

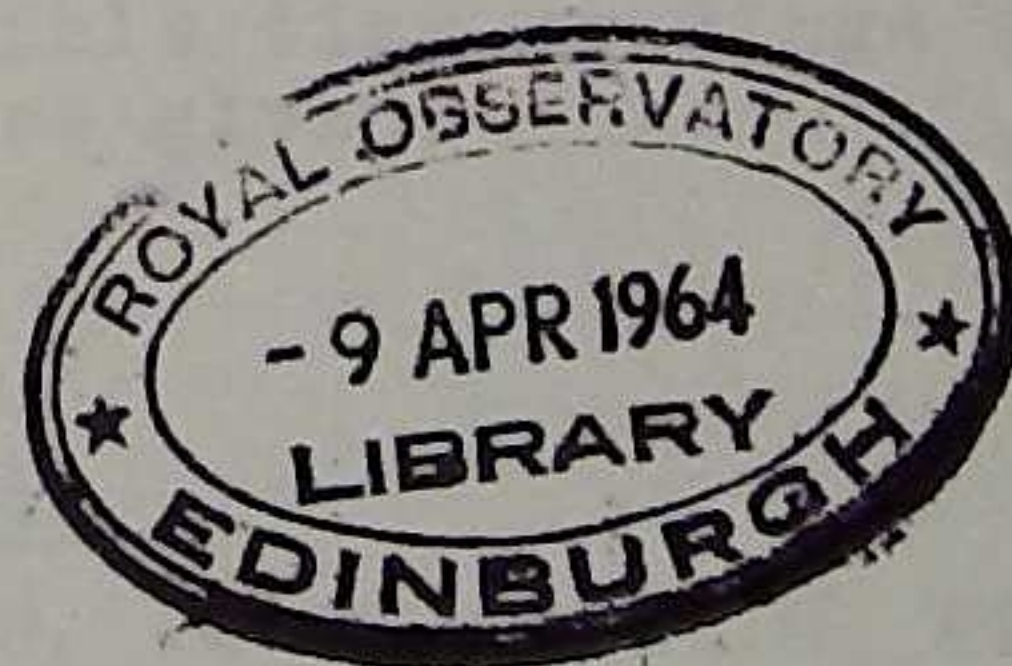
University of Ljubljana
Astronomical and Geophysical
Observatory

1962

Ljubljana,
Trg revolucije 11, P.O.B.20
Yugoslavia

P R E L I M I N A R Y S E I S M O L O G I C A L
B U L L E T I N

(April-June 1962)



University of Ljubljana
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Ljubljana, Trg revolucije 11
P.O.B. 20
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PRELIMINARY SEISMOLOGICAL BULLETIN

from April 1, to June 30, 1962

Station Ljubljana : 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: 396 m;

Lithologic foundation: sandstone (carbon);

Instruments:

Wiechert, horizontal astatic seismograph, $M= 200$ kg,
mechanical registration, 14-16 mm/min;

Constants (15.V.1962):

Component	T_0	$v:1$	r/T_0^2	V
N-S	4.9	2.7:1	0,015	71
E-W	4.9	2.8:1	0,017	65

Hiller-Stuttgart, vertical component Z with galvanometrical
recording; $T_0=1.5$ sec, $T_g=1.5$ sec, $D_1=D_2=1$,
 $V_{max}=10\ 150$ x, velocity of registration: 60 mm/min

Note: Periods of seismic waves are given in seconds, the
amplitudes in microns; sign + means compression
or movement towards north or east, sign - means
dilatation or movement towards south or west.
All times given are in G.M.T. Time signals are
received one or two times daily from Pontoise,
Potsdam or Moscow and are registered on a
chronograph. Wherever possible time readings up
to one tenth of a second are given.

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1 iZ P 00 52 13.7, iZ! 00 52 17.2, eZ 00 52 29.9, eZ PP

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- 1 (cont.) 00 53 35, eZ 00 54 16.2, USCGS: H= 00 45 14.6, 33.6 N, 59.0 E, h about 33 km, East Iran. Two killed and 3 injured at Tajkough and Mousavieh. D= about 4 000 km.
- 1 eiZ P 05 14 37.6, obscured by microseisms, USCGS: H= 05 01 56.0, 41.9 N, 143.4 E, h about 55 km, Near coast of Hokkaido, Japan.
- 1 eiZ - P 09 35 08.2, USCGS: H= 09 26 35.6, 81.5 N, 119.5 E, h about 25 km, North Pole region.
- 1 eiZ PKP 12 29 52.5, iZ 12 30 17.0, USCGS: H=12 11 09.2, 4.2 S, 143.6 E, h about 80 km, Near north coast of New Guinea. Felt.
- 1 eiZ+ PKP 15 56 34.6, iZ 15 56 35.9, iZ 15 56 40.1, USCGS: H= 15 37 02.5, 17.9 N, 167.2 E, h about 53 km, New Hebrides Islands.
- 1 eiZ P or PKP 16 03 13.0
- 2 (ei)Z Pn 11 40 37.6, eiZ Pg 11 40 55.2, iZ! 11 40 56.6, iZ X 11 41 13.4, iZ Sn 11 41 29.1, iZ Sg 11 41 50.7, iZ 11 42 07.7, D= about 470 km, disturbed by microseisms.
- 3 eiZ PKP 16 44 25.8, iZ 16 44 42.2, USCGS: H= 16 24 55.6, 10.6 S, 164.9 E, h about 36 km, Santa Cruz Islands region. Mag.= 5 1/2 (Pal).
- 3 eZ+ PKP₁ 18 57 25.7, iZ! PKP₂ 18 57 38.5, USCGS: H= 18 37 47.5, 20.8 S, 169.4 E, h about 40 km, Loyalty Islands, D= 16 420 km.
- 4 eiZ(P) 19 58 32.7, eiZ 19 59 31, obscured by microseisms, weak traces.
- 4 eiZ P 20 54 22.9, iZ 20 54 35.3, iZ 20 55 25.2, iZ 20 56 56.5, eiZ! S 20 57 14.3, USCGS: H= 20 51 05.2, 34.7 N, 25.5 E, h about 21 km, Crete. D= about 1 600 km.
- 4 (ei)Z P 21 02 56.3, iZ! 21 03 04.7, eZ! 21 04 21.1, eiZ! S 21 05 48.0, eiZ 21 07 06.3, eiZ LR 21 08 23.5, USCGS: H= 20 59 36.1, 34.6 N, 25.5 E, h about 25 km, Crete. D= 1 600 km.
- 4 eiZ Pn 22 40 07.4, iZ 22 40 10.8, iZ(Pg) 22 40 20.3, iZ Sn 22 40 49.7, Z 22 41 (00), iZ Sg 22 41 07.2, D= 400 km, weak, obscured by microseisms.
- 6 iZ Pg 15 30 (00) in minute interruption, iZ Sg 15 30 14.2, iZ SgSg 15 30 19.1, D= 115 km, weak.
- 6 eiZ Pn 18 49 35.7, iZ 18 49 49.6, iZ 18 50 30.5, iZ Sn 18 50 56.4, eZ 18 51 32, eiZ 18 52 07.8, D= about 770 km.
- 7 eiZ PKP 06 40 34.4, eiZ! 06 40 47.9, USCGS: H= 06 21 38.4, 10.0 N, 144.4 E, h about 50 km, Caroline Islands region, Mag.= 6 (Pas).
- 7 eiZ+ PKP 08 23 56.7, eiZ 08 24 10.1, (ei)Z 08 24 51.8, USCGS: H= 08 04 20.6, 18.7 S, 168.7 E, h about 23 km, New Hebrides Islands, Felt: Port Vila.

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- 7 eZ Pn 21 37 03.7, iZ Pb 21 37 14.6, iZ X₁ 21 37 36.6, iZ X₂ 21 37 52.3, iZ! 21 38 (00), iZ Sn 21 38 17.4, iZ 21 38 28.1, iZ! 21 38 36.8, iZ SgSgSg 21 39 11, iZ 21 39 54.3, USCGS: H= 21 35 28.1, 40.9 N, 20.3 E, h about 25 km, Albania. D= about 740 km.
- 7 eiZ P 22 22 37.4, iZ 22 23 02.1, traces, USCGS: H= 22 14 46.5, 36.6 N, 71.4 E, h about 105 km, Hindu Kush.
- 7 eiZ- P 23 15 12.7, iZ 23 15 29.4, eiZ 23 15 42.1, USCGS: H= 23 04 12.2, 15.0 N, 60.5 W, h about 77 km, Windward Islands.
- 8 eiZ Pn 18 01 04.8, iZ Sg 18 01 41.1, D= 255 km, weak.
- 9 iZ- P or PKP 08 57 31.9, eiZ 08 57 55.8, eZ 08 58 13.
- 10 eiZ Pn 00 24 16.4, iZ 00 24 43.6, eiZ Sn 00 25 54.0, eiZ 00 26 17.1, eiZ SgSgSg 00 26 57.4, eiZ M 00 27 10.3, D= 940 km.
- 10 iZ- Pn 21 39 23.9, eiNE! 21 39 28.5, iZ! 21 39 33.0!, iZ! 21 39 47.0, eiN 21 40 19.5, eiZ Sn 21 41 08, eNE Sn 21 41 14, cont.Z underexposed, NE M 21 43 -: Tne= 5 sec, eZ M 21 45 09. D= 1000 km. BCIS: H= 21 37 13, 38 1/4 N, 19 3/4 E, Mag.= 6 1/4-6 1/2 (Athens, Collmberg) Ionian Sea. USCGS: H= 21 37 12.6, 37.9 N, 20.1 E, h about 35 km, Ionian Sea. Mag.= 5-5 1/4 (Pal).
- 10 Z Pn 22 13 (00) in minute interruption, eiZ 22 13 12.0, eiZ Sn 22 14 43.6, D= 980 km, BCIS: H= 22 10 51, aftershock Ionian Sea. USCGS: H= 22 10 50.3, 38.1 N, 20.4 E, h about 25 km, Ionian Sea.
- 10 eiZ Pn 23 38 16.4, iZ 23 38 38.9, Z! Sn 23 40 (00) in minute interruption, eiZ 23 40 50.0, D= 1000 km, aftershock.
- 10 eiZ Pn 23 45 15.1, eiZ Sn 23 47 00.2, D= 1000 km, aftershock, weak, obscured by microseisms.
- 10 Z 23 54-55, traces, near.
- 11 (e)Z 00 14 50, traces.
- 11 Z 01 31-36, traces, near.
- 11 eiZ (Pn) 01 38 06.3, eZ Sn 01 39 59, eZ 01 41 29.5, D= 1000 km, aftershock.
- 11 Z 01 46-49 traces, near, disturbed by microseisms.
- 11 Z 02 58 -03 00, traces, obscured by microseisms.
- 11 (e)Z 03 46 42, eiZ 03 46 56.4;
- 11 eiZ 09 45 42.6, eiZ 09 45 54.4, eZ 09 47 17;
- 11 eiZ+ Pn 10 49 42.5, iZ! 10 49 49.2, iZ! 10 49 57.6, iZ 10 50 13.9, iZ Sn 10 51 20.9, iZ! 10 51 27.9, iZ! 10 51 40.4, eiZ SgSg 10 52 17.0, eiZ SgSgSg 10 52 25.0. D= 955 km, BCIS: H= 10 47 33, aftershock, USCGS: H= 10 47 34.0, 38.2 N, 20.0 E, h about 43 km, Ionian Sea.
- 11 (ei)Z Pn 22 47 27.4, eiZ 22 48 06.2, eiZ(Sn) 22 49 05.3

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- 11 (cont.) D= 960 km, aftershock.
- 11 iZ Pn 23 19 43.7, iZ Pg 23 19 50.5, iZ Sg 23 20 18.7, eiZ 23 20 32.6, D= 250 km, weak.
- 12 eiZ Pn 00 03 59.0, eiZ Sn 00 05 34.9, iZ 00 05 57.0, Z! 00 06 (00), eiZ SgSg 00 07 08, aftershock, Ionian Sea, USCGS: H= 00 01 45.4, 37.7 N, 20.0 E, h about 25 km, Ionian Sea.
- 12 eiZ Pn 00 45 42.1, eiZ 00 45 57.1, eiZ Sn 00 47 18.7, eiZ 00 47 35.1, aftershock, Ionian Sea.
- 12 eiZ+ Pn 01 05 11.0, iZ!NE 01 05 17.8, iZ! 01 05 39.3, iZ! 01 05 55.4, iZ! 01 07 30.7, eiZNE PP 01 08 35.7, iZ! 01 08 39.6, eiZ PPP 01 10 40.1, eZNE S 01 15 34, eNE L 01 35 - , eZNE M 01 46 00: Tz=17, Az=50, USCGS: H= 00 52 47.0, 38.2 N, 142.3 E, h about 68 km, Near east coast of Honshu, Japan, Mag.= 7-7 1/4 (Pas), 6 3/4-7 (Pal), D= 9 350 km.
- 12 eiZ Pn 03 31 31.7, eZ 03 32 45, eiZ 03 33 10.1, traces, near, Ionian Sea ?
- 12 eiZ Pn 08 57 51.9, eZ Sn 09 00 28.8, D= 960 km.
- 12 iZ Pg 12 46 24.8, iZ! Sg 12 46 39.9, iZ 12 46 44.6, D= 125 km, weak.
- 12 Z 13 40-43 traces.
- 12 (ei)Z Pn 15 26 28.5, eZ Sn 15 28 06.3, eZ! 15 28 27.7, aftershock, Ionian Sea.
- 12 eiZ Pn 19 44 15.2, iZ Sg 19 44 52.2, D= 260 km, weak.
- 12 Z 23 55-57 traces, weak.
- 13 eiZ+ P or PKP 09 30 10.6
- 13 Z 10 52-54 traces, eiZ 10 54 08.8, eZ 10 55 23 .
- 13 eiZ+ P 18 44 31.4, slight traces. USCGS: H= 18 35 58.3, 49.1 N, 87.2 E, h about 28 km, Kazakh SSR-China border.
- 13 eiZ Pn 22 10 38.0, eiZ Sn 22 12 18.4, eiZ! 22 12 37.8, eiZ! 22 14 05, D= 960 km.
- 14 (ei)Z 20 37 24.7, obscured by microseisms, iZ!(Sg) 20 37 40.0 .
- 15 April 15 from 03 15 to 08 22 no Z records.
- 15 Z 09 45-50 traces.
- 15 eiZ P 18 17 50.9, iZ! 18 17 56.8, eZ 18 18 16.5, USCGS: H= 18 08 27.3, 2.7 S, 11.6 W, h about 25 km, Ascension Island region.
- 15 eiZ P 18 54 41.0, eiZ! 18 54 43.5, iZ! 18 54 49.1, eZ 18 55 05.8, USCGS: H= 18 45 17.4, 2.9 S, 11.9 W, h about 25 km, Ascension Island region.
- 16 (e)Z Pn 00 17 32, eiZ Sn 00 19 04.5, eiZ! 00 19 24.8, iZ! 00 19 38.3, eiZ 00 19 57.6, eiZ SgSgSg 00 20 07.1, eiZ M 00 20 48.3, BCIS: H= 00 12 25, 39.1 N, 20.8 E, South of Albania. USCGS: H= 00 15 15.7, 38.2 N, 20.4 E,

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- 16 (cont.) h about 25 km, Ionian Sea, D= 925 km.
- 16 eiZ P or PKP 03 27 57.2, eiZ 03 28 02.5, iZ 03 28 24.1,
- 16 (i)Z Pg 04 43 26.2, iZ Sg 04 43 28.9, not felt.
- 16 eiZ 07 22 14.3, iZ!! 07 22 18.8, iZ 07 24 46.3, traces, USCGS: H= 07 18 50.0, 35.6 N, 25.8 E, Aegean Sea, h about 25 km.
- 16 Z 13 13-17 traces, weak.
- 16 eiZ+ P 13 32 55.9, iZ! 13 32 57.2, eZ 13 33 30.2, eZ PP 13 36 32.0, USCGS: H= 13 20 15.1, 30.6 N, 140.6 E, h about 176 km, South of Honshu, Japan. D= 9 950 km.
- 17 eiZ 07 14 42.6, traces.
- 17 iZ+ Pn 10 04 52.3, iZ! (Pg) 10 05 01.9, cont.Z under-exposed, eNE Sn 10 04 33, eE 10 05 45, iNE! 10 06 02, iZNE M 10 06 22, BCIS: H= 10 03 50, 42° 27' N, 17° 22' E, Adriatic Sea. USCGS: H= 10 03 46.9, 42.3 N, 17.3 E, h about 25 km, Adriatic Sea. D= 440 km.
- 17 eiZ Pn 11 17 38.9, eiZ 11 17 48.0, eiZ 11 18 21.7, eiZ (Sn) 11 19 18.6, iZ 11 19 41.5, D= 1050 km, USCGS: H= 11 15 17.1, 37.0 N, 18.5 E, h about 25 km, Ionian Sea.
- 17 eiZ Pn 11 36 04.0, iZ 11 36 12.7, eiZ 11 36 18.6, eiZ 11 36 48.1, eZ 11 37 14.7, eiZ Sn 11 37 46.6, iZ 11 38 (00). D= 1030 km. BCIS: H= 11 34.0, 39 N, 18 1/4 E, Ionian Sea. USCGS: H= 11 33 51.0, 37.8 N, 19.9 E, h about 25 km, Ionian Sea.
- 17 Z 13 28-31 traces.
- 17 Z 14 16.5 -20 traces.
- 17 eiZ - Pn 14 56 39.6, iZ 14 56 49.5, eiZ 14 58 16.7, eZ! (Sn) 14 58 36.8, eZ 14 59 05, USCGS: H= 14 54 35.3, 38.7 N, 21.6 E, h about 25 km, Near (east) coast of Greece.
- 17 eiZ+ P 21 06 34.8, eZ 21 07 35, USCGS: H= 20 54 13.4, 38.4 N, 142.2 E, h about 110 km, Near east coast of Honshu, Japan.
- 17 eiZ+ P 22 44 20.9, iZ! 22 44 24.7, iZ! 22 44 32.9, eZ PP 22 46 18.0, eZ PPP 22 47 15, D= 5 950 km, USCGS: H= 22 34 56.7, 1.5 S, 14.9 W, h about 25 km, Mid Atlantic Ocean.
- 18 Z 09 19-22 traces.
- 18 eiZ Pn 10 46 51.3, eiZ 10 47 08.2, eiZ Sn 10 48 32.5, iZ 10 48 50.0, eiZ 10 49 40.2, eiZ 10 49 56.9, eZ M 10 50 10, USCGS: H= 10 44 41.3, 38.1 N, 20.5 E, h about 25 km, Ionian Sea, D= about 1000 km.
- 18 eZ P 19 28 18.2, iZ 19 28 34.2, eiZ 19 31 52.7, eiZ! 19 32 34.1, USCGS: H= 19 14 37.2, 10.0 S, 79.0 W, h about 39 km, Off coast of Peru, felt Casma, Peru, Mag.= 6 3/4 (Pas).

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- 18 iZ- Pg 22 35 28.8, iZ! Sg 22 35 30.5, iZ SgSg 22 35 32.7, D= 10 km, weak, not felt.
- 19 Z 00 31-32 traces.
- 19 iZ+ Pn 02 08 06.1, eiZ 02 08 10.1, iZ 02 08 28.9, iZ 02 08 48.5, eiZ 02 09 31.3, eiZ 02 09 39.6, eiZ Sn 02 09 46.5, iZ 02 10 06.8, eiZ 02 10 44.3, eZ 02 11 21, USCGS: H= 02 05 59.4, 38.5 N, 20.5 E, h about 25 km, Ionian Sea., D= about 980 km.
- 19 eiZ Pn 03 19 34.4, iZ 03 19 44.8, eiZ! 03 20 08.3, eZ Sn 03 21 10, iZ! 03 21 32.4, eiZ 03 22 21.9, D= 980 km.
- 19 eiZ P 12 00 32.9, eiZ PP 12 01 19.9, USCGS: H= 11 55 27.3, 38.6 N, 44.0 E, h about 25 km, Eastern Turkey.
- 19 eiZ PKP 22 34 26.7, eiZ 22 34 36.3, eiZ PP 22 37 51.2, USCGS: H= 22 15 20.9, 15.8 S, 168.0 E, h about 213 km, New Hebrides Islands. Felt: Santo. D= 15 900 km.
- 19 eiZ+ P 23 25 56.1, eZ! 23 25 56.7, eiZ 23 26 08.2, iZ! 23 26 18.7, eiZ PP 23 28 11.9, USCGS: H= 23 16 04.1, 69.8 N, 138.6 E, h about 0 km, Siberia. D= 6 500 km.
- 19 (ei)Z 23 49 26.2, eiZ 23 49 52.1, weak traces.
- 20 iZ+ P 05 59 27.0, eiZ! 05 59 33.4, iZ 05 59 36.3, iZ 06 00 55.8, eZ PP 06 02 19 eZ S 06 08 50, eZ! 06 09 15.5, eZ 06 09 46, USCGS: H= 05 47 55.3, 20.6 N, 72.2 W, h about 25 km, Near north coast of Haiti, minor damage at Port au Prince. Felt: San Juan, Puerto Rico. Mag.= 6 1/2-6 3/4 (Pas), 6 3/4-7 (Berk). D= 8100 km.
- 20 eiZ P or PKP 06 26 47.8, iZ! 06 27 09.0.
- 20 eiZ 13 40 05.7, traces, weak.
- 21 (ei)Z P or PKP 00 00 04.9, eiZ 00 00 14.9.
- 21 Z 06 13-15, traces, weak.
- 22 eiZ PKP 02 29 21.0, iZ 02 29 23.4, eiZ 02 30 25.1, USCGS: H= 02 10 12.1, 18.9 S, 169.5 E, h about 288 km, New Hebrides Islands region.
- 22 eZ P 04 58 17.9, eiZ 04 59 07.0, USCGS: H= 04 45 20.3, 15.5 N, 93.1 W, h about 69 km, Near coast of Chiapas, Mexico, Mag.= 5 1/4-5 1/2 (Pal).
- 22 iZ+ P 19 27 38.9, eiZ pP 19 28 22.4, USCGS: H= 19 15 29.7, 32.3 N, 130.3 E, h about 185 km, Near west coast of Kyushu, Japan. D= 9300 km.
- 23 iZ+ P 06 10 19.8, iZ! NE 06 10 23.7, iZ! 06 10 55.2, eiZ PP 06 13 30, eZ S 06 20 25, eNE S 06 20 27, eiZNE SP 06 21 07.2, iZNE LR 06 39 40, iZNE M 06 51 20: Tz= 12, Az=15, USCGS: H= 05 58 04.9, 42.9 N, 143.4 E, h about 25 km, Hokkaido, Japan. Mag.= 7-7 1/4 (Pas), 7 (Pal) D= about 9000 km.
- 23 eiZ (Pn) 07 25 12.0, Z (Sg) 07 26 (00), (D=about 270 km) weak.
- 23 eiZ- P 19 58 25.7, eiZ 19 58 47.9, eiZ 19 58 57.3, near?

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- 24 Z 07 48-52, traces, very weak, near.
- 24 eiZ P 16 19 14.3, traces. USCGS: H= 16 06 23.7, 2.2 S, 76.1 W, h about 175 km, Ecuador-Peru border.
- 25 eiZ 01 29 48.4, traces, weak.
- 25 eiZ P 03 40 46.4, eZ 03 41 10, very weak. USCGS: H= 03 28 56.1, 54.0 N, 160.3 E, h about 29 km, Kamchatka.
- 25 iZ Pn 04 46 25.6, iZ! 04 46 29.8, iZ Pb 04 46 38.6, iZ 04 46 56.1, iZ (X) 04 47 09.5, iZ Sn 04 47 38.8, iZ! 04 47 44.1, iZ Sb 04 48 03.0, iZ! 04 48 08.5, eiZ Sg 04 48 19.2, iZ!! 04 48 25.0, iZ! 04 49 14.3, BCIS: H= 04 44 48, 45°03' N, 5° 30' E, Felt largely in southeastern France and till the Switzerland. Damage in Grenoble region. Epicentral intensity: 8-9° MCS, USCGS: H= 04 44 51.3, 45.3 N, 5.2 E, h about 30 km, Southeastern France. D= about 720 km.
- 25 eiZ Pn 06 24 37.8, iZ! 06 24 54.9, iZ 06 25 15.8, iZ 06 25 42.0, iZ 06 26 17.3, iZ Sn 06 26 20.7, eiZ 06 26 36.8, iZ! 06 26 45.9, eiZ SgSg 06 27 30.7, eiZ 06 27 42, iZ M 06 28 20. USCGS: H= 06 22 28.0, 38.1 N, 20.6 E, h about 25 km, Ionian Sea.
- 25 Z 09 53-56 traces, weak.
- 25 iZ+ P 15 59 54.6, iZ 16 01 14.1, (e)Z PP 16 03 (00), eZ 16 03 13. USCGS: H= 15 47 29.4, 38.4 N, 142.5 E, h about 56 km, Honshu, Japan. D= 9200 km.
- 25 eiZ+ P or PKP 18 43 53.2, traces.
- 25 eiZ Pg 21 42 12.6 (very weak), eiZ (Sn) 21 43 15.1, eZ Sg 21 43 41.4, BCIS: H= 21 40 32, 46.2 N, 7.5 E, Valais (Switzerland). Chur: felt in the epicentral region. D= 550 km.
- 26 (ei)Z 03 09 28.3, eiZ Sg 03 10 15.5.
- 26 iZ Pn 06 36 03.9, eiZ Sg 06 36 44.7, D= about 280 km, weak.
- 26 eiZ PKP₁ 07 45 08.4, iZ!! PKP₂ 07 45 13.6!, iZ! 07 45 17.2, iZ 07 45 24.4, eiZ! 07 47 26.2. USCGS: H= 07 26 31.3, 17.8 S, 179.1 W, h about 689 km, Fiji Islands.
- 26 eiZ 11 29 44.0, eZ 11 30 05.
- 26 eiZ Pn 13 09 43.7, iZ Pg 13 09 55.4, eiZ Sn 13 10 23.9, iZ Sg 13 10 41.3, iZ! 13 10 52.1, iZ 13 11 14.7, D= 375 km.
- 26 eiZ 16 59 43.8, eiZ 16 59 51.5, traces, weak.
- 26 eZ P or PKP 18 18 27.5, traces.
- 27 eiZ Pn 04 19 17.6, iZ Pg 04 19 45.1, iZ (Sb) 04 20 47.2, eiZ Sg 04 21 07.2, iZ! 04 21 20.6, BCIS: H= 04 17 43, 45°N, 5 1/2° E, Vercors, France. Aftershock from April 25, 04^h44^m. D= 720 km.
- 27 eiZ PKP 06 49 15.2, iZ 06 49 24.5, (e)Z 06 51 33, eiZ PP 06 53 13.6, USCGS: H= 06 30 24.9, 23.1 S, 179.2 E,

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- 27 (cont.) h about 576 km, Fiji Islands region. D= 17 200 km.
- 28 eiZ Pn 11 22 09.5, iZ!NE 11 22 19.2, eiZ Sn 11 24 46, eiZNE SgSgSg 11 26 38.3, eiZ M₁ 11 26 52.5, iZ M₂ 11 28 26, ei!NE M 11 28 47, USCGS: H= 11 18 57.4, 36.4 N, 26.6 E, h about 40 km, Dodecannese Islands. BCIS: H= 11 18 53, 36.1 N, 27.0 E, North of Karpathos Islands, Aegean Sea. Mag.= 5 3/4 (Praha), D= 1550 km.
- 28 eZ Pn 12 46 58.9, eiZ 12 47 08.9, iZ! 12 48 32.4, eiZ (Sn) 12 49 35.4, Z 12 50 (00), eNE 12 50 46, eZ SgSgSg 12 51 32. USCGS: H= 12 43 49.1, 36.3 N, 26.7 E, h about 48 km, Dodecannese Islands. BCIS: H= 12 43 44, aftershock, Mag.= 5 3/4 (Praha), D= 1550 km.
- 28 eiZ Pn 20 58 28.8, eiZ 21 00 33.7, eiZ (Sn) 21 01 14.5, weak, D= about 1550 km.
- 29 eiZ Pn 09 27 47.7, eiZ 09 28 36.2, iZ 09 29 23.5, eiZ Sn 09 30 17.6, Z! 09 31 (00), D= about 1550 km, weak.
- 29 eiZ Pn 16 58 53.8, eiZ Pg 16 58 55.2, iZ X 16 59 00.0, eiZ Sn 16 59 15.5, iZ! Sg 16 59 19.9, D= 190 km, weak.
- 29 eZ (Pn) 18 03 28, eiZ 18 04 38.2, Z 18 05 (00), eZ 18 05 15, eiZ ! 18 06 59.1.
- 30 iZ+ P 02 38 48.1, iZ! 02 38 55.9, eiZ! 02 39 15.1, eiZ PP 02 42 02, eZ PPP 02 43 50. USCGS: H= 02 26 30.0, 38.8 N, 140.9 E, h about 104 km, Honshu, Japan. D= about 9150 km.

Measurements from April 30 to May 2 will be published in next seismological bulletin.

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- 2 Z P 09 10 (00), eZ 09 10 34.3, USCGS: H= 08 56 29.0, 23.6 S, 65.9 W, h about 163 km, Jujuy Province, Argentina.
- 2 eiZ P or PKP 09 26 14.2, eZ 09 26 37.2.
- 2 Z 16 15-16, traces.
- 2 iZ Pn 17 51 17.1, iZ Sg 17 51 39.3, iZ (SgSg) 17 51 45.0, D= about 170 km, weak.
- 3 eiZ PP 03 54 23.4, traces. USCGS: H= 03 34 49.0, 60.0 S, 32.9 W, h about 20 km, Sandwich Islands region. Mag.= 5 3/4-6 (Pal).
- 3 eiZ P or PKP 14 14 31.5, eiZ 14 14 49.9.
- 3 eiZ P or PKP 15 01 45.4.
- 3 eiZ P or PKP 18 03 49.5, iZ 18 04 05.4.
- 3 eiZ P 23 30 54.4, Z! 23 31 (00), eiZ 23 31 22.7, BCIS: H= 23 27 26, 43.6 N, 5.3 W, Asturian Coast, Spain.
- 4 iZ Pg 15 04 49.4, iZ Sg 15 04 54.4, iZ! SgSg 15 04 58.7, D= 35 km, no macroseismic report.



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- 5 eZ P 11 24 25, eiZ 11 24 33.2, USCGS: H= 11 11 51.4, 34.2 N, 139.2 E, h about 73 km, Near south coast of Honshu, Japan.
- 5 eiZ 18 17 37.7, iZ 18 17 58.7, traces, weak.
- 5 eZ Pn 22 30 34, eiZ (Sn) 22 32 15.1, iZ 22 32 27.6, eiZ M 22 33 43.9. (D= about 965 km).
- 6 eZ Pn 03 56 34.5, iZ Sg 03 57 29.6, iZ! 03 57 35.5, D= 370 km.
- 6 eZ (Pn) 04 04 06, eZ 04 05 56, eiZ 04 06 29.2.
- 6 eiZ Pn 06 44 13.0, iZ 06 44 57.4, eiZ (Sn) 06 45 49.8, eiZ 06 46 29.7, D= about 890 km, weak.
- 6 Z 17 14-15 traces.
- 6 Z (P) 19 15 (00), eiZ 19 18 48.6, eiZ PP 19 19 38.7, eZ PPP 19 22 10, USCGS: H= 19 00 10.2, 60.0 S, 32.8 W, h about 25 km, Sandwich Islands region. Mag.= 7 (Pas), 6 3/4 - 7 (Berk), 7 (Pal), D= 12 500 km.
- 6 (e)Z Pn 21 42 21, eiZ 21 42 46.8, iZ 21 43 11.7, eZ (Sn) 21 44 10.3, iZ 21 44 24.0, iZ 21 45 (00), eiZ! 21 45 45.2, (D= about 1070 km).
- 6 Z 22 30-32, traces.
- 6 eiZ Pn 23 18 58.5, iZ 23 19 07.7, iZ Sg 23 19 56.9, D= 390 km.
- 6 eiZ Pn 23 38 36.3, eiZ (Sn) 23 40 08.9, eiZ! 23 40 38.0, D= 890 km.
- 6 eiZ Pn 23 59 10.8, eiZ 23 59 16.6, eZ Sn 23 59 45.7, iZ Sg 00 00 05.7, eiZ 00 00 18.6. D= about 370 km, weak.
- 7 eiZ 08 45 17.9, eiZ 08 45 24.2, eiZ 08 45 36.9.
- 7 eiZ+ P 17 51 59.1, iZ! 17 52 07.7, eiZ 17 52 28.7, eZ PP 17 54 56, Z PPP 17 57 (00), eN 18 25 - , eiZ!NE M 18 34 - : Tz=12, Az= 12, USCGS: H= 17 39 50.3, 45.3 N, 146.7 E, h about 25 km, Kurile Islands. Mag.= 6 3/4 (Pas), 7 (Berk), 6-6 1/4 (Pal). D= about 8 850 km.
- 8 eZ Pn 03 50 06, eiZ 03 50 45.5, eZ (Sn) 03 51 39.3, Z 03 52 (00), eZ 03 52 56.5, D= 910 km, approx.
- 8 Z 07 49-52 traces.
- 8 eiZ P or PKP 08 16 34.2, eiZ 08 16 42.0.
- 8 (ei)Z Pn 09 05 07.7, iZ(Sg) 09 06 04.5, (D= about 380 km).
- 8 (ei)Z Pn 09 08 37.3, eiZ! 09 09 51.5.
- 8 eiZ Pn 16 37 12.9, USCGS: 43.8 N, 144.4 E, h about 106 km, Off east coast of Honshu, Japan.
- 8 eiZ P or PKP 17 01 34.7, eiZ 17 01 42.8,
- 8 eiZ PKP 18 29 04.8, USCGS: H= 18 10 01.2, 17.8 S,

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- 8 (cont.) 177.3 W, h about 451 km, Fiji Islands.
- 8 eiZ Pn 23 56 54.5, eiZ Sn 23 59 16.2, eZ 23 59 27, eZ SgSg 00 00 42.3, eZ SgSgSg 00 00 49, eZ! 00 01 13, eZ! 00 01 58, BCIS: H= 23 53 40, 34.8 N, 24.0 E, South of Crete, Gavdos Islands region. USCGS: H= 23 54 01.7, 35.9 N, 24.4 E, h about 93 km, Sea of Crete. D= about 1400 km.
- 9 Z P 11 31 (00) traces. USCGS: H= 11 19 01.6, 46.1 N, 152.9 E, h about 56 km, Kurile Islands.
- 9 eZ 11 49 34.
- 9 eZ P or PKP 12 20 09.7, traces.
- 9 eiZ Pn 13 20 57.9, eZ Sg 13 21 59.2, D= about 400 km.
- 9 eZ 13 33 37.
- 9 iZ Pn 16 14 28.5, iZ Sg 16 15 08.5, D= 285 km.
- 9 eZ 18 32 43.
- 9 (e)Z (P) 19 46 43, eZ 19 49 19.8,
May 9 from 22^h to May 10 04^h 50^m GMT no Z records.
- 10 eiZ Pn 18 32 17.9, iZ 18 32 23.7, iZ (Pg) 18 32 35.6, iZ PgPg 18 32 38, iZ Sn 18 33 20.0, iZ 18 33 44.1, iZNE Sg 18 33 47.5, iZNE M 18 37 17, BCIS: H= 18 30 56, 42.1 N, 19.2 E, Yugoslavia, south of Scutari Lake. Beograd: Felt IV^o MCS at Titograd. USCGS: H= 18 30 58.1, 42.1 N, 19.2 E, h about 25 km, Yugoslavia-Albania border. Felt: Titograd, Yugoslavia. D= 580 km.
- 11 iZ Pn 01 06 17.6, eiZ (Pb) 01 06 22.7, iZ Pg 01 06 30.3, iZ PgPg 01 06 32.2, iZNE Sn 01 06 55.9, iZ! NE Sg 01 07 10.1. BCIS: H= 01 05 30.0, 44° 02'N, 11° 20'E, Toscan Appenines, 30 km from Firenze (Italy). USCGS: H= 01 05 31.6, 44.4 N, 11.1 E, h about 25 km, Italy. D= 365 km.
- 11 (e)Z P 14 25 08, iZ 14 25 15.2, eiZ PP 14 29 (00), eZ L 15 04 - : Tz= 21, Az= 40, eNE M 15 09 - ; USCGS: H= 14 11 51.9, 17.0 N, 99.7 W, h about 25 km, Near coast of Mexico. 4 dead, many injured and extensive property damage in south center of Mexico. Seismic sea-wave with maximum amplitude 2 1/2 feet reported at Acapulco. Mag= 7 (Pas), 7-7 1/4 (Berk). D= about 10 250 km. Mag.= 6.9 (St.)
- 11 eiZ P 20 13 03.1, eiZ 20 13 08.4, traces. USCGS: H= 20 01 06.9, 27.5 S, 13.7 W, h about 25 km, South Atlantic Ocean.
- 12 Z 09 44-46, traces, obscured by microseisms.
- 12 eZ PKP 20 54 24, iZ! 20 54 30.0, USCGS: H= 20 35 45.1, 17.7 S, 178.2 W, h about 600 km, Fiji Islands.
- 12 eiZ PKP 22 22 22.6, iZ! 22 22 29.1, USCGS: H= 22 03 40.7, 18.0 S, 178.0 W, h about 603 km, Fiji Islands.
- 15 eiZ 05 42 25, iZ PP 05 42 55.1, iZ 05 43 08.1, USCGS:



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- 15 (cont.) H= 05 23 45.9, 7.3 S, 128.3 E, h about 34 km. Banda Sea. Mag.= 7-7 1/4 (Pas), 7 1/2 (Berk), obscured by strong microseisms.
- 15 (e)Z Pn 08 34 21, eiZ 08 34 29.4, eiZ SgSg 08 36 48.6, eZ (Q) 08 37 07, BCIS: H= 08 31 45, 39.7 N, 24.7 E, Aegean Sea. Lemnos Island region. D= 1050 km.
- 15 eiZ P 19 44 12.3, eiZ 19 44 33.5, USCGS: H= 19 32 22.5, 53.4 N, 159.6 E, h about 30 km, Near east coast of Kamchatka.
- 16 eZ PKP 05 36 08.3, traces. USCGS: H= 05 16 46.0, 13.6 S, 167.3 E, h about 52 km, New Hebrides Islands.
- 16 eZ Sg 10 52 09.6, traces.
- 16 eiZ PKP 14 54 17.3, eZ 14 54 33.6, eiZ PP 14 54 47.2, USCGS: H= 14 35 29.6, 7.3 S, 128.1 E, h about 34 km, Banda Sea. D= 12 350 km.
- 16 iZ+ Pg 16 52 35.1, iZ Sg 16 52 38.5, iZ 16 52 41.7, D= 22 km. Explosion?
- 16 eiZ PKP 17 52 31.9, eZ 17 53 35, USCGS: H= 17 33 05.5, 13.4 S, 167.3 E, h about 35 km, New Hebrides Islands.
- 16 eZ (Pn) 19 27 47, eZ 19 29 21.8, eZ 19 32 21, traces.
- 17 eZ PKP₁ 02 39 51.4, eiZ PKP₂ 02 40 47.0, iZ 02 40 50.8, USCGS: H= 02 19 57.8, 41.9 S, 171.5 E, h about 41 km, Near coast of South Island, New Zealand. Felt.
- 17 eiZ+ P 12 11 46.5, eiZ 12 11 51.7, USCGS: H= 12 00 29.6, 6.2 S, 68.3 E, h about 25 km, Chagos Archipelago region.
- 18 eiZ+ PKP₁ 23 38 37.0, eiZ PKP₂ 23 38 55.4, USCGS: H= 23 18 46.9, 16.0 S, 173.0 W, h about 25 km, Tonga Islands region.
- 19 eiZ Pn 07 17 45.8, iZ Pg 07 17 55.8, Z 07 18 (00), iZ 07 18 19.3, iZ 07 18 21.0, iZ Sn 07 18 23.0, iZ Sg 07 18 36.7, iZ! 07 18 45.7, D= 350 km, weak.
- 19 eiZ+ P 15 11 28.7, iZ! NE 15 11 34.6, eiZ! 15 11 59.1, eiZ 15 14 44.7, eZ! NE PP 15 15 12, eZ PPP 15 17 24, USCGS: H= 14 58 13.3, 17.2 N, 99.5 W, h about 20 km, Near coast of Mexico. 3 dead, 16 injured and extensive property damage in south central Mexico. Mag.= 7-7 1/4 (Pas). D= 10 300 km.
- 19 eiZ Pn 20 50 59.7, eiZ 20 51 19.0, eiZ Sn 20 52 39.3, iZ 20 53 05.2, eiZ! 20 53 17.7, eZ SgSgSg 20 53 49, USCGS: H= 20 48 32.1, 38.2 N, 22.4 E, h about 25 km, Greece. D= about 1050 km.
- 19 eiZ P 20 58 07.2, USCGS: H= 20 50 09.0, 39.5 N, 73.9 E, h about 45 km, Sinkiang Province, China.
- 21 iZ+ P 12 12 52.2, iZ! NE 12 12 54.2, iZ! 12 13 02.0!, ZNE 12 14 (00), iZ! PP 12 15 09.9, eNE PP 12 15 11, eiZ! PPP 12 16 30.9, iZ! NE S 12 21 07.5, eZ! M 12 39 40: Tz=11, Az=50, USCGS: H= 12 02 50.6, 37.3 N, 96.0 E,

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- 21 (cont.) h about 25 km, Chinghai Province, China. Mag. = 7-7 1/4 (Pas), 6 1/2-6 3/4 (Pal), 7.2 (Strasbg.) D= appr. 6 600 km.
- 21 eiZ+ P 12 46 19.9, eiZ 12 46 25.1, USCGS: H= 12 36 19.7, 37.0 N, 95.9 E, h about 25 km, Chinghai Province, China.
- 21 eiZ+ P 13 25 41.3, eiZ 13 25 50.1, eZ 13 26 12.4, USCGS: H= 13 15 39.4, 37.0 N, 95.7 E, h about 25 km, Chinghai Province, China.
- 21 Z 16 00-01 traces.
- 21 eiZ P or PKP 21 31 04.5.
- 21 eiZ PKP₁ 21 34 37.8, iZ! 21 34 43.4!, iZ! PKP₂ 21 34 45.6, iZ! 21 35 07.3, iZpPKP₁ 21 36 15.1, iZ!pPKP₂ 21 36 29.2, eiZ PP 21 38 32.0, Z! 21 40 (00), eZ PPP 21 41 44.7, iZ! 21 42 (00)!, eZ (SPP) 21 50 23, USCGS: H= 21 15 31.0, 20.0 S, 177.5 W, Fiji Islands region. h about 379 km. Mag. = 6 3/4- 7 (Pas), D= 16 730 km.
- 22 eiZ PKP 00 39 49.3, eiZ 00 40 20.2, USCGS: H= 00 20 02.4, 16.8 S, 174.3 W, h about 52 km, Tonga Islands.
- 22 (ei)Z PKP₁ 08 25 39.5, iZ PKP₂ 08 25 50.9, eiZ pPKP 08 26 23.5, iZ 08 26 28.6, iZ 08 26 39.4, eiZ 08 27 25.4, eiZ! PP 08 28 43.7!, eiZ! pPP 08 29 17.9, eiZ PPP 08 31 44.3, USCGS: H= 08 06 38.7, 12.3 S, 166.6 E, h about 151 km, Santa Cruz Islands. Mag. = 6 1/2- 6 3/4 (Pas), 5 3/4-6 (Pal), D= 15 200 km approx.
- 22 eiZ Pn 11 21 19.1, eiZ 11 21 59.3, eiZ (Sg) 11 22 03.9, (D= about 300 km).
- 22 eiZ Pg 13 10 29.4, eiZ 13 10 32.5, iZ X 13 10 39.9, iZ Sg 13 10 45.3, iZ 13 10 50.3, D= 130 km, weak.
- 22 eiZ PKP 22 22 29.7, eiZ 22 22 45.4, eiZ 22 23 51.7, Z! 22 24 (00). USCGS: H= 22 03 36.0, 5.5 S, 152.0 E, h about 100 km, New Britain. Felt: Palmalmal. Weak.
- 23 eiZ P 01 52 11.2, iZ 01 52 16.2, traces. USCGS: H= 01 42 12.2, 37.1 N, 96.0 E, h about 50 km, Chinghai Province, China.
- 24 eiZ PKP 07 31 55.2, traces, USCGS: H= 07 11 59.5, 18.7 S, 173.2 W, h about 25 km, Tonga Islands.
- 24 eZ P or PKP 08 36 13.5, traces.
- 24 iZ Pn 23 07 40.5, iZ! Pg 23 07 45.9, iZ PgPg 23 07 50.0, iZ Sg 23 08 15.3, D= 245 km.
- 25 eZ P 00 55 07, eiZ 00 55 40.1, eZ 00 58 09, USCGS: H= 00 48 57.1, 58.6 N, 31.5 W, h about 25 km, South of Greenland.
- 25 eiZ PKP 04 39 19.3, eZ 04 39 28.8, eiZ 04 39 51.7, USCGS: H= 04 19 57.0, 20.7 S, 174.3 W, h about 281 km, Tonga Islands.
- 26 iZ PKP 02 31 53.4, eiZ 02 32 05.2, obscured by microseisms, USCGS: H= 02 13 04.8, 19.7 S, 178.0 W, h about 600 km, Fiji Islands.



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- 26 eiZ+ P 19 56 14.7, iZ 19 56 19.5, USCGS: H= 19 44 17.5, 6.7 N, 94.6 E, h about 60 km, Nicobar Islands.
- 27 eiZ Pn 15 58 39.1, iZ Sg 15 59 28.4, D= 330 km, weak.
- 27 (ei)Z Pn 20 21 43, iZ Sg 20 22 33.0, D= 330 km, weak.
- 28 eiZ P or PKP 11 55 07.4, eiZ! 11 55 15.7 .
- 28 eZ 21 52 27.5, eZ 21 53 13, traces. Premonitory earthquake, Aegean Sea, H= 21 47 20.
- 28 eiZ Pn 23 00 03.0, eiZ 23 00 10.4, eZ Sn 23 02 13.7, eZ (SgSg) 23 02 49.2, BCIS: H= 22 57 41, 39 1/2 N, 24 3/4 E, Aegean Sea, SE from Lemnos Island. D= 1170 km, weak.
- 29 eZ 01 30 06, eiZ 01 30 47.1, traces. Aegean Sea, H= 01 25 08.
- 29 (e)Z 07 35 (30), eiZ 07 35 51.2, eiZ 07 36 32.0, eZ! 07 37 09.8.
- 29 eiZ 17 15 56.5, eiZ! 17 16 17.0.
- 29 eiZ (Pg) 19 00 10.8, iZ! Sg 19 00 25.4, (D=115 km).
- 29 eiZ 23 43 30.5, eiZ! 23 43 49.2, traces.
- 29 eZ Pn 23 46 26.7, eiZ 23 46 52.0, eZ (PgPgPg) 23 47 17.0, eiZ! Sn 23 48 06.3, iZ! 23 48 23.2, eiZ! 23 49 50.2. USCGS: H= 23 44 16.1, 38.1 N, 20.9 E, h about 25 km, Ionian Sea. D= 1020 km.
- 30 eZ- P 10 11 20.1, iZ! 10 11 27.4, eZ PP 10 13 08, USCGS: H= 10 02 52.2, 30.3 N, 42.4 W, h about 25 km, North Atlantic Ocean. Mag. = 5 (Pal), D= 5200 km.
- 31 eZ+ P 06 41 30.7, iZ 06 41 32.9, eiZ! PP 06 45 42.3, eZ 06 47 17.5, USCGS: H= 06 28 26.2, 22.1 N, 142.6 E, h about 257 km, Volcano Islands region.
- 31 (e)Z 07 26 (50), eiZ 07 28 14.7, traces, weak.
- 31 eZ PKP 08 57 24, eiZ 08 57 42.8, USCGS: H= 08 37 25.8, 30.8 S, 177.3 W, h about 42 km, Kermadec Islands.
- 31 eiZ P or PKP 10 30 05.4, traces.

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- 1 Z 03 58-04 01, traces, weak.
- 2 iZ Pn 04 02 06.6, iZ 04 02 09.2, iZ Sg 04 02 43.6, D= 260 km, weak.
- 2 eiZ (Sn) 16 52 44.8, eiZ 16 53 08.8, obscured by microseisms, traces, near.
- 3 iZ! Pn 03 34 29.7, iZ! Pg 03 34 38.0, iZ 03 34 41.3, iZ Sn 03 35 00.0, (ei)Z Sg 03 35 15.3, eiZ! 03 35 27.6, D= 310 km;
- 3 eiZ Pn 09 32 27.6, eiZ! 09 32 35.3, eiZ! 09 33 27.7, traces, disturbed by microseisms.

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- 3 eiZ! P 15 11 45.3, eZ! 15 11 56, eZ PP 15 13 52, eZ 15 14 23. USCGS: H= 15 02 25.5, 22.4 N, 45.2 W, h about 25 km, North Atlantic Ocean. D= about 5 800 km.
- 4 iZ- Pn 05 32 25.3, iZ! Pg 05 32 33.8, iZ X₁ 05 32 41.5, iZ X₂ 05 32 46.9, Z Sn 05 33 (00), eiZ (Sg) 05 33 10.6, iZ! 05 33 24.1, iZ! 05 33 34.9!, BCIS: H= 05 31 56, 45° N, 14⁰1/2 E, Dalmatian coast, Yugoslavia. USCGS: H= 05 31 33.6, 43°N, 15.8 E, h about 41 km, Adriatic Sea. D=310 km.
- 6 eiZ P 18 02 58.3, traces. USCGS: H= 17 50 08.6, 39.1 N, 123.1 W, h about 23 km, California. Felt: San Francisco and Ukiah.
- 7 eiZ 19 58 05.7, eZ 19 58 51, BCIS: H= 19 55 14, 45° N, 5.5 E, Vercors (France). Felt in the epicentral region. (aftershock from April 25, 04^h 44^m).
- 8 iZ P 09 23 50.8, eZ 09 24 12, USCGS: H= 09 11 17.6, 29.1 N, 129.5 E, h about 42 km, Ryukyu Islands.
- 9 eiZ 10 46 09.2, eZ! 10 47 26.
- 9 eiZ P or PKP 17 37 13.1, eZ 17 37 22.0, eiZ 17 37 29.1, weak traces.
- 9 eiZ - P 20 10 28.1, eiZ 20 10 30.6, USCGS: H= 19 57 35.5, 13.6 N, 91.2 W, h about 104 km, Off coast of Guatemala.
- 11 iZ Pn 03 02 37.4, iZ 03 02 46.8, iZ 03 02 52.7, iZ Sg 03 03 34.8, iZ! 03 03 49.2, D= about 400 km. Foreshock Central-Bosnia, Yugoslavia ?
- 11 iZ! PKP 04 54 12.0, iZ 04 54 23.3, USCGS: H= 04 35 00.6, 19.6 S, 177.7 W, h about 370 km, Fiji Islands.
- 11 Z 05 06-07 traces, weak.
- 11 iZ+ NE Pn 07 16 37.3, iZN 07 16 38.4, iE Pg 07 16 47.5, iNE! 07 17 11.2, iNE! Sg 07 17 36, iNE M 07 18 30, :Tn= 3, An=190, Te=3, Ae=280. D= 400 km, BCIS: H= 07 15 42, 43.6 N, 18.3 E, determination was made by using electronic calculating machine. Yugoslavia. Forcibly felt in Central Bosnia. Important damage (VIII⁰MCS) at Kalinovik, Sarajevo, Krasnica, Zenica and Mostar (Press). USCGS: H= 07 15 37.6, 43.5 N, 18.3 E, h about 21 km, Yugoslavia. 10 injured, extensive damage at Sarajevo. Felt along Adriatic coast to Trieste (II⁰ MCS). Mag.= 5-5 1/4 (Pal).
- 11 iZ Pn 07 43 41.6, iZ 07 43 43.2, iZ Pg 07 43 49.0, iZ Sg 07 44 38.4, D= about 390 km, aftershock, Bosnia.
- 11 Z Pn 08 50 (00), iZ! Sg 08 50 58.8, D= about 400 km, aftershock, Bosnia.
- 11 iZ Pn 08 52 24.4, iZ! Pg 08 52 33.5, iZ X 08 52 59.5, iZ 08 53 15.0, iZ (Sg) 08 53 20, iZ 08 53 35.6, D= 380 km, aftershock Bosnia, remarkable.
- 11 eZ (Pn) 12 30 57.7, eZ 12 31 53.2, traces, weak.
- 11 eiZ Pn 13 55 59.0, iZ Sg 13 56 54.1, D= about 370 km.
- 11 eiZ Pn 22 14 35.1, iZ (Sg) 22 15 27.9, D= about 360 km.

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- 11 eiZ P or PKP 23 50 40.9, traces, weak.
- 12 eiZ Pn 05 26 17.0, eiZ Sg 05 26 37.6, D= about 160 km, weak.
- 12 eiZ (Pn) 07 21 08.4, traces, weak.
- 12 eiZ Pn 15 46 34.4, eiZ Sg 15 47 30.6, D= 380 km.
- 13 eiZ 12 44 20.4, eZ 12 44 39.2, traces.
- 13 Z 19 20-21 traces, seismic?
- 14 eiZ P 08 03 49.0, eiZ 08 03 54.4, eZ PP 08 06 37, eZ! 08 06 45. USCGS: H= 07 51 51.0, 54.3 N, 169.1 E, h about 34 km, Near Islands, Aleutian Islands. Mag.= 6 - 6 1/4 (Pas), 5 3/4 (Berk). D= 8 650 km.
- 14 eZ! P 08 07 48.5, USCGS: H= 07 55 48.9, 54.2 N, 169.3 E, h about 56 km, Near Islands, Aleutian Islands, Mag.= 6 (Pas).
- 14 eZ P or PKP 13 35 06, traces.
- 14 iZ- Pn 15 08 22.9, iZ Pg 15 08 28.2, iZ! 15 08 29.7, iZ PgPg 15 08 34.3, iZ Sn 15 08 52.0, iZ! Sg 15 09 (00), D= 260 km.
- 14 eZ 19 09 (00), traces.
- 14 eZ 19 27 30, traces, weak.
- 14 eZ(P) 22 26 53, eiZ 22 27 08.7, eZ PP 22 30 08.7, USCGS: H= 22 14 10.9, 26.4 N, 126.5 E, h about 22 km, Ryukyu Islands.
- 15 iZ- Pn 15 21 38.8, iZ Pg 15 21 43.8, iZX₁ 15 21 52.5, iZ! Sn 15 22 07.4, iZ! Sg 15 22 14.4, iZ! SgSg 15 22 17.9, D= appr. 260 km.
- 15 eiZ P or PKP 17 57 29.5
- 15 eiZ P or PKP 20 37 43.4, traces.
- 16 eiZ Pn 17 59 46.2, eiZ (Sg) 18 00 37.2, D= 340 km.
- 16 eZ PKP 18 08 17.5, USCGS: H= 17 48 47.1, 16.6 S, 167.7 E, h about 25 km, New Hebrides Islands.
- 16 eZ P or PKP 21 50 29.5, traces.
- 17 eZ+ P 04 40 42, USCGS: H= 04 27 39.2, 40.1 S, 45.7 E, h about 15 km, Indian Ocean, north of Crozet Islands.
- 17 eiZ+ P 04 48 06.7, iZ 04 48 20.6, eiZ 04 49 36.2, USCGS: H= 04 39 26.6, 33.3 N, 76.2 E, h about 22 km, Kashmir region.
- 17 eZ PKP 13 41 34, traces, USCGS: H= 13 22 21.4, 10.7 S, 165.3 E, h about 106 km, Santa Cruz Islands region.
- 17 eiZ Pn 14 04 39.8, iZ Pg 14 05 01.8, iZ Sn 14 05 48.8, eiZ! Sg 14 06 22.9, D= 680 km, Felt: Tetovo (42° 01' N, 20° 58' E), P.R. Macedonia, V⁰MCS. Shallow. Not felt in neighbour villages. (Ljubljana).
- 17 eiZ P or PKP 17 15 57.7, traces.
- 19 iZ PKP 00 01 26.9, iZ! 00 01 28.0, iZ! 00 01 30.9,

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- 19 (cont.) eZ 00 02 09, USCGS: H= 23 42 31.3, 4.8 S, 151.8 E, h about 47 km, New Britain region. Mag.= 6 3/4 (Pas).
- 19 (e)Z 07 06 (11), eiZ 07 08 08.3, eZ 07 09 24.5, traces.
- 19 eZ 08 39 34, eiZ 08 40 24.1, eiZ 08 41 22.9, weak traces.
- 19 eiZ PKP 16 04 56.3, eiZ 16 05 06.1, USCGS: H= 15 45 03.2, 17.0 S, 172.5 W, h about 29 km, Tonga Islands.
- 19 eiZ 16 57 08.2, traces.
- 19 eZ PKP₁ 16 58 23.8, eiZ PKP₂ 16 58 31.7, eZ 16 58 43.0, eZ 17 00 16. USCGS: H= 16 39 21.4, 20.9 S, 177.8 W, h about 405 km. Fiji Islands region.
- 21 eZ P 04 56 50.7, eZ 04 57 05.3, USCGS: H= 04 43 43.3, 5.7 N, 82.6 W, h about 23 km, South of Panama. Mag.= 6 1/4 (Pas), 6 1/4 (Berk).
- 21 eiZ Pn 21 35 37.4, Z 21 36 (00), eZ (Sg) 21 36 17, (D= 270 km, weak).
- 22 eiZ- P 12 01 48.2, traces. USCGS: H= 11 48 55.3, 32.2 N, 142.4 E, h about 25 km, Off coast of Honshu, Japan.
- 22 eiZ (Pg) 20 55 46.4, Z! 20 56 (00), weak.
- 23 eiZ- P 05 11 21.3, iZ 05 11 25.7, USCGS: H= 05 04 57.6, 29.7 N, 49.1 E, h about 25 km, Persian Gulf.
- 23 eiZ P 09 57 22.3, iZ! 09 57 27.4, iZ! 09 57 41.1, eZ 09 58 05.7, eZ PP 10 00 45, USCGS: H= 09 44 37.7, 25.7 N, 128.5 E, h about 36 km, Ryukyu Islands, Mag.= 5 3/4 (Berk), D= 9 550 km.
- 23 iZ+ P 10 11 11.5, eiZ 10 11 21.0, iZ 10 11 37.7, USCGS: H= 09 58 26.0, 121.4 E, 19.1 N, 40 km, Near coast of Luzon, Philippine Islands.
- 23 eZ 13 07 07, traces, very weak.
- 24 eiZ- P 01 32 27.1, eZ 01 32 31.4, eZ PP 01 35 02.5, USCGS: H= 01 21 18.2, 25.6 N, 101.1 E, h about 35 km, Junnan Province, China. D= about 7 750 km.
- 24 eZ+ P 15 16 23, eiZ 15 16 41.7, USCGS: H= 15 08 15.5, 12.5 N, 48.6 E, h about 47 km, Gulf of Aden.
- 25 eZ PKP₁ 01 50 21.1, iZ! PKIKP 01 50 29.1, USCGS: H= 01 31 41.9, 20.8 S, 179.2 W, h about 645 km, Fiji Islands region.
- 25 Z 06 46-48 traces.
- 25 eiZ+ P 11 22 56.8, iZ! 11 23 01.8, eiZ 11 23 12.6, eZ PP 11 26 09, USCGS: H= 11 10 23.3, 24.3 N, 122.6 E, h about 33 km, Off coast of Formosa. Mag.= 5 3/4 (Pas), 5 1/2 (Berk).
- 25 iZ Pn 16 36 49.7, eZ 16 36 58, eiZ (Sn) 16 37 37.3, eiZ! 16 37 52.2, traces. (D= about 430 km).
- 26 eiZ Pn 14 56 16.1, eiZ 14 56 37.0, eZ Pg 14 56 51, iZ Sn 14 57 41.5, iZ 14 58 17.2, eiZ Sg 14 58 28.6, D= 840 km.

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- 26 eZ(Pn) 18 44 49, eZ 18 46 05.
- 26 eZ(Pn) 20 19 54, eZ 20 22 04.8, eZ! 20 22 19, weak traces.
- 27 Z 08 37-39 traces, weak.
- 28 eiZ P or PKP 00 13 31.1, obscured by microseisms, eiZ 00 14 21.2.
- 28 eiZ 01 46 38.9, traces, weak, disturbed by microseisms.
- 28 (e)Z 02 20 22, eiZ 02 21 12.5, traces.
- 28 eiZ- Pn 06 52 45.4, Z! 06 53 (00), eiZ 06 53 11.2, iZ Pg 06 53 16.2, eiZ Sn 06 54 06.8, iZ Sb 06 54 35.0, iZNE! Sg 06 54 54.8, eiZ!! 06 55 07, D= 790 km. BCIS: H= 06 51 05, 40.8 N, 20.9 E, Albania, south of Ohrida Lake. Skopje: Felt: Ohrid, Bitola, Kičeno, Skopje. USCGS: H= 06 51 04.3, 40.9 N, 20.8 E, h about 25 km, Near Greece-Albania border. Mag.= 4.4 (Athenes), felt IV-V⁰MCS. Macroseismic Surface: 15.000 km² (Athenes).
- 28 (e)Z P (diffr.) 19 04 16.4, (e)Z 19 08 06.5, eZ PP 19 08 44.5, D= 11 550 km. USCGS: H= 18 50 27.5, 0.2 S, 124.3 E, h about 58 km, Northern Celebes.
- 28 eZ- PKP₁ 21 06 51.2, iZ! (PKIKP) 21 06 57.5, eZ PKP₂ 21 07 05.7, eZ pPKP₁ 21 08 (00), USCGS: H= 20 47 30.6, 17.6 S, 175.2 W, h about 244 km, Tonga Islands region, D= about 16 800 km.
- 29 eiZ- P 16 39 23.7, iZ 16 39 29.1, USCGS: H= 16 28 04.4, 62.3 N, 152.4 W, h about 39 km, Mag.= 4 3/4-5 (Pal).
- 29 eiZ P or PKP 18 17 46.6, traces.
- 29 (e)Z Pn 19 47 54, eZ (Sn) 19 49 08, eiZ M 19 50 06.5, (D= about 480 km), weak.
- 29 eiZ 21 02 44.4, eiZ 21 02 53.4.
- 29 eiZ+ P 22 41 47.0, eiZ 22 42 11.6, USCGS: H= 22 35 40.5, 32.1 N, 48.4 E, h about 25 km, Iran. Felt: Shushtar and Masyed Soleyman.

Ljubljana, October 25, 1962

V. Ribarič