



BULLETIN OF THE SLOVAK SEISMOGRAPHIC STATIONS FOR THE YEAR 1974

**BULLETIN
OF THE SLOVAK
SEISMOGRAPHIC
STATIONS
BRATISLAVA
ŠROBÁROVÁ
HURBANOVO
AND
SKALNATE PLESO
FOR THE YEAR 1974**

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Bulletin
of the Slovak Seismographic
Stations Bratislava, Šrobárová
Hurbanovo and Skalnaté Pleso
for the Year 1974

Editor

Klára Mrázová

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Contents

1. Introduction	7
2. The Program for Producing the Bulletin	9
3. List of Seismic Phases	11
4. List of Seismic Phases Stored on Mass Storage File ..	13
5. List of Abbreviations Used in this Bulletin	15
6. Station Instrumentation	17
7. List of Quoted Agencies Reporting Epicentral Parame- ters	21
8. References	23
9. Observations of Microseisms at the Station Hurbanovo	25
10. Macroseismic Observations of Earthquakes on the Territory of Slovakia in the Year 1974	51
11. Earthquake Observations at the Stations Bratislava, Šrobárová, Hurbanovo and Skalnaté Pleso for the Year 1974	54

Introduction

The seismological bulletin for the year 1974 contains the results of the interpretation of records from the network of seismograph stations on the territory of Slovakia: Bratislava /central station/, Šrobárová, Hurbanovo and Skalnaté Pleso.

The records from the network are collected at the Geophysical Institute of the Slovak Academy of Sciences in Bratislava, where they are analysed. The preliminary results of the interpretation were published in ten-day preliminary bulletins for stations Bratislava, Šrobárová and Skalnaté Pleso. The ten-day preliminary bulletins were exchanged with about twenty seismological institutions from various parts of the world. The times of the onsets of the important earthquake phases appearing on the Bratislava and Šrobárová seismograms were sent to the seismological centre in Strasbourg twice a week by telex. The earthquake data obtained from the Bratislava and Šrobárová seismograms were also punched on cards which were regularly supplied to the International Seismological Centre in Edinburgh.

This annual bulletin contains the final analysis of the records and the completed and revised parameters of earthquakes and explosions. The sources of information regarding epicentres, origin times, depth of foci and shock magnitudes, frequently quoted are as follows: Bulletin of ISC, Vol. 11, 1974; Bulletin of BCIS, 1974; Quarterly Bulletin of the Academy of Sciences of the U.S.S.R., 1974. The time standard used throughout is Greenwich Mean Time.

The epicentres of almost all earthquakes or explosions occurring in Czechoslovakia were determined at the Geophysical Institute of the Czechoslovak Academy of Sciences in Prague or at the Geophysical Institute of the Slovak Academy of Sciences in Bratislava.

The processing of data and numerical calculations were carried out according to a program compiled by Mrs. K. Mrázová, using the computer CDC 3300 in the Computing Centre, Bratislava.

For calculating the surface-wave magnitudes the standard calibrating functions [5] were used. Station corrections were ignored, as were the calculations of surface-wave magnitudes at distances less than 6° . Surface wave magnitudes were calculated for earthquakes with focal depths less or equal 80 km. The values of body-wave magnitudes from P waves in the distance interval [16° , 100°] were calculated on the basis of Q functions [6]. The values of the amplitudes of short period P waves registered on the vertical component are given in nanometers while the values of AEW and ANS for calculating surface-wave magnitudes are given in micrometers.

An earthquake magnitude formula, giving the closest possible fit to surface-wave magnitudes determined by NEIS was developed for the station Šrobárová [8]. The value of station correction for Šrobárová is -0.22 and the standard error ± 0.03 . For the determination of magnitudes the station correction was not taken into consideration.

For the measurements of microseisms the records of the Mainka horizontal seismograph at the station Hurbanovo were used. The maximum microseismic trace amplitudes were measured on the NS and EW components four times per day at 0 h, 06 h, 12 h, and 18 h G.M.T. Using a short computer program the trace amplitudes were converted into ground amplitudes /in micrometers/ and tabulated. The period was determined by measuring the length to 0.1 mm of 2-4 whole periods in a well developed maximum group. The periods are given in whole seconds. The trace amplitudes were measured from peak to peak, halved and the corresponding ground motion given to 0.1 μ m.

In preparing this bulletin the author has been in different parts assisted by Mrs. N. Hupková, Mrs. Z. Ferechová, Mrs. A. Stranovská and Mrs. J. Šajgalíková. The investigation of macroseismic observations of earthquakes felt on the territory of Slovakia was carried out by Mr. I. Brouček.

The content of this bulletin is in accordance with the recommendations given in [7].

The Program for Producing the Bulletin

The program has been written in USASI FORTRAN/MASTER [9]. It consists of one main program and 11 procedures. The theoretical travel-time tables [1-4] of important phases /p.12, 13/ are stored on a mass storage file; each phase /except the phases Pg, Pb, Pn and Sg, Sb, Sn/ requires 14 blocks /the block size being 1536 characters/, one block for the case of surface focus and 13 blocks for focal depths expressed in fractions of an Earth's radius / $R = 6338$ km/, measured from the base of the crust /Table 1/. The observed arrival times as well as amplitudes and periods of surface and body waves for all stations were punched on 80 column punched cards. When all punched cards were accumulated for the whole year, they were transferred and stored on a mass storage file.

The program contains the following procedures:

- "DIAZ" for calculating the epicentral distances and azimuths of the observing stations
- "USP" for arranging the epicentral distances into ascending order
- "PAG" for the layout of the Bulletin
- "HL" converts the depth of foci given in km into fraction of Earth's radius and according to this value is then determined the number of block on the mass storage file, where the theoretical travel-times are stored
- "QML" for determination of surface-wave magnitudes according the "Prague" formula /Vaněk et al., 1962/. Station corrections are ignored, as are observations at distances less than 6° . MLH is calculated only when the focal depth $h < 80$ km

"QMPV" for calculation of body-wave magnitudes on the basis of Q functions [6], stored on mass storage file in digital form. Body-wave magnitudes are calculated for the distance range [16° , 100°]

Subroutine designated as "PHI", for automatic phase identification. According this subroutine the travel-time for each phase is compared with all possible theoretical travel-times. From all possible phases it is determined and printed that one, which has the minimum value of $|O-C|$. In the case when the minimum value of $|O-C| \geq 20.0$ s the observed phase is printed without phase-identification, i.e. only the observed time is printed and designated by letter i or e. A disadvantage of this subroutine is, that in cases when no other phase fits better according to $|O-C|$, there are printed two identical phases /except the P phase/ e.g. two pP phases. In these cases it should be considered as a real phase that one which has smaller residual $|O-C|$.

"PHI1" distance range [8° , 105°]

"PHI2" [0° , 8°] and $h \leq 33$ km, or when there is no depth determination

"PHI3" $\Delta \geq 110^\circ$

"PHI4" $\Delta < 8^\circ$ and $h > 33$ km

"PHI5" $105^\circ \leq \Delta < 110^\circ$

The listing of the whole program may be obtained on request from the author.

List of Seismic Phases

Phase		
In Bulletin	Usual	
PN,SN	Pn,Sn	longitudinal and transverse waves refracted below the crust
PG,SG	Pg,Sg	waves in the upper crust
PB,SB	Pb,Sb	waves in the lower crust
P,S	P,S	direct longitudinal or transverse waves propagating in the mantle
PKIKP	PKIKP	direct longitudinal wave propagating through the inner core, travel-time branch DF [1]
PKHKP	PKHKP	direct longitudinal wave refracted in the intermediate zone between the inner and outer core; phase symbol according to Bolt [4], travel-time branch GH
PKP2	PKP2	direct longitudinal wave propagating only through the outer core, travel-time branch AB [1]
PP	PP	P waves reflected once at the Earth's surface
PCP	PcP	P waves reflected at the Earth's core boundary
SCS	ScS	S waves reflected at the Earth's core boundary
SKS	SKS	S waves passing through the core P waves
SKSDE	SKS	transformed back into S waves in the mantle;

		the letter DE designates the branch DE according to [1]
PKSAB	PKS	P wave transformed into S on the refraction
PKSBC	PKS	when leaving the core; AB, BC and DF
PKSDF	PKS	designate the branches according to [1]
SKPAB	SKP	S wave transformed into P on the refraction
SKPBC	SKP	when leaving the core; AB, BC and DF
SKPDF	SKP	designate the branches according to [1]
PS,SP	PS,SP	P and S waves reflected and transformed at the Earth's surface
SS	SS	S waves reflected once at the Earth's surface
AP	pP	P waves reflected from the surface as P waves, supposing deep focus earthquake
XP	sP	S waves reflected from the surface as P waves, supposing deep focus earthquake
XS	sS	S waves reflected from the surface as S waves, supposing deep focus earthquake
APKP	pPKP	PKP waves reflected from the surface, supposing deep-focus earthquake
APKIKP	pPKIKP	PKIKP waves reflected from the surface, supposing deep-focus earthquake
APKIKP	pPKP2	PKP2 waves reflected from the surface, supposing deep-focus earthquake
APKIKP	pPKHKP	PKHKP waves reflected from the surface, supposing deep-focus earthquake
PDIFF	Pdif	P waves diffracted on the core boundary
PKPEX	-	PKIKP waves [extrapolation of travel-times for the distance range (105, 110)]
LMH,LMV	Lm	waves of maximum amplitude in the surface wave group, on the horizontal or vertical component

Table 1

Number of blocks on mass storage file	Phase	Distance range	Transformed distance range
1 - 14	P	0 - 105	1 - 106
15 - 28	PKIKP	106 - 108	1 - 75
29 - 42	PKP2	143 - 180	1 - 38
43 - 56	PKHKP	125 - 156	1 - 32
57 - 70	S	0 - 107	1 - 108
71 - 84	SKS	62 - 180	1 - 118
85 - 98	SKSDE	99 - 133	1 - 35
99 - 112	PP	0 - 180	1 - 181
113 - 126	pP	1 - 105	1 - 105
127 - 140	sP	1 - 105	1 - 105
141 - 154	PcP	0 - 100	1 - 101
155 - 168	PS	44 - 147	1 - 104
169 - 182	SP	44 - 147	1 - 104
183 - 196	SKPAB	131 - 148	1 - 18
197 - 210	SKPBC	130 - 140	1 - 11
211 - 224	SKPDF	104 - 180	1 - 77
225 - 238	PKSAB	131 - 148	1 - 18
239 - 252	PKSBC	130 - 140	1 - 11
253 - 266	PKSDF	104 - 180	1 - 77
267 - 280	SS	0 - 180	1 - 181
281 - 294	ScS	0 - 100	1 - 101
295 - 308	ss	19 - 100	1 - 92
309	Pg	0 - 8	1 - 9
310	Pb	0 - 8	1 - 9
311	Pn	0 - 8	1 - 9
312	Sg	0 - 8	1 - 9

Number of blocks on mass storage file	Phase	Distance range	Transformed distance range
313	Sb	0 - 8	1 - 9
314	Sn	0 - 8	1 - 9
315 - 328	Qfu	16 - 100	1 - 85
329	Sigfu	6 - 180	1 - 175
330 - 343	HKPKP	0 - 44	1 - 45 +++
344 - 357	pPKIKP	106 - 180	1 - 75
358 - 371	pPKP2	143 - 180	1 - 38
372 - 385	pPKHKP	125 - 156	1 - 32
386 - 399	Pdif	105 - 110	1 - 6
400 - 413	PKPEX	105 - 110	1 - 6

Remarks:

The line marked +++, here the interval 0 - 44 is not the distance range but $dt/d\Delta$, as HKPKP means the depth corrections for PKP.

Sigfu ... the calibration functions /Vaněk et al., 1962/ [5].
Qfu ... Q functions [6].

List of Abbreviations Used in this Bulletin

A	length of recording arm
Az	azimuth of station with respect to the epicentre
Dc	epicentral distance
Dg	damping constant of the galvanometer
Ds	damping constant of the seismometer
E	poorly distinguishable beginning of a phase
$\xi : l$	damping ratio
H	origin time
DEPTH	depth of focus in km
I	impulsive beginning of a phase
K	characteristics of microseisms: 1 disturbance showing microseisms in groups 2 continuous disturbance 3 disturbance of a mixed and irregular character 0 no microseismic movement 0.0 very weak microseismic movement, amplitude less than 0.1 micrometer tt disturbance could not be measured because of earthquake v disturbance could not be measured because of gusts of wind ... disturbance could not be measured for other reasons Kg moment of inertia of the galvanometer Ks moment of inertia of the seismometer l reduced pendulum length MB body-wave magnitude given by ISC MLH surface-wave magnitude MPV body-wave magnitude calculated from short period P waves r max. deviation due to friction

62 coupling coefficient
 Tg free period of the galvanometer
 Ts free period of the seismometer
 Vo static magnification
 Vm max. dynamic magnification
 + and - compressional or dilatational motion in a longitudinal wave
 NE nuclear explosion

Station Instrumentation

Coordinates of the Seismographic Stations

Station	Latitude	Longitude	Altitude	Lithologic foundation
Bratislava	48°10'06''N	17°06'18''E	270 m	Granite
Šrobárová	47°48'48''N	18°18'48''E	150 m	Bed of sand
Hurbanovo	47°52'25''N	18°11'34''E	115 m	Bed of sand
Skalnaté Pleso	49°11'20''N	20°14'32''E	1772 m	Granite

Constants for the Year 1974

HURBANOVC

"MAINKA", horizontal seismograph, M = 210 kg, air damping, mechanical registration

Month	Component	Ts [s]	Vo	r [mm]	E:l	Paper speed
January-June	N-S E-W	8.1 9.8	50.0 51.0	0.9 2.0	3.6 3.2	30 mm/min
June-December	N-S E-W	8.1 9.2	47.1 56.0	0.7 1.7	3.6 3.4	30 mm/min

"VEGIK", electromagnetic seismograph with galvanometric registration
1974, Jan. 01-Dec. 31

Component	T_s [s]	T_E [s]	D _s	D _E	σ^2 [m]	A	1	K ₁	K ₂ $[\text{kg m}^2 \cdot 10^{-8}]$	Paper speed
Z	1.4	1.27	0.57	1.42	0.25	0.5	0.094	0.01	0.081	15 mm/min
N-S	1.27	1.15	0.50	1.52	0.085	0.5	0.0934	0.0101	0.077	15 mm/min
E-W	1.27	1.15	0.51	1.51	0.092	0.5	0.0940	0.0098	0.08	15 mm/min

SROBAROVÁ

"KIRNOS", electromagnetic seismograph with galvanometric registration, class "C"
according to [7]

1974, Jan. 01-Oct. 31

Component	T_s [s]	T_E [s]	D _s	D _E	σ^2 [m]	A	1	K ₁	K ₂ $[\text{kg m}^2 \cdot 10^{-8}]$	Paper speed
Z	20.5	1.20	0.46	7.27	0.204	0.93	0.488	0.362	0.493	15 mm/min
N-S	23.0	1.20	0.41	7.59	0.219	0.98	0.483	0.358	0.502	15 mm/min
E-W	25.3	1.16	0.46	7.81	0.293	0.93	0.499	0.353	0.470	15 mm/min

SROBAROVÁ

"KIRNOS", electromagnetic seismograph with galvanometric registration, class "C"
according to [7]

1974, Nov. 01-Dec. 31

Component	T_s [s]	T_E [s]	D _s	D _E	σ^2 [m]	A	1	K ₁	K ₂ $[\text{kg m}^2 \cdot 10^{-8}]$	Paper speed
Z	20.9	1.16	0.43	7.85	0.234	0.93	0.488	0.362	0.425	15 mm/min
N-S	21.7	1.20	0.42	7.41	0.245	0.93	0.488	0.358	0.409	15 mm/min
E-W	24.3	1.15	0.50	7.75	0.264	0.96	0.499	0.358	0.406	15 mm/min

SKALNATE PLESO

"VEGIK", electromagnetic seismograph with galvanometric registration

1974, Jan.01-Dec.31

Component	Ts [s]	Tg [s]	Ds	Dg	σ^2	Vm [Tm = 1.3]	Paper speed
Z	1.9	1.9	0.97	0.90	0.12	4851.5	60 mm/min

List of Quoted Agencies Reporting Epicentral Parameters

Code	Agency
ATH	Athens, Seismological Institute, National Observatory, Athens, Greece
BCIS	Bureau Central International de Seismologie, Strasbourg, France
BRA	Bratislava, Geophysical Institute, Slovak Academy of Sciences, Bratislava, Czechoslovakia
ISC	International Seismological Centre, Newbury, United Kingdom
LJU	Ljubljana, Astronomical and Geophysical Observatory, University of Ljubljana, Ljubljana, Yugoslavia
MOS	Academy of Sciences of the U.S.S.R., Institute of Physics of the Earth, Moscow, U.S.S.R.
NEIS	National Earthquake Information Service, Denver, Colorado, U.S.A.
PRU	Práhonice, Geophysical Institute, Czechoslovak Academy of Sciences, Prague, Czechoslovakia
UPP	Uppsala, Seismological Institute, Uppsala, Sweden
USAEC	U.S. Atomic Energy Commission, Washington, U.S.A.
VIE	Vienna, Zentralanstalt für Meteorologie und Geodynamik, Wien, Austria
WAR	Warsaw, Geophysical Institute of the Polish Academy of Sciences, Warsaw, Poland

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Observations of Microseisms
at the Station Hurbanovo

MICROSEISMIC ACTIVITY
COMPONENT EW

JANUARY 1974

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	3	4	5.3	0.0			3	5	5.0	3	5	5.0
3	3	4	8.5	2	6	5.5	2	7	8.3	3	6	4.6
4	3	5	5.0	2	6	13.7	3	5	5.0	3	4	5.3
5	3	5	5.0	3	6	4.6	3	5	5.0	0.0		
6	0.0			0.0			0.0			0.0		
7	3	5	4.0	0.0			3	6	9.2	0.0		
8	3	5	5.0	2	6	3.2	3	5	3.0	0.0		
9	3	6	4.6	3	6	9.2	0.0			0.0		
10	3	5	6.0	3	5	9.9	0.0			0.0		
11	3	6	9.2	2	6	9.2	3	6	5.5	0.0		
12	0.0			3	6	4.6	3	5	5.0	0.0		
13	0.0			0.0			3	5	5.0	0.0		
14	0.0			3	6	4.6	0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	3	5	5.0	2	4	6.4	0.0			0.0		
17	0.0			3	6	9.2	0.0			0.0		
18	0.0			0.0			0.0			0		
19	0.0			3	5	9.9	0.0			0.0		
20	0			0.0			0.0			0.0		
21	0.0			0.0			0.0			0.0		
22	3	6	9.2	2	6	4.6	0.0			0.0		
23	0.0			3	4	5.3	0.0			0		
24	0			0.0			0.0			0		
25	0.0			0.0			0.0			0		
26	0.0			0.0			0.0			0		
27	0.0			0.0			0.0			0.0		
28	1	5	6.0	3	6	9.2	3	5	5.0	0.0		
29	3	4	4.3	0.0			0.0			0.0		
30	3	5	5.0	0.0			3	5	6.0	0.0		
31	0.0			0.0			3	6	9.2	0.0		

MICROSEISMIC ACTIVITY
COMPONENT NS

JANUARY 1974

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			3	6	4.4	3	5	5.9	0.0		
2	3	6	8.8	2	6	5.3	3	6	5.3	3	5	4.9
3	2	6	7.9	2	6	9.7	2	5	10.7	2	7	4.8
4	2	6	8.8	2	5	9.8	2	6	13.2	3	5	4.9
5	3	6	6.2	3	6	4.4	3	5	9.8	3	3	5.7
6	3	6	4.4	3	5	4.9	3	3	5.7	0.0		
7	3	5	4.9	3	6	13.2	3	6	5.3	3	6	9.7
8	3	6	7.9	2	7	7.2	2	4	8.5	3	5	2.9
9	2	4	7.5	1	5	9.8	3	4	5.3	3	7	8.0
10	1	6	5.3	3	4	10.7	3	6	8.8	3	5	9.8
11	3	5	9.8	2	7	8.8	2	5	7.8	3	5	9.8
12	3	6	4.4	2	5	4.9	3	5	13.7	3	7	8.0
13	0.0			0.0			3	5	5.9	0.0		
14	3	5	9.8	1	4	10.7	3	5	4.9	0.0		
15	0.0			1	5	5.9	3	4	6.4	0.0		
16	3	5	9.8	1	5	9.8	3	5	9.8	0.0		
17	3	4	10.7	1	5	9.8	3	5	5.9	0.0		
18	3	6	4.4	1	6	5.3	3	6	13.2	0.0		
19	3	5	10.7	1	4	10.7	3	6	8.8	0.0		
20	0.0			3	5	9.8	0.0			0.0		
21	0.0			2	6	5.3	2	6	8.8	3	5	4.9
22	3	5	5.9	2	5	9.8	1	5	9.8	3	6	8.8
23	3	4	6.4	2	5	8.8	3	4	6.4	0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			3	6	8.8	3	5	4.9	0.0		
26	0.0			0.0			0.0			0		
27	0.0			0.0			3	5	4.9	3	6	8.8
28	1	4	6.4	2	6	9.7	1	5	9.8	3	6	8.8
29	3	5	9.8	2	5	10.7	3	4	6.4	3	5	9.8
30	3	5	4.9	2	5	14.6	1	6	9.7	3	5	9.8
31	3	4	10.7	3	5	4.9	3	6	0.0	3	5	5.9

MICROSEISMIC ACTIVITY
COMPONENT EW

FEBRUARY 1974

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			3	5	6.0	3	5	8.0	0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			0.0			0.0			0		
6	0.0			3	5	14.9	3	6	5.5	0.0		
7	0.0			3	4	4.3	0.0			0.0		
8	0.0			0.0			3	6	9.2	0.0		
9	0.0			3	6	5.5	3	5	5.0	0.0		
10	0.0			3	5	5.0	3	4	10.6	3	5	6.0
11	3	5	9.9	3	6	14.7	3	6	9.2	0.0		
12	3	5	8.0	0.0			0.0			0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			0			0		
15	0.0			3	6	5.5	0.0			0		
16	0.0			0.0			0.0			0.0		
17	0			0.0			0.0			0.0		
18	0.0			0.0			0			0		
19	0.0			0.0			0			0		
20	0.0			0.0			0			0		
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0			0		
23	0.0			0.0			0			0		
24	0			0.0			0			0		
25	0			0.0			0			0		
26	0.0			0.0			3	6	9.2	0.0		
27	0			0.0			0.0			0		
28	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY
COMPONENT NS

FEBRUARY 1974

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	3	4	5.3	1	6	8.8	3	5	5.9	0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			3	5	4.9	0.0			0.0		
5	0.0			3	5	4.9	0.0			0.0		
6	3	6	8.8	1	7	8.0	1	6	8.8	3	6	8.8
7	3	6	8.8	3	6	8.8	3	5	5.9	0.0		
8	0.0			3	5	8.8	3	6	7.0	0.0		
9	3	6	8.8	1	6	7.9	1	6	16.7	2	5	9.8
10	3	6	8.8	3	6	13.2	3	5	9.8	3	5	4.9
11	3	6	8.8	2	6	13.2	1	6	8.8	3	6	10.6
12	3	6	7.9	3	6	9.7	3	5	9.8	0.0		
13	3	6	8.8	1	6	5.3	3	5	9.8	0.0		
14	3	5	9.3	3	6	13.2	3	6	13.2	3	6	7.8
15	3	6	9.8	1	6	5.3	3	6	7.9	0.0		
16	3	5	9.8	3	5	5.3	3	6	8.8	0.0		
17	0.0			0.0			0.0			0		
18	0.0			3	5	4.9	3	5	4.9	0.0		
19	0.0			0.0			0.0			0.0		
20	0.0			0.0			0.0			0		
21	0			0.0			0.0			0		
22	0.0			3	5	4.9	0.0			0.0		
23	0.0			3	6	5.3	0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			3	6	5.3	3	5	5.9	0.0		
27	0.0			0.0			3	4	10.7	0.0		
28	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY

MARCH 1974

COMPONENT EW

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0			0.0			0.0			0.0		
5	0.0			3 4 5.3			0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			3 4 6.4			0.0			0.0		
16	0.0			0.0			0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			0.0			0.0		
19	0.0			0.0			0.0			0.0		
20	0.0			0.0			0.0			0.0		
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			0.0			0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY

MARCH 1974

COMPONENT NS

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	3	5	5.9				1	5	15.6			
2	...						0.0			0.0		
3	0.0						0			0		
4	0.0						3 4 5.3			0.0		
5	3	4	5.3				3 5 7.8			3 5 7.8		
6	0.0						0.0			0.0		
7	0.0						0.0			0.0		
8	0.0						3 5 5.9			3 4 4.3		
9	0.0						0.0			0.0		
10	0.0						0.0			0		
11	0.0						0.0			3 5 11.7		
12	0.0						0.0			0.0		
13	0						0.0			0.0		
14	0						0.0			0.0		
15	0.0						0.0			0.0		
16	3	4	5.3				3 5 7.8			3 4 5.3		
17	0						0.0			3 5 4.9		
18	0.0						3 5 4.9			3 6 5.3		
19	3	6	4.4				0.0			0.0		
20	0.0						0.0			0.0		
21	0.0						0.0			0.0		
22	0.0						0.0			0.0		
23	0.0						0.0			3 4 10.7		
24	0.0						0.0			0.0		
25	0.0						0.0			0.0		
26	0.0						0.0			0.0		
27	0.0						0.0			0.0		
28	0.0						0.0			0.0		
29	0.0						0.0			0.0		
30	0.0						0.0			0.0		
31	0.0						0.0			0.0		

MICROSEISMIC ACTIVITY

APRIL 1974

COMPONENT EW

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0		
5	0.0			0.0			0.0			0.0		
6	0.0			0.0			0.0			0		
7	0.0			0.0			0			0		
8	0.0			3 4 6.4			0.0			0.0		
9	0.0			3 4 5.3			0.0			0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0		
12	0.0			0.0			0.0			0		
13	0.0			3 6 4.6			0.0			0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			0		
17	0.0			0.0			0.0			0		
18	0.0			0.0			0			0		
19	0.0			0.0			0.0			0.0		
20	0			0.0			0			0		
21	0.0			0			0.0			0.0		
22	0.0			0.0			0.0			0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			0.0			0		
25	0.0			0.0			0.0			0		
26	0			0.0			0.0			0		
27	0.0			0.0			0.0			0.0		
28	0.0			0			0.0			0.0		
29	0.0			0.0			0.0			0		
30	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY

APRIL 1974

COMPONENT NS

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			0.0			0.0			0		
6	0.0			0.0			0.0			0.0		
7	0.0			0			0			0		
8	0.0			1 5 4.9			3 4 6.4			0.0		
9	0.0			3 4 4.3			0.0			0.0		
10	0.0			0.0			0.0			3 4 4.3		
11	0.0			3 4 6.4			0.0			0		
12	0.0			0.0			3 5 4.9			0.0		
13	0.0			0.0			0.0			0.0		
14	0			0.0			0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			0		
17	0.0			0.0			0.0			0		
18	0.0			0.0			0.0			0		
19	0.0			0.0			0.0			0		
20	0.0			0.0			0.0			0		
21	0			0			0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			0.0			0		
24	0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			0.0			0		
27	0			0.0			0.0			0.0		
28	0.0			0			0			0.0		
29	0			0.0			0.0			0		
30	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY

MAY 1974

COMPONENT EW

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			0.0			0.0		
2	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
3	2	2	2.3	2	4	2.1	2	4	2.1	2	6	1.8
4	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
5	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
6	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
7	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
8	2	2	2.3	2	2	2.3	2	2	2.3	2	2	2.3
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	2	4	2.1	2	4	3.2	2	4	3.2	2	4	2.1
12	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
13	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
14	2	4	2.1	2	2	2.3	2	2	2.3	2	4	2.1
15	2	4	2.1	2	4	2.1	2	2	2.3	2	4	2.1
16	0.0			0.0			0.0			0.0		
17	2	2	2.3	2	4	5.3	2	4	2.1	2	4	2.1
18	0.0			0.0			0.0			0.0		
19	2	4	2.1	2	4	3.2	2	4	2.1	2	4	2.1
20	2	4	3.2	2	4	3.2	2	4	3.2	2	4	2.1
21	2	2	2.3	2	4	2.1	2	4	3.2	2	2	2.3
22	2	2	2.3	2	4	3.2	2	4	3.2	2	2	2.3
23	0.0			2	2	2.3	2	4	3.2	2	2	2.3
24	0.0			2	2	2.3	2	4	3.2	2	2	2.3
25	0.0			2	2	2.3	2	2	2.3	2	4	2.1
26	2	2	2.3	2	4	3.2	2	4	2.1	2	2	2.3
27	2	2	2.3	2	4	2.1	2	4	2.1	2	2	2.3
28	2	2	3.5	2	2	2.3	2	4	3.2	2	2	2.3
29	2	2	2.3	2	2	2.3	2	2	3.5	2	2	2.3
30	0.0			2	2	2.3	2	4	3.2	2	2	2.3
31	2	2	2.3	2	4	2.1	2	6	4.6	2	2	2.3

MICROSEISMIC ACTIVITY

MAY 1974

COMPONENT NS

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			0.0			0.0		
2	2	3	2.3	2	2	2.4	2	4	2.1	2	3	2.3
3	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
4	0.0			0.0			0.0			0.0		
5	0.0			0.0			0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			0.0			0.0		
8	2	2	2.4	2	2	2.4	2	2	2.4	2	2	2.4
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	2	4	2.1	2	6	2.6	2	4	2.1	2	2	2.4
12	0.0			0.0			0.0			0.0		
13	2	4	2.1	2	4	2.1	2	2	2.4	2	2	2.4
14	0.0			0.0			0.0			0.0		
15	2	4	2.1	2	4	2.1	2	4	2.1	2	4	2.1
16	2	4	3.2	2	4	2.1	2	4	2.1	2	2	2.4
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			0.0			0.0		
19	0.0			0.0			0.0			0.0		
20	0.0			2	4	2.1	2	4	2.1	2	4	2.1
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	2	2	2.4	2	2	3.6	2	2	2.4	2	2	2.4
24	0.0			2	2	2.4	2	2	2.4	0.0		
25		
26	2	2	2.4	2	4	2.1	2	4	2.1	2	4	3.2
27	0.0			2	2	2.4	2	2	2.4	0.0		
28	0.0			2	2	2.4	2	4	2.1	2	2	2.4
29	...			0.0				
30	0.0			2	2	2.4	2	2	2.4	0.0		
31	0.0			0.0			0.0			0.0		

MICROSEISMIC ACTIVITY

JUNE 1974

COMPONENT EW

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	2	4	1.9	2	4	1.9	2	2	2.1	2	2	2.1
3	2	4	1.9	2	4	1.9	2	4	1.9	2	2	2.1
4	2	2	2.1	2	2	2.1	2	2	2.1	2	2	2.1
5	2	2	2.1	2	4	1.9	2	4	1.9	2	2	2.1
6	0.0			2	4	1.9	2	4	1.9	2	2	2.1
7	2	2	2.1	2	4	1.9	2	4	1.9	2	2	2.1
8	2	2	2.1	2	2	2.1	2	2	2.1	2	2	2.1
9	0.0			2	2	2.1	2	4	2.9	2	4	1.9
10	0.0			2	2	2.1	2	2	2.1	2	2	2.1
11	0.0			2	4	2.9	2	4	2.9	2	2	2.1
12	0.0			2	2	2.1	2	2	2.1	2	2	2.1
13	0.0			2	4	2.9	2	4	2.9	2	2	2.1
14	0.0			2	2	2.1	2	4	2.9	0.0		
15	0.0			0.0			0.0			0.0		
16	...			2	2	2.1	2	2	2.1	...		
17	0.0			2	4	1.9	2	2	2.1	2	2	2.1
18	0.0			2	2	2.1	2	4	2.9	2	2	2.1
19	2	2	2.1	2	4	2.9	2	4	2.9	2	2	2.1
20	2	2	2.1	2	2	2.1	2	4	2.9	2	2	2.1
21	0.0			2	2	2.1	2	2	2.1	2	2	2.1
22	2	4	1.9	2	2	2.1	2	2	2.1	2	4	1.9
23	2	2	2.1	2	2	2.1	2	2	2.1	2	4	1.9
24	0.0			2	2	2.1	2	4	1.9	0.0		
25	0.0			2	4	2.9	2	4	2.9	0.0		
26	2	2	2.1	2	4	2.9	2	4	2.9	2	2	2.1
27	2	2	2.1	2	2	2.1	2	4	2.9	2	4	1.9
28	2	2	2.1	2	4	1.9	2	4	2.9	2	2	2.1
29	2	2	2.1	2	6	4.1	2	6	4.1	2	2	2.1
30	2	2	2.1	2	2	2.1	2	6	2.5	2	4	1.9

MICROSEISMIC ACTIVITY

JUNE 1974

COMPONENT NS

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
3	2	2	2.6	2	4	2.3	2	4	2.3	2	2	2.6
4	0.0			2	2	2.6	2	4	2.3	2	2	2.6
5	2	2	2.6	2	4	2.3	2	4	2.3	2	2	2.6
6	0.0			2	2	2.6	2	2	2.6	2	2	2.6
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			2	2	2.6	2	2	2.6	0.0		
10	0.0			2	2	2.6	2	4	2.3	2	2	2.6
11	0.0			2	2	2.6	2	2	2.6	2	2	2.6
12	0.0			2	2	2.6	2	2	2.6	2	2	2.6
13	0.0			2	2	2.6	2	2	2.6	0.0		
14	0.0			2	2	2.6	2	4	3.4	0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			0.0		
17	0.0			2	2	2.6	2	2	2.6	0.0		
18	0.0			2	4	2.3	2	2	2.6	0.0		
19	0.0			2	2	2.6	2	4	3.4	2	2	2.6
20	0.0			2	4	3.4	2	2	2.6	2	2	2.6
21	0.0			2	2	2.6	2	2	2.6	0.0		
22	0.0			2	2	2.6	2	2	2.6	0.0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			2	2	2.6	0.0		
25	0.0			2	2	2.6	2	2	2.6	2	4	3.4
26	0.0			2	2	2.6	2	4	2.3	0.0		
27	0.0			2	2	2.6	2	2	2.6	0.0		
28	0.0			2	2	2.6	2	2	2.6	2	2	2.6
29	0.0			2	2	2.6	2	2	2.6	2	2	2.6
30	0.0			2	2	2.6	2	2	2.6	2	2	2.6

MICROSEISMIC ACTIVITY
COMPONENT EW

JULY 1974

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	2	2	2.1	2	4	1.9	2	4	2.9	2	6	2.5
2	2	9	7.1	2	2	2.1	2	4	0.0	2	6	8.3
3	0.0			2	2	3.2	2	2	3.2	2	4	9.7
4	2	2	2.1	2	2	3.2	2	4	10.7	2	2	2.1
5	2	2	2.1	2	4	2.9	2	4	5.8	2	2	2.1
6	TT			2	4	2.9	2	4	5.8	2	4	2.9
7	2	4	2.9	2	6	6.6	2	2	4.3	2	4	1.9
8	0.0			2	4	2.9	2	4	4.9	2	2	2.1
9	2	4	1.9	2	2	3.2	2	4	4.9	2	4	7.8
10	2	4	2.9	2	4	2.9	2	4	4.9	2	4	4.9
11	2	2	2.1	2	4	1.9	2	4	4.9	2	2	3.2
12	0.0			2	4	1.9	2	4	4.9	2	2	2.1
13	TT			2	2	2.1	2	2	3.2	2	2	3.2
14	0.0			0.0			2	2	2.1	2	4	2.9
15	2	2	2.1	2	4	4.9	2	2	3.2	2	4	4.9
16	TT			2	2	3.2	2	2	3.2	2	2	2.1
17	TT			2	2	3.2	2	2	3.2	0.0		
18	0.0			2	4	4.9	2	6	4.1	2	4	1.9
19	2	2	2.1	2	4	4.9	2	4	2.9	2	2	3.2
20	2	2	2.1	2	4	1.9	2	4	4.9	2	4	1.9
21	2	4	2.9	2	4	2.9	2	4	2.9	2	4	1.9
22	TT			2	4	2.9	2	4	4.9	TT		
23	2	5	2.9	2	4	1.9	2	2	2.1	2	2	2.1
24	2	2	3.2	2	4	2.9	2	4	2.9	2	2	2.1
25	2	2	3.2	2	2	3.2	2	4	4.9	2	4	2.9
26	2	2	2.1	2	2	3.2	2	4	2.9	2	4	2.9
27	2	2	3.2	2	4	2.9	2	4	4.9	2	2	2.1
28	2	2	3.2	2	2	2.1	2	2	3.2	2	2	3.2
29	0.0			2	4	1.9	2	4	1.9	2	2	2.1
30	2	4	2.9	2	4	1.9	2	2	2.1	2	4	1.9
31	2	2	2.1	2	4	2.9	2	4	1.9	2	4	2.9

MICROSEISMIC ACTIVITY
COMPONENT NS

JULY 1974

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	2	2	2.6	2	2	2.6	2	2	3.8	2	2	3.8
2	2	2	3.8	2	2	3.8	2	2	2.6	2	2	2.6
3	0.0			0.0			0.0			0.0		
4	0.0			2	4	3.4	2	2	2.6	2	2	2.6
5	0.0			2	2	2.6	2	2	3.8	2	2	2.6
6	2	2	2.6	2	2	2.6	2	2	2.6	2	3	2.4
7	0.0			2	2	2.6	2	2	2.6	2	2	2.6
8	2	2	2.6	2	2	2.6	2	2	2.6	2	2	5.1
9	2	2	2.6	2	2	3.8	2	2	3.8	2	2	3.8
10	2	2	2.6	2	4	2.3	2	4	2.3	2	3	3.7
11	0.0			2	2	2.6	2	2	2.6	2	2	2.6
12	0.0			2	2	2.6	2	4	3.4	2	2	2.6
13	0.0			2	2	2.6	2	4	3.4	2	2	2.6
14	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
15	2	2	2.6	2	2	3.8	2	4	5.7	2	2	3.8
16	2	2	2.6	2	2	3.8	2	2	3.8	2	2	3.8
17	0.0			2	4	2.3	2	4	3.4	2	2	2.6
18	2	2	2.6	2	4	2.3	2	4	2.3	2	4	2.3
19	2	2	2.6	2	3	2.4	2	4	3.4	2	2	2.6
20	2	4	2.3	2	2	2.6	2	2	2.6	2	2	3.8
21	2	2	2.6	2	2	3.8	2	2	3.8	2	2	2.6
22	0.0			2	2	3.8	2	2	3.8	2	2	2.6
23	2	2	2.6	2	2	3.8	2	2	2.6	2	2	2.6
24	2	2	2.6	2	4	2.3	2	2	3.8	2	2	2.6
25	2	2	2.6	2	4	2.3	2	4	2.3	2	2	2.6
26	0.0			2	2	2.6	2	2	2.6	2	2	2.6
27	0.0			2	2	2.6	2	2	3.8	0.0		
28	2	2	2.6	2	2	2.6	2	2	3.8	0.0		
29	0.0			2	2	2.6	2	2	2.6	0.0		
30	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
31	0.0			2	3	2.6	2	2	2.6	2	2	2.6

MICROSEISMIC ACTIVITY

AUGUST 1974

COMPONENT EW

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	2	2	2.1	2	4	1.9	2	2	2.1	2	2	2.1
2	2	2	3.2	2	4	1.9	2	4	2.9	2	2	2.1
3	0.0			0.0			2	4	1.9	2	4	2.9
4	0.0			2	2	2.1	2	2	3.2	2	4	2.9
5	2	2	2.1	2	2	2.1	2	2	2.1	2	2	2.1
6	0.0			2	2	2.1	2	2	2.1	2	2	2.1
7	0.0			2	2	2.1	2	2	3.2	2	2	2.1
8	0.0			2	2	2.1	2	4	1.9	2	4	1.9
9	0.0			0.0			2	4	1.9	2	2	2.1
10	0.0			0.0						2	2	2.1
11	0.0			0.0			0.0					
12	0.0			2	2	2.1	2	2	2.1	0.0		
13	2	2	2.1	2	2	2.1	2	2	2.1	2	4	2.9
14	2	2	2.1	2	2	2.1	2	2	2.1	0.0		
15	2	4	3.9	2	4	1.9	2	2	2.1	2	2	3.2
16	2	4	1.9	2	2	2.1	2	4	1.9	2	2	2.1
17	0.0			2	2	2.1	2	4	2.9	2	5	3.6
18	0.0			0.0			2	4	1.9	0.0		
19	0.0			2	4	2.9	2	2	2.1	0.0		
20	0.0			2	2	2.1	2	2	2.1	2	2	2.1
21	0.0			2	4	1.9	2	2	2.1	2	2	2.1
22	0.0			2	2	2.1	2	2	2.1	0.0		
23	0.0			2	2	2.1	2	2	2.1	2	2	2.1
24	0.0			0.0			2	2	2.1	2	2	3.2
25	0.0			2	2	2.1	2	2	2.1	0.0		
26	2	4	1.9	2	4	1.9	2	2	2.1	2	4	2.9
27	TT			2	2	2.1	2	2	2.1	TT		
28	2	2	2.1	2	4	1.9	2	4	1.9	2	2	2.1
29	0.0			0.0			0.0			0.0		
30	2	2	2.1	0.0			2	2	2.1	0.0		
31	0.0			2	4	1.9	2	4	2.9	0.0		

MICROSEISMIC ACTIVITY

AUGUST 1974

COMPONENT NS

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			2	4	2.3	2	4	2.3	2	2	2.6
2	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
3	TT			2	2	2.6	2	2	2.6	TT		
4	0.0			0.0			0.0			0.0		
5	0.0			2	2	2.6	2	2	2.6	0.0		
6	0.0			2	2	2.6	2	2	2.6	0.0		
7	0.0			2	2	2.6	2	2	2.6	2	2	2.6
8	0.0			0.0			2	2	2.6	2	2	3.8
9	0.0			0.0			2	2	2.6	0.0		
10	0.0			0.0			0.0			0.0		
11	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
12	0.0			2	2	2.6	2	2	2.6	0.0		
13	0.0			2	2	2.6	2	2	2.6	0.0		
14	2	2	2.6	2	2	2.6	2	2	2.6	0.0		
15	2	2	2.6	2	2	2.6	2	4	2.3	2	4	3.4
16	2	2	2.6	2	4	3.4	2	4	2.3	2	4	2.3
17	0.0			0.0			2	2	2.6	0.0		
18	0.0			0.0			2	9	10.9	0.0		
19	0.0			2	2	2.6	2	2	2.6	2	2	2.6
20	0.0			2	2	2.6	2	4	2.3	2	2	2.6
21	0.0			2	2	2.6	2	2	2.6	2	2	2.6
22	0.0			2	2	2.6	2	2	2.6	0.0		
23	0.0			2	2	2.6	2	2	2.6	2	2	2.6
24	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
25	0.0			0.0			2	2	2.6	2	2	2.6
26	0.0			2	2	2.6	2	2	2.6	2	2	2.6
27	0.0			2	2	2.6	2	4	2.3	0.0		
28	2	2	2.6	2	2	3.8	2	2	3.8	2	2	3.8
29	0.0			0.0			2	2	2.6	0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			2	2	2.6	2	2	2.6	2	2	2.6

MICROSEISMIC ACTIVITY

SEPTEMBER 1974

COMPONENT EW

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	0.0			0.0			2	4	2.9	2	4	2.9
2	...			2	4	1.9	2	4	3.9	0.0		
3	2	2	2.1	2	2	2.1	2	4	3.9	0.0		
4	0.0			2	4	4.9	2	4	2.9	0.0		
5	0.0			2	2	2.1	2	4	3.9	0.0		
6	2	2	3.2	2	2	2.1	2	2	3.2	2	2	3.2
7	2	2	2.1	2	4	1.9	2	4	1.9	2	4	1.9
8	0.0			2	2	2.1	2	2	3.2	2	2	3.2
9	2	2	2.1	2	2	2.1	2	2	3.2	0.0		
10	2	2	2.1	2	2	3.2	2	4	2.9	2	2	2.1
11	0.0			2	4	1.9	2	4	2.9	2	2	2.1
12	2	3	2.1	0.0			0.0			2	3	3.1
13	0.0			2	2	2.1	2	2	2.1	0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			2	3	3.1	2	2	3.2	0.0		
16	0.0			2	2	2.1	2	2	2.1	0.0		
17	0.0			2	2	2.1	2	2	2.1	0.0		
18	2	2	2.1	2	2	3.2	2	4	2.9	2	2	2.1
19	2	2	2.1	2	3	3.1	2	3	3.1	2	2	2.1
20	2	2	2.1	2	2	4.3	2	2	3.2	2	2	3.2
21	2	2	2.1	2	2	2.1	2	2	2.1	2	2	2.1
22	0.0			2	2	2.1	2	2	2.1	2	2	2.1
23	2	2	2.1	2	2	2.1	2	4	2.9	2	4	1.9
24	2	2	2.1	2	4	2.9	2	4	4.9	2	4	2.9
25	2	2	3.2	2	2	3.2	2	2	3.2	2	2	3.2
26	0.0			2	3	2.1	2	4	2.9	0.0		
27	2	4	2.9	2	4	1.9	2	4	2.9	2	2	2.1
28	2	4	2.9	2	4	2.9	2	4	3.9	2	4	1.9
29	0.0			2	4	4.9	2	4	7.8	2	2	2.1
30	0.0			2	2	2.1	2	2	2.1	0.0		

MICROSEISMIC ACTIVITY

SEPTEMBER 1974

COMPONENT NS

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	2	2	2.6	2	2	2.6	2	2	2.6	2	2	3.8
2	0.0			2	2	2.6	2	2	3.8	0.0		
3	0.0			0.0			2	2	3.8	0.0		
4	2	2	2.6	2	2	2.6	2	2	3.8	0.0		
5	0.0			2	2	2.6	2	2	2.6	0.0		
6	0.0			2	2	2.6	2	2	2.6	2	2	2.6
7	0.0			2	2	2.6	2	2	2.6	2	2	2.6
8	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
9	2	2	2.6	2	2	2.6	2	2	2.6	2	2	2.6
10	2	2	2.6	2	2	3.8	2	4	2.3	2	2	2.6
11	2	3	2.6	2	4	2.3	2	2	2.6	2	2	2.6
12	0.0			2	2	2.6	2	2	2.6	0.0		
13	0.0			2	2	2.6	2	2	2.6	2	2	2.6
14	0.0			0.0			0.0			0.0		
15	0.0			2	2	2.6	2	2	2.6	0.0		
16	0.0			2	2	2.6	2	2	2.6	2	2	2.6
17	0.0			2	2	2.6	2	2	2.6	2	2	3.8
18	2	2	2.6	2	2	2.6	2	2	3.8	2	2	2.6
19	2	2	3.8	2	4	4.5	2	4	4.5	2	2	3.8
20	2	2	2.6	2	2	3.8	2	2	5.1	2	2	5.1
21	2	2	2.6	2	3	4.9	2	3	3.7	2	2	2.6
22	0.0			2	4	2.3	2	4	2.3	0.0		
23	2	2	2.6	2	4	4.5	2	4	5.7	2	2	3.8
24	0.0			2	4	4.5	2	4	5.7	2	4	4.5
25	2	2	3.8	2	4	2.3	2	4	5.7	2	3	3.7
26	0.0			2	4	3.4	2	4	3.4	0.0		
27	2	2	2.6	2	2	2.6	2	2	2.6	2	4	3.4
28	2	4	3.4	2	4	3.4	2	4	4.5	2	2	2.6
29	0.0			2	4	3.4	2	4	5.7	2	2	2.6
30	0.0			2	2	2.6	2	2	2.6	0.0		

MICROSEISMIC ACTIVITY

OCTOBER 1974

COMPONENT EW

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			2	2	2.1	2	2	2.1	0.0		
2	0.0			2	2	2.1	2	2	2.1	0.0		
3	0.0			2	2	2.1	2	2	2.1	0.0		
4	0.0			2	2	2.1	2	2	2.1	0.0		
5	0.0			0.0			2	4	1.9	0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			2	4	1.9	2	4	1.9	0.0		
8	0.0			2	4	1.9	2	4	1.9	0.0		
9	0.0			2	4	1.9	2	4	1.9	0.0		
10	2	4	2.9	2	4	1.9	2	4	1.9	2	4	1.9
11	2	4	2.9	2	4	1.9	2	4	2.9	2	2	2.1
12	0.0			2	4	2.9	2	4	2.9	2	2	2.1
13	0.0			2	4	2.9	2	4	2.9	0.0		
14	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
15	2	2	2.1	2	4	2.9	2	4	2.9	2	2	2.1
16	2	4	2.9	2	4	2.9	2	4	2.9	2	2	2.1
17	2	4	1.9	2	4	3.9	2	4	1.9	2	4	1.9
18	0.0			2	4	1.9	2	4	1.9	2	2	2.1
19	2	4	1.9	2	4	2.9			
20	2	5	1.9	2	2	2.1	2	4	1.9	2	2	2.1
21	2	2	3.2	2	4	2.9	2	4	1.9	2	2	2.1
22	0.0			2	4	1.9	2	4	2.9	2	4	2.9
23	2	2	2.1	TT			2	4	2.9	2	4	1.9
24	2	4	1.9	2	4	4.9	2	4	4.9	2	4	2.9
25	2	4	1.9	2	4	2.9	2	4	3.9	2	4	1.9
26	2	4	1.9	2	4	3.9	2	4	3.9	2	4	2.9
27	2	4	1.9	2	4	2.9	2	4	1.9	2	4	1.9
28	2	4	1.9	2	4	2.9	2	4	1.9	2	4	1.9
29	2	2	2.1	2	2	3.2	2	2	2.1	2	2	2.1
30	2	2	2.1	2	2	2.1	2	4	2.9	2	2	2.1
31	2	2	2.1	2	4	1.9	2	4	1.9	2	2	2.1

MICROSEISMIC ACTIVITY

OCTOBER 1974

COMPONENT NS

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0						2	2	2.6	2	2	2.6
2	0.0						0.0			2	2	2.6
3	0.0						2	2	2.6	2	2	2.6
4	0.0						2	2	2.6	2	2	2.6
5	0.0						0.0			0.0		
6	0.0						0.0			2	2	2.6
7	0.0						2	4	2.3	2	4	2.3
8	0.0						2	4	2.3	2	4	2.3
9	0.0						2	2	2.6	2	2	2.6
10	0.0						2	4	3.4	2	4	3.4
11	0.0						2	2	2.6	2	2	2.6
12	0.0						2	2	2.6	2	2	2.6
13	0.0						2	2	2.6	2	2	2.6
14	0.0						2	4	2.3	2	4	2.3
15	2	2	2.6				2	4	2.3	2	4	3.4
16	2	2	2.6				2	4	2.3	2	4	2.3
17	2	2	3.8				2	4	3.4	2	4	3.4
18	0.0						2	4	2.3	2	2	2.6
19	2	2	2.6				TT			...		
20	0.0						2	2	2.6	2	2	2.6
21	2	2	3.8				2	2	2.6	2	4	2.3
22	2	2	2.6				2	4	2.3	2	4	3.4
23	0.0						TT			2	4	3.4
24	0.0						2	2	2.6	2	2	2.6
25	2	4	2.3				2	4	5.7	2	4	2.3
26	2	4	2.3				2	4	3.4	2	4	3.4
27	2	4	2.3				2	4	3.4	2	4	5.7
28	2	4	2.3				2	4	2.3	2	4	2.3
29	0.0						2	4	3.4	2	4	4.5
30	2	2	2.6				2	2	2.6	2	4	3.4
31	2	2	2.6				2	4	3.4	2	4	2.3

MICROSEISMIC ACTIVITY

NOVEMBER 1974

COMPONENT EW

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1		
2	0.0			2	4	1.9	2	4	1.9	0.0		
3	0.0			2	4	1.9	2	4	1.9	0.0		
4	2	4	2.9	2	4	4.9	2	4	2.9	2	4	2.9
5	2	4	2.9	2	4	2.9	2	2	2.1	2	2	2.1
6	2	2	2.1	2	4	2.9	2	2	2.1	2	2	2.1
7	2	4	2.9	2	4	1.9	2	4	2.9	2	2	2.1
8	2	2	3.2	2	4	4.9	2	4	4.9	2	2	2.1
9	2	2	2.1	2	4	4.9	2	2	3.2	2	4	2.9
10	2	2	2.1	2	4	2.9	2	4	2.9	2	4	2.9
11	2	2	2.1	2	4	2.9	2	4	4.9	2	4	1.9
12	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
13	2	4	2.9	2	4	4.9	2	4	4.9	2	4	2.9
14	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
15	2	4	1.9	2	4	1.9	2	4	2.9	2	4	1.9
16	0.0			2	4	1.9	2	4	1.9	0.0		
17	0.0			2	4	1.9	2	2	2.1	0.0		
18	0.0			2	2	2.1	2	4	1.9	0.0		
19	0.0			2	2	2.1	2	2	2.1	0.0		
20	0.0			2	2	2.1	2	4	1.9	2	2	2.1
21	0.0			2	4	2.9	2	4	2.9	0.0		
22	0.0			2	2	2.1	2	4	2.9	0.0		
23	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
24	2	2	2.1	2	2	3.2	2	2	3.2	2	2	2.1
25	2	4	1.9	2	4	1.9	2	4	1.9	2	2	2.1
26	2	4	2.9	2	4	2.9	2	4	2.9	2	2	2.1
27	2	2	2.1	2	2	3.2	2	4	2.9	2	2	2.1
28	0.0			2	4	2.9	2	4	2.9	0.0		
29	0.0			2	4	1.9	2	4	2.9	0.0		
30	0.0			2	2	2.1	2	4	4.9	0.0		

MICROSEISMIC ACTIVITY

NOVEMBER 1974

COMPONENT NS

GMT Date	00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			2	2	2.6	2	4	2.3	2	2	2.6
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			0.0			0.0			0.0		
6	2	2	2.6	2	4	2.3	2	4	3.4	2	4	2.3
7	2	2	2.6	2	4	2.3	2	4	2.3	2	2	2.6
8	0.0			2	4	2.3	2	4	3.4	2	2	2.6
9	2	2	2.6	2	4	3.4	2	4	5.7	2	4	3.4
10	2	2	3.8	2	2	3.8	2	2	2.6	2	2	2.6
11	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
12	2	4	2.3	2	4	3.4	2	4	5.7	2	4	2.3
13	2	4	3.4	2	4	5.7	2	4	6.8	2	4	3.4
14	2	4	2.3	2	4	5.7	2	4	3.4	2	4	3.4
15	2	4	2.3	2	4	5.7	2	4	5.7	2	4	3.4
16	0.0			2	4	3.4	2	4	3.4	0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			2	4	3.4	2	4	5.7	0.0		
19	2	2	2.6	2	4	2.3	2	4	2.3	2	2	2.6
20	0.0			2	4	3.4	2	4	3.4	0.0		
21	2	2	2.6	2	2	2.6	2	4	2.3	2	2	2.6
22	0.0			2	4	2.3	2	4	2.3	2	4	2.3
23	2	2	2.6	2	4	2.3	2	4	2.3	2	4	3.4
24	2	2	3.8	2	4	3.4	2	2	2.6	2	2	2.6
25	2	2	3.8	2	2	3.8	2	2	3.8	2	2	2.6
26	0.0			2	4	3.4	2	4	3.4	0.0		
27	2	4	2.3	2	4	3.4	2	4	3.4	0.0		
28	0.0			2	4	3.4	2	4	3.4	0.0		
29	0.0			2	2	2.6	2	4	2.3	0.0		
30	2	2	3.8	2	4	3.4	2	4	3.4	2	2	2.6

MICROSEISMIC ACTIVITY
COMPONENT EW

DECEMBER 1974

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	2	4	1.9	2	4	1.9	2	4	1.9	2	4	1.9
2	2	4	1.9	2	4	1.9	2	4	1.9	2	4	1.9
3	0.0			2	4	1.9	2	4	1.9	0.0		
4	0.0			2	4	1.9	2	4	1.9	0.0		
5	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
6	0.0			2	4	2.9	2	4	2.9	0.0		
7	0.0			2	4	1.9	2	2	2.1	0.0		
8	2	4	1.9	2	4	2.9	2	4	1.9	2	4	1.9
9	2	4	1.9	2	4	1.9	2	4	1.9	2	4	1.9
10	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
11	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
12	2	4	1.9	2	4	2.9	2	4	4.9	2	4	1.9
13	2	4	1.9	2	4	2.9	2	4	1.9	2	4	1.9
14	0.0			2	4	1.9	2	4	1.9	0.0		
15	0.0			2	2	2.1	2	2	2.1	0.0		
16	2	4	1.9	2	4	1.9	2	4	1.9	2	4	1.9
17	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
18	0.0			2	4	2.9	2	4	2.9	0.0		
19	2	4	2.9	2	4	4.9	2	4	4.9	2	4	2.9
20	2	4	2.9	2	4	4.9	2	4	4.9	2	4	2.9
21	2	4	2.9	2	4	4.9	2	4	4.9	2	4	2.9
22	2	4	2.9	2	4	2.9	2	4	2.9	2	4	2.9
23	2	4	1.9	2	4	4.9	2	4	4.9	2	4	1.9
24	2	4	2.9	2	4	4.9	2	4	4.9	2	4	2.9
25	2	2	2.1	2	4	1.9	2	4	1.9	2	2	2.1
26	2	4	1.9	2	4	2.9	2	4	2.9	2	4	1.9
27	2	2	2.1	2	4	2.9	2	4	2.9	2	2	2.1
28	2	2	2.1	2	4	1.9	2	4	1.9	2	4	1.9
29	0.0			0.0			2	2	2.1	0.0		
30	0.0			2	4	1.9	2	4	1.9	0.0		
31	2	4	1.9	2	2	2.1	2	2	2.1	2	4	2.9

MICROSEISMIC ACTIVITY

DECEMBER 1974

COMPONENT NS

GMT Date	K 00 h	T	A	K 06 h	T	A	K 12 h	T	A	K 18 h	T	A
1	2	4	2.3	2	4	2.3	2	4	2.3	2	4	2.3
2	2	4	2.3	2	4	2.3	2	4	2.3	2	4	2.3
3	0.0			2	4	2.3	2	4	2.3	0.0		
4	2	4	2.3	2	4	2.3	2	4	2.3	2	4	2.3
5	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
6	0.0			2	4	2.3	2	4	3.4	0.0		
7	0.0			2	4	2.3	2	4	2.3	0.0		
8	2	4	2.3	2	4	2.3	2	4	2.3	2	4	2.3
9	2	4	2.3	2	4	3.4	2	4	5.7	2	4	2.3
10	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
11	2	4	2.3	2	4	5.7	2	4	3.4	2	4	2.3
12	2	4	2.3	2	4	3.4	2	4	5.7	2	4	2.3
13	2	4	2.3	2	4	2.3	2	4	3.4	2	4	2.3
14	0.0			2	4	2.3	2	4	2.3	0.0		
15	0.0			0.0			0.0			0.0		
16	2	2	2.6	2	4	3.4	2	4	3.4	2	4	2.3
17	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
18	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
19	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
20	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
21	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
22	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
23	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
24	2	4	3.4	2	4	5.7	2	4	5.7	2	4	3.4
25	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
26	2	4	2.3	2	4	5.7	2	4	5.7	2	4	2.3
27	2	4	2.3	2	4	5.7	2	4	5.7	2	4	2.3
28	2	4	2.3	2	4	3.4	2	4	3.4	2	4	2.3
29	0.0			2	2	2.6	2	4	3.4	0.0		
30	2	2	2.6	2	4	2.3	2	4	3.4	2	2	2.6
31	0.0			2	4	2.3	2	4	3.4	0.0		

Macroseismic Observations
of Earthquakes on the Territory
of Slovakia in the Year 1974

Microseismic Observations 1974

Date	Origin time	Location	Latitude North	Longitude East	Focal depth /km	Shaken area /km ²	Epicentral Int./MCS	Felt at
Decem- ber 9	12 15	Czecho- slovakia- Austrian Border Region	48°20'	17°0'			5•5°	I = 4•5° Dev.Nová Ves, Vysoká pri Morave, Záhorška Bystrica /District of Bratislava/
								I = 4° Devin, Stupava /District of Bratislava/
								I = 3•5° Bratislava, Galanta
								I = 3° Podunajské Biskupice, Vajnory /District of Bratislava/

Earthquake Observations

at the Stations Bratislava

Srobárová

Hurbanovo

Skalnaté Pleso

No.	Date	St. Code	Phase	h	GMT m	s	RES O-C	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
1	JAN 1	BRA	SPKIKP	13 1	2	7.0	1.5							152.30	35.08	South of Fiji Islands 23.91 S 179.87 W H = 12 43 17.4 Depth = 527 km MB = 5.2 /ISC/
2	JAN 1	BRA	IP IAP	14 19	39.0	-0.5								79.06	95.29	Northern Sumatra 4.64 N 95.87 E H = 14 742.0 Depth = 76 km MB = 5.1 /ISC/
3	JAN 2	BRA	EP IPP ISKS ES EPS IAP ISKS IPS LMV SPC EPP/FF LMV	10 56	20.0	-0.1								103.44	251.41	Northern Chile 22.49 S 68.26 W H = 10 42 27.7 Depth = 83 km MB = 6.6 /ISC/
		SRO		11 0	24.0	-5.3								104.10	252.16	
				11 6	49.0	-1.9										
				11 8	4.0	6.7										
				11 9	49.0	1.1										
				10 56	53.0	-1.9										
				11 0	42.0	-2.0										
				11 6	57.0	3.1										
				11 9	53.0	-1.5										
				11 45	0.0											
				10 56	22.7	2.3										
				11 0	55.0	-1.3										
				11 45	0.0											
4	JAN 2	BRA	E	13 51	53.0											No determination of epicentre
5	JAN 2	SPC	IP IPP SRO BRA	14 53	29.8	-2.5		243	1.4				5.7	79.33	62.61	Northeast of Taiwan 26.02 N 124.38 E H = 14 41 47.8 Depth = 203 km MB = 5.5 /ISC/
6	JAN 3	SRO	EXP EAP	7 42	45.0	19.8								10.14	139.62	Turkey 39.74 N 26.82 E H = 7 39 48.0 Depth = 29 km MB = 4.2 /ISC/
7	JAN 3	BRA	EAP/HKP	11 34	48.0	-1.4								10.95	136.75	
8	JAN 3	BRA	EPG	22 28	12.0									137.95	47.86	New Hebrides 14.62 S 166.24 E H = 11 15 29.0 Depth = 33 km MB = 5.5 /ISC/
																No determination of epicentre

1974

9	JAN 5	BRA	EP EAP EPP	8 47	32.0	-0.0	4.4	1.0						101.29	264.24	Near Coast of Peru 12.28 S 76.30 W H = 8 35 50.2 Depth = 92 km MB = 6.1 /ISC/
10	JAN 5	BRA	EP EAP	14 13	3.0	0.1								79.89	5.36	For Islands, Aleutian Islands 52.05 N 171.46 W H = 14 0 56.3 Depth = 37 km MB = 5.4 /ISC/
11	JAN 5	BRA	EP	16 6	32.0	-1.3	42	1.5						84.30	337.02	Off Coast of Oregon 42.46 N 126.80 W H = 15 54 0.0 Depth = 11 km MB = 5.0 /ISC/
12	JAN 5	BRA	EP	23 41	49.0	-0.9								84.27	333.97	Off Coast of Oregon 42.47 N 126.73 W H = 23 29 19.0 Depth = 25 km MB = 5.0 /ISC/
13	JAN 6	BRA	EP SPC EP	14 42	23.0	-2.4								56.96	219.92	North of Ascension Island 1.46 S 15.45 W H = 14 32 40.0 Depth = 27 km MB = 5.2 /ISC/
14	JAN 6	SPC	EAP/HKP HRA EPKIKP	17 59	15.4	3.9								136.40	49.90	New Hebrides 14.87 S 167.18 E H = 17 39 44.5 Depth = 119 km MB = 5.5 /ISC/
15	JAN 7	BRA	IP IAP SPC EPP	15 30	16.0	5.7								26.02	117.38	Western Iran 33.26 N 47.95 E H = 15 24 40.4 Depth = 52 km MB = 5.0 /ISC/
16	JAN 8	SRO	IP IS BRA +IP SPC EPP	22 0	19.0	0.0								89.83	158.40	Atlantic-Indian Ridge 38.84 S 46.43 E H = 21 47 20.9 Depth = 24 km MB = 5.9 /ISC/
17	JAN 9	SPC+IP BRA +IP IXP		22 10	59.0	-8.5								73.65	244.95	Off East Coast of Kamchatka 51.75 N 159.82 E H = 2 49 48.0 Depth = 40 km MB = 5.3 /ISC/
18	JAN 9	BRA	E	13 11	31.0	-2.6								6.32	166.93	Albania 41.99 N 19.02 E H = 13 9 25.8 Depth = 54 km /ISC/

No.	Date	St. Code	Phase	h	GMT	S	RES	Z	E-W	N-S	MPV	MLH	Delta	Azimuth	Remarks
							O-C	A	T	A	T				
19	JAN 10	SPC BRA	EP EP	2 48	35.0	0.5						73.69	25.10	Off East Coast of Kamchatka	
				2 48	45.0	0.2						75.47	23.15	51.65 N 159.45 E	
												H = 2.37	3.2	Depth = 41 km	/ISC/
20	JAN 10	BRA	IP	5 30	38.1	0.2	40	1.0			5.5	75.64	23.04	Off East Coast of Kamchatka	
												H = 5.18	53.0	51.59 N 159.72 E	
												Depth = 24 km	MB = 5.2	Depth = 24 km	/ISC/
21	JAN 10	SPC SRO	IEPIKP IPP	9 10	34.7	3.7					135.88	49.96	New Hebrides		
			LIAV	9 11	30.0	-3.8						14.45	166.87	E	
			EPPIKP	10 9	0.0	1.5						H = 8	51	13.8	
			IPP	9 10	36.0	1.5						Depth = 36 km	MB = 6.3	Depth = 36 km	/ISC/
			E	9 12	38.0	12.3									
			IPPP	9 25	40.0										
			LIAV	10 8	0.0		32.8	22.0	39.4	22.0	7.2	138.12	46.95		
			BAKHKP	9 10	30.0	-5.0									
			EPPIKP	9 10	38.0	2.9									
			EPPIKP	9 11	3.0	16.3									
			EPPIKP	9 14	15.0	-1.2									
			ESPPAB	10 13	0.0	-0.1									
			LIAV												
22	JAN 10	BRA	IPG	11	2 39.0									No determination of epicentre	
23	JAN 11	SPC BRA	EP EPP	2 11	1.0	1.7					18.55	89.87	Hindu Kush Region		
				2 12	55.0	-1.0					40.67	86.37	36.42 N 70.84 E		
												H = 2	3	48.9	
												Depth = 141 km	MB = 4.8	Depth = 141 km	/ISC/
24	JAN 11	BRA	EPPIKP EPSSAB	5 55	55.0	0.2					137.73	47.16	New Hebrides		
				5 59	37.0	-1.0						14.19	166.54	E	
												H = 5	36	24.2	
												Depth = 37 km	MB = 5.7	Depth = 37 km	/ISC/
25	JAN 11	BRA	EPCCP	15 12	6.0	-4.0					78.90	207.90	South Atlantic Ridge		
												H = 14	59	59.4	
												Depth = 33 km	MB = 4.5	Depth = 33 km	/ISC/
26	JAN 13	BRA SRO	EP EP	21 41	50.0	-0.1					60.85	238.99	Central Mid-Atlantic Ridge		
				21 41	57.0	3.4					61.37	240.28	3.50 N 31.48 W		
												H = 21	31	42.0	
												Depth = 64 km	MB = 5.2	Depth = 64 km	/ISC/

27	JAN 14	BRA	TYP	20 43 34.0	-1.3	40	1.0			5.5	76.75	27.15	Kuril Islands 48° 79' N 154° 92' E H = 20 31 46° 6' Depth = 42 km	MB = 5.4	/TSC/
28	JAN 14	BRA	EPIKIP	23 51 17.0	0.2						131.40	49.99	Solomon Islands 9° 76' S 161° 45' E H = 23 32 11° 3' Depth = 63 km	MB = 5.5	/TSC/
29	JAN 15	BRA	EPIKIP	8 51 57.0	-0.1						159.22	41.22	Kermadec Islands Region 31.2° S 178.3° W H = 8 32 10° 1' Depth = 92 km	MB = 5.6	/TSC/
30	JAN 15	BRA	EP	19 52 57.0	1.5						24.86	323.90	Iceland 64° 50' N 17.80' W H = 19 47 34° 6' Depth = 33 km	MB = 4.6	/TSC/
31	JAN 17	BRA	E	17 9 13.0									No determination of epicentre		
32	JAN 18	BRA	EP	17 4 11.0	-0.2						73.89	280.25	Dominican Republic Region 18° 82' N 69° 34' W H = 16 52 43° 4' Depth = 82 km	MB = 5.1	/TSC/
33	JAN 18	BRA	EP	21 27 40.0	-1.0						88.40	210.18	South Atlantic Ridge 34.08 S 20.15 W H = 21 14 51° 2' Depth = 33 km	MB = 5.4	/TSC/
34	JAN 19	BRA	ES	2 51 39.0	-5.2						6.71	260.76	Switzerland 46° 68' N 7° 46' E H = 2 49 50° 3' Depth = 83 km		/TSC/
35	JAN 21	SRO	ESN	10 6 24.0	-5.1						3.32	209.64	Yugoslavia 44° 90' N 16° 00' E H = 10 4 54° 0' Depth = 0 km		/TSC/
36	JAN 21	BRA	EP	20 14 11.0	-2.7						9.36	186.89	St. Oly 38.90 N 15° 26' E H = 20 11 56° 0' Depth = 14 km		/TSC/

46	JAN	BRA	EPIKIP EAPK2	22 59 57.0 -0.6 23 0 9.0 2.0					147.27	17.45	Samma Islands Region 16°34' S 172°52' W H = 22 40 16.2 Depth = 10 km MB = 5.0	/TSC/
47	JAN	BRA	EP EAP EAP EPP LMV	5 48 51.0 -6.2 5 49 9.0 -2.2 5 49 9.0 -6.2 5 52 51.0 1.2 6 32 0.0					94.99	304.98	Near Coast of Michoacan, Mexico 18°38' N 103°40' W H = 5 35 28.5 Depth = 47 km MB = 5.2	/TSC/
48	JAN	BRA	EP	8 57 42.0 -1.7				43.49	271.60	North Atlantic Ridge 33°7' N 38°58' W H = 8 49 40.3 Depth = 23 km MB = 5.0	/TSC/	
49	JAN	BRA	EP IAP EP SRO	3 42 39.0 0.4 3 42 43.0 -2.0 3 42 41.0 -1.7				15.30	222.36	Algeria 36°06' N 4°43' E H = 3 39 31.0 Depth = 28 km MB = 4.7	/TSC/	
50	JAN	BRA	IPO	11 2 24.0				15.61	226.26	No determination of epicentre		
51	JAN	BRA	I BRA	19 15 28.0				109.65	78.80	Banda Sea 7°36' S 128°45' E H = 18 57 10.3 Depth = 127 km MB = 5.7	/TSC/	
52	JAN	BRA	IP	5 4 33.1 0.2				39.06	63.86	Eastern Kazakhstan SSR 49°59' N 78°11' E H = 4 57 2.6 Depth = 0 km MB = 5.4	/TSC/	
53	JAN	BRA	EPIKIP EPP	10 11 50.0 7.2 10 12 44.0 14.3				111.68	72.67	Aroe Islands Region 5°15' S 134°15' E H = 9 53 13.9 Depth = 51 km MB = 5.9	/TSC/	
54	JAN	BRA	EPN SPG ESS ESS	22 57 13.0 -0.5 22 57 23.0 8.1 22 57 32.0 -0.9 22 57 35.0 1.1				1.45	131.37	Hungary 47°20' N 18°70' E H = 22 56 46.0 Depth = 0 km	/TSC/	
55	JAN	BRA	EP	7 16 12.0 0.2				81.22	51.51	Kyushu, Japan 31°85' N 131°44' E H = 7 3 58.9 Depth = 43 km MB = 5.5	/TSC/	

60

No.	Date	St. Code	Phase	h	GMT	s	RES	Z	E-W	N-S	A	T	A	T	MPV	MLH	Delta	Azimuth	Remarks
							O-C												
56	JAN 31	BRA	E	—	10	34	13.0												No determination of epicentre
57	JAN 31	BRA	EAPKP2	15	31	26.0	4.4												F144 Islands Region H = 15° 10' 28.4° Depth = 580 km MB = 5.1 /TSC/
58	JAN 31	BRA	tIP	20	7	33.1	0.7												Fox Islands, Aleutian Islands H = 19° 55' 27.4° Depth = 42 km MB = 5.6 /TSC/
59	JAN 31	BRA	EP	20	28	0.0	-0.1												Fox Islands, Aleutian Islands H = 20° 15' 55.1° Depth = 44 km MB = 5.0 /TSC/
60	JAN 31	BRA	EPIKP	20	35	22.0	2.8												Solomon Islands 7.49° S 156.01° E H = 20° 16' 20.1° Depth = 41 km MB = 5.6 /TSC/
61	JAN 31	SRO	EAPKP	23	49	20.0	5.4												Solomon Islands 7.39° S 155.92° E H = 23° 30' 5.0° Depth = 32 km MB = 5.9 /TSC/
62	FEB 1	BRA	EP	0	3	41.0	-15.0												Turkey 38.55° N 27° 22° E H = 0° 1° 2.1° Depth = 24 km MB = 5.2 /TSC/
63	FEB 1	SRO	IPIKIP	3	31	34.0	1.1												Solomon Islands 54.55° S 155.92° E H = 3° 12' 31.0° Depth = 12 km MB = 6.2 /TSC/
64	FEB 1	BRA	IPG	11	49	43.0													No determination of epicentre
65	FEB 1	BRA	IP	15	16	21.0	0.6											Near East Coast of Kamchatka 54.38° N 162.02° E H = 15° 4' 49.9° Depth = 44 km MB = 5.3 /TSC/	

66	FEB 1	BRA	EPIKP	15	43	6.0	4.5												Solomon Islands 7.15° S 155.05° E H = 15° 24' 4.3° Depth = 44 km MB = 5.6 /TSC/
67	FEB 2	BRA	EP	3	44	55.0	-3.1												Azores Islands Region 35.65° N 34.51° W H = 3° 37' 26.0° Depth = 23 km MB = 4.9 /TSC/
68	FEB 2	BRA	EPIKP	12	3	7.0	16.7											Azores Islands Region 5.00° S 133.98° E H = 11° 44' 54.0° Depth = 41 km MB = 4.9 /TSC/	
69	FEB 2	BRA	EP	16	6	26.0	-0.6											Azores Islands Region 61.55° N 147.53° W H = 15° 55' 28.1° Depth = 45 km MB = 5.6 /TSC/	
70	FEB 2	BRA	IAP	20	9	36.0	-3.1											Sunda Strait 6.12° S 104.17° E H = 19° 56' 15.7° Depth = 63 km MB = 5.3 /TSC/	
71	FEB 3	BRA	EAP	9	2	41.0	-0.1											Arabian Sea 14.34° N 56.30° E H = 8° 54' 6.4° Depth = 15 km MB = 5.2 /TSC/	
72	FEB 3	SRO	IPOP	10	21	21.0	-0.2											Luzon, Philippine Islands 18.93° N 120.13° E H = 10° 8' 47.4° Depth = 21 km MB = 5.8 /TSC/	
73	FEB 4	BRA	ESN	14	3	5.0	-8.1											Australia 47.62° N 14.05° E H = 14° 2' 8.4° Depth = 5 km /TSC/	
74	FEB 4	SRO	EPIKP	20	29	34.0	-5.1											Solomon Islands 7.35° S 155.82° E H = 20° 10' 42.0° Depth = 46 km MB = 5.8 /TSC/	

No.	Date	St. Code	Phase	h	GMT	m	s	RES O-C	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
75	FEB 5	SFC	EPO	15	26	22.3	0.5								1.49	341.45	Poland	50.6°N 19.50°E
		ISG		15	26	43.6	2.4								2.89	31.84	H = 15.25 km	Depth = 0 km /ISC/
		BRA	EPM	15	26	42.0	1.8											
		ESB		15	27	20.0	-1.8											
		ESG		15	27	39.0	11.4											
		E		15	28	4.0												
76	FEB 5	SRO	EPPZ	22	47	2.0	2.8								145.99	27.89	Fiji Islands Region	
		BRA	EPPZ	22	47	6.0	-0.4								146.04	25.68	H = 177.50 km	Depth = 27.3 km MB = 5.1 /ISC/
77	FEB 6	BRA	+IPCP	4	16	12.0	-0.2	140	1.0					6.0	78.45	1.09	Unimak Islands Region	
		I		4	16	21.0	-0.8											
		EPP		4	17	5.0												
		+IP		4	17	47.0												
		LAV		4	19	3.0	-8.5											
		E		4	16	13.0	-1.0											
				4	52	0.0												
78	FEB 6	BRA	IPG	21	5	12.0								6.5	78.78	1.82		
79	FEB 8	BRA	EP	14	33	18.0	-0.1								74.89	17.38	Komandorsky Islands Region	
		EXP		14	33	28.0	-0.1											
		E		14	34	15.0												
80	FEB 8	BRA	IPKPZ	18	44	10.0	0.2								145.66	48.32	Loyalty Islands Region	
		IAPKLKP		18	44	19.0	1.1											
		I		18	44	44.0												
		E		18	45	30.0												
81	FEB 8	BRA	ES	20	16	3.0	10.2								8.32	245.59	France	
		E		20	17	27.0												
82	FEB 10	BRA	EPO	22	36	31.0	7.3								7.10	261.03	Switzerland	
		E		22	36	51.0	-5.2											
		ESN		22	37	7.0												
83	FEB 11	BRA	EP	1	53	54.0	-1.1								92.41	96.35	Sunda Strait	
		EAP		1	54	10.0	0.8											
		E		1	54	0.0												

84	FEB 13	BRA	EPP	23	55	53.0	0.3											
			EPP	23	56	9.0	16.3											
85	FEB 14	BRA	+EP	12	10	37.0	-0.1											
86	FEB 15	BRA	IPG	11	51	33.0												
87	FEB 16	BRA	EP	2	2	33.0	0.2								71.69	93.24	Andaman Islands Region	
		EXP		2	2	40.0	-1.1											
		EPP		2	5	12.0	-1.8											
		E		2	7	13.0												
88	FEB 16	BRA	EPIKP	5	58	55.0	-0.3											
89	FEB 19	SRO	EPOP	3	43	19.0	-1.1								88.82	70.51	Iuzon, Philippine Islands	
		BR	EP	3	43	19.0	-0.1											
		EPP		3	46	47.0	-5.8											
90	FEB 20	BRA	EP	16	23	4.0	1.6								73.85	281.26	Dominican Republic Region	
		EAP		16	23	14.0	0.5											
		E		16	24	30.0												
91	FEB 21	BRA	IPG	14	0	28.0												
92	FEB 22	SRO	IPCP	0	48	38.0	-2.0								82.47	47.93	Near S. Coast of Southern Honshu	
		IAP		0	50	10.0	5.1											
		ISCS		0	52	22.0	-3.0											
		BP		0	58	26.0	-3.0											
		IPIP		0	56	54.0	0.7											
		ISCS		0	48	38.0	0.7											
		IAP		0	50	7.0	0.2											
		IPPP		0	52	14.0	18.3											
		ISCS		0	58	28.0	-3.9											

No.	Date	St. Code	Phase	h m s	RES			Z		E-W		N-S		MPV	MLH	Delta Azimuth	Remarks	
					A	T	A	T	A	T	A	T	A	T				
93	FEB 22	BRA	EP	3 41 1.0	1.3										41.02	85.75	Afghanistan-USSR Border Region	
			EAP	3 41 23.0	2.0										36.56 N 71.48 E	H = 33.23 S	/ISC/	
			EPP	3 42 40.0	1.3										Depth = 89 km	MB = 5.4		
94	FEB 25	SRO	+TPCP	5 58 34.0	-2.3			1.0	1.5	16.0	2.0	16.0	5.4	5.6	78.49	33.95	Kurile Islands	
			LPH	5 58 28.0	0.3			40	1.0						H = 546 km	MB = 5.8	/ISC/	
			IP	5 58 40.0	-1.1										Depth = 46 km			
			IAP	6 0 17.0														
95	FEB 25	BRA	EPB	15 16 27.0	-3.0										1.18	15.95	Czechoslovakia	
			E	15 17 19.0											H = 1516 km	MB = 7.0	/ISC/	
															Depth = 0 km			
96	FEB 25	BRA	IP	6 35 19.0	1.1										74.09	22.27	Near East Coast of Kamchatka	
			IPop	6 35 28.0	-5.0										53.26 N 159.75 E	H = 62347.5	/ISC/	
															Depth = 69 km	MB = 5.5		
97	FEB 27	BRA	IPG	11 2 37.0												No determination of epicentre		
98	FEB 27	BRA	IP	17 12 39.0	-1.6			70	1.0						5.6	85.41	Southern Nevada N.E. Letir	
		SRO	EXP	17 12 45.0	0.6										86.17	325.05	H = 116.05 W	
															H/AEC/	0.1		
99	FEB 27	SRO	IP	18 14 9.0	2.9										81.88	97.08	Northern Sumatra	
		BRA	IAP	18 14 19.0	1.5										1.27 N 97.63 E	H = 18149.1	/ISC/	
			-IAP	18 14 22.0	0.5										H = 135917.1	MB = 6.0		
			I	18 15 25.0	0.1										Depth = 37 km			
			EPP	18 17 9.0	-1.6													
			E	18 18 17.0														
100	FEB 28	SPC	EPKIKP	14 19 14.5	-0.3										159.00	62.30	Off E. Coast of N. Island, N.Z.	
			IAPKP2	14 19 56.0	-0.4										36.72 S 176.99 E	H = 135917.1	/ISC/	
			EPP	14 23 40.0	4.7										H = 201536.8	MB = 5.7		
			IPKP2	14 20 0.0	-1.3										Depth = 12 km			
			I	14 20 48.0														
			IP	14 24 4.0	19.0													
			IPM	15 30 0.0	4.0													
			EPKIKP	14 19 18.0	0.7													
			EPP	14 23 45.0	-2.9													
			E															

101	FEB 28	BRA	ES	17 25 35.0	5.2										7.18	190.97	Italy	
			E	17 26 32.0											41.10 N 15.30 E	H = 172249.0	/ISC/	
				17 27 30.0											Depth = 178 km			
102	FEB 28	BRA	IP	19 31 26.0	0.8										79.26	2.38	Fox Islands, Aleutian Islands	
															52.90 N 166.76 W	H = 191917.0	/ISC/	
103	FEB 28	BRA	EPCP	20 28 37.0	1.3										90.58	284.45	Costa Rica	
															9.24 N 84.12 W	H = 201536.8	/ISC/	
104	FEB 28	BRA	IPop	20 33 10.0	-0.4										90.27	284.50	Costa Rica	
			IAP	20 33 12.0	3.2										9.51 N 83.95 W	H = 202010.4	/ISC/	
			EPP	20 35 30.0	-15.4										Depth = 34 km	MB = 5.8		
			IPCP	20 33 1.0	1.8													
			I	20 37 54.0														
			LMH	21 7 0.0														
			EPP	20 33 19.0	1.8													
			E	20 37 8.5	9.2													
105	FEB 28	BRA	EP	22 25 33.0	1.1										91.14	285.39		
106	MAR 1	BRA	IPG	0 14 44.0											92.00	288.88		
107	MAR 1	BRA	EPN	3 8 42.0	-9.7										34.06	354.44	North of Svalbard	
			EPP	3 9 5.0	-5.7										81.39 N 4.00 W	H = 221848.7	/ISC/	
			E	3 9 34.0	3.5										Depth = 33 km	MB = 4.0		
108	MAR 2	BRA	IPKP2	5 6 43.0	-1.2										7.92	163.60	Greece-Albania Border Region	
															40.53 N 20.03 E	H = 3652.5		
															Depth = 33 km			
109	MAR 2	BRA	IPG	10 47 15.0											161.37	59.81	Off East Coast of North Island	
															36.80 S 176.59 E	H = 44559.0	/ISC/	
110	MAR 2	BRA	IPG	15 11 40.0													No determination of epicentre	

No.	Date	St. Code	Phase	h	GMT m	s	RES	Z	E-W	N-S	A	T	A	T	MPV	MLH	Delta	Azimuth	Remarks
111	MAR 3	SRO BRA	IAP TAP	5	2	47.0	-0.1									53.63	82.53	Tibet	
				5	2	49.0	-3.6								54.38	81.57	H = 53° 17.3'	86.32 E	
																	Depth = 29 km	MB = 5.4	
112	MAR 3	SRO BRA	+TPOP TPOP ISKS LMH IAP IPCP I EPP	5	3	11.0	-1.7								82.35	43.97	Near East Coast of Honshu		
				5	6	19.0	0.6								35.57 N	140.75 E	H = 50° 45.1'		
				5	13	23.0	3.6										Depth = 49 km	MB = 5.6	
				5	34	0.0											/TSC/		
				5	3	10.0	1.3												
				5	3	13.0	-1.0												
				5	4	28.0													
				5	6	30.0	9.2												
113	MAR 3	BRA	EPKIKP EPKIZ	13	11	46.0	-0.8								82.66	43.18			
				13	12	33.0	-0.3												
114	MAR 3	SRO BRA	IAPKIKP IAPP IPS LMH IAPKIZ IAPKIKP I EPP	14	42	17.0	-1.5								161.38	59.49	Off East Coast of North Island		
				14	45	29.0	-0.7								26° 73' S	177° 08' E	H = 12° 51° 45.6'		
				14	56	11.0	4.5										/TSC/		
				15	39	0.0													
				14	42	13.0	0.1												
				14	42	14.0	0.4												
				14	43	13.0													
				14	45	27.0	5.1												
115	MAR 4	BRA	EP E E	2	19	0.0	7.0								143.91	49.71	New Hebrides		
				2	19	19.0									20° 01' S	169.77 E	H = 14° 22° 38.1'		
				2	20	38.0											Depth = 19 km	MB = 6.0	
				2	21	8.0											/TSC/		
116	MAR 4	SPC BRA	EPKIZ IAPKIKP EPKIZ E EAPKIZ	12	57	38.0	3.9								146.43	31.69	Fiji Region		
				12	59	8.5	8.2								148.35	27.29	H = 12° 38° 32.5'	16° 79' S 177.61 W	
				12	57	37.0	-4.9										Depth = 371 km	MB = 5.4	
				12	57	47.0	5.1												
				12	58	27.0													
				12	59	8.0	-2.0												
117	MAR 5	BRA	IPG	12	31	46.0													
118	MAR 6	BRA	IP IPC IAP	1	53	14.0	-0.1								89.74	288.17	Nicaragua		
				1	53	21.0	5.5										H = 12.33 N 66.42 W		
				1	53	43.0	-6.6										H = 1.40 N 30.4 W		
				1	53	21.0											Depth = 138 km	MB = 5.7	

No.	Date	St. Code	Phase	h	GMT	m	s	RES O-C	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
			I PP I PKSDP E	20	35	38.0	10.3										
127	MAR 10	BRA	E PW B PP	21	53	0.2	-3.6										
128	MAR 11	SRO	I P I AP I PP IS + I AP	11	48	58.5	2.5										
		SRO	I P I AP I PP IS + I AP	11	49	38.0	4.1										
		BRA	I AP I PP ESP E	11	49	43.0	0.7										
				11	52	39.0	6.1										
				11	49	48.0	1.0										
				11	52	11.0	8.4										
				12	0	21.0	2.5										
						25.0											
129	MAR 13	BRA	E P E	17	24	16.0	4.1										
130	MAR 14	BRA	E PKP2	10	32	8.0	1.6										
131	MAR 14	SRO	E APKHP I PP LMH E APKHP E PP	21	18	18.0	-0.0										
		BRA	I P E PKP2 E PKP2	21	21	6.0	0.2										
				22	19	20.0	1.0										
				21	18	20.0	0.7										
132	MAR 14	BRA	E PKP2	23	12	59.0	-3.8										
			E PKP2	23	13	21.0	18.2										
133	MAR 15	BRA	I PG	7	11	10.0	3.6										

1974

134	MAR 15	BRA	E P E	22	23	23.0	1.6										Kurile Islands Region
				22	24	8.0											49°41' N 158°37' E
																	H = 22 11 29.9
																	Depth = 40 km MB = 5.0 /ISC/
135	MAR 16	BRA	E PKP2	.1	23	4.0	2.6										Tonga
																	15°35' S 173°22' W
																	H = 1 3 24.0
																	Depth = 51 km MB = 5.7 /ISC/
136	MAR 17	BRA	I P I PCP E	4	9	29.0	0.5	111	1.0								Northern Sumatra
				4	10	37.0	2.8										1°25' N 98°52' E
				4	11	14.0											H = 3 57 7.2
																	Depth = 64 km MB = 5.7 /ISC/
137	MAR 18	BRA	+ I PKHP I APKHP ESPKDP + TAPKHP TAPCKP I LMH	11	15	42.0	-2.9										Samoa
				11	16	7.0	10.0										14.91° S 172.83° W
				11	16	40.0	-1.0										H = 10 56 12.3
				11	19	19.0	-1.0										Depth = 25 km MB = 5.9 /ISC/
				11	15	55.0	1.8										
				11	16	16.0	18.9										
				11	16	40.0											
				12	26	0.0											
138	MAR 21	BRA	E P	13	52	16.0	-1.8										Central Mid-Atlantic Ridge
																	0.16° S 18°26' W
																	H = 1 3 42 32.6
																	Depth = 36 km MB = 5.0 /ISC/
139	MAR 22	BRA	E P E AP	7	16	6.0	0.1										Ulambar Islands Region
				7	16	17.0	-0.0										53°67' N 163°44' W
																	H = 7 4 6.6
																	Depth = 36 km MB = 5.0 /ISC/
140	MAR 22	SRO	E P I SG	17	4	27.0	-1.3										Greece-Albania Border Region
				17	7	7	4.5										40°65' N 20°55' E
																	H = 7 2 20.0
																	Depth = 27 km MB = 4.5 /ISC/
141	MAR 22	SRO	E P BRA I P I PP	18	22	5.0	1.9										USSR-Mongolia Border Region
				18	22	8.0	0.9										49°84' N 50°98' E
				18	23	54.0	-2.4										Depth = 33 km MB = 5.4 /ISC/

No.	Date	St. Code	Phase	h	GMT m	s	RES 0-C	Z	A	T	A	T	E-W	A	T	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
142	MAR 22	BRA SRO	EP	19	16	12.0	0.5												27.17	337.83	Jan Mayen Island Region		
				19	16	19.0	1.7											27.81	337.54	H = 19.10	27.4	/TSC/	
																				Depth = 20 km			
143	MAR 22	BRA	ISG	21	31	48.9	-0.3												0.10	225.85	Austria-Czechoslovakia		
			ISN	21	31	57.0	-2.2													H = 21.31	46.0	/TSC/	
144	MAR 23	SRO	+EPKIKP	14	47	23.0	-0.0												152.02	38.07	South of Fiji Islands		
			EPK2	14	47	37.0	-7.3													H = 14.28	33.0		
			IPGSAB	14	49	23.0	0.5													Depth = 504 km	MB = 6.0	/TSC/	
			+EPKIKP	14	47	24.0	0.7													H = 14.28	17.00		
			IPKHKP	14	47	36.0	8.6													H = 21.31	46.0		
			+EPKHKP	14	49	26.0	-0.5																
			IPAKP2	14	49	43.0	3.0																
			I	14	50	50.0	54.0																
145	MAR 23	BRA	EPKHKP	15	13	2.0	3.6												151.85	37.06	South of Fiji Islands		
			IPAKHKP	15	15	9.0	6.0													H = 23.91	179.88		
			I																	H = 14.28	33.0		
			EP																	Depth = 504 km	MB = 6.0	/TSC/	
146	MAR 23	SPC	EPKIKP	15	31	6.0	-1.2												152.70	40.17	South of Fiji Islands		
			IPG	18	8	33.8	2.5													H = 23.91	179.01		
			EPB	18	8	54.0	-1.1												H = 14.54	7.7			
			ESN	18	9	25.0	0.0												Depth = 531 km				
			P	18	10	25.0													H = 14.54	7.7			
147	MAR 23	SPC	EPKIKP	18	8	18.5	2.5												1.21	336.80	Poland		
			IPG	18	8	54.0	-1.1												H = 50.30	19.50			
			EPB	18	9	25.0	0.0												H = 18.8	7.0			
			E	18	10	25.0													Depth = 0 km				
148	MAR 23	SPC	EAEPHKP	20	45	32.0	-1.2												145.56	47.17	New Hebrides Region		
			IPAKIKP	20	45	36.4	-1.2												H = 21.86	173.73			
			IPK2	20	45	35.0	-1.6												H = 20.25	52.0			
			I	20	45	45.0	-2.8												Depth = 33 km	MB = 5.7	/TSC/		
			EPK2	20	45	39.0	-0.3																
			I	20	46	14.0																	
			EP	20	47	28.0																	
			P	20	49	20.0	15.4																

149	MAR 24	SPC	EPFP2	0	31	21.0	-1.9												39.93	21.17	South of Fiji Islands	
			EPFP2	0	31	26.0	-5.7												H = 0	12.45		
			IAPKIKP	0	33	41.0	2.0												Depth = 595 km	MB = 5.2	/TSC/	
150	MAR 24	BRA	IP	4	35	1.0	2.1												103.53	53.18	South of Marianas	
			IXP	4	35	36.0	8.3												H = 12.57	144.24		
			IP	4	38	25.0	-0.3												H = 4.21	5.1		
			IP	4	39	18.0	-0.3												Depht = 74 km	MB = 5.8	/TSC/	
151	MAR 24	SPC	EAP	14	25	32.0	-0.4												54.02	88.01	Nepal	
			IP	14	25	39.0	2.8												H = 27.66	86.00		
			IP	14	27	55.0	13.5												H = 14.16	1.1		
			LMH	14	35	0.0													Depth = 20 km	MB = 5.4	/TSC/	
			IP	14	35	43.0	1.2															
			IP	14	25	43.0	5.6															
			IP	14	26	7.0	16.7															
			IP	14	26	7.0	11.6															
			EPP	14	27	43.0	-5.5															
152	MAR 25	BRA	EPK2	4	28	5.0	1.8												149.60	24.91	Tonga	
			EP	7	50	38.0	7.4												H = 19.50	175.96		
			P	7	50	43.0	-3.3												H = 8.8	9.9		
			E																Depth = 33 km	MB = 4.8	/TSC/	
153	MAR 25	BRA	EPCP	7	50	38.0	7.4												95.33	904.78	Near Coast of Mexico	
			EAP	7	50	43.0	-3.3												H = 18.25	103.52		
			I																H = 7.37	11.0		
			P																Depth = 56 km	MB = 4.7	/TSC/	
154	MAR 27	BRA	EPKIKP	3	27	15.0	2.4												157.05	29.45	Kermadec Islands Region	
			EPK2	3	27	46.0	0.5												H = 27.34	175.34		
			EAPK2	3	28	12.0	14.7												H = 7.21.4	38 km		
			I																			
155	MAR 27	BRA	IP	16	41	2.0	1.4												81.10	10.81	Andaman Islands	
			IXP	16	41	19.0	4.6												H = 50.66	179.60		
			IP	16	44	5.0	-2.9												H = 16.28	47.0		
			IP	16	41	2.0	0.4												Depth = 32 km	MB = 5.6	/TSC/	
156	MAR 28	BRA	EAP	21	35	12.0	-2.4												10.56	168.76	Sicily	
			EXP	21	35	31.0	3.7					</td										

1974																					
No.	Date	St. Code	Phase	h	GMT m	s	RES 0-C	Z	E-W	A	T	A	T	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks	
157	MAR 29	SRO BRA	IP IP	22	2	7.0	2.0										73.51 74.36	356.72 354.99	Kodiak Islands Region		
			IP	22	2	23.0	-0.6										57.56 N H = 21.50	153.92 W Depth = 23 km			
			IP	22	2	23.0	2.5										32.8	MB = 5.8	/ISC/		
		SRO	IP	22	2	14.0	1.0										Depth = 16 km	MB = 5.8			
			IP	22	2	23.0	0.0														
			IS	22	11	49.0	1.9														
158	APR 1	SRO	EPCP	22	14	12.0	-1.0										86.69 74.80	45.75 355.67	South of Honshu		
			IS	22	14	12.0	2.7										30.98 N H = 21.50	141.95 E Depth = 49.9 km			
			LMH	22	19	0.0	0.6										49.9	MB = 5.2	/ISC/		
			EPCP	22	3	39.0	0.6														
			EXP	22	3	50.0	7.1														
159	APR 2	BRA	IPKLP	4	21	35.7	4.6										125.81	54.65	Solomon Islands		
			IPKLP	4	21	45.0	0.3										6.97 S H = 4	155.32 E Depth = 34.0 km			
			EPAKLP	4	22	4.0	19.3														
160	APR 2	BRA	E	12	32	15.0															
161	APR 2	BRA	E	15	57	27.0															
162	APR 3	BRA	E	8	54	0.0															
163	APR 3	BRA	I	11	3	55.5															
164	APR 3	BRA	E	16	24	31.2															
165	APR 4	BRA	EP	7	49	7.0	-0.4										80.93	41.93	Honshu		
																	37.0 N H = 7	140.91 E Depth = 2.7 km			
166	APR 4	BRA	EFG	8	53	36.0															
167	APR 4	BRA	E	13	24	4.0															
168	APR 4	BRA	E	13	50	54.0															
				13	51	9.0															

169	APR 4	BRA	EAP	15	1	2.0	-0.8										66.70	214.02	South Atlantic Ridge		
																	12.54 S H = 1.4	14.65 W Depth = 50 km			
																	4.6	MB = 5.1	/ISC/		
170	APR 6	BRA	+IP	2	5	40.4	0.1										77.04	358.63	Alaska Peninsula		
			IPCP	2	5	52.0	0.4										55.15 N H = 1.53	160.57 W Depth = 8 km			
			EPCP	2	6	17.4	4.0										45.0	MB = 5.8	/ISC/		
			EPP	2	8	40.0	4.9														
			+IPCP	2	5	49.0	-4.2														
171	APR 6	BRA	E	3	2	51.0											138.10	47.23	New Hebrides		
																	14.53 S H = 2.1	166.69 E Depth = 16 km			
																	44.0	MB = 5.3	/ISC/		
172	APR 6	BRA	+IP	4	7	52.6	-0.5										77.14	358.59	Alaska Peninsula		
			IPCP	4	8	10.6	6.3										55.05 N H = 3.55	160.51 W Depth = 6 km			
			EPP	4	9	19.5	-7.0										57.0	MB = 6.0	/ISC/		
			+IP	4	7	55.0	-0.2														
			IPCP	4	8	11.0	5.1														
			I	4	14	55.0															
173	APR 6	BRA	EPP	8	10	47.0	2.4										111.81	31.92	New Hebrides		
			EPP	8	10	50.0	5.4										14.66 N H = 7	166.53 E Depth = 14 km			
																	23.0	MB = 5.2	/ISC/		
174	APR 6	BRA	E	12	15	44.0															
175	APR 6	SRO	EPP	20	27	11.0	0.5										40.61	84.62	Tadzhikistan		
			EP	20	27	17.0	0.2										84.23				
176	APR 6	BRA	E	22	4	11.0															
				22	4	28.0															
177	APR 7	BRA	EAP	1	0	32.0	-3.5										14.77	225.04	Algeria		
																	36.59 N H = 0	4.10 E Depth = 31 km			
																	57.0	MB = 4.6	/ISC/		
178	APR 7	SRO	EP	14	26	8.0	2.8														
			E	14	30	1.0															
			BAP	14	30	42.0															
			IAP	14	26	19.0	-2.7														
			E	14	27	24.0	2.3														
				14	29	24.0	-2.0														

No.	Date	St. Code	Phase	h m	GMT s	RES O-C	Z	E-W	N-S	A T	MPV	MLH	Delta	Azimuth	Remarks
179	APR 9	BRA	EPM	10	1	32.0	11.5						2.53	297.82	Czechoslovakia 49°30' N 12°48' E $\frac{h}{KHC} = 10$ 0 30.0 /KHC/
180	APR 9	BRA	IPG	11	0	42.5									No determination of epicentre
181	APR 9	BRA	IPG	11	11	30.5									No determination of epicentre
182	APR 9	BRA	E	11	29	42.0									No determination of epicentre
183	APR 9	BRA	E	11	35	42.0									No determination of epicentre
184	APR 9	SPC	IP SRO +IP BRA +IP IPGP EXP	13	22	54.0	1.9						75.54	34.91	Kurile Islands 45°38' N 148°41' E H = 13.11 23.6 Depth = 159 km MB = 5.4 /ISC/
185	APR 9	BRA	E	21	29	27.0							5.6	77.55	33.53
186	APR 10	BRA	EP	1	40	25.0	0.7						79.56	3.63	Fox Islands 52°53' N 165°75' W H = 1.28 16.3 Depth = 15 km MB = 4.6 /ISC/
187	APR 10	BRA	IPG	4	35	0.0									No determination of epicentre
188	APR 10	BRA	IPG ISG I	9	30	7.0									No determination of epicentre
189	APR 10	BRA	IPG	12	37	11.0									No determination of epicentre
190	APR 10	BRA	EPP EXP E EPP	22	55	57.0	0.5						91.33	293.46	Guatemala 14°32' N 91°54' W H = 22.43 0.5 Depth = 105 km MB = 5.4 /ISC/
				22	56	36.0	1.2								
				22	57	10.0									
				22	59	34.0	-2.4								

No.	Date	St. Code	Phase	h m	GMT s	RES O-C	Z	E-W	N-S	A T	MPV	MLH	Delta	Azimuth	Remarks
191	APR 11	BRA	E	11	59	50.0							76.50	39.10	No determination of epicentre
192	APR 11	SPC	EPCP EP EAP	21	49	43.0	-4.8						78.59	36.97	Hokkaido region 42°36' N 144°42' E H = 21.37 52.3 Depth = 72 km MB = 5.2 /ISC/
193	APR 12	BRA	IPG	12	28	49.4									No determination of epicentre
194	APR 12	BRA	EP	17	58	45.0	-0.9						96.63	60.18	Philippine Sea 14°27' N 134°37' E H = 1.45 18.7 Depth = 38 km MB = 5.5 /ISC/
195	APR 14	BRA	EPP2 EAKIKP	1	30	55.0	0.6						144.37	50.17	Loyalty Islands 20°56' S 168.53' E H = 1.11 16.9 Depth = 4 km /ISC/
196	APR 14	BRA	EPP SG	7	16	12.0	2.1						4.68	237.31	Northern Italy 45°50' N 11°50' E H = 7 14 47.0 Depth = 0 km /ISC/
197	APR 14	SRO	LMH BP EXP	11	32	0.0	0.5				0.8	83.41	58.30	Ryukyu Islands 26°04' N 128°35' E H = 10.43 31.9 Depth = 35 km MB = 5.1 /ISC/	
198	APR 14	SRO	LMH EPCP EXP	12	27	0.0	-2.1				0.4	16.0	5.2	83.50	58.29
199	APR 14	BRA	EAKIKP	18	44	34.0	-1.4						83.99	57.48	25.98 N 128.42 E H = 1.11 38 20.2 Depth = 25 km MB = 4.9 /ISC/
200	APR 14	BRA	E	22	8	28.0									No determination of epicentre
201	APR 15	BRA	E	0	53	45.0									

No.	Date	St. Code	Phase	h m	s	GMT			Z			E-W			N-S			MPV			Remarks			
						O-C	A	T	A	T	A	N-S	A	T	N-S	A	T	MPV						
202	APR 15	BRA	EPCP EXP	3	56	26.0	-1.7												84.96	67.39	Luzon 18.88 N 120.89 E			
				3	57	4.0	16.6													H = 3 43 54.0	MB = 5.2	/ISC/		
																				Depth = 59 km				
203	APR 15	BRA	ESG ESG SRO	21	30	14.0	2.7												4.97	220.59	Northern Italy 44.30 N 12.60 E			
				21	30	26.0	14.7											5.31	230.63	H = 21 27 27.0				
				21	53	10.0														Depth = 0 km		/ISC/		
204	APR 16	SPC	IPOCP IAP EP	11	35	20.0	5.0											86.38	73.19	Mindoro 13.80 N 120.71 E				
				11	35	58.0	3.7											88.68	70.82	H = 11 22 52.9				
				11	38	0.0													Depth = 124 km	MB = 5.3	/ISC/			
				11	35	33.0	-0.3													No determination of epicentre				
205	APR 16	BRA	E	16	44	38.0												40.52	271.20	North Atlantic Ridge 35.20 N 35.37 W				
																		32.214						
																		Depth = 28 km			/ISC/			
206	APR 17	BRA	EP	0	40	1.0	1.4											80.14	6.64	Andean Islands 51.66 N 17.44 W				
																		H = 0 39 40.9 W			/ISC/			
																		Depth = 46 km	MB = 4.8					
207	APR 17	BRA	EP	0	51	46.0	-1.7											3.31	168.51	Romania 45.94 N 21.19 E				
																		H = 1 31 34.4			/ISC/			
																		Depth = 46 km						
208	APR 17	SPC	EP IP IS E	1	32	40.6	-6.4											3.57	127.09					
				1	33	21.0																		
				1	32	28.4	-8.9																	
				1	33	28.4																		
				1	35	27.4	17.0																	
				1	36	6.0																		
				1	36	12.0																		
209	APR 17	BRA	E	8	54	34.0																		
210	APR 17	SPC	IP IXP IP	18	34	24.0	-0.5											35.72	145.87	Red Sea 40.30 N 40.30 E				
				18	34	43.2												36.16	140.38	H = 18 27 34.0				
				18	34	36.3	-1.9												Depth = 12 km	MB = 5.1	/ISC/			
				18	34	42.3	0.1																	
				18	35	35.3																		

211	APR 18	BRA	E	8	24	27.0	No determination of epicentre			No determination of epicentre			No determination of epicentre			No determination of epicentre			Remarks					
							O-C	A	T	O-C	A	T	N-S	A	T	MPV								
212	APR 18	BRA	E	11	6	33.0																		
213	APR 18	BRA	EPKKP2 EAPKIKP	14	35	20.0	-0.3											1.44.23	50.14	Loyalty Islands 20.73 S 168.46 E				
				14	35	41.0	9.7												H = 14 15 48.0		/ISC/			
																			Depth = 34 km					
214	APR 18	BRA	IPG	15	33	14.0																		
215	APR 18	BRA	EAPKIKP2 EAPKIKP	16	23	6.0	0.5											144.51	49.88	Loyalty Islands 20.89 S 168.76 E				
				16	23	20.0	9.2												H = 16 3 29.0		/ISC/			
216	APR 19	SRO BRA	EPKHKP IPKIKP IAPKIKP EPP	7	23	57.0	4.3											151.60	40.43	South of Fiji 24.08 S 178.59 E				
				7	23	50.8	1.4												H = 7 5 8.6		/ISC/			
				7	23	58.8	5.5												Depth = 594 km	MB = 5.6				
				7	26	13.8	3.9																	
				7	27	46.0	-0.3																	
217	APR 19	BRA	E	8	1	25.0												-3.13	326.98	Czechoslovakia 50.76 E 14.42 E				
																			H = 7 59 7.0		/PRU/			
218	APR 19	BRA	E	11	17	30.0																		
				11	17	44.0																		
				11	17	52.0																		
219	APR 20	SRO	EPKKP2 EPKIKP	2	20	39.0	0.2											147.28	49.71	Loyalty Islands Region 22.84 S 171.77 E				
				2	29	51.0														H = 2 1 3.0		/ISC/		
220	APR 20	BRA	EP	8	0	48.0	-1.5											76.72	94.42	Moabar Islands Region 6.96 N 94.92 E				
																				H = 7 49 5.0		/ISC/		
221	APR 20	SPC SRO	EPKKP2 EPKIKP EPKIKP2 E	8	46	54.7	2.1											1.15.47	50.74	Loyalty Islands Region 14.34 49.65 22.87 S 171.83 E				
				8	47	56.0	0.7																	
				8	47	26.0	2.0																	
				8	48	11.0	11.6																	

No.	Date	St. Code	Phase	h	GMT	m	s	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
								O-C	A	A	A	T	A	T				
222	APR 20	BRA	ESG E	9	0	18.0												No determination of epicentre
223	APR 21	SRO	IPFP2 LMH	1	13	13.0	-0.5			0.4	16.0	0.9	16.0	5.6	147.23	49.83	Loyalty Islands Region	
		BRA	IPFP2 LAFKIKP E	1	13	14.0	-1.0										H = 0	53°31'4"
				1	13	21.0	-1.0									Depth = 46 km	MB = 5.4	
224	APR 21	BRA	IPFP2 E	2	19	50.0	1.6								75.77	34.20	Sea of Okhotsk	/ISC/
				2	20	5.0	3.6									H = 2	8°0.0	
				2	23	6.0										Depth = 6 km	MB = 5.2	
225	APR 21	BRA	ES E	4	4	14.0	4.7								9.31	177.95	Southern Italy	
				4	6	12.0										H = 0	28°48' N 17°53' E	
																H = 4	0°4.1	
																Depth = 0 km	/ISC/	
226	APR 22	SRO	LMH	1	10	0.0				0.6	16.0	0.9	16.0	5.2	73.97	60.63	Eastern China	
																H = 0	31°42' N 119°26' E	
																Depth = 3 km	MB = 5.0	
227	APR 22	BRA	EP EAP	1	50	10.0	3.0								70.86	89.95	Andaman Islands	
				1	50	21.0	-0.7									H = 1	14°22' N 9°05' E	
																H = 1	38°53.7'	
																Depth = 52 km	MB = 4.8	
228	APR 22	SRO BRA	EKPK2 EPFP2 EAFKHP2 EPKSDP	2	25	4.0	-1.3								147.36	49.79	Loyalty Islands Region	/ISC/
				2	25	8.0	1.2									H = 2	22°93' S 171°78' E	
				2	26	11.0	-2.3									H = 2	5°23.5'	
				2	26	23.0	-2.1									Depth = 53 km	MB = 5.2	
229	APR 22	BRA	EPB ISB	12	26	31.0	0.5								0.92	197.03	Austria	
				12	26	44.4	1.2									H = 12	47°29' N 16°71' E	
				12	26	49.4	3.4									H = 12	26°12.0'	
				12	27	4.0	18.0									Depth = 33 km	/ISC/	
230	APR 22	SRO BRA	EP ESB	14	42	40.0	3.6								1.21	244.85	Central Mid-Atlantic Ridge	
																H = 14	2°0' N 41°40' W	
																H = 14	32°12.0'	
																Depth = 0 km	MB = 4.4	
																	/ISC/	

231	APR 23	BRA	EP EXP	15	36	44.5	-6.4								60.46	259.43	North Atlantic Ridge	
				15	37	3.0	2.7									H = 15	15°13' N 45°22' W	
232	APR 23	BRA	EP EXP	17	48	35.8	-9.7										Depth = 22 km	MB = 4.5
				17	49	9.2	9.0											
233	APR 24	BRA	IPN ISN	6	58	37.0	-3.3								60.05	245.15	Central Mid-Atlantic Ridge	
				6	59	4.0	-3.9									H = 17	7°35' N 35°33' W	
																H = 17	38°39.7'	
																Depth = 35 km	MB = 4.6	
234	APR 24	BRA SPC	I E	11	3	9.0									2.14	35.03	Czechoslovakia	
				11	4	5.0										H = 6	49°90' N 19°00' E	
235	APR 25	BRA SPC	EP EAP	0	12	28.0	-0.5								48.19	162.51	Uganda	
				0	12	35.5	-0.6								48.63	166.89	H = 0	
																H = 0	1°11' N 30°05' E	
																Depth = 11 km	MB = 4.9	
236	APR 25	BRA	I	8	53	36.0											No determination of epicentre	
237	APR 25	BRA	EP	16	1	1.0	0.6											
238	APR 25	BRA	E	7	3	12.0											No determination of epicentre	
239	APR 26	BRA	ESB	7	24	40.0	0.0											
240	APR 26	BRA	EP ISG	13	0	3.0											No determination of epicentre	
241	APR 26	BRA	EP	18	15	21.0	1.4											

No.	Date	St. Code	Phase	h	GMT m	RES O-C	Z		E-W		N-S		MLH	Delta Azimuth	Remarks
							A	T	A	T	A	T			
242	APR 27	SRO	I PKIKP	7	44 44.1	1.7							155.82	32.25	South of Tonga
			I PKPZ	7	45 10.1	-1.6							26.28	24 53.6	H = 7 Depth = 44 km MB = 6.1 /ISC/
		BRA	E PKIKP	7	49 46.1								70.73	21.25	Near East Coast of Kamchatka
			E PKPZ	7	52 18.1								19.43	55.90 N 162.84 E	
			E PKP	7	44 41.0	-1.5							72.41	10 1.5.6	Depth = 54 km MB = 5.0 /ISC/
243	APR 27	SPC	EP	10	12 20.5	2.6									No determination of epicentre
		BRA	EP	10	12 27.0	-0.9									
244	APR 29	SPC	E	17	38 41.0										
			I	17	39 4.0										
245	APR 29	SRO	IP	20	9 13.3	0.3							20.01	144.49	Egypt
		BRA	IPP	20	9 49.3	17.1							20.78	142.41	36.59 N 31.64 E
			EP	20	9 20.0	-0.0									H = 20 Depth = 12 km MB = 4.8 /ISC/
			IXP	20	9 33.0	7.2									
			E	20	10.0										
246	APR 29	BRA	EPOP	22	33 38.0	-0.8									
247	MAY 3	BRA	IPG	11	59 10.3										No determination of epicentre
248	MAY 4	SPC	EPPZ	9	28 56.0	-7.2							150.55	41.91	South of Fiji
		BRA	IEPKP	9	29 6.5	3.3							152.67	37.82	24.80 S 179.06 E
			EPKZ	9	28 50.0	1.2									H = 9 Depth = 530 km MB = 5.4 /ISC/
			EPIKP	9	29 12.0	-0.1									
			EPPZ	9	29 30.0	17.9									
249	MAY 4	SRO	IEPKP	13	5 44.4	4.0							140.04	40.90	New Hebrides Region
		BRA	IAPIKZ	13	8 8.4	-0.0							140.29	38.99	13.92 S 172.65 E
			EPKZ	13	5 46.0	-3.5									H = 12 Depth = 599 km MB = 5.4 /ISC/
			EAPIKP	13	5 52.0	2.5									
			EAKHKF	13	7 44.0	-14.3									
			EAPBZ	13	8 35.0	-0.7									
			EPPDF	13	9 13.0	-10.9									
250	MAY 4	BRA	EPCP	16	7 10.0	-0.4							90.87	282.37	South of Panama
			EAP	18	7 20.0	1.6									H = 17 Depth = 29 km MB = 5.0 /ISC/

251	MAY 4	SPC	EP	22	8 46.5	3.6							73.61	25.09	Off East Coast of Kamchatka
			EP	22	8 55.0	1.8							75.40	23.15	H = 21 Depth = 34 km MB = 4.7 /ISC/
			EXP	22	9 9.0	1.1									
252	MAY 5	SPC	EPCP	6	9 51.0	-2.7							80.41	67.14	Taiwan Region
		BRA	EPCP	6	10 4.0	0.2							82.73	64.77	22.93 N 121.44 E
			EXP	6	10 20.0	6.8									H = 5 Depth = 34 km MB = 5.5 /ISC/
253	MAY 5	BRA	EAPIKP	8	37 19.0	-1.8							138.62	45.70	New Hebrides
			EAPIKP	8	37 16.8										H = 8 Depth = 23 km MB = 5.0 /ISC/
			EAPBZ	8	38 9.0										
			EAPBZ	8	40 11.0										
254	MAY 5	SRO	EP	14	31 24.0	0.7							81.01	42.01	Near East Coast of Honshu
		BRA	IP	14	31 24.0	1.3							81.29	41.25	37.78 N 141.77 E
			E	14	31 26.0	1.3									H = 14 Depth = 50 km MB = 5.7 /ISC/
255	MAY 5	BRA	E	19	22 20.0	-0.1							77.40	31.94	Kurile Islands
			EXP	19	23 31.0	18.6									H = 19 Depth = 146 km MB = 4.9 /ISC/
256	MAY 6	BRA	IP	7	51 14.0	-18.5							3.15	239.43	Austria
			IS	7	51 25.0										H = 7 Depth = 50 km MB = 5.0 /ISC/
			E	7	52 9.0	17.7									
257	MAY 6	SPO	IAP	10	44 50.0	0.3							78.73	98.07	Northern Sumatra
		BRA	EP	10	44 33.0	-13.8							80.67	95.49	H = 10 Depth = 32 km MB = 5.7 /ISC/
			EAP	10	44 58.0	-2.2									
258	MAY 6	SPC	EAKHKP	11	58 0.0	-0.4							144.49	22.93	Tonga
		BRA	IKPKZ	11	58 2.0	0.3							146.18	18.28	H = 11 Depth = 38 km MB = 5.6 /ISC/
			EAKHKP	11	58 4.0	-1.2									
			EAKHKP	11	58 28.0	19.2									
259	MAY 7	SPC	LAKHKP	2	44 48.5	-1.9							144.54	30.00	Fiji Region
		BRA	IKPKZ	2	45 10.0	14.3							146.42	25.67	H = 12 Depth = 25 km MB = 5.4 /ISC/
			EAKHKP	2	45 4.0	-0.4									
			E	2	45 17.6	18.7									
260	MAY 8	BRA	E	14	43 0.0										No determination of epicentre
				14	43 46.0										

No.	Date	St. Code	Phase	h	GMT	Z	E-W	N-S	A	T	A	T	MPV	M/H	Delta Azimuth	Remarks
261	MAY 8	SRO	I.P.	23 45	52.0	1.8	3000	4.0					6.8	82.21	45.90	Near South Coast of Honshu 34°57' N 138°75' E H = 23.33 Depth = 10 km MB = 5.8 /TSC/
			I.PP	23 49	8.0	1.4										
			ISK	23 56	8.0	1.4										
			LMH	0 27	0.0											
		BRA	I.P.	23 45	50.7	-1.2										
			I.PCP	23 46	14.7	17.3										
			I.PP	23 49	5.7	2.5										
			BSGS	23 56	18.0	-3.0										
			LMH	0 29	0.0											
262	MAY 9	SRO	I.PK22	16 27	20.0	0.9								145.22	51.42	Loyalty Islands Region 21.66 S 169.67 E H = 16 Depth = 46 km MB = 5.2 /TSC/
		BRA	I.PK1P	16 27	18.2	8.1								145.62	49.38	
			I.PK1P	16 29	10.2											
263	MAY 10	SRO	EAP	0 10	4.0	-4.0								94.55	168.34	Prince Edward Islands Region 45.97 S 35.10 E H = 23 Depth = 33 km MB = 5.5 /TSC/
			EPP	0 12	56.0	8.1										
			IPS	0 22	40.0	10.3										
			LMH	0 52	0.0											
		BRA	EAP	0 10	11.0	0.6										
			EPP	0 13	48.0	-3.6										
264	MAY 10	BRA	I.PK1P	2 23	15.7	0.6								158.68	42.15	Kermadec Islands Region 30.94 S 179.39 W H = 2 Depth = 238 km MB = 5.3 /TSC/
			I.PK22	2 23	53.7	-0.5										
			EAP	2 24	10.0	-6.6										
265	MAY 10	BRA	EPCP	5 38	7.0	-0.9								83.45	55.75	Ryukyu Islands 27.48 N 129.54 E H = 5 Depth = 31 km MB = 5.0 /TSC/
			EXP	5 38	16.0	-0.7										
266	MAY 10	SRO	EPP	8 31	28.0	-7.5								113.26	230.54	Northern Easterl. Cordillera 4°30' S 102.07' W H = 8 Depth = 33 km MB = 5.9 /TSC/
			E	8 42	16.0											
267	MAY 10	SRO	EPN	11 24	32.0											No determination of epicentre
268	MAY 10	SFC	I.P.	19 36	2.3	2.0								65.30	74.97	Szechuan Province 28.19 N 103.98 E H = 19 Depth = 17 km MB = 5.8 /TSC/
			EPP	19 38	42.2	15.9										
			IMV	20 36	12.0	1.4										
		SRO	+I.P.	19 45	0.0	-1.4										
			IS	20 45	7.0	0.0										
		BRA	LMH	19 26	15.0	0.2										

No.	Date	St. Code	Phase	h	GMT	Z	E-W	N-S	A	T	A	T	MPV	M/H	Delta Azimuth	Remarks
269	MAY 11	SPC	I.PCP	0 57	28.0	3.9								99.14	76.40	Moluocca Passage 1.87 N 126.48 E H = 0 Depth = 43 km MB = 6.1 /TSC/
			I.PP	0 57	30.2	1.3								100.73	75.14	
			+I.P.	0 57	32.0	0.9										
			IS	1 27	12.0	10.7										
			LMH	0 57	0.0	-1.1										
		BRA	ECP	0 58	51.0	-1.1										
270	MAY 11	SPC	EPCP	6 27	45.0	2.7								96.86	49.18	Marianas Region 19.73 N 147.34 E H = 6 Depth = 26 km MB = 6.2 /TSC/
			EP	6 27	46.0	-4.3								98.74	47.77	
			I.PP	6 31	52.0	-2.1										
			EPS	6 40	56.0	7.8										
			LMH	6 7	8.0	0.8										
		BRA	EPCP	6 27	53.0	0.8										
			I.PP	6 31	56.0	-0.7										
271	MAY 11	SPC	EAP	21 7	4.0	0.6								99.98	76.36	Moluocca Passage 1.94 N 126.47 E H = 20 Depth = 53 km MB = 5.5 /TSC/
			EXP	21 7	16.0	2.4								100.67	75.10	
			ESKS	21 17	40.0	1.9										
			LMH	21 25	0.0											
		BRA	EXP	21 27	27.0	10.3										
272	MAY 12	BRA	EPP	10 17	36.0											No determination of epicentre
273	MAY 12	BRA	E	10 23	18.0									101.83	233.99	Northern Chile 19.57 S 69.05 W H = 10 Depth = 54.6 km MB = 5.6 /TSC/
			P	10 30	42.0	-9.4								102.52	234.77	
			SSKS	11.5												
274	MAY 12	BRA	ESN	19 50	36.0	-5.5								5.44	274.10	Germany 48.27 N 8.97 E H = 19 Depth = 48 km MB = 5.5 /TSC/
			ISG	19 51	66.5	-5.2										
			B	19 52	36.0	-1.2										
275	MAY 13	BRA	EPO	11 15	4.8											No determination of epicentre
276	MAY 13	SFC	IP	17 47	36.0	3.3								38.56	89.62	Hindu Kush Region 16.54 N 70.96 E H = 17 Depth = 40 km MB = 5.3 /TSC/
			IAP	17 48	19.0	4.4										
			IAP	17 48	40.0	3.0										
			+I.P.	17 47	45.5	1.9										
			IAP	17 48	27.6	1.8										
			IAP	17 50	9.6	7.8										
			ISS	17 56	39.6	7.8										

No.	Date	St. Code	Phase	GMT h	GMT m	GMT s	RES		Z		E-W		N-S		MPV	MLH	Delta	Azimuth	Remarks		
							O-C	A	T	A	T	A	T	A	T						
		BRA	IP	17	47	50.5	0.4									40.68	86.13				
			IPP	17	49	29.5	-0.8														
			I	17	50	31.5															
277	MAY 13	SPC	IP	19	7	29.2	-0.2									90.03	100.05	South West of Sumatra			
		SRO	IP	19	7	39.6	0.5									98.62	100.65 E	H = 18			
			IXS	19	18	39.6	2.3										18	54.29.0			
			LMH	19	54	0.0												Depth = 15 km	MB = 5.3	/ISC/	
			EFCP	19	7	39.0	-0.3														
278	MAY 13	SPC	EXP	19	43	50.0	-0.4									90.03	99.84	South West of Sumatra			
			EAP	19	43	56.0	-0.2									97.51	102.81 E	H = 19			
																	30.40.6	Depth = 25 km	MB = 5.1	/ISC/	
279	MAY 13	SPC	EFCP	20	16	11.5	5.1									98.54	75.64	Molucca Passage			
																	2.82 N 126.67 E				
																	H = 20	2.32.7			
																	58 km	MB = 5.3	/ISC/		
280	MAY 13	BRA	EPN	20	30	26.0	0.2									1.33	240.43	Austria			
			ESN	20	30	45.0	0.5										47.50 N 15.40 E				
																	H = 20	0.0	/VLR/		
																	Depth = 8 km				
281	MAY 14	BRA	E	7	31	3.0												No determination of epicentre			
		SPC	E	7	31	34.5															
282	MAY 15	BRA	EP	10	14	48.0	-4.2														
283	MAY 15	BRA	EP	10	43	2.0	-0.1														
		SPC	EP	10	43	18.0	0.2														
284	MAY 15	SPC	EFCP	12	26	3.0	0.5														
			EP	12	26	1.0	-0.4														
285	MAY 15	SPC	IP	13	16	6.0	3.4														
			+IP	13	16	10.0	1.0														

286	MAY 15	BRA	EP	13	53	15.0	0.9									27.39 N 44.37 W					
																H = 13	44.10.6				
																Depth = 33 km	MB = 4.5	/ISC/			
287	MAY 15	BRA	EP	14	8	19.0	-0.7									51.45	269.38	North Atlantic Ridge			
																27.37 N 44.46 W					
																H = 13	59.15.7				
																Depth = 34 km	MB = 4.7	/ISC/			
288	MAY 15	SPC	IP	19	11	29.6	1.0									74.23	27.79	Kurile Islands			
			EXS	19	21	21.5	-2.1									49.98 N 156.22 E					
			LMH	19	47	0.5										H = 18	59.56.1				
			EFCP	19	11	47.3	-4.0									Depth = 29 km	MB = 6.0	/ISC/			
			IS	19	21	27.3	10.9														
			BRA	19	49	0.0															
			IP	19	11	38.9	-0.3														
			LMH	19	41	0.0															
289	MAY 15	BRA	EP	19	38	38.0	2.1									51.40	269.34	North Atlantic Ridge			
																27.38 N 44.39 W					
																H = 19	29.32.2				
																Depth = 33 km	MB = 5.2	/ISC/			
290	MAY 15	BRA	E	23	30	43.0												No determination of epicentre			
291	MAY 16	BRA	IPG	15	34	4B.3															
			ISG	15	34	4B.8															
			IM	15	34	50.5															
			LMH	15	34	51.7															
292	MAY 16	BRA	E	17	24	11.0															
				17	25	6.0															
293	MAY 16	SPC	IP	20	11	57.4	0.4									87.09	50.64	Bonin Islands Region			
			EPP	20	12	46.0										27.15 N 140.18 E					
			IP	20	15	31.0	-0.3									H = 20	0.3.1				
			IP	20	12	3.8	-1.9									Depth = 489 km	MB = 5.3	/ISC/			
			BRA	IP	20	12	52.2														
			IP	20	15	47.0	-2.1														
294	MAY 16	BRA	EXP	23	21	10.0	-1.3									90.41	287.33	Near Coast of Micronesia.			
		SRQ	EXP	23	21	20.8	5.4									H = 23	86.22 W				
			LMH	23	25	0.0										H = 23	750.3				
																Depth = 65 km	MB = 5.4	/ISC/			

No.	Date	St. Code	Phase	h	GMT	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks	
				m	s	O-C	A	A	A	T	A	T					
295	MAY 17	BRA	EP BAP IPP	13 52	29.0	-6.3							40.68	86.17	Hindu Kush Region		
				13 53	20.0	0.4								36.52 N 70.95 E			
				13 54	16.0	0.3								H = 13 45.13.8			
														Depth = 208 km	MB = 5.2	/ISC/	
296	MAY 17	BRA	IP	14 33	6.0	-0.2							26.29	322.90	Iceland		
														64.64 N 21.23 W			
														H = 14 27.31.8			
														Depth = 32 km	MB = 5.0	/ISC/	
297	MAY 17	BRA	IPCP IAP EP IPP ISKS	15 35	41.0	1.1							99.63	264.07	Peru		
				15 36	10.0	3.3							100.40	264.88	H = 15 22 6.5		
				15 39	15.0									25.09 N 125.54 E			
				15 35	48.0	4.6								H = 17 11 55.0			
				15 36	44.0	-9.4								Depth = 100 km	MB = 5.9	/ISC/	
298	MAY 17	SRO	IP ESGS LMAH EP E	17	24	16.0	2.4						82.50	60.87	South Western Ryukyu Islands		
				17	34	40.0	1.9						83.03	60.07	H = 20 55.12.1		
				18	6	0.0								H = 11 57 55.0			
				17	24	17.0	0.7							Depth = 51 km	MB = 5.7	/ISC/	
299	MAY 17	SRO	+IPCP IAP IPP EP ISKS LMAH TAP E	21	8	16.0	1.3						93.77	95.53	JAVA		
				21	8	44.0	-6.3							6.55 S 106.77 E			
				21	12	4.0	0.0							H = 21 12.1			
				21	15	5.0								Depth = 141 km	MB = 5.8	/ISC/	
				21	18	46.0	12.3										
				22	1	0.0											
				21	8	19.0	0.6										
				21	6	55.0	-0.2										
				21	11	3.0											
				21	13	8.0											
300	MAY 18	BRA	E E	9	0	6.0									No determination of epicentre		
				9	0	18.0											
301	MAY 18	BRA	IPKIKP	12	17	50.0	1.7						159.81	41.43	Kermadec Islands Region		
														31.77 S 178.45 W			
302	MAY 19	BRA	E	0	23	45.0									H = 11 57 55.0		/ISC/
303	MAY 19	BRA	EPG ISG	14	59	25.0									Depth = 48 km		
				14	59	39.0											

304	MAY 19	SRO	IP IPCP BP EXP IXP EPCP ESS	22	4	21.9	0.5	1000	2.0				13.69	151.14	Crete		
				22	7	16.0	3.0							35.47 N 26.31 E			
				22	9	44.0	-0.6							H = 22 1 9.7			
				22	4	30.0	-0.6							Depth = 84 km	MB = 4.8	/ISC/	
				22	4	50.0	-5.4										
				22	5	14.0	18.6										
				22	9	30.0	-11.9										
				22	4	30.0	1.9										
305	MAY 20	BRA	EXP	0	26	20.0	-2.1						14.42	159.73	Off East Coast of Kamchatka		
														51.64 N 159.30 E			
														H = 0 14 23.0			
														Depth = 44 km	MB = 4.5	/ISC/	
306	MAY 20	SPC	BP BRA	10	50	14.8	6.8						75.44	23.24	Eastern Gulf of Aden		
				10	50	15.0	0.3							13.06 N 50.34 E			
				7	46	15.0	-1.3							H = 10 42 7.0			
				7	46	15.0	8.7							Depth = 60 km	MB = 5.1	/ISC/	
307	MAY 21	BRA	EPG ISG ISG	7	44	35.0	-7.2						6.43	268.46	Switzerland		
				7	46	15.0	-1.3							47.60 N 7.59 E			
				7	47	6.0	8.7							H = 7 42 34.0			
				7	47	6.0								Depth = 5 km			
308	MAY 21	BRA	IPG	11	5	17.3									No determination of epicentre		
309	MAY 21	BRA	IPG	15	45	3.0									No determination of epicentre		
310	MAY 22	BRA	E	16	31	7.0									No determination of epicentre		
311	MAY 22	BRA	E	18	50	20.0									No determination of epicentre		
				18	50	34.2											
				18	50	38.2											
				18	50	6.0											
312	MAY 23	BRA	EP IAP	11	17	28.0	-7.8						51.46	269.32	North Atlantic Ridge		
				11	17	35.4	-4.9							27.33 N 44.43 W			
				11	17	35.4	-4.9							H = 11 8 29.0			
				11	17	35.4	-4.9							Depth = 15 km	MB = 5.1	/ISC/	
313	MAY 23	SRO	EP I IP BRA	19	52	52.0	9.0						4.48	191.59	Yugoslavia		
				19	54	0.0								H = 19 51 30.9			
				19	52	28.0								Depth = 39 km		/ISC/	
				19	52	41.3	-5.8										
				19	53	10.3											
				19	54	25.3											

No.	Date	St. Code	Phase	h	GMT	s	RES O-C	Z		E-W		N-S		MPV	MLH	Delta	Azimuth	Remarks
								A	T	A	T	A	T					
314	MAY 24	SPC BRA	EAP EP	20 38	11.0	-3.6									72.56	24.22		
				20	38	13.0	2.0								77.32	22.32	Near East Coast of Kamchatka	
315	MAY 25	BRA	EPP EAP	0 43	39.0	2.3									53.03	112.85	E	
				9	43	50.0	-1.7								H = 20	26	36.8	
															Depth = 48 km	MB = 5.0	/ISC/	
316	MAY 26	SRO	IPPKKP IPP	1 51	40.0	-1.7									83.43	55.63	Ryukyu Islands	
			ISS	1 54	48.0	1.6									H = 9	57	129.63	E
			LMH	2 13	40.0	13.5									H = 9	31	13.5	
			EAPKXP	2 43	0.0										Depth = 92 km	MB = 4.8	/ISC/	
317	MAY 26	BRA	EAPKXP E	1 51	45.0	-1.6									140.96	50.21	New Hebrides	
				2	13	24.0									H = 1	32	11.6	E
				2	43	0.0									Depth = 13 km	MB = 5.8	/ISC/	
318	MAY 26	SRO	EXP I EP	8 56	4.0	0.2									141.26	48.42	New Hebrides	
			EP	8	56	40.0									H = 8	36	29.8	
															Depth = 8 km	MB = 4.9	/ISC/	
319	MAY 27	SRO	+IXP I EP	4 53	28.0	-1.1									10.78	168.24	Southern Greece	
			LMH	5 29	0.0										37.22	21.05	E	
			EP	4	53	8.0	2.2								H = 13	6	50.0	
320	MAY 27	BRA	IPG IPG IPN IPN ISG	11 23	32.9	-3.8									11.32	163.75	/ISC/	
			IPG	11	23	32.9	-2.8								H = 11	23	18.0	
			IPG	11	23	36.4	-0.3								Depth = 60 km	MB = 5.6	/ISC/	
321	MAY 27	BRA	EP IPCP EP	14 13	2.0	0.1									0.94	240.40	Austria	
			IPCP	14	13	6.6	-15.7								H = 4	41	25.1	
			EP	14	13	18.0	-0.7								H = 11	23	18.0	
322	MAY 28	BRA	E E	7 23	52.0										75.69	24.75	Kurdle Islands	
			E	7	25	11.0									50.78	15.38	E	
			E	7	25	45.0									H = 47	10	15.90	
															Depth = 60 km	MB = 5.6	/ISC/	
															No determination of epicentre			

No.	Date	St. Code	Phase	h	GMT	s	RES O-C	Z		E-W		N-S		MPV	MLH	Delta	Azimuth	Remarks	
								A	T	A	T	A	T						
323	MAY 28	BRA	E	8	1	37.0												No determination of epicentre	
324	MAY 28	BRA	E	11	53	30.0												No determination of epicentre	
325	MAY 29	SRO	EP BRA	4 26	40.0	1.1									54.98	125.15	Carlsberg Ridge		
			EP BRA	4	26	45.0	-0.1								55.85	124.13	6.13	N 60.65	
			EP BRA	4	27	11.0	11.2									H = 4	17	8.8	
326	MAY 29	BRA	E	8	53	26.0												No determination of epicentre	
327	MAY 29	BRA	ESSG	11	1	55.0	8.9								3.21	310.24	Czechoslovakia		
			ESSG	11	1	55.0	8.9									50.18	N 13.29	E	
			E	11	1	55.0	8.9									H = 11	0	0.0	
328	MAY 29	BRA	IPG SPC	12 1	6.7													No determination of epicentre	
329	MAY 29	BRA	E	12 11	56.0													No determination of epicentre	
330	MAY 30	SRO	E	15	45	16.0												No determination of epicentre	
331	MAY 31	BRA	EP	3	25	8.0	-3.1								78.59	0.56	Unimak Island Region		
			E	3	25	8.0	-3.1									53.62	N 163.81	W	
																H = 3	13	11.3	
332	MAY 31	SPC	IP IPP BRA	3 34	13.4	1.2									37.22	65.92	Bastryk Kazakhstan		
			IP IPP BRA	3 34	38.0	-1.0										49.91	N 78.11	E	
			IP IPP BRA	3 34	30.8	-0.9										H = 3	26	57.4	
				3	35	8.8										Depth = 34 km	MB = 5.9	/ISC/	
333	MAY 31	BRA	EAPKP2 SRO	8	0	31.0	11.2								148.32	19.77	Tonga Region		
			EAPKP2 E	8	0	28.0	7.9									17.30	S 172.40	W	
			E	8	1	28.0										H = 7	40	19.0	
				8	1	28.0										Depth = 53 km		/ISC/	
334	MAY 31	BRA	EPP E	9	9	36.5												No determination of epicentre	
			E	9	9	32.0													

No.	Date	St. Code	Phase	h	GMT m	s	RES O-C	Z		E-W		N-S		MPV	MLH	Delta	Azimuth	Remarks	
								A	T	A	T	A	T						
335	MAY 31	BRA	EP EFCP	9	22	15.0	0.5								74.49	22.24	Off East Coast of Kamchatka		
															52.91 N 160.08 E				
															H = 910	39.1	MB = 5.0	/ISC/	
															Depth = 46 km				
336	MAY 31	BRA	EP EAP	11	24	34.0	-1.2								86.51	140.04	Atlantic Indian Ridge		
															H = 111	63.57 E			
															H = 111	53.0	MB = 5.1	/ISC/	
															Depth = 24 km				
337	MAY 31	BRA +IP		13	0	37.0												No determination of epicentre	
338	MAY 31	BRA	EFCP EAP	14	18	12.0	2.8								91.66	315.66	Gulf of California		
															27.36 N 111.13 W				
															H = 114	51.9	MB = 5.4	/ISC/	
															Depth = 26 km				
339	JUN 1	BRA	E		2	2	30.0											No determination of epicentre	
340	JUN 1	BRA	EP		3	38	14.0											No determination of epicentre	
341	JUN 1	BRA	EPB IPG	11	4	32.4												No determination of epicentre	
342	JUN 1	BRA	E		22	49	31.0											No determination of epicentre	
343	JUN 2	BRA	E		1	13	23.0											No determination of epicentre	
344	JUN 2	BRA	E		1	19	47.0											No determination of epicentre	
345	JUN 2	BRA	IPN ITPB	5	27	4.6	0.2								5.58	184.60	Adriatic Sea		
															H = 42.0 N 16.50 E				
															H = 25.25 N 38.0 E				
															Depth = 0 km				

346	JUN 2	BRA	IAPKIKP IAPKIP2	12	37	9.8	-0.2								147.56	18.32	Tengen		
				12	37	12.3	0.4								H = 16.3 S 173.03 W				
				12	39	44.8									H = 1217.24.0				
				12	37	7.0									Depth = 15 km				
				12	37	10.4	0.3												
347	JUN 2	BRA	EP		23	16	34.0	-0.5							147.63	20.61	Colombia		
															5.51 N 76.83 W				
															H = 223.44.4				
															Depth = 37 km				
348	JUN 3	SPC	EP IPP	11	52	57.0	5.7								38.62	88.88	Afghanistan-USSR Border Region		
				11	54	22.0	-4.1								36.89 N 71.35 E				
				11	53	7.0	4.5								H = 111.4536.9				
				11	54	39.0	-0.9								Depth = 105 km				
				11	53	8.0	-0.9												
				11	54	52.0	4.3								40.75	85.42			
				11	55	36.0													
				11	57	12.0													
349	JUN 3	BRA	E		15	41	50.0										No determination of epicentre		
350	JUN 3	BRA	EPP		23	44	25.0	-4.8							39.68	82.22	Tadzhikistan		
															39.21 N 71.62 E				
															H = 2335.23.8				
															Depth = 38 km				
351	JUN 4	SPC	IPPKP2 BRA	4	33	22.0	1.3								144.52	25.92	Tonga		
				4	34	38.0	13.1								H = 15.89 S 175.04 W				
				4	36	38.0	-4.1								H = 414.13.8				
				4	33	24.0	1.5								Depth = 256 km				
				4	32	24.0	6.5												
				4	34	39.0	11.0												
				4	36	42.0	10.6												
				4	44	29.0													
				4	34	55.0	0.5												
				4	36	23.0	-7.8												
				4	40	7.0													
				4	43	55.0													
				4	43	55.0													
352	JUN 4	BRA	EP		15	24	23.0	0.3							61.92	253.96	North Atlantic Ridge		
															10.82 N 42.56 W				
															H = 15.14.6.0				
															Depth = 51 km				

No.	Date	St. Code	Phase	h	GMT m	RES O-C	Z			E-W			N-S			MPV	MLH	Delta Azimuth	Remarks
							A	T	A	T	A	T	A	T	A				
353	JUN 4	BRA	E	19	37	20.0												No determination of epicentre	
		SPC	E	19	37	32.0													
354	JUN 5	SPC	EAPKHP	0	0	23.5	-0.5												
		BRA	EAPKHP	0	0	30.0	1.3												
			EAPK2	0	0	52.0	15.0												
355	JUN 5	BRA	E	3	48	6.0												No determination of epicentre	
356	JUN 5	BRA	E	11	21	45.0													
				11	22	3.0													
357	JUN 5	SPC	EAPKHP	22	20	34.0	-0.2												
		BRA	EPK2	22	20	29.0	1.6												
			TAPIKP	22	20	42.0	4.8												
358	JUN 6	BRA	E	16	14	40.0												No determination of epicentre	
359	JUN 6	SPC	EP	17	13	35.0	2.5												
360	JUN 6	BRA	E	18	10	46.0													
361	JUN 6	SPC	IP	19	10	32.2	2.9												
		SRO	IAP	19	11	18.5	4.4												
			EP	19	10	40.0	-0.2												
			I	19	13	25.0													
362	JUN 7	BRA	E	2	8	22.0												No determination of epicentre	
363	JUN 7	BRA	EAPKHP	7	7	30.0	7.6												
		SRO	EAPKHP	7	7	18.3	0.0												
			LMH	8	7	50.3													
				8	7	0.0													

No.	Date	St. Code	Phase	h	GMT m	RES O-C	Z			E-W			N-S			MPV	MLH	Delta Azimuth	Remarks
							A	T	A	T	A	T	A	T	A				
364	JUN 7	BRA	E	11	39	42.0												No determination of epicentre	
			I	11	40	55.5													
			E	11	41	56.5													
			I	11	42	5.0													
365	JUN 7	BRA	EP	13	12	57.0												No determination of epicentre	
			E	13	13	16.0													
366	JUN 7	SRO	EXP	14	48	54.0	-5.6											No determination of epicentre	
			I	14	52	44.7	5.4												
			EP	14	48	56.0	5.4												
			E	14	49	43.0													
			E	14	50	5.0													
			E	14	52	13.0													
367	JUN 7	BRA	EP	18	2	24.0	1.2											No determination of epicentre	
			EXP	18	2	43.0	5.6												
368	JUN 7	BRA	EAP	23	2	7.0	-3.3											No determination of epicentre	
			EXP	23	2	15.0	0.8												
			E	23	3	6.0													
			SRO	23	12	38.0	-1.7												
			ESKS	23	36	0.0	4.3												
			SPC	23	2	12.0	0.0												
			EXP	23	2	21.5	-1.0												
369	JUN 8	BRA	E	8	54	5.0												No determination of epicentre	
			I	8	54	25.0													
370	JUN 8	SRO	I	11	53	6.0												No determination of epicentre	
			E	11	53	15.0													
			E	11	54	31.0													
			E	11	54	30.0													
371	JUN 8	BRA	E	16	54	28.0												No determination of epicentre	
372	JUN 8	SRO	EAPKHP	17	34	30.0	6.5											No determination of epicentre	
			EP	17	36	30.0	11.7												
			LAH	18	21	0.0													
			EPAKHP	17	34	30.0	5.6												
			EAPKHP	17	34	51.0	13.5												
			EAPK2	17	36	53.0													
373	JUN 8	BRA	EAPKHP	22	15	15.0	1.3											No determination of epicentre	

No.	Date	St. Code	Phase	h	GMT	s	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks	
					O-C			A	A	T	A	T						
374	JUN 9	SPC	EPGP2 BAFKP2	3 21	13.0	1.3								145.72	22.22	Samoa Region		
		BRA	BAFKP	3 21	30.0	10.3										16.45 S 112.58 W		
			EPGP2	3 22	9.0	-0.2										H = 3 1 33 km	MB = 5.0 /ISC/	
			BAFKP2	3 21	18.0	-0.2											Depth = 33 km	
			I	3 21	36.7	7.9												
		SRO	LAHKHP	3 22	3.7													
			LAHKP2	3 23	25.0	-0.4												
			I	3 21	20.0	14.9												
375	JUN 9.	BRA	EPGP EAP	14 29	44.0	0.2									99.68	272.17	Near Coast of Northern Peru	
			EAP	14 29	54.0	-1.0										5.77 S 81.00 W		
			E	14 30	45.0											H = 14 16 2.4		
																Depth = 36 km	MB = 5.6 /ISC/	
376	JUN 9	BRA	E	16 43	15.0												No determination of epicentre	
377	JUN 9	BRA	E	20 18	12.0												No determination of epicentre	
378	JUN 10	BRA	E	11 13	15.0												No determination of epicentre	
379	JUN 10	BRA	E	11 13	17.8												No determination of epicentre	
380	JUN 10	BRA	EPM ISG	11 53	9.0	-0.5									2.77	321.29	Czechoslovakia	
			ISG	11 53	53.0	-0.6										50.30 N 14.40 E		
			E	11 54	18.0											H = 11 52 22.0 /ISC/		
381	JUN 10	BRA	E	16 57	17.0												No determination of epicentre	
382	JUN 11	BRA	E	11 11	55.0												No determination of epicentre	
383	JUN 11	BRA	EAPKRF	22 35	27.0	12.7									158.15	39.47	Kermadec Islands	
																29.98 S 178.72 W		
																H = 22 15 13.7		
																Depth = 12 km	MB = 4.9 /ISC/	

384	JUN 12	BRA	EPP	10 24	45.0	-8.4											34.10 N 37.28 E	
385	JUN 12	BRA	IEXP IPOP IPUP	16 37	40.0	1.7											H = 10 19 48.8 /ISC/	
			I	16 38	43.0	-3.4										MB = 4.6		
			POP	16 38	0.0	13.6												
			IPUP	16 38	33.0													
		SRO	+IIP	16 39	24.0													
			I	16 39	27.6	-0.6												
			ISP	16 38	57.6	-0.5												
			LHM	17 6	0.0													
386	JUN 12	BRA	IPCP	16 58	46.0	-0.7												
			I	16 59	43.0													
387	JUN 12	BRA	+IEXP	18 0	52.0	0.5												
			I	18 1	59.0													
			POP	18 2	29.0													
			IPUP	18 3	27.0													
		SRO	+IAP	18 0	55.0	-1.3												
			I	18 2	39.6													
			AP	18 14	0.0													
388	JUN 14	BRA	E	7 11	11.0												No determination of epicentre	
389	JUN 14	BRA	E	8 53	43.0												No determination of epicentre	
390	JUN 14	BRA	E	11 24	21.0												No determination of epicentre	
391	JUN 14	BRA	E	11 42	13.0													
392	JUN 15	BRA	E	0 32	16.0													
393	JUN 15	SRO	EAP	0 56	37.0	-3.6												
			+IAP	0 56	41.4	0.4												
			I	0 57	34.0	7.0												
			AP	0 58	24.0													
			E	0 58	24.0													

No.	Date	St. Code	Phase	h	GMT	s	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
							O-C	A	A	A	T					
424	JUN 25	BRA	IP	5	14	10.4	-0.6						92.68	296.86	Near Coast of Oaxaca, Mexico 15.61 N 95.26 W H = 5 1.2 Depth = 33 km MB = 5.2 /ISC/	
425	JUN 25	BRA	BAPKIKP EPKIP2 IPKIKP B	5	25	19.0	3.0						159.98	239.62	South Pacific Cordillera 54.70 S 131.66 W H = 5 15.0 Depth = 4 km MB = 5.5 /ISC/	
426	JUN 25	BRA	IPG	11	3	7.5							160.09	238.55	No determination of epicentre	
427	JUN 25	SRO	EPCKP LMV TSKS LMH BRA EP. EAP EPP	17	35	36.0	1.1						94.07	125.79	South Indian Ocean 26.02 S 84.30 E H = 17 22.17.9 Depth = 20 km MB = 6.1 /ISC/	
				18	22	0.0	2.2						94.33	124.48		
				17	46	12.0	-1.3						6.5	95.20	123.60	
				18	18	0.0	0.0									
				17	35	46.0	-0.3									
				17	36	28.0	-0.7									
				17	39	28.0	0.5									
				17	41	26.0										
				17	53	9.0										
428	JUN 25	BRA	EPCKP E	17	52	25.0	-2.0						84.16	42.98	Off East Coast of Honshu 34.43 N 141.07 E H = 17 39.49.0 Depth = 4 km MB = 4.7 /ISC/	
				18	29	7.8	1.3									
				22	29	25.8	6.4									
				22	31	10.0	2.2									
				22	29	16.0	-3.6									
				22	29	16.0	2.3									
				22	33	52.0	0.1									
				22	41	0.0										
				2.3	16.0	3.0	16.0						5.0			
429	JUN 25	BRA	IP	22	29	7.8	1.3						24.79	324.41	Iceland 64.66 N 17.44 W H = 22 23.46.2 Depth = 32 km MB = 5.1 /ISC/	
				22	29	10.0	6.4									
				22	29	16.0	-3.6									
				22	33	52.0	0.1									
				22	41	0.0										
430	JUN 26	BRA	EP	1	27	54.0	-0.8						25.22	321.87	Svalbard Region 76.13 N 9.30 E H = 1 21.58.1 Depth = 0 km MB = 4.3 /ISC/	
													25.55	322.34		
431	JUN 26	BRA	E	8	59	56.0							28.25	256.03	No determination of epicentre	

No.	Date	St. Code	Phase	h	GMT	s	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
							O-C	A	A	A	T					
432	JUN 26	BRA	EP	18	53	40.0	-2.2						62.89	254.68	North Atlantic Ridge 10.50 N 43.70 W H = 18 43.19.0 Depth = 51 km MB = 4.7 /ISC/	
433	JUN 26	SRO	EPKIKP IPKIKP IPKIKP IPKIKP IPKIKP	23	52	16.0	-1.5						151.71	38.99	South of Fjord 23.86 S 179.31 E H = 23 33.26.8 Depth = 528 km MB = 5.3 /ISC/	
434	JUN 27	SRO	EP	2	1	36.0	0.9						151.93	36.49		
				2	11	44.0	1.3									
				2	36	56.0	4.5									
				2	36	0.0	4.5									
				2	36	0.0	0.0									
				2	36	26.5	-0.2									
				2	41	42.5	0.9									
				2	49	5	2.3									
				2	50	40.0	55.5									
435	JUN 27	SRO	EP	5	1	28.0	2.3						80.64	51.81	Shikoku 32.27 N 132.05 E H = 4 49.17.2 Depth = 54 km MB = 4.9 /ISC/	
				5	12	27.0	-0.9						81.05	51.04		
				5	12	17.0										
436	JUN 27	SRO	EPKIKP IPKIKP IPKIKP IPKIKP IPKIKP	8	5	0.0	1.7						121.95	57.28	New Britain Tecton 4.72 S 149.10.4 E H = 7 46.11.6 Depth = 68 km MB = 5.9 /ISC/	
				8	50	0.0	-1.4									
				8	50	3.0	3.8									
				8	51	18.8	-0.0									
				8	51	11.0										
437	JUN 28	BRA	E	5	18	25.0							83.01	46.01	No determination of epicentre	
													83.34	45.21		
438	JUN 28	BRA	IXP	11	13	12.7	0.6						80.64	51.81		
				11	13	29.7	12.2									
				11	13	15.6	-0.4									
				11	13	0.0										
				11	13	38.8	1.3									
				11	13	56.6	9.8									
439	JUN 28	BRA	IPKIKP	18	26	6.0	0.5						141.60	48.46	New Hebrides 17.98 S 16.87 E H = 18 6.3.0 Depth = 17 km /ISC/	
													14.80	225.37		
													4.5	226.48		

No.	Date	St. Code	Phase	h	m	s	GMT	RES O-C	2	E-W	N-S	A T	A T	MPV	MLH	Delta	Azimuth	Remarks
440	JUN 29	BRA	IAP	1 10	32.2	1.3									14.57	221.31	Algeria 36°55' N H = 1 Depth = 32 km	5.21 E MB = 4.7 /ISC/
			E	1 11	27.0										16.75	226.49		
			SPC	1 10	57.0	-2.1												No determination of epicentre
441	JUN 29	BRA	EPN	1 37	30.0													No determination of epicentre
			ISG	1 38	2.2													
442	JUN 29	BRA	E	12	5	30.0												No determination of epicentre
			I	12	5	42.9												
443	JUN 29	BRA	EP	15	27	53.0	0.4								78.40	208.33	South Atlantic Ridge 25°48' S H = 15.15 Depth = 33 km	13.95°W MB = 4.8 /ISC/
444	JUN 29	BRA	ES	21	33	16.0	-7.5								8.84	171.93	Southern Italy 39°40' N H = 21.29 Depth = 0 km	18.70°E MB = 30.0 /ISC/
445	JUN 29	BRA	EXS	22	34	36.1	9.8								8.61	171.07	Southern Italy 39.5°N H = 22.32 Depth = 39 km	18.83°E MB = 4.0 /ISC/
			E	22	37	41.0	14.7											
446	JUN 30	SRO	EPKIP	8	53	15.0	4.0								141.44	49.87	New Hebrides 17.98°S H = 8.33 Depth = 60 km	16.26°E MB = 26.8 /ISC/
			EPP	8	56	15.0	-3.4								141.81	47.97		
			EPKIP	8	53	10.0	-1.7											
			EPKIP	8	53	13.0	1.3											
			E	8	54	17.7												
			ESTPDF	8	55	8.7												
			E	8	56	42.7	3.2											
			E	8	58	23.7												
447	JUN 30	BRA	EP	33	38.8	4.4									37.06	142.34	Etna, Sicilia 15.97°N H = 13.26 Depth = 33 km	39.61°E MB = 26.7 /ISC/
448	JUN 30	BRA	EP	17	21	11.9	0.7								67.60	145.33	Madagascar 13.50°S H = 17.10	48.90°E MB = 15.9 /ISC/

449	JUN 30	BRA	IPKIP	18	14	42.9	2.0								126.18	54.29	Solomon Islands 7°12' S H = 17.55 Depth = 62 km	155.77°E MB = 5.3 /ISC/
450	JUN 30	BRA	EP	19	6	51.0	-8.8								5.95	229.59	Northern Italy 44.13°N H = 19.5 Depth = 41 km	10.81°E /ISC/
451	JUL 1	BRA	EPN	1 28	30.0	0.8									7.47	283.65	Franco 49.0°N H = 1.26 Depth = 0 km	5.96°E /ISC/
			ISG	1 30	35.1	-8.0												
			I	1 32	43.1													
			I	1 32	23.1													
452	JUL 1	BRA	E	2	26	53.0											No determination of epicentre	
453	JUL 1	BRA	EP	5	18	34.0	0.6								32.48	354.35	Greenland Sea 79.94°N H = 5.12 Depth = 24 km	0.40°W MB = 4.4 /ISC/
454	JUL 1	BRA	EP	7	34	25.0	3.3								28.05	354.83	Greenland Sea 75.82°N H = 7.28 Depth = 33 km	7.20°E MB = 4.3 /ISC/
455	JUL 1	BRA	E	12	38	37.0											No determination of epicentre	
456	JUL 1	BRA	EP	17	5	39.0	-3.9								100.97	249.21	Salta Province, Argentine 22.14°S H = 16.51 Depth = 16 km	64.74°W MB = 5.5 /ISC/
			EPP	17	5	53.0	-1.0								101.61	249.98		
			E	17	10	21.0												
			E	17	11	16.0												
			SRO	17	5	35.0	10.8											
			EP	17	9	37.0												
			ISKS	17	16	19.0	-4.1											
			LMH	17	16	40.0	16.9											
			I	17	52	0.0												
457	JUL 1	BRA	IP	23	22	53.0	-0.2								74.70	206.53	South Atlantic Ridge 22.57°S H = 23.11 Depth = 29 km	10.68°W MB = 5.5 /ISC/
			I	23	23	31.0												
			EPP	23	25	35.0	-7.4											
			E	23	26	12.0												
			E	23	27	47.0												
			SRO	23	32	56.0	1.0											
			IP	23	32	54.5	3.8											
			S	23	32	30.5												

No.	Date	St. Code	Phase	h	GMT m	S	RES O-C	Z	E-W	N-S	MPV	MLH	Delta Azimuth	Remarks
		SPC	LMH	23	56	0.0			2.0 16.0	3.0 16.0		5.8	76.57	209.23
		T	EP	23	23	1.0	-2.9							
		E		23	25	42.5								
458	JUL 2	BRA	IPKIKP	7	35	21.4	0.1					144.66	121.13	West of Macquarie Island
			IPAKIKP	7	35	30.4	-1.7					53.91 S 140.30 E		
			E	7	36	52.0						H = 7.15 km	MB = 49.1	
												Depth = 33 km	MB = 5.2	/TSC/
459	JUL 2	BRA	EP	8	2	41.0								No determination of epicentre
		T		8	3	15.4								
		I		8	3	23.4								
460	JUL 2	BRA	IPG	11	4	15.4								No determination of epicentre
461	JUL 2	BRA	BAF	16	48	52.0	-2.5					40.63	76.03	Alma-Ata Region
		E		16	49	32.0						42.18 N 75.34 E		
												H = 16.41 km	7.3	
												Depth = 26 km	MB = 4.6	/TSC/
462	JUL 2	SPC	EPKIKP	23	46	22.7	4.8					156.54	37.73	Kermadec Islands Region
		SRO	LMV	0	53	0.0						158.41	35.79	29.22 S 175.94 W
			IPKIKP	23	46	22.6	2.2					H = 23.26 km	26.8	
			IPKSDP	23	50	10.6	18.0					Depth = 33 km	MB = 6.5	/TSC/
			LMH	0	52	0.0								
		BRA	IPKIKP	23	46	23.3	2.7							
			IPAKIKP	23	46	34.3	2.9							
			I	23	47	36.3								
			IPP	23	50	49.3	9.6							
			I	23	54	44.3								
			LMV	23	59	24.3								
				0	46	0.0								
463	JUL 3	BRA	IP	3	13	38.3								No determination of epicentre
464	JUL 3	SPC	IPKIKP	23	45	3.0						156.59	38.27	Kermadec Islands Region
		I	IPKIKP	23	48	59.5	-10.9					29.37 S 176.13 W		
		E	IPKIKP	23	45	2.7	0.7					H = 23.25 km	14.0	
			I	23	49	14.7	-6.1					Depth = 77 km	MB = 6.0	/TSC/
			LMH	0	51	0.0								
		BRA	IPKIKP	23	45	3.5	1.3							
			IPKP2	23	45	40.5	10.6							
			E	23	45	35.5	10.6							

No.	Date	St. Code	Phase	h	GMT	m	s	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
								O-C	A	T	A	T					
476	JUL 8	SPC	EP	5	57	45.0	0.7							79.96	44.63	Near East Coast of Honshu	
		EPP		6	0	31.4	-16.4									36°44' N 141°17' E	
		EXS		6	8	11.0	4.9									H = 545 km MB = 6.0 /TSC/	
		SRO	IP	6	37	0.0										Depth = 45 km	
		IS		6	8	53.9	-0.3										
		LAV		6	31	0.0	1.4										
		BRA	IAP	5	57	56.0	0.3	180	1.0					81.84	43.18		
		EPP		5	58	8.0	-0.9										
		IXP		5	58	32.0	17.9										
		IPP		6	1	5.0	-1.2										
		EXS		6	8	23.0											
		LAV		7	39	40.0	11.6										
		BRA	TPG	11	5	19.0										No determination of epicentre	
477	JUL 8																
478	JUL 9	SRO	IP	2	35	7.7	-18.7							13.51	142.55	Dodecanese Islands	
		IAP		2	35	33.7	-1.4									36°57' N 28°48' E	
		ISS		2	36	9.7	9.1									H = 232 km MB = 4.9 /TSC/	
		LMH		2	40	51.7											
		SPC	EP	2	35	36.0	3.7										
		BRA	IAP	2	35	26.5	-0.1										
		IP		2	35	43.5	-2.0										
		IAP		2	36	15.5											
		ESS		2	37	34.0	7.1										
		E		2	40	16.0											
479	JUL 9	BRA	E	10	57	53.0										No determination of epicentre	
480	JUL 9	BRA	EP	16	31	24.0	-0.4										
481	JUL 9	BRA	EXP	17	50	7.0	-1.4										
482	JUL 10	BRA	EP	3	4	30.0	1.5										

483	JUL 10	BRA	EP	4	42	3.0	0.3							82.57	97.31	Off West Coast of North Sumatra
484	JUL 10	BRA	IP	16	12	40.3	-0.4							85.42	324.16	0.67 N 96.72 E
		EPP		16	13	11.0										H = 2942 km MB = 4.9 /TSC/
				16	12.0	11.5										
485	JUL 11	SRO	EAP	18	1	46.8	-4.4							25.03	341.90	Southern Nevada N.E.
		BRA	IAP	18	1	49.7	4.3							25.41	344.41	37.07 N 116.03 W
		EXP		18	2	51.7	6.9							25.97	343.88	H = 160 km O.1 /TSC/
		IP		18	2	25.0										
		IAP		18	1	53.4	2.7									
		SRO		18	1	58.4	-1.6									
		EXS		18	6	37.0	4.3									
		LMH		18	14	0.0										
486	JUL 12	BRA	E	3	40	4.0										No determination of epicentre
487	JUL 12	BRA	TPG	16	40	3.5										No determination of epicentre
488	JUL 13	BRA	IP	1	31	11.3	-0.2	320	1.5					6.4	87.39	Peneme-Colombia Border Region
		IAP		1	31	20.3	14.5									7.76 N 77.57 W
				1	32	13.3										H = 11823.2 km MB = 6.4 /TSC/
		ISCS		1	33	13.3										
		LMH		1	33	44.3										
		IAP		1	33	12.3										
		IPCP		1	31	17.0	-0.6									
		ISKS		1	33	49.2	3.3									
		LMH		1	41	45.2										
		EXP		1	31	0.0										
		IMV		2	10	0.0										
489	JUL 13	BRA	IP	2	33	7.4	-0.3									Panama-Colombia Border Region
		IPOP		2	33	13.4	3.3									7.51 N 77.50 W
		I		2	34	10.4										H = 2024.6 km MB = 5.5 /TSC/
490	JUL 13	BRA	EP	4	3	49.0	-2.6									Panama-Colombia Border Region
		E		4	4	35.0										7.64 N 77.67 W
																H = 3516.1 km MB = 5.1 /TSC/

No.	Date	St. Code	Phase	h	GAT	m	s	RES O-C	2	E-W	N-S	A	T	A	T	MPV	MLH	Delta	Azimuth	Remarks
491	JUL 13	BRA E		10	23	27.0														No determination of epicentre
		SPC E	EP	10	22	57.0														Panama-Colombia Border Region
492	JUL 13	BRA E	EP	10	34	11.0	-1.9													H = 10 21 25.3 Depth = 11 km MB = 4.8 /ISC/
493	JUL 13	BRA E		12	32	49.0														No determination of epicentre
494	JUL 13	BRA E	EP	13	13	40.0	-0.3													Panama-Colombia Border Region
		SPC E	EP	13	14	6.0	11.2												H = 13 0 54.1 Depth = 33 km MB = 4.7 /ISC/	
495	JUL 13	BRA E		13	21	29.0														No determination of epicentre
496	JUL 13	BRA IP		16	1	3.4	4.4									15.23	221.33	Algeria 35.97 N 4.76 E		
		IPCP		16	1	18.4	7.1												H = 15 57 22.1 Depth = 9 km MB = 4.8 /ISC/	
		IPCP		16	1	29.4	18.1													
		E		16	2	26.0	2.1													
		SRO E		16	1	5.0	2.1													
		LMHH		16	2	9.0	0.0													
		SPC IP		16	1	32.5	5.7													
497	JUL 13	BRA EP		16	28	43.0	-0.1									87.28	278.58	Panama-Colombia Border Region		
																			H = 16 15 56.3 Depth = 18 km MB = 4.8 /ISC/	
498	JUL 13	BRA EP		16	46	7.0	0.3									87.75	278.49	Panama-Colombia Border Region		
																			H = 16 35 20.5 Depth = 37 km MB = 4.6 /ISC/	
499	JUL 13	BRA EP		18	1	40.0	0.2									87.15	278.69	Panama-Colombia Border Region		
																			H = 17 48 53.9 Depth = 20 km MB = 4.7 /ISC/	
500	JUL 13	BRA IP		18	11	30.0	-1.3									87.30	278.60	Panama-Colombia Border Region		
		SRO IPCP		18	11	38.0	0.4									88.16	279.50	Panama-Colombia Border Region		
		ISCS IPCP		18	22	33.0	9.5									89.18	280.91	Panama-Colombia Border Region		
		SPC IPCP		18	11	43.9	1.4												H = 17 58 42.3 Depth = 5 km MB = 5.4 /ISC/	

501	JUL 13	BRA EPK22		19	3	56.0	-0.9									147.90	-184.41	Tonga Region	
				19	28	33.0	-0.3									17.07	8 173.00 W		
502	JUL 13	BRA EP														87.28	278.62	Panama-Colombia Border Region	
																7.84 N 77.49 W			
503	JUL 13	BRA IP		23	21	32.0	1.1									87.75	278.27	Panama-Colombia Border Region	
		IPCP		23	21	33.0	0.8									89.64	280.59	Panama-Colombia Border Region	
		IPCP		23	21	42.0	0.5												H = 19 15 46.5 Depth = 18 km MB = 4.5 /ISC/
504	JUL 14	BRA IP		2	1	30.4	0.7									87.34	278.69	Panama-Colombia Border Region	
		E		2	1	10.0	0.7									89.22	281.00	Panama-Colombia Border Region	
		SPC EP		2	1	42.5	2.1												H = 23 8 42.6 Depth = 23 km MB = 5.3 /ISC/
505	JUL 14	BRA IP		2	26	39.4	1.2		70	1.0					5.9	87.36	278.59	Panama-Colombia Border Region	
		E		2	26	41.4	0.7												H = 24 N 77.55 W Depth = 26 km MB = 5.3 /ISC/
		IPCP		2	27	1.3	4												
		E		2	28	1.0	0												
		EP		2	30	2.2	0												
		SRO IPCP		2	26	45.0	1.5												
		SPC IPCP		2	26	49.8	0.9												
506	JUL 14	BRA E		8	15	23.0													No determination of epicentre
507	JUL 14	SRO EPK22		19	8	17.0	2.1									156.82	38.93	Kermadec Islands Region	
		BRA EPK22		19	8	11.1	1.8									157.01	38.02	H = 18 48 43.1 W Depth = 191 km MB = 5.3 /ISC/	
508	JUL 14	BRA E		20	47	27.0													No determination of epicentre
509	JUL 14	BRA E		20	52	17.0													No determination of epicentre
510	JUL 14	BRA EAP		21	35	0.0	-0.7									25.75	293.89	Greenland Sea	
																		H = 21 29 22.1 E Depth = 33 km MB = 4.4 /ISC/	
511	JUL 15	BRA E		1	39	45.0													No determination of epicentre

No.	Date	St. Code	Phase	h	GMT	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
						O-C	A	A	T	A	T					
530	JUL 21	SRO BRA	I EXP	5 26	0.0	2.5						7.81	171.80	Albania 40°07' N 19°76' E H = 5 24 22.9 Depth = 36 km MB = 4.0	/ISC/	
531	JUL 21	BRA	I PGP I FCP E	8 41	39.0	1.4						91.78	293.69	Near Coast of Chiapas, Mexico 14°32' N 92.11' W H = 8 28 33.7 Depth = 56 km MB = 5.2	/ISC/	
532	JUL 21	BRA	E	18 50	27.0											No determination of epicentre
533	JUL 22	BRA	EP ES	7 23	39.0	-0.5						9.00	189.59	Southern Italy 39°25' N 15°38' E H = 7 19 32.7 Depth = 257 km MB = 4.5	/ISC/	
534	JUL 22	BRA	E	15 38	29.0											No determination of epicentre
535	JUL 23	BRA	EAPKIP EAPKP E	0 48	6.0	-2.3						151.04	22.15	Tonga 20°60' S 174°13' W H = 0 28 13.9 Depth = 33 km MB = 5.0	/ISC/	
536	JUL 23	BRA	I PKP I APKIP ESKDP	11 18	22.7	-1.0						143.70	47.84	New Hebrides 19°55' S 169°37' E H = 10 58 46.0 Depth = 146 km MB = 5.7	/ISC/	
537	JUL 23	BRA	EP	22 2	46.0	-0.6						76.72	26.38	Kurile Islands 49°16' N 155°90' E H = 21 50 57.0 Depth = 33 km MB = 4.5	/ISC/	
538	JUL 24	BRA	ISB ESG	0 26	14.4	2.6						5.35	272.46	Germany 48°40' N 9°10' E H = 0 23 29.0 Depth = 31 km	/ISC/	
539	JUL 24	SRO BRA	I PKIP LMH EPKIP I PKP EPKSAB	8 47	32.5	0.8						159.59	42.40	Kermadec Islands Region 31°42' S 177°55' W H = 8 27 32.0 Depth = 10 km MB = 5.4	/ISC/	

No.	Date	St. Code	Phase	h	GMT	RES	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
						O-C	A	A	T	A	T					
540	JUL 24	BRA	E	10 24	8.0											No determination of epicentre
541	JUL 24	BRA	E	14 23	44.0											No determination of epicentre
542	JUL 24	BRA	EAPKIP EAPKP	14 33	52.0	1.2						148.89	21.31	Tonga 18°10' S 174°30' W H = 14 14 11.0 Depth = 36 km MB = 5.2	/ISC/	
543	JUL 24	BRA	E	22 30	24.0											No determination of epicentre
544	JUL 25	BRA	IPN ISG	1 22	22.3	-5.1						2.70	198.27	Yugoslavia 45°0' N 15°90' E H = 1 1 42.0 Depth = 0 km	/ISC/	
545	JUL 25	BRA	E	13 40	20.0											No determination of epicentre
546	JUL 25	BRA	E	13 50	28.0											No determination of epicentre
547	JUL 25	SRO BRA	EPIKIP EPP EPKIP EPKIP	17 36	29.0	-3.6						123.34	57.76	New Britain Region 6°10' S 153°03' E H = 17 17 39.0 Depth = 33 km MB = 5.4	/ISC/	
548	JUL 25	BRA	ESB	19 14	53.0	7.9							7.50	296.34	Germany 51°02' N 6°43' E H = 19 10 59.4 Depth = 12 km	/ISC/
549	JUL 26	BRA	E	3 25	48.0											No determination of epicentre
550	JUL 26	BRA	IPN IPB IPG	11 30	41.2	-0.9						5.77	141.34	Yugoslavia 43°05' N 22°06' E H = 11 29 13.1 Depth = 0 km	/ISC/	
551	JUL 26	BRA	IPG I	11 30	54.2	-0.4										No determination of epicentre
552	JUL 26	SRO BRA	EPF EP	13 19	41.0	-2.3						106.37	76.86	Serbia 3°53' S 128°91' E H = 1 3 0 Depth = 24 km MB = 5.6	/ISC/	

No.	Date	St. Code	Phase	h	GMT	RES	Z	E-W	N-S	A	T	A	T	MPV	MLH	Delta	Azimuth	Remarks
						O-C	A	A	A	T								
553	JUL 26	BRA	EPM	20 15	49.0													No determination of epicentre
			IPG	21 15	51.0													
554	JUL 26	BRA	EAPRHKP	20 29	38.0	-1.0												
555	JUL 26	BRA	EAP	20 49	32.0	1.1												
				49.0	1.3													
556	JUL 27	BRA	EP	4 38	8.0	2.8												
			IPCP	4 39	26.0	4.7												
			E	4 40	45.0	-6.3												
			EPP	4 42	21.0	-0.7												
		SRO	IPCP	4 42	49.0	3.2												
			IKS	4 47	53.0													
			LADH	5 10	0.0													
557	JUL 27	BRA	E	9	0	9.0												
			E	9	0	27.0												
558	JUL 27	BRA	E	18 12	25.0													
			E	18 13	23.0													
559	JUL 28	SPC	IP	11 46	47.7	1.9												
			EAP	11 49	32.0	-7.9												
			EPP	12 23	0.0													
		SRO	IP	11 45	57.4	1.4												
			IS	11 56	49.4	3.1												
			IP	12 20	0.0													
		BRA	IP	11 46	56.6	0.1												
			IXP	11 47	15.6	-1.1												
			E	11 49	24.6	8.6												
			EXS	11 57	11.0	-1.0												
			LADH	12 24	0.0													
560	JUL 28	BRA	IP	12 19	48.6	0.1												
			E	12 20	5.6	-1.6												
			EPP	12 21	17.0													

1974

561	JUL 28	SPO	EP	13 43	28.4	4.1												Kuril Islands 46°31'N 153°35'E Depth = 29 km MB = 5.4 /ISC/
			IP	13 44	35.6	0.6												
			EPP	13 46	42.0	7.4												
562	JUL 28	SRO	IP	13 53	37.6	1.5											Kuril Islands 46°33'N 153°32'E Depth = 30 km MB = 5.4 /ISC/	
			IPCP	13 53	36.5	-0.1												
			E	13 53	41.5	-4.6												
563	JUL 28	BRA	EP	15 22	33.0	-0.3											Kuril Islands 46°10'N 153°13'E Depth = 17 km MB = 4.6 /ISC/	
			E	16 35	29.0	1.1												
564	JUL 28	BRA	EP	16 39	32.0												Kuril Islands 46°03'N 153°26'E Depth = 23 km MB = 4.7 /ISC/	
			E	16 39	46.0	6.6												
565	JUL 28	SRO	IP	16 45	53.6	0.8											Kuril Islands 46°12'N 153°16'E Depth = 47 km MB = 5.0 /ISC/	
			EP	16 46	52.0	-0.3												
			EPP	16 47	31.0	6.6												
566	JUL 28	BRA	EP	18 12	46.0	3.2											Kuril Islands 46°28'N 153°39'E Depth = 24 km MB = 4.9 /ISC/	
			E	2 25	38.2	-0.7												
567	JUL 29	SPC	IP	2 25	48.0	1.6											Kuril Islands 46°13'N 153°18'E Depth = 11 km MB = 4.8 /ISC/	
			EAP	2 26	14.0	18.4												
568	JUL 29	SPO	IP	3 27	5.0	0.7											Kuril Islands 46°20'N 152°83'E Depth = 31 km MB = 5.7 /ISC/	
			IPAV	4	21.0	2.3												
			IP	3 27	13.6	0.0												
			ISKS	3 37	13.6	-6.3												
			IAIH	3 37	13.6	0.0												
			IP	3 27	16.1	1.1												
			EPP	3 30	33.1	-0.7												
			EPP	3 30	20.0	5.4												

No.	Date	St. Code	Phase	h	GMT	s	RES			Z			E-W			N-S			MPV	MLH	Delta Azimuth	Remarks
							A	T	A	T	A	T	A	T	A	T	A	T				
569	JUL 29	SFC	IP	7	27	16.7	0.6	7840	8.0							6.8	7.8.45	76.62	31.81	Kurile Islands 46°01' N 152.88' E H = 7.16' 2' 3' Depth = 46 km MB = 5.9	/TSC/	
		SRO	IP	7	28	25.6	-5.1												30.45			
		IPP	IP	7	31	15.6	3.4															
		TS	IP	7	38	19.6	0.0															
		LMH	IP	8	8	0.0	0.0															
		BRA	IP	7	28	25.2	1.2	140	0.6	12.0	16.0	15.0	16.0	5.7	6.5	78.56	29.73					
		IAP	IP	7	28	40.2	1.2															
		IXP	IP	7	28	49.2	4.9															
		I	IP	7	29	30.2																
		I	IP	7	32	26.2																
570	JUL 29	BRA	EPKPP	12	11	55.0	-3.2										148.40	22.40	Tonga 18°08' S 175.01' W Depth = 231 km MB = 4.8	/TSC/		
																			No determination of epicentre			
571	JUL 29	BRA	E	12	39	15.0																
		I	IP	12	39	17.0																
572	JUL 29	BRA	EP	17	56	27.0	-0.2															
		I	IP	23	32	50.0																
573	JUL 29	BRA	IP	23	32	52.0																
		I	IP	23	33	27.0																
574	JUL 30	SPC	IP	5	19	46.0	2.1															
		SRO	IP	5	19	55.0	3.2															
		HRI	EP	5	19	57.6	2.2															
		BRA	IP	5	20	15.2	0.9															
		I	IPCP	5	20	20.2	-0.1															
		I	IPCP	5	22	18.2	18.7															
		ISCS	IP	5	23	9.2	-0.4															
575	JUL 30	SPC	BAPKHKP	10	47	6.4	-0.1															
		BRA	I	10	47	44.0																

No.	Date	St. Code	Phase	h	GMT	s	RES			Z			E-W			N-S			MPV	MLH	Delta Azimuth	Remarks
							A	T	A	T	A	T	A	T	A	T	A	T				
576	JUL 30	SPO	EP	11	48	56.0	3.2												39.51	90.61	Pakistan 35.48' N 71.46' E Depth = 11.41' 30.2' MB = 5.0	/TSC/
		SRO	EP	11	49	7.0	3.4												40.82	87.56		
		BRA	EP	11	49	12.0	1.9												41.61	87.11		
		IPP	EP	11	50	5.0	0.1															
		B	EP	11	52	37.0																
577	JUL 30	SPO	IP	22	51	33.5	0.8												76.59	31.53	Kurile Islands 46°17' N 153.20' E Depth = 22.39' 40.0' MB = 5.1	/TSC/
		SRO	IP	22	51	44.0	0.6												78.52	29.46		
		BRA	IP	22	52	7.0	14.0															
578	JUL 31	BRA	E	11	50	3.0																
		I	IP	11	50	20.0																
579	JUL 31	BRA	E	14	59	48.0																
580	AUG 1	SPO	BAPKHKP	5	18	48.0	1.8												144.44	51.97	Loyalty Islands Region 22.40' S 170.58' E H = 4.59' 10.3' Depth = 39 km MB = 5.1	/TSC/
		SRO	IP	5	18	46.0	-0.5												146.30	50.92		
		IPP	IP	5	29	38.0																
		LMH	IP	5	57	0.0																
		BRA	BAPKHKP	5	18	52.0	-0.4															
581	AUG 1	SPO	IP	6	7	17.8	3.0												74.40	355.68	Kodiak Island Region 56.59' N 152.22' W H = 5.55' 36.9' Depth = 23 km MB = 5.7	/TSC/
		BRA	IP	6	8	21.0	1.4												75.23	355.92		
		I	IP	6	8	10.0																
582	AUG 1	SPO	IP	8	11	36.1	2.2												74.48	355.79	Zamboanga 16.67' S 128.42' W H = 5.52' 43.7' Depth = 7.59' 55.4' MB = 5.7	/TSC/
		BRA	IP	8	11	40.0	1.3												75.32	354.03		
583	AUG 1	SPO	EP	9	47	6.0	-1.2												64.78	169.66		
		SRO	EP	9	47	10.0	0.4												65.93	171.78		
		BRA	EP	9	47	18.0	-1.0															
584	AUG 1	SPO	EP	22	51	1.0	4.4												74.49	28.05	Kurile Islands 49.63' N 156.07' E H = 22.29' 22.4' Depth = 5.56' km MB = 5.3	/TSC/
		SRO	EP	22	51	10.0	3.0												76.31	26.74		
		BRA	EP	22	51	8.7	1.5															
		IPP	IP	22	51	14.7	-4.5															
		I	IP	22	52	10.7																
		E	IP	22	53	8.0																

No.	Date	St. Code	Phase	h	GMT m	RES O-C	E-W			N-S			MPV	MLH	Delta	Azimuth	Remarks
							A	T	Z	A	T	A					
585	AUG 2	SPC SRO	EP IAP IPP I	8.29	53.6	5.5							29.64	117.75	Iran	30.49 N 50.71 E	
				8.30	50.4	2.0	-4.6						30.21	113.19	H = 8	23 45.5	/ISC /
				8.31	10.4	17.1									Depth = 53 km	MB = 4.8	
				8.31	30.4												
				8.32	16.4												
586	AUG 3	SPC SRO	IP IPP ISCS LMH BRA	18.28	40.9	2.6							79.73	45.71	Honschu	36°18' 139.93 E	
				18.28	50.4	2.1							81.61	44.26	H = 18	16 35.0	/ISC /
				18.21	58.4	0.8									Depth = 57 km	MB = 5.7	
				18.39	6.4	-3.2											
				19.9	0.0												
				18.28	21.6	1.7											
				18.29	25.6	13.2											
				18.32	25.6	0.6											
				18.34	43.0												
587	AUG 4	SPC SRO	IP IPP IKS BRA	15.10	43.0	2.7							19.14	101.16	Eastern Caucasus	42.36 N 45.97 E	
				15.10	54.4	2.4							20.22	95.39	H = 15	6 17.2	/ISC /
				15.11	28.4	16.2									Depth = 33 km	MB = 5.4	
				15.14	46.4	1.4											
				15.16	20.4												
				15.11	0.2	-0.5											
				15.11	8.2	-1.5											
				15.11	20.2	-3.7											
				15.11	40.2	16.3											
				15.12	32.2												
				15.15	6.0	-0.8											
588	AUG 5	SPC BRA	EP IP EPP	13.26	20.0	1.7							33.16	111.25	Southern Iran	28.03 N 53.62 E	
				13.26	30.2	-0.7							34.62	112.22	H = 13 19 43.3		
				13.27	15.0										Depth = 38 km	MB = 5.2	/ISC /
				13.28	7.0	18.9											
589	AUG 5	BRA	EPP ESG	18.40	15.0	-2.0							7.58	244.85	Northern Italy	44.53 N 7.50 E	
				18.42	16.0	19.8									Depth = 9 km	/ISC /	
590	AUG 6	BRA	EP EAP	11.17	25.0	0.0							31.25	354.95	Greenland Sea	78.89 N 3.50 E	
				11.17	33.0	0.6									H = 11 11 5.2	/ISC /	
591	AUG 6	BRA	E E	14.45	21.0										Depth = 26 km	MB = 4.5	/ISC /
				14.45	31.0												No determination of epicentre

No determination of epicentre									
592	AUG 6	BRA	E I	16	0 12.0				
				16	0 14.0				
593	AUG 6	SPC SRO BRA	EAP EP EAP	17	0 49.6	1.2			
				17	0 52.0	-6.7			
				17	1 0.0	0.7			
				17	1 45.0	4.0			
594	AUG 6	SPC SRO	EPAHKP EAPK2 EPP	18	57 56.0	2.0			
				18	58 18.5	0.2			
				18	57 34.5	-2.4			
				18	57 58.6	6.7			
				18	58 32.6	6.7			
				20	59 0.0	0.0			
				18	58 0.0	1.1			
				18	58 20.0	5.8			
				18	58 47.0	0.0			
				18	59 28.0	0.0			
				19	2 7.0	20.0			
595	AUG 7	SPC BRA	EAP EP	0	57 41.4	-4.1			
				0	57 45.0	1.3			
596	AUG 7	SPC BRA	EAP EP EPP	1	53 13.0	3.6			
				1	53 16.0	-0.3			
				1	53 47.0	-9.6			
597	AUG 7	BRA	TPG	7	20 27.0				
598	AUG 7	SPC BRA	EAP EP	8	32 41.0	3.3			
				8	32 43.0	0.5			
599	AUG 7	SPC BRA	EAP EP	8	35 20.8	-3.9			
				8	35 20.0	1.3			
				8	36 7.0				
600	AUG 7	SRO	E	8	42 51.0				

No.	Date	St. Code	Phase	h	GMT m	s	RBS O-C	Z	E-W	N-S	A T	MPV	MLH	Delta Azimuth	Remarks
601	AUG 7	SRO BRA	EPG I	15 39	22.0										No determination of epicentre
			EPG E	15 40	22.7										
			EPG I	15 39	29.0										
			EPG E	15 40	41.0										
			IP	15 40	6.0										
			IP	15 40	10.0										
			IP	15 41	23.0										
602	AUG 6	SPC BRA	IAP IP	1 30	39.3	2.7		50	1.0			5.1	24.86	350.40	Greenland Sea
			IAP IP	1 30	44.0	0.6							25.57	350.74	73°19' N 6°30' E
			IAP IP	1 31	52.0	-10.9									H = 125°13.9'
			IAP IP	1 30	46.7	-0.9									Depth = 20 km MB = 5.0 /ISC/
		SRO	IAP IP	1 32	50.7										
			IAP IP	1 33	23.0										
			IAP IP	1 35	30.7	5.8									
			LMH	1 41	0.0										
603	AUG 8	SPC BRA	IAP IP	19 10	24.0	-2.1									
			IAP IP	19 10	28.0	0.2									
			IAP IP	19 10	35.0	-12.9									
			IAP IP	19 10	48.0	12.9									
		SRO	IAP IP	19 10	36.0	-1.1									
			BP	19 29	4.0	-0.9									
604	AUG 8	SPC BRA	BPCP LMV	19 28	59.7	-1.4									
			EPCP ESCS	20 4	0.0										
		SRO	IAP IP	19 29	28.0	19.3									
			IAP IP	19 29	35.6	7.4									
			LMH	20 4	0.0										
		BRA	BP	19 29	4.0	-1.1									
605	AUG 9	SPC BRA	IAP IP	23 30	10.1	-1.4									
			IAP IP	23 30	12.0	0.7									
			IAP IP	23 30	44.0	-7.6									
		SRO	EPP	23 30	48.0	-9.6									
			BP	15 45	29.0										
606	AUG 9	SRO BRA	E	17	3	33.0									
			E	17	3	33.0									
		SRO	E	17	3	41.0									
607	AUG 9	SRO BRA	E	20	20	36.0									
			E	20	20	53.0									
		SRO	I	20	21	23.0									
608	AUG 9	SRO BRA	E	20	20	53.0									
			E	20	21	23.0									

609	AUG 9	BRA	ESG	22	23	6.0	4.0								
610	AUG 11	SPC SRO HRB	EP IP EPP	1 21	23.0	0.7									
			IP	1 21	37.0	2.6									
			EPP	1 21	41.0	6.0									
			LMH	1 21	23.0	11.3									
			IP	1 21	40.0	-0.5									
		BRA	IP	1 21	16.0	-2.4									
611	AUG 11	SRO BRA	EP EAP ESS	5 20	9.0	-0.1									
			IP	5 20	23.0	-5.1									
			ESS	5 31	40.0	-0.5									
			E	5 31	40.0	-0.5									
612	AUG 11	SPC SRO	EXP IAPP LMV	7	9	43.0	2.6								
			IP	7	11	11.8	5.7								
			LMV	7	28	0.0									
613	AUG 11	SPC SRO	EP IP ISS	20	12	55.6	3.0								
			IP	20	14	14.0	-1.9								
			ISS	20	13	5.0	0.3								
			IP	20	14	49.0	7.2								
		BRA	IP	20	22	9.0	7.4								
			IP	20	31	0.0									
		BRA	IP	20	13	11.0	0.1								
			IP	20	14	32.0	-2.2								
			IP	20	14	47.0	-2.2								
			ESCS	20	18	2.0									
			ESCS	20	23	11.0	0.9								
614	AUG 11	SPC SRO	EXP IP ISS	21	29	12.0	0.8								
			IP	21	47	0.0									
			ISS	21	26	21.0	2.6								
		BRA	IP	21	48	0.4	11.8								
			IP	21	29	18.0	-0.6								
		BRA	IP	21	31	22.0	5.5								
			IP	21	33	10.0	0.0								
		BRA	IP	21	49	0.0									
615	AUG 11	BRA	EP EPP	23	26	38.0	-0.7								
			EPP	23	28	11.0	-5.9								

No.	Date	St. Code	Phase	h	GMT m	s	RES Q-C	Z	E-W	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
616	AUG 12	SRO BRA	I PKKP I PKP2	3 12	13.3	0.0							145.18 145.27	30.38 28.21	P1J1 Region 16.03 S 179.16 W H = 2 52.38.0 Depth = 26 km MB = 5.6	/TSC/	
617	AUG 12	BRA	I PG	12	25	42.0											No determination of epicentre
618	AUG 12	BRA	BAP EPP	14	22	48.0	-5.4						41.17	80.29	Southern Sichuan Province 39.50 N 74.10 E H = 14.15 0.1 Depth = 39 km MB = 4.7	/TSC/	
619	AUG 12	SRO	21 40 52.0	-1.9	21	44	0.0						95.16	302.97	Guerrero, Mexico 17.50 N 100.57 W H = 21 27.15.8 Depth = 44 km MB = 5.0	/TSC/	
620	AUG 12	SRO	E	22	22	2.0										No determination of epicentre	
621	AUG 13	BRA SRO	-IP IP ISCS LMH	3	58	24.8	-0.4						79.87 80.08	9.60 10.34	Andreean Islands 51.49 N 178.11 W H = 3 46.19.9 Depth = 47 km MB = 5.7	/TSC/	
622	AUG 13	SRO	I APKHKP	6 12	45.5	0.4							145.07	30.59	P1J1 Region 15.97 S 179.32 W H = 5 53.7.0 Depth = 22 km MB = 5.2	/TSC/	
623	AUG 13	SRO	I APKHKP	7 29	53.5	-1.8							144.88	30.39	P1J1 Region 15.75 S 179.28 W H = 7 20.15.9 Depth = 33 km MB = 4.8	/TSC/	
624	AUG 13	SPC SRO	BAPKHP I APKHKP	13 12	23.4	1.9							143.09 144.94	32.67 30.72	P1J1 Region 15.87 S 179.44 W H = 12 52.46.1 Depth = 40 km MB = 5.5	/TSC/	
			LMH	13 12	25.5	-1.0							2.0 24.0	3.0 24.0	6.0	145.03	28.56
			EYK P2	13 12	20.0	0.0											
			BAPKHP	13 12	26.0	-0.7											
			I APKHKP	13 12	42.0	10.4											
			E	13 13	33.0												

1974

625	AUG 13	SRO	I APKHKP I APKHKP	14 1	9.5	10.1							145.06	30.53	P1J1 Region 15.95 S 179.29 W H = 13 41.29.0 Depth = 31 km MB = 4.9	/TSC/	
626	AUG 13	BRA	IP I	14 16	4.0											No determination of epicentre	
627	AUG 13	SPC SRO	EPK P2 I APKHKP	15 5	27.0	0.9							147.20 147.55 148.42	121.80 122.25 122.58	West of Macquarie Island 55.43 S 146.38 E H = 14 45.42.5 Depth = 33 km MB = 5.4	/TSC/	
			BRA	IPK P2	15 5	29.5	0.3										
			IPK P2	15 5	27.0	-4.0											
			E	15 6	30.0	-1.0											
			E	15 7	35.0												
628	AUG 14	BRA	IP I	5 46	57.0	-1.7							79.86	9.63	Andreean Islands 51.49 N 178.17 W H = 5 34.53.9 Depth = 51 km MB = 5.6	/TSC/	
			I	5 46	25.0												
			E	5 48	25.0												
			IP	5 50	27.0												
			IPS	5 47	1.6	1.8											
			LMH	6 24	9.5	18.9											
629	AUG 14	BRA	IP E	11 4	32.0								1.0 20.0	2.0 20.0	5.5		No determination of epicentre
630	AUG 14	SPC	BAPKHP BAPKHP	21 34	15.7	-1.9											
			IP	21 34	26.3	4.1											
			IS	21 34	28.0	3.0											
631	AUG 15	SRO	E	22 30	33.5											No determination of epicentre	
632	AUG 16	BRA	IP I	9 53	28.0	0.6							79.97	9.44	Andreean Islands 51.42 N 177.85 W H = 9 41.31.1 Depth = 43 km MB = 5.6	/TSC/	
			SRO	IP	9 54	23.0											
			IS	10 3	38.0	-0.5											
			LMH	10 31	0.0	-0.7											
633	AUG 16	BRA	E	12 34	25.0											No determination of epicentre	
634	AUG 16	BRA	E	13 12	4.0											No determination of epicentre	
			I	13 12	24.0												

No.	Date	St. Code	Phase	h	GMT	s	Z			E-W			N-S			MPV	MLH	Delta Azimuth	Remarks
							A	T	RES 0-C	A	T	A	T	A	T				
635	AUG 17	BRA	EP IAP E	5 24	11.0	-0.6										68.06	29.84	Sea of Okhotsk H = 589 N 144.09 E H = 513 12.7 Depth = 29 km MB = 5.4 /ISC/	
636	AUG 17	BRA	E	11 23	6.0														No determination of epicentre
637	AUG 17	SPC	EP	23	58	25.8	0.2									38.88	84.04	Tadzhikistan - Sintiang H = 23 50 59.0 Depth = 15 km MB = 4.8 /ISC/	
638	AUG 18	BRA SRO	EPP +12P LNUH EPKTP LINY	11 13	4	17.0	4.1									117.54	242.48	Near Coast of Central Chile H = 34 N 72.27 W Depth = 19 km MB = 5.9 /ISC/	
639	AUG 18	SPC	EPP ESE	13 13	4	19.8	-7.0									1.58	326.95	Poland H = 50 N 18.90 E Depth = 13 33 28.0 /ISC/	
640	AUG 19	SRO	E IP CP LNUH	12 12	29	26.0	-3.4									83.65	46.16	South of Honshu H = 12 N 130.0 Depth = 6 km MB = 5.1 /ISC/	
641	AUG 20	SPC	IP IXP BRA IP CP ESE	20 20	56	51.7	3.4	210	1.3							83.98	45.36	Near Islands H = 52 N 174.95 E Depth = 20 44 59.8 /ISC/	
642	AUG 21	SRO	E IP SRO IPSS LNUH	21 21	45	37.8										76.75	15.69	H = 20 N 112.13 Depth = 38 km MB = 5.7 /ISC/	
643	AUG 21	SRO	E	10 10	0	50.0										78.41	14.44	No determination of epicentre	
																		No determination of epicentre	

644	AUG 21	SRO	E	13	8	58.0										9.96	171.82	London Sea H = 37.91 N 20.10 E Depth = 1.3 2.54.0 MB = 4.1 /ISC/
645	AUG 22	BRA	LPG	11	4	32.0										1.47	90	PJL Region H = 29.95 S 178.42 W Depth = 11 49 15.8 MB = 5.1 /ISC/
646	AUG 22	SPC	EPKTP BRA EPKTP	12	7	58.8	-2.7									1.49	87	PJL Region H = 20.70 S 178.42 W Depth = 11 49 15.8 MB = 5.1 /ISC/
647	AUG 23	SPC	EPP ESKEDP	5	9	5.5	-1.4									106.92	81.81	Banda Sea H = 109.14 S 127.48 E Depth = 4 50 35.1 MB = 5.6 /ISC/
648	AUG 24	BRA	IP IAP IEP SRO ISCS LNUH	10 10	53	16.5	0.0	180	1.0							6.0	79.67	3.34 Fox Islands H = 52.44 N 168.27 W Depth = 10 41 11.5 MB = 5.7 /ISC/
649	AUG 24	BRA	EPP EPP SRO	10 10	54	27.5	-1.0									6.7	79.97	4.09 No determination of epicentre
650	AUG 24	BRA	E	15	7	41.0										40.96	80.70	Tadzhikistan - Sintiang H = 39.36 N 73.69 E Depth = 11 21 48.9 MB = 4.8 /ISC/
651	AUG 24	BRA	E	16	57	53.0												No determination of epicentre
652	AUG 24	BRA	EAPKTKP	18	52	15.0	1.3									152.06	22.28	Tonga H = 18 N 32.17.8 Depth = 33 km MB = 4.8 /ISC/
653	AUG 24	SRO	E	22	14	41.0										9.92	170.85	Greece H = 38.00 N 20.30 E Depth = 22 8 43.0 MB = 4.1 /ISC/

No.	Date	St. Code	Phase	h	GMT	s	BES		Z		E-W		N-S		MPV	MLH	Delta	Azimuth	Remarks	
							C	C	A	T	A	T	A	T						
669	AUG 29	SPC BRA	BPKKP EFKP2	17 18 44.5	2.3										144.10	23.74	Tonga			
				17 18 45.0	-0.4										145.81	19.16	15.12 S 173.90 W	H = 18.59 17.0		
670	AUG 30	BRA SPC SRO	IPX IP	15 12 40.3	-0.3	70	1.0								5.8	85.37	324.23	Nevada N.E.	MB = 4.9 /TSC/	
				15 13 43.0	0.7										85.72	325.41	37.15 N 116.08 W	H = 15.0 0.2		
671	AUG 30	SRO EPG		17 44 24.9	7.9											3.81	153.68	Yugoslavia		
		E	LMH	18 16 40.3	0.0										4.37	20.67	44.37 N 20.67 E	H = 17.43 0.9		
		BRA	EN	17 44 47.0	-5.4										4.53	145.64	Depth = 33 km	/TSC/		
		SPC	ESG	17 45 38.0	7.3										4.53	145.64				
		EPG		17 44 36.0	-0.6															
		ESG		17 45 38.0	0.7															
672	AUG 30	SPC EFCP2		23 42 4.0	0.5										85.22	47.36	South of Honshu			
		EPP		23 45 23.6	4.5										87.43	45.05	30.55 N 142.06 E	H = 23.29 23.1		
		EP		23 42 10.0	-0.7										146.97	50.67	Loyalty Islands Region			
				23 45 39.0	1.2										146.97	48.56	22.55 S 170.87 E	H = 11.14 3.0		
															146.97	48.56	Depth = 28 km	/TSC/		
673	AUG 31	SRO IPKP2		1 33 44.5	-0.5										83.43	95.41	Northern Sumatra			
		E	EFKIP	1 33 42.0	1.0										146.97	97.95	0.62 N 97.95 E	H = 18.5 8.0		
		EP		1 34 25.0											83.43	95.41	Depth = 63 km	MB = 4.5 /TSC/		
674	AUG 31	BRA EP		18 17 30.0	0.2													No determination of epicentre		
		EXP		18 16 44.0	9.5															
675	AUG 31	BRA E		23 50 3.0																
		E		23 50 24.0																
676	SEP 2	SPC IPCP		4 45 56.6	0.3										86.19	98.65	Southern Sumatra			
		EPP		4 46 6.0	2.3										88.12	96.24	2.79 S 101.21 E	H = 4.33 17.4		
		EP		4 46 6.0	1.2													Depth = 8 km MB = 5.2 /TSC/		

677	SEP 3	SPC SRO BRA	EPCP IP	1 52 19.5	-0.5										84.08	45.23	South of Honshu		
			I	1 52 30.2	2.0										85.96	44.78	32.13 N 142.1 E	H = 1.39 43.0	
				1 53 28.0	1.4										86.27	43.94	Depth = 8 km	MB = 5.2 /TSC/	
678	SEP 3	SPC SRO BRA	IP EPP	6 7 20.5	2.5										82.07	71.40	Philippine Islands Region		
			P	6 10 21.5	-16.7										83.74	69.85	18.26 N 119.20 E	H = 5.55 9.7	
			I	6 7 26.2	-0.3										84.37	69.02	Depth = 34 km	MB = 5.9 /TSC/	
				6 7 40.2	0.5														
				6 8 5.2	10.7														
				6 11 11.0	14.4														
679	SEP 3	SPC SRO BRA	IPP IP	19 48 45.6	2.5										38.77	83.84	Tadzhikistan - Sinkiang		
			P	19 50 3.0	-13.6										40.23	80.95	39.42 N 73.74 E	H = 1.9 41.28	
			I	19 48 32.2	-0.2													Depth = 43 km MB = 5.3 /TSC/	
				19 59 4.2	8.4														
				19 57 0.0	0.0														
				19 49 0.0	-1.3														
				19 50 3.0	-5.7														
				19 51 3.0	1.4														
680	SEP 4	BRA E		4 9 48.0														No determination of epicentre	
681	SEP 4	SRO BRA	IP LMH	6 32 52.2	1.2										15.15	195.64	Mediterranean Sea		
			P	6 36 36.2	0.0										15.4	33.09	40.24 N 14.76 E	H = 6.29 14.0	
			I	6 22 50.4	-2.6										15.31	191.53	Depth = 0 km MB = 5.2 /TSC/		
682	SEP 4	SRO BRA E		8 54 0.0														No determination of epicentre	
683	SEP 4	SRO BRA	IP E	9 32 3.0	-0.8														
				9 33 14.0															
684	SEP 4	SRO BRA E		9 40 28.0														No determination of epicentre	
685	SEP 4	SRO BRA	IPP I	11 7 2.6														No determination of epicentre	
			P	11 7 6.6															
686	SEP 4	SRO BRA E		12 42 22.0														No determination of epicentre	

No.	Date	St. Code	Phase	h	GMT m	RES O-C	Z	E-W	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
687	SEP 4	BRA	E	16	48	44.0									No determination of epicentre
688	SEP 5	BRA	E	0	5	12.0									No determination of epicentre
689	SEP 5	BRA	EAP	8	0	39.0	-1.2								
690	SEP 5	BRA	E	8	42	2.0									No determination of epicentre
691	SEP 5	BRA	E	11	2	40.0									No determination of epicentre
692	SEP 5	SRO	E	11	40	52.0									
		BRA	I	11	42	10.2									
		EP	EPP	11	37	48.0	-2.3								
		SPC	EAP	11	37	59.0	-3.0								/TSC/
693	SEP 5	SPC	EPP	18	33	56.0	-2.6								
		EPP	EPP	18	34	5.0	1.8								
694	SEP 6	SPC	EAP	15	31	29.7	-4.1								
		BRA	EPP	15	33	11.0	-7.4								
695	SEP 6	SPC	EAPKHP	20	55	30.3	-1.0								
		BRA	EPP2	20	55	31.0	-1.7								
		EAPKHP	EAPKHP	20	55	9.0	12.7								
696	SEP 6	SPC	EAPKHP	23	45	43.5	0.3								
		SRO	EPPKHP	23	45	28.0	1.5								
		BRA	EPPKHP	23	45	29.0	1.6								
		EAPKHP	EAPKHP	23	45	42.0	-4.5								
		E	E	23	48	25.0									

697	SEP 7	BRA	EP	19	52	9.3	4.9								
		IAP	E	19	53	21.3	1.2								
		SRO	I	19	53	33.0									
		EP	EP	19	52	28.2									
				19	52	20.7	4.1								
698	SEP 7	SPC	EPP	20	56	44.0	6.0								
		EPP	EPP	21	0	40.0	6.5								
		IAP	IAP	20	57	4.2	-2.3								
		IAP	IAP	21	0	40.2	-2.2								
		IAP	IAP	21	48	0.0									
		IAP	IAP	20	56	50.3	3.7								
		IAP	IAP	20	57	15.3	5.0								
		IAP	IAP	21	0	47.3	-1.7								
		I	I	21	6	2.3									
		E	E	21	6	17.0									
699	SEP 8	BRA	EPPKHP	5	35	30.0	-0.8								
700	SEP 8	SRO	EP	19	12	10.0	-4.5								
		IAP	E	19	15	12.2									
		ESS	E	19	14	29.0	-3.6								
		E	E	19	16	39.0	7.5								
701	SEP 9	BRA	EPP	12	51	23.0	1.7								
		ESS	ESS	12	52	15.0	-3.3								
702	SEP 9	BRA	EPN	22	58	9.0	0.7								
703	SEP 10	BRA	I	13	0	3.0									
704	SEP 10	BRA	IPO	13	54	20.0									
705	SEP 10	BRA	IPO	21	26	5.0	2.6								
		IPO	IPO	21	27	41.0	-0.7								
		E	E	21	27	15.0									

1974																				
No.	Date	St. Code	Phase	h	m	s	GMT		RBS	C-C	2	E-W	N-S	A-T	MPV	MLH	Delta	Azimuth	Remarks	
706	SEP 11	BRA	EPKIKP EAPNIKP	1 36	52.0	-3.1										159.12	37.86	Kermadec Islands H = 30.35 S 177.58 W Depth = 17 km MB = 5.3	/ISC/	
707	SEP 11	SRO BRA	ESG EXP ES E	5 17	24.0	8.0										7.84	172.51	Albania H = 40.03 N 19.64 E Depth = 5.12 km MB = 4.5	/ISC/	
708	SEP 11	BRA	EPKIP2 EAPNIKP	16 37	27.0	-1.3										146.09	17.59	Samoa Region H = 15.20 S 172.95 W Depth = 33 km MB = 5.1	/ISC/	
709	SEP 12	BRA	EP	5 32	9.0	0.6									84.93	333.86	Off Coast of Northern California H = 41.82 N 126.95 W Depth = 3 km MB = 5.0	/ISC/		
710	SEP 12	BRA	EPP	6 12	26.0	2.2									41.30	80.65	Southern Sinkiang Province H = 39.23 N 74.09 E Depth = 3.1 km MB = 4.9	/ISC/		
711	SEP 12	BRA	E	17	42	12.0												No determination of epicentre		
712	SEP 12	BRA	EPCKP	20	27	34.0	-0.2								91.04	291.43	El Salvador H = 13.45 N 89.84 W Depth = 62 km MB = 4.9	/ISC/		
713	SEP 12	BRA	EPKPK2	20	37	33.0	0.6								146.03	17.30	Samoa Region H = 15.10 S 172.80 W Depth = 0 km MB = 4.7	/ISC/		
714	SEP 12	BRA	ESSG	20	53	29.0	11.8								1.16	316.33	Czechoslovakia H = 50.40 N 13.70 E Depth = 0 km	/ISC/		
715	SEP 13	SRO BRA	EP ESS EAP	8 5	19.0	-7.4									16.66	122.16	37°48'N 36°06'E H = 17.54 120.87 Depth = 4.5 km MB = 4.2	/ISC/		

1974																			Remarks	
No.	Date	St. Code	Phase	h	m	s	GMT		RBS	C-C	2	E-W	N-S	A-T	MPV	MLH	Delta	Azimuth	Remarks	
716	SEP 13	BRA	EP	8	1	10.0													No determination of epicentre	
717	SEP 13	BRA	IP	8 4	28.0	0.6													No determination of epicentre	
			IAP	8 4	38.0	-1.4													No determination of epicentre	
			EPP	8 7	27.0	15.2													No determination of epicentre	
			IP	8 4	29.0	1.3													No determination of epicentre	
			IXS	8 14	1.0	-0.6													No determination of epicentre	
			LMH	8 40	0.0														No determination of epicentre	
718	SEP 13	BRA	EP	10 0	28.0											6.3	72.82	20.16	Near East Coast of Kamchatka H = 55.25 N 177.53 E Depth = 40 km MB = 5.8	/ISC/
			I	10 0	33.0														No determination of epicentre	
719	SEP 13	BRA	IPG	11	59	23.0													No determination of epicentre	
720	SEP 13	SRO	E	12	15	29.0													No determination of epicentre	
721	SEP 13	BRA	E	12	54	2.0													No determination of epicentre	
722	SEP 13	SRO	ISS	18	27	33.5	-17.9												No determination of epicentre	
			IP	18	29	25.5	-0.4											No determination of epicentre		
			I	18	27	19.0												No determination of epicentre		
			E	18	29	25.0												No determination of epicentre		
			E	18	30	30.1												No determination of epicentre		
723	SEP 14	BRA	IPG	11	33	48.0													No determination of epicentre	
724	SEP 14	BRA	E	23	49	48.0													No determination of epicentre	
725	SEP 16	SPO BRA	EP	16	53	19.0	3.6									8.19	151.71	Greece		
			EP	16	53	36.0	2.3													
			IP	18	27	19.0	-0.4													
			I	18	27	18.0														
			E	18	29	25.0														
726	SEP 16	SPO BRA	EP	21	8	52.6	3.1									72.86	20.78	Turkey		
			IP	21	9	1.0	0.3													
727	SEP 16	SPO BRA	EP	22	7	26.8	1.4													
			IP	22	7	42.0	-0.0													
			E	22	8	59.0	-0.6													

736	SEP 20	SRC SRO	EPIKIP EPIKIP ESKPD ESKPD	19 44 10.2 19 44 27.0 19 47 19.5 19 47 12.0 19 44 12.0 19 45 17.0	-4.7 -19.5 -4.4 -6.7					157.23 159.11 159.28	38.39 36.49 33.30	Tonga Region 29°56' S 15°58' W H = 19 24 32.0 Depth = 105 km MB = 5.1	/TSC/		
		BRA										No determination of epicentre			
737	SEP 20	SRC BRA	E IP	20 5 15.0 20 5 14.2											
738	SEP 20	SRO	EPIKIP ESP LMH	21 38 51.0 21 49 51.0 22 22 50.0	2.2 2.0 1.0					119.33 119.90	64.33 63.05	Eastern New Guinea Region 6°20' S 146.10' E H = 21 20 11.8 Depth = 105 km MB = 5.8	/TSC/		
		BRA	EPIKIP EPIKIP EPIKIP EPIKIP ISKPDP	21 38 51.2 21 38 53.2 21 39 21.0 21 40 52.0 21 42 16.2	1.3 2.2 2.2 3.9	2.0 20.0	4.0 20.0								
739	SEP 21	BRA	E EPP	3 31 15.0 3 32 3.0	-3.5					109.33	77.63	Banda Sea 6°39' S 129.07' E H = 3 13 1.0 Depth = 5 km MB = 5.3	/TSC/		
740	SEP 21	BRA	EAPKIP EAKP2	11 42 17.0 11 42 49.0	-6.6 1.8					154.00	27.50	South of Tonga 24.18' S 175.70' W H = 11 22 19.0 Depth = 81 km MB = 4.7	/TSC/		
741	SEP 21	SRO	IPKHKP IPIP LMH	13 0 19.3 13 1 26.3 13 3 59.0	6.3 -7.5					153.48	30.21	Tonga Region 24.78' S 175.88' W H = 12 40 26.0 Depth = 68 km MB = 5.4	/TSC/		
		BRA	IAPIKIP IAPKP2 IPIP	14 5 0.0 13 0 7.2 13 0 28.2 13 1 4.2 13 1 13.2 13 4 10.0	-1.5 -0.2 -0.2 13.4 3.0	2.0 20.0	3.0 20.0	6.1	153.57	27.54					
742	SEP 21	SRO BRA	IP IPIP IPIP E EKS	16 6 25.0 16 6 25.3 16 6 56.3 16 9 29.2 16 10 8.0 16 16 39.0	-0.6 0.3 12.5 -2.2					74.43 74.45	24.72 24.07	Kamchatka 52.19' N 157.44' E H = 15 54 59.1 Depth = 119 km MB = 5.7	/TSC/		
743	SEP 21	BRA	EPP E	17 23 24.0 17 24 15.0	-6.3							104.26	251.03	Northern Chile 23.45' S 68.58' W H = 17 5 14.4	

No.	Date	St. Code	Phase	h	GMT	s	RES	Z	A	T	A	T	N-S	A	T	MPV	MLH	Delta Azimuth	Remarks
							O-C												
744	SEP 21	BRA	EPKIKP EPKIP2	19 45	34.0	4.9										150.70	34.43	South of Fiji 22.32 S 177.72 E H = 19 26 45.0 Depth = 580 km MB = 5.1	/ISC/
745	SEP 22	BRA	E	0 28	22.0														No determination of epicentre
746	SEP 23	SRO	IP	19 36	58.2	2.0										48.14	187.37	Gabon 0.28 S 12.83 E H = 19 28 18.3 Depth = 41 km MB = 5.9	/ISC/
			IPP	19 38	59.2	2.2													
			ISP	19 44	52.2	3.5													
			IP	19 48	14.2														
			LMH	20 02	0.0														
			IP	19 36	58.1	-0.1													
			IPCIP	19 37	43.1	-1.5													
			E	19 40	41.0														
			E	19 41	39.0														
			E	19 45	12.0														
747	SEP 24	BRA	EP EAP	2 8	0.0	-2.1										61.35	258.06	North Atlantic Ridge 13.66 N 44.93 W H = 1 27 44.7 Depth = 16 km MB = 5.0	/ISC/
748	SEP 24	BRA	EPG ESN E	10 49	19.0	-1.9										0.95	134.56	Hungary 47° 50' N 18.10 E H = 10 49 2.0 Depth = 33 km	/ISC/
				10 49	36.0	-0.7													
				10 50	7.0														
749	SEP 25	BRA	E	12 1	54.0											1.84	330.03	Czechoslovakia, Explosion 49.75 N 15.69 E H = 12 0 2.0 /ISC/	
750	SEP 25	BRA	EAPKIKP	16 8	48.0	6.0										125.05	61.97	Eastern New Guinea Region 9.80 S 149.95 E H = 15 49 29.0 Depth = 3 km MB = 5.4	/ISC/
751	SEP 26	BRA	SPC IXP IP	15 17	41.2	0.8										85.39	324.22	Southern Nevada, N.E. 37.13 N 116.07 E H = 15 5 0.0	/ISC/
				15 20	42.6	1.2													
				15 20	53.6	-9.3													

752	SEP 27	SRO	EP IP	3 22	28.0	1.9										82.29	46.13	Off East Coast of Honshu 33.67 N 141.30 E H = 3 10 6.8 Depth = 35 km MB = 5.7	/ISC/
			IS	3 22	32.4	-3.3													
			ISS	3 33	32.4	3.7													
			LMH	3 35	32.4	3.4													
			IP	3 57	0.0														
			IP	3 22	38.0	0.7													
			IP	3 23	4.0	11.5													
			IP	3 26	13.0	18.6													
			E	3 29	6.0														
753	SEP 27	BRA	IPCP IP	4 21	44.8	-1.0										86.97	270.68	Colombia 2.72 N 71.37 W H = 4 1.6 Depth = 44 km MB = 5.5	/ISC/
				4 22	16.8	15.3													
				4 24	30.8														
				4 27	11.8														
				4 29	39.8														
				4 21	48.0	0.8													
754	SEP 27	SRO	IAP BRA	5 36	B.4	0.4										54.45	85.13	Nepal 2.59 N 85.51 E H = 5 26 33.6 Depth = 20 km MB = 5.5	/ISC/
			IP	5 36	7.5	-0.0										55.23	84.53		
			EP	5 38	16.6	4.0													
755	SEP 27	SRO	IP	5 59	28.4	0.0										87.79	271.59		
			IS	6 32	24.0	-0.5													
			LMH	6 32	27.6	-1.8													
			IP	5 59	32.6	-6.0													
			IPCP	5 59	46.6	8.0													
			IS	6 9	25.6	2.2													
			LMH	6 38	0.0														
756	SEP 27	BRA	IPG	10 0	3.7													No determination of epicentre	
757	SEP 27	BRA	IPG	11 50	19.6													No determination of epicentre	
758	SEP 27	BRA	E	12 1	37.6													No determination of epicentre	
759	SEP 28	BRA	EPKIKP IPKP2	0 2	44.0	1.5										152.91	39.10	South of Fiji 25.29 S 178.61 E H = 23 43 59.6 Depth = 590 km MB = 5.5	/ISC/
				0 3	8.0	1.0													
760	SEP 28	BRA	EPKIKP	7 3	53.0	1.9										146.23	48.91	Loyalty Islands Region 22.03 S 170.26 E H = 7 11 17.0 Depth = 47 km	/ISC/

No.	Date	St. Code	Phase	h	GMT m	s	RES O-C	Z	E-W	A	T	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks
761	Sep 28	BRA	EP	21	6	7.0	0.7									84.67	44.43	South of Honshu 33°20' N 140.87 E H = 20 km Depth = 53.37 km MB = 4.6	/TSC/
762	Sep 29	SRO	EP LMH	6	38	44.0	-10.7									14.31	146.63	Dodecanese Islands 35.40 N 27.89 E H = 6 km Depth = 35.33 km MB = 4.6	/TSC/
763	Sep 29	BRA	IP E	14	1	36.0	-3.4									84.62	44.43	South of Honshu 33°24' N 140.84 E H = 13 km Depth = 49 km MB = 4.6	/TSC/
764	Sep 29	SRO	IP	15	59	41.0	-5.5									42.55	77.32	Kirishima-Shinkeng 40.30 N 135.51 E H = 15 km Depth = 24 km MB = 5.3	/TSC/
765	OCT 1	SRO	E ES	0	39	19.0	-6.2									8.12	177.29	Southern Italy 39.70 N 18.81 E H = 0 km Depth = 34 km MB = 3.8	/TSC/
766	OCT 1	SRO	EP EPP ESP LMH	4	21	23.0	5.1									8.55	171.12	H = 0 km Depth = 34 km MB = 4.0	/TSC/
767	OCT 3	BRA	E	8	54	10.0												No determination of epicentre	
768	OCT 3	BRA	EP EPP ESP LMH	14	35	26.0	0.2	110	1.0							102.12	265.21	Near Coast of Peru 12°24' S 77.58 W H = 14 km Depth = 21 km MB = 6.2	/TSC/
		SRO	IP E LMH	14	35	38.0	-6.9												
				15	23	0.0	0.2												
				14	36	29.7	0.5												
				15	12	0.0													
769	OCT 4	BRA	EP	11	5	32.0												No determination of epicentre	
770	OCT 4	BRA	E	12	15	29.0												No determination of epicentre	

No.	Date	St. Code	Phase	h	GMT m	s	RES O-C	Z	E-W	A	T	N-S	A	T	MPV	MLH	Delta	Azimuth	Remarks	
771	OCT 4	BRA	E	12	44	26.0													No determination of epicentre	
772	OCT 4	BRA	EP	17	47	49.0	-1.5									74.62	22.94	Off East Coast of Kamchatka 52°51' N 159.17 E H = 17 km Depth = 36 km MB = 4.8	/TSC/	
773	OCT 4	BRA	EP E	18	7	18.0	-1.6									74.80	22.56	Off East Coast of Kamchatka 52°50' N 159.83 E H = 17 km Depth = 33 km MB = 4.8	/TSC/	
774	OCT 4	SRO	-IP IPCP IS +IP IAP	22	32	29.0	-3.9	2090	4.0							6.2	43.25	102.02	Pakistan 26°38' N 66.65 E H = 22 km Depth = 24 km MB = 5.7	/TSC/
				22	34	25.0	2.8									5.8	44.12	101.31		
				22	39	5.0	7.6													
				22	32	40.1	0.2	270	1.5											
				22	32	42.0	-7.4													
775	OCT 4	BRA	EP	22	47	10.0	-0.5									75.21	22.35	Off East Coast of Kamchatka 52°21' N 160.11 E H = 22 km Depth = 35 km MB = 5.2	/TSC/	
776	OCT 5	BRA	E	16	54	49.0													No determination of epicentre	
777	OCT 7	SRO	EAP SPC EXP	11	45	40.0	2.0									8.03	176.65	Southern Italy 29.79 N 18.92 E H = 11 km Depth = 43 km MB = 4.4	/TSC/	
				11	48	28.0	-5.0									9.45	186.23			
				11	46	4.0														
778	OCT 7	SRO	I	22	18	36.0										112.03	204.16	South Sandwich Islands Region 56.08 S 27.26 W H = 21 km Depth = 53 km MB = 5.5	/TSC/	
779	OCT 8	SRO	IP IS LMH SPC IP	10	2	12.0	-0.6									70.88	274.93	Leeward Islands 17.37 N 61.99 W H = 9 km Depth = 41 km MB = 6.4	/TSC/	
				10	6	40.0														
				10	11	28.0	4.4													
				10	16	0.0														
				10	2	22.7	3.2													
780	OCT 9	SRO	IP IS LMV HRB ES SRO IXP	7	43	53.5	3.0									76.80	34.26	Kurile Islands Region 44.64 N 150.09 E H = 7 km Depth = 34 km MB = 6.3	/TSC/	
				8	19	0.0	5.7													
				7	44	55.8	2.7									78.65	32.82			
				7	44	1.0	0.2									78.66	32.89			
				7	44	18.0	2.6													

No.	Date	St. code	Phase	h	GMT	RES	Z	B-W	N-S	MPV	MLH	Delta	Azimuth	Remarks
				m	s	Q-G	A	T	A	T				
		IS	IMH	7	53	52.0	-2.1							
		BRA	EP	8	19	2.0	0.5	480	6.0	31.3	20.0	24.0	18.0	5.7
		EXP	7	44	2.0	0.8								
		ES	7	53	17.0	-0.5								
781	OCT 10	SPC BRA	IPK2 EPHKP	2	5	58.6	-3.8							
				6	0.0									
782	OCT 11	BRA	EPG ESB	4	4	24.0	-2.1							
				5	0.0	-1.2								
783	OCT 10	BRA	ESB	5	18	10.0	-0.1							
784	OCT 10	SRO	+IP	7	0	19.0	1.8							
		I	IMH	7	8	55.0								
		IP	IPCP	7	18	55.0								
		BRA	E	7	0	10.5	-7.9							
		IPCP	E	7	0	20.5	-6.6							
		E	E	7	5	19.0								
				7	5	45.0								
785	OCT 10	BRA	EP	7	8	52.0	-0.7							
786	OCT 10	SRO	+IPOP	21	45	9.0	0.8							
		E	IPOP	21	47	39.0								
		IP	ESS	21	55	51.0	-0.7							
		IP	EP	21	45	12.2	0.6							
		E	EP	21	48	40.0	-7.4							
787	OCT 11	SPC SRO BRA	EAKF2 EPFP2 EPHKP2	8	54	2.0	-3.1							
				8	53	53.0	-1.6							
				8	53	44.0	1.9							

788	OCT 11	BRA	IPG	11	50	43.0								No determination of epicentre
789	OCT 11	BRA	E	13	12	46.0								No determination of epicentre
790	OCT 11	SPC BRA	EP	18	22	53.0	0.7							No determination of epicentre
			EP	18	23	4.0	0.9							
791	OCT 12	SPC BRA	IP IP	4	59	28.8	1.0							
				4	59	39.0	-0.3							
792	OCT 12	SRO BRA	EP ES	6	27	0.0	1.5							
			EP	6	37	0.0	1.9							
			ES	6	59	0.0	0.0							
				6	27	0.0	0.2							
793	OCT 12	SPC BRA	EP EP	12	57	26.8	2.5							
			EP	12	57	39.0	3.1							
794	OCT 12	BRA	EP	16	29	35.0	0.8							
795	OCT 12	BRA	EPKF2	19	18	22.0	-2.0							
796	OCT 13	BRA	E	3	56	52.0								No determination of epicentre
				11	56	11.0								
797	OCT 13	BRA	E	11	57	0.0								
798	OCT 14	SRO BRA	ESB IPE ISN	4	13	27.0	2.6							
			IPE	4	12	22.6	-4.1							
			ISN	4	13	12.0	-9.0							

No.	Date	St. Code	Phase	GMT h	m	s	RES O-C	Z A	T A	E-W T	A	N-S T	A	MPV	M/H	Delta Azimuth	Remarks		
799	OCT 14	SPC	IP EPP	14 23	40.8	-1.9	-4.1							6.4		77.62	40.55	Off East Coast of Honshu 40°64' N 142°69' E H = 14.11 44.2 Depth = 13 km MB = 5.4 /TSC/	
		SRO	IP LMV	14 23	31.7	0.0										79.50	39.13		
			IP CP	14 24	51.0	1.8		990	2.0										
			IS LMH	14 33	11.0	13.5													
		BRA	EP	15 23	51.0	2.0													
800	OCT 15	SPC	IP EPP	14 28	47.0	-0.6										77.64	40.48	Off East Coast of Honshu 40°66' N 143°78' E H = 11.16 45.9 Depth = 12 km MB = 5.4 /TSC/	
		SRO	IP ESCS	14 39	40.0	-0.8										79.52	39.06		
			LMH IP	15 27	55.0	0.8													
		BRA	IP	15 28	55.0	-0.4													
801	OCT 15	SRO	EPN EPKP	9 58	43.0	-5.0										7.89	153.14	Greece 40°47' N 22°49' E H = 9.56 49.2 Depth = 0 km MB = 4.2 /TSC/	
		BRA	EPKP	10 1	39.0	0.2										8.60	148.55		
			EP	9 58	58.0	0.2													
802	OCT 15	BRA	EPIKRP	21 47	23.0	-0.9										159.09	38.74	Kermadec Islands 30°57' S 177°92' W H = 21.27 40.7 Depth = 42 km MB = 5.7 /TSC/	
			EPIK2	21 48	13.0	-0.1													
803	OCT 16	BRA	EPG ISB	3 44	9.0	10.1										5.42	275.25	Germany 48°38' N 9.00 E H = 3.42 10.8 Depth = 21 km /TSC/	
			ISB	3 45	1.0	5.4													
804	OCT 16	BRA	+IP IAP	5 51	41.0	-0.6		70	1.0							5.5	31.11	297.10	North Atlantic Ridge 52°71' N 32°00' W H = 5.45 11.2 Depth = 41 km MB = 5.7 /TSC/
			IAP	5 55	18.4	2.4													
			LMH EP	6 22	22.2	-12.7													
			EP	6 51	34.6	-1.1													
		SRO	+IP IAP	5 51	24.6	-0.2													
			IAP	5 55	10.6														
			ISX	5 57	6.6	4.6													
			LMH EP	6 8	0.0														
		SPC	EP	5 51	43.0	2.8													
			LMV	6 7	0.7														

805	OCT 16	SPC	IP	9 41	50.3	3.8										77.87	40.70	Off East Coast of Honshu 40°35' N 143°72' E H = 9.29 46.7 Depth = 8 km MB = 5.5 /TSC/
		SRO	IP	9 42	58.6	1.8										79.75	39.27	
		BRA	IP	9 41	57.2	-0.9										79.98	38.53	
			IP	9 45	9.2	3.3												
			IP	9 47	13.0	11.6												
			EP	9 47	9.0													
806	OCT 16	BRA	EPIKRP	17 49	22.0	2.3										121.33	61.00	New Britain Region 6°10' S 145°38' E H = 11.37 30°34.4 Depth = 70 km MB = 5.5 /TSC/
			E	17 50	6.0													
807	OCT 16	BRA	E	19 49	55.0													No determination of epicentre
808	OCT 17	BRA	E	11 54	31.0													No determination of epicentre
809	OCT 17	BRA	E	12 59	50.0													No determination of epicentre
810	OCT 18	BRA	EP	0 37	52.0	0.2									70.09	274.27	Leeward Islands 17°56' N 62°27' W H = 0.26 44.1 Depth = 60 km MB = 5.0 /TSC/	
			IAP	0 38	4.4	-4.0										72.07	276.21	
			EAP	0 38	17.6	-2.8												
811	OCT 18	SPC	E	2 45	23.4													No determination of epicentre
812	OCT 18	BRA	IPG	11 50	53.6													No determination of epicentre
			ISG	11 50	56.6													
813	OCT 18	BRA	IPK2	12 11	31.6	-2.0										147.37	16.90	Samoa Region 16°28' S 112°29' W H = 11.51 49.3 Depth = 33 km MB = 5.3 /TSC/
			EAPK2	12 12	3.0	18.8										147.46	19.17	
			EAPKHP	12 11	35.0	-0.8												
814	OCT 18	BRA	EP	14 14	33.0	-0.1												
815	OCT 20	BRA	EP	11 11	13.0											78.40	0.41	Unimak Island Region 53°51' N 163°53' W H = 14.23 34.6 Depth = 36 km MB = 4.8 /TSC/
																		No determination of epicentre

No.	Date	St. Code	Phase	h m s	GMT	RES	Z	E-W	N-S	A T	A T	MPV	MLH	Delta	Azimuth	Remarks
816	OCT 20	BRA	EP	11 27	57.0	-3.1							8.69	171.14		
			IPP	11 28	19.4	11.5										Southern Italy 39°57' N 18°48' E H = 11.25 km MB = 4.9 /ISC/
			IS	11 29	44.4	4.4										
			IP	11 31	2.4											
			IP	11 32	4.4											
			IP	11 34	20.4	-7.7										
			E	11 36	3.4											
817	OCT 20	BRA	E	11 56	3.0								77.91	38.28	Hokkaido Region 42°22' N 14°47' E H = 11.43 km MB = 5.2 /ISC/	
818	OCT 20	BRA	EPKIKP	15 46	37.0	1.4							125.16	54.96	Solomon Islands 6°57' S 154°75' E H = 15.27 km MB = 5.5 /ISC/	
819	OCT 21	BRA	IPKIKP	4 31	4.2	1.8							147.30	28.27	Fiji Region 17°57' S 178°49' W H = 12.38 km MB = 5.9 /ISC/	
			IPKIP2	4 33	27.2	3.4										
			IPKIP2	4 33	45.2	4.8										
			IPKIPF	4 36	22.0											
820	OCT 21	BRA	IP	12 59	46.5	1.1	140	1.0					5.9	73.57	Near East Coast of Kamchatka 53°50' N 160°40' E H = 12.48 km MB = 5.7 /ISC/	
821	OCT 22	SPC	EPCP	9 29	4.5	-1.0							82.78	99.31		
		SRO	EPCP	9 29	11.0	0.9							83.85	97.68		
		IP	9 29	29.0	4.4								84.70	96.81		
		IP	9 29	11.0	1.0											
		EXP	9 29	30.0	3.2											
822	OCT 22	BRA	EAP	12 12	10.0	0.0							27.85	316.39	Iceland Region 62°20' N 26°21' W H = 12.6 km MB = 4.7 /ISC/	
			EP	12 12	9.8	2.7							28.98	314.64		
823	OCT 23	SPC	EAPKIKP	6 33	57.0	1.6							123.97	59.46	D'Entrecasteaux Islands Region 8°40' S 154°03' E H = 6.14 km MB = 6.2 /ISC/	
		SRO	EAPKIKP	6 33	59.0	0.2							125.78	58.37		
		IP	6 35	19.0												
		IP	6 44	0.0												
		LHM	7 28	0.0												
		EAPKIKP	6 34	11.0	11.2								7.1	126.27	56.95	

824	OCT 24	BRA	IP	5 39	16.2								5.6	84.52	44.29	
			IP	5 39	29.2	1.5										
			IP	5 40	29.0	-1.9										
			IP	5 42	21.0	-1.3										
825	OCT 25	BRA	EPCP	0 18	28.0	-0.2							91.36	295.45		
			ES	0 19	8.0	-6.4										
			IP	0 19	21.0	13.8										
			IP	0 19	29.0	18.8										
			E	0 20	36.0											
			E	0 22	39.0											
826	OCT 25	BRA	EPKIKP	3 38	6.0	1.8							123.49	57.33	New Britain Region 6°27' S 152°18' E H = 3.19 km MB = 5.7 /ISC/	
			EP	10 1	47.0											
827	OCT 25	SRO	E	10 2	15.0											
		BRA	E	10 1	11.0											
828	OCT 25	BRA	EP	11 48	54.0	-2.8							14.27	158.60	Crete 34°46' N 23°37' E H = 11.43 km MB = 4.9 /ISC/	
			EP	11 47	3.0	-2.0										
			EXP	11 47	24.0	13.0										
			ESS	11 49	5.0	13.0										
829	OCT 26	BRA	IP	12 0	53.1											No determination of epicentre
			IP	12 0	55.0											
			IP	12 1	2.0											
830	OCT 27	BRA	IPKIP2	5 10	50.1	-0.3							146.11	48.38		
			IP	5 11	11.0	-1.2										
831	OCT 27	BRA	EAP	8 55	58.0	-3.0										
			EAP	8 56	11.0	3.5										
832	OCT 29	SRO	IPN	1 6	44.4	0.5							15.13	153.98		
			ISM	1 7	30.0											
			EBB	1 6	44.3	-0.9										
			ESN	1 7	0.0	0.4										
			TSG	1 7	0.0											

No.	Date	St. Code	Phase	h.	m.	s.	GMT	h.	m.	s.	RSS	2	E-W	N-S	MPV	MLH	Delta Azimuth	Remarks	
											O-C	A	T	A	T				
		BRA	IPN	1	6	9.0	-1.5									3.69	165.25		
			ISG	1	7	13.0	0.0												
			ISG	1	7	22.0	9.0												
			ISG	1	7	31.0	18.0												
			IMH	1	7	47.6													
			IPN	1	8	33.0													
			IPM	1	6	28.3	2.5												
			IPM	1	8	0.0													
833	OCT 29	BRA	EP	3	22	3.0	1.1									75.91	270.13	Near Coast of Venezuela	
																		H = 10.58 N 63.45 W	
																		Depth = 33 km MB = 5.0 /ISC/	
834	OCT 29	SPC	E	3	28	23.5										107.79	79.80	Banda Sea	
			SRO	IP	3	23	32.6	6.2								109.31	78.73	H = 6.93 S 129.52 E	
			IP	3	23	0.0												H = 3.14 18.6	
			IP	3	40	25.6												Depth = 156 km MB = 6.3 /ISC/	
			IMH	4	0	25.0													
			E	3	28	32.0													
			E	3	32	36.0	4.9												
			E	3	33	13.0	0.4												
835	OCT 29	BRA	EAPKHP	9	7	54.0	13.1									146.91	17.02	Samoa Region	
			E	9	8	18.0												H = 15.94 S 172.45 W	
																		H = 8.47 53.0	
																		/ISC/	
836	OCT 29	BRA	IPG	15	40	46.4										0.67	223.59	Austria	
																		H = 47.70 N 16.40 E	
837	OCT 29	BRA	IPN	18	1	24.3	1.0												H = 8.18 1.7.0
			ISN	18	1	39.3	4.7											/ISC/	
																		No determination of epicentre	
838	OCT 30	SPC	EP	16	19	43.7	3.2									79.87	55.80	Bougia Islands	
			IPM	16	58	0.0												H = 29.89 N 130.61 E	
			EAP	16	19	51.0	-1.5											H = 16.7 36.3	
			EXP	16	20	5.0	-3.4											Depth = 56 km MB = 5.3 /ISC/	
			E	16	20	5.0	5.3												
				16	21	7.0													
839	OCT 31	BRA	EAPKHP	7	6	24.0	-0.6									152.47	24.38	Tonga Region	
			EAPK2	7	7	11.0	19.8											H = 22.28 S 174.78 W	
																		H = 6.46 35.3	
																		Depth = 33 km MB = 4.8 /ISC/	

No.	Date	St. Code	Phase	h.	m.	s.	GMT	h.	m.	s.	RSS	2	E-W	N-S	MPV	MLH	Delta Azimuth	Remarks
											O-C	A	T	A	T			
840	OCT 31	BRA	E	7	23	48.0												
841	OCT 31	BRA	EPN	8	34	52.0												
			ISG	8	35	26.0												
			ISG	8	36	6.0												
842	OCT 31	BRA	E	15	14	35.0												
			E	15	15	4.0												
843	OCT 31	SRO	IPG	22	24	39.7	12.6											
			ISG	22	25	11.7	1.2											
			IP	22	25	39.7												
			IP	22	24	19.2												
			IP	22	24	25.2	-2.3											
			IP	22	25	4.2												
			ISG	22	25	31.2	5.9											
			ESN	22	25	9.0	-1.0											
			SPC	22	25	34.4												
844	NOV 1	BRA	EPRHKP	3	56	9.0	0.7									4.88	196.60	
																152.06	22.80	
845	NOV 1	BRA	EPN	10	42	14.0	2.7											
			RSN	10	42	45.0	-1.1											
			E	10	43	36.0												
846	NOV 1	BRA	E	11	26	50.0												
847	NOV 2	SPC	EP	5	5	29.0	-11.2									3.68	175.59	Yugoslavia
			IP	5	6	51.7	-4.7											H = 44.50 N 17.50 E
			IP	5	14	49.7												H = 22.23 21.0
			IP	5	6	56.4	-0.0											Depth = 0 km /ISC/
			IP	5	8	12.4												
			IP	5	15	17.4												
848	NOV 2	BRA	E	22	1	11.0												
849	NOV 2	SPC	EP	22	7	29.5	0.9											
			EP	22	7	40.0	0.1											

No.	Date	St. Code	Phase	h	GMT m	s	RES O-C	Z	E-W	A-T	A	T	N-S	MPV	MLH	Delta	Azimuth	Remarks				
884	NOV 14	SRO BRA SPC	IPP EP EP	14 14 14	29 29 29	18.4 15.0 0.4	-1.2 -7.1 0.4							9.94 10.59 10.89	158.14 153.44 168.44	Greece	38°48'N 23°01'E	/TSC/				
885	NOV 14	BRA	EP	15 15	32 33	13.0 7.0	-6.5							10.61	153.25	Greece	38°50'N 23°15'E	/TSC/				
886	NOV 14	BRA	ESB	17	12	10.0	-3.9							5.42	273.25	Germany	48°20'N 9°00'E	/TSC/				
887	NOV 15	SRO BRA	IP IPP LMH IP TAP E	23 23 23 23 23	45 48 21 45 45	2.5 1.4 0.0 3.9 0.9	1.0 2.1 0.0 1.0 1.0	5.4	16.0	4.5	16.0	6.1	6.2	82.29	43.57	Near East Coast of Honshu	35°45'N 141°10'E	/TSC/				
888	NOV 17	BRA	IPK2	1 20	20	1.5	-1.0							147.40	20.48	Philippine Islands Region	19°54'S 174°25'W	/TSC/				
889	NOV 17	BRA	IP	17	35	50.3	3.1	70	1.0					5.7	73.18	Near East Coast of Kamchatka	54°15'N 167°51'E	/TSC/				
890	NOV 18	BRA	IP EPP	18 18 18	15 16 19	32.5 32.5 5.0	1.6 1.6 18.6							83.91	66.07	Philippine Islands Region	20°54'N 122°22'E	/TSC/				
891	NOV 19	SRO BRA	IP IS LMH IP TAP EPP	4 4 4 4 4	7 18 59 52 8	47.3 9.3 0.2 52.6 11.6	-1.6 -0.2 0.0 0.6 2.7	4.1	24.0	5.9	24.0	6.0	6.0	84.56	67.79	Philippine Islands Region	19°00'N 121°39'E	/TSC/				
892	NOV 19	BRA	IPK2	5	59	5.5	-4.0									147.37	23.30	Philippines	18.04'S 178.48'W	/TSC/		
893	NOV 19	BRA	TAFKHP	7	9	55.6	-0.9								139.78	47.44	New Hebrides	H = 5 40°27'0 km MB = 5.1	/TSC/			
894	NOV 19	BRA	E	17	48	16.0												H = 6 50°29.5 km MB = 5.2	/TSC/			
895	NOV 20	BRA	EP	0	21	13.0	-0.0											No determination of epicentre				
896	NOV 20	SRO BRA	IPK2 IPP LMH *IPK2 ISPKBC I E	4 4 4 4 4 4 4	34 37 32 34 30 37 16	11.6 3.6 0.1 6.2 -3.2 2.6 15.2	2.8 -0.1 0.0 2.2 10.1 7.2			35.0	24.0	37.0	24.0	7.1	138.47	48.90	Fox Islands Region	53°37'N 165.14'W	/TSC/			
897	NOV 21	SPC	E	22	6	3.0												H = 0 9°15'0 km MB = 5.0	/TSC/			
898	NOV 23	SRO	EPN I LMH	16 18 18	49 51 52	15.0 21.0 0.0												No determination of epicentre				
899	NOV 27	SRO	IP IXS LMH	16 17 17	58 2 2	6.1 22.1 10.2					4.8	12.0	1.4	10.0		5.0	23.87	111.70	Trans-Iraq Border Region	35°26'N 45°66'E	/TSC/	
900	NOV 29	SPC SRO	EPOP IS -IP	22 22 22	17 17 17	7.5 52.4 14.6	-1.1 4.0 0.6					1.9	12.0	1.9	8.0			83.31	49.84	South of Honshu	30°71'N 138°44'E	/TSC/
																		H = 22 52°23.5 km MB = 6.1				
																		Depth = 429 km				

892	NOV 19	BRA	IPK2	5	59	5.5	-4.0									147.37	23.30	Fiji Region	18.04'S 178.48'W			
893	NOV 19	BRA	TAFKHP	7	9	55.6	-0.9									139.78	47.44	New Hebrides	H = 5 40°27'0 km MB = 5.1	/TSC/		
894	NOV 19	BRA	E	17	48	16.0												H = 6 50°29.5 km MB = 5.2	/TSC/			
895	NOV 20	BRA	EP	0	21	13.0	-0.0									78.62	1.27	No determination of epicentre				
896	NOV 20	SRO BRA	IPK2 IPP LMH *IPK2 ISPKBC I E	4 4 4 4 4 4 4	34 37 32 34 30 37 16	11.6 3.6 0.1 6.2 -3.2 2.6 15.2	2.8 -0.1 0.0 2.2 10.1 7.2			35.0	24.0	37.0	24.0	7.1	138.47	48.90	Fox Islands Region	53°37'N 165.14'W	/TSC/			
897	NOV 21	SPC	E	22	6	3.0												H = 4 14°20.1 km MB = 6.2	/TSC/			
898	NOV 23	SRO	EPN I LMH	16 18 18	49 51 52	15.0 21.0 0.0												No determination of epicentre				
899	NOV 27	SRO	IP IXS LMH	16 17 17	58 2 2	6.1 22.1 10.2					4.8	12.0	1.4	10.0		5.0	23.87	111.70	Trans-Iraq Border Region	35°26'N 45°66'E	/TSC/	
900	NOV 29	SPC SRO	EPOP IS -IP	22 22 22	17 17 17	7.5 52.4 14.6	-1.1 4.0 0.6					1.9	12.0	1.9	8.0			83.31	49.84	South of Honshu	30°71'N 138°44'E	/TSC/
																		H = 22 52°23.5 km MB = 6.1				
																		Depth = 429 km				

1974

156

No.	Date	St. Code	Phase	h	GMT m	s	RES		Z		E-W		N-S		MLH	Deltas	Azimuth	Remarks
							0-C	A	T	A	T	A	T	M				
918	DEC 22	SRO	IPKP2	17	2	46.0	-3.8								146.78	30.87	P.I.I Region 17.63°S 178.83°W H = 16.44 2.3 Depth = 525 km MB = 5.0	/ISC/
		BRA	IKP2	17	4	10.0	-3.2								146.87	28.63		
			EKP2	17	3	5.0	14.8								144.98	21.90		
919	DEC 23	BRA	IPKP2	12	23	38.0	1.1								144.99	24.06	Samos Region 14.69°S 175.67°W H = 1.4 7.0 Depth = 75 km MB = 5.2	/ISC/
			IAPKKP	12	24	51.0	-0.8								144.99	24.06		
			IAPKKP	12	25	15.0	18.1								144.99	24.06		
		SRO	IPKP2	12	23	14.0	42.0	5.1							144.99	24.06		
920	DEC 23	SRO	EP	5	26	46.0	-0.8								20.54	92.46	Eastern Caucasia 43.16°N 46.94°E H = 5.22 9.0 Depth = 37 km MB = 4.8	/ISC/
			I	5	27	54.0	0.0								20.54	92.40		
			LMH	5	36	56.0	0.8								20.54	92.40		
			IP	5	27	56.0	0.8								20.54	92.40		
			IAP	5	27	7.0	2.0								20.54	92.40		
			IPP	5	28	23.0	3.3								20.54	92.40		
921	DEC 23	BRA	IP	11	1	29.0											No determination of epicentre	
922	DEC 24	SRO	IPCP	7	8	26.0	-0.1								85.44	98.43	Southern Sumatra 2.30°S 99.01°E H = 6.55 47.0 Depth = 32 km MB = 5.9	/ISC/
			IS	7	18	54.0	3.9								85.44	98.43		
			LMH	7	19	0.0	-0.8								85.44	98.43		
			IP	7	19	26.0	0.0								85.44	98.43		
			IS	7	19	0.0	-0.8								85.44	98.43		
923	DEC 25	BRA	IP	3	1	13.0	-0.6								78.70	14.08	Near Islands 51.66°N 174.59°E H = 2.49 9.0 Depth = 7 km MB = 5.8	/ISC/
			I	3	1	37.0	0.6								78.70	14.08		
			IP	3	1	15.0	0.6								78.70	14.08		
			LMH	3	12	0.0	0.0								78.70	14.08		
			IP	3	12	0.0	0.0								78.70	14.08		
			IP	3	12	0.0	0.0								78.70	14.08		
924	DEC 27	BRA	IPG	12	38	13.0											No determination of epicentre	
925	DEC 27	BRA	E	12	57	12.0											No determination of epicentre	
926	DEC 28	SRO	IP	12	19	35.0	-0.3								42.03	87.06	Pakistan 31.06°N 72.91°E H = 12.11 46.6 Depth = 45 km MB = 5.9	/ISC/
			IP	12	19	55.0	2.1								42.03	87.06		
			IP	12	21	15.0	-1.5								42.03	87.06		
			IP	12	29	7.0	13.4								42.03	87.06		
			IP	12	43	0.0	0.0								42.03	87.06		
			LMH	12	43	0.0	0.0								42.03	87.06		
			IP	12	43	0.0	0.0								42.03	87.06		
			IP	12	43	0.0	0.0								42.03	87.06		
			IP	12	43	0.0	0.0								42.03	87.06		
927	DEC 29	SRO	IP	3	55	35.0	1.1								25.58	324.23	Iceland 64.63°N 17.55°W H = 3.50 5.9 Depth = 31 km MB = 5.1	/ISC/
			IP	3	55	55.0	8.6								25.58	324.23		
			IP	3	55	47.0	18.2								25.58	324.23		
			IP	4	6	0.0									25.58	324.23		

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