

University of Ljubljana
Astronomical and Geophysical
Observatory

1962

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

PRELIMINARY SEISMOLOGICAL
BULLETIN

(October-December 1962)

Station	No.	Mag.	W/L	Y
1-2	2.8	2.71	0.03	50
2-3	2.8	2.82	0.02	50



University of Ljubljana
Astronomical and Geophysical
Observatory

1962

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

PRELIMINARY SEISMOLOGICAL BULLETIN

from October 1, to December 31
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.XI.1962):

Component:	T_0	$v:1$	r/T_0^2	V
N-S	4.9	2.7:1	0.019	60
E-W	4.8	2.8:1	0.016	59

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

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

October 1962

OCTOBER 1962

1 eZ P or PKP 00 58 54.3, traces.

1 (ei)Z 04 15 40.0 :very weak trace, iZ+PKP 04 15 41.3,

October 1962

-2-

- 1 (cont.) iZ- 04 15 48.0, USCGS: H= 03 56 52.0, 17.5 S, 178.9 W, h about 550 km, Fiji Islands.
- 1 eZ P 08 02 53.6, eiZ 08 03 06.6, USCGS: H= 07 50 52.8, 6.5 N, 95.1 E, h about 33 km, Nicobar Islands region.
- 1 eiZ P 10 05 28.0, eiZ 10 05 34.1, USCGS: H= 09 53 32.9, 47.3 N, 151.5 E, h about 127 km, Kurile Islands.
- 1 eZ PKP 10 16 37, eiZ 10 16 58.6, USCGS: H= 09 57 02.2, 17.5 S, 167.1 E, h about 33 km, New Hebrides Islands. Felt: Port Vila.
- 1 iZ+ P 12 21 03.9, iZ! 12 21 08.1, iZ! 12 21 18.6!, eiZ! 12 21 29.3, eiZ 12 21 53.0, eZ PP 12 22 34.8, eiZ! 12 23 26.7, eZ S 12 26 49.4, eiZ 12 27 10.7, USCGS: H= 12 13 57.4, 27.9 N, 54.9 E, h about 16 km, Southern Iran. BCIS: H= 12 13 50, 27.0 N, 54 3/4 E, Iran, SE from Lar. D= 4.150 km.
- 1 iZ+ PKP₁ 21 02 12.1, eiZ 21 02 19.0, eiZ 21 02 49.7, USCGS: H= 20 42 36.5, 19.6 S, 174.5 W, h about 143 km, Fiji Islands region. D= 17.000 km.
- 1 eiZ Pn 22 33 26.7, eiZ Px 22 33 50.2, eiZ 22 35 14.8, iZ Sg 22 35 26.4, D= about 730 km.
- 3 eZ P 01 23 14 USCGS: H= 01 16 46.7, 40.6 N, 29.7 W, h about 33 km, Azores region.
- 3 eZ P 01 25 50.0, eiZ 01 25 52.9, weak traces, USCGS: H= 01 19 22.5, 40.7 N, 29.7 W, Azores region.
- 3 eiZ PKP 17 33 23.3, iZ 17 33 34.0, USCGS: H= 17 13 41.5, 21.0 S, 168.4 E, h about 33 km, Loyalty Islands.
- 3 eiZ PKP 21 19 27.1, USCGS: H= 20 59 49.4, 21.3 S, 168.3 E, h about 41 km, Loyalty Islands.
- 4 (e)Z P 04 48 38, very weak, USCGS: H= 04 42 05.8, 40.4 N, 29.5 W, h about 33 km, Azores region.
- 4 eiZ Pn 19 48 29.8, iZ 19 48 33.8, iZ! 19 48 50.7!, iZ 19 49 06.4, eiZ P_gP_gP_g 19 49 15.2, iZ! 19 49 23.1, eiZ Sn 19 50 16.5, iZNE 19 50 33.3, iZ! 19 50 49.8, eiZ! 19 51 07.2, eiZ SgSg 19 51 19.4, eZ 19 51 40.3, Z! 19 52 (00), eiNE 19 52 05, BCIS: H= 19 46 10, 38.1 N, 22.6 E, h about 40 km, Greece, Gulf of Corinth region. (Determination was made by using electronic calculating machine). USCGS: H= 19 46 10.1, 38.3 N, 22.7 E, h about 38 km, Greece. Felt: Corinth. D= 1.020 km.
- 4 eiZ+ P 23 00 15.7, USCGS: H= 22 47 35.5, 4.1 N, 76.2 W, h about 67 km, Central Colombia.
- 5 eiZ P or PKP 11 03 35.4, weak traces.
- 5 eiZ (Pn) 12 49 30, weak, eiZ Sg 12 50 30.7, D= about 400 km.
- 5 iZ P 20 09 17.7, iZ! 20 09 19.7, eiZ 20 09 41.2, eiZ PP 20 10 38.2, eZ 20 11 50, BCIS: H= 20 02 22, 35.1 N, 58.6 E, Iran. Chiraz: 5 dead and several injured; Ristok destroyed (35°16'N, 59°13'E), damages at

October 1962

- 5 (cont) Ahmadabad (35° 06'N, 58° 44'E). Felt at Torbat Heidariyeh, Kadhmar (35°12'N, 58°27'E), Gonabad (34°20'N, 58°42'E) and Tayebad (34.7°N, 60.7°E). D= 3.900 km.
- 5 iZ Pn 23 01 06.5, iZ P_g 23 01 13.7, iZ P_gP_g 23 01 15.8, eiZ Sn 23 01 38.0, iZ Sg 23 01 49.4, eiZ! 23 01 58.0, iZ M 23 02 06.5, D= 300 km, weak.
- 6 eiZ (Pn) 00 46 24.9, eiZ Sg 00 47 08.5, (D= about 300 km) weak.
- 6 eiZ Pn 01 56 30.3, eiZ Sg 01 57 14.1, D= 300 km, very weak.
- 6 eiZ P 03 23 31.4, eZ PP 03 24 45, obscured by microseisms, USCGS: H= 03 17 07.2, 40.8 N, 29.5 W, h about 33 km, Azores region, BCIS: H= 03 17 00, 40 3/4 N, 29 1/2 W, Atlantic Ocean, off NW of Azores. D= about 3.600 km, weak.
- 6 eiZ+ PKP₁ 04 42 53.4, iZ! 04 43 11.6, eiZ PP 04 46 33.4, iZ! 04 46 48.1, USCGS: H= 04 23 24.1, 17.4 S, 167.7 E, h about 33 km, New Hebrides Islands. Felt: Port Vila. D= about 15.950 km.
- 6 eiZ P 05 51 07.0, eiZ pP 05 51 25.5, traces, USCGS: H= 05 38 40.3, 26.2 N, 126.9 E, h about 122 km, Ryukyu Islands. D= about 9.400 km.
- 6 eiZ PKP 08 15 52.0, iZ 08 15 57.1, USCGS: H= 07 56 20.4, 17.4 S, 167.9 E, h about 33 km, New Hebrides Islands. Felt.
- 6 Z PKP 08 23 (02) in minute interruption, iZ! 08 23 06.8, eiZ! 08 23 29.4, USCGS: H= 08 03 31.7, 17.2 S, 168.0 E, h about 33 km, New Hebrides Islands.
- 6 eiZ PKP 08 51 19.6, eiZ 08 51 26.5, USCGS: H= 08 31 50.1, 17.3 S, 167.8 E, h about 33 km, New Hebrides Islands.
- 6 eiZ PKP 11 19 52.1, eiZ! 11 19 58.7, USCGS: H= 11 00 52.8, 13.3 S, 167.3 E, h about 209 km, New Hebrides Islands.
- 6 iZ+ P or PKP 11 23 17.7, eiZ 11 24 27.9;
- 6 eiZ PKP 18 20 37.3, iZ 18 20 44.0, eiZ 18 20 59, USCGS: H= 18 01 05.4, 17.6 S, 168.0 E, h about 33 km, New Hebrides Islands. Felt.
- 6 eiZ+ PKP 23 50 56.3, Z! 23 51 (00), iZ 23 51 08.9, iZ pPKP 23 51 25.2, USCGS: H= 23 31 27.7, 17.5 S, 167.6 E, h about 42 km, New Hebrides Islands.
- 7 eiZ 01 08 34.8, eZ! 01 08 45.2.
- 7 iZ Pn 11 53 40.7, iZ P_g 11 53 50.0, iZ Sg 11 54 31.2, iZ 11 54 47.0, D= about 330 km, weak, disturbed by microseisms.
- 8 iZ+ P_g 09 28 34.2, iZ Sg 09 28 35.6, iZ! 09 28 42.2, D= 10 km, local. Felt: Ljubljana: III^oMCS, R=15 km, very weak.

October 1962

-4-

- 8 eZ Pn 14 28 36.5, iZ 14 29 12.3, iZ 14 29 30.7, iZ Sn 14 30 (00), iZ 14 30 30.7, iZ SgSg 14 31 08.1, obscured by microseisms. BCIS: H= 14 26 37, 42.4 N, 24.6 E, Southern Bulgaria. Sofija: Felt at Peštera and Velingrad (VII^oMCS). Damages. D= about 890 km.
- 8 eiZ Pn 15 13 11.6, eiZ! 15 14 07.1, eiZ Sn 15 14 38.1, eZ (Sb) 15 15 22, iZ SgSg 15 15 46.0, eiZ! 15 16 24.7, USCGS: H= 15 11 12.8, 42.2 N, 24.1 E, h about 33 km, Bulgaria. BCIS: H= 15 11 17, 42.4 N, 24.3 E, Southern Bulgaria. Aftershock. D= about 880 km.
- 8 iZ+ P 22 08 51.5, eiZ! 22 09 06.5, iZ 22 09 15.4, USCGS: H= 21 56 22.2, 24.3 N, 121.7 E, h about 29 km, Near east coast of Formosa. Mag.= 6 (Pas), 6 1/4 (Pal).
- 9 eiZ+ P 16 06 54.7, eiZ 16 07 46.8, eiZ PP 16 08 39.1, USCGS: H= 15 59 17.5, 36.4 N, 71.3 E, h about 241 km, Hindu Kush. Felt: Peshawar. D= 4.780 km.
- 10 eiZ+ PKP₁ 22 12 18.9, iZ! 22 12 22.6, iZ 22 12 43.8, USCGS: H= 21 52 36.8, 15.1 S, 173.3 W, h about 33 km, Samoa Islands region. Felt: Apia.
- 11 eiZ P or PKP 01 56 39.3.
- 12 iZ Pn 11 24 22.9 (very weak), iZ Pg 11 24 29.2, iZ 11 24 56.8, iZ Sg 11 24 59.2, iZ 11 25 07.5, iZ! 11 25 09.7, eiZ! M 11 25 30.0, D= 280 km, weak.
- 12 (e)Z 15 38 43, traces, near.
- 12 iZ Pn 23 15 30.9, iZ Px 23 15 37.9, iZ Pg 23 15 39.8, iZ X₁ 23 15 50.8, eiZ 23 16 00.8, iZ Sn 23 16 09.6, eiZ Sg 23 16 25.0, iZ SgSg 23 16 30.7, D= about 360 km.
- 13 iZ P 10 29 32.6, eiZ 10 29 40.0, Z! 10 31 (00), (e)Z S 10 34 21, USCGS: H= 10 23 38.2, 35.5 N, 49.8 E, h about 33 km, Northwestern Iran. Felt. BCIS: H= 10 23 37, 35.8 N, 50.3 E, Determination was made by using electronic calculating machine. Chiraz: Iran, west of Teheran. Damages at coast of Caspian Sea at Rondsar (37^o07'N, 50^o15'E). Felt at Teheran. D= about 3.200 km.
- 13 iZ P or PKP 16 26 28.5, eiZ 16 26 33.4, eiZ! 16 26 58.7, obscured by microseisms.
- 14 eiZ P 01 51 04.6, iZ! 01 51 45.9, obscured by microseisms, USCGS: H= 01 38 38.8, 1.5 N, 99.0 E, h about 100 km, Near west coast of Sumatra.
- 14 eiZ+ P 15 21 26.9, eiZ 15 21 35.6, USCGS: H= 15 08 59.5, 31.8 N, 131.5 E, h about 33 km, Near south coast of Kyushu, Japan.
- 14 iZ Pg 20 25 59.8, iZ X₁ 20 26 08.8, iZ Sg 20 26 36.5, iZ SgSg 20 26 43.3, eiZ 20 27 06.2, D= 310 km, weak.
- 15 eiZ + PKP 00 45 08.8, eiZ 00 45 20.0, USCGS: H= 00 25 21.3, 22.1 S, 172.1 E, h about 40 km, Loyalty Islands region.
- 15 (i)Z Pn 16 18 51.5, iZ Pg 16 19 12.4, iZ Sg 16 20 10.8, eiZ 16 20 24.6, D= 530 km, weak.



October 1962

-5-

- 15 eiZ PKP₁ 23 56 32.3, iZ PKP₂ 23 57 21.4, iZ 23 57 28.3, USCGS: H= 23 36 35.0, 43.5 S, 169.8 E, h about 33 km, Near coast of South Island, New Zealand. Felt.
- 16 eiZ PKP 05 40 57.5, eiZ 05 41 04.7, USCGS: H= 05 21 26.5, 17.1 S, 167.6 E, h about 33 km, New Hebrides Islands.
- 16 eZ 09 45 42, eiZ (Sg) 09 46 34.9, obscured by microseisms.
- 18 eiZ 00 19 07.5, traces, obscured by microseisms. Wien: 47.4^oN, 11.8^oE, Valley of Inn, near Jenbach (IV^oMCS), Tyrol.
- 18 iZ P 08 52 49.3, iZ 08 53 37.4, eiZ 08 53 47.0, microseisms, USCGS: H= 08 40 55.5, 46.5 N, 149.6 E, h about 140 km, Kurile Islands.
- 18 eiZ Pn 21 43 24.4, eiZ Sg 21 44 24.3, eiZ! 21 44 35.5, D= 390 km.
- 19 Z 16 00-02, weak traces. Italy. Alps of Piemont.
- 20 iZ P or PKP 00 00 50.1
- 22 (e)Z 15 35 (38), eiZ 15 36 00 in minute interruption, weak traces.
- 23 iZ! PKP 00 45 46.2, eiZ 00 46 11.1, USCGS: H= 00 26 00.3, 15.2 S, 173.0 W, h about 33 km, Samoa Islands region.
- 23 eiZ+ P 09 14 10.1, iZ! 09 14 14.7, USCGS: H= 09 02 02.2, 9.5 N, 70.0 W, h about 33 km, North-central Venezuela.
- 25 eiZ 03 58 21.
- 25 eiZ Pn 18 43 32.2, iZ Pg 18 43 47.4, iZ Sg 18 44 35.4, iZ! 18 44 49.5, iZ! 18 44 57.5, D= 420 km. Epicenter: near Stolac, Hercegovina (43^o04'N, 17^o57'E). Stolac: felt V^oMCS, Poplas: IV^oMCS. Some weak aftershocks occurring during the night from 25th to 26th October.
- 25 eiZ P or PKP 20 26 11.5, eiZ! 20 26 21.0.
- 25 iZ P 21 55 20.2, iZ 21 55 27.5, USCGS: H= 21 49 37.5, 33.3 N, 46.1 E, h about 33 km, border Iran-Irac. October 26th from 05^h11^m to 12^h39^m no Z records.
- 26 eiZ P or PKP 19 04 59.3.
- 27 eiZ P or PKP 08 23 41.5.
- 27 eZ P or PKP 19 45 50.8, traces.
- 28 iZ+ Pg 01 18 44.5, iZ Sg 01 19 13.1, D= about 230 km.
- 29 Z 16 57-59 very weak traces.
- 31 eiZ Pg 03 54 20.8, iZ! Sg 03 54 36.9, eiZ 03 54 43.6, iZ 03 54 56.4, obscured by microseisms. D= about 130 km, weak.
- 31 (e)Z 05 56 (12), eiZ 05 57 10.9, obscured by microseisms.

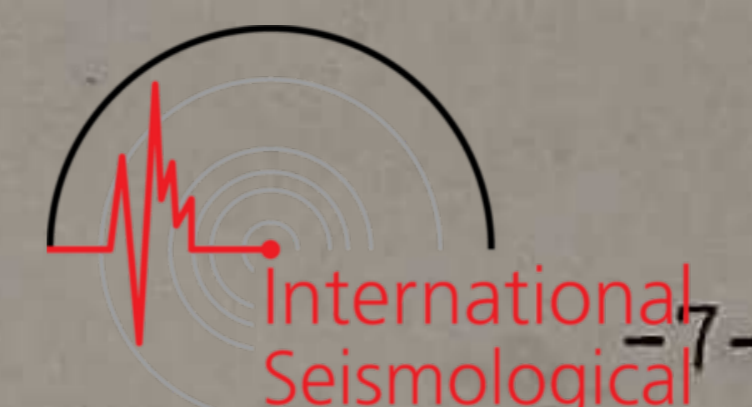
November 1962

-6-

NOVEMBER 1962

- 2 (ei)Z P 15 12 52.2, eiZ 15 13 04.8, USCGS: H= 15 00 25.4, 36.7 N, 141.1 E, h about 75 km, Near east coast of Hondo, Japan.
- 4 Z 00 29-31 weak traces.
- 4 eiZ PKP 23 12 24.0, eiZ PP 23 13 45.4, USCGS: H= 22 53 34.2, 43.2 S, 75.6 W, h about 33 km, Off coast of Chile. Mag.= 5 3/4-6 (Pas), 5 1/2 (Pal).
- 5 eiZ P 11 50 57.0, iZ 11 51 08.3, obscured by microseisms, USCGS: H= 11 46 12.1, 66.4 N, 6.8 E, h about 33 km, Off coast of Norway.
- 6 eZ! 00 16 55, iZ 00 17 13.1, iZ 00 17 38.3, obscured by microseisms. USCGS: H= 00 09 47.2, 28.0 N, 55.6 E, h about 33 km, Southern Iran. Felt: Hormuz Islands.
- 6 iZ (Pg) 16 36 08.0, iZ Sg 16 36 14.3, D= 50 km, very weak, no macroseismic reports.
- 7 iZ Pn 00 54 44.0, iZ Pg 00 54 51.8, iZ Sn 00 55 16.3, iZ! 00 55 19.7, iZ! 00 55 23.2, iZ Sg 00 55 26.2, iZ 00 55 37.3, D= 300 km, weak, disturbed by microseisms.
- 7 eiZ PKP 16 21 11.2, eZ 16 21 25.3, USCGS: H= 16 03 04.1, 7.8 S, 119.8 E, h about 156 km, Flores Sea.
- 8 iZ! P or PKP 01 06 10.7, weak, obscured by microseisms.
- 9 iZ P 01 16 51.9, iZ 01 17 07.9, eiZ 01 17 19.7, eiZ PP 01 17 40.3, obscured by microseisms. USCGS: H= 01 11 02.1, 33.4 N, 47.2 E, h about 33 km, Iraq-Iran border region. Felt: Pol-E-Dochtar. D= about 3.100 km.
- 9 iZ! P 02 16 50.0, iZ 02 16 53.3, weak. USCGS: H= 02 14 47.2, 45.8 N, 26.7 E, h about 130 km, Central Romania.
- 10 eiZ+ P 01 45 30.2, iZ 01 45 36.9, iZ PcP 01 45 45.2, iZ 01 45 58.6, iZ 01 46 25.9, eZ PP 01 48 20, eZ S 01 55 40, USCGS: H= 01 33 15.0, 43.7 N, 147.7 E, h about 24 km, Kurile Islands region. D= about 8.900 km.
- 10 iZ PKP 07 36 44.1, USCGS: H= 07 17 08.5, 17.9 S, 169.4 E, h about 54 km, New Hebrides Islands region.
- 11 eZ+ P 11 41 34.2, eiZ 11 41 40.2, iZ 11 41 47.6, eZ 11 42 13.2, USCGS: H= 11 31 44.5, 55.8 N, 113.1 E, Baikal Lake region, (U.S.S.R.), h about 33 km, Mag.= 6 1/4 (Pas).
- 11 iZ Pg 12 59 26.2, iZ PgPg 12 59 33.8, iZ Sg 12 59 46.2, iZ! 12 59 57.5, D= 170 km.
- 11 Z 15 11.5 traces, obscured by microseisms, eiZ 15 12 09.2.
- 11 eiZ P 15 22 33.5, eZ PP 15 23 55, eiZ PPP 15 24 14.8, USCGS: H= 15 15 33.6, 17.2 N, 40.7 E, h about 34 km, Red Sea. D= about 4.000 km.

November 1962



- 11 eiZ PKP 16 29 08.3, eiZ! 16 29 18.3, eiZ 16 29 32.1, eiZ PP 16 32 14.1, iZ 16 32 57.5, eiZ 16 33 11.9, USCGS: H= 16 09 57.6, 12.9 S, 166.5 E, h about 77 km, Santa Cruz Islands. Felt: Port Vila. Mag.= 6-6 1/2 (Pas).
- 11 eiZ PKP 22 33 07.8, iZ 22 33 14.6, eiZ PP 22 34 29.5, USCGS: H= 22 14 18.7, 43.2 S, 76.0 W, Off coast of southern Chile. Mag.= 6 1/2-6 3/4 (Pas), D= 13.300 km.
- 11 iZ 23 03 44.1, iZ 23 04 17.6, weak traces.
- 12 iZ P or PKP 01 07 40.0, weak traces.
- 12 Z 02 13-15 traces.
- 12 eZ P 13 01 50.4, iZ! 13 02 (00), USCGS: H= 12 49 10.8, 26.0 N, 128.4 E, h about 40 km, Ryukyu Islands.
- 12 eiZ P 21 06 38.8, USCGS: H= 20 55 39.0, 17.8 S, 13.6 W, h about 33 km, South Atlantic Ocean.
- 13 eiZ P 09 06 46.0, eiZ 09 07 06.4, USCGS: H= 08 54 39.1, 42.0 N, 141.9 E, h about 61 km, Off coast of Hokkaido, Japan.
- 14 Z 02 51 (00), iZ 02 51 33.4, weak traces, obscured by microseisms.
- 14 eiZ P or PKP 06 00 45.6, eZ 06 00 53.1.
- 14 eiZ- P 08 00 37.0, iZ 08 00 49.0, USCGS: H= 07 48 05.5, 37.5 N, 140.8 E, h about 61 km, Hondo, Japan.
- 15 iZ Pn 05 24 38.9, eiZ (Pb) 05 24 48.3, iZ Pg 05 24 55.8, iZ! PgPg 05 25 (00), iZ X₂ 05 25 15.0, iZ! Sn 05 25 26.7!, iZ (Sg) 05 25 57.2, iZ 05 26 05.1, D= about 440 km. BCIS: H= 05 23 46, 44.5°N, 9.3°E, Italy. Ligure Appenins, 40 km NE from Genua.
- 15 eiZ PKP 16 44 17.5, obscured by microseisms. USCGS: H= 16 25 09.4, 6.9 S, 146.7 E, h about 40 km. New Guinea.
- 16 iZ! Pn 05 52 05.4, iZ Pg 05 52 14.1, iZ Sg 05 52 56.1, iZ! 05 53 06.0!, D= about 330 km, obscured by microseisms.
- 16 iZ Pg 06 49 12.9, iZ (Sg) 06 49 31.5, (D= 150 km), weak, obscured by microseisms.
- 16 iZ+ P 21 21 28.6, iZ! pP 21 21 35.6, eiZ 21 21 53.0, iZ! 21 22 (00), iZ! 21 22 23.9, eZ PP 21 24 12, USCGS: H= 21 10 01.8, 13.5 N, 93.2 E, h about 33 km, Andaman Islands. Mag.= 6-6 1/4 (Pal), D= about 8.000 km.
- 17 eiZ Pn 21 22 33.4, eiZ 21 23 22.3, eZ (SgSgSg) 21 24 35, weak.
- 21 iZ 14 26 20.2, obscured by microseisms, weak traces.
- 23 eiZ PKP₁ 23 24 37.4, iZ PKP₂ 23 24 52.3, USCGS: H= 23 05 47.4, 21.5 S, 179.3 W, h about 609 km, Fiji Islands.
- 24 eiZ P 16 29 46.5, iZ 16 29 53.6, obscured by microseisms, USCGS: H= 16 19 44.9, 9.8 N, 40.7 W, h about 33 km, Mid Atlantic Ocean.

November 1962

-8-

- 25 eiZ Pn 01 24 51.1, iZ SgSg 01 25 56.5, iZ 01 26 11.6, traces, obscured by microseisms.
- 26 eiZ 01 48 56.6, iZ! P 01 49 19.3, eZ 01 49 26, USCGS: H= 01 41 04.9, 36.2 N, 70.0 E, h about 110 km, Hindu Kush.
- 26 eZ+ P 05 37 48.7, iZ 05 38 21.8, eZ PP 05 39 06.7, USCGS: H= 05 29 30.2, 39.8 N, 77.2 E, h about 14 km, Sinkiang Province, China.
- 26 eZ PKP 16 18 39, eiZ! 16 18 41.1, iZ 16 19 06.7, USCGS: H= 15 58 46.2, 23.8 S, 175.8 W, h about 19 km, Tonga Islands.
- 26 (e)Z 17 36 (53), eiZ (Sg) 17 37 06.3, very weak, local.
- 27 iZ+ P 07 05 13.6, eiZ PcP 07 05 26.4, iZ 07 05 31.8, iZ pP 07 05 59.3, eiZ 07 06 15.7, eiZ PP 07 06 24.5, USCGS: H= 06 52 57.8, 25.1 N, 122.9 E, h about 148 km, Ryukyu Islands. D= 9.200 km.
- 28 iZ P 05 13 58.6, iZ 05 13 26.6, traces, obscured by microseisms, USCGS: H= 05 02 36.1, 22.4 S, 10.5 W, h about 33 km, South Atlantic Ocean.
- 28 iZ P 05 20 42.4, eiZ 05 21 10.2, USCGS: H= 05 09 15.0, 22.5 S, 10.7 W, h about 33 km, South Atlantic Ocean.
- 28 iZ- P 15 37 38.9, iZ PcP 15 37 56.5, eiZ pP 15 38 05.9, USCGS: H= 15 25 58.7, 9.9 N, 93.4 E, h about 53 km, Andaman Islands.
- 28 iZ Pg 17 45 55.4, iZ! Sg 17 45 59.9, iZ 17 46 (03), eiZ 17 46 15.9, D= 35 km, weak, no macroseismic reports.
- 28 iZ Pg 21 41 53.2, iZ Sg 21 42 09.2, iZ! 21 42 17.6, D= 130 km, weak.
- 29 (ei)Z Pn 04 58 24.5, Z 04 59 (03), eiZ Sg 04 59 19.1, Stuttgart: Hoher Peissenberg, Upper Bavaria (SW from Weilheim), H= 04 57 34, very weak.
- 29 eiZ PKP₁ 09 23 49.7, iZ PKP₂ 09 23 55.1, eiZ 09 24 (03), iZ 09 24 23.7, USCGS: H= 09 03 51.1, 22.3 S, 175.9 W, h about 33 km, Tonga Islands.
- 29 iZ PKP 19 26 10.0, eiZ! 19 26 13.8, eiZ! 19 26 17.7, eZ 19 26 59.5, eiZ PP 19 29 32.6, USCGS: H= 19 06 37.6, 17.3 S, 168.5 E, h about 33 km, New Hebridea Islands. Felt: Port Vila and Tongoa. D= about 16.050 km.
- 29 iZ P or PKP 19 32 59.7.
- 30 eiZ Pn 12 33 56.6, iZ Pg 12 34 08.1, eiZ X₁ 12 34 20.9, iZ X₂ 12 34 30.8, iZ Sg 12 34 57.6, iZ M 12 35 01.8, D= 400 km. Sarajevo: Treskavica Mountain, Bosnia. Felt: Sarajevo: 3,5 MCS.
- 30 iZ P 22 08 17.9, eZ 22 08 41, USCGS: H= 21 51 22.9, 17.4 N, 99.6 W, h about 51 km, Guerrero, Mexico, Mag.= 5 1/4- 5 1/2 (Pal).

December 1962



DECEMBER 1962

- 1 eZ P or PKP 00 11 52.
- 1 eiZ P 02 02 35.8, eiZ 02 02 50.5, USCGS: H= 01 50 20.4, 52.4 N, 170.1 W, h about 38 km, Fox Islands, Aleutian Islands.
- 1 eZ PKP 04 36 54, eiZ 04 37 37.6, USCGS: H= 04 16 59.1, 29.7 S, 177.7 W, h about 52 km, Kermadec Islands.
- 4 iZ PKP 17 00 07.4, traces, obscured by microseisms, USCGS: H= 16 40 06.0, 16.5 S, 172.8 W, h about 33 km, Samoa Islands region. Mag.= 5-5 1/4 (Pal).
- 6 iZ P 04 16 07.5, obscured by microseisms, USCGS: H= 04 04 09.8, 49.0 N, 154.3 E, h about 85 km, Kurile Islands.
- 7 iZ P 09 46 39.7, eiZ 09 47 10.3, eiZ PcP 09 47 18.0, USCGS: H= 09 36 01.5, 38.0 N, 106.3 E, h about 33 km, Central China.
- 7 eiZ+ P 14 15 51.0, iZ+! 14 15 53.5, eiZ 14 15 58.6, eZ 14 16 14, eiZ pP 14 17 31.4, eZ PP 14 19 35, eZ 14 21 34, eZ S 14 25 57.5, eiZ! 14 27 16.3, USCGS: H= 14 03 37.0, 29.2 N, 139.2 E, h about 411 km, Bonin Islands. D= 10.100 km. Mag.= 6 3/4-7 (brk).
- 8 iZ PKP₁ 18 38 13.1, iZ! 18 38 17.3, iZ PKP₂ 18 38 27.9, iZ! 18 38 38.6!, Z! 18 39 (03), eZ PP 18 41 51, USCGS: H= 18 18 29.1, 15.2 S, 173.7 W, h about 33 km, Tonga Islands region.
- 8 iZ P 21 40 05.9, iZ 21 40 13.6, iZ pP 21 42 17.1, iZ sP 21 43 24.0, iZ PP 21 44 17.0!, iZ! NE 21 44 19.8, iZ! 21 44 25.7, iZ pPP 21 46 11.0, eNE! 21 49 48.5, eZ SKS 21 50 06.5, eZ S 21 50 57; D= about 11.100 km. USCGS: H= 21 27 22.2, 25.8 S, 63.4 W, h about 620 km, Salta-Santiago del Estero Provinces border, Argentina.
- 9 eiZ PKP 14 35 42.5, iZ 14 35 48.0, USCGS: H= 14 16 05.2, 22.4 S, 177.0 W, h about 204 km, Tonga Islands region.
- 9 eiZ PKP 21 14 01.4, eiZ 21 14 14.2, eZ 21 14 29, USCGS: H= 20 54 13.7, 17.7 S, 173.6 W, h about 60 km, Tonga Islands. Mag.= 5.2 (CGS).
- 10 iZ Pn 06 19 39.7, iZ 06 19 52.7, eiZ! (Sn) 06 21 41.2, weak, obscured by microseisms.
- 10 Z 13 21 (02), iZ Sg 13 21 28.9, (D= about 240 km).
- 10 iZ Sg 23 11 45.9, weak traces, obscured by microseisms.
- 11 eiZ 00 18 47.8, weak trace, obscured by microseisms.
- 11 eiZ+ PKP 18 12 12.5, iZ 18 12 18.1, USCGS: H= 17 51 58.9, 24.8 S, 177.6 W, h about 98 km, Tonga Islands.
- 12 eiZ PKP₁ 10 27 42.8, weak trace, eiZ+ PKP₂ 10 28 12.0, iZ 10 28 40.8, USCGS: H= 10 08 48.5, 4.8 S, 153.8 E, h about 94 km, New Britain.

December 1962

-10-

- 12 eiZ+ P 23 08 47.7, eiZ! 23 09 01.3, eiZ pP 23 09 22.5, USCGS: H= 22 56 45.8, 4.6 N, 96.5 E, h about 138 km, Sumatra.
- 13 Z 22 33-34, near traces, very weak, disturbed by microseisms.
- 13 eiZ P 22 49 01.5, disturbed by strong microseisms, USCGS: H= 22 45 28.4, 35.2 N, 28.3 E, h about 39 km, Dodecanese Islands.
- 14 iZ Pn 10 58 25.4, iZ(Pb) 10 58 31.0, iZ! Pg 10 58 43.6, iZ X₂ 10 59 00.9, eiZ Sn 10 59 15.8, iZ! Sb 10 59 30.5, iZ! Sg 10 59 40.0, eiZ 10 59 58.0, F= 11 03 -; BCIS: H= 10 57 09, 44 1/2 N, 20 1/2 E, Yugoslavia, 30 km S from Beograd. Felt IV^o at Beograd. Beograd: no damage in epicentral region.
- 15 eiZ P 03 53 32.7, very weak, BCIS: H= 03 48 40, 67^oN, 15.0^oE, W coast of Norway.
- 16 Z 14 28-29 traces, near, obscured by microseisms.
- 17 eZ P 11 13 21, eiZ PP 11 17 33.1, disturbed by microseisms; USCGS: Celebes Sea.
- 18 eiZ P 02 13 48.7, USCGS: H= 02 06 09.2, 39.8 N, 71.4 E, h about 77 km, Kirghiz S.S.R.
- 18 eiZ- Pn 07 24 29.8, iZ 07 24 40.5, Athens: ei Pn 07 22 09.1, Strasbourg: iZ- P 07 25 42;
- 18 iZ 20 24 09.1,
- 19 eiZ PKP 13 15 46.3, eZ! 13 15 56.6, iZ 13 16 (02); USCGS: H= 12 56 19.7, 4.7 S, 154.0 E, h about 98 km, Solomon Islands. Felt: Rabaul, Metlik.
- 19 iZ P or PKP 17 24 32.2, eiZ 17 24 48.4.
- 21 eZ P 08 55 06, iZ 08 55 11.5, eZ PP 08 58 18.5, USCGS: H= 08 42 48.3, 52.4 N, 168.5 W, Aleutian Islands. D= appr. 9.500 km.
- 21 iZ+ P 09 12 59.3, iZ 09 13 17.9, eZ PP 09 15 55, USCGS: Aleutian Islands. D= appr. 9.500 km. Trieste: Mag.= 6 3/4-7.
- 21 iZ+ P 09 22 21.6, iZ PcP 09 22 36.1, eZ 09 23 10, eiZ PP 09 24 58.6, USCGS: Aleutian Islands. D= 9.500 km. Trieste: Mag.=7.0
- 21 iZ- P 09 45 26.3, eiZ 09 45 48.1, USCGS: H= 09 33 15.5, 42.4 N, 142.3 E, h about 27 km, Near south coast of Hokkaido, Japan.
- 21 eZ PKP 17 55 41.7, iZ 17 55 54.6, USCGS: H= 17 35 56.1, 4.6 S, 153.8 E, h about 95 km, New Britain region.
- 21 eiZ- P 18 33 43.3, iZ 18 33 57.5, USCGS: H= 18 20 44.7, 15.3 N, 121.7 E, h about 55 km, Near west coast of central Luzon, Philippine Islands. Felt: Manila.
- 21 eiZ P or PKP 18 45 35.2.

December 1962



-11-

- 21 eiZ P or PKP 19 48 14.2, iZ 19 48 27.4.
- 22 iZ+ P.P 01 12 09.1 iZ! 01 12 10.6, iZ 01 12 21.0, USCGS: H= 00 52 23.4, 22.0 S, 170.1 E, h about 33 km, Loyalty Islands region. Mag.= 6 1/2-6 3/4 (Pas).
- 22 iZ+ PKP 01 32 42.0, eiZ 01 32 59.7, USCGS: H= 01 13 02.6, 22.0 S, 170.1 E, h about 33 km, Loyalty Islands region.
- 22 iZ+ PKP 01 48 34.8, iZ! 01 48 39.6, iZ 01 48 43.8, USCGS: H= 01 28 48.9, 21.9 S, 170.1 E, h about 33 km, Loyalty Islands region.
- 22 eiZ+ P 15 32 47.0, iZ 15 32 51.6, iZ PcP 15 33 01.2, iZ 15 33 22.9, USCGS: H= 15 20 31.0, 52.5 N, 168.8 W, h about 47 km, Aleutian Islands. Mag.=6 1/4 (Pas), 6 3/4 (Tri), D= 9.100 km.
- 23 iZ- Pn 00 45 30.2, iZ! 00 45 49.3, iZ 00 45 54.3, iZ (Pg) 00 45 58.3, iZ PgPgPg 00 46 11.2, eiZ 00 46 30.7, eiZ 00 45 38.2, eiZ Sn 00 46 45.5, eiZ! 00 46 50.5, Z (Sb) 00 47 (02), iZ 00 47 04.3, iZ! 00 47 14.4, iZ Sg 00 47 21.7, iZ! NE SgSg 00 47 33.4!, F: 00 50 - D= about 700 km. BCIS: H= 00 44 00, 41.3 N, 20.3 E, Albania-Yugoslavia border region. USCGS: H= 00 43 56.3, 41.3 N, 20.4 E, h about 33 km, Albania-Yugoslavia border region. (corrected preliminary readings).
- 24 eiZ PKP 12 00 32.5, iZ 12 00 37.0, USCGS: H= 11 40 46.7, 22.0 S, 170.1 E, h about 33 km. Loyalty Islands region.
- 26 iZ Pg 04 56 58.4, iZ Sg 04 57 13.9, very weak. D= 125 km.
- 26 iZ+ P 09 02 41.6, iZ! 09 02 45.6, Z PP 09 03 (05), iZ PPP 09 03 12.8, eZ S 09 06 22.6, obscured by microseisms. BCIS: H= 08 58 12, 39.3 N, 10.9 W, h about 40 km, Atlantic Ocean, off west coast of Portugal. Serra do Pilar: Felt at Lisboa, Coimbra, Oporto. Press: forcibly felt at Lisboa. USCGS: H= 08 58 11.1, 39.3 N, 10.6 W, h about 19 km, Off coast of Portugal. D= 2.150 km.
- 26 eiZ+ P 22 37 12.7, iZ 22 37 21.9, eiZ PP 22 40 13.8, USCGS: H= 22 25 15.5, 53.9 N, 168.7 E, h about 33 km, Komandorskie Islands. Mag.= 6 1/2 (Pas), (Pal), 6 1/2-6 3/4 (Tri).
- 26 eiZ P 23 33 40.4, iZ! pP 23 33 49.8, eZ! 23 34 01, eiZ 23 34 21.1, eiZ PP 23 35 31.5, eiZ 23 35 37.4, USCGS: H= 23 25 16.7, 23.9 N, 65.4 E, h about 34 km, Arabian Sea. Quetta: H= 23 25 24, 24 3/4 N, 66 1/2 E, D= 5.150 km.
- 26 eiZ+ P 23 58 12.0, iZ 23 58 22.1, iZ 23 58 32.2, USCGS: H= 23 46 14.7, 54.0 N, 168.8 E, h about 33 km, Komandorskie Islands.
- 27 iZ+ P 18 31 00.4, eiZ 18 31 21.6, eiZ PP 18 34 11.6, USCGS: H= 18 18 42.0, 39.9 N, 142.0 E, h about 36 km, Near east coast of southern Honshu, Japan. D=9.100 km.

December 1962

-12-

- 28 eiZ P or PKP 02 14 23.9, eiZ 02 14 29.4.
- 28 eiZ P 21 50 05.4, eiZ 21 50 10.2, eZ 21 50 17.7,
USCGS: H= 21 39 07.9, 17.1 S, 14.1 W, h about 33 km,
South Atlantic Ocean.
- 28 eiZ P 23 32 37.6, eZ 23 33 19, eZ 23 34 50, eiZ! S 23
35 11.2, USCGS: H= 23 29 30.2, 34.7 N, 23.9 E, h about
33 km, Mediterranean Sea. D= about 1.500 km.
- 29 eiZ PP 10 58 53.4, eiZ 10 59 01.6, eiZ 11 00 21.9,
obscured by microseisms. USCGS: H= 10 41 04.1, 20.0 S,
69.9 W, h about 46 km, Northern Chile. Felt: Arequipa,
Peru. Mag.= 6 3/4 (Pas), 6 1/2 (Berk), 6 (Pal), 6 1/2-
6 3/4 (Tri).
- 29 eiZ PKP 15 07 52.9, obscured by strong microseisms.
USCGS: H= 14 47 41.4, 31.2 S, 177.9 W, h about 43 km,
Kermadec Islands. Mag.= 6-6 1/4 (Pas).
- 31 eiZ P 08 12 17.2, eiZ 08 12 27.1, USCGS: H= 08 00 23.8,
52.5 N, 160.8 E, h about 51 km. Near east coast of
Kamchatka.
- 31 eiZ+ P or PKP 11 13 41.3, iZ 11 13 47.0, eiZ 11 14 41.4.
- 31 (e)Z 16 36 56, traces, obscured by microseisms, eiZ
16 38 30.5.
- 31 eiZ PKP₁ 19 59 52.6, very weak, iZ!-PKP₂ 19 59 57.4,
iZ 20 00 08.3, iZ 20 00 17.5, USCGS: H= 19 40 10.5,
22.7 S, 171.4 E, h about 39 km, Loyalty Islands
region.

Ljubljana, March 10, 1963

V. Ribarič



International
Seismological
Centre

December 1962

28

28

28

29

29

31

31

31

31