M= 4.9 SD 0.9 (CGS).



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- 23 eZ P 04 06 42, eZ(S) 04 09 37, D = 1400 km. BCIS : H= 04 03 36 (DECM), 40.7 N, 30.8 E, Northwestern Anatolia. USCGS: H= 04 03 39, 40.6 N, 30.6 E, h= 21 km. Turkey. M= 4.5 SD 0.8 (CGS).
- 23 eZ P 07 45 28, eZ (S) 07 48 30, BCIS: H= 07 42 22, (DECM), 40.7 N, 30.8 E, Northwestern Anatolia. USCGS: H= 07 42 22.2 40.8 N, 30.8 E, h= 19 km. Turkey. M= 4.1 SD 1.0 (CGS).
- 23 Z PKP 14 08 (00), USCGS: H= 13 48 06, 56.2 S, 158.3 E, h= 33 km. Macquarie Islands region. M= 5.1 SD 1.4 (CGS).
- 23 eZ PKIKP 19 03 56, iZ PKHKP 19 04 02.2, eZ PKP2 19 04 18, USCGS: H= 18 44 13.6, 20.0 S, 175.5 W, h= 77 km. Tonga Islands. M= 4.9 SD 0.7 (CGS).
- 24 eZPn 04 11 55, eZ 04 13 09, traces.
- 24 eZ Pn 12 23 14, eZ 12 23 23, iZ (Sn) 12 24 13.4, (D= 560 km.).
- 25 eZ 08 39 30, eZ Sn 08 41 31, weak. USCGS: H= 08 37 26, 41.9 N, 24.6 E, h= 33 km. Greece-Bulgaria border region. M= 4.2 SD 1.4 (CGS).
- 25 eiZ Pg 11 22 55.0, iZ Sg 11 23 03.6, D = 70 km. BCIS: H= 11 22 47 (DECM), 45.6 N, 14.5 E, Yugoslavia.
- 25 iZ Pg 11 36 52.3, iZ Sg 11 37 00.1, D= 70 km, very weak.
- 26 eZ Pn 04 17 48, iZ 04 18 39.5, eZ 04 19 03, weak.
- 26 eZ +PKP 08 34 42, USCGS: H= 08 14 56.3, 22.0 S, 170.1 E, h= 30 km. Loyalty Islands region. M= 5.0 SD 1.3 (CGS).
- 26 iZ Pg 13 56 32.9, iZ Sg 13 56 35.7, D = 20 km.
- 26 eZ -P 18 57 44, eZ S 19 00 30, D = 1700 km. BCIS: H= 18 52 55 (DECM), 39.5 N, 40.3 E, Eastern Anatolia. Destructive, 63 killed, 16 injured, 100 buildings destroyed at Pülümür (39.5 N, 39.9 E), 7 killed, 8 injured at Tercan (39.8 N, 40.4 E). Largely felt at Erzincan, Erzerum, Varto, Mus, Van, Tunceli, Bingöl, Samsun, Trabzon (Istanbul-K). MLH= 6.3- 6.4 (Strasbourg), M= 6 1/4 (Roma), 6.1 (Uppsala), MLH= 6.1 (Pruhonice, Moxa, Collm), MPV= 6.1 (Bensberg), MLV= 6.1 (Moxa). USCGS: H= 18 53 01.3, 39.5 N, 40.4 E, h= 33 km. Turkey. 92 killed, 120 injured, and property damage in eastern Turkey. M= 5 3/4- 6 (PAL), 5.6 SD 1.2 (CGS).
- 26 eZ PKP 19 12 14, USCGS: H= 18 52 21.2, 17.4 S, 174.0 W, h= 15 km. Tonga Islands. M= 5.0 SD 0.8 (CGS).
- 27 eZ P 05 23 35, BCIS: H= 05 17 48 (DECM), 63.6 N, 21 1/2 W, near southwestern coast of Iceland. MLH= 4.8 (Strasbourg), 4.6 (Pruhonice). USCGS: H= 05 17 54.0, 64.0 N, 20.7 W, h=

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- (cont.) 33 km. Iceland. M= 5.0 SD 1.3 (CGS).
- 28 eZ P 05 36 13, USCGS: H= 05 16 28, 22.1 S, 169.9 E, h= 33 km. Loyalty Islands region. M= 4.1 SD 0.7 (CGS).
- 28 eZ PKP 14 44 35, iZ 14 44 43.9, eZ pPKP 14 47 56, USCGS:H= 14 25 50, 20.7 S, 178.5 W, h= 555km. Fiji Islands region. M= 4.7 SD 0.8 (CGS).
- 28 eZ P 15 40 40, BCIS: H= 15 34 58 (DECM), 63.9 N, 21 1/2 W, Southwest of Iceland. MPV= 4.8, MLH= 4.2 MLV= 4.6 (Moxa).
- 28 eiz P 17 40 04, USCGS: H= 17 27 35.7, 2.1 N, 98.0 E, h= 32 km. Northern Sumatra. M= 5.1 SD 0.8 (CGS).
- 28 eZ PKP 18 51 41, eZ pPKP 18 53 16, USCGS: H= 18 32 39.9, 15.2 S, 178.5 W, h= 375 km. Fiji Islands region, M= 4.3 SD 0.8 (CGS).
- 29 iZ Pg 00 16 04.1, iZ Sg 00 16 18.5, (D = 110 km).
- 29 iZ Pg 09 07 53.0, iZ Sg 09 07 55.0, D = 20 km, very weak.
- 29 eZ P 10 36 35, iZ 10 37 17.7, USCGS:H= 10 24 24.6, 6.8 N, 73.0 W, h= 161 km. Northern Colombia, 10 killed, moderate property damage. Felt in Colombia and western Venezuela. M= 6 1/2- 6 3/4 (PAS), 6.1- 6.3 (BRK), 6 1/2(PAL), 6.0 SD 1.0 (CGS).
- 29 eZ P or PKP 11 02 56, eZ 11 03 40.
- 30 eiz + P 00 11 52.3, iZ 00 12 13.2, USCGS: H= 23 59 58.7, 10.6 N, 67.3 W, h= 10 km. Near coast of Venezuela, 236 deaths, 2000 injured and major property damage in Caracas area. M= 6 1/2 (PAS), 6.3- 6.5 (BRK), 5 3/4- 6 (PAL).
- 30 eiz +P 01 34 06.5, eZ 01 36 27, eZ 01 37 46, BCIS: H= 01 30 59 (BCIS), 40.7 N, 30.8 E, Northern Anatolia. M=53/4 (Strasbourg), 5 3/4 (Uppsala), 5 1/2- 5 3/4 (Roma), MLH= 5.7 (Collm), MLV= 5.6 (Moxa), MLH= 5.5 (Moxa), MPV= 5.3 (Bensberg). Damage in Akyazi and Sakarya. USCGS: H= 01 31 01.7, 40.7 N, 30.4 E, h= 16 km. Turkey, property damage in Akyazi- Sakarya area. M= 5.6 SD 0.7 (CGS).
- 30 eZ PKP 11 09 18, eiz 11 09 23, USCGS: H= 10 49 32.8, 56.2 S, 146.9 E, h= 33 km. West of Macquarie Island. M= 5.1 SD 0.9 (CGS).
- 30 eZ 11 41 11, eZ 11 41 54, eZ 11 42 17, traces.
- 30 Z P 11 47 (00), eZ 11 47 47, eZ 11 48 17.
- 30 eZ PKP 13 54 13, USCGS: H= 13 35 14.4, 5.3 S, 153.6 E, h= 50 km. New Ireland region. Felt at Rabaul. M= 5 3/4- 6 (PAL) 5.2 SD 0.9 (CGS).

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- 30 eZ PKIKP 17 43 25, iZ PKHKP 17 43 31.4, eZ PKP2 17 43 38, D = 16400 km. USCGS: H= 17 24 43.1, 17.8 S, 178.8 W, h= 564 km. Fiji Islands region. M= 5.1 SD 0.7 (CGS).
- 31 eZ P 07 14 47, 07 16 55, eZ 07 17 56, USCGS:H= 07 12 05, 40.6 N, 27.6 E, h= 4.2 SD 0.8 (CGS).

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- 1 eZ P 01 27 23, eZ PP 01 31 08, D = 10200 km. USCGS: H= 01 13 42.6, 13.0 S, 76.8 W, h= 66 km. Near coast of Peru. M= 5.5 SD 1.0 (CGS).
- 1 eZ PKP 09 25 38, USCGS: H= 09 05 49.3, 60.0 S, 159.2 E, h= 33 km. South of New Zealand. M= 5.5 SD 1.2 (CGS).
- 2 eZ -P 00 56 37, USCGS: H= 00 44 41.4, 44.6 N, 146.4 E, h= 149 km. Kurile Islands. M= 5.0 SD 0.8 (CGS).
- 2 eZ +P 11 12 23, BCIS: H= 11 06 38 (DECM), 70.8 N, 7.3 W, Region of Island Jan Mayen. MSH= 5.8 (Collm), 5.7 (Prah), MPV= 5.6 (Moxa), MLH= 5.5 (Collm, Pruhonice, Strasbourg), MLH= 5.3 (Moxa, Praha), MLV= 5.3 (Moxa). USCGS: H= 11 06 38.7, 71.2 N, 8.0 W, h= 33 km. Jan Mayen Island region. M= 6 (PAS), 5.1- 5.4 (BRK), 5.0 SD 0.9 (CGS).
- 2 eZ +P 14 12 03, eZ 14 15 25, BCIS: H= 14 06 18 (DECM), 70.8 N, 7.3 W, Region of Island Jan Mayen. MPH= 6.3 (Prah), MPV= 6.2 (Prah), 5.8 (Moxa), MSH= 5.5 (Collm), MLH= 5.3 (Prah), MLH= 5.4 (Strasbourg), 5.2 (Collm), 5.1 (Moxa), MLV= 5.0 (Moxa). USCGS: H= 14 06 17.8, 71.2 N, 8.5 W, h= 33 km. Jan Mayen Island region.
- 3 Z PKP 00 28 (00), USCGS: H= 00 08 13, 20.9 S, 174.3 W, h= 43 km. Tonga Islands. M= 4.4 SD 0.8 (CGS).
- 4 eZP 06 10 39, EZ 06 11 04, eZ PP 06 13 23, D = 7400 km. USCGS: H= 06 01 09.9, 7.4 N, 36.3 W, h= 33 km. Central Mid-Atlantic ridge. M= 5.0 SD 1.0 (CGS).
- 4 eZ 06 55 03, eZ PP 06 56 51, weak.
- 4 eZ P 07 05 50, BCIS: H= 06 58 00, 50.0 N, 78.0 E, Kazakhstan. Region of Semipalatinsk. Probably artificial. MPH= MPV= 5.6 (Moxa), M= 5.5 (UPPsala).
- 4 iZ Pn 14 55 33.8, iZ 14 55 43.5, iZ (Sn) 14 56 20.3, iZSg 14 56 33.7. D = 420 km. BCIS: H= 14 54 32 (DECM). 42.8 N, 17.7 E, Yugoslav coast. M= 4.5 (Beograd), 4.1 (Skopje), MLH= 4.0 (Pruhonice). USCGS: H= 14 54 33.3, 42.9 N, 17.7 E, h= 33 km. Adriatic Sea. Felt at Bileča, Yugoslavia. M= 4.4 SD 0.9 (CGS).
- 4 eZ PKP 22 54 33, USCGS: H= 22 34 47.7, 17.7 S, 173.2 W,

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- (cont.) h= 33 km. Tonga Islands. M= 4.8 SD 0.9 (CGS).
- 5 eZ 08 28 04, iZ Sg 08 28 09.4, very weak.
- 5 eZ Pn 13 08 32, iZ 13 08 47.8, very weak.
- 5 eZ 20 22 54, iZ 20 22 43.3, weak.
- 9 eZ Sg 06 31 43.8, traces.
- 9 Z Pg 07 25 (00), iZ Sg 07 25 06.3, local.
- 9 eiZ -PKP 08 38 31.6, iZ (PP) 08 39 36.2, USCGS: H= 08 20 03.7, 6.4 S, 130.4 E, h= 89 km. Banda Sea. M= 5.7 SD 1.0 (CGS).
- 9 eZ 10 23 46, iZ Sn 10 23 50.9.
- 9 eZ P 13 37 10, USCGS: H= 13 25 06.2, 39.9 N, 104.7 W, h= 5 km. Colorado, slight damage in Adams County. Felt at Fraser, Pueblo and Cheyenne, Wyoming. M= 4.0- 4.4 (BRK). 5.3 SD 09 (CGS).
- 10 eiZ +P 11 33 33.8, USCGS: H= 11 21 22.3, 45.4 N, 150.3 W, h= 37 km. Kurile Islands. M= 5.5- 5.9 (BRK), 5.7 SD 0.7 (CGS).
- 10 eZ 13 15 43, eZ 13 16 29, traces.
- 10 eZ 20 06 08, iZ (Sn) 20 06 46.8, weak.
- 12 eiZ +P 09 59 14.0, iZ! 09 59 51.0, USCGS: H= 09 39 44.3, 24.7 S, 177.5 W, h= 134 km. South of Fiji Islands. Felt at Raoul. M= 6 1/2 (PAS), 6.1- 6.3 (BRK), 5.8 SD 0.9 (CGS).
- 12 eZ PKP 12 50 23, eZ 12 54 (00), USCGS: H= 12 30 56.1, 14.9 S, 166.7 E, h= 23 km. New Hebrides Islands. Felt at Luganville. M= 5.2 SD 0.9 (CGS),
- 12 eZ 17 03 01, eZ 17 03 26, traces. USCGS: H= 16 59 21, 41.0 N, 34.3 E, h= 33 km. Turkey. M= 4.4 SD 0.7 (CGS).
- 12 eiZ PKP or P 17 22 24.4.
- 12 eZ P 23 02 24, weak. USCGS: H= 22 54 38.6, 37.0 N, 71.4 E, h= 124 km. Afghanistan-USSR border region. M= 5.1 SD 09 (CGS).
- 13 eZ PKP 05 34 51, traces. USCGS: H= 05 14 57.9, 18.3 S, 174.0 W, h= 25 km. Tonga Islands. M= 4.5 SD 0.7 (CGS).
- 13 eiZ! P 20 18 38.1, iZ! 20 20 (00), iZ! 20 21 55, eZ(S) 20 28 14, USCGS: H= 20 06 50.6, 35.3 N, 135.3 E, h= 357 km. Southern Honshu, Japan. M= 6.0 SD 0.8 (CGS).
- 13 eZ P 22 10 33, iZ 22 11 22.9, BCIS: H= 22 07 50 (DECM),

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- (cont.) 43.1 N, 0.75 W, Basses-Pyrenees (France), M= 6.1 Kew, 5 3/4 (Strasbourg), 5.6 (Moxa), MLH= 5.5 (Pruhonic). Epicentre on the northern Pyrenean line. Felt 8°-9° at Arette, 8° at Montory, 7°-8° at Lanne, 7° at Arants. Largely felt at southwestern France till Bordeaux and in Spain. 1 killed, 14 injured, important damage (20 million francs) in epicentral zone. USCGS: H= 22 07 47.5, 43.2 N, 0.5 W, h= 15 km. Pyrenees. 1 killed, 60 injured, and 80 houses destroyed at Arette. France. Felt in northern Spain. M=5.3 SD 0.9 (CGS).
- 14 eiZ Pn 10 17 07, iZ 10 17 12.1, iZ Pg 10 17 23.9, iZ Sn 10 17 53.9, iZ! Sg 10 18 12.4, D = 430 km. BCIS: H= 10 16 21 (DECM), 46.9 N, 10.3 E, Swiss- Italian frontier (Engandine). MLOC= 4.4 (Bensberg), MLH= 3.8 (Moxa, Pruhonic). USCGS: H= 10 16 18, 46.9 N, 10.4 E, h= 20 km. Northern Italy. M= 4.3 SD 1.1 (CGS).
- 15 iZ Pn 04 38 16.7, iZ 04 38 25.9, iZ Sn 04 39 59.5, D = 420 km. USCGS: H= 04 35 53, 36.5 N, 19.4 E, h= 33 km. Mediterranean Sea. M= 4.5 SD 1.2 (CGS).
- 15 eZ Pn 06 51 (35), eZ 06 52 08, eZ 06 52 46.
- 15 eiZ Pn 07 08 21.1, iZ 07 09 06.8, eZ 07 09 45, BCIS: H= 07 06 28 (DECM), 38.6 N, 15.2 E, Tyrrhenian Sea. USCGS: H= 07 06 36, 38.9 N, 15.0 E, h= 33 km. Sicily. M= 4.5 SD 1.0 (CGS).
- 15 eZ 0 09 31 16, USCGS: H= 09 21 02.3, 31.1 N, 93.7 E, h=33 km. Tibet. M= 5.7 SD 0.9 (CGS).
- 15 eiZ Pn 11 28 48.6, eZ 11 29 37, eZ Sn 11 30 41, D = 1100 km.
- 15 eZ P 15 47 39, eZ 15 47 42, USCGS: H= 15 36 06.6, 44.8 N, 132.4 E, h= 33 km. Eastern Russia- NE China border region. Felt at Spassk, Dal'niy and Vladivostok, USSR. M= 5,3 SD 0.8 (CGS).
- 16 eiZ -Pg 00 03 48.1, iZ Sg 00 03 58.2, D = 80 km.
- 16 iZ -Pg 07 27 09.9, iZ Sg 07 27 20.2, D= 80 km. Felt 3°MCS Ribno near Radovljica (46°21'N, 14°08'E), Slovenia, Yugoslavia.
- 16 iZ -P 19 31 34.9, eZ 19 31 53, USCGS: H= 19 18 57.6, 0.9 N, 98.9 E, h= 26 km. Northern Sumatra. M= 5.6 SD 1.0 (CGS).
- 17 eZ 11 42 35, eZ Sn 11 43 04, traces.
- 17 eZ P 12 58 47, USCGS: H= 12 49 08.9, 0.8 S, 21.1 W, h= 40 km. Central Mid-Atlantic ridge. M= 4.5 SD 0.8 (CGS).
- 18 eZ 00 11 43, weak.

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- 18 eiZ +P 03 48 06.0, USCGS: H= 03 35 40.5, 27.8 N, 127.7 E, h= 94 km. Ryukyu Islands. M= 5.4 SD 1.0 (CGS).
- 18 eZ Pn 12 03 35, iZ 12 03 17.1, BCIS: H= 12 02 45 (DECM), 46.8 N, 10.5 E, Austria-Italia-Switzerland border region.
- 19 eZ +P 15 41 34, eZ PP 15 45 33, D = 10900 km. USCGS: H= 15 28 08.5, 10.4 N, 126.0 E, h= 58 km. Philippine Islands region. Felt in southern Philippine Islands. M= 5.5- 6 (BRK) 5.6 SD 0.9 (CGS) .
- 19 eZ +PKP 16 01 11, eZ (PP) 16 04 41, (D = 16400 km). USCGS: H= 15 41 53.3, 12.4 S, 166.6 E, h= 86 km. Santa Cruz Islands. M= 5.4 SD 1.1 (CGS).
- 20 eZ P 02 10 18, eZ 02 10 21, USCGS: H= 02 02 05.2, 45.3 N, 80.1 E, h= 33 km. Kazakh-Sinkiang border region. M= 5.1 SD 1.0 (CGS).
- 20 eiZ +P 10 06 57.0, iZ Sn 10 07 39.3, iZ Sg 10 07 58.1, D = 390 km.
- 20 iZ +Pn 14 54 53.3, iZ (Sn) 14 55 35.0, D = 390 km.
- 21 iZ +P 07 45 15.7, USCGS: H= 07 33 00.6, 3.6 N, 95.8 E, h= 33 km. Off western coast of northern Sumatra. M= 6 1/2- 6 3/4 (PAS), 6.3-6.7 (BRK), 5.9 SD 0.8 (CGS).
- 21 iZ P 13 44 51.1, BCIS: H= 13 41 49 (DECM), 57.0 N, 5.0 E, North Sea, Southwestern Norway (Bergen). Felt Largely on Southwestern Norway. USCGS: H= 13 41 48.8, 57.0 N, 4.9 E, h= 33km. North Sea. Felt in Southwestern Norway. M= 4.2 SD 1.2 (CGS).
- 22 eZ 13 20 25, eZ PKP 13 21 16, USCGS: H= 13 02 06.8, 60.8 S, 24.6 W, h= 33 km. South Sandwich Islands region. M= 6 3/4 (PAS). 5.7-6.1 (BRK), 6.1 SD 1.6 (CGS).
- 24 eZ 07 54 26, eZ Sn 07 54 36, weak.
- 24 eZ PKP 10 52 18, USCGS: H= 10 32 52.6, 14.9 S, 166.9 E, h= 23 km. New Hebrides Islands. Felt at Luganville. M= 5.3 SD 0.8 (CGS).
- 26 eZ P 00 50 46, eZ PS 01 04 14, D = 11500 km. USCGS: H= 00 36 42.1, 12.2 N, 140.7 E, h= 33 km. West Caroline Islands. M= 6 1/2- 6 3/4 (PAS), 6.0-6.4 (BRK), 6.1 SD 0.7 (CGS).
- 26 eZ PKP 18 39 42, iZ! +PKP2 18 39 56.2, D= 16650 km. USCGS: H= 18 19 58.2, 15.4 S, 172.7 W, h= 37 km. Samoa Islands region. Felt at Apia. M= 5.0 SD 0.9 (CGS).
- 27 eZ P 13 21 29, eZpP 13 22 14, eZ PP 13 25 05, D = 10000 km. USCGS: H= 13 08 55.9, 12.3 N, 86.2 W, h= 183 km. Nicaragua. Felt in Managua area. M= 5.2 SD 1.0 (CGS).

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- 27 Z Pn 21 27 (00), eZ (Sn) 21 27 46, (D= 420 km.), BCIS: H= 21 25 26 (DECM), 46.5, 7.4 E, Valais.
- 28 eZ 13 23 48, eZ 13 24 20, weak.
- 28 eZ P 17 39 40, BCIS: H= 17 36 40, (DECM), 36.7 N, 26.8 E, h= 170 km. Cyclades region. West of Rhodes. ML= 4.1 (Athens) USCGS: H= 17 36 41.0, 36.7 N, 26.8 E, h= 174 km. Dodecanese Islands. M= 4.3 SD 0.8 (CGS).
- 28 eZ P 21 14 48, USCGS: H= 21 05 51.7, 36.5 N, 80.1 E, h=33 km. Southern Sinkiang Prov., China. M= 4.7 SD 0.8 (CGS).
- 28 eZ P 21 20 25, BCIS: H= 21 15 29 (DECM), 31.3 N, 6.3 W, South-Atlasian flexure. Felt in Zagora (30.3 N, 5.8 W), Morocco. MLH= 4.4 (Pruhonic). USCGS: H= 21 15 35.7, 31.5 N, 6.1 W, h= 33 km. Morocco. M= 4.6 SD 1.2 (CGS).
- 29 eZ P or PKP 07 46 09, weak.
- 29 eZ (P) 22 01 36, eZ 22 03 30.
- 30 eZNE P 04 32 46, USCGS: H= 04 22 01.5, 31.7 N, 100.3 E, h= 33 km. Szechwan Province, China. M= 6.1 (CGS).
- 30 iZ +P 07 20 01.2, iZ 07 20 06.6, iZ Sn 07 20 17.8, D = 140 km.
- 30 eZ P 11 19 31, USCGS: H= 11 08 49.6, 31.6 N, 100.3 E, h= 33 km. Szechwan Province, China. M= 5.1 SD 1.0 (CGS).
- 30 eZ P 12 00 06, eZ 12 01 55, weak.
- 30 eZ PKP 12 15 32, eZ pFKP 12 16 16, USCGS: H= 11 55 50.5, 30.4 S, 178.4 W, h= 161 km. Kermadec Islands region. M= 4.8 SD 0.9 (CGS).
- 30 eZ +P 13 45 40, USCGS: H= 13 33 26.4, 45.4 N, 151.5 E, h= 33 km. Kurile Islands. M= 5.5 SD 0.9 (CGS).
- 30 eZ P 18 26 34, USCGS: H= 18 21 47, 31.5 N, 6.0 W, h= 43 km. Morocco. M= 4.1 SD 1.4 (CGS).
- 31 eZ Sg 09 54 01.2, weak.
- 31 eZ PKP 11 06 42, USCGS: H= 10 47 30.4, 18.7 S, 169.1 E, h= 234 km. New Hebrides Islands. M= 4.9 SD 0.7 (CGS).
- 31 eZ P or PKP 13 21 26.
- 31 eZ P 13 51 33, USCGS: H= 13 38 50.7, 18.7 N, 121.3 E, h= 99 km. Luzon. Philippine Islands. Felt at Aparri. M= 4.8 SD 1.1 (CGS).
- 31 eZ PKIKP 19 12 40, iZ PKHKP 19 12 46.0, iZ PKP2 19 12 58.0,

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(cont.) eZ pPKP 19 13 06, USCGS: H= 18 53 25.2, 17.5 S, 175.2 W, h= 277 km. Tonga Islands. M= 5.4 SD 0.4 (CGS).

31 eZ 20 50 28, iZ Sn 20 51 07.8, traces.

31 eZ Pn 23 08 11, iZ 23 08 46.9.

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1 eiZ -PKP 03 49 45.4, USCGS: H= 03 31 10.5, 5.6 S, 147.2 E, h= 182 km. East New Guinea region. Felt in eastern New Guinea. M= 5.6 SD 0.8 (CGS).

1 Z P 22 55 (00), USCGS: H= 22 42 01.8, 44.9 N, 147.0 E, h= 134 km. Kurile Islands. M= 5.4 SD 0.9 (CGS).

2 eZ P or PKP 17 59 02,

2 iZ Pg 21 45 35.8, iZ Sg 21 45 42.5, very weak, D = 60 km.

3 eZ PKP 01 42 04, USCGS: H= 01 23 19.6, 7.8 S, 147.1 E, h= 139 km. East New Guinea region. Felt in eastern New Guinea. M= 5.4 SD 1.0 (CGS).

3 eZ P 04 58 09, USCGS: H= 04 45 57.0, 31.0 N, 129.8 E, h= 165 km. Kyushu, Japan. M= 4.6 SD 0.7 (CGS).

3 eZ PKP 06 41 48, USCGS: H= 06 22 45.8, 19.0 S, 178.0 W, h= 547 km. Fiji Islands region. M= 4.1 SD 0.6 (CGS).

3 eZ Pn 07 48 39, eZ Sn 07 50 37, D = 1150 km. USCGS: H= 07 46 19, 37.5 N, 21.8 E, h= 48 km. Southern Greece. M= 4.4 SD 1.1 (CGS).

3 eZ Pn 09 22 10, eZ Sn 09 24 03, D = 1080 km. USCGS: H= 09 19 48, 38.5 N, 22.1 E, h= 35 km. Greece. M= 4.3 SD 0.8 (CGS).

3 eZ 14 43 28, eZ 14 43 56, traces.

3 eZ P 21 21 16, eZ PP 21 25 27, D = 11100 km. USCGS: H= 21 07 30.8, 10.6 S, 79.8 W, h= 38 km. Off coast of Peru. Felt at Lima. M= 6 3/4-7 (PAS), 6.5 SD 0.8 (CGS).

3 eZ Pn 22 41 07, eZ 22 41 43, eZ Sn 22 42 58, D= 1040 km. weak. Athens: H= 22 38 33, 38.6 N, 21.8 E, ML= 3.5.

4 eZ P 03 28 44, weak. USCGS: H= 03 18 52.2, 1.3 S, 23.9 W, h= 33 km. Central Mid-Atlantic ridge. M= 4.7 SD 1.2 (CGS).

4 eZ PKP 04 11 32, eZ PKP2 04 12 19, eZ pPKP1 04 12 19, eZ pPKP2 04 13 18. USCGS: H= 03 51 58.9, 31.4 S, 179.4 W, h= 231 km. Kermadec Islands. M= 6.0-6.2 (BRK), 5.5 SD 1.0 (CGS).

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5 iZNE -Pg 11 37 11.9, iZ Sg 11 37 19.8, D = 60 km. BCIS : H= 11 37 04, (DECM), Felt 5° at Ilirska Bistrica, 4° at Trieste, 3° at Ljubljana. 45.7 N, 14.2 E, Yugoslavia.

5 iZ -Pg 15 18 24.0, iZ Sg 15 18 31.2, D = 60 km. BCIS: H= 15 18 16, (DECM), Felt at Trieste 3°, 45.7 N, 14.2 E, Yugoslavia,

5 iZNE Pg 15 21 09.0, iZ Sg 15 21 17.1, D = 60 km. BCIS; H= 15 21 01 (DECM). 45.7 N, 14.2 E, Felt 4° at Trieste, Yugoslavia.

5 iZ Pg 17 55 19.5, iZ Sg 17 55 26.2, D = 60 km. Ilirska Bistrica, aftershock.

6 eZ P 01 54 17, USCGS: H= 01 43 31.8, 24.1 N, 91.7 E, h= 18 km. India- eastern Pakistan border region. M= 5.0 SD 0.9 (CGS).

6 eZ P 05 02 23, eZ S 05 04 47, D = 1400 km. BCIS: H= 04 59 20, (DECM), 35.1 N, 23.2 E, Mediterranean Sea, West of Crete. USCGS: H= 04 59 24.7, 35.0 N, 23.2 E, h= 33 km. Crete. M= 4.8 SD 1.2 (CGS).

6 eiZ -P 07 41 33.5, iZ 07 41 44.4, USCGS: H= 07 30 10.8, 14.7 N, 93.6 E, h= 33 km. Andaman Islands. M= 5.6 SD 0.9 (CGS).

6 iZ Pg 19 38 25.0, iZ Sg 19 38 31.7, D = 60 km, weak.

7 Z Pn 00 34 (00), eZ (Sn) 00 35 19, D = 730 km. USCGS: H= 00 32 22, 40.6 N, 19.4 E, h= 33 km. Albania. M= 4.4 SD 1.1 (CGS).

7 Z P 07 26 (00), eZ 07 29 18, eZ 07 36 06, USCGS: H= 07 12 36.6, 2.7 N, 124.3 E, h= 274 km. Celebes. Sea. M= 5.8 SD 0.9 (CGS).

7 eZ PKP1 11 27 22, eZ PKP2 11 28 10, USCGS: H= 11 08 13.2, 31.3 S, 179.6 E, h= 430 km. Kermadec Islands. M= 5.1 SD 1.0 (CGS).

7 Z P 14 11 (00), eZ S 14 22 45, D = 910 km. BCIS: H= 14 09 01, (DECM), 37.9 N, 15.2 E, Eastern Sicily, near Etna. M= 4.64 (Roma), felt 4° at Randazzo (Roma). USCGS: H= 14 09 02.8, 37.9 N, 15.3 E, h= 53 km. Sicily. Felt at Catania and Randazzo. M= 4.3 SD 1.4 (CGS).

8 eZ P 00 33 52, eZ pP 00 34 20, USCGS: H= 00 26 02.5, 36.9 N, 71.5 E, h= 111 km. Afghanistan-USSR border region. M= 5.0 SD 0.8 (CGS).

8 eiZ Pn 02 02 08, iZ Sn 02 03 22.8, iZ 02 03 34.1, D = 710 km. Athens: 40.9 N, 20.3 E.

8 eiZ +P 02 06 28, iZ 02 07 49.4, iZ 02 08 50.0, D = 770 km.

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- (cont.) BCIS: H= 02 09 46 (DECM), 40.9 N, 20.2 E, Albania, ML= 4.7 (Athens), USCGS: H= 02 04 42.1, 40.7 N, 20.2 E, h= 30 km. Greece - Albania border region. M= 4.7 SD 1.0 (CGS).
- 8 eZ Pn 02 16 55, eZ Sn 02 18 48, Athens: 40.9 N, 20.3 E.
- 8 eZ Pn 09 53 44, eZ (Sn) 09 55 10, D= 780 km. BCIS: H= 09 51 37, (DECM), 38 3/4 N, 21 1/4 E, Western Greece. ML= 3.9 (Athens). USCGS: H= 09 51 43.1, 39.2 N, 21.7 E, h= 45 km. Greece. M= 4.4 SD 1.5 (CGS).
- 9 eZ PP 10 23 02, eZ 10 23 50, USCGS: H= 10 06 44.1, 27.7 S, 63.1 W, h= 578 km. Santiago del Estero, Prov. Argentina. M= 5.0-5.2 (BRK), 5.8 SD 0.7 (CGS).
- 9 eZ PKP 17 12 08, USCGS: H= 16 52 01.3, 54.8 N, 136.0 W, h= 33 km. South Pacific Cordillera. M= 6 1/4 (PAS), 5.3 SD 1.1 (CGS).
- 9 eZ 23 44 05, iZ (Sn) 23 44 07.0, weak.
- 10 eZ Pn 04 53 52, iZ Sn 04 54 31.8, D = 370 km.
- 10 eZ P 21 20 03, weak.
- 11 eZ PKP 01 42 30, USCGS: H= 01 22 43.7, 21.4 S, 173.8 E, h= 32 km. New Hebrides Islands region. M= 4.8 SD 1.1 (CGS).
- 11 Z PKP 04 57 (00), USCGS: H= 04 37 16.4, 21.4 S, 169.7 E, h= 11 km. Loyalty Islands region. M= 5.0- 5.3 (BRK), 5.0 SD 1.1 (CGS).
- 11 eZ (Pn) 07 02 06, weak. BCIS: H= 07 00 29 (DECM), 36.0 N, 3 1/4 E, Algeria. Felt in Algeria, slightly damage at Blida. USCGS: H= 07 00 28.7, 36.4 N, 2.8 E, h= 33 km. Algeria. Slight damage at Blida. M= 4.6 SD 1.0 (CGS).
- 11 Z PKP 07 12 (00), USCGS: H= 06 52 11.5, 21.4 S, 174.0 E, h= 15 km. New Hebrides Islands region. M= 4.8 SD 1.1 (CGS).
- 11 iZ Pg 16 06 50.5, iZ Sg 16 06 57.6, D = 60 km.
- 11 iZ Pg 23 38 16.5, iZ Sg 23 38 21.2, D = 40 km.
- 12 eZ P 00 34(50), USCGS: H= 00 23 27.7, 22.8 S, 10.5 W, h= 33 km. South Atlantic ridge. M= 4.9 SD 1.0 (CGS).
- 12 eZ 11 21 08, USCGS: H= 11 11 31.1, 5.0 S, 11.5 W, h= 33 km. Ascension Island region. M= 4.9 SD 1.1 (CGS).
- 12 eiZ Pn 14 48 45.6, eiZ 14 49 21.6, iZ Sn 14 50 18.3, D = 890 km. BCIS: H= 14 46 39 (DECM), 39.0 N, 2 1/2 E, Western Greece. M= 3.9 (Athens).
- 12 eZ PKP 22 08 45, USCGS: H= 21 49 47.6, 5.5 S, 151.7 E, H=

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- (cont.) 50 km. New Britain region. Felt at Rabaul, Pomio, Lolobau and Ulamona, M= 6.0 - 6.4 (BRK), 5.2 SD 0.9 (CGS).
- 13 eZ PKP 00 25 33, USCGS: H= 00 05 55.8, 19.4 S, 167.5 E, h= 17 km. New Hebrides Islands region. M= 5.0 SD 1.5 (CGS).
- 13 eZ PKP 00 34 39, USCGS: H= 00 15 0.2.4, 19.4 S, 167.7 E, h= 33 km. New Hebrides Islands region. M= 4.3 SD 0.6 (CGS).
- 13 Z Pg 01 49 (00), iZ Sg 01 49 08.2, (D = 60 km).
- 13 eZ P or PKP 08 07 29, weak.
- 13 eZ +P 18 53 23, USCGS: H= 18 41 15.4, 52.7 N, 172.5 E, h= 34 km. Near Islands, Aleutian Islands. M= 5 (GOL), M= 5.7 SD 0.7 (CGS).
- 14 eZ (Sn) 14 37 03, BCIS: H= 14 32 26 (DECM), 36.0 N, 21 3/4 E, Mediterranean Sea, south of Greece. ML= 4.3 (Athens). USCGS: H= 14 32 31.0, 36.1 N, 21.9 E, h= 102 km. Southern Greece. M= 4.5 SD 1.1 (CGS).
- 15 eZ +P 10 43 07, eZ 10 43 12, USCGS: H= 10 32 48.7, 27.4 N, 91.8 E, h= 57 km. Bhutan. M= 5.8 SD 0.8 (CGS).
- 16 eZ P 00 09 53, USCGS: H= 23 57 30.1, 24.1 N, 120.7 E, h= 50 km. Taiwan. M= 5.0 SD 0.8 (CGS).
- 16 eZ P 04 11 47, BCIS: H= 04 04 00, 49.8 N, 78.0 E, M= 5.6 (Uppsala), Kazakhstan, Semipalatinsk region. Probably artificial.
- 16 eZ 05 38 55, iZ Sn 05 39 08.6, weak.
- 16 eZ (Sn) 05 40 52, traces.
- 16 eZ 06 54 39, eZ (Sn) 06 55 21, traces. BCIS: H= 06 53 42 (DECM), 47.8 N, 11.1 E, south of Bavaria, Germany.
- 16 eZ Pn 20 20 36, eZ Sn 20 21 27, D= 480 km. BCIS : H= 20 19 47 (DECM), 48.3 N, 17.1 E, (BCIS), 48.4 N, 17.3 E (Pruhonice), Little Carpatian, Czechoslovakia.
- 18 eZ 07 42 03, eZ (Sn) 07 42 19, traces.
- 18 eZ 11 24 19, eZ (Sn) 11 24 39, traces.
- 18 Z PKP 15 52 (00), eZ (PP) 15 53 31, D = 13400 km. USCGS: H= 15 33 06.5, 5.9 S, 146.6 E, h= 39 km. East New Guinea region. Felt at Lea and Bundi. M= 5.5 SD 1.2 (CGS).
- 18 eZ PKP 19 32 45, USCGS: H= 19 13 52.5, 20.7 S, 178.4 W, h= 562 km. Fiji Islands region. M= 4.0 SD 1.2 (CGS).
- 19 eiZ +P 11 08 15.5, eZ S 11 18 18, D = 8900 km. USCGS: H=

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- (cont.) 10 56 08.6, 43.0 N, 145.2 E, h= 84 km. Hokkaido, Japan region. M= 6 1/2 (PAS), 6.2 -6.6 (BRK), 6 1/4- 6 1/2 (PAL), 5.9 SD 0.9 (CGS).
- 19 eZ PKP 13 04 06, USCGS: H= 12 45 35.3, 57.8 S, 23.4 W, h= 33 km. South Sandwich Islands region. M= 5.7 SD 0.8 (CGS).
- 20 iZ Pn 06 09 57.4, iZ 06 10 02.0, iZ Pg 06 10 09.0, iZ Sn 06 10 34.7, iZ! Sg 06 10 45.4, D = 340 km. BCIS: H= 06 09 11, (DECM), 44.2 N, 17.7 E, (BCIS), 44° 11' N, 17° 38' E (Sarajevo). Bosnia and Hercegovina, Yugoslavia. I = 5°, felt at Travnik, Zenica, Breza, Sarajevo. USCGS: H= 06 09 11, 44.3 N, 17.7 E, h= 11 km. Felt in the Travnik-Sarajevo area. M= 4.2 SD 1.5 (CGS).
- 20 eZ PKP 09 59 09, eZ 10 03 30, USCGS: H= 09 39 15.2, 49.8 S, 163.4 E, h= 30 km. Auckland Islands region. Felt on Campbell Islands. M= 6 1/4 (PAS), 6.3-6.7 (BRK), 6.1 SD 1.2 (CGS).
- 20 eZ PKP 10 50 48, eZ 10 55 06, USCGS: H= 10 30 53.4, 49.8 S, 163.4 E, h= 19 km. Auckland Islands. M= 5.8 SD 1.2 (CGS).
- 20 eiZ PKIKP 10 56 47, iZ! PKHKP 10 56 50.3, iZ PKP 10 56 54.6, D = 16400 km. USCGS: H= 10 37 20.3, 20.8 S, 169.8 E, h= 129 km. New Hebrides Islands. Felt on Lifu. M= 5.3-5.5 (BRK), 5.9- SD 1.1 (CGS).
- 20 eZ 16 28 57, eZ (Sn) 16 29 30, traces.
- 20 iZ Pn 22 45 00.0, iZ 22 45 04.9, eZ Pg 22 45 11, eZ Sn 22 45 40, eZ Sg 22 45 51, D = 340 km. BCIS: H= 22 44 14 (DECM) 48.4 N, 17.1 E, (BCIS), 48.4N, 17.2 E (Bratislava), Little Carpatian, Czechoslovakia. Felt 4° at Malacky, 3-4° Bratislava.
- 22 eZ P 08 17 39, USCGS: H= 08 08 04.3, 0.7S, 20.1 W, h= 33 km. Central Mid-Atlantic ridge. M= 5.3 SD 0.8 (CGS).
- 22 eZ Pn 08 20 31, eZ (Sn) 08 21 33, (D = 580 km.).
- 22 iZ Sg 20 33 12.2, very weak. Local.
- 23 eZ PKIKP 07 15 27, eZ! PKHKP 07 15 35, eiZ PKP2 07 15 50, D = 1700 km. USCGS: H= 06 56 43.6, 21.8 S, 179.7 W, h= 595 km. Fiji Islands region. M= 6-6.4 (BRK), 5.4 SD 0.9 (CGS).
- 23 Z PKP1 07 22 (00), eZ 07 22 38, USCGS: H= 07 02 03.3, 49.7 S, 164.0, E, h= 15 km. Auckland Islands region. M= 5.7 SD 0.9 (CGS).
- 24 eZ Pn 11 30 54, iZ Sn 11 31 09.6, D = 130 km.
- 24 eZ Pn 12 54 27, eZ 12 54 37, eZ Sn 12 55 46, D = 740 km.
- 24 eZ Pn 13 24 12, iZ (Sn) 13 24 49.2, iZ! 13 24 59.2 (D=330 km).

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- 24 eZ P 17 13 22, BCIS: H= 17 08 36, 32 1/4 N, 5 3/4 W, Haut Atlas, Morocco. USCGS: H= 17 08 42, 32.5 N, 5.7 W, h= 33 km. Morocco. M= 4.3 SD 1.8 (CGS).
- 24 eZ Pn 18 48 53, eZ Sn 18 49 15, D= 190 km.
- 24 iZ Pn 22 12 53.5, iZ 22 13 24.2, eiZ Sn 22 14 10.3, D = 740 km. BCIS: H= 22 11 18 (DECM), 40.7 N, 19.7 E, Albania, M= 4.4 (Athens). USCGS: H= 22 11 17, 40.8 N, 19.7 E, h= 16 km. Albania. M= 4.4 SD 1.0 (CGS).
- 24 eZ Pn 22 28 47, iZ 22 28 51.2, iZ Sg 22 29 33.5, (D = 370 km). BCIS: H= 22 27 48 (DECM), 46.0 N, 9.4 E, Alps, near Bergamo. (East of Como Lake).
- 25 eZ +P 08 21 04, USCGS: H= 08 10 06.7, 17.7 N, 61.5 W, h= Leeward Islands. M= 4.6 SD 0.7 (CGS).
- 25 eZ P 09 02 45, USCGS: H= 08 51 49.4, 17.7 N, 61.6 W, h= 48 km. Leeward Islands. M= 4.9-5.1 (BRK), 4.8 SD 0.7 (CGS).
- 25 eZ PKP 19 54 05, USCGS: H= 19 35 04, 17.8 S, 178.2 W, h= 426 km. Fiji Islands region. M= 4.4 SD 0.6 (CGS).
- 25 eZ Pn 22 04 52.3, iZ Sn 22 05 07.1, D = 120 km.
- 26 eZ Pn 05 07 10, iZ Pg 05 07 32.4, iZ Sn 05 08 30.7, iZ Sg 05 09 13.8, D = 750 km. BCIS: H= 05 05 36 (DECM), 41.7 N, 21.3 E, Macedonia, Yugoslavia. Felt on the region of Kičevo. I = 7°, M= 4.8 (Skopje). USCGS: H= 05 05 36, 41.7 N, 21.2 E, h= 39 km. Yugoslavia. Minor damage at Kičevo. M= 4.4 SD 1.5 (CGS).
- 26 eZ (Pn) 07 24 21, eZ Sn 07 25 44, (D = 750 km). Weak.
- 26 Z 16 29 (00), eZ PP 16 30 12, eZ PPS 16 40 (00), D = 11400 km. USCGS: H= 16 11 23.9, 30.0 S, 71.5 W, h= 55 km. Near coast of Central Chile. M= 6 3/4 (PAS), 5.8 -6.0 (BRK),
- 26 eZ PKP 17 24 54, USCGS: H= 17 05 55.0, 7.1 S, 155.8 E, h= 94 km. Solomon Islands. M= 5.7 SD 0.8 (CGS).
- 27 eZ Pn 07 26 26, Z (Sn) 07 28 (00), BCIS: H= 07 24 27 (DECM) 34.3 N, 26.6 E, Mediterranean Sea, south of Crete. USCGS: H= 07 24 30, 34.4 N, 26.6 E, h= 20 km. Crete. M= 4.7 SD 0.8 (CGS).
- 27 eZ 17 12 41, Uppsala: 17 00 00 = H, Underground explosion, Nevada.
- 28 eZ P 03 02 08, USCGS: H= 02 53 48.4, 43.0 N, 79.5 E, h= 33 km. Alma-Ata region. M= 4.8 SD 1.0 (CGS).
- 28 eZ -PKHKP 05 15 57, iZ PKIKP 05 16 05.0, eZ PS 05 29 09, D= 15400 km. USCGS: H= 04 56 56.3, 6.6 S, 153.4 E, h= 44 km.

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- (cont.) New Britain region. Felt at Rabaul, Sohano and Piya. M= 6.1-6.3 (BRK). 6.5 (PAS), 6.9 (GOL), 5.9 SD 0.9 (CGS).
- 28 eZ +P 15 56 27, USCGS: H= 15 44 55.7, 59.5 N, 147.1 W, h= 28 km. Gulf of Alaska. Felt on Midleton Island. M= 5.4- 5.8 (BRK), 5.6 SD 0.7 (CGS).
- 30 eZ P 08 09 54, USCGS: H= 07 57 19.9, 28.9 N, 129.9 E, h= 32 km. Ryukyu Islands. M= 4.9-5.2 (BRK), 5.5 SD 1.1 (CGS).

Ljubljana, September 20, 1968

Interpretation: M.Hržič
Redaction: V. Ribarič

University of Ljubljana
Astronomical and Geophysical Observatory

PRELIMINARY
SEISMOLOGICAL BULLETIN

X — XII 1967

Ljubljana 1968

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

1967

PRELIMINARY SEISMOLOGICAL BULLETIN

From October 15 to December 11, 1967

Station: Ljubljana (LJU) - Coordinates: $46^{\circ} 01' 30''$ N, $14^{\circ} 51' 00''$ E
Geographic coordinates: $\lambda = 14^{\circ} 51' 00''$, $\phi = 46^{\circ} 01' 30''$
Height above sea level: 200 m
Instruments: 2 stations (LJU, LJO)

PRELIMINARY SEISMOLOGICAL
BULLETIN
(October - December 1967)

Seismicity of the area has been investigated in accordance with the method of
continuous recording of ground motion. The signals are recorded on a
magnetograph. All times are given in GMT. Time signals are recorded
and are given daily and are registered on a chronograph. There-
fore the possible time readings up to one tenth of a second are given.
Magnitudes only refer to the local magnitude scale (ML) and
distances only refer to kilometers. Abbreviations used
in the text are given in the Appendix. The data were processed by electronic computer.

October 1967

October 1967

On October 15, 1967, at 12:00 PM, a small earthquake was recorded at Ljubljana.
The magnitude was 1.5. The distance was 10 km. The depth was 10 km.
The epicenter was at 46° 01' 30'' N, 14° 51' 00'' E.

On October 16, 1967, at 10:00 AM, a small earthquake was recorded at Ljubljana.
The magnitude was 1.5. The distance was 10 km. The depth was 10 km.
The epicenter was at 46° 01' 30'' N, 14° 51' 00'' E.

On October 17, 1967, at 11:00 AM, a small earthquake was recorded at Ljubljana.

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 Observatory,
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 P.O.B. 01-20, Yugoslavia

1967

PRELIMINARY SEISMOLOGICAL BULLETIN
 from October 1 to December 31, 1967

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: sandstone (carbon);

Instruments:

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

Constats (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 or 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 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: Determination was made by electronic computer.

October 1967

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- 1 eiz P 22 46 30.0, iz Pg 22 46 40.6, iz Sn 22 47 08.9, iz Sg 22 47 18.9, D= 340 km. BCIS: H= 22 45 43 (DECM), 44.3N, 11.0 E, Toscan Appenin, Italy. USCGS: H= 22 45 44, 44.3N, 11.1E, h= 33 km. Northern Italy. Felt at Pistoia. M= 4.2 SD 0.5 (CGS).
- 2 eiz + PKIKP 00 31 35, iz PKHKP 00 31 42.7, iz PKP2 00 31 57.8, eZ 00 33 34., USCGS: H= 00 12 52.8, 21.0 S, 178.8 W, h= 604 km. Fiji Islands region. M= 5.8-6.1 (BRK), 5.2 SD 0.8 (CGS).
- 2 eZ Pn 04 07 25, eZ Sn 04 07 57, D= 290 km.

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- 2 eZ PKP 15 13 13, USCGS: 14 54 08.4, 6.7S, 153.4E, h= 27 km. New Britain region. Felt at Rabaul. M= 5.3 SD 1.0 (CGS).
- 2 eZ Pn 20 14 10, iZ Pg 20 14 21, iZ Sn 20 14 47.8, Z Sg 20 15 (00), BCIS: H= 20 13 03 (DECM), 41.1/2N, 13 3/4E, Central Italy. D= 350 km. USCGS: H= 20 13 02, 41.6N, 14.0E, h= 33 km. Southern Italy. M= 4.5 SD 1.7 (CGS).
- October 3, 1967 from 13h 43m to 19h 06m station not operational.
- 4 eZ PKP 17 40 25, USCGS: H= 17 21 20.7, 5.7S, 153.9E, h= 12 km. New Ireland region. Felt at Schano, Piva, and Buin. M= 6 3/4 (PAS), 7.0-7.2 (BRK), 7 1/4- 7 1/2 (PAL), 7.6 (GOL)
- 5 eZ Pn 05 01 (12), iZ Sn 05 01 25.7, (D= 113 km.).
- 5 iZ Pn 12 03 09.5, iZ Pg 12 03 55.0, iZ Sn 12 04 52.6, D= 980 km. BCIS: H= 12 00 49 (DECM), 37.7N, 20.7E, Ionian Sea. ML= 4.8 (Athens). USCGS: H= 12 00 51.2, 37.8N, 20.7E, h= 15 km. Ionian Sea. M= 5.0 SD 1.0 (CGS).
- 6 eZ P 04 11 19, USCGS: H= 03 59 51.0, 10.3 S, 66.4E, h= 33 km. Mid-Indian Rise. M= 5.1 SD 1.4 (CGS).
- 7 eiZ+ P 08 40 05.3, USCGS: H= 08 28 01.2, 49.2N, 156.3E, h= 33 km. Kurile Islands. M= 5.3 SD 0.9 (CGS).
- 7 eiZ P 09 18 56.4, USCGS: H= 09 06 52.3, 49.2N, 156.3E, h= 33 km. Kurile Islands. M= 4.9 SD 0.7 (CGS).
- 7 eZ PKKP 10 52 50, iZ! PKHP 10 52 54.7, eZ PKP2 10 53 02, USCGS: H= 10 33 08.2, 17.3S, 178.9W, h= 563 km. Fiji Islands region. D= 16650 km. M= 4.9 SD 0.8 (CGS).
- 8 eZ PKP 18 27 15, USCGS: H= 18 08 18.1, 5.6S, 154.0E, h= 70 km. Solomon Islands. Felt at Shano and Londolovit. M= 5.1 SD 1.0 (CGS).
- From October 8, at 20h 23m to October 9, at 20h 16m no Z records.
- 10 eZ Pn 01 30 (35), eZ (Sn) 01 32 10, Athens: H= 01 28 16, 38.6N, 21.3E, ML= 3.4, felt in Aetolia.
- 10 eZ P or PKP 03 20 56.
- 10 eZ PKP 06 16 20, USCGS: H= 06 26 46.3, 18.6S, 171.8E, h= 63 km. New Hebrides Islands region. M= 5.2 SD 0.9 (CGS).
- 10 iZ Pn 14 01 49.4, iZ Sn 14 02 07.0, D= 140 km.
- 11 eiZ P 07 52 04.6, eZ 07 56 35, BCIS: H= 07 48 41, (DECM), 35.9N, 26.8E, Aegean Sea, near Karpathos Island. ML= 4.3 (Athens). USCGS: H= 07 48 44.8, 36.1N, 27.2E, h= 35 km,

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- (cont) Dodecanese Islands, M= 4.7 SD 1.2 (CGS).
- 11 eiZ P 07 52 04.6, eZ 07 56 35, BCIS: H= 07 48 41 (DECM), 35.9N, 26.8E, Aegean Sea, near Karpathos Islands. M= 4.7 SD 1.2 (CGS).
- 11 eiZ- P 16 05 17, USCGS: H= 15 52 16.8, 30.4N, 142.6E, h= 32 km. South of Honshu, Japan. M= 5.5 SD 0.6 (CGS).
- 12 eZ Pn 01 58 (46), eZ Sn 01 59 12, (D= 250 km.). BCIS: H= 01 57 53 (DECM), 44.0N, 12.0N, Appenin Etruscan.
- 12 eZ FKHP 06 53 46, iZ PKHP 06 53 54.0, iZ PKP2 06 54 09.1, eZ 06 56 20, eZ PP 06 57 40, D= 17000 km. USCGS: H= 06 35 06.7, 21.1S, 179.2W, h= 636 km. Fiji Islands region. M= 6 (PAS), 5.6 SD 0.8 (CGS).
- 12 eZ- P 13 04 43.2, iZ pP 13 06 03.4, eZ PP 13 07 42, Z S 13 13 (00), D= 8800 km. USCGS: H= 12 53 46.9, 52.2N, 152.5E, h= 476 km. Northwest of Kirile Islands. M= 6 (PAS), 5.5- 5.9 (BRK), 5.5 SD 0.8 (CGS).
- 12 eZ P 18 46 15, iZ PKP 18 50 10.7, eZ PP 18 50 58, D= 12500 km. USCGS: H= 18 31 37.1, 7.1S, 129.8E, h= 45 km. Banda Sea. M= 6.2 SD 0.9 (CGS).
- 13 eZ Pn 16 09 (15), eZ (Sn) 16 10 31, traces. Athens: H= 16 06 41, 39.2N, 22.1E, ML= 3.6.
- 13 eZ Pn 19 31 10, eZ (Sn) 19 32 50, (D= 980 km) USCGS: H= 19 28 57, 37.8N, 21.7E, h= 58 km. Southern Greece. M= 4.4 SD 0.8 (CGS).
- 14 Z P 03 42 (00), USCGS: H= 03 31 04.5, 17.3N, 60.8 W, h= 29 km. Leeward Islands. M= 5 1/2- 5 3/4 (GOL), 5.3 SD 0.8 (CGS).
- 14 eZ PKHP 16 27 44, USCGS: H= 16 08 11.9, 15.9S, 167.2E, h= 15 km. New Hebrides Islands. Felt at Luganville. M= 5.1 SD 0.9 (CGS).
- 15 eZ P 08 13 24, iZ+! 08 13 28.0, iZ pP 08 14 08.0, D= 9900 km. USCGS: H= 08.00 50.3, 11.9N, 86.0W, h= 162 km. Near coast of Nicaragua. Felt along west coasts of Nicaragua and Costa Rica. M= 6 3/4 (PAS), 6.6- 6.9 (BRK), 6 1/4 (PAL), 6 1/4- 6 1/2 (GOL).
- 15 eZ P or PKP 08 30 58, iZ! 08 31 08.0,
- 15 eZ P or PKP 08 38 55, eZ 08 39 08.
- 15 eZ P 21 54 32, USCGS: H= 21 43 55, 36.8N, 105.0E, h= 33 km. Northern China. M= 5.1 SD 0.8 (CGS).
- 15 eZ PKP 23 23 04, USCGS: H= 23 03 15.0, 17.6S, 173.2W, h= 40 km. Tonga Islands. M= 4.6 SD 1.0 (CGS).

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- 16 iZ Pg 17 01 35.6, iZ Sg 17 01 39.5, D= 30 km.
- 16 eZ PP 17 16 17, USCGS: H=16 58 02.0, 1.7N, 127.5E, h= 120 km. Halmahera. M=5.6 SD 0.9 (CGS).
- 16 eZ P 20 28 58, USCGS: H=20 16 56.1, 17.3S, 66.6E, h= 18 km. Mascarene Islands region. M=5.2 SD 1.2 (CGS).
- 16 eZ PKP 22 35 33, USCGS: H=22 16 49, 18.0S, 178.4W, h= 593 km. Fiji Islands region. M=4.2 SD 0.8 (CGS).
- 17 eZ (P) 02 02 24, traces.
- October 17, from 04h 36m to 05 h 45m no Z records.
- 17 eZ PKIKP 14 27 37, iZ! PKIKP 14 27 45.6, iZ PKP2 14 27 59.8
eZ pPKP 14 30 12, USCGS: H= 14 08 58.4, 179.1W, 21.2S, Fiji Islands region. M=4.8 SD 0.9 (CGS).
- 17 eZ 15 39 32, weak.
- 17 eZ P 21 18 15, USCGS: H=21 05 22.5, 17.2 N, 121.8E, h= 33 km. Luzon, Philippine Islands. M= 5.4 SD 1.0 (CGS).
- 17 eZ P or PKP 22 17 59, weak.
- 18 eZ- P 01 18 28, BCIS: H=01 11 39 (DECM), 79.8N, 1 3/4E, Greenland Sea, west of Spitzberg. Middle Rift. M= 6.3 (Uppsala), MPV=MSH= 6.1 (Collm), MLH= 6.0 (Roma, Strasbourg), 5.9 (Collm). USCGS: H=01 11 45, 79.8N, 2.4E, h= 33km. Greenland Sea. M= 6 3/4 (PAS), 5.8- 6.2 (BRK), 6 3/4 (GOL), 5.7 SD 0.9 (CGS).
- 18 iZ PKP 11 06 15.6, USCGS: H=10 47 22.6, 19.2S, 177.5W, h= 536 km. Fiji Islands region. M=4.3 SD 0.9 (CGS).
- 18 eZ Pg 13 58 48, iZ Sg 13 58 52.1, D=30 km. Weak.
- 18 eZ PKP 22 26 24, USCGS: H=22 06 23.5, 33.9S, 179.6W, h=26 km. South of Kermadec Islands. M=5.2- 5.4 (BRK), 5 3/4 (GOL) 5.4 S, 1.1 (CGS).
- 18 eZ PKP 23 54 31, USCGS: H=23 35 11.0, 13.9S, 166.5E, h= 87 km. New Hebrides Islands. M=5.0 SD 1.2 (CGS).
- 20 eZ PKP 00 39 32, USCGS: H=00 19 57, 21.4S, 170.1E, h= 130 km. Loyalty Islands region.
- 20 Z P 06 52 (00), BCIS: H=06 47 31 (DECM), 38.ON, 30 1/4E, Taurus (Anatolia). USCGS: H= 06 47 38.0, 37.9N, 37.7E, h= 33 km. Turkey. M= 4.8 SD 1.2 (CGS).
- 20 eZ P 07 49 27, BCIS: H=07 44 57, 38.4N, 38.6E, Taurus (Anatolia).

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- 20 eZ PKIKP 16 15 20, eZ PPKP 16 15 31, eZ PKP2 16 15 41, eZ 16 17 40, D=17000 km. USCGS: H=15 56 33.4, 20.6S, 178.1 W, h= 556 km. Fiji Islands region. M=5.0 SD 0.8 (CGS).
- 21 eZ PF 02 53 48, USCGS: H=02 35 12.3, 27.7S, 71.8W, h= 13 km. Near coast of northern Chile. M=5 - 5.2 (BRK), 5.4 SD 1.1 (CGS).
- 21 iZ P 05 06 35.8, eZ (S) 05 13 13, BCIS: H=05 00 00 (DECM), 73.5N, 54.5E, Novaya Zemlya region. Probably artificial, M=6.5 (Uppsala). USCGS: H=04 59 58.1, 73.4N, 54.8E, h= 0 km. Novaya Zemlya, M= 5.9 SD 0.9 (CGS).
- 21 eZ Pn 16 55 49, iZ 16 55 54.7, iZ Pg 16 56 00.5, iZ Sn 16 56 28.3, iZ Sg 16 56 41.5, D = 390 km. BCIS: H=16 54 56 (DECM), 43.ON, 17.0E, Dalmatian coast (Yugoslavia). M= 3.7 (Beograd). USCGS: H=16 54 58.3, 43.3N, 168E, h= 34 km. Yugoslavia. M=4.3 SD 0.7 (CGS).
- 22 eZ P 01 05 25, eZ (PP) 01 09 21, USCGS: H=00 52 10.9, 22.3 S, 65.7W, h= 259 km. Jujuy Province, Argentina. M=4.8- 5.2 (BRK), 5.2 SD 0.9 (CGS).
- 22 eZ Pn 05 40 36, eZ 05 42 49, Weak.
- 22 Pn 17 43 54, iZ 17 44 34, weak.
- 22 eZ P 18 57 07, USCGS: H=18 48 45, 31.ON, 41.4W, h= 33 km. North Atlantic ridge. M=4.7 SD 0.6 (CGS).
- 22 eZ P 23 16 50, USCGS: H=23 04 14.2, 27.4N, 128.3E, h= 34 km. Ryukyu Islands. M= 5.2 SD 0.9 (CGS).
- 23 eZ P or PKP 02 50 45, weak.
- 23 eZ- P 08 39 16, USCGS: H=08 27 06.2, 28.9N, 139.1E, h= 463 km. Bonin Islands region. M=5.5-5.7(BRK), 5.3 SD 0.6 (CGS).
- 23 iZ Pg 20 49 34.7, eZ Sg 20 49 40, D=45 km.
- 24 eZ PKP 03 32 55, eZ pPKP 03 33 43, USCGS: H=03 13 26.5, 31.3 S, 179.7W, h= 250 km. Kermadec Islands. M=5.4 SD 0.9 (CGS).
- 24 eZ 06 16 52, eZ 06 18 15, eZ Sn 06 18 36, D = 910 km. BCIS: H= 06 14 39, (DECM), 38 3/4N, 21 3/4E, Greece. USCGS: H= 06 14 43.0, 38.9N, 22.0E, h= 29 km. Greece, M=4.3 SD 1.8 (CGS).
- 24 eZ Pn 10 33 48, eZ Sn 10 34 28, D=380 km.
- 24 eZ P 11 04 05, eZ! 11 04 10, USCGS: H=10 51 15.1, 3.1S, 101.5E, h= 63 km. Southern Sumatra. M=5.5 SD 0.9 (CGS).
- 24 iZ Pg 16 18 05.5, iZ Sg 16 18 19.2, D= 110 km. BCIS: H=

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- (cont.) 16 17 47, 46.1N, 15.9E, Yugoslavia, felt at Krapina.
- 24 iZ Pg 18 56 29.4, eZ Sg 18 56 43, D= 110 km, traces.
- 24 eZ Pg 22 12 34.8, Z Sg 22 13 (00), D=110 km, traces.
- 25 iZ+P 01 11 47.6, iZ pP 01 12 13.3, Z 01 15 (00), USCGS: H=00 59 22.6, 24.5 N, 122.2E, h= 65 km. Taiwan region. 2 killed, 3 injured and mayor property damage. M= 6.2 - 6.5 (BRK), 7.0 (GOL), 6.0 SD 1.0 (CGS).
- 25 Z P or PKP 01 38 (00).
- 25 eZ P or PKP 01 51 28.
- 25 eZ P 02 09 48, USCGS: H=01 57 23.1, 24.3N, 122.2E, h= 67 km, Taiwan region. M=5.3 SD 0.9 (CGS).
- 25 eZ Pn 12 25 46, iZ 12 25 59.2, iZ Sn 12 26 19.0, D= 300 km.
- 25 eZ Pn 19 20 39, eZ (Sn) 19 21 20, D = 300 km, weak.
- 25 eZ Pn 22 25 28, eZ Sn 22 26 00, D = 300 km, weak.
- 25 eZ Pn 23 29 21, eZ Sn 23 29 54, D = 3 00 km, weak.
- 26 eZ P 00 34 47, USCGS: H=00 22 21.6, 24.5N, 122.2E, h= 63km. Taiwan region. Felt at Taipei. M=5.6 SD 1.0 (CGS).
- 26 eZ P 04 58 55, eZ S 05 01 32, D= 1560 km. BCIS: H=04 55 40 (DECM), 37.4N, 29.1E, Central Anatolia. ML= 4.9 (Athens). USCGS: H= 04 55 38.3, 37.3N, 29.1E, h= 35 km. Turkey. M= 5.1 SD 0.8 (CGS).
- 26 eZ PKP 09 47 16, eZ 09 47 34, weak. USCGS: H= 09 28 29.8, 6.9S, 131.1E, h= 30 km. Tanimbar Islands region. M=4.8 SD 0.9 (CGS).
- 26 eZ P 12 32 27, USCGS: H=12 21 33.0, 17.7N, 60.9W, h= 33 km. Leeward Islands. M=5.2 SD 0.7 (CGS).
- 26 eZ+ 0 13 55 38, USCGS: H= 13 44 45.1, 17.6N, 61.0W, h= 37 km. Leeward Islands. M= 5.3 SD 0.8 (CGS).
- 26 Z Pn 14 32 (00), eZ 14 32 42, eZ 14 32 56, weak.
- 26 Z P 17 36 (00), eZ PP 17 40 36, D= 11700 km. USCGS: H=17 22 05.3, 0.2S, 125.2E, h= 42 km. Molucca Sea. M= 5.6 SD 1.3 (CGS).
- 26 eZ P- 20 29 33, USCGS: H=20 19 43.7, 17.4N, 46.4W, h= 33 km. North Atlantic ridge. M=4.7 SD 0.7 (CGS).
- 27 eiZ P or PKP 01 25 31.7

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- 27 eZ P 08 10 50, BCIS: H= 08 05 13, (DECM), 34 1/4N, 46.0E, Zagros Mounts. Irak-Iran border region. USCGS: H=08 05 14, 34.3N, 46.2E, h= 68 km. Western Iran. M=5.0 SD 1.3 (CGS).
- 27 eZ 17 40 35, eZ (Sn) 17 41 37, eZ 17 41 57, traces.
- 27 eZ P 20 53 57.6, USCGS: H=20 41 33.0, 24.3N, 122.2E, h= 74 km. Taiwan region. M=4.9 SD 0.9 (CGS).
- 28 eZ P 00 01 00, eZ 00 02 16.
- 28 eZ P 00 14 23, USCGS: H=00 02 21, 16.2S, 66.9E, h= 33 km. Mid-Indian Rise. M= 4.6 SD 1.6 (CGS).
- 28 eZ 00 40 30, eZ 00 41 24, traces.
- 28 eZ 02 19 02, eZ 02 20 53, traces.
- 28 eZ Pg 13 59 (18), iZ Sg 13 59 32.8, very weak. D= 120 km.
- 28 eZ P 18 51 22, USCGS: H=18 42 13.7, 24.9N, 45.9W, h= 33 km. North-Atlantic ridge. M= 5.1 SD 0.9 (CGS).
- 28 eZ P 19 30 37, USCGS: H= 19 18 58, 24.9N, 45.9W, h= 33 km. North-Atlantic ridge. M=4.5 SD 0.7 (CGS).
- 29 iZ Pg 09 12 07.3, iZ Sg 09 12 14.2, D=60 km.
- 30 eZ PKP 02 56 30, USCGS: H= 02 36 45.1, 22.0S, 170.1E, h= 32 km. Loyalty Islands region. M=4.4 SD 1.1 (CGS).
- 30 eZ P 06 11 49, BCIS: H=06 04 00, 49.8N, 78.0E, Kazakhstan, Semipalatinsk region. Probably artificial. USCGS: H=06 03 57.9, 49.8N, 78.1E, h= 0 km. Eastern Kazakh SSR, M= 5.5 SD 0.9 (CGS).
- 30 eZ PKP 10 34 31, USCGS: H=10 14 43.9, 19.7S, 177.3E, h= 40 km. South of Fiji Islands. M= 5.4 SD 0.9 (CGS).
- 31 eZ Pg 18 04 29, iZ Sg 18 04 44.8, D=144 km.
- 31 eZ Pn 21 10 05, iZ 21 10 07.8, iZ 21 10 47.3, eZ 21 11 40, D= 910 km. BCIS: H=21 08 10 (DECM), 38.0N, 14.7E, h= 70 km. Sicily. M= 5.4 cca (Roma). MLH= 5-5 1/4 (Strasbourg), 5.1 (Collm), 5.0 (Moxa). Largely felt in Sicily. Slight damage at S. Stefano di Camastra, S. Agata di Militello and Mistretta. Felt at Palermo, Trapani, Caltanissetta, Catania, Enna, Agrigento, Messina. USCGS: H= 21 08 07.2, 37.8N, 14.6 E, h= 33 km. Sicily. Slight property damage at Mistretta, felt widely. M= 4.8 SD 1.0 (CGS).
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- 3 Z PKP 07 52 (00), eZ 07 52 56, eZ PP 07 55 22, D= 16000 km.

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- (cont.) USCGS: H= 07 32 50.1, 18.7S, 169.0E, h= 230 km. New Hebrides Islands, felt at Port Vila. M= 4.7- 5.0 (BRK), 5.3 SD 1.0 (CGS).
- 33 iZ- Pg 13 20 43.2, iZ Sg 13 20 54.4, D= 90 km. BCIS: H= 13 20 33 (DECM), 45.5N, 14.6E, Yugoslavia.
- 34 eiZ- PKIKP 10 35 37.8, Z PKHKP 10 35 (00), iZ PKP2 10 36 11.0 USCGS: H= 10 17 14.7, 17.8S, 179.0W, h= 573 km. Fiji Islands region. M= 6 1/4 (PAS).
- 34 eZ+ P 13 39 15, eZ PP 13 42 32, D= 9200 km. USCGS: H= 13 26 47.7, 37.4N, 141.6E, h= 46 km. Near coast of Honshu, Japan, felt at Tokyo. M= 5.7 SD 0.8 (CGS).
- 34 eZ P 14 42 46, USCGS: H= 14 30 37.5, 43.5N, 144.1E, h= 30 km. Hokkaido, Japan region. M= 6 (GOL), 5.8 SD 0.9 (CGS).
- 34 eZ P 16 39 55, eZ pP 16 40 20, eZ (PP) 16 43 40, eZ 16 50 20, USCGS: H= 16 26 48.2, 2.8S, 77.7W, h= 99km. Peru- Ecuador border region. M= 5.5 5.9 (BRK), 6.0 SD 1.0 (CGS).
- 5 eZ Pn 00 28 23, eZ Sn 00 30 05, BCIS: H= 00 26 09, (DECM), 38.0N, 20 1/2E, Ionian Islands region. D= 1000 km. USCGS: H= 00 26 12.9, 38.1N, 20.5E, h= 33 km. Greece. M= 4.3 SD 1.4 (CGS).
- 55 eZ P 01 59 42, eZ 02 00 28, weak.
- 6 eZ Pn 10 35 00, eZ Sn 10 36 48, D= 1100 km. BCIS: H= 10 32 57 (DECM), 39.0N, 20 1/2E, Ionian Islands region. M= 4.2 (Athens)
- 7 eZ PKP 04 08 55, eZ 04 09 12, USCGS: H= 03 49 17.4, 14.9S, 173.0W, h= 43 km. Samoa Islands region. Felt at Apia. M= 5 1/2 (GOL), 5.6 SD 1.1 (CGS).
- 7 Z Pn 05 46 (00), eZ Sn 05 46 34, D= 310 km. BCIS: H= 05 45 24, 44.1N, 11.9E, Apennin Etruscan, Italy.
- 7 eZ Pg 13 13 46, eZ 13 13 51, (D= 50 km.) very weak.
- 8 eZ P 03 23 23, USCGS: H= 03 10 53.3, 16.8N, 85.9W, h= 28 km. Caribbean Sea. M= 5.4-5.7 (BRK), 5 1/4- 5 1/2 (GOL), 5.4 SD 0.9 (CGS).
- 8 iZ Pg 13 56 09.0, iZ Sg 13 56 11.6, D= 20 km, very weak.
- 8 eiZ Pn 17 43 00.0, eZ 17 43 35, D= 320 km. BCIS: H= 17 42 14 (DECM), 45.8N, 10.8E, North of Garda Lake region.
- 9 eZ- PKP 02 36 12, eZ 02 40 31, D= 12100 km. USCGS: H= 02 18 45.5, 7.2S, 123.6E, h= 560 km. Banda SEA. M= 5.8 SD 1.0 (CGS).
- 9 eZ Pn 14 52 12, BCIS: H= 14 48 45 (DECM), 35.5N, 27.7E, h= 50 km. Mediterranean Sea. East of Island Karpathos. USCGS:

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- (cont.) 14 48 44.2, 35.5N, 27.8E, h= 50 km. Dodecanese Islands, M= 5.8 SD 1.0 (CGS).
- 9 iZ- P 18 32 05.0, USCGS: H= 18 19 35.0, 35.5N, 140.1E, h= 68 km. Near east coast of Honshu, Japan. Felt at Tokio. M= 5.3 SD 0.8 (CGS).
- 9 eZ PKP 20 31 13, USCGS: H= 20 11 32.1, 15.1S, 173.2W, h= 65 km. Tonga Islands. M= 4.9 SD 0.7 (CGS).
- 10 eZ PKP 13 29 57, eZ PKP 13 30 04, USCGS: H= 13 11 18.1, 18.0S, 178.5W, h= 592 km. Fiji Islands region. M= 5.0 SD 0.7 (CGS).
- 10 eZ P 18 50 01, eZ 18 50 07, USCGS: H= 18 38 37.6, 6.0S, 71.9E, h= 32 km. Chagos Archipelagos region. M= 5.4 SD 0.8 (CGS).
- 11 eZ- P 12 07 19, USCGS: H= 11 55 55.6, 6.0S, 71.4E, h= 37km. Chagos Archipelago region. M= 5.6 SD 0.9 (CGS).
- 11 eZ- P 12 26 21, USCGS: H= 12 14 57.3, 6.0S, 71.3E, h= 34km. Chagos Archipelago region. M= 5.7-5.9 (BRK), 5.7 SD 0.9 (CGS)
- 11 eZ 16 34 50, eZ Sg 16 34 56, traces.
- 11 eZ- P 18 11 24, USCGS: H= 18 00 00.7, 6.1S, 71.4E, h= 33km. Chagos Archipelago region. M= 5.7 SD 1.1 (CGS).
- 11 eZ- P 20 29 36, USCGS: H= 20 18 11.1, 6.0S, 71.3E, h= 20km. Chagos Archipelago region. M= 5.4 SD 0.9 (CGS).
- 12 eZ+ PKIKP 10 56 36, eZ! PKHKP 10 56 42, eZ PKP2 10 56 53, D= 16800 km. USCGS: H= 10 36 52.0, 17.2S, 172.0W, h= 34km. Tonga Islands region. Felt in Samoa Islands. M= 6-6 1/4 (PAS), 5.6- 5.8 (BRK), 5 3/4- 6 (GOL), 5.6 SD 0.9 (CGS).
- 12 eZ PKIKP 17 44 17, eZ PKHKP 17 44 22, eZ PKP2 17 44 42, D= 17400 km. USCGS: H= 17 24 31.9, 22.8S, 170.7E, h= 26 km. Loyalty Islands region. M= 5.1 SD 1.1 (CGS).
- 14 eZ PKP 05 47 09, Z pPKP 05 48 (00), USCGS: H= 05 28 36.9, 5.4S, 147.1E, h= 201 km. East New Guinea region. M= 4.9-5.3 (BRK), 5.8 SD 0.8 (CGS).
- 14 eZ 07 37 56, eZ (Sg) 07 38 04, traces.
- 15 eZ 17 53 24, eZ 17 53 48, traces.
- 15 eZ P or PKP 19 42 18.
- 15 eZ Pg 21 34 41, iZ Sg 21 34 57.7, D= 140 km.
- 15 eZ PP 21 50 41, eZ 22 01 50, USCGS: H= 21 31 51.5, 28.7S, 71.2W, H= 15 km. Near coast of Central Chile. Slight damage

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- (cont.) at Coquimbo. Felt in central area. M= 6- 6 1/4 (PAS), 5.7 (BRK), 6- 6 1/4 (GOL), 6.2 SD 0.8 (CGS).
- 16 eZ Pn 10 15 43, eZ Sn 10 17 02, eZ Sg 10 17 42, D=750 km. BCIS: H= 10 13.6, 41.25N, 20.75E, Macedonia and Ohrid Lake region. Felt at Ohrid. Io= V (MCS).
- 16 eZ (Pn) 10 18 11, eZ Sn 10 19 27, (D= 750 km), BCIS: H= 10 15.9, Io= V-VI (MCS), 41. 1/4N, 20 3/4E, Macedonia, Ohrid Lake region. Felt at Ohrid.
- 16 eZ Sn 18 08 59, eZ 18 09 03, traces.
- 17 eiZ PKP 01 49 58.3, eZ pPKP 01 50 25, USCGS: H=01 30 31.1, 18.8S, 168.7E, h= 102 km. New Hebrides Islands. Felt at Port Vila. M= 4.8 SD 1.1 (CGS).
- 17 eZ P 05 07 38, BCIS: H=04 58 53, 28 1/2N, 43 3/4W, Central Atlantic ridge. M=6 (PAS), MLH=5.6 (Strasbourg), 5.4 (Prunonice). USCGS: H= 04.58 56.8, 28.5N, 43.8W, h= 33 km. North Atlantic ridge. M= 5.5- 5.7(BRK), 5.2 SD 1.0 (CGS).
- 17 eZ PKP 09 38 36, USCGS: H=09 19 24.2, 6.3S, 154.8E, h=291 km. Solomon Islands. M=4.6-5 (BRK), 5.0 SD 0.9 (CGS).
- 17 eZ PKP 10 29 05, USCGS: H=10 10 04.7, 13.7S, 167.5E, h=215 km. New Hebrides Islands, M=4.5SD 0.8 (CGS).
- 17 eZ Pn 20 45 30, eZ 20 45 40, traces.
- 18 eZ Pn 02 34 30, eZ (Sn) 02 36 44, D= 1330 km. BCIS: H= 02 31 32 (DECM) 35.0N, 23.0 E, Mediterranean Sea. West of Crete. MLH= 5.1(Strasbourg), ML= 4.7 (Athens). USCGS: H= 02 31 35.4 35.2N, 23.1E, h= 43 km. Crete. M= 4.5 SD 0.9(CGS).
- 18 eZ Pn 16 53 22, eZ 16 53 50.
- 18 eZ PKP 19 58 49, USCGS: H= 19 39 27, 19.1S, 169.0E, h= 148 km. New Hebrides Islands. M= 4.4,SD 1.3 (CGS).
- 19 Z= Pn 01 32 (00), eZ Sn 01 33 24, D= 760 km. BCIS: H=01 30.5 41 1/4 N, 20 3/4E, Macedonia, Ohrid Lake region. Felt on the region of Ohrid. Io= V-VI (MCS), M= 3.7 (Skopje). USCGS: H= 01 30 25, 41.1N, 20.5E, h= 32 km. Albania. Felt at Ohrid, Yugoslavia. M=4.3 SD 1.7 (CGS).
- 19 eZ P 12 19 30, USCGS: H= 12 06 59.5, 36.4N, 141.1E, h= 41 km. Near coast of Honshu, Japan. Felt at Tokyo. M=5.5 SD 0.9 (CGS).
- 19 eiZ Pn 14 32 27, eZ Sn 14 33 10, D= 300 km. BCIS :H= 14 31 31, (DECM), 44.3N, 104E, Toscan Apennin.
- 19 eZ PKIKP 17 49 04, eZ PKHKP 17 49 09, iZ PKP2 17 49 30.8, USCGS: H= 17 29 20.9, 22.6S, 170.9E, h= 33 km. Loyalty

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- (cont.) Islands region. M= 5.2 SD 1.1 (CGS).
- 19 eZ PKIKP 18 08 58, eZ PKHKP 18 09 07, USCGS: H= 17 49 20, 22.6S, 170.8E, h= 38 km. Loyalty Islands region. M=4.5 SD 1.3 (CGS).
- 19 Z PKP 18 52 (00), USCGS: H=18 32 18, 22.6S, 171.0E, h=km. 21 km. Loyalty Islands region. M= 4.7 SD 2.1 (CGS).
- 19 eZ PKIKP 19 25 46, eZ PKHKP 19 25 54, USCGS:H= 19 05 57, 22.7S, 171.0E, h= 33 km. Loyalty Islands region. M=4.4 SD 1.0 (CGS).
- 19 eZ PKP 20 39 24, USCGS: H=20 19 35, 20.6S, 170.7E, h= 33 km. Loyalty Islands region. M= 4.3 SD 1.7 (CGS).
- 21 iZ P 09 02 41.4, USCGS: H=08 53 22.4, 0.1 N, 17.1 W, h= 33 km. North of Ascension Island. M=4.8 SD 1.3 (CGS).
- 21 eZ (Sg) 20 27 36, traces.
- 21 eZ Pn 13 49 53, eZ 13 50 49, Z 13 51 (00).
- 21 eZ P 21 56 18, USCGS: H= 21 56 18, USCGS: H=21 50 24.3, 48.2N, 27.8W, h= 33 km. North Atlantic ridge. M= 5.0 SD 0.9 (CGS).
- 23 eZ PKIKP 03 45 15, eZ PKHKP 03 45 20, eZ PKP2 03 45 25, D= 16800 km. USCGS: H=03 25 33.1, 23.2S, 171.7E, h= 18 km. Loyalty Islands region. M=4.6SD 1.2 (CGS).
- 22 eZ PKIKP 15 39 09, eZ PKHKP 15 39 13.6, iZ PKP2 15 39 21.4, D= 16700 km. USCGS: H= 19 19 26.8, 22.7S, 170.9E, h= 42km. Loyalty Islands region. M= 6.1- 6.3 (BRK), 5 3/4- 6 (GOL), 5.2 - SD 1.3 (CGS).
- 23 eZ P 08 44 04, eZ (PP) 08 46 09, eZ S, 08 46 40, D=5000km. USCGS: H= 08 35 49.5, 14.5E, 52.1E, h= 3 km. Eastern Gulf of Aden. M= 6 3/4 - 7 (GOL).
- 23 eZ Pn 13 19 57, eZ Sn 13 20 38, weak, D=370 km. BCIS: H= 13 19 04, 47.9N, 11.0E, South Baviera, aftershock of the seism of October 9, 1967 at 10h 03m.
- 23 iZ P 13 48 52.5, eZ 13 54 31, BCIS :H= 13 41 59 (DECM), 80.2 N, 1 1/2W, Central Ridge. Arctic Ocean, north -west of Spitsbergen. M= 6 1/2 (Uppsala). MSH= 6.2 (Collm), MLH= 6.1 (Strasbourg), MTV= 6.0 (Collm), MLH= 5.8(Collm), 5.6(Prunonice). USCGS: H= 13 42 01.6, 80.2N, 1.0W, North of Svalbard, h= 10 km. M= 6 1/4 (PAS), 6 3/4 -7 (GOL), 5.8 SD 0.8 (CGS).
- 24 eZ PKIKP 06 01 09, iZ PKHKP 06 01 13.3, USCGS: H= 05 42 14.0, 16.4S, 177.9W, h= 428 km. Fiji Islands region. M= 5.4 SD 0.8 (CGS).
- 24 eZ Pg 11 39 56, Z Sg 11 40 (00), very weak.

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- 24 eZ Pg 16 03 07, iZ Sg 16 03 09.6, D= 20 km.
- 25 eZ PKP 13 18 32, USCGS: H=12 58 48.1, 22.6S, 170.7E, h= 64 km. Loyalty Islands region. M= 4.8 SD 1.1 (CGS).
- 26 eZ P 00 20 46, USCGS: H=00 08 09.8, 28.6N, 130.0E, h= 33 km. Ryukyu Islands. Felt on Amami Oshima. M= 5.7 SD 1.1 (CGS).
- 26 eZ P or PKP 03 07 43,
- 26 eZ 03 11 07, eZ PP 03 11 52, USCGS: H= 02 53 57.8, 8.1S, 112.9E, h= 80 km. Java. M= 5.7 SD 0.8 (CGS).
- 26 eZ 09 1823, traces.
- 26 eZ PKP 12 15 38, USCGS: H=11 55 53.3, 22.9S, 171.4E, h= 58 km. Loyalty Islands region. M=4.7 SD 1.2 (CGS).
- 27 eZ PKP 08 38 (32), USCGS: H= 08 18 42.4, 21.3S, 174.3W, h= 33 km. Tonga Islands. M= 5.3- 5.5 (BRK), 5.4 SD 0.8(CGS).
- 28 iZ P 02 49 07.4, iZ pP 02 49 41.3, USCGS: H=02 36 54.1, 32.1N, 130.8E, h= 5- 5.2 (BRK), 5.6 SD 0.9 (CGS).
- 28 iZ Pn 12 47 44.3, iZ Sn 12 48 (06.1), (D= 190 km).
- 29 eZ P 01 34 34, USCGS: H= 01 23 34.5, 18.4N, 62.4 W, h=58 km. Leeward Islands. M=5.1 SD 0.9 (CGS).
- 29 iZ Pg 23 42 17.2, iZ Sg 23 42 32.6, D= 140 km.
- 30 iZNE!+ Pn 07 25 25.1, iZNE!! Sn 07 26 39.3, D= 700 km. BCIS: H= 07 23 52 (DECM), 41o21'N-3", 20°27'E+3", h= 30 km. Albania-Yugoslavia border region, southwest of Debar. Destructive: IX (MCS) at Debar(Yugoslavia), on the region of Peshkopia (Albania); 18 killed (11 in Albania, 7 in Yugoslavia); 174 injured (134 in Albania, 40 in Yugoslavia). Felt VII (MCS) on the region of Kiševo, VI - VII at Ohrid, V - VI at Skopje, IV at Sarajevo, III at Beograd. M= 6.7(Athens), MLH= 6.7(Strasbourg), M= 6.6 (Uppsala), MLH= 6.1 Praha), M=6(Beograd), MLH= 5 3/4 (Moza). USCGS: H= 07 23 51.5, 41.5N, 20.5E, h= 29km. Albania. 11 killed and 134 injured at Peshkopi, Albania, 7 killed and 40 injured at Debar, Yugoslavia. Considerable damage in Peshkopi - Debar area. M= 6 1/2 (PAS), 6.6- 6.8 (BRK), 6 3/4 (PAL), 6 1/2 - 6 3/4 (GOL), 6.0 - SD 1.0 (CGS).
- 30 iZ Pn 07 44 26.7, iZ! Sn 07 45 39.5, D=700 km. BCIS: H= 07 42 53, USCGS: H=07 42 53, 41.3N, 20.5E, h= 33 km. Albania. M= 4.8 SD 1.6 (CGS).
- 30 eZ 07 56 (00), iZ Sn 07 56 49.0, D= 700 km. BCIS: H=07 53 53, USCGS: H=07 53 49, 41.3N, 20.5E, h= 33 km. Albania. M= 4.3 SD 1.3 (CGS).

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- 30 eZ Pn 08 13 06, iZ Sn 08 14 17.5, D= 680 km. BCIS: H= 08 11.6, USCGS: H=08 13 20, 41.7N, 20.8E, h= 33 km. Albania. M= 4.5 SD 1.0 (CGS).
- 30 eZ 09 11 24, eZ 09 12 56.
- 30 eZ Pn 09 22 17, eZ (Sn) 09 23 30, D= 690 km.
- 30 eZ Pn 09 53 00, eZ Sn 09 54 13, iZ Sg 09 54 54, D= 690 km.
- 30 Z Pn 09 57 (00), eZ 09 58 15, eZ Sg 09 58 54, D= 700 km.
- 30 eZ Pn 10 15 26, eZ 10 16 40, iZ Sg 10 17 16.6, D=700 km. USCGS: H=10 13 53, 41.7N, 20.4E, h= 33 km. Albania. M=4.3 SD 0.5 (CGS).
- 30 eZ Pn 11 59 05, iZ Sn 12 00 20.4, iZ Sg 12 00 58.4, D=700 km.
- 30 eZ 12 10 29, eZ (Sn) 12 11 14.
- 30 eZ Pn 13 20 21, eZ Sn 13 21 35, eZ 13 22 18, D= 700 km.
- 30 eZ Pn 14 10 26, eZ Sn 14 10 40, eZ 14 12 09, D= 700 km.
- 30 eZ Pn 17 08 14, eZ Sn 17 09 50.3, D= 700 km.
- 30 eZ Pn 22 54 48, Z Sn 22 55 (00), D= 690 km.

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- 1 eZ Pn 00 04 51, eZ (Sg) 00 06 40, D= 700 km.
- 1 eZ Pn 01 45 22, eZ Sg 01 47 13.2, D= 700 km.
- 1 eZ Pn 04 57 48, eZ Sn 04 58 58, D= 680 km.
- 1 eZ Pn 07 35 35, eZ Sg 07 3726, D= 700 km.
- 1 eZ Pn 08 40 13, eZ Sn 08 41 28, eZ Sg 08 42 05, D= 700 km.
- 1 eZ Pn 09 16 58, eZ Sn 09 18 11, iZ Sg 09 18 49.6, D= 700km.
- 1 eZ Pn 10 26 28, eZ 10 27 09, eZ 10 28 06.
- 1 eiZ+ P 14 08 50, eZ PP 14 11 50, D= 8700 km. USCGS: H= 13 57 02.4, 49.5N, 154.4E, h= 136 km. Kurile Islands. M= 5.4- 5.6 (BRK), 6 1/4 (GOL), 5.9 SD 0.9 (CGS).
- 1 eZ Pn 14 47 43, eZ Sn 14 49 (00), eZ Sg 14 49 35, D=720km.
- 1 eZ 16 5953, eZ (Sn) 17 00 31, weak.
- 1 iZ Pn 18 32 34.0, iZ Sn 18 33 48.6, iZ Sg 18 34 24.7,

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- (cont.) BCIS: H= 18 31 04, (DECM), 41.2N, 20.2E, D= 700 km. Aftershock of the seism of November 30, 1967 at 07h 23m.
- 1 eZ Pn 20 09 24, eZ Sn 20 10 37, eZ Sg 20 11 19, D= 710 km. BCIS: H= 20 07 53, (DECM), 41.1N, 20.5E, aftershock.USCGS: H= 20 07 50.9, 41.2N, 20.1E, h= 33 km. Albania. M= 4.7 SD 1.2 (CGS).
- 1 eZ P 20 28 12, USCGS: H=20 15 55.2, 8.6N, 125.8E, h= 63km. Mindanao, Philippine Islands. M= 5.1 SD 0.5 (CGS).
- 1 eZ 20 47 08, eZ 20 47 46.
- 2 eZ Pn 00 25 49, iZ Pg 00 26 19.6, iZ Sn 00 27 04.9, iZ Sg 00 27 41.2, D= 710 km. BCIS: H=00 24 16 (DECM), 41.3N, 20.4E, aftershock. ML= 4.5 (Athens). USCGS: H=00 24 16, 41.3N, 20.6E, h= 29 km. Albania. M= 5.1 SD 1.4 (SCGS).
- 2 eZ Pn 09 28 40, eZ Sn 09 29 56, D= 710 km. BCIS: H= 09 27 12 (DECM), 41 1/2N, 20 1/2E, aftershock. M= 3.8 (Beograd). USCGS: H=09 27 10, 41.4N, 20.3E, h= 33 km. Albania. M= 4.5 SD 1.5 (CGS).
- 2 Z Pn 11 50 (00), eZ (Sn) 11 51 21, D=760 km.
- 2 iZNE- Pn 12 46 17.8, iZNE Sn 12 47 37.8, iZ 12 48 07.7, D= 760 km. BCIS: H=12 44 45(DECM), 41.4N, 20.3E, Albania-Yu=goslavia border region, MLH= 5 1/4- 5 1/2 (Strasbourg), 5.3 (Pruhonice), 5.2(Collm), ML= 5.0 (Athens), M= 4.6(Beograd). Aftershock of the seism of November 30, 1967 at 07h 23m. USCGS: H=12 44 42.7, 41.3N, 20.3E, h= 17 km. Albania. Felt. M=5.4 SD 1.3 (CGS).
- 2 eZ Pn 13 22 58, eZ (Sn) 13 24 21, (D=790 km.).
- 2 eZ Pn 14 19 36, eZ Sg 14 21 29.3, D= 700 km. USCGS: H= 14 18 05, 41.4N, 20.1E, h= 33 km. Albania, M=4.4 SD 1.2 (CGS).
- 2 eZ Pn 22 18 10 eZ Sn 22 19 30, eZ (Sg) 22 20 09, D= 750 km.
- 2 eZ Pn 22 26 57, eZ Sn 22 28 17, eZ Sg 22 28 57, D= 750 km.
- 2 eZ P 23 09 14, weak.
- 3 eZ (Pn) 00 14 21, eZ 00 15 31, weak.
- 3 eZ P or PKP 02 34 30,
- 3 eZ Pn 09 09 04, eZ Sn 09 10 21, iZ Sg 09 10 34.1, D= 720km.
- 3 eZ Pn 09 14 (23), eZ Sn 09 15 30.
- 3 eZ P or PKP 11 15 20.
- 3 eZ Pn 11 21 06, eZ Sn 11 22 21, eZ Sg 11 22 56, D= 700 km.

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- 3 eZ PKP 11 38 52, USCGS: H=11 19 02, 21.5S, 173.9E, h= 33 km. New Hebrides Islands region. M= 4.4 SD 1.2 (CGS).
- 3 eZ 17 39 48, eZ (Sn) 17 40 38.5, weak.
- 3 eZ Pn 18 01 00, eZ Sn 18 02 14, D= 700 km.
- 3 eZ Pn 19 12 06, eZ Sn 19 13 22, D= 710 km.
- 3 eZ+ Pn 19 50 40, iZ Pg 19 50 55.5, iZ Sn 19 51 29.1, D= 440 km. BCIS: H=19 49 41(DECM), 42.3N, 13.4E, Central Italy. Strongly felt in Abruzzes. M=4.2 (Roma), USCGS: H= 19 49 39, 42.3N, 13.6E, h= 18 km. Central Italy. Felt in the Rome area. M=4.6 SD 1.4 (CGS).
- 3 eZ Pn 21 25 48, eZ 21 26 30, eZ 21 26 40, weak.
- 3 eZ Pn 21 31 58, iZ 21 32 09.0, iZ Sn 21 32 48.1, D= 470 km. BCIS: H=21 29 59, 42.3N, 13.4E, Central Italy. Strongly felt in Abruzzes. M= 4.7 (Roma). USCGS: H= 21 30 00.3, 42.5 N, 13.2E, h= 33 km. Central Italy, felt in the Rome area. M= 4.6 SD 1.5 (CGS).
- 3 iZ Pn 22 11 45.8, iZ 22 11 54.7, iZ Sn 22 12 38.1, D= 390 km. BCIS: H=22 10 54 (DECM), 48.7N, 17.5E, Little Karpathos, (Czechoslovakia). Largely felt VI (MCS) at Cerova and Prievaly, MLH= 3.7 (Pruhonice).
- 4 eZ Pn 00 50 31, eZ Sn 00 51 50, D= 750 km. BCIS: H=00 48 55 (DECM), 41.3N, 20.9E, Macedonia (Yugoslavia). Felt VII (MCS) on the region of Kruševu. M=4.8 (Skopje). USCGS: H=00 48 53, 41.1N, 20.6E, felt in Kruševu area. M=4.2 SD 1.3 (CGS).
- 5 eZ Pn 01 57 06, eZ Sn 01 58 23, D= 720 km.
- 5 eZ Pn 05 23 06, iZ 05 23 09.1, iZ! 05 23 12.9, BCIS: H=05 20 02 (DECM), 36.4N, 26.9E, h= 140 km. Sea of Crete. USCGS: H= 05 20 12.9, 36.5N, 26.9E, h= 138 km. Dodecanese Islands. M= 4.6 SD 0.9 (CGS).
- 5 iZ Pg 13 59 47.5, iZ Sg 13 59 51.8, D= 33km.
- 5 eZ 16 03 47, eZ Sn 16 04 38, traces.
- 5 eZ PKP 17 47 17, USCGS: H=17 28 32, 20.8S, 178.8W, h= 655 km. Fiji Islands region. M= 4.5 SD 0.8 (CGS).
- 5 eZ Pn 21 58 07, eZ Sn 21 59 25, eZ Sg 22 00 04, D= 720 km.
- 6 eZ Pn 00 03 27, eZ Sn 00 04 43, D= 710 km. USCGS: H=00 01 53, 41.3N, 20.3E, h= 33 km. Albania. M= 4.4 SD 1.2 (CGS).
- 6 eZ P 04 54 10, USCGS: H= 04 41 08.6, 4.2S, 103.0E, h= 81km. Southern Sumatra. M= 5.4 SD 1.0 (CGS).

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- 6 eZ PKIKP 05 22 28, eZ PKHKP 05 22 36, iZ PKP2 05 22 49.6, D= 17000 km. Obscured by microseisms. USCGS: H=05 03 40.8, 21.3S, 178.8W, h= 559 km. Fiji Islands region. M=5.1 SD 0.9 (CGS).
- 7 eZ PKP 10 00 52, Obscured by microseisms. USCGS: H=09 41 14.1, 16.7S, 174.1W, h= 120 km. Tonga Islands. M=5.0 SD 1.1 (CGS).
- 7 eZ PM 18 05 07, eZ Sn 18 06 20, eZ Sg 18 07 10, D= 700 km. BCIS: H= 18 03 35 (DECM), 41.2N, 20.3E, Yugoslavia-Albania border region. M= 4.0 (Beograd). USCGS: H=18 03 36, 41.3N, 20.2E, h= 33km. Albania. M= 4.5 SD 1.5 (CGS).
- 8 Z Pn 07 10 00, eZ Sn 07 11 16, D=710 km.
- 9 iZ Pn 03 10 57.2, iZ Pg 03 11 11.1, iZNE Sn 03 11 40.5, iZ NE Sg 03 11 59.5, D= 400 km. BCIS: H=03 09 57 (DECM), 42 1/4N, 16 1/4E, depth possible superior at 100 km. Adriatic Sea. Felt in Italy in Bari and Matera Provinces. USCGS: H= 03 09 52, 42.0N, 16.5E, h= 33 km. Adriatic Sea. Felt in Bari and Matera Provinces. M=4.5 SD 1.4 (CGS).
- 9 iZ Pg 05 45 13.3, iZ Sg 05 45 21.4, D= 70 km. BCIS: H= 05 44 59 (DECM), 45.4N, 14.6E. Yugoslav coast of Adriatic Sea. Shocks felt in Rijeka.
- 9 iZ Pg 08 55 19.8, iZ Sg 08 55 23.9, D=70 km. BCIS: H= 08 55 00, 45.4N, 14.6E Yugoslav coast of Adriatic Sea. Shocks felt in Rijeka.
- 9 iZ Pg 09 18 43.3, iZ Sg 09 18 52.1, D= 70 km. BCIS: H= 09 18 35 (DECM), 45.6N, 14.5E, Yugoslavia, felt at Rijeka.
- 9 eZ 16 44 48, eZ 16 45 14, eZ (Sn) 16 45 51, traces.
- 10 eZ P 12 18 35, USCGS: H=12 06 50.3, 40.5N, 124.6W, h= 5 km. Near coast of northern California. Felt at Eureka, Arcata and Rio Dell. M= 5 1/4 - 5 1/2 (PAS), 5.5- 5.7 (BRK), 5 1/4- 5 1/2 (GOL), 5 3/4- 6 (PAL), 5.8 SD 1.0 (CGS).
- 10 iZ Pg 14 45 22.1, iZ Sg 14 45 28.1, D=70 km.
- 10 eZ 19 59 08, iZ (Sn) 19 59 46, traces.
- 10 eZ P 23 01 04, BCIS: H=22 51 20, 17.4N, 73.6E, India, near harrow of Koyna, Koyna Dam. Numerous victims and important damage in Koyna. MLH= 6.4 (Strasbourg, Collm), MLH= 6.3 (Pruhonice), M= 6 1/4 (Uppsala). USCGS: H=22 51 24.6, 17.7 N, 73.9E, h= 33 km. India. About 100 killed, 1300 injured, mayor damage at Koyna Nagar and felt in a wide area of south-western India. M=6 1/2 (PAS), 6.4- 6.6 (BRK), 6 1/4 - 6 1/2 (GOL), 6.0 SD 1.2 (CGS).
- 11 iZ Pn 02 37 10.5, eZ (Sn) 02 37 54, (D= 400 km.) Obscured by

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- (cont.) microseisms. BCIS: H= 02 36 16 (DECM), 46.7N, 9, Grisons (Switzerland), felt in Davos.
- 11 eZ PKP 20 00 51, obscured by microseisms. USCGS: H=19 40 53.3, 20.6E, 174.3W, h= 33km. Tonga Islands. M= 5.3 SD 0.6 (CGS).
- 11 eZ P 22 38 33, BCIS: H=22 30 13 (DECM), 13.6N, 51.5E, Gulf of Aden. MLH= 5.1 (Pruhonice). USCGS: H=22 30 18.3, 13.6N, 51.6E, h= 33 km. EASTern Gulf of Aden. M=5.6 SD 1.1 (CGS).
- 12 iZ Pg 04 13 15.0, iZ Sg 04 13 23.5, D= 70 km.
- 12 eZ PKIKP 08 26 05, iZ PKHKP 08 26 13.3, D= 16700 km. Obscured by microseisms. USCGS: H=08 06 16.7, 22.7S, 171.1E, h= 39 km. Loyalty Islands region. M=5.5 - 5.9 (BRK), 4.9 SD 1.2 (CGS).
- 12 eiZ Pn 20 05 59.2, eZ 20 07 32, obscured by microseisms.
- 13 iZNE Pg 10 42 32.9, iZNE! Sg 10 42 36.4, P 10 44 51, D= 30 km. BCIS: H=10 42 28, 45° 53', 14° 49'E, (Ljubljana), Upper Valley of Krka, Slovenija, Yugoslavia. Felt V (MCS) at Ivančna Gorica, IV at Grosuplje.
- 13 iZ+ P 10 50 18.6, USCGS: H=10 38 23.4, 47.6N, 152.6E, h= 124 km. Kurile Islands. M= 5.5 SD 0.9 (CGS).
- 13 eZ P 11 10 (10), USCGS: H= 10 58 21.6, 49.4N, 154.5E, h= 138 km. Kurile Islands. M= 5.1 SD 1.2 (CGS).
- 13 eZ PKP 19 26 48, iZ 19 26 56.6, iZ 19 27 02.6, USCGS: H= 19 07 14.4, 19.1S, 168.7E, h= 51 km. New Hebrides Islands. Felt at Port Vila. M= 5.4- 5.8 (BRK), M= 5.7 SD 1.0 (CGS).
- 13 eZ PKP 23 29 24, USCGS: H=23 09 37, 22.8S, 171.5E, h= 43 km. Loyalty Islands region. M=4.3 SD 1.7 (CGS).
- 13 iZ+ Pg 23 38 32.1, iZ Sg 23 38 35.6, D= 30 km. BCIS: H= 23 38 27, felt III (MCS) at Ivančna Gorica.
- 14 eiZ P 02 28 53.2, BCIS: H=02 20 20 (DECM), 14.0N, 54.0E, East of Gulf of Aden. M= 5.5 (Quetta), MLH= 4 3/4 - 5 (Strasbourg), 4.9 (Pruhonice). USCGS: H=02 20 27.9, 14.3N, 53.7 E, h= 33 km. Arabian Sea. M= 4.9 SD 1.1 (CGS).
- 15 iZ Pg 12 30 09.8, iZ Sg 12 30 13.0, D= 30 km. very weak.
- 15 eZ Pn 21 26 05, eZ Sn 21 27 20, D=700 km.
- 15 eZ 23 27 06, iZ Sg 23 27 16.8.
- 16 eZ Pn D1 58 25, iZ Sn 01 58 49.5, D= 120 km.
- 16 Z 08 03 00, eZ (Sn) 08 04 13, weak.

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- 16 eZ Pn 13 47 14, eZ Sn 13 47 30, D= 130 km. (Switzerland) (Switzerland)
- 16 eZ Pn 16 25 10, eZ Sn 16 26 26, D= 720 km.
- 16 eZ+ P 21 05 56, USCGS: H=20 53 58.3, 51.2N, 157.7E, h= 24 km. Near east coast of Kamchatka. Felt. M= 5.5 SD 1.0 (CGS).
- 17 eZ P 00 33 08, USCGS: H= 10 25 15.1, 36.5N, 71.4E, h= 82 km. Afghanistan - USSR border region. M= 5.2 SD 1.2 (CGS).
- 18 eZ PKP 06 44 06, USCGS: H=06 24 19.7, 22.4S, 170.8E, h= 34 km. Loyalty Islands region. M= 4.8 SD 1.6 (CGS).
- 19 eZ 06 14 18, eZ 06 14 20, traces.
- 19 eiZ Pn 08 34 02.8, iZ Pg 08 34 36.0, iZNE Sn 08 35 20.2, iZ Sb 08 35 39.1, ZNE Sg 08 35 (00). D= 720 km. USCGS: H= 08 32 30.9, 41.5N, 20.4E, h= 19 km. Albania. Felt at Debar, Yugoslavia. M= 4.8 SD 1.0 (CGS). BCIS: H=08 32 28 (D ECM), 41.3N, 20.3E, Yugoslavia.- Albania border region. MLH= 4.7 (Collm), M= 4.4 (Beograd).
- 20 eZ P 11 45 54, eZ pP 11 46 10, USCGS: H=11 34 25.9, 11.8N, 93.0E, h= 61 km. Andaman Islands region. M= 5.4 SD 1.2 (CGS).
- 20 Z PKP 17 27 (00), USCGS: H=17 07 49.1, 15.1S, 167.4E, h= 135 km. New Hebrides Islands. Felt at Luganville and Norsup, M= 5.1 SD 1.1 (CGS).
- 21 eZ Pn 00 11 09, eZNE Sn 00 12 22, D= 680 km. BCIS: H= 00 09 37 (DECM), 42.0N, 21.0E, Yugoslavia. M= 4.4 (Skopje). Felt on the region of Tetovo VI-VII (MCS), Gostivar, Prizren V, Skopje IV+V. USCGS: H= 00 09 39.0, 42.1N, 20.7E, h= 19 km. Yugoslavia, felt at Tetovo. M= 4.7 SD 1.1 (CGS).
- 21 eZ P 02 39 17, iZNE PP 02 43 20.9, eNE PS 02 52 33, D=11300 km. USCGS: H= 02 25 21.6, 21.8S, 70.0W, h= 33 km. Near coast of Northern Chile, 1 killed, 30 injured and mayor property damaged at Quillagua and Tocopilla. Felt in southern Bolivia and northern Chile. M= 7.0 (PAS), 7.0-7.3 (BRK), 7 1/2 (PAL), 7.0 (GOL), 6.3 SD 1.3 (CGS).
- 21 eZ P 11 49 45, USCGS: H=11 37 22.5, 17.0N, 72.1W, h= 33 km. Northern Colombia. M= 5.4 SD 0.8 (CGS).
- 21 eZ PKP 12 01 14, USCGS: H=11 42 25, 21.1S, 179.2W, h= 606 km. Fiji Islands region. M= 4.5 SD 0.7 (CGS).
- 21 eZ P 16 24 33, USCGS: H=16 12 30.7, 49.1N, 156.2E, h= 53 km. Kurile Islands. M= 4.8 SD 0.8 (CGS).
- 21 eZ P 23 54 43, USCGS: H=23 43 11.4, 11.8N, 93.1E, h= 33 km. Andaman Islands region. M= 5.0 SD 1.1 (CGS).
- 22 eZ Pn 07 23 33, eZ (Sn) 07 24 45, (D= 680 km).

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- 22 eZ 13 06 12, eZ Sn 13 06 36, BCIS: H= 13 05 00.9, 47°37'90" N, 11°08'718E, Explosion at Eschenlohe (Federal Germany), charge: 15 tons.
- 22 eZ PKP 23 28 57, eZ PKP2 23 29 38, D= 18000 km. USCGS: H= 23 08 58.0, 29.9S, 177.4W, h= 22 km. Kermadec Islands region. M= 5.5- 5.8 (BRK), 5.4 0.8 SD (CGS).
- 23 eZ 03 51 05, eZ 03 51 30, traces.
- 23 eZ (Pn) 09 53 37, eZ (PgPg) 09 54 42, eZ (Sn) 09 55 13, weak.
- 23 eiZ PKP 13 42 10, USCGS: H= 13 23 15.0, 5.2S, 151.8E, h= 61 km. New Britain region. Felt at Rabaul, Pomio and Ulanoma. M= 5.7- 6.1 (BRK), 5.5 SD 1.1 (CGS).
- 24 eZ- P 20 14 09, USCGS: H= 20 03 109, 17.4N, 61.1W, h= 24 km. Leeward Islands. M= 6 3/4 - 7 (PAS), 6.3-6.5 (BRK), 6 1/2 (GOL), 6.4 SD 1.0 (CGS).
- 24 eZ- P 21 43 29, USCGS: H=21 32 31.3, 17.4N, 61.3W, h= 20 km. Leeward Islands. M= 6 1/2 (PAS), 5.6- 6.0 (BRK), 5.9 SD 0.9 (CGS).
- 25 eZ PKP 01 42 30, iZ 01 42 47.9, eZ PS 01 54 26, D=14100 km. USCGS: H= 01 23 33.6, 5.3S, 153.7E, h= 64 km. New Ireland region. Felt in eastern New Britain. M= 6 3/4 - 7 (PAS), 6.8 - 7.2 (BRK), 7 1/4 (GOL).
- 25 eZ 03 44 46, eZ (Sg) 03 44 59, traces.
- 25 eZ PP 10 59 36, USCGS: H=10 41 31.6, 21.5S, 70.4W, h= 53 km. Near coast of northern Chile. Felt at Tocopilla and Arequipa. M= 6 3/4 (PAS), 5.8- 6.2 (BRK), 5 1/2 - 5 3/4 (GOL), 5.8 SD 1.2 (CGS).
- 27 eZ Pn 07 19 53 eZ Pg 07 20 29, eZ Sn 07 21 08, D= 710 km.
- 27 eZ P 09 31 27, eZ PP 09 35 32, D= 11100 km. USCGS: H=09 17 55.7, 21.2S, 68.3W, h= 135 km. Chile-Bolivia border region. Felt widely. M= 7 (PAS), 6.6- 7 (BKS), 6.4 SD 0.9 (CGS).
- 27 eZ Pn 09 49 20, eZ Sn 09 50 39, D= 700 km.
- 27 iZ 09 52 06.3, iZ 09 52 16.2, iZ (Sn) 09 52 40.0, obscured by microseisms.
- 27 eZ PKIP 16 42 41, iZ PKHP 16 42 47.3, iZ PKP2 16 42 08.5, D= 16000 km. USCGS: H= 16 22 48.5, 22.3S, 174.8W, h= 33 km. Tonga Islands region. M= 6 (PAS), 6.2 (BRK), 6.1 SD 1.8 (CGS).
- 28 eZ 08 29 56, Z 08 30 (00), eZ (Sn) 08 30 34, obscured by microseisms.
- 29 iZ+ Pn 19 50 55.0, iZ Pg 19 51 25.5, iZ Sn 19 52 08.7, iZ

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- (cont.) Sg 19 52 463, D= 710 km. BCIS: H= 19 49 23 (DECM), 41.4N, 20.3E, Yugoslavia-Albania border region. Felt VII (MCS) in epicentre, VI on the region of Debar, M= 4.4, h= 15 km. (Skopje). USCGS: H= 19 49 23.6, 41.5N, 20.4E, h= 39 km. Albania. Felt in Debar area. M= 4.7 SD 1.1 (CGS).
- 29 eZ PKP 20 49 24, iZ PKP 20 49 51.5, D= 16300 km. USCGS: H= 20 29 32.2, 22.8S, 175.3W, h= 30 km. Tonga Islands region. M= 5.4-5.8 (BRK), 5 1/2 (GOL), 5.3 SD 0.9 (CGS).
- 30 eZ Pn 00 45 40, eZ 00 46 45, weak.
- 30 iZNE! Pn 04 19 57.5, iZNE!! Sn 04 20 34.7, D= 320 km. BCIS: H= 04 19 19 (DECM), 44.8N, 12.0E, h= 30 - 40 km. Lower Po valley (Italy), felt IV-V (MCS) at Trieste. Strongly felt on the region of river Po delta and at Venice, Bologna, Forly, Cortina d'Ampezzo. M= 5 3/4 (Strasbourg), MLH= 5.3 (Pruhonice), 5.2 (Collm), M= 5 (Uppsala), MLH= 4.9 (Moxa), USCGS: H= 04 19 21.2, 44.7N, 12.2E, h= 33 km. Northern Italy. M= 5.3 SD 1.3 (CGS).
- 30 eZ Pn 12 20 31, eZ (Sn) 12 21 44, (D= 700 km).
- 30 eZ Pn 21 29 06, eZ Sn 21 30 33, D= 830 km. BCIS: H= 21 27 19 (DECM), 40.0N, 20 1/2E, Albania.
- 31 eZ Pg 11 00 59.5, iZ Sg 11 01 14.9, D= 124 km.
- 31 eZ Pn 20 04 15, eZ Sn 20 05 32, D= 720 km.

Ljubljana, January 13, 1969

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