

SEISMOLOGICAL BULLETIN  
1969

OF THE SEISMOLOGICAL STATIONS  
OF THE FEDERAL REPUBLIC OF  
GERMANY

BNS, BOC, BUH, FEL, FUR, GRF, HAM, HEI,  
HLG, HOF, KRL, MSS, RAV, STU, TNS, TUB.

Compiled by  
H. Aichele

Edited by  
SEISMOLOGICAL CENTRALOBSERVATORY GRAEFENBERG  
Erlangen 1971

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September, July 1971

The Editor

P r e f a c e

This Seismological Bulletin, the first issue of a joint bulletin of the seismological network in the Federal Republic of Germany (FRG), replaces the former individual bulletins published by single stations. It rises from a spontaneous co-operation between the geophysical institutes in the FRG.

A great deal of preparatory work for editing a joint bulletin was done by Dr. G. Schneider from the Landeserdbebendienst in Stuttgart. First efforts of its preparation by use of a digital computer were stimulated by Prof. St. Müller and Prof. Dr. K. Fuchs from the Geophysical Institute Karlsruhe, who were taking the initiative in finding out the suitable format for punching the station readings on IBM cards.

The collection of the files with the seismogram readings on punched cards and its compilation for the joint bulletin is performed by the Central Observatory Gräfenberg according to an agreement between the cooperating stations.

The preparation of the present bulletin was carried out by Dipl.-Phys. H. Aichele in cooperation at first with Dipl.-Phys. U. Hägele and subsequently with Dr. D. Mayer-Rosa. H. Aichele is acting as a nominee for seismic reports by order of the "Forschungskollegium Physik des Erdkörpers" an association of the heads of the geophysical research institutions in the FRG.

Data acquisition and data processing was performed at the computer center of the University Erlangen-Nürnberg. Thereby various computer programs were elaborated by cand. math. B. Rittenauer.

The funds for producing and publishing this bulletin were provided by the Deutsche Forschungsgemeinschaft (German Research Association).

Erlangen, July 1971

The Editor

## Introduction

The compilation of this bulletin has been performed by means of two data files of punched cards: a "Hypocenter Data File" and a "Station Data File".

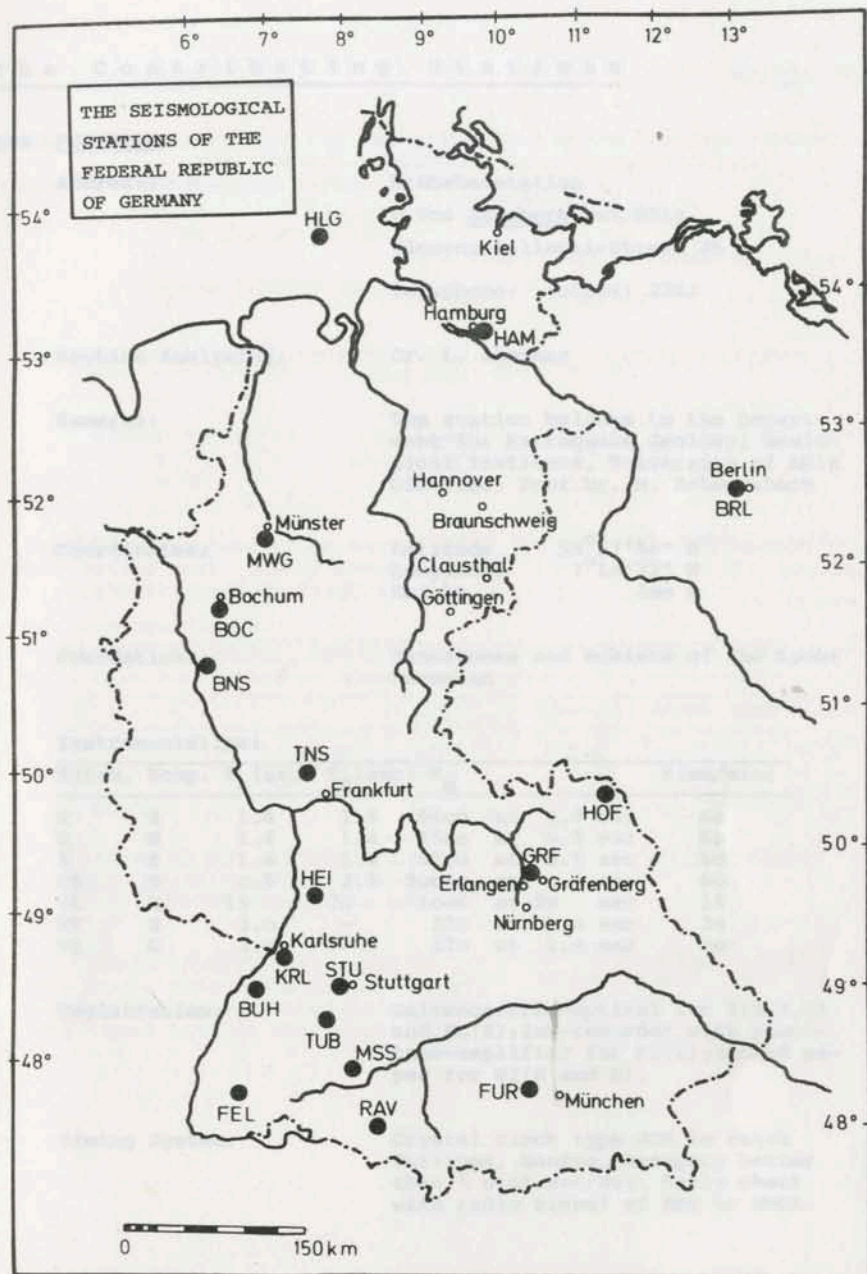
The "Hypocenter Data File" is made up from the CGS Preliminary Determinations of Epicenters in form of punched cards, from the BCIS Détermination Préliminaire and from data reported by German stations and institutions about local earthquakes and commercial explosions, which are punched on cards with CGS format.

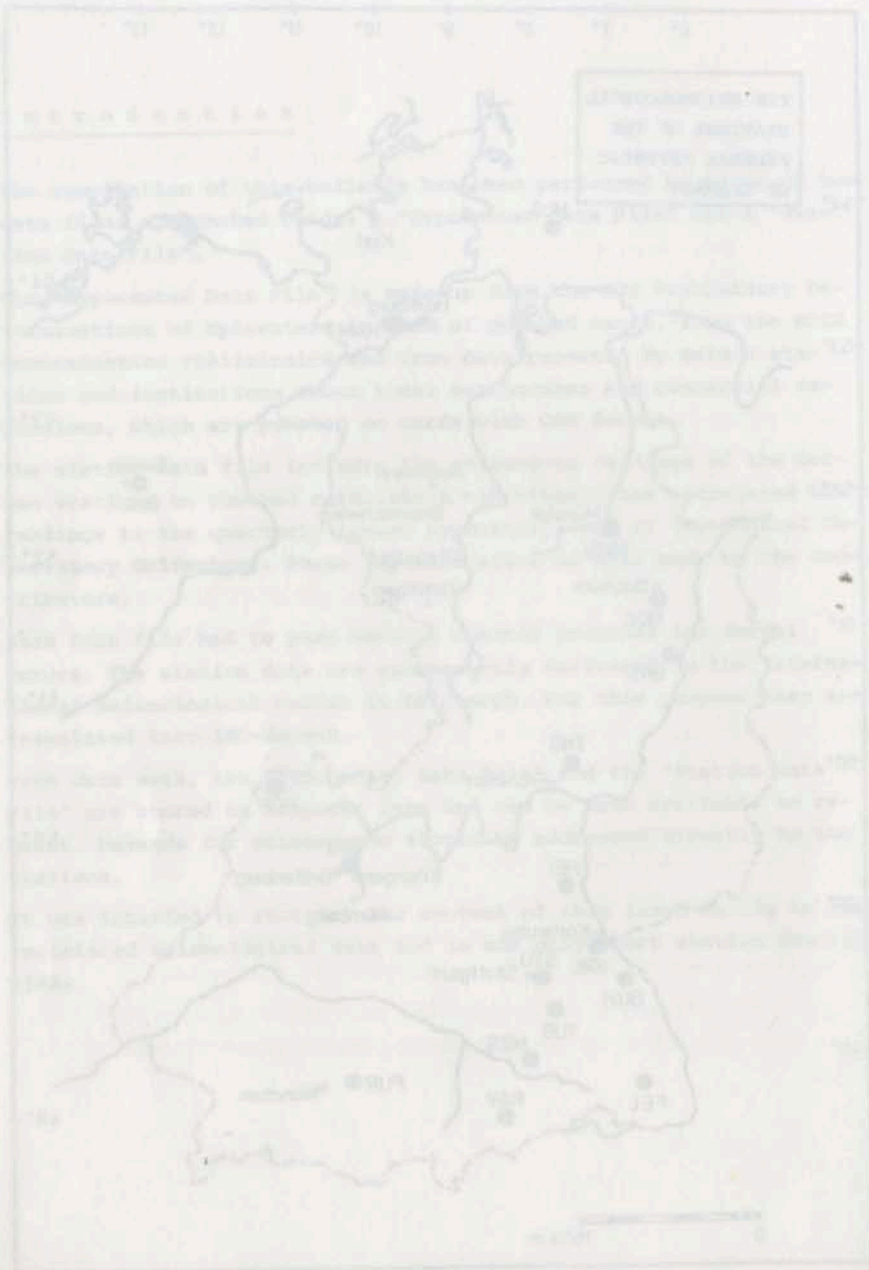
The station data file includes the seismogram readings of the German stations on punched cards. Each contributor has correlated his readings to the quarterly issued hypocenter-list of the Central Observatory Gräfenberg. Phase identification is also made by the contributors.

Each data file had to pass several control programs for formal errors. The station data are subsequently delivered to the International Seismological Center in Edinburgh. For this purpose they are translated into ISC-format.

Both data sets, the "Hypocenter Data File" and the "Station Data File" are stored on computer tape and can be made available on request. Demands for seismograms should be addressed directly to the stations.

It was intended to restrict the content of this issue mainly to the registered seismological data and to add only short station descriptions.





### The Contributing Stations

#### BNS BENSBERG

Address: Erdbebenstation  
 D 506 Bensberg bei Köln  
 Vinzenz-Pallotti-Straße 26  
 Telephone: (02204) 2343

Routine Analysing: Dr. L. Ahorner

Remarks: The station belongs to the Department for Earthquake Geology, Geological Institute, University of Köln  
 Director: Prof. Dr. M. Schwarzbach

Coordinates: Latitude 50°57'50" N  
 Longitude 7°10'32" E  
 Height 200 m

Foundation: Sandstones and schists of the Lower Devonian

#### Instrumentation:

Seism. Komp.	$T_s$ (sec)	$T_g$ (sec)	$V_m$	R (mm/min)
X Z	1.4	1.4	6400 at 0.9 sec	60
X N	1.4	1.4	5900 at 0.9 sec	60
X E	1.4	1.4	6100 at 0.9 sec	60
FS Z	0.5	2.5	50000 at 0.5 sec	60
SL Z	15	75	1000 at 20 sec	15
WI N	3.0	-	320 at 1.0 sec	30
WI E	3.0	-	320 at 1.0 sec	30

Registration: Galvanometric-optical for X(Z,N,E) and SL(Z); Ink-recorder with photo-tube-amplifier for FS(Z); Smoked paper for WI(N and E).

Timing System: Crystal clock type GCK 10 Patek Philippe, Genève. Accuracy better than  $\pm 0.01$  sec/day. Daily check with radio signal of HBG or NWDR.

**BOC BOCHUM**

**Address:** Institut für Geophysik, Schwingungs-  
 und Schalltechnik der  
 Westfälischen Berggewerkschaftskasse  
 D 463 Bochum  
 Herner Straße 45  
**Telephone:** (02321) 60981

**Routine Analysing:** Dipl.-Geophys. Rüter and Ing. grad.  
 Schomann

**Coordinates:** Latitude 51°29'22" N  
 Longitude 7°12'50" E  
 Height 64 m

**Foundation:** 25 metres marly sandstone of Upper  
 Cretaceous (flat). 2200 metres slate-  
 clay of Upper Carbonic (folded)

**Instrumentation:** Displacement pick-up B4 (Baule-  
 Hottinger)

Seism.	Komp.	T <sub>s</sub> (sec)	V		
B4	Z	0.5	3000	± 100	> 2 Hz
B4	N	1.0	3000	± 100	> 1 Hz
B4	E	1.0	3000	± 100	> 1 Hz

**Registration:** Pigment recorder and on magnetic  
 tape with width modulated pulses.  
 Events are stored on tape.

**Timing System:** Time marks from crystal clock. Two  
 daily checks with radio signal of  
 Deutsches Hydrographisches Institut.  
 Time correction is held less than  
 1/10 sec.

**BUH BÜHLERHÖHE**

**Address:** Geophysikalisches Institut  
 der Universität Fridericiana  
 D 75 Karlsruhe 21  
 Hertzstraße 16  
**Telephone:** (0721) 6084443/2  
**Telex:** 07826805

**Routine Analysing:** Dr. D. Mayer-Rosa

**Coordinates:** Latitude 48°40'32" N  
 Longitude 8°13'42" E  
 Height 750 m

**Foundation:** Granite of the Black Forest  
 (Schwarzwald)

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	V	R (mm/min)
GT	Z	2.0	25-50K at 1 Hz	120
GT	N	2.0	25-50K at 1 Hz	120
GT	E	2.0	25-50K at 1 Hz	120

**Remark:** Varying magnification, accurate  
 value on request.

**Registration:** Ink recorder

**Timing System:** Crystal clock type GCZK24E Patek -  
 Philippe, Genève. Daily check and  
 comparison with radio signal of  
 HBG, Switzerland.  
 Accuracy ± 0.1 sec absolute.

FEL FELDBERG (Schwarzwald) see STU

FUR FÜRSTENFELDBRUCK

Address: Geophysikalisches Observatorium der  
Universität München  
D 808 Fürstfeldbruck  
Ludwigshöhe 8

Telephone: (08141) 2470

Routine Analysing: Prof. Dr. O. Förtsch

Remarks: The Earthquake Observatory is a part  
of the Geophysical Observatory of the  
Ludwig Maximilians Universität Mün-  
chen.  
Director: Prof. Dr. G. Angenheister

Coordinates: Latitude 48°09'56" N  
Longitude 11°16'35" E  
Height 565 m

Foundation: Moraine upon molasse

Instrumentation:

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V	R (mm/min)
SL	Z	30 ± 2	1.3	40K at 1.5 sec	30
	Z	30 ± 2	90	0.8K at 65 sec	30
SL	N	30 ± 2	1.3	19K at 1.5 sec	30
	N	30 ± 2	90	1.0K at 56 sec	30
SL	E	30 ± 2	1.3	21K at 1.5 sec	30
	E	30 ± 2	90	0.7K at 55 sec	30

Registration: Galvanometric optical registration

Timing System: Pendulum clock, type Riefler.  
Accuracy ± 0.1 sec.

GRF GRÄFENBERG

Address: Seismologisches Zentralobservatorium  
Gräfenberg

D 852 Erlangen  
Nägelsbachstraße 54

Telephone: (09131) 35702 Office Er-  
langen  
(09197) 329 Recording  
Section  
Haidhof

Telex: 06 29706

Routine Analysing: Dipl.-Phys. H. Aichele

Coordinates: Center of array:  
Latitude 49°41'32" N  
Longitude 11°12'55" E  
Height 525 m

Foundation: Chalk and Dolomite of jurassic age  
with a covering of thin sandy loam.

Instrumentation:

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V <sub>max</sub>	R (mm/min)
SL	Z	20	30	15K	30
SL	R	20	30		30
SL	T	20	30		30
BE	Z2	.98	.2	95K	300
BE	Z3	.90	.2	160K	300
BE	Z5	.99	.2	220K	300
BE	Z6	1.	.2	190K	300
BE	R	.93	.2	170K	300
BE	T	.91	.2	150K	300

The instruments indicated with R resp. T are horizontal in-  
struments with the orientation towards 140° resp. 230°. The  
instruments indicated with a number are arranged in a small  
L-shaped array (see seismological bulletin 1968 of the sta-  
tion GRF).

**GRF Registration:**

All short-period instruments are recorded on 16mm micro-film. The long-period instruments are recorded on 35mm-film. Three components of short and long-period instruments recorded on 1/2" tape, 7 channels frequency modulated according to IRIG-standard.

**Timing System:**

Quartz-clock type CAQ Rohde & Schwarz; the quartz-clock is adjusted in such intervals that the accuracy is better than .05 sec.

**HAM HAMBURG**
**Address:**

Observatorium der Geophysikalischen Institute der Universität Hamburg  
Erdbebenstation  
D 21 Hamburg 90  
An der Schießbahn 30e

Telephone: (0411) 771151 App. 495/2

**Routine Analysing:**

Dr. J. Klußmann

**Coordinates:**

Latitude 53°27'54" N  
Longitude 9°55'29" E  
Height 30.25 m

**Foundation:**

50 m Diluvium over 1900 m Tertiär

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V	R(mm/min)
WI	N	9		205	23
WI	E	8		220	23
WZ	Z	4.5		214	15
SX	Z	1.54	1.50	6Katl.1sec	52

**Registration:**

WI and WZ on smoked paper  
SX on photographic paper

**HAM Timing System:**

Pendulum clock, type Riefler. Daily check with radio station Potsdam. Accuracy about ± 0.2 sec.

**HEI HEIDELBERG**

see STU

**HLG HELGOLAND**
**Address:**

Institut für Geophysik  
D 23 Kiel  
Neue Universität

Telephone: (0431) 593 2925

**Routine Analysing:**

Dipl.-Geophys. H. Ohlendorf

**Coordinates:**

Latitude 54°11'05" N  
Longitude 7°53'02" E  
Height 41 m

**Foundation:**

718 m marl of early Triassic age over 3000 m salt of late Permian age (Zechstein)

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V <sub>max</sub>	R(mm/min)
X	Z	1.4	1.4	5800 <sup>+200</sup> at 1.2 Hz	30
X	N	1.4	1.4	4900 <sup>+200</sup> at 1.2 Hz	30
X	E	1.4	1.4	4700 <sup>+200</sup> at 1.2 Hz	30

**Registration:**

Optical, on photographic paper

**Timing System:**

Quartz-clock type Rohde & Schwarz. Daily check with Radio Norddeich. Accuracy of seismogram readings ± 0.2 sec.



**HOF HOF/Saale**

Address: Wetterstation Hof  
des Deutschen Wetterdienstes  
D 867 Hof/Saale  
Hohensaas 36  
Telephone: (09281) 2444

Routine Analysing: Prof. Dr. O. Förtsch  
Geophysikalisches Observatorium  
der Universität München  
D 808 Fürstenfeldbruck  
Ludwigshöhe 8  
Telephone: (08141) 2470

Coordinates: Latitude 50°18'49" N  
Longitude 11°52'39" E  
Height 566 m

Foundation: Devonian

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	V	R (mm/min)
WZ	Z	2.2	51	12
WI	NW	6.6	75	12
WI	SW	4.9	87	12

Registration: Smoked paper

Timing System: Pendulum clock. Accuracy  
± 0.5 sec.

**KRL KARLSRUHE**

Address: Geodätisches Institut<sup>\*</sup>  
der Universität Fridericiana  
D 75 Karlsruhe  
Englerstraße 7  
Telephone: (0721) 6082301  
6082307

Routine Analysing: Dr. H. Mälzer

Coordinates: Latitude 49°00'39" N  
Longitude 8°24'44" E  
Height 114 m

Foundation: Pleistocene deposits of the upper  
Rheingraben.

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	V	R (mm/min)
WH	Z	3.0	1500	30
MH	N	10.5	450	30
MH	E	10.5	450	30
KH	N	3.0	1000	30
KH	E	3.0	1000	30
ST	Z	1.1	5000 at 1 Hz	120
ST	N	1.1	5000 at 1 Hz	120
ST	E	1.1	5000 at 1 Hz	120

Registration: Ink recorder

Timing System: Pendulum clock and crystal clock.  
Daily check and comparison with  
radio signal of HBG, Switzerland.  
Accuracy ± 0.1 sec.

MSS MESSTETTEN see STU

RAV RAVENSBURG

see STU

 STU STUTT GART and substations

**Address:** Landeserdbebendienst  
 Baden-Württemberg  
 D 7 Stuttgart 1  
 Richard-Wagner-Straße 44

**Telephone:** Institut für Geophysik  
 der Universität Stuttgart  
 (0711) 2073 704  
 Landeserdbebendienst  
 (0711) 2073 2342

**Telex:** Universität Stuttgart  
 0721703

Routine Analysing: Dr. G. Schneider

Coordinates:	Latitude	Longitude	Height
STU	48°46'15" N	9°11'36" E	375 m
RAV	47°47'00" N	9°36'50" E	460 m
MSS	48°10'45" N	8°57'58" E	915 m
TUB	48°31'37" N	9°03'40" E	330 m
HEI	49°23'55" N	8°43'35" E	560 m
FEL	47°52'30" N	8°01'00" E	1485 m

**Foundation:** STU Triassic marbles and sandstones  
 RAV Pleistocene deposits  
 MSS Upper jurassic chalks  
 TUB Alluvium  
 HEI Buntsandstein  
 FEL Gneiss

**Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V <sub>max</sub>	R (mm/min)
ST					
BE	Z	1.0	0.75	25K at 2 Hz	60
BE	N	1.0	0.75	12.3K +) at 2 Hz	60
BE	E	1.0	0.75	12.3K +) at 2 Hz	60
SL	Z,N,E	15.0	100	750 at 15 sec	15

All other stations:

ST Z,N,E 1.10 0.25 2K-20K at 2 Hz ++)

STU Registration:

 STU optical  
 all other stations: ink recorder or  
 smoked paper

Timing System:

STU Quartz clock. Accuracy  
 ± 0.2 sec

MSS,RAV Quartz clock controlled by  
 radio time signal. Accuracy  
 ± 0.0 sec

FEL,TUB pendulum clock, Type Rief-  
 ler. Accuracy ± 0.2 sec

HEI Time mark supply, system  
 "Karlsruhe". Accuracy  
 ± 0.2 sec

+) before April, 1 st 25K

 ++) range of variable magnification settings; accurate  
 values on request.

 TNS KLEINER FELDBERG / TAUNUS

Address:

Institut für Meteorologie und Geo-  
 physik  
 der Universität Frankfurt  
 D 6 Frankfurt am Main - 1  
 Feldbergstraße 47

Telephone: (0611) 7982375

 Telex: Universität Frankfurt  
 0413932

Routine Analysing:

 Dipl.-Geophys. G. Albert,  
 Dipl.-Geophys. G. Breitmayer

Coordinates:

Latitude 50°13'25" N  
 Longitude 8°26'56" E  
 Height 815 m

Foundation:

 Taunus Quartzite, seismometer vault  
 5 m below surface

**TNS Instrumentation:**

Seism.	Komp.	T <sub>s</sub> (sec)	T <sub>g</sub> (sec)	V	R (mm/min)
SL	Z, EW, NS	20			30
ST	Z, EW, NS	1.2	0.2	10.000	60

**Registration:** Longperiod instruments on magnetic tape, triggered by events

**Timing System:** Quartz clock. Accuracy  $\pm 0.02$  sec

**TUB** TÜBINGEN see STU

Explanations and abbreviations

**Hypocenter data**

Hypocenter determinations of the following institutions are used in this bulletin:

CGS United States Coast and Geodetic Survey, Rockville, Md. (now National Oceanic and Atmospheric Administration)

BCS Bureau Central International de Séismologie, Strasbourg

NFB Niedersächsisches Landesamt für Bodenforschung, Hannover (This institution gives specially the shot data of quarry blasts in the Federal Republic of Germany)

BNS | Observatories giving hypocenter determinations and comments  
 FUR |  
 STU | on local events

**Remark:** If more than one hypocenter indication is given for the same event, the distances and azimuths are calculated using the values listed at first position.

**Station abbreviations**

Station abbreviations are used as indicated in the "Seismograph Station Abbreviations" published by the U.S.C.G.S.

**Components**

- Z, N, E: + means upward-, northward- or eastward directed first motion of ground  
 - means downward-, southward- or westward directed first motion of ground
- R, T: used at the station GRF for the horizontal instruments  
 + means groundmotion towards 140°, 230°  
 - means groundmotion towards 320°, 50°
- /, S: used for the horizontal components at the station HOF  
 + means groundmotion in NW, SW direction  
 - means groundmotion in SE, NE direction

**Seismometer**

The following seismometer abbreviations are used in this bulletin:

- B4 Baule-Seismometer with Hottinger displacement pick-up
- BE short period type Benioff
- FS FS 60 combined with phototube-amplifier and ink recorder
- GT Geotech type S-13 (formerly 18300)
- GL Geotech type S-13 combined with amplifier type Wielandt
- GW Galitzin-Wilip
- JM Johnson Matheson
- KH 170 kg-Mainka combined with Hottinger displacement pick-up
- MH 2000 kg-Mainka combined with Hottinger displacement pick-up

- SL long period Sprengnether
- ST Displacement seismometer type Stuttgart
- SX Induction seismometer type Stuttgart modified after Strobach
- WG 17 tons pendulum seismometer (three component) Wiechert
- WH Wiechert inverted pendulum combined with Hottinger displacement pick-up
- WI inverted (horizontal) Wiechert
- WZ vertical Wiechert
- X Induction seismometer type Stuttgart

**Phases**

The nomenclature of the phases corresponds to the code list of supplementary phases published by the International Seismological Center. pP appears as AP and sP as XP.

**Time**

All indications in Greenwich Mean Time. The character "-" instead of a digit in the column for the 1/10 second indicates that the reading could not be made with this accuracy.

**Period**

The column PER gives the measured period in seconds.

**Amplitude**

The column LOG.AMP. gives the logarithm of the amplitude of the true ground motion in millimicrons ( $10^{-9}$  m).

**Signal to noise ratio**

The column S/N gives the signal to noise ratio of the first onset. The digit 9 stands also for values greater than 9.

**Distances**

Epicentral distances are given in degrees or in kilometers, rounded to 1/10 of a degree or 10 kilometers.

**Azimuth**

This column gives on first line the azimuth from the station to the epicenter and on second line the azimuth from the epicenter to the station.

**Other abbreviations**

- $T_g$  free period of galvanometer
- $T_s$  free period of seismometer
- V Static magnification or magnification at a<sup>0</sup> indicated frequency resp. period
- $V_{max}$  Maximum magnification
- R Recording speed

**Intensity**

Intensity indications without specification of locality have the meaning of  $I_0$  of the modified Mercally Scale.

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 01 USCGS  
 H= 06 53 24.0  
 LAT = 60.5 S  
 LONG= 150.6 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 WEST OF MACQUARIE ISLAND

FUR	+E Z SL	PKP	07 13 16.0	1.6	2.04	2	17090 153.7	133.2 260.4
	+E Z SL	PKP2	07 13 39.0	1.6	2.04	1		
	-E Z SL	APKP	07 13 48.0	1.5	1.97	1		
	-E Z SL	XPKP	07 13 52.0	1.5	1.97	1		

JAN 01 USCGS  
 H= 09 07 04.3  
 LAT = 51.2 N  
 LONG= 179.4 W  
 DEPTH= 34 KM  
 MAGNITUDE= 5.4  
 ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	+I Z FS	P	09 19 01.2	1.5	1.85	3	8680 78.0	4.2 355.8
	E Z FS	-	09 19 20.-					
GRF	+I Z BE	P	09 19 07.4	0.8	1.42	4	8790 79.0	6.8 353.0
STU	+E Z BE	P	09 19 12.2	0.9	1.92		8910 80.1	5.5 354.3
BUH	+E Z GT	P	09 19 13.2	1.0	1.60	3	8920 80.3	4.8 354.9
FUR	-E Z SL	P	09 19 14.0	1.2	2.14	2	8960 80.6	6.8 352.8
	-E Z SL	PCP	09 19 19.0	1.6	1.52	1		
	+E Z SL	APCP	09 19 27.0	1.6	1.52	3		

JAN 01 USCGS  
 H= 09 25 00.5  
 LAT = 16.2 S  
 LONG= 178.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 FIJI ISLANDS

GRF	+E Z BE	PKP	09 44 36.1	1.0	1.30	2	16130 145.0	21.9 345.4
FUR	-E Z SL	PKP	09 44 36.0	2.0	1.97	1	16280 146.4	22.8 344.3
	+E Z SL	PKP2	09 44 43.0	1.8	1.87	2		
	+E Z SL	APKP	09 44 49.0	1.6	1.42	1		
	-E Z SL	APKP	09 44 53.0	1.2	2.00	2		
	-E Z SL	XPKP	09 44 56.0	1.8	1.80	2		

JAN 01  
 NO DETERMINATION OF EPICENTER

JAN 1969 JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR -E Z SL - 09 33 04.0 1.4 1.23 2

JAN 01 USCGS  
H= 21 41 25.1  
LAT = 36.4 N  
LONG= 23.0 E  
DEPTH= 10 KM  
MAGNITUDE= 4.5  
SOUTHERN GREECE

JAN 01 BCIS  
H= 21 41 29.0  
LAT = 36.5 N  
LONG= 23.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
SOUTHERN GREECE

GRF +E Z BE P 21 45 13.2 0.8 1.56 5 1750 15.8 142.8 330.8

JAN 02 USCGS  
H= 00 36 11.7  
LAT = 30.5 N  
LONG= 41.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
NORTH ATLANTIC RIDGE

FUR -E Z SL P 00 44 15.0 1.6 1.43 2 4870 43.8 266.2 50.7

FUR +E Z SL - 00 44 20.0 1.4 1.62 3

GRF -E Z BE P 00 44 18.1 1.0 1.38 2 4880 43.9 264.5 48.5

JAN 02 USCGS  
H= 01 05 07.0  
LAT = 30.6 N  
LONG= 42.0 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
NORTH ATLANTIC RIDGE

FUR +E Z SL P 01 13 09.0 1.7 1.52 1 4870 43.8 266.4 50.8

GRF E Z BE P 01 13 12.- 4880 43.9 264.7 48.6

JAN 1969 JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-----------------	-------------	-------	------------	------	-----------	-----	------------------	---------------------

JAN 02 USCGS  
H= 12 13 49.0  
LAT = 47.5 N  
LONG= 27.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
NORTH ATLANTIC RIDGE

BNS E Z FS P 12 18 47.8 1.5 1.70 2 2560 23.0 275.2 68.3

GRF E Z BE P 12 19 21.- 2870 25.8 280.3 70.5

FUR +E Z SL P 12 19 23.0 1.5 1.60 3 2910 26.1 283.4 73.9

FUR +E Z SL AP 12 19 29.0 1.4 1.62 2

FUR -E Z SL PPP 12 20 12.0 1.4 1.52 2

FUR -E Z SL PCP 12 22 43.0 2.0 1.97 3

JAN 02 NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 24 48.5 0.4 1.27 2

GRF E R BE SG 12 25 04.8

JAN 02 USCGS  
H= 14 07 05.2  
LAT = 53.9 N  
LONG= 160.6 E  
DEPTH= 76 KM  
MAGNITUDE= 4.9  
NEAR EAST COAST OF KAMCHATKA

BNS E Z FS P 14 18 29.0 2 8130 73.1 16.1 342.8

BNS E Z FS - 14 19 36.5

GRF +E Z BE P 14 18 32.6 0.8 1.38 2 8180 73.6 18.3 339.8

FUR -E Z SL P 14 18 40.0 1.4 1.76 4 8340 75.0 18.2 339.3

JAN 02 USCGS  
H= 15 17 33.9  
LAT = 35.5 N  
LONG= 28.4 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
EASTERN MEDITERRANEAN SEA



JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
JAN 02 BCIS H= 15 17 31.0 LAT = 35.3 N LONG= 28.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED EASTERN MEDITERRANEAN SEA										
FUR	+E Z SL	P	15 21 41.0	1.2	2.00	3	1990	17.9	128.7	320.2
	+E Z SL	XP	15 21 53.0	1.4	1.52	2				
GRF	E Z BE	P	15 21 54.8				2100	18.9	132.1	323.8
JAN 02 USCGS H= 17 32 09.8 LAT = 15.2 S LONG= 173.6 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.7 TONGA ISLANDS										
GRF	E Z BE	PKP	17 51 46.-				16160	145.4	8.2	354.5
FUR	+E Z SL	PKP	15 51 51.0	1.4	1.62	3	16330	146.9	8.6	354.1
	+E Z SL	XPKP	15 52 06.0	1.6	1.52	3				
	-E Z SL	-	15 52 15.0	1.4	1.76	4				
JAN 02 USCGS H= 18 07 07.9 LAT = 42.0 N LONG= 142.4 E DEPTH= 70 KM MAGNITUDE= 4.7 HOKKAIDO, JAPAN REGION										
GRF	-E Z BE	P	18 19 07.5	0.8	1.34	2	8800	79.2	34.8	330.2
JAN 03 USCGS H= 03 16 38.1 LAT = 37.1 N LONG= 57.9 E DEPTH= 11 KM MAGNITUDE= 5.6 IRAN-USSR BORDER REGION										

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
JAN 03 BCIS H= 03 16 42.0 LAT = 37.1 N LONG= 57.7 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED IRAN-USSR BORDER REGION										
USCGS= 50 KILLED AND 300 INJURED IN NORTHEAST KHURASAN PROVINCE, IRAN. BCIS = FELT STRONGLY IN THE REGION OF ASFARAIN, NORTHWEST OF MASHAD. DAMAGES AND CASUALTIES AT DAHANE OYACH (CHAIN OF MIHRABI). SEVERAL FORESHOCKS AND AFTERSHOCKS REGISTERED AT MASHAD.										
FUR	-E Z SL	P	03 23 36.0	2.0	1.97	2	3950	35.5	90.5	303.1
	-E Z SL	-	03 23 45.0	1.2	2.00	3				
	-E Z SL	PPP	03 25 09.0	1.6	1.52	1				
	-E Z SL	-	03 25 23.0	1.6	1.52	2				
	+E Z SL	PCP	03 26 03.0	1.6	1.60	2				
GRF	E Z BE	P	03 23 39.-				3960	35.6	92.6	305.7
STU	E Z BE	P	03 23 47.3	1.1	2.13		4100	36.9	89.8	304.1
BNS	E Z FS	P	03 24 00.5	3.5	2.40	2	4250	38.2	91.1	307.7
	E Z FS	-	03 25 14.1							
	E FS	-	03 36 30.-							
JAN 03 NO DETERMINATION OF EPICENTER										
GRF	-E Z BE	PG	12 59 05.2	0.4	0.98	2				
	E R BE	SG	12 59 32.-							
JAN 03 USCGS H= 13 28 12.8 LAT = 51.2 N LONG= 179.4 W DEPTH= 29 KM MAGNITUDE= 5.8 ANDREANOF ISLANDS, ALEUTIAN IS.										
HLG	-I Z X	P	13 39 53.4	1.2	2.59	4	8320	74.8	4.7	355.6
BNS	+I Z FS	P	13 40 10.6	1.0	2.08	7	8680	78.1	4.2	355.8
	I Z FS	-	13 40 14.5							
	E FS	LR	14 15 00.-							
GRF	+E Z BE	P	13 40 16.7	1.1	1.87	6	8800	79.1	6.8	353.0
STU	+E Z BE	P	13 40 21.5	0.9	2.41		8910	80.2	5.5	354.3
BUH	+E Z GT	P	13 40 23.0	1.0	1.77	9	8930	80.3	4.9	354.9
FUR	-I Z SL	P	13 40 24.0	1.5	1.78	2	8970	80.6	6.8	352.8



JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
-E Z SL	AP		13 40 32.0	1.5	1.60	3			
+E Z SL	XPCP		13 40 43.0	1.3	1.89	3			
+E Z SL	PP		13 43 23.0	1.8	1.80	1			

JAN 04  
NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
GRF	-E Z BE	PN	12 11 18.9	0.4	0.94	3			
	-E Z BE	PG	12 11 25.5	0.5	1.25	2			
	E R BE	SN	12 11 37.7						
	E R BE	SG	12 11 44.-						

JAN 04 USCGS  
H= 18 10 55.2  
LAT = 26.0 S  
LONG = 68.8 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.1  
SOUTH INDIAN OCEAN

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
FUR	-I Z SL	P	18 23 54.0	1.2	2.08	4	10010	90.0	130.6 325.6
	+E Z SL	AP	18 24 01.0	1.5	1.52	3			
	+E Z SL	XP	18 24 08.0	1.8	1.80	3			

JAN 04 USCGS  
H= 22 36 47.9  
LAT = 6.8 S  
LONG = 129.8 E  
DEPTH=107 KM  
MAGNITUDE= 5.7  
BANDA SEA

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
FUR	+E Z SL	PKP	22 55 16.0	1.8	1.87	3	12660	113.9	72.6 320.0
STU	E Z BE	PKP	22 55 17.0	1.0	1.75		12790	115.0	70.6 321.1

JAN 05 USCGS  
H= 13 05 48.8  
LAT = 48.4 N  
LONG = 146.1 E  
DEPTH=466 KM  
MAGNITUDE= 4.6  
SEA OF OKHOTSK

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
GRF	+I Z BE	P	13 16 42.0	0.7	1.20	4	8320	74.9	29.3 331.6
STU	+E Z BE	P	13 16 49.0	0.8	1.50		8480	76.3	27.9 332.3

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
JAN 05 USCGS H= 13 26 39.9 LAT = 8.0 S LONG = 158.9 E DEPTH= 47 KM MAGNITUDE= 6.4 SOLOMON ISLANDS									
HAM	+I Z WZ	PKP	13 45 45.-			1	14250	128.2	40.5 336.9
HLG	+I Z X	PKP	13 45 44.5	1.6	2.88	3	14280	128.4	37.7 338.7
	-I Z X	-	13 45 58.8			2			
	+I Z X	-	13 46 15.4	1.2	2.66	2			
GRF	E Z BE	PKP	13 45 47.7	1.0	1.47	3	14500	130.4	44.1 332.9
	-E Z BE	PKP	13 46 08.5						
	E Z BE	PP	13 48 06.-						
BNS	E Z FS	P	13 42 50.-				14590	131.2	38.5 336.6
	-I Z FS	PKP	13 45 50.0	3.3	3.21	9			
	E Z FS	PKP	13 47 56.-						
	E Z SL	PKS	13 49 17.-	3.0	3.48				
	E Z SL	PS	14 00 00.-						
	E Z SL	LR	14 28 05.-	60.0					
FUR	+I Z SL	PKP	13 45 48.0	2.0	2.28	5	14620	131.5	45.1 331.4
	-I Z SL	-	13 45 51.0	1.8	2.64	4			
	+I Z SL	-	13 45 53.0	2.0	2.97	1			
	-I Z SL	XPKP	13 46 02.0	1.5	2.12	1			
	-I Z SL	-	13 46 06.0	2.0	2.81	7			
	+I Z SL	PP	13 48 15.0	1.8	2.44	1			
	+I Z SL	APP	13 48 24.0	1.8	2.50	2			
	-I Z SL	XPP	13 48 26.0	2.0	2.81	2			
	-I Z SL	SKP	13 49 11.0	2.2	2.88	3			
	-I Z SL	SKP	13 49 20.0	1.8	3.00	4			
	*E Z SL	SP	13 58 25.0	2.2	2.40	2			
	Z SL	MAXIMUM	14 39 00.0	27.0	3.88				
STU	+I Z BE	PKP	13 45 52.6	0.8	2.56		14680	132.0	42.2 333.3
KRL	-E Z ST	PKP	13 45 53.0	1.5	2.55	6	14700	132.2	41.2 334.1
BUH	E Z GT	P,P	13 45 50.-			2	14730	132.5	41.1 333.9
	-E Z GT	PKP	13 45 52.9	2.2	2.71	5			

JAN 05  
NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
FUR	+E Z SL	-	18 57 08.0	1.5	1.11	1			





JAN 1969				JAN 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
JAN 06 USCGS H= 05 47 17.6 LAT = 53.8 W LONG= 163.5 W DEPTH= 27 KM MAGNITUDE= 4.6 UNIMAK ISLAND REGION								
GRF	E Z BE	P	05 59 10.0				8540 76.8	356.8 3.5
FUR	-E Z SL	-	05 59 14.0	1.0	2.21	4	8710 78.3	356.8 3.6
	+E Z SL	XPCP	05 59 36.0	1.6	1.52	1		
JAN 06 USCGS H= 06 22 05.8 LAT = 16.4 S LONG= 173.9 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.2 TONGA ISLANDS								
BNS	I Z FS	PKP	06 41 43.0	0.8	1.48	2	16180 145.5	1.8 358.8
JAN 06 USCGS H= 12 29 12.5 LAT = 22.5 S LONG= 179.2 E DEPTH=586 KM MAGNITUDE= 4.5 SOUTH OF FIJI ISLANDS								
GRF	E Z BE	PKP	12 48 01.-				16820 151.3	23.6 343.7
JAN 06 NO DETERMINATION OF EPICENTER								
BNS	I Z FS	-	12 47 03.0	1.0	1.78	3		
JAN 06 USCGS H= 15 30 29.7 LAT = 36.2 S LONG= 178.0 W DEPTH=137 KM MAGNITUDE= 5.2 KERMADEC ISLANDS								
BNS	-I Z FS	PKP	15 50 48.5	2.0	2.00	2	17670 158.9	12.5 350.9
GRF	E Z BE	PKP	15 50 51.2	1.2	1.85	3	17720 159.4	23.1 342.9

JAN 1969				JAN 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	+I Z SL	PKP2	15 50 57.0	2.0	2.27	5	17870 160.7	25.0 340.9
JAN 06 USCGS H= 15 39 00.9 LAT = 10.5 S LONG= 164.5 E DEPTH= 32 KM MAGNITUDE= 6.2 SANTA CRUZ ISLANDS REGION								
HAM	E Z SX	PKP	15 58 15.-				14740 132.5	35.0 339.6
	E Z SX	-	15 58 18.-			1		
HLG	-I Z X	PKP	15 58 18.6	1.2	2.67	3	14750 132.6	32.1 341.5
	E Z X	-	16 00 40.-	5.3	3.51	2		
GRF	E Z BE	PKP	15 58 21.6				15020 135.1	38.8 335.5
	E Z BE	-	16 00 50.-					
BNS	E Z FS	PKP	15 58 22.0	3.0	2.82	7	15070 135.6	32.8 339.6
	E Z FS	PP	16 00 58.-					
	E FS	PKS	16 01 53.-					
	E Z SL	-	16 19 40.-					
	I Z SL	LR	16 42 24.-	60.0				
	SL	MAXIMUM	17 06 00.-	18.0				
FUR	+I Z SL	PKP	15 58 23.0	1.2	2.60	5	15150 136.2	39.9 334.1
	-I Z SL	APKP	15 58 32.0	1.3	2.59	1		
	-I Z SL	XPKP	15 58 35.0	1.3	2.59	1		
	-E Z SL	PP	16 01 07.0	4.0	3.30	1		
	+E Z SL	XPP	16 01 22.0	2.0	2.45	2		
	-I Z SL	-	16 02 13.0	3.0	2.92	7		
	-E Z SL	PPP	16 04 10.0	1.2	2.30	2		
	Z SL	MAXIMUM	16 59 00.0	21.0	4.47			
KRL	E Z ST	PKP	15 58 25.-			2	15200 136.7	35.6 337.1
BUH	E Z GT	PKP	15 58 18.-			2	15240 137.1	35.6 336.9
	E Z GT	PKP	15 58 24.8	1.4	2.16	3		
JAN 06 USCGS H= 17 33 40.5 LAT = 10.7 S LONG= 164.4 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.4 SANTA CRUZ ISLANDS REGION								
FUR	-I Z SL	XPP	17 56 07.0	1.6	1.60	3	15170 136.4	40.1 334.0

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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JAN 06 USCGS  
H= 22 03 24.7  
LAT = 44.1 N  
LONG= 10.7 E  
DEPTH= 7 KM  
MAGNITUDE= 4.5  
NORTHERN ITALY

JAN 06 BCIS  
H= 22 03 25.0  
LAT = 44.0 N  
LONG= 10.8 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTHERN ITALY

USCGS= MINOR DAMAGE AT SAN MARCELLO,PISTOJESE,MAMMIANO BASSO AND  
PITEGLIO.  
BCIS = FELT IN THE PROVINCES OF PISTOIA,MASSA,LUCCA AND PISA.

FUR	+E Z SL	PN	22 04 30.0	1.5	1.60	1	450	4.1	185.8	5.4
	-I Z SL	PH	22 04 39.0	1.0	2.29	1				
	-I Z SL	PG	22 04 58.0	1.0	2.81	2				
	+I Z SL	SN	22 05 20.0	1.5	2.17	2				
	-I Z SL	SH	22 05 36.0	1.5	2.05	3				
	+I Z SL	SG	22 05 46.0	1.5	2.37	1				
	Z SL	MAXIMUM	22 06 28.0	1.2	3.40					
BUH	-I Z GT	PN	22 04 41.2	0.4	1.94	9	540	4.9	158.5	340.3
	I Z GT	PG	22 05 02.0			4				
KRL	+E Z ST	PN	22 04 44.9	0.4	1.88	2	570	5.1	161.2	342.9
HEI	E Z ST	PN	22 04 48.7	0.6	1.89		610	5.5	164.8	346.3
	E E ST	SN	22 05 50.7	0.6	2.77					
GRF	E Z BE	PN	22 04 49.0				620	5.6	183.7	3.4
BNS	-E Z FS	PN	22 05 13.5	1.0	1.60	2	810	7.3	159.4	342.0
	E E FS	SN	22 06 32.0							
	E FS	SG	22 07 27.0							

JAN 07 USCGS  
H= 00 50 45.8  
LAT = 38.5 N  
LONG= 20.1 E  
DEPTH= 15 KM  
MAGNITUDE= 4.3  
GREECE

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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JAN 07 BCIS  
H= 00 50 46.0  
LAT = 38.2 N  
LONG= 20.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE

FUR	-E Z SL	-	00 56 29.0	1.5	1.52	2	1290	11.6	143.0	329.1
	Z SL	MAXIMUM	00 58 40.0	3.0	2.52					
GRF	E Z BE	P	00 54 08.0				1430	12.9	146.9	333.1

JAN 07  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	02 31 41.0	1.6	1.52	2				
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JAN 07 USCGS  
H= 04 40 21.4  
LAT = 16.0 S  
LONG= 167.5 E  
DEPTH= 45 KM  
MAGNITUDE= 4.7  
NEW HEBRIDES ISLANDS

FUR	+E Z SL	PKP	04 59 50.0	1.6	1.52	5	15840	142.4	39.5	333.7
	-E Z SL	XPKP	05 00 03.0	1.6	1.52	3				
	+E Z SL	XPP	05 03 16.0	3.0	2.74	5				

JAN 07 USCGS  
H= 07 01 55.2  
LAT = 26.1 N  
LONG= 129.5 E  
DEPTH= 61 KM  
MAGNITUDE= 5.3  
RYUKYU ISLANDS

GRF	E Z BE	P	07 14 35.0				9650	86.8	52.4	325.1
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JAN 07 USCGS  
H= 21 57 05.8  
LAT = 51.6 N  
LONG= 159.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
OFF EAST COAST OF KAMCHATKA

GRF	E Z BE	P	22 08 50.0				8400	75.6	19.8	339.4
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JAN 1969 JAN 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

FUR -E Z SL APCP 22 09 14.0 1.7 1.52 2 8560 77.0 19.7 338.8

JAN 08  
NO DETERMINATION OF EPICENTER

GRF -E Z BE PN 12 46 21.4  
E Z BE PG 12 46 34.6  
E R BE SG 12 46 53.4

JAN 08  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 14 28 34.0 0.4  
E R BE SG 14 28 55.1

JAN 09  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 11 01 52.8  
E R BE SG 11 02 08.6

FUR +E Z SL - 11 03 22.0 1.5 1.67 8

JAN 09  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 11 09 11.-  
E R BE SG 11 09 54.-

JAN 09  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 38 55.7  
E R BE SG 12 39 11.6

JAN 09  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 13 27 17.-  
E R BE SG 13 27 28.-

JAN 09  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 13 40 19.-

JAN 1969 JAN 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

JAN 10 USCGS  
H= 03 20 54.9  
LAT = 29.0 N  
LONG= 130.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.5  
RYUKYU ISLANDS

GRF E Z BE P 03 33 29.5 1.0 1.30 2 9450 85.0 50.0 325.4  
+E Z BE AP 03 33 39.6 0.8 1.17 2

FUR +E Z SL P 03 33 34.0 2.0 2.12 4 9560 86.0 49.9 324.2  
-I Z SL AP 03 33 45.0 1.6 1.82 5  
+E Z SL XPCP 03 33 50.0 1.5 1.52 3

BNS E Z FS P 03 33 49.- 2 9580 86.1 47.1 328.1  
E Z FS - 04 12 20.-  
E FS LR 04 16 10.-

JAN 10 USCGS  
H= 04 32 03.6  
LAT = 39.4 N  
LONG= 20.3 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
GREECE-ALBANIA BORDER REGION

JAN 10 BCIS  
H= 04 32 03.0  
LAT = 39.2 N  
LONG= 19.8 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE-ALBANIA BORDER REGION

FUR +E Z SL P 04 34 38.0 1.9 1.99 3 1210 10.9 140.2 326.4  
+E Z SL S 04 36 36.0 2.0 2.05 3  
+E Z SL SSS 04 37 03.0 2.0 1.75 2  
-E Z SL - 04 37 15.0 2.0 1.97 3  
-E Z SL - 04 37 22.0 1.6 1.52 3  
Z SL MAXIMUM 04 39 20.0 4.0 2.85

JAN 10  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 55 10.-  
E R BE SG 12 55 25.2

JAN 10  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 14 24 13.3  
E R BE SG 14 24 17.5

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

JAN 10 USCGS  
 H= 16 17 31.1  
 LAT = 44.6 N  
 LONG= 12.0 E  
 DEPTH= 11 KM  
 MAGNITUDE= 4.5  
 NORTHERN ITALY

JAN 10 BCIS  
 H= 16 17 33.0  
 LAT = 44.5 N  
 LONG= 12.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTHERN ITALY

USCGS= FELT AT FORLI.  
 BCIS = I=V 1/4 - V 1/2

FUR	-E Z SL	PN	16 18 31.0	1.5	1.43	4	400	3.6	172.0	352.5
	+E Z SL	PR	16 18 41.0	1.0	2.21	1				
	-I Z SL	PG	16 18 55.0	1.0	2.29	3				
	-I Z SL	SN	16 19 18.0	1.3	2.36	7				
	+I Z SL	SR	16 19 32.0	1.6	1.83	1				
	-I Z SL	SG	16 19 36.0	1.2	2.48	2				
	Z SL	MAXIMUM	16 20 05.0	1.5	2.52					
STU	-E Z BE	PN	16 18 43.3	0.7	1.34		510	4.6	154.2	336.2
BUH	-E Z GT	PN	16 18 46.5	0.4	0.99	5	530	4.8	146.2	328.9
	E Z GT	PG	16 19 07.8	0.4		4				
KRL	E E ST	SN	16 19 45.5			2	560	5.0	149.6	332.2
GRF	E Z BE	PN	16 18 49.5			2	570	5.1	173.9	354.4
	E Z BE	PG	16 19 12.1	0.4	1.41					
	E BE	SG	16 20 20.-							
BNS	E Z FS	PN	16 19 19.0			2	790	7.1	151.2	334.7
	E E FS	SN	16 20 36.-							
	E FS	SG	16 21 25.8							

JAN 11 USCGS  
 H= 04 26 25.8  
 LAT = 28.4 S  
 LONG= 177.0 W  
 DEPTH= 68 KM  
 MAGNITUDE= 5.4  
 KERMADEC ISLANDS REGION

BNS	E Z SL	PKP	04 46 14.-				17490	157.3	9.5	353.2
GRF	-E Z BE	PKP	04 46 50.0	1.0	1.30	2	17550	157.9	19.4	345.8
FUR	-E Z SL	PKP2	04 46 57.0	1.6	1.67	4	17710	159.3	20.9	344.3

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

-E Z SL APKP 04 47 10.0 2.0 2.05 2

JAN 11 USCGS  
 H= 04 47 42.7  
 LAT = 28.5 S  
 LONG= 176.8 W  
 DEPTH= 68 KM  
 MAGNITUDE= 5.1  
 KERMADEC ISLANDS REGION

GRF	E Z BE	PKP	05 08 05.4				17570	158.0	19.1	346.0
FUR	-E Z SL	PKP2	05 08 11.0	1.8	1.94	2	17720	159.4	20.6	344.5
	-E Z SL	APKP	05 08 22.0	1.4	1.62	2				

JAN 11 USCGS  
 H= 05 02 55.9  
 LAT = 28.5 S  
 LONG= 176.7 W  
 DEPTH= 76 KM  
 MAGNITUDE= 5.2  
 KERMADEC ISLANDS REGION

BNS	E Z SL	+	05 30 41.-			2	17500	157.4	9.0	353.6
	E Z SL	LR	05 50 00.-							
	SL	MAXIMUM	05 56 00.-			20.0				
FUR	-E Z SL	PKP	05 22 50.0	2.0	1.88	4	17730	159.5	20.4	344.6
	-E Z SL	APKP	05 23 40.0	1.6	1.43	4				
	+E Z SL	XPKP	05 23 44.0	2.0	1.97	3				

JAN 11 USCGS  
 H= 06 27 29.0  
 LAT = 17.7 S  
 LONG= 176.8 W  
 DEPTH= 529 KM  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

GRF	-E Z BE	PKP	06 46 13.7	1.0	1.48	2	16350	147.0	17.8	348.0
FUR	-E Z SL	PKP	06 46 16.0	1.5	1.30	3	16510	148.5	18.7	347.0

JAN 11  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PG	08 58 29.7	0.5	1.02	3				
	+I R BE	SG	08 58 47.8	0.5	1.32	5				



JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 11 USCGS  
H= 10 21 51.9  
LAT = 38.4 N  
LONG= 26.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.1  
GREECE

JAN 11 BCIS  
H= 10 21 52.0  
LAT = 38.2 N  
LONG= 26.2 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE

FUR	+E Z SL	-	10 25 52.0	1.6	1.52	5	1300 11.7	143.6 329.6
	-E Z SL	SSS	10 27 20.0	1.5	1.60	6		
GRF	E Z BE	P	10 25 15.-				1450 13.0	147.3 333.5
	E Z BE	S	10 27 15.-					

JAN 11 USCGS  
H= 11 58 46.8  
LAT = 10.2 S  
LONG= 13.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
ASCENSION ISLAND REGION

FUR	-E Z SL	P	12 09 06.0	2.0	2.12	7	6900 62.1	207.5 18.3
	+E Z SL	AP	12 09 11.0	1.5	1.72	3		
	+E Z SL	XP	12 09 17.0	2.0	1.97	2		
GRF	-E Z BE	P	12 09 15.6				7050 63.4	207.0 17.5
BNS	E Z FS	P	12 09 16.-			2	7060 63.5	202.5 14.2
	E Z FS	LR	12 29 00.-	40.0				
	FS	MAXIMUM	12 37 00.-	19.0				

JAN 11  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 33 17.3	0.6	1.34	5		
	E Z BE	SN	12 33 33.5					
	E Z BE	SG	12 33 37.8					

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 13 USCGS  
H= 05 46 41.1  
LAT = 38.3 N  
LONG= 22.6 E  
DEPTH= 51 KM  
MAGNITUDE= 4.7  
GREECE

JAN 13 BCIS  
H= 05 46 38.0  
LAT = 38.0 N  
LONG= 22.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE

FUR	+E Z SL	-	05 52 31.0	1.4	1.62	5	1430 12.8	136.0 323.7
	-E Z SL	-	05 53 10.0	1.4	1.62	5		
	Z SL	MAXIMUM	05 55 00.0	3.0	2.65			
GRF	-E Z BE	P	05 50 05.2	1.4	2.00	2	1560 14.0	140.1 328.0

JAN 13 USCGS  
H= 07 57 07.0  
LAT = 34.7 N  
LONG= 25.2 E  
DEPTH= 47 KM  
MAGNITUDE= 4.6  
CRETE

JAN 13 BCIS  
H= 07 57 00.0  
LAT = 34.3 N  
LONG= 24.6 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
CRETE

FUR	+I Z SL	P	08 01 03.0	1.4	1.70	6	1890 17.0	137.4 326.7
	-E Z SL	Xp	08 01 15.0	1.6	1.60	1		
	+E Z SL	-	08 01 20.0	1.5	1.83	2		
	+E Z SL	PPP	08 01 25.0	1.5	1.60	1		
GRF	E Z BE	P	08 01 18.2	1.2	2.04	3	2020 18.2	140.5 329.9
BNS	E Z FS	P	08 01 47.-			2	2320 20.9	134.4 326.8
	E Z FS	-	08 02 21.-					

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 13 USCGS  
 H= 10 39 40.7  
 LAT = 5.7 S  
 LONG= 68.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 CHAGOS ARCHIPELAGO REGION

GRF	E Z BE	P	10 51 15.-				8230 74.0	119.7 325.5
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JAN 13 USCGS  
 H= 21 24 22.5  
 LAT = 18.8 S  
 LONG= 173.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 TONGA ISLANDS

BNS	E Z FS	PKP	21 42 54.-			2	16450 147.9	1.7 358.9
GRF	E Z BE	PKP	21 44 22.-				16560 149.0	9.2 353.7
FUR	-E Z SL	PKP2	21 44 18.0	1.0	2.21	5	16730 150.5	9.7 353.2

JAN 14 USCGS  
 H= 00 59 24.4  
 LAT = 46.8 N  
 LONG= 12.9 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 NORTHERN ITALY

JAN 14 BCIS  
 H= 00 59 19.0  
 LAT = 46.3 N  
 LONG= 13.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTHERN ITALY

FUR	+I Z SL	PN	00 59 57.0	1.0	2.51	5	200 1.8	142.0 323.2
	-E Z SL	SN	01 00 18.0	1.6	1.52	5		
	Z SL	MAXIMUM	01 01 10.0	1.5	2.12			
GRF	E Z BE	PN	01 00 13.-				350 3.1	158.9 340.1
	-I Z BE	PG	01 00 24.2	0.5	1.45	4		
	+E Z BE	SN	01 00 53.-	0.4	1.59	3		
	E Z BE	SG	01 01 11.-					
STU	-E Z BE	PN	01 00 13.3	0.7	1.72		350 3.2	127.7 310.4
	-E Z BE	PG	01 00 25.7	0.7	1.81			
	E N BE	SN	01 01 15.0	0.5	3.59			

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BUH	E Z GT	PN	01 00 19.5			2	410 3.7	119.7 303.1
	E Z GT	PG	01 00 35.-			2		

JAN 14 USCGS  
 H= 23 12 07.9  
 LAT = 36.2 N  
 LONG= 29.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 TURKEY

JAN 14 BCIS  
 H= 23 12 09.0  
 LAT = 36.2 N  
 LONG= 29.1 E  
 DEPTH= 50 KM  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= DAMAGE AT KAS AND KALKAN, FELT IN SOUTHWESTERN ANATOLIA.

FUR	-I Z SL	P	23 16 14.0	2.9	3.50	9	1980 17.8	125.6 317.7
	+I Z SL	XP	23 16 27.0	1.8	2.80	1		
	-I Z SL	PP	23 16 32.0	1.8	3.10	2		
	+I Z SL	PPP	23 16 43.0	1.0	2.81	1		
	+I Z SL	-	23 16 54.0	2.0	3.20	1		
	-I Z SL	-	23 17 00.0	1.0	3.29	1		
	-I Z SL	XS	23 19 54.0	2.3	2.85	3		
	+I Z SL	SS	23 20 06.0	2.3	3.15	1		
	-I Z SL	PCP	23 20 51.0	2.4	3.26	1		
	Z SL	MAXIMUM	23 24 00.0	6.5	4.42			
GRF	+I Z BE	P	23 16 25.8	1.0	2.05	9	2090 18.8	129.2 321.5
	E Z BE	S	23 20 05.-					
STU	+E Z BE	P	23 16 30.5	1.1	3.17		2150 19.3	123.2 316.8
	-E Z BE	S	23 20 00.0	14.0	3.10			
BUH	+E Z GT	P	23 16 36.5	2.5	2.58	5	2200 19.8	121.3 315.6
	E N GT	S	23 20 21.-					
KRL	-E Z ST	P	23 16 37.2	3.0	3.21	2	2210 19.9	122.4 316.6
BNS	+E Z FS	P	23 16 55.5				2410 21.6	124.6 320.0
	+I Z FS	-	23 17 04.0	3.0	3.66			
	I Z FS	S	23 20 55.0	3.3	2.60			
	I Z SL	-	23 20 58.-					
	E Z SL	LR	23 22 56.-	36.0				
	SL	MAXIMUM	23 26 40.-	15.0				
HAM	E Z wZ	P	23 17 03.-			1	2440 21.9	134.3 328.1
	+I Z SX	-	23 17 08.0			2		
HLG	-E Z X	P	23 17 12.-	3.0	2.84	1	2590 23.3	131.9 327.3
	E N X	-	23 17 17.-	1.2	2.57	2		
	E E X	-	23 17 20.-	1.2	2.25	2		

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
-I Z X	-		23	17	20.0	2.0	2.78	2				
-I Z X	PP		23	17	38.1	1.6	2.91	2				
+I E X	PP		23	17	39.2	1.0	2.89	2				
-I N X	PP		23	17	40.5	1.4	2.95	4				
-I E X	-		23	17	53.2	1.0	2.77	2				
E E X	S		23	21	20.-	4.8	3.68	1				

JAN 15  
NO DETERMINATION OF EPICENTER

FUR -I Z SL P 05 16 28.0 1.0 2.51 2

JAN 15 USCGS

H= 08 46 29.4  
LAT = 45.6 N  
LONG = 26.4 E  
DEPTH=135 KM  
MAGNITUDE= 4.5  
RUMANIA

JAN 15 BCIS

H= 08 46 29.0  
LAT = 45.7 N  
LONG = 26.7 E  
DEPTH=140 KM  
NO MAGNITUDE COMPUTED  
RUMANIA

FUR	+E Z SL	P	08 48 59.0	2.0	2.28	5	1190	10.7	98.5	289.5		
	+E Z SL	XP	08 49 10.0	1.6	1.52	3						
	+E Z SL	XPP	08 49 18.0	2.6	2.45	4						
GRF	+E Z BE	P	08 49 05.6	1.1	1.94	4	1230	11.1	106.2	297.4		
	E Z BE	XP	08 49 36.0									

JAN 15  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 09 44 15.3

JAN 15  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 31 55.5 0.3 0.85 2  
E R BE SG 12 32 10.5 0.4 1.06 2

JAN 15  
NO DETERMINATION OF EPICENTER

GRF -I Z BE PN 12 47 43.5 0.4 0.98 2  
+I Z BE PG 12 47 50.4 0.4 1.15 3  
E R BE SN 12 48 02.2

JAN 1969

21

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

E R BE SG 12 48 08.6 0.6 1.54 2

JAN 15  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 14 58 59.0 2.0 2.18 2

JAN 15 USCGS

H= 19 30 00.0  
LAT = 37.2 N  
LONG = 116.2 W  
DEPTH= 0 KM  
MAGNITUDE= 5.3  
SOUTHERN NEVADA

USCGS= 37 DEG 12 MIN 33 SEC N, 116 DEG 13 MIN 31 SEC W  
NEVADA TEST SITE #WINESKIN#.(AEC).  
MAG= 5.0 (BRK).

GRF -E Z HE P 19 42 22.1 1.0 1.30 2 9100 81.8 320.2 31.4

FUR +E Z SL P 19 42 25.0 2.0 2.05 6 9230 83.0 320.3 32.4

JAN 15  
NO DETERMINATION OF EPICENTER

GRF E Z BE P 22 07 12.-  
E R BE S 22 08 15.-

FUR -E Z SL - 22 08 53.0 1.2 2.06 6

JAN 16  
NO DETERMINATION OF EPICENTER

GRF -I Z BE PG 08 58 14.4 0.2 1.46 4  
E R BE SG 08 58 29.2 0.6 1.33 3

JAN 16  
NO DETERMINATION OF EPICENTER

BNS E Z FS - 13 15 50.0  
E Z FS SG 13 15 53.3 1.0 2.25  
E FS - 13 16 04.3 1.4 2.28



JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 16 USCGS  
H= 15 20 42.6  
LAT = 27.6 N  
LONG= 129.2 E  
DEPTH= 38 KM  
MAGNITUDE= 4.8  
RYUKYU ISLANDS

GRF	+E Z BE	P	15 33 20.3	1.6	2.16	3	9490 85.4	51.8 324.9
FUR	-E Z SL	AP	15 33 32.0	1.8	1.80	5	9600 86.3	51.8 323.6

JAN 16  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	19 21 00.0	2.0	2.05	3		
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JAN 17  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	12 51 51.2	0.4	0.80	1		
	E R BE	SG	12 52 09.8	0.4	0.91	2		

JAN 17  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	16 59 51.8	1.1	1.57	2		
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JAN 18 USCGS  
H= 03 02 38.7  
LAT = 56.8 S  
LONG= 26.8 W  
DEPTH=141 KM  
MAGNITUDE= 5.9  
SOUTH SANDWICH ISLANDS REGION

FUR	-E Z SL	XPKP	03 22 02.0	1.6	1.82	2	12160 109.3	201.0 25.9
GRF	E Z BE	PP	03 21 54.-				12310 110.7	201.2 25.3

JAN 18  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 34 06.1	0.5	1.04	2		
	E R BE	SN	12 34 21.5					
	+I R BE	SG	12 34 25.0	0.2	1.31	3		
	E R BE	L	12 34 39.6					

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 19 USCGS  
H= 07 02 04.4  
LAT = 45.0 N  
LONG= 143.2 E  
DEPTH=204 KM  
MAGNITUDE= 6.4  
HOKKAIDO, JAPAN REGION

HAM	+I Z SX	P	07 13 20.9			9	8240 74.1	32.5 333.1
	E Z WZ	XP	07 14 25.-			7		
	-I E WI	S	07 22 31.-			9		

HLG	+I Z X	P	07 13 19.4	1.6	3.80	9	8240 74.1	31.3 334.5
	+I E X	P	07 13 21.0	1.4	3.50	9		
	+I Z X	S	07 22 22.4	5.2	3.54	2		
	-I E X	S	07 22 31.2	3.6	3.51	2		
	-I Z X	-	07 23 08.7	3.0	3.52	5		
	-E Z X	L	07 40 59.-	7.2	3.11	2		

BOC	+I Z B4	P	07 13 34.2	1.5	3.19	3	8520 76.6	30.5 333.5
	-E E B4	S	07 22 56.6	4.0	4.96	9		

GRF	+I Z HE	P	07 13 35.3	0.8	1.25	2	8540 76.8	32.8 330.3
	E Z HE	S	07 23 03.7	4.6		2		

HNS	+I Z FS	P	07 13 36.6	1.4	3.57	9	8570 77.1	30.4 333.2
	I Z FS	AP	07 14 59.-					
	E FS	-	07 17 54.-					
	-I E SL	S	07 23 03.3	3.5	4.48	9		
	+E N SL	S	07 23 03.5	2.0	3.69			
	E SL	-	07 34 12.-	20.0				

TNS	E Z	P	07 13 37.6				8600 77.3	31.1 332.1
	I	S	07 23 06.0					

HEI	+I Z ST	P	07 13 41.3	2.0	3.77		8670 77.9	31.2 331.5
	-E E ST	S	07 23 11.8	5.0	4.18			

FUR	-I Z SL	P	07 13 42.0	1.8	3.40	9	8680 78.1	32.7 329.4
	-I Z SL	PCP	07 13 50.0	1.5	3.05	9		
	+I Z SL	APCP	07 14 36.0	2.0	2.93	7		
	+I Z SL	XP	07 14 52.0	2.5	3.28	1		
	+I Z SL	XPCP	07 14 58.0	3.0	3.52	1		
	+I Z SL	PP	07 16 40.0	1.5	2.70	2		
	-I Z SL	XPP	07 17 43.0	1.5	2.56	8		
	+I Z SL	-	07 19 34.0	2.0	2.75	2		
	+I Z SL	S	07 23 15.0	3.0	3.48	3		
	-I Z SL	-	07 24 15.0	2.5	3.76	4		
	Z SL	MAXIMUM	07 49 30.0	16.0	3.50			

STU	+I Z BE	P	07 13 43.3	1.0	3.63		8710 78.3	31.4 330.9
	E Z BE	AP	07 14 39.3	10.0	3.59			
	+E E BE	S	07 23 14.1	25.0	4.99			

KKL	+E Z ST	P	07 13 44.5	2.2	3.98	9	8710 78.4	31.0 331.5
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BUH	+E Z GT	P	07 13 46.0	2.0		9	8750 78.7	30.8 331.4
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JAN 1969			JAN 1969												
STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH				
			H	M	S				KM	DEG.	STAT.	EPIC.			
MSS	+E Z ST	P	07	13	46.5	2.0	3.86		8770	78.9	31.2	330.7			
	-E E ST	S	07	23	22.1	4.0	4.28								
RAV	+I Z ST	P	07	13	45.6	2.0	3.63		8790	79.0	31.6	330.1			
	-E E ST	S	07	23	21.6	4.0	4.45								
FEL	-E N ST	P	07	13	48.0				8840	79.5	30.6	331.1			
	-E E ST	S	07	23	27.5	6.2	3.69								
JAN 19															
NO DETERMINATION OF EPICENTER															
FUR	+E Z SL	-	13	53	38.0	1.5	1.60	3							
	+E Z SL	-	13	53	41.0	1.6	1.52	2							
	Z SL	MAXIMUM	13	54	00.0	1.5	1.83								
JAN 19 USCGS															
H= 18 50 52.1															
LAT = 14.9 S															
LONG= 167.2 E															
DEPTH=112 KM															
MAGNITUDE= 6.2															
NEW HEBRIDES ISLANDS															
HAM	E Z WZ	PKP	19	10	05.-			1	15300	137.5	33.6	340.0			
	E Z WZ	PKP2	19	10	15.-			2							
	+I Z WZ	-	19	14	43.-			7							
HLG	+I Z X	PKP	19	10	05.2	1.0	2.58	3	15300	137.6	30.4	342.1			
	+I Z X	PP	19	13	25.5	1.4	2.77	3							
	E Z X	-	19	14	38.-	5.2	3.64	1							
GRF	+E Z BE	PKP	19	10	03.1	0.8	1.77	3	15580	140.1	37.9	335.6			
	E Z BE	PP	19	13	08.-										
	E Z BE	XPP	19	13	48.-										
	+E Z BE	-	19	14	45.4	1.5	2.43	3							
	-E Z BE	PCSPKP	19	22	08.2	1.2	1.89	2							
	E Z BE	PPS	19	26	05.-										
BNS	E Z FS	P	19	08	08.-			2	15630	140.6	31.3	340.1			
	+I Z FS	PKP	19	10	02.3	1.2	2.32								
	E FS	PP	19	13	01.-	3.0	3.00								
	E Z SL	-	19	25	15.-										
	E Z SL	LR	19	57	00.-										
	SL	MAXIMUM	19	58	00.-	60.0									
FUR	+I Z SL	PKP	19	10	07.0	1.5	2.60	9	15710	141.3	39.1	334.1			
	-I Z SL	APKP	19	10	29.0	1.8	2.57	3							
	-I Z SL	XPKP	19	10	36.0	1.5	2.12	3							
	+I Z SL	PP	19	13	15.0	2.5	3.18	8							
	-I Z SL	APP	19	13	38.0	2.0	2.97	2							
	+I Z SL	PKS	19	13	54.0	1.6	2.43	4							
	-I Z SL	-	19	14	09.0	2.2	3.04	2							
	-I Z SL	-	19	14	35.0	1.5	2.30	6							
	+I Z SL	PPP	19	16	22.0	2.5	2.87	2							

JAN 1969			JAN 1969												
STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH				
			H	M	S				KM	DEG.	STAT.	EPIC.			
	-E Z SL	-	19	17	00.0	3.0	2.92	2							
	+I Z SL	PCPPKP	19	22	02.0	1.5	1.30	2							
	Z SL	MAXIMUM	19	59	00.0	33.0	5.10								
STU	+E Z BE	PKP	19	10	06.5	1.6	3.82		15750	141.7	35.7	336.4			
KHL	+E Z ST	PKP	19	10	08.6	1.4	2.50	4	15770	141.8	34.4	337.3			
BUH	+E Z GT	PKP	19	10	09.3	1.8	2.16	7	15800	142.1	34.4	337.2			
JAN 20 BCIS															
H= 05 59 40.0															
LAT = 43.2 N															
LONG= 15.3 E															
NO DEPTH COMPUTED															
NO MAGNITUDE COMPUTED															
ADRIATIC SEA															
FUR	-E Z SL	PN	06	01	00.0	1.5	1.60	3	630	5.6	149.0	331.9			
	+E Z SL	PG	06	01	34.0	2.0	1.97	3							
	+E Z SL	SN	06	02	04.0	1.8	1.70	2							
	-E Z SL	SB	06	02	17.0	1.2	2.00	5							
	Z SL	MAXIMUM	06	03	34.0	1.5	1.83								
GRF	E Z BE	PG	06	01	33.-				780	7.0	155.1	338.0			
	E R BE	SG	06	02	41.-										
JAN 20 USCGS															
H= 12 24 35.2															
LAT = 10.3 S															
LONG= 164.6 E															
DEPTH= 4 KM															
MAGNITUDE= 5.6															
SANTA CRUZ ISLANDS REGION															
GRF	E Z BE	PKP	12	44	02.-				15010	135.0	38.5	335.7			
BNS	E Z SL	PP	12	46	30.-				15060	135.4	32.5	339.8			
	E Z SL	-	12	58	22.-										
	E SL	LR	13	27	00.-	60.0									
FUR	-E Z SL	PKP	12	44	03.0	1.6	1.52	5	15140	136.1	39.5	334.3			
	-E Z SL	PP	12	46	38.0	4.0	2.70	1							
	N SL	MAXIMUM	13	44	30.0	20.0	3.70								
JAN 20															
NO DETERMINATION OF EPICENTER															
GRF	E Z BE	PG	12	45	07.0										
	E R BE	SG	12	45	16.4	1.2	1.72	2							

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JAN 20  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PN	12 59 28.7	0.4	1.06	3		
	+I Z BE	PG	12 59 30.6	0.4	1.11	3		
	E R BE	SN	12 59 51.8	0.5	1.04	2		
	+I R BE	SG	12 59 55.0	0.4	1.46	5		

JAN 20 USCGS

 H= 14 20 11.5  
 LAT = 54.9 N  
 LONG = 166.0 E  
 DEPTH = 23 KM  
 MAGNITUDE = 6.1

KOMANDORSKY ISLANDS REGION

HLG	+I Z X	P	14 31 21.7	1.8	2.80	3	7770 69.8	13.3 346.5
HAM	+I Z SX	P	14 31 25.1			9	7810 70.2	14.4 345.1
BNS	+I Z FS	P	14 31 41.0	1.6	2.46	9	8130 73.1	12.6 346.2
	E Z FS	-	14 32 14.-					
	E FS	-	14 34 24.5					
GRF	+I Z BE	P	14 31 44.4	1.2	2.35	9	8200 73.7	14.9 343.3
	E Z BE	-	14 32 39.-					
	-E Z BE	PP	14 34 31.1	1.6	2.45	3		
STU	+E Z BE	P	14 31 51.9	1.0	2.54		8330 74.9	13.6 344.4
BUH	+E Z GT	P	14 31 53.3	1.6	2.34	9	8360 75.2	13.1 345.0
FUR	-I Z SL	P	14 31 54.0	1.7	2.51	9	8360 75.2	14.8 342.8
	-E Z SL	Ap	14 32 01.0	1.8	2.21	1		
	-E Z SL	XP	14 32 07.0	1.5	1.83	3		
	+E Z SL	APCP	14 32 12.0	1.7	1.92	9		
	-E Z SL	PP	14 34 43.0	1.6	1.94	4		
	-E Z SL	APP	14 34 50.0	2.0	2.18	8		
	Z SL	MAXIMUM	15 08 00.0	21.0	3.82			

JAN 21 USCGS

 H= 01 47 29.6  
 LAT = 7.3 S  
 LONG = 128.3 E  
 DEPTH = 91 KM  
 MAGNITUDE = 5.6  
 BANDA SEA

FUR	-E Z SL	PP	02 06 55.0	1.0	2.11	4	12600 113.3	74.2 319.5
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 21 USCGS

 H= 08 05 40.1  
 LAT = 28.7 N  
 LONG = 43.6 W  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.2  
 NORTH ATLANTIC RIDGE

BNS	+I Z FS	P	08 13 47.0	4.0	2.70	3	4870 43.8	259.3 45.0
	E Z FS	-	08 14 18.-					
FUR	-E Z SL	P	08 14 04.0	1.5	1.52	3	5120 46.1	265.6 49.5
	+I Z SL	XP	08 14 20.0	1.2	2.15	4		
	+E Z SL	-	08 15 28.0	1.6	1.43	1		
	+E Z SL	PCP	08 15 40.0	1.5	1.67	2		
	+E Z SL	PP	08 15 55.0	1.6	1.60	2		
	N SL	MAXIMUM	08 34 30.0	18.0	3.79			
GRF	+E Z BE	P	08 14 03.4	2.2	2.16	1	5130 46.2	264.1 47.4

 JAN 21  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 42 37.0	1.5	1.60	3		
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 JAN 21  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	13 50 04.-					
	E R BE	SG	13 50 27.7	0.5	1.17	4		

JAN 21 USCGS

 H= 14 37 15.1  
 LAT = 38.3 N  
 LONG = 69.7 E  
 DEPTH = 52 KM  
 MAGNITUDE = 5.1  
 TADZHIK SSR

GRF	E Z BE	P	14 45 09.4	0.8		1	4740 42.6	82.6 305.1
FUR	-E Z SL	P	14 45 11.0	1.5	1.52	1	4760 42.8	81.0 302.9
	+E Z SL	-	14 46 14.0	1.5	1.52	5		

JAN 21 USCGS

 H= 20 38 00.7  
 LAT = 21.9 S  
 LONG = 169.9 E  
 DEPTH = 33 KM  
 MAGNITUDE = 4.9  
 LOYALTY ISLANDS REGION

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	-E Z BE	PKP	20	57	44.7	0.8	1.25	2	16410	147.5	39.0	333.9
BNS	E Z SL	PKP	20	57	44.-				16460	148.0	31.4	339.2
	E Z SL	-	20	57	54.5							
FUR	+E Z SL	PKP2	20	57	47.0	2.2	2.24	7	16530	148.7	40.7	332.0
	-E Z SL	XPKP	20	57	54.0	1.8	1.80	5				
	-E Z SL	APKP	20	57	59.0	1.2	2.15	7				

JAN 21 USCGS

H= 23 12 10.0

LAT = 55.9 N

LONG= 163.0 E

DEPTH= 23 KM

MAGNITUDE= 4.8

OFF EAST COAST OF KAMCHATKA

GRF	-I Z BE	P	23	23	35.2	1.0	1.70	4	8020	72.1	16.2	341.2
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JAN 22 USCGS

H= 00 42 30.0

LAT = 55.9 N

LONG= 163.0 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 5.5

OFF EAST COAST OF KAMCHATKA

BNS	I Z FS	P	00	53	48.7	1.4	1.78	2	7970	71.7	14.1	344.2
	E Z FS	-	00	53	57.-							
GRF	+I Z BE	P	00	53	53.9	1.3	2.13	7	8030	72.2	16.3	341.2
STU	+E Z BE	P	00	54	00.6	1.1	3.70		8170	73.5	15.0	342.3
FUR	+I Z SL	P	00	54	03.0	1.4	1.96	6	8190	73.7	16.2	340.7
	-E Z SL	AP	00	54	11.0	1.6	1.60	3				
	N SL	MAXIMUM	01	35	40.0	13.0	3.50					
BUH	+E Z GT	P	00	54	02.0	1.0	1.65	6	8200	73.7	14.5	342.9

JAN 22 USCGS

H= 03 17 33.3

LAT = 55.9 N

LONG= 163.0 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 5.0

OFF EAST COAST OF KAMCHATKA

GRF	+E Z BE	P	03	28	57.0	0.9	1.28	2	8030	72.2	16.2	341.2
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
JAN 22 NO DETERMINATION OF EPICENTER												
GRF	E Z BE	PN	12	48	17.7	0.6	1.05	3				
	E Z BE	PG	12	48	23.9	0.4	0.98	3				
	E R BE	SN	12	48	33.5							
	E R BE	SG	12	48	42.4							
	E R BE	-	12	48	52.9							

JAN 22

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	15	46	57.-							
	E Z BE	-	15	47	15.-							
	E R BE	SG	15	47	30.7	0.8	1.17	2				
FUR	+E Z SL	-	15	48	11.0	1.8	1.80	5				

JAN 22 USCGS

H= 17 14 42.8

LAT = 49.3 N

LONG= 155.5 E

DEPTH= 50 KM (GEOPHYSICIST)

MAGNITUDE= 5.4

KURIL ISLANDS

BNS	+I Z FS	P	17	26	28.7	1.4	1.70	2	8500	76.5	20.7	340.0
	E Z FS	-	17	26	49.-							
GRF	-I Z BE	P	17	26	31.2	0.8	1.85	6	8530	76.7	23.1	337.1
	E Z BE	PCP	17	26	56.-							
STU	+E Z BE	P	17	26	37.3	1.0	1.88		8680	78.0	21.8	338.0
FUR	-I Z SL	P	17	26	38.0	1.7	0.96	9	8680	78.1	23.0	336.4
	-E Z SL	-	17	26	41.0	1.5	0.82	1				
	Z SL	MAXIMUM	17	36	00.0	17.0	3.26					

JAN 23

NO DETERMINATION OF EPICENTER

GRF	+I Z HE	PG	14	53	41.5	0.5	1.04	3				
	E R HE	SG	14	53	59.8	0.4	1.11	2				

JAN 23 USCGS

H= 18 28 30.9

LAT = 39.5 N

LONG= 0.7 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.3

SPAIN



JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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JAN 23 BCIS  
 H= 18 28 31.0  
 LAT = 39.3 N  
 LONG= 0.3 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 SPAIN

USCGS= FELT AT VALENCIA.

FUR	+E Z SL	-	18 34 18.0	1.6	1.11	2	1360	12.2	229.4	41.1
	Z SL	MAXIMUM	18 36 10.0	2.0	2.12					
BNS	E Z FS	-	18 35 18.-				1410	12.7	208.8	23.2
	E Z FS	-	18 35 27.-							
	E FS	-	18 35 41.-							
GRF	E Z BE	-	18 35 42.-				1470	13.2	224.3	35.9

JAN 24 USCGS

H= 02 33 03.5  
 LAT = 21.9 S  
 LONG= 179.6 W  
 DEPTH=595 KM  
 MAGNITUDE= 5.9  
 FIJI ISLANDS REGION

HLG	E E X	PKP	02 51 39.-	1.8	2.98	2	16380	147.3	12.9	351.9
	E N X	PKP	02 51 39.-	2.0	3.05	3				
	-I Z X	PKP	02 51 41.8	1.8	3.43	9				
	-I Z X	APKP	02 54 24.8	1.0	2.74	4				
BNS	-I Z FS	PKP	02 51 43.5	2.0	2.38	6	16740	150.5	12.8	351.3
	-I Z FS	-	02 51 50.0	1.2	3.04					
	I FS	APKP	02 54 06.-							
	I Z SL	PP	02 55 07.-							
	I Z SL	-	02 59 00.-							
	E SL	-	03 04 57.-							
GRF	-E Z BE	PKP	02 51 44.2	1.6	2.28	5	16790	151.0	21.0	345.5
	-I Z BE	-	02 51 51.1	1.2	2.70	9				
	-I Z BE	PKP2	02 52 01.5	1.2	2.73	7				
	E Z BE	PP	02 55 32.-							
	-I Z BE	-	03 04 16.2	1.2	1.97	3				
TNS	I Z	PKP	02 51 44.0				16790	151.0	15.5	349.3
HEI	-E Z ST	PKP	02 51 44.7	2.5	2.50		16880	151.8	16.5	348.5
KRL	-E Z ST	PKP	02 51 46.7	1.8	2.88	6	16920	152.2	16.1	348.7
	-E Z ST	-	02 51 54.4							
STU	-I Z BE	PKP	02 51 45.9	1.4	2.95		16930	152.3	17.7	347.5
FUR	+I Z SL	P	02 51 46.0	2.0	2.73	9	16940	152.4	22.2	344.2

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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	+I Z SL	-	02 51 54.0	1.7	2.62	9				
	+I Z SL	PKP2	02 52 08.0	1.5	2.83	9				
	+E Z SL	APKP	02 54 05.0	2.2	2.40	2				
	+I Z SL	APKP	02 54 24.0	1.6	2.23	9				
	+I Z SL	XPKP	02 55 16.0	1.5	2.00	9				
	+I Z SL	PP	02 55 45.0	2.0	2.58	2				
	-I Z SL	PKS	02 56 07.0	3.0	3.14	3				
	+I Z SL	-	02 56 31.0	1.8	2.40	9				
	+I Z SL	-	02 57 32.0	2.0	2.46	9				

BUH	-I Z GT	PKP	02 51 46.4	1.8	2.33	9	16960	152.5	15.9	348.7
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JAN 25  
 NO DETERMINATION OF EPICENTER

BNS	-I Z FS	P	03 03 03.9	1.4	1.70	2				
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JAN 25 USCGS

H= 05 19 17.1  
 LAT = 0.8 N  
 LONG= 126.1 E  
 DEPTH= 24 KM  
 MAGNITUDE= 5.9  
 MOLUCCA PASSAGE

GRF	E Z HE	P	05 33 28.-				11700	105.2	70.1	322.4
	E Z HE	-	05 36 44.-							
	-E Z HE	PP	05 37 45.7	0.9	1.28	2				
FUR	-E Z SL	P	05 33 28.0	1.6	1.52	3	11750	105.7	70.5	320.9
	-I Z SL	PP	05 37 55.0	1.5	2.00	3				
	E SL	MAXIMUM	06 26 00.0	22.0	3.63					
BNS	E Z FS	P	05 33 35.-				11910	107.1	66.4	324.6
	E Z FS	-	05 38 08.-							
	E FS	-	05 46 06.-							
	E Z SL	-	05 58 30.-							
	E Z SL	LR	06 10 00.-							
	SL	MAXIMUM	06 24 00.-	21.0						

JAN 25 USCGS

H= 11 05 50.6  
 LAT = 32.5 S  
 LONG= 178.0 W  
 DEPTH= 14 KM  
 MAGNITUDE= 4.7  
 SOUTH OF KERMADEC ISLANDS

GRF	E Z BE	PKP	11 26 33.-				17950	161.5	25.1	340.9
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 25 USCGS  
 H= 12 10 13.3  
 LAT = 55.9 N  
 LONG= 162.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NEAR EAST COAST OF KAMCHATKA

GRF	-E Z HE	P	12 21 37.5	1.6	1.86	2	8020 72.1	16.3 341.1
FUR	+E Z SL	APCP	12 22 05.0	1.6	1.30	3	8180 73.6	16.2 340.7
	+E Z SL	XPCP	12 22 10.0	1.6	1.30	3		

JAN 25  
 NO DETERMINATION OF EPICENTER

GRF	-E Z HE	PG	12 52 21.6	0.4	1.13	4		
	I Z HE	-	12 52 30.6	0.4	1.11	3		
	E R HE	-	12 52 40.8					
	-E R HE	SG	12 52 48.8	0.6	1.70	4		

JAN 25 USCGS  
 H= 23 34 28.4  
 LAT = 22.9 N  
 LONG= 92.3 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.2  
 INDIA-EAST PAKISTAN BORDER REG.

GRF	E Z HE	P	23 45 21.2	1.6	1.86	2	7480 67.2	81.1 315.9
	E Z HE	AP	23 45 34.4	1.8	2.08	3		
FUR	-E Z SL	P	23 45 21.0	2.0	1.88	4	7500 67.5	80.5 314.3
	-E Z SL	XP	23 45 36.0	1.0	2.21	5		

JAN 26  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	00 12 30.0	1.4	1.62	5		
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JAN 26 USCGS  
 H= 09 59 12.1  
 LAT = 38.2 N  
 LONG= 73.8 E  
 DEPTH=138 KM  
 MAGNITUDE= 5.1  
 TADZHIK-SINKIANG BORDER REGION

GRF	+E Z HE	P	10 07 18.5	1.3	1.68	3	5030 45.3	79.9 305.7
	E Z HE	PP	10 08 51.0					

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 26 USCGS  
 H= 14 26 17.2  
 LAT = 35.6 N  
 LONG= 6.0 E  
 DEPTH= 31 KM  
 MAGNITUDE= 4.7  
 ALGERIA

JAN 26 BCIS  
 H= 14 26 17.0  
 LAT = 36.4 N  
 LONG= 6.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALGERIA

FUR	-E Z SL	P	14 29 25.0	1.8	1.40	1	1460 13.2	199.1 15.6
	+E Z SL	-	15 24 30.0	2.0	1.97	5		
	-E Z SL	XPP	15 29 44.0	1.6	1.67	2		

JAN 26 USCGS  
 H= 15 05 32.7  
 LAT = 55.8 N  
 LONG= 162.9 E  
 DEPTH= 16 KM  
 MAGNITUDE= 5.5  
 NEAR EAST COAST OF KAMCHATKA.

BNS	+E Z FS	P	15 16 53.5				7970 71.7	14.1 344.1
	E Z FS	PP	15 19 24.-					
	E FS	LR	15 42 00.-					
GRF	+E Z HE	P	15 16 59.0	1.3	1.92	5	8030 72.2	16.3 341.1
STU	E Z HE	P	15 17 05.1	1.5	2.22		8170 73.5	15.1 342.2
FUR	-E Z SL	P	15 17 07.0	1.5	1.72	4	8190 73.7	16.2 340.7
	-E Z SL	-	15 17 10.0	1.5	1.72	4		
	-I Z SL	XP	15 17 17.0	2.0	2.35	6		
	+E Z SL	APCP	15 17 30.0	1.8	2.00	2		
	Z SL	MAXIMUM	15 53 00.0	18.0	3.41			
BUH	+E Z GT	P	15 17 07.8	1.4	1.69	4	8200 73.7	14.5 342.8

JAN 26 USCGS  
 H= 15 39 58.5  
 LAT = 25.1 N  
 LONG= 122.6 E  
 DEPTH=146 KM  
 MAGNITUDE= 5.1  
 TAIWAN REGION

FUR	-E Z SL	P	15 52 17.0	1.6	1.52	5	9420 84.7	58.0 321.2
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-E Z SL	AP		15 52 56.0	1.4	1.52	2		
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JAN 26 USCGS

H= 15 49 00.1  
 LAT = 55.9 N  
 LONG= 162.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 NEAR EAST COAST OF KAMCHATKA

GRF	E Z BE	P	16 00 22.-				8030 72.2	16.3 341.1
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JAN 26 USCGS

H= 16 26 13.7  
 LAT = 55.9 N  
 LONG= 162.9 E  
 DEPTH= 19 KM  
 MAGNITUDE= 4.7  
 NEAR EAST COAST OF KAMCHATKA

GRF	E Z BE	P	16 37 39.3				8020 72.1	16.3 341.1
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JAN 26 USCGS

H= 16 45 15.1  
 LAT = 56.0 N  
 LONG= 163.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NEAR EAST COAST OF KAMCHATKA

GRF	-I Z BE	P	16 56 39.1	1.0	1.70	5	8020 72.1	16.2 341.2
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JAN 26 USCGS

H= 16 48 52.7  
 LAT = 55.9 N  
 LONG= 163.0 E  
 DEPTH= 21 KM  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF KAMCHATKA

GRF	+E Z BE	P	17 00 18.0	0.9		1	8030 72.2	16.2 341.2
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FUR	+E Z SL	P	17 00 26.0	1.5	1.43	4	8190 73.6	16.1 340.7
	-E Z SL	AP	17 00 32.0	1.8	1.80	5		

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 27 USCGS

H= 02 54 40.2  
 LAT = 30.6 S  
 LONG= 177.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 KERMADEC ISLANDS

GRF	E Z BE	PKP	03 15 16.-				17780 159.9	21.5 344.0
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FUR	-E Z SL	PKP2	03 15 23.0	1.0	2.11	4	17930 161.3	23.3 342.1
	+E Z SL	APKP	03 15 37.0	1.5	1.52	5		

JAN 27 USCGS

H= 03 09 16.0  
 LAT = 30.6 S  
 LONG= 177.2 W  
 DEPTH= 24 KM  
 MAGNITUDE= 5.0  
 KERMADEC ISLANDS

GRF	E Z BE	PKP	03 29 55.-				17780 159.9	21.5 344.0
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FUR	-E Z SL	APKP	03 30 08.0	1.6	1.43	4	17930 161.3	23.3 342.1
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JAN 27 USCGS

H= 06 37 57.6  
 LAT = 80.8 N  
 LONG= 121.9 E  
 DEPTH= 37 KM  
 MAGNITUDE= 5.0  
 EAST OF SEVERNAYA ZEMLYA

GRF	+E Z BE	P	06 46 07.8	1.6	2.03	3	4940 44.5	12.4 299.8
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FUR	-E Z SL	AP	06 46 27.0	1.5	1.67	4	5110 46.0	12.1 299.3
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JAN 27 USCGS

H= 10 01 05.7  
 LAT = 30.9 S  
 LONG= 179.7 W  
 DEPTH= 300 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 KERMADEC ISLANDS REGION

BNS	I Z FS	PKP	10 21 09.0	1.7	1.70	2	17720 159.4	16.9 347.7
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GRF	+I Z BE	APKP	10 21 10.0	1.2	1.89	5	17740 159.6	27.7 339.5
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FUR	-I Z SL	PKP2	10 21 15.0	1.5	1.97	9	17890 160.9	29.9 337.2
	+E Z SL	APKP	10 21 52.0	1.6	1.43	4		

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 27 USCGS  
 H= 10 06 27.6  
 LAT = 15.0 S  
 LONG= 177.5 W  
 DEPTH=420 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

GRF	+I Z BE	PKP	10 25 17.4	1.0	1.85	6	16090 144.7	14.7 350.2
FUR	+E Z SL	PKP	10 25 21.0	1.4	1.62	5	16250 146.1	15.4 349.4

JAN 27 USCGS  
 H= 10 59 27.2  
 LAT = 37.3 N  
 LONG= 71.5 L  
 DEPTH= 49 KM  
 MAGNITUDE= 5.2  
 AFGHANISTAN-USSR BORDER REGION

FUR	+E Z SL	P	11 07 36.0	1.4	1.52	4	4950 44.5	81.0 304.0
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JAN 27 USCGS  
 H= 13 15 24.4  
 LAT = 8.8 N  
 LONG= 137.7 E  
 DEPTH= 5 KM  
 MAGNITUDE= 5.5  
 WEST CAROLINE ISLANDS

FUR	+E Z SL	P	13 29 41.0	2.0	1.97	5	11820 106.3	55.9 325.9
	+E Z SL	PP	13 34 14.0	1.6	1.52	3		
	Z SL	MAXIMUM	14 23 00.0	17.0	3.72			
BNS	E Z SL	PP	13 34 10.-				11880 106.8	51.7 329.9
	E Z SL	SP	13 43 20.-					
	E SL	LR	14 06 14.-	60.0				

JAN 27 USCGS  
 H= 18 37 42.2  
 LAT = 43.7 N  
 LONG= 140.7 E  
 DEPTH=220 KM  
 MAGNITUDE= 4.6  
 HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	18 49 14.2	1.1	1.38	2	8560 77.0	35.1 329.0
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JAN 27 USCGS  
 H= 18 41 45.1  
 LAT = 20.5 S  
 LONG= 169.6 E  
 DEPTH= 46 KM  
 MAGNITUDE= 4.6  
 NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP	19 01 20.4	0.8	1.29	2	16250 146.2	38.3 334.6
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JAN 28 USCGS  
 H= 00 27 31.2  
 LAT = 14.8 S  
 LONG= 173.4 W  
 DEPTH= 13 KM  
 MAGNITUDE= 5.2  
 SAMOA ISLANDS REGION

GRF	+E Z BE	PKP	00 47 11.7	1.6	1.86	2	16130 145.0	7.9 354.7
STU	E Z BE	PKP	00 47 14.6	1.0	1.86		16250 146.1	4.6 356.9
FUR	-E Z SL	PKP	00 47 15.0	2.0	1.88	4	16300 146.5	8.3 354.3
	-E Z SL	XPKP	00 47 23.0	1.6	1.78	9		
	+I Z SL	APKP	00 47 29.0	1.6	1.82	9		

JAN 28  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	04 39 12.7	0.5	0.91	3		
	E R BE	SG	04 40 00.-					
FUR	-E Z SL	-	04 39 13.0	1.2	2.00	5		

JAN 28  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	07 37 32.0	2.0	2.05	6		
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JAN 28  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	07 41 14.0	1.5	1.60	6		
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JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH STAT. EPIC. DEG.
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JAN 28 USCGS  
 H= 11 29 44.7  
 LAT = 21.9 S  
 LONG= 179.7 W  
 DEPTH=640 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.5  
 FIJI ISLANDS REGION

GRF	E Z HE	PKP	11 48 28.8				16790 151.0	21.2 345.3
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JAN 28 BCIS  
 H= 21 25 56.0  
 LAT = 50.6 N  
 LONG= 8.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

BNS = H=21 25 58 GMT, 50 DEG 22 MIN N, 8 DEG 03 MIN E  
 FELT IN THE REGION OF LIMBURG/LAHN, GERMANY, MAXIMUM INTENSITY=IV,  
 SHAKEN AREA F=850 SQKM, MAXIMUM RADIUS OF PERCEPTIBILITY R=30 KM.

BNS	+I Z X	PG	21 26 13.1			2	100 0.9	112.9 293.9
	+I N X	SG	21 26 24.8	0.5	2.65			
	I X	SG	21 26 24.7	0.4	2.43			
HEI	E Z ST	PG	21 26 17.1	0.7	1.46		130 1.2	353.2 173.0
	E N ST	SG	21 26 32.3	0.5	2.48			
STU	-I Z BE	PG	21 26 31.0	0.5	1.79		210 1.9	346.4 165.9
	E E BE	SG	21 26 53.0	0.7	2.27			
BUH	+I Z GT	PN	21 26 29.3			5	220 1.9	5.1 185.3
GRF	E Z HE	PN	21 26 37.4				220 2.0	298.5 116.4
	+I Z BE	PG	21 26 39.2	0.4	1.15	3		
	E R BE	SG	21 27 05.9	0.4	1.26	3		

JAN 29  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	08 57 07.-					
	E R BE	SG	08 57 22.0	0.6	1.19	3		

JAN 29  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 51 22.7	1.5	1.27	5		
	-I Z HE	-	12 51 28.5					
	-I Z BE	-	12 51 32.5	0.5	1.32	3		
	+I R BE	SN	12 51 41.4	0.6	1.59	8		
	+I R BE	SG	12 51 47.3	0.6	1.65	9		

JAN 1969

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH STAT. EPIC. DEG.
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JAN 29  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PG	13 09 16.2	0.4	1.29	3		
	E R BE	SG	13 09 31.6					

JAN 29 USCGS  
 H= 17 44 31.1  
 LAT = 17.2 S  
 LONG= 171.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.0  
 TONGA ISLANDS REGION

BNS	-I Z FS	PKP	18 04 09.0	1.5	3.19	9	16270 146.3	357.8 1.4
	E Z FS	LR	18 04 00.-					
		FS	19 04 00.-	20.0				
GRF	-E Z BE	PKP	18 04 11.6	1.4	2.00	4	16400 147.5	5.0 356.6
	+I Z BE	-	18 04 12.2	1.2	2.31	7		
HEI	+E Z ST	PKP	18 04 10.2	2.5	2.10	9	16450 147.9	0.5 359.6
KRL	E Z ST	PKP	18 04 13.-			2	16490 148.3	360.0 0.0
	+I Z ST	-	18 04 16.8	2.0	3.23	7		
STU	+E Z BE	PKP	18 04 12.6	1.3	2.48	6	16510 148.5	1.4 359.0
BUH	E Z GT	PKP	18 04 12.-	1.5	1.74	3	16530 148.6	359.6 0.3
FUR	-I Z SL	PKP	18 04 13.0	1.7	2.07	7	16570 149.0	5.3 356.3
	-I Z SL	-	18 04 18.0	1.5	2.60	4		
	-I Z SL	APKP	18 04 27.0	1.5	2.37	4		
	+I Z SL	APKP	18 04 33.0	1.5	2.22	1		
	+I Z SL	XPXP	18 04 39.0	1.5	2.00	3		
	-I Z SL	-	18 04 46.0	1.6	2.03	4		
	+I Z SL	-	18 05 20.0	1.5	2.03	3		
	-I Z SL	-	18 05 29.0	1.3	2.19	3		
	+I Z SL	-	18 05 54.0	1.5	2.00	3		

JAN 30 USCGS  
 H= 02 33 34.1  
 LAT = 4.1 S  
 LONG= 126.4 E  
 DEPTH= 68 KM  
 MAGNITUDE= 5.5  
 TALAUD ISLANDS

BNS	E Z FS	P	02 47 21.-				11640 104.7	64.1 325.2
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JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
JAN 30 USCGS H= 10 29 40.4 LAT = 4.8 N LONG= 127.4 E DEPTH= 70 KM (GEOPHYSICIST) MAGNITUDE= 5.9 TALAUD ISLANDS												
HAM	E Z SX	P	10	43	39.-			1	11350	102.0	64.7	327.2
HOF	S WI	MAXIMUM	11	26	00.0	44.0	5.80		11370	102.2	66.9	323.7
HLG	-I Z X	PP	10	48	00.0	1.6	3.07	3	11430	102.8	62.7	328.4
	E E X	PP	10	48	00.-	1.6	2.89	2				
GRF	+E Z BE	P	10	43	35.2	1.6	2.03	2	11440	102.9	66.5	323.3
	+E Z BE	XP	10	44	05.0	1.6	2.51	3				
	-E Z BE	-	10	44	17.3	1.6	2.81	9				
	E Z BE	PP	10	47	48.-							
	E Z BE	PS	10	56	40.-							
FUR	+E Z SL	P	10	43	36.0	1.8	2.00	4	11500	103.4	66.9	321.8
	-E Z SL	XP	10	43	50.0	1.8	2.27	5				
	+I Z SL	-	10	44	12.0	1.5	2.12	9				
	-I Z SL	PP	10	47	56.0	2.0	2.97	3				
	+I Z SL	APP	10	48	05.0	1.5	2.53	1				
	+I Z SL	-	10	48	15.0	2.0	2.88	1				
	+I Z SL	PPP	10	50	12.0	2.2	2.94	2				
	+I Z SL	SKS	10	54	08.0	1.5	5.12	9				
	-I Z SL	XS	10	55	31.0	2.2	2.57	9				
	+I Z SL	SP	10	56	55.0	2.4	3.00	5				
Z SL	MAXIMUM	11	21	00.0	48.0	5.11						
Z SL	MAXIMUM	11	36	30.0	20.0	5.20						
STU	+E Z SL	PKP	10	43	36.1	18.0	3.98	9	11620	104.5	65.0	323.0
BNS	+E Z FS	P	10	43	43.0				11640	104.7	62.8	325.6
	E Z FS	-	10	44	12.-	2.6	2.76					
	E FS	PKP	10	47	14.-							
	I Z SL	PP	10	47	59.-	1.5	2.65					
	I Z SL	PS	10	57	12.3							
E SL	LR	11	20	00.-	60.0							
KRL	E Z WH	P	10	43	38.-			2	11660	104.8	64.3	323.4
BUH	E Z GT	P	10	43	43.-	3.0	2.39	3	11680	105.1	64.3	323.2

JAN 30 USCGS  
 H= 17 19 35.0  
 LAT = 4.9 N  
 LONG= 127.5 E  
 DEPTH= 72 KM  
 MAGNITUDE= 5.3  
 TALAUD ISLANDS

JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	E Z BE	PP	17	37	37.-				11440	102.9	66.4	323.3
FUR	+E Z SL	PP	17	37	51.0	1.5	1.60	6	11500	103.4	66.8	321.9
JAN 30 NO DETERMINATION OF EPICENTER												
GRF	E Z BE	PG	18	18	24.3							
	E R BE	SG	18	18	54.3	0.3	0.85	3				
JAN 30 USCGS H= 18 36 37.3 LAT = 4.0 N LONG= 123.0 E DEPTH= 521 KM MAGNITUDE= 5.3 CELEBES SEA												
GRF	+I Z BE	PP	18	53	52.0	1.0	1.65	3	11210	100.8	70.6	322.1
JAN 31 USCGS H= 00 44 13.3 LAT = 4.2 N LONG= 128.1 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.7 NORTH OF HALMAHERA												
GRF	E Z BE	P	00	58	14.-				11540	103.8	66.3	323.4
	-E Z BE	AP	00	58	34.7	1.4	1.70	2				
	E Z BE	-	01	01	59.7							
	-E Z BE	PP	01	02	29.0	0.8	1.17	2				
FUR	+E Z SL	P	00	58	21.0	1.0	1.81	2	11600	104.3	66.7	321.9
	-E Z SL	PP	01	02	38.0	4.0	2.97	2				
	+I Z SL	APP	01	02	53.0	1.5	1.82	9				
	-I Z SL	XPP	01	02	57.0	2.0	2.28	2				
	Z SL	MAXIMUM	01	39	30.0	40.0	3.73					
	E SL	MAXIMUM	01	48	30.0	18.0	4.20					
BNS	E Z FS	PP	01	02	30.5				11740	105.5	62.7	325.7
	E Z FS	-	01	12	00.-							
	E FS	LR	01	37	50.-							

JAN 31 USCGS  
 H= 04 10 26.3  
 LAT = 53.5 N  
 LONG= 158.7 E  
 DEPTH= 145 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.2  
 NEAR EAST COAST OF KAMCHATKA

JAN 1969 JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

BNS	-I Z FS	P	04	21	42.9	1.5	2.04	6	8140	73.2	17.3	341.6
GRF	-I Z BE	P	04	21	45.5	0.9	1.67	6	8180	73.6	19.6	338.6
FUR	-I Z SL	P	04	21	53.0	1.2	2.08	3	8340	75.0	19.5	338.1
BUH	-E Z GT	P	04	21	54.4	1.0	1.47	4	8360	75.2	17.8	340.2

JAN 31 USCGS  
 H= 11 21 26.7  
 LAT = 4.2 N  
 LONG= 128.1 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 NORTH OF HALMAHERA

FUR	+E Z SL	-	11	36	34.0	1.2	2.00	1	11600	104.3	66.7	321.9
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JAN 31  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12	47	05.5	0.4	1.21	3				
	E R BE	SG	12	47	23.2	0.6	1.11	2				

JAN 31 USCGS  
 H= 13 48 22.2  
 LAT = 4.3 N  
 LONG= 128.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 NORTH OF HALMAHERA

GRF	E Z BE	PP	14	06	45.-				11530	103.7	66.3	323.4
FUR	-E Z SL	PP	14	06	46.0	1.4	1.62	5	11590	104.3	66.7	321.9
	-I Z SL	-	14	07	18.0	1.5	1.82	9				

JAN 31 USCGS  
 H= 14 40 03.8  
 LAT = 34.3 N  
 LONG= 26.3 E  
 DEPTH= 34 KM  
 MAGNITUDE= 5.1  
 CRETE

 JAN 1969 JAN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

JAN 31 BCIS  
 H= 14 40 04.0  
 LAT = 34.1 N  
 LONG= 26.0 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	+E Z SL	P	14	44	11.0	1.0	2.11	2	1980	17.8	135.5	325.5
	+E Z SL	PP	14	44	27.0	1.0	2.21	5				
	-E Z SL	XPP	14	44	43.0	1.3	1.96	6				
GRF	-E Z BE	P	14	44	24.6	0.8	1.25	2	2110	19.0	138.5	328.7

JAN 31 USCGS  
 H= 14 59 34.3  
 LAT = 15.5 S  
 LONG= 175.0 W  
 DEPTH= 262 KM  
 MAGNITUDE= 5.4  
 TONGA ISLANDS

BNS	-I Z FS	PKP	15	18	40.0	1.3	2.82		16070	144.5	3.6	357.6
	E Z FS	-	15	18	50.5							
	E FS	-	15	19	50.-							
GRF	-E Z BE	PKP	15	18	43.5	1.4	2.24	6	16180	145.5	10.6	352.9
	E Z BE	APKP	15	19	50.-							
FUR	+E Z SL	PKP	15	18	44.0	1.5	1.67	7	16340	147.0	11.2	352.3
	+I Z SL	PKP2	15	18	47.0	1.5	2.37	5				
	+I Z SL	APKP	15	19	54.0	1.6	1.67	4				
	-I Z SL	-	15	20	04.0	1.4	1.70	6				
	-I Z SL	XPKP	15	20	09.0	1.2	2.08	3				

JAN 31 USCGS  
 H= 15 34 30.9  
 LAT = 39.1 N  
 LONG= 20.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 GREECE-ALBANIA BORDER REGION

JAN 31 BCIS  
 H= 15 34 31.0  
 LAT = 39.0 N  
 LONG= 20.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE-ALBANIA BORDER REGION

FUR	-E Z SL	XPP	15	37	29.0	1.5	1.11	1	1230	11.1	141.1	327.2
	+E Z SL	S	15	39	09.0	1.6	1.52	5				



JAN 1969 JAN 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

Z SL MAXIMUM 15 42 20.0 2.0 2.05

JAN 31 USCGS  
H= 23 31 16.2  
LAT = 32.1 S  
LONG= 179.6 E  
DEPTH=391 KM  
MAGNITUDE= 5.2  
SOUTH OF KERMADEC ISLANDS

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include BNS, GRF, FUR, and STU stations with various seismic data.

FEB 01 NO DETERMINATION OF EPICENTER

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF station.

FEB 01 NO DETERMINATION OF EPICENTER

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF station.

FEB 01 NO DETERMINATION OF EPICENTER

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF station.

FEB 01 BCIS  
H= 15 39 16.0  
LAT = 47.5 N  
LONG= 9.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GERMANY

BCIS = REGION NORTHWEST OF BODENSEE SOUTHERN GERMANY.

FEB 1969 FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include FEL, STU, BUH, FUR, and GRF stations.

FEB 01 NO DETERMINATION OF EPICENTER

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF station.

FEB 01 USCGS  
H= 20 03 26.8  
LAT = 7.2 N  
LONG= 34.0 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
CENTRAL MID-ATLANTIC RIDGE

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include FUR and GRF stations.

FEB 02 USCGS  
H= 01 38 44.2  
LAT = 3.9 N  
LONG= 128.2 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.4  
NORTH OF HALMAHERA

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF, FUR, and BNS stations.



FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 02 USCGS  
H= 19 53 53.6  
LAT = 17.2 S  
LONG= 66.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
MASCARENE ISLANDS REGION

FUR	-E Z SL	P	20 06 08.0	1.4	1.23	2	9070 81.6	127.5 326.2
	-E Z SL	PCP	20 06 14.0	1.4	1.62	5		
	+E Z SL	XP	20 06 23.0	1.4	1.62	3		

GRF	E Z BE	P	20 06 12.-				9180 82.5	127.6 327.4
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FEB 03 USCGS  
H= 07 51 25.4  
LAT = 25.8 S  
LONG= 178.1 E  
DEPTH=629 KM  
MAGNITUDE= 5.3  
SOUTH OF FIJI ISLANDS

BNS	E Z FS	-	08 12 42.5	2.0	2.11	3	17120 153.9	18.8 346.9
	E Z FS	-	08 12 52.5					
	E FS	-	08 14 09.-					

FUR	-E Z SL	PKP2	08 10 41.0	1.5	1.83	5	17280 155.4	29.5 338.5
	+I Z SL	APKP	08 12 57.0	1.8	2.49	3		

FEB 03 USCGS  
H= 08 13 44.2  
LAT = 25.6 S  
LONG= 178.1 E  
DEPTH=610 KM  
MAGNITUDE= 4.9  
SOUTH OF FIJI ISLANDS

GRF	+E Z BE	PKP	08 32 53.8	0.5	1.18	4	17110 153.9	27.8 340.4
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FUR	+E Z SL	PKP2	08 33 00.0	1.6	1.72	4	17260 155.2	29.5 338.6
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FEB 03 USCGS  
H= 08 18 14.7  
LAT = 25.7 S  
LONG= 178.3 E  
DEPTH=654 KM  
MAGNITUDE= 5.3  
SOUTH OF FIJI ISLANDS

BNS	E Z FS	PKP	08 36 54.0				17110 153.9	18.5 347.1
	E Z FS	PKP2	08 37 19.-					

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	+I Z HE	PKP	08 37 03.7	0.6	1.42	5	17130 154.1	27.5 340.6
	+I Z HE	PKP2	08 37 21.6					

FUR	-E Z SL	PKP	08 36 56.0	1.6	1.52	5	17280 155.4	29.2 338.8
	-I Z SL	PKP2	08 37 27.0	1.7	2.15	9		

BUH	-E Z GT	PKP	08 37 28.2	1.0	1.65	5	17330 155.8	22.4 343.8
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FEB 03 USCGS  
H= 08 57 06.8  
LAT = 49.4 N  
LONG= 155.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.4  
KURIL ISLANDS

GRF	-I Z BE	P	09 08 56.7	0.8	2.02	9	8530 76.7	23.0 337.1
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FUR	+I Z SL	P	09 09 04.0	1.5	1.83	5	8680 78.1	22.9 336.5
	+I Z SL	PCP	09 09 13.0	2.0	2.12	2		
	+E Z SL	XPCP	09 09 29.0	1.6	1.67	4		

BUH	+E Z GT	P	09 09 05.-	1.0	1.50	4	8710 78.4	21.1 338.6
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FEB 03 USCGS  
H= 09 45 52.0  
LAT = 19.2 N  
LONG= 121.2 E  
DEPTH= 57 KM  
MAGNITUDE= 4.5  
PHILIPPINE ISLANDS REGION

FUR	+I Z SL	P	09 58 43.0	1.7	1.87	2	9840 88.5	62.8 321.0
	+I Z SL	PCP	09 58 45.0	1.7	2.00	3		

FEB 03 USCGS  
H= 19 01 29.4  
LAT = 4.4 N  
LONG= 128.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
NORTH OF HALMAHERA

FUR	-I Z SL	PP	19 19 53.0	1.0	2.41	4	11580 104.2	66.6 322.0
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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 03 USCGS  
 H= 21 41 41.9  
 LAT = 4.9 N  
 LONG= 127.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.1  
 TALAUD ISLANDS

HAM	E Z SX	P	21 55 32.-			1	11330 101.9	64.6 327.2
	E Z WZ	PP	21 59 51.-			4		
	-E N WI	-	22 06 20.-			5		
	E Z WZ	SP	22 08 40.-			7		
GRF	+E Z BE	P	21 55 37.-	3.0		3	11430 102.8	66.5 323.3
	E Z BE	PP	21 59 52.-					
	-E Z BE	-	22 08 50.-	3.0				
FUR	-E Z SL	P	21 55 41.0	3.0	2.74	9	11490 103.3	66.9 321.8
	-I Z SL	APCP	21 55 47.0	1.6	2.00	3		
	-I Z SL	XP	21 55 55.0	2.4	2.52	3		
	+I Z SL	PP	21 59 56.0	1.5	2.22	2		
	-I Z SL	APP	22 00 07.0	1.4	2.57	1		
	-I Z SL	XPP	22 00 10.0	2.4	3.18	2		
	-I Z SL	PPP	22 02 11.0	1.8	2.40	4		
	-I Z SL	S	22 07 13.0	2.0	2.42	3		
	+E Z SL	XS	22 07 28.0	2.4	2.52	3		
	+I Z SL	SP	22 08 54.0	2.5	2.75	3		
	-I Z SL	PKKP	22 11 22.0	3.0	1.92	9		
	+E Z SL	SS	22 14 51.0	3.0	1.79	2		
TNS	I Z	P	21 55 45.0				11580 104.2	64.1 324.6
STU	+I Z SL	P	21 55 46.1	10.0	3.72	4	11600 104.3	65.0 323.0
	+I N SL	S	22 07 33.3	20.0	4.29	9		
BNS	+I Z FS	P	21 55 46.4	2.5	2.23	3	11630 104.6	62.8 325.6
	E Z FS	PKP	21 59 34.-					
	E Z FS	PP	22 00 00.-					
	I E SL	S	22 07 41.5					
	I Z SL	PS	22 09 10.0					
	E SL	LR	22 32 00.-	60.0				
BUH	+E Z GL	P	21 55 48.5	2.0		4	11670 105.0	64.2 323.2

FEB 04 USCGS  
 H= 01 38 26.2  
 LAT = 0.6 S  
 LONG= 121.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 NORTHERN CELEBES

GRF	-E Z BE	PP	01 56 50.-	4.5		3	11530 103.7	74.5 321.3
FUR	-E Z SL	PP	01 56 41.0	1.4	1.62	5	11570 104.0	74.9 319.7

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	-	01 57 06.0	1.8	2.10	3		
	Z SL	MAXIMUM	02 07 00.0	28.0	3.63			
BNS	E Z FS	PP	01 57 02.-	3.0	2.23	2	11760 105.7	70.9 323.3
	E Z FS	-	02 09 16.-					
	E FS	LR	02 32 00.-	50.0				

FEB 04 USCGS  
 H= 04 10 13.3  
 LAT = 8.2 S  
 LONG= 80.2 W  
 DEPTH= 16 KM  
 MAGNITUDE= 6.0  
 OFF COAST OF NORTHERN PERU

BNS	E Z FS	P	04 23 29.-	1.4	1.90	3	10520 94.6	262.8 39.3
	I Z FS	-	04 23 36.0					
	E FS	LR	04 55 42.-	44.0				
STU	+E Z BE	P	04 23 39.1	1.4	2.22	3	10640 95.7	264.1 41.7
HAM	E Z SX	P	04 23 46.-			1	10740 96.6	265.2 37.0
FUR	+E Z SL	P	04 23 47.0	1.6	1.60	6	10790 97.0	265.6 42.4
	+E Z SL	APCP	04 23 49.0	1.0	2.29	1		
	Z SL	MAXIMUM	04 59 00.0	30.0	3.51			
GRF	-E Z BE	P	04 23 46.-	2.5	2.70	3	10800 97.1	265.7 40.9

FEB 04 USCGS  
 H= 11 28 44.5  
 LAT = 19.8 S  
 LONG= 178.9 W  
 DEPTH= 623 KM  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

BNS	+E Z FS	PKP	11 47 23.0	1.5	1.70	2	16520 148.5	11.0 352.6
	E Z FS	-	11 47 30.0					
FUR	-E Z SL	PKP	11 47 29.0	1.4	1.62	5	16740 150.5	19.7 346.1
	+E Z SL	PKP2	11 47 49.0	1.4	1.76	7		

FEB 05 USCGS  
 H= 09 20 13.0  
 LAT = 34.5 N  
 LONG= 24.7 E  
 DEPTH= 56 KM  
 MAGNITUDE= 4.3  
 CRETE

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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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FEB 05 BCIS  
 H= 09 20 07.0  
 LAT = 34.5 N  
 LONG= 24.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	-E Z SL	P	09 24 09.0	1.0	2.11	4	1880	16.9	138.9 327.8
	-E Z SL	Ab	09 24 17.0	1.6	1.52	5			
	+E Z SL	PP	09 24 22.0	1.0	2.21	5			
	-E Z SL	S	09 27 14.0	3.4	2.85	9			

GRF	+E Z BE	P	09 24 23.-	0.9	1.70	6	2020	18.1	141.9 331.0
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FEB 05  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	P	10 37 06.-	0.8	1.35	2			
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FEB 05  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 46 27.3	0.4	1.30	5			
	E R BE	SG	12 46 46.-						

FEB 05 USCGS  
 H= 23 45 21.4  
 LAT = 0.7 N  
 LONG= 29.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 CENTRAL MID-ATLANTIC RIDGE

BNS	E Z FS	P	23 55 20.7	2.0	1.70	2	6550	58.9	224.4 26.3
	E Z FS	-	23 55 35.5						
	E FS	LR	00 13 00.-						

FUR	+E Z SL	P	23 55 19.0	1.8	2.10	9	6560	59.0	229.9 30.8
	-E Z SL	AP	23 55 27.0	1.8	1.94	4			
	+E Z SL	PCP	23 56 05.0	1.9	2.21	9			

GRF	E Z BE	P	23 55 26.-				6670	59.9	229.1 29.4
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FEB 06 NFB  
 H= 16 05 01.4  
 LAT = 50.6 N  
 LONG= 7.3 E  
 DEPTH= 0 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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NFB = QUARRYBLAST AT MEHRBERG (LINZ/RHEIN), SHOTPOINT NO. 14<sup>8</sup>  
 H= 16 05 01.38, 50 DEG 36 MIN 32 SEC N, 7 DEG 17 MIN 50 SEC E  
 HEIGHT= 400 METERS, CHARGE= 3900 KILO.

BNS	+I Z X	PG	16 05 09.0			2	40	0.4	167.5 347.6
	E N X	SG	16 05 15.1	0.6	2.50				
	I X	SG	16 05 15.3	0.6	2.25				

TNS	E	P	16 05 17.7				90	0.8	298.4 117.5
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FEB 06  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 23 25.0	2.0	2.05	6			
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FEB 07 USCGS  
 H= 01 03 06.5  
 LAT = 32.6 N  
 LONG= 48.1 E  
 DEPTH= 51 KM  
 MAGNITUDE= 4.7  
 WESTERN IRAN

FUR	-E Z SL	AP	01 09 29.0	1.4	1.52	4	3530	31.7	105.9 310.3
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FEB 07 USCGS  
 H= 03 04 37.2  
 LAT = 20.1 S  
 LONG= 168.5 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 LOYALTY ISLANDS

FUR	+E Z SL	APKP	03 24 29.0	2.0	2.18	8	16290	146.5	41.2 332.0
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FEB 07 USCGS  
 H= 03 42 43.4  
 LAT = 25.1 S  
 LONG= 175.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 SOUTH OF TONGA ISLANDS

FUR	-E Z SL	PKP	04 02 37.0	1.6	1.52	5	17390	156.4	14.8 349.1
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FEB 07  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 47 41.2	0.4	1.08	2			
	E R BE	SG	12 47 59.3						



FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 08  
NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PG	12 38 45.6	0.5	1.04	2		
	E R BE	SG	12 39 04.-					

FEB 08 USCGS

H= 23 23 34.9  
LAT = 29.9 N  
LONG= 51.0 E  
DEPTH= 52 KM  
MAGNITUDE= 5.1  
SOUTHERN IRAN

FUR	+I Z SL	P	23 30 26.0	1.4	1.92	5	3930 35.3	106.5 312.4
	+E Z SL	-	23 30 33.0	1.8	1.80	3		
	-E Z SL	-	23 30 37.0	2.6	2.20	4		
GRF	+I Z BE	P	23 30 31.2	0.8	1.52	4	3980 35.8	108.5 314.8

FEB 09 USCGS

H= 15 34 44.4  
LAT = 21.6 N  
LONG= 101.3 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
BURMA-CHINA BORDER REGION

FUR	+E Z SL	P	15 46 24.0	1.4	1.62	3	8250 74.2	75.2 315.9
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FEB 09 USCGS

H= 18 29 04.0  
LAT = 5.5 N  
LONG= 0.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
NORTHWEST AFRICA

FUR	+E Z SL	P	18 37 07.0	1.0	2.11	4	4840 43.6	196.6 11.1
GRF	+E Z BE	P	18 37 18.6				5010 45.0	196.1 10.4

FEB 09 USCGS

H= 23 08 27.7  
LAT = 47.7 N  
LONG= 18.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
HUNGARY

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 09 BCIS  
H= 23 08 26.0  
LAT = 47.3 N  
LONG= 18.2 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
HUNGARY

FUR	-E Z SL	PN	23 09 37.0	1.0	1.50	1	520 4.6	93.7 278.7
	+E Z SL	PR	23 09 51.0	1.0	2.11	4		
	+E Z SL	PG	23 10 09.0	1.6	1.60	3		
	-E Z SL	SN	23 10 33.0	1.4	1.76	4		
	-E Z SL	SH	23 10 50.0	1.2	2.08	6		
	+I Z SL	SG	23 11 03.0	1.0	2.29	6		
	Z SL	MAXIMUM	23 12 00.0	1.6	2.12			

GRF	+E Z BE	PN	23 09 42.4				560 5.0	111.2 296.4
	E Z HE	SG	23 11 08.2					

STU	-E Z BE	PN	23 09 55.8	1.0	1.67	3	680 6.1	97.1 283.8
	+E N BE	SN	23 11 01.0	0.5	1.64	9		

HEI	-E Z ST	PN	23 10 02.3	0.6	1.76	5	720 6.5	101.9 289.0
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BUH	E Z GT	PN	23 10 07.-			2	750 6.7	95.0 282.3
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TNS	E	P	23 10 09.0				770 6.9	108.1 295.4
	E	S	23 12 07.5					

BNS	E Z X	-	23 11 46.5				880 7.9	110.5 298.8
	E N X	-	23 12 40.-					
	E X	SG	23 12 46.5	1.3	2.28			

FEB 10 USCGS

H= 21 47 55.9  
LAT = 44.2 N  
LONG= 148.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.1  
KURIL ISLANDS

FUR	-E Z SL	P	22 00 07.0	1.0	2.29	6	8970 80.6	29.6 332.6
	-E Z SL	PCP	22 00 12.0	1.8	1.80	3		

FEB 10 USCGS

H= 22 58 05.8  
LAT = 22.7 S  
LONG= 178.6 W  
DEPTH= 673 KM (GEOPHYSICIST)  
MAGNITUDE= 6.0  
SOUTH OF FIJI ISLANDS

HLG	E Z X	PKP	23 16 35.-	1.0	2.63	2	16440 147.8	16.2 349.8
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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
+I E X	PKP		23 16 39.7	1.2	3.45	7		
+I N X	PKP		23 16 39.9	1.0	2.47	9		
+I Z X	PKP		23 16 39.7	1.2	3.74	9		
E Z X	APKP		23 19 14.-	1.0	2.79	2		
E N X	SKKS		23 26 00.-	2.0	2.94	2		
+I E X	SKKS		23 26 01.7	2.0	2.98	2		
-I Z X	-		23 26 57.5	2.0	2.90	2		
E N X	PPS		23 33 05.-	1.4	2.77	2		
E E X	PPS		23 33 05.-	2.0	3.16	2		
HAM	-I Z SX	PKP	23 16 35.6			5	16470 148.1	20.1 347.2
	E Z WZ	PPP	23 23 43.7			4		
	E E WI	-	23 25 39.-			4		
BNS	-I Z FS	PKP	23 16 40.0				16790 151.0	16.5 348.8
	I Z FS	-	23 16 46.3	2.0	3.30			
	E FS	SKP	23 19 07.-					
	E Z SL	PP	23 20 15.-					
	E Z SL	-	23 23 50.-					
	E SL	LR	23 48 20.-	50.0				
GRF	-E Z BE	PKP	23 16 40.4				16820 151.3	24.8 342.8
	I Z BE	-	23 16 48.4					
	I Z BE	-	23 16 59.4					
	E Z BE	-	23 17 22.8					
TNS	I	PKP	23 16 39.0				16840 151.5	19.3 346.7
HEI	-E Z ST	PKP	23 16 40.8	3.0	3.20	9	16920 152.2	20.3 345.8
KRL	+E Z ST	PKP	23 16 42.-	1.0	2.49	3	16970 152.6	20.0 345.9
FUR	+I Z SL	PKP	23 16 41.0	2.0	3.05	9	16980 152.7	26.2 341.4
	+I Z SL	PKP2	23 17 05.0	2.0	3.36	5		
	-I Z SL	SKP	23 19 10.0	1.5	2.43	4		
	-I Z SL	APKP	23 19 22.0	1.8	2.67	4		
	+I Z SL	APKP	23 19 32.0	2.0	2.75	2		
	-I Z SL	PKS	23 20 13.0	2.0	2.88	3		
	+I Z SL	PP	23 20 36.0	1.5	2.48	4		
	+I Z SL	XPKP	23 20 44.0	2.0	2.88	3		
	-I Z SL	APP	23 23 05.0	1.5	2.00	9		
	+I Z SL	XPP	23 24 10.0	1.7	2.26	9		
	+E Z SL	PPP	23 24 17.0	2.0	2.47	3		
	-I Z SL	PCPPKP	23 24 52.0	2.0	2.57	2		
STU	-E Z BE	PKP	23 16 41.4	0.9	3.44	9	16980 152.7	21.7 344.7
BUH	-E Z GT	PKP	23 16 41.8	1.0	1.77	3	17010 153.0	19.8 345.9
HAV	-E Z ST	PKP	23 16 43.5	2.5	3.42	9	17070 153.5	23.2 343.3

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FEB 10	USCGS							
H=	23 02 57.5							
LAT =	23.1 S							
LONG=	178.8 E							
DEPTH=	670 KM							
MAGNITUDE=	5.8							
SOUTH OF FIJI ISLANDS								
HMG	E Z X	PKP	23 21 30.-	2.0	3.06	2	16490 148.3	16.0 349.8
TNS	I	PKP	23 19 14.0				16890 151.9	19.2 346.8
FUR	-I Z SL	PKP	23 21 30.0	1.5	2.45	5	17030 153.1	26.1 341.3
	-I Z SL	PKP2	23 22 00.0	1.5	2.43	4		
	Z SL	MAXIMUM	00 16 00.0	19.0	3.79			
FEB 11								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	00 03 01.0	1.8	2.10	9		
FEB 11								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	P	04 14 17.0	1.2	1.90	4		
	Z SL	MAXIMUM	04 16 00.0	1.6	1.83			
FEB 11								
USCGS								
H=	22 08 54.7							
LAT =	41.4 N							
LONG=	79.2 E							
DEPTH=	33 KM (NORMAL)							
MAGNITUDE=	5.8							
KIRGIZ-SINKIANG BORDER REGION								
HAM	+I Z ZX	P	22 17 22.0			3	5180 46.6	75.7 309.7
	+I Z WZ	AP	22 17 32.-			3		
	E E WI	-	22 27 02.-			6		
GRF	+I Z BE	P	22 17 24.4	1.2			5210 46.9	73.0 304.4
FUR	-I Z SL	P	22 17 27.0	1.8	2.64	9	5260 47.3	71.7 302.4
	+I Z SL	AP	22 17 33.0	1.2	3.04	4		
	-E Z SL	XP	22 17 41.0	1.2	3.14	1		
	-E Z SL	PCP	22 18 58.0	1.5	2.00	2		
	-E Z SL	APCP	22 19 03.0	1.5	2.22	2		
	-I Z SL	XPCP	22 19 07.0	1.5	2.30	3		
	-I Z SL	PP	22 19 19.0	1.5	2.30	3		
	+I Z SL	APP	22 19 27.0	2.0	3.01	4		
	-I Z SL	PPP	22 20 09.0	1.7	2.10	2		
	+I Z SL	-	22 20 26.0	2.5	2.96	1		
	-I Z SL	-	22 20 39.0	2.1	2.52	2		
	Z SL	MAXIMUM	22 39 10.0	8.0	4.26			





FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
HLG	+I Z X	P	22	17	35.6	1.2	3.02	4	5290	47.6	74.9	311.1
	-I E X	P	22	17	35.4	1.0	2.90	2				
	+I Z X	PP	22	19	40.7	2.2	3.23	3				
TNS	I	P	22	17	35.0				5380	48.4	71.9	305.8
STU	+I Z BE	P	22	17	35.6	0.9	3.48	9	5380	48.4	71.1	303.8
HEI	+E Z ST	P	22	17	36.3	1.0	2.72	6	5390	48.5	71.3	304.7
KRL	+E Z ST	P	22	17	39.5	1.0	2.31	3	5430	48.8	70.8	304.3
BNS	-I Z FS	P	22	17	39.5				5440	49.0	71.7	307.1
	I Z FS	-	22	17	44.9	2.0	2.72					
	E FS	PP	22	19	40.-							
	E Z SL	S	22	24	40.-							
	E Z SL	-	22	28	22.-	22.0						
BUH	E SL	LR	22	31	45.-	58.0						
	+E Z GT	P	22	17	40.5	1.0	1.87	5	5450	49.0	70.5	303.9

FEB 11 USCGS  
 H= 22 16 13.5  
 LAT = 6.7 S  
 LONG= 126.8 E  
 DEPTH=450 KM (GEOPHYSICIST)  
 MAGNITUDE= 6.0  
 BANDA SEA

GRF	E Z BE	PP	22	34	53.5				12400	111.5	74.3	321.0
HLG	E E X	-	22	33	10.-	5.0	3.59	1	12470	112.1	69.7	326.3
	E Z X	-	22	33	18.-	4.2	3.59	2				
	E N X	-	22	33	20.-	5.0	3.70	1				
	E E X	-	22	38	14.-	10.0	4.70	2				
	E Z X	-	22	38	24.-	10.0	4.85	3				
BNS	E N X	-	22	38	32.-	10.0	4.81	2				
	E Z FS	PKP	22	34	07.-				12630	113.6	70.4	323.1
	E Z FS	-	22	35	06.-							
	E FS	-	22	39	24.-							
	I Z SL	-	22	43	53.-							
E Z SL	LR		23	04	00.-	40.0						
	SL	MAXIMUM	23	24	00.-	19.0						

FEB 11  
 NO DETERMINATION OF EPICENTER

GRF -I Z BE - 22 52 32.3

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FEB 12 USCGS H= 00 22 37.4 LAT = 41.3 N LONG= 79.3 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.9 KIRGIZ-SINKIANG BORDER REGION												
GRF	-E Z HE	P	00	31	07.-				5220	47.0	73.0	304.5
FUR	-E Z SL	P	00	31	13.0	1.4	1.52	2	5270	47.4	71.7	302.5
	+E Z SL	-	00	31	17.0	1.4	1.40	1				
	-E Z SL	AP	00	31	19.0	1.4	1.40	1				

FEB 12  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PN	13	59	13.-							
	-I Z HE	PG	13	59	15.5	0.4	0.97	3				
	E R HE	SG	13	59	36.4	0.4	1.06	2				

FEB 12 USCGS  
 H= 15 39 54.6  
 LAT = 55.9 N  
 LONG= 162.9 E  
 DEPTH= 44 KM  
 MAGNITUDE= 5.1  
 NEAR EAST COAST OF KAMCHATKA

GRF	+E Z HE	P	15	51	17.7	0.8	1.25	2	8030	72.2	16.3	341.1
FUR	+I Z SL	P	15	51	16.0	1.8	1.94	4	8190	73.7	16.2	340.6
	-I Z SL	-	15	51	47.0	1.8	1.80	5				
	-I Z SL	-	15	52	05.0	1.8	1.70	2				

FEB 12  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	16	08	41.0	1.7	1.62	5				
	-E Z SL	-	16	09	09.0	1.8	1.80	3				
	+E Z SL	-	16	09	14.0	1.8	1.87	6				

FEB 13 USCGS  
 H= 01 35 52.4  
 LAT = 52.2 N  
 LONG= 169.9 W  
 DEPTH= 16 KM  
 MAGNITUDE= 5.1  
 FOX ISLANDS, ALEUTIAN ISLANDS

GRF	+I Z HE	P	01	47	55.3	0.6	1.20	4	8730	78.5	0.7	359.3
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FEB 1969

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FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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E Z HE S 01 58 15.-

FEB 13  
NO DETERMINATION OF EPICENTER

GRF	E Z HE	PN	07 33 39.6	0.4	1.11	4				
	E Z BE	PG	07 33 41.9	0.4	0.97	3				
	E R BE	SG	07 34 09.7	0.6	1.24	2				

FEB 13 USCGS  
H= 10 02 57.9  
LAT = 30.1 S  
LONG= 178.0 W  
DEPTH= 23 KM  
MAGNITUDE= 4.9  
KERMADEC ISLANDS

GRF	E Z BE	PKP	10 23 33.-				17710	159.3	23.1	342.9
FUR	-E Z SL	PKP2	10 23 39.0	1.6	1.52	1	17860	160.6	24.9	341.0
	-E Z SL	APKP	10 23 49.0	1.6	1.52	2				
	-E Z SL	-	10 24 21.0	3.0	2.59	2				

FEB 13  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	10 33 12.4	0.8	1.17	1				
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FEB 13  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	-	11 09 43.5							
	E Z FS	-	11 09 48.5							

FEB 13 USCGS  
H= 11 11 25.5  
LAT = 25.0 N  
LONG= 62.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
WESTERN PAKISTAN

FUR	-E Z SL	P	11 19 50.0	1.6	1.52	1	5160	46.4	100.9	313.6
	-E Z SL	XP	11 20 04.0	1.8	1.88	2				
	-E Z SL	PCP	11 21 14.0	1.5	1.52	3				
	-E Z SL	APP	11 21 49.0	1.6	1.67	4				
	-E Z SL	XPP	11 21 52.0	1.6	1.60	3				
GRF	+E Z HE	P	11 19 54.0	1.0	1.48	3	5200	46.8	102.3	315.6

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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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FEB 13 USCGS  
H= 15 09 33.1  
LAT = 34.7 N  
LONG= 22.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
MEDITERRANEAN SEA

GRF	E Z BE	P	15 13 31.5				1910	17.2	146.5	334.2
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FEB 14  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	02 56 30.-							
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FEB 14 USCGS  
H= 03 04 04.1  
LAT = 16.1 S  
LONG= 173.0 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
TONGA ISLANDS

BNS	+I Z FS	PKP	03 23 40.3	1.8	2.08	3	16150	145.3	0.2	359.8
	E Z FS	-	03 23 45.5							
	E FS	-	03 23 51.5							
GRF	E Z BE	PKP	03 23 44.2	1.6	2.42	5	16270	146.4	7.3	355.1
FUR	-I Z SL	PKP	03 23 49.0	1.5	1.83	5	16440	147.9	7.7	354.7
	-E Z SL	PKP2	03 23 56.0	1.5	1.67	1				
	-I Z SL	-	03 24 15.0	1.3	2.08	8				

FEB 14  
NO DETERMINATION OF EPICENTER

GRF	+E Z HE	PG	12 49 07.5	0.4	0.29	2				
	-I R BE	SG	12 49 26.1	0.5	1.42	7				

FEB 14  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	14 43 41.5							
	E Z BE	PG	14 43 46.6	0.4	1.31	4				
	E R BE	SG	14 44 07.-							

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 15 USCGS  
 H= 06 50 34.1  
 LAT = 20.5 S  
 LONG= 176.0 W  
 DEPTH=160 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	07 10 14.-				16710 150.3	13.7 350.6
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FEB 15  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	08 24 26.0	1.8	2.00	4		
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FEB 15 BCIS  
 H= 08 54 42.0  
 LAT = 43.9 N  
 LONG= 11.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CENTRAL ITALY

BCIS = FELT STRONGLY IN THE UPPER PARTS OF FLORENCE.

FUR	-E Z SL	PN	08 55 44.0	1.6	1.60	6	480 4.3	176.9 357.1
	-E Z SL	PB	08 55 59.0	1.6	1.52	5		
	-E Z SL	PG	08 56 14.0	1.6	1.43	4		
	+E Z SL	SN	08 56 42.0	1.4	1.62	2		
	-I Z SL	SB	08 56 52.0	1.3	1.96	2		
	-I Z SL	SG	08 57 02.0	1.1	2.24	1		
	Z SL	MAXIMUM	08 57 32.0	1.5	2.05			

BUH	E Z GT	PN	08 55 59.5	0.3	0.90	3	590 5.3	152.7 335.1
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GRF	E Z BE	PN	08 56 06.-				650 5.8	177.2 357.5
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FEB 15  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	12 32 17.3					
	E Z BE	PG	12 32 22.2					
	E R BE	SN	12 32 33.2					
	E R BE	SG	12 32 51.-					

FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 15 USCGS  
 H= 13 49 13.6  
 LAT = 13.6 S  
 LONG= 167.2 E  
 DEPTH=205 KM  
 MAGNITUDE= 5.3  
 NEW HEBRIDES ISLANDS

BNS	E Z FS	PKP	14 08 17.5	1.5	1.90	3	15500 139.4	30.7 340.6
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FUR	-E Z SL	PKP	14 08 12.0	1.5	1.43	4	15590 140.2	38.3 334.7
	-I Z SL	-	14 08 18.0	1.8	2.10	9		
	-E Z SL	PP	14 11 19.0	1.4	1.70	6		

FEB 15  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	14 08 11.8	0.8	1.26	1		
	E Z BE	-	14 11 11.0	1.8	2.00	2		

FEB 15 USCGS  
 H= 23 59 10.6  
 LAT = 41.5 N  
 LONG= 79.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 KIRGIZ-SINKIANG BORDER REGION

GRF	-E Z BE	P	00 07 40.7	1.0	2.08	2	5220 47.0	72.8 304.4
	-E Z BE	-	00 07 44.5					
	-I Z BE	AP	00 07 50.3	1.0	1.91	8		
	E Z BE	-	00 07 54.1					

FUR	-E Z SL	P	00 07 43.0	1.6	1.43	4	5270 47.4	71.4 302.4
	-E Z SL	AP	00 07 47.0	1.8	1.70	2		
	+I Z SL	XP	00 07 54.0	1.6	1.67	7		
	-E Z SL	XPCP	00 09 28.0	2.0	2.12	4		
	+E Z SL	XPP	00 09 43.0	1.4	1.70	4		
	-E Z SL	-	00 10 31.0	2.0	2.12	7		

FEB 16  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	16 38 04.8					
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FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 17 USCGS  
 H= 00 42 59.2  
 LAT = 3.8 N  
 LONG= 128.4 E  
 DEPTH= 14 KM  
 MAGNITUDE= 5.6  
 NORTH OF HALMAHERA

GRF	E Z BE	PP	01 01 21.4	1.6	1.93	2	11590 104.3	66.3 323.4
FUR	-E Z SL	PP	01 01 30.0	4.0	3.00	9	11660 104.8	66.7 322.0
	+I Z SL	APP	01 01 37.0	1.5	1.78	5		
	+E Z SL	XPP	01 01 41.0	2.0	1.97	3		
	+I Z SL	-	01 02 36.0	2.8	2.74	9		
	E SL	MAXIMUM	01 51 30.0	20.0	4.14			

BNS	E Z SL	P	00 57 12.-				11790 106.0	62.6 325.8
	E Z SL	PP	01 01 27.-					
	E SL	SP	01 11 07.-					
	E Z SL	LR	01 36 50.-	44.0				
	Z SL	MAXIMUM	01 49 00.-	17.0				

FEB 17 USCGS  
 H= 01 15 55.1  
 LAT = 3.9 N  
 LONG= 128.6 E  
 DEPTH= 88 KM  
 MAGNITUDE= 5.4  
 NORTH OF HALMAHERA

GRF	E Z BE	PP	01 34 03.-				11600 104.3	66.1 323.5
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FEB 17 USCGS  
 H= 06 58 47.9  
 LAT = 46.8 N  
 LONG= 152.5 E  
 DEPTH= 54 KM  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	-I Z BE	P	07 10 44.4	0.6	1.04	3	8700 78.2	26.0 335.5
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FEB 17 USCGS  
 H= 07 29 07.3  
 LAT = 37.5 N  
 LONG= 140.7 E  
 DEPTH= 86 KM  
 MAGNITUDE= 4.8  
 HONSHU, JAPAN

GRF	+E Z BE	P	07 41 44.0	1.0	1.64	5	9160 82.4	38.2 329.6
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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FEB 17 USCGS  
 H= 09 11 43.4  
 LAT = 33.9 N  
 LONG= 25.2 E  
 DEPTH= 13 KM  
 MAGNITUDE= 4.7  
 EASTERN MEDITERRANEAN SEA

FUR	-E Z SL	P	09 15 51.0	1.0	2.11	4	1960 17.6	138.7 327.9
	+E Z SL	PP	09 16 05.0	1.4	1.70	3		
	-E Z SL	XPP	09 16 15.0	1.5	1.67	7		
GRF	E Z BE	P	09 16 04.0	1.2	1.58	2	2090 18.8	141.5 330.9

FEB 17  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	15 11 03.0	0.7	1.02	2		
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FEB 17 BCIS  
 H= 16 19 58.0  
 LAT = 47.7 N  
 LONG= 11.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

BCIS = BAVARIA, REGION OF PEISENBERG.  
 FUR = 47 DEG 50 MIN N, 11 DEG 06 MIN E

FUR	-E Z SL	PG	16 20 04.0	1.0	2.21	5	50 0.5	204.2 24.0
	-E Z SL	PR	16 20 06.0	1.0	2.51	2		
	+I Z SL	SG	16 20 13.0	1.0	2.29	6		
	+E Z SL	SR	16 20 16.0	2.0	2.05	3		
	-E Z SL	SN	16 20 20.0	1.6	1.67	7		
	Z SL	MAXIMUM	16 20 50.0	1.2	3.00			

GRF	E Z BE	PN	16 20 28.2				220 1.9	184.3 4.1
	E Z HE	PG	16 20 34.7	0.4	0.64	1		
	E R HE	SG	16 20 58.4					

FEB 18 USCGS  
 H= 05 14 55.9  
 LAT = 24.0 S  
 LONG= 176.7 W  
 DEPTH= 99 KM  
 MAGNITUDE= 5.4  
 SOUTH OF FIJI ISLANDS

GRF	E Z BE	PKP	05 34 52.4				17080 153.6	16.5 348.4
FUR	-E Z SL	PKP	05 34 48.0	1.0	2.21	3	17250 155.1	17.5 347.3

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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-E Z SL	PKP2		05 35 08.0	1.4	1.62	5			
-E Z SL	APKP		05 35 38.0	1.6	1.52	3			

 FEB 18  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 48 31.6	0.6	1.02	2			
	E R BE	SG	12 48 50.7						

 FEB 18  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	13 05 53.7						
	-E Z BE	PG	13 05 55.7	0.4	0.98	2			
	-E R BE	SG	13 06 20.0						

 FEB 18 USCGS  
 H= 20 43 13.6  
 LAT = 17.9 S  
 LONG= 178.6 W  
 DEPTH=569 KM  
 MAGNITUDE= 5.2  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	21 01 55.1				16380	147.3	17.5 348.2
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 FEB 19  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	-	00 48 13.-						
	E N X	-	00 48 23.-						
	E X	-	00 48 39.5						

 FEB 20 USCGS  
 H= 02 59 14.0  
 LAT = 20.1 S  
 LONG= 173.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 TONGA ISLANDS

GRF	E Z BE	PKP	03 19 08.-				16700	150.2	9.7 353.3
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FEB 1969

65

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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 FEB 20 USCGS  
 H= 09 55 33.8  
 LAT = 3.5 N  
 LONG= 128.2 E  
 DEPTH= 33 KM  
 MAGNITUDE= 5.7  
 NORTH OF HALMAHERA

FUR	-E Z SL	PP	10 14 03.0	1.6	1.97	2	11660	104.9	67.1 321.9
	Z SL	MAXIMUM	11 05 30.0	20.0	3.94				

BNS	E Z SL	PP	10 14 14.-				11800	106.1	62.9 325.7
	E Z SL	-	10 23 40.-						
	SL	MAXIMUM	11 06 00.-	24.0					

 FEB 20 USCGS  
 H= 10 30 22.1  
 LAT = 3.5 N  
 LONG= 128.4 E  
 DEPTH= 77 KM  
 MAGNITUDE= 6.0  
 NORTH OF HALMAHERA

FUR	-E Z SL	P	10 44 23.0	1.6	1.67	7	11690	105.1	66.9 321.9
	-I Z SL	AP	10 44 43.0	2.0	2.28	5			
	-E Z SL	XP	10 44 51.0	2.8	3.60	1			
	-I Z SL	PP	10 48 49.0	1.2	2.48	4			
	-I Z SL	APP	10 49 12.0	2.5	2.57	3			
	+I Z SL	XPP	10 49 21.0	1.6	1.97	9			

BNS	E Z FS	PKP	10 48 51.-				11820	106.3	62.7 325.7
	E Z FS	LR	11 31 00.-						
	FS	MAXIMUM	11 45 00.-	18.0					

 FEB 20 USCGS  
 H= 13 02 04.1  
 LAT = 19.8 S  
 LONG= 177.7 W  
 DEPTH=579 KM  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

FUR	-E Z SL	PKP	13 21 04.0	1.5	1.83	9	16770	150.8	17.5 347.7
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 FEB 20 USCGS  
 H= 16 58 13.8  
 LAT = 3.7 N  
 LONG= 128.2 E  
 DEPTH= 48 KM  
 MAGNITUDE= 5.3  
 NORTH OF HALMAHERA

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	E Z BE	PP	17	16	42.-				11590	104.2	66.6	323.3
FUR	+I Z SL	PP	17	16	46.0	1.8	1.10	3	11650	104.8	67.0	321.9
BNS	E Z SL	-	17	26	16.-				11790	106.0	62.9	325.7
	E Z SL	LR	17	49	40.-	60.0						
	SL	MAXIMUM	18	04	30.-	20.0						

FEB 20

NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	23	52	15.0	1.6	1.52	5				
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FEB 21 USCGS

H= 18 39 56.6  
 LAT = 39.2 N  
 LONG= 22.0 E  
 DEPTH= 41 KM  
 MAGNITUDE= 4.6  
 GREECE

FEB 21 BCIS

H= 18 39 57.0  
 LAT = 39.1 N  
 LONG= 21.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

BCIS = REGION OF THE COFFER-DAM OF CREMASTA.

FUR	-E Z SL	XPP	18	43	05.0	1.0	2.21	5	1310	11.8	135.0	322.4
	-E Z SL	-	18	43	09.0	1.4	1.76	7				
STU	+E Z BE	P	18	43	03.1	0.7	1.78	3	1470	13.2	131.2	320.1

FEB 21 USCGS

H= 20 46 27.1  
 LAT = 16.1 S  
 LONG= 173.0 W  
 DEPTH= 38 KM  
 MAGNITUDE= 5.4  
 TONGA ISLANDS

BNS	I Z FS	PKP	21	06	02.5	1.8	2.25		16150	145.3	0.4	359.8
	E Z FS	-	21	06	31.8							
GRF	+E Z BE	PKP	21	06	06.9	1.4	2.40	9	16270	146.4	7.4	355.0
BUH	-E Z GT	PKP	21	06	09.5			3	16410	147.5	2.3	358.4
FUR	+I Z SL	PKP	21	06	11.0	1.4	1.96	2	16440	147.9	7.8	354.6
	+E Z SL	PKP2	21	06	17.0	1.0	2.21	5				

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	+E Z SL	APKP	21	06	22.0	1.4	1.76	7				
	-E Z SL	XPKP	21	06	26.0	1.2	2.08	2				
	-E Z SL	XPKP	21	06	32.0	1.2	2.00	2				
	+I Z SL	-	21	06	41.0	1.7	1.83	2				

FEB 22 BCIS

H= 01 12 02.8  
 LAT = 48.7 N  
 LONG= 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

 BCIS = SOUTHERN GERMANY, REGION OF STUTTGART, FORESHOCK OF THE EVENT AT  
 FEB 22, 23 15.

STU	+I Z BE	PG	01	12	04.0	0.2	2.38	6	10	0.1	257.7	77.6
	+I N BE	SG	01	12	05.2	0.5	2.62	9				

FEB 22

NO DETERMINATION OF EPICENTER

BNS	E N X	-	03	22	03.-							
	E Z X	-	03	22	05.-							
	E X	-	03	22	14.5							

FEB 22

NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	12	44	09.7	0.4	1.11	4				
	E R BE	SG	12	44	28.-							

FEB 22 USCGS

H= 18 11 01.2  
 LAT = 24.8 S  
 LONG= 177.0 W  
 DEPTH= 138 KM  
 MAGNITUDE= 5.0  
 SOUTH OF FIJI ISLANDS

GRF	-E Z BE	PKP	18	31	00.0	1.0	1.46	3	17160	154.3	17.4	347.6
	E Z BE	-	18	31	37.0	1.0		3				
FUR	+E Z SL	PKP	18	30	40.0	1.7	1.52	4	17320	155.8	18.6	346.4
	+E Z SL	-	18	30	50.0	1.7	1.70	6				
	+E Z SL	PKP2	18	31	06.0	1.6	1.52	3				



FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

FEB 22 BCIS  
 H= 23 15 25.2  
 LAT = 48.7 N  
 LONG= 9.1 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN PART OF THE TOWN OF STUTTGART, FELT AT STUTTGART AND BOEB-  
 LINGEN.  
 H= 23 15 25.2, 48 DEG 45 MIN N, 9 DEG 4 MIN E  
 DEPTH= 2 KM, ML= 2.7, I= IV

STATION	COMP.	PHASE	TIME	PER.	LOG. AMP.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S				KM DEG.	STAT. EPIC.
STU	+I Z BE	Pg	23 15 26.4	0.2	3.51	9	10 0.1	257.7 77.6
	I N BE	SG	23 15 27.6					
KRL	+E Z ST	Pg	23 15 45.8				60 0.5	121.6 302.0
BUH	+I Z GT	Pg	23 15 36.0	0.2	0.90	6	60 0.5	81.9 262.5
	-I N GT	SG	23 15 43.6					
HEI	-E Z ST	Pg	23 15 39.2	0.5	1.57	5	80 0.7	161.7 342.0
GRF	E Z BE	-	23 15 56.2				190 1.7	237.2 55.6
	E R BE	-	23 16 17.8					

FEB 23 USCGS  
 H= 00 36 56.6  
 LAT = 3.1 S  
 LONG= 118.9 E  
 DEPTH= 13 KM  
 MAGNITUDE= 6.1  
 CELEBES

USCGS= 64 KILLED, 97 INJURED AND 1287 STRUCTURES DAMAGED AT MADJENE AND ENVIRONS, GROUND CRACKS 50 METERS LONG NOTED AT PALETOANG AND 1.5 METERS AT PARASANGA AND PALILI. LOCAL TSUNAMI GENERATED WAVE WITH 4 METER HEIGHT.

STATION	COMP.	PHASE	TIME	PER.	LOG. AMP.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S				KM DEG.	STAT. EPIC.
GRF	+E Z SL	P	00 51 03.-	10.0			11540 103.8	78.4 320.4
	+I Z SL	PKP	00 54 50.0	13.0				
	+I Z SL	PP	00 55 23.-	10.0				
	-E Z BE	PP	00 55 26.0	2.8	2.84	4		
	+E Z SL	PS	01 04 35.-					
FUR	-E Z SL	-	00 54 55.0	3.0	2.65	4	11570 104.0	78.8 318.9
	+I Z SL	PP	00 55 24.0	4.0	3.78	9		
	-I Z SL	APP	00 55 35.0	3.0	3.05	1		
	-I Z SL	XPP	00 55 42.0	3.0	3.00	3		
	-I Z SL	PPP	00 57 36.0	2.8	2.87	3		
	-E Z SL	-	00 57 55.0	2.0	1.45	3		
	Z SL	MAXIMUM	01 46 30.0	20.0	4.72			
HLG	+I Z X	PP	00 55 29.9	2.0	2.87	2	11640 104.7	74.6 325.4
	E E X	PP	00 55 33.-	2.0	2.71	1		

FEB 1969

FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

STATION	COMP.	PHASE	TIME	PER.	LOG. AMP.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S				KM DEG.	STAT. EPIC.
STU	+E Z SL	P	00 51 04.0	14.0	3.18	5	11700 105.2	77.0 319.8
	+E Z SL	PP	00 55 32.5	10.0	4.21	9		
	+E N SL	S	01 03 00.0	22.0	4.00	9		
TNS	I	PP	00 54 42.0				11720 105.4	76.1 321.4
KRL	-E Z ST	PKP	00 55 09.-			2	11750 105.7	76.4 320.1
BUH	-E Z GT	PKP	00 55 35.-	2.5	2.96	4	11770 105.9	76.3 319.8
BNS	+E Z FS	P	00 51 10.-				11780 106.0	74.8 322.3
	E Z FS	PKP	00 54 43.5					
	E FS	PP	00 55 36.-	3.0	3.08			
	E Z SL	PPP	00 57 50.-					
	E Z SL	PS	01 04 39.-					
	E SL	PPS	01 05 56.-					
	E Z SL	PPS	01 05 56.-					
	E Z SL	SSS	01 16 30.-					
	E SL	LR	01 38 50.-	65.0				

FEB 23  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	18 43 36.0	1.4	1.52	5		
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FEB 24 USCGS  
 H= 00 08 45.6  
 LAT = 6.2 S  
 LONG= 131.0 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.8  
 TANIMBAR ISLANDS REGION

GRF	E Z BE	PKP	00 27 48.-				12640 113.7	70.4 322.0
FUR	-I Z SL	-	00 27 55.0	1.5	1.67	1	12700 114.2	71.1 320.4
	-E Z SL	PP	00 28 25.0	2.3	2.53	2		
	-E Z SL	-	00 29 15.0	1.4	1.70	3		

FEB 24  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	Pg	09 15 56.1	0.4	0.03	1		
	E R BE	SG	09 16 43.2					

FEB 24  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	-	12 17 52.-					
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FEB 24  
 NO DETERMINATION OF EPICENTER



FEB 1969 FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

GRF E Z BE - 14 52 02.-

FEB 25 USCGS  
H= 01 30 08.0  
LAT = 14.3 N  
LONG= 56.3 E  
DEPTH= 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
ARABIAN SEA

FUR -E Z SL AP 01 39 09.0 1.6 1.52 5 5570 50.1 116.6 321.9  
-E Z SL XP 01 39 11.0 1.2 1.78 2

FEB 25 USCGS  
H= 03 51 45.6  
LAT = 32.4 S  
LONG= 180.0 E  
DEPTH=325 KM  
MAGNITUDE= 5.1  
SOUTH OF KERMADEC ISLANDS

GRF -E Z BE PKP 04 11 51.4 1.2 1.54 1 17880 160.8 30.1 337.4

FUR -E Z SL PKP2 04 11 55.0 1.8 1.70 4 18020 162.1 32.6 334.8  
-E Z SL - 04 11 57.0 1.6 1.43 2

FEB 25 USCGS  
H= 07 39 00.6  
LAT = 15.2 N  
LONG= 87.5 W  
DEPTH= 15 KM (GEOPHYSICIST)  
MAGNITUDE= 5.4  
HONDURAS

BNS I Z FS P 07 51 17.8 1.4 1.78 2 9030 81.2 283.2 39.6

BUH E Z GT P 07 51 25.- 1.5 1.74 3 9160 82.4 284.3 41.7

GRF +E Z BE P 07 51 32.2 1.2 1.80 2 9340 84.0 286.4 40.2

FUR -E Z SL P 07 51 34.0 1.3 1.66 1 9400 84.5 286.6 41.7  
-E Z SL PCP 07 51 40.0 1.8 1.80 3

FEB 25 USCGS  
H= 10 35 26.3  
LAT = 25.8 S  
LONG= 176.3 W  
DEPTH= 55 KM (GEOPHYSICIST)  
MAGNITUDE= 5.0  
SOUTH OF FIJI ISLANDS

FEB 1969 FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

FUR +E Z SL XPKP 10 56 01.0 1.5 1.52 5 17440 156.9 17.6 347.1

FEB 25  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 13 42 38.0 1.7 1.62 5

FEB 25, USCGS  
H= 13 43 51.1  
LAT = 41.6 N  
LONG= 32.3 E  
DEPTH= 31 KM  
MAGNITUDE= 4.3  
TURKEY

FUR +E Z SL AP 13 47 43.0 1.6 1.52 5 1810 16.3 106.0 300.9  
-E Z SL PP 13 47 50.0 1.6 1.43 2

GRF E Z BE P 13 47 47.4 1870 16.8 110.8 306.0

FEB 25  
NO DETERMINATION OF EPICENTER

GRF -E Z BE PG 13 44 46.5 0.4 0.78 2  
-I R BE SG 13 45 06.7 0.4 1.29 6

BNS E Z FS - 13 44 56.3  
E Z FS - 13 45 21.3  
E FS - 13 45 50.-

FEB 25 USCGS  
H= 14 05 59.8  
LAT = 19.3 S  
LONG= 12.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
SOUTH ATLANTIC RIDGE

FUR -E Z SL P 14 17 11.0 1.5 1.52 5 7820 70.3 203.5 16.4  
-I Z SL - 14 17 15.0 1.7 1.96 2  
-I Z SL AP 14 17 20.0 1.8 2.10 2  
+I Z SL XP 14 17 24.0 1.8 2.10 2  
+E Z SL XPCP 14 17 48.0 2.0 2.12 7  
+I Z SL - 14 18 24.0 1.4 1.82 8

GRF E Z BE P 14 17 20.0 7970 71.7 203.2 15.7

BNS E Z FS P 14 17 23.0 2.5 2.00 2 8000 71.9 199.2 12.7

FEB 25  
NO DETERMINATION OF EPICENTER



FEB 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPTIC.

GRF E Z BE PG 14 35 47.4  
 -I Z BE SG 14 36 05.1 0.4 0.89 2

FEB 25 USCGS  
 H= 14 42 30.4  
 LAT = 15.0 S  
 LONG= 167.4 E  
 DEPTH=132 KM  
 MAGNITUDE= 5.0  
 NEW HEBRIDES ISLANDS

FUR -E Z SL PKP 15 01 43.0 1.0 1.99 3 15740 141.5 39.0 334.2  
 -E Z SL - 15 01 46.0 1.4 1.70 6  
 -E Z SL APKP 15 02 20.0 1.0 1.99 3  
 -E Z SL XPKP 15 02 36.0 1.5 1.30 3

FEB 25 BCIS  
 H= 14 59 53.5  
 LAT = 47.3 N  
 LONG= 15.4 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 AUSTRIA

BCIS = FELT AT MIXNITZ (STYRIA). I=IV

GRF E Z BE PG 15 00 50.4 410 3.7 129.1 312.2  
 E R BE SG 15 01 46.-

FEB 25  
 NO DETERMINATION OF EPICENTER

GRF E Z BE PG 15 12 19.6  
 E R BE SG 15 12 34.-

FEB 25  
 NO DETERMINATION OF EPICENTER

BNS E Z FS P 16 36 24.-  
 E Z FS - 16 36 43.-

FEB 25  
 NO DETERMINATION OF EPICENTER

FUR -I Z SL P 18 07 15.0 1.5 1.83 9

FEB 25  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 18 44 04.0 1.0 2.29 6

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPTIC.

FEB 26 USCGS  
 H= 01 28 01.3  
 LAT = 48.4 N  
 LONG= 9.1 E  
 DEPTH= 27 KM  
 MAGNITUDE= 4.4  
 GERMANY

FEB 26 BCIS  
 H= 01 28 01.0  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 8 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

USCGS= SLIGHT DAMAGE IN STUTTGART, FELT IN THE STATES OF BADEN-WUERTTEMBERG AND BAVARIA, THE DEPARTMENT OF BAS-RHIN, FRANCE, AND THE CANTON OF ZURICH, SWITZERLAND.  
 STU = EPICENTRAL AREA BETWEEN ONSTMETTINGEN AND TAILFINGEN (KRS. BALINGEN) IN THE WESTERN SWABIAN JURA. PROPERLY DAMAGED AT BOTH PLACES.  
 H= 01 28 01.4, 48 DEG 17.5 MIN N, 9 DEG 0.5 MIN E  
 DEPTH= 3 KM, ML= 4.8, I= VII  
 ALL AFTERSHOCKS TO THIS EVENT ARE SITUATED SOME KM NORTH, NORTH-EAST OR NORTHWEST OF THE EPTICENTER OF THE PRINCIPAL SHOCK.

MSS +I Z ST PG 01 28 04.4 20 0.2 19.3 199.4  
 STU +I Z HE PG 01 28 11.2 50 0.4 192.2 12.1  
 BUH -I Z GT PG 01 28 14.2 0.5 9 70 0.6 119.8 300.4  
 KAV -I Z ST PG 01 28 14.3 80 0.7 327.2 146.8  
 KRL -I Z ST PG 01 28 14.4 9 90 0.8 146.6 327.1  
 FEL +I Z ST PG 01 28 17.1 90 0.8 55.0 235.8  
 HEI +I Z ST PG 01 28 23.7 120 1.1 168.0 348.2  
 FUR -I Z SL PN 01 28 29.0 1.0 3.18 9 170 1.5 278.2 96.5  
 -I Z SL PH 01 28 31.0 1.5 3.43 9  
 -I Z SL SN 01 28 50.0 1.5 3.30 4  
 Z SL MAXIMUM 01 30 00.0 1.5 3.56  
 TNS E P 01 28 35.2 210 1.9 167.7 348.2  
 GRF +I Z HE PN 01 28 34.3 0.6 2.09 9 220 2.0 227.5 45.9  
 HOF E S WI PG 01 28 52.0 300 2.7 224.3 42.2  
 E / WI PN 01 28 46.0  
 E / WI SN 01 29 13.0  
 / WI MAXIMUM 01 29 33.0 3.5 4.23  
 BNS -E Z X PN 01 28 49.3 2 320 2.9 154.2 335.6  
 -I Z X - 01 28 50.2 1.2 2.59



FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-I	X	PG	01 28 58.4	0.6	3.10			
I	X	SG	01 29 35.5	1.0	3.52			
I	N	X	01 29 38.5	1.0	3.69			
I	X	LR	01 29 57.-	8.0				
BOC	-E Z	B4 PN	01 28 56.2	0.3	2.30	2	370 3.4	158.8 340.1
HAM	E Z	SX -	01 29 50.-			2	570 5.1	186.5 5.8
HLG	E E X	-	01 31 17.-	1.2	2.72	2	650 5.9	172.3 353.2
	E N X	-	01 31 17.-	1.4	2.76	2		

FEB 26 BCIS  
 H= 01 43 29.0  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 3 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 01 43 29.3, 48 DEG 19.0 MIN N, 8 DEG 58.0 MIN E  
 DEPTH= 2.4 KM, ML=2.4

MSS	+E N	ST SG	01 43 34.3	0.6	2.77	5	10 0.1	10.6 190.6
STU	E N	BE SG	01 43 45.1	0.5	2.38	9	50 0.5	195.3 15.2
BUH	-I Z	GT PG	01 43 42.0				70 0.6	125.9 306.5
GRF	E Z	BE PN	01 44 02.3				220 2.0	227.2 45.5
	-I Z	BE PG	01 44 07.4	0.4	1.11	3		
	E R	BE SG	01 44 32.5					

FEB 26 BCIS  
 H= 02 41 47.0  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 02 41 48.8, 48 DEG 19.0 MIN N, 9 DEG 01.0 MIN E  
 DEPTH= 2 KM, ML=1.9

MSS	-E E	ST SG	02 41 52.6	0.5	2.40	3	10 0.1	10.6 190.6
STU	E N	BE SG	02 42 03.0	0.4	1.99	4	50 0.5	195.3 15.2
BUH	-I Z	GT PG	02 42 00.2				70 0.6	125.9 306.5
GRF	-E Z	BE PG	02 42 35.6	0.4	1.00	3	220 2.0	227.2 45.5
	E R	BE SG	02 42 51.2					

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FEB 26	BCIS							
H=	02 55 35.0							
LAT =	48.3 N							
LONG=	9.0 E							
DEPTH=	2 KM							
NO MAGNITUDE COMPUTED GERMANY								
STU	=	WESTERN SWABIAN JURA.						
H=	02 55 33.6, 48 DEG	19.0 MIN N, 8 DEG	58.0 MIN E					
DEPTH=	2-3 KM, ML=1.8							
MSS	-E E	ST SG	02 55 39.1	0.5	2.30	3	10 0.1	10.6 190.6
STU	E N	BE SG	02 55 50.0	0.4	1.86	3	50 0.5	195.3 15.2
BUH	-I Z	GT PG	02 55 48.4				70 0.6	125.9 306.5

FEB 26  
 NO DETERMINATION OF EPICENTER

FUR	+E Z	SL -	07 12 42.0	1.6	1.67	7		
	+E Z	SL -	07 14 20.0	1.5	1.60	6		

FEB 26 BCIS  
 H= 10 47 51.0  
 LAT = 48.3 N  
 LONG= 9.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

BCIS = WESTERN SWABIAN JURA.

BUH	-I Z	GT PG	10 48 04.3				70 0.6	125.9 306.5
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FEB 26  
 NO DETERMINATION OF EPICENTER

GRF	E Z	BE PG	11 17 47.6					
	+E R	BE SG	11 18 02.3	0.6	1.24	4		

FEB 26  
 NO DETERMINATION OF EPICENTER

GRF	+E Z	BE PG	11 50 17.1	0.8	1.17	2		
	+E R	BE SG	11 50 34.0	0.6	1.24	3		



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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FEB 26 USCGS  
 H= 12 35 47.8  
 LAT = 36.6 N  
 LONG= 27.2 E  
 DEPTH= 27 KM  
 MAGNITUDE= 4.8  
 DODECANESE ISLANDS

FUR	+E Z SL	P	12 39 38.0	1.5	1.30	3	1830	16.4	128.8 319.6
	+E Z SL	XP	12 39 49.0	1.5	1.43	4			
GRF	E Z BE	P	12 39 54.-				1940	17.4	132.5 323.4

FEB 26  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 48 24.3						
	E R BE	SG	12 48 50.-						

FEB 26  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PN	12 54 33.7	0.5	1.05	3			
	+I Z BE	PG	12 54 38.2	0.5	1.55	4			
	E Z BE	-	12 54 45.6						
	-E Z BE	-	12 54 48.9						
	E R BE	SG	12 54 56.0	0.4	1.21	2			
	E R BE	-	12 55 05.-						

FEB 26  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	14 26 36.5	0.5	1.05	3			
	+I R BE	SG	14 26 57.6	0.7	1.62	5			

FEB 27  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	-	00 39 32.-						
	E Z X	-	00 39 38.5						
	E X	-	00 39 47.-						

FEB 27  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	14 57 35.5						
	E E X	SG	14 57 46.5						
	E X	-	14 57 58.-						

FEB 27  
 NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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GRF	+I Z BE	PG	15 45 24.8	0.4	1.51	5			
	+E R BE	SG	15 45 43.8						

FEB 27 STU  
 H= 21 27 02.6  
 LAT = 44.3 N  
 LONG= 9.1 E  
 DEPTH= 4 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.

STU	E E BE	SG	21 27 19.6	0.5	2.04	5	50	0.5	189.7 9.6
BUH	-I Z GT	PG	21 27 17.8				80	0.7	124.2 304.9

FEB 28 USCGS  
 H= 02 40 32.5  
 LAT = 36.0 N  
 LONG= 10.6 W  
 DEPTH= 22 KM  
 MAGNITUDE= 7.3  
 NORTH ATLANTIC OCEAN

FEB 28 BCIS  
 H= 02 40 33.0  
 LAT = 36.2 N  
 LONG= 10.5 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

USCGS= 13 KILLED(11 MOROCCO, 2 PORTUGAL), 80 INJURED(65 PORTUGAL, 5 SPAIN, 10 MOROCCO). A NUMBER OF HEART ATTACKS ATTRIBUTED TO QUAKE DAMAGE IN PORTUGAL, MOROCCO AND SPAIN. FELT THROUGHOUT PORTUGAL, MOROCCO, SPAIN AND CANARY ISLANDS. ALSO FELT IN FRANCE AND BY SHIPS ON HIGH SEAS. TSUNAMI OF 1.2 M AT CASABLANCA, LESS THAN 1 M AT CANARIES AND GULF OF CADIZ.  
 MAX. INTENSITY = VII.  
 MAG.= 8 (PAS), 7.9 (BRK), 8.2 (GOL), 7 1/4 (PAL).

FEL	+I E ST	P	02 44 45.8				2020	18.2	236.0 43.5
BUH	+I Z GT	P	02 44 52.7	2.8		9	2080	18.7	234.4 41.7
MSS	+I Z ST	P	02 44 54.5				2100	18.9	237.0 43.8
HAV	+I Z ST	P	02 44 57.0				2120	19.0	239.1 45.6
KRL	+E Z ST	P	02 44 56.6				2120	19.0	234.0 41.1
	+I Z ST	-	02 44 56.9	2.5	4.50	9			
STU	+I Z RE	P	02 44 54.6				2150	19.3	236.0 42.6



FEB 1969						FEB 1969						FEB 1969		
STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH	STAT.	EPIC.				
ABBREV.	SEIS.		H M S		AMP.		KM DEG.					KM DEG.	STAT.	EPIC.
HEI	+I Z ST	P	02 45 00.2				2160 19.4	233.7	40.5					
BNS	+I Z X	P	02 45 02.6	4.1	4.77	9	2190 19.7	227.3	35.0					
	E E X	S	02 48 28.-											
	E X	LQ	02 49 45.-	32.0										
	N X	MAXIMUM	02 51 40.-	19.0	6.85									
	E X	MAXIMUM	02 51 40.-	19.0	6.78									
TNS	I	P	02 45 04.0				2200 19.8	231.3	38.2					
BOC	+I Z B4	P	02 45 06.7	2.0	4.36	2	2230 20.0	226.3	33.9					
	-E E B4	S	02 48 40.7	1.0	3.34	2								
FUR	-I Z SL	P	02 45 08.0	3.0	4.56	9	2240 20.2	241.0	46.2					
	Z SL	MAXIMUM	02 59 00.0	11.0	4.78									
GRF	+I Z BE	P	02 45 16.4			9	2330 20.9	237.4	42.4					
HOF	I S WI	P	02 45 24.0	5.5	4.89	9	2400 21.6	237.2	41.6					
	I S WI	XP	02 45 36.0	8.2	4.48	9								
	I S WI	PP	02 45 50.0	11.0	5.70	9								
	I S WI	-	02 47 01.0	8.2	4.70	9								
	I S WI	S	02 49 27.0	19.6	5.55	9								
	I S WI	XS	02 49 49.0	11.0	5.38	9								
	I S WI	-	02 50 00.0	16.3	6.36	9								
	S WI	MAXIMUM	02 59 00.0	35.0	7.43									
HLG	+I Z X	P	02 45 29.9			9	2470 22.2	222.7	29.4					
	+I N X	P	02 45 30.7	1.8	4.24	9								
	+I E X	P	02 45 30.9	1.8	4.37	9								
	E Z X	-	02 51 27.-	6.0	4.23	9								
	E Z X	L	02 54 37.7	18.0	7.00	9								
	E E X	L	02 54 43.-	18.0	7.26	9								
HAM	+I Z SX	P	02 45 33.9			9	2510 22.6	227.6	33.0					

FEB 28 USCGS  
 H= 04 25 36.9  
 LAT = 36.2 N  
 LONG= 10.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.7  
 NORTH ATLANTIC OCEAN

FEB 28 BCIS  
 H= 04 25 32.0  
 LAT = 36.2 N  
 LONG= 10.5 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

USCGS= FELT AT RABAT(III), CASABLANCA(III) AND AVERROES,MOROCCO AND AT LISBON,PORTUGAL.

BUH	+I Z GT	P	04 29 53.2	2.8	3.30	7	2060 18.5	234.7	42.0					
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FEB 1969						FEB 1969						FEB 1969		
STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH	STAT.	EPIC.				
ABBREV.	SEIS.		H M S		AMP.		KM DEG.					KM DEG.	STAT.	EPIC.
KRL	+E Z ST	P	04 29 57.3	2.5	3.93	9	2090 18.8	234.3	41.4					
RAV	+I Z ST	P	04 29 58.1	2.5	3.91	9	2090 18.8	239.5	45.9					
STU	+I Z BE	P	04 30 00.3				2120 19.1	236.3	42.9					
BNS	+I Z X	P	04 30 03.0	3.0	3.60	9	2160 19.4	227.5	35.2					
TNS	I	P	04 30 04.5				2180 19.6	231.6	38.5					
FUR	-I Z SL	P	04 30 09.0	2.5	3.50	9	2220 20.0	241.3	46.6					
	-I Z SL	PP	04 30 25.0	2.5	3.50	1								
	+I Z SL	SS	04 34 14.0	7.0	4.21	9								
	Z SL	MAXIMUM	04 40 00.0	14.0	5.39									
GRF	+I Z BE	P	04 30 17.6	1.4	2.95	9	2300 20.7	237.7	42.7					
HLG	+I Z X	P	04 30 29.7	2.0	3.24	6	2450 22.0	222.8	29.6					
	E E X	P	04 30 33.-	2.0	3.08	2								
	E N X	P	04 30 34.-	2.0	3.13	4								
HAM	+I Z SX	P	04 30 35.4			6	2490 22.4	227.8	33.2					

FEB 28  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	06 00 35.6	0.4	1.30	5								
	E R BE	SG	06 00 58.5											

FEB 28  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	-	09 15 42.4	0.8	1.25	2								
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FEB 28 USCGS  
 H= 09 59 48.0  
 LAT = 35.9 N  
 LONG= 10.8 W  
 DEPTH= 25 KM  
 MAGNITUDE= 4.6  
 NORTH ATLANTIC OCEAN

FEB 28 BCIS  
 H= 09 59 50.0  
 LAT = 36.2 N  
 LONG= 10.5 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

USCGS= FELT AT LISBON, RABAT AND CASABLANCA(III).

BNS	E Z FS	P	10 04 20.5				2200 19.8	227.7	35.2					
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80

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	+E Z SL	P	10 04 26.0	2.0	2.28	9	2270 20.4	241.3 46.3
	+E Z SL	AP	10 04 34.0	1.5	1.52	5		
	-E Z SL	-	10 05 06.0	1.4	1.76	4		
GRF	+E Z BE	P	10 04 33.2	0.8	1.43	2	2350 21.1	237.7 42.6

FEB 28  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	11 20 06.7	0.5	0.99	3		
	-E R BE	SG	11 20 20.3	0.6	1.24	2		

FEB 28  
NO DETERMINATION OF EPICENTER

BNS	E N X	SG	11 34 21.2	0.9	1.90			
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FEB 28  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	11 50 29.1	0.4	1.13	4		
	+I R BE	SG	11 50 56.8	0.8	1.83	6		
FUR	E N SL	-	11 51 30.0	1.0	2.29	6		

FEB 28 STU  
H= 13 33 00.1  
LAT = 48.3 N  
LONG= 9.1 E  
DEPTH= 4 KM  
NO MAGNITUDE COMPUTED  
GERMANY

WESTERN SWABIAN JURA. STU ML=1.9

MSS	-E E ST	SG	13 34 05.3	0.5	2.67	4	10 0.1	32.0 212.1
STU	E Z BE	SG	13 34 17.0	0.5	1.82	2	50 0.5	189.7 9.6
BUH	I Z GT	PG	13 34 15.0			2	80 0.7	124.2 304.9
GRF	E Z BE	PG	13 34 39.3				220 2.0	226.0 44.4
	E R BE	SG	13 35 04.5					

FEB 28 USCGS  
H= 13 47 11.7  
LAT = 51.7 N  
LONG= 158.0 E  
DEPTH= 58 KM  
MAGNITUDE= 5.0  
NEAR EAST COAST OF KAMCHATKA

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FEB 1969

FEB 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	P	13 58 50.0	0.8	1.72	7	8360 75.1	20.7 338.4
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FEB 28 USCGS  
H= 15 20 38.6  
LAT = 35.9 N  
LONG= 10.7 W  
DEPTH= 27 KM  
MAGNITUDE= 4.2  
NORTH ATLANTIC OCEAN

USCGS= FELT AT CASABLANCA AND RABAT, MOROCCO.

GRF	-E Z BE	P	15 25 23.7	1.0	1.31	2	2350 21.1	237.5 42.4
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FEB 28  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	-	16 57 12.0	0.8	1.17	1		
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FEB 28  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	P	23 13 41.9	0.7	1.32	4		
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MAR 01 USCGS  
H= 10 38 03.4  
LAT = 46.8 N  
LONG= 153.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
KURIL ISLANDS

GRF	-E Z BE	P	10 50 03.9	0.8	1.17	2	8730 78.5	25.3 336.2
	-E Z BE	AP	10 50 14.7					

MAR 01  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 34 15.9	0.4	1.11	5		
	E R BE	SG	12 34 35.7					
	E R BE	-	12 34 56.0					

MAR 01 USCGS  
H= 15 00 20.0  
LAT = 41.4 N  
LONG= 79.4 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
KIRGIZ-SINKIANG BORDER REGION



R2

MAR 1969 MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

GRF -E Z BE P 15 08 50.5 0.6 0.93 2 5220 47.0 72.9 304.4

MAR 01  
 NO DETERMINATION OF EPICENTER

BNS E Z FS - 15 20 35.- 3.5 2.00 2

MAR 01 STU  
 H= 16 45 47.2  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

WESTERN SWABIAN JURA. STU ML=2.5

MSS -E E ST SG 16 45 52.5 0.6 2.49 5 10 0.1 16.2 196.2  
 STU +E Z BE PG 16 45 57.7 0.5 1.29 2 60 0.5 194.0 13.9  
 +I E BE SG 16 46 04.7 0.5 2.59 8  
 BUH -I Z GT PG 16 46 01.0 3 70 0.7 127.0 307.6  
 FEL -E N ST SG 16 46 16.3 0.4 1.68 5 90 0.8 58.3 239.1  
 GRF E Z BE PG 16 46 26.4 230 2.0 226.6 45.0  
 E R BE SG 16 46 51.4

MAR 01 USCGS  
 H= 20 27 17.6  
 LAT = 48.2 N  
 LONG= 8.8 E  
 DEPTH= 12 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

MAR 01 BCIS  
 H= 20 27 16.9  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 20 27 16.5, 48 DEG 17.5 MIN N, 9 DEG 2.0 MIN E  
 DEPTH= 1.2 KM, ML=3.2

MSS +E Z ST PG 20 27 18.5 0.5 2.02 2 20 0.2 288.0 107.9  
 -I E ST SG 20 27 20.8 0.5 3.96 9  
 BUH -I Z GT PG 20 27 29.1 4 60 0.6 142.1 322.5

R3

MAR 1969 MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

FEL +E N ST PG 20 27 31.4 0.4 1.20 2 70 0.6 54.2 234.8  
 +E N ST SG 20 27 43.2

STU -I Z BE PG 20 27 25.7 0.5 1.87 7 70 0.6 208.6 28.2  
 +I E BE SG 20 27 32.6

RAV +I E ST SG 20 27 37.9 0.5 2.69 9 80 0.7 307.7 127.0

KRL -I Z ST PG 20 27 33.1 0.6 2.71 5 90 0.8 163.9 344.2

HEI -E Z ST PN 20 27 37.8 0.5 1.31 2 130 1.2 179.2 359.2  
 -E Z ST PG 20 27 38.7 0.5 2.28 9  
 +E N ST SG 20 27 53.2 0.6 3.02 9

FUR +E Z SL PN 20 27 47.0 1.5 1.83 9 190 1.7 273.0 91.1  
 Z SL MAXIMUM 20 29 30.0 1.5 1.83

TNS E P 20 27 54.0 220 2.0 174.2 354.5  
 I S 20 28 19.0

GRF I Z BE PN 20 27 49.5 240 2.2 228.8 47.0  
 -I Z BE PG 20 27 54.4 0.4 1.33 4  
 E R BE SG 20 28 19.-

MAR 01 STU  
 H= 20 30 49.3  
 LAT = 48.3 N  
 LONG= 9.1 E  
 DEPTH= 3 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

WESTERN SWABIAN JURA. STU ML=2.7

MSS -I E ST SG 20 29 54.5 0.5 3.00 7 20 0.1 25.6 205.6  
 STU -E Z BE PG 20 30 01.2 0.5 1.68 2 50 0.5 190.9 10.8  
 +I E BE SG 20 30 06.2 0.5 2.80 9  
 RAV +E E ST SG 20 30 11.5 0.5 1.70 2 70 0.6 325.0 144.6  
 BUH -I Z GT PG 20 30 07.7 4 70 0.7 123.2 303.8  
 FEL -E N ST SG 20 29 18.4 0.3 2.03 7 90 0.8 57.7 238.5  
 HEI -E Z ST PG 20 30 12.2 0.3 1.35 3 120 1.1 168.4 348.7  
 +E E ST SG 20 30 26.8 0.5 1.97 6  
 GRF -I Z BE PG 20 30 28.3 220 2.0 226.5 44.9  
 E R BE SG 20 30 52.8

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MAR 1969

MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAR 01 STU  
 H= 20 31 30.1  
 LAT = 48.3 N  
 LONG= 9.1 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

WESTERN SWABIAN JURA. STU ML=2.9

MSS	-I E ST	SG	20 31 35.1	0.5	3.23	9	10 0.1 26.8 206.9
STU	-E Z BE	PG	20 31 39.7	0.5	1.62	3	50 0.5 191.3 11.1
	+I E BE	SG	20 31 47.2	0.5	2.95	9	
RAV	+E E ST	SG	20 31 52.4	0.5	1.91	3	70 0.6 323.5 143.1
BUH	-I Z GT	PG	20 31 43.2			4	70 0.7 124.9 305.5
FEL	-E N ST	PG	20 31 46.9	0.5	1.46	3	90 0.8 58.7 239.4
KRL	I Z ST	PG	20 31 48.0	0.6	2.11	3	90 0.8 149.4 329.9
HEI	E Z ST	PN	20 31 51.7	0.3	1.29	2	130 1.1 169.0 349.2
	-E Z ST	PG	20 31 52.7	0.4	1.82	6	
	-E E ST	SG	20 32 12.3	0.5	3.05	8	
GRF	E Z BE	PN	20 32 03.9				220 2.0 226.3 44.7
	-I Z BE	PG	20 32 08.9	0.4	1.11	4	
	E R BE	SG	20 32 33.4				

MAR 01 USCGS  
 H= 21 03 50.2  
 LAT = 19.2 S  
 LONG= 169.1 E  
 DEPTH=157 KM  
 MAGNITUDE= 4.5  
 NEW HEBRIDES ISLANDS

GRF	-E Z BE	PKP	21 23 09.7	0.5	0.91	2	16100 144.8 38.0 335.0
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MAR 02  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 24 35.0	1.5	1.11	9	
	+E Z SL	-	14 25 17.0	1.5	1.60	9	
	-E Z SL	-	14 26 24.0	1.0	2.29	5	

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MAR 1969

MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAR 02 USCGS  
 H= 18 00 55.2  
 LAT = 36.0 N  
 LONG= 10.9 W  
 DEPTH= 18 KM  
 MAGNITUDE= 4.4  
 NORTH ATLANTIC OCEAN

FUR	+E Z SL	P	18 05 34.0	1.5	1.43	9	2260 20.4 241.6 46.6
	+E Z SL	AP	18 05 41.0	1.5	1.52	9	
	-E Z SL	PP	18 05 54.0	1.5	1.52	9	
	-E Z SL	-	18 06 11.0	1.5	1.43	9	

GRF	-E Z BE	P	18 05 41.4	0.6	0.93	3	2350 21.1 238.0 42.8
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MAR 02 USCGS  
 H= 22 23 17.4  
 LAT = 12.9 N  
 LONG= 120.8 E  
 DEPTH= 80 KM  
 MAGNITUDE= 5.0  
 MINDORO, PHILIPPINE ISLANDS

GRF	E Z BE	P	22 36 27.-				10280 92.5 66.9 322.2
FUR	-E Z SL	AP	22 36 40.0	1.5	1.52	5	10350 93.0 67.0 320.8
	-E Z SL	XP	22 36 49.0	1.5	1.52	3	

MAR 03 USCGS  
 H= 00 59 10.5  
 LAT = 40.1 N  
 LONG= 27.4 E  
 DEPTH= 4 KM  
 MAGNITUDE= 5.6  
 TURKEY

MAR 03 BCIS  
 H= 00 59 14.0  
 LAT = 40.2 N  
 LONG= 27.4 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= 1 INJURED AND DAMAGE AT GONEN, FELT IN WESTERN TURKEY.

FUR	+I Z SL	P	01 02 32.0	1.8	2.10	9	1570 14.1 118.8 310.1
	-I Z SL	PP	01 02 45.0	1.5	2.37	2	
	+I Z SL	PPP	01 02 51.0	1.5	2.21	3	
	-I Z SL	-	01 03 00.0	1.5	2.21	5	
	-I Z SL	S	01 05 18.0	1.5	2.00	3	
	+I Z SL	SS	01 05 28.0	1.5	2.12	4	
	-I Z SL	SSS	01 05 38.0	1.6	2.00	3	

MAR 1969 MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
	-I Z SL	-	01 05 53.0	1.5	2.00	9			
	Z SL	MAXIMUM	01 07 30.0	9.0	4.60				
GRF	+E Z BE	P	01 02 43.5	1.8	2.11	3	1660	14.9	123.8 315.2
	+E Z BE	PP	01 03 09.4						
	+E Z BE	-	01 03 59.5						
	E R BE	SKPPKP	01 07 55.-						
STU	E Z BE	P	01 02 50.3	1.5	2.49	4	1740	15.6	116.9 309.7
	+I E BE	S	01 06 08.2	10.0	3.58	9			
BUH	E Z GT	P	01 02 58.-	1.8	1.86	3	1790	16.1	114.9 308.3
	GT	-	01 03 05.-						
KHL	E Z ST	P	01 02 59.4			2	1800	16.2	116.2 309.6
	E Z ST	-	01 03 06.2	1.8	3.18	3			
TNS	E	P	01 03 08.0				1860	16.7	119.9 313.5
	E	S	01 06 26.0						
BNS	E Z FS	P	01 03 19.6	3.0	3.15	9	1980	17.8	119.7 314.3
	I Z FS	S	01 06 50.-						
	E FS	LR	01 08 08.-	38.0					
	E Z FS	-	01 08 27.-						
	Z FS	MAXIMUM	01 11 10.-	14.0					
HAM	+I Z ZX	P	01 03 22.1			5	1990	17.9	131.3 324.1
	E N WI	S	01 06 51.-			6			
HLG	E Z X	P	01 03 37.-	2.0	2.98	3	2140	19.3	129.0 323.4

MAR 03 USCGS  
 H= 06 20 21.8  
 LAT = 30.2 N  
 LONG= 79.9 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.3  
 TIBET-INDIA BORDER REGION

GRF	+E Z BE	P	06 29 49.0	1.0	1.31	1	6030	54.2	83.9 311.8
FUR	+E Z SL	P	06 29 50.0	1.5	1.43	4	6050	54.4	82.9 309.9
	-E Z SL	AP	06 29 55.0	1.5	1.52	5			

MAR 03  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	PG	11 02 41.4			2			
	E Z FS	SG	11 02 53.-						
	E FS	-	11 03 07.-						
GRF	E Z BE	-	11 04 02.8						

MAR 1969 MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
	MAR 03	USCGS							
	H=	13 12 44.8							
	LAT =	16.7 S							
	LONG=	172.8 W							
	DEPTH=	54 KM							
	MAGNITUDE=	4.6							
	SAMOA ISLANDS REGION								

GRF	E Z BE	PKP	13 32 37.-				16340	146.9	7.1 355.2
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MAR 03 USCGS  
 H= 14 49 28.0  
 LAT = 51.6 N  
 LONG= 159.3 E  
 DEPTH= 12 KM  
 MAGNITUDE= 5.3  
 OFF EAST COAST OF KAMCHATKA

BNS	+I Z FS	P	15 01 11.4	3.0	2.52	5	8350	75.1	17.6 342.2
	E Z FS	-	15 01 23.4						
	E FS	LR	15 30 00.-						
GRF	+I Z BE	P	15 01 14.2	0.9	1.81	8	8390	75.5	19.9 339.2
STU	+E Z BE	P	15 01 20.5	1.1	2.40	4	8540	76.8	18.6 340.2
FUR	-I Z SL	P	15 01 27.0	1.4	1.68	7	8550	76.9	19.8 338.6
	+I Z SL	-	15 01 28.0	1.8	2.14	6			
	+I Z SL	PCP	15 01 38.0	1.8	2.14	1			
	Z SL	MAXIMUM	15 40 00.0	19.0	3.58				
	N SL	MAXIMUM	15 42 30.0	14.0	3.92				
BUH	+E Z GT	P	15 01 22.5	1.2	1.75	3	8570	77.1	18.0 340.8

MAR 03  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	16 27 23.2						
	E R BE	SG	16 27 39.-						

MAR 03 USCGS  
 H= 16 30 13.8  
 LAT = 16.9 S  
 LONG= 172.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 SAMOA ISLANDS REGION

BNS	E Z FS	PKP	16 49 52.0	2.8	2.46	5	16240	146.0	359.5 0.3
	E Z FS	LR	16 50 00.-						
	FS	MAXIMUM	17 00 00.-	18.0					



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MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	+E Z BE	PKP	16	49	56.0	2.0	2.07	2	16370	147.2	6.6	355.5
	+E Z BE	PKP2	16	50	24.8	2.2	2.79	4				
FUR	+E Z SL	PKP	16	50	01.0	2.0	2.18	8	16530	148.7	7.0	355.1
	-E Z SL	PKP2	16	50	11.0	2.0	2.18	8				
	-E Z SL	APKP	16	50	18.0	1.5	1.83	2				
	+E Z SL	XPKP	16	50	21.0	2.0	2.20	2				

MAR 04 USCGS  
 H= 01 47 25.5  
 LAT = 37.0 N  
 LONG= 31.1 E  
 DEPTH=109 KM  
 MAGNITUDE= 5.0  
 TURKEY

MAR 04 BCIS  
 H= 01 47 29.0  
 LAT = 37.2 N  
 LONG= 31.0 E  
 DEPTH=120 KM  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= FELT AT ANTALYA.

FUR	+I Z SL	P	01	51	34.0	1.3	2.15	9	2040	18.3	120.4	313.9
	-E Z SL	PP	01	51	57.0	1.5	1.52	5				
	+E Z SL	XP	01	52	06.0	1.5	1.52	5				
GRF	+E Z BE	P	01	51	42.4	0.9	1.38	3	2130	19.2	124.1	317.8
STU	+I Z BE	P	01	51	49.2	0.7	2.68	9	2210	19.8	118.4	313.4
BUH	+E Z GT	P	01	51	54.5	1.0	1.77	3	2260	20.4	116.6	312.3
KRL	+E Z ST	P	01	51	55.8	1.1		2	2270	20.4	117.7	313.3
	+E Z FS	P	01	52	11.8	2.0	1.78	2	2450	22.0	120.2	317.0
	E Z FS	-	01	52	25.-							
	E Z FS	-	01	52	53.5							

MAR 05 USCGS  
 H= 00 19 32.8  
 LAT = 16.9 S  
 LONG= 173.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 TONGA ISLANDS

BNS	E Z FS	PKP	00	39	12.4	2.0	1.78	2	16240	146.1	1.5	359.0
	E Z FS	-	00	39	33.-							

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MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

MAR 05 USCGS  
 H= 02 57 33.5  
 LAT = 35.9 N  
 LONG= 10.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 NORTH ATLANTIC OCEAN

MAR 05 BCIS  
 H= 02 57 30.0  
 LAT = 35.0 N  
 LONG= 10.6 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

USCGS= FELT IN WESTERN MOROCCO.  
 BCIS = FELT AT LISBON(II).

GRF	+E Z HE	P	03	02	19.0	0.7	1.28	4	2350	21.1	237.7	42.6
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MAR 05  
 NO DETERMINATION OF EPICENTER

HLG	+I Z X	-	11	02	56.4			4				
	+I E X	-	11	02	55.0	1.2	2.96	8				
	+E N X	-	11	02	55.0	1.2	2.98	9				

MAR 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	12	43	21.1							
	E R HE	SG	12	43	46.-							

MAR 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	13	01	11.8	0.6	1.11	2				
	E R HE	SG	13	01	42.5							

MAR 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	13	12	33.5	0.6	1.11	3				
	E R HE	SG	13	12	51.9	0.4	1.11	2				

MAR 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	-	13	13	05.6	0.4	1.00	2				
	E R HE	-	13	13	15.9							

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MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 05  
NO DETERMINATION OF EPICENTER

HLG +I Z X - 13 38 12.9 1.2 2.51 3  
E N X - 13 38 13.1 1.2 2.51 3  
+I E X - 13 38 12.5 1.0 2.53 3

MAR 05 USCGS  
H= 13 52 04.9  
LAT = 4.0 N  
LONG= 128.2 E  
DEPTH= 48 KM  
MAGNITUDE= 5.7  
NORTH OF HALMAHERA

GRF E Z HE PKP 14 09 47.2 0.8 1.17 1 11560 103.9 66.4 323.4  
E Z HE PP 14 10 25.0 2.0 2.10 1  
FUR +E Z SL PP 14 10 27.0 2.0 2.23 2 11620 104.5 66.8 321.9  
-E Z SL APP 14 10 36.0 1.5 1.52 2  
BNS +E Z FS PP 14 10 38.0 11760 105.7 62.7 325.7  
E Z FS SP 14 20 09.-  
E FS - 14 20 39.- 3.3 2.55  
E Z SL LH 14 45 40.-  
Z SL MAXIMUM 14 57 00.- 20.0

MAR 05 USCGS  
H= 14 41 16.1  
LAT = 40.0 N  
LONG= 27.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
TURKEY

MAR 05 BCIS  
H= 14 41 16.0  
LAT = 40.1 N  
LONG= 27.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
TURKEY

USCGS= FELT AT ISTANBUL.

FUR -E Z SL P 14 44 36.0 1.5 1.11 1 1570 14.2 119.0 310.3  
+E Z SL XP 14 44 45.0 1.5 1.82 9  
-E Z SL PPP 14 44 52.0 1.5 1.72 4  
-E Z SL S 14 47 12.0 1.5 1.60 6  
+E Z SL SS 14 47 27.0 1.5 1.60 6  
Z SL MAXIMUM 14 49 33.0 3.0 2.89  
GRF E Z HE P 14 44 48.4 1670 15.0 123.9 315.4  
-E Z HE PP 14 44 56.0 1.0 1.61 2

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MAR 1969

MAR 1969 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

BUH +E Z GT P 14 45 07.8 1.8 2.03 4 1800 16.2 115.0 308.5

MAR 05 USCGS  
H= 16 11 12.2  
LAT = 4.1 N  
LONG= 128.4 E  
DEPTH= 49 KM  
MAGNITUDE= 5.1  
NORTH OF HALMAHERA

FUR -I Z SL PP 16 29 36.0 1.5 1.82 9 11630 104.6 66.6 322.0  
-E Z SL APP 16 29 44.0 3.0 2.65 4  
BNS E Z SL PP 16 29 42.- 11760 105.8 62.5 325.8  
E Z SL SP 16 39 10.-  
E SL - 16 39 54.-

MAR 05  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 17 01 03.8

MAR 05 USCGS  
H= 19 33 23.0  
LAT = 36.4 N  
LONG= 70.7 E  
DEPTH= 208 KM  
MAGNITUDE= 5.9  
HINDU KUSH REGION

USCGS= FELT AT KABUL, AFGHANISTAN.

GRF +I Z HE P 19 41 14.9 1.1 2.14 6 4930 44.3 84.0 306.8  
E Z HE AP 19 42 01.3  
E Z HE PP 19 43 01.-  
+E Z HE - 19 45 57.4  
FUR -I Z SL P 19 41 15.0 1.7 2.68 9 4950 44.5 82.5 304.6  
-I Z SL AP 19 41 57.0 1.5 2.12 2  
-I Z SL XP 19 42 24.0 1.5 2.43 5  
+I Z SL PCP 19 42 55.0 1.6 2.00 4  
+I Z SL PP 19 43 05.0 1.7 2.52 3  
-I Z SL APP 19 43 39.0 1.5 2.38 2  
-I Z SL XPP 19 44 06.0 1.9 2.86 9  
-I Z SL SCP 19 46 21.0 1.8 2.49 5  
+I Z SL PCS 19 46 46.0 1.5 2.00 4  
-E Z SL S 19 47 39.0 3.0 2.89 1  
-I Z SL SP 19 47 45.0 1.6 1.97 3  
-I Z SL XPP 19 47 54.0 1.6 1.94 3  
HAM +I Z ZX P 19 41 19.2 2 4990 44.8 86.9 312.2  
+I Z WZ XP 19 42 27.- 2

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MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
STU	+I Z BE	P	19 41 24.6	1.5	3.16	9	5090	45.8	81.7 305.7
	+I N BE	S	19 47 56.0	14.0	3.74	9			
HEI	+I Z ST	P	19 41 27.2	2.0	2.95	9	5110	46.0	82.0 306.7
HLG	+I Z X	P	19 41 27.3	2.0	3.14	8	5120	46.0	86.0 313.4
	E N X	P	19 41 29.-	2.0	2.42	2			
	+I E X	P	19 41 28.2	1.2	2.80	4			
TNS	E	P	19 41 27.0				5120	46.1	82.6 307.8
KRL	+I Z WH	P	19 41 30.0				5140	46.2	81.4 306.2
BUH	+E Z GT	P	19 41 30.2	1.9	2.77	7	5160	46.4	81.0 305.7
BNS	+I Z FS	P	19 41 32.8	2.0	2.91	9	5200	46.8	82.4 309.0
	E Z FS	-	19 42 15.-						
	E FS	-	19 42 40.-						
	E Z SL	-	19 43 24.-						
	E Z SL	S	19 49 16.-						
	E SL	LR	19 56 00.-	52.0					

MAR 05 STU  
H= 22 31 02.0  
LAT = 48.3 N  
LONG = 8.9 E  
DEPTH = 3 KM  
MAGNITUDE ML = 2.3  
GERMANY

WESTERN SWABIAN JURA.

MSS	-E E ST	SG	22 31 07.1	0.5	2.60	4	20	0.2	348.5 168.4
STU	E E BE	SG	22 31 18.4	0.5	2.28	8	50	0.5	202.5 22.3
BUH	-I Z GT	PG	22 31 15.7			3	60	0.6	126.7 307.2

MAR 06 USCGS  
H= 01 20 46.7  
LAT = 4.2 N  
LONG = 128.3 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.1  
NORTH OF MALMERA

FUR	+E Z SL	PP	01 39 11.0	1.6	1.72	1	11610	104.4	66.6 322.0
	-E Z SL	APP	01 39 23.0	1.3	1.96	6			
	+E Z SL	-	01 39 34.0	1.6	1.67	7			

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MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAR 06 STU  
H= 04 10 33.0  
LAT = 48.3 N  
LONG = 9.1 E  
DEPTH = 4 KM  
MAGNITUDE ML = 2.3  
GERMANY

WESTERN SWABIAN JURA.

MSS	-E E ST	SG	04 10 38.1	0.7	2.60	4	20	0.1	25.6 205.6
STU	+E E BE	SG	04 10 49.8	0.5	2.33	9	50	0.5	190.9 10.8
BUH	I Z GT	PG	04 10 47.5			3	70	0.7	123.2 303.8

MAR 06  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	05 20 09.0	1.5	1.52	5			
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MAR 06  
NO DETERMINATION OF EPICENTER

BUH	I Z GT	PG	13 29 08.6						
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MAR 06 USCGS  
H= 19 23 44.1  
LAT = 36.0 N  
LONG = 10.6 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.8  
NORTH ATLANTIC OCEAN

MAR 06 BCIS  
H= 19 23 43.0  
LAT = 36.2 N  
LONG = 10.7 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTH ATLANTIC OCEAN

BCIS = FELT AT SALE(II), KENITRA(II), CASABLANCA(II).

BUH	+E Z GT	P	19 28 02.8	1.5	2.13	9	2080	18.7	234.5 41.8
KRL	+E Z ST	P	19 28 07.0	1.5	2.79	3	2110	19.0	234.1 41.1
STU	+E Z BE	P	19 28 09.0	1.3	2.85	9	2150	19.3	236.1 42.6
BNS	+E Z FS	P	19 28 12.4	1.0	2.20	5	2180	19.6	227.4 35.0
	E N FS	S	19 31 34.-						
	E FS	LR	19 33 20.-						



STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	-E Z SL	P	19	28	19.0	1.7	2.22	9	2240	20.2	241.1	46.3
	-I Z SL	Xp	19	28	31.0	1.9	2.21	1				
	+E Z SL	PP	19	28	36.0	2.0	2.28	2				
	-E Z SL	PPP	19	28	49.0	1.4	1.82	2				
	-I Z SL	-	19	28	53.0	1.3	1.03	7				
	-I Z SL	-	19	29	08.0	1.5	1.82	3				
	-I Z SL	-	19	29	42.0	1.3	2.19	5				
GRF	+I Z BE	P	19	28	26.8	1.0	2.00	8	2330	20.9	237.5	42.5
HLG	E Z X	P	19	28	40.1	1.2	2.61	2	2470	22.2	222.8	29.5
HAM	E Z ZX	P	19	28	45.-	1.1	1.70	1	2510	22.6	227.7	33.1
MAR 07 USCGS												
H= 01 44 26.7												
LAT = 17.8 S												
LONG= 175.4 W												
DEPTH=264 KM												
MAGNITUDE= 4.5												
TONGA ISLANDS												
GRF	-E Z BE	PKP	02	03	41.1	0.6	1.00	2	16430	147.7	11.9	352.0
FUR	-E Z SL	PKP2	02	03	46.0	1.0	1.21	5	16590	149.2	12.5	351.3
MAR 07 USCGS												
H= 08 26 57.5												
LAT = 49.8 N												
LONG= 78.2 E												
DEPTH= 0 KM (GEOPHYSICIST)												
MAGNITUDE= 5.5												
EASTERN KAZAKH SSR												
MAR 07 BCIS												
H= 08 27 00.0												
LAT = 50.0 N												
LONG= 78.0 E												
DEPTH= 0 KM												
NO MAGNITUDE COMPUTED												
EASTERN KAZAKH SSR												
BCIS = PROBABLY ARTIFICIAL.												
GRF	+I Z BE	P	08	34	52.1	0.8	1.88	8	4660	41.9	63.2	296.6
FUR	-I Z SL	P	08	34	57.0	1.4	2.10	4	4740	42.6	61.7	294.5
	-E Z SL	PP	08	35	41.0	1.3	2.19	5				
	+E Z SL	PCP	08	35	49.0	1.6	1.52	5				
	+E Z SL	-	08	36	03.0	1.3	1.89	5				
	+E Z SL	-	08	36	18.0	1.5	1.52	5				
BNS	+I Z FS	P	08	35	05.4	1.1	2.00	6	4850	43.6	62.5	300.0
	E Z FS	-	08	36	44.5							

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
KRL	+E Z ST	P	08	35	07.7	0.7	2.60	3	4880	43.9	61.3	296.9
BUH	+E Z GT	P	08	35	09.2	0.8	1.52	4	4910	44.1	60.9	296.6
MAR 07												
NO DETERMINATION OF EPICENTER												
BNS	E Z X	PG	09	34	53.0			2				
	E E X	SG	09	35	03.5							
	E X	-	09	35	17.-							
MAR 07 USCGS												
H= 11 44 41.8												
LAT = 5.5 S												
LONG= 152.3 E												
DEPTH= 33 KM (NORMAL)												
MAGNITUDE= 5.1												
NEW BRITAIN REGION												
FUR	-E Z SL	PKP	12	03	26.0	1.3	1.86	5	14020	126.0	50.7	328.6
	-E Z SL	-	12	03	32.0	1.5	1.52	3				
MAR 07 NFB												
H= 14 05 00.9												
LAT = 50.5 N												
LONG= 10.0 E												
DEPTH= 0 KM												
NO MAGNITUDE COMPUTED												
GERMANY												
NFB = QUARRYBLAST AT HILDERS(RHOEN), SHOTPOINT NO. 2												
H= 14 05 00.89, 50 DEG 32 MIN 31 SEC N, 10 DEG 2 MIN 31 SEC E												
HEIGHT= 730 METERS, CHARGE= 10.75 TONS.												
GRF	-I Z BE	PG	14	05	23.2	0.5	1.57	8	130	1.1	318.8	138.0
	E Z BE	SG	14	05	39.8							
MAR 07												
NO DETERMINATION OF EPICENTER												
FUR	+E Z SL	-	14	41	29.0	1.5	1.52	5				
	-E Z SL	-	14	41	41.0	1.5	1.43	4				
MAR 07												
NO DETERMINATION OF EPICENTER												
FUR	+E Z SL	-	15	07	46.0	1.5	1.30	3				
	-E Z SL	-	15	08	29.0	1.8	1.87	6				

MAR 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 07  
 NO DETERMINATION OF EPICENTER

FUR +E Z SL - 15 47 38.0 1.2 1.60 2  
 -E Z SL - 15 48 11.0 1.5 1.52 5

MAR 08 USCGS  
 H= 10 20 09.3  
 LAT = 41.3 N  
 LONG= 139.6 E  
 DEPTH=169 KM  
 MAGNITUDE= 5.7  
 HOKKAIDO, JAPAN REGION

GRF +E Z BE P 10 31 54.8 0.9 1.47 4 8750 78.7 37.0 328.7  
 -E Z BE PCP 10 32 05.3 1.0 1.91 2  
 +E Z BE AP 10 32 39.2 1.0 1.78 3  
 BNS E Z FS P 10 31 56.- 2 8810 79.2 34.5 331.6  
 E Z FS - 10 32 41.-  
 FUR +E Z SL P 10 32 01.0 1.7 1.82 8 8890 79.9 36.9 327.8  
 +E Z SL PCP 10 32 09.0 1.6 1.67 1  
 +E Z SL APCP 10 32 45.0 1.6 1.67 7  
 -E Z SL XP 10 32 53.0 1.6 1.72 2  
 +E Z SL PP 10 35 05.0 1.5 1.43 4  
 STU +E Z BE P 10 31 02.0 0.9 2.02 4 8920 80.2 35.6 329.3

MAR 08  
 NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 36 07.5  
 E R BE SG 12 36 26.3 0.6 1.42 5

MAR 08  
 NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 36 36.0  
 -E R BE SG 12 36 54.2 0.5 1.41 7

MAR 08 USCGS  
 H= 18 09 01.8  
 LAT = 15.6 S  
 LONG= 173.7 W  
 DEPTH=154 KM  
 MAGNITUDE= 5.1  
 TONGA ISLANDS

BNS -I Z FS PKP 18 28 20.0 1.0 2.20 8 16090 144.7 1.4 359.1  
 GRF -E Z BE PKP 18 28 24.2 1.3 1.78 3 16210 145.8 8.4 354.3

MAR 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

STU +E Z BE PKP 18 28 25.0 1.2 2.16 3 16330 146.8 5.1 356.5  
 BUH -E Z GT PKP 18 28 27.8 1.4 1.69 3 16340 147.0 3.4 357.7  
 FUR +E Z SL PKP 18 28 26.0 1.0 1.99 2 16380 147.3 8.9 353.9  
 +E Z SL PKP2 18 28 28.0 1.5 2.00 7  
 -E Z SL APKP 18 29 08.0 1.2 2.00 5

MAR 08  
 NO DETERMINATION OF EPICENTER

GRF E Z BE - 19 20 15.-

MAR 08 BCIS  
 H= 23 42 47.0  
 LAT = 48.3 N  
 LONG= 9.0 E  
 DEPTH= 3 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 23 42 45.4, 48 DEG 19.5 MIN N, 8 DEG 55.0 MIN E  
 DEPTH=3 KM, ML=2.7

MSS +E Z ST PG 23 42 48.7 0.5 2.57 4 10 0.1 10.6 190.6  
 -I E ST SG 23 42 51.1 0.5 3.07 9  
 STU +I Z BE PG 23 42 56.0 0.4 1.94 7 50 0.5 195.3 15.2  
 E E BE SG 23 43 02.3  
 BUH -I Z GT PG 23 42 58.8 9 70 0.6 125.9 306.5  
 KRL E Z ST PG 23 43 04.8 2 90 0.8 151.1 331.5  
 HEI +E Z ST PG 23 43 08.7 0.4 1.61 4 120 1.1 170.6 350.8  
 +E E ST SG 23 43 22.9 0.4 2.48 9  
 FUR +E Z SL SN 23 43 35.0 1.5 1.11 2 170 1.5 275.9 94.2  
 GRF E Z BE PN 23 43 19.1 220 2.0 227.2 45.5  
 -I Z BE PG 23 43 24.3 0.4 1.35 4  
 E R BE SG 23 43 49.-

MAR 09 BCIS  
 H= 06 58 13.0  
 LAT = 48.3 N  
 LONG= 9.1 E  
 DEPTH= 3 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
H= 06 58 10.9, 48 DEG 18.0 MIN N, 9 DEG 04.0 MIN E DEPTH=3 KM, ML=2.8										
MSS	+E Z ST	PG	06 58 14.5	0.6	2.22	3	20	0.1	29.8	209.9
	-I E ST	SG	06 58 16.5	0.6	3.78	9				
STU	+E Z BE	PG	06 58 21.3	0.3	1.67	2	50	0.5	189.9	9.8
	E E BE	SG	06 58 27.5							
BUH	-I Z GT	PG	06 58 24.2			9	70	0.7	123.6	304.2
KRL	-E Z ST	PG	06 58 29.0			3	90	0.8	148.2	328.7
FUR	+E Z SL	PN	06 58 42.0	1.2	1.60	2	160	1.5	276.0	94.4
GRF	E Z BE	PN	06 58 44.5				220	2.0	226.2	44.6
	-I Z BE	PG	06 58 49.6	0.4	1.46	5				
	E R BE	SG	06 59 14.2							

MAR 09 USCGS  
H= 11 35 30.4  
LAT = 48.1 N  
LONG= 148.3 E  
DEPTH=388 KM  
MAGNITUDE= 5.1  
NORTHWEST OF KURIL ISLANDS

GRF	-E Z HE	P	11 46 35.1	0.9	1.70	7	8430	75.8	28.1	332.9
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MAR 09 USCGS  
H= 12 30 26.7  
LAT = 20.2 S  
LONG= 177.9 W  
DEPTH=520 KM  
MAGNITUDE= 4.3  
FIJI ISLANDS REGION

GRF	E Z BE	PKP	12 49 19.-				16640	149.7	17.1	348.3
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MAR 09 USCGS  
H= 13 08 16.5  
LAT = 36.2 N  
LONG= 10.6 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
NORTH ATLANTIC OCEAN

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
MAR 09 BCIS H= 13 08 16.0 LAT = 36.2 N LONG= 10.6 W NO DEPTH COMPUTED NO MAGNITUDE COMPUTED NORTH ATLANTIC OCEAN										
BNS	E Z FS	P	13 12 48.-				2170	19.5	227.5	35.1
FUR	+E Z SL	PP	13 13 05.0	1.5	1.43	4	2230	20.0	241.2	46.5
	-E Z SL	-	13 13 31.0	1.5	1.52	3				
	-E Z SL	-	13 14 17.0	1.5	1.67	7				
GRF	-I Z BE	P	13 12 59.3	0.7	1.28	3	2310	20.8	237.6	42.7
	+I Z BE	-	13 13 01.0	0.8	1.47	6				

MAR 09 USCGS  
H= 13 47 59.4  
LAT = 4.1 S  
LONG= 135.5 E  
DEPTH= 14 KM  
MAGNITUDE= 5.5  
WEST NEW GUINEA REGION

GRF	E Z BE	PP	14 07 47.6				12760	114.8	65.2	323.8
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FUR	+E Z SL	APKP	14 06 55.0	1.5	1.43	2	12830	115.4	65.9	322.2
	+E Z SL	-	14 07 28.0	1.5	1.52	5				
	-E Z SL	PP	14 07 42.0	1.2	2.00	5				
	-E Z SL	APP	14 07 55.0	1.5	1.52	5				
	+E Z SL	XPP	14 08 01.0	1.8	1.94	2				
	Z SL	MAXIMUM	14 56 00.0	22.0	3.94					

BNS	E Z FS	PKP	14 08 09.-			2	12960	116.5	61.0	326.3
	E Z FS	-	14 13 38.-							
	E FS	-	14 17 24.-							
	E Z SL	-	14 20 22.-							
	E Z SL	-	14 33 14.-							
	E SL	LR	14 45 10.-	40.0						

MAR 09 USCGS  
H= 14 26 18.9  
LAT = 31.2 N  
LONG= 141.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
SOUTH OF HONSHU, JAPAN

GRF	E Z BE	P	14 39 15.-				9800	88.1	40.8	330.3
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MAR 1969		TIME		PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
STATION ABBREV.	COMP. SEIS.	H	M S				KM	DEG.	STAT.	EPIC.
MAR 09 USCGS H= 14 39 04.2 LAT = 4.1 S LONG= 135.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.5 WEST NEW GUINEA REGION										
GRF	+E Z BE	PP	14 58 47.7	2.8	2.62	3	12770	114.8	65.0	323.8
FUR	-E Z SL	PP	14 58 51.0	1.4	1.82	8	12840	115.4	65.8	322.3
MAR 10 NO DETERMINATION OF EPICENTER										
FUR	+I Z SL	P	05 17 39.0	1.3	2.33	9				
MAR 10 USCGS H= 05 35 15.1 LAT = 22.8 N LONG= 121.0 E DEPTH= 37 KM MAGNITUDE= 4.8 TAIWAN REGION										
GRF	E Z BE	P	05 47 48.-				9440	84.9	60.6	322.2
FUR	+E Z SL	P	05 47 51.0	1.8	1.87	6	9520	85.6	60.6	320.8
MAR 10 USCGS H= 06 54 17.6 LAT = 5.6 S LONG= 147.2 E DEPTH=206 KM MAGNITUDE= 5.8 EAST NEW GUINEA REGION										
HLG	E Z X	PKP	07 12 48.8	1.0	2.58	4	13510	121.5	49.5	333.3
GRF	-E Z BE	PKP	07 12 49.7	0.8	1.17	2	13630	122.6	55.1	327.6
	+E Z BE	PP	07 14 27.8	1.0	1.61	4				
FUR	+E Z SL	PKP	07 12 52.0	1.8	2.27	9	13720	123.4	56.0	326.1
	-E Z SL	-	07 13 28.0	1.6	1.43	4				
	+E Z SL	APKP	07 13 43.0	1.5	1.43	4				
	+E Z SL	-	07 14 37.0	1.2	2.00	5				
	+I Z SL	PP	07 14 40.0	1.6	1.82	3				
	+E Z SL	APP	07 15 31.0	1.6	1.43	1				
BNS	+E Z SL	SKP	07 16 09.0	1.6	1.60	2				
	E Z FS	PKP	07 12 53.3	1.0	2.23	4	13770	123.9	50.4	330.7
	E Z FS	-	07 14 37.-							

MAR 1969		TIME		PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
STATION ABBREV.	COMP. SEIS.	H	M S				KM	DEG.	STAT.	EPIC.
	E FS	-	07 14 42.5							
STU	-E Z HE	PKP	07 12 52.5	1.0	2.69	3	13810	124.2	53.6	327.7
MAR 10 USCGS H= 09 56 49.1 LAT = 35.9 N LONG= 10.4 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 3.9 NORTH ATLANTIC OCEAN										
USCGS= FELT AT CASABLANCA.										
GRF	-E Z HE	P	10 01 32.5	1.0	1.38	2	2320	20.9	237.0	42.1
MAR 10 USCGS H= 19 04 02.9 LAT = 36.4 N LONG= 71.0 E DEPTH=201 KM MAGNITUDE= 5.1 AFGHANISTAN-USSR BORDER REGION										
USCGS= FELT AT KABUL.										
GRF	-E Z BE	P	19 11 57.0	0.9	1.38	3	4950	44.5	83.9	306.8
FUR	-E Z SL	P	19 11 57.0	1.0	2.11	4	4970	44.7	82.4	304.7
MAR 10 NO DETERMINATION OF EPICENTER										
BNS	E N X	-	20 54 13.5							
	E Z X	-	20 54 23.-							
MAR 11 NO DETERMINATION OF EPICENTER										
GRF	E Z HE	Pg	15 02 15.9	0.4	0.80	2				
	E R BE	Sg	15 02 23.6	0.6	1.05	3				
FUR	-E Z SL	-	15 03 04.0	1.2	1.90	4				
	+E Z SL	-	15 03 10.0	1.6	1.52	1				
	-E Z SL	-	15 03 19.0	1.6	1.52	3				

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MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 11 USCGS  
H= 15 33 49.7  
LAT = 25.7 N  
LONG= 123.8 E  
DEPTH=186 KM  
MAGNITUDE= 4.8  
NORTHEAST OF TAIWAN

FUR -E Z SL P 15 46 55.0 1.5 1.60 3 9440 84.9 56.8 321.6

MAR 11  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 18 23 41.-

MAR 11 USCGS  
H= 19 20 28.1  
LAT = 41.3 N  
LONG= 79.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
KIRGIZ-SINKIANG BORDER REGION

GRF -E Z BE P 19 28 54.8 0.8 1.35 3 5230 47.0 72.9 304.5

MAR 12  
NO DETERMINATION OF EPICENTER

GRF -E Z BE PG 12 54 22.1 0.4 0.92 3  
E Z BE - 12 54 33.8  
E Z BE SG 12 54 57.4

MAR 12  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 14 55 03.0 1.8 1.70 2  
-E Z SL - 14 55 11.0 1.6 1.52 3  
+E Z SL - 14 55 19.0 1.6 1.52 3

MAR 12 USCGS  
H= 17 43 34.1  
LAT = 28.3 N  
LONG= 53.1 E  
DEPTH= 16 KM  
MAGNITUDE= 4.5  
SOUTHERN IRAN

FUR -E Z SL P 17 50 52.0 1.0 2.11 2 4200 37.8 106.4 313.3

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MAR 1969

MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 13  
NO DETERMINATION OF EPICENTER

FUR +E Z SL - 05 56 38.0 1.5 1.52 3

MAR 13  
NO DETERMINATION OF EPICENTER

GRF +I Z BE PN 13 02 43.1 0.4 1.31 6  
-I Z BE PG 13 02 45.0 0.5 1.35 3  
E Z BE SG 13 03 08.-

MAR 13  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 13 31 19.-

MAR 13 USCGS  
H= 18 43 48.9  
LAT = 63.5 N  
LONG= 129.0 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
NORTHWEST TERRITORIES, CANADA

GRF E Z BE P 18 54 15.- 7000 62.9 341.1 27.8

FUR +E Z SL P 18 54 25.0 1.0 1.99 3 7160 64.4 341.4 28.3  
+E Z SL AP 18 54 31.0 1.6 1.52 3  
+E Z SL AP CP 18 55 04.0 1.6 1.52 5  
-E Z SL XPCP 18 55 10.0 1.6 1.43 2

MAR 13 USCGS  
H= 22 19 37.2  
LAT = 8.0 S  
LONG= 80.1 W  
DEPTH= 38 KM  
MAGNITUDE= 5.4  
OFF COAST OF NORTHERN PERU

FUR -E Z SL XP 22 33 18.0 1.5 1.60 3 10770 96.8 265.6 42.4

MAR 14 USCGS  
H= 08 47 16.3  
LAT = 12.9 W  
LONG= 86.8 W  
DEPTH=178 KM  
MAGNITUDE= 5.6  
NICARAGUA





STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
BNS	+I Z FS	P	08	59	19.9				9180	82.5	281.2	39.5
	+I Z FS	AP	09	00	04.3	3.0	2.76					
	E FS	-	09	02	39.5							
	E Z SL	-	09	09	13.-							
	E Z SL	LR	09	21	00.-							
	SL	MAXIMUM	09	26	00.-	48.0						
BUH	+E Z GT	P	08	59	25.5	1.3	1.64	4	9300	83.7	282.2	41.6
STU	+E Z HE	P	08	59	28.1	1.5	2.11	2	9370	84.3	282.9	41.4
GRF	+E Z BE	P	08	59	34.4	1.4	2.00	3	9490	85.3	284.4	40.2
	+E Z BE	-	08	59	51.0	1.0	1.70	2				
	E Z BE	PP	09	03	03.0							
FUR	-E Z SL	P	08	59	38.0				9540	85.8	284.5	41.7
	-E Z SL	PCP	08	59	39.0	1.2	1.90	1				
	-I Z SL	AP	09	00	22.0	3.0	2.92	8				

MAR 14  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	11	27	58.0	1.6	1.52	5				
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MAR 14 NFB  
H= 14 05 00.6  
LAT = 47.6 N  
LONG= 11.1 E  
DEPTH= 0 KM  
NO MAGNITUDE COMPUTED  
GERMANY

FUR = QUARRYBLAST AT ESCHENLOHE (BAVARIA), SHOTPOINT NO. 1  
H= 14 05 00.59, 47 DEG 37 MIN 54 SEC N, 11 DEG 8 MIN 41 SEC E  
HEIGHT= 700 METERS, CHARGE= 7.7 TONS.

FUR	-E Z SL	PG	14	05	13.0	1.5	1.52	5	60	0.5	189.5	9.4
	-I Z SL	PB	14	05	16.0	1.0	2.41	1				
	-I Z SL	SG	14	05	19.0	0.8	2.52	6				
	+E Z SL	SB	14	05	22.0	1.5	1.52	2				
	+E Z SL	SN	14	05	30.0	1.5	1.43	4				
	Z SL	MAXIMUM	14	06	00.0	1.6	3.47					
GRF	+I Z BE	PN	14	05	35.2				230	2.1	181.3	1.3
	E Z BE	PG	14	05	42.0	0.4	0.81	2				
	E Z BE	-	14	06	00.1							
	+E R BE	SN	14	06	08.8	0.4	0.98	3				
	E R BE	SG	14	06	13.0	0.6	1.24	2				

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
MAR 15	USCGS											
	H=		11	44	42.3							
	LAT =											
	LONG=											
	DEPTH=											
	MAGNITUDE=											
	CERAM SEA											
FUR	+E Z SL	PP	12	03	41.0	1.5	1.52	5	12090	108.7	72.6	320.2
	-E Z SL	APP	12	03	49.0	1.5	1.52	5				

MAR 15 USCGS  
H= 13 35 35.3  
LAT = 51.2 N  
LONG= 179.1 W  
DEPTH= 46 KM  
MAGNITUDE= 5.6  
ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	+I Z FS	P	13	47	30.5	1.5	2.00	4	8680	78.0	4.0	356.0
GRF	-I Z BE	P	13	47	36.8	1.2	2.31	9	8790	79.1	6.6	353.2
STU	-E Z BE	P	13	47	41.9	1.0	2.10	4	8910	80.1	5.3	354.5
BUH	+E Z GT	P	13	47	42.7	1.2	1.75	5	8930	80.3	4.6	355.1
FUR	-E Z SL	P	13	47	45.0	1.3	2.19	9	8960	80.6	6.6	353.0
	-E Z SL	-	13	48	46.0	1.5	1.60	3				

MAR 16 USCGS  
H= 14 10 52.2  
LAT = 9.8 N  
LONG= 57.8 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
CARLSBERG RIDGE

FUR	-E Z SL	P	14	20	19.0	1.5	1.60	6	6070	54.6	118.7	323.4
	+E Z SL	AP	14	20	24.0	1.5	1.43	4				

MAR 16 USCGS  
H= 15 54 17.2  
LAT = 36.5 N  
LONG= 142.7 E  
DEPTH= 40 KM  
MAGNITUDE= 5.4  
NEAR EAST COAST OF HONSHU, JAPAN

GRF	+E Z HE	P	16	06	36.8	1.2	1.80	3	9150	82.3	36.4	330.6
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
BNS	+I Z FS	P	16	06	38.4	3.0	2.30	2	9200	82.7	33.7	333.5
	E Z FS	-	16	07	28.-							
	E FS	LR	16	39	36.-							
FUR	-E Z SL	P	16	06	42.0	1.5	2.00	9	9290	83.5	36.3	329.6
	+E Z SL	APCP	16	06	55.0	1.6	1.72	8				
	-I Z SL	XPCP	16	07	01.0	1.5	1.82	2				
	+E Z SL	APP	16	10	05.0	1.5	1.60	3				
STU	+I Z BE	P	16	06	43.7	1.0	2.10	6	9320	83.8	34.9	331.1
BUH	+E Z GT	P	16	06	46.0	1.7	1.86	4	9370	84.3	34.3	331.6

MAR 17 USCGS  
H= 00 56 06.2  
LAT = 17.7 S  
LONG= 179.9 E  
DEPTH=614 KM  
MAGNITUDE= 5.4  
FIJI ISLANDS

GRF	+E Z BE	PKP	01	14	42.0	0.8	1.20	2	16320	146.8	20.0	346.5
STU	+E Z BE	PKP	01	14	44.3	1.1	2.03	4	16470	148.1	17.0	348.3
FUR	+E Z SL	PKP	01	14	45.0	1.6	1.82	5	16480	148.2	21.0	345.4
	+E Z SL	PKP2	01	14	50.0	1.8	2.10	3				

MAR 17  
NO DETERMINATION OF EPICENTER

BNS	+I Z FS	P	00	59	40.0	1.2	2.04	5				
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MAR 17 USCGS  
H= 01 30 07.3  
LAT = 17.6 S  
LONG= 179.8 E  
DEPTH=615 KM  
MAGNITUDE= 4.8  
FIJI ISLANDS

BNS	-I Z FS	PKP	01	48	41.0	1.0	1.95	4	16260	146.2	12.7	351.6
GRF	-E Z BE	PKP	01	48	42.8	0.7	1.32	4	16310	146.7	20.1	346.5
STU	+E Z BE	PKP	01	48	41.0	1.0	1.57	2	16460	148.0	17.0	348.3
FUR	+E Z SL	P	01	48	45.0	1.5	1.78	5	16470	148.1	21.0	345.4

MAR 17  
NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
BNS	E Z X	-	15	38	44.5							
	E E X	SG	15	38	57.3	1.0	2.00	2				
	E X	-	15	38	57.8	1.0	2.08					
FUR	+E Z SL	-	15	40	10.0	1.5	1.60	6				

MAR 17  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16	33	27.0	1.6	1.43	4				
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MAR 18 USCGS  
H= 03 25 31.8  
LAT = 21.4 S  
LONG= 171.1 E  
DEPTH= 15 KM  
MAGNITUDE= 5.5  
LOYALTY ISLANDS REGION

GRF	-E Z BE	PKP	03	45	17.6					16410	147.5	36.7	335.4
	-E Z BE	-	03	46	02.0								
BNS	+E Z FS	PKP	03	45	13.7	1.5	2.18	5	16440	147.9	29.0	340.8	
FUR	+E Z SL	PKP	03	45	20.0	1.8	2.27	5	16540	148.7	38.3	333.6	
	-I Z SL	PKP2	03	45	25.0	1.8	2.40	3					
	-I Z SL	XPKP	03	45	32.0	1.5	2.00	4					
	+I Z SL	APKP	03	45	38.0	1.5	2.00	3					
	-I Z SL	-	03	45	53.0	1.5	1.97	4					
	-I Z SL	-	03	45	57.0	1.5	2.00	4					
STU	+E Z BE	PKP	03	45	19.0	1.0	1.86	2	16580	149.1	34.3	336.5	
KRL	E Z ST	PKP	03	45	26.-	1.0	2.19	2	16590	149.1	32.7	337.5	
BUH	-E Z GT	PKP	03	45	22.8	2.0	2.10	3	16620	149.5	32.7	337.4	

MAR 18 USCGS  
H= 03 32 50.8  
LAT = 21.4 S  
LONG= 170.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
LOYALTY ISLANDS REGION

GRF	+E Z BE	PKP	03	52	32.6					16400	147.5	36.9	335.2
	-E Z BE	-	03	53	12.8								
BNS	+E Z FS	PKP	03	52	31.5	2.5	2.40	4	16440	147.8	29.3	340.6	
	E Z FS	LR	04	42	00.-								
	FS	MAXIMUM	04	56	00.-	21.0							



STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	+E Z SL	PKP	03	52	35.0	1.5	1.52	5	16530	148.7	38.5	333.4
	-I Z SL	-	03	52	37.0	2.0	2.45	5				
	+I Z SL	XPKP	03	52	44.0	1.4	2.32	9				
STU	+E Z BE	PKP	03	52	36.0	1.0	1.67	3	16570	149.0	34.5	336.3
KRL	E Z ST	PKP	03	52	34.-				16580	149.1	33.0	337.4
BUH	E Z GT	PKP	03	52	36.-	2.0	1.96	2	16620	149.4	33.0	337.2

MAR 18  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	03	38	08.0	1.5	1.52	4				
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MAR 18 USCGS  
H= 03 41 22.7  
LAT = 15.2 S  
LONG= 173.5 W  
DEPTH= 39 KM  
MAGNITUDE= 5.1  
TONGA ISLANDS

GRF	-E Z BE	PKP	04	01	11.6	0.8	1.25	2	16170	145.4	8.0	354.6
BUH	E Z GT	PKP	04	01	15.-				16300	146.6	3.0	358.0
FUR	+E Z SL	PKP	04	01	14.0	1.6	1.82	9	16340	146.9	8.4	354.2
	+E Z SL	PKP2	04	01	22.0	1.6	1.52	5				
	+I Z SL	APKP	04	01	26.0	1.6	1.82	3				

MAR 18 USCGS  
H= 05 09 09.6  
LAT = 47.1 N  
LONG= 153.9 E  
DEPTH= 35 KM (GEOPHYSICIST)  
MAGNITUDE= 4.4  
KURIL ISLANDS

GRF	E Z BE	P	05	21	08.9	0.8	1.25	2	8710	78.3	25.0	336.3
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MAR 18  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	10	56	52.0							
	E R BE	Sg	10	57	06.0							

MAR 18  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	12	50	07.6							
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
MAR 18 USCGS H= 16 16 39.6 LAT = 44.1 N LONG= 151.0 E DEPTH= 44 KM MAGNITUDE= 5.7 KURIL ISLANDS REGION												
GRF	-E Z BE	P	16	28	47.2	0.9	1.51	4	8910	80.2	28.2	334.8
BNS	+I Z FS	P	16	28	45.5	1.2	1.95	4	8920	80.2	25.6	337.7
FUR	+E Z SL	P	16	28	54.0	1.6	1.82	9	9060	81.5	28.1	334.0
	+E Z SL	PCP	16	28	59.0	1.5	1.72	2				
	-I Z SL	XPCP	16	29	11.0	1.2	2.20	2				
	-I Z SL	-	16	29	31.0	1.5	1.90	3				
STU	-E Z BE	P	16	28	54.0	1.5	2.20	2	9070	81.6	26.8	335.6
BUH	-E Z GT	P	16	28	56.-	1.5	1.74	3	9110	82.0	26.1	336.1

MAR 18  
NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	17	04	54.2							
	E R HE	Sg	17	05	18.-							

MAR 18 USCGS  
H= 22 35 30.2  
LAT = 24.0 S  
LONG= 176.0 W  
DEPTH= 68 KM  
MAGNITUDE= 5.4  
SOUTH OF FIJI ISLANDS

BNS	E Z FS	PKP	22	55	26.-			2	17010	153.0	6.3	355.6
GRF	E Z HE	PKP	22	55	26.-				17100	153.7	15.0	349.4
FUR	-E Z SL	PKP	22	55	38.0	2.0	2.12	7	17260	155.2	16.0	348.4

MAR 18 USCGS  
H= 23 30 41.2  
LAT = 50.7 N  
LONG= 156.7 E  
DEPTH= 90 KM (GEOPHYSICIST)  
MAGNITUDE= 4.7  
KURIL ISLANDS

GRF	-I Z BE	P	23	42	19.3	1.1	1.80	5	8420	75.7	21.8	337.7
FUR	-E Z SL	P	23	42	27.0	1.2	2.20	8	8570	77.1	21.7	337.1

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MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 19  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 11 21 07.0 1.2 2.00 5

MAR 19  
NO DETERMINATION OF EPICENTER

GRF +E Z RE PG 12 53 53.2 0.4 1  
-E R BE SG 12 54 11.6 0.4 0.89 2  
E Z HE - 12 54 32.6

MAR 19 USCGS  
H= 13 59 22.7  
LAT = 28.8 N  
LONG= 128.2 E  
DEPTH=136 KM  
MAGNITUDE= 5.8  
RYUKYU ISLANDS

HAM E Z ZX P 14 11 31.- 1 9140 82.2 51.3 327.9  
GRF -E Z HE P 14 11 39.1 1.1 1.80 5 9340 84.0 51.9 324.4  
+I Z BE XP 14 12 21.2 1.2 2.04 3  
+E Z HE PP 14 15 33.8 1.6 2.16 2  
FUR +E Z SL P 14 11 44.0 1.9 2.75 9 9440 84.9 51.8 323.2  
-I Z SL - 14 12 00.0 1.2 2.30 2  
+E Z SL AP 14 12 19.0 1.5 1.72 2  
-I Z SL APCP 14 12 26.0 1.5 2.43 3  
-I Z SL XP 14 12 39.0 1.5 1.67 2  
+I Z SL XPCP 14 12 46.0 1.5 1.94 4  
BNS -I Z FS P 14 11 44.5 2.0 2.55 8 9470 85.1 49.0 327.1  
E Z FS AP 14 12 25.-  
E FS PP 14 15 05.-  
E Z SL - 14 15 34.-  
E Z SL S 14 21 59.-  
E SL - 14 22 04.-  
KHL -E Z ST P 14 11 48.8 2.0 2.70 5 9540 85.8 49.8 325.0  
BUH E Z GT P 14 11 49.5 2.5 2.20 3 9580 86.1 49.6 324.9

MAR 19  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 14 08 27.0 1.5 1.52 5

MAR 19  
NO DETERMINATION OF EPICENTER

BNS E Z X - 15 46 01.- 2

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MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

E E X SG 15 46 09.3  
E X - 15 46 19.-

MAR 19  
NO DETERMINATION OF EPICENTER

GRF E Z HE - 16 21 45.-

MAR 20 USCGS  
H= 08 17 41.9  
LAT = 31.3 N  
LONG= 114.3 W  
DEPTH= 20 KM  
MAGNITUDE= 5.4  
GULF OF CALIFORNIA

BNS +I Z FS P 08 30 09.2 2.0 2.32 5 9260 83.3 312.6 32.9  
E Z FS - 08 30 22.-  
E FS LR 08 56 00.-  
BUH E Z GT P 08 30 19.- 1.5 1.74 2 9490 85.3 313.6 34.1  
GRF -E Z HE P 08 30 21.7 0.8 1.48 2 9560 86.0 315.7 32.0  
FUR -E Z SL P 08 30 28.0 1.5 1.43 4 9690 87.1 315.8 33.0  
+E Z SL PCP 08 30 32.0 1.5 1.73 3

MAR 20 USCGS  
H= 08 23 00.8  
LAT = 31.4 N  
LONG= 114.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.1  
GULF OF CALIFORNIA

BNS E Z FS P 08 35 25.5 2 9240 83.1 312.6 33.0

MAR 20 NFB  
H= 15 05 01.3  
LAT = 51.0 N  
LONG= 9.2 E  
DEPTH= 0 KM  
NO MAGNITUDE COMPUTED  
GERMANY

NFB = QUARRYBLAST AT DORHEIM (HESSEN), SHOTPOINT NO. 13  
H= 15 05 01.33, 50 DEG 57 MIN 53 SEC N, 9 DEG 13 MIN 7 SEC E  
HEIGHT= 320 METERS, CHARGE= 7.8 TONS.

TNS I P 15 05 20.0 100 0.9 33.2 213.8

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MAR 1969

MAR 1969		MAR 1969										
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S		PER.	LOG. AMP.	S/N	DISTANCE KM DEG.		AZIMUTH STAT. EPIC.		
BNS	E Z FS	SG	15	05	44.5			2	140	1.3	89.2	270.7
	E Z FS	-	15	06	06.5							
GRF	E Z HE	PG	15	05	34.-				200	1.8	315.6	134.1
	E R HE	SG	15	06	03.-							

 MAR 20  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	16	11	00.0	1.6	1.82	9				
	Z SL	MAXIMUM	16	11	44.0	1.5	2.30					

 MAR 20 USCGS  
 H= 16 18 56.4  
 LAT = 8.7 N  
 LONG= 127.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.1  
 PHILIPPINE ISLANDS REGION

GRF	E Z BE	P	16	32	38.8	1.2	1.80	3	11080	99.7	64.3	323.7
FUR	+E Z SL	P	16	32	42.0	1.5	2.37	9	11150	100.3	64.6	322.3
	+I Z SL	PCP	16	32	46.0	1.5	2.43	1				
	-E Z SL	PP	16	36	48.0	1.5	1.82	3				
	+I Z SL	-	16	36	55.0	1.5	1.82	6				
	-E Z SL	APP	16	37	00.0	1.5	2.00	5				
STU	-E Z BE	P	16	32	45.0	1.1	2.07	4	11260	101.3	62.8	323.5
	-E E BE	S	16	43	22.0	11.2	3.29	5				
BNS	-I Z FS	P	16	32	46.4	1.5	2.28	6	11270	101.4	60.8	326.1
	E Z FS	-	16	36	49.-							
	E FS	PP	16	37	00.-							
	E Z SL	SP	16	45	47.-							
	E Z SL	-	16	56	25.-							
	E SL	LR	17	08	00.-							
KRL	E Z ST	P	16	32	48.2	1.3	2.45	2	11300	101.6	62.1	323.9
BUH	-E Z GT	P	16	32	49.-	1.5	1.91	4	11330	101.9	62.1	323.7

 MAR 20 USCGS  
 H= 20 46 55.9  
 LAT = 27.5 S  
 LONG= 66.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 SOUTH INDIAN OCEAN

FUR	-E Z SL	P	20	59	53.0	1.7	1.82	8	10000	89.9	133.5	326.8
	-E Z SL	XPCP	21	00	08.0	1.7	1.76	2				

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MAR 1969

MAR 1969

MAR 1969		MAR 1969										
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S		PER.	LOG. AMP.	S/N	DISTANCE KM DEG.		AZIMUTH STAT. EPIC.		
MAR 20	USCGS											
	H= 23 38 40.6											
	LAT = 8.8 N											
	LONG= 127.3 E											
	DEPTH= 33 KM (NORMAL)											
	MAGNITUDE= 5.1											
	PHILIPPINE ISLANDS REGION											
FUR	-E Z SL	P	23	52	27.0	1.8	2.05	9	11150	100.3	64.5	322.3

 MAR 21 USCGS  
 H= 03 05 11.9  
 LAT = 40.3 N  
 LONG= 143.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	03	17	25.5	1.2	1.80	3	9020	81.1	34.8	331.0
BNS	+E Z FS	P	03	17	27.1	1.4	1.90	3	9060	81.5	32.2	333.9
	-I Z FS	-	03	17	36.8							
	E FS	-	03	18	54.4							
FUR	-E Z SL	P	03	17	32.0	1.0	2.51	9	9150	82.3	34.7	330.1
	-E Z SL	PCP	03	17	36.0	1.6	1.60	3				
	+E Z SL	AP	03	17	41.0	1.8	2.10	5				
	+E Z SL	APCP	03	17	43.0	1.7	1.82	8				
	+E Z SL	XPCP	03	17	51.0	1.8	2.10	9				
STU	+E Z HE	P	03	17	33.1	1.0	1.94	4	9190	82.6	33.4	331.6
BUH	E Z GT	P	03	17	35.5			2	9230	83.0	32.7	332.1

 MAR 21  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	03	21	48.8	2.0	2.00	2				
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 MAR 21 USCGS  
 H= 03 53 42.4  
 LAT = 31.2 N  
 LONG= 114.3 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 GULF OF CALIFORNIA

BNS	-E Z FS	P	04	06	06.6	2.9	2.57	4	9260	83.3	312.6	32.9
	E Z FS	-	04	06	20.5							
	E FS	-	04	08	39.-							
KRL	+E Z WH	P	04	06	18.5			5	9480	85.2	313.7	33.8



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MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BUH	E Z GT	P	04 06 17.3			3	9490 85.4	313.6 34.1
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GRF	+E Z BE	P	04 06 23.0	2.0	2.41	2	9570 86.0	315.7 32.0
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MAR 21 USCGS  
H= 04 12 26.8  
LAT = 31.2 N  
LONG= 114.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
GULF OF CALIFORNIA

FUR	-E Z SL	P	04 25 11.0	2.0	1.88	4	9690 87.1	315.7 33.1
	-E Z SL	AP	04 25 19.0	1.4	1.52	4		

MAR 21 USCGS  
H= 04 56 20.3  
LAT = 31.2 N  
LONG= 114.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.4  
GULF OF CALIFORNIA

BNS	-E Z FS	P	05 08 45.5	1.5	2.36	8	9260 83.3	312.6 32.9
	E Z FS	-	05 09 17.-					

BUH	E Z GT	P	05 08 56.5			4	9490 85.4	313.5 34.1
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GRF	E Z BE	P	05 08 59.-				9570 86.1	315.6 32.0
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FUR	-E Z SL	P	05 09 05.0	1.6	1.43	4	9690 87.2	315.7 33.1
	-I Z SL	-	05 09 10.0	1.3	2.27	6		

MAR 21 USCGS  
H= 05 39 56.4  
LAT = 31.4 N  
LONG= 114.3 W  
DEPTH= 29 KM  
MAGNITUDE= 4.8  
GULF OF CALIFORNIA

BNS	E Z FS	P	05 52 17.-			2	9250 83.2	312.7 32.9
	-E Z FS	-	05 52 25.0					

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MAR 1969

MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAR 21 USCGS  
H= 05 59 19.1  
LAT = 31.4 N  
LONG= 114.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
GULF OF CALIFORNIA

BNS	-E Z FS	P	06 11 42.8	1.5	1.85	2	9240 83.1	312.6 33.0
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FUR	-E Z SL	P	06 12 06.0	1.6	1.52	5	9670 87.0	315.7 33.1
	E SL	MAXIMUM	06 31 00.0	15.0	3.70			

MAR 21 USCGS  
H= 06 05 16.8  
LAT = 31.3 N  
LONG= 114.0 W  
DEPTH= 19 KM  
MAGNITUDE= 4.8  
GULF OF CALIFORNIA

BNS	E Z FS	P	06 17 45.5			2	9240 83.1	312.5 33.0
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FUR	-E Z SL	XP	06 18 16.0	1.5	1.30	1	9670 87.0	315.6 33.2
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MAR 21 USCGS  
H= 06 34 22.2  
LAT = 31.1 N  
LONG= 114.3 W  
DEPTH= 4 KM  
MAGNITUDE= 5.5  
GULF OF CALIFORNIA

BNS	-E Z FS	P	06 46 53.-	4.0		2	9270 83.4	312.6 32.9
	+I Z FS	-	06 46 53.4	2.6	2.77	9		
	E FS	LR	07 15 00.-					

KKL	+E Z WH	P	06 47 03.4			6	9480 85.3	313.6 33.8
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BUH	+E Z GT	P	06 47 03.4			3	9500 85.4	313.5 34.1
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GRF	E Z BE	P	06 47 07.-	2.4			9570 86.1	315.6 32.0
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MAR 21  
NO DETERMINATION OF EPICENTER

BNS	E Z X	-	06 39 49.-					
	E E X	Sg	06 39 57.-					
	E X	-	06 40 14.-					

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MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 21 USCGS  
 H= 07 21 11.6  
 LAT = 31.3 N  
 LONG= 114.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 GULF OF CALIFORNIA

BNS	E Z FS	P	07 33 36.9	3.0	2.43	3	9250	83.2	312.6	32.9
KRL	+E Z WH	P	07 33 49.0			4	9470	85.1	313.7	33.8
GRF	E Z BE	P	07 33 53.-				9560	86.0	315.6	32.0
FUR	-E Z SL	P	07 33 56.0	1.5	1.30	3	9680	87.1	315.7	33.1

MAR 21 USCGS  
 H= 08 38 52.7  
 LAT = 31.1 N  
 LONG= 114.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 GULF OF CALIFORNIA

BNS	E Z FS	P	08 51 18.7			2	9270	83.3	312.5	32.9
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MAR 21 USCGS  
 H= 08 56 15.8  
 LAT = 31.2 N  
 LONG= 114.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 GULF OF CALIFORNIA

BNS	E Z FS	P	09 08 41.0			2	9260	83.3	312.6	32.9
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MAR 21 USCGS  
 H= 10 10 10.7  
 LAT = 31.2 N  
 LONG= 114.3 W  
 DEPTH= 5 KM  
 MAGNITUDE= 5.4  
 GULF OF CALIFORNIA

BNS	+I Z FS	P	10 22 41.0	1.9	2.36	6	9270	83.3	312.6	32.9
BUH	E Z GT	P	10 22 51.-			3	9490	85.4	313.5	34.1
GRF	+E Z BE	P	10 22 55.0				9570	86.1	315.6	32.0
FUR	-E Z SL	P	10 23 00.0	1.3	1.88	5	9700	87.2	315.7	33.0

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MAR 1969

MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 21 USCGS  
 H= 12 05 16.3  
 LAT = 49.6 N  
 LONG= 155.6 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

GRF	-E Z HE	P	12 17 03.1	1.8	2.08	2	8500	76.4	22.9	337.1
FUR	-E Z SL	P	12 17 09.0	1.5	1.11	2	8650	77.8	22.8	336.5
	-E Z SL	XPCP	12 17 27.0	1.5	1.52	3				

MAR 21 USCGS  
 H= 12 24 00.1  
 LAT = 31.2 N  
 LONG= 114.2 W  
 DEPTH= 14 KM  
 MAGNITUDE= 5.1  
 GULF OF CALIFORNIA

BNS	E Z FS	P	12 36 28.4	1.9	2.04	3	9260	83.3	312.6	32.9
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MAR 21 BCIS  
 H= 15 22 00.0  
 LAT = 48.3 N  
 LONG= 9.1 E  
 DEPTH= 2 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 15 21 57.1, 48 DEG 17.5 MIN N, 9 DEG 04.0 MIN E  
 DEPTH=1-2 KM, ML=2.5

MSS	-I E ST	PG	15 22 01.7	0.7	3.41	9	20	0.1	29.8	209.9
STU	E Z BE	PG	15 22 09.5	0.5	1.70	3	50	0.5	189.9	9.8
BUH	-I Z GT	P	15 22 10.8			9	70	0.7	123.6	304.2
FEL	-E Z ST	PG	15 22 13.8	0.5	1.85	9	90	0.8	58.6	239.3
	E Z ST	SG	15 22 25.3	0.5	3.21	9				
HEI	-E Z ST	PG	15 22 20.3	0.4	1.73	3	120	1.1	168.2	348.5
	+I E ST	SG	15 22 35.3	0.5	2.24	9				
GRF	-I Z HE	PG	15 22 36.3	3.4	0.98	2	220	2.0	226.2	44.6
	E R HE	SG	15 23 02.0							

MAR 21  
 NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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FUR -E Z SL - 15 47 19.0 1.5 1.52 5

MAR 21  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 15 57 33.4  
E R BE SG 15 57 56.0

MAR 21 USCGS  
H= 15 57 42.0  
LAT = 31.2 N  
LONG = 114.3 W  
DEPTH = 2 KM  
MAGNITUDE = 5.1  
GULF OF CALIFORNIA

BNS -I Z FS P 16 10 13.5 1.8 2.04 3 9260 83.3 312.6 32.9

MAR 21 USCGS  
H= 18 00 20.6  
LAT = 31.1 N  
LONG = 114.3 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.2  
GULF OF CALIFORNIA

BNS +I Z FS P 18 12 46.6 2.8 2.18 2 9270 83.4 312.6 32.9

MAR 22 USCGS  
H= 01 50 49.5  
LAT = 18.0 S  
LONG = 174.1 W  
DEPTH = 95 KM (GEOPHYSICIST)  
MAGNITUDE = 4.7  
TONGA ISLANDS

BNS E Z FS PKP 02 10 23.- 2 16360 147.1 2.3 358.5

FUR +E Z SL PKP 02 10 31.0 1.6 1.43 4 16640 149.6 10.2 352.9  
-E Z SL XPKP 02 11 05.0 1.6 1.52 3

MAR 22  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 03 53 13.0 1.4 1.40 3  
+E Z SL - 03 53 48.0 1.8 1.80 5

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAR 22 USCGS  
H= 04 52 32.6  
LAT = 38.9 N  
LONG = 70.6 E  
DEPTH = 8 KM  
MAGNITUDE = 5.3  
AFGHANISTAN-USUR BORDER REGION

GRF -I Z BE P 05 00 33.5 1.2 1.94 9 4760 42.8 81.2 304.7  
E Z BE PP 05 02 13.-  
E Z BE - 05 04 04.-

FUR +E Z SL P 05 00 34.0 1.6 1.82 3 4790 43.0 79.6 302.4  
-I Z SL PP 05 02 17.0 2.0 2.12 4  
-I Z SL PCP 05 02 20.0 1.0 1.82 5  
+E Z SL - 05 02 26.0 1.8 1.94 7  
+I Z SL PPP 05 02 53.0 1.8 1.87 1  
-E Z SL - 05 03 06.0 2.0 2.05 3

STU -E Z BE P 05 00 44.4 1.0 1.80 4 4920 44.3 78.9 303.7

KRL +E Z ST P 05 00 48.5 1.7 2.43 2 4980 44.7 78.7 304.2

BUH +E Z GT P 05 00 49.- 1.2 1.88 5 5000 44.9 78.3 303.7

BNS -E Z FS P 05 00 51.5 1.5 1.90 3 5020 45.2 79.8 307.1  
E Z FS - 05 01 05.4  
E FS - 05 02 50.-

MAR 22 USCGS  
H= 05 43 57.5  
LAT = 15.5 S  
LONG = 176.1 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.4  
FIJI ISLANDS REGION

BNS E Z FS PKP 06 03 29.5 1.0 1.60 2 16070 144.5 5.5 356.4  
E Z FS - 06 03 33.5

GRF +I Z BE PKP 06 03 37.2 1.2 1.97 6 16170 145.4 12.6 351.6

BUH E Z GT PKP 06 03 39.- 1.7 3 16320 146.7 7.7 354.7

FUR -E Z SL PKP 06 03 40.0 1.7 1.92 9 16330 146.9 13.2 350.9  
+I Z SL PKP2 06 03 44.0 1.7 2.22 2





MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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MAR 22 USCGS  
 H= 07 25 35.6  
 LAT = 31.4 N  
 LONG= 114.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 GULF OF CALIFORNIA

BNS	E Z FS	P	07 38 02.-	1.4	1.70	2	9240	83.1	312.5 33.0
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MAR 22  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	07 53 13.3	0.5	0.95	3			
	E R BE	SG	07 53 30.4						

MAR 22 USCGS  
 H= 12 13 15.8  
 LAT = 15.1 S  
 LONG= 173.9 W  
 DEPTH= 46 KM  
 MAGNITUDE= 4.6  
 TONGA ISLANDS

GRF	E Z BE	PKP	12 33 03.-				16150	145.3	8.6 354.2
FUR	-E Z SL	PKP	12 33 08.0	1.9	1.99	3	16320	146.8	9.1 353.7
	-E Z SL	APKP	12 33 18.0	1.5	1.52	5			

MAR 22 USCGS  
 H= 13 31 07.8  
 LAT = 16.5 S  
 LONG= 177.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

BNS	+E Z FS	PKP	13 50 44.2	1.5	1.95	3	16160	145.4	8.0 354.7
GRF	+E Z BE	PKP	13 50 47.0	1.0	1.48	2	16250	146.1	15.2 349.8
FUR	+E Z SL	PKP	13 50 51.0	1.5	1.72	8	16410	147.6	15.9 349.0
	-I Z SL	PKP2	13 50 55.0	1.4	1.92	2			
	-E Z SL	APKP	13 51 10.0	1.4	1.76	2			

MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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MAR 22 USCGS  
 H= 13 36 06.1  
 LAT = 43.4 N  
 LONG= 147.4 E  
 DEPTH= 40 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

GRF	+E Z HE	P	13 48 12.1	1.0	1.42	3	8860	79.7	30.9 332.8
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MAR 22 USCGS  
 H= 15 24 14.5  
 LAT = 15.3 S  
 LONG= 176.3 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 FIJI ISLANDS REGION

FUR	-E Z SL	PKP	15 43 53.0	1.8	1.70	2	16310	146.6	13.4 350.8
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MAR 22  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	16 46 45.5			2			
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MAR 22 USCGS  
 H= 18 00 54.5  
 LAT = 39.1 N  
 LONG= 28.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 TURKEY

USCGS= SLIGHT DAMAGE AT DEMIRCI.

FUR	+E Z SL	-	18 04 29.0	1.6	1.52	5	1720	15.5	119.6 311.6
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MAR 23 USCGS  
 H= 11 49 35.6  
 LAT = 6.2 N  
 LONG= 77.8 W  
 DEPTH= 24 KM  
 MAGNITUDE= 5.0  
 NEAR WEST COAST OF COLOMBIA

BNS	+I Z FS	P	12 01 55.4	2.0	2.00	3	9120	82.0	270.0 39.5
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STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 23 USCGS  
 H= 12 01 01.5  
 LAT = 1.0 N  
 LONG= 26.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 CENTRAL MID-ATLANTIC RIDGE

FUR +E Z SL P 12 10 46.0 1.5 1.30 3 6340 57.0 226.2 28.9  
 +I Z SL - 12 11 25.0 1.8 2.00 8  
 GRF E Z BE P 12 10 52.- 6450 58.0 225.5 27.6

MAR 23 USCGS  
 H= 15 39 01.1  
 LAT = 31.5 N  
 LONG= 114.1 W  
 DEPTH= 16 KM  
 MAGNITUDE= 4.7  
 GULF OF CALIFORNIA

BNS E Z FS P 15 51 31.0 1.4 1.60 2 9230 83.0 312.7 33.0

MAR 23 USCGS  
 H= 21 08 42.6  
 LAT = 39.2 N  
 LONG= 28.5 E  
 DEPTH= 12 KM  
 MAGNITUDE= 5.6  
 TURKEY

MAR 23 BCIS  
 H= 21 08 41.0  
 LAT = 39.1 N  
 LONG= 28.4 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= 1100 HOUSES DESTROYED IN DEMIRCI, GORDES, SINDIRGI AND SURROUNDING VILLAGES, FELT THROUGHOUT WESTERN ANATOLIA AND AT ISTANBUL.

FUR +E Z SL P 21 12 19.0 2.0 2.28 5 1710 15.3 119.6 311.5  
 +I Z SL - 21 12 23.0 2.0 2.58 3  
 -I Z SL - 21 12 26.0 1.8 2.84 3  
 +I Z SL PP 21 12 30.0 1.3 2.58 2  
 -I Z SL - 21 12 44.0 1.5 2.22 2  
 -I Z SL - 21 12 52.0 2.0 2.67 2  
 +I Z SL - 21 13 22.0 1.5 2.37 7  
 +E Z SL S 21 15 11.0 2.0 2.45 2  
 -I Z SL SS 21 15 24.0 1.5 2.12 3  
 +E Z SL - 21 16 02.0 2.5 2.71 3  
 Z SL MAXIMUM 21 18 00.0 4.2 4.10

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

GHF -E Z HE P 21 12 30.3 1.6 1.97 3 1800 16.2 124.1 316.2  
 E Z HE PP 21 12 58.-  
 E Z HE - 21 17 24.-

HOF / WI MAXIMUM 21 18 00.0 10.0 3.78 1800 16.2 127.2 318.9

STU E Z HE P 21 12 34.7 1.3 1.75 4 1870 16.8 117.6 311.0  
 +E Z HE S 21 15 50.2 20.0 3.86 9

BUH -E Z GT P 21 12 45.5 2 1930 17.4 115.6 309.8  
 -I Z GT - 21 12 50.0 1.8 2.83 8

KRL +E Z ST P 21 12 49.4 2.0 3.23 7 1940 17.4 116.9 311.0

TNS E P 21 12 54.0 2000 18.0 120.3 314.5  
 E S 21 16 23.0

BNS -I Z FS P 21 13 07.1 2.5 3.04 9 2120 19.0 120.0 315.2  
 I Z FS PP 21 13 32.0  
 I FS S 21 16 45.- 17.0  
 E Z SL - 21 19 06.-  
 E Z SL LR 21 19 42.-  
 SL MAXIMUM 21 21 30.- 12.0

HAM -I Z SX P 21 13 07.2 4 2130 19.1 130.9 324.5  
 E Z SX X 21 13 12.- 9

HLG -I Z X P 21 13 22.7 2.0 2.92 2 2280 20.5 128.7 323.8

MAR 24 USCGS  
 H= 01 59 30.6  
 LAT = 39.1 N  
 LONG= 28.5 E  
 DEPTH= 6 KM  
 MAGNITUDE= 5.0  
 TURKEY

MAR 24 BCIS  
 H= 01 59 31.0  
 LAT = 39.1 N  
 LONG= 28.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

FUR -I Z SL P 02 03 14.0 1.6 1.90 9 1710 15.4 119.7 311.6  
 -E Z SL PP 02 03 24.0 1.4 1.82 8  
 -E Z SL PPP 02 03 33.0 1.6 1.60 3  
 +E Z SL S 02 06 00.0 1.6 1.60 6  
 Z SL MAXIMUM 02 09 40.0 9.0 3.78

GRF +E Z BE P 02 03 20.2 1.6 2.11 4 1800 16.2 124.2 316.3

STU E Z HE P 02 03 24.8 1.3 1.54 2 1880 16.9 117.7 311.1

BUH E Z GT P 02 03 37.- 2.0 2.26 3 1930 17.4 115.7 309.9



STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
KRL	E Z ST	P	02	03	34.-	1.8	2.58	4	1940	17.4	117.0	311.1
BNS	-E Z FS	P	02	03	54.3	2.5	2.40	4	2120	19.1	120.1	315.3
	E Z FS	S	02	07	34.-							
	FS	MAXIMUM	02	12	14.-	14.0						
HAM	E Z ZX	P	02	03	54.-			3	2130	19.2	131.0	324.6
	E Z ZX	PP	02	04	11.-			3				

MAR 24  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	07	23	46.-							
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MAR 24  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	08	51	33.0	1.6	1.43	4				
	-E Z SL	-	08	51	41.0	1.7	1.62	5				

MAR 24 USCGS  
H= 09 33 29.7  
LAT = 35.8 N  
LONG = 10.4 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.3  
NORTH ATLANTIC OCEAN

FUR	-E Z SL	P	09	38	03.0	1.4	1.76	7	2250	20.2	240.4	45.8
	+E Z SL	PPP	09	38	34.0	1.8	1.80	5				
	-E Z SL	-	09	38	38.0	1.8	1.70	4				
GRF	E Z BE	P	09	38	12.2	0.7	1.03	2	2330	21.0	236.8	42.0

MAR 24  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	11	34	07.0	1.7	1.52	2				
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MAR 24 USCGS  
H= 11 34 31.2  
LAT = 39.2 N  
LONG = 28.6 E  
DEPTH = 15 KM  
MAGNITUDE = 4.6  
TURKEY

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
MAR 24 BCIS H= 11 34 32.0 LAT = 39.2 N LONG = 28.6 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY												
FUR	+E Z SL	PPP	11	38	24.0	1.5	1.30	3	1710	15.4	119.2	311.2

MAR 24 USCGS  
H= 11 54 15.5  
LAT = 27.5 N  
LONG = 33.8 E  
DEPTH = 21 KM  
MAGNITUDE = 5.2  
UNITED ARAB REPUBLIC

MAR 24 BCIS  
H= 11 54 13.0  
LAT = 27.5 N  
LONG = 33.9 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
UNITED ARAB REPUBLIC

FUR	+E Z SL	P	12	00	01.0	1.8	1.94	7	3010	27.1	131.5	325.6
	+E Z SL	AP	12	00	08.0	1.4	1.76	7				
	-E Z SL	XP	12	00	12.0	1.4	1.76	7				
	-E Z SL	PP	12	00	41.0	1.5	1.67	7				
	+E Z SL	PPP	12	00	57.0	1.3	2.03	4				
	-E Z SL	-	12	01	20.0	1.6	1.67	4				
GRF	-E Z SL	PCP	12	03	25.0	1.6	1.67	4				
	E Z BE	P	11	59	44.4				3130	28.1	133.6	328.0

MAR 24 USCGS  
H= 12 50 50.5  
LAT = 27.6 N  
LONG = 33.8 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.8  
UNITED ARAB REPUBLIC

MAR 24 BCIS  
H= 12 50 46.0  
LAT = 27.5 N  
LONG = 33.9 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
UNITED ARAB REPUBLIC

FUR	-E Z SL	P	12	56	32.0	1.0	1.99	3	3000	27.0	131.5	325.6
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
-E Z SL	AP		12 57 11.0	2.0	1.97	5		
-E Z SL	PPP		12 57 27.0	1.0	2.21	3		
+E Z SL	-		12 57 53.0	2.0	2.12	7		
GRF	E Z BE	P	12 57 00.-				3120 28.1	133,6 328.0
MAR 24 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	13 19 15.0	1.5	1.43	4		
MAR 24 NO DETERMINATION OF EPICENTER								
BNS	-I Z FS	P	22 00 46.0					
MAR 25 USCGS H= 13 13 01.4 LAT = 23.5 S LONG= 177.8 W DEPTH=291 KM MAGNITUDE= 5.4 SOUTH OF FIJI ISLANDS								
GRF	-I Z BE	PKP	13 32 39.1	1.2	2.10	3	17010 153.0	18.4 347.1
MAR 25 USCGS H= 13 21 10.4 LAT = 39.0 N LONG= 28.5 E DEPTH= 23 KM NO MAGNITUDE COMPUTED TURKEY								
MAR 25 BCIS H= 13 21 09.0 LAT = 39.2 N LONG= 28.4 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY								
FUR	+E Z SL	P	13 24 53.0	1.5	1.52	5	1720 15.4	119.9 311.8
	-E Z SL	PP	13 25 01.0	1.8	2.00	2		
	-E Z SL	PPP	13 25 07.0	2.0	2.32	2		
	+I Z SL	XPP	13 25 14.0	1.5	2.52	5		
	+I Z SL	-	13 25 23.0	1.5	2.48	3		
	-I Z SL	S	13 27 37.0	1.3	2.53	2		
	-I Z SL	SS	13 27 54.0	1.8	2.14	9		
	+I Z SL	SSS	13 28 12.0	2.0	2.28	2		
	-I Z SL	-	13 28 29.0	2.0	2.28	2		
	Z SL	MAXIMUM	13 31 40.0	8.0	4.74			

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
GRF	+E Z HE	P	13 25 02.3	1.2	1.75	3	1810 16.3	124.4 316.5
	-I Z BE	PP	13 25 18.0	1.2	1.80	4		
	-I Z BE	PPP	13 25 23.0	1.6	2.81	9		
	E R BE	-	13 30 10.-					
BUH	E Z GT	P	13 25 15.-	1.5	1.60	2	1940 17.5	116.0 310.1
KHL	+E Z WH	P	13 25 37.0			7	1950 17.5	117.2 311.3
BNS	E Z FS	P	13 25 34.-			2	2130 19.1	120.3 315.5
HLG	-I Z X	P	13 26 09.7	1.4	2.84	3	2290 20.6	128.9 324.0
	E X	P	13 26 10.-	1.4	2.85	2		
	+I N X	P	13 26 10.1	1.6	2.83	3		
MAR 25 USCGS H= 13 21 32.4 LAT = 39.2 N LONG= 28.4 E DEPTH= 23 KM MAGNITUDE= 5.6 TURKEY								
MAR 25 BCIS H= 13 21 35.0 LAT = 39.2 N LONG= 28.4 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY								
USCGS= FURTHER DAMAGE AT SINDIRGI AND DEMIRCI.								
STU	+E Z HE	P	13 25 10.0	2.0	2.51	2	1860 16.8	117.7 311.1
TNS	I	P	13 25 41.0				1990 17.9	120.5 314.6
	E	S	13 29 08.0					
BNS	I Z FS	P	13 25 54.7	4.4	3.63	9	2110 19.0	120.2 315.3
	E Z FS	PP	13 26 41.-					
	E FS	S	13 29 36.-					
HAM	-I Z SX	P	13 25 55.-			2	2120 19.1	131.1 324.6
	+E N WI	S	13 29 30.-			8		
MAR 25 USCGS H= 14 18 50.8 LAT = 39.2 N LONG= 28.4 E DEPTH= 23 KM MAGNITUDE= 4.9 TURKEY								



STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 25 BCIS  
 H= 14 18 47.0  
 LAT = 39.1 N  
 LONG= 28.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

BCIS = FELT WIDELY.

FUR	-E Z SL	P	14 22 32.0	1.6	1.52	5	1700	15.3	119.8	311.6
	Z SL	MAXIMUM	14 28 00.0	4.0	2.85					
GRF	+E Z BE	P	14 22 41.9	1.2	1.80	3	1790	16.1	124.3	316.3
BUH	E Z GT	P	14 22 52.-			2	1920	17.3	115.8	309.9

MAR 25  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	15 19 03.0	1.5	1.52	3				
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MAR 25  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	15 29 57.2	0.4	1.11	3				
	-E R BE	SG	15 30 22.4	0.5	1.12	3				

MAR 25 USCGS  
 H= 16 13 27.2  
 LAT = 39.1 N  
 LONG= 28.3 E  
 DEPTH= 17 KM  
 MAGNITUDE= 4.7  
 TURKEY

FUR	+E Z SL	XP	16 17 10.0	1.5	1.30	3	1700	15.3	120.2	312.0
	+E Z SL	-	16 17 24.0	1.5	1.30	3				
	+E Z SL	-	16 17 36.0	1.5	1.30	3				
GRF	E Z BE	P	16 17 19.4				1800	16.2	124.7	316.7
BNS	-E Z FS	P	16 17 50.0			2	2120	19.0	120.6	315.6

MAR 25  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	17 21 43.4							
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STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 26 USCGS  
 H= 03 31 24.2  
 LAT = 39.1 N  
 LONG= 28.4 E  
 DEPTH= 23 KM  
 MAGNITUDE= 4.5  
 TURKEY

MAR 26 BCIS  
 H= 03 31 23.0  
 LAT = 39.0 N  
 LONG= 28.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

FUR	+E Z SL	XP	03 35 10.0	1.5	1.30	3	1710	15.4	119.9	311.8
	-E Z SL	PPP	03 35 26.0	2.3	1.93	2				
	-E Z SL	XPP	03 35 30.0	2.1	1.81	1				
	-E Z SL	-	03 35 37.0	1.5	1.30	2				

MAR 26  
 NO DETERMINATION OF EPICENTER

FUR	E SL	-	08 34 30.0	1.2	2.05	5				
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MAR 26  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	09 03 57.0	1.7	1.62	5				
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MAR 26 USCGS  
 H= 15 27 40.6  
 LAT = 16.2 N  
 LONG= 122.2 E  
 DEPTH= 36 KM  
 MAGNITUDE= 5.0  
 LUZON, PHILIPPINE ISLANDS

FUR	-E Z SL	XP	15 40 52.0	1.8	1.40	2	10160	91.3	63.8	321.3
	-E Z SL	-	15 41 26.0	1.8	1.70	4				

MAR 26  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15 47 47.0	1.6	1.43	4				
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MAR 26  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	PG	19 24 51.9			2				
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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E Z FS	Sg		19 24 57.-					
E FS	-		19 25 04.-					

MAR 27 USCGS  
 H= 04 46 26.1  
 LAT = 3.9 N  
 LONG= 128.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.7  
 NORTH OF HALMAHERA

GRF	E Z BE	PP	05 04 44.-	1.5		2	11590 104.2	66.2 323.5
FUR	-E Z SL	PP	05 04 50.0	1.5	1.43	4	11650 104.8	66.6 322.0
BNS	E Z FS	P	05 00 36.-			2	11790 106.0	62.5 325.8
	E Z FS	PP	05 05 14.-					
	E FS	-	05 14 30.-					

MAR 27  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	06 05 48.0	1.5	1.52	5		
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MAR 27  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	06 13 58.0	1.5	1.67	7		
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MAR 27 USCGS  
 H= 11 19 29.3  
 LAT = 39.0 N  
 LONG= 71.9 E  
 DEPTH= 37 KM  
 MAGNITUDE= 4.9  
 TADZHIK SSR

GRF	E Z BE	P	11 27 33.-	0.8	1.34	2	4850 43.6	80.3 304.8
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MAR 27 USCGS  
 H= 12 41 35.9  
 LAT = 4.8 N  
 LONG= 127.5 E  
 DEPTH= 32 KM  
 MAGNITUDE= 6.1  
 TALAUD ISLANDS

HAM	E Z ZX	P	12 55 32.5			1	11350 102.1	64.6 327.2
	E Z WZ	PP	12 59 50.-			3		
	E E WI	SKS	13 06 37.-			2		

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	P	12 55 37.-	3.0	2.78	2	11450 102.9	66.4 323.3
FUR	-E Z SL	P	12 55 36.0	1.2	1.90	4	11510 103.5	66.8 321.9
	-I Z SL	-	12 55 39.0	2.3	2.41	4		
	+I Z SL	AP	12 55 50.0	1.7	1.62	2		
	-E Z SL	XP	12 55 52.0	1.9	1.91	2		
	+E Z SL	-	12 56 14.0	3.0	2.65	4		
	+E Z SL	PP	12 59 48.0	2.0	2.45	2		
	-I Z SL	APP	13 00 04.0	1.7	2.32	1		
	+I Z SL	XPP	13 00 10.0	2.0	2.67	1		
	+E Z SL	PPP	13 02 07.0	1.5	1.72	4		
	-E Z SL	SP	13 09 01.0	2.0	2.28	3		
	Z SL	MAXIMUM	13 34 00.0	50.0	4.44			
	Z SL	MAXIMUM	13 48 30.0	22.0	5.32			

BNS	+E Z FS	P	12 55 40.5	2.5	2.28	4	11650 104.7	62.8 325.6
	E Z FS	PP	12 59 48.5	2.8	2.64			
	E FS	SP	13 09 29.-					
	E Z SL	-	13 15 09.-					
	E Z SL	LR	13 32 09.-	55.0				
	SL	MAXIMUM	13 48 00.-	20.0				

KRL	E Z WH	P	12 55 45.-			2	11660 104.9	64.3 323.5
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BUH	E Z GT	P	12 55 43.-				11690 105.1	64.2 323.2
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MAR 27  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 44 28.0	1.8	1.80	5		
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MAR 27  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	14 15 02.0	1.5	1.11	2		
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MAR 28 USCGS  
 H= 01 48 30.4  
 LAT = 38.6 N  
 LONG= 28.4 E  
 DEPTH= 9 KM  
 MAGNITUDE= 6.0  
 TURKEY

MAR 28 BCIS  
 H= 01 48 29.0  
 LAT = 38.6 N  
 LONG= 28.4 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= 53 KILLED AND HEAVY DAMAGE AT ALASEHIR-SARIGOL AND KIRAZ, FELT THROUGHOUT WESTERN ANATOLIA AND AT ISTANBUL.



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTC.
MAG.= 6.4 (PAS), 6 1/4 (BRK), 6 1/2 - 6 3/4 (GOL).										
FUR	+E Z SL	P	01 52 14.0	2.0	2.81	9	1750	15.7	121.2	313.1
	-I Z SL	PP	01 52 25.0	1.8	3.04	1				
	+I Z SL	-	01 52 43.0	1.8	1.70	1				
	+I Z SL	S	01 55 20.0	2.0	3.01	4				
	Z SL	MAXIMUM	01 58 00.0	16.0	4.86					
	Z SL	MAXIMUM	01 59 30.0	6.0	4.62					
GRF	-E Z BE	P	01 52 25.4	2.0	2.41	3	1840	16.6	125.5	317.6
HOF	S WI	MAXIMUM	01 58 00.0	30.0	5.40		1850	16.6	128.6	320.2
STU	E Z BE	P	01 52 30.7	1.5	3.12	9	1910	17.2	119.1	312.5
FEL	-E Z ST	P	01 52 24.0	1.7	1.91	9	1950	17.5	114.5	308.6
FEL	-E Z ST	P	01 52 36.9				1950	17.5	114.5	308.6
BUH	-E Z GT	P	01 52 37.-				1970	17.7	117.2	311.2
	+I Z GT	-	01 52 41.0	1.6	2.04	4				
KRL	-E Z WH	P	01 52 40.-				1980	17.8	118.4	312.3
	+I Z WH	-	01 52 43.5	1.5	3.00	4				
HEI	-E Z ST	P	01 52 39.6	4.8	4.02	9	1980	17.8	120.0	313.8
TNS	E	P	01 52 48.0				2040	18.4	121.7	315.8
	E	S	01 56 24.0							
BNS	-I Z FS	P	01 52 59.5	4.0	4.04	9	2160	19.4	121.3	316.4
	+I Z FS	S	01 56 47.5	12.0						
	E FS	LR	01 58 14.-	44.0						
	Z SL	MAXIMUM	02 02 00.-	16.0						
HAM	-I Z SX	P	01 53 00.5			5	2180	19.6	132.0	325.5
	E Z WZ	XP	01 53 04.-			5				
	-I N WI	PP	01 53 17.-			9				
	-E N WI	S	01 56 48.-			9				
HLG	-I Z X	P	01 53 17.3	1.8	3.27	9	2330	21.0	129.7	324.8
	-I E X	P	01 53 17.6	1.4	2.98	6				
	+I N X	P	01 53 17.3	1.8	2.89	4				

MAR 28 USCGS  
 H= 10 02 16.7  
 LAT = 39.1 N  
 LONG= 28.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 TURKEY

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTC.
MAR 28 BCIS H= 10 02 17.0 LAT = 39.1 N LONG= 28.4 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY										
FUR	-E Z SL	P	10 05 44.0	1.4	1.52	4	1710	15.3	119.8	311.7
	-E Z SL	PP	10 05 57.0	1.8	1.87	3				
	Z SL	MAXIMUM	10 11 10.0	4.0	3.85					
GRF	-E Z BE	P	10 06 06.1	0.8	1.34	2	1800	16.2	124.3	316.4
BUH	-E Z GT	P	10 06 20.2	1.6	1.80	5	1930	17.4	115.9	309.9
KRL	E Z WH	P	10 06 20.-			3	1940	17.4	117.1	311.1
BNS	E Z FS	P	10 06 37.5	2.5	2.08	3	2120	19.1	120.2	315.4
	E Z FS	S	10 10 18.-							
	FS	MAXIMUM	10 14 56.-	9.0						
MAR 28 USCGS H= 15 19 40.4 LAT = 31.5 N LONG= 114.3 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.0 GULF OF CALIFORNIA										
BNS	E Z FS	P	15 32 03.5	2.5	2.17	3	9240	83.1	312.8	32.9
	E Z FS	LR	15 59 00.-							
	FS	MAXIMUM	16 10 00.-	18.0						
MAR 28 NO DETERMINATION OF EPICENTER										
HLG	E Z X	-	15 22 02.-	1.0	2.40	3				
	-I E X	-	15 22 04.8	0.8	2.74	4				
	+I N X	-	15 22 06.6	1.0	2.72	5				

MAR 28 NFB  
H= 16 05 00.8  
LAT = 50.6 N  
LONG= 7.3 E  
DEPTH= 0 KM  
NO MAGNITUDE COMPUTED  
GERMANY

NFB = QUARRYBLAST AT MEHRBERG/LINZ, SHOTPOINT NO. 14  
H= 16 05 00.76, 50 DEG 36 MIN 32 SEC N; 7 DEG 17 MIN 51 SEC E  
HEIGHT= 400 METERS, CHARGE= 3.9 TONS.

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MAR 1969 MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

BNS +E Z X PG 16 05 08.5 0.7 2.47 5 40 0.4 167.7 347.8  
 E E X SG 16 05 14.5  
 E X - 16 05 15.0

TNS E P 16 05 20.0 90 0.8 298.1 117.2  
 I S 16 05 31.0

MAR 28  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 22 18 35.0 1.3 1.89 3

MAR 28 USCGS  
 H= 22 55 59.1  
 LAT = 57.8 N  
 LONG= 32.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 NORTH ATLANTIC OCEAN

BNS +E Z FS P 23 01 12.7 2660 23.9 302.0 89.2  
 E Z FS - 23 01 17.0 2.5 2.11  
 E FS LR 23 07 00.7 36.0

MAR 29 USCGS  
 H= 01 43 39.0  
 LAT = 40.0 N  
 LONG= 15.2 E  
 DEPTH=310 KM  
 MAGNITUDE= 4.6  
 SOUTHERN ITALY

MAR 29 BCIS  
 H= 01 43 38.0  
 LAT = 39.9 N  
 LONG= 15.1 E  
 DEPTH=320 KM  
 NO MAGNITUDE COMPUTED  
 SOUTHERN ITALY

FUR -I Z SL P 01 45 40.0 1.2 2.08 6 960 8.6 159.6 342.3  
 -E Z SL - 01 46 37.0 1.5 1.52 5  
 Z SL MAXIMUM 01 48 00.0 3.0 2.52

STU +E Z BE P 01 45 53.1 0.8 1.89 7 1080 9.7 151.7 335.9

BUH -I Z GT P 01 45 57.3 0.6 1.51 8 1110 10.0 147.5 332.4

GRF +E Z BE P 01 45 58.4 0.5 1.18 2 1120 10.1 162.3 345.1  
 E Z BE - 01 46 02.2

KRL E Z ST P 01 46 04.4 3 1130 10.2 149.3 334.0

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MAR 1969

MAR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

TNS I P 01 46 13.0 1250 11.2 152.5 337.3

BNS +I Z FS P 01 46 26.0 1.0 2.50 9 1360 12.3 149.8 335.6

MAR 29  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 02 26 12.0 1.8 1.80 5  
 -E Z SL - 02 26 18.0 1.4 1.52 4

MAR 29 USCGS  
 H= 09 15 54.1  
 LAT = 12.0 N  
 LONG= 41.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.8  
 ETHIOPIA

MAR 29 BCIS  
 H= 09 16 00.0  
 LAT = 12.0 N  
 LONG= 41.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ETHIOPIA

USCGS= 24 KILLED AND 165 INJURED AT SARDO, SARDO COMPLETELY DESTROYED.  
 MAG.= 6 1/4 = 6 1/2 (GOL).

BCIS = DESERT OF DANAKIL, CRACKS AND FISSURES AT THE SURFACE.

FUR +E Z SL P 09 23 58.0 1.7 2.09 8 4880 43.9 135.3 331.2  
 +I Z SL - 09 24 03.0 1.8 1.87 1  
 -I Z SL AP 09 24 07.0 1.5 2.08 4  
 -E Z SL PP 09 25 42.0 1.5 1.90 9  
 -I Z SL APP 09 25 49.0 1.5 2.00 8  
 +I Z SL XPP 09 25 56.0 2.0 2.58 2  
 +E Z SL PPP 09 26 23.0 2.0 2.32 2  
 -I Z SL - 09 26 36.0 1.4 2.22 4  
 +I Z SL - 09 26 47.0 2.0 2.48 2  
 -E Z SL SP 09 30 38.0 2.7 2.50 7  
 Z SL MAXIMUM 09 47 10.0 13.0 4.08

GRF -E Z BE P 09 24 06.6 2.2 2.39 2 5000 45.0 136.3 332.7

STU -E Z BE P 09 24 09.1 3.0 3.12 5 5040 45.3 133.2 330.5  
 +E E BE S 09 30 52.0 20.0 3.95 9

BUH -I Z GT P 09 24 13.5 2.2 2.53 7 5080 45.7 131.9 329.7

KRL -E Z WH P 09 24 15.7 6 5100 45.8 132.4 330.2

BNS -I Z FS P 09 24 30.0 3.0 3.06 9 5310 47.7 132.3 331.5  
 E Z FS PP 09 26 20.7  
 E FS S 09 31 31.7  
 E Z SL SS 09 35 14.7





STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
	E Z SL	LR	09 42 00.-						
	SL	MAXIMUM	09 49 00.-	18.0					
HAM	E Z WZ	P	09 24 35.-			2	5370	48.3	137.2 335.4
	E Z WZ	PP	09 26 32.-			3			
	E N WI	S	09 31 42.-						
HLG	E Z X	P	09 24 44.-	2.0	2.34	3	5520	49.6	135.2 335.0
	E E X	P	09 24 52.-	2.0	2.61	2			

MAR 29 USCGS  
 H= 11 04 47.9  
 LAT = 12.0 N  
 LONG= 41.3 E  
 DEPTH= 4 KM  
 MAGNITUDE= 5.6  
 ETHIOPIA

MAR 29 BCIS  
 H= 11 04 58.0  
 LAT = 12.0 N  
 LONG= 41.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ETHIOPIA

FUR	+E Z SL	P	11 12 57.0	2.0	2.45	8	4880	43.9	135.1 331.1
	-I Z SL	PP	11 14 43.0	1.8	1.10	3			
	+E Z SL	-	11 15 35.0	1.6	1.83	9			
	E SL	MAXIMUM	11 31 30.0	25.0	3.99				
GRF	-E Z BE	P	11 13 06.0	1.8	2.18	2	5010	45.0	136.1 332.6
BUH	-E Z GT	P	11 13 12.0	2.0	2.13	5	5090	45.8	131.8 329.7
KRL	E Z ST	P	11 13 13.5			2	5100	45.9	132.3 330.1
BNS	E Z FS	P	11 13 27.3	2.3	2.30	5	5310	47.8	132.2 331.4
	E Z FS	-	11 13 53.5						
	E FS	-	11 16 01.-						
	E Z SL	-	11 26 10.-						
	Z SL	MAXIMUM	11 36 00.-	20.0					
HAM	E Z ZX	P	11 13 33.-			2	5380	48.3	137.0 335.4
	E Z ZX	-	11 13 45.-			3			
	E Z WZ	PPP	11 16 14.-						

MAR 29 USCGS  
 H= 11 07 30.0  
 LAT = 12.0 N  
 LONG= 41.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 ETHIOPIA

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
FUR	-I Z SL	P	11 15 40.0	1.8	2.10	2	4880	43.9	135.2 331.2
	-I Z SL	AP	11 15 46.0	2.0	2.28	2			
	-E Z SL	PP	11 17 23.0	2.0	2.28	2			
	-E Z SL	APP	11 17 30.0	2.4	2.52	2			
	-E Z SL	XPCP	11 17 43.0	2.0	2.28	2			
	-E Z SL	PPP	11 17 58.0	2.0	2.28	2			
	-E Z SL	-	11 18 33.0	1.4	1.76	7			
	-E Z SL	-	11 19 17.0	2.4	2.52	2			
	E SL	MAXIMUM	11 34 00.0	25.0	3.90				
BNS	I Z FS	P	11 18 01.0	2.5	2.45	6	5310	47.7	132.3 331.4

MAR 29 USCGS  
 H= 12 34 03.3  
 LAT = 20.9 S  
 LONG= 174.1 W  
 DEPTH= 35 KM  
 MAGNITUDE= 4.5  
 TONGA ISLANDS

BNS	E Z FS	PKP	12 54 03.5			2	16680	150.0	2.4 358.4
FUR	-E Z SL	PKP	12 53 57.0	1.5	1.11	2	16960	152.5	10.9 352.2

MAR 29  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	-	12 58 21.6	1.0	1.78	5			
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MAR 29 USCGS  
 H= 13 08 11.4  
 LAT = 11.9 N  
 LONG= 41.5 E  
 DEPTH= 4 KM  
 MAGNITUDE= 5.1  
 ETHIOPIA

FUR	-E Z SL	P	13 16 22.0	1.4	1.62	5	4900	44.1	134.9 331.0
BUH	-E Z GT	P	13 16 36.5	2.0	1.80	3	5100	45.9	131.6 329.5
BNS	I Z FS	P	13 16 52.8	2.0	1.95	3	5330	47.9	131.9 331.3
	I Z FS	-	13 16 57.9						

MAR 29 USCGS  
 H= 13 48 57.6  
 LAT = 10.4 N  
 LONG= 56.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 CARLSBERG RIDGE



MAR 1969 MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-I Z SL	P	13 58 16.0	1.3	2.53	9	5950 53.5	119.1 323.5
	-I Z SL	Ap	13 58 23.0	1.5	2.21	2		
	+I Z SL	PCP	13 59 25.0	1.4	1.92	2		
	-E Z SL	App	14 00 27.0	1.4	1.82	4		
STU	E Z BE	P	13 58 26.1	1.5	1.88	2	6120 55.0	117.5 323.4
BUH	+E Z GT	P	13 58 30.5				6180 55.5	116.5 322.9
HAM	E Z SX	P	13 58 41.-			3	6330 56.9	121.0 328.6
BNS	+I Z FS	P	13 58 43.5	1.6	2.18	7	6360 57.2	116.8 325.0
	E Z FS	-	13 59 07.0					
	E FS	PP	14 01 52.-					
	E Z SL	S	14 06 32.-					
	E Z SL	LR	14 17 00.-					
	SL	MAXIMUM	14 18 00.-	46.0				

MAR 30 USCGS  
H= 02 53 41.1  
LAT = 8.1 N  
LONG= 38.8 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
CENTRAL MID-ATLANTIC RIDGE

BNS	E Z FS	P	03 03 26.-				6350 57.1	238.0 32.8
FUR	+E Z SL	P	03 03 33.0	1.5	1.12	2	6460 58.0	243.5 37.2
	+E Z SL	-	03 03 38.0	1.5	1.42	4		
	-E Z SL	-	03 04 03.0	1.5	1.52	5		

MAR 30 USCGS  
H= 07 55 07.5  
LAT = 4.4 N  
LONG= 124.0 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.4  
NORTH OF HALMAHERA

FUR	-E Z SL	PP	08 13 30.0	1.5	1.43	4	11570 104.1	66.7 321.9
	-E Z SL	APP	08 13 41.0	1.5	1.52	5		
	-E Z SL	XPP	08 13 47.0	1.5	1.43	4		

MAR 30  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	10 00 04.0	1.8	1.88	6		
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MAR 1969 MAR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
MAR 31	USCGS							
	H= 07 15	54.4						
	LAT =	27.7 N						
	LONG=	34.0 E						
	DEPTH=	33 KM (NORMAL)						
	MAGNITUDE=	6.0						
	RED SEA							
MAR 31	BCIS							
	H= 07 15	51.0						
	LAT =	27.7 N						
	LONG=	33.9 E						
	DEPTH=	33 KM (NORMAL)						
	NO MAGNITUDE COMPUTED							
	RED SEA							

USCGS= 2 KILLED, 16 INJURED, HEAVY PROPERTY DAMAGE IN UNITED ARAB REPUB-  
LIC.FELT IN ISRAEL AND SAUDI ARABIA.  
MAG.= 7 = 7 1/4 (PAS); 6 1/2 - 6 3/4 (GOL).

FUR	+I Z SL	P	07 21 36.0	2.0	2.88	4	3000 27.0	131.1 325.3
	-I Z SL	PP	07 22 11.0	1.6	2.90	2		
	+I Z SL	PCP	07 24 59.0	1.5	2.73	4		
	-I Z SL	S	07 26 05.0	1.5	1.48	4		
	-I Z SL	-	07 26 49.0	8.0	4.66	7		
	+I Z SL	-	07 28 43.0	4.4	4.04	9		
	Z SL	MAXIMUM	07 34 30.0	14.0	4.56			
RAV	-E Z ST	P	07 21 42.5				3070 27.6	127.9 323.1
GRF	-I Z BE	P	07 21 45.4	1.3	2.45	9	3120 28.1	133.2 327.7
HUF	/ WI	MAXIMUM	07 27 00.0	15.5	4.74		3140 28.2	135.1 329.3
MSS	-E Z ST	P	07 21 47.7	1.5	3.28	9	3140 28.2	127.5 323.2
STU	-E Z BE	P	07 21 47.8	1.7	2.85	9	3170 28.5	128.7 324.4
BUH	-E Z GT	P	07 21 52.5	1.5	2.39	6	3220 28.9	127.1 323.4
KRL	-E Z ST	P	07 21 54.2	2.0	2.93	3	3230 29.0	127.9 324.1
HEI	-I Z ST	P	07 21 54.7	1.0	2.54	9	3240 29.1	128.9 325.0
BNS	-I Z FS	P	07 22 09.9	6.0	4.02	9	3430 30.9	128.8 326.2
	E Z FS	S	07 27 16.-					
	E FS	-	07 29 08.-					
	E Z SL	LR	07 33 28.-	30.0				
	Z SL	MAXIMUM	07 36 40.-					
HAM	-I Z WZ	P	07 22 13.2			9	3480 31.3	135.9 332.0
HG	E Z X	P	07 22 28.-			6	3630 32.7	133.7 331.4



MAR 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAR 31 USCGS  
 H= 09 01 12.7  
 LAT = 28.4 N  
 LONG= 34.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 UNITED ARAB REPUBLIC

FUR +E Z SL - 09 06 52.0 1.5 1.52 3 2960 26.6 129.5 324.1  
 +E Z SL XP 09 07 05.0 1.5 1.60 3  
 +E Z SL XPP 09 07 47.0 1.5 1.52 5  
 +E Z SL - 09 08 01.0 1.5 1.60 2

MAR 31 USCGS  
 H= 19 25 27.2  
 LAT = 38.3 N  
 LONG= 134.6 E  
 DEPTH= 417 KM  
 MAGNITUDE= 5.9  
 SEA OF JAPAN

USCGS= TWO SHOCKS APPARENTLY OCCURED WITHIN EXTREMELY SMALL INTERVALS OF TIME AND SPACE. THE SMALLER EVENT OF MAG. 4.2 MB OCCURED ABOUT 3.5 SEC BEFORE THE LARGER QUAKE OF MAG. 5.9 MB. THE EPICENTER IS BASED ON DATA FROM THE EARLIER SHOCK, WHILE THE DEPTH OBTAINED FROM (AP-P) INTERVALS PERTAINS TO THE LARGER QUAKE. MAG.= 6.5(PAS), 6.4(BRK), 5 1/2(GOL).

HAM -I Z SX P 19 36 38.8 9 8550 76.9 41.6 329.7  
 +I Z SX AP 19 38 10.0 3  
 -I E WI S 19 45 51.2 9  
 HLG -I Z X P 19 36 39.5 1.2 2.83 4 8570 77.1 40.3 331.1  
 E Z X AP 19 38 15.6 1.2 2.58 2  
 +I E X S 19 45 50.9 2.1 3.06 3  
 -I N X S 19 45 51.9 2.0 2.97 2  
 GRF +E Z BE P 19 36 47.4 0.6 1.23 3 8800 79.1 42.0 326.5  
 -I Z BE P 19 36 51.2 1.1 9  
 BNS E Z FS P 19 36 47.2 2 8880 79.9 39.4 329.3  
 -I Z FS P 19 36 53.8 1.2 2.90 9  
 -E Z FS - 19 38 23.-  
 E FS - 19 39 56.-  
 E Z SL - 19 41 29.-  
 -I E SL S 19 46 19.5 2.5 2.90  
 I SL - 19 47 02.-  
 TNS I P 19 36 54.0 8890 79.9 40.2 328.2  
 FUR +I Z SL P 19 36 57.0 1.6 2.73 - 8920 80.2 41.8 325.4  
 -I Z SL APCP 19 38 31.0 1.5 2.37 4  
 +E Z SL XP 19 39 06.0 2.0 2.45 2  
 +E Z SL PP 19 40 07.0 2.0 2.45 3  
 +I Z SL APP 19 41 21.0 1.5 1.83 2

MAR 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

+I Z SL PPP 19 42 07.0 2.0 2.39 3  
 -E Z SL - 19 43 30.0 1.5 1.67 1  
 -E Z SL S 19 46 27.0 2.0 2.28 5  
 +E Z SL SP 19 47 24.0 2.0 2.28 2  
 -I Z SL - 19 47 43.0 1.8 2.08 5  
 HEI -I Z ST P 19 36 57.2 1.0 2.98 9 8940 80.4 40.3 327.5  
 STU -I Z BE P 19 36 58.6 1.2 3.11 9 8970 80.7 40.5 326.9  
 +I N BE S 19 46 32.1 16.0 4.08 9  
 KRL -I Z ST P 19 36 59.9 1.1 3.14 9 8990 80.9 40.0 327.4  
 BUH -I Z GT P 19 37 01.4 1.5 2.76 9 9030 81.2 39.9 327.3

MAR 31  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 20 03 40.0 1.3 1.96 2

MAR 31 USCGS  
 H= 21 44 27.3  
 LAT = 27.5 N  
 LONG= 34.0 E  
 DEPTH= 6 KM  
 MAGNITUDE= 5.0  
 RED SEA

MAR 31 BCIS  
 H= 21 44 31.0  
 LAT = 27.7 N  
 LONG= 33.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 RED SEA

FUR -E Z SL - 21 50 17.0 1.5 1.52 3 3030 27.2 131.3 325.5  
 +E Z SL PP 21 51 09.0 1.6 1.52 2

APR 01 USCGS  
 H= 04 10 45.8  
 LAT = 66.4 N  
 LONG= 17.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 ICELAND REGION

BNS E Z FS P 04 15 17.5 2 2220 19.9 330.1 128.6  
 FUR -E Z SL PP 04 16 18.0 1.5 1.43 4 2630 23.7 330.9 126.1  
 +E Z SL - 04 16 51.0 1.5 1.52 3

APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

APR 02 USCGS  
H= 01 38 01.9  
LAT = 39.0 N  
LONG= 15.3 E  
DEPTH=258 KM  
MAGNITUDE= 4.8  
SOUTHERN ITALY

APR 02 BCIS  
H= 01 38 01.0  
LAT = 38.9 N  
LONG= 15.3 E  
DEPTH=275 KM  
NO MAGNITUDE COMPUTED  
TYRRHENIAN SEA

FUR	+E Z SL	P	01 40 17.0	1.2	2.70	9	1070	9.6	160.6	343.4
	+E Z SL	PP	01 40 24.0	1.0	2.21	5				
	-E Z SL	PPP	01 40 30.0	1.5	1.52	5				
	+E Z SL	Xpp	01 40 37.0	1.5	1.67	1				
	+E Z SL	-	01 40 51.0	1.0	1.99	3				
	-E Z SL	SS	01 42 12.0	1.5	1.52	5				
	-E Z SL	SSS	01 42 25.0	1.5	1.67	7				
STU	+E Z BE	P	01 40 30.6	0.6	1.93	8	1190	10.7	153.3	337.5
BUH	-I Z GT	P	01 40 34.2	1.0	1.95	9	1210	10.9	149.4	334.3
GRF	-I Z BE	P	01 40 35.8	0.8	2.00	9	1230	11.1	163.0	345.9
	+I Z BE	-	01 40 40.4							
KRL	+E Z ST	P	01 40 38.2	1.0	2.19	2	1240	11.2	150.9	335.7
BNS	+I Z FS	P	01 41 03.5	1.4	2.04	5	1470	13.3	151.1	336.9
HAM	E Z SX	P	01 41 23.-			2	1660	14.9	163.4	347.3

APR 02 USCGS  
H= 04 57 29.5  
LAT = 38.0 N  
LONG= 20.2 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
GREECE

FUR	-E Z SL	PPP	05 00 39.0	2.0	1.97	5	1340	12.0	144.2	330.3
	+E Z SL	S	05 02 34.0	1.5	1.30	3				
	+E Z SL	SS	05 02 45.0	1.5	1.52	3				
	-E Z SL	SSS	05 02 57.0	1.2	2.00	5				
	-E Z SL	-	05 03 16.0	1.5	1.67	1				
	Z SL	MAXIMUM	05 05 50.0	3.0	2.45					
GRF	E Z BE	-	05 01 09.-				1480	13.3	147.8	334.0

APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMPL. KM DEG. STAT. EPIC.

APR 02  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	14 41 56.4							
	E R BE	SG	14 42 25.5							

APR 02  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	14 47 09.4	0.4	1.11	4				
	E R BE	SG	14 47 30.3							

APR 02 USCGS  
H= 20 24 45.2  
LAT = 15.8 S  
LONG= 176.6 W  
DEPTH=462 KM  
MAGNITUDE= 4.7  
FIJI ISLANDS REGION

BNS	-I Z FS	PKP	20 43 30.6	1.0	2.08	7	16100	144.8	6.3	355.9
	E Z FS	-	20 46 31.5							
GRF	-E Z BE	PKP	20 43 33.8	0.6	1.00	2	16190	145.6	13.4	351.0
FUR	-E Z SL	PKP	20 43 37.0	1.4	1.62	5	16350	147.1	14.0	350.3

APR 03  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	10 12 47.0	1.5	1.11	2				
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APR 03  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 44 11.8	0.4	1.29	4				
	E R BE	SG	12 44 30.-							

APR 03 USCGS  
H= 20 06 13.5  
LAT = 27.4 N  
LONG= 34.0 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
RED SEA

FUR	-E Z SL	P	20 12 01.0	1.5	1.52	5	3020	27.2	131.4	325.6
	+E Z SL	PP	20 12 49.0	2.0	2.05	6				



APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

APR 03 USCGS  
 H= 22 12 23.8  
 LAT = 40.7 N  
 LONG= 19.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 ALBANIA

APR 03 BCIS  
 H= 22 12 53.6  
 LAT = 40.7 N  
 LONG= 20.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALBANIA

USCGS= ONE KILLED, 65 INJURED AND CONSIDERABLE DAMAGE IN SOUTHERN ALBANIA.

FUR	+I Z SL	P	22 14 42.0	2.8	2.28	4	1070	9.6	137.2	323.2
	+I Z SL	PP	22 14 47.0	2.0	2.58	3				
	+I Z SL	PPP	22 14 57.0	1.7	1.96	2				
	-I Z SL	XPP	22 15 01.0	1.7	2.22	4				
	+I Z SL	-	22 15 13.0	1.8	2.40	4				
	-I Z SL	S	22 16 29.0	1.3	2.84	9				
	Z SL	MAXIMUM	22 18 40.0	2.0	3.37					
GRF	-E Z BE	P	22 14 57.2	0.9	1.51	4	1200	10.8	142.5	328.6
STU	E Z BE	P	22 15 00.0	0.8	2.72	9	1230	11.0	132.6	320.2
BUH	+E Z GT	P	22 15 05.5	0.8	1.34	5	1280	11.5	129.5	317.7
KRL	+E Z ST	P	22 15 07.1	1.0	2.05	2	1290	11.6	131.2	319.3
TNS	I	P	22 15 19.5				1380	12.4	135.5	323.7
BNS	+I Z X	PN	22 15 35.7	0.8	2.11	9	1500	13.5	134.3	323.4
	I N X	SN	22 17 58.0							
	E X	-	22 20 10.-							
	E Z SL	LR	22 20 16.-	26.0						
	Z SL	MAXIMUM	22 21 30.-	11.0						
HAM	+I Z WZ	-	22 16 06.-			1	1600	14.4	148.1	335.4
HLG	E Z X	P	22 15 41.-				1740	15.7	144.2	333.1
	E E X	-	22 21 19.-	5.5	3.71	1				
	N X	-	22 21 21.-	5.8	3.80	1				
	Z X	-	22 21 35.-	5.9	3.63	1				

APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

APR 03 USCGS  
 H= 23 45 09.9  
 LAT = 40.6 N  
 LONG= 19.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 ALBANIA

FUR Z SL MAXIMUM 23 51 40.0 1.5 1.52 1090 9.8 137.8 323.8

APR 04 USCGS  
 H= 04 20 46.8  
 LAT = 40.6 N  
 LONG= 19.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 ALBANIA

FUR +E 0 SL - 04 25 52.0 1.6 1.11 2 1080 9.7 138.0 324.0  
 Z SL MAXIMUM 04 27 15.0 1.5 1.52

APR 04 USCGS  
 H= 08 45 18.7  
 LAT = 51.2 N  
 LONG= 173.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 NEAR ISLANDS, ALEUTIAN ISLANDS

HLG	+I Z X	P	08 56 55.4	1.8	2.31	1	8270	74.4	9.2	351.4
BNS	-I Z FS	P	08 57 13.0	2.5	2.35	4	8630	77.6	8.6	351.3
	E Z FS	-	08 58 09.5							
GRF	-E Z BE	P	08 57 17.9	1.0	1.85	5	8720	78.4	11.1	348.5
BUH	-I Z GT	P	08 57 25.3	1.0	1.77	8	8870	79.8	9.2	350.3
FUR	+I Z SL	P	08 57 26.0	2.0	2.45	9	8890	79.9	11.1	348.2
	+E Z SL	XPCP	08 57 48.0	1.5	1.52	5				
	-E Z SL	-	08 58 07.0	2.0	2.12	7				

APR 04 USCGS  
 H= 12 18 47.2  
 LAT = 27.7 N  
 LONG= 34.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 RED SEA

FUR +E Z SL P 12 24 30.0 1.3 1.79 4 3010 27.0 130.9 325.2



APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	AP	12 24 40.0	1.0	2.21	5		
	-E Z SL	-	12 25 41.0	1.6	1.52	3		
GRF	E Z BE	P	12 24 37.-				3120 28.1	133.0 327.6

APR 04 USCGS  
 H= 13 56 03.2  
 LAT = 22.9 N  
 LONG= 120.0 E  
 DEPTH= 46 KM  
 MAGNITUDE= 5.2  
 TAIWAN

FUR	-I Z SL	P	14 08 35.0	1.7	1.62	5	9440 84.9	61.2 320.5
	+E Z SL	AP	14 08 42.0	1.5	1.43	4		
	+E Z SL	XP	14 08 48.0	1.5	1.67	7		
	-E Z SL	XPCP	14 08 53.0	1.5	1.60	3		
	-E Z SL	PP	14 11 54.0	2.0	2.05	3		

BNS	+E Z FS	P	14 08 40.0			2	9540 85.8	58.4 324.2
	E Z FS	-	14 08 18.3					

APR 04 USCGS  
 H= 16 16 17.2  
 LAT = 24.4 N  
 LONG= 109.8 W  
 DEPTH= 31 KM  
 MAGNITUDE= 5.6  
 GULF OF CALIFORNIA

BNS	E Z FS	-	16 30 01.-			2	9650 86.8	305.5 34.4
	E Z FS	-	16 30 17.-					

APR 04 USCGS  
 H= 22 57 16.8  
 LAT = 54.5 N  
 LONG= 169.4 E  
 DEPTH= 27 KM  
 MAGNITUDE= 5.4  
 KOMANDORSKY ISLANDS REGION

GRF	+E Z BE	P	23 08 55.4	0.9	1.51	4	8290 74.6	13.0 345.5
FUR	+I Z SL	P	23 09 04.0	1.7	1.62	5	8450 76.0	12.9 345.1
	-E Z SL	PPP	23 13 34.0	2.0	2.12	7		

APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 05 USCGS  
 H= 02 18 29.9  
 LAT = 12.2 N  
 LONG= 41.2 E  
 DEPTH= 17 KM  
 MAGNITUDE= 6.2  
 ETHIOPIA

APR 05 BCIS  
 H= 02 18 48.0  
 LAT = 12.1 N  
 LONG= 41.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ETHIOPIA

BCIS = FORMATION OF NEW FAULTS AND LANDSLIDES. FELT.

FUR	-I Z SL	P	02 26 39.0	2.1	2.68	7	4860 43.7	135.1 331.1
	+I Z SL	AP	02 26 46.0	2.0	2.28	1		
	+E Z SL	XP	02 26 52.0	2.0	2.32	2		
	-E Z SL	PP	02 28 23.0	2.0	2.45	2		
	-I Z SL	APP	02 28 30.0	2.0	2.51	4		
	Z SL	MAXIMUM	02 59 20.0	14.0	4.00			

GRF	+E Z BE	P	02 26 47.-	2.0	2.41	3	4990 44.8	136.1 332.6
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BUH	E Z GT	P	02 26 51.-			2	5060 45.5	131.8 329.6
	E Z GT	-	02 26 54.-	2.4	2.83	5		

KRL	+E Z ST	P	02 26 55.4	2.0	2.85	2	5080 45.7	132.3 330.1
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BNS	E Z FS	P	02 27 06.5				5290 47.6	132.2 331.4
	-I Z FS	-	02 27 11.4	3.0	3.11	9		
	FS	PP	02 28 53.0					
	E Z SL	S	02 34 05.-					
	E Z SL	LR	02 44 30.-	30.0				
	SL	MAXIMUM	02 50 00.-	17.0				

HAM	E Z SX	P	02 27 13.0			3	5350 48.1	137.0 335.4
	E Z SX	-	02 27 35.-			4		

HLG	E Z X	P	02 27 22.6	2.0	2.61	2	5500 49.5	135.1 334.9
	E E X	P	02 27 25.6	2.0	2.58	1		
	E N X	P	02 27 28.5	2.2	2.68	1		

APR 05 USCGS  
 H= 06 53 39.2  
 LAT = 54.7 S  
 LONG= 143.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 WEST OF MACQUARIE ISLAND

FUR	+E Z SL	PKP	07 13 33.0	1.6	1.72	2	16700 150.2	120.7 277.2
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APR 1969	STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
	+E Z SL	PKP2		07 13 46.0	2.0	2.12	4			
	-I Z SL	-		07 14 34.0	1.8	2.00	2			
GRF	E Z BE	PKP		07 13 35.-				16790 151.0	118.3 279.9	

APR 05  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-		09 05 26.0	1.3	1.79	4			
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APR 05 USCGS  
 H= 13 53 08.4  
 LAT = 14.8 S  
 LONG= 167.3 E  
 DEPTH=125 KM  
 NO MAGNITUDE COMPUTED  
 NEW HEBRIDES ISLANDS

HLG	+E Z X	-		14 07 53.7	1.8	2.64	1	15300 137.6	30.2 342.2	
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APR 05 USCGS  
 H= 17 51 10.9  
 LAT = 27.5 N  
 LONG= 34.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 RED SEA

APR 05 BCIS  
 H= 17 51 09.0  
 LAT = 27.5 N  
 LONG= 33.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 RED SEA

FUR	-E Z SL	P		17 56 58.0	1.5	1.43	1	3040 27.3	130.9 325.3	
	-E Z SL	XP		17 57 10.0	1.5	1.52	5			

APR 05 USCGS  
 H= 19 09 49.2  
 LAT = 57.1 N  
 LONG= 7.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 NORTH SEA

APR 1969	STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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APR 05 HCIS  
 H= 19 09 47.0  
 LAT = 57.0 N  
 LONG= 7.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH SEA

USCGS= FELT AT FARFUND, NORWAY.

HLG	E X P			19 10 39.-				330 2.9	353.2 172.7	
	E Z X P			19 10 42.-	0.8	2.47	2			
	N X P			19 10 45.2						
	E E X -			19 11 20.-	1.0	2.99	4			
	E N X -			19 11 23.-	1.0	2.93	3			
HAM	E Z ZX	PN		19 10 50.-			1	440 4.0	338.3 156.1	
	+I Z ZX	PH		19 10 58.5			1			
BNS	E Z X	PN		19 11 22.2				680 6.1	0.3 180.4	
	I Z X	-		19 11 27.2						
	I X	SN		19 12 24.4	0.7	2.67				
GRF	E Z BE	P		19 11 42.-				870 7.8	343.8 160.6	

APR 05 USCGS  
 H= 23 26 11.5  
 LAT = 1.2 N  
 LONG= 85.2 W  
 DEPTH= 31 KM  
 MAGNITUDE= 5.8  
 OFF COAST OF EQUADOR

BNS	E Z SL	PP		23 43 56.-				10070 90.6	272.6 39.2	
	E Z SL	-		23 50 10.-						
	E SL	-		23 59 44.-						
FUR	+E Z SL	P		23 39 27.0	1.6	1.52	5	10390 93.5	275.6 41.8	
	+E Z SL	-		23 39 30.0	1.8	1.87	6			
	-E Z SL	XPP		23 43 28.0	2.4	2.22	5			
	Z SL	MAXIMUM		00 11 00.0	40.0	3.98				
	E SL	MAXIMUM		00 14 00.0	24.0	4.01				

APR 06  
NO DETERMINATION OF EPICENTER

BNS	-E Z FS	P		03 36 40.0						
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APR 1969

Apr 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

APR 06 USCGS  
H= 03 49 33.5  
LAT = 38.5 N  
LONG= 26.4 E  
DEPTH= 14 KM  
MAGNITUDE= 5.5  
AEGEAN SEA

APR 06 BCIS  
H= 03 49 33.0  
LAT = 38.5 N  
LONG= 26.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
AEGEAN SEA

USCGS= 3 INJURED+MAJOR DAMAGE IN KARABURUN AREA+TURKEY,FELT ON CHIOS,  
GREECE.

FUR	+E Z SL	P	03 53 01.0	1.6	2.12	9	1630	14.6	125.8	316.2
	-I Z SL	XP	03 53 10.0	1.5	2.52	5				
	+I Z SL	PP	03 53 15.0	1.5	2.43	2				
	-I Z SL	-	03 53 30.0	1.5	2.03	2				
	-I Z SL	S	03 55 37.0	1.8	2.30	2				
	+E Z SL	SS	03 55 48.0	1.5	1.82	3				
	-E Z SL	SSS	03 56 07.0	2.0	2.42	4				
	Z SL	MAXIMUM	03 59 30.0	7.0	4.02					
GRF	+E Z HE	P	03 53 13.6	1.4	2.00	3	1740	15.6	130.1	320.7
	-E Z HE	-	03 53 20.6	1.0	1.91					
STU	+E Z HE	P	03 53 20.2	0.8	2.29	9	1790	16.1	123.2	315.1
BUH	-E Z GT	P	03 53 26.-			3	1850	16.6	121.0	313.6
	E Z GT	-	03 53 32.-	1.6	2.80	7				
KRL	+E Z ST	P	03 53 28.2	1.0	2.01	3	1860	16.7	122.3	314.8
TNS	I	P	03 53 38.5				1930	17.3	125.7	318.3
BNS	-E Z FS	P	03 53 51.0	2.5	2.97	9	2050	18.4	125.1	318.8
	E Z FS	S	03 57 22.-							
	E FS	-	03 59 21.-							
	Z SL	MAXIMUM	04 02 00.-	9.0						
HAM	-E Z ZX	P	03 53 55.4			2	2090	18.8	136.2	328.2
	+I Z ZX	-	03 53 56.5			9				
HLG	+I Z X	P	03 54 09.5	1.2	3.22	9	2240	20.1	133.6	327.1
	+I E X	P	03 54 10.0	1.2	3.23	9				
	+I N X	P	03 54 10.1	1.2	3.22	9				

APR 1969

Apr 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

APR 06 USCGS  
H= 12 50 27.5  
LAT = 38.4 N  
LONG= 26.7 E  
DEPTH= 65 KM  
MAGNITUDE= 4.2  
AEGEAN SEA

FUR Z SL MAXIMUM 13 01 10.0 1.5 1.52 1650 14.9 125.3 315.9

APR 06 USCGS  
H= 12 56 59.0  
LAT = 38.1 N  
LONG= 25.3 E  
DEPTH= 30 KM  
MAGNITUDE= 4.1  
CRETE

GRF E Z HE P 13 01 15.- 1.5 1.52 2080 18.7 141.1 330.6

APR 06 USCGS  
H= 16 51 45.5  
LAT = 12.0 N  
LONG= 41.1 E  
DEPTH= 20 KM  
MAGNITUDE= 5.2  
ETHIOPIA

APR 06 BCIS  
H= 16 51 52.0  
LAT = 11.8 N  
LONG= 41.6 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
ETHIOPIA

FUR	+E Z SL	P	16 59 51.0	1.8	1.94	7	4870	43.8	135.3	331.2
	-E Z SL	XP	17 00 05.0	1.5	1.30	3				
	+E Z SL	-	17 01 10.0	1.5	1.52	5				
	-E Z SL	PP	17 01 36.0	1.5	1.52	5				
BUH	-E Z GT	P	17 00 06.5	2.0	1.96	4	5070	45.6	132.0	329.8
BNS	I Z FS	P	17 00 22.4	2.0	1.90	3	5300	47.7	132.3	331.5
	E Z FS	-	17 02 20.-							



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 06 USCGS  
H= 23 19 46.2  
LAT = 20.9 S  
LONG= 178.5 W  
DEPTH=505 KM  
MAGNITUDE= 4.8  
FIJI ISLANDS REGION

BNS	I Z FS	PKP	23 38 38.5	1.5	1.78	3	16640 149.6	10.6 352.8
	E Z FS	-	23 38 42.3					
GRF	-E Z BE	PKP	23 38 39.6	0.8	1.32	3	16700 150.2	18.6 347.2
FUR	-E Z SL	PKP	23 38 36.0	1.8	1.70	2	16860 151.6	19.6 346.1
	-E Z SL	PKP2	23 38 54.0	1.4	1.52	4		

APR 07  
NO DETERMINATION OF EPICENTER

BNS	+I Z FS	P	00 22 52.5	2.0	1.78	2		
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APR 07 USCGS  
H= 03 39 47.7  
LAT = 4.4 N  
LONG= 127.9 E  
DEPTH= 70 KM  
MAGNITUDE= 5.1  
TALAUD ISLANDS

FUR	+E Z SL	APP	03 58 12.0	1.5	1.52	3	11570 104.0	66.7 321.9
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APR 07 USCGS  
H= 05 10 40.3  
LAT = 16.2 S  
LONG= 177.8 E  
DEPTH= 62 KM  
MAGNITUDE= 5.0  
FIJI ISLANDS

GRF	+E Z BE	PKP	05 30 12.0	1.2	1.67	3	16100 144.8	22.8 344.8
FUR	-E Z SL	PKP	05 30 17.0	1.5	1.30	3	16260 146.2	23.8 343.7
	+E Z SL	APKP	05 30 23.0	1.8	1.80	3		

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 07 USCGS  
H= 18 40 19.4  
LAT = 42.2 N  
LONG= 142.4 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	18 52 22.0	0.7	1.11	2	8780 79.0	34.8 330.1
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APR 07 USCGS  
H= 20 26 29.9  
LAT = 76.5 N  
LONG= 130.8 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.5  
LAPTEV SEA

HAM	E Z SX	P	20 34 45.-			5	5000 45.0	16.5 313.5
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BNS	+E Z FS	P	20 35 05.0			2	5320 47.9	15.3 314.8
	-I Z FS	-	20 35 11.1	2.0	2.36	8		
	E FS	PP	20 36 57.-					
	E Z SL	-	20 47 10.-					
	E Z SL	-	20 50 50.-					
	SL	MAXIMUM	20 59 30.-			17.0		

GRF	+E Z BE	P	20 35 11.6	2.0	2.58	5	5380 48.4	15.8 311.0
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KRL	+E Z ST	P	20 35 20.6	1.5	2.25	2	5510 49.5	15.1 313.1
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STU	-E Z BE	P	20 35 19.7	1.6	2.20	4	5520 49.6	15.2 312.3
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FUR	+I Z SL	P	20 35 21.0	2.0	2.58	9	5540 49.9	15.5 310.4
	+I Z SL	AP	20 35 27.0	1.9	2.38	9		
	+E Z SL	XP	20 35 31.0	2.2	2.17	3		
	-E Z SL	PCP	20 36 42.0	1.7	1.76	7		
	-E Z SL	PP	20 37 17.0	1.6	1.60	6		
	-E Z SL	XPP	20 37 27.0	1.5	1.67	4		
	-E Z SL	-	20 38 30.0	1.5	1.60	6		
	N SL	MAXIMUM	20 57 30.0			18.0		

BUH	-E Z GT	P	20 35 27.3	1.8	2.03	4	5550 49.9	15.0 313.1
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APR 08 USCGS  
H= 10 31 52.2  
LAT = 27.5 N  
LONG= 33.7 E  
DEPTH= 15 KM  
MAGNITUDE= 5.2  
UNITED ARAB REPUBLIC



APR 1969

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH	
ABBREV.	SEIS.		H M S		AMP.		KM	DEG.	STAT. EPIC.

APR 08 BCIS  
 H= 10 31 50.0  
 LAT = 27.5 N  
 LONG= 33.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 UNITED ARAB REPUBLIC

FUR	+E Z SL	P	10 37 37.0	1.5	1.67	7	3000	27.0	131.7 325.8
	-I Z SL	XP	10 37 46.0	1.8	1.94	7			
	+E Z SL	PP	10 38 21.0	1.6	1.60	2			
	-E Z SL	PPP	10 38 29.0	1.6	1.67	2			
	-E Z SL	-	10 38 45.0	1.5	1.67	1			
	+E Z SL	-	10 38 54.0	1.5	1.43	4			
GRF	-E Z BE	P	10 37 50.0	1.0	1.48	3	3120	28.1	133.8 328.1
BUH	E Z GT	P	10 37 54.-				3210	28.9	127.7 323.8

APR 08 USCGS  
 H= 15 48 51.8  
 LAT = 40.7 N  
 LONG= 19.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 ALBANIA

APR 08 BCIS  
 H= 15 48 50.0  
 LAT = 40.6 N  
 LONG= 19.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALBANIA

BCIS = MINOR DAMAGE IN THE EPICENTER AREA, FELT (VI) AT IZVOR RABIJE, LUFTINJE AND GLAVE.

FUR	+E Z SL	P	15 51 11.0	1.4	1.70	6	1070	9.6	137.6 323.6
	+E Z SL	PP	15 51 17.0	1.5	1.52	5			
	-E Z SL	XPP	15 51 29.0	1.7	1.70	6			
	-E Z SL	-	15 51 41.0	1.2	2.08	2			
	+E Z SL	-	15 51 47.0	1.3	2.23	2			
	+I Z SL	S	15 52 58.0	1.4	1.76	4			
	+E Z SL	SSS	15 53 20.0	1.4	1.92	5			
	-E Z SL	-	15 53 30.0	1.5	1.83	5			
	Z SL	MAXIMUM	15 55 00.0	2.5	2.87				
GRF	-E Z BE	P	15 51 25.4	0.8	1.48	3	1200	10.8	142.8 328.9
STU	-E Z BE	P	15 51 24.5	0.9	2.40	9	1230	11.0	133.0 320.5
BUH	-E Z GT	P	15 51 34.-				1270	11.5	129.8 317.9
KRL	-E Z ST	P	15 51 36.6	1.2	2.23	2	1290	11.6	131.6 319.6

APR 1969

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH	
ABBREV.	SEIS.		H M S		AMP.		KM	DEG.	STAT. EPIC.

BNS	+I Z FS	PN	15 52 04.2	0.6	1.78	4	1500	13.5	134.6 323.7
	E N FS	SN	15 54 27.-						
	E FS	LR	15 57 10.-						

APR 09  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	-	02 16 47.5						
	E Z X	-	02 16 50.-						
	E X	-	02 17 05.-						

APR 09 USCGS  
 H= 12 57 24.8  
 LAT = 36.8 N  
 LONG= 139.6 E  
 DEPTH= 116 KM  
 MAGNITUDE= 5.5  
 HONSHU, JAPAN

GRF	-I Z BE	P	13 09 36.4	0.8	1.78	8	9180	82.5	39.4 329.1
BNS	-I Z FS	P	13 09 38.5	0.9	1.60	3	9240	83.1	36.6 332.0
	-I Z FS	-	13 10 06.3						
STU	-E Z BE	P	13 09 43.7	1.0	2.19	5	9350	84.1	37.9 329.6
BUH	-E Z GT	P	13 09 46.-	1.4	1.69		9400	84.6	37.2 330.0

APR 09  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	13 30 53.-						
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APR 09  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	14 25 34.0						
	E R BE	SG	14 25 53.6						

APR 09 USCGS  
 H= 16 27 52.4  
 LAT = 38.2 N  
 LONG= 20.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 GREECE



APR 1969

Apr 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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APR 09 BCIS  
 H= 16 27 47.0  
 LAT = 38.1 N  
 LONG= 19.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

FUR	-E Z SL	-	16 32 17.0	1.5	0.70	3	1310	11.8	143.9	329.9
	-E Z SL	SS	16 33 02.0	1.5	0.90	3				
	-E Z SL	SSS	16 33 17.0	1.5	1.11	2				
	-E Z SL	-	16 33 30.0	1.5	1.11	2				

APR 10  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04 34 47.0	1.5	0.90	5				
	-I Z SL	-	04 35 03.0	1.5	1.23	5				

APR 10  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	08 58 41.8							
	E R BE	SG	08 58 57.8							

APR 10 USCGS  
 H= 14 15 23.4  
 LAT = 35.9 N  
 LONG= 135.5 E  
 DEPTH=35.4 KM  
 MAGNITUDE= 4.4  
 SOUTHERN HONSHU, JAPAN

BUH	-E Z GT	P	15 04 58.6	1.0	1.47		9300	83.7	40.5	328.0
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APR 10 USCGS  
 H= 14 54 03.9  
 LAT = 42.0 N  
 LONG= 130.9 E  
 DEPTH=555 KM  
 MAGNITUDE= 5.6  
 E. RUSSIA-N.E. CHINA BORDER REG.

GRF	-E Z BE	P	15 04 49.0	1.0	1.48	3	8290	74.5	42.2	324.2
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APR 1969

Apr 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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APR 10 USCGS  
 H= 21 57 40.4  
 LAT = 25.8 N  
 LONG= 124.9 E  
 DEPTH=141 KM  
 MAGNITUDE= 5.3  
 NORTHEAST OF TAIWAN

GRF	-E Z BE	P	22 09 59.5	1.4	1.70	2	9410	84.6	56.1	323.3
FUR	+I Z SL	P	22 10 03.0	1.5	1.88	9	9500	85.4	56.0	322.0
	+E Z SL	APCP	22 10 44.0	1.6	1.00	5				
	-I Z SL	XP	22 10 55.0	1.8	1.83	3				
	+E Z SL	PP	22 13 25.0	1.7	1.56	2				
BNS	-E Z FS	P	22 10 04.0	2.0	2.32	5	9560	86.0	53.2	325.8
STU	E Z BE	P	22 10 06.6	1.0	2.02	4	9590	86.2	54.5	323.3
KRL	-E Z ST	P	22 10 08.9	1.5	2.56	4	9620	86.5	54.0	323.8
BUH	-E Z GT	P	22 10 10.-	1.2	1.58		9650	86.8	53.8	323.6

APR 11  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	13 52 37.-							
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APR 11 NFB  
 H= 15 05 00.7  
 LAT = 50.5 N  
 LONG= 10.0 E  
 DEPTH= 0 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT HILDERS(RHOFN). SHOTPOINT NO. 2  
 H= 15 05 00.73, 50 DEG 32 MIN 31 SEC N, 10 DEG 02 MIN 25 SEC E  
 HEIGHT= 730 METERS, CHARGE= 9405 KILO.

TNS	E	P	15 05 21.5				120	1.1	72.0	253.2
GRF	-I Z BE	PG	15 05 23.0	0.5	1.48	7	130	1.1	318.8	137.9
	+E R BE	SG	15 05 39.6							

APR 12 USCGS  
 H= 20 38 39.6  
 LAT = 45.2 N  
 LONG= 25.0 E  
 DEPTH= 8 KM  
 MAGNITUDE= 5.2  
 RUMANIA



APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH ABBREVI. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

APR 12 BCIS H= 20 38 41.0 LAT = 45.3 N LONG= 25.1 E DEPTH= 33 KM (NORMAL) NO MAGNITUDE COMPUTED RUMANIA

USCGS= FELT IN CAMPULUNG AREA.

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include FUR, GRF, STU, KRL, TNS, BNS.

APR 12 USCGS H= 23 07 31.9 LAT = 40.5 N LONG= 43.0 E DEPTH= 33 KM (NORMAL) NO MAGNITUDE COMPUTED TURKEY-USSR BORDER REGION

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include FUR.

APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH ABBREVI. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

APR 13 USCGS H= 05 45 43.2 LAT = 38.8 N LONG= 14.8 E DEPTH= 274 KM MAGNITUDE= 4.1 SICILY

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Row: GRF.

APR 13 USCGS H= 13 12 37.1 LAT = 29.3 N LONG= 129.5 E DEPTH= 41 KM MAGNITUDE= 5.0 RYUKYU ISLANDS

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Row: GRF.

APR 13 USCGS H= 15 24 55.6 LAT = 17.9 N LONG= 80.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.3 INDIA

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include FUR.

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Rows include GRF, KRL.

APR 13 USCGS H= 23 33 15.4 LAT = 6.1 S LONG= 129.9 E DEPTH= 152 KM MAGNITUDE= 5.9 BANDA SEA

Table with columns: STATION, COMP., PHASE, TIME, PER., LOG. AMP., S/N, DISTANCE, AZIMUTH. Row: GRF.

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-I Z SL	PKP	23 51 37.0	1.8	1.93	4	12610 113.4	72.0 320.2
	-I Z SL	-	23 51 50.0	1.5	1.23	3		
	-I Z SL	APKP	23 52 20.0	1.5	1.40	3		
	-I Z SL	PP	23 52 36.0	1.6	2.09	8		
	-I Z SL	APP	23 53 12.0	1.8	2.15	4		
	-E Z SL	PPP	23 54 51.0	1.7	1.83	9		
	Z SL	MAXIMUM	00 52 00.0	16.0	3.29			
BNS	E Z FS	PKP	23 51 37.3			2	12790 115.0	67.3 324.1
	E Z FS	-	23 52 23.-					
	FS	-	23 60 10.-					
BUH	+E Z GT	PKP	23 51 40.5				12810 115.2	69.2 321.4
APR 14 USCGS								
H= 04 17 05.2								
LAT = 61.8 N								
LONG= 149.9 W								
DEPTH= 28 KM								
NO MAGNITUDE COMPUTED								
SOUTHERN ALASKA								
FUR	+E Z SL	-	04 29 11.0	1.6	1.20	4	7710 69.4	350.5 13.4
	-E Z SL	PPP	04 32 20.0	1.7	1.56	8		
	+E Z SL	-	04 33 17.0	2.4	2.13	5		
APR 14 USCGS								
H= 05 11 45.8								
LAT = 39.1 N								
LONG= 21.8 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.6								
GREECE								
APR 14 BCIS								
H= 05 11 49.0								
LAT = 39.1 N								
LONG= 21.9 E								
DEPTH= 80 KM								
NO MAGNITUDE COMPUTED								
GREECE								
FUR	+E Z SL	PPP	05 14 53.0	2.0	1.76	1	1320 11.8	136.4 323.6
	+E Z SL	XPP	05 14 57.0	1.4	1.50	2		
	-I Z SL	-	05 15 03.0	1.6	1.20	1		
	+I Z SL	S	05 16 38.0	1.5	1.23	1		
	+I Z SL	SSS	05 17 03.0	1.5	1.23	9		
	Z SL	MAXIMUM	05 19 10.0	2.2	2.21			
GRF	E Z BE	P	05 15 02.-				1450 13.0	140.8 328.2
BNS	I Z FS	P	05 15 33.8				1750 15.7	133.6 324.0
	E Z FS	-	05 15 54.-					
	FS	MAXIMUM	05 22 10.-	12.0				

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Apr 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
APR 14 USCGS								
H= 13 13 21.8								
LAT = 27.8 N								
LONG= 54.7 E								
DEPTH= 44 KM								
MAGNITUDE= 5.0								
SOUTHERN IRAN								
APR 14 BCIS								
H= 13 13 22.0								
LAT = 27.7 N								
LONG= 54.8 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
SOUTHERN IRAN								
FUR	-E Z SL	P	13 20 50.0	1.4	1.56	2	4350 39.2	105.4 313.3
	+E Z SL	-	13 21 21.0	2.0	1.91	9		
	+E Z SL	XPP	13 22 32.0	3.2	2.38	2		
APR 14 USCGS								
H= 13 43 54.8								
LAT = 27.1 N								
LONG= 33.3 E								
DEPTH= 16 KM								
MAGNITUDE= 4.9								
UNITED ARAB REPUBLIC								
FUR	+E Z SL	P	13 49 42.0	1.5	1.11	4	3020 27.1	132.9 326.7
	+E Z SL	-	13 50 09.0	1.8	1.76	2		
	-E Z SL	PP	13 50 23.0	1.7	1.65	2		
	+E Z SL	PPP	13 50 36.0	1.8	1.76	2		
APR 15 USCGS								
H= 00 56 51.7								
LAT = 39.6 N								
LONG= 14.8 E								
DEPTH=299 KM								
MAGNITUDE= 4.1								
TYRRHENIAN SEA								
GRF	+E Z BE	P	00 59 15.8	0.4	1.00	2	1150 10.4	164.4 346.9
APR 15								
NO DETERMINATION OF EPICENTER								
GRF	+E Z BE	Pg	16 11 28.2	0.5	1.18	3		
	E R BE	Sg	16 11 55.2					



APR 1969

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 15 USCGS  
 H= 17 30 55.8  
 LAT = 39.8 N  
 LONG= 143.4 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.3  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	17 43 13.3	1.4	2.00	4	9050 81.4	35.2 330.9
BNS	+I Z FS	P	17 43 14.4	2.0	1.90	3	9100 81.8	32.6 333.8
	E Z FS	LR	18 29 38.-					
	FS	MAXIMUM	18 31 00.-	20.0				
FUR	-I Z SL	P	17 43 19.0	1.8	2.15	9	9190 82.6	35.2 330.0
	-E Z SL	PCP	17 43 25.0	2.0	1.91	2		
	-I Z SL	APCP	17 43 30.0	1.6	1.40	2		
	E SL	MAXIMUM	18 18 20.0	20.0	3.91			
	Z SL	MAXIMUM	18 24 00.0	13.0	3.55			
BUH	+E Z GT	P	17 43 23.-				9270 83.4	33.1 331.9

APR 15  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	18 35 51.7					
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APR 15 USCGS  
 H= 20 06 22.6  
 LAT = 22.2 S  
 LONG= 169.7 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 LOYALTY ISLANDS REGION

FUR	+E Z SL	PKP	20 26 09.0	1.3	1.60	1	16560 148.9	41.2 331.6
	-E Z SL	PKP2	20 26 15.0	1.5	0.90	2		
	+E Z SL	XPKP	20 26 21.0	1.5	1.08	2		
	+E Z SL	APKP	20 26 29.0	1.5	0.90	5		

APR 16 USCGS  
 H= 01 22 47.5  
 LAT = 3.5 S  
 LONG= 151.0 E  
 DEPTH= 39 KM  
 MAGNITUDE= 5.7  
 NEW-IRELAND REGION

GRF	E Z BE	PKP	01 41 47.-				13650 122.8	50.1 330.1
FUR	-E Z SL	PKP	01 41 42.0	3.0	2.10	6	13760 123.7	50.9 328.6
	+E Z SL	APKP	01 41 50.0	1.6	1.30	2		

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APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-I Z SL	XPKP		01 41 57.0	1.6	1.46	9		
-I Z SL	PP		01 43 32.0	1.5	1.52	4		
-E Z SL	APP		01 43 38.0	2.0	1.91	2		
-E Z SL	XPP		01 43 44.0	2.0	1.91	2		
Z SL	MAXIMUM		02 23 00.0	60.0	4.36			
Z SL	MAXIMUM		02 37 00.0	20.0	3.77			

BNS	E Z FS	PKP	01 41 49.8				13770 123.8	45.2 333.3
	E Z FS	PP	01 43 28.-					
	E Z FS	PKS	01 45 52.5					
	E Z SL	-	02 00 06.-					
	E Z SL	LR	02 20 35.-					
	SL	MAXIMUM	02 23 00.-	55.0				

BUH	E Z GT	PKP	01 41 48.-	2.0	2.13	2	13890 124.9	47.5 330.7
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APR 16 USCGS  
 H= 02 07 12.0  
 LAT = 35.2 N  
 LONG= 27.9 E  
 DEPTH= 56 KM  
 MAGNITUDE= 4.5  
 DODECANESE ISLANDS

FUR	-E Z SL	P	02 11 18.0	1.4	1.50	2	1990 17.9	130.2 321.3
	+E Z SL	PPP	02 11 39.0	1.6	1.15	3		
	-E Z SL	-	02 11 55.0	2.0	1.76	4		

APR 16 USCGS  
 H= 04 54 06.3  
 LAT = 35.2 N  
 LONG= 27.9 E  
 DEPTH= 8 KM  
 MAGNITUDE= 4.8  
 DODECANESE ISLANDS

APR 16 BCIS  
 H= 04 54 13.0  
 LAT = 35.3 N  
 LONG= 27.9 E  
 DEPTH= 60 KM  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR	-E Z SL	P	04 58 16.0	1.3	2.18	7	1990 17.9	130.1 321.3
	-I Z SL	-	04 58 24.0	1.5	1.62	2		
	+I Z SL	PP	04 58 33.0	1.5	1.52	4		
	-I Z SL	-	04 58 47.0	1.5	1.23	9		
	-E Z SL	S	05 01 40.0	2.0	1.85	8		
	-E Z SL	SS	05 02 02.0	2.0	1.91	2		
	+E Z SL	SSS	05 02 19.0	1.7	1.56	8		
	Z SL	MAXIMUM	05 06 30.0	9.0	3.28			

GRF	-E Z BE	P	04 58 28.4	1.0	1.42	2	2100 18.9	133.4 324.8
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BUH	E Z GT	P	04 58 40.-	0.8	1.34	2	2200 19.8	125.4 318.7
KRL	+E Z ST	P	04 58 42.9	1.2	2.43	2	2210 19.9	126.5 319.7
BNS	E Z FS	P	04 59 02.6	1.8	1.90	3	2410 21.7	128.3 322.7
	E Z FS	S	05 02 56.-					
	FS	MAXIMUM	05 09 06.-	9.0				
APR 16 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	05 43 12.0	1.8	1.45	3		
APR 16 USCGS H= 08 12 54.6 LAT = 27.6 N LONG= 34.0 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.0 RED SEA								
FUR	+E Z SL	AP	08 18 43.0	1.5	1.23	9	3010 27.1	131.2 325.4
	+E Z SL	-	08 18 54.0	1.6	1.15	1		
	+E Z SL	PPP	08 19 29.0	1.8	1.45	1		
	+E Z SL	-	08 19 34.0	1.6	1.08	2		
	+E Z SL	-	08 19 43.0	1.6	0.90	2		
APR 16 USCGS H= 12 19 40.1 LAT = 13.6 S LONG= 166.9 E DEPTH=153 KM MAGNITUDE= 5.7 NEW HEBRIDES ISLANDS								
GRF	+E Z BE	PKP	12 38 50.-	1.2	1.65	3	15430 138.8	37.5 336.0
BNS	E Z FS	PKP	12 38 50.0	1.8	1.90	3	15480 139.2	31.1 340.4
	E Z FS	-	12 39 14.-					
	E FS	-	12 41 44.8					
FUR	+E Z SL	PKP	12 38 45.0	1.5	1.23	5	15570 140.0	38.7 334.5
	+I Z SL	-	12 38 53.0	2.0	2.29	2		
	+E Z SL	APKP	12 39 21.0	1.6	1.25	2		
	+E Z SL	PP	12 41 52.0	1.5	1.11	2		
	+E Z SL	SKP	12 42 03.0	1.7	1.73	4		
	+E Z SL	PKS	12 42 31.0	1.6	1.14	2		
	+E Z SL	-	12 42 53.0	1.6	1.20	2		
	+E Z SL	-	12 43 26.0	2.4	1.98	2		
BUH	E Z GT	PKP	12 38 51.-				15650 140.8	34.1 337.5

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
APR 16 NO DETERMINATION OF EPICENTER								
GRF	-E Z BE	PG	14 19 01.5					
	+E R BE	SG	14 19 22.6					
APR 16 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	15 33 35.0	1.5	1.23	2		
APR 16 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	21 24 30.0	1.4	1.50	7		
	-E Z SL	-	21 25 21.0	2.9	2.30	3		
	+I Z SL	-	21 25 47.0	1.7	1.76	2		
GRF	-E Z BE	P	21 24 55.6	0.6	1.42	5		
APR 16 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	21 48 30.0	1.6	0.90	2		
	-E Z SL	-	21 48 51.0	1.6	1.00	3		
APR 16 USCGS H= 22 55 37.2 LAT = 35.3 N LONG= 27.9 E DEPTH= 25 KM MAGNITUDE= 5.2 DODECANESE ISLANDS								
APR 16 BCIS H= 22 55 39.0 LAT = 35.2 N LONG= 27.8 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED DODECANESE ISLANDS								
FUR	-I Z SL	P	22 59 44.0	1.5	1.62	9	1980 17.8	130.0 321.1
	-I Z SL	Xp	22 59 52.0	1.3	2.70	2		
	-I Z SL	PPP	23 00 01.0	1.3	2.60	4		
	-I Z SL	XPP	23 00 05.0	1.5	1.70	2		
	-I Z SL	-	23 00 15.0	1.5	1.76	2		
	-I Z SL	S	23 02 52.0	1.6	1.34	2		
	-E Z SL	SS	23 03 14.0	1.5	1.11	2		
	+E Z SL	SSS	23 03 30.0	2.0	1.91	2		
	+E Z SL	-	23 03 48.0	2.0	1.91	2		
	-E Z SL	APCP	23 04 20.0	1.5	1.23	2		
	Z SL	MAXIMUM	23 08 00.0	10.0	3.40			

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	+I Z BE	P	22 59 57.4	1.0	2.20	9	2100 18.9	133.3 324.7
BUH	+E Z GT	P	23 00 06.5				2200 19.7	125.2 318.5
KRL	+E Z ST	P	23 00 07.5	1.3	2.32	3	2210 19.8	126.3 319.6
TNS	I	P	23 00 17.7				2290 20.6	129.0 322.4
BNS	+I Z FS	P	23 00 29.7	1.4	2.04	5	2410 21.7	128.2 322.6
	+E Z FS	S	23 04 26.-					
	E FS	LR	23 08 22.-					

APR 16 USCGS  
H= 23 21 04.9  
LAT = 35.3 N  
LONG= 27.8 E  
DEPTH= 45 KM  
MAGNITUDE= 5.2  
DODECANESE ISLANDS

APR 16 BCIS  
H= 23 21 03.0  
LAT = 35.1 N  
LONG= 27.9 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

FUR	+E Z SL	P	23 25 08.0	1.1	2.55	9	1970 17.7	130.3 321.3
	+I Z SL	XP	23 25 20.0	2.0	2.39	3		
	+I Z SL	PPP	23 25 32.0	1.5	1.70	2		
	-E Z SL	-	23 25 41.0	1.4	1.70	2		
	+I Z SL	-	23 25 45.0	1.5	1.65	4		
	-E Z SL	S	23 28 25.0	1.8	1.93	2		
	-E Z SL	SS	23 28 50.0	2.0	1.99	2		
	-E Z SL	SSS	23 29 00.0	2.0	1.91	9		
	-I Z SL	PCP	23 29 42.0	1.6	1.49	2		
	Z SL	MAXIMUM	23 32 40.0	9.0	3.50			

GRF	+E Z BE	P	23 25 22.0	1.2	2.04	6	2090 18.8	133.6 324.9
BUH	+E Z GT	P	23 25 31.-				2180 19.6	125.5 318.7
KRL	+E Z ST	P	23 25 33.6	1.2	2.16	2	2190 19.7	126.6 319.7
TNS	I	P	23 25 42.7				2280 20.5	129.3 322.6
BNS	+I Z FS	P	23 25 55.9	1.5	1.90	4	2400 21.6	128.5 322.7
	+E Z FS	S	23 29 51.-					
	E FS	LR	23 31 46.-	40.0				
HAM	E Z SX	-	23 26 08.-			3	2450 22.0	138.1 330.8

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 17 USCGS  
H= 00 54 35.7  
LAT = 35.1 N  
LONG= 27.7 E  
DEPTH= 54 KM  
MAGNITUDE= 4.8  
DODECANESE ISLANDS

APR 17 BCIS  
H= 00 54 39.0  
LAT = 35.2 N  
LONG= 27.9 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

FUR	+E Z SL	P	00 58 41.0	1.2	2.31	5	1990 17.9	131.0 322.0
	-E Z SL	XP	00 58 52.0	1.3	2.00	2		
	-I Z SL	PP	00 58 57.0	1.3	2.00	5		
	+I Z SL	PPP	00 59 05.0	1.5	1.40	3		
	-I Z SL	-	00 59 16.0	1.5	1.52	3		
	+I Z SL	-	00 59 20.0	2.0	2.09	9		
	+E Z SL	S	01 01 49.0	2.0	1.61	5		
	+E Z SL	PCP	01 03 16.0	1.6	1.00	3		
	Z SL	MAXIMUM	01 07 00.0	10.0	3.03			

GRF	-E Z BE	P	00 58 55.0	0.8	1.48	4	2110 19.0	134.3 325.5
BUH	E Z GT	P	00 59 05.-				2200 19.8	126.2 319.3
KRL	+E Z ST	P	00 59 08.0	1.4	2.23	2	2210 19.9	127.3 320.3
TNS	I	P	00 59 16.0				2300 20.7	129.9 323.1
BNS	E Z FS	P	00 59 28.5	1.5	1.48	2	2420 21.8	129.1 323.2
	E Z FS	S	01 03 20.-					
	FS	MAXIMUM	01 09 30.-	10.0				

APR 17 USCGS  
H= 04 56 15.9  
LAT = 39.5 N  
LONG= 143.4 E  
DEPTH= 33 KM  
MAGNITUDE= 5.0  
OFF EAST COAST OF HONSHU, JAPAN

GRF	-E Z BE	P	05 08 33.4	1.4	2.10	4	9080 81.7	35.4 330.9
FUR	+E Z SL	P	05 08 40.0	2.0	1.91	9	9220 82.9	35.3 330.0
	+E Z SL	AP	05 08 49.0	2.8	2.08	7		
	-E Z SL	XP	05 08 52.0	1.6	1.26	1		
	+E Z SL	XPCP	05 08 58.0	1.5	0.90	5		
	N SL	MAXIMUM	05 53 00.0	14.0	3.74			





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STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

APR 17 USCGS  
 H= 08 01 04.1  
 LAT = 27.6 N  
 LONG= 34.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 RED SEA

FUR	-E Z SL	-	08 06 43.0	1.8	1.53	6	3010	27.1	131.1	325.3
	-E Z SL	AP	08 06 49.0	1.4	1.50	2				
	+E Z SL	XP	08 06 57.0	1.5	1.08	2				
	+E Z SL	PP	08 07 27.0	1.5	0.90	5				
	-E Z SL	XPP	08 07 41.0	3.0	2.02	5				
	-E Z SL	-	08 07 51.0	2.0	1.69	2				

APR 17  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	08 47 33.0	1.5	1.00	6				
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APR 17 USCGS  
 H= 09 12 28.9  
 LAT = 41.6 N  
 LONG= 13.8 E  
 DEPTH= 6 KM  
 MAGNITUDE= 4.6  
 SOUTHERN ITALY

APR 17 BCIS  
 H= 09 12 33.0  
 LAT = 41.5 N  
 LONG= 13.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 SOUTHERN ITALY

USCGS= 2 HOUSES COLLAPSED AT TERELLE, FELT AT CASSINO AND SURROUNDING VILLAGES.

FUR	-E Z SL	PR	09 14 25.0	2.0	1.76	1	760	6.8	163.6	345.4
	+I Z SL	-	09 14 46.0	1.4	1.86	5				
	-I Z SL	PG	09 14 59.0	1.6	1.49	2				
	-E Z SL	-	09 15 15.0	1.5	1.40	3				
	-I Z SL	SN	09 15 34.0	1.5	1.40	3				
	+E Z SL	SR	09 15 56.0	1.2	1.84	2				
	-I Z SL	SG	09 16 11.0	1.5	1.40	3				
	Z SL	MAXIMUM	09 17 26.0	1.5	2.17					
GRF	+E Z BE	P	09 15 04.-				930	8.3	166.2	348.1

APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/N KM DEG. STAT. EPIC.

APR 17 USCGS  
 H= 12 48 40.7  
 LAT = 55.2 N  
 LONG= 167.0 E  
 DEPTH= 31 KM  
 MAGNITUDE= 4.9  
 KOMANDORSKY ISLANDS REGION

FUR	-E Z SL	P	13 00 25.0	1.8	1.65	8	8340	75.0	14.2	343.4
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APR 17  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	14 26 29.0	1.5	0.90	3				
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APR 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04 57 16.0	1.0	1.98	3				
	Z SL	MAXIMUM	04 57 53.0	1.5	1.92					

GRF	E Z BE	Pg	04 57 37.0							
	E R BE	Sg	04 58 07.-							

APR 18  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	15 03 17.0							
	E R BE	Sg	15 03 32.-							

APR 18 USCGS  
 H= 15 26 54.3  
 LAT = 26.2 N  
 LONG= 125.4 E  
 DEPTH= 88 KM  
 MAGNITUDE= 4.9  
 NORTHEAST OF TAIWAN

FUR	-E Z SL	P	15 39 25.0	1.8	1.53	6	9500	85.4	55.3	322.2
	+E Z SL	PP	15 39 55.0	1.5	0.90	5				
	-E Z SL	PPP	15 44 43.0	1.5	1.00	2				
	-E Z SL	-	15 45 00.0	1.5	1.23	1				

APR 18  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	16 20 14.6							
	E R BE	Sg	16 20 20.4							



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTIC.
APR 19 USCGS H= 08 45 16.0 LAT = 6.2 S LONG= 103.9 E DEPTH= 40 KM MAGNITUDE= 5.7 SOUTHWEST OF SUMATRA										
FUR	-E Z SL	P	08 58 43.0	1.5	1.08	4	10710	96.4	92.2	317.7
	-E Z SL	XPCP	08 58 58.0	1.5	1.11	4				
	+E Z SL	APP	09 02 47.0	1.5	1.08	1				
APR 19 USCGS H= 15 18 09.6 LAT = 40.7 N LONG= 142.1 E DEPTH= 65 KM MAGNITUDE= 4.7 NEAR EAST COAST OF HONSHU, JAPAN										
GRF	-E Z BE	P	15 30 15.2	0.4	1.00	2	8910	80.1	35.7	330.1
FUR	+E Z SL	P	15 30 21.0	1.5	1.08	4	9040	81.3	35.6	329.2
APR 19 NO DETERMINATION OF EPICENTER										
FUR	-E Z SL	-	22 50 12.0	1.5	1.08	7				
APR 20 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL	-	05 22 47.0	1.5	1.00	6				
APR 20 USCGS H= 16 12 01.5 LAT = 36.0 N LONG= 10.4 W DEPTH= 29 KM MAGNITUDE= 4.6 NORTH ATLANTIC OCEAN										
APR 20 BCIS H= 16 12 13.0 LAT = 35.8 N LONG= 9.2 W NO DEPTH COMPUTED NO MAGNITUDE COMPUTED NORTH ATLANTIC OCEAN										
BNS	E Z FS	P	16 16 42.0				2180	19.6	226.9	34.7

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTIC.
APR 19 USCGS H= 02 19 07.1 LAT = 14.1 N LONG= 91.0 W DEPTH= 82 KM MAGNITUDE= 5.5 GUATEMALA										
FUR	-E Z SL	AP	16 16 44.0	1.3	1.47	1	2240	20.1	240.7	46.0
	-E Z SL	PP	16 16 49.0	1.5	0.90	2				
GRF	+E Z BE	P	16 16 48.4	0.6	1.00	1	2320	20.9	237.1	42.2
	+E Z BE	PP	16 17 02.0	0.6	1.34	3				
APR 21 USCGS H= 02 19 07.1 LAT = 14.1 N LONG= 91.0 W DEPTH= 82 KM MAGNITUDE= 5.5 GUATEMALA										
BNS	-E Z FS	P	02 31 28.5	3.0	2.28	3	9370	84.3	285.2	39.0
	E Z FS	S	02 41 56.-							
	E FS	LR	02 58 40.-							
GRF	+E Z BE	P	02 31 45.2			3	9690	87.1	288.3	39.5
FUR	+E Z SL	P	02 31 49.0	1.6	1.20	8	9740	87.6	288.4	40.9
	-E Z SL	AP	02 32 07.0	1.6	1.14	2				
	+E Z SL	PP	02 35 17.0	1.6	1.20	4				
	Z SL	MAXIMUM	03 02 00.0	32.0	3.63					
	E SL	MAXIMUM	03 10 30.0	20.0	3.61					
APR 21 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL	-	04 10 23.0	1.5	1.08	7				
APR 21 NO DETERMINATION OF EPICENTER										
FUR	-E Z SL	-	06 41 34.0	1.5	1.00	1				
APR 21 USCGS H= 07 19 27.5 LAT = 32.2 N LONG= 131.9 E DEPTH= 41 KM MAGNITUDE= 6.1 KYUSHU, JAPAN										
USCGS= 4 INJURED AND SLIGHT DAMAGE AT MIYAZAKI. MAG.= 6 1/4(PAS), 5 3/4(GOL).										
HAM	E Z SX	P	07 31 41.-			3	9010	81.0	46.8	329.1
GRF	+E Z BE	P	07 31 50.0	2.0		9	9230	83.0	47.3	325.7
TNS	I	P	07 31 52.0				9330	83.9	45.4	327.4



APR 1969

Apr 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	+I Z FS	P	07 31 54.0	1.8	2.74	9	9330 83.9	44.5 328.5
	E Z FS	PP	07 35 09.-					
	E FS	-	07 35 50.-					
	E Z SL	S	07 42 40.-					
	E Z SL	-	07 43 06.-					
	E SL	SS	07 48 45.-					
FUR	-I Z SL	P	07 31 56.0	2.0	2.91	9	9340 84.0	47.2 324.6
	-I Z SL	XPCP	07 32 10.0	1.5	1.87	9		
	-I Z SL	PP	07 35 00.0	1.8	2.15	3		
	+I Z SL	APP	07 35 14.0	1.8	2.15	3		
	+E Z SL	PPP	07 37 02.0	1.8	1.76	1		
	+E Z SL	-	07 37 16.0	1.9	1.84	2		
	+E Z SL	-	07 38 47.0	3.0	2.32	1		
	Z SL	MAXIMUM	08 14 00.0	17.0	5.18			
	Z SL	MAXIMUM	08 14 00.0	25.0	5.02			
HEI	+I Z ST	P	07 31 56.7	2.0	3.99	9	9380 84.3	45.5 326.6
STU	+I Z BE	P	07 31 57.0	1.9	3.18	9	9400 84.6	45.8 326.0
KRL	+I Z ST	P	07 31 59.5	1.8	3.22	6	9430 84.8	45.3 326.5
BUH	+E Z GT	P	07 32 00.2	2.0	2.60		9460 85.1	45.1 326.4
FEL	+E Z ST	P	07 32 03.4	1.9	2.79	9	9540 85.8	44.9 325.9

APR 21 USCGS  
H= 17 18 34.2  
LAT = 61.9 N  
LONG= 26.7 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
ICELAND REGION

BNS	E Z FS	P	17 23 19.5	1.4	1.95	3	2380 21.4	313.8 105.3
	I Z FS	-	17 23 22.8					
FUR	-E Z SL	P	17 24 00.0	1.5	1.23	3	2810 25.3	317.1 105.5
	-E Z SL	AP	17 24 08.0	1.6	1.08	1		
	-E Z SL	XP	17 24 11.0	1.8	1.45	5		
	-E Z SL	-	17 24 26.0	1.5	1.18	9		
	-E Z SL	PP	17 24 34.0	1.5	0.90	5		
	+E Z SL	PPP	17 24 48.0	2.0	1.76	2		
	+E Z SL	-	17 25 17.0	1.8	1.60	2		

APR 21 USCGS  
H= 17 58 56.9  
LAT = 14.4 S  
LONG= 66.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
MID-INDIAN RISE

APR 1969

APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	+E Z SL	P	18 11 01.0	1.5	1.08	4	8820 79.3	125.9 325.9
	-E Z SL	PCP	18 11 07.0	1.5	1.08	1		
	-E Z SL	APCP	18 11 17.0	1.5	1.11	3		
	-E Z SL	XPCP	18 11 23.0	1.5	1.11	8		

APR 21 USCGS  
H= 20 36 43.3  
LAT = 39.5 N  
LONG= 25.2 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
AEGEAN SEA

APR 21 BCIS  
H= 20 36 45.0  
LAT = 39.4 N  
LONG= 25.2 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
AEGEAN SEA

FUR	-E Z SL	P	20 39 53.0	1.5	0.90	3	1480 13.3	125.8 315.4
	+E Z SL	-	20 39 58.0	1.6	1.20	4		
	+E Z SL	PPP	20 40 11.0	1.5	1.08	2		
	-E Z SL	-	20 40 19.0	1.5	1.11	8		
	-E Z SL	S	20 42 17.0	1.5	1.11	3		
	+E Z SL	SS	20 42 37.0	2.8	2.17	4		
	-E Z SL	SSS	20 42 45.0	1.6	1.30	3		
	+E Z SL	-	20 43 07.0	1.5	1.11	2		
	Z SL	MAXIMUM	20 45 40.0	4.0	2.70			
GRF	E Z BE	P	20 40 08.-				1580 14.2	130.5 320.4
BNS	E Z FS	P	20 40 44.-	2.2	1.85	2	1900 17.1	125.3 318.2
	E Z FS	-	20 41 20.5					
	E FS	LR	20 46 40.-					

APR 21 USCGS  
H= 20 57 39.6  
LAT = 36.4 N  
LONG= 28.6 E  
DEPTH= 36 KM  
MAGNITUDE= 4.4  
DODECANESE ISLANDS

FUR	-E Z SL	P	21 01 33.0	1.6	0.90	2	1930 17.3	126.4 318.1
	-E Z SL	AP	21 01 39.0	1.5	0.90	3		
	+E Z SL	-	21 01 59.0					
	-E Z SL	-	21 02 15.0	1.5	0.90	3		



APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 21 USCGS  
H= 22 27 59.5  
LAT = 74.2 N  
LONG= 9.7 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
GREENLAND SEA

APR 21 BCIS  
H= 22 27 54.0  
LAT = 74.4 N  
LONG= 8.7 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREENLAND SEA

BNS	+I Z FS	P	22 33 07.8	1.5	2.08	5	2600 23.3	1.7 184.0
	I Z FS	-	22 33 12.5					
	E FS	-	22 33 29.2					
GRF	-E Z BE	P	22 33 19.-	1.4	1.88	2	2740 24.6	359.0 177.6
STU	+E Z BE	P	22 33 27.5	1.2	2.19	4	2840 25.5	0.3 180.7
BUH	-E Z GT	P	22 32 29.-	1.5	1.74	4	2850 25.6	0.9 182.2
FUR	-E Z SL	P	22 33 32.0	1.8	1.76	5	2910 26.1	359.0 177.6
	-I Z SL	AP	22 33 37.0	1.8	1.93	3		
	-I Z SL	XP	22 33 42.0	1.7	1.83	4		
	+E Z SL	-	22 33 58.0	1.8	1.95	2		
	+E Z SL	PP	22 34 12.0	1.5	1.30	2		
	+E Z SL	PPP	22 34 20.0	1.5	1.30	2		
	+E Z SL	-	22 34 43.0	1.5	0.90	1		

APR 22 USCGS  
H= 04 38 03.0  
LAT = 26.7 S  
LONG= 114.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
EASTER ISLAND REGION

BNS	+E Z SL	SS	05 17 10.-	20.0			14440 129.8	275.8 44.7
	E Z SL	LR	05 39 30.-	35.0				
	SL	MAXIMUM	05 44 00.-	20.0				

APR 22 USCGS  
H= 06 31 37.5  
LAT = 26.8 S  
LONG= 114.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.6  
EASTER ISLAND REGION

APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z SL	PP	06 54 26.-				14440 129.9	275.7 44.7
	E Z SL	-	07 03 00.-					
	+I SL	SS	07 11 05.-	20.0				

APR 22 USCGS  
H= 07 37 51.2  
LAT = 15.4 S  
LONG= 178.1 W  
DEPTH=164 KM  
MAGNITUDE= 5.0  
TONGA ISLANDS

BNS	+E Z FS	PKP	07 57 06.7				16070 144.5	2.1 358.6
GRF	+E Z BE	PKP	07 57 12.2	1.4	2.30	6	16180 145.5	9.1 353.9
FUR	+E Z SL	PKP	07 57 12.0	3.0	2.52	8	16350 147.0	9.6 353.4
	+E Z SL	PKP	07 57 16.0	1.5	1.08	2		
	-E Z SL	PKP2	07 57 18.0	1.5	1.34	3		
	+E Z SL	-	07 57 25.0	1.5	1.25	2		

APR 22 USCGS  
H= 08 11 21.6  
LAT = 39.8 N  
LONG= 143.0 E  
DEPTH= 36 KM  
MAGNITUDE= 5.5  
OFF EAST COAST OF HONSHU, JAPAN

BNS	+I Z FS	P	08 23 37.8	1.5	2.00	5	9080 81.7	32.9 333.6
	E Z FS	-	08 23 44.5					
	E FS	LR	08 53 00.-					
FUR	-I Z SL	P	08 23 43.0	2.0	2.37	9	9170 82.5	35.4 329.7
	-E Z SL	PCP	08 23 48.0	2.8	2.45	1		
	+E Z SL	APCP	08 23 53.0	1.5	1.23	1		
	-I Z SL	-	08 24 13.0	1.6	1.61	4		
	-E Z SL	-	08 24 24.0	1.5	1.52	9		
	-E Z SL	PP	08 26 50.0	1.5	1.08	1		
	+E Z SL	XPP	08 27 03.0	1.8	1.86	7		
	-I Z SL	-	08 28 29.0	1.6	1.40	6		
	-E Z SL	PPP	08 28 42.0	1.5	1.23	5		
STU	+I Z BE	P	08 23 43.5	0.6	1.90	5	9210 82.8	34.1 331.2
BUH	+E Z GT	P	08 23 41.-	1.6	1.80		9260 83.2	33.4 331.7

APR 22  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	12 07 22.2	0.4	0.81	2		
	E R BE	SG	12 07 38.8					



APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 22 USCGS  
 H= 22 34 38.4  
 LAT = 13.0 N  
 LONG = 58.2 E  
 DEPTH = 33 KM  
 MAGNITUDE = 5.7  
 ARABIAN SEA

FUR	+I Z SL	P	22 43 48.0	1.5	2.08	9	5820 52.3	115.8 321.8
	-I Z SL	Ap	22 43 56.0	1.5	1.76	3		
	+I Z SL	PCp	22 45 01.0	1.3	2.00	9		
	-E Z SL	PP	22 45 47.0	1.8	1.60	4		
	-I Z SL	APP	22 45 54.0	1.5	1.62	4		
	-E Z SL	PPP	22 46 49.0	1.6	1.20	2		
	-E Z SL	-	22 47 01.0	2.0	1.76	2		
	-E Z SL	-	22 47 09.0	1.7	1.60	2		
	+E Z SL	-	22 47 24.0	2.0	1.91	2		
	+E Z SL	-	22 49 04.0	2.0	1.91	9		
GRF	-I Z BE	P	22 43 53.4	1.1	1.89	6	5900 53.0	116.8 323.5
	-E Z BE	AP	22 44 03.2	1.1	1.94	3		
	E Z BE	-	22 45 46.4					
BNS	I Z FS	P	22 44 15.0	1.6	2.15	6	6220 55.9	113.8 323.6
HLG	I Z X	P	22 44 21.7	1.2	2.49	2	6330 56.9	116.4 327.3

APR 23  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	-	04 47 53.-					
	E Z FS	-	04 48 03.5	1.4	2.26			

APR 23  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	11 23 53.-					
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APR 23  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	13 35 38.3	0.5	1.12	4		
	E Z BE	-	13 35 45.7					
	E R BE	SG	13 35 56.8					

APR 23  
 NO DETERMINATION OF EPICENTER

BNS	E N X	SG	15 10 06.5	1.0	2.08	3		
	E E X	-	15 10 06.5	1.0	2.08			

APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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APR 24 USCGS  
 H= 07 26 20.4  
 LAT = 21.2 S  
 LONG = 177.0 W  
 DEPTH = 250 KM (GEOPHYSICIST)  
 MAGNITUDE = 4.9  
 FIJI ISLANDS REGION

BNS	-I Z FS	PKP	07 45 42.5	1.4	2.20	8	16690 150.1	7.8 354.7
	E Z FS	-	07 45 48.-					
GRF	-E Z BE	PKP	07 45 44.9	1.2	1.97	6	16770 150.8	15.8 349.1
BUH	+E Z GT	PKP	07 45 41.-				16930 152.3	10.5 352.6
FUR	-E Z SL	PKP	07 45 41.0	1.5	1.23	2	16930 152.3	16.7 348.1
	-I Z SL	-	07 45 48.0	1.5	1.40	4		
	-I Z SL	PKP2	07 45 59.0	1.5	1.23	3		

APR 24  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	11 19 12.0	1.5	1.23	9		
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APR 24  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 39 13.0	1.6	1.14	7		
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APR 24 USCGS  
 H= 14 45 48.0  
 LAT = 36.4 N  
 LONG = 28.7 E  
 DEPTH = 48 KM  
 MAGNITUDE = 4.7  
 DODECANESE ISLANDS

APR 24 BCIS  
 H= 14 45 51.0  
 LAT = 36.2 N  
 LONG = 28.5 E  
 DEPTH = 90 KM  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR	-E Z SL	P	14 49 47.0	1.6	1.14	2	1940 17.4	126.3 318.0
	-I Z SL	-	14 49 52.0	1.5	1.43	5		
	-E Z SL	XP	14 49 59.0	1.5	1.11	2		
	-I Z SL	PPP	14 50 07.0	1.0	1.12	1		
	-I Z SL	XPP	14 50 12.0	1.8	1.93	4		
	+I Z SL	-	14 50 20.0	1.5	1.40	4		
GRF	-E Z BE	P	14 50 01.0	1.2	1.80	3	2050 18.4	129.9 321.9



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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BUH	+E Z GT	P	14 50 12.-				2160	19.4	121.8 315.8
BNS	E Z FS	P	14 50 50.-	2.5	2.11	3	2360	21.2	125.2 320.2

APR 25  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	-	00 28 32.-						
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APR 25 USCGS  
H= 01 32 22.9  
LAT = 22.2 S  
LONG= 179.5 W  
DEPTH=542 KM  
MAGNITUDE= 4.6  
SOUTH OF FIJI ISLANDS

GRF	-E Z BE	PKP	01 51 26.5	0.8	1.30	2	16820	151.3	21.1 345.4
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APR 25 USCGS  
H= 03 34 17.7  
LAT = 7.5 N  
LONG= 82.1 W  
DEPTH= 25 KM (GEOPHYSICIST)  
MAGNITUDE= 5.4  
SOUTH OF PANAMA

BNS	E Z FS	P	03 46 46.5	2.5	2.04	2	9320	83.8	274.1 39.5
	E Z FS	-	03 47 22.-						
	E FS	LR	04 08 00.-	36.0					
BUH	+E Z GT	P	03 46 51.-				9410	84.7	275.1 41.7
KRL	-E Z ST	P	03 46 53.2	1.0	2.10	2	9420	84.8	275.3 41.4
HAM	E Z SX	-	03 47 08.-			3	9480	85.3	276.0 36.8
STU	+E Z BE	P	03 46 54.4	1.0	2.03	4	9480	85.3	275.9 41.6
GRF	+E Z BE	P	03 47 08.0	1.2	1.51	2	9620	86.5	277.3 40.5
FUR	-E Z SL	P	03 47 00.0	3.0	2.32	9	9650	86.7	277.4 42.0
	+E Z SL	AP	03 47 10.0	1.5	1.23	9			
	-I Z SL	XP	03 47 15.0	1.0	2.54	9			
	+I Z SL	XPCP	03 47 19.0	1.3	2.30	9			
	-E Z SL	PP	03 50 26.0	3.0	2.16	7			
	-E Z SL	APP	03 50 33.0	2.8	2.17	3			
	+E Z SL	XPP	03 50 38.0	1.8	1.71	9			

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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APR 25 USCGS  
H= 07 36 36.2  
LAT = 30.8 N  
LONG= 70.3 E  
DEPTH= 23 KM  
MAGNITUDE= 4.9  
WEST PAKISTAN

FUR	-E Z SL	P	07 45 11.0	1.6	1.00	5	5290	47.6	89.0 308.9
	+E Z SL	AP	07 45 16.0	1.5	1.11	8			
	+E Z SL	PCP	07 46 41.0	1.6	1.14	1			

GRF	-E Z BE	P	07 45 12.4	1.8	2.00	1	5290	47.6	90.4 311.0
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APR 25  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	07 53 40.0	1.5	0.90	5			
	+I Z SL	-	07 54 05.0	1.7	1.83	3			

APR 25 USCGS  
H= 09 13 40.6  
LAT = 56.6 N  
LONG= 156.7 W  
DEPTH= 64 KM  
MAGNITUDE= 4.6  
ALASKA PENINSULA

FUR	+E Z SL	P	09 25 19.0	1.8	1.65	8	8350	75.1	353.2 8.3
	+E Z SL	AP	09 25 28.0	1.5	1.00	2			

APR 25 NFB  
H= 10 05 01.2  
LAT = 49.6 N  
LONG= 12.4 E  
DEPTH= 0 KM  
NO MAGNITUDE COMPUTED  
GERMANY

FUR = QUARRYBLAST AT BOEHMISCHBRUCK (BAVARIA); SHOTPOINT NO. 9  
H= 10 05 01.19, 49 DEG 34 MIN 07 SEC N; 12 DEG 21 MIN 22 SEC E  
HEIGHT= 510 METERS; CHARGE= 3.5 TONS.

GRF	-E Z BE	PG	10 05 15.8	0.4	0.89	2	80	0.8	99.0 279.9
	E R BE	SG	10 05 28.-						

APR 25  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 53 33.4						
	E R BE	SG	12 54 10.-						



APR 1969 APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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APR 25  
NO DETERMINATION OF EPICENTER

GRF E Z BE - 15 10 21.9

APR 25  
NO DETERMINATION OF EPICENTER

FUR +E Z SL - 15 50 26.0 1.5 1.11 4

APR 26  
NO DETERMINATION OF EPICENTER

FUR -E Z SL - 00 25 08.0 1.5 1.00 3

APR 26 USCGS  
H= 05 58 49.0  
LAT = 30.6 S  
LONG = 71.4 W  
DEPTH = 23 KM  
MAGNITUDE = 5.6  
NEAR COAST OF CENTRAL CHILE

BNS	E Z SL	P	06 13 11.-				11840 106.5	241.8 40.3
	E Z SL	PP	06 17 03.-					
	E SL	-	06 21 26.-					
	E Z SL	-	06 30 56.-					
	E Z SL	LR	06 54 46.-					
	SL	MAXIMUM	07 01 00.-	20.0				
FUR	-E Z SL	PKP	06 17 09.0	1.8	1.45	5	11960 107.6	243.8 44.1
	-E Z SL	PP	06 17 34.0	2.0	1.69	3		
	-E Z SL	XPP	06 17 45.0	2.0	1.91	3		
	-E Z SL	-	06 20 57.0	2.0	2.17	9		
	Z SL	MAXIMUM	07 04 00.0	20.0	3.95			
GRF	E Z BE	PKP	06 17 12.-				12030 108.2	244.2 42.7

APR 26 USCGS  
H= 06 02 49.0  
LAT = 30.6 S  
LONG = 71.5 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.9  
NEAR COAST OF CENTRAL CHILE

FUR	+E Z SL	PKP	06 21 09.0	1.5	0.90	1	11980 107.7	243.9 44.2
	+E Z SL	PP	06 21 31.0	1.5	1.08	2		
	-E Z SL	APP	06 21 38.0	1.5	1.08	2		
	+E Z SL	XPP	06 21 47.0	2.8	2.27	5		
	Z SL	MAXIMUM	07 08 30.0	18.0	3.85			

APR 1969 APR 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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GRF E Z BE PKP 06 21 37.- 12050 108.4 244.3 42.8

APR 26  
NO DETERMINATION OF EPICENTER

BNS E N X SG 11 51 54.5  
I Z X - 11 51 55.9 0.7 1.48  
I X - 11 52 32.1

APR 26  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 33 02.9  
E Z BE - 12 33 14.0  
E R BE SG 12 33 21.4  
E R BE - 12 33 32.8

APR 27 USCGS  
H= 10 58 22.0  
LAT = 36.5 N  
LONG = 28.4 E  
DEPTH = 15 KM  
MAGNITUDE = 4.7  
DODECANESE ISLANDS

APR 27 BCIS  
H= 10 58 21.0  
LAT = 36.5 N  
LONG = 28.4 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

FUR	-I Z SL	P	11 02 25.0	1.4	1.83	4	1910 17.2	126.7 318.2
	+E Z SL	PPP	11 02 45.0	2.0	1.87	2		
	-E Z SL	XPP	11 02 53.0	1.5	1.08	4		
	Z SL	MAXIMUM	11 10 30.0	8.0	3.00			
GRF	+E Z BE	P	11 02 35.1	1.4	1.70	1	2020 18.1	130.3 322.1
BUH	-E Z GT	P	11 02 47.-	1.7	1.86		2130 19.1	122.2 315.9
BNS	+I Z FS	P	11 03 06.5	1.5	1.78	3	2330 21.0	125.6 320.3
	E Z FS	-	11 03 26.5					
	E FS	LR	11 12 04.-					
HAM	E Z ZX	P	11 03 09.5			4	2370 21.3	135.5 328.7
	E Z ZX	AP	11 03 15.-			4		

APR 27  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 17 23.-



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPTC.
ER BE Sg 12 18 16.-									
APR 27 USCGS									
H= 13 50 11.9									
LAT = 22.8 S									
LONG= 171.3 E									
DEPTH= 86 KM									
MAGNITUDE= 4.3									
LOYALTY ISLANDS REGION									
FUR	-E Z SL	PKP	14 09 45.0	2.5	1.86	5	16690	150.1	39.2 332.7
	-E Z SL	XPKP	14 10 30.0	1.5	1.08	4			
APR 28 USCGS									
H= 07 25 29.7									
LAT = 22.4 S									
LONG= 177.7 W									
DEPTH= 296 KM									
MAGNITUDE= 5.9									
SOUTH OF FIJI ISLANDS									
HLG	I Z X	PKP	07 44 41.5	0.8	3.01	8	16450	148.0	9.7 353.9
	E Z X	-	07 44 50.4	1.0	2.42	2			
HAM	-I Z ZX	PKP	07 44 43.3	1.4		9	16500	148.4	13.5 351.3
BNS	E Z FS	PKP	07 44 43.3	0.9	1.30	2	16810	151.2	9.3 353.6
	I Z FS	-	07 44 48.5	1.0	2.65				
	E FS	-	07 46 10.-						
GRF	+E Z BE	PKP	07 44 44.4	1.4	1.70	2	16880	151.8	17.6 347.7
	-I Z BE	-	07 44 51.2	1.0	1.72	3			
	-I Z BE	-	07 45 00.1						
FUR	-I Z SL	PKP	07 44 46.0	1.5	1.23	3	17040	153.3	18.7 346.6
	-I Z SL	-	07 44 54.0	1.5	1.52	9			
	-I Z SL	PKP2	07 45 07.0	1.5	1.76	5			
	+I Z SL	-	07 45 15.0	1.5	1.52	3			
	+E Z SL	-	07 46 10.0	1.5	1.40	9			
	-E Z SL	APKP	07 46 22.0	1.5	1.30	2			
	-E Z SL	XPKP	07 46 51.0	1.5	1.23	5			
	+E Z SL	PKS	07 48 19.0	1.8	1.90	7			
	-E Z SL	PPP	07 52 16.0	1.7	1.56	2			
BUH	-E Z GT	PKP	07 44 54.5	1.5	1.91		17050	153.3	12.2 351.3

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
APR 28 USCGS									
H= 12 50 15.2									
LAT = 25.9 N									
LONG= 95.3 E									
DEPTH= 50 KM									
MAGNITUDE= 5.2									
BURMA-INDIA BORDER REGION									
FUR	+I Z SL	P	13 01 06.0	1.3	2.20	9	7480	67.3	76.1 313.8
	+E Z SL	XP	13 01 19.0	1.5	1.00	6			
	+E Z SL	APCP	13 01 53.0	1.5	1.00	6			
	-E Z SL	PP	13 03 25.0	3.6	2.30	4			
	-E Z SL	XPP	13 03 35.0	1.5	1.08	1			
	-E Z SL	-	13 05 09.0	1.8	1.60	7			
BUH	-E Z GT	P	13 01 18.-	1.2	1.58		7690	69.1	74.3 314.9
APR 28									
NO DETERMINATION OF EPICENTER									
GRF	E Z BE	PN	14 20 14.3						
	+E Z BE	PG	14 20 21.2						
	+E Z BE	SG	14 20 44.1						
APR 28 USCGS									
H= 19 39 05.5									
LAT = 7.9 S									
LONG= 158.8 E									
DEPTH= 77 KM									
MAGNITUDE= 5.7									
SOLOMON ISLANDS									
GRF	E Z BE	PKP	19 58 09.3	1.2	1.38	1	14490	130.3	44.2 332.8
	+E Z BE	APKP	19 58 27.9	1.4	1.88	2			
	+E Z BE	PP	20 00 23.9	1.0	1.31	2			
BNS	E Z FS	PKP	19 58 11.9				14570	131.1	38.7 336.5
	I Z FS	-	19 58 29.0						
	E FS	PP	20 00 23.-						
	E Z SL	LR	20 42 00.-						
	Z SL	MAXIMUM	20 49 00.-	26.0					
FUR	+E Z SL	PKP	19 58 12.0	2.0	2.02	9	14610	131.4	45.2 331.4
	-I Z SL	APKP	19 58 30.0	1.5	1.36	7			
	-E Z SL	SKP	20 01 22.0	2.2	1.94	3			





APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

APR 28 USCGS  
 H= 23 20 42.9  
 LAT = 33.3 N  
 LONG= 116.4 W  
 DEPTH= 20 KM  
 MAGNITUDE= 5.7  
 SOUTHERN CALIFORNIA

USCGS= 33 DEG 21 MIN N, 116 DEG 21 MIN W. HYPOCENTER BY PASADENA, ROCKSLIDE AND MINOR DAMAGE AT BORREGO SPRINGS, FELT THROUGHOUT SOUTHERN CALIFORNIA, IN SOUTHERN NEVADA, WESTERN ARIZONA, AND NORTHERN BAJA CALIFORNIA, MEXICO.  
 MAG.= 5.9(PAS), 6.1(BRK).

BNS	-I Z FS	P	23 33 10.5	1.6	2.28	9	9170	82.4	315.3	32.1
	E Z FS	PP	23 36 27.-							
	E FS	LR	00 04 00.-							
KRL	+E Z ST	P	23 33 21.7	1.5	2.35	2	9390	84.4	316.3	32.9
BUH	+E Z GT	P	23 33 22.-	1.5	1.91		9400	84.6	316.2	33.2
STU	-E Z BE	P	23 33 23.0	1.2	2.05	5	9440	84.9	316.9	32.7
GRF	+E Z BE	P	23 33 25.0	1.7	2.20	4	9470	85.1	318.3	31.1
FUR	-I Z SL	P	23 33 30.0	2.0	2.14	6	9600	86.3	319.4	32.1
	-E Z SL	PCP	23 33 36.0	2.0	1.81	2				
	E SL	MAXIMUM	00 07 00.0	24.0	3.65					
	Z SL	MAXIMUM	00 11 30.0	18.0	3.67					

APR 29 USCGS  
 H= 04 37 40.7  
 LAT = 29.6 N  
 LONG= 51.5 E  
 DEPTH= 36 KM  
 MAGNITUDE= 5.6  
 SOUTHERN IRAN

FUR	-I Z SL	P	04 44 39.0	1.5	2.00	9	3990	35.9	106.4	312.5
	-I Z SL	AP	04 44 46.0	1.5	2.12	7				
	-E Z SL	PP	04 46 03.0	2.0	1.99	2				
	-E Z SL	XPP	04 46 11.0	1.8	1.90	4				
	-E Z SL	PPP	04 46 17.0	1.5	1.40	3				
	-I Z SL	-	04 46 30.0	1.5	1.40	4				
	-E Z SL	-	04 46 43.0	1.5	1.23	3				
	-I Z SL	PCP	04 47 05.0	1.5	1.23	3				
	+E Z SL	APCP	04 47 13.0	1.5	1.30	2				
	-I Z SL	XPCP	04 47 16.0	1.5	1.40	2				
	+E Z SL	SCP	04 50 40.0	1.5	1.23	2				
	-I Z SL	PCS	04 50 46.0	1.5	1.34	2				
GRF	+I Z BE	P	04 44 43.5	1.0	2.23	9	4050	36.4	108.3	315.0
	E Z BE	PP	04 46 09.-							
	-I Z BE	-	04 47 08.0	1.0	1.65	3				

APR 1969 APR 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

STU	+E Z BE	P	04 44 50.2	1.1	1.95	5	4160	37.4	105.1	312.9
HEI	+E Z ST	P	04 44 54.8	1.1	2.27	9	4210	37.8	105.5	313.7
BUH	+E Z GT	P	04 44 55.8	0.9	1.30		4220	38.0	104.1	312.4
HAM	E Z SX	P	04 45 00.-			4	4270	38.4	111.6	320.4
BNS	+I Z FS	P	04 45 07.8	1.1	2.15	9	4360	39.2	105.8	315.7
	E Z FS	LR	05 01 00.-							
	FS	MAXIMUM	05 05 00.-	18.0						

APR 29  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	12 44 56.6							
	E Z BE	SG	12 45 13.0							

APR 29  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 15 13.0	1.5	1.11	3				
	-E Z SL	-	13 15 16.0	1.5	1.11	2				

APR 29  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 22 16.0	1.2	1.98	4				
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APR 29 USCGS  
 H= 21 18 09.3  
 LAT = 46.5 N  
 LONG= 153.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

BNS	E Z FS	P	21 30 09.5				8740	78.6	23.3	338.8
	E Z FS	LR	22 01 00.-							
	FS	MAXIMUM	22 07 00.-	20.0						
GRF	-E Z BE	P	21 30 09.9	0.8		1	8750	78.7	25.8	335.9
	E Z BE	-	21 30 50.5							
FUR	-E Z SL	P	21 30 19.0	1.6	1.30	3	8900	80.0	25.7	335.1
	-I Z SL	PCP	21 30 24.0	2.0	2.09	4				
	+E Z SL	APCP	21 30 32.0	1.5	1.23	3				

APR 30  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	Pg	09 06 01.7							
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
	+E R BE	SG	09 06 21.0	0.4	0.70	2			
APR 30 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	-	14 00 25.-						
APR 30 NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	-	15 27 11.0	1.5	1.08	2			
APR 30 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	-	16 14 04.3						
APR 30 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	-	16 50 08.6						
APR 30 USCGS H= 17 00 00.0 LAT = 37.1 N LONG= 116.0 W DEPTH= 0 KM MAGNITUDE= 5.3 SOUTHERN NEVADA									
USCGS= 37 DEG 05 MIN 25 SEC N, 116 DEG 00 MIN 20 SEC W NEVADA TEST SITE #THISTLE*. SECOND EVENT AT SAME TIME LOCATED AT 37 DEG 04 MIN 53 SEC N 116 DEG 00 MIN 50 SEC W. #ALENTON*. (AEC).									
BNS	E Z FS	P	17 12 06.3				8800	79.1	317.0 32.6
GRF	E Z BE	P	17 12 21.7	0.8	1.17	2	9100	81.8	320.0 31.5
FUR	+E Z SL	P	17 12 28.0	1.5	1.23	9	9230	83.0	320.1 32.5
	-E Z SL	PCP	17 12 33.0	1.5	1.11	2			
APR 30 USCGS H= 20 20 31.8 LAT = 39.2 N LONG= 28.6 E DEPTH= 9 KM MAGNITUDE= 5.1 TURKEY									

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
APR 30 BCIS H= 20 20 30.0 LAT = 39.1 N LONG= 28.7 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY									
USCGS= 15 INJURED AND 50 HOUSES DESTROYED AT DEMIRCI. FELT STRONGLY THROUGHOUT WESTERN ANATOLIA AND AT ISTANBUL.									
FUR	-E Z SL	P	20 24 10.0	2.0	1.75	2	1710	15.4	119.4 311.4
	-I Z SL	-	20 24 16.0	2.0	2.17	4			
	-I Z SL	PP	20 24 19.0	1.5	1.52	7			
	+I Z SL	PPP	20 24 27.0	1.9	2.01	2			
	+E Z SL	-	20 24 37.0	1.6	1.34	9			
	+E Z SL	S	20 27 04.0	4.0	2.56	9			
	+E Z SL	SS	20 27 18.0	1.5	1.11	8			
	+E Z SL	SSS	20 27 41.0	3.5	2.43	2			
	Z SL	MAXIMUM	20 29 30.0	5.0	3.30				
GRF	+E Z BE	P	20 24 21.3	1.6	1.97	2	1800	16.2	123.9 316.1
	+E Z BE	-	20 24 35.6	1.0	1.61	2			
	E R BE	PCP	20 29 34.-						
STU	E Z ST	P	20 24 31.0	1.5	2.43	6	1880	16.9	117.4 310.9
BUH	-E Z GT	P	20 24 40.5	1.9	2.26		1940	17.4	115.5 309.7
KRL	-E Z ST	P	20 24 39.5	2.5	3.04	4	1940	17.5	116.7 310.9
TNS	E	P	20 24 45.0				2000	18.0	120.1 314.4
BNS	-E Z FS	P	20 24 57.2	3.0	2.57	5	2120	19.1	119.9 315.1
	+E Z FS	S	20 28 38.-						
	E FS	-	20 30 20.-						
	Z SL	MAXIMUM	20 33 12.-	13.0					
HAM	E Z SX	P	20 24 58.-			3	2130	19.2	130.8 324.4
MAY 01 USCGS H= 02 45 05.0 LAT = 50.0 S LONG= 114.3 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.9 EASTER ISLAND CORDILLERA									
FUR	-E Z SL	-	03 04 31.0	3.0	2.16	7	16120	145.0	246.2 71.5
	+E Z SL	APKP	03 04 40.0	2.0	1.76	7			
	-I Z SL	XPKP	03 04 47.0	2.0	1.91	3			
GRF	E Z BE	PKP	03 04 41.-				16180	145.5	248.2 69.0



MAY 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAY 01 USCGS  
 H= 03 11 54.3  
 LAT = 21.0 S  
 LONG= 174.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

BNS +I Z FS PKP 03 31 47.5 1.0 1.48 2 16680 150.0 3.3 357.8  
 FUR +I Z SL PKP 03 31 53.0 1.4 1.76 7 16950 152.4 11.9 351.5  
 +E Z SL APKP 03 32 03.0 1.5 1.00 2  
 -E Z SL XPKP 03 32 08.0 1.5 1.00 6

MAY 01 USCGS  
 H= 05 05 55.8  
 LAT = 21.4 S  
 LONG= 174.6 W  
 DEPTH= 32 KM  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

BNS E Z FS PKP 05 25 45.- 1.5 1.30 2 16730 150.5 3.3 357.8  
 GRF E Z BE PKP 05 25 46.8 16840 151.4 11.3 352.1  
 FUR -E Z SL PKP 05 25 50.0 1.5 1.11 8 17000 152.9 12.0 351.4  
 +E Z SL - 05 25 54.0 2.0 1.81 4  
 -E Z SL XPKP 05 26 05.0 1.5 1.11 2  
 +E Z SL PKP2 05 26 14.0 1.5 0.90 5  
 +E Z SL APKP 05 26 20.0 2.0 1.61 1  
 -E Z SL XPKP 05 26 26.0 1.5 0.90 5

MAY 01 USCGS  
 H= 18 02 14.6  
 LAT = 35.4 N  
 LONG= 27.7 E  
 DEPTH= 37 KM  
 MAGNITUDE= 5.2  
 DODECANESE ISLANDS

MAY 01 BCIS  
 H= 18 02 16.0  
 LAT = 35.3 N  
 LONG= 27.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR +I Z SL P 18 06 19.0 1.2 2.79 9 1970 17.7 130.4 321.4  
 -I Z SL XP 18 06 28.0 1.5 1.83 3  
 +I Z SL PP 18 06 35.0 1.5 1.52 5  
 -I Z SL PPP 18 06 41.0 1.5 1.40 2

MAY 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

-I Z SL - 18 06 52.0 1.8 2.21 4  
 +E Z SL S 18 09 26.0 1.5 1.08 2  
 +E Z SL SS 18 09 47.0 1.7 1.65 5  
 -E Z SL SSS 18 10 01.0 1.0 1.23 9  
 -I Z SL PCP 18 10 53.0 1.6 1.41 4  
 -E Z SL APCP 18 11 05.0 2.0 1.91 3  
 -E Z SL XPCP 18 11 09.0 1.6 1.30 2  
 Z SL MAXIMUM 18 14 40.0 8.0 3.08

GRF -E Z BE P 18 06 30.7 1.4 1.70 2 2080 18.7 133.7 324.9  
 -I Z BE - 18 06 32.2 1.0 1.85 7  
 +E Z HE - 18 07 41.4

STU E Z BE P 18 06 35.5 1.0 2.36 4 2130 19.1 127.6 320.1  
 BUH +E Z GT P 18 06 41.5 1.4 1.60 2180 19.6 125.6 318.7  
 KRL +E Z ST P 18 06 42.5 1.2 2.27 3 2190 19.7 126.7 319.7  
 HEI -E Z ST P 18 06 42.1 1.0 2.09 8 2200 19.8 128.1 321.0  
 TNS E P 18 06 50.8 2270 20.4 129.4 322.6

BNS I Z FS P 18 07 01.2 1.0 2.11 9 2390 21.5 128.6 322.8  
 I Z FS - 18 07 06.3  
 I FS - 18 07 13.3  
 I Z SL - 18 07 35.8  
 E Z SL S 18 11 02.- 10.0  
 SL MAXIMUM 18 17 00.-

HAM E Z ZX PP 18 07 41.- 4 2450 22.0 138.2 330.8

MAY 01 USCGS  
 H= 19 05 24.7  
 LAT = 16.8 S  
 LONG= 174.7 W  
 DEPTH=205 KM  
 MAGNITUDE= 6.0  
 TONGA ISLANDS

HAM +I Z ZX PKP 19 24 33.3 4 15930 143.2 7.4 355.4  
 E Z WZ PP 19 27 53.- 3

BNS -E Z FS PKP 19 24 40.5 16220 145.9 3.2 357.9  
 -I Z FS - 19 24 42.0 2.0 3.45 9  
 E FS PP 19 29 10.-

GRF -E Z BE PKP 19 24 42.6 1.3 1.68 3 16330 146.8 10.3 353.0  
 -I Z BE - 19 24 45.0 1.4 2.81 9  
 +E Z BE APKP 19 25 39.2  
 E Z BE - 19 28 06.-  
 E Z HE - 19 30 48.-

HEI E Z ST PKP 19 24 42.9 1.1 1.81 6 16390 147.4 6.0 355.9

KRL +E Z ST PKP 19 24 44.6 1.5 2.42 2 16430 147.8 5.5 356.2

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
STU	-E Z BE	PKP	19 24 44.0	1.0	2.13	8	16450 148.0	7.0 355.2
BUH	-E Z GT	PKP	19 24 45.-	1.5	1.74		16470 148.1	5.3 356.4
FUR	+I Z SL	PKP	19 24 44.0	2.0	2.75	9	16500 148.3	10.9 352.4
	+I Z SL	-	19 24 48.0	2.0	3.21	9		
	+I Z SL	PKP2	19 24 51.0	1.5	2.35	1		
	+I Z SL	-	19 25 15.0	1.9	2.62	9		
	-I Z SL	APKP	19 25 34.0	1.5	1.70	3		
	+I Z SL	APKP	19 25 44.0	2.0	2.39	4		
	-I Z SL	-	19 25 51.0	1.5	1.88	6		
	+I Z SL	XPKP	19 26 02.0	1.5	2.03	3		
	+I Z SL	-	19 26 33.0	2.0	2.57	5		
FEL	-E Z ST	PKP	19 24 46.1	2.3	2.27	8	16560 148.9	5.0 356.5
MAY 01 USCGS								
H= 20 06 40.9								
LAT = 35.3 N								
LONG= 27.6 E								
DEPTH= 32 KM								
MAGNITUDE= 4.7								
DODECANESE ISLANDS								
MAY 01 BCIS								
H= 20 06 36.0								
LAT = 35.2 N								
LONG= 27.7 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
DODECANESE ISLANDS								
FUR	-I Z SL	P	20 10 45.0	1.3	2.10	9	1960 17.7	130.6 321.6
	+I Z SL	-	20 10 53.0	1.5	1.52	9		
	+I Z SL	XP	20 10 57.0	1.6	1.46	2		
	-I Z SL	PP	20 11 01.0	1.3	2.30	2		
	-I Z SL	-	20 11 18.0	1.3	2.34	2		
	-I Z SL	-	20 11 26.0	1.5	1.62	2		
	+E Z SL	SS	20 14 17.0	1.7	1.65	3		
	-I Z SL	SSS	20 14 24.0	1.4	1.61	3		
	-E Z SL	-	20 14 47.0	1.8	1.76	9		
	+I Z SL	PCP	20 15 27.0	1.5	1.34	1		
	Z SL	MAXIMUM	20 19 10.0	8.0	3.18			
GRF	-E Z BE	P	20 10 58.6				2080 18.7	133.9 325.1
	+I Z BE	PP	20 11 08.0	1.0	1.85	7		
	E Z BE	PCP	20 15 23.6					
BUH	+E Z GT	P	20 11 09.5	1.2	1.28		2180 19.6	125.8 318.9
KRL	+E Z ST	P	20 11 12.-	1.4	2.27	2	2190 19.7	126.9 319.9
TNS	E	P	20 11 19.6				2270 20.4	129.6 322.7
BNS	-E Z FS	P	20 11 30.5	1.4	1.90	3	2390 21.5	128.8 322.9
	E Z FS	-	20 11 39.5					

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
MAY 01 USCGS								
H= 20 44 15.8								
LAT = 35.0 N								
LONG= 27.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.4								
DODECANESE ISLANDS								
MAY 01 BCIS								
H= 20 44 10.0								
LAT = 34.7 N								
LONG= 27.5 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
DODECANESE ISLANDS								
FUR	+E Z SL	AP	20 48 27.0	1.5	1.18	2	1990 17.9	131.6 322.4
	-E Z SL	XP	20 48 32.0	1.5	1.11	2		
GRF	E Z BE	P	20 48 33.4				2110 19.0	134.8 325.9
MAY 02								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	01 31 47.0	1.5	0.90	3		
MAY 02								
NO DETERMINATION OF EPICENTER								
GRF	-I Z BE	PG	10 02 26.4					
	E Z BE	SG	10 02 40.2					
MAY 02								
NO DETERMINATION OF EPICENTER								
GRF	+E Z BE	P	16 42 35.4	0.8	1.17	2		
MAY 02								
NO DETERMINATION OF EPICENTER								
FUR	+I Z SL	-	17 11 32.0	1.5	1.26	2		
MAY 02 USCGS								
H= 18 38 13.0								
LAT = 34.3 N								
LONG= 26.2 E								
DEPTH= 21 KM								
MAGNITUDE= 4.3								
CRETE								
FUR	-E Z SL	P	18 42 22.0	1.5	1.11	4	1970 17.7	135.7 325.6

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
+E Z SL	PP		18 42 35.0	1.5	1.08	4		
-E Z SL	PPP		18 42 43.0	1.2	2.14	3		
-E Z SL	XPP		18 42 47.0	1.5	1.23	2		
-E Z SL	-		18 42 52.0	1.5	1.23	2		
-E Z SL	SSS		18 46 04.0	3.0	2.00	3		
BNS	E Z FS	P	18 43 02.4			2	2400 21.6	133.0 326.0
	I Z FS	-	18 43 04.7					

MAY 02 USCGS

H= 20 40 11.3  
 LAT = 40.9 N  
 LONG= 143.0 E  
 DEPTH= 54 KM  
 MAGNITUDE= 4.7  
 OFF EAST COAST OF HONSHU, JAPAN

FUR	-E Z SL	P	20 52 24.0	2.0	1.81	8	9070 81.6	34.9 329.7
	-E Z SL	XP	20 52 33.0	1.5	1.08	2		
	+E Z SL	XPCP	20 52 48.0	2.0	1.81	4		

MAY 02 USCGS

H= 22 45 44.0  
 LAT = 40.1 N  
 LONG= 142.3 E  
 DEPTH= 60 KM  
 MAGNITUDE= 4.8  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	22 57 53.5	0.8	1.25	3	8980 80.7	35.8 330.3
	-E Z BE	AP	22 58 06.7	0.9	1.44	4		
FUR	+E Z SL	P	22 58 12.0	1.5	1.00	1	9110 81.9	35.8 329.3

MAY 03 USCGS

H= 11 40 04.6  
 LAT = 55.3 N  
 LONG= 166.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 KOMANDORSKY ISLANDS REGION

FUR	-E Z SL	P	11 51 40.0	2.0	1.76	3	8330 74.9	14.2 343.4
	-E Z SL	-	11 58 56.0	1.5	0.90	1		

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
MAY 03	USCGS							
H=	20 31 13.6							
LAT =	35.2 N							
LONG=	27.8 E							
DEPTH=	44 KM							
MAGNITUDE=	4.6							
DUDECANESE ISLANDS								

MAY 03 BCIS

H= 20 31 10.0  
 LAT = 35.1 N  
 LONG= 27.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 DUDECANESE ISLANDS

FUR	-I Z SL	P	20 35 23.0	1.0	1.98	5	1980 17.8	130.4 321.5
	+E Z SL	PP	20 35 40.0	1.5	1.08	7		
	+E Z SL	-	20 36 07.0	1.5	1.08	4		
	-E Z SL	S	20 38 37.0	2.0	1.76	1		
	-E Z SL	SSS	20 39 27.0	2.0	1.76	7		

MAY 04 USCGS

H= 07 08 01.4  
 LAT = 17.6 S  
 LONG= 178.9 W  
 DEPTH= 578 KM  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

BNS	E Z FS	PKP	07 26 36.-			2	16280 146.4	10.4 353.1
	+I Z FS	-	07 26 39.3	1.5	2.18	7		
GRF	+E Z BE	PKP	07 26 41.4				16350 147.0	17.8 348.0
KRL	+E Z ST	PKP	07 26 44.8	2.2	3.40	4	16480 148.2	13.2 350.9
FUR	-E Z SL	PKP	07 26 40.0	1.8	1.60	2	16510 148.5	18.7 347.0
	-I Z SL	-	07 26 44.0	1.5	1.65	7		
	+I Z SL	PKP2	07 26 51.0	2.0	2.09	1		

MAY 04 USCGS

H= 12 36 33.4  
 LAT = 17.4 S  
 LONG= 168.9 E  
 DEPTH= 11 KM  
 MAGNITUDE= 5.5  
 NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP	12 56 10.7				15910 143.1	37.2 335.7
	E Z BE	-	12 58 10.-					
BNS	-E Z FS	PKP	12 56 13.5			2	15950 143.5	30.3 340.5

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	-I Z FS	-	12 56 19.0	2.0	2.00	3		
	E FS	-	12 56 53.-					
	E Z SL	PKS	13 00 00.-					
	E Z SL	LR	13 39 00.-					
	SL	MAXIMUM	14 02 00.-	20.0				
FUR	+E Z SL	PKP	12 56 10.0	1.5	0.90	5	16040 144.3	38.6 334.1
	+I Z SL	PKP2	12 56 13.0	1.5	1.23	2		
	-I Z SL	-	12 56 15.0	1.5	1.92	5		
	+I Z SL	-	12 56 51.0	2.5	1.92	9		
STU	E Z BE	PKP	12 56 10.9	1.0	1.40	1	16080 144.6	35.0 336.6
KRL	+E Z ST	PKP	12 56 14.6	1.9	2.46	2	16090 144.7	33.6 337.6
BUH	E Z GT	PKP	12 56 13.0				16130 145.0	33.6 337.4
	+E Z GT	-	12 56 18.0	1.5	1.91			

## MAY 04 USCGS

H= 13 48 33.6  
 LAT = 41.5 N  
 LONG= 86.7 E  
 DEPTH= 32 KM  
 MAGNITUDE= 4.7  
 SOUTHERN SINKIANG PROV., CHINA

GRF	E Z BE	P	13 57 50.6				5720 51.4	68.6 306.4
FUR	-E Z SL	XP	13 57 55.0	1.5	1.08	7	5770 51.9	67.5 304.6

## MAY 04 USCGS

H= 15 12 07.6  
 LAT = 8.6 S  
 LONG= 121.4 E  
 DEPTH= 94 KM  
 MAGNITUDE= 5.1  
 FLORES ISLAND REGION

FUR	+E Z SL	-	15 34 38.0	1.5	1.08	2	12210 109.8	80.6 318.1
	-E Z SL	-	15 34 59.0	1.5	1.11	1		

 MAY 04  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	P	18 08 34.9	0.6	0.93	2		
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	MAY 05	USCGS						
	H= 02 08	57.2						
	LAT =	57.8 S						
	LONG=	147.6 E						
	DEPTH=	33 KM (NORMAL)						
	MAGNITUDE=	4.9						
	WEST OF MACQUARIE ISLAND							
FUR	E E SL	PKP	02 28 58.0	1.5	1.61	5	16950 152.5	127.0 268.5
	E E SL	XPKP	02 29 12.0	1.5	1.69	6		
	E E SL	-	02 29 56.0	1.5	1.61	5		
GRF	E Z BE	PKP	02 29 00.-				17060 153.4	124.5 271.2

## MAY 05 USCGS

H= 02 45 38.9  
 LAT = 11.9 N  
 LONG= 41.3 E  
 DEPTH= 35 KM  
 MAGNITUDE= 5.2  
 ETHIOPIA

## MAY 05 BCIS

H= 02 45 38.0  
 LAT = 11.9 N  
 LONG= 41.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ETHIOPIA

FUR	E E SL	P	02 53 48.0	2.0	2.18	1	4890 43.9	135.1 331.1
	E E SL	XPP	02 55 41.0	1.5	1.69	1		

## MAY 05 USCGS

H= 05 17 16.6  
 LAT = 58.1 S  
 LONG= 148.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 WEST OF MACQUARIE ISLAND

GRF	E Z BE	PKP	05 37 15.-				17100 153.8	125.1 270.1
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## MAY 05 USCGS

H= 05 34 23.5  
 LAT = 36.0 N  
 LONG= 10.4 W  
 DEPTH= 29 KM  
 MAGNITUDE= 5.5  
 NORTH ATLANTIC OCEAN

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
MAY 05 BCIS H= 05 34 25.0 LAT = 36.0 N LONG= 10.3 W NO DEPTH COMPUTED NO MAGNITUDE COMPUTED NORTH ATLANTIC OCEAN								
USCGS= FELT IN MOROCCO, PORTUGAL AND SPAIN.								
FEL	+E Z ST	P	05 38 34.8	2.5	2.97	9	2010 18.0	235.7 43.3
BUH	+E Z GT	P	05 38 42.-	1.5	2.34		2070 18.6	234.1 41.5
RAV	+E Z ST	P	05 38 45.3	2.0	2.99	9	2100 18.9	238.9 45.4
KRL	+E Z ST	P	05 38 45.5	2.5	3.59	6	2100 18.9	233.7 40.9
	+E Z ST	-	05 38 47.0					
STU	+I Z BE	P	05 38 47.7	1.4	2.88	9	2140 19.2	235.7 42.4
	E Z BE	S	05 42 43.8	14.0	3.38	5		
HEI	+E Z ST	P	05 38 49.2	1.7	2.94	9	2150 19.3	233.4 40.3
BNS	+I Z FS	P	05 38 51.7	1.5	2.60	9	2170 19.6	227.0 34.8
	I Z FS	-	05 42 06.-					
	I FS	S	05 42 14.2	1.3	2.88			
TNS	I	P	05 38 52.8				2190 19.7	231.0 38.0
	E	S	05 42 22.0					
FUR	I E SL	P	05 38 57.0	1.9	2.52	9	2230 20.1	240.7 46.1
	I E SL	XP	05 39 09.0	1.8	2.37	3		
	I E SL	-	05 39 20.0	1.5	2.57	9		
	I E SL	-	05 39 35.0	1.5	2.32	3		
	I E SL	-	05 39 40.0	1.3	2.41	3		
	I E SL	-	05 39 49.0	1.8	2.71	2		
	I E SL	S	05 42 34.0	1.5	2.51	7		
	E E SL	XS	05 42 46.0	1.5	2.00	2		
	I E SL	SS	05 42 51.0	1.5	2.47	2		
	I E SL	SSS	05 43 13.0	1.5	2.22	4		
	I E SL	APCP	05 43 22.0	1.5	2.26	2		
	E SL	MAXIMUM	05 47 00.0	20.0	4.03			
GRF	+I Z BE	P	05 39 05.3	1.3	2.68	9	2310 20.8	237.1 42.3
	E Z BE	S	05 43 09.5					
	E Z BE	-	05 44 18.-					
	E Z BE	-	05 44 51.7					
	E Z BE	-	05 46 07.-					
HLG	N X	P	05 39 00.-	1.4	2.69	2	2460 22.2	222.4 29.3
	E X	P	05 39 00.-	1.6	2.83	2		
	-I Z X	P	05 39 21.1	1.4	2.78	3		

 MAY 05  
NO DETERMINATION OF EPICENTER

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	+E Z BE	-	11 37 18.3	0.5	1.05	3		
MAY 05 USCGS H= 13 52 39.6 LAT = 30.8 S LONG= 71.8 W DEPTH= 38 KM MAGNITUDE= 5.3 NEAR COAST OF CENTRAL CHILE								
BNS	E Z SL	PS	14 20 38.-				11880 106.9	242.0 40.4
	E Z SL	LR	14 42 00.-					
	SL	MAXIMUM	14 51 00.-	20.0				
FUR	+E Z SL	PKP	14 11 13.0	1.8	1.04	1	12010 108.0	243.9 44.3
	+E Z SL	APKP	14 11 22.0	1.7	0.95	1		
	-E Z SL	XPKP	14 11 27.0	1.7	0.95	1		
MAY 05 USCGS H= 14 15 16.9 LAT = 44.2 S LONG= 141.4 E DEPTH= 25 KM NO MAGNITUDE COMPUTED SOUTH OF AUSTRALIA								
FUR	-E Z SL	PKP	14 34 54.0	1.8	1.45	5	16210 145.8	102.4 294.6
	+E Z SL	APKP	14 35 02.0	1.8	1.45	5		
GRF	+E Z BE	PKP	14 34 54.8	0.9	1.25	2	16250 146.1	100.1 297.2
MAY 05 USCGS H= 14 19 14.6 LAT = 34.7 N LONG= 23.5 E DEPTH= 64 KM MAGNITUDE= 4.3 CRETE								
FUR	+E Z SL	P	14 23 01.0	1.6	1.15	7	1810 16.3	141.6 329.7
	-I Z SL	-	14 23 06.0	1.6	1.08	6		
	-E Z SL	PP	14 23 13.0	1.7	1.26	2		
	+E Z SL	XPP	14 23 25.0	1.3	1.48	2		
	+E Z SL	-	14 23 30.0	2.1	1.58	1		
GRF	+E Z BE	P	14 23 14.4	1.2	1.38	1	1950 17.5	144.5 332.8

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 05 USCGS  
 H= 21 47 31.7  
 LAT = 66.8 N  
 LONG= 18.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 ICELAND REGION

MAY 05 BCIS  
 H= 21 47 30.0  
 LAT = 67.0 N  
 LONG= 19.0 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ICELAND REGION

BNS	E Z FS	P	21 52 05.7	2.0	2.15	4	2260	20.3	330.7 128.7
	E Z FS	S	21 56 04.-						
	E FS	LR	21 57 38.-	32.0					
KRL	+E Z ST	P	21 52 36.5	2.0	2.70	2	2490	22.4	332.2 129.3
BUH	E N GT	P	21 52 28.-				2520	22.7	332.7 130.0
GRF	E Z BE	P	21 52 34.3				2530	22.7	329.7 124.3
FUR	+I Z SL	P	21 52 47.0	2.6	2.38	9	2680	24.1	331.4 126.1
	+I Z SL	AP	21 52 57.0	2.0	2.09	2			
	+I Z SL	XP	21 53 01.0	2.0	2.09	5			
	-I Z SL	-	21 53 13.0	2.0	2.09	3			
	+I Z SL	PP	21 53 17.0	2.0	2.21	9			
	-E Z SL	PPP	21 53 29.0	1.7	2.01	6			
	+I Z SL	-	21 53 37.0	1.7	1.65	2			
	-E Z SL	PCP	21 56 23.0	2.8	2.17	2			
	+E Z SL	XS	21 57 13.0	2.0	1.76	2			
	+E Z SL	SS	21 57 50.0	2.0	1.61	5			
	Z SL	MAXIMUM	22 01 00.0	23.0	3.39				
	Z SL	MAXIMUM	22 05 00.0	11.0	3.44				

MAY 06  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	14 46 26.4	0.4	0.95	3			
	E R BE	SG	14 46 42.3						

MAY 06  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	15 50 28.0	1.5	0.90	1			
	+E Z SL	-	15 50 48.0	1.5	1.68	1			

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 06 USCGS  
 H= 22 19 19.0  
 LAT = 35.2 N  
 LONG= 27.7 E  
 DEPTH= 34 KM  
 MAGNITUDE= 4.4  
 DODECANESE ISLANDS

FUR	-E Z SL	P	22 23 24.0	1.5	0.90	5	1980	17.8	130.7 321.7
	+E Z SL	PP	22 23 36.0	1.5	0.90	5			
	+E Z SL	-	22 23 58.0	1.5	1.00	2			

MAY 07 USCGS  
 H= 08 52 50.8  
 LAT = 12.1 N  
 LONG= 124.6 E  
 DEPTH=134 KM  
 MAGNITUDE= 5.2  
 SAMAR, PHILIPPINE ISLANDS

GRF	E Z BE	PP	09 09 51.-				10610	95.4	64.4 323.2
FUR	-I Z SL	P	09 06 05.0	1.5	1.26	2	10680	96.0	64.6 321.8
	+E Z SL	AP	09 06 41.0	1.5	1.00	2			
	-E Z SL	XP	09 06 56.0	1.5	1.00	2			
	+I Z SL	PP	09 10 04.0	2.0	1.81	3			
	-E Z SL	APP	09 10 37.0	1.5	0.90	3			
	+E Z SL	Xpp	09 10 54.0	2.0	1.81	8			

MAY 07 USCGS  
 H= 09 21 18.2  
 LAT = 31.2 S  
 LONG= 179.2 W  
 DEPTH=158 KM  
 MAGNITUDE= 4.9  
 KERMADEC ISLANDS REGION

FUR	+I Z SL	PKP2	09 41 45.0	1.5	1.23	9	17930	161.3	28.9 337.8
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MAY 07 USCGS  
 H= 10 35 00.2  
 LAT = 34.9 N  
 LONG= 139.8 E  
 DEPTH=115 KM  
 MAGNITUDE= 3.9  
 NEAR S. COAST OF HONSHU, JAPAN

FUR	-E Z SL	-	10 53 17.0	1.5	0.90	5	9490	85.4	40.2 328.3
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200

MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 MAY 07  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	12 50 04.6					
	+E Z BE	PG	12 50 06.5	0.4	0.81	2		
	+E R BE	SG	12 50 22.5					

 MAY 07  
NO DETERMINATION OF EPICENTER

BNS	I Z X	PG	12 56 15.5					
	I N X	SG	12 56 18.5					

 MAY 07  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 12 00.0	1.5	1.40	9		
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 MAY 07 USCGS  
H= 13 45 00.0  
LAT = 37.3 N  
LONG = 116.5 W  
DEPTH = 0 KM  
MAGNITUDE = 5.8  
SOUTHERN NEVADA

 USCGS = 37 DEG 16 MIN 58 SEC N, 116 DEG 30 MIN 02 SEC W  
NEVADA TEST SITE #PURSE#.(AEC).

BNS	+I Z FS	P	13 57 07.0	1.5	2.20	7	8810 79.2	317.5 32.4
	E Z FS	-	13 57 27.3					
	E FS	-	14 00 11.-					
BUH	E Z GT	P	13 57 19.-	1.3	1.64		9050 81.3	318.5 33.4
GRF	+E Z BE	P	13 57 21.6	0.9	1.51	3	9100 81.9	320.4 31.3
FUR	+I Z SL	P	13 57 28.0	1.5	1.62	9	9240 83.1	320.6 32.2
	+E Z SL	PP	14 00 35.0	2.0	1.76	2		

 MAY 07 USCGS  
H= 15 40 56.7  
LAT = 44.2 N  
LONG = 149.7 E  
DEPTH = 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
KURIL ISLANDS

FUR	+E Z SL	P	15 53 10.0	1.5	1.00	3	9020 81.1	28.9 333.3
	-E Z SL	PP	15 56 14.0	1.8	1.45	5		

201

MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 MAY 07 USCGS  
H= 22 17 35.4  
LAT = 5.2 S  
LONG = 152.7 E  
DEPTH = 54 KM  
MAGNITUDE = 5.1  
NEW BRITAIN REGION

FUR	-E Z SL	PKP	22 36 35.0	1.3	1.70	5	14020 126.1	50.2 328.9
	-E Z SL	XPP	22 38 53.0	1.5	0.90	5		

 MAY 08  
NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	10 24 20.4					
	E N X	SG	10 24 39.5	0.7	1.70			
	E X	SG	10 24 39.5	1.0	1.60			

 MAY 08  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 02 31.0	1.5	1.08	2		
	+E Z SL	-	14 03 18.0	1.5	1.08	3		

 MAY 09  
NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	05 20 54.5					
	E Z X	SG	05 21 08.-					

 MAY 09 USCGS  
H= 07 09 43.6  
LAT = 38.4 N  
LONG = 20.4 E  
DEPTH = 13 KM  
MAGNITUDE = 4.6  
GREECE

FUR	+E Z SL	P	07 12 34.0	1.4	1.36	1	1310 11.8	142.6 328.8
	-E Z SL	PPP	07 12 50.0	2.0	1.76	2		

GRF	E Z BE	P	07 13 04.-				1450 13.1	146.4 332.8
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 MAY 09  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	12 59 37.0	1.5	0.90	5		
	-E Z SL	-	12 59 51.0	1.5	1.00	3		

GRF	+E Z BE	PG	13 01 58.4					
	E T BE	SG	13 02 25.-					

202

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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 MAY 09  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15 23 32.0	1.5	0.90	5			
	+E Z SL	-	15 23 50.0	1.5	0.90	5			

 MAY 09  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	P	15 57 37.3	0.8	1.48	3			
FUR	+E Z SL	-	15 59 06.0	1.5	0.90	5			
	+E Z SL	-	15 59 13.0	1.8	1.53	2			

 MAY 09  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 09 14.0	1.5	0.90	3			
	+E Z SL	-	18 09 25.0	1.5	0.90	5			

 MAY 10 BCIS  
H= 07 24 26.0  
LAT = 45.4 N  
LONG = 6.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
FRANCE

BUH	E Z GT	P	07 25 31.-				390	3.5	200.5 19.2
FUR	+E Z SL	SN	07 26 26.0	2.0	1.61	5	480	4.3	231.6 48.2
	Z SL	MAXIMUM	07 27 30.0	1.7	1.56				
GRF	E Z BE	PG	07 26 07.-				590	5.4	218.4 34.9

 MAY 10 USCGS  
H= 09 27 57.0  
LAT = 27.5 N  
LONG = 34.2 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.8  
RED SEA

FUR	-E Z SL	P	09 33 42.0	2.0	1.61	3	3030	27.3	131.0 325.3
	-I Z SL	-	09 33 45.0	1.8	1.60	1			
	-E Z SL	AP	09 33 48.0	2.0	1.61	2			
	+E Z SL	PPP	09 34 36.0	1.5	1.11	8			
GRF	E Z BE	P	09 33 46.-				3150	28.3	133.0 327.7

203

MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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 MAY 10 USCGS  
H= 12 06 27.3  
LAT = 28.1 S  
LONG = 178.1 W  
DEPTH = 196 KM  
MAGNITUDE = 4.7  
KERMADEC ISLANDS REGION

FUR	+E Z SL	PKP	12 26 32.0	1.5	0.90	5	17650	158.7	23.4 342.5
	-E Z SL	PKP2	12 26 38.0	1.5	1.18	5			

 MAY 10  
NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 36 40.2	0.4	0.87	2			
	+E R BE	SG	12 37 00.0	0.6	1.24	4			

 MAY 10 USCGS  
H= 12 57 47.8  
LAT = 56.4 N  
LONG = 153.6 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.9  
KODIAK ISLAND REGION

BNS	E Z FS	P	13 09 09.7				7990	71.9	348.9 12.6
	E Z FS	-	13 09 15.0						
GRF	-E Z BE	P	13 09 20.5	1.0	1.38	2	8180	73.6	351.3 10.2
FUR	+E Z SL	P	13 09 28.0	1.5	0.70	1	8350	75.1	351.4 10.4
	+E Z SL	AP	13 09 34.0	1.5	0.90	2			
	+E Z SL	APCP	13 09 47.0	1.5	0.90	3			
	+E Z SL	XPCP	13 09 53.0	1.5	0.93	3			

 MAY 10 USCGS  
H= 13 31 15.2  
LAT = 36.1 N  
LONG = 10.8 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.3  
NORTH ATLANTIC OCEAN

GRF	+E Z BE	P	13 35 59.0	1.2	1.58	2	2340	21.0	237.9 42.8
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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 10  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 59 26.0	1.5	0.90	3		
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MAY 10  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	15 06 48.2					
	+E Z BE	PG	15 06 53.7	0.5	1.17	4		
	E R BE	Sg	15 07 18.-					

MAY 10 USCGS  
H= 21 10 37.0  
LAT = 41.3 N  
LONG= 20.3 E  
DEPTH= 42 KM  
MAGNITUDE= 4.4  
ALBANIA

MAY 10 BCIS  
H= 21 10 37.0  
LAT = 41.2 N  
LONG= 20.3 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
ALBANIA

USCGS= FELT IN LIBRAZHD+ELBASAN AND TIRANE. FELT ALSO IN DEBAR AREA, YUGOSLAVIA.

FUR	-E Z SL	P	21 12 53.0	1.5	0.90	5	1040 9.4	133.8 320.1
	+E Z SL	PP	21 12 59.0	1.5	1.08	7		
	+E Z SL	XP	21 13 04.0	1.5	1.08	1		
	+E Z SL	PPP	21 13 08.0	1.5	1.08	1		
	-E Z SL	XPP	21 13 11.0	1.5	1.08	1		
	-E Z SL	-	21 13 30.0	1.5	1.08	7		
	+E Z SL	-	21 14 12.0	1.5	1.23	9		
	+E Z SL	S	21 14 34.0	1.5	0.85	4		
	+E Z SL	-	21 15 07.0	1.5	0.90	3		
	Z SL	MAXIMUM	21 16 40.0	1.5	1.52			
GRF	E Z BE	P	21 13 12.-				1170 10.5	139.6 326.0

MAY 11 USCGS  
H= 00 18 41.9  
LAT = 14.3 N  
LONG= 56.7 E  
DEPTH= 32 KM  
MAGNITUDE= 5.1  
ARABIAN SEA

FUR	+I Z SL	P	00 27 37.0	1.6	1.46	9	5600 50.4	116.2 321.7
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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	AP	00 27 44.0	1.5	1.48	4		
GRF	+E Z BE	P	00 27 43.3	1.0	1.48	4	5680 51.1	117.3 323.4

MAY 11 USCGS  
H= 00 42 28.8  
LAT = 35.2 N  
LONG= 27.8 E  
DEPTH= 55 KM  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

MAY 11 BCIS  
H= 00 42 31.0  
LAT = 35.2 N  
LONG= 27.7 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

GRF	E Z BE	P	00 46 46.-				2100 18.9	133.7 325.0
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MAY 11  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	07 54 52.0	1.5	0.90	1		
	-E Z SL	-	07 55 06.0	1.5	0.90	2		

MAY 11 USCGS  
H= 14 17 11.9  
LAT = 21.8 S  
LONG= 175.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.1  
TONGA ISLANDS

BNS	+I Z FS	PKP	14 37 02.8	1.3	1.78	3	16780 150.9	4.3 357.1
	E Z FS	-	14 38 16.5					
GRF	-E Z BE	PKP	14 37 05.7	1.2	1.58	3	16870 151.7	12.5 351.3
	-E Z BE	-	14 37 14.2	1.0	1.56	4		
FUR	-E Z SL	PKP	14 37 08.0	1.5	0.90	5	17040 153.2	13.2 350.5
	+E Z SL	XPKP	14 37 20.0	1.8	1.53	2		
	-E Z SL	PKP2	14 37 28.0	1.5	0.90	5		

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 11 USCGS  
 H= 16 23 08.8  
 LAT = 35.2 N  
 LONG= 27.8 E  
 DEPTH= 29 KM  
 MAGNITUDE= 4.1  
 DODECANESE ISLANDS

MAY 11 BCIS  
 H= 16 23 08.0  
 LAT = 35.2 N  
 LONG= 27.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR	-E Z SL	P	16 27 11.0	1.5	0.90	5	1980	17.8	130.4 321.5
	+E Z SL	XP	16 27 21.0	1.5	1.00	6			
GRF	E Z BE	P	16 27 31.5				2100	18.9	133.7 325.0

MAY 12  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	09 32 06.-						
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MAY 12  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	10 52 08.0	1.5	0.90	3			
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MAY 12  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	-	13 45 15.7	0.8	1.06	2			
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MAY 12  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 12 17.0	1.5	0.90	5			
	+E Z SL	-	16 12 25.0	1.5	1.08	2			

MAY 12 USCGS  
 H= 17 16 28.1  
 LAT = 22.2 S  
 LONG= 12.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 SOUTH ATLANTIC RIDGE

FUR	+E Z SL	AP	17 28 07.0	1.5	0.90	3	8140	73.2	202.6 16.1
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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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	+E Z SL	XP	17 28 10.0	1.5	1.00	3			
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MAY 12 USCGS  
 H= 19 09 09.0  
 LAT = 27.8 N  
 LONG= 56.5 E  
 DEPTH= 50 KM  
 MAGNITUDE= 4.9  
 SOUTHERN IRAN

GRF	-E Z BE	P	19 16 46.9	1.0	1.53	3	4530	40.8	105.3 315.0
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MAY 12 USCGS  
 H= 19 15 48.3  
 LAT = 21.7 S  
 LONG= 175.7 W  
 DEPTH= 260 KM  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

BNS	I Z FS	PKP	19 35 23.0	1.5	1.48	2	16760	150.7	5.4 356.3
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FUR	-E Z SL	PKP	19 35 20.0	1.5	0.90	5	17010	153.0	14.3 349.7
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MAY 12 USCGS  
 H= 19 18 08.3  
 LAT = 34.5 N  
 LONG= 24.1 E  
 DEPTH= 21 KM  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	+E Z SL	XP	19 22 03.0	1.5	1.00	6	1860	16.7	140.2 328.7
	+E Z SL	PP	19 22 10.0	1.5	0.90	1			
	+E Z SL	PPP	19 22 17.0	1.5	1.11	2			

MAY 13  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	11 21 43.0	1.5	0.47	2			
	+E Z SL	-	11 21 51.0	1.5	0.70	3			
	Z SL	MAXIMUM	11 25 30.0	3.0	2.28				

MAY 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

MAY 13 USCGS  
 H= 11 29 35.0  
 LAT = 14.8 S  
 LONG= 167.4 E  
 DEPTH=142 KM  
 MAGNITUDE= 4.9  
 NEW HEBRIDES ISLANDS

GRF E Z BE - 11 48 12.- 15590 140.2 37.5 335.8

MAY 13 USCGS  
 H= 14 16 52.8  
 LAT = 11.5 N  
 LONG= 86.4 W  
 DEPTH= 79 KM  
 MAGNITUDE= 5.6  
 NEAR COAST OF NICARAGUA

HLG +E Z X P 14 29 39.2 1.4 2.29 2 9260 83.3 280.1 36.2  
 BNS +E Z FS P 14 29 11.7 9270 83.4 280.0 39.4  
 -I Z FS - 14 29 46.0 2.0 2.30  
 E FS PP 14 32 25.-  
 E Z SL SP 14 40 35.-  
 E Z SL SS 14 45 10.-  
 E SL LR 14 55 46. 36.0  
 BUH -E Z GT P 14 29 17.4 1.5 1.44 9400 84.5 281.0 41.6  
 KRL +E Z WH P 14 29 16.- 9400 84.5 281.1 41.2  
 GRF -E Z BE P 14 29 53.6 9580 86.2 283.1 40.2  
 FUR -E Z SL P 14 29 26.0 2.4 1.98 7 9630 86.6 283.3 41.7  
 +E Z SL AP 14 29 47.0 2.6 1.98 2  
 -E Z SL XP 14 29 59.0 1.5 1.18 2  
 +E Z SL PP 14 32 41.0 1.5 1.00 3  
 +E Z SL APP 14 33 09.0 1.5 1.40 3  
 +E Z SL XPP 14 33 21.0 1.5 1.08 1  
 Z SL MAXIMUM 15 01 00.0 25.0 4.23  
 Z SL MAXIMUM 15 11 00.0 17.0 4.02

MAY 13 USCGS  
 H= 14 19 44.8  
 LAT = 36.4 N  
 LONG= 140.5 E  
 DEPTH= 75 KM  
 MAGNITUDE= 5.4  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF -I Z BE P 14 32 05.2 9260 83.2 39.0 329.6  
 FUR +E Z SL P 14 32 10.0 1.0 1.76 1 9390 84.4 38.9 328.6

MAY 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

+E Z SL APCP 14 32 41.0 1.5 0.90 5  
 +E Z SL PP 14 35 53.0 2.0 1.73 7

MAY 13 USCGS  
 H= 14 30 19.6  
 LAT = 7.2 S  
 LONG= 120.9 E  
 DEPTH=616 KM  
 MAGNITUDE= 5.6  
 FLORES SEA

GRF E Z BE PKP 14 47 42.6 12030 108.1 79.5 319.9  
 FUR +I Z SL PKP 14 47 43.0 1.5 1.08 2 12050 108.4 80.0 318.3  
 -I Z SL PP 14 48 23.0 1.5 1.40 3  
 +I Z SL APP 14 50 19.0 1.5 1.52 3  
 BNS E Z FS PKP 14 48 28.5 12280 110.4 75.8 321.8  
 I Z FS - 14 48 36.7 2.0 2.00  
 E FS - 14 50 27.-

MAY 13 USCGS  
 H= 17 48 02.4  
 LAT = 39.1 N  
 LONG= 28.5 E  
 DEPTH= 38 KM  
 MAGNITUDE= 4.5  
 TURKEY

MAY 13 BCIS  
 H= 17 48 03.0  
 LAT = 39.1 N  
 LONG= 28.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

FUR -E Z SL P 17 51 43.0 1.5 0.90 3 1710 15.4 119.6 311.6  
 +E Z SL XP 17 51 54.0 1.5 0.90 3  
 +E Z SL - 17 52 12.0 2.0 1.61 5  
 +E Z SL - 17 52 21.0 2.0 1.61 5  
 +E Z SL - 17 52 32.0 1.5 0.90 3

MAY 13  
 NO DETERMINATION OF EPICENTER

BNS E Z FS P 22 16 41.8 3.0 1.85 2

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 14 USCGS  
 H= 00 44 34.1  
 LAT = 39.3 N  
 LONG= 45.0 E  
 DEPTH= 36 KM  
 MAGNITUDE= 4.5  
 N.W. IRAN-USSR BORDER REGION

MAY 14 BCIS  
 H= 00 44 35.0  
 LAT = 38.9 N  
 LONG= 44.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 N.W. IRAN-USSR BORDER REGION

GRF	E Z BE	P	00 50 00.-				2890 26.0	100.5 304.6
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MAY 14 USCGS  
 H= 08 12 38.0  
 LAT = 35.2 N  
 LONG= 27.7 E  
 DEPTH= 29 KM  
 MAGNITUDE= 4.4  
 DODECANESE ISLANDS

FUR	+E Z SL	P	08 16 44.0	1.5	0.85	4	1980 17.8	130.6 321.6
	-E Z SL	XP	08 16 52.0	1.5	1.00	2		
	-E Z SL	PP	08 16 56.0	1.5	0.90	1		

MAY 14 USCGS  
 H= 10 05 15.8  
 LAT = 35.3 N  
 LONG= 27.8 E  
 DEPTH= 34 KM  
 MAGNITUDE= 5.1  
 DODECANESE ISLANDS

MAY 14 BCIS  
 H= 10 05 15.0  
 LAT = 35.4 N  
 LONG= 27.7 E  
 DEPTH= 70 KM  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR	+E Z SL	P	10 09 20.0	1.3	2.40	9	1970 17.7	130.2 321.3
	-I Z SL	AP	10 09 28.0	1.5	1.96	4		
	-I Z SL	PP	10 09 35.0	1.5	2.00	2		
	-I Z SL	-	10 10 01.0	1.5	1.70	2		
	+E Z SL	XS	10 12 52.0	1.8	1.76	9		
	-I Z SL	SSS	10 13 04.0	1.8	1.90	2		
	Z SL	MAXIMUM	10 17 00.0	10.0	3.36			

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	P	10 09 33.5	1.0	1.60	4	2090 18.8	133.5 324.8
STU	E Z BE	P	10 09 38.2	0.5	2.10	7	2130 19.2	127.5 320.0
BUH	-E Z GT	P	10 09 43.5	1.2	1.28		2190 19.7	125.4 318.7
KRL	+E Z ST	P	10 09 47.0	1.1	2.35	2	2200 19.8	126.5 319.7
TNS	I	P	10 09 54.7				2280 20.5	129.2 322.5
BNS	+E Z FS	P	10 10 05.3	1.7	2.11	5	2400 21.6	128.4 322.7
	E Z FS	S	10 14 03.-					
	E FS	LR	10 16 00.-	44.0				

MAY 14  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	11 00 58.4					
	E T BE	Sg	11 01 15.-					

MAY 14  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	12 46 45.0	1.5	0.90	5		
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MAY 14  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	16 09 49.8					
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MAY 14  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	17 10 23.2					
BNS	-I Z X	Sg	17 10 31.8					
	I E X	-	17 10 33.5	0.8	1.95			
	I X	-	17 10 34.5	0.9	1.70			

MAY 14 USCGS  
 H= 19 32 54.2  
 LAT = 51.3 N  
 LONG= 179.9 W  
 DEPTH= 21 KM  
 MAGNITUDE= 6.2  
 ANDREANOF ISLANDS, ALEUTIAN IS.

HLG	+I Z X	P	19 44 34.0	1.4	3.05	9	8310 74.7	5.1 355.2
	-I N X	P	19 44 35.1	1.4	3.03	8		
	E E X	P	19 44 36.5	1.0	2.93	5		
	N X	-	19 54 00.-	2.4	2.71	2		
	E E X	-	19 54 10.0	2.0	2.63	2		

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
HAM	+I Z ZX	P	19	44	38.5			9	8370	75.3	6.4	353.9
	-I N WI	S	19	54	20.5			5				
BNS	+I Z FS	P	19	44	52.4	1.5	3.10	9	8670	78.0	4.6	355.4
	E N FS	S	19	54	45.-							
	E FS	-	19	55	14.-							
	E Z SL	-	19	59	45.-							
	E Z SL	LR	20	10	20.-	48.0						
	SL	MAXIMUM	20	26	00.-	19.0						
TNS	I	P	19	44	57.6				8740	78.6	5.4	354.5
GRF	+I Z BE	P	19	44	58.1	1.2	2.34	9	8780	79.0	7.1	352.7
HEI	+I Z ST	P	19	45	00.2				8830	79.4	5.5	354.3
KRL	+I Z ST	P	19	45	03.3	1.4	2.85	5	8880	79.8	5.3	354.4
STU	+E Z BE	P	19	45	03.3	1.0	2.92	9	8900	80.0	5.8	353.9
BUH	+I Z GT	P	19	45	04.8	1.3	2.57		8920	80.2	5.2	354.5
FUR	-I Z SL	P	19	45	06.0	1.5	1.92	9	8950	80.5	7.1	352.4
	+E Z SL	XP	19	55	52.0	2.6	2.20	2				
	Z SL	MAXIMUM	20	16	00.0	27.0	4.48					
	Z SL	MAXIMUM	20	32	00.0	15.0	4.06					
RAV	+I Z ST	P	19	45	09.0				9000	81.0	6.1	353.5
FEL	+I Z ST	P	19	45	08.6	1.5	2.29	9	9010	81.0	5.0	354.6

 MAY 14  
 NO DETERMINATION OF EPICENTER

FUR +E Z SL - 20 03 52.0 1.5 0.90 1

 MAY 14 USCGS  
 H= 20 10 39.3  
 LAT = 51.3 N  
 LONG = 179.9 W  
 DEPTH = 15 KM  
 MAGNITUDE = 5.3  
 ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	E Z FS	P	20	22	38.0				8670	77.9	4.5	355.5
GRF	-I Z BE	P	20	22	44.2	0.9	1.68	6	8780	78.9	7.1	352.7
FUR	+E Z SL	P	20	22	52.0	1.5	1.08	7	8950	80.4	7.1	352.5

 MAY 14  
 NO DETERMINATION OF EPICENTER

FUR +E Z SL - 20 11 45.0 1.8 1.45 5

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

	-E Z SL	-	20	11	51.0	2.0	2.06	9				
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 MAY 14 USCGS  
 H= 20 34 09.7  
 LAT = 43.3 N  
 LONG = 146.5 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.0  
 KURIL ISLANDS

FUR	+E Z SL	P	20	46	22.0	1.5	1.23	9	8980	80.8	31.4	331.5
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 MAY 15 USCGS  
 H= 01 56 08.8  
 LAT = 34.9 N  
 LONG = 140.0 E  
 DEPTH = 60 KM  
 MAGNITUDE = 4.3  
 NEAR EAST COAST OF HONSHU, JAPAN

FUR	-E Z SL	AP	02	08	52.0	1.5	0.90	5	9510	85.5	40.1	328.4
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 MAY 15  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04	55	40.0	1.5	1.00	6				
	+E Z SL	-	04	56	22.0	1.5	0.90	5				

 MAY 15 USCGS  
 H= 12 05 55.5  
 LAT = 35.4 N  
 LONG = 27.8 E  
 DEPTH = 32 KM  
 MAGNITUDE = 4.9  
 DODECANESE ISLANDS

 MAY 15 BCIS  
 H= 12 05 52.0  
 LAT = 35.3 N  
 LONG = 27.7 E  
 DEPTH = 80 KM  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

FUR	+E Z SL	P	12	10	01.0	1.0	1.98	5	1970	17.7	130.1	321.2
	+E Z SL	AP	12	10	13.0	1.7	1.49	2				
	-I Z SL	PP	12	10	15.0	1.5	1.08	1				
	+E Z SL	-	12	10	30.0	1.5	1.23	1				
	N SL	MAXIMUM	12	21	00.0	15.0	3.63					

GRF	+E Z BE	P	12	10	13.4	0.8	1.20		2090	18.8	133.4	324.8
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
STU	E Z BE	P	12 10 19.3	1.0	2.13	8	2130 19.2	127.4 320.0
BUH	E Z GT	P	12 10 23.8	1.5	1.20		2180 19.6	125.4 318.6
KRL	E Z ST	P	12 10 25.-				2200 19.7	126.4 319.6
BNS	E Z FS	P	12 10 30.1				2400 21.6	128.3 322.6
	E Z FS	P	12 10 48.0					
	I Z FS	-	12 10 49.8	1.0	1.60			
	E FS	LR	12 20 00.-	12.0				
MAY 15 USCGS								
H= 13 08 10.7								
LAT = 37.6 N								
LONG= 35.3 E								
DEPTH= 41 KM								
MAGNITUDE= 4.7								
TURKEY								
FUR	+E Z SL	P	13 12 42.0	1.5	0.90	5	2280 20.5	112.3 308.8
	-E Z SL	Ap	13 12 53.0	1.5	1.00	3		
MAY 15								
NO DETERMINATION OF EPICENTER								
GRF	E Z BE	-	16 31 32.-					
MAY 15 USCGS								
H= 20 39 45.8								
LAT = 34.6 N								
LONG= 70.9 E								
DEPTH= 22 KM								
MAGNITUDE= 5.6								
AFGHANISTAN								
GRF	-E Z BE	P	20 48 07.0	1.4	2.30	7	5070 45.5	85.9 308.2
FUR	-E Z SL	P	20 48 06.0	1.8	2.23	8	5070 45.6	84.5 306.1
	-E Z SL	Ap	20 48 16.0	1.5	1.22	2		
	+E Z SL	XP	20 48 20.0	1.5	1.23	9		
	+E Z SL	PP	20 49 53.0	2.0	1.09	9		
KRL	+E Z ST	P	20 48 21.7	1.4	2.37	3	5280 47.4	83.3 307.5
BNS	-I Z FS	P	20 48 25.5	2.0	2.04	4	5340 48.0	84.2 310.3
	E Z FS	-	20 50 47.-					

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
MAY 15 USCGS								
H= 20 43 33.4								
LAT = 16.8 N								
LONG= 61.3 W								
DEPTH= 50 KM								
MAGNITUDE= 5.7								
LEEWARD ISLANDS								
BNS	+I Z FS	P	20 54 05.1	1.8	2.48	9	7080 63.7	264.2 41.0
	+I Z FS	-	20 54 11.4					
	E FS	S	21 02 33.-					
	E Z SL	SS	21 06 50.-					
	Z SL	MAXIMUM	21 14 00.-	26.0				
BUH	E Z GT	P	20 54 04.6	1.0	0.87		7130 64.1	266.1 43.7
KRL	+E Z ST	P	20 54 07.0	1.7	2.35	2	7150 64.3	266.1 43.3
HLG	N X	P	20 54 00.-	2.0	2.61	2	7170 64.4	263.2 37.5
	E X	P	20 54 00.-	1.6	2.69	3		
	+I Z X	P	20 54 16.5	1.4	2.88	5		
STU	E Z BE	P	20 54 08.3	0.9	1.80	4	7200 64.8	266.8 43.6
HAM	+E Z WZ	P	20 54 17.5			2	7290 65.6	265.3 38.5
	+I Z SX	-	20 54 24.5			9		
FUR	-E Z SL	P	20 54 19.0	2.0	1.91	9	7360 66.1	268.7 44.3
	-I Z SL	Ap	20 54 27.0	1.8	2.45	5		
	-E Z SL	PCP	20 54 45.0	1.5	1.62	5		
	+E Z SL	APCP	20 54 54.0	1.5	1.62	3		
	-E Z SL	PP	20 56 41.0	1.5	1.40	8		
	-E Z SL	APP	20 56 49.0	1.5	1.52	9		
	-E Z SL	XPP	20 56 55.0	1.5	1.34	3		
	-E Z SL	-	20 58 21.0	1.8	1.76	9		
	Z SL	MAXIMUM	21 15 00.0	28.0	3.56			
GRF	-E Z BE	P	20 54 17.2	0.8	1.48	3	7360 66.1	268.0 42.6
	+I Z BE	-	20 54 27.4					
MAY 15 USCGS								
H= 22 38 23.2								
LAT = 7.2 S								
LONG= 120.3 E								
DEPTH= 463 KM								
MAGNITUDE= 5.3								
FLORES SEA								
FUR	-E Z SL	-	22 56 21.0	1.5	0.90	1	12010 108.0	80.6 318.3
	-E Z SL	PP	22 56 32.0	1.5	1.26	4		





STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 16 USCGS  
 H= 04 02 57.1  
 LAT = 49.8 N  
 LONG= 78.1 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.3  
 EASTERN KAZAKH SSR

MAY 16 BCIS  
 H= 04 03 00.0  
 LAT = 49.8 N  
 LONG= 78.0 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 NO MAGNITUDE COMPUTED  
 EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

GRF	-E Z BE	P	04 10 52.4	1.0	1.78		4660 41.9	63.2 296.6
FUR	+E Z SL	P	04 10 57.0	1.4	1.51	2	4740 42.6	61.7 294.6
	+E Z SL	PP	04 12 36.0	1.5	0.90	3		

MAY 16 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04 29 43.0	1.6	1.00	1		
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MAY 16 USCGS  
 H= 05 09 32.7  
 LAT = 34.9 N  
 LONG= 24.4 E  
 DEPTH= 33 KM  
 MAGNITUDE= 4.6  
 CRETE

MAY 16 BCIS  
 H= 05 09 33.0  
 LAT = 34.5 N  
 LONG= 24.8 E  
 DEPTH= 90 KM  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	-E Z SL	P	05 13 23.0	1.2	1.84	3	1830 16.5	138.9 327.7
	-E Z SL	PP	05 13 36.0	1.5	0.90	5		
	-E Z SL	XPP	05 13 47.0	1.5	1.00	2		
	-E Z SL	-	05 13 50.0	1.5	1.11	3		
	-E Z SL	-	05 14 04.0	1.5	0.90	2		

GRF	+E Z BE	P	05 13 39.0	1.0	1.70	3	1960 17.7	142.0 330.9
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 16 USCGS  
 H= 06 56 38.9  
 LAT = 32.9 N  
 LONG= 136.7 E  
 DEPTH= 405 KM  
 MAGNITUDE= 4.6  
 SOUTHEAST OF SHIKOKU, JAPAN

GRF	+E Z BE	P	07 08 29.6	1.2	1.88	4	9400 84.6	43.5 327.9
FUR	+E Z SL	P	07 08 34.0	1.5	1.18	5	9520 85.6	43.4 326.8
	+E Z SL	APCP	07 10 08.0	1.5	1.08	2		

MAY 16 USCGS  
 H= 07 03 22.2  
 LAT = 27.5 S  
 LONG= 176.6 W  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.4  
 KERMADEC ISLANDS REGION

BNS	-E Z FS	PKP	07 23 41.0				17390 156.4	8.4 354.1
	+I Z FS	-	07 23 53.0	2.0	2.00			
GRF	-E Z BE	PKP	07 23 44.2	1.3	1.90	3	17470 157.1	18.0 346.9
FUR	+E Z SL	PKP	07 23 14.0	1.5	0.90	5	17630 158.5	19.3 345.5
	+I Z SL	PKP2	07 23 50.0	1.5	1.26	4		
	-E Z SL	APKP	07 24 00.0	2.0	1.06	3		

MAY 16 USCGS  
 H= 07 26 58.7  
 LAT = 39.2 N  
 LONG= 21.8 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.2  
 GREECE

MAY 16 BCIS  
 H= 07 26 58.0  
 LAT = 38.8 N  
 LONG= 21.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

USCGS= FELT AT TRIKALA, LAMIA AND LARISA.

FUR	-E Z SL	P	07 29 49.0	1.2	1.84	1	1310 11.8	136.0 323.3
	-I Z SL	XPP	07 30 08.0	1.5	1.40	9		
	-I Z SL	SS	07 32 03.0	1.5	1.26	2		
	+I Z SL	-	07 32 25.0	1.5	1.40	5		
	Z SL	MAXIMUM	07 35 00.0	3.0	2.92			

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	-E Z HE	P	07 30 08.0	0.8	1.34	2	1440 12.9	140.5 327.9
STU	E Z BE	P	07 30 06.3	0.8	2.03	5	1470 13.2	132.1 320.8
BUH	E Z GT	P	07 30 10.5	1.0	0.87		1510 13.6	129.3 318.7
KRL	+E Z ST	P	07 30 10.9	0.9	2.16	2	1530 13.7	130.8 320.1
BNS	I Z FS	P	07 30 44.4	1.4	2.11	6	1740 15.6	133.4 323.8
	E N FS	S	07 33 23.-					
	E FS	Lr	07 36 59.-					

MAY 16  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	Pg	12 43 01.2	0.4	0.78	2		
	E R BE	Sg	12 43 25.7					

MAY 16  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	Pg	12 46 32.6	0.4	1.08	4		
	E R BE	Sg	12 47 00.-					

MAY 16 NFB  
H= 16 05 01.1  
LAT = 50.6 N  
LONG= 7.3 E  
DEPTH= 0 KM (GEOPHYSICIST)  
NO MAGNITUDE COMPUTED  
GERMANY

NFB = QUARRYBLAST AT MEHRBERG/LINZ, SHOTPOINT NO. 14  
H= 16 05 01.10, 50 DEG 36 MIN 32 SEC N, 7 DEG 17 MIN 49 SEC E  
HEIGHT= 400 METERS, CHARGE= 3050 KILO.

BNS	+I Z X	Pg	16 05 08.8				40 0.4	167.7 347.8
	I N X	Sg	16 05 15.4	0.8				

MAY 16 USCGS  
H= 16 18 46.8  
LAT = 0.5 S  
LONG= 99.4 E  
DEPTH= 50 KM  
MAGNITUDE= 5.1  
SOUTHERN SUMATRA

GRF	E Z BE	P	16 31 38.8				9920 89.2	91.7 319.5
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MAY 16  
NO DETERMINATION OF EPICENTER

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	+I Z SL	-	17 20 22.0	1.5	1.39	4		
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MAY 16  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	17 51 17.0	1.5	0.90	5		
	+E Z SL	-	17 51 25.0	1.5	1.00	6		

MAY 17 USCGS  
H= 05 51 30.3  
LAT = 28.3 S  
LONG= 12.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
SOUTH ATLANTIC RIDGE

FUR	+E Z SL	P	06 03 45.0	1.5	0.70	1	8800 79.2	201.5 16.2
	+E Z SL	PCP	06 03 48.0	1.5	0.90	5		
	-E Z SL	XP	06 03 56.0	1.8	1.45	2		
	+E Z SL	XPCP	06 04 08.0	1.7	1.34	3		
	-E Z SL	-	06 04 23.0	2.2	1.75	3		

GRF	E Z BE	P	06 03 45.5	1.2	1.51	2	8960 80.6	201.4 15.6
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MAY 17  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	07 56 04.6	0.4	0.90	3		
	E Z BE	Sg	07 56 19.4					

MAY 17  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	10 45 41.0	2.0	1.76	2		
	-E Z SL	-	10 45 49.0	1.5	0.90	3		

MAY 17  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	Pg	12 45 48.0	0.4	1.00	3		
	+I R BE	Sg	12 46 06.6	0.8	1.48	5		

MAY 17  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 36 21.0	1.5	0.70	3		
	-E Z SL	-	13 37 09.0	1.5	1.08	4		
	+E Z SL	-	13 37 45.0	2.0	1.69	1		

GRF	E Z BE	-	13 37 01.4					
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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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MAY 18 USCGS  
 H= 00 15 31.5  
 LAT = 9.0 S  
 LONG= 158.4 E  
 DEPTH= 16 KM  
 MAGNITUDE= 5.6  
 SOLOMON ISLANDS

FUR	+E Z SL	PKP	00 34 45.0	1.5	0.90	3	14700	132.2	46.3 330.7
	-E Z SL	APKP	00 34 53.0	1.5	1.00	1			
	-E Z SL	PP	00 37 12.0	1.5	0.90	3			
	-E Z SL	APP	00 37 18.0	1.5	1.00	6			
	+E Z SL	-	00 38 23.0	1.5	1.00	3			

MAY 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	01 43 23.0	1.5	0.90	9			
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MAY 18 USCGS  
 H= 08 44 03.6  
 LAT = 60.3 N  
 LONG= 146.0 W  
 DEPTH= 6 KM  
 MAGNITUDE= 5.4  
 SOUTHERN ALASKA

BNS	I Z FS	P	08 54 56.6	1.4	1.85	3	7450	67.0	345.9 18.1
	I Z FS	-	08 55 03.5						
	E FS	S	09 04 00.-						
	E Z SL	LR	09 21 00.-						
	Z SL	MAXIMUM	09 29 00.-	14.0					

GRF	+E Z BE	P	08 55 10.5	1.0	1.38	3	7660	68.8	348.1 15.6
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KRL	+E Z ST	P	08 55 12.9	1.0	2.31	3	7680	69.1	346.7 17.7
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BUH	E Z GT	P	08 55 14.-				7720	69.4	346.6 17.9
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FUR	-I Z SL	P	08 55 20.0	1.6	1.49	9	7820	70.3	348.2 15.9
	-E Z SL	-	08 55 24.0	1.5	1.40	4			
	+E Z SL	PP	08 55 41.0	1.5	1.08	4			

MAY 18 USCGS  
 H= 13 29 55.4  
 LAT = 19.5 S  
 LONG= 66.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 MASCARENE ISLANDS REGION

FUR	+E Z SL	P	13 42 20.0	1.5	1.11	8	9260	83.2	129.2 326.6
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221

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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MAY 18 USCGS  
 H= 20 56 22.4  
 LAT = 41.4 N  
 LONG= 142.4 E  
 DEPTH= 52 KM  
 MAGNITUDE= 4.8  
 HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	21 08 26.9	1.1	1.65	3	8860	79.7	35.2 330.2
FUR	-E Z SL	P	21 08 29.0	1.6	1.08	6	9000	80.9	35.0 329.3
	-E Z SL	PCD	21 08 35.0	1.5	0.90	3			
	-E Z SL	XPCP	21 08 50.0	1.5	0.90	1			

MAY 19 USCGS  
 H= 05 37 21.9  
 LAT = 21.1 S  
 LONG= 174.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 TONGA ISLANDS

GRF	E Z BE	PKP	05 57 15.-				16800	151.1	11.4 352.1
FUR	+E Z SL	PKP	05 57 06.0	1.5	0.90	3	16970	152.6	12.1 351.4
	-E Z SL	XPKP	05 57 17.0	1.5	0.85	4			
	+E Z SL	PKP2	05 57 22.0	1.5	0.90	5			
	-E Z SL	-	05 57 27.0	1.5	1.00	3			
	-E Z SL	APKP	05 57 33.0	1.5	0.90	3			

MAY 19  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	-	13 43 04.-						
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MAY 19  
 NO DETERMINATION OF EPICENTER

GRF	+E Z HE	PG	13 58 07.0	0.5	0.90	2			
	-E R HE	SG	13 58 25.5	0.4	0.85	2			

MAY 19 USCGS  
 H= 18 14 24.0  
 LAT = 37.8 N  
 LONG= 35.1 E  
 DEPTH= 34 KM  
 MAGNITUDE= 4.6  
 TURKEY

222

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 19 BCIS  
 H= 18 14 26.0  
 LAT = 37.8 N  
 LONG= 35.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

FUR	+E Z SL	P	18 18 59.0	1.5	1.25	4	2250	20.2	112.1 308.5
	-E Z SL	PP	18 19 14.0	1.6	1.15	4			
	-E Z SL	-	18 19 39.0	1.6	1.30	3			
	+E Z SL	-	18 20 39.0	1.5	0.90	5			
GRF	E Z BE	P	18 19 06.0				2320	20.9	115.7 312.4
BNS	E Z FS	P	18 19 35.5			2	2640	23.7	112.9 312.7

MAY 19  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	20 40 56.0	1.2	2.09	5			
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MAY 20 USCGS  
 H= 03 08 21.2  
 LAT = 54.6 S  
 LONG= 130.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 SOUTH PACIFIC CORDILLERA

FUR	+E Z SL	PKP	03 28 15.0	1.5	1.00	2	17320	155.8	240.4 89.7
	-E Z SL	PKP2	03 28 42.0	1.5	1.08	2			

MAY 20  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	07 59 51.0	1.0	1.98	1			
	-E Z SL	-	07 59 55.0	1.5	1.00	3			
	-E Z SL	-	08 00 01.0	1.5	1.00	3			

MAY 20 BCIS  
 H= 11 18 37.0  
 LAT = 49.1 N  
 LONG= 6.8 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 NO MAGNITUDE COMPUTED  
 FRANCE

BCIS = QUARRYBLAST AT MERLEBACH/MOSEL.

BUH	-I Z BT	P	11 18 55.2	0.1	0.34		110	1.0	294.8 113.7
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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 20 USCGS  
 H= 14 59 38.9  
 LAT = 43.4 N  
 LONG= 147.5 E  
 DEPTH= 25 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	-E Z BE	P	15 11 47.3	0.8	1.56	4	8860	79.7	30.8 332.9
FUR	-E Z SL	P	15 11 53.0	2.0	1.69	6	9010	81.0	30.7 332.0
	+E Z SL	AP	15 12 03.0	1.3	1.70	3			

MAY 20  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 29 25.0	1.5	0.85	2			
	-E Z SL	-	18 29 37.0	1.5	0.90	3			

MAY 20 USCGS  
 H= 19 15 37.2  
 LAT = 19.6 S  
 LONG= 66.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 MASCARENE ISLANDS REGION

FUR	-E Z SL	P	19 28 00.0	1.5	1.00	6	9270	83.4	129.1 326.5
	+E Z SL	XP	19 28 14.0	1.5	0.90	5			

MAY 20 USCGS  
 H= 22 29 47.5  
 LAT = 15.2 S  
 LONG= 172.6 W  
 DEPTH= 37 KM  
 MAGNITUDE= 4.4  
 SAMOA ISLANDS REGION

GRF	-E Z BE	PKP	22 49 23.0				16180	145.5	6.4 355.7
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MAY 21 USCGS  
 H= 02 56 49.2  
 LAT = 11.7 N  
 LONG= 125.8 E  
 DEPTH= 26 KM  
 MAGNITUDE= 5.2  
 SAMAR, PHILIPPINE ISLANDS

FUR	+E Z SL	P	03 10 21.0	2.0	1.81	8	10780	97.0	63.9 322.1
	+E Z SL	AP	03 10 30.0	2.0	1.91	5			

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-E Z SL	XP		03 10 34.0	2.0	1.69	2		
-E Z SL	APP		03 14 29.0	1.5	0.90	5		
+E Z SL	-		03 16 36.0	1.5	1.00	6		
Z SL	MAXIMUM		03 58 20.0	14.0	3.20			
BNS	E Z FS	P	03 10 29.-			2	10900 98.0	60.3 325.9
	E FS	PP	03 14 30.8					
	E FS	-	03 23 11.-					

 MAY 21  
 NO DETERMINATION OF EPICENTER

GRF E Z BE - 14 22 44.-

 MAY 21  
 NO DETERMINATION OF EPICENTER

FUR +E Z SL - 14 27 10.0 1.5 0.90 3

 MAY 21 USCGS  
 H= 15 02 29.6  
 LAT = 16.5 S  
 LONG= 173.2 W  
 DEPTH= 25 KM  
 MAGNITUDE= 4.5  
 TONGA ISLANDS

FUR -E Z SL XPKP 15 22 33.0 1.3 1.70 2 16480 148.2 8.1 354.3

 MAY 21 USCGS  
 H= 15 31 59.9  
 LAT = 36.4 N  
 LONG= 70.2 E  
 DEPTH=229 KM  
 MAGNITUDE= 5.0  
 HINDU KUSH REGION

 FUR -E Z SL P 15 39 48.0 1.5 0.90 3 4900 44.1 82.9 304.6  
 -E Z SL PCP 15 41 24.0 1.5 1.00 3

 MAY 21  
 NO DETERMINATION OF EPICENTER

 BNS E Z FS SG 15 56 46.3  
 E Z FS - 15 56 55.-

 MAY 21  
 NO DETERMINATION OF EPICENTER

GRF E Z BE - 16 32 07.-

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 MAY 21  
 NO DETERMINATION OF EPICENTER

GRF E Z HE - 16 36 57.-

 MAY 21 USCGS  
 H= 18 56 34.9  
 LAT = 19.6 N  
 LONG= 109.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 REVILLA GIGEDO ISLANDS REGION

GRF E Z BE PP 19 14 45.- 10360 93.2 305.4 34.2

 MAY 21 USCGS  
 H= 21 45 19.2  
 LAT = 44.0 N  
 LONG= 149.6 E  
 DEPTH= 40 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF -E Z BE P 21 57 26.4 0.4 0.85 8880 79.9 29.2 334.0

 FUR +E Z SL P 21 57 33.0 1.0 1.76 3 9030 81.2 29.1 333.2  
 -E Z SL PCP 21 57 36.0 1.2 1.84 3  
 -E Z SL APCP 21 57 44.0 1.5 0.90 5  
 -E Z SL XPCP 21 57 51.0 1.5 0.90 5

 MAY 22 USCGS  
 H= 21 34 34.6  
 LAT = 27.4 N  
 LONG= 140.1 E  
 DEPTH=395 KM  
 MAGNITUDE= 4.5  
 BONIN ISLANDS REGION

FUR -E Z SL P 21 47 01.0 1.5 0.90 5 10220 91.9 43.9 328.5

 MAY 23 USCGS  
 H= 13 04 36.6  
 LAT = 53.4 N  
 LONG= 160.2 W  
 DEPTH= 32 KM  
 MAGNITUDE= 5.6  
 SOUTH OF ALASKA

HAM E Z ZX P 13 16 07.- 2 8140 73.2 353.8 6.2

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
BNS	-I Z FS	P	13 16 19.7	2.4	2.48	7	8390	75.5	352.2 8.2
	I Z FS	-	13 16 29.5						
	E FS	PP	13 19 13.-						
	E Z SL	LP	13 42 00.-						
	Z SL	MAXIMUM	13 58 00.-	22.0					
GRF	-E Z HE	P	13 16 29.1	0.9	1.43	3	8570	77.1	354.7 5.7
	E Z HE	-	13 27 39.-						
BUH	-E Z GT	P	13 16 33.5	1.0	1.47		8660	77.9	352.9 7.8
FUR	+E Z SL	P	13 16 36.0	1.5	1.71	9	8740	78.6	354.8 5.8
	-E Z SL	PCP	13 16 46.0	1.5	1.43	2			
	+E Z SL	XP	13 16 50.0	1.5	1.30	1			
	-E Z SL	XDCP	13 17 01.0	1.8	1.83	1			
	+E Z SL	PP	13 19 39.0	2.0	1.69	6			

MAY 23 USCGS  
 H= 21 54 21.5  
 LAT = 14.6 S  
 LONG= 167.4 E  
 DEPTH=177 KM  
 MAGNITUDE= 4.7  
 NEW HEBRIDES ISLANDS

FUR -E Z SL PKP 22 13 27.0 1.5 0.90 5 15690 141.1 38.7 334.4

MAY 24 BCIS  
 H= 05 59 12.0  
 LAT = 28.0 N  
 LONG= 34.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 RED SEA

BCIS = FELT.

FUR +E Z SL P 06 04 54.0 1.8 1.45 3 2980 26.8 130.6 324.9  
 -E Z SL XP 06 05 07.0 1.5 0.90 3  
 -E Z SL PPP 06 05 46.0 1.5 0.90 5

MAY 24 USCGS  
 H= 11 49 27.0  
 LAT = 36.9 N  
 LONG= 35.4 E  
 DEPTH= 43 KM  
 MAGNITUDE= 4.3  
 TURKEY

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 24 BCIS  
 H= 11 49 28.0  
 LAT = 36.8 N  
 LONG= 35.4 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

USCGS= STRONGLY FELT AT ADANA.

FUR -E 0 SL P 11 54 12.0 1.5 0.90 3 2330 20.9 113.5 310.0  
 -E Z SL Ap 11 54 20.0 1.5 1.00 3  
 -E Z SL XP 11 54 25.0 1.5 1.00 2  
 +E Z SL PP 11 54 31.0 1.5 0.90 2  
 +E Z SL PPP 11 54 43.0 1.5 0.90 2  
 -E Z SL - 11 54 51.0 1.5 1.00 6

GRF E Z HE P 11 54 24.0 1.0 1.00 1 2400 21.6 117.0 313.7

MAY 24  
 NO DETERMINATION OF EPICENTER

GRF -E Z HE PG 12 40 10.8 0.5 0.90 2  
 E Z HE - 12 40 29.0  
 E Z HE - 12 40 33.3 0.6 1.28 3  
 E Z HE - 12 40 57.0 0.5 1.23 4

MAY 25 USCGS  
 H= 11 32 34.6  
 LAT = 27.6 N  
 LONG= 34.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 RED SEA

MAY 25 BCIS  
 H= 11 32 37.0  
 LAT = 27.5 N  
 LONG= 33.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 RED SEA

FUR -I Z SL P 11 38 23.0 1.4 1.56 8 3010 27.1 131.2 325.4  
 -E Z SL Ap 11 38 31.0 1.5 0.90 5  
 +E Z SL XP 11 38 37.0 1.5 1.00 1  
 -E Z SL PCP 11 41 39.0 1.5 0.90 1

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MAY 28 USCGS  
 H= 03 35 34.7  
 LAT = 73.8 N  
 LONG= 10.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 NORWEGIAN SEA

FUR	-E Z SL	P	03 41 04.0	1.7	1.65	9	2870	25.8	359.2 178.2
	+E Z SL	Ap	03 41 11.0	1.5	0.90	5			

MAY 28 USCGS  
 H= 03 41 01.8  
 LAT = 11.8 N  
 LONG= 125.8 E  
 DEPTH= 6 KM  
 MAGNITUDE= 5.3  
 SAMAR, PHILIPPINE ISLANDS

GRF	E Z BE	P	03 54 33.5				10710	96.3	63.7 323.5
FUR	+I Z SL	P	03 54 35.0	1.6	1.15	7	10780	97.0	63.9 322.1
	+E Z SL	-	03 54 45.0	1.5	1.18	5			
	+E Z SL	PP	03 54 36.0	1.5	0.90	5			

MAY 28 USCGS  
 H= 03 57 19.4  
 LAT = 73.5 N  
 LONG= 8.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 GREENLAND SEA

MAY 28 BCIS  
 H= 03 57 14.0  
 LAT = 73.5 N  
 LONG= 7.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREENLAND SEA

BNS	E Z FS	P	04 02 17.8	1.5	1.70	2	2510	22.6	0.8 181.7
	E Z FS	-	04 02 45.5						
GRF	+E Z BE	P	04 02 31.4	2.0	2.10	2	2660	23.9	357.9 175.1
BUH	E Z GT	P	04 02 41.2	1.2			2770	24.9	360.0 179.9
FUR	-E Z SL	P	04 02 46.0	1.7	1.80	9	2830	25.4	357.9 175.2
	-I Z SL	Ap	04 02 53.0	1.6	1.30	9			
	-E Z SL	XP	04 03 01.0	1.5	1.23	2			
	-E Z SL	PP	04 03 21.0	2.6	2.10	4			
	-E Z SL	-	04 03 29.0	2.0	1.91	2			

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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	-E Z SL	PPP	04 03 40.0	1.5	1.00	6			
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MAY 28  
 NO DETERMINATION OF EPICENTER

HLG	X	-	13 07 00.-						
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MAY 28 USCGS  
 H= 13 30 08.9  
 LAT = 2.1 S  
 LONG= 76.9 W  
 DEPTH= 177 KM  
 MAGNITUDE= 5.5  
 PERU-ECUADOR BORDER REGION

BNS	+I Z FS	P	13 42 40.0	1.5	2.34	9	9770	87.9	264.1 39.0
	E Z FS	-	13 43 22.8						
	E FS	PP	13 46 06.4						
	E Z SL	S	13 53 04.-						
	E Z SL	-	13 54 09.-						
	SL	MAXIMUM	14 13 00.-				60.0		

BUH	+E Z GT	P	13 42 47.-	1.3			9820	88.3	265.0 41.4
STU	+E Z HE	P	13 42 44.5	1.1	2.32	9	9900	89.0	265.7 41.3
HAM	E Z ZX	P	13 42 49.5			3	9980	89.8	266.2 36.7
	+I Z ZX	-	13 42 52.5			9			

FUR	-I Z SL	P	13 42 51.0	1.9	2.07	9	10050	90.3	267.3 42.0
	+E Z SL	Ap	13 43 43.0	2.0	1.61	5			
	-E Z SL	XP	13 44 02.0	1.5	1.23	2			
	-I Z SL	PP	13 46 31.0	1.5	1.11	2			
	-E Z SL	S	13 53 39.0	1.5	1.00	6			
	+E Z SL	PS	13 55 09.0	2.2	2.04	2			

GRF	-E Z BE	P	13 42 52.2	1.4	2.18	5	10050	90.4	267.2 40.5
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MAY 28  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	14 01 32.0	1.5	0.90	3			
	-E Z SL	-	14 02 33.0	1.5	0.90	5			

MAY 28  
 NO DETERMINATION OF EPICENTER

HLG	I Z X	-	15 30 08.0	0.8	2.63	4			
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FUR	+E Z SL	-	15 31 20.0	1.5	0.90	1			
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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 MAY 28  
NO DETERMINATION OF EPICENTER

HLG	E Z X	-	16 18 33.5	0.8	2.63	5		
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 MAY 28  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	17 05 00.-			7		
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 MAY 28  
NO DETERMINATION OF EPICENTER

HLG	E Z X	-	17 43 43.6	0.8	2.63	5		
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 MAY 29  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	06 40 09.0	1.5	1.08	7		
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MAY 29 USCGS  
 H= 07 17 26.8  
 LAT = 15.0 S  
 LONG= 173.3 W  
 DEPTH= 33 KM  
 MAGNITUDE= 4.9  
 TONGA ISLANDS

FUR	-E Z SL	PKP	07 37 10.0	1.6	1.08	3	16310 146.7	8.2 354.4
	-E Z SL	PKP2	07 37 15.0	1.6	1.15	4		
	+E Z SL	APKP	07 37 19.0	1.5	1.08	2		
	+E Z SL	XPKP	07 37 23.0	1.6	1.20	4		
	-I Z SL	-	07 37 33.0	1.5	1.23	5		

 MAY 29  
NO DETERMINATION OF EPICENTER

FUR	+I Z SL	P	09 47 37.0	1.3	2.00	2		
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MAY 29 USCGS  
 H= 10 22 38.0  
 LAT = 20.3 S  
 LONG= 177.7 W  
 DEPTH=510 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

BNS	-I Z FS	PKP	10 41 29.3	1.2	1.70	2	16590 149.2	9.0 354.0
	E Z FS	-	10 42 02.5					

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	PKP	10 41 30.8	1.0	1.48	2	16660 149.9	16.9 348.4
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FUR	+E Z SL	PKP	10 41 27.0	1.5	0.90	2	16830 151.3	17.8 347.4
	-I Z SL	-	10 41 35.0	1.5	1.11	8		

MAY 29 USCGS  
 H= 11 22 35.0  
 LAT = 20.2 S  
 LONG= 177.7 W  
 DEPTH=510 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.5  
 FIJI ISLANDS REGION

BNS	I Z FS	PKP	11 41 26.4				16580 149.1	9.0 353.9
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 MAY 29  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 31 32.0	1.5	1.00	3		
	+E Z SL	-	14 31 35.0	1.5	1.08	2		

 MAY 29  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 17 11.0	1.5	0.90	5		
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MAY 29 USCGS  
 H= 20 25 56.2  
 LAT = 14.7 N  
 LONG= 90.6 W  
 DEPTH=218 KM  
 MAGNITUDE= 4.8  
 GUATEMALA

FUR	-E Z SL	P	20 38 21.0	1.6	1.08	2	9660 86.9	288.5 41.0
	+E Z SL	PCP	20 38 24.0	1.5	0.90	3		

 MAY 29  
NO DETERMINATION OF EPICENTER

BNS	-E Z FS	P	23 46 15.8	2.3	1.60	2		
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 MAY 30  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PN	13 01 22.6	0.2	0.60	1		
	-I Z BE	PG	13 01 24.6	0.2	1.15	2		
	E R BE	SG	13 01 49.1					



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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 30 USCGS  
 H= 15 16 10.6  
 LAT = 21.1 S  
 LONG= 178.8 W  
 DEPTH=583 KM  
 MAGNITUDE= 4.8  
 FIJI ISLANDS REGION

GRF	-E Z BE	PKP	15 34 59.1	0.9	1.46	2	16720 150.4	19.2 346.7
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MAY 30  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	15 42 58.5					
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MAY 30 USCGS  
 H= 15 55 37.1  
 LAT = 32.2 S  
 LONG= 178.1 W  
 DEPTH= 34 KM  
 MAGNITUDE= 5.2  
 SOUTH OF KERMADEC ISLANDS

BNS	-E Z FS	PKP	16 16 16.5	2.0	1.95	3	17890 160.9	13.8 349.8
	E Z FS	-	16 16 24.-					

GRF	+E Z BE	PKP	16 16 19.8	1.5	2.33	7	17930 161.2	25.2 340.9
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FUR	+I Z SL	PKP2	16 16 25.0	1.7	2.24	8	18080 162.6	27.5 338.6
	Z SL	MAXIMUM	16 59 00.0	18.0	3.67			

MAY 30 USCGS  
 H= 16 22 47.8  
 LAT = 32.3 S  
 LONG= 178.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 SOUTH OF KERMADEC ISLANDS

BNS	E Z FS	PKP	16 43 19.5					
	+I Z FS	-	16 43 26.0	2.0	1.95	2	17900 161.0	13.8 349.7
	+I FS	-	16 43 38.0					

GRF	-E Z BE	PKP	16 43 29.2	1.4	2.10	5	17940 161.3	25.3 340.9
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FUR	-E Z SL	PKP	16 42 50.0	2.0	1.76	2	18090 162.7	27.5 338.6
	+I Z SL	PKP2	16 43 36.0	1.5	1.83	9		
	-E Z SL	PP	16 47 25.0	2.2	2.04	2		
	Z SL	MAXIMUM	17 19 00.0	17.0	3.61			

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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MAY 31 USCGS  
 H= 05 01 56.6  
 LAT = 50.0 N  
 LONG= 77.7 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.4  
 EASTERN KAZAKH SSR

MAY 31 BCIS  
 H= 05 02 00.0  
 LAT = 50.5 N  
 LONG= 77.8 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 NO MAGNITUDE COMPUTED  
 EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

GRF	-E Z BE	P	05 09 49.3	1.0	1.64	6	4630 41.6	63.1 296.2
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FUR	-E Z SL	P	05 09 54.0	1.0	1.58	1	4700 42.3	61.6 294.2
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MAY 31  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	09 29 22.1	0.2	0.90	2		
	E Z BE	SG	09 29 35.6					

MAY 31 USCGS  
 H= 11 07 17.1  
 LAT = 1.8 S  
 LONG= 77.7 W  
 DEPTH=172 KM  
 MAGNITUDE= 5.1  
 ECUADOR

BNS	+I Z FS	P	11 19 50.4	1.4	1.78	3	9800 88.1	265.0 39.1
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FUR	+E Z SL	P	11 20 02.0	1.5	1.23	3	10080 90.6	268.1 42.0
	+E Z SL	PP	11 23 32.0	1.6	1.08	3		
	-E Z SL	S	11 30 35.0	2.6	2.04	1		

MAY 31  
 NO DETERMINATION OF EPICENTER

HLG	Z X	-	11 59 57.1	0.8	2.63	5		
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MAY 31  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 24 34.4	0.4	0.85	3		
	E R BE	SG	12 24 55.-					

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MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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 MAY 31  
NO DETERMINATION OF EPICENTER

HLG	Z X -		18 25 40.6	0.8	2.58	4			
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 MAY 31  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	19 03 22.5						
	E Z BE	PG	19 03 28.8						
	E Z HE	SG	19 04 06.-						

 MAY 31 USCGS  
 H= 22 09 19.5  
 LAT = 16.0 S  
 LONG= 173.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 TONGA ISLANDS

BNS	E Z FS	PKP	22 28 54.4	1.5	1.48	2	16140	145.2	0.3 359.8
GRF	-E Z BE	PKP	22 28 59.0	2.0	2.14	3	16260	146.3	7.3 355.1
FUR	-E Z SL	PKP	22 29 02.0	1.5	1.11	4	16430	147.8	7.7 354.7
	+E Z SL	APKP	22 29 13.0	1.5	0.90	1			
	+E Z SL	APKP	22 29 19.0	1.5	0.90	3			

 MAY 31 USCGS  
 H= 22 24 32.0  
 LAT = 16.0 S  
 LONG= 172.9 W  
 DEPTH= 15 KM  
 MAGNITUDE= 5.2  
 SAMOA ISLANDS REGION

BNS	+I Z FS	PKP	22 44 09.5	2.0	2.00	3	16130	145.1	0.1 359.9
	E Z FS	-	22 44 19.5						
GRF	-E Z BE	PKP	22 44 14.4	1.8	2.38	7	16260	146.2	7.1 355.2
KRL	+E Z ST	PKP	22 44 16.1	2.5	2.74	3	16350	147.0	2.3 358.4
BUH	-I Z GT	PKP	22 44 17.4	2.0	1.96		16390	147.4	2.0 358.6
FUR	+E Z SL	PKP	22 44 15.0	1.7	1.34	5	16420	147.7	7.5 354.8
	-I Z SL	-	22 44 18.0	1.7	1.83	3			
	+I Z SL	APKP	22 44 27.0	1.5	1.52	3			

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MAY 1969

MAY 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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 MAY 31 USCGS  
 H= 23 56 21.6  
 LAT = 4.9 S  
 LONG= 154.2 E  
 DEPTH= 403 KM  
 MAGNITUDE= 5.5  
 SOLOMON ISLANDS

GRF	-E Z BE	PKP	00 14 37.0	1.0	1.30	2	13960	125.5	47.5 331.3
BNS	-I Z FS	PKP	00 14 38.8	1.5	1.78	3	14060	126.5	42.4 334.7
	E Z FS	-	00 17 21.-						
FUR	+I Z SL	PKP	00 14 39.0	1.6	1.49	4	14070	126.5	48.3 329.9
	+E Z SL	-	00 17 21.0	1.5	1.18	5			
	-E Z SL	-	00 19 33.0	1.5	0.90	1			
STU	-E Z BE	PKP	00 14 40.0	1.1	2.03	6	14140	127.1	45.7 331.6
BUH	+E Z GT	PKP	00 14 41.0	1.5	1.44		14190	127.6	44.7 332.1

 JUN 01  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	00 34 47.0	1.5	0.90	1			
	-E Z SL	-	00 35 21.0	1.5	0.90	3			
	+E Z SL	-	00 35 26.0	1.5	1.00	3			

 JUN 01  
NO DETERMINATION OF EPICENTER

HLG	Z X -		07 55 56.2	1.0	2.48	2			
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 JUN 01  
NO DETERMINATION OF EPICENTER

HLG	Z X -		14 17 00.-						
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 JUN 01  
NO DETERMINATION OF EPICENTER

HLG	Z X -		15 01 00.-						
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 JUN 01  
NO DETERMINATION OF EPICENTER

HLG	Z X -		15 48 00.-						
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 JUN 01  
NO DETERMINATION OF EPICENTER

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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MLG	Z X	-	16 26 00.0						
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JUN 01 USCGS  
 H= 19 53 12.4  
 LAT = 31.7 S  
 LONG= 178.2 W  
 DEPTH= 17 KM  
 MAGNITUDE= 5.0  
 KERMADEC ISLANDS REGION

BNS	E Z FS	PKP	20 13 53.0				17830	160.4	13.7 349.9
GRF	+E Z BE	PKP2	20 13 55.1	1.8	2.00	2	17870	160.7	24.9 341.3
FUR	+I Z SL	PKP2	20 14 00.0	1.5	1.23	5	18020	162.1	27.0 339.1
	-E Z SL	XPKP	20 14 16.0	1.8	1.71	2			

JUN 01 USCGS  
 H= 21 26 24.5  
 LAT = 15.9 S  
 LONG= 173.4 W  
 DEPTH= 253 KM  
 MAGNITUDE= 4.1  
 TONGA ISLANDS

BNS	E Z FS	PKP	21 45 44.5	2.5	1.85	2	16120	145.0	0.9 359.4
GRF	E Z BE	PKP	21 45 48.6				16240	146.1	7.9 354.7
FUR	+E Z SL	PKP	21 45 51.0	1.8	1.45	3	16410	147.6	8.3 354.2
	-E Z SL	PKP2	21 46 01.0	1.8	1.65	4			

JUN 01 USCGS  
 H= 23 20 30.7  
 LAT = 47.1 N  
 LONG= 14.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 AUSTRIA

JUN 01 BCIS  
 H= 23 20 29.0  
 LAT = 47.0 N  
 LONG= 14.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 AUSTRIA

USCGS= FELT AT CARINTHIE AND STYRIE I=V-VI

FUR	-E Z SL	PN	23 21 08.0	1.9	1.85	4	260	2.3	117.1 299.4
	-E Z SL	SN	23 21 34.0	1.5	1.92	3			

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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	Z SL	MAXIMUM	23 22 30.0	1.5	2.62				
GRF	-E Z BE	PN	23 21 21.0	0.6	1.94	9	370	3.3	140.9 323.1
STU	-E Z BE	PN	23 21 27.9	0.5	1.86	7	430	3.8	114.5 298.3
	E E BE	SG	23 22 28.9						
FEL	-E Z ST	PN	23 21 35.1	0.5	1.54	5	480	4.3	98.4 283.0
	+E Z ST	SN	23 22 24.5	0.6	2.44	9			
BUH	+I Z GT	P	23 21 36.0	0.2	0.93		490	4.4	109.2 293.7
HEI	-E Z ST	PN	23 21 35.9				490	4.4	120.0 304.1
	E Z ST	SG	23 22 47.0	1.0	2.93	5			
KRL	+E Z ST	PN	23 21 36.5	1.0	2.01	2	490	4.4	114.0 298.4
TNS	E	P	23 21 45.0				560	5.0	127.0 311.3
	I	S	23 22 41.0						
BNS	I Z X	PN	23 22 00.5	0.5	1.90	6	680	6.1	127.0 312.4
	I Z X	-	23 22 08.5						
	E X	-	23 23 04.9						
	I N X	SN	23 23 06.0						
	I Z X	SG	23 23 43.0						
	E X	-	23 23 47.0	1.4	2.66				

JUN 02 USCGS  
 H= 03 57 30.1  
 LAT = 47.0 N  
 LONG= 14.3 E  
 DEPTH= 29 KM  
 MAGNITUDE= 4.1  
 AUSTRIA

JUN 02 BCIS  
 H= 03 57 29.0  
 LAT = 47.1 N  
 LONG= 14.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 AUSTRIA

USCGS= FELT. I=IV-V

FUR	-I Z SL	PN	03 58 11.0	1.3	2.18	3	260	2.3	118.4 300.6
	-I Z SL	PB	03 58 15.0	1.5	1.76	2			
	-I Z SL	PG	03 58 25.0	1.5	1.52	3			
	+I Z SL	SN	03 58 36.0	1.5	1.76	2			
	Z SL	MAXIMUM	03 59 30.0	1.5	2.50				
GRF	-E Z BE	PN	03 58 21.3	0.6	1.79	9	370	3.3	141.6 323.9
	E Z BE	PG	03 58 29.6						
STU	-E Z BE	PN	03 58 27.6	0.6	1.51	4	430	3.8	115.3 299.0
	E E BE	SG	03 59 28.6						

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
BUH	E Z GT	P	03 58 36.-	0.2	0.70		490	4.4	109.9 294.3
HEI	E Z ST	PN	03 58 35.7				490	4.4	120.6 304.7
	E N ST	SG	03 59 45.2	1.5	3.35	9			
KRL	+E Z ST	PN	03 58 38.3	1.0	2.01	3	490	4.4	114.7 299.0
TNS	E	P	03 58 45.5				560	5.0	127.5 311.9
	I	S	03 59 42.0						
BNS	E Z X	PN	03 59 00.7				680	6.1	127.5 312.8
	-I Z X	-	03 59 09.0	1.0	1.78				
	I X	SN	04 00 05.8						
	E Z X	SG	04 00 42.5	0.8	2.15				
	E N X	-	04 00 51.-	1.4	2.48				
	E X	-	04 00 52.-	1.0	2.43				

JUN 02 USCGS  
 H= 09 47 59.4  
 LAT = 59.5 N  
 LONG= 144.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 GULF OF ALASKA

BNS	E Z FS	P	09 58 55.0				7520	67.6	344.9 18.8
	E Z FS	PP	10 01 33.-						
	E FS	LR	10 22 00.-						
FUR	+E Z SL	P	09 59 18.0	1.5	1.00	3	7890	71.0	347.3 16.8
	-E Z SL	AP	09 59 24.0	2.0	1.61	5			
	-E Z SL	PCP	09 59 34.0	1.5	0.90	5			
	-E Z SL	XPCP	09 59 50.0	1.5	1.00	1			
	-E Z SL	PP	10 01 54.0	2.0	1.61	5			

JUN 02  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	10 55 51.4						
	E Z BE	SG	10 56 45.-						

JUN 02 USCGS  
 H= 11 07 36.6  
 LAT = 8.4 S  
 LONG= 74.3 W  
 DEPTH=149 KM  
 MAGNITUDE= 5.0  
 PERU-BRAZIL BORDER REGION

FUR	E E SL	Xpp	11 25 17.0	1.5	1.61	3	10370	93.3	261.1 42.0
	E E SL	-	11 26 06.0	1.8	1.96	2			

JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
JUN 03 USCGS H= 03 58 01.5 LAT = 19.1 N LONG= 107.5 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.1 OFF COAST OF JALISCO, MEXICO									
FUR	-E Z SL	P	04 11 18.0	1.5	0.90	5	10410	93.6	303.8 36.0
	-E Z SL	PP	04 15 05.0	2.6	1.90	2			

JUN 03  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	10 44 48.6	0.6	1.00	1			
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JUN 03  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	17 30 13.0	1.8	1.65	2			
	-E Z SL	-	17 30 32.0	1.6	1.00	3			

JUN 03 USCGS  
 H= 21 53 06.5  
 LAT = 40.2 N  
 LONG= 143.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	22 05 21.4	1.1	1.65	3	9030	81.2	34.9 331.0
FUR	-E Z SL	P	22 05 27.0	1.6	1.00	5	9170	82.5	34.8 330.1

JUN 04 USCGS  
 H= 00 39 57.5  
 LAT = 41.4 N  
 LONG= 79.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 KIRGIZ-SINKIANG BORDER REGION

GRF	+I Z BE	P	00 48 27.9	1.0	1.79	4	5230	47.0	72.9 304.5
	+I Z BE	AP	00 48 34.1	0.6	1.54	8			
FUR	+E Z SL	P	00 48 31.0	1.5	1.11	2	5270	47.4	71.0 302.2
	-I Z SL	AP	00 48 37.0	1.5	1.26	2			

JUN 1969

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 04 USCGS  
 H= 04 38 39.0  
 LAT = 32.3 S  
 LONG= 177.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 SOUTH OF KERMAUEC ISLANDS

GRF	E Z BE	PKP2	04 59 18.9				17940 161.4	24.5 341.4
FUR	-E Z SL	APKP	04 58 49.0	1.5	0.85	4	18100 162.7	26.7 339.2
	+E Z SL	XPKP	04 58 55.0	1.5	0.90	5		
	-I Z SL	PKP2	04 59 28.0	1.5	1.11	8		
	-E Z SL	APKP	04 59 41.0	1.5	0.90	3		
	-E Z SL	-	04 59 51.0	1.5	1.18	5		
	+E Z SL	-	05 00 06.0	1.5	0.90	1		

JUN 04  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	11 05 10.3					
	+E Z BE	PG	11 05 17.9	0.6	1.11	4		
	E R BE	SG	11 05 44.9					

JUN 04 USCGS  
 H= 12 11 47.4  
 LAT = 2.8 S  
 LONG= 126.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 CERAM SEA

FUR	-E Z SL	SKKS	12 49 01.0	1.5	1.08	2	12090 108.7	72.6 320.2
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JUN 04  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	12 46 53.5					
	-I Z BE	PG	12 46 57.7	0.4	0.90	2		
	E Z BE	SG	12 47 16.3					

JUN 04 USCGS  
 H= 14 16 26.0  
 LAT = 16.3 S  
 LONG= 172.7 W  
 DEPTH= 43 KM  
 MAGNITUDE= 4.9  
 SAMOA ISLANDS REGION

BNS	E Z FS	PKP	14 36 05.5				16170 145.4	359.8 0.1
	I Z FS	-	14 36 22.4					

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	PKP	14 36 04.1	2.0	2.18	2	16290 146.5	6.9 355.4
FUR	+E Z SL	PKP	14 36 08.0	1.9	1.84	9	16460 148.0	7.3 355.0
	-E Z SL	PKP2	14 36 14.0	1.5	1.23	3		
	+E Z SL	APKP	14 36 25.0	1.5	0.90	5		
	-I Z SL	-	14 36 48.0	1.5	1.23	9		
	+E Z SL	SKKKS	14 47 08.0	1.5	1.00	2		

JUN 04 USCGS  
 H= 16 21 31.4  
 LAT = 16.2 S  
 LONG= 173.0 W  
 DEPTH= 42 KM  
 MAGNITUDE= 4.9  
 TONGA ISLANDS

BNS	+I Z FS	PKP	16 41 06.3	1.0	1.78	4	16160 145.3	0.3 359.8
	E Z FS	-	16 43 13.3					
GRF	-E Z BE	PKP	16 41 11.0	1.2	1.80	6	16280 146.4	7.4 355.0
BUH	E Z GT	PKP	16 41 13.5				16410 147.6	2.2 358.5
FUR	-I Z SL	PKP	16 41 14.0	1.7	1.65	9	16450 147.9	7.8 354.6
	-I Z SL	PKP2	16 41 20.0	1.6	1.30	9		
	+E Z SL	APKP	16 41 32.0	2.0	1.61	5		
	+E Z SL	-	16 41 56.0	2.0	1.76	7		
	+E Z SL	-	16 42 15.0	2.0	1.81	8		

JUN 04  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 27 57.0	1.5	1.08	1		
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JUN 04 USCGS  
 H= 20 35 10.1  
 LAT = 11.9 N  
 LONG= 43.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NORTH ATLANTIC RIDGE

FUR	-E Z SL	P	20 45 03.0	1.8	1.60	7	6470 58.2	250.8 40.2
	-E Z SL	AP	20 45 10.0	1.5	0.90	2		
	-E Z SL	XP	20 45 15.0	2.0	1.69	6		
	-E Z SL	-	20 45 33.0	1.5	1.08	7		

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 05 USCGS  
 H= 00 22 45.9  
 LAT = 16.2 S  
 LONG= 172.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 SAMOA ISLANDS REGION

BNS	+I Z FS	PKP	00 42 21.8	0.9	1.30	2	16160 145.3	0.1 359.9
GRF	+I Z HE	PKP	00 42 27.1	1.2	1.75	6	16280 146.4	7.1 355.2
FUR	+E Z SL	PKP	00 42 30.0	1.5	1.08	7	16450 148.0	7.6 354.7
	+E Z SL	PKP2	00 42 36.0	1.5	1.11	4		
	+E Z SL	APKP	00 42 47.0	1.5	0.90	3		
	-E Z SL	=	00 42 55.0	1.5	0.90	5		
	+E Z SL	PP	00 46 01.0	1.5	0.90	5		
	-E Z SL	APP	00 46 10.0	1.5	1.00	6		
	-E Z SL	XPP	00 46 15.0	2.0	1.61	1		

JUN 05 USCGS  
 H= 09 15 10.8  
 LAT = 2.5 N  
 LONG= 99.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 WEST OF GALAPAGOS ISLANDS

GRF	E Z HE	PP	09 33 58.-				11280 101.5	287.8 38.2
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JUN 05 USCGS  
 H= 10 45 43.5  
 LAT = 4.9 N  
 LONG= 96.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 NORTHERN SUMATRA

GRF	E Z BE	P	10 58 08.-				9240 83.1	90.6 319.3
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JUN 05  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	12 48 48.0					
	E R HE	SG	12 49 05.7	0.6	1.00	4		

JUN 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	13 06 14.7					
	E R HE	SG	13 06 42.3					

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 05 USCGS  
 H= 20 39 58.9  
 LAT = 10.7 N  
 LONG= 41.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 NORTH ATLANTIC RIDGE

BNS	+I Z FS	P	20 49 36.7	2.0	1.95	3	6240 56.1	241.9 34.6
	E Z FS	=	20 50 12.3					
	E FS	S	20 57 34.-					
FUR	+E Z SL	P	20 49 45.0	1.7	1.85	4	6380 57.3	247.5 39.0
	+I Z SL	AP	20 49 53.0	1.5	1.40	3		
	-I Z SL	PCP	20 50 36.0	1.5	1.18	2		
	-E Z SL	APCP	20 50 47.0	1.5	1.11	4		
	+E Z SL	XPCP	20 50 53.0	1.5	1.23	3		
	+E Z SL	=	20 51 23.0	1.5	1.23	2		
	-I Z SL	PP	20 51 58.0	1.5	1.23	2		
	-E Z SL	XPP	20 52 10.0	1.5	0.90	3		
	+E Z SL	PPP	20 53 18.0	1.5	0.90	5		
	+E Z SL	SP	20 57 51.0	3.0	2.10	1		
GRF	-E Z HE	P	20 49 51.9	1.6	1.86	2	6440 57.9	246.5 37.3

JUN 06 BCIS  
 H= 05 27 23.0  
 LAT = 48.3 N  
 LONG= 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 05 27 22.8; 48 DEG 17.0 MIN N; 9 DEG 5.0 MIN E  
 DEPTH 4 KM; ML= 2.6; I=IV

MSS	+E Z ST	PG	05 27 24.9	0.6	1.92	2	10 0.1	36.9 217.0
	-I E ST	SG	05 27 26.7	0.6	3.74	9		
STU	-E Z BE	PG	05 27 32.2	0.5	1.59	4	50 0.5	188.6 8.5
	+I E BE	SG	05 27 39.0	0.5	2.88	9		
RAV	+E N ST	SG	05 27 44.0	0.4	2.12	8	70 0.6	324.7 144.3
BUH	-I Z GT	PG	05 27 35.5	0.1	0.90		80 0.7	124.3 305.0
FEL	+E Z ST	PG	05 27 39.1	0.5	2.10	9	90 0.8	59.9 240.7
	+E E ST	SG	05 27 50.7	0.5	1.96	4		
KRL	+E Z ST	PG	05 27 39.7				90 0.9	148.3 328.8
HEI	-E Z ST	PG	05 27 43.8	0.5	1.22	2	130 1.1	168.0 348.2
	+E E ST	SG	05 27 59.6	0.5	2.29	8		

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
FUR	+E Z SL	PN	05 27 52.0	1.5	0.85	4	160	1.5	275.4 93.8
	-E Z SL	PG	05 27 54.0	1.5	1.18	2			
	Z SL	MAXIMUM	05 28 48.0	1.5	1.11				
GRF	E Z BE	PN	05 27 55.8				220	2.0	225.7 44.1
	-I Z BE	PG	05 28 00.6	0.5	1.30	6			
	E R BE	SG	05 28 26.0						

JUN 06 USCGS  
 H= 07 00 08.6  
 LAT = 46.1 N  
 LONG = 143.1 E  
 DEPTH=326 KM  
 MAGNITUDE= 4.6  
 SAKHALIN ISLAND

GRF	+E Z BE	P	07 11 21.7	0.8	1.60	3	8430	75.8	32.3 330.1
FUR	+E Z SL	P	07 11 29.0	1.5	0.90	1	8570	77.1	32.2 329.2

JUN 06  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	20 47 39.0	1.5	0.90	5			
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JUN 07 USCGS  
 H= 08 43 03.7  
 LAT = 30.7 S  
 LONG = 59.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 ATLANTIC-INDIAN RISE

FUR	-E Z SL	P	08 56 00.0	1.5	1.23	9	9970	89.6	140.1 330.1
	-E Z SL	AP	08 56 09.0	2.0	1.61	3			

JUN 07  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 32 43.5	0.4	1.05	2			
	E R BE	SG	12 33 02.3						

JUN 07 USCGS  
 H= 15 31 12.4  
 LAT = 38.0 N  
 LONG = 20.1 E  
 DEPTH= 39 KM  
 MAGNITUDE= 4.6  
 GREECE

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
JUN 07 8CIS H= 15 31 12.0 LAT = 37.9 N LONG = 20.2 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED GREECE									

FUR	-E Z SL	P	15 34 03.0	1.4	1.36	1	1330	12.0	144.2 330.3
	+E Z SL	PP	15 34 13.0	1.5	1.08	7			
	-E Z SL	Xpp	15 34 22.0	1.5	1.23	9			
	+E Z SL	-	15 34 39.0	1.5	1.23	9			
	+E Z SL	S	15 36 19.0	1.2	1.30	2			
	+E Z SL	SS	15 36 33.0	1.5	1.23	2			
	+E Z SL	SSS	15 36 40.0	1.8	1.65	1			
	+E Z SL	-	15 36 58.0	1.5	1.62	5			
	Z SL	MAXIMUM	15 39 30.0	5.0	3.12				

GRF	E Z BE	P	15 34 28.1				1480	13.3	147.8 330.0
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BUH	E N GT	P	15 34 27.-				1520	13.7	136.5 324.7
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KRL	+E Z ST	P	15 34 50.6	1.0	2.01	2	1540	13.9	138.0 326.0
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BNS	E Z FS	P	15 35 01.5	1.5	1.48	2	1760	15.9	139.6 328.7
	E N FS	S	15 37 42.0						
	E FS	-	15 38 04.-						
	E Z SL	LR	15 40 00.-						
	Z SL	MAXIMUM	15 43 00.-	12.0					

JUN 07  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	P	21 25 04.0	1.3	2.00	2			
	-E Z SL	-	21 25 22.0	1.5	0.90	3			

JUN 07 USCGS  
 H= 22 47 15.4  
 LAT = 52.5 N  
 LONG = 169.1 W  
 DEPTH= 42 KM  
 MAGNITUDE= 5.2  
 FOX ISLANDS, ALEUTIAN ISLANDS

BNS	+I Z FS	P	22 59 04.5	1.2	1.85	4	8550	76.9	357.6 2.4
	E FS	-	22 59 34.-						

GRF	+I Z BE	P	22 59 12.8	1.0	1.38	4	8700	78.2	0.2 359.8
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KRL	+E Z ST	P	22 59 16.8	1.1	2.14	3	8770	78.9	358.4 1.7
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FUR	-I Z SL	P	22 59 19.0	1.5	1.40	9	8870	79.7	0.2 359.8
	+E Z SL	APCP	22 59 31.0	1.8	1.53	1			
	-E Z SL	XPCP	22 59 38.0	2.0	1.76	7			

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-E Z SL	PP	23 02 18.0	1.5	0.90	5			
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JUN 08 USCGS  
 H= 11 41 16.8  
 LAT = 15.1 S  
 LONG= 173.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 TONGA ISLANDS

FUR	+E Z SL	PKP	12 01 19.0	1.5	1.08	2	16320 146.8	8.5 354.1
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JUN 08 USCGS  
 H= 14 49 31.6  
 LAT = 53.3 N  
 LONG= 159.7 E  
 DEPTH= 60 KM  
 MAGNITUDE= 5.4  
 NEAR EAST COAST OF KAMCHATKA

BNS	E Z FS	P	15 00 59.5				8180 73.6	16.8 342.3
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GRF	+I Z BE	P	15 01 02.9	0.8	1.48	5	8230 74.0	19.0 339.3
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FUR	-E Z SL	P	15 01 10.0	1.5	1.40	9	8390 75.4	18.9 338.8
	-E Z SL	PCP	15 01 21.0	1.5	0.90	2		
	+E Z SL	APCP	15 01 32.0	1.5	0.90	5		
	+E Z SL	XPCP	15 01 37.0	1.5	0.90	3		
	-E Z SL	-	15 03 19.0	1.5	0.90	5		

BUH	+E Z GT	P	15 01 10.5	1.0	1.17		8400 75.6	17.2 340.9
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JUN 08 USCGS  
 H= 16 52 39.8  
 LAT = 6.1 S  
 LONG= 30.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 LAKE TANGANYIKA REGION

GRF	-E Z BE	P	17 02 33.4				6460 58.1	156.9 345.1
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JUN 08 USCGS  
 H= 21 40 13.4  
 LAT = 25.3 S  
 LONG= 179.6 W  
 DEPTH= 412 KM  
 MAGNITUDE= 5.0  
 SOUTH OF FIJI ISLANDS

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	PKP2	21 59 49.0	1.5	1.23	9	17310 155.6	24.4 342.2
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JUN 09 USCGS  
 H= 01 55 00.4  
 LAT = 23.7 W  
 LONG= 120.9 E  
 DEPTH= 46 KM  
 MAGNITUDE= 5.0  
 TAIWAN

FUR	-E Z SL	P	02 07 32.0	1.8	1.45	5	9420 84.8	60.1 320.7
	+E Z SL	-	02 07 38.0	1.5	0.85	1		

JUN 09 USCGS  
 H= 06 51 16.1  
 LAT = 3.2 S  
 LONG= 142.9 E  
 DEPTH= 17 KM  
 MAGNITUDE= 5.2  
 NEAR NORTH COAST OF NEW GUINEA

FUR	-E Z SL	PKP	07 10 07.0	1.5	0.85	4	13240 119.1	58.6 325.1
	+E Z SL	-	07 10 13.0	1.5	0.90	1		
	-E Z SL	PP	07 11 27.0	1.5	1.00	6		
	+E Z SL	APP	07 11 37.0	1.5	0.90	5		

JUN 09 USCGS  
 H= 09 35 38.2  
 LAT = 7.0 S  
 LONG= 12.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 ASCENSION ISLAND REGION

FUR	+E Z SL	P	09 45 35.0	1.5	1.11	2	6550 58.9	208.1 18.5
	+I Z SL	AP	09 45 41.0	1.5	1.23	2		
	+E Z SL	XP	09 45 46.0	1.8	1.76	2		
	-E Z SL	-	09 45 55.0	1.5	1.23	5		
	-E Z SL	PCP	09 46 24.0	1.5	0.90	2		

GRF	E Z BE	P	09 45 51.4				6700 60.2	207.6 17.6
	+E Z BE	PP	09 48 05.8	1.0	1.30	1		

JUN 09  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PN	13 02 01.9	0.2	1.38	7		
	-I Z BE	PG	13 02 03.8	0.2	1.49	3		
	E R BE	SG	13 02 28.0					



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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 09  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	16 38 16.5					
	-I Z BE	PG	16 38 18.1	0.3	1.18	2		
	E R BE	SG	16 38 42.3					

JUN 09 USCGS  
H= 18 52 26.3  
LAT = 42.0 N  
LONG = 84.6 E  
DEPTH = 36 KM  
MAGNITUDE = 4.7  
NORTHERN SINKIANG PROV., CHINA

GRF	-E Z BE	P	19 01 19.1	0.8	1.15	2	5540 49.8	69.2 305.5
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JUN 09 USCGS  
H= 21 53 01.8  
LAT = 23.5 S  
LONG = 175.0 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.5  
TONGA ISLANDS REGION

HAM	+E Z ZX	PKP	22 12 52.5			3	16660 149.8	9.0 354.2
BNS	-I Z FS	PKP	22 12 50.4			2	16960 152.5	4.3 357.1
	I Z FS	-	22 12 57.0	2.5	2.18			
	E FS	PP	22 16 35.-					
GRF	E Z BE	PKP	22 12 52.4				17060 153.4	12.8 351.0
	+E Z BE	PKP	22 13 10.5					
FUR	+E Z SL	PKP	22 12 51.0	1.6	1.00	5	17220 154.9	13.6 350.1
	-E Z SL	APKP	22 13 02.0	1.5	0.95	2		
	-I Z SL	PKP2	22 13 17.0	1.5	1.23	2		
	+E Z SL	APKP	22 13 26.0	1.5	1.20	2		
	-E Z SL	XPKP	22 13 34.0	1.5	1.00	1		

JUN 09 USCGS  
H= 23 09 43.6  
LAT = 44.0 N  
LONG = 148.9 E  
DEPTH = 50 KM  
MAGNITUDE = 5.1  
KURIL ISLANDS

GRF	+E Z BE	P	23 21 47.6	1.0	1.38	3	8850 79.6	29.6 333.6
	+E Z BE	AP	23 22 00.4	1.2	1.80	4		
BNS	+I Z FS	P	23 21 47.5	1.0	1.30	2	8860 79.7	27.0 336.5

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	P	23 21 53.0	1.6	1.08	6	9000 80.9	29.5 332.8
	-E Z SL	AP	23 22 03.0	1.5	1.00	2		
	-E Z SL	-	23 22 18.0	1.5	1.08	2		

JUN 10  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	07 58 07.1	1.0	2.55	5		
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JUN 10  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 57 15.0	1.5	1.00	2		
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JUN 10  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	15 05 00.-					
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JUN 10 USCGS  
H= 17 15 29.4  
LAT = 13.2 N  
LONG = 121.4 E  
DEPTH = 37 KM  
MAGNITUDE = 5.4  
MINDORO, PHILIPPINE ISLANDS

FUR	-E Z SL	P	17 28 43.0	1.5	0.90	2	10360 93.2	66.3 321.0
	-E Z SL	AP	17 28 52.0	1.5	0.90	2		

JUN 10 USCGS  
H= 22 52 12.1  
LAT = 36.4 N  
LONG = 70.7 E  
DEPTH = 203 KM  
MAGNITUDE = 5.4  
HINDU KUSH REGION

JUN 10 BCIS  
H= 22 52 07.0  
LAT = 36.1 N  
LONG = 71.3 E  
DEPTH = 200 KM  
NO MAGNITUDE COMPUTED  
HINDU KUSH REGION

GHF	+E Z BE	P	23 00 04.3	1.0	1.48	4	4930 44.3	84.0 306.8
	-E Z BE	AP	23 00 50.3	1.0	1.72	6		
	-E Z BE	PP	23 01 51.9	1.0	1.60	4		
	-E Z BE	-	23 02 57.9	1.2	1.80	2		

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	-I Z SL	P	23	00	05.0	1.8	1.90	5	4950	44.5	82.5	304.6
	-I Z SL	Ap	23	00	49.0	1.5	1.23	9				
	-I Z SL	XP	23	01	11.0	1.5	1.23	2				
	+E Z SL	PP	23	01	54.0	1.5	1.40	3				
	+E Z SL	APP	23	02	29.0	1.5	1.08	2				
	-E Z SL	XPP	23	02	47.0	2.0	1.87	5				
STU	+E Z BE	P	23	00	14.9	0.8	1.81	6	5090	45.8	81.8	305.7
KRL	-E Z ST	P	23	00	19.7	1.2	2.05	2	5140	46.3	81.5	306.2
BUH	+E Z GT	P	23	00	20.-	1.4	1.40		5160	46.4	81.0	305.7
BNS	+I Z FS	P	23	00	22.4	2.0	1.90	3	5200	46.8	82.5	309.0
	I Z FS	-	23	01	08.0							
	E FS	-	23	01	31.-							
JUN 10 USCGS H= 23 30 53.7 LAT = 36.3 N LONG= 70.4 E DEPTH=213 KM MAGNITUDE= 5.2 HINDU KUSH REGION												
JUN 10 BCIS H= 23 30 46.0 LAT = 36.1 N LONG= 71.3 E DEPTH=200 KM NO MAGNITUDE COMPUTED HINDU KUSH REGION												
GRF	+I Z BE	P	23	38	44.2	0.8	1.48	7	4920	44.2	84.3	306.8
	-E Z BE	AP	23	39	32.5	1.2	1.97	3				
FUR	-I Z SL	P	23	38	44.0	1.7	1.88	9	4930	44.3	82.8	304.7
	-I Z SL	AP	23	39	32.0	1.5	1.45	9				
	+E Z SL	XP	23	39	55.0	1.5	1.45	3				
	+I Z SL	PP	23	40	34.0	1.5	1.40	3				
	+E Z SL	APP	23	41	12.0	1.5	1.23	3				
	+E Z SL	-	23	41	40.0	1.8	1.93	3				
	+E Z SL	-	23	42	08.0	1.5	1.23	2				
STU	+E Z BE	P	23	38	54.5	0.9	1.78	5	5070	45.6	82.0	305.8
KRL	+E Z ST	P	23	38	59.3	1.4	2.37	4	5130	46.1	81.8	306.2
BUH	+E Z GT	P	23	38	59.5	1.0	1.17		5150	46.3	81.3	305.8
BNS	+I Z FS	P	23	39	02.2	1.6	1.78	3	5190	46.6	82.8	309.0
	-I Z FS	-	23	39	49.0							
	-I FS	-	23	42	08.2							

JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
JUN 11 USCGS H= 00 58 10.1 LAT = 59.6 N LONG= 144.8 W DEPTH= 5 KM MAGNITUDE= 5.3 GULF OF ALASKA												
BNS	-I Z FS	P	01	09	08.5	1.7	1.85	3	7500	67.5	345.0	18.8
	E Z FS	S	01	18	06.-							
	E FS	LP	01	32	00.-							
GRF	+I Z BE	P	01	09	21.0	1.1	1.70	4	7710	69.3	347.2	16.4
KRL	-E Z ST	P	01	09	22.6	1.0	2.19	3	7740	69.6	345.8	18.5
BUH	-E Z GT	P	01	09	23.-	1.5	1.14		7770	69.9	345.8	18.7
FUR	-I Z SL	P	01	09	30.0	1.5	1.34	9	7880	70.8	347.4	16.7
	-E Z SL	PCP	01	09	48.0	1.5	1.23	2				
	Z SL	MAXIMUM	01	48	00.0	14.0	2.83					
JUN 11 USCGS H= 01 05 01.3 LAT = 59.6 N LONG= 144.8 W DEPTH= 12 KM MAGNITUDE= 4.9 GULF OF ALASKA												
BNS	E Z FS	P	01	15	59.0	2.0	1.70	2	7500	67.5	345.0	18.8
	E Z FS	-	01	17	22.3							
GRF	E Z BE	P	01	16	10.9				7710	69.3	347.2	16.4
KRL	+E Z ST	P	01	16	12.0	1.0	2.01	2	7740	69.6	345.8	18.5
BUH	E Z GT	P	01	16	14.-	1.5	1.10		7770	69.9	345.8	18.7
FUR	-E Z SL	P	01	16	20.0	1.4	1.36	2	7880	70.8	347.4	16.7
	-E Z SL	PCP	01	16	41.0	1.5	1.11	3				
	Z SL	MAXIMUM	01	54	30.0	15.0	2.82					
JUN 11 USCGS H= 04 48 20.3 LAT = 1.1 N LONG= 98.8 E DEPTH= 53 KM MAGNITUDE= 5.3 NORTHERN SUMATRA												
GRF	+E Z BE	P	05	01	05.6	1.0	1.42	3	9740	87.6	91.1	319.5

JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 11 USCGS  
 H= 06 51 10.9  
 LAT = 2.5 S  
 LONG= 12.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 NORTH OF ASCENSION ISLAND

FUR	-E Z SL	P	07 00 37.0	1.8	1.23	1	6050 54.4	209.3 19.2
	+E Z SL	AP	07 00 43.0	1.6	1.08	6		
	+E Z SL	XP	07 00 49.0	1.5	1.00	6		
	+E Z SL	PCP	07 01 36.0	1.5	0.90	5		

JUN 11  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	10 00 50.0	1.5	0.85	1		
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JUN 11  
 NO DETERMINATION OF EPICENTER

HLG	Z X	-	10 19 00.-					
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JUN 11  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	10 30 54.4	0.4	0.90	3		
	E R BE	SG	10 31 13.3					

JUN 11  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	12 09 54.0	1.6	1.00	2		
	-E Z SL	-	12 10 10.0	1.5	0.90	2		

JUN 11 USCGS  
 H= 15 11 17.4  
 LAT = 27.4 N  
 LONG= 139.9 E  
 DEPTH=500 KM  
 MAGNITUDE= 4.8  
 BONIN ISLANDS REGION

GRF	+I Z BE	P	15 23 27.8	1.0	1.78	6	10090 90.8	44.0 329.5
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FUR	+I Z SL	P	15 23 32.0	1.4	1.74	6	10210 91.8	44.0 328.-
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JUN 11  
 NO DETERMINATION OF EPICENTER

JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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HLG	Z X	-	16 16 00.-					
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JUN 11 USCGS  
 H= 23 44 57.9  
 LAT = 20.5 S  
 LONG= 174.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 TONGA ISLANDS

BNS	E Z FS	PKP	00 04 45.-			2	16630 149.5	3.5 357.7
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JUN 12 USCGS  
 H= 07 41 25.1  
 LAT = 40.3 N  
 LONG= 143.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 OFF EAST COAST OF HONSHU, JAPAN

HAM	E Z ZX	P	07 53 25.-			1	8730 78.5	34.3 333.8
	+I Z ZX	-	07 53 27.5			2		

GRF	+E Z BE	P	07 53 39.7	0.8	1.52	4	9020 81.1	34.8 331.0
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BNS	+I Z FS	P	07 53 40.7	1.5	1.60	2	9060 81.5	32.2 333.9
	E Z FS	PP	07 56 50.-					
	E FS	LR	08 22 00.-					

FUR	-I Z SL	P	07 53 46.0	2.4	2.38	9	9160 82.4	34.8 330.1
	+I Z SL	AP	07 53 55.0	1.5	1.57	4		
	-E Z SL	APP	07 57 06.0	1.5	0.90	2		
	Z SL	MAXIMUM	08 37 00.0	15.0	3.30			

JUN 12  
 NO DETERMINATION OF EPICENTER

HLG	Z X	-	09 46 00.-					
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JUN 12  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	10 00 43.0	2.0	1.61	5		
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JUN 12  
 NO DETERMINATION OF EPICENTER

HLG	Z X	-	11 12 00.-					
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JUN 1969

JUN 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

JUN 12  
 NO DETERMINATION OF EPICENTER

HLG Z X - 11 45 00.-

JUN 12  
 NO DETERMINATION OF EPICENTER

HLG Z X - 12 29 00.-

JUN 12  
 NO DETERMINATION OF EPICENTER

GRF -E Z BE PG 12 58 39.1 0.3 0.78 2  
 E Z BE SG 12 58 54.1

JUN 12  
 NO DETERMINATION OF EPICENTER

GRF +I Z BE PG 13 59 33.9 0.4 0.90 2  
 E R BE SG 13 59 49.6 0.5 1.18 4

JUN 12 USCGS  
 H= 15 13 31.1  
 LAT = 34.4 N  
 LONG= 25.1 E  
 DEPTH= 25 KM  
 MAGNITUDE= 5.8  
 CRETE

JUN 12 BCIS  
 H= 15 13 33.0  
 LAT = 34.6 N  
 LONG= 25.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR -I Z SL P 15 17 30.0 1.7 1.93 9 1910 17.2 138.2 327.3  
 -I Z SL S 15 20 39.0 1.5 1.96 9  
 -I Z SL - 15 21 23.0 1.5 1.88 2  
 Z SL MAXIMUM 15 25 39.0 15.0 4.66

RAV +E Z ST P 15 17 37.5 2.0 3.79 9 1970 17.7 133.5 323.7

GRF +I Z BE P 15 17 44.2 1.8 2.30 5 2040 18.4 141.1 330.4  
 -E Z BE S 15 21 28.9 1.0 2.00 1

FEL +E Z ST P 15 17 46.8 2.5 3.24 9 2060 18.5 130.3 321.6

STU +E Z BE P 15 17 47.5 1.0 2.98 9 2060 18.6 134.8 325.4

BUH +E Z GT P 15 17 52.8 1.6 1.86 2110 19.0 132.5 323.8

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JUN 1969

JUN 1969

JUN 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

+I Z GT - 15 17 54.0 0.8 2.25

KRL +E Z ST P 15 17 54.5 1.5 2.65 3 2120 19.1 133.6 324.8  
 +I Z ST - 15 17 56.1 1.5 3.36

HEI +E Z ST P 15 17 54.8 1.5 3.12 9 2140 19.2 135.1 326.1

TNS I P 15 18 02.5 2220 19.9 136.1 327.4  
 E S 15 21 55.0

BNS +I Z FS P 15 18 15.0 2.0 3.37 9 2340 21.0 135.0 327.3  
 E Z FS S 15 22 10.-  
 E FS LR 15 25 28.- 30.0  
 Z SL MAXIMUM 15 27 50.- 16.0  
 Z SL MAXIMUM 15 27 44.- 10.0

HAM E Z SX P 15 18 22.- 3 2430 21.9 144.6 335.2

HLG -I E X P 15 18 34.9 1.4 3.25 9 2580 23.2 141.6 333.8  
 +I N X P 15 18 35.5 1.4 3.15 9  
 -I Z X P 15 18 35.6 1.0 3.01 9  
 E X S 15 22 00.- 3.9 3.54 2  
 Z X S 15 22 00.- 1.4 2.41 2  
 N X S 15 22 00.- 3.9 3.23 1

JUN 12 USCGS  
 H= 15 46 42.4  
 LAT = 32.4 S  
 LONG= 14.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 SOUTH ATLANTIC RIDGE

FUR -E Z SL P 15 59 10.0 1.5 1.00 6 9260 83.3 201.4 16.8  
 +E Z SL - 15 59 15.0 1.5 0.90 5

GRF E Z BE P 15 59 17.4 9420 84.7 201.3 16.2

JUN 12  
 NO DETERMINATION OF EPICENTER

GRF E Z BE P 15 51 01.3 1.3 1.34 1

JUN 12 USCGS  
 H= 18 00 29.6  
 LAT = 34.2 N  
 LONG= 25.2 E  
 DEPTH= 56 KM  
 MAGNITUDE= 4.5  
 CRETE

FUR +I Z SL P 18 04 31.0 1.4 1.66 9 1940 17.4 138.1 327.4  
 +I Z SL - 18 04 38.0 1.5 1.29 2

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	+E Z BE	P	18 04 43.8	1.1	1.58	2	2070 18.6	141.0 330.5
BUH	E Z GT	P	18 04 50.-	1.0	0.80		2140 19.2	132.6 323.9
BNS	E Z FS	P	18 05 13.2			2	2370 21.3	135.0 327.3

 JUN 12  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	18 01 27.0	1.6	0.90	4		
GRF	E Z BE	-	18 01 45.9					

 JUN 12 USCGS  
H= 18 10 16.7  
LAT = 8.2 N  
LONG = 58.3 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.8  
CARLSBERG RIDGE

FUR	-E Z SL	P	18 19 56.0	1.6	0.90	4	6240 56.1	119.3 323.9
	+E Z SL	-	18 20 15.0	1.5	0.90	8		

 JUN 12 USCGS  
H= 18 59 08.1  
LAT = 24.0 N  
LONG = 122.4 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.3  
TAIWAN REGION

GRF	+E Z BE	P	19 11 40.5	1.2	1.51	2	9410 84.7	58.9 322.5
	E Z BE	PP	19 14 55.-					
FUR	+I Z SL	P	19 11 44.0	1.7	1.83	5	9500 85.4	58.9 321.2
	+E Z SL	AP	19 11 55.0	1.5	1.23	2		
	+E Z SL	-	19 12 05.0	1.6	1.08	2		
BNS	I Z FS	P	19 11 48.0	2.5	1.95	2	9580 86.2	56.0 325.0
	E Z FS	-	19 15 37.-					

 JUN 12  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	-	23 56 43.3					
	E Z FS	-	23 56 52.2					

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JUN 13 USCGS  
H= 01 23 13.8  
LAT = 34.3 N  
LONG = 25.1 E  
DEPTH = 38 KM  
MAGNITUDE = 4.4  
CRETE

 JUN 13 BCIS  
H= 01 23 15.0  
LAT = 34.4 N  
LONG = 25.0 E  
DEPTH = 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
CRETE

FUR	+I Z SL	P	01 27 15.0	1.6	1.20	4	1920 17.3	138.3 327.5
	-I Z SL	AP	01 27 23.0	1.5	1.23	2		
	-E Z SL	PPP	01 27 35.0	1.5	1.11	2		
	-E Z SL	S	01 30 21.0	1.5	0.85	4		
GRF	+E Z BE	P	01 27 27.6	1.0	1.56	3	2050 18.5	141.2 330.6
	-I Z BE	AP	01 27 37.3	1.0	1.79	6		
BUH	E Z GT	P	01 27 35.-	1.0	0.80		2120 19.1	132.7 324.0
BNS	E Z FS	P	01 27 58.-	1.0	1.30	2	2350 21.1	135.1 327.4
	Z FS	MAXIMUM	01 37 30.-					

 JUN 13 USCGS  
H= 08 48 29.5  
LAT = 49.4 N  
LONG = 155.5 E  
DEPTH = 64 KM  
MAGNITUDE = 5.9  
KURIL ISLANDS

HAM	E Z ZX	P	08 59 56.-			2	8160 73.4	22.6 339.3
BNS	+I Z FS	P	09 00 13.0	1.3	2.41	9	8490 76.4	20.7 340.0
	E Z FS	PP	09 03 08.-					
	E Z FS	SP	09 10 52.-					
BNS	E Z SL	SS	09 15 40.-				8490 76.4	20.7 340.0
	E Z SL	LR	09 25 50.-					
	SL	MAXIMUM	09 25 30.-			30.0		
GRF	+E Z BE	P	09 00 15.1	1.8	2.68	9	8520 76.6	23.1 337.1
HEI	+I Z ST	P	09 00 19.3	1.1	2.54	9	8620 77.5	21.5 338.5
KRL	+E Z ST	P	09 00 22.5	1.5	2.95	5	8660 77.9	21.3 338.5
	-E Z ST	-	09 00 24.0					
STU	+E Z BE	P	09 00 22.3	1.0	2.49	9	8670 77.9	21.7 338.0

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-I Z SL	P	09 00 24.0	1.6	2.20	9	8670 78.0	23.0 336.4
	-I Z SL	XPCP	09 00 50.0	1.5	1.83	2		
	-E Z SL	PP	09 03 11.0	1.5	1.76	3		
	-I Z SL	APP	09 03 19.0	1.8	2.23	2		
	+I Z SL	XPP	09 03 24.0	1.8	2.01	4		
	-I Z SL	-	09 04 38.0	1.5	1.70	6		
	+I Z SL	PPP	09 05 06.0	1.5	1.40	3		
	-E Z SL	-	09 05 22.0	2.0	1.91	9		
	E SL	MAXIMUM	09 31 00.0	29.0	4.60			
	Z SL	MAXIMUM	09 40 00.0	20.0	4.64			
BUH	+I Z GT	P	09 00 24.4	1.3	2.12		8700 78.3	21.1 338.5
FEL	+I Z ST	P	09 00 28.9	1.1	2.55	9	8790 79.1	20.9 338.4

 JUN 13  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	11 58 27.3	0.4	1.68	9		
	E Z BE	SG	11 58 49.0					

 JUN 13  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 22 12.0	1.6	1.15	1		
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 JUN 13  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	14 01 07.0	1.6	1.20	3		
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JUN 13 NFB  
 H= 14 05 00.5  
 LAT = 47.6 N  
 LONG = 11.1 E  
 DEPTH = 0 KM (GEOPHYSICIST)  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT ESCHENLOHE BAVARIA, SHOTPOINT NO. 1  
 H=14 05 00.51, 47 DEG 37 MIN 55 SEC N, 11 DEG 08 MIN 52 SEC E  
 HEIGHT= 700 METERS, CHARGE= 5.8 TONS.

FUR	+E Z SL	PG	14 05 14.5	1.4	1.43	6	60 0.6	189.1 9.0
	+I Z SL	SG	14 05 19.0	1.0	2.23	2		
	+E Z SL	SN	14 05 29.0	1.0	1.76	3		
	Z SL	MAXIMUM	14 05 57.0	1.5	1.88			
GRF	E Z BE	PN	14 05 35.4				230 2.1	181.3 1.2
	E Z BE	PG	14 05 41.1					
	E Z BE	SG	14 06 08.-					

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
JUN 13	NO DETERMINATION OF EPICENTER							
GRF	E Z BE	PG	14 20 21.0					
	E Z BE	SG	14 20 50.2					
JUN 13	NFB							
	H= 14 45 00.9							
	LAT = 51.6 N							
	LONG = 9.7 E							
	DEPTH = 0 KM (GEOPHYSICIST)							
	NO MAGNITUDE COMPUTED							
	GERMANY							

NFB = QUARRYBLAST AT ADELEHSEN, SHOTPOINT NO. 6  
 H= 14 45 00.93, 51 DEG 36 MIN 33 SEC N, 9 DEG 44 MIN 50 SEC E  
 CHARGE = 6.1 TONS.

BNS	E Z X	PG	14 45 33.7				190 1.7	67.2 249.2
	E Z X	-	14 45 35.0					
	E X	SG	14 45 57.6	1.0	2.11			
GRF	E Z BE	PG	14 45 42.3				240 2.1	334.6 153.4
	E Z BE	SG	14 46 09.-					

 JUN 13  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	16 25 19.0	1.6	1.36	5		
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JUN 14 USCGS  
 H= 00 23 11.4  
 LAT = 51.3 N  
 LONG = 179.7 W  
 DEPTH = 38 KM  
 MAGNITUDE = 4.9  
 ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	E Z FS	P	00 35 07.-				8660 77.9	4.4 355.5
GRF	+I Z BE	P	00 35 13.2	0.6	1.11	2	8780 78.9	7.0 352.8
FUR	+E Z SL	P	00 35 20.0	1.8	1.45	5	8940 80.4	7.0 352.6
	+E Z SL	AP	00 35 30.0	1.5	0.85	2		
	-E Z SL	XP	00 35 33.0	1.5	0.85	2		

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 14 USCGS  
 H= 00 59 22.4  
 LAT = 34.2 N  
 LONG= 25.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.0  
 CRETE

FUR	+E Z SL	P	01 03 24.0	1.6	1.08	6	1930 17.3	138.8 327.9
	+E Z SL	Xp	01 03 33.0	1.5	1.00	2		
	-E Z SL	Xpp	01 03 50.0	1.5	0.90	3		
GRF	+E Z BE	P	01 03 37.3	0.7	1.11	2	2060 18.5	141.7 330.9
BNS	E Z FS	P	01 04 06.8			2	2360 21.2	135.5 327.7

JUN 14 USCGS  
 H= 03 22 56.8  
 LAT = 7.9 S  
 LONG= 159.0 E  
 DEPTH= 62 KM  
 MAGNITUDE= 6.0  
 SOLOMON ISLANDS

HAM	+I Z ZX	PKP	03 41 59.4			3	14250 128.1	40.4 337.0
	E Z ZX	-	03 42 15.-			4		
GRF	+E Z BE	PKP	03 42 03.2	0.8	1.52	4	14500 130.4	43.9 332.9
BNS	+I Z FS	PKP	03 42 04.5	2.0	2.00	3	14580 131.2	38.4 336.6
	-I Z FS	-	03 42 20.0	1.9	2.00			
	E FS	-	03 45 46.0					
FUR	-E Z SL	PKP	03 42 04.0	1.6	1.65	9	14620 131.5	44.9 331.5
	+I Z SL	XPKP	03 42 21.0	1.5	1.70	4		
	-E Z SL	-	03 42 39.0	1.5	1.23	9		
	+I Z SL	Pp	03 44 25.0	1.5	1.40	3		
	+E Z SL	APP	03 44 36.0	1.5	1.11	4		
	+E Z SL	Xpp	03 44 42.0	1.5	1.23	1		
	-E Z SL	SKP	03 45 26.0	2.0	1.76	7		
	+E Z SL	-	03 45 45.0	1.8	1.76	9		
	-I Z SL	-	03 45 56.0	1.8	2.05	9		
	-E Z SL	Ppp	03 47 21.0	2.0	1.69	1		
	Z SL	MAXIMUM	04 35 00.0	29.0	3.25			
KRL	+E Z ST	PKP	03 42 07.2	1.5	2.42	3	14690 132.1	41.0 334.1
BUH	E Z GT	PKP	03 42 06.-				14730 132.5	41.0 334.0

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 14 USCGS  
 H= 03 28 29.6  
 LAT = 31.7 N  
 LONG= 94.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 TIBET

GRF	E Z BE	P	03 38 53.0	1.4	1.70	2	6960 62.6	72.6 313.4
FUR	-E Z SL	P	03 38 56.0	1.6	1.30	9	7000 63.0	71.9 311.7
	-E Z SL	Pp	03 41 16.0	1.8	1.53	6		

JUN 14 FUR  
 H= 04 56 00.0  
 LAT = 47.7 N  
 LONG= 11.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENBERG REGION, BAVARIA, FELT AT PEISSENBERG.

FUR	+E Z SL	PG	04 56 05.0	1.0	1.76	3	50 0.5	204.2 24.0
	-E Z SL	SG	04 56 10.0	1.5	0.70	2		
	Z SL	MAXIMUM	04 56 40.0	1.5	1.23			

JUN 14  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	13 23 10.9	0.5	1.00	3		
	-I Z BE	-	13 23 26.2	0.4	0.85	1		
	E Z BE	-	13 23 44.6					

JUN 14 USCGS  
 H= 13 47 24.2  
 LAT = 34.3 N  
 LONG= 25.1 E  
 DEPTH= 9 KM  
 MAGNITUDE= 5.0  
 CRETE

JUN 14 BCIS  
 H= 13 47 28.0  
 LAT = 34.4 N  
 LONG= 25.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	-I Z SL	P	13 51 27.0	1.6	0.90	2	1920 17.2	138.3 327.4
	-I Z SL	AP	13 51 30.0	1.5	2.00	9		

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	+E Z SL	PP	13	51	39.0	1.5	1.92	2				
	+E Z SL	PPP	13	51	50.0	1.5	1.58	2				
	+E Z SL	-	13	51	57.0	1.5	1.40	1				
	+E Z SL	S	13	54	41.0	1.5	0.85	1				
	+E Z SL	SS	13	55	03.0	1.5	1.08	2				
	+I Z SL	SSS	13	55	16.0	1.5	1.30	4				
	+E Z SL	-	13	55	28.0	1.6	1.15	4				
	-E Z SL	PCP	13	56	08.0	1.5	1.26	6				
	+I Z SL	XPCP	13	56	18.0	1.5	1.34	7				
	Z SL	MAXIMUM	13	59	20.0	14.5	3.37					
GRF	E Z BE	P	13	51	40.6	1.6	2.03	3	2050	18.4	141.2	330.5
	E Z BE	-	13	52	43.4							
	+E Z BE	-	13	57	09.7	1.2	1.84	2				
STU	E Z BE	P	13	51	43.4	0.8	2.08	9	2070	18.6	134.9	325.5
BUH	+E Z GT	P	13	51	49.-	1.0	1.57		2120	19.0	132.7	323.9
KRL	+E Z ST	P	13	51	51.2	1.5	2.56	4	2130	19.2	133.7	324.9
TNS	I	P	13	52	00.5				2230	20.0	136.2	327.5
BNS	+I Z FS	P	13	52	11.4	1.4	2.11	7	2350	21.1	135.1	327.4
	E Z FS	-	13	52	52.5							
	E FS	S	13	56	08.-							
HAM	+I Z SX	P	13	52	19.5			5	2440	21.9	144.6	335.3
JUN 14 USCGS H= 14 32 56.3 LAT = 34.3 N LONG= 25.1 E DEPTH= 36 KM MAGNITUDE= 4.4 CRETE												
JUN 14 BCIS H= 14 33 01.0 LAT = 34.4 N LONG= 25.5 E DEPTH=100 KM NO MAGNITUDE COMPUTED CRETE												
FUR	+E Z SL	P	14	36	57.0	1.8	1.36	4	1920	17.3	138.1	327.3
	+E Z SL	XP	14	37	07.0	1.6	0.90	1				
	+E Z SL	-	14	37	15.0	1.5	1.11	2				
	+E Z SL	-	14	37	35.0	1.6	0.90	2				
GRF	-E Z BE	P	14	37	10.9	1.0	1.48	4	2050	18.5	141.1	330.4
BNS	E Z FS	P	14	37	40.-	1.4	1.30	2	2350	21.1	135.0	327.3

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
JUN 14 USCGS H= 17 45 01.8 LAT = 41.4 N LONG= 43.2 E DEPTH= 26 KM MAGNITUDE= 4.7 TURKEY-USSR BORDER REGION												
JUN 14 BCIS H= 17 45 03.0 LAT = 41.1 N LONG= 43.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED TURKEY-USSR BORDER REGION												
FUR	+E Z SL	P	17	50	12.0	1.9	1.54	5	2620	23.5	94.9	297.6
	+I Z SL	-	17	50	17.0	1.8	1.36	1				
	+E Z SL	Ap	17	50	20.0	1.8	1.53	2				
	+E Z SL	XP	17	50	25.0	1.5	0.90	5				
	+E Z SL	PP	17	50	43.0	1.8	1.36	4				
	+E Z SL	PPP	17	50	49.0	1.7	1.49	2				
	+E Z SL	-	17	51	01.0	1.5	1.00	2				
	+E Z SL	-	17	51	11.0	1.6	0.90	4				
	+E Z SL	-	17	51	20.0	1.5	1.11	3				
STU	E Z BE	P	17	50	01.0	1.0	1.89	5	2780	25.0	94.4	298.8
JUN 14 NO DETERMINATION OF EPICENTER												
FUR	+I Z SL	P	22	34	17.0	1.7	1.34	3				
	+E Z SL	-	22	34	28.0	1.6	0.78	2				
	+E Z SL	-	22	34	36.0	1.5	0.70	2				
	+E Z SL	-	22	34	48.0	1.7	1.26	1				
JUN 15 NO DETERMINATION OF EPICENTER												
BNS	E Z FS	P	04	47	34.-							
JUN 15 NO DETERMINATION OF EPICENTER												
BNS	E Z FS	-	05	30	50.-							
	E Z FS	-	05	30	58.5							



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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 15 USCGS  
 H= 05 58 41.8  
 LAT = 34.3 N  
 LONG= 25.2 E  
 DEPTH= 24 KM  
 MAGNITUDE= 4.5  
 CRETE

JUN 15 BCIS  
 H= 05 58 44.0  
 LAT = 34.3 N  
 LONG= 25.1 E  
 DEPTH= 50 KM  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	-I Z SL	P	06 02 44.0	1.5	1.18	9	1920 17.3	138.1 327.3
	-E Z SL	XP	06 02 55.0	1.5	1.18	2		
	-E Z SL	PPP	06 03 05.0	1.4	1.51	1		

GRF	-E Z BE	P	06 02 57.7	1.1	1.74	4	2060 18.5	141.0 330.4
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BNS	E Z FS	P	06 03 26.5				2350 21.2	134.9 327.3
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JUN 15  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 21 17.0	1.5	0.70	3		
	-E Z SL	-	13 22 09.0	1.6	0.60	1		

JUN 15  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	13 33 47.0	1.5	1.18	5		
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JUN 15  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	16 46 55.0	2.1	1.58	4		
	+E Z SL	-	16 47 20.0	1.5	0.90	3		

JUN 15 USCGS  
 H= 16 56 32.0  
 LAT = 4.7 S  
 LONG= 102.2 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.3  
 SOUTHERN SUMATRA

FUR	+E Z SL	P	17 09 48.0	1.6	1.00	3	10460 94.1	92.4 317.8
	-E Z SL	XPCP	17 10 03.0	1.5	0.90	3		
	+E Z SL	-	17 10 35.0	1.6	1.08	6		

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E Z SL	-	17 10 49.0	1.5	0.90	5		
	+E Z SL	PP	17 13 35.0	1.5	0.90	1		
GRF	-E Z BE	P	17 09 49.4	2.0	2.10	2	10470 94.2	92.3 319.4
	-E Z BE	AP	17 10 03.6	1.6	2.00	3		

JUN 16  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	SG	02 38 17.0	1.0	1.30	2		
	E Z X	-	02 39 15.-					

JUN 16  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	04 59 08.0	1.5	0.90	5		
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JUN 16 USCGS  
 H= 15 45 53.3  
 LAT = 4.9 S  
 LONG= 125.7 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.4  
 BANDA SEA

FUR	+E Z SL	PP	16 05 03.0	1.9	1.74	2	12210 109.8	74.7 319.6
	-I Z SL	-	16 05 25.0	1.8	1.76	9		

JUN 16  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	15 56 16.0	1.5	0.90	1		
	+E Z SL	-	15 56 19.0	1.5	1.08	7		

JUN 16 USCGS  
 H= 16 06 25.5  
 LAT = 38.2 N  
 LONG= 20.1 E  
 DEPTH= 42 KM  
 MAGNITUDE= 4.5  
 GREECE

JUN 16 BCIS  
 H= 16 06 25.0  
 LAT = 38.0 N  
 LONG= 20.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

FUR	+I Z SL	P	16 09 15.0	1.6	1.08	2	1320 11.8	143.7 329.8
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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-I Z SL	PP		16 09 26.0	1.8	1.71	2		
+E Z SL	XPP		16 09 35.0	2.0	1.76	1		
+I Z SL	-		16 09 41.0	1.5	1.23	1		
+I Z SL	-		16 09 56.0	1.5	1.23	2		
+E Z SL	S		16 11 22.0	1.5	1.18	3		
-E Z SL	SS		16 11 41.0	1.6	1.15	4		
-I Z SL	SSS		16 11 56.0	1.0	2.28	2		
-E Z SL	-		16 12 08.0	1.4	1.56	2		
Z SL	MAXIMUM		16 14 30.0	5.0	3.10			
GRF	E Z BE	P	16 09 38.5				1460 13.1	147.4 333.6
BUH	-E Z GT	P	16 09 49.-	1.0	0.90		1510 13.5	136.0 324.2
BNS	-E Z FS	P	16 10 10.0	1.4	1.48	2	1740 15.7	139.2 328.3
	E Z FS	S	16 13 18.-					
	E FS	LR	16 14 30.-					

JUN 17 USCGS  
 H= 05 18 46.5  
 LAT = 38.5 N  
 LONG= 20.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 GREECE

JUN 17 BCIS  
 H= 05 18 46.0  
 LAT = 38.0 N  
 LONG= 20.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

FUR	-E Z SL	P	05 21 36.0	1.5	0.85	4	1300 11.7	142.9 329.1
	+E Z SL	XPP	05 21 54.0	1.8	1.45	1		
	-E Z SL	-	05 22 10.0	1.5	0.90	5		
	+I Z SL	S	05 23 36.0	1.5	1.23	2		
	-E Z SL	SS	05 23 58.0	1.5	1.00	6		
	+E Z SL	-	05 24 14.0	1.5	1.18	9		
	Z SL	MAXIMUM	05 27 00.0	5.5	3.27			

JUN 17 USCGS  
 H= 19 26 28.9  
 LAT = 19.0 N  
 LONG= 145.5 E  
 DEPTH=206 KM  
 MAGNITUDE= 5.8  
 MARIANA ISLANDS

GRF	-E Z BE	P	19 39 54.0	2.0	2.18	2	11180 100.6	43.6 331.8
	-E Z BE	AP	19 40 45.4	1.6	1.86	1		
	-E Z BE	PKP	19 43 51.8	2.2	2.36	2		
	+E Z BE	PP	19 44 04.3	2.2	2.25	1		

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	E Z BE	-	19 51 56.9					
	+E Z BE	-	19 56 08.2	0.7	1.04	2		
BNS	E Z SL	P	19 39 57.-				11270 101.3	39.9 334.6
	-E Z SL	AP	19 40 44.-					
	E SL	PP	19 44 09.6					
	E Z SL	APP	19 44 46.-					
	E Z SL	-	19 52 40.-					
	E Z SL	-	19 53 32.-					
FUR	+I Z SL	P	19 39 59.0	1.5	1.18	4	11300 101.6	43.8 330.7
	+E Z SL	AP	19 40 49.0	1.5	1.26	1		
	-E Z SL	PP	19 44 12.0	2.0	1.95	9		
	-E Z SL	APP	19 44 56.0	1.7	1.73	2		
	+I Z SL	XPP	19 45 16.0	1.5	1.40	9		
	+E Z SL	PPP	19 46 24.0	2.0	1.76	1		
	+I Z SL	-	19 47 05.0	0.9	2.54	3		
	-E Z SL	-	19 47 29.0	1.5	1.08	2		
	+E Z SL	SP	19 54 03.0	1.8	1.76	2		
	+I Z SL	PKKP	19 56 04.0	1.5	1.34	3		
	+E Z SL	-	19 56 28.0	2.0	2.06	9		
	E SL	MAXIMUM	20 20 30.0	19.0	3.94			

JUN 17 USCGS  
 H= 23 24 41.7  
 LAT = 43.2 N  
 LONG= 45.3 E  
 DEPTH= 6 KM  
 MAGNITUDE= 5.1  
 EASTERN CAUCASUS

JUN 17 BCIS  
 H= 23 24 41.0  
 LAT = 43.3 N  
 LONG= 45.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 EASTERN CAUCASUS

FUR	-I Z SL	P	23 29 59.0	1.5	1.62	9	2690 24.1	89.1 293.8
	-I Z SL	PP	23 30 34.0	1.8	2.23	6		
	+I Z SL	PPP	23 30 44.0	1.8	2.05	9		
	-I Z SL	-	23 30 52.0	1.8	2.05	3		
	-I Z SL	PCP	23 33 37.0	1.6	1.26	5		
	-E Z SL	S	23 34 20.0	1.5	1.00	6		
	+E Z SL	SSS	23 35 17.0	1.5	1.23	2		
	+E Z SL	-	23 35 33.0	0.9	1.28	4		
	Z SL	MAXIMUM	23 38 45.0	3.0	3.46			
	N SL	MAXIMUM	23 43 00.0	14.0	3.74			
GRF	E Z BE	P	23 30 01.7				2690 24.2	92.5 297.5
	E N BE	PCS	23 37 37.-					
KRL	+E Z ST	P	23 30 16.8	1.3	2.23	2	2890 26.0	88.9 295.8
BUH	-E Z GT	P	23 30 18.5	2.0	1.66		2910 26.2	88.1 295.1

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z FS	P	23 30 25.-	1.5	1.95	4	2990 26.8	91.9 300.2
	E Z FS	-	23 30 54.-					
	E FS	S	23 35 22.-					

JUN 17 USCGS  
 H= 23 58 10.1  
 LAT = 52.6 S  
 LONG= 159.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.1  
 MACQUARIE ISLANDS REGION

FUR	+E Z SL	PKP	00 18 10.0	2.0	1.91	1	17740 159.5	114.3 270.3
	-E Z SL	APKP	00 18 21.0	1.5	1.23	5		
	+E Z SL	PKP2	00 18 48.0	1.5	1.26	6		
	-I Z SL	PP	00 22 41.0	1.8	1.93	2		
	-I Z SL	XPP	00 22 55.0	1.6	1.40	9		
	Z SL	MAXIMUM	01 17 00.0	82.0	4.15			
	Z SL	MAXIMUM	01 37 00.0	25.0	4.13			

GRF	E Z BE	PKP	00 18 11.5	1.8	2.00	2	17800 160.1	110.4 274.3
	-I Z BE	-	00 18 51.9	1.2	1.97	2		
	E Z BE	PP	00 22 32.4	2.0	2.28	3		
	E Z BE	PP	00 26 14.-					
	E Z BE	-	00 30 03.-					

BNS	E Z SL	PKP	00 18 07.-				18120 163.0	106.1 275.6
	E Z SL	-	00 18 19.-					
	E SL	-	00 23 19.-	3.3	2.33			
	E Z SL	-	00 33 12.-					
	E Z SL	-	00 36 09.-					
	E SL	-	00 44 10.-					
	E Z SL	-	00 56 05.-					
	E Z SL	LR	01 15 30.-					
	SL	MAXIMUM	01 22 00.-	50.0				

JUN 18 USCGS  
 H= 01 38 46.4  
 LAT = 59.5 N  
 LONG= 145.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 GULF OF ALASKA

HAM	E Z ZX	P	01 49 30.-			2	7290 65.6	346.3 16.1
BNS	E Z FS	P	01 49 43.5	2.0	2.04	4	7510 67.6	345.1 18.6
GRF	E Z BE	P	01 49 53.9				7720 69.4	347.3 16.2
BUH	E Z GT	P	01 49 48.-	1.8	1.56		7780 70.0	345.9 18.5
FUR	+E Z SL	P	01 50 04.0	1.6	1.43	9	7890 70.9	347.5 16.5
	-I Z SL	AP	01 50 13.0	1.5	1.35	1		

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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+I Z SL	PCP	01 50 20.0	1.3	2.18	5			
-E Z SL	PP	01 52 44.0	1.5	1.00	6			
-E Z SL	XPP	01 52 56.0	2.0	1.76	2			

JUN 18  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 46 45.2	0.4	1.23	5		
	-I Z BE	-	12 46 54.5	0.5	1.42	3		
	E N BE	SG	12 47 03.0					
	E N GT	-	12 47 13.6					

JUN 18 USCGS  
 H= 20 43 19.2  
 LAT = 0.5 N  
 LONG= 126.1 E  
 DEPTH= 5 KM  
 MAGNITUDE= 5.3  
 MULUCCA PASSAGE

FUR	+E Z SL	PP	21 02 03.0	2.0	1.81	4	11780 105.9	70.7 320.8
	-E Z SL	-	21 02 31.0	1.5	1.08	1		

JUN 18 USCGS  
 H= 23 44 11.2  
 LAT = 52.6 N  
 LONG= 167.9 W  
 DEPTH= 18 KM  
 MAGNITUDE= 5.4  
 FOX ISLANDS, ALEUTIAN ISLANDS

HAM	E Z ZX	P	23 55 49.-			2	8260 74.3	358.6 1.4
BNS	+I Z FS	P	23 56 02.3	1.8	2.11	5	8530 76.7	356.9 3.2
	E Z FS	-	00 14 44.-					
	E FS	LR	00 27 20.-					
GRF	+E Z BE	P	23 56 10.7	1.2	1.84	6	8680 78.1	359.4 0.6
KRL	+E Z ST	P	23 56 14.5	1.2	2.57		8750 78.7	357.7 2.5
BUH	+E Z GT	P	23 56 16.-	1.6	1.95		8790 79.0	357.6 2.6
FUR	-I Z SL	P	23 56 20.0	1.5	1.62	8	8850 79.6	359.5 0.6
	-I Z SL	XP	23 56 35.0	1.5	1.40	1		
	Z SL	MAXIMUM	00 40 30.0	17.0	3.29			

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 19 USC6S  
H= 06 52 33.5  
LAT = 34.3 N  
LONG= 25.1 E  
DEPTH= 16 KM  
MAGNITUDE= 4.6  
CRETE

JUN 19 BCIS  
H= 06 52 38.0  
LAT = 34.3 N  
LONG= 25.3 E  
DEPTH= 60 KM  
NO MAGNITUDE COMPUTED  
CRETE

FUR	-I Z SL	P	06 56 40.0	1.5	1.30	6	1920 17.3	138.3 327.5
	+E Z SL	Xp	06 56 50.0	1.5	0.90	1		
	+E Z SL	-	06 56 56.0	1.6	1.08	2		
	-E Z SL	Xpp	06 57 07.0	1.5	0.90	1		
	+E Z SL	-	06 57 14.0	1.8	1.45	2		

GRF	-I Z BE	P	06 56 50.3	1.0	1.64	3	2060 18.5	141.2 330.6
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JUN 19 USC6S  
H= 07 03 04.9  
LAT = 24.1 N  
LONG= 130.0 E  
DEPTH= 45 KM (GEOPHYSICIST)  
MAGNITUDE= 5.5  
RYUKYU ISLANDS

GRF	-E Z BE	P	07 15 39.9	1.0	1.61	4	9490 85.4	51.0 325.2
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FUR	+E Z SL	P	07 15 48.0	1.5	1.92	9	9600 86.3	50.9 324.0
	-E Z SL	XPCP	07 16 04.0	1.5	1.40	2		
	Z SL	MAXIMUM	07 58 30.0	18.0	3.11			

BNS	I Z FS	P	07 15 46.6	1.7	2.04	5	9620 86.5	48.0 327.8
	E Z FS	-	07 15 56.6					
	E FS	LR	07 50 00.-					

JUN 19  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	11 39 49.6					
	E Z BE	PG	11 39 53.1					
	E N BE	SG	11 40 12.-					

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 19 BCIS  
H= 13 18 55.0  
LAT = 47.3 N  
LONG= 11.4 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
AUSTRIA

BCIS = TIROL, FELT (IV) AT INNSBRUCK.

FUR	-E Z SL	PG	13 19 07.0	1.4	1.26	1	100 0.9	174.4 354.5
	-I Z SL	SG	13 19 16.0	1.0	2.18	2		
	Z SL	MAXIMUM	13 19 45.0	1.5	1.52			

GRF	+I Z BE	PN	13 19 31.3	0.4	1.15	3	270 2.4	177.0 357.1
	E Z BE	PG	13 19 32.7	0.5	1.17	2		
	E N BE	SG	13 20 04.-					

BUH	E Z GT	P	13 19 35.-				280 2.5	121.7 304.0
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JUN 19 USC6S  
H= 13 36 45.9  
LAT = 18.0 S  
LONG= 178.3 W  
DEPTH= 545 KM (GEOPHYSICIST)  
MAGNITUDE= 5.0  
FIJI ISLANDS REGION

BNS	-I Z FS	PKP	13 55 27.9	1.0	2.32	9	16320 146.8	9.6 353.6
	E Z FS	-	13 55 37.0					

GRF	-I Z BE	PKP	13 55 30.2	0.6	1.64	9	16390 147.4	17.0 348.5
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FUR	-E Z SL	PKP	13 55 29.0	1.5	1.00	6	16550 148.9	17.9 347.5
	+I Z SL	-	13 55 33.0	1.6	1.71	4		
	-I Z SL	PKP2	13 55 40.0	1.4	1.83	2		
	+I Z SL	-	13 56 33.0	1.3	1.11	3		
	-I Z SL	APKP	13 57 47.0	1.5	1.26	2		

BUH	-I Z GT	PKP	13 55 34.8	0.8	1.04		16560 148.9	12.2 351.6
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JUN 19 USC6S  
H= 18 56 46.9  
LAT = 53.3 N  
LONG= 159.9 E  
DEPTH= 41 KM  
MAGNITUDE= 5.2  
NEAR EAST COAST OF KAMCHATKA

BNS	+I Z FS	P	19 08 17.9	1.0	1.45	2	8190 73.6	16.7 342.4
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GRF	+E Z BE	P	19 08 21.0	0.9	1.38	4	8240 74.1	18.9 339.5
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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-E Z SL	P	19 08 28.0	1.6	1.30	2	8400 75.5	18.8 338.9
	-E Z SL	XP	19 08 42.0	1.5	0.90	5		
	-E Z SL	APCP	19 08 47.0	1.5	1.00	3		

JUN 20 USCGS  
 H= 02 37 51.5  
 LAT = 53.2 N  
 LONG= 162.4 W  
 DEPTH= 44 KM  
 MAGNITUDE= 5.7  
 SOUTH OF ALASKA

HAM	+I Z ZX	P	02 49 21.1			3	8180 73.5	355.2 4.8
BNS	-I Z FS	P	02 49 34.9	1.5	2.20	8	8440 75.9	353.6 6.8
	+I Z FS	-	02 49 45.0					
	E FS	PP	02 52 20.-					
	E Z SL	S	02 59 16.-					
	E Z SL	-	03 08 04.-					
	E SL	LR	03 20 00.-					
GRF	-I Z BE	P	02 49 43.9	1.1	1.88	7	8600 77.4	356.1 4.2
KRL	-E Z ST	P	02 49 44.8	1.6	2.70		8660 77.9	354.4 6.1
STU	-E Z BE	P	02 49 48.1	1.2	2.07	5	8690 78.2	354.9 5.6
BUH	-E Z GT	P	02 49 48.7	1.0	1.47		8700 78.2	354.3 6.3
FUR	+I Z SL	P	02 49 52.0	1.5	1.70	8	8770 78.9	356.1 4.3
	-I Z SL	PCP	02 49 57.0	1.5	1.54	1		
	+I Z SL	XP	02 50 04.0	1.5	1.83	2		
	-I Z SL	XPCP	02 50 11.0	1.5	1.76	2		
	+I Z SL	-	02 51 41.0	1.6	1.61	4		
	-I Z SL	PP	02 52 48.0	1.5	1.36	3		

JUN 20 USCGS  
 H= 06 41 06.2  
 LAT = 38.6 N  
 LONG= 141.8 E  
 DEPTH= 86 KM  
 MAGNITUDE= 5.4  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	E Z BE	P	06 53 19.-				9110 81.9	37.0 330.1
	+E Z BE	-	06 53 39.2	1.1	1.70	2		
BNS	-I Z FS	P	06 53 41.5				9160 82.4	34.3 333.0
	E Z FS	-	06 53 52.-					
FUR	-E Z SL	P	06 53 25.0	2.0	1.61	2	9240 83.1	36.9 329.2
	-E Z SL	-	06 53 32.0	1.9	1.84	3		
	+I Z SL	AP	06 53 46.0	1.6	1.40	9		
	-I Z SL	XPCP	06 53 59.0	1.5	1.23	1		

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E Z SL	PP	06 56 51.0	1.6	1.26	2		
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JUN 20  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	09 02 09.6	0.4	0.81	3		
	E N BE	SG	09 02 28.9	0.4	1.29	3		

JUN 20  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	11 04 17.5					
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JUN 20 USCGS  
 H= 15 37 50.2  
 LAT = 40.8 N  
 LONG= 142.1 E  
 DEPTH= 67 KM  
 MAGNITUDE= 5.4  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	+I Z BE	P	15 49 55.4	0.8	1.65	9	8910 80.1	35.7 330.1
	-I Z BE	-	15 50 15.1	0.8	1.57	5		
BNS	+I Z FS	P	15 49 56.6	1.5	2.00	5	8950 80.5	33.1 333.0
	E Z FS	-	15 50 16.8					
	E FS	LR	16 18 00.-					
FUR	-E Z SL	P	15 50 02.0	1.5	1.48	4	9040 81.3	35.6 329.2
	-I Z SL	AP	15 50 22.0	1.2	2.18	2		
	-E Z SL	XP	15 50 31.0	2.8	2.26	1		
	-E Z SL	XPCP	15 50 38.0	1.5	1.23	2		
STU	+E Z BE	P	15 50 02.6	0.8	2.05	9	9080 81.6	34.2 330.7
BUH	+E Z GT	P	15 50 05.-	1.2	1.45		9130 82.1	33.6 331.1

JUN 20  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	15 46 24.-					
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JUN 21 USCGS  
 H= 07 47 24.4  
 LAT = 13.3 N  
 LONG= 122.8 E  
 DEPTH= 23 KM  
 MAGNITUDE= 5.2  
 LUZON, PHILIPPINE ISLANDS

FUR	-E Z SL	P	08 00 47.0	1.8	1.65	4	10450 94.0	65.2 321.4
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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-E Z SL	-		08 00 50.0	1.6	1.15	4		
+E Z SL	PCP		08 00 54.0	1.5	1.08	4		
-E Z SL	XPCP		08 01 02.0	2.0	1.69	3		

JUN 21 USCGS

H= 15 12 10.0  
 LAT = 5.5 S  
 LONG= 109.6 E  
 DEPTH=561 KM  
 MAGNITUDE= 5.6  
 JAVA SEA

GRF	E Z BE	PP	15 29 07.8				11080 99.6	87.1 319.3
FUR	-E Z SL	P	15 24 55.0	1.5	0.90	5	11080 99.6	87.4 317.8
	+E Z SL	PP	15 29 05.0	1.6	1.30	2		

JUN 21

NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 20 52.0	1.5	1.00	2		
	+E Z SL	-	16 23 15.0	1.5	1.11	8		
	Z SL	MAXIMUM	16 24 12.0	2.8	2.22			

GRF	E Z BE	-	16 24 22.-					
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JUN 21 USCGS

H= 16 35 08.3  
 LAT = 27.4 N  
 LONG= 57.5 E  
 DEPTH= 65 KM  
 MAGNITUDE= 5.3  
 SOUTHERN IRAN

JUN 21 BCIS

H= 16 35 04.0  
 LAT = 27.2 N  
 LONG= 57.9 E  
 DEPTH= 50 KM  
 NO MAGNITUDE COMPUTED  
 SOUTHERN IRAN

FUR	+E Z SL	P	16 42 48.0	1.6	1.30	3	4590 41.3	103.2 312.9
	+I Z SL	AP	16 43 14.0	1.5	1.40	2		
	-I Z SL	PP	16 44 33.0	1.5	1.34	3		
	-I Z SL	PCP	16 44 45.0	1.8	1.76	2		
	-I Z SL	PPP	16 45 10.0	1.5	1.23	2		
	-I Z SL	-	16 45 22.0	1.5	1.40	2		
	-E Z SL	-	16 45 45.0	1.5	1.11	3		
GRF	-E Z BE	P	16 42 51.9	1.2	1.97	5	4640 41.7	104.8 315.1
BUH	E Z GT	P	16 43 01.-	1.0	0.90		4820 43.4	101.0 313.0

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z FS	P	16 43 16.0	1.5	1.30	2	4950 44.5	102.4 316.0
	E Z FS	-	16 45 20.-					
	E FS	-	16 49 50.-					

JUN 22 USCGS

H= 01 33 24.1  
 LAT = 30.6 N  
 LONG= 79.4 E  
 DEPTH= 19 KM  
 MAGNITUDE= 5.4  
 TIBET-INDIA BORDER REGION

USCGS= FELT IN CENTRAL AND NORTHERN PUNJAB.

GRF	-I Z BE	P	01 42 47.1	1.3	2.02	8	5960 53.6	83.9 311.5
FUR	+I Z SL	P	01 42 48.0	1.7	1.99	9	5970 53.7	82.8 309.6
	-I Z SL	AP	01 42 53.0	1.7	1.65	1		
STU	+E Z BE	P	01 42 56.0	0.8	2.00	9	6120 55.0	81.8 310.6
KRL	-E Z ST	P	01 43 01.0	1.1	2.35		6170 55.5	81.5 310.9
BUH	E Z GT	P	01 43 01.-	2.0	1.66		6190 55.6	81.1 310.6
BNS	E Z FS	P	01 43 04.5	2.0	1.78	2	6230 56.0	81.9 313.4
	Z FS	MAXIMUM	02 09 40.-	14.0				

JUN 22 USCGS

H= 02 33 52.8  
 LAT = 49.2 N  
 LONG= 158.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 KURIL ISLANDS REGION

BNS	-E Z FS	P	02 45 46.0	1.5	1.70	2	8580 77.2	18.8 341.9
	E Z FS	-	02 46 04.-					
	E FS	PP	02 48 43.-					
	E Z SL	S	02 55 45.-					
	E Z SL	-	03 01 20.-					
	SL	MAXIMUM	03 12 00.-	52.0				
GRF	-E Z BE	P	02 45 47.5	1.0	2.00	4	8620 77.5	21.3 338.9
STU	E Z BE	P	02 45 53.7	1.1	1.75	2	8770 78.8	20.0 339.8
FUR	+E Z SL	P	02 45 55.0	1.6	1.34	9	8780 78.9	21.2 338.3
	-I Z SL	-	02 45 59.0	1.3	2.18	3		
	-I Z SL	-	02 46 13.0	1.8	1.93	2		
	-I Z SL	XPCP	02 46 17.0	1.5	1.40	2		
BUH	E Z GT	P	02 45 56.5	2.0	1.36		8800 79.1	19.3 340.4

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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JUN 22 USCGS  
 H= 06 12 24.0  
 LAT = 32.0 S  
 LONG= 177.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 SOUTH OF KERMADEC ISLANDS

GRF	E Z BE	PKP2	06 33 04.5				17910	161.0	24.5 341.5
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JUN 22 USCGS  
 H= 10 45 24.5  
 LAT = 51.5 N  
 LONG= 179.9 W  
 DEPTH= 56 KM  
 MAGNITUDE= 6.1  
 ANDREANOF ISLANDS, ALEUTIAN IS.

HAM	+I Z ZX	P	10 57 03.6			9	8350	75.1	6.4 353.9
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BNS	+E Z FS	P	10 57 17.5	1.0	2.83	9	8650	77.8	4.6 355.4
	+I Z FS	-	10 57 18.3						
	E FS	S	11 07 25.-						
	E Z SL	SS	11 12 08.-						
	E Z SL	LR	11 22 50.-						
	SL	MAXIMUM	11 25 00.-	30.0					

TNS	I	P	10 57 21.4				8720	78.4	5.3 354.5
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GRF	-E Z BE	P	10 57 23.0	0.8	2.42	9	8760	78.8	7.1 352.6
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HEI	+I Z ST	P	10 57 25.2	1.0	2.61	9	8810	79.2	5.5 354.2
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KRL	+I Z ST	P	10 57 28.4	1.0	3.06	9	8850	79.6	5.3 354.4
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STU	+I Z HE	P	10 57 28.6	0.9	2.80	9	8880	79.8	5.8 353.9
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BUH	+I Z GT	P	10 57 30.0	0.6	2.09		8890	80.0	5.2 354.5
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FUR	-I Z SL	P	10 57 31.0	1.5	2.07	9	8930	80.3	7.1 352.4
	-I Z SL	XPCP	10 57 50.0	1.5	1.70	3			
	+I Z SL	-	10 58 12.0	1.5	1.52	9			
	+I Z SL	-	10 58 42.0	1.5	1.48	2			
	+I Z SL	PP	11 00 32.0	1.5	1.40	2			
	-E Z SL	APP	11 00 43.0	2.0	1.91	9			
	-I Z SL	XPP	11 00 59.0	1.6	1.34	2			

JUN 22  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	13 12 19.0	1.7	1.49	2			
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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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JUN 22 USCGS  
 H= 14 30 10.7  
 LAT = 16.9 N  
 LONG= 93.6 W  
 DEPTH= 151 KM  
 MAGNITUDE= 5.1  
 CHIAPAS, MEXICO

BNS	-E Z FS	P	14 42 25.5	2.7	2.00	2	9300	83.6	288.9 38.7
	E Z FS	-	14 43 02.-						

JUN 22 USCGS  
 H= 15 58 17.9  
 LAT = 51.6 N  
 LONG= 180.0 W  
 DEPTH= 57 KM  
 MAGNITUDE= 4.9  
 ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	+E Z BE	P	16 10 15.7	0.8	1.33	2	8750	78.7	7.1 352.6
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JUN 23 USCGS  
 H= 00 17 56.5  
 LAT = 49.3 S  
 LONG= 164.2 E  
 DEPTH= 27 KM  
 MAGNITUDE= 5.3  
 AUCKLAND ISLANDS REGION

FUR	-E Z SL	PKP2	00 38 46.0	2.0	1.61	3	18030	162.1	103.8 276.6
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BNS	E Z SL	PKP	00 38 00.-				18370	165.2	92.6 285.1
	E Z SL	-	00 42 49.-						

JUN 23 USCGS  
 H= 00 54 03.2  
 LAT = 46.3 N  
 LONG= 9.1 E  
 DEPTH= 9 KM  
 NO MAGNITUDE COMPUTED  
 GERMANY

JUN 23 BCIS  
 H= 00 54 03.2  
 LAT = 44.3 N  
 LONG= 9.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
H= 00 54 03.2, 48 DEG 19 MIN N, 9 DEG 01 MIN E DEPTH= 5 KM, ML= 3.1, I=IV-V								
MSS	+I Z ST	PG	00 54 06.3	0.5	2.77	6	20 0.2	38.3 218.4
	-I E ST	SG	00 54 08.3	0.7	3.92	9		
STU	+I Z BE	PG	00 54 13.3	0.3	2.16	8	50 0.5	186.9 6.9
	+I E BE	SG	00 54 19.6					
RAV	-E Z ST	PG	00 54 16.5	0.5	1.70	2	70 0.6	326.7 146.4
BUH	-I Z GT	PG	00 54 16.5	0.1	1.24		80 0.7	122.5 303.2
KRL	-E Z ST	PG	00 54 20.3	0.8	2.26	4	90 0.8	146.9 327.4
HEI	-E Z ST	PG	00 54 25.2	0.5	2.43	9	130 1.1	167.0 347.3
	-E E ST	SG	00 54 39.3	0.5	3.14	9		
FUR	+E Z SL	PN	00 54 34.0	1.5	1.23	9	160 1.5	276.0 94.4
	+I Z SL	SG	00 54 53.0	0.7	2.70	2		
	Z SL	MAXIMUM	00 55 30.0	1.5	1.40			
GRF	+E Z BE	PN	00 54 35.9	0.5	0.90	2	220 2.0	225.7 44.1
	+I Z BE	PG	00 54 41.4	0.3	1.47	4		
	E N BE	SG	00 55 08.-					
BNS	E Z X	PG	00 55 00.6				330 2.9	154.1 335.5
	E Z X	-	00 55 05.-					
	E X	SG	00 55 37.5	1.0	1.48			

JUN 23

NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PG	05 30 27.8	0.6	1.13	4		
	E N BE	SG	05 30 42.9					

JUN 23 USCGS

H= 05 57 06.9

LAT = 37.4 N

LONG = 141.5 E

DEPTH = 33 KM (NORMAL)

MAGNITUDE = 5.0

NEAR EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	06 09 29.5	0.8	1.47	4	9200 82.8	37.7 330.0
FUR	+I Z SL	P	06 09 36.0	1.6	1.15	7	9340 84.0	37.7 329.1
	-E Z SL	XP	06 09 50.0	1.5	0.90	1		

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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
JUN 23 USCGS H= 07 08 27.7 LAT = 18.4 N LONG = 104.5 W DEPTH = 36 KM MAGNITUDE = 5.3 NEAR COAST OF JALISCO, MEXICO								
BNS	E Z FS	P	07 21 20.0	1.6	1.85	4	9880 88.8	298.1 36.0
	E Z FS	LR	07 51 20.-					
	FS	MAXIMUM	07 54 00.-	30.0				
GRF	-E Z BE	P	07 21 34.0	1.6	1.86	2	10200 91.7	301.2 35.8
FUR	-E Z SL	P	07 21 36.0	2.0	1.61	5	10290 92.5	301.2 37.1
	-E Z SL	-	07 21 40.0	1.9	1.91	3		

JUN 23 USCGS

H= 07 54 46.4

LAT = 0.9 S

LONG = 17.5 W

DEPTH = 33 KM (NORMAL)

MAGNITUDE = 4.6

NORTH OF ASCENSION ISLAND

FUR	+E Z SL	P	08 04 16.0	1.5	1.00	6	6110 54.9	216.0 23.2
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JUN 24 USCGS

H= 00 35 05.5

LAT = 11.7 N

LONG = 85.7 W

DEPTH = 100 KM (GEOPHYSICIST)

MAGNITUDE = 5.3

NICARAGUA

BNS	E Z FS	P	00 47 18.8				9210 82.9	279.6 39.5
	E Z FS	-	00 47 46.-					
	E FS	-	00 50 28.5					
GRF	E Z BE	P	00 47 34.3				9520 85.6	282.8 40.3
FUR	-E Z SL	PP	00 51 01.0	1.5	1.00	1	9570 86.0	282.9 41.8
	+I Z SL	-	00 51 12.0	1.5	1.11	2		

JUN 24 USCGS

H= 03 29 17.3

LAT = 5.8 S

LONG = 146.8 E

DEPTH = 113 KM

MAGNITUDE = 5.6

EAST NEW GUINEA REGION



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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	E Z BE	PKP	03 48 00.4				13630 122.5	55.7 327.4
	E Z BE	PP	03 49 38.-					
FUR	-E Z SL	PKP	03 48 03.0	1.5	0.90	2	13720 123.4	56.6 325.8
	-E Z SL	PP	03 49 44.0	2.0	1.61	2		
	-E Z SL	SKKP	04 01 38.0	1.5	1.00	2		

JUN 24 USCGS  
 H= 10 58 07.3  
 LAT = 13.3 N  
 LONG = 123.0 E  
 DEPTH = 42 KM  
 MAGNITUDE = 5.1  
 LUZON, PHILIPPINE ISLANDS

FUR	+E Z SL	P	11 11 30.0	1.6	1.15	7	10460 94.1	65.0 321.4
	-E Z SL	PCP	11 11 34.0	1.8	1.60	2		
	-E Z SL	AP	11 11 39.0	1.8	1.65	2		
	-E Z SL	PP	11 14 41.0	2.0	1.69	2		

JUN 24 FUR  
 H= 12 55 30.0  
 LAT = 47.7 N  
 LONG = 11.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENBERG REGION, BAVARIA. FELT AT PEISSENBERG.

FUR	+I Z SL	PG	12 55 36.0	1.2	2.18	2	50 0.5	204.2 24.0
	+E Z SL	SG	12 55 46.0	2.0	1.81	2		
	Z SL	MAXIMUM	12 56 20.0	1.3	3.10			
GRF	E Z BE	PN	12 55 58.0				220 1.9	184.3 4.1
	+I Z BE	PG	12 56 04.7	0.4	1.29	3		
	E N BE	SG	12 56 27.4					
BUH	E Z GT	PN	12 56 09.-				230 2.1	115.5 297.6

JUN 24 USCGS  
 H= 13 25 20.3  
 LAT = 44.9 N  
 LONG = 10.2 E  
 DEPTH = 45 KM  
 MAGNITUDE = 4.2  
 NORTHERN ITALY

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
JUN 24 BCIS H= 13 25 20.0 LAT = 44.8 N LONG = 10.2 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED NORTHERN ITALY								
FUR	+I Z SL	PN	13 26 12.0	1.6	0.90	1	370 3.4	193.4 12.6
	+I Z SL	PR	13 26 23.0	1.3	2.00	2		
	-I Z SL	PG	13 26 39.0	1.5	1.83	1		
	+I Z SL	SN	13 26 58.0	1.5	1.70	2		
	-I Z SL	SH	13 27 08.0	1.3	1.18	2		
	-I Z SL	SG	13 27 21.0	1.3	2.30	3		
	Z SL	MAXIMUM	13 28 15.0	1.7	2.60			

BUH	+I Z GT	P	13 26 22.0	0.1	1.16		450 4.0	159.7 341.1
KRL	E Z ST	P	13 26 23.2	0.6	2.23	2	480 4.3	162.9 344.2
GRF	E Z BE	P	13 26 32.0	0.7	1.10	2	540 4.8	188.7 8.0
TNS	E	P	13 26 42.5				610 5.5	166.9 348.2
	E	S	13 27 48.0					
BNS	E Z X	PN	13 26 41.-				710 6.4	160.4 342.7
	E Z X	-	13 26 54.7					
	E	X SG	13 28 53.2	2.0	2.32			

JUN 24  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	18 57 04.0	1.5	1.11	2		
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JUN 25 USCGS  
 H= 00 08 55.3  
 LAT = 13.5 N  
 LONG = 120.3 E  
 DEPTH = 53 KM  
 MAGNITUDE = 5.1  
 MINDORO, PHILIPPINE ISLANDS

FUR	+E Z SL	P	00 22 01.0	1.5	1.00	6	10260 92.3	67.0 320.7
	+E Z SL	-	00 22 04.0	1.5	1.00	6		
	+E Z SL	APCP	00 22 07.0	1.5	1.00	3		
	+E Z SL	AP	00 22 12.0	1.5	0.90	3		

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JUN 1969

JUN 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 25 USCGS

H= 04 42 40.6  
LAT = 41.4 N  
LONG= 79.4 E  
DEPTH= 35 KM  
MAGNITUDE= 4.8  
KIRGIZ-SINKIAN; BORDER REGION

GRF	+E Z BE	P	04 51 10.5	0.8	1.25	3	5220 47.0	72.8 304.4
	+E Z BE	AP	04 51 16.6					

JUN 25 USCGS

H= 06 11 50.8  
LAT = 35.9 N  
LONG= 27.5 E  
DEPTH= 38 KM  
MAGNITUDE= 4.7  
DODECANESE ISLANDS

JUN 25 BCIS

H= 06 11 51.0  
LAT = 35.9 N  
LONG= 27.5 E  
DEPTH= 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
DODECANESE ISLANDS

FUR	+E Z SL	P	06 15 44.0	1.5	0.90	3	1910 17.1	129.6 320.5
	+E Z SL	XP	06 15 54.0	2.0	1.76	4		
	-I Z SL	PP	06 15 58.0	1.5	1.18	2		
	-E Z SL	PPP	06 16 04.0	1.5	1.11	2		

GRF	E Z BE	P	06 16 02.3				2020 18.2	133.1 324.2
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JUN 25 USCGS

H= 07 24 49.4  
LAT = 4.5 N  
LONG= 96.7 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
NORTHERN SUMATRA

FUR	+E Z SL	P	07 37 17.0	1.5	1.23	9	9300 83.6	90.4 317.8
	-E Z SL	XP	07 37 24.0	1.5	1.18	2		
	-E Z SL	XPCP	07 37 33.0	1.6	1.08	6		
	-E Z SL	PP	07 40 27.0	1.5	1.08	1		
	+E Z SL	XPP	07 40 42.0	1.8	1.53	6		

GRF	-E Z BE	P	07 37 18.0	1.8	2.00	2	9300 83.7	90.5 319.4
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BUH	E Z GT	P	07 37 25.-				9520 85.6	88.2 318.4
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JUN 1969

JUN 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 25

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	10 00 40.7					
	E N BE	SG	10 01 10.0					

JUN 25

NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	18 36 58.-					
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JUN 26

NO DETERMINATION OF EPICENTER

BNS	E N X	- SG	11 36 02.0					
	E Z X	-	11 36 03.0					

JUN 26

NO DETERMINATION OF EPICENTER

GRF	+E Z BE	PG	12 54 46.1	0.6	1.02	3		
	+E N BE	SG	12 55 00.7					

JUN 26

NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	14 08 26.5					
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JUN 26 USCGS

H= 15 46 31.7  
LAT = 42.6 N  
LONG= 131.0 E  
DEPTH=495 KM  
MAGNITUDE= 4.5  
E. RUSSIA-N.E. CHINA BORDER REG.

GRF	+E Z BE	P	15 57 17.9	0.8	1.35	3	8230 74.0	41.8 324.1
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JUN 26

NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	22 45 45.0	2.0	1.61	5		
	+E Z SL	-	22 45 56.0	2.0	1.81	8		

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 27 USCGS

H= 02 15 46.3  
 LAT = 42.4 N  
 LONG= 142.9 E  
 DEPTH= 32 KM  
 MAGNITUDE= 4.9  
 HOKKAIDO, JAPAN REGION

GRF	+I Z BE	P	02 27 49.0	1.0	1.63	3	8790 79.0	34.3 330.4
	+E Z BE	PCP	02 28 11.2					
BNS	E Z FS	P	02 27 49.-				8820 79.4	31.7 333.3
	E Z FS	-	02 28 12.-					
	E FS	LR	02 53 30.-					
FUR	-E Z SL	P	02 27 55.0	1.6	1.26	9	8920 80.2	34.2 329.5
	-E Z SL	APCP	02 28 10.0	1.5	1.11	2		
	-E Z SL	XPCP	02 28 17.0	1.5	1.11	2		

JUN 27 USCGS

H= 07 41 22.2  
 LAT = 14.7 S  
 LONG= 167.7 E  
 DEPTH= 39 KM  
 MAGNITUDE= 5.3  
 NEW HEBRIDES ISLANDS

FUR	-E Z SL	PKP	08 00 50.0	1.5	1.08	2	15720 141.3	38.3 334.6
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JUN 27 USCGS

H= 09 00 32.7  
 LAT = 21.0 S  
 LONG= 11.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 SOUTH ATLANTIC RIDGE

FUR	-E Z SL	P	09 11 54.0	1.8	1.60	7	7990 71.9	202.5 15.9
	+E Z SL	PCP	09 12 12.0	1.8	1.60	7		
GRF	E Z BE	P	09 12 02.6				8150 73.3	202.3 15.3

JUN 27 USCGS

H= 12 09 50.9  
 LAT = 16.6 S  
 LONG= 172.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 SAMOA ISLANDS REGION

BNS	I Z FS	PKP	12 29 29.0	1.3	1.70	3	16210 145.8	359.6 0.3
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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	PKP	12 29 34.5				16330 146.9	6.7 355.5
FUR	-E Z SL	PKP	12 29 36.0	2.0	1.69	6	16500 148.4	7.0 355.1
	-E Z SL	PKP2	12 29 42.0	1.5	1.00	6		

JUN 27 NFB

H= 15 05 00.9  
 LAT = 50.5 N  
 LONG= 10.0 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT HILDERS (RHOEN), SHOTPOINT NO. 2  
 50 DEG 32 MIN 30 SEC N, 10 DEG 02 MIN 22 SEC E  
 HEIGHT= 730 METERS, CHARGE 11.95 TONS.

TNS	E	P	15 05 27.5				120 1.1	72.1 253.3
GRF	+E Z BE	Pg	15 05 23.0				130 1.1	318.7 137.8
	E N HE	Sg	15 05 40.0					
BUH	E Z GT	PN	15 05 43.-				250 2.2	31.6 212.9

JUN 27

NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15 07 01.0	1.5	0.90	5		
	-E Z SL	-	15 08 02.0	1.5	1.00	2		

JUN 27 USCGS

H= 15 31 07.8  
 LAT = 19.9 S  
 LONG= 178.3 W  
 DEPTH= 562 KM  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

BNS	-I Z FS	PKP	15 49 53.0	1.2	2.00	6	16540 148.7	9.9 353.4
	E Z FS	-	15 53 40.5					
GRF	-I Z HE	PKP	15 49 54.9	0.8	1.57	3	16610 149.3	17.7 347.9
FUR	-E Z SL	PKP	15 49 51.0	1.5	0.90	5	16770 150.8	18.6 346.9
	-I Z SL	-	15 49 57.0	1.4	1.56	3		
	-I Z SL	PKP2	15 50 08.0	1.5	1.23	9		

JUN 27

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	15 53 25.5					
	E Z HE	Pg	15 53 28.3					

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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E N BE	SG		15 53 50.6					
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JUN 28 USCGS

H= 04 34 42.6

LAT = 12.8 N

LONG = 89.2 W

DEPTH = 69 KM

MAGNITUDE = 5.2

OFF COAST OF CENTRAL AMERICA

FUR	+E Z SL	P	04 47 25.0	1.5	0.70	3	9720 87.4	286.2 41.2
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JUN 28

NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	10 30 45.5					
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	+I N BE	SG	10 30 58.7					
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JUN 28

NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	10 48 12.-					
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FUR	-E Z SL	-	10 48 59.0	1.5	1.08	1		
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	+E Z SL	-	10 49 40.0	1.5	1.11	8		
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JUN 28 USCGS

H= 15 48 52.0

LAT = 60.2 N

LONG = 153.9 W

DEPTH = 98 KM

NO MAGNITUDE COMPUTED

SOUTHERN ALASKA

GRF	E Z BE	P	17 55 38.3				7760 69.8	352.1 10.3
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FUR	+E Z SL	P	17 55 43.0	1.5	1.18	3	7930 71.3	352.2 10.4
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	+E Z SL	-	17 55 51.0	1.5	0.90	2		
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JUN 28 USCGS

H= 21 24 50.7

LAT = 22.3 S

LONG = 170.6 E

DEPTH = 33 KM

MAGNITUDE = 4.8

LOYALTY ISLANDS REGION

GRF	+E Z BE	PKP	21 44 35.0	0.8	0.88	1	16470 148.1	38.2 334.3
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	-E Z BE	-	21 44 38.4					
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JUN 1969

JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	+I Z FS	PKP	21 44 35.5	1.0	1.48	2	16520 148.6	30.5 339.7
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FUR	+E Z SL	PKP	21 44 38.0	1.7	1.49	7	16600 149.3	39.9 332.4
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	+I Z SL	-	21 44 42.0	1.5	1.40	3		
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	-E Z SL	APKP	21 44 49.0	1.5	0.90	5		
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JUN 29 USCGS

H= 07 57 11.2

LAT = 17.7 S

LONG = 178.7 W

DEPTH = 585 KM

MAGNITUDE = 5.1

FIJI ISLANDS REGION

FUR	-I Z SL	PKP	08 15 54.0	1.5	1.11	4	16520 148.6	18.4 347.2
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JUN 29 USCGS

H= 10 34 06.5

LAT = 30.5 S

LONG = 178.2 W

DEPTH = 43 KM

MAGNITUDE = 5.6

KERMADEC ISLANDS

BNS	+E Z FS	PKP	10 53 59.5				17700 159.2	13.3 350.3
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	E Z FS	-	10 54 13.-	2.4	1.85			
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	E Z FS	PP	10 58 18.-					
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	E Z SL	-	11 11 44.-					
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	E Z SL	LR	11 49 00.-	40.0				
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	SL	MAXIMUM	11 55 00.-	26.0				
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GRF	E Z BE	PKP	10 54 00.4				17740 159.6	24.0 342.2
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	+I Z BE	-	10 54 42.2	1.4	2.04	2		
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	E Z BE	PP	10 58 22.2					
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KRL	+E Z ST	PKP	10 54 02.-	2.0	2.53	2	17890 160.8	17.7 346.6
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FUR	-I Z SL	PKP	10 54 01.0	1.5	1.26	9	17890 160.9	25.9 340.2
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	+I Z SL	XPKP	10 54 13.0	1.8	1.93	3		
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	+E Z SL	PKP2	10 54 45.0	1.5	1.34	9		
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	-E Z SL	APKP	10 54 56.0	1.6	1.26	3		
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	+I Z SL	XPKP	10 55 03.0	2.0	2.09	1		
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	-E Z SL	PKS	10 57 34.0	1.7	1.60	2		
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	+E Z SL	PP	10 58 30.0	1.5	1.08	7		
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	-I Z SL	APP	10 58 38.0	1.5	1.26	2		
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	+E Z SL	XPP	10 58 44.0	1.5	1.00	2		
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	+E Z SL	PCPPKP	11 04 22.0	1.8	1.76	1		
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	Z SL	MAXIMUM	11 05 00.0	25.0	3.40			
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	E SL	MAXIMUM	11 18 00.0	21.0	3.44			
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BUH	E Z GT	PKP	10 54 00.5				17930 161.2	17.6 346.6
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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUN 29 USCGS  
 H= 17 09 13.9  
 LAT = 62.8 S  
 LONG= 166.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 BALLENY ISLANDS REGION

FUR	+E Z SL	PKP	17 29 10.0	2.0	1.69	2	17770 159.8	145.7 235.1
	+E Z SL	APKP	17 29 20.0	2.0	1.69	2		
	+E Z SL	PKP2	17 29 49.0	1.8	1.71	2		
	+E Z SL	-	17 29 56.0	2.0	1.87	5		
	Z SL	MAXIMUM	17 46 00.0	20.0	3.58			
GRF	E Z BE	PKP	17 29 13.8				17910 161.1	143.2 237.7
	-E Z BE	PKP	17 29 54.7	1.1	1.52	3		
	E Z BE	-	17 31 10.-					
BNS	E Z FS	PKP	17 29 17.5				18200 163.6	144.3 233.3
	E Z FS	-	17 30 08.-					
	E FS	-	17 31 39.-					
	E Z SL	-	17 32 15.-					
	E Z SL	LR	18 19 52.-	64.0				
	SL	MAXIMUM	18 34 00.-	30.0				

JUN 30 USCGS  
 H= 08 51 56.7  
 LAT = 26.9 N  
 LONG= 92.6 E  
 DEPTH= 64 KM  
 MAGNITUDE= 5.1  
 EASTERN INDIA

GRF	-E Z BE	P	09 02 30.4	1.0	1.38	2	7190 64.6	77.8 314.7
FUR	+E Z SL	P	09 02 31.0	1.5	1.11	8	7220 64.9	77.1 313.0
BUH	+E Z GT	P	09 02 43.-	1.0	1.35		7420 66.8	75.3 314.1

JUN 30 USCGS  
 H= 09 39 27.2  
 LAT = 45.6 N  
 LONG= 151.2 E  
 DEPTH= 48 KM  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	-I Z BE	P	09 51 27.0	0.8	1.43	6	8770 78.9	27.4 334.8
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JUN 30  
 NO DETERMINATION OF EPICENTER

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JUN 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z FS	PG	12 45 53.0					
	E Z FS	SG	12 46 10.0					

JUN 30  
 NO DETERMINATION OF EPICENTER

GRF	+E Z HE	PG	14 01 03.6	0.5	1.04	3		
	+E N BE	SG	14 01 18.9	0.5	1.12	4		

JUN 30  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	-	16 11 47.1	1.0	1.35	2		
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JUN 30 USCGS  
 H= 18 36 24.2  
 LAT = 26.0 N  
 LONG= 64.1 W  
 DEPTH= 17 KM  
 MAGNITUDE= 5.3  
 NORTH ATLANTIC OCEAN

BNS	E Z FS	P	18 46 51.5	2.0	1.48	2	7010 63.0	268.8 42.2
BUH	+E Z GT	P	18 46 57.-	1.0	1.17		7080 63.7	270.8 44.8
GRF	E Z BE	P	18 47 09.6	1.8	2.00	2	7290 65.6	272.5 43.6
FUR	-E Z SL	P	18 47 10.0	2.0	1.76	7	7310 65.7	273.3 45.3
	-E Z SL	XPCP	18 47 58.0	1.5	0.90	5		

JUL 01 USCGS  
 H= 06 00 55.3  
 LAT = 28.2 N  
 LONG= 55.4 E  
 DEPTH= 95 KM  
 MAGNITUDE= 4.8  
 SOUTHERN IAN

GRF	+E Z BE	P	06 08 21.2	0.8	1.33	5	4420 39.8	105.9 315.0
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JUL 01  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	PG	14 48 37.5	0.8	1.18	2		
	-I Z BE	SG	14 48 58.6	0.7	1.32	3		

BNS	I Z FS	P	14 49 39.8					2
	I Z FS	-	14 49 44.8					

JUL 1969		292		JUL 1969		293		JUL 1969	
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
JUL 01 USCGS H= 18 22 52.8 LAT = 15.9 S LONG= 175.1 W DEPTH=263 KM MAGNITUDE= 4.8 TONGA ISLANDS									
BNS	E Z FS	PKP	18 41 45.0			2	16120 144.9	3.8 357.5	
	-I Z FS	-	18 41 59.5	6.0	2.00				
	E FS	-	18 43 15.3						
GRF	+E Z BE	PKP	18 42 03.0				16220 145.9	10.9 352.7	
	E Z BE	APKP	18 43 16.-						
FUR	-E Z SL	PKP	18 42 07.0	1.2	1.98	4	16390 147.4	11.4 352.1	
	-E Z SL	-	18 43 23.0	1.5	1.00	3			
JUL 02 USCGS H= 00 10 27.6 LAT = 6.8 S LONG= 11.6 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 ASCENSION ISLAND REGION									
FUR	-E Z SL	P	00 20 21.0	1.5	1.00	6	6490 58.3	206.9 17.8	
	-E Z SL	AP	00 20 28.0	2.0	1.61	3			
	+E Z SL	XP	00 20 34.0	1.6	1.20	1			
	+I Z SL	-	00 20 42.0	1.7	1.56	2			
	-E Z SL	PCP	00 21 12.0	1.5	1.00	3			
	+E Z SL	APCP	00 21 22.0	2.3	1.87	2			
	+E Z SL	-	00 22 12.0	1.6	1.15	4			
	-E Z SL	Pp	00 22 26.0	2.0	1.61	3			
	-E Z SL	APP	00 22 38.0	1.7	1.34	3			
	+E Z SL	PPP	00 23 50.0	1.5	0.85	4			
	Z SL	MAXIMUM	00 46 00.0	18.0	2.81				
GRF	E Z BE	P	00 20 30.-				6640 59.7	206.5 16.9	
BNS	E Z FS	P	00 20 32.0	2.4	1.78	2	6650 59.8	201.7 13.6	
JUL 02 USCGS H= 00 28 13.4 LAT = 7.1 S LONG= 12.0 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 ASCENSION ISLAND REGION									
FUR	+E Z SL	P	00 38 10.0	1.5	1.08	7	6530 58.7	207.4 18.1	
	-E Z SL	XP	00 38 23.0	2.0	1.91	5			
	+E Z SL	-	00 38 31.0	1.5	1.11	4			

JUL 1969		293		JUL 1969					
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
	+E Z SL	APCP	00 39 07.0	1.5	0.90	5			
GRF	E Z HE	P	00 38 23.-				6680 60.1	206.9 17.2	
BNS	E Z FS	P	00 38 24.-				6690 60.2	202.1 13.9	
JUL 02 NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	05 39 39.0	1.5	0.90	3			
	+E Z SL	-	05 39 52.0	1.5	1.08	4			
JUL 02 USCGS H= 07 55 45.5 LAT = 42.3 N LONG= 12.1 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 CENTRAL ITALY									
JUL 02 BCIS H= 07 55 45.0 LAT = 42.1 N LONG= 11.9 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED CENTRAL ITALY									
USCGS= MINOR DAMAGE AT CIVITAVECCHIA AND TOLFA, FELT IN VITERBO-LAKE BRACCIANO AREA.									
FUR	+E Z SL	PN	07 57 15.0	1.5	0.85	4	660 5.9	174.4 355.0	
	+E Z SL	PG	07 57 55.0	1.5	1.23	2			
	+E Z SL	SN	07 58 28.0	1.5	1.00	1			
	-I Z SL	SR	07 58 40.0	1.5	1.40	8			
	-I Z SL	SG	07 59 06.0	1.5	1.52	2			
	Z SL	MAXIMUM	07 59 50.0	1.5	1.57				
BUH	E Z GT	P	07 57 27.-				770 7.0	155.9 338.6	
GRF	E Z BE	PN	07 57 37.0				830 7.5	175.2 355.8	
	-E Z BE	PG	07 58 10.4	1.2	1.51	1			
JUL 02 USCGS H= 08 02 59.4 LAT = 42.3 N LONG= 12.2 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.5 CENTRAL ITALY									



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPTC.
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JUL 02 BCIS  
H= 08 02 53.0  
LAT = 42.1 N  
LONG= 11.9 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
CENTRAL ITALY

BCIS = NORTHWEST OF ROME. FELT.

FUR	-E Z SL	PN	08 04 28.0	1.5	0.90	5	660	5.9	173.2 353.9
	-E Z SL	PB	08 04 42.0	1.5	0.90	1			
	+E Z SL	PG	08 05 07.0	1.5	1.00	6			
	-E Z SL	SN	08 05 38.0	1.5	0.90	1			
	+E Z SL	SB	08 05 54.0	1.6	1.08	3			
	-E Z SL	SG	08 06 07.0	1.5	1.00	1			
	Z SL	MAXIMUM	08 07 07.0	1.8	1.79				
GRF	E Z BE	PG	08 05 22.5				830	7.4	174.3 355.0

JUL 02 USCGS  
H= 09 59 53.4  
LAT = 20.7 N  
LONG= 99.4 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
BURMA

GRF	-E Z BE	P	10 11 24.3				8150	73.3	77.6 317.3
FUR	+E Z SL	P	10 11 26.0	1.9	1.73	5	8190	73.6	77.2 315.8
	+I Z SL	-	10 11 29.0	1.6	1.34	9			
	-E Z SL	Xp	10 11 36.0	1.5	0.85	1			
	-E Z SL	PCP	10 11 39.0	1.5	1.00	3			
	+E Z SL	XPCP	10 11 54.0	1.5	0.90	1			
	-E Z SL	PP	10 14 10.0	1.8	1.36	1			

JUL 02 USCGS  
H= 10 31 22.0  
LAT = 39.7 N  
LONG= 16.7 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.3  
SOUTHERN ITALY

FUR	+E Z SL	P	10 33 44.0	1.5	0.48	1	1040	9.3	153.5 337.2
	-E Z SL	SSS	10 35 47.0	1.5	0.90	1			
	Z SL	MAXIMUM	10 37 50.0	2.0	1.96				

JUL 02  
NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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HLG	Z X	-	12 09 00.-						
	N X	-	12 09 00.-						
	E X	-	12 09 00.-						

JUL 02  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	13 40 57.8						
	E N BE	SG	13 41 26.0						

JUL 02  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	14 10 00.-						
	N X	-	14 10 00.-						
	E X	-	14 10 00.-						

JUL 02  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 07 41.0	1.5	1.08	1			
	-E Z SL	-	16 08 03.0	1.8	1.65	2			

JUL 02 USCGS  
H= 17 27 15.7  
LAT = 28.3 S  
LONG= 176.5 W  
DEPTH= 8 KM  
MAGNITUDE= 4.8  
KERMADEC ISLANDS REGION

GRF	-E Z BE	PKP	17 47 47.2				17550	157.8	18.4 346.6
FUR	+E Z SL	PKP	17 47 30.0	1.5	0.58	4	17710	159.2	19.8 345.1
	+E Z SL	-	17 47 53.0	1.5	1.00	6			
	-E Z SL	PKP2	17 48 11.0	1.5	0.90	3			

JUL 02 BCIS  
H= 19 43 38.0  
LAT = 45.0 N  
LONG= 7.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTHERN ITALY

BUH	E N GT	P	19 45 18.7				410	3.7	188.0 7.5
FUR	-E Z SL	PN	19 44 45.0	1.5	0.85	4	460	4.1	220.8 38.1
	+E Z SL	PR	19 44 52.0	1.5	0.90	2			
	Z SL	MAXIMUM	19 46 40.0	1.5	0.90				



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z HE	PN	19 45 17.4				590 5.3	209.7 26.9
	E N RE	SG	19 46 29.-					

JUL 03  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	09 04 00.-					
	N X	-	09 04 00.-					
	E X	-	09 04 00.-					

JUL 03 USCGS  
M= 09 42 02.3  
LAT = 38.5 N  
LONG= 22.1 E  
DEPTH= 26 KM  
MAGNITUDE= 4.6  
GREECE

JUL 03 BCIS  
M= 09 42 05.0  
LAT = 38.5 N  
LONG= 22.2 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE

FUR	+E Z SL	P	09 45 00.0	1.7	1.11	2	1390 12.5	136.9 324.4
	+E Z SL	Xp	09 45 11.0	1.5	0.90	3		
	+E Z SL	-	09 45 27.0	1.5	0.90	3		
	-E Z SL	-	09 45 34.0	1.5	1.18	5		
	+E Z SL	S	09 47 27.0	2.0	1.61	3		
	+I Z SL	SS	09 47 45.0	1.5	1.08	7		
	+E Z SL	SSS	09 47 57.0	1.8	1.53	2		
	+I Z SL	-	09 48 06.0	1.5	1.11	2		
	Z SL	MAXIMUM	09 51 20.0	5.0	2.73			

GRF	-E Z BE	P	09 45 24.2				1520 13.7	141.1 328.7
BNS	E Z X	P	09 45 58.-			2	1820 16.3	134.0 324.6
	E Z X	-	09 46 17.5					
	X	LR	09 52 50.-	12.0				

JUL 03  
NO DETERMINATION OF EPICENTER

GRF	-I Z HE	PN	13 12 23.1	0.2	0.92	2		
	+E Z HE	PG	13 12 25.0	0.4	0.92	2		
	-E N BE	SG	13 12 49.2					

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 03 USCGS  
M= 13 43 22.2  
LAT = 16.8 S  
LONG= 173.7 W  
DEPTH= 50 KM  
MAGNITUDE= 4.5  
TONGA ISLANDS

GRF	E Z BE	PKP	14 03 03.2				16340 147.0	8.6 354.2
FUR	+E Z SL	PKP	14 03 06.0	1.5	0.90	5	16510 148.5	9.1 353.6
	-E Z SL	-	14 03 34.0	1.5	0.90	5		

JUL 03  
NO DETERMINATION OF EPICENTER

HLG	Z X	-	14 26 00.-					
	N X	-	14 26 00.-					
	E X	-	14 26 00.-					

JUL 03 USCGS  
M= 16 59 06.9  
LAT = 16.7 N  
LONG= 98.5 W  
DEPTH= 26 KM  
MAGNITUDE= 5.2  
NEAR COAST OF GUERRERO, MEXICO

BNS	-E Z FS	P	17 11 50.3	2.3	1.85	2	9640 86.7	292.4 37.6
	E Z FS	-	17 12 10.5					
FUR	+E Z SL	P	17 12 07.0	1.7	1.34	2	10030 90.2	295.6 39.1

JUL 03  
NO DETERMINATION OF EPICENTER

GRF	+E Z BE	-	17 48 35.3	0.5	1.12	2		
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JUL 03 USCGS  
M= 18 01 48.5  
LAT = 51.7 N  
LONG= 178.0 E  
DEPTH= 84 KM  
MAGNITUDE= 5.1  
RAT ISLANDS, ALUTIAN ISLANDS

BNS	+E Z FS	P	18 13 36.3	2.0	1.60	2	8600 77.4	5.8 354.1
	E Z FS	-	18 14 18.5					
GRF	+E Z BE	P	18 13 41.5				8710 78.3	8.4 351.3



JUL 1969				JUL 1969						
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
FUR	-E Z SL	P	18 13 49.0	1.5	0.90	1	8880 79.8	8.3	351.0	
	+E Z SL	Ap	18 14 17.0	1.5	0.90	3				
	+E Z SL	PP	18 16 52.0	1.5	0.90	1				
JUL 04 USCGS										
H= 02 46 57.0										
LAT = 49.7 N										
LONG= 78.2 E										
DEPTH= 0 KM (GEOPHYSICIST)										
MAGNITUDE= 5.3										
EASTERN KAZAKH SSR										
JUL 04 BCIS										
H= 02 47 00.0										
LAT = 50.0 N										
LONG= 78.0 E										
DEPTH= 0 KM (GEOPHYSICIST)										
NO MAGNITUDE COMPUTED										
EASTERN KAZAKH SSR										
BCIS = PROBABLY ARTIFICIAL.										
GRF	+I Z BE	P	02 54 52.2	0.9	1.57	5	4670 42.0	63.2	296.6	
FUR	+I Z SL	P	02 54 58.0	1.4	1.66	9	4740 42.6	61.8	294.6	
	+E Z SL	PP	02 56 39.0	1.5	0.90	5				
BNS	E Z FS	P	02 54 47.-			2	4860 43.7	62.6	300.0	
	E Z FS	-	02 55 05.5	1.2	1.48					
JUL 04 USCGS										
H= 06 49 35.3										
LAT = 20.0 S										
LONG= 178.6 W										
DEPTH= 650 KM										
MAGNITUDE= 4.9										
FIJI ISLANDS REGION										
BNS	E Z FS	PKP	07 08 11.8	1.0	1.90	6	16540 148.7	10.5	353.0	
GRF	-E Z BE	PKP	07 08 14.4	0.9	1.51	2	16600 149.3	18.3	347.5	
	+E Z BE	-	07 08 22.0							
FUR	-E Z SL	PKP	07 08 11.0	1.5	0.90	5	16760 150.8	19.3	346.4	
	-I Z SL	-	07 08 18.0	1.5	1.08	7				
	-I Z SL	PKP2	07 08 27.0	1.5	1.30	2				

JUL 1969				JUL 1969						
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
JUL 04 USCGS										
H= 10 13 51.8										
LAT = 35.3 N										
LONG= 27.8 E										
DEPTH= 33 KM (NORMAL)										
MAGNITUDE= 4.3										
DODECANESE ISLANDS										
JUL 04 BCIS										
H= 10 13 48.0										
LAT = 35.2 N										
LONG= 27.7 E										
DEPTH= 33 KM (NORMAL)										
NO MAGNITUDE COMPUTED										
DODECANESE ISLANDS										
FUR	-E Z SL	P	10 17 58.0	1.2	1.84	2	1970 17.8	130.5	321.5	
	+E Z SL	Ap	10 18 08.0	1.8	1.45	5				
	+E Z SL	PP	10 18 15.0	1.3	1.70	2				
JUL 04 USCGS										
H= 11 16 01.0										
LAT = 7.4 N										
LONG= 82.7 W										
DEPTH= 33 KM (NORMAL)										
MAGNITUDE= 5.2										
SOUTH OF PANAMA										
BUH	E Z GT	P	11 28 35.-				9460 85.1	275.6	41.7	
GRF	+E Z BE	P	11 28 45.0	1.2	1.58	3	9670 86.9	277.8	40.5	
FUR	+E Z SL	P	11 28 46.0	2.0	1.91	2	9690 87.2	277.9	42.0	
	-E Z SL	XDCP	11 28 59.0	1.5	1.08	7				
JUL 04										
NO DETERMINATION OF EPICENTER										
GRF	-E Z BE	PG	16 33 56.1	0.6	0.90	2				
	E N BE	SG	16 34 25.-							
JUL 04										
NO DETERMINATION OF EPICENTER										
FUR	+E Z SL	-	18 11 50.0	1.5	0.90	5				

300

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 04 USCGS  
 H= 22 54 18.0  
 LAT = 55.9 S  
 LONG= 147.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 WEST OF MACQUARIE ISLAND

FUR	-E Z SL	PKP	23 14 09.0	1.5	0.48	2	16930 152.2	122.7 272.6
	-E Z SL	APKP	23 14 16.0	1.5	1.08	3		
	-E Z SL	XPKP	23 14 21.0	1.5	1.00	1		
	+I Z SL	PKP2	23 14 28.0	1.5	1.30	6		
	+E Z SL	APKP	23 14 35.0	1.8	1.76	2		
	-I Z SL	XPKP	23 14 40.0	2.0	2.08	2		
	-E Z SL	SKP	23 17 34.0	1.5	0.90	5		
	-E Z SL	PP	23 18 00.0	1.5	1.08	4		
GRF	E Z BE	PKP	23 14 17.-				17020 153.1	120.2 275.4

JUL 05 USCGS  
 H= 01 32 50.8  
 LAT = 19.3 S  
 LONG= 175.9 W  
 DEPTH=187 KM  
 MAGNITUDE= 4.6  
 TONGA ISLANDS

BNS	-I Z FS	PKP	01 52 15.5	1.2	1.70	3	16490 148.3	5.5 356.3
	E Z FS	-	01 52 19.3					
	E FS	-	01 52 26.5					
GRF	+E Z BE	PKP	01 52 18.3	1.2	1.51	2	16580 149.1	13.1 351.0
FUR	+E Z SL	PKP	01 52 17.0	1.5	0.90	5	16750 150.6	13.9 350.2
	-I Z SL	-	01 52 22.0	1.0	2.18	2		
	+E Z SL	PKP2	01 52 29.0	1.5	1.08	4		
	+E Z SL	APKP	01 53 10.0	1.5	1.08	2		
	+E Z SL	APKP	01 53 24.0	1.2	1.84	5		

JUL 05 USCGS  
 H= 01 44 01.1  
 LAT = 3.8 S  
 LONG= 131.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 WEST NEW GUINEA REGION

FUR	-E Z SL	PKP	02 02 37.0	1.8	1.45	5	12520 112.6	69.1 321.2
	-E Z SL	-	02 02 45.0	1.5	1.00	1		
	-E Z SL	PP	02 03 29.0	1.8	1.45	3		
	-E Z SL	APP	02 03 36.0	1.8	1.60	1		

301

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 05 USCGS  
 H= 04 55 33.7  
 LAT = 5.6 S  
 LONG= 77.2 W  
 DEPTH= 37 KM  
 MAGNITUDE= 5.2  
 NORTHERN PERU

BNS	E Z FS	P	05 08 36.2				10090 90.8	262.1 39.0
	E Z FS	-	05 08 43.-					
FUR	+E Z SL	P	05 08 42.0	1.5	0.85	4	10350 93.1	265.1 42.1
	+E Z SL	-	05 08 47.0	2.0	1.61	5		
	+E Z SL	AP	05 08 53.0	1.5	1.00	6		
GRF	E Z HE	P	05 08 47.5				10360 93.2	265.1 40.6

JUL 05 USCGS  
 H= 06 08 42.4  
 LAT = 21.2 S  
 LONG= 178.8 W  
 DEPTH=500 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.7  
 FIJI ISLANDS REGION

BNS	E Z FS	PKP	06 27 36.2	1.0	1.70	3	16670 149.9	11.2 352.4
	E Z FS	-	06 27 44.5					
GRF	+I Z BE	PKP	06 27 38.3	1.0	1.65	5	16730 150.5	19.3 346.7
FUR	-E Z SL	PKP	06 27 34.0	1.5	0.85	4	16890 151.9	20.4 345.6
	-I Z SL	-	06 27 41.0	1.5	1.00	2		
	-I Z SL	PKP2	06 27 53.0	1.5	1.08	4		

JUL 05  
 NO DETERMINATION OF EPICENTER

GRF	-I Z HE	-	12 08 49.2	0.5	1.02	3		
	-E Z BE	-	12 08 58.9					
	+E Z BE	-	12 09 03.5					
	E N GT	-	12 09 22.3					

JUL 05 USCGS  
 H= 15 22 45.2  
 LAT = 54.0 N  
 LONG= 160.5 E  
 DEPTH= 48 KM  
 MAGNITUDE= 4.7  
 NEAR EAST COAST OF KAMCHATKA

GRF	E Z BE	P	15 34 15.7				8170 73.5	18.4 339.7
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302

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	P	15 34 24.0	1.6	1.08	2	8330 74.9	18.3 339.2
	+E Z SL	-	15 35 30.0	1.6	1.08	6		

JUL 06 USCGS  
 H= 10 50 30.5  
 LAT = 25.4 S  
 LONG= 179.6 E  
 DEPTH=522 KM  
 MAGNITUDE= 4.8  
 SOUTH OF FIJI ISLANDS

GRF	+E Z BE	PKP2	11 09 48.2	1.0	1.20	2	17140 154.1	24.7 342.5
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FUR	-E Z SL	PKP2	11 09 54.0	1.6	1.00	2	17290 155.5	26.2 340.9
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JUL 06 USCGS  
 H= 11 35 52.7  
 LAT = 26.7 N  
 LONG= 128.7 E  
 DEPTH= 37 KM  
 MAGNITUDE= 4.9  
 RYUKYU ISLANDS

GRF	E Z BE	P	11 48 32.5				9550 85.9	52.7 324.7
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FUR	-E Z SL	APCP	11 48 40.0	1.5	0.90	1	9650 86.8	52.7 323.5
	-E Z SL	XPCP	11 48 49.0	1.8	1.53	2		

JUL 06 USCGS  
 H= 12 41 40.1  
 LAT = 1.6 N  
 LONG= 79.3 W  
 DEPTH= 47 KM  
 MAGNITUDE= 4.5  
 NEAR COAST OF ECUADOR

BUH	E N GT	P	12 54 25.-				9700 87.2	269.2 41.5
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KRL	E Z ST	P	12 53 57.5				9710 87.3	269.3 41.2
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FUR	-E Z SL	P	12 54 33.0	2.0	1.91	2	9920 89.2	271.5 42.0
	+I Z SL	XPCP	12 54 49.0	1.8	1.93	3		

JUL 06  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	12 53 36.0	1.8	1.60	7		
	-I Z SL	-	12 54 13.0	1.2	2.14	2		

GRF	E Z BE	P	12 54 05.1					
	E N HE	S	12 55 01.-					

303

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	I Z FS	P	12 54 21.0					
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JUL 06 USCGS  
 H= 14 28 21.9  
 LAT = 15.3 S  
 LONG= 173.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

GRF	+E Z HE	PKP	14 47 58.8	1.0	1.38	4	16180 145.5	7.4 355.0
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FUR	-E Z SL	PKP	14 48 03.0	1.5	1.11	4	16350 147.0	7.8 354.6
	+E Z SL	APKP	14 48 13.0	1.5	1.08	1		
	-I Z SL	XPKP	14 48 22.0	1.5	1.40	3		

JUL 06 USCGS  
 H= 14 31 16.7  
 LAT = 15.3 S  
 LONG= 173.4 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 TONGA ISLANDS

BNS	I Z FS	PKP	14 50 49.6	1.0	1.78	3	16060 144.4	1.0 359.3
	E Z FS	-	14 50 58.5					
	E FS	-	14 52 12.5					

GRF	E Z BE	PKP	14 50 53.5				16180 145.5	7.9 354.7
	-E Z BE	-	14 51 14.6	1.0	1.78	4		

KRL	+E Z ST	PKP	14 51 04.5				16270 146.3	3.2 357.8
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STU	E Z BE	PKP	14 50 55.6	1.5	2.13	4	16300 146.5	4.6 356.9
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BUH	+E Z GT	PKP	14 50 57.-				16310 146.7	2.9 358.0
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JUL 06  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	16 23 10.9					
	E N BE	S	16 24 07.6					

JUL 07 USCGS  
 H= 04 43 15.4  
 LAT = 16.5 N  
 LONG= 147.3 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.7  
 MARIANA ISLANDS REGION

304

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	E Z HE	P	04 57 15.2				11520 103.6	43.2 332.4
	-E Z HE	PP	05 01 32.4					
BNS	E Z FS	PP	05 01 35.0	2.3	1.85	2	11600 104.3	39.4 335.3
	E Z FS	S	05 10 39.-					
FUR	-E Z SL	P	04 57 15.0	1.7	1.43	2	11640 104.7	43.5 331.3
	-E Z SL	-	05 01 03.0	1.6	1.08	1		
	-E Z SL	-	05 01 12.0	1.5	1.08	4		
	-E Z SL	PP	05 01 37.0	2.0	1.61	1		
	-E Z SL	APP	05 01 49.0	1.5	0.90	1		
	-E Z SL	XPP	05 01 52.0	2.0	1.91	5		
	Z SL	MAXIMUM	05 49 00.0	18.0	3.67			

JUL 07 BCIS  
 H= 17 38 20.4  
 LAT = 49.0 N  
 LONG = 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = BADEN-WUERTTEMBERG, EPICENTER BETWEEN LUDWIGSBURG AND HEILBRONN.  
 H= 17 38 21.2, 48 DEG 58.5 MIN N, 9 DEG 03 MIN E  
 DEPTH= 10 KM, ML=2.5, I=III-IV  
 THIS IS THE FIRST OF THREE SHOCKS WITH THE SAME HYPOCENTER, WHICH  
 INTERRUPT THE AFTERSHOCK SERIE IN BADEN-WUERTTEMBERG FROM THE  
 WESTERN SWABIAN JURA.

KRL	+E Z ST	PG	17 38 29.5	0.4	2.53	5	50 0.4	94.6 275.1
BUH	-I Z GT	PG	17 38 33.0	0.1	1.28		70 0.6	60.8 241.4
GRF	E Z BE	PG	17 38 49.1				180 1.6	243.9 62.3
	E N BE	SG	17 39 09.0					
FUR	-E Z SL	PG	17 38 52.0	1.5	1.00	3	190 1.7	299.5 117.9
	Z SL	MAXIMUM	17 39 51.0	1.5	1.00			

JUL 07 USCGS  
 H= 18 12 23.5  
 LAT = 40.6 N  
 LONG = 19.8 E  
 DEPTH= 2 KM  
 MAGNITUDE= 4.2  
 ALBANIA

JUL 07 BCIS  
 H= 18 12 23.0  
 LAT = 40.2 N  
 LONG = 19.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALBANIA

305

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
USCGS= FELT(V) IN TEPELENA AREA.								
FUR	-E Z SL	P	18 14 44.0	1.5	0.90	5	1080 9.7	137.9 323.8
	-E Z SL	PP	18 14 51.0	1.5	0.90	5		
	-E Z SL	PPP	18 14 58.0	1.5	0.90	3		
	-E Z SL	SSS	18 17 03.0	3.0	2.10	1		
	Z SL	MAXIMUM	18 18 54.0	4.0	2.53			
GRF	E Z BE	P	18 15 03.-				1210 10.9	143.0 329.1

JUL 07 BCIS  
 H= 18 28 18.6  
 LAT = 49.0 N  
 LONG = 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = BADEN-WUERTTEMBERG, EPICENTER BETWEEN LUDWIGSBURG AND HEILBRONN.  
 H= 18 28 18.1, 48 DEG 58.5 MIN N, 9 DEG 03 MIN E  
 DEPTH= 10 KM, ML= 2.4

KRL	-E Z ST	PG	18 28 26.4	0.5	2.68	6	50 0.4	94.6 275.1
BUH	-I Z GT	PG	18 28 30.1	0.1	1.50		70 0.6	60.8 241.4
TNS	E	P	18 28 50.1				150 1.3	162.4 342.9
GRF	E Z BE	PN	18 28 45.5				180 1.6	243.9 62.3
	E Z BE	PG	18 28 48.8					
	E N BE	SG	18 29 05.7					
FUR	Z SL	MAXIMUM	18 29 56.0	1.5	1.08		190 1.7	299.5 117.9

JUL 08 BCIS  
 H= 01 56 48.9  
 LAT = 49.0 N  
 LONG = 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = BADEN-WUERTTEMBERG, EPICENTER BETWEEN LUDWIGSBURG AND HEILBRONN.

BUH	+I Z GT	PG	01 57 00.7	0.1	0.64		70 0.6	60.8 241.4
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306

JUL 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 08 USCGS  
 H= 04 06 39.7  
 LAT = 2.1 N  
 LONG= 126.6 E  
 DEPTH= 16 KM  
 MAGNITUDE= 5.5  
 MOLUCCA PASSAGE

GRF	E Z BE	-	04 24 59.-				11620 104.5	68.9 322.7
FUR	+E Z SL	PP	04 25 10.0	2.0	1.99	6	11680 105.0	69.3 321.2

JUL 08 USCGS  
 H= 07 10 33.5  
 LAT = 34.1 S  
 LONG= 179.2 W  
 DEPTH=110 KM  
 MAGNITUDE= 4.5  
 SOUTH OF KERMADEC ISLANDS

GRF	-E Z BE	APKP	07 31 12.0	2.0	2.10	1	18090 162.7	30.1 336.9
FUR	+E Z SL	PKP2	07 31 17.0	1.8	1.86	3	18230 163.9	32.9 334.0
	+E Z SL	APKP	07 31 36.0	1.5	1.23	5		

JUL 08 USCGS  
 H= 08 09 17.5  
 LAT = 37.6 N  
 LONG= 20.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 IONIAN SEA

JUL 08 BCIS  
 H= 08 09 15.0  
 LAT = 37.6 N  
 LONG= 20.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 IONIAN SEA

USCGS= FELT ON ZANTE.

FUR	+I Z SL	P	08 12 14.0	1.8	1.90	3	1390 12.5	144.9 331.0
	-I Z SL	PP	08 12 24.0	1.8	2.30	4		
	+I Z SL	PPP	08 12 30.0	1.8	2.56	3		
	-I Z SL	XPP	08 12 38.0	1.8	2.49	3		
	-I Z SL	=	08 12 49.0	1.5	1.92	2		
	-I Z SL	S	08 14 26.0	1.8	2.40	3		
	+I Z SL	SS	08 14 44.0	1.3	2.60	4		
	-I Z SL	SSS	08 14 58.0	1.7	2.43	5		
	-I Z SL	=	08 15 12.0	1.5	1.83	5		
	Z SL	MAXIMUM	08 17 30.0	2.5	3.39			

307

JUL 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z BE	P	08 12 30.4				1530 13.8	148.3 334.6
BUH	+E Z GT	P	08 12 37.-	2.0	1.90		1570 14.1	137.3 325.5
KRL	+E Z ST	P	08 12 48.2	2.0	3.23	3	1590 14.3	138.6 326.8
TNS	I	P	08 12 56.2				1690 15.2	141.7 329.9
	I	PP	08 13 15.4					
	E	S	08 15 57.0					
BNS	+E Z FS	P	08 13 06.-			2	1820 16.3	140.1 329.3
	E Z FS	-	08 13 08.0	2.0	2.85			
	E FS	S	08 16 12.-					
	E Z FS	LR	08 18 41.-					
	Z FS	MAXIMUM	08 21 00.-			14.0		
HAM	-I Z ZX	P	08 13 20.0			3	1940 17.5	151.6 339.0
	+I Z ZX	-	08 13 50.3			9		

JUL 09 USCGS  
 H= 01 55 39.8  
 LAT = 51.6 N  
 LONG= 174.8 E  
 DEPTH= 22 KM  
 MAGNITUDE= 5.0  
 NEAR ISLANDS; ALEUTIAN ISLANDS

BNS	I Z FS	P	02 07 34.0	1.0	1.30		8600 77.3	7.9 352.0
	E Z FS	-	02 08 22.-					
GRF	+E Z BE	P	02 07 39.0	1.2	1.51	2	8690 78.2	10.4 349.2
BUH	+E Z GT	P	02 07 46.-	1.4	1.39		8840 79.5	8.5 351.0
FUR	-E Z SL	P	02 07 48.0	1.5	1.23	3	8860 79.7	10.4 348.9
	-E Z SL	PCP	02 07 52.0	1.5	1.23	2		
	+E Z SL	XPCP	02 08 08.0	1.5	1.00	6		

JUL 09 USCGS  
 H= 03 02 58.0  
 LAT = 34.2 S  
 LONG= 178.9 W  
 DEPTH= 37 KM  
 MAGNITUDE= 5.1  
 SOUTH OF KERMADEC ISLANDS

GRF	-E Z BE	PKP	03 23 45.6	1.8	2.18	3	18100 162.8	29.6 337.2
FUR	+I Z SL	PKP2	03 23 51.0	1.5	1.40	5	18250 164.1	32.4 334.3
	-I Z SL	APKP	03 24 03.0	1.8	1.83	2		
	-E Z SL	XPKP	03 24 09.0	1.8	1.76	2		
	-I Z SL	=	03 24 18.0	1.5	1.40	3		

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 09 USCGS  
 H= 05 29 46.9  
 LAT = 34.1 S  
 LONG= 178.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 SOUTH OF KERMADEC ISLANDS

GRF	-E Z BE	PKP	05 50 34.3				18100 162.8	29.3 337.5
FUR	+E Z SL	PKP2	05 50 38.0	1.5	1.11	2	18250 164.1	32.0 334.6

JUL 09 USCGS  
 H= 06 19 01.3  
 LAT = 44.3 N  
 LONG= 141.0 E  
 DEPTH=145 KM  
 MAGNITUDE= 4.5  
 HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	06 30 38.2	0.6	1.11	2	8520 76.6	34.5 329.2
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JUL 09  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	10 14 01.2					
	E N BE	SG	10 14 24.9					

JUL 09  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	11 02 48.0	1.5	0.90	1		
	-E Z SL	-	11 03 06.0	1.7	1.56	2		

JUL 09  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PN	12 42 16.1					
	+I Z BE	PG	12 42 18.0					
	E N BE	SG	12 42 43.3					

JUL 09  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	13 56 47.4			2		
	E Z X	SG	13 56 54.1					
	E X	-	13 56 54.4	1.2	2.39			

JUL 09  
 NO DETERMINATION OF EPICENTER

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	-	14 59 33.0	1.5	1.08	2		
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JUL 09 USCGS  
 H= 17 27 55.9  
 LAT = 40.6 N  
 LONG= 19.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 ALBANIA

JUL 09 BCIS  
 H= 17 27 53.0  
 LAT = 40.3 N  
 LONG= 19.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALBANIA

BCIS = FELT (IV-V) AT TEPELENA AREA.

FUR	Z SL	MAXIMUM	17 34 00.0	1.8	1.83		1080 9.7	138.3 324.2
GRF	E Z BE	P	17 30 52.-				1220 10.9	143.4 329.5

JUL 09 USCGS  
 H= 22 52 11.5  
 LAT = 8.8 S  
 LONG= 124.0 E  
 DEPTH= 34 KM  
 MAGNITUDE= 5.2  
 TIMOR

FUR	+E Z SL	APKP	23 10 55.0	1.3	1.85	1	12410 111.6	78.7 318.4
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JUL 10  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	10 53 25.0	1.8	1.60	7		
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JUL 10  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	14 20 31.1					
	E Z BE	PG	14 20 35.8	0.4	1.06	2		
	E N BE	SG	14 21 00.1					

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 10 BCIS  
 H= 16 23 10.0  
 LAT = 47.7 N  
 LONG= 6.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 FRANCE

BCIS = REGION OF CHAMPAGNIEY (HAUTE-SAONE), PROBABLY ARTIFICIAL.

BUH	-I N GT	PN	16 23 36.0	0.2	0.70		150 1.4	227.4 46.3
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JUL 10 USCGS  
 H= 19 13 20.9  
 LAT = 49.3 N  
 LONG= 155.3 E  
 DEPTH= 33 KM  
 MAGNITUDE= 5.2  
 KURIL ISLANDS

GRF	E Z BE	P	19 25 10.6				8530 76.7	23.2 337.0
FUR	+E Z SL	P	19 25 14.0	1.5	0.90	3	8680 78.1	23.1 336.3
	+E Z SL	-	19 25 19.0	1.5	1.08	2		
	+E Z SL	XP	19 25 26.0	1.5	1.08	2		

JUL 11 USCGS  
 H= 13 51 25.7  
 LAT = 4.2 S  
 LONG= 76.5 W  
 DEPTH=122 KM  
 MAGNITUDE= 4.6  
 NORTHERN PERU

GRF	E Z BE	P	14 04 36.9				10200 91.7	265.6 40.5
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JUL 11  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	17 19 11.0	1.6	1.00	2		
	Z SL	MAXIMUM	17 19 54.0	1.5	1.83			
GRF	E Z BE	PN	17 19 36.3	0.4	0.90	2		
	-I Z BE	PG	17 19 43.9	0.4	0.90	3		
	+E N BE	SG	17 20 05.6					

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 12 USCGS  
 H= 03 05 44.6  
 LAT = 44.8 N  
 LONG= 37.1 E  
 DEPTH= 39 KM  
 MAGNITUDE= 4.4  
 WESTERN CAUCASUS

JUL 12 BCIS  
 H= 03 05 40.0  
 LAT = 45.1 N  
 LONG= 37.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 WESTERN CAUCASUS

FUR	-E Z SL	P	03 09 52.0	1.5	0.70	1	2010 18.1	90.9 289.8
	-E Z SL	Xp	03 10 05.0	1.5	0.70	3		
	-E Z SL	PP	03 10 09.0	1.6	0.90	2		
	-E Z SL	PPP	03 10 17.0	1.5	0.70	3		
	+E Z SL	-	03 10 23.0	1.4	1.15	3		
BUH	E Z GT	P	03 10 17.-	1.0	0.80		2240 20.1	90.1 291.3

JUL 12 USCGS  
 H= 05 57 11.1  
 LAT = 6.0 S  
 LONG= 71.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 CHAGOS ARCHIPELAGO REGION

FUR	-I Z SL	P	06 08 52.0	1.5	1.43	9	8370 75.2	116.9 323.1
	-I Z SL	AP	06 09 01.0	1.8	1.86	2		
GRF	-E Z BE	P	06 08 56.5	1.2	1.80	2	8450 76.0	117.2 324.5
	-I Z BE	AP	06 09 06.4					

JUL 12 USCGS  
 H= 13 00 36.9  
 LAT = 46.5 N  
 LONG= 153.3 E  
 DEPTH= 12 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

BNS	+I Z FS	P	13 12 40.2	0.9	2.20	9	8750 78.6	23.2 338.9
	E Z FS	LR	13 39 00.-					
	FS	MAXIMUM	13 52 00.-	18.0				
GRF	+E Z HE	P	13 12 41.2	0.8	1.47	5	8760 78.7	25.7 336.0
FUR	-E Z SL	P	13 12 48.0	1.0	2.28	5	8910 80.1	25.6 335.3

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-I Z SL	PCP		13 12 52.0	1.5	1.40	2		
-I Z SL	APCP		13 13 01.0	1.5	1.54	3		
+I Z SL	XPCP		13 13 06.0	1.5	1.40	2		
Z SL	MAXIMUM		13 51 00.0	20.0	3.40			
Z SL	MAXIMUM		13 55 00.0	13.0	3.38			
STU	E Z BE	P	13 12 48.5	0.9	2.20	9	8910 80.1	24.3 336.8
BUH	E Z GT	P	13 12 50.-	0.7	0.70		8950 80.5	23.7 337.3

JUL 12 USCGS  
 H= 13 16 55.4  
 LAT = 26.1 S  
 LONG= 178.3 E  
 DEPTH=603 KM  
 MAGNITUDE= 5.0  
 SOUTH OF FIJI ISLANDS

BNS	E Z FS	PKP	13 35 57.-			2	17150 154.2	18.6 347.1
GRF	E Z HE	PKP	13 35 48.-				17170 154.4	27.7 340.4
	+I Z HE	-	13 36 07.2	1.2	1.89	4		
	E Z BE	-	13 36 16.-					
FUR	-E Z SL	PKP	13 35 42.0	1.5	0.85	4	17320 155.7	29.3 338.6
	+E Z SL	-	13 35 51.0	1.7	1.34	5		
	+E Z SL	PKP2	13 36 13.0	1.5	1.18	2		
	+E Z SL	-	13 36 25.0	1.5	1.18	2		

JUL 12 USCGS  
 H= 19 16 31.6  
 LAT = 39.7 N  
 LONG= 143.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	19 28 48.4	0.8	1.26	2	9070 81.5	35.2 330.9
	E Z HE	AP	19 28 57.6					
BNS	+E Z FS	P	19 28 50.-	2.5	1.85	2	9110 81.9	32.5 333.8
	E Z FS	PP	19 32 00.-					
	E FS	S	19 39 04.-					
	E Z SL	LR	19 56 00.-					
	Z SL	MAXIMUM	20 09 00.-	18.0				
FUR	-E Z SL	P	19 28 54.0	1.0	1.98	1	9200 82.8	35.1 330.0
	+E Z SL	-	19 28 56.0	2.0	1.87	2		
	+I Z SL	APCP	19 29 06.0	2.0	2.53	3		
	+E Z SL	XPCP	19 29 14.0	1.5	1.00	1		
	-I Z SL	-	19 29 23.0	1.5	1.36	3		
	+E Z SL	-	19 29 27.0	1.5	1.26	4		
	Z SL	MAXIMUM	20 09 20.0	15.0	4.10			
	Z SL	MAXIMUM	20 10 10.0	14.0	3.78			

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
STU	+E Z BE	P	19 28 56.0	1.2	1.62	2	9240 83.1	33.8 331.5
BUH	E Z GT	P	19 28 57.-	2.0	1.36		9280 83.5	33.1 332.0

JUL 13 USCGS  
 H= 22 18 57.7  
 LAT = 21.9 S  
 LONG= 170.1 E  
 DEPTH= 26 KM  
 MAGNITUDE= 4.6  
 LOYALTY ISLANDS REGION

GRF	E Z BE	PKP	22 38 41.2				16420 147.6	38.8 334.0
FUR	-E Z SL	PKP	22 38 46.0	1.5	0.90	2	16540 148.8	40.4 332.1
	+E Z SL	APKP	22 38 55.0	1.5	1.00	2		

JUL 13  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	22 22 17.0	1.5	0.90	1		
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JUL 14  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	03 13 02.0	1.5	0.85	1		
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JUL 14 USCGS  
 H= 11 33 22.6  
 LAT = 47.4 N  
 LONG= 152.8 E  
 DEPTH= 91 KM  
 MAGNITUDE= 4.2  
 KURIL ISLANDS

GRF	-E Z BE	P	11 45 10.9	0.4	1.11	4	8650 77.7	25.6 335.6
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JUL 14 USCGS  
 H= 15 55 55.3  
 LAT = 39.7 N  
 LONG= 143.6 E  
 DEPTH= 46 KM  
 MAGNITUDE= 4.7  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	E Z BE	P	16 08 11.2	1.2	1.51	1	9070 81.6	35.2 331.0
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314

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 15 USCGS

H= 04 11 49.2  
 LAT = 19.7 S  
 LONG= 178.4 W  
 DEPTH=646 KM  
 MAGNITUDE= 4.1  
 FIJI ISLANDS REGION

GRF	-E Z HE	PKP	04 30 28.0				16580 149.1	17.9 347.8
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JUL 15

NO DETERMINATION OF EPICENTER

GRF	-E Z HE	PG	15 11 47.2	0.6	1.24	3		
	E N HE	SG	15 12 08.2					

JUL 16 USCGS

H= 05 22 13.1  
 LAT = 17.6 S  
 LONG= 66.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 MASCARENE ISLANDS REGION

FUR	-E Z SL	P	05 34 31.0	1.5	0.90	2	9090 81.8	127.8 326.3
	-E Z SL	PCP	05 34 36.0	2.0	1.61	2		
	-E Z SL	XPCP	05 34 47.0	1.8	1.60	4		
	-E Z SL	-	05 34 57.0	2.0	1.81	4		

GRF	E Z HE	P	05 34 45.-				9200 82.8	127.9 327.5
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JUL 16 USCGS

H= 08 16 53.3  
 LAT = 52.2 N  
 LONG= 159.0 E  
 DEPTH= 69 KM  
 MAGNITUDE= 5.8  
 OFF EAST COAST OF KAMCHATKA

HLG	-I Z X	P	08 28 08.-	1.0	2.85	5	7930 71.3	18.3 342.5
	E N X	P	08 28 08.1	1.0	2.62	2		
	E E X	-	08 28 16.1	1.0	2.52	2		

HAM	E Z SX	P	08 28 10.0			2	7960 71.6	19.5 341.1
	+I Z SX	AP	08 28 27.0			4		
	-E N WI	S	08 37 26.5			2		

BNS	+I Z FS	P	08 28 25.9	1.4	2.59	9	8280 74.5	17.6 341.9
	E E FS	S	08 37 58.-					
	E FS	LR	08 53 00.-					

GRF	-I Z HE	P	08 28 28.4	0.8	1.65	3	8320 74.9	19.9 339.0
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315

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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HEI	E Z ST	P	08 28 32.2	1.2	2.97	2	8410 75.7	18.4 340.5
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KRL	+E Z ST	P	08 28 35.8	1.5	2.85	3	8460 76.1	18.2 340.5
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STU	E Z BE	P	08 28 35.5	1.0	2.50	9	8470 76.2	18.6 339.9
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FUR	-I Z SL	P	08 28 37.0	1.5	2.11	9	8480 76.3	19.8 338.4
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	+I Z SL	AP	08 28 45.0	1.7	2.13	2		
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	+I Z SL	PCP	08 28 53.0	1.5	1.65	3		
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	-I Z SL	XPCP	08 29 02.0	1.8	2.05	1		
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	Z SL	MAXIMUM	09 01 20.0	25.0	3.63			
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	Z SL	MAXIMUM	09 12 00.0	14.0	3.44			
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BUH	+I Z GT	P	08 28 37.7	1.4	2.36		8500 76.5	18.0 340.5
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FEL	+E Z ST	P	08 28 41.1	1.3	2.58	9	8590 77.3	17.8 340.4
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JUL 16 USCGS

H= 12 39 26.2  
 LAT = 4.7 S  
 LONG= 153.1 E  
 DEPTH= 85 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 NEW IRELAND REGION

FUR	+E Z SL	PKP	12 58 21.0	1.5	1.11	8	13990 125.8	49.4 329.3
	-E Z SL	-	12 58 36.0	1.5	1.18	9		
	+E Z SL	-	12 58 57.0	1.8	1.60	7		
	-E Z SL	PP	13 00 17.0	1.5	1.08	2		

BNS	E Z FS	PKP	12 58 20.-				13990 125.8	43.5 334.1
	E Z FS	-	12 58 27.-					

BUH	E Z GT	PKP	12 58 22.-	1.5	1.10		14120 127.0	45.8 331.5
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JUL 16

NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 46 08.5	0.6	1.24	4		
	E Z BE	-	12 46 16.6					
	E N BE	SG	12 46 35.3					

JUL 16 USCGS

H= 14 55 00.0  
 LAT = 37.1 N  
 LONG= 116.1 W  
 DEPTH= 0 KM  
 MAGNITUDE= 5.6  
 SOUTHERN NEVADA

USCGS= 37 DEG 08 MIN 22 SEC N, 116 DEG 05 MIN 15 SEC W  
 NEVADA TEST SITE #HUTCH# (AEC).

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
BNS	+I Z FS	P	15	07	07.0	1.2	1.78	2	8800	79.1	317.1	32.6
	E Z FS	-	15	07	52.-							
BUH	E Z GT	P	15	07	19.0	1.0	1.00		9040	81.3	318.1	33.6
GRF	-E Z BE	P	15	07	22.1	1.2	1.94	5	9100	81.8	320.0	31.5
FUR	+I Z SL	P	15	07	28.0	1.5	1.36	5	9230	83.0	320.2	32.4

JUL 16  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15	56	18.0	1.5	0.90	5				
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JUL 16  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	18	08	03.0	1.5	0.90	3				
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JUL 16 USCGS  
H= 21 59 14.9  
LAT = 32.2 S  
LONG= 13.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
SOUTH ATLANTIC RIDGE

FUR	-E Z SL	P	22	11	44.0	1.5	0.90	3	9230	83.0	200.7	16.2
	+E Z SL	PCP	22	11	50.0	1.5	1.00	6				
GRF	E Z BE	P	22	11	51.6	1.2	1.58	3	9380	84.4	200.6	15.6

JUL 17 USCGS  
H= 04 03 36.4  
LAT = 51.4 N  
LONG= 179.9 W  
DEPTH= 34 KM  
MAGNITUDE= 4.9  
ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	-E Z BE	P	04	15	38.6	0.8	1.43	2	8770	78.8	7.0	352.7
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JUL 17 USCGS  
H= 09 18 17.8  
LAT = 20.9 S  
LONG= 178.2 W  
DEPTH=190 KM  
MAGNITUDE= 4.5  
FIJI ISLANDS REGION

JUL 1969

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	E Z BE	PKP	09	37	42.6				16720	150.4	18.0	347.6

JUL 17 NFB  
H= 14 45 00.4  
LAT = 51.6 N  
LONG= 9.7 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GERMANY

NFB = QUARRYBLAST AT ADELEHSEN, SHOTPOINT NO. 6  
H= 14 45 00.36, 51 DEG 36 MIN 30 SEC N, 9 DEG 44 MIN 48 SEC E  
HEIGHT=350 METERS, CHARGE= 6.4 TONS.

BNS	E Z X	PG	14	45	33.-			2	190	1.7	67.2	249.2
	E N X	SG	14	45	58.-							
	E X	-	14	46	02.5							
GRF	E Z BE	PG	14	45	42.4				240	2.1	334.6	153.4
	E N BE	SG	14	46	08.8							

JUL 17  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	19	13	56.0	1.5	0.90	3				
	-E Z SL	-	19	20	10.0	1.5	1.00	6				

JUL 18 USCGS  
H= 00 00 47.4  
LAT = 29.7 N  
LONG= 42.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
NORTH ATLANTIC RIDGE

BNS	E Z FS	P	00	08	44.-				4750	42.7	259.8	45.7
	E Z FS	-	00	08	57.-							
FUR	-E Z SL	P	00	09	02.0	1.2	1.84	2	5010	45.0	266.1	50.2
	-E Z SL	-	00	09	06.0	1.2	1.84	5				
	+E Z SL	AP	00	09	09.0	1.5	1.00	2				
	+E Z SL	XP	00	09	14.0	1.5	1.00	2				
	+E Z SL	APP	00	10	56.0	1.8	1.45	1				
GRF	-E Z BE	P	00	09	02.8				5010	45.1	264.5	48.0

JUL 18  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	01	11	09.5							
	E N BE	SG	01	11	27.2							



STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 18 USCGS  
 H= 05 24 48.0  
 LAT = 34.3 N  
 LONG= 119.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.2  
 NORTHEASTERN CHINA

USCGS= REPORTED HEAVY DAMAGE IN CHINA, FELT AT OITA, KYUSYU.  
 MAG. 7 (PAS), 7.0 (BRK).

HAM	E Z SX	P	05 35 59.-			3	7810 70.3	52.0 323.2
	+E E WI	S	05 45 31.-			9		
HLG	-I Z X	P	05 36 07.-	1.0	2.96	7	7870 70.8	50.8 324.6
	I N X	P	05 36 07.1	1.0	2.67	2		
	-I E X	-	05 36 14.1	1.4	2.77	2		
	E X	LO	06 03 00.-			20.0		
	E N X	LO	06 03 00.-			20.0		
	Z X	L	06 04 00.-			5.9	3.63	1
HOF	/ WI	MAXIMUM	06 04 30.0	40.0	6.94		7920 71.3	52.4 319.8
GRF	+I Z BE	P	05 36 10.4	1.0	1.91	9	8000 72.0	51.8 319.6
	E Z BE	PP	05 38 57.-					
	E Z BE	-	05 39 51.-					
	E Z BE	-	05 41 46.-					
	E Z BE	L	06 02 45.-					
FUR	-I Z SL	P	05 36 15.0	1.2	2.31	9	8110 72.9	51.5 318.3
	+I Z SL	AP	05 36 25.0	2.0	2.70	2		
	+I Z SL	PP	05 38 52.0	1.5	1.92	9		
	-E Z SL	S	05 45 33.0	2.0	2.09	1		
	+E Z SL	XS	05 45 52.0	2.4	2.31	2		
	Z SL	MAXIMUM	06 13 00.0	16.0	5.12			
TNS	E	P	05 36 14.8				8120 73.0	50.2 321.2
BNS	+I Z FS	P	05 36 17.0				8140 73.2	49.5 322.3
	I Z FS	-	05 36 21.8	1.5	2.81	9		
	I FS	-	05 36 46.5					
	E Z SL	PP	05 39 04.-					
	E Z SL	S	05 45 46.-					
	E SL	SS	05 51 14.-					
	E Z SL	LR	05 59 50.-	60.0				
	N SL	MAXIMUM	06 08 00.-	15.0	5.52			
	SL	MAXIMUM	06 11 00.-	16.0	5.35			
HEI	+E Z ST	P	05 36 14.2	1.2	3.17	5	8160 73.4	50.2 320.4
STU	1E Z BE	P	05 36 19.5	1.0	2.47	3	8180 73.6	50.3 319.7
	1E N BE	S	05 46 00.0	28.0	4.39	9		
KHL	+E Z ST	P	05 36 21.6	3.0	2.91	6	8210 73.8	49.9 320.2
BUH	+E Z GT	P	05 36 22.8	1.0	1.17		8240 74.1	49.7 320.0

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 18 USCGS  
 H= 13 10 31.9  
 LAT = 43.3 N  
 LONG= 97.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 MONGOLIA

GRF	E Z BE	P	13 20 11.5				6270 56.3	61.0 308.9
FUR	+E Z SL	P	13 20 18.0	1.5	0.90	2	6340 57.1	60.1 307.3

JUL 18 USCGS  
 H= 13 33 48.4  
 LAT = 38.1 N  
 LONG= 119.4 E  
 DEPTH= 32 KM  
 MAGNITUDE= 5.0  
 NORTHEASTERN CHINA

GRF	+E Z BE	P	13 45 11.7	0.8	1.25	1	8020 72.1	51.9 319.6
	-E Z BE	-	13 45 20.2	0.9	1.41	2		
	+E Z BE	PCP	13 45 34.9	1.2	1.64	2		
FUR	-E Z SL	P	13 45 17.0	1.5	0.70	3	8120 73.0	51.6 318.3
	+E Z SL	AP	13 45 24.0	1.5	0.90	1		
	-E Z SL	XP	13 45 30.0	1.5	0.90	1		
	-E Z SL	XPCP	13 45 44.0	1.5	1.00	2		
	E SL	MAXIMUM	14 44 00.0	23.0	3.46			

JUL 18 NFB  
 H= 14 05 00.6  
 LAT = 47.6 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT ESCHENLOHE, BAVARIA. SHOTPOINT NO. 1  
 H= 14 05 00.59, 47 DEG 37 MIN 57 SEC N, 11 DEG 08 MIN 48 SEC E  
 HEIGHT= 700 METERS, CHARGE= 12.8 TONS.

FUR	-E Z SL	PG	14 05 14.0	1.0	1.88	4	60 0.5	189.4 9.3
	+I Z SL	PR	14 05 19.0	1.6	1.54	9		
	+I Z SL	PN	14 05 21.0	1.2	2.54	9		
	Z SL	MAXIMUM	14 06 00.0	1.5	2.22			
GRF	+I Z BE	PN	14 05 35.2	0.4	1.06	3	230 2.1	181.3 1.2
	E Z BE	PG	14 05 41.0					
	E N BE	SG	14 06 07.9					

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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JUL 18 NFB  
 H= 16 05 03.0  
 LAT = 51.2 N  
 LONG= 9.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT BRANSRODE, SHOTPOINT NO. 17  
 H= 16 05 02.97, 51 DEG 13 MIN 56 SEC N, 9 DEG 51 MIN 35 SEC E  
 HEIGHT= 69 METERS, CHARGE= 22 TONS.

TNS	E	P	16 05 31.1				150 1.4	41.0 222.1
	I	S	16 05 50.7					
BNS	E Z X	PG	16 05 35.2				190 1.7	79.9 262.0
	E E X	SG	16 06 00.0	0.8	2.49			
	E	X	16 06 02.0	0.8	2.38			
GRF	+E Z BE	PG	16 05 35.8	0.6	1.05	2	200 1.8	331.2 150.2
	+E N BE	SG	16 06 00.1					
FUR	+E Z SL	PR	16 06 00.0	1.6	1.00	3	360 3.2	343.9 162.8
	+E Z SL	-	16 06 08.0	1.3	1.60	2		
	+E Z SL	PG	16 06 18.0	1.5	0.70	1		
	+E Z SL	SR	16 06 48.0	1.6	0.90	1		
	+E Z SL	SG	16 06 52.0	1.6	1.00	1		
	Z SL	MAXIMUM	16 08 10.0	1.8	1.76			

JUL 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 28 11.0	1.6	0.90	4		
	+E Z SL	-	18 28 17.0	1.5	1.11	2		

JUL 18  
 NO DETERMINATION OF EPICENTER

GRF	+E Z HE	P	21 04 01.8	0.8	1.25	3		
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JUL 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	21 06 23.0	1.5	0.48	1		
	+E Z SL	-	21 06 41.0	1.5	0.70	2		
	-E Z SL	-	21 07 05.0	1.8	1.36	2		

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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JUL 18 USCGS  
 H= 23 17 10.6  
 LAT = 14.2 S  
 LONG= 63.3 W  
 DEPTH= 19 KM  
 MAGNITUDE= 5.6  
 BOLIVIA

FUR	+E Z SL	P	23 30 27.0	1.8	1.76	9	10400 93.6	246.6 40.3
	+E Z SL	AOCP	23 30 34.0	1.6	1.30	2		
	-E Z SL	PP	23 34 10.0	1.7	1.49	2		
	-E Z SL	XPP	23 34 27.0	2.1	1.83	4		
GRF	E Z HE	P	23 30 30.4				10470 94.1	246.7 38.9

JUL 19 USCGS  
 H= 01 52 09.4  
 LAT = 38.9 N  
 LONG= 119.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NORTHEASTERN CHINA

GRF	+E Z HE	P	02 03 29.6	1.0	1.56	4	7950 71.5	51.5 319.4
FUR	-E Z SL	P	02 03 35.0	1.8	1.53	3	8050 72.4	51.1 318.1
	-E Z SL	APCP	02 03 50.0	1.8	1.45	2		

JUL 19 USCGS  
 H= 04 35 27.0  
 LAT = 20.6 S  
 LONG= 168.6 E  
 DEPTH= 17 KM  
 NO MAGNITUDE COMPUTED  
 LOYALTY ISLANDS

FUR	+E Z SL	PKP	04 55 06.0	1.5	0.90	5	16340 147.0	41.5 331.7
	-E Z SL	APKP	04 55 17.0	1.6	1.00	2		

JUL 19 USCGS  
 H= 04 54 54.1  
 LAT = 17.3 S  
 LONG= 72.5 W  
 DEPTH= 54 KM  
 MAGNITUDE= 5.9  
 NEAR COAST OF PERU

BUH	+E Z GT	P	05 08 19.5	1.6	1.74	7	10770 96.8	251.8 41.2
BNS	+I Z FS	P	05 08 20.2	1.6	2.23	2	10780 96.9	251.3 38.8
	E Z FS	PP	05 12 13.5					

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	E FS	S	05	18	57.-							
	E Z SL	-	05	21	05.-							
	E Z SL	LR	05	40	50.-	50.0						
	SL	MAXIMUM	05	50	30.-	20.0						
KRL	+E Z ST	P	05	08	21.8	2.0	2.70	4	10790	97.0	252.0	40.9
HEI	+E Z ST	P	05	08	21.8	2.0	2.89	9	10830	97.4	252.2	40.6
STU	+E Z BE	P	05	08	22.3	1.5	2.44	9	10840	97.5	252.5	41.3
HLG	E Z X	P	05	08	42.3	1.4	2.41	2	10930	98.3	252.2	35.9
FUR	-I Z SL	P	05	08	28.0	1.5	1.83	9	10970	98.6	253.9	42.3
	-E Z SL	APCP	05	08	35.0	1.6	1.43	1				
	+I Z SL	XP	05	08	41.0	1.4	1.77	7				
	+I Z SL	-	05	08	45.0	1.5	1.89	5				
	+I Z SL	PP	05	12	24.0	1.8	2.40	6				
	+E Z SL	APP	05	12	35.0	1.6	1.61	7				
	-E Z SL	XPP	05	12	39.0	1.6	1.71	2				
	+E Z SL	PPP	05	14	37.0	1.7	1.56	3				
	+E Z SL	SP	05	21	24.0	4.5	2.32	5				
	Z SL	MAXIMUM	05	47	00.0	27.0	3.72					
GRF	+E Z BE	P	05	08	30.2	1.0	1.65	5	11010	99.0	254.1	40.8
	+E Z BE	PP	05	12	29.3	1.6	2.33	6				
HAM	E Z SX	P	05	08	31.-			3	11040	99.3	253.7	36.9

JUL 19 USCGS  
 H= 05 11 43.4  
 LAT = 21.5 S  
 LONG= 179.5 W  
 DEPTH=659 KM  
 MAGNITUDE= 5.0  
 FIJI ISLANDS REGION

BNS	+I Z FS	PKP	05	30	23.2	0.8	2.08	2	16690	150.1	12.6	351.5
	E Z FS	-	05	30	32.5							
GRF	+E Z BE	PKP	05	30	24.5	0.8	1.47	4	16750	150.6	20.8	345.7
	+E Z BE	-	05	30	34.2							
FUR	+I Z SL	PKP	05	30	27.0	1.6	1.30	9	16900	152.0	21.9	344.5
	+I Z SL	PKP2	05	30	41.0	1.5	1.26	9				
BUH	+E Z GT	PKP	05	30	27.8	1.0	0.90		16920	152.2	15.7	348.9

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	JUL 19	USCGS										
	H= 17 56	24.9										
	LAT =	27.5 S										
	LONG=	176.6 W										
	DEPTH=	33 KM (NORMAL)										
	MAGNITUDE=	5.0										
	KERMADEC ISLANDS REGION											
GRF	-E Z BE	PKP	18	16	48.2	1.4	1.70	1	17460	157.0	18.0	347.0
FUR	+E Z SL	PKP2	18	16	54.0	1.6	1.20	2	17620	158.4	19.3	345.6
	-E Z SL	APKP	18	17	04.0	1.5	1.00	1				
	-E Z SL	XPKP	18	17	11.0	1.5	0.90	5				

JUL 20 USCGS  
 H= 04 34 14.9  
 LAT = 39.8 N  
 LONG= 77.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 SOUTHERN SINKIANG PROV., CHINA

GRF	-E Z BE	P	04	42	44.8	1.0	1.38	3	5210	46.9	75.6	305.2
	JUL 20	USCGS										
	H= 07 07	51.5										
	LAT =	36.5 N										
	LONG=	71.1 E										
	DEPTH=	220 KM										
	MAGNITUDE=	4.9										
	AFGHANISTAN-USSR BORDER REGION											
GRF	-E Z BE	P	07	15	43.9	1.4	1.78	2	4950	44.5	83.7	306.8
FUR	+E Z SL	P	07	15	44.0	1.3	1.58	7	4970	44.7	82.2	304.6

JUL 20  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	09	59	02.8							
	E N BE	-	10	00	26.7							
FUR	E E SL	-	10	00	27.0	1.0	1.98	1				

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 20 USCGS

H= 10 46 11.7  
 LAT = 7.2 N  
 LONG= 34.3 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 CENTRAL MID-ATLANTIC RIDGE

FUR	+E Z SL	P	10 55 50.0	1.5	0.90	3	6230 56.1	238.6 35.2
	-E Z SL	XP	10 56 02.0	1.5	1.11	3		
	+E Z SL	-	10 56 05.0	1.5	1.00	3		
	+E Z SL	-	10 56 15.0	1.5	1.11	8		

GRF	E Z BE	P	10 55 55.2				6320 56.8	237.7 33.6
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JUL 20 USCGS

H= 15 51 54.1  
 LAT = 37.9 N  
 LONG= 20.2 E  
 DEPTH= 19 KM  
 MAGNITUDE= 4.7  
 IONIAN SEA

JUL 20 BCIS

H= 15 51 57.0  
 LAT = 38.0 N  
 LONG= 20.5 E  
 DEPTH= 55 KM  
 NO MAGNITUDE COMPUTED  
 IONIAN SEA

FUR	+E Z SL	P	15 54 51.0	1.8	1.45	1	1350 12.1	144.2 330.3
	-E Z SL	PP	15 55 02.0	1.7	1.43	3		
	+E Z SL	-	15 55 17.0	1.5	0.90	2		
	-E Z SL	-	15 55 26.0	1.3	1.68	2		
	-E Z SL	S	15 57 07.0	2.0	1.61	3		
	+E Z SL	SS	15 57 29.0	1.5	1.08	2		
	-I Z SL	SSS	15 57 36.0	1.5	1.23	2		
	Z SL	MAXIMUM	16 00 10.0	1.5	1.34			

GRF	E Z BE	P	15 55 17.4				1490 13.4	147.8 334.0
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JUL 20 USCGS

H= 19 49 42.0  
 LAT = 19.2 S  
 LONG= 176.4 W  
 DEPTH= 20 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.2  
 FIJI ISLANDS REGION

BNS	E Z FS	PKP	20 09 29.3				16480 148.2	6.5 355.7
	I Z FS	-	20 09 33.0	2.0	2.00	2		

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	PKP	20 09 32.5				16570 149.0	14.1 350.4
BUH	-E Z GT	PKP	20 09 39.-	1.0	1.17	3	16720 150.4	8.9 353.8
FUR	+E Z SL	PKP	20 09 33.0	1.6	1.08	6	16730 150.5	14.9 349.5
	+E Z SL	-	20 09 40.0	1.8	1.93	3		
	+I Z SL	PKP2	20 09 45.0	2.0	2.09	3		
	-I Z SL	-	20 09 51.0	1.5	1.51	3		
	-I Z SL	APKP	20 09 55.0	1.5	1.40	3		
	+I Z SL	-	20 10 11.0	2.0	1.95	2		
	-E Z SL	-	20 10 54.0	1.8	1.76	3		
	Z SL	MAXIMUM	21 01 30.0	60.0	2.99			
	Z SL	MAXIMUM	21 22 00.0	20.0	2.80			

JUL 20 USCGS

H= 20 04 46.7  
 LAT = 15.6 S  
 LONG= 167.8 E  
 DEPTH= 196 KM  
 MAGNITUDE= 5.3  
 NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP	20 23 49.5				15680 141.0	37.4 335.8
	E Z BE	PP	20 26 57.1					
	E Z BE	APP	20 27 28.0					
FUR	-I Z SL	PKP	20 23 54.0	1.3	2.07	2	15810 142.2	38.7 334.3
	-E Z SL	-	20 24 26.0	1.5	1.00	2		
	-E Z SL	APKP	20 24 46.0	1.5	1.00	2		
	-E Z SL	-	20 24 57.0	1.5	1.11	2		
	-I Z SL	-	20 25 54.0	1.5	1.23	2		
	-E Z SL	-	20 27 02.0	1.8	1.76	2		
	-E Z SL	PP	20 27 14.0	1.2	2.09	2		
	-E Z SL	APP	20 27 57.0	1.8	1.65	4		

BUH	+E Z GT	PKP	20 23 55.5				15900 143.0	33.9 337.4
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JUL 20 USCGS

H= 22 37 29.6  
 LAT = 28.2 N  
 LONG= 57.3 E  
 DEPTH= 57 KM  
 MAGNITUDE= 4.9  
 SOUTHERN IRAN

JUL 20 BCIS

H= 22 37 34.0  
 LAT = 28.4 N  
 LONG= 57.6 E  
 DEPTH= 100 KM  
 NO MAGNITUDE COMPUTED  
 SOUTHERN IRAN

FUR	+E Z SL	P	22 45 08.0	1.5	0.48	2	4520 40.6	102.5 312.2
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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E Z SL	AP	22 45 18.0	1.4	1.15	3		
	-E Z SL	-	22 46 04.0	1.6	0.78	3		
GRF	E Z BE	P	22 45 18.7				4560 41.0	104.1 314.5

JUL 20 USCGS  
 H= 23 54 31.2  
 LAT = 38.4 N  
 LONG= 119.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 NORTHEASTERN CHINA

GRF	E Z BE	P	00 05 52.8				7990 71.8	51.9 319.5
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JUL 21 USCGS  
 H= 02 22 06.4  
 LAT = 19.2 S  
 LONG= 176.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	02 41 54.5				16570 149.0	14.3 350.2
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FUR	-E Z SL	PKP2	02 42 05.0	1.6	1.15	7	16730 150.5	15.0 349.4
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JUL 21 USCGS  
 H= 07 01 07.9  
 LAT = 17.6 S  
 LONG= 173.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 TONGA ISLANDS

GRF	-E Z BE	PKP	07 20 53.8	1.2	1.51	2	16440 147.8	7.7 354.8
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FUR	-E Z SL	PKP	07 20 55.0	1.8	1.60	7	16600 149.3	8.1 354.3
	-E Z SL	-	07 21 02.0	1.7	1.49	2		
	-I Z SL	PKP2	07 21 10.0	1.8	1.76	3		
	+I Z SL	APKP	07 21 20.0	1.6	1.30	3		
	+E Z SL	XPKP	07 21 26.0	2.0	1.69	3		

JUL 21 USCGS  
 H= 07 10 18.3  
 LAT = 21.0 N  
 LONG= 45.7 W  
 DEPTH= 22 KM  
 MAGNITUDE= 4.7  
 NORTH ATLANTIC RIDGE

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z X	P	07 19 18.8				2 5640 50.7	254.2 40.6
	E Z X	-	07 19 25.0					
	E	X	07 21 03.-					

FUR	-E Z SL	P	07 19 34.0	1.6	1.15	4	5860 52.7	259.9 44.9
	+E Z SL	AP	07 19 41.0	1.5	1.11	8		
	-E Z SL	-	07 20 00.0	1.5	1.11	4		

GRF	E Z BE	P	07 19 35.2				5890 53.0	258.8 43.0
	E Z BE	AP	07 19 41.7					

JUL 21  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	16 00 37.0	1.5	0.90	2		
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JUL 21 USCGS  
 H= 17 38 28.8  
 LAT = 35.2 N  
 LONG= 35.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NORTH ATLANTIC RIDGE

JUL 21 BCIS  
 H= 17 38 20.0  
 LAT = 35.0 N  
 LONG= 36.5 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC RIDGE

BNS	E Z X	P	17 45 18.-				3850 34.6	259.9 49.5
	E Z X	S	17 50 56.-					
	E	X	17 54 40.-					

FUR	+E Z SL	P	17 45 39.0	2.0	1.69	2	4110 37.0	267.3 54.8
	-E Z SL	Xp	17 45 49.0	1.5	0.85	4		
	-E Z SL	PP	17 47 02.0	1.5	0.90	3		
	-E Z SL	Xpp	17 47 15.0	1.5	1.00	1		
	+E Z SL	-	17 47 33.0	1.5	0.90	5		

JUL 21 USCGS  
 H= 19 44 13.5  
 LAT = 39.4 N  
 LONG= 143.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	19 56 30.8	0.9	1.51	4	9080 81.6	35.7 330.7
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BNS	E Z X	P	19 56 32.0				9120 82.0	33.0 333.6
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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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FUR	+I Z SL	P	19 56 37.0	1.5	1.08	1	9210	82.9	35.6 329.8
	-E Z SL	XP	19 56 46.0	1.5	1.08	2			

JUL 21 USCGS  
 H= 22 06 56.9  
 LAT = 2.9 N  
 LONG= 124.7 E  
 DEPTH=220 KM  
 MAGNITUDE= 5.6  
 CELEBES SEA

GRF	E Z BE	PP	22 24 51.6	1.6	2.16	4	11430	102.8	69.9 322.4
FUR	+E Z SL	PP	22 24 51.0	1.8	2.15	5	11480	103.2	70.2 320.9
	-E Z SL	APP	22 25 29.0	1.8	1.71	2			
	-E Z SL	XPP	22 25 56.0	1.5	1.18	2			
	+E Z SL	SKKKS	22 31 40.0	1.8	1.60	7			
	+E Z SL	-	22 31 46.0	1.8	1.76	9			

JUL 22 USCGS  
 H= 10 52 40.8  
 LAT = 18.3 S  
 LONG= 177.7 W  
 DEPTH=576 KM  
 MAGNITUDE= 4.5  
 FIJI ISLANDS REGION

GRF	+I Z BE	PKP	11 11 22.4	0.6	1.20	3	16440	147.8	16.1 349.0
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JUL 22 USCGS  
 H= 13 48 36.5  
 LAT = 18.1 S  
 LONG= 172.5 W  
 DEPTH= 30 KM  
 MAGNITUDE= 5.4  
 TONGA ISLANDS REGION

BNS	+I Z FS	PKP	14 08 18.3	1.2	1.78	3	16370	147.2	359.4 0.4
	E Z FS	-	14 08 36.5						
GRF	+E Z BE	PKP	14 08 21.6	1.0	1.48	2	16500	148.4	6.7 355.4
BUH	E Z GT	PKP	14 08 19.5				16630	149.5	1.4 359.1
	E Z GT	PKP	14 08 24.5						

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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JUL 22 USCGS  
 H= 17 14 13.0  
 LAT = 11.8 S  
 LONG= 166.5 E  
 DEPTH=144 KM  
 MAGNITUDE= 5.4  
 SANTA CRUZ ISLANDS

GRF	E Z BE	PKP	17 33 20.8				15250	137.1	37.0 336.5
BNS	E Z FS	PKP	17 33 20.5	1.2	1.48	2	15290	137.5	30.8 340.7
	E Z FS	-	17 36 04.4						
	E Z FS	-	17 36 44.3						
FUR	-E Z SL	PKP	17 33 22.0	1.6	1.30	5	15380	138.3	38.1 335.0
	-I Z SL	PKP	17 36 13.0	1.8	1.71	2			
	+E Z SL	APP	17 36 47.0	1.8	1.71	3			
BUH	+E Z GT	PKP	17 33 23.-	1.5	1.14	2	15460	139.1	33.6 338.0

JUL 22  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	17 57 09.0	1.5	1.00	1			
	-E Z SL	-	17 57 22.0	1.3	1.70	5			

JUL 22 USCGS  
 H= 19 55 37.0  
 LAT = 26.1 S  
 LONG= 177.5 W  
 DEPTH=180 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.1  
 SOUTH OF FIJI ISLANDS

GRF	E Z BE	PKP	20 15 36.3				17290	155.5	19.2 346.3
FUR	+E Z SL	PKP	20 15 11.0	1.5	0.90	5	17450	156.9	20.5 344.9
	-E Z SL	PKP2	20 15 44.0	1.5	1.00	2			

JUL 22  
 NO DETERMINATION OF EPICENTER

GRF	-E Z BE	P	20 04 28.4	1.6	1.86	1			
FUR	+E Z SL	P	20 04 30.0	1.5	0.90	5			
	+E Z SL	-	20 04 39.0	1.5	1.08	1			



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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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JUL 22 USCGS

H= 23 22 26.7  
 LAT = 18.9 S  
 LONG= 178.7 W  
 DEPTH=562 KM  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

BNS	I Z FS	PKP	23 41 05.0				16420 147.7	10.4 353.1
GRF	E Z BE	PKP	23 41 07.1				16490 148.3	18.0 347.7
	E Z BE	-	23 41 15.6					
FUR	+E Z SL	PKP	23 41 10.0	1.5	0.90	5	16650 149.7	18.9 346.7
	-E Z SL	PKP2	23 41 21.0	1.5	1.00	3		

JUL 23 USCGS

H= 00 05 23.3  
 LAT = 19.2 S  
 LONG= 169.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 NEW HEBRIDES ISLANDS

GRF	+E Z BE	PKP	00 24 58.7	1.6	1.86	2	16130 145.0	37.1 335.5
BNS	E Z FS	PKP	00 24 53.5				16170 145.4	29.9 340.5
	E Z FS	-	00 25 05.-					
FUR	-E Z SL	PKP	00 25 02.0	1.0	1.88	2	16260 146.2	38.6 333.8
	-E Z SL	APKP	00 25 13.0	1.5	0.90	3		
	-E Z SL	XPkP	00 25 19.0	1.5	0.90	5		

JUL 23 USCGS

H= 02 46 58.1  
 LAT = 49.9 N  
 LONG= 78.3 E  
 DEPTH= 0 KM (SEOPHYSICIST)  
 MAGNITUDE= 5.5  
 EASTERN KAZAKH SSR

JUL 23 BCIS

H= 02 47 00.0  
 LAT = 50.0 N  
 LONG= 78.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

GRF	+I Z BE	P	02 54 52.6	0.9	1.61	6	4670 42.0	63.0 296.6
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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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FUR	-I Z SL	P	02 54 58.0	1.3	2.18	9	4740 42.7	61.5 294.5
	-E Z SL	PP	02 56 36.0	2.0	1.61	5		
	-E Z SL	PCP	02 56 41.0	1.8	1.60	2		
STU	+I Z BE	P	02 55 04.7	0.5	2.18	9	4850 43.6	61.3 296.3
BNS	+E Z X	P	02 55 05.8	0.9	1.60	2	4860 43.7	62.4 300.0
	E Z X	-	02 56 52.-					
BUH	+E Z GT	P	02 55 10.0	0.5	0.50		4910 44.2	60.8 296.6

JUL 23 USCGS

H= 08 01 50.6  
 LAT = 23.7 S  
 LONG= 179.2 E  
 DEPTH=545 KM  
 MAGNITUDE= 5.0  
 SOUTH OF FIJI ISLANDS

BNS	E Z X	PKP	08 20 38.0				16910 152.1	15.7 349.2
	-I Z X	-	08 20 45.0					
	E X	-	08 20 57.-					

JUL 23 USCGS

H= 13 14 35.1  
 LAT = 37.3 N  
 LONG= 141.5 E  
 DEPTH= 53 KM  
 MAGNITUDE= 5.2  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	13 26 56.0	1.4	2.00	5	9210 82.9	37.8 330.0
	-E Z BE	PCP	13 27 09.5	1.0	1.65	1		
BNS	+I Z X	P	13 26 58.0	1.1	1.85	2	9270 83.4	35.0 332.9
	E Z X	-	13 27 11.-					
FUR	+I Z SL	P	13 27 01.0	1.5	1.60	9	9350 84.0	37.7 329.1
	+E Z SL	XP	13 27 15.0	1.5	1.52	4		
	Z SL	MAXIMUM	14 09 00.0	15.0	3.29			

JUL 23

NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	16 10 49.5					
	E E X	SG	16 11 09.9					
	E X	-	16 11 25.5					
GRF	E Z BE	PN	16 10 59.6					
	E Z BE	PG	16 11 04.6					
	E N BE	SG	16 11 33.-					

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JUL 23  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	20 11 44.0					
	E N BE	S	20 12 35.2					
BNS	E N X	SG	20 12 09.6	0.7	1.95	3		
	E E X	-	20 12 10.3	0.5	1.70			
FUR	+E Z SL	-	20 12 46.0	1.0	1.76	3		

 JUL 24 USCGS  
H= 01 26 01.0  
LAT = 45.6 N  
LONG= 152.1 E  
DEPTH= 30 KM (GEOPHYSICIST)  
MAGNITUDE= 4.7  
KURIL ISLANDS REGION

GRF	-E Z BE	P	01 38 05.1	1.0	1.38	2	8810 79.2	26.8 335.4
FUR	+E Z SL	P	01 38 12.0	1.5	0.90	5	8960 80.6	26.7 334.6

 JUL 24 USCGS  
H= 02 59 21.0  
LAT = 11.9 S  
LONG= 75.1 W  
DEPTH= 1 KM  
MAGNITUDE= 5.9  
PERU

 USCGS= EXTENSIVE PROPERTY DAMAGE AT HUANCAYO. LANDSLIDES LOCALLY.  
FELT AT AYACUCHO, HUANCAYELICA AND TARMA.  
MAG. 5.0 (RRK), 5 1/2 - 3/4 (GOL).

BNS	E Z X	P	03 12 42.5				10490 94.3	256.6 38.9
	E Z X	-	03 25 04.-					
	E X LR		03 44 00.-	32.0				
BUH	-E Z GT	P	03 12 43.5	1.5	1.14		10500 94.5	257.2 41.3
FUR	+E Z SL	P	03 12 53.0	1.8	1.90	7	10710 96.3	259.4 42.2
	+E Z SL	PP	03 16 44.0	2.0	1.81	4		
	Z SL	MAXIMUM	03 46 00.0	40.0	3.44			
	Z SL	MAXIMUM	03 58 30.0	18.0	3.38			
GRF	E Z BE	P	03 12 54.4				10740 96.6	259.6 40.7
	-E Z BE	PP	03 16 48.0					

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JUL 24 USCGS  
H= 05 03 26.7  
LAT = 1.6 N  
LONG= 125.5 E  
DEPTH= 41 KM  
MAGNITUDE= 5.4  
MOLUCCA PASSAGE

FUR	+E Z SL	APP	05 22 06.0	1.5	1.00	2	11710 105.3	69.7 321.1
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 JUL 24  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	06 48 48.4					
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 JUL 24 USCGS  
H= 12 41 40.2  
LAT = 45.4 S  
LONG= 35.0 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.7  
PRINCE EDWARD ISLANDS REGION

FUR	-E Z SL	P	12 55 04.0	1.6	1.08	2	10620 95.5	163.5 344.3
	-E Z SL	PCP	12 55 12.0	1.5	1.60	1		
	-E Z SL	AP	12 55 15.0	1.5	0.90	3		
	-E Z SL	XP	12 55 18.0	1.5	0.90	2		
	-E Z SL	XPCP	12 55 21.0	1.5	0.90	5		
	Z SL	MAXIMUM	13 28 00.0	60.0	3.39			
	Z SL	MAXIMUM	13 41 00.0	19.0	3.72			

 JUL 24  
NO DETERMINATION OF EPICENTER

BNS	E Z SL	P	12 59 24.-					
	E Z SL	S	13 08 28.-					
	E SL	LR	13 28 00.-	60.0				

 JUL 24 USCGS  
H= 14 23 18.0  
LAT = 15.3 S  
LONG= 175.2 W  
DEPTH= 310 KM  
MAGNITUDE= 4.7  
TONGA ISLANDS

GRF	-E Z BE	PKP	14 42 21.0	0.9	1.46	3	16160 145.3	10.9 352.7
FUR	+E Z SL	PKP	14 42 25.0	1.6	1.15	4	16320 146.8	11.4 352.1
	+E Z SL	PKP2	14 42 35.0	1.6	0.90	2		

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JUL 24  
NO DETERMINATION OF EPICENTER

BNS	E E X	SG	15 47 35.-	1.0	1.85			
	E Z X	-	15 47 43.5	1.0	2.11			

 JUL 24 USCGS  
H= 16 19 07.4  
LAT = 49.5 N  
LONG = 155.7 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.3  
KURIL ISLANDS

GRF	-E Z BE	P	16 30 57.0	0.9	1.41	4	8520 76.6	23.0 337.2
FUR	+E Z SL	P	16 31 04.0	1.8	1.76	3	8670 78.0	22.9 336.5
	-E Z SL	PCP	16 31 13.0	1.5	0.85	2		
	+E Z SL	XPCP	16 31 29.0	1.5	0.90	5		

 JUL 24 USCGS  
H= 23 21 17.2  
LAT = 34.9 N  
LONG = 26.0 E  
DEPTH = 41 KM  
MAGNITUDE = 4.3  
CRETE

 JUL 24 BCIS  
H= 23 21 20.0  
LAT = 34.9 N  
LONG = 26.0 E  
DEPTH = 75 KM  
NO MAGNITUDE COMPUTED  
CRETE

FUR	-E Z SL	P	23 25 15.0	1.5	0.85	2	1910 17.2	135.0 324.8
	-E Z SL	-	23 25 19.0	1.5	0.90	2		
	-E Z SL	AP	23 25 25.0	1.5	0.90	1		
	-E Z SL	Xpp	23 25 40.0	1.5	1.11	2		
	-I Z SL	-	23 25 49.0	1.5	1.23	2		
	-E Z SL	-	23 26 01.0	1.5	1.30	6		
	Z SL	MAXIMUM	23 31 20.0	7.0	2.62			

GRF	E Z BE	P	23 25 32.0				2040 18.3	138.1 328.1
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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 JUL 25 USCGS  
H= 06 06 42.4  
LAT = 25.6 S  
LONG = 63.3 W  
DEPTH = 579 KM  
MAGNITUDE = 5.5  
SALTA PROVINCE, ARGENTINA

BUH	E Z GT	P	06 19 16.-	1.5	1.17		10850 97.6	239.8 39.4
BNS	-E Z X	P	06 19 19.-	2.0	1.95	2	10910 98.1	239.3 37.0
	E Z X	-	06 23 24.-					
	I X	-	06 23 25.5					
	+I Z X	PP	06 23 25.5	1.8	2.36	2		
FUR	+E Z SL	P	06 19 23.0	2.0	2.09	9	11020 99.1	241.9 40.8
	-E Z SL	AP	06 21 32.0	1.7	1.65	3		
	-E Z SL	XP	06 22 35.0	2.0	1.69	7		
	+I Z SL	PP	06 23 32.0	1.8	2.49	2		
	-E Z SL	APP	06 25 24.0	1.5	1.23	3		
GRF	-E Z BE	P	06 19 26.9	1.6	1.86	2	11090 99.8	242.1 39.4
	E Z BE	AP	06 21 36.0					
	+E Z BE	PP	06 23 36.9	2.2	2.55	2		
	+E Z BE	APP	06 25 30.4					

 JUL 25  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	10 45 19.0	1.5	0.90	5		
	-E Z SL	-	10 45 52.0	1.5	1.08	7		
	Z SL	MAXIMUM	10 47 40.0	1.5	1.40			

 JUL 25 BCIS  
H= 11 06 06.0  
LAT = 47.8 N  
LONG = 11.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GERMANY

FUR = REGION OF PEISSENBERG, BAVARIA. FELT AT PEISSENBERG.

FUR	+I Z SL	PG	11 06 11.0	1.3	2.43	9	40 0.4	205.8 25.6
	+I Z SL	SG	11 06 23.0	2.0	2.09	4		
	Z SL	MAXIMUM	11 06 55.0	1.5	2.68			
GRF	+I Z BE	PN	11 06 35.0	0.4	1.26	3	210 1.8	183.5 3.3
	+I Z BE	PG	11 06 41.9	0.2	1.46	3		
	-I N BE	SG	11 07 04.3	0.5	1.47	2		
BUH	E Z GT	PN	11 06 44.-				230 2.1	112.6 294.7
KRL	-E Z ST	PN	11 06 22.-	0.3	2.15		230 2.1	122.5 304.5

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 25 USCGS  
 H= 12 54 27.6  
 LAT = 53.3 N  
 LONG= 167.0 W  
 DEPTH= 42 KM  
 MAGNITUDE= 5.0  
 FOX ISLANDS, ALEUTIAN ISLANDS

GRF	E Z BE	P	13 06 20.0	2.0	2.18	2	8600 77.4	358.9 1.2
FUR	+E Z SL	P	13 06 28.0	1.5	1.30	2	8770 78.9	359.0 1.2
	+E Z SL	-	13 06 46.0	1.7	1.56	2		

JUL 25 USCGS  
 H= 13 34 09.8  
 LAT = 2.6 N  
 LONG= 126.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 MOLUCCA PASSAGE

GRF	E Z BE	P	13 48 12.4				11580 104.1	68.5 322.8
	E Z BE	PP	13 52 34.0					
FUR	+E Z SL	P	13 48 14.0	1.5	1.00	3	11640 104.7	68.9 321.3
	+E Z SL	PP	13 52 36.0	2.0	1.91	1		
	-E Z SL	APP	13 52 47.0	1.5	1.00	1		
	-I Z SL	-	13 52 58.0	1.5	1.23	2		
	Z SL	MAXIMUM	14 36 00.0	27.0	3.26			

JUL 25 USCGS  
 H= 21 30 33.1  
 LAT = 12.4 N  
 LONG= 40.7 W  
 DEPTH= 9 KM  
 MAGNITUDE= 4.9  
 NORTH ATLANTIC OCEAN

FUR	-E Z SL	P	21 40 13.0	1.5	0.90	3	6210 55.9	248.5 39.6
	+E Z SL	PP	21 41 11.0	1.5	0.90	5		
GRF	E Z HE	P	21 40 17.5				6270 56.4	247.5 37.9

JUL 25 USCGS  
 H= 22 49 41.3  
 LAT = 21.5 N  
 LONG= 111.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 EASTERN CHINA

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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USCGS= SLIGHT DAMAGE AT HONG KONG. 3000 REPORTED KILLED IN CHINA.

HAM	E Z SX	P	23 01 49.5				8870 79.8	67.7 323.5
GRF	+E Z BE	P	23 01 52.9	1.6	2.16	4	8950 80.5	68.0 319.7
	E Z BE	-	23 02 53.-					
	-E Z BE	-	23 03 12.4					
	E Z BE	PP	23 05 04.6					
FUR	-E Z SL	P	23 01 54.0	2.0	1.81	8	9010 81.0	67.9 318.2
	+I Z SL	PCP	23 01 57.0	2.0	2.72	5		
	-E Z SL	XPCP	23 02 13.0	1.3	1.85	2		
	-I Z SL	PP	23 04 59.0	2.0	2.40	5		
	+E Z SL	XPP	23 05 13.0	2.0	2.09	3		
	-E Z SL	PPP	23 06 49.0	1.5	1.23	2		
	+I Z SL	-	23 06 59.0	1.5	1.26	2		
	+E Z SL	-	23 08 09.0	1.5	1.23	2		
	+E Z SL	-	23 08 20.0	1.8	1.76	2		
	Z SL	MAXIMUM	23 38 30.0	15.0	3.47			
STU	E Z BE	P	23 02 00.4	2.2	2.86	6	9130 82.1	66.5 319.3
BNS	+I Z FS	P	23 02 02.8	2.3	2.41	7	9160 82.4	65.3 321.9
	I Z FS	PP	23 05 08.8					
	E FS	LR	23 34 50.-	22.0				
KKL	-E Z ST	P	23 02 04.-	2.6	2.90		9170 82.4	65.9 319.8
BUH	+E Z GT	P	23 02 04.-	2.0	1.83		9190 82.7	65.8 319.5

JUL 25 USCGS  
 H= 22 59 08.3  
 LAT = 53.8 N  
 LONG= 160.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 NEAR EAST COAST OF KAMCHATKA

GRF	-I Z BE	P	23 10 40.8	0.8	1.47	4	8190 73.6	18.5 339.7
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JUL 26  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	02 49 05.0	1.5	1.00	6		
	+E Z SL	-	02 49 20.0	1.5	1.08	2		

JUL 26 USCGS  
 H= 07 21 00.2  
 LAT = 12.6 N  
 LONG= 87.8 W  
 DEPTH= 84 KM  
 MAGNITUDE= 4.8  
 NEAR COAST OF NICARAGUA

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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	P	07 33 56.0				9590 86.2	284.9 40.0
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JUL 26 USCGS  
 H= 12 24 29.5  
 LAT = 43.7 N  
 LONG= 14.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 NORTH ATLANTIC OCEAN

BUH	+E Z GT	P	12 28 19.5	1.0	0.90		1840 16.6	261.0 64.4
FUR	+E Z SL	P	12 28 46.0	2.0	2.12	3	2060 18.5	265.6 66.9
	+I Z SL	AP	12 28 54.0	2.0	2.09	3		
	-I Z SL	PP	12 28 58.0	1.3	2.18	3		
	-E Z SL	-	12 29 16.0	1.5	1.23	2		
GRF	+E Z BE	P	12 28 46.8				2070 18.7	261.0 62.1
	+E Z BE	AP	12 28 53.8	0.8	1.47	2		

JUL 26  
 NO DETERMINATION OF EPICENTER

BNS	+I Z FS	PN	12 28 18.0	1.4	1.48	2		
	E E FS	SN	12 31 07.0					
	E FS	-	12 31 22.5					

JUL 26 USCGS  
 H= 15 32 10.0  
 LAT = 53.3 N  
 LONG= 167.1 W  
 DEPTH= 69 KM  
 MAGNITUDE= 4.7  
 FOX ISLANDS, ALEUTIAN ISLANDS

FUR	-E Z SL	P	15 44 11.0	1.5	0.85	4	8770 78.9	359.0 1.1
	-E Z SL	PCP	15 44 19.0	2.0	1.61	2		
	-E Z SL	-	15 44 40.0	1.5	0.90	2		

JUL 26  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	21 09 11.0	1.5	0.90	2		
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JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 27 USCGS  
 H= 02 14 28.1  
 LAT = 19.4 S  
 LONG= 168.8 E  
 DEPTH= 70 KM  
 MAGNITUDE= 5.4  
 NEW HEBRIDES ISLANDS

GRF	-I Z BE	PKP	02 33 59.0	1.2	2.54	9	16110 144.9	38.7 334.5
BNS	-I Z X	PKP	02 33 59.8	1.2	2.48		16160 145.3	31.5 339.5
	E Z X	-	02 34 09.0					
FUR	+I Z SL	PKP	02 34 01.0	1.5	1.92	9	16240 146.0	40.2 332.8
	+I Z SL	APKP	02 34 16.0	1.7	2.09	3		
	+E Z SL	PP	02 37 23.0	1.5	0.90	3		
STU	E Z BE	PKP	02 34 01.1	1.0	2.49	9	16280 146.4	36.4 335.4
KRL	-E Z ST	PKP	02 34 04.4	0.8	2.26		16290 146.5	35.0 336.4
BUH	E N GT	PKP	02 34 05.0	1.0	1.17		16330 146.9	35.0 336.2

JUL 27 USCGS  
 H= 08 49 37.6  
 LAT = 17.6 S  
 LONG= 178.3 W  
 DEPTH= 552 KM  
 MAGNITUDE= 4.0  
 FIJI ISLANDS REGION

GRF	+E Z BE	PKP	09 08 20.0	1.0	1.38	5	16360 147.1	16.8 348.6
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JUL 27 USCGS  
 H= 09 01 28.1  
 LAT = 45.7 N  
 LONG= 26.4 E  
 DEPTH= 163 KM  
 MAGNITUDE= 4.2  
 RUMANIA

FUR	+E Z SL	-	09 04 10.0	1.6	1.00	3	1190 10.7	98.0 289.1
	-E Z SL	-	09 05 04.0	2.0	1.61	3		

JUL 27 USCGS  
 H= 10 23 02.7  
 LAT = 43.8 N  
 LONG= 148.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS REGION



JUL 1969 JUL 1969

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC.

JUL 27 USCGS
H= 19 27 03.9
LAT = 57.6 N
LONG= 153.6 W
DEPTH= 51 KM
MAGNITUDE= 4.6
KODIAK ISLAND REGION

Table row for station FUR with parameters: -E Z SL P, 19 38 35.0, 1.5, 1.08, 4, 8210 73.8, 351.6 10.5

JUL 27 USCGS
H= 21 21 40.6
LAT = 59.4 N
LONG= 145.3 W
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 5.3
GULF OF ALASKA

Table with multiple rows for stations HAM, BNS, GRF, KRL, BUH, STU, FUR with various seismic parameters.

JUL 27
NO DETERMINATION OF EPICENTER

Table row for station FUR with parameters: \*E Z SL -, 22 00 45.0, 2.0, 1.61, 5

JUL 1969 JUL 1969

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC.

JUL 27 USCGS
H= 22 26 54.2
LAT = 24.9 N
LONG= 122.5 E
DEPTH=105 KM
MAGNITUDE= 5.4
TAIWAN REGION

Table with multiple rows for stations GRF and FUR with various seismic parameters.

JUL 27 USCGS
H= 23 49 50.3
LAT = 20.0 N
LONG= 64.3 W
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 5.0
NORTH ATLANTIC OCEAN

Table row for station FUR with parameters: -E Z SL P, 00 00 35.0, 2.0, 1.61, 3

JUL 28 USCGS
H= 06 29 53.9
LAT = 57.5 N
LONG= 153.9 W
DEPTH= 28 KM
MAGNITUDE= 5.3
KODIAK ISLAND REGION

Table with multiple rows for stations BNS, GRF, FUR with various seismic parameters.

JUL 28
NO DETERMINATION OF EPICENTER

Table row for station GRF with parameters: E Z BE PN, 11 00 27.9

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTC.
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JUL 28 USCOS  
 H= 13 03 17.6  
 LAT = 30.7 N  
 LONG= 132.5 E  
 DEPTH= 24 KM  
 MAGNITUDE= 5.6  
 SOUTHEAST OF SHIKOKU, JAPAN

GRF	-E Z BE	P	13 15 50.4	1.4	2.40	5	9390	84.5	47.7	326.1
	E Z BE	AP	13 16 00.8							
BNS	-I Z FS	P	13 15 54.5	1.8	1.70	2	9500	85.5	44.8	328.8
	E Z FS	-	13 16 04.-							
FUR	+I Z SL	P	13 15 56.0	1.5	1.72	9	9500	85.5	47.6	324.9
	-I Z SL	APCP	13 16 05.0	1.5	1.52	4				
	+I Z SL	XPCP	13 16 13.0	1.8	1.83	3				
	+E Z SL	XPP	13 19 29.0	1.8	1.45	5				
STU	-E Z BE	P	13 15 58.0	1.2	2.02	5	9570	86.1	46.2	326.3

JUL 28  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	18 30 57.0	2.0	1.76	1				
	-E Z SL	-	18 31 49.0	1.5	0.90	1				
GRF	E Z BE	PG	18 31 24.0							
	E N BE	SG	18 32 10.4							

JUL 29 USCOS  
 H= 06 24 21.6  
 LAT = 14.8 S  
 LONG= 167.2 E  
 DEPTH=124 KM  
 MAGNITUDE= 5.4  
 NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP2	06 43 30.8				15580	140.1	37.8	335.7
FUR	+E Z SL	PKP	06 43 35.0	1.5	1.48	3	15710	141.3	39.0	334.2
	-E Z SL	XPKP	06 44 11.0	1.5	1.18	2				
	-E Z SL	PP	06 46 42.0	2.5	1.23	3				
	-E Z SL	APP	06 47 07.0	1.5	0.90	5				
	+E Z SL	XPP	06 47 13.0	1.5	0.90	1				
	-E Z SL	PKS	06 47 24.0	1.5	1.08	2				

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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPTC.
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JUL 29 BCIS  
 H= 16 35 28.0  
 LAT = 49.7 N  
 LONG= 7.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

BNS = SOUTH OF KOBLENZ, M (LOC) =2.5

TNS	I	P	16 35 48.9				90	0.8	229.8	49.1
KRL	-E N ST	PN	16 35 57.8	0.5	2.50		100	0.9	319.5	138.8
BNS	E Z X	PG	16 35 57.-				140	1.3	170.5	350.8
	+E E X	SG	16 36 15.5	0.6	1.95					
	E X	-	16 36 16.-	0.6	1.85					
GRF	-E Z BE	PG	16 36 12.7				270	2.4	271.6	88.8
	E N BE	SG	16 36 40.5							

JUL 29 BCIS  
 H= 23 56 21.0  
 LAT = 48.2 N  
 LONG= 9.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

STU = WESTERN SWABIAN JURA.  
 H= 23 56 23.0; 48 DEG 17.0 MIN N; 9 DEG 4.3 MIN E

DEPTH= 2 KM, ML= 2.2  
 THIS SHOCK CONTINUES THE AFTERSHOCK SERIE THAT LASTS UNTIL SEPT.  
 29, 1969. THAN A PERIOD OF QUIESCENCE HELDS UNTIL JAN 22ND,1970;  
 WHEN A NEW PRINCIPAL SHOCK OF THE SAME MAGNITUDE AS ON FEB 26TH,  
 1969 STARTS ANOTHER EARTHQUAKE SERIE WITH MORE THAN 100 AFTER-  
 SHOCKS.

KRL	-I Z ST	PN	23 56 40.0	0.5	2.50		100	0.9	150.4	330.9
FUR	-E Z SL	PN	23 56 52.0	1.5	0.90	5	160	1.5	272.2	90.6
	+E Z SL	PG	23 56 55.0	1.5	1.08	2				
	-E Z SL	SN	23 57 16.0	1.5	0.90	5				
	+E Z SL	-	23 57 43.0	1.5	0.90	5				
	Z SL	MAXIMUM	23 58 34.0	1.5	1.11					
GRF	E Z BE	PN	23 56 55.7				230	2.0	223.8	42.2
	E Z BE	PG	23 57 00.4							
	E N BE	SG	23 57 25.4							

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 30 USCGS  
 H= 03 23 37.6  
 LAT = 22.4 N  
 LONG = 142.8 E  
 DEPTH = 20 KM (GEOPHYSICIST)  
 MAGNITUDE = 5.3  
 VOLCANO ISLANDS REGION

FUR	-E Z SL	P	03 37 11.0	1.5	1.11	3	10830 97.4	44.3 329.6
	+E Z SL	APCP	03 37 19.0	1.7	1.56	8		
	-E Z SL	XPCP	03 37 26.0	1.7	1.49	2		
	-E Z SL	PP	03 41 09.0	2.0	1.76	1		
	-E Z SL	-	03 41 17.0	1.5	1.08	7		

JUL 30  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 52 36.4					
	E N BE	SG	12 52 54.5					

JUL 30  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	16 58 39.-					
	E N BE	SG	16 59 01.7					

JUL 30 USCGS  
 H= 23 52 31.7  
 LAT = 23.6 S  
 LONG = 177.0 W  
 DEPTH = 137 KM  
 MAGNITUDE = 4.9  
 SOUTH OF FIJI ISLANDS

GRF	E Z HE	PKP	00 12 22.3				17040 153.2	16.8 348.2
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JUL 31 USCGS  
 H= 05 05 04.3  
 LAT = 27.6 S  
 LONG = 66.2 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.3  
 SOUTH INDIAN OCEAN

FUR	+E Z SL	P	05 18 01.0	1.5	1.52	9	10010 90.0	133.4 326.8
	-I Z SL	AP	05 18 10.0	1.5	1.36	1		
	-E Z SL	-	05 18 24.0	1.5	1.23	3		

JUL 1969

JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 31 USCGS  
 H= 11 23 01.2  
 LAT = 53.0 N  
 LONG = 170.1 W  
 DEPTH = 37 KM  
 MAGNITUDE = 5.3  
 FOX ISLANDS, ALEUTIAN ISLANDS

BNS	E Z FS	P	11 34 48.0				8490 76.4	358.3 1.8
	E Z FS	LR	11 59 30.-					
	FS	MAXIMUM	12 00 30.-	40.0				
GRF	+E Z BE	P	11 34 55.4	1.2	1.70	3	8640 77.7	0.8 359.1
	E Z BE	PP	11 37 49.-					
BUH	E Z GT	P	11 35 01.-	1.4	1.09		8750 78.7	359.0 1.1
FUR	+E Z SL	P	11 35 03.0	2.0	1.99	4	8810 79.2	0.9 359.1
	+I Z SL	XPCP	11 35 24.0	1.8	1.72	2		

JUL 31  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	12 47 26.3					
	+I Z FS	-	12 47 29.5	1.3	1.78			

JUL 31  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 16 03.0	1.5	0.90	2		
	-E Z SL	-	13 16 20.0	1.5	1.08	2		
GRF	E Z BE	PG	13 18 00.0					
	E N BE	SG	13 18 37.7					

JUL 31  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	14 20 18.6					
	E Z BE	PG	14 20 23.7					
	E N BE	SG	14 20 48.4					

JUL 31  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	16 00 36.3					
	E N BE	SG	16 00 58.0					



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JUL 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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JUL 31 USCGS  
 H= 20 19 31.4  
 LAT = 19.3 S  
 LONG= 168.7 E  
 DEPTH= 52 KM  
 MAGNITUDE= 4.5  
 NEW HEBRIDES ISLANDS

FUR	+E Z SL	PKP	20 39 06.0	1.5	1.11	1	16220 145.9	40.3 332.7
	+E Z SL	APKP	20 39 19.0	1.3	1.85	7		

AUG 01 USCGS  
 H= 12 05 34.6  
 LAT = 23.4 S  
 LONG= 177.5 W  
 DEPTH=189 KM  
 MAGNITUDE= 5.0  
 SOUTH OF FIJI ISLANDS

BNS	I Z FS	PKP	12 25 08.6				16930 152.2	9.2 353.7
	I Z FS	-	12 25 14.8	1.5	1.60			
GRF	E Z BE	PKP	12 25 11.0			2	17000 152.9	17.7 347.6
	-E Z BE	-	12 25 26.3	1.0	1.78	5		
FUR	-E Z SL	PKP	12 25 04.0	1.6	1.15	2	17160 154.3	18.8 346.4
	+I Z SL	-	12 25 07.0	1.6	1.15	2		
	-I Z SL	-	12 25 13.0	2.0	1.69	2		
	-E Z SL	-	12 25 19.0	1.7	1.65	3		
	-I Z SL	PKP2	12 25 28.0	1.6	1.49	5		
	+I Z SL	APKP	12 25 54.0	1.6	1.15	1		
	+E Z SL	XPKP	12 26 16.0	1.9	1.54	3		
	-I Z SL	APKP	12 26 21.0	1.6	1.15	2		
	+I Z SL	XPKP	12 26 45.0	1.9	1.61	2		

AUG 01 USCGS  
 H= 13 06 49.1  
 LAT = 18.8 N  
 LONG= 64.4 W  
 DEPTH= 47 KM  
 MAGNITUDE= 5.0  
 VIRGIN ISLANDS

FUR	-E Z SL	P	13 17 46.0	1.5	1.11	3	7420 66.8	272.6 44.9
	-I Z SL	-	13 18 45.0	1.7	1.60	2		

AUG 01  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 00 05.0	1.5	0.70	1		
	Z SL	MAXIMUM	16 00 30.0	1.8	1.79			

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 01 USCGS  
 H= 23 43 44.9  
 LAT = 45.6 N  
 LONG= 150.9 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.6  
 KURIL ISLANDS

HAM	+I Z SX	P	23 55 30.2			6	8430 75.9	27.1 337.1
GRF	+E Z HE	P	23 55 45.1	0.8	1.23	2	8770 78.8	27.6 334.6
	-I Z HE	-	23 55 47.2	1.2		9		
	-I Z HE	-	23 56 59.2					
BNS	+I Z FS	P	23 55 46.0	1.4	2.36	9	8770 78.8	25.1 337.6
	E Z FS	-	00 11 26.-					
	E FS	LR	00 24 36.-					
HEI	+E Z ST	P	23 55 51.3	1.6	2.81	7	8880 79.8	26.0 336.0
FUR	-I Z SL	P	23 55 53.0	1.5	2.10	9	8920 80.2	27.5 333.9
	-I Z SL	XPCP	23 56 12.0	1.5	1.70	2		
	-I Z SL	-	23 57 05.0	1.5	2.00	7		
	+I Z SL	-	23 57 38.0	1.5	1.70	2		
	-E Z SL	PP	23 58 57.0	2.2	2.04	1		
	-I Z SL	APP	23 59 05.0	1.5	1.40	2		
	-E Z SL	-	00 00 57.0	2.0	1.91	5		
	Z SL	MAXIMUM	00 34 30.0	20.0	3.94			
STU	+E Z BE	P	23 55 53.0	1.4	2.62	9	8920 80.3	26.2 335.4
KRL	+E Z ST	P	23 55 52.6	0.4	2.00		8930 80.3	25.7 336.0
BUH	+E Z GT	P	23 55 55.0	0.5	2.20		8970 80.6	25.6 335.9

AUG 02 USCGS  
 H= 00 34 16.9  
 LAT = 45.3 N  
 LONG= 151.1 E  
 DEPTH= 21 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

HAM	-I Z SX	P	00 46 06.7			2	8470 76.2	27.1 337.3
GRF	+E Z BE	P	00 46 21.8	0.8	1.34	2	8800 79.2	27.6 334.8
BNS	+E Z FS	P	00 46 21.5	1.4	1.85	4	8800 79.2	25.0 337.7
	E Z FS	-	00 46 43.5					
	E FS	-	00 47 23.-					
FUR	-E Z SL	P	00 46 28.0	1.3	2.40	8	8950 80.5	27.5 334.0
	+I Z SL	AP	00 46 37.0	1.5	1.62	2		
	+E Z SL	APCP	00 46 42.0	1.5	1.23	3		
	+I Z SL	XPCP	00 46 49.0	1.8	1.79	2		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	Z SL	MAXIMUM	01 25 20.0	20.0	3.47			
STU	E Z HE	P	00 46 29.5	1.2	1.92	4	8960 80.6	26.2 335.6
KRL	E Z ST	P	00 46 30.-				8960 80.6	25.7 336.1
BUH	+E Z GT	P	00 46 31.3				9000 80.9	25.5 336.1
	-E Z GT	-	00 46 32.0	1.2	2.06			

AUG 02 USCGS  
 H= 02 40 04.9  
 LAT = 45.2 N  
 LONG= 150.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	-E Z BE	P	02 52 09.0	0.4	1.11	3	8800 79.2	27.8 334.7
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AUG 02 USCGS  
 H= 04 30 29.2  
 LAT = 6.5 S  
 LONG= 146.9 E  
 DEPTH= 17 KM  
 MAGNITUDE= 5.3  
 EAST NEW GUINEA REGION

FUR	-E Z SL	PKP	04 49 29.0	1.5	1.00	2	13790 124.0	57.0 325.6
	-E Z SL	APP	04 51 28.0	1.5	1.08	1		

AUG 02  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	05 11 13.0	1.5	1.08	7		
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AUG 02 USCGS  
 H= 06 04 08.5  
 LAT = 45.2 N  
 LONG= 150.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	-E Z BE	P	06 16 13.0	0.7	1.32	3	8810 79.2	27.7 334.7
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FUR	-E Z SL	P	06 16 20.0	1.5	1.08	7	8960 80.6	27.7 333.9
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AUG 02  
 NO DETERMINATION OF EPICENTER

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	-	08 24 39.0	1.5	0.90	2		
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AUG 02 USCGS  
 H= 10 17 54.1  
 LAT = 45.3 N  
 LONG= 151.0 E  
 DEPTH= 38 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	-E Z BE	P	10 29 56.8	1.2	1.80	3	8800 79.2	27.6 334.8
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BNS	E Z FS	P	10 29 56.4	1.2	1.30	2	8800 79.2	25.1 337.7
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FUR	+E Z SL	P	10 30 04.0	1.5	1.11	2	8950 80.5	27.5 334.0
	+E Z SL	APCP	10 30 18.0	1.5	0.90	5		

AUG 02 USCGS  
 H= 17 39 21.9  
 LAT = 56.2 N  
 LONG= 162.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 NEAR EAST COAST OF KAMCHATKA

GRF	-E Z BE	P	17 50 43.7	1.2	1.67	2	7980 71.8	16.5 340.8
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AUG 02 USCGS  
 H= 20 12 44.4  
 LAT = 2.6 S  
 LONG= 126.6 E  
 DEPTH= 28 KM  
 MAGNITUDE= 5.6  
 CERAM SEA

FUR	-E Z SL	PP	20 31 40.0	1.5	1.00	6	12080 108.6	72.4 320.3
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AUG 03 USCGS  
 H= 00 22 32.0  
 LAT = 4.2 S  
 LONG= 153.0 E  
 DEPTH= 65 KM  
 MAGNITUDE= 5.3  
 NEW IRELAND REGION

GRF	-E Z BE	PKP	00 41 25.8	0.7	1.20	2	13830 124.4	48.4 330.9
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BNS	E Z FS	PKP	00 41 27.-	1.0	1.78	4	13940 125.4	43.4 334.2
	I Z FS	-	00 41 28.7					
	E FS	PP	00 43 16.-					



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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	-I Z SL	PKP	00	41	27.0	1.5	1.62	8	13940	125.4	49.2	329.4
	+E Z SL	APKP	00	41	40.0	1.5	1.23	2				
	+I Z SL	PP	00	43	20.0	1.5	1.40	5				
	+I Z SL	XPP	00	43	35.0	1.5	1.23	3				
	-I Z SL	PKS	00	45	07.0	1.5	1.23	2				
	+E Z SL	PPP	00	46	06.0	2.0	1.76	7				
	N SL	MAXIMUM	01	42	00.0	16.0	3.32					
STU	E Z BE	PKP	06	41	28.5	1.0	2.42	9	14010	126.0	46.7	331.1
KRL	+E Z ST	PKP	00	41	30.0	0.5	1.60		14030	126.2	45.7	331.8
BUH	E Z GT	PKP	00	41	28.0				14070	126.5	45.7	331.6
	+E Z GT	-	00	41	29.4							
	+E Z GT	-	00	41	31.2	0.8	1.94					

AUG 03 USCGS

H= 04 19 41.4  
 LAT = 24.9 N  
 LONG= 123.2 E  
 DEPTH= 62 KM  
 MAGNITUDE= 5.3  
 SOUTHWESTERN RYUKYU ISLANDS

GRF	-E Z BE	P	04	32	09.0	1.2	1.67	4	9390	84.4	57.8	322.8
FUR	-I Z SL	P	04	32	13.0	1.5	1.57	9	9470	85.2	57.8	321.4
	-E Z SL	XPCP	04	32	28.0	2.0	1.67	2				
BNS	+I Z FS	P	04	32	15.3	1.5	1.70	2	9550	85.9	55.0	325.3
	E Z FS	-	04	33	15.5							
STU	+E Z BE	P	04	32	16.1	1.0	1.80	4	9560	86.0	56.3	322.7
BUH	+E Z GT	P	04	32	18.0				9630	86.6	55.6	323.0
	+E Z GT	-	04	32	18.8	1.0	1.60					

AUG 03

NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	05	05	44.0	1.5	0.70	3				
	Z SL	MAXIMUM	05	07	00.0	1.5	1.11					

AUG 03 USCGS

H= 07 48 11.4  
 LAT = 45.3 N  
 LONG= 151.8 E  
 DEPTH= 13 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

BNS	-E Z FS	P	08	00	17.5	1.4	1.85	3	8820	79.3	24.6	338.1
	+I Z FS	-	08	00	30.5	1.2	2.15					

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	-E Z SL	P	08	00	26.0	1.7	1.95	7	8970	80.7	27.0	334.4
	+I Z SL	XPCP	08	00	40.0	2.0	2.21	3				
	-I Z SL	-	08	01	43.0	1.5	1.23	9				
	-I Z SL	-	08	02	08.0	1.5	1.23	5				
STU	+E Z BE	P	08	00	26.0	0.6	1.93	5	8980	80.7	25.7	336.0
BUH	E Z GT	P	08	00	26.6				9020	81.1	25.1	336.5
	I Z GT	-	08	00	27.8	1.0	1.65					

AUG 04 USCGS

H= 10 23 28.9  
 LAT = 51.4 N  
 LONG= 179.6 W  
 DEPTH= 41 KM  
 MAGNITUDE= 5.3  
 ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	+I Z FS	P	10	35	23.8	1.2	1.90	4	8660	77.9	4.3	355.7
	E Z FS	LR	11	00	50.0							
	FS	MAXIMUM	11	17	00.0	18.0						
GRF	+E Z BE	P	10	35	29.5	1.4	1.78	4	8770	78.9	6.9	352.9
BUH	+I Z GT	P	10	35	36.0	1.1	1.96	7	8900	80.1	4.9	354.8

AUG 04 USCGS

H= 17 19 19.6  
 LAT = 5.7 S  
 LONG= 125.3 E  
 DEPTH= 521 KM  
 MAGNITUDE= 6.2  
 BANDA SEA

HAM	E Z SX	P	17	32	41.0			2	12180	109.5	72.5	325.0
	E Z SX	-	17	32	53.0			3				
	E Z SX	-	17	42	05.0			6				
GRF	E Z BE	P	17	32	55.0				12210	109.8	74.9	321.0
	E Z BE	XD	17	36	13.4							
	-I Z BE	PKP	17	36	52.7	1.3	1.90	4				
	-E Z BE	PP	17	37	34.6	0.8	1.47	2				
	-I Z BE	-	17	37	38.7	1.0	2.08	3				
	E Z BE	XPP	17	39	54.5							
	+E Z BE	PKKP	17	47	57.4	0.8	1.29	2				
	+E Z BE	-	17	48	10.9	1.2	1.80	4				
FUR	+E Z SL	P	17	32	55.0	1.5	0.90	5	12250	110.1	75.4	319.4
	+I Z SL	PKP	17	36	53.0	1.5	1.52	6				
	-I Z SL	PP	17	37	42.0	1.5	0.85	1				
	+I Z SL	APKP	17	39	14.0	1.8	1.98	3				
	-I Z SL	APP	17	39	41.0	1.5	1.40	3				
	+I Z SL	XPKP	17	40	07.0	1.7	1.95	4				
	+E Z SL	SKP	17	40	31.0	1.8	2.05	2				



AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-E Z SL	XPP		17 40 44.0	2.0	2.03	1		
-I Z SL	SKKP		17 43 38.0	1.8	1.93	3		
-I Z SL	SP		17 46 14.0	1.5	1.40	1		
+E Z SL	PKKP		17 48 08.0	1.5	1.57	9		
+E Z SL	SS		17 52 14.0	2.0	1.91	3		
HLG	E X	PKP	17 36 52.7	1.4	2.13	1	12280 110.4	70.4 326.2
E Z X	PKP		17 36 53.8	1.0	2.15	3		
I E X	SP		17 46 14.1	1.4	2.33	2		
E Z X	SP		17 46 15.1	2.0	2.53	4		
N X	SP		17 46 27.3	2.0	2.39	2		
STU	-E Z BE	PKP	17 36 09.0	0.3	1.58	2	12380 111.3	73.5 320.4
BNS	+I Z FS	PKP	17 36 56.4	1.4	1.70	3	12440 111.9	71.0 323.1
E Z FS	-		17 37 53.5	2.8	2.60			
I FS	-		17 46 24.3					
BUH	+I Z GT	PKP	17 36 56.4	0.8	1.94	8	12450 112.0	72.8 320.5

AUG 04  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	17 27 14.5	1.6	1.86	2		
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AUG 04 USCGS  
H= 21 50 02.3  
LAT = 26.9 S  
LONG= 70.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
NEAR COAST OF NORTHERN CHILE

FUR	+E Z SL	PP	22 08 31.0	2.0	1.61	3	11640 104.6	246.1 43.3
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AUG 05 USCGS  
H= 02 13 09.6  
LAT = 1.3 N  
LONG= 126.2 E  
DEPTH= 34 KM  
MAGNITUDE= 6.1  
MOLUCCA PASSAGE

HAM	+I Z SX	P	02 27 13.5			1	11600 104.3	67.7 326.4
E Z SX	-		02 27 26.-			5		
E Z SX	-		02 30 42.-			5		
-I E WI	S		02 39 03.3			9		
GRF	-E Z BE	P	02 27 16.3	2.2	2.25	2	11660 104.9	69.7 322.5
E N BE	PP		02 30 59.-					
E Z BE	-		02 43 26.-					
HLG	Z X	P	02 27 00.-	2.0	2.31	2	11690 105.1	65.7 327.6

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
E X	P		02 27 00.-	1.6	2.27	2		
Z X	-		02 30 00.-	2.0	1.83	1		
FUR	-E Z SL	P	02 27 17.0	1.5	1.08	7	11720 105.4	70.1 321.0
+I Z SL	XO		02 27 29.0	3.0	2.66	2		
-I Z SL	PP		02 31 36.0	1.5	1.70	2		
-I Z SL	XPP		02 31 50.0	1.5	1.92	5		
+I Z SL	PPP		02 33 53.0	2.0	2.31	3		
-E Z SL	SKP		02 37 51.0	1.5	1.23	2		
+E Z SL	SKKS		02 38 24.0	3.0	2.62	5		
-E Z SL	S		02 39 08.0	3.0	1.32	5		
-E Z SL	XS		02 39 24.0	1.5	1.23	9		
+I Z SL	SP		02 40 51.0	1.5	1.40	3		
+I Z SL	PS		02 41 05.0	1.8	2.05	2		
Z SL	MAXIMUM		02 49 50.0	16.0	4.15			
STU	+E Z BE	P	02 27 21.0	1.5	1.85	2	11840 106.5	68.3 322.1
BNS	E Z FS	P	02 27 23.5	2.5	2.34	5	11880 106.8	66.0 324.7
E Z FS	S		02 41 00.-					
E FS	LR		03 02 40.-	60.0				
KRL	E Z WH	P	02 27 30.-				11880 106.9	67.5 322.5
E Z WH	PKP		02 31 39.5					
BUH	E Z GT	P	02 27 26.-				11910 107.1	67.5 322.2
E Z GT	-		02 31 32.-					

AUG 05 USCGS  
H= 16 32 25.8  
LAT = 5.2 S  
LONG= 153.8 E  
DEPTH= 69 KM  
MAGNITUDE= 5.4  
NEW IRELAND REGION

GRF	E Z BE	PKP	16 51 21.7				13970 125.6	48.1 330.9
E Z BE	-		16 52 20.4					
E Z BE	PP		16 53 38.5					
BNS	E Z SL	PKP	16 51 22.-				14080 126.6	43.1 334.3
E Z SL	-		16 53 16.-					
E SL	LR		17 29 00.-					
FUR	+E Z SL	PKP	16 51 24.0	1.5	0.70	1	14080 126.6	49.0 329.5
+E Z SL	APKP		16 51 48.0	1.5	1.23	3		
+E Z SL	XPKP		16 51 56.0	1.5	1.45	6		
+E Z SL	PP		16 53 21.0	2.0	1.95	2		
+I Z SL	APP		16 53 39.0	1.8	0.93	3		
+I Z SL	XPP		16 53 51.0	2.0	2.09	8		
+I Z SL	SKP		16 54 50.0	1.5	1.34	2		
-I Z SL	-		16 55 41.0	3.0	2.32	3		
-E Z SL	PPP		16 56 11.0	1.5	1.11	3		
+E Z SL	PCPPKP		17 04 49.0	1.3	1.78	2		
-E Z SL	SKKP		17 04 57.0	1.5	1.11	4		
-E Z SL	PPS		17 05 25.0	1.5	1.11	3		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BUH	E Z GT	PKP	16 51 25.-				14210 127.8	45.4 331.7
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AUG 05 USCGS  
 H= 17 44 01.1  
 LAT = 20.6 S  
 LONG= 169.4 E  
 DEPTH= 66 KM  
 MAGNITUDE= 4.7  
 NEW HEBRIDES ISLANDS

GRF	+E Z BE	PKP	18 03 35.4				16260 146.2	38.7 334.3
	E Z BE	-	18 03 47.4					

BNS	E Z FS	PKP	18 03 36.0			2	16310 146.7	31.3 339.5
	E Z FS	-	18 03 47.5					

FUR	-E Z SL	PKP	18 03 38.0	1.7	1.56	3	16390 147.4	40.3 332.5
	-I Z SL	PKP2	18 03 40.0	1.5	1.36	2		
	+I Z SL	APKP	18 03 51.0	1.5	1.36	2		
	-E Z SL	-	18 04 49.0	1.5	1.08	1		

BUH	+E Z GT	PKP	18 03 40.5				16480 148.2	35.0 336.1
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AUG 05 USCGS  
 H= 18 18 19.6  
 LAT = 29.9 N  
 LONG= 140.8 E  
 DEPTH=124 KM  
 MAGNITUDE= 4.2  
 SOUTH OF HONSHU, JAPAN

FUR	+E Z SL	P	18 31 08.0	1.5	0.90	3	10010 90.1	42.0 328.9
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AUG 06 USCGS  
 H= 00 38 42.8  
 LAT = 61.4 N  
 LONG= 150.7 W  
 DEPTH= 53 KM  
 MAGNITUDE= 4.8  
 SOUTHERN ALASKA

FUR	+E Z SL	P	00 49 49.0	1.5	0.70	2	7770 69.8	350.9 12.7
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AUG 06 USCGS  
 H= 15 41 50.4  
 LAT = 10.8 N  
 LONG= 43.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 NORTH ATLANTIC RIDGE

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 06 HCIS  
 H= 15 41 49.0  
 LAT = 11.0 N  
 LONG= 43.0 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC RIDGE

BUH	E Z GT	P	15 51 38.-	0.9	1.65	3	6330 56.9	246.5 38.2
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BNS	+I Z FS	P	15 51 36.5	2.3	2.04	3	6370 57.3	244.1 35.4
	E Z FS	S	15 59 30.-					
	E Z FS	LR	16 08 00.-					

FUR	+I Z SL	P	15 51 46.0	1.6	1.49	8	6520 58.6	249.5 39.7
	-I Z SL	AP	15 51 54.0	1.5	1.23	2		
	-I Z SL	XP	15 51 58.0	1.5	1.23	2		
	-I Z SL	-	15 52 23.0	1.5	1.52	2		
	-E Z SL	PCP	15 52 34.0	1.5	0.90	1		
	+I Z SL	APCP	15 52 42.0	1.5	1.23	2		
	-I Z SL	XPCP	15 52 51.0	1.5	1.23	2		
	-E Z SL	PPP	15 55 18.0	1.5	0.90	5		

GRF	+E Z BE	P	15 51 52.4				6580 59.1	248.6 38.0
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AUG 06  
 NO DETERMINATION OF EPICENTER

BNS	E E X	SG	22 53 33.-	1.5	1.70	2		
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AUG 07 USCGS  
 H= 01 49 33.2  
 LAT = 5.3 S  
 LONG= 154.1 E  
 DEPTH=116 KM  
 MAGNITUDE= 5.2  
 SOLOMON ISLANDS

FUR	-E Z SL	APKP	02 08 46.0	1.5	0.70	1	14100 126.8	48.8 329.6
	+E Z SL	XPKP	02 08 56.0	1.5	0.90	5		

AUG 07 USCGS  
 H= 06 46 08.3  
 LAT = 52.2 N  
 LONG= 158.9 E  
 DEPTH= 69 KM  
 MAGNITUDE= 5.1  
 NEAR EAST COAST OF KAMCHATKA

GRF	+I Z HE	P	06 57 43.8	0.8	1.99	6	8320 74.8	19.9 338.9
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BUH	+I Z GT	P	06 57 52.7	0.8	1.82		8500 76.4	18.0 340.5
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 07 USCGS  
H= 15 32 02.5  
LAT = 45.2 N  
LONG= 148.3 E  
DEPTH=152 KM  
MAGNITUDE= 4.5  
KURIL ISLANDS

GRF	E Z BE	P	15 43 47.6				8710 78.4	29.5 333.1
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AUG 08 USCGS  
H= 06 30 57.1  
LAT = 36.4 N  
LONG= 70.9 E  
DEPTH=198 KM  
MAGNITUDE= 5.8  
HINDU KUSH REGION

AUG 08 BCIS  
H= 06 31 10.0  
LAT = 36.5 N  
LONG= 70.5 E  
DEPTH=320 KM  
NO MAGNITUDE COMPUTED  
HINDU KUSH REGION

GRF	+I Z BE	P	06 38 50.4	1.2	2.10	8	4940 44.4	83.9 306.8
	-I Z BE	AP	06 39 33.6					
	+E Z BE	-	06 42 29.7					

FUR	-I Z SL	P	06 38 50.0	1.8	2.82	9	4960 44.6	82.4 304.6
	+I Z SL	AP	06 39 32.0	1.9	2.89	5		
	-I Z SL	XP	06 39 54.0	1.5	2.07	2		
	+I Z SL	PP	06 40 38.0	2.0	2.61	9		
	-I Z SL	APP	06 41 17.0	1.3	2.90	9		
	+I Z SL	-	06 42 11.0	2.5	2.86	2		

HAM	E Z SX	P	06 38 54.-			5	5000 44.9	86.8 312.3
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STU	-I Z BE	P	06 39 01.8	0.9	2.97	7	5100 45.9	81.7 305.8
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HEI	+E Z ST	P	06 39 02.3	1.6	3.17	9	5120 46.1	82.0 306.7
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HLG	N X	P	06 39 00.-	1.4	2.49	1	5130 46.1	85.9 313.4
	E Z X	P	06 39 03.1	1.4	2.88	4		
	+I E X	P	06 39 03.5	1.4	2.73	3		
	E E X	XP	06 39 43.9	1.4	2.83	4		
	+I Z X	XP	06 39 46.7	1.4	2.91	5		
	E E X	S	06 45 36.3	2.0	2.63	1		

TNS	I	P	06 39 05.0				5130 46.2	82.6 307.9
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KRL	+E Z ST	P	06 39 04.9	2.0	3.23	5	5150 46.3	81.4 306.2
	+I E ST	-	06 39 06.5					

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BUH	+I Z GT	P	06 39 05.6	1.9	3.16	9	5170 46.5	80.9 305.8
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FEL	+E Z ST	P	06 39 07.5	2.1	2.61	9	5200 46.8	80.1 304.7
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BNS	+I Z FS	P	06 39 08.2	2.0	2.84	9	5210 46.9	82.4 309.0
	I Z FS	AP	06 39 52.0					
	E FS	S	06 45 16.-					

AUG 08 USCGS  
H= 11 08 14.8  
LAT = 47.7 S  
LONG= 15.8 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.9  
SOUTH ATLANTIC RIDGE

FUR	-E Z SL	P	11 21 51.0	1.8	1.65	4	10940 98.4	198.1 17.9
	-E Z SL	XP	11 22 06.0	1.5	1.18	2		
	-I Z SL	-	11 25 59.0	1.5	1.08	4		
	-E Z SL	PPP	11 27 15.0	1.5	0.90	3		

GRF	E Z BE	P	11 21 59.2				11100 99.8	198.1 17.4
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BNS	E Z SL	-	11 25 44.-				11150 100.3	195.5 14.5
	E Z SL	-	11 35 05.-					
	E SL	LP	11 56 00.-					

AUG 08 USCGS  
H= 20 02 36.6  
LAT = 35.9 N  
LONG= 10.7 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.2  
NORTH ATLANTIC OCEAN

AUG 08 BCIS  
H= 20 02 34.0  
LAT = 35.9 N  
LONG= 10.5 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTH ATLANTIC OCEAN

FUR	-E Z SL	P	20 07 14.0	1.5	0.90	1	2260 20.3	240.9 46.1
	+E Z SL	PP	20 07 29.0	4.0	2.23	5		

GRF	E Z BE	P	20 07 21.3				2340 21.1	237.4 42.3
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AUG 1969				358	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 08 USCGS								
H= 20 44 21.0								
LAT = 6.1 S								
LONG= 129.7 E								
DEPTH=196 KM								
MAGNITUDE= 5.9								
BANDA SEA								
HAM	E Z SX	-	21 02 28.-			1	12490 112.3	68.9 325.9
	E Z SX	PKP	21 02 35.-			1		
GRF	E Z BE	P	20 58 44.-				12550 112.9	71.5 321.7
	-E Z BE	PKP	21 02 20.3					
	-E Z BE	-	21 02 36.3					
	-E Z BE	PP	21 02 57.6					
	E Z BE	PPP	21 05 33.-					
	E Z BE	PKKP	21 13 26.5					
FUR	-E Z SL	P	20 58 46.0	1.5	0.85	3	12600 113.3	72.2 320.1
	+I Z SL	PKP	21 02 37.0	1.5	1.08	2		
	+I Z SL	APKP	21 03 31.0	1.8	1.93	3		
	+I Z SL	PP	21 03 36.0	1.5	1.83	6		
	+I Z SL	XPKP	21 03 51.0	1.5	1.52	4		
	+I Z SL	-	21 04 18.0	1.5	1.76	7		
	+I Z SL	APP	21 04 23.0	1.5	1.52	2		
	+I Z SL	XPP	21 04 45.0	1.5	1.52	1		
	-I Z SL	SKP	21 05 52.0	1.5	1.52	3		
	+E Z SL	-	21 07 11.0	1.9	1.79	2		
	+E Z SL	SP	21 12 46.0	4.0	2.83	4		
	+I Z SL	-	21 13 51.0	3.0	2.55	2		
STU	-E Z BE	PKP	21 02 39.0	1.0	2.97	4	12720 114.4	70.2 321.2
KRL	+E Z ST	PKP	21 02 40.2	0.8	2.10	2	12770 114.8	69.4 321.7
BNS	E Z FS	PP	21 02 39.-				12770 114.8	67.5 324.0
	E Z FS	-	21 03 32.-					
	I FS	-	21 12 56.-					
BUH	+I Z GT	PKP	21 02 39.9	0.9	1.63		12790 115.1	69.4 321.4
AUG 09 USCGS								
H= 05 17 36.8								
LAT = 19.8 S								
LONG= 178.0 W								
DEPTH=571 KM								
MAGNITUDE= 5.1								
FIJI ISLANDS REGION								
GRF	+E Z BE	PKP	05 36 22.6	1.0	1.38	2	16600 149.2	17.2 348.3
FUR	-E Z SL	PKP	05 36 25.0	1.5	1.08	4	16760 150.7	18.1 347.3
	-E Z SL	PKP2	05 36 35.0	1.5	1.11	8		

AUG 1969				359	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 09								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	09 13 30.0	1.5	0.90	2		
	+E Z SL	-	09 13 49.0	1.7	1.60	5		
	+E Z SL	-	09 14 18.0	1.5	1.00	2		
AUG 09 USCGS								
H= 09 21 07.0								
LAT = 44.2 N								
LONG= 11.9 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.1								
NORTHERN ITALY								
AUG 09 BCIS								
H= 09 21 03.0								
LAT = 44.0 N								
LONG= 12.0 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
NORTHERN ITALY								
USCGS= FELT AT FLORENCE AREA.								
FUR	+E Z SL	PN	09 22 09.0	1.5	1.11	8	440 4.0	173.8 354.2
	+I Z SL	PB	09 22 21.0	1.5	1.00	1		
	-I Z SL	PG	09 22 36.0	1.5	1.23	2		
	-I Z SL	SN	09 22 55.0	1.5	1.23	2		
	-I Z SL	SB	09 23 07.0	1.2	2.14	1		
	-I Z SL	SG	09 23 15.0	1.5	1.52	2		
	Z SL	MAXIMUM	09 24 20.0	1.8	2.53			
BUH	-I Z GT	P	09 22 23.7	0.5	1.44	4	570 5.1	149.1 331.7
KRL	+E Z ST	P	09 23 14.4	0.6	2.00	2	590 5.3	152.2 334.7
GRF	E Z BE	P	09 22 28.8				610 5.5	175.1 355.5
BNS	E Z FS	PN	09 23 03.-				830 7.4	153.0 336.4
	E Z FS	-	09 24 27.-					
	E FS	-	09 25 08.-					
AUG 09								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	09 48 47.0	1.5	0.90	3		
	-E Z SL	-	09 48 55.0	1.5	0.90	3		

AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

AUG 09 USCGS  
 H= 13 28 31.9  
 LAT = 27.7 N  
 LONG= 33.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 UNITED ARAB REPUBLIC

FUR +E Z SL P 13 34 10.0 1.5 0.70 1 2990 26.9 131.5 325.6  
 -E Z SL AP 13 34 18.0 1.5 0.90 2  
 +E Z SL XP 13 34 21.0 1.5 0.90 3

AUG 09 USCGS  
 H= 13 40 01.1  
 LAT = 4.6 N  
 LONG= 62.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 CARLSBERG RIDGE

FUR -E Z SL P 13 50 16.0 1.4 1.43 6 6840 61.5 117.9 323.6  
 -E Z SL PCP 13 50 51.0 1.5 1.43 3

GRF E Z HE P 13 50 21.2 6920 62.3 118.6 325.1

AUG 09 USCGS  
 H= 16 25 35.2  
 LAT = 42.4 N  
 LONG= 19.4 E  
 DEPTH= 25 KM  
 MAGNITUDE= 5.0  
 YUGOSLAVIA

AUG 09 BCIS  
 H= 16 25 36.0  
 LAT = 42.3 N  
 LONG= 19.2 E  
 DEPTH= 50 KM  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

USCGS= FELT IN THE REGION OF TITograd.

FUR +I Z SL PN 16 27 34.0 1.5 1.08 7 910 8.2 132.2 318.0  
 +I Z SL PR 16 27 54.0 1.5 1.76 2  
 +I Z SL PG 16 28 27.0 1.5 1.70 2  
 -I Z SL SN 16 29 11.0 1.5 1.83 2  
 +I Z SL SR 16 29 38.0 1.5 1.92 3  
 -I Z SL SG 16 30 00.0 1.5 1.96 3  
 Z SL MAXIMUM 16 31 10.0 1.5 2.48

GRF -E Z HE P 16 27 49.2 0.8 1.32 3 1030 9.3 139.0 324.9

AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

STU -E Z HE PN 16 27 52.5 0.5 1.48 3 1070 9.6 127.9 315.2

FEL E Z ST PN 16 27 54.5 1.0 1.57 4 1080 9.8 120.1 308.2

BUH -I Z GT P 16 27 58.8 4 1120 10.1 124.6 312.6

KRL +E Z ST P 16 28 02.4 1.0 1.80 2 1130 10.2 126.6 314.5

TNS E P 16 28 13.0 1210 10.9 131.8 319.7  
 E S 16 30 13.0

BNS E Z FS PN 16 28 28.8 1.3 1.70 2 1340 12.0 130.9 319.8  
 E Z FS SN 16 30 36.-  
 E FS - 16 30 40.-  
 E Z X SG 16 32 00.- 2.6 2.59  
 E Z X LR 16 32 55.-  
 X MAXIMUM 16 33 35.- 14.0

HAM E Z SX - 16 32 46.- 1 1420 12.8 146.4 333.5  
 E Z SX - 16 32 27.- 4

AUG 09 USCGS  
 H= 17 01 01.3  
 LAT = 42.2 N  
 LONG= 19.3 E  
 DEPTH= 20 KM  
 MAGNITUDE= 4.6  
 YUGOSLAVIA

AUG 09 BCIS  
 H= 17 01 04.0  
 LAT = 42.3 N  
 LONG= 19.2 E  
 DEPTH= 50 KM  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

FUR -E Z SL PN 17 03 03.0 1.3 1.78 6 910 8.2 133.6 319.3  
 +E Z SL PG 17 03 23.0 1.5 1.00 1  
 -I Z SL - 17 03 36.0 1.5 1.40 3  
 -E Z SL SN 17 04 48.0 1.5 1.43 3  
 -I Z SL SR 17 05 15.0 1.5 1.40 2  
 +I Z SL SG 17 05 39.0 1.8 2.15 3  
 Z SL MAXIMUM 17 06 20.0 1.8 2.49

GRF -E Z HE P 17 03 17.0 1040 9.3 140.1 325.9  
 -I Z HE - 17 03 24.4

BUH E Z GT P 17 03 26.3 2 1120 10.1 125.7 313.6

BNS E Z FS PN 17 04 02.8 1340 12.0 131.9 320.6  
 E Z FS SN 17 06 02.-  
 E FS SG 17 07 47.5 2.4 2.08



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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 10 USCGS

H= 05 02 00.7

LAT = 22.0 N

LONG= 94.4 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.9

BURMA

GRF	E Z BE	P	05 13 32.6				7700 69.3	80.2 316.4
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AUG 10 USCGS

H= 15 41 48.5

LAT = 8.4 N

LONG= 57.8 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 5.0

CARLSBERG RIDGE

FUR	-E Z SL	P	15 51 25.0	1.4	1.96	9	6190 55.7	119.6 324.0
	+E Z SL	XP	15 51 36.0	1.5	1.00	1		

BNS	E Z FS	P	15 51 50.-	1.5	1.30	2	6600 59.4	117.2 325.4
	E Z FS	-	15 52 08.-					

AUG 10 USCGS

H= 21 16 24.7

LAT = 44.0 N

LONG= 12.1 E

DEPTH= 33 KM

MAGNITUDE= 4.0

NORTHERN ITALY

AUG 10 BCIS

H= 21 16 00.0

LAT = 44.0 N

LONG= 12.0 E

NO DEPTH COMPUTED

NO MAGNITUDE COMPUTED

NORTHERN ITALY

FUR	+E Z SL	PR	21 17 43.0	1.6	0.60	2	470 4.2	171.9 352.5
	-E Z SL	SR	21 18 26.0	1.5	1.00	2		
	+E Z SL	SG	21 18 41.0	1.5	1.11	4		
	Z SL	MAXIMUM	21 19 38.0	1.5	1.30			

BUM	E Z GT	P	21 17 45.-			3	600 5.4	148.8 331.6
	E N GT	-	21 17 55.5	0.6	1.73			

GRF	E Z BE	P	21 17 52.2				640 5.7	173.6 354.2
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BNS	E Z FS	-	21 19 46.5				860 7.7	152.6 336.2
	E Z FS	-	21 20 38.5					

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 10 BCIS

H= 21 24 00.0

LAT = 44.0 N

LONG= 12.0 E

NO DEPTH COMPUTED

NO MAGNITUDE COMPUTED

NORTHERN ITALY

GRF	E Z BE	P	21 26 15.-				640 5.7	174.3 354.9
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AUG 11

NO DETERMINATION OF EPICENTER

GRF	I Z BE	PG	12 59 08.0					
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	E N BE	SG	12 59 34.0					
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AUG 11 USCGS

H= 13 33 04.1

LAT = 1.0 N

LONG= 28.5 W

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 5.0

CENTRAL MID-ATLANTIC RIDGE

FUR	+I Z SL	P	13 42 58.0	1.5	1.26	9	6470 58.2	228.9 30.3
	-E Z SL	PCP	13 43 49.0	1.5	1.11	3		
	-E Z SL	APCP	13 43 55.0	1.5	1.11	2		

BNS	E Z FS	P	13 42 58.5				6470 58.2	223.3 25.7
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GRF	-E Z BE	P	13 43 04.7	1.0	1.56	3	6580 59.2	228.1 28.9
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AUG 11 USCGS

H= 13 55 12.3

LAT = 43.2 N

LONG= 12.4 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.6

CENTRAL ITALY

AUG 11 BCIS

H= 13 55 09.0

LAT = 43.2 N

LONG= 12.2 E

NO DEPTH COMPUTED

NO MAGNITUDE COMPUTED

CENTRAL ITALY

USCGS= 4 INJURED AND DAMAGE IN PERUGIA AREA.

FUR	-I Z SL	PN	13 56 29.0	1.5	1.23	9	560 5.0	170.2 351.0
	-I Z SL	PR	13 56 38.0	1.6	1.30	2		

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
-I Z SL	SN		13	57	25.0	1.5	1.62	5				
+I Z SL	SH		13	57	41.0	1.5	1.62	1				
-I Z SL	SG		13	57	51.0	1.5	1.83	3				
Z SL	MAXIMUM		13	58	27.0	1.5	2.40					
FEL	E Z ST	P	13	56	35.8	0.5	1.44	3	620	5.6	144.7	327.8
STU	-E Z BE	P	13	56	41.0	0.9	1.64	3	670	6.0	156.6	339.0
BUH	+I Z GT	P	13	56	42.8	0.5	1.60	6	690	6.2	150.2	333.2
KRL	E Z ST	P	13	57	03.-	0.8	2.14	2	720	6.4	152.7	335.6
GRF	-E Z BE	P	13	56	48.0	0.8	1.47	4	730	6.5	172.1	353.0
BNS	E Z X	PN	13	57	16.0	0.5	1.48	2	950	8.5	153.1	337.0
	E N X	SN	13	58	50.5							
	E X	SG	13	59	57.5							

AUG 11 USCGS  
 H= 20 16 35.0  
 LAT = 20.1 N  
 LONG = 64.3 W  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.9  
 NORTH ATLANTIC OCEAN

FUR	-E Z SL	P	20	27	20.0	1.6	1.00	5	7320	65.8	273.4	45.3
	-E Z SL	AP	20	27	29.0	1.2	1.74	4				

AUG 11  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	20	34	17.6							
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AUG 11  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	20	37	22.0	1.5	0.90	3				
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AUG 11  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	20	40	22.6							
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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
AUG 11	USCGS											
H=	20 46	41.6										
LAT =	19.9 N											
LONG =	64.3 W											
DEPTH =	10 KM											
MAGNITUDE =	5.0											
VIRGIN ISLANDS												
GRF	+E Z BE	P	20	57	31.0				7320	65.8	272.5	43.6
FUR	-E Z SL	P	20	57	33.0	1.5	0.90	5	7330	66.0	273.3	45.2

AUG 11 USCGS  
 H= 21 02 15.0  
 LAT = 44.0 N  
 LONG = 147.7 E  
 DEPTH = 22 KM (GEOPHYSICIST)  
 MAGNITUDE = 4.2  
 KURIL ISLANDS

USCGS = FORESHOCK.

GRF	E Z BE	P	21	14	22.4				8810	79.2	30.4	332.9
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AUG 11 USCGS  
 H= 21 07 57.8  
 LAT = 44.0 N  
 LONG = 147.8 E  
 DEPTH = 20 KM (GEOPHYSICIST)  
 MAGNITUDE = 4.5  
 KURIL ISLANDS

USCGS = FORESHOCK.

GRF	+E Z BE	P	21	20	04.2				8820	79.3	30.3	333.0
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AUG 11 USCGS  
 H= 21 21 47.3  
 LAT = 43.7 N  
 LONG = 147.6 E  
 DEPTH = 20 KM (GEOPHYSICIST)  
 MAGNITUDE = 4.6  
 KURIL ISLANDS

USCGS = FORESHOCK.

GRF	+E Z BE	P	21	33	54.9	0.9	1.11	2	8840	79.5	30.6	332.9
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366  
 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

AUG 11 USCGS  
 H= 21 26 37.6  
 LAT = 43.4 N  
 LONG= 147.9 E  
 DEPTH= 43 KM  
 MAGNITUDE= 5.7  
 KURIL ISLANDS

USCGS= FELT AT NEMURO, THIS EVENT, WHICH WAS PRECEDED BY AT LEAST 5 TELESEISMIC FORESHOCKS IN 25 HOURS, WAS THE INITIAL SHOCK OF A SERIE OF CLUSTERED WUAKES OF SUCCESSIVELY LARGER MAGNITUDE WHICH OCCURED WITHIN AN INTERVAL OF ABOUT 63 SECONDS.

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.
HAM	+I Z SX	P	21 38 27.2			4	8560 76.9	30.1 335.7
GRF	+I Z BE	P	21 38 43.1	1.2	2.15	9	8870 79.8	30.5 333.1
	-I Z BE	-	21 38 55.0					
BNS	+I Z FS	P	21 38 43.3	2.5	2.68	9	8890 80.0	28.0 336.0
FUR	-I Z SL	P	21 38 49.0	1.5	1.89	9	9020 81.1	30.4 332.2
	-I Z SL	PCP	21 38 55.0	1.5	1.40	8		
	-I Z SL	AP	21 38 59.0	1.5	1.76	7		
	N SL	MAXIMUM	22 02 00.0	20.0	4.99			
STU	+E Z BE	P	21 38 50.2	1.5	2.44	8	9040 81.3	29.1 333.8
KRL	-E Z ST	P	21 38 51.1	1.2	2.10	3	9040 81.3	28.6 334.3
BUH	+I Z GT	P	21 38 53.6	1.5	2.30	7	9080 81.7	28.5 334.3

AUG 11 USCGS  
 H= 21 27 25.8  
 LAT = 43.6 N  
 LONG= 147.8 E  
 DEPTH= 14 KM  
 MAGNITUDE= 5.9  
 KURIL ISLANDS

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.
GRF	-I Z BE	P	21 39 35.5	1.1	2.35	5	8860 79.7	30.5 333.0
BNS	+I Z FS	P	21 39 35.3	1.6	2.36	9	8870 79.8	28.0 335.9
STU	+I Z BE	P	21 39 42.2	1.3	3.72	4	9020 81.1	29.1 333.7
KRL	-E Z ST	P	21 39 52.4				9020 81.2	28.6 334.3
BUH	+I Z GT	P	21 39 44.5	1.5	1.99		9060 81.5	28.5 334.2

367  
 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

AUG 11 USCGS  
 H= 21 27 36.0  
 LAT = 43.5 N  
 LONG= 147.8 E  
 DEPTH= 45 KM  
 MAGNITUDE= 6.2  
 KURIL ISLANDS

USCGS= THE COMPUTED LOCATIONS OF THESE THREE LESSER SHOCKS MAY BE A MORE ACCURATE INDICATION OF THE LOCATION OF THE FOLLOWING MAIN EVENT THAN THE COMPUTED COORDINATES, DUE TO THE PAUCITY OF ASSOCIATED DATA.

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.
HLG	-I Z X	P	21 39 28.-	1.6	3.61	9	8550 76.8	28.8 337.1
	E N X	P	21 39 28.-	1.6	2.90	2		
HAM	E Z SX	P	21 39 26.-			9	8550 76.9	30.1 335.7
GRF	I Z BE	P	21 39 43.-				8870 79.7	30.5 333.0
	E Z BE	-	21 46 36.5					
	+I Z BE	-	21 48 13.8	0.8	2.10	5		
	-I Z BE	-	21 48 23.9					
	E N BE	S	21 49 44.-					
	-I Z BE	-	21 50 28.4	0.8	1.80	1		
TNS	E	P	21 39 47.0				8910 80.2	28.7 334.9
	I	S	21 49 47.0					
FUR	+I Z SL	P	21 39 42.0	1.5	1.62	2	9010 81.0	30.4 332.2

AUG 11 USCGS  
 H= 21 27 39.4  
 LAT = 43.5 N  
 LONG= 147.4 E  
 DEPTH= 28 KM  
 MAGNITUDE= 7.1  
 KURIL ISLANDS

USCGS= DAMAGE ON SHIKOTAN, SOUTHERN KURIL ISLANDS, FELT WIDELY ON HOKKAIDO AND ON HONSHU AT LEAST AS FAR AS TOKYO, 1100 KM TO THE SOUTHWEST. TSUNAMI HEIGHTS (CHEST TO THROUGH IN METERS): NEMURO 2.60, URAKAWA 1.32, HACHINOME 1.10, MIDWAY 0.49, KAHULUI, HAWAII 0.42, WAKE ISLAND 0.24, NOT MORE THAN ONE METER IN KURILS.

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.
HLG	E N X	P	21 39 35.-	1.6	3.55	9	8530 76.7	29.1 336.9
	+I E X	P	21 39 35.6	1.8	3.67	7		
	N X S	S	21 49 11.0	9.0	4.77	3		
	+I E X	S	21 49 11.9	3.4	3.84	4		
HOF	E / WI	S	21 49 32.0				8760 78.8	31.3 332.7
	E / WI	SP	21 50 16.0	10.0	4.30	5		
	/ WI	MAXIMUM	22 19 00.0	30.0	6.63			
BOC	+E Z B4	P	21 39 43.2	0.8	2.71	2	8810 79.2	28.3 335.9
	+I E B4	S	21 49 38.0	2.5	4.31	9		

AUG 1969				368	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	+I Z SL	P	21 39 41.0				8860 79.7	28.2 335.7
	I Z SL	-	21 39 42.5	1.5	3.70			
	E SL	-	21 48 13.-					
	E SL	S	21 49 44.5	3.3	4.07			
	N SL	MAXIMUM	22 19 35.-	15.0	5.70			
	SL	MAXIMUM	22 21 00.-	16.0	5.84			
FUR	-I Z SL	P	21 39 47.0	1.5	2.15	4	8990 80.8	30.7 331.9
AUG 11 USCGS								
H= 21 40 55.4								
LAT = 43.8 N								
LONG= 147.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 6.0								
KURIL ISLANDS								
HLG	E Z X	P	21 52 45.-	1.6	4.45	2	8500 76.4	28.8 336.9
GRF	+E Z BE	P	21 53 00.0				8820 79.3	30.6 332.8
	+E Z BE	-	21 55 25.3	0.8	1.78	1		
	+E Z BE	-	21 59 50.1	0.8	1.65	1		
	+E Z BE	-	22 01 22.0	1.0	1.48	2		
	+E Z BE	PS	22 03 51.4	1.4	2.00	4		
	-I Z BE	-	22 04 05.2					
	-I Z BE	-	22 06 03.3	0.8	1.47	5		
AUG 11 USCGS								
H= 21 55 35.3								
LAT = 44.0 N								
LONG= 145.7 E								
DEPTH= 66 KM								
MAGNITUDE= 5.5								
HOKKAIDO, JAPAN REGION								
GRF	+E Z BE	P	22 07 31.9	1.2	1.80	3	8740 78.6	31.7 331.8
	-I Z BE	-	22 07 34.6	0.9	1.73	7		
	+E Z BE	-	22 07 53.3					
	-I Z BE	AP	22 08 05.1					
	-E Z BE	-	22 09 59.0					
	-E Z BE	PP	22 11 07.3					
AUG 11 USCGS								
H= 22 01 17.9								
LAT = 43.5 N								
LONG= 147.3 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.3								
KURIL ISLANDS								
GRF	+E Z BE	P	22 13 22.6	1.0	1.61	4	8840 79.5	30.9 332.7
	-E Z BE	PP	22 16 18.1					

AUG 1969				369	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	E Z BE	-	22 19 58.0					
	E Z BE	-	22 21 52.0					
AUG 11 USCGS								
H= 22 10 51.5								
LAT = 43.7 N								
LONG= 148.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.3								
KURIL ISLANDS REGION								
GRF	-I Z BE	P	22 22 58.6	0.8	1.65	6	8880 79.8	30.0 333.4
AUG 11 USCGS								
H= 22 15 43.9								
LAT = 44.2 N								
LONG= 148.4 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.8								
KURIL ISLANDS								
GRF	+E Z BE	P	22 27 49.9				8820 79.3	29.9 333.3
	E Z BE	-	22 32 08.2					
	E Z BE	-	22 34 05.7					
	E Z BE	-	22 36 36.0					
AUG 11 USCGS								
H= 22 27 44.7								
LAT = 42.7 N								
LONG= 147.4 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.0								
OFF COAST OF HOKKAIDO, JAPAN								
GRF	+E Z BE	P	22 39 53.6	1.0	1.38	3	8930 80.3	31.1 332.9
	-E Z BE	-	22 40 04.9					
	-I Z BE	PPP	22 45 54.6	1.2	1.80	6		
	-E Z BE	-	22 47 05.6	1.4	1.70	3		
	E Z BE	-	22 48 40.5					
AUG 11 USCGS								
H= 22 42 00.3								
LAT = 42.7 N								
LONG= 147.2 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.1								
OFF COAST OF HOKKAIDO, JAPAN								
GRF	-I Z BE	P	22 54 09.5	0.9	1.41	4	8920 80.2	31.3 332.7
	+I Z BE	-	22 54 22.8	1.0	1.78	3		



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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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+E Z BE	PP		22 55 56.6	0.8	1.25	3		
+E Z BE	PPP		23 00 19.1					
+E Z BE	-		23 01 39.7					
+E Z BE	-		23 03 09.0	1.2	1.80	3		
E Z BE	S		23 04 24.4					

AUG 11 USCGS  
H= 22 54 00.4  
LAT = 44.0 N  
LONG = 148.3 E  
DEPTH = 59 KM  
MAGNITUDE = 5.4  
KURIL ISLANDS

HAM	+I Z SX	P	23 05 46.6			5	8510 76.5	29.5 335.9
GRF	+I Z BE	P	23 06 02.0	1.1	1.88	8	8830 79.4	30.0 333.3
	E Z BE	PP	23 09 22.9					
	E Z BE	PPP	23 11 00.3					
	E Z BE	-	23 12 12.7					
STU	+E Z BE	P	23 06 09.3	1.0	2.18	9	8990 80.9	28.6 334.0
BUH	+I Z GT	P	23 06 14.6	1.0	1.99		9040 81.3	27.9 334.5

AUG 11 USCGS  
H= 23 02 53.8  
LAT = 43.1 N  
LONG = 147.8 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.5  
KURIL ISLANDS

GRF	-I Z BE	P	23 15 02.6	1.4	2.30	9	8910 80.1	30.7 333.1
	E Z BE	-	23 15 15.4					
	E Z BE	-	23 23 02.7					
	E Z BE	-	23 24 26.0					
BNS	E Z FS	P	23 15 02.0	1.2	2.28	9	8920 80.3	28.1 336.0
FUR	+I Z SL	P	23 15 10.0	1.5	1.40	3	9050 81.4	30.7 332.2
	+I Z SL	APCP	23 15 21.0	1.5	1.62	4		
STU	+E Z BE	P	23 15 09.2	1.0	2.18	9	9070 81.6	29.3 333.7
KRL	-E Z ST	P	23 15 10.5	1.5	2.30	2	9070 81.6	28.8 334.3
BUH	+I Z GT	P	23 15 11.3			4	9110 82.0	28.7 334.3

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 11 USCGS  
H= 23 14 51.1  
LAT = 43.4 N  
LONG = 147.6 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.0  
KURIL ISLANDS

GRF	E Z HE	P	23 26 58.4				8870 79.8	30.7 332.9
FUR	+E Z SL	P	23 27 06.0	1.6	1.08	3	9010 81.1	30.6 332.1

AUG 11 USCGS  
H= 23 16 46.3  
LAT = 43.0 N  
LONG = 146.4 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.7  
KURIL ISLANDS

GRF	E Z BE	P	23 28 53.6				8860 79.7	31.7 332.3
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AUG 11 USCGS  
H= 23 19 00.2  
LAT = 43.4 N  
LONG = 146.3 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.1  
KURIL ISLANDS REGION

GRF	-I Z BE	P	23 31 08.7				8890 80.0	30.2 333.3
	+I Z BE	-	23 31 13.4	1.2	2.20	4		
FUR	-I Z SL	P	23 31 15.0	1.5	1.40	3	9040 81.3	30.1 332.5
	-I Z SL	AP	23 31 28.0	1.5	1.52	4		

AUG 11 USCGS  
H= 23 21 43.1  
LAT = 43.4 N  
LONG = 147.5 E  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.2  
KURIL ISLANDS

HAM	E Z SX	P	23 33 34.-			2	8550 76.9	30.3 335.5
	I Z SX	-	23 33 46.1			4		
GRF	-E Z HE	P	23 33 50.4	1.2	1.64	3	8870 79.7	30.8 332.9
BNS	E Z FS	P	23 34 02.-	1.2	1.96	6	8890 79.9	28.2 335.8



AUG 1969 AUG 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

FUR +I Z SL P 23 33 57.0 1.5 1.23 2 9010 81.0 30.7 332.0
+I Z SL AP 23 34 07.0 1.5 1.62 3

AUG 11 USCGS
H= 23 24 31.3
LAT = 43.0 N
LONG= 147.3 E
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 4.8
KURIL ISLANDS

GRF -E Z BE P 23 36 50.6 8900 80.0 31.1 332.8

AUG 11 USCGS
H= 23 34 08.4
LAT = 43.3 N
LONG= 148.0 E
DEPTH= 32 KM
MAGNITUDE= 5.1
KURIL ISLANDS REGION

GRF +E Z BE P 23 46 15.9 1.0 1.75 4 8890 79.9 30.5 333.1
+I Z BE - 23 46 28.4 1.2 2.10 2

AUG 11 USCGS
H= 23 36 15.0
LAT = 44.5 N
LONG= 147.4 E
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 4.9
KURIL ISLANDS

GRF E Z BE P 23 48 15.4 8750 78.7 30.3 332.7
-I Z BE - 23 49 01.3 0.6 1.24 2

AUG 11 USCGS
H= 23 39 29.0
LAT = 42.9 N
LONG= 146.7 E
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 5.0
OFF COAST OF HOKKAIDO, JAPAN

GRF E Z BE P 23 51 36.7 8890 79.9 31.6 332.5

AUG 1969 AUG 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH
ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

AUG 11 USCGS
H= 23 42 03.5
LAT = 43.7 N
LONG= 147.8 E
DEPTH= 43 KM
MAGNITUDE= 5.6
KURIL ISLANDS

HAM E Z SX P 23 53 53.- 7 8530 76.7 30.0 335.7

GRF E Z BE P 23 54 07.3 8850 79.6 30.5 333.0
-E Z BE - 00 00 16.6 1.0 1.31 2

BNS I Z FS P 23 54 08.8 1.5 1.90 4 8870 79.7 27.9 335.9

FUR -I Z SL P 23 54 15.0 1.8 1.93 8 8990 80.9 30.4 332.2
-I Z SL AP 23 54 25.0 1.5 1.40 3

AUG 11 USCGS
H= 23 48 48.9
LAT = 43.7 N
LONG= 147.9 E
DEPTH= 33 KM (NORMAL)
MAGNITUDE= 5.3
KURIL ISLANDS

GRF -I Z BE P 00 00 55.3 1.1 1.70 4 8850 79.6 30.4 333.1
-E Z BE - 00 04 09.6

BNS E Z FS P 00 00 55.- 8860 79.7 27.8 336.0

AUG 11 USCGS
H= 23 52 56.9
LAT = 1.7 N
LONG= 125.5 E
DEPTH= 34 KM
MAGNITUDE= 6.1
MOLUCCA PASSAGE

HAM E Z SX P 00 06 59.- 1 11570 104.1 67.2 326.5

GRF E Z HE P 00 07 02.0 2.4 2.34 2 11650 104.7 69.2 322.6
E Z HE - 00 10 14.0

FUR +I Z SL P 00 07 05.0 2.0 2.12 3 11700 105.2 69.6 321.1

BNS E Z FS P 00 07 11.- 2.5 2.11 3 11860 106.6 65.5 324.9
E Z FS - 00 10 22.-
E FS S 00 17 51.-

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
H= 00 15 29.4  
LAT = 43.7 N  
LONG= 147.7 E  
DEPTH= 29 KM  
MAGNITUDE= 5.3  
KURIL ISLANDS

GRF	-E Z BE	P	00 27 33.8	1.2	1.64	3	8840 79.5	30.5 333.0
	E Z BE	PP	00 30 05.8					

AUG 12 USCGS  
H= 00 19 09.3  
LAT = 43.1 N  
LONG= 146.7 E  
DEPTH= 63 KM  
MAGNITUDE= 4.5  
KURIL ISLANDS

GRF	E Z BE	P	00 31 12.7				8870 79.8	31.5 332.5
	E Z BE	-	00 32 33.9					

AUG 12 USCGS  
H= 00 25 45.4  
LAT = 44.5 N  
LONG= 148.7 E  
DEPTH= 36 KM  
MAGNITUDE= 5.1  
KURIL ISLANDS

GRF	-I Z BE	P	00 37 48.9	1.1	1.80	6	8800 79.2	29.5 333.4
	E Z BE	-	00 38 01.1					

BNS	E Z FS	P	00 37 49.-	1.0	1.48	2	8810 79.3	27.0 336.4
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FUR	+I Z SL	P	00 37 54.0	1.5	1.23	2	8950 80.5	29.5 332.6
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BUH	+I Z GT	P	00 37 57.7	1.0	1.30	4	9010 81.0	27.5 334.7
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AUG 12 USCGS  
H= 00 47 30.3  
LAT = 1.8 N  
LONG= 126.2 E  
DEPTH= 54 KM  
MAGNITUDE= 4.9  
MOLUCCA PASSAGE

FUR	+E Z SL	PKP	01 05 49.0	1.5	1.23	9	11680 105.0	69.8 321.1
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BUH	E Z GT	PKP	01 05 51.-			3	11870 106.7	67.2 322.3
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
H= 00 53 36.0  
LAT = 43.4 N  
LONG= 147.3 E  
DEPTH= 30 KM  
MAGNITUDE= 5.0  
KURIL ISLANDS

GRF	-I Z BE	P	01 05 43.1	1.1	1.54	3	8860 79.7	30.9 332.8
	E Z BE	-	01 07 37.4					
	E Z BE	-	01 13 47.6					

BNS	E Z FS	P	01 05 43.8	1.2	1.48	2	8880 79.9	28.4 335.7
	E Z FS	-	01 05 54.-					

FUR	+E Z SL	P	01 05 49.0	1.8	1.71	9	9000 81.0	30.8 331.9
	-E Z SL	APCP	01 06 01.0	1.8	1.45	3		

AUG 12 USCGS  
H= 00 53 45.0  
LAT = 32.3 N  
LONG= 83.0 E  
DEPTH= 39 KM  
MAGNITUDE= 4.7  
TIBET

GRF	E Z BE	P	01 02 46.6				6090 54.8	79.8 311.0
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FUR	-E Z SL	P	01 03 15.0	1.5	0.90	5	6120 55.1	78.8 309.1
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BUH	E Z GT	P	01 04 27.-	1.5	1.50	3	6330 56.9	77.2 310.3
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AUG 12 USCGS  
H= 01 03 07.3  
LAT = 43.5 N  
LONG= 147.2 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
KURIL ISLANDS

GRF	E Z BE	P	01 15 12.0				8840 79.5	30.9 332.7
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BNS	E Z FS	P	01 15 15.0				8860 79.7	28.3 335.6
	E Z FS	-	01 15 25.0					

FUR	-E Z SL	P	01 15 19.0	1.5	0.90	5	8980 80.8	30.8 331.9
	-E Z SL	APCP	01 15 34.0	1.5	0.90	3		
	+E Z SL	XPCP	01 15 41.0	1.5	1.08	1		



AUG 1969

AUG 1969

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.

AUG 12 USCOS  
 H= 01 12 24.7  
 LAT = 44.0 N  
 LONG= 148.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	E Z BE	P	01 24 30.4				8830 79.4	30.1 333.1
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AUG 12 USCOS  
 H= 01 28 22.0  
 LAT = 43.0 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	-E Z BE	P	01 40 32.1	1.2	1.58	2	8920 80.2	30.9 333.0
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BNS	E Z FS	P	01 40 32.5				8930 80.4	28.3 335.9
	E Z FS	-	01 40 44.5	1.2	1.48			

FUR	+E Z SL	P	01 40 39.0	1.5	0.90	5	9060 81.5	30.8 332.2
	+E Z SL	APCP	01 40 52.0	1.5	1.00	3		

AUG 12 USCOS  
 H= 01 34 57.4  
 LAT = 43.7 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 KURIL ISLANDS

GRF	E Z BE	P	01 47 03.6				8840 79.5	30.7 332.8
	E Z BE	-	01 54 54.8					

FUR	-E Z SL	P	01 47 12.0	1.5	0.85	4	8980 80.8	30.6 332.0
	-E Z SL	AP	01 47 21.0	1.5	0.90	3		

AUG 12 USCOS  
 H= 01 54 34.9  
 LAT = 43.5 N  
 LONG= 148.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS REGION

GRF	E Z BE	P	02 06 45.9				8880 79.8	30.4 333.2
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AUG 1969

AUG 1969

STATION	COMP.	PHASE	TIME	PER.	LOG.	S/N	DISTANCE	AZIMUTH
ABBREV.	SEIS.		H M S		AMP.		KM DEG.	STAT. EPIC.

AUG 12 USCOS  
 H= 01 55 56.0  
 LAT = 43.7 N  
 LONG= 148.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	E Z BE	P	02 08 03.2				8870 79.7	30.2 333.3
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FUR	-E Z SL	P	02 08 12.0	1.5	0.90	5	9010 81.0	30.1 332.5
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AUG 12 USCOS  
 H= 02 06 41.7  
 LAT = 43.3 N  
 LONG= 147.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	E Z BE	P	02 18 51.9				8870 79.8	30.9 332.8
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AUG 12 USCOS  
 H= 02 19 21.8  
 LAT = 43.8 N  
 LONG= 148.4 E  
 DEPTH= 38 KM  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	E Z BE	P	02 31 27.4				8860 79.6	30.0 333.3
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FUR	-E Z SL	P	02 31 35.0	1.5	0.90	5	9000 80.9	29.9 332.5
	-E Z SL	XPCP	02 31 55.0	2.6	1.90	3		

AUG 12 USCOS  
 H= 02 28 42.1  
 LAT = 1.7 N  
 LONG= 126.5 E  
 DEPTH= 52 KM  
 MAGNITUDE= 5.2  
 MOLUCCA PASSAGE

GRF	E Z BE	P	02 43 21.9				11650 104.7	69.2 322.6
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 02 34 42.1  
 LAT = 43.0 N  
 LONG= 147.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS

GRF	E Z BE	P	02 46 52.2				8890 79.9	31.2 332.7
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AUG 12 USCGS  
 H= 02 36 51.5  
 LAT = 43.9 N  
 LONG= 148.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KURIL ISLANDS REGION

GRF	-E Z BE	P	02 48 57.7	1.0	1.31	2	8840 79.5	30.0 333.3
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BNS	E Z FS	P	02 48 57.5				8860 79.6	27.4 336.2
	E Z FS	-	02 49 08.5	1.8	1.60			

FUR	+E Z SL	P	02 49 05.0	1.3	1.85	7	8990 80.8	29.9 332.5
	+I Z SL	AP	02 49 15.0	1.5	1.40	2		
	-I Z SL	XPCP	02 49 24.0	1.8	1.60	1		

BUH	+E Z GT	P	02 49 06.5	1.0	1.30		9050 81.4	28.0 334.5
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AUG 12 USCGS  
 H= 03 09 08.7  
 LAT = 44.6 N  
 LONG= 148.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

GRF	-E Z BE	P	03 21 12.1	1.2	1.64	4	8780 79.0	29.6 333.3
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FUR	+E Z SL	P	03 21 18.0	1.5	0.85	4	8930 80.3	29.5 332.5
	+E Z SL	APCP	03 21 31.0	1.5	0.90	5		

AUG 12 USCGS  
 H= 03 18 45.7  
 LAT = 44.7 N  
 LONG= 148.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 KURIL ISLANDS

GRF	-E Z BE	P	03 30 47.8				8760 78.8	29.7 333.1
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	+E Z SL	P	03 30 56.0	1.5	0.90	5	8900 80.1	29.6 332.3
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AUG 12 USCGS  
 H= 03 30 22.5  
 LAT = 43.6 N  
 LONG= 148.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 KURIL ISLANDS REGION

GRF	E Z BE	P	03 42 29.5				8860 79.7	30.3 333.2
	E Z BE	-	03 43 40.6					

AUG 12 USCGS  
 H= 03 33 37.2  
 LAT = 43.1 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 KURIL ISLANDS

HAM	E Z SX	P	03 45 31.5			1	8590 77.2	30.4 335.6
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GRF	+E Z BE	P	03 45 46.0	1.2	1.58	3	8900 80.0	30.9 333.0
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BNS	E Z FS	P	03 45 46.0	2.0	1.85		8920 80.2	28.3 335.9
	E Z FS	-	03 46 10.8	2.8	2.36			

FUR	-E Z SL	P	03 45 51.0	2.0	2.09	8	9040 81.3	30.8 332.1
	-I Z SL	APCP	03 46 06.0	1.8	2.29	3		
	+I Z SL	XPCP	03 46 14.0	1.5	1.70	5		
	Z SL	MAXIMUM	04 27 30.0	13.0	4.85			

KRL	+E Z ST	P	03 45 53.5	1.4	2.30	2	9070 81.6	28.9 334.2
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BUH	+E Z GT	P	03 45 55.0	2.5	2.40	6	9110 81.9	28.8 334.2
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AUG 12 USCGS  
 H= 03 49 09.6  
 LAT = 43.6 N  
 LONG= 148.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS REGION

GRF	E Z BE	P	04 01 16.8				8870 79.8	30.3 333.2
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 03 58 19.9  
 LAT = 43.1 N  
 LONG= 148.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS REGION

GRF	E Z BE	P	04 10 32.2				8940 80.4	30.1 333.6
BNS	E Z FS	P	04 10 34.5				8950 80.5	27.5 336.5

AUG 12 USCGS  
 H= 04 12 52.2  
 LAT = 43.3 N  
 LONG= 146.7 E  
 DEPTH= 86 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	+E Z BE	P	04 24 51.7	0.8	1.25	3	8840 79.5	31.4 332.4
	E Z BE	-	04 33 14.6					

AUG 12 USCGS  
 H= 04 26 55.0  
 LAT = 43.6 N  
 LONG= 147.7 E  
 DEPTH= 66 KM  
 MAGNITUDE= 4.2  
 KURIL ISLANDS

GRF	E Z BE	P	04 38 57.2				8850 79.6	30.6 332.9
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AUG 12 USCGS  
 H= 04 29 08.7  
 LAT = 43.8 N  
 LONG= 147.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	E Z BE	P	04 41 15.0				8840 79.5	30.4 333.1
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 04 48 25.1  
 LAT = 43.0 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

GRF	-I Z BE	P	05 00 35.1	1.1	1.70	5	8920 80.2	30.8 333.1
BNS	E Z FS	P	05 00 35.-	1.2	1.48	2	8940 80.4	28.2 336.0
FUR	-E Z SL	P	05 00 40.0	1.5	0.90	3	9060 81.5	30.7 332.2
	+I Z SL	PCP	05 00 44.0	1.5	1.23	2		

AUG 12 USCGS  
 H= 04 53 36.5  
 LAT = 43.3 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.7  
 KURIL ISLANDS

GRF	-I Z BE	P	05 05 43.9	0.8	1.55	7	8870 79.8	30.8 332.9
	+E Z HE	-	05 05 56.2					
BNS	-I Z FS	P	05 05 44.5	1.2	2.00	6	8890 80.0	28.2 335.8
	I Z FS	-	05 05 56.-					
FUR	+I Z SL	P	05 05 50.0	1.5	1.73	9	9020 81.1	30.7 332.0
	+I Z SL	APCP	05 06 03.0	1.5	1.40	3		
	-I Z SL	XPCP	05 06 08.0	1.5	1.52	3		
STU	-E Z BE	P	05 05 51.1	1.0	2.19	9	9040 81.3	29.4 333.6
KRL	+E Z ST	P	05 05 52.4	1.4	2.50	2	9040 81.3	28.9 334.1
BUH	-I Z GT	P	05 05 53.3	1.3	2.20	9	9080 81.7	28.8 334.1

AUG 12 USCGS  
 H= 05 03 26.9  
 LAT = 43.6 N  
 LONG= 148.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.0  
 KURIL ISLANDS REGION

HLG	+I Z X	P	05 15 16.8	1.6	2.79	2	8540 76.8	28.6 337.2
	E E X	P	05 15 18.5	1.6	2.64	2		
HAM	+I Z SX	P	05 15 19.0			9	8540 76.8	29.9 335.8
GRF	+I Z BE	P	05 15 34.0	1.4	2.70	9	8860 79.7	30.4 333.1

AUG 1969

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	+I Z FS	P	05 15 34.0	1.3	2.77	9	8880 79.9	27.8 336.1
	I Z FS	-	05 15 45.-					
	I FS	S	05 25 33.5					
FUR	-I Z SL	P	05 15 40.0	1.5	2.18	9	9010 81.0	30.3 332.3
	+I Z SL	APCP	05 15 50.0	1.5	2.32	5		
	+I Z SL	XPCP	05 16 01.0	1.5	1.92	2		
	+I Z SL	PP	05 18 50.0	1.5	1.52	4		
	+I Z SL	APP	05 18 58.0	1.5	1.62	2		
	-I Z SL	XPP	05 19 04.0	1.5	1.40	4		
	-E Z SL	S	05 25 56.0	3.0	2.32	2		
	-E Z SL	SP	05 26 40.0	4.0	2.83	3		
	E SL	MAXIMUM	05 48 00.0	23.0	4.98			
	Z SL	MAXIMUM	05 56 00.0	17.0	4.56			
STU	+I Z BE	P	05 15 40.9	1.4	2.87	9	9030 81.2	29.0 333.8
BUH	-I Z GT	P	05 15 43.1	1.4	2.70	9	9070 81.6	28.3 334.4
	E Z GT	-	05 15 56.5					
RAV	+I Z ST	P	05 15 45.5	1.7	2.94	7	9110 81.9	29.2 333.1
FEL	+I Z ST	P	05 15 47.2	1.5	2.56	9	9150 82.3	28.1 334.1
AUG 12 USCGS								
H= 05 08 59.0								
LAT = 43.2 N								
LONG= 147.0 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.4								
KURIL ISLANDS								
GRF	-I Z BE	P	05 21 06.1	1.2	2.03	4	8870 79.7	31.2 332.6
BNS	I Z FS	P	05 21 08.5				8890 79.9	28.6 335.5
FUR	+I Z SL	P	05 21 13.0	1.5	1.23	5	9010 81.0	31.1 331.8
	-I Z SL	APCP	05 21 25.0	1.6	1.30	9		
AUG 12 USCGS								
H= 05 53 28.2								
LAT = 43.7 N								
LONG= 148.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.4								
KURIL ISLANDS REGION								
HAM	E Z SX	P	06 05 20.-			3	8550 76.9	29.5 336.0
GRF	+E Z BE	P	06 05 35.0	1.0	1.78	6	8870 79.8	30.0 333.4
BNS	I Z FS	P	06 05 35.0	1.2	2.30	9	8880 79.9	27.4 336.3
	E Z FS	-	06 05 48.-					
	E FS	S	06 15 38.0					

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-E Z SL	P	06 05 41.0	1.6	1.65	9	9010 81.1	29.9 332.6
	+I Z SL	APCP	06 05 54.0	1.5	2.03	3		
KKL	+E Z ST	P	06 05 51.5				9030 81.2	28.1 334.7
BUH	+I Z GT	P	06 05 44.3	1.2	1.90	3	9070 81.6	27.9 334.6
AUG 12 USCGS								
H= 06 00 16.4								
LAT = 43.2 N								
LONG= 147.3 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.4								
KURIL ISLANDS								
GRF	E Z BE	P	06 12 23.1				8870 79.8	31.0 332.8
AUG 12 USCGS								
H= 06 38 49.0								
LAT = 43.1 N								
LONG= 147.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.3								
KURIL ISLANDS								
GRF	-E Z BE	P	06 50 57.3	0.8	1.65	3	8890 80.0	31.0 332.9
BNS	E Z FS	P	06 51 57.5	1.2	1.48	2	8910 80.1	28.4 335.8
	E Z FS	-	06 51 11.-					
FUR	-I Z SL	P	06 51 04.0	1.5	1.30	6	9040 81.3	30.9 332.0
	-I Z SL	APCP	06 51 17.0	1.5	1.08	4		
BUH	-E Z GT	P	06 51 06.5	1.2	1.70	3	9100 81.8	28.9 334.1
AUG 12 USCGS								
H= 06 49 30.3								
LAT = 42.9 N								
LONG= 146.7 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.6								
OFF COAST OF HOKKAIDO, JAPAN								
GRF	-E Z BE	P	07 01 37.9	0.8	1.35	3	8880 79.8	31.6 332.4
FUR	+E Z SL	P	07 01 44.0	1.5	0.90	5	9020 81.1	31.5 331.6
	-E Z SL	XPCP	07 02 04.0	1.2	1.84	3		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 07 03 45.2  
 LAT = 43.2 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	-E Z BE	P	07 15 53.8	0.8	1.43	3	8880 79.9	30.8 332.9
	E Z BE	PP	07 19 02.3					
BNS	E Z FS	P	07 15 53.5	1.0	1.30	2	8900 80.0	28.2 335.8
	E Z FS	-	07 16 06.3					
FUR	+E Z SL	P	07 16 03.0	1.5	0.90	5	9030 81.2	30.7 332.1
	+E Z SL	AP	07 16 10.0	1.5	1.00	6		

AUG 12 USCGS  
 H= 07 10 41.4  
 LAT = 43.7 N  
 LONG= 147.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

GRF	-I Z BE	P	07 22 47.9	1.0	1.61	4	8860 79.6	30.4 333.1
BNS	I Z FS	P	07 22 48.0	1.0	1.48	2	8870 79.8	27.8 336.0
	E Z FS	-	07 22 57.2					
FUR	+E Z SL	P	07 22 55.0	1.5	1.23	9	9000 80.9	30.3 332.3
	-E Z SL	XP	07 23 09.0	1.6	1.30	5		
BUH	-I Z GT	P	07 22 57.5	1.0	1.70	4	9060 81.5	28.3 334.3

AUG 12 USCGS  
 H= 07 38 10.7  
 LAT = 43.9 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	+E Z BE	P	07 50 15.7	1.0	1.31	2	8820 79.3	30.4 332.9
FUR	+E Z SL	P	07 50 23.0	1.5	1.00	3	8970 80.6	30.3 332.1

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 07 54 51.0  
 LAT = 42.6 N  
 LONG= 146.6 E  
 DEPTH= 62 KM  
 MAGNITUDE= 4.7  
 OFF COAST OF HOKKAIDO, JAPAN

FUR	-E Z SL	P	08 07 03.0	1.5	0.90	3	9060 81.4	31.7 331.6
	-E Z SL	XP	08 07 18.0	1.6	1.08	3		

AUG 12 USCGS  
 H= 09 21 07.8  
 LAT = 43.1 N  
 LONG= 147.3 E  
 DEPTH= 32 KM  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	E Z BE	P	09 33 16.2				8880 79.9	31.0 332.8
	E Z BE	-	09 35 44.6					

AUG 12 USCGS  
 H= 09 25 38.7  
 LAT = 43.1 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

HAM	E Z SX	P	09 37 31.-			3	8580 77.2	30.4 335.6
GRF	+E Z BE	P	09 37 46.9	1.2	1.80	3	8900 80.0	30.9 332.9
	-E Z BE	-	09 38 00.6					
BNS	+I Z FS	P	09 37 47.5	1.5	2.25	8	8910 80.2	28.3 335.8
	E Z FS	-	09 37 59.-					
	E Z FS	-	09 38 23.5					
FUR	-I Z SL	P	09 37 53.0	1.5	1.76	9	9040 81.3	30.8 332.1
	-I Z SL	-	09 38 44.0	2.4	2.13	5		
	+I Z SL	-	09 39 07.0	1.6	1.30	5		
STU	+E Z BE	P	09 37 53.7	1.0	2.22	6	9060 81.5	29.5 333.6
KHL	-E Z ST	P	09 37 53.-				9060 81.5	29.0 334.2
BUH	+I Z GT	P	09 37 56.5	1.4	2.10	6	9100 81.9	28.8 334.1

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 09 33 43.2  
 LAT = 43.6 N  
 LONG= 147.5 E  
 DEPTH= 34 KM  
 MAGNITUDE= 5.6  
 KURIL ISLANDS

HAM	E Z SX	P	09 45 32.-			4	8530 76.7	30.3 335.5
GRF	-I Z BE	P	09 45 49.1	0.8	1.71	7	8850 79.6	30.7 332.8
	+E Z BE	-	09 45 58.3					
BNS	-I Z FS	P	09 45 49.5	1.2	1.90	5	8870 79.7	28.2 335.8
	I Z FS	-	09 45 58.3					
	I FS	-	09 46 02.8					
FUR	+I Z SL	P	09 45 56.0	1.3	2.18	8	8990 80.9	30.6 332.0
	-I Z SL	PCP	09 46 01.0	1.4	1.83	2		
	+E Z SL	AP	09 46 05.0	1.4	1.89	2		
	+E Z SL	XP	09 46 10.0	1.3	1.95	1		
	+E Z SL	-	09 47 13.0	1.6	1.20	1		
STU	+E Z BE	P	09 45 56.2	1.0	2.15	5	9010 81.0	29.3 333.5
BUH	-I Z GT	P	09 45 58.5	1.2	2.00	7	9050 81.4	28.7 334.1

AUG 12 USCGS  
 H= 09 54 34.6  
 LAT = 43.0 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS

GRF	E Z BE	P	10 06 43.3				8900 80.0	31.0 332.9
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AUG 12 USCGS  
 H= 11 21 21.6  
 LAT = 43.9 N  
 LONG= 148.7 E  
 DEPTH= 29 KM  
 MAGNITUDE= 5.4  
 KURIL ISLANDS REGION

HAM	+I Z SX	P	11 33 12.9			7	8530 76.7	29.3 336.1
GRF	-I Z BE	P	11 33 27.9	0.6	1.43	3	8860 79.6	29.7 333.5
	-E Z BE	-	11 40 19.7					
BNS	+I Z FS	P	11 33 28.4	1.8	2.59	9	8870 79.8	27.1 336.5
	E E FS	S	11 43 29.0					
	E FS	LR	11 58 55.-					

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	P	11 33 35.0	1.5	1.88	9	9000 81.0	29.6 332.7
	+I Z SL	PCP	11 33 40.0	2.0	2.65	9		
	-I Z SL	-	11 33 47.0	1.5	1.62	3		
	-I Z SL	APCP	11 33 52.0	2.0	2.45	7		
	+I Z SL	XPCP	11 33 57.0	1.6	1.74	3		
	Z SL	MAXIMUM	11 46 00.0	15.0	4.19			

STU	E Z BE	P	11 33 34.5	1.0	2.40	8	9020 81.1	28.3 334.2
KRL	+E Z ST	P	11 33 37.2	1.2	2.39	3	9020 81.1	27.8 334.8
BUH	E Z GT	P	11 33 36.9				9060 81.5	27.7 334.8
	-E Z GT	-	11 33 38.2	1.2	2.30			

AUG 12 USCGS  
 H= 11 32 24.3  
 LAT = 43.2 N  
 LONG= 147.6 E  
 DEPTH= 10 KM  
 MAGNITUDE= 5.2  
 KURIL ISLANDS

GRF	-E Z BE	P	11 44 36.2				8890 79.9	30.9 332.9
FUR	+E Z SL	P	11 44 43.0	1.6	1.15	4	9030 81.2	30.8 332.1
	+E Z SL	XP	11 44 51.0	1.2	2.09	5		
	+E Z SL	XPCP	11 44 56.0	1.2	1.91	2		
	+I Z SL	-	11 45 07.0	1.6	1.30	3		
	+I Z SL	-	11 45 26.0	2.0	1.69	3		

AUG 12 USCGS  
 H= 11 34 02.0  
 LAT = 44.0 N  
 LONG= 149.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

GRF	E Z BE	P	11 46 09.0				8860 79.7	29.5 333.7
	E Z BE	-	11 55 28.0					

AUG 12  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	11 55 36.0	1.5	0.90	3		
	+E Z SL	-	11 55 57.0	1.6	1.00	3		
	+E Z SL	-	11 56 44.0	1.5	1.11	3		

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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AUG 12 USCGS  
 H= 11 56 54.9  
 LAT = 43.9 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

GRF	+E Z HE	P	12 08 59.4	1.4	1.78	2	8820	79.3	30.5 332.9
FUR	+E Z SL	P	12 09 06.0	1.6	1.20	4	8970	80.6	30.4 332.1
	-E Z SL	APCP	12 09 17.0	1.5	1.00	3			
BUH	E Z GT	P	12 09 09.0	1.0	1.50		9030	81.2	28.4 334.1

AUG 12 USCGS  
 H= 12 21 19.0  
 LAT = 1.7 N  
 LONG= 126.3 E  
 DEPTH= 30 KM  
 MAGNITUDE= 5.8  
 MOLUCCA PASSAGE

FUR	-E Z SL	P	12 35 26.0	1.5	1.08	4	11690	105.1	69.7 321.1
	-E Z SL	XP	12 35 40.0	1.6	1.15	2			

AUG 12 USCGS  
 H= 12 31 48.2  
 LAT = 42.9 N  
 LONG= 147.8 E  
 DEPTH= 40 KM  
 MAGNITUDE= 5.0  
 OFF COAST OF HOKKAIDO, JAPAN

GRF	-E Z HE	P	12 43 57.7				8920	80.2	30.8 333.0
BNS	E Z FS	P	12 43 41.6	1.2	1.78	4	8940	80.4	28.2 336.0
	E Z FS	-	12 43 57.--						
FUR	-E Z SL	P	12 44 05.0	1.6	1.08	2	9060	81.5	30.7 332.2
	+E Z SL	AP	12 44 15.0	1.6	1.43	3			

AUG 12 USCGS  
 H= 13 16 35.5  
 LAT = 43.5 N  
 LONG= 148.4 E  
 DEPTH= 33 KM  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	-E Z HE	P	13 28 44.5	1.0	1.31	2	8890	80.0	30.1 333.4
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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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FUR	+E Z SL	P	13 28 57.0	1.5	0.90	5	9040	81.3	30.1 332.6
	+E Z SL	AP	13 29 02.0	1.5	1.11	2			

AUG 12 USCGS  
 H= 13 18 06.2  
 LAT = 43.5 N  
 LONG= 148.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 KURIL ISLANDS REGION

HAM	+I Z SX	P	13 29 58.8			2	8560	76.9	29.9 335.8
GRF	+I Z HE	P	13 30 15.5	1.1	2.05	9	8870	79.8	30.4 333.1
	E Z HE	PPP	13 35 22.6						
	E Z HE	-	13 37 11.1						
	E Z HE	-	13 38 35.0						
BNS	+I Z FS	P	13 30 15.6	1.1	1.95	5	8890	80.0	27.8 336.1
	I Z FS	-	13 30 27.5	1.3	2.50				
	I FS	S	13 40 16.0						

FUR	-I Z SL	P	13 30 22.0	1.6	1.57	6	9020	81.1	30.3 332.3
	-I Z SL	PCP	13 30 29.0	1.6	1.69	1			
	+I Z SL	APCP	13 30 34.0	1.6	2.01	3			
	-I Z SL	-	13 30 50.0	1.5	1.52	3			
	Z SL	MAXIMUM	14 10 30.0	18.0	3.67				

STU	+E Z HE	P	13 30 22.8	1.3	2.65	9	9040	81.3	29.0 333.8
KHL	E Z ST	P	13 30 25.--				9040	81.3	28.5 334.4
BUH	E Z GT	P	13 30 24.3				9080	81.7	28.4 334.4
	E Z GT	-	13 30 35.8	1.3	2.50				

AUG 12 USCGS  
 H= 14 33 03.1  
 LAT = 43.7 N  
 LONG= 148.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS REGION

GRF	-E Z HE	P	14 45 16.3	0.8	1.17	2	8870	79.7	30.2 333.3
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AUG 12 USCGS  
 H= 15 00 26.1  
 LAT = 43.8 N  
 LONG= 148.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS REGION

AUG 1969				390	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	E Z BE	P	15 12 34.3				8870 79.8	29.7 333.6
AUG 12 USCGS H= 15 12 22.1 LAT = 43.2 N LONG= 147.5 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 KURIL ISLANDS								
GRF	E Z HE	P	15 24 30.4				8880 79.9	30.9 332.9
AUG 12 USCGS H= 15 25 53.3 LAT = 43.3 N LONG= 147.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.3 KURIL ISLANDS								
GRF	E Z HE	P	15 38 07.5				8880 79.9	30.8 332.9
FUR	-E Z SL	P	15 38 09.0	1.5	0.90	3	9030 81.2	30.7 332.1
	+E Z SL	APCP	15 38 21.0	1.2	1.74	4		
AUG 12 USCGS H= 15 28 01.4 LAT = 44.5 N LONG= 149.0 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.7 KURIL ISLANDS								
GRF	E Z HE	P	15 40 05.5				8800 79.2	29.3 333.6
BNS	E Z FS	P	15 40 05.0	1.5	1.48	2	8820 79.3	26.7 336.5
	E Z FS	-	15 40 19.5					
FUR	+I Z SL	P	15 40 13.0	1.3	1.95	9	8950 80.5	29.2 332.8
	-E Z SL	AP	15 40 21.0	1.5	1.11	4		
	-E Z SL	-	15 40 31.0	1.8	1.45	3		
AUG 12 NO DETERMINATION OF EPICENTER								
GRF	+E Z HE	P	16 02 01.3	0.8	1.32	2		
FUR	-E Z SL	P	16 02 07.0	2.0	1.61	3		
	+E Z SL	-	16 02 16.0	1.5	0.90	2		

AUG 1969				391	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 12 USCGS H= 16 43 36.8 LAT = 43.7 N LONG= 147.9 E DEPTH= 24 KM MAGNITUDE= 4.8 KURIL ISLANDS								
GRF	+E Z BE	P	16 55 44.9	1.2	1.58	2	8850 79.6	30.4 333.0
FUR	-E Z SL	P	16 55 51.0	1.6	1.00	5	8990 80.9	30.3 332.2
	-E Z SL	APCP	16 56 02.0	1.5	1.00	6		
AUG 12 USCGS H= 17 00 27.9 LAT = 43.9 N LONG= 148.1 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 KURIL ISLANDS REGION								
GRF	-E Z BE	P	17 12 33.3				8840 79.5	30.2 333.2
AUG 12 USCGS H= 17 08 37.3 LAT = 43.5 N LONG= 148.2 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 KURIL ISLANDS REGION								
GRF	E Z BE	P	17 20 44.8				8880 79.9	30.3 333.3
FUR	+E Z SL	P	17 20 52.0	1.4	0.95	2	9030 81.2	30.2 332.5
	+E Z SL	PCP	17 20 57.0	1.5	0.83	2		
AUG 12 USCGS H= 21 16 11.3 LAT = 42.9 N LONG= 146.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.4 OFF COAST OF HOKKAIDO, JAPAN								
HAM	+I Z SX	P	21 28 02.6			2	8570 77.1	31.2 335.1
GRF	+I Z RE	P	21 28 18.9	1.1	1.88	7	8880 79.9	31.7 332.4
BNS	+I Z FS	P	21 28 19.3	1.0	1.85	5	8900 80.1	29.1 335.3
	E Z FS	-	21 28 30.4					

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

FUR	-E Z SL	P	21	28	25.0	1.5	1.40	8	9020	81.1	31.6	331.5
	+E Z SL	PCP	21	28	32.0	1.2	1.84	3				
	-E Z SL	AP	21	28	34.0	1.8	1.93	3				
	-E Z SL	-	21	30	46.0	1.6	1.15	4				
STU	+E Z HE	P	21	28	26.3	1.0	2.11	8	9040	81.3	30.2	333.0
BUH	E Z GT	P	21	28	28.2	0.7	1.50		9090	81.7	29.6	333.6

AUG 12 USCGS

H= 21 56 31.4  
 LAT = 43.3 N  
 LONG = 147.4 E  
 DEPTH = 14 KM  
 MAGNITUDE = 4.8  
 KURIL ISLANDS

GRF	E Z BE	P	22	08	41.9				8870	79.8	30.9	332.8
FUR	+E Z SL	P	22	08	49.0	1.5	1.08	4	9020	81.1	30.8	332.0
	-E Z SL	APCP	22	09	01.0	1.5	1.00	6				

AUG 12 USCGS

H= 23 05 57.1  
 LAT = 43.3 N  
 LONG = 147.7 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.0  
 KURIL ISLANDS

GRF	E Z HE	P	23	18	04.3				8890	79.9	30.7	333.0
BNS	E Z FS	P	23	18	06.0	1.0	1.60	2	8900	80.1	28.1	335.9
	E Z FS	-	23	18	18.5							
FUR	+E Z SL	P	23	18	11.0	1.5	0.90	5	9030	81.2	30.6	332.2
	+E Z SL	-	23	18	14.0	1.4	1.36	3				
	-I Z SL	-	23	18	27.0	1.6	1.34	6				
BUH	E Z GT	P	23	18	14.1				9090	81.8	28.6	334.2
	E Z GT	-	23	18	29.5	1.3	1.90					

AUG 12 USCGS

H= 23 15 48.9  
 LAT = 43.3 N  
 LONG = 147.8 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.8  
 KURIL ISLANDS

GRF	-E Z BE	P	23	27	57.7	1.2	1.58	3	8880	79.9	30.6	333.1
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AUG 1969

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

BNS	E Z FS	P	23	28	11.0				2	8900	80.0	28.0	336.0
	E Z FS	-	23	28	21.-								
FUR	+E Z SL	P	23	28	04.0	1.5	0.90	5	9030	81.2	30.5	332.2	
	+E Z SL	XP	23	28	17.0	1.5	1.08	7					
	+E Z SL	-	23	28	27.0	1.5	1.08	7					
	Z SL	MAXIMUM	23	58	25.0	16.0	3.25						

AUG 12 USCGS

H= 23 40 37.8  
 LAT = 43.2 N  
 LONG = 147.4 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.0  
 KURIL ISLANDS

GRF	E Z BE	P	23	52	48.3				8880	79.9	30.9	332.8
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AUG 12 USCGS

H= 23 49 31.8  
 LAT = 44.3 N  
 LONG = 147.1 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.5  
 KURIL ISLANDS

GRF	E Z BE	P	00	01	32.6				8760	78.8	30.7	332.5
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AUG 13

NO DETERMINATION OF EPICENTER

FUR	-I Z SL	P	01	12	38.0	1.5	0.85	4				
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GRF	+E Z BE	P	01	13	03.7							
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AUG 13 USCGS

H= 01 37 29.1  
 LAT = 43.0 N  
 LONG = 147.7 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.0  
 KURIL ISLANDS

GRF	E Z BE	P	01	49	37.5				8910	80.2	30.9	333.0
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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 13 USCGS  
 H= 02 07 07.3  
 LAT = 43.8 N  
 LONG= 148.7 E  
 DEPTH= 35 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS REGION

GRF	-E Z BE	P	02 19 14.1	1.0	1.38	1	8870 79.8	29.8 333.5
BNS	E Z FS	P	02 19 14.-			2	8880 79.9	27.2 336.5
FUR	+E Z SL	P	02 19 21.0	1.5	1.08	4	9020 81.1	29.7 332.7
	-E Z SL	XP	02 19 34.0	1.6	1.40	2		
	-E Z SL	XPCP	02 19 39.0	1.8	1.71	2		
BUH	E Z GT	P	02 19 23.6	1.0	1.50		9080 81.6	27.8 334.8

AUG 13 USCGS  
 H= 02 28 06.1  
 LAT = 43.8 N  
 LONG= 148.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS REGION

GRF	E Z BE	P	02 40 12.5				8860 79.7	29.9 333.4
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AUG 13 USCGS  
 H= 03 29 14.1  
 LAT = 43.5 N  
 LONG= 147.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 KURIL ISLANDS

GRF	-E Z BE	P	03 41 20.3	0.8	1.83	9	8850 79.6	30.8 332.8
BNS	+I Z FS	P	03 41 21.0	1.0	1.85	5	8870 79.8	28.3 335.7
	E Z FS	-	03 41 34.0					
FUR	-I Z SL	P	03 41 27.0	1.5	1.40	9	9000 80.9	30.8 331.9
	-E Z SL	PCP	03 41 33.0	1.5	1.52	2		
	+E Z SL	-	03 41 43.0	1.6	1.61	2		
	-E Z SL	-	03 41 53.0	1.5	1.34	7		
	-E Z SL	-	03 42 29.0	1.6	1.34	9		
STU	E Z BE	P	03 41 27.5	1.0	2.04	7	9010 81.1	29.4 333.5
KRL	+E Z ST	P	03 41 30.-				9020 81.1	28.9 334.0
BUH	-E Z GT	P	03 41 28.7	0.9	1.40		9060 81.5	28.8 334.0

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 13 USCGS  
 H= 03 47 14.2  
 LAT = 43.8 N  
 LONG= 148.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 KURIL ISLANDS REGION

GRF	E Z BE	P	03 59 20.8				8860 79.7	29.9 333.4
FUR	+E Z SL	P	03 59 28.0	1.5	0.85	2	9000 81.0	29.8 332.6
	+E Z SL	APCP	03 59 42.0	1.2	1.91	6		

AUG 13 USCGS  
 H= 04 06 03.8  
 LAT = 38.6 N  
 LONG= 21.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 GREECE

FUR	-E Z SL	PPP	04 09 14.0	2.6	1.90	3	1360 12.2	137.8 325.0
	-E Z SL	-	04 09 22.0	1.5	0.85	2		
	-E Z SL	-	04 09 34.0	1.6	1.00	3		
	+E Z SL	S	04 11 17.0	1.6	1.00	5		
	+E Z SL	SS	04 11 31.0	1.6	0.90	2		
	+E Z SL	SSS	04 11 45.0	1.5	1.00	2		
	+E Z SL	-	04 12 07.0	1.6	1.26	3		
	+E Z SL	-	04 12 47.0	1.6	1.30	5		
	Z SL	MAXIMUM	04 13 30.0	4.5	2.32			

GRF	E Z BE	P	04 09 13.4				1490 13.4	141.9 329.3
STU	E Z BE	P	04 09 14.5	0.7	1.87	7	1520 13.6	133.7 322.4
BUH	E Z GT	P	04 09 20.7				1560 14.0	131.0 320.3

AUG 13 USCGS  
 H= 04 28 18.0  
 LAT = 43.5 N  
 LONG= 148.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 KURIL ISLANDS REGION

GRF	-E Z BE	P	04 40 24.9	1.0	1.78	6	8870 79.8	30.4 333.1
BNS	E Z FS	P	04 40 25.-			2	8890 79.9	27.8 336.1
	E Z FS	-	04 40 38.-					
FUR	+E Z SL	P	04 40 31.0	1.5	0.90	5	9020 81.1	30.3 332.3
	+E Z SL	APCP	04 40 43.0	1.5	1.40	3		
	+E Z SL	-	04 41 32.0	1.6	1.08	2		

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	+E Z SL	-	04	41	50.0	1.5	0.90	5				
STU	E Z BE	P	04	40	37.1	0.9	2.13	3	9040	81.3	29.0	333.9
BUH	-E Z GT	P	04	40	34.5	0.9	1.40		9080	81.6	28.3	334.4
AUG 13 USCGS H= 04 43 48.7 LAT = 23.9 S LONG= 177.0 W DEPTH=380 KM MAGNITUDE= 4.3 SOUTH OF FIJI ISLANDS												
GRF	E Z BE	PKP	05	03	10.5				17060	153.4	17.1	348.0
AUG 13 USCGS H= 05 54 53.1 LAT = 43.9 N LONG= 147.7 E DEPTH= 34 KM MAGNITUDE= 4.8 KURIL ISLANDS												
GRF	+E Z BE	P	06	06	57.5	0.8	1.43	2	8830	79.4	30.4	333.0
AUG 13 USCGS H= 06 10 27.3 LAT = 43.8 N LONG= 147.7 E DEPTH= 63 KM MAGNITUDE= 4.7 KURIL ISLANDS												
GRF	E Z BE	P	06	22	28.7				8840	79.5	30.5	332.9
FUR	+E Z SL	P	06	22	36.0	1.6	1.00	3	8980	80.7	30.4	332.1
	-E Z SL	AP	06	22	45.0	1.5	0.90	5				
AUG 13 USCGS H= 07 24 05.1 LAT = 43.1 N LONG= 147.0 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.7 KURIL ISLANDS												
GRF	-E Z BE	P	07	36	12.5				8880	79.8	31.3	332.6
FUR	-E Z SL	P	07	36	20.0	1.3	1.70	5	9020	81.1	31.2	331.8

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	-I Z SL	AP	07	36	30.0	1.6	1.20	3				
AUG 13 USCGS H= 08 31 32.2 LAT = 44.0 N LONG= 147.7 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.6 KURIL ISLANDS												
HAM	E Z SX	P	08	43	21.-			3	8500	76.4	29.9	335.6
GRF	+E Z BE	P	08	43	36.4	1.0	2.00	9	8810	79.3	30.4	332.9
	E Z BE	-	08	44	03.2							
BNS	+I Z FS	P	08	43	36.6	1.2	2.63	9	8830	79.4	27.8	335.9
	E Z FS	S	08	53	24.-							
FUR	-I Z SL	P	08	43	43.0	1.5	1.83	9	8960	80.6	30.3	332.1
	+I Z SL	-	08	43	44.0	1.6	1.96	3				
	+I Z SL	AP	08	43	51.0	1.6	1.49	1				
	+I Z SL	APCP	08	43	57.0	1.5	1.57	2				
	Z SL	MAXIMUM	09	23	30.0	18.0	3.71					
KRL	+E Z ST	P	08	43	46.0	1.1	2.39	3	8980	80.8	28.5	334.2
BUH	+E Z GT	P	08	43	45.5				9020	81.1	28.3	334.2
	-E Z GT	-	08	43	47.4	1.2	2.60					
AUG 13 USCGS H= 09 20 34.0 LAT = 43.9 N LONG= 148.4 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 KURIL ISLANDS REGION												
GRF	E Z BE	P	09	32	41.5	1.0	1.38	2	8850	79.6	30.0	333.4
FUR	+E Z SL	P	09	32	45.0	1.4	1.15	2	9000	80.9	29.9	332.5
	+E Z SL	APCP	09	32	57.0	2.1	1.58	2				
	+E Z SL	XPCP	09	33	02.0	1.8	1.36	2				
	+E Z SL	-	09	33	09.0	1.8	1.23	2				
AUG 13 USCGS H= 10 07 13.9 LAT = 43.6 N LONG= 147.5 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.0 KURIL ISLANDS												

AUG 1969 398 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

GRF E Z BE P 10 19 21.7 8850 79.6 30.7 332.9

AUG 13 USCGS  
 H= 12 13 07.0  
 LAT = 43.2 N  
 LONG= 147.9 E  
 DEPTH= 14 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF -E Z BE P 12 25 17.6 1.0 1.61 5 8900 80.0 30.6 333.1  
 BNS E Z FS P 12 25 17.8 2 8920 80.2 28.0 336.0  
 FUR -E Z SL P 12 25 24.0 1.5 1.08 4 9040 81.3 30.5 332.3

AUG 13 USCGS  
 H= 12 30 48.3  
 LAT = 43.3 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF -E Z BE P 12 42 56.4 1.2 1.80 3 8890 79.9 30.7 333.0  
 BNS I Z FS P 12 42 57.0 2 8900 80.1 28.1 335.9  
 FUR -E Z SL P 12 43 03.0 1.5 1.08 4 9030 81.2 30.6 332.2  
 -E Z SL Ap 12 43 12.0 1.5 0.90 5  
 +E Z SL - 12 44 14.0 1.8 1.36 2

AUG 13  
 NO DETERMINATION OF EPICENTER

GRF E Z BE PG 12 44 28.6  
 E N BE Sg 12 44 50.6

AUG 13  
 NO DETERMINATION OF EPICENTER

GRF E Z BE P 13 49 33.9

AUG 13 USCGS  
 H= 14 28 46.5  
 LAT = 44.1 N  
 LONG= 148.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

AUG 1969 399 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

GRF E Z BE P 14 40 52.2 8830 79.4 29.8 333.4  
 FUR -E Z SL PCP 14 41 04.0 1.5 0.90 5 8980 80.7 29.7 332.6  
 -E Z SL XP 14 41 12.0 1.5 0.90 5

AUG 13 USCGS  
 H= 16 12 16.9  
 LAT = 48.5 N  
 LONG= 126.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 VANCOUVER ISLAND REGION

GRF E Z BE P 16 24 02.5 8410 75.6 332.5 26.8  
 FUR +E Z SL P 16 24 10.0 1.5 0.70 3 8560 77.0 332.7 27.5

AUG 13 USCGS  
 H= 17 07 13.8  
 LAT = 42.8 N  
 LONG= 146.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 OFF COAST OF HOKKAIDO, JAPAN

GRF -E Z BE P 17 19 22.7 8890 80.0 31.7 332.4  
 FUR -E Z SL XP 17 19 40.0 1.3 1.78 3 9040 81.3 31.6 331.6  
 +E Z SL XPCP 17 19 45.0 1.6 1.00 1

AUG 13 USCGS  
 H= 17 42 14.7  
 LAT = 44.0 N  
 LONG= 148.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF E Z BE P 17 54 20.2 8840 79.5 30.0 333.3

AUG 13 USCGS  
 H= 18 09 01.6  
 LAT = 44.2 N  
 LONG= 149.0 E  
 DEPTH= 40 KM  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF -E Z BE P 18 21 06.2 1.2 1.51 2 8840 79.5 29.5 333.6

AUG 1969 400 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

FUR -E Z SL P 18 21 13.0 1.4 1.26 2 8990 80.8 29.4 332.8

AUG 13  
 NO DETERMINATION OF EPICENTER

GRF E Z BE P 18 59 42.0

AUG 13 USCGS  
 H= 19 33 41.2  
 LAT = 43.9 N  
 LONG= 147.8 E  
 DEPTH= 73 KM  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

GRF +E Z BE P 19 45 41.4 0.9 1.51 4 8830 79.4 30.3 333.0

BNS +I Z FS P 19 45 41.3 1.2 1.78 3 8840 79.5 27.8 335.9

FUR +E Z SL P 19 45 47.0 1.5 1.26 9 8970 80.7 30.2 332.2

STU +E Z BE P 19 45 48.6 0.8 1.64 4 8990 80.8 28.9 333.7

BUH +E Z GT P 19 45 50.5 1.0 1.60 9030 81.2 28.3 334.2

AUG 13 USCGS  
 H= 21 12 50.8  
 LAT = 43.6 N  
 LONG= 148.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS REGION

GRF E Z BE P 21 24 58.7 8870 79.8 30.1 333.3

FUR -E Z SL P 21 25 10.0 1.5 0.90 5 9020 81.1 30.0 332.5

+E Z SL AP 21 25 18.0 1.6 0.90 4

AUG 13 USCGS  
 H= 22 42 07.9  
 LAT = 44.2 N  
 LONG= 149.2 E  
 DEPTH= 32 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF E Z BE P 22 54 13.4 8840 79.5 29.3 333.8

FUR -E Z SL P 22 54 20.0 1.5 0.90 5 8990 80.8 29.2 333.0

+E Z SL - 22 54 43.0 1.6 1.26 3

AUG 1969 401 AUG 1969  
 STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

AUG 13 USCGS  
 H= 22 57 07.4  
 LAT = 44.0 N  
 LONG= 148.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 KURIL ISLANDS

HAM +E Z SX P 23 08 56.- 6 8510 76.5 29.6 335.8

E Z SX AP 23 09 05.- 6

GRF +I Z BE P 23 09 12.3 1.2 2.21 9 8830 79.4 30.1 333.2

BNS +I Z FS P 23 09 12.5 1.5 2.55 9 8840 79.5 27.5 336.1

E E FS S 23 19 09.5

E FS SS 23 25 10.-

E Z FS LR 23 39 40.-

Z FS MAXIMUM 23 49 00.- 18.0

FUR -I Z SL P 23 09 19.0 1.5 1.92 9 8970 80.7 30.0 332.4

+I Z SL PCP 23 09 23.0 1.6 2.12 3

-I Z SL AP 23 09 24.0 1.6 2.12 2

-I Z SL XP 23 09 34.0 1.5 1.92 2

-I Z SL - 23 10 58.0 1.5 1.62 5

Z SL MAXIMUM 23 50 00.0 20.0 3.94

STU +I Z BE P 23 09 19.9 1.0 2.39 9 8990 80.8 28.7 333.9

KRL +E Z ST P 23 09 19.5 1.6 2.61 3 8990 80.9 28.2 334.5

BUH +E Z GT P 23 09 21.5 1.4 2.40 9030 81.2 28.0 334.4

FEL +I Z ST P 23 09 25.9 2.0 2.37 8 9120 82.0 27.8 334.2

AUG 13 USCGS  
 H= 23 12 57.9  
 LAT = 43.9 N  
 LONG= 148.5 E  
 DEPTH= 40 KM  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF -E Z BE P 23 25 02.4 0.9 1.41 4 8860 79.6 29.9 333.4

AUG 14 USCGS  
 H= 00 12 31.5  
 LAT = 42.9 N  
 LONG= 147.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 OFF COAST OF HOKKAIDO, JAPAN

GRF E Z BE P 00 24 42.7 8900 80.0 31.2 332.7

AUG 1969

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 14 USCGS  
 H= 00 29 32.3  
 LAT = 1.6 N  
 LONG= 126.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 MOLUCCA PASSAGE

FUR	+E Z SL	PKP	00 47 53.0	1.2	1.84	5	11700 105.2	69.9 321.0
	+E Z SL	PP	00 48 10.0	1.5	0.70	2		
	-E Z SL	-	00 48 16.0	1.8	1.60	7		

AUG 14 USCGS  
 H= 01 47 25.9  
 LAT = 43.6 N  
 LONG= 148.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS REGION

GRF	E Z BE	P	01 59 32.5				8880 79.9	30.0 333.5
FUR	+E Z SL	P	01 59 39.0	1.4	1.26	4	9030 81.2	29.9 332.6
	-E Z SL	-	01 59 43.0	1.3	1.70	3		
	-E Z SL	XP	01 59 51.0	1.5	0.90	5		

AUG 14 USCGS  
 H= 03 07 29.5  
 LAT = 43.0 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	E Z BE	P	03 19 38.3				8900 80.1	30.9 332.9
BNS	E Z FS	P	03 19 49.5	1.2	1.48	2	8920 80.3	28.3 335.8
FUR	+E Z SL	P	03 19 45.0	1.5	0.70	3	9050 81.4	30.9 332.1
	+E Z SL	PCP	03 19 50.0	1.5	0.70	2		
	+E Z SL	AP	03 19 54.0	1.5	0.70	3		
	-E Z SL	APCP	03 19 57.0	1.5	0.85	1		

AUG 14 USCGS  
 H= 04 47 54.3  
 LAT = 43.3 N  
 LONG= 147.8 E  
 DEPTH= 48 KM  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	P	04 59 59.7				8880 79.8	30.6 333.0
BNS	E Z FS	P	05 00 08.5			2	8900 80.0	28.1 335.9
FUR	+E Z SL	P	05 00 07.0	1.5	1.00	6	9020 81.1	30.6 332.2
	+E Z SL	AP	05 00 16.0	1.4	1.15	3		
	+E Z SL	XP	05 00 22.0	1.6	0.78	2		

AUG 14 USCGS  
 H= 05 41 29.1  
 LAT = 43.2 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.0  
 KURIL ISLANDS

GRF	E Z BE	P	05 53 37.5				8890 80.0	30.6 333.1
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AUG 14 USCGS  
 H= 06 06 39.9  
 LAT = 43.6 N  
 LONG= 149.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	-E Z BE	P	06 18 48.3				8890 80.0	29.7 333.7
FUR	+E Z SL	P	06 18 55.0	1.5	1.00	6	9040 81.3	29.6 332.9
	-E Z SL	APCP	06 19 07.0	1.5	1.00	6		
	-E Z SL	-	06 19 11.0	1.5	1.00	3		

AUG 14 USCGS  
 H= 08 59 49.6  
 LAT = 43.1 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	-E Z BE	P	09 11 58.4	1.2	1.58	2	8900 80.0	30.9 332.9
FUR	+E Z SL	P	09 12 05.0	1.5	1.08	7	9040 81.3	30.8 332.1

404

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 14 USCGS  
 H= 10 58 01.7  
 LAT = 5.4 S  
 LONG= 152.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 NEW BRITAIN REGION

FUR	-E Z SL	PKP	11 17 01.0	1.8	1.46	3	13990 125.8	51.0 326.5
	-E Z SL	APKP	11 17 09.0	1.5	1.00	3		
	-I Z SL	-	11 17 22.0	1.5	0.90	3		
	-E Z SL	PP	11 18 55.0	1.6	1.00	2		
	+E Z SL	APP	11 19 11.0	1.5	0.90	2		
	+E Z SL	XPP	11 19 18.0	1.6	1.00	2		
	-E Z SL	-	11 19 39.0	1.5	0.90	3		

BNS	E Z FS	PKP	11 17 02.5			2	14000 125.9	45.1 333.3
	E Z FS	-	11 17 19.-					

AUG 14 USCGS  
 H= 11 51 12.5  
 LAT = 43.1 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	+E Z BE	P	12 03 20.0	1.2	1.51	2	8900 80.0	30.9 332.9
FUR	-E Z SL	P	12 03 24.0	1.4	1.15	2	9040 81.3	30.9 332.1
	-E Z SL	PCP	12 03 32.0	1.5	0.85	4		
	+E Z SL	-	12 03 39.0	1.5	0.70	2		
	-E Z SL	-	12 03 49.0	1.5	0.70	2		
	+E Z SL	-	12 04 10.0	1.6	0.78	2		
	+E Z SL	-	12 04 13.0	1.6	0.78	2		
	+E Z SL	-	12 04 16.0	1.6	0.78	2		

AUG 14 USCGS  
 H= 12 16 14.6  
 LAT = 43.4 N  
 LONG= 148.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS REGION

GRF	E Z BE	P	12 28 21.6				8890 79.9	30.3 333.3
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AUG 14  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	13 00 11.8					
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405

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 14 USCGS  
 H= 14 19 01.6  
 LAT = 43.1 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.1  
 KURIL ISLANDS

HLG	+E Z X	P	14 30 53.1	1.0	2.85	9	8580 77.1	29.1 337.0
	E X	P	14 30 54.2	1.0	2.52	4		
	E N X	P	14 30 54.4	1.4	2.45	3		
	+I N X	PCP	14 31 12.8	1.4	2.92	7		
	E N X	S	14 40 39.4	4.9	3.33	2		
	E E X	S	14 40 40.4	4.9	3.34	1		

HAM	E Z SX	P	14 30 53.-			4	8580 77.2	30.5 335.6
	E N WI	S	14 40 42.-					

GRF	+E Z BE	P	14 31 09.9	1.0	1.91	8	8900 80.0	30.9 332.9
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BNS	+I Z FS	P	14 31 10.3	1.5	2.89	9	8920 80.2	28.3 335.8
	I N FS	S	14 41 13.5	2.5	2.85			
	E FS	LR	14 57 00.-	60.0				

TNS	I	P	14 31 12.0				8940 80.4	29.1 334.7
	I	S	14 41 13.0					
	I	SCS	14 41 37.0					

HEI	+E Z ST	P	14 31 14.7	0.9	3.23	9	9010 81.1	29.3 334.2
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FUR	-I Z SL	P	14 31 17.0	1.7	2.67	9	9040 81.3	30.9 332.1
	-I Z SL	AP	14 31 24.0	1.4	2.50	2		
	-I Z SL	XP	14 31 32.0	1.5	1.88	2		
	-I Z SL	XPCP	14 31 35.0	1.5	2.43	6		
	-I Z SL	-	14 32 03.0	1.5	2.27	6		
	Z SL	MAXIMUM	15 12 20.0	16.0	4.74			

STU	+E Z BE	P	14 31 16.8	1.0	3.00	9	9060 81.5	29.5 333.6
	+E N BE	S	14 41 26.0	14.0	3.80	9		

KRL	+E Z ST	P	14 31 17.4	1.9	2.91	3	9060 81.5	29.0 334.1
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BUH	+E Z GT	P	14 31 18.8	1.0	2.80		9100 81.9	28.9 334.1
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FEL	+E Z ST	P	14 31 23.5	1.0	2.50	9	9190 82.6	28.7 333.8
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AUG 14 USCGS  
 H= 14 38 16.4  
 LAT = 43.0 N  
 LONG= 147.9 E  
 DEPTH= 15 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GHF	E Z BE	P	14 50 27.7				8920 80.2	30.7 333.1
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AUG 1969

406

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E Z BE	-	14 50 40.2	1.0	1.61	3		
FUR	-E Z SL	P	14 50 31.0	1.8	1.60	3	9060 81.5	30.6 332.3

AUG 14 USCGS  
 H= 15 13 49.8  
 LAT = 43.0 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	E Z BE	P	15 25 58.5				8900 80.1	30.9 333.0
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AUG 14 USCGS  
 H= 15 27 53.2  
 LAT = 43.6 N  
 LONG= 147.6 E  
 DEPTH= 106 KM  
 MAGNITUDE= 3.9  
 KURIL ISLANDS

GRF	E Z BE	P	15 39 50.2				8850 79.6	30.6 332.9
FUR	+E Z SL	P	15 39 57.0	1.6	1.00	5	8990 80.9	30.5 332.1

AUG 14 USCGS  
 H= 15 38 18.2  
 LAT = 43.0 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	E Z BE	P	15 50 27.0				8910 80.1	30.9 333.0
	E Z BE	PPP	15 56 14.7					

AUG 14 USCGS  
 H= 16 27 37.8  
 LAT = 43.9 N  
 LONG= 148.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 KURIL ISLANDS REGION

GRF	+I Z BE	P	16 39 44.1	0.8	1.52	5	8850 79.6	30.0 333.3
FUR	-E Z SL	P	16 39 51.0	1.5	1.00	6	8990 80.9	29.9 332.5
	-E Z SL	XP	16 40 05.0	1.5	0.90	3		

407

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 14 USCGS  
 H= 16 58 40.1  
 LAT = 43.1 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	E Z BE	P	17 10 50.6				8900 80.0	30.8 333.0
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AUG 14 USCGS  
 H= 17 05 51.8  
 LAT = 43.0 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	E Z BE	P	17 18 00.3				8910 80.1	30.9 333.0
FUR	-E Z SL	P	17 18 08.0	1.6	0.90	4	9050 81.4	30.8 332.1

AUG 14 USCGS  
 H= 17 12 58.7  
 LAT = 44.0 N  
 LONG= 147.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.1  
 KURIL ISLANDS

GRF	E Z BE	P	17 25 03.6				8820 79.3	30.2 333.1
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AUG 14 USCGS  
 H= 17 51 18.5  
 LAT = 42.9 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 OFF COAST OF HOKKAIDO, JAPAN

GRF	E Z BE	P	18 03 29.5				8920 80.2	30.9 333.0
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AUG 14 USCGS  
 H= 18 21 36.5  
 LAT = 43.0 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

408

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	-E Z BE	P	18	33	45.2	0.8	1.17	2	8910	80.1	30.9	333.0
BNS	E Z FS	P	18	33	46.0			2	8930	80.3	28.3	335.9
FUR	+E Z SL	P	18	33	52.0	1.5	0.70	3	9050	81.4	30.8	332.1
	+E Z SL	Xp	18	34	04.0	1.6	1.08	3				
	+E Z SL	XPCP	18	34	10.0	1.6	1.08	5				

AUG 14 USCGS  
 H= 18 46 40.4  
 LAT = 43.3 N  
 LONG= 147.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	+E Z BE	P	18	58	51.2				8870	79.8	30.9	332.9
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AUG 14 USCGS  
 H= 20 15 41.8  
 LAT = 42.9 N  
 LONG= 147.5 E  
 DEPTH= 46 KM  
 MAGNITUDE= 4.6  
 OFF COAST OF HOKKAIDO, JAPAN

GRF	E Z BE	P	20	27	48.9				8910	80.1	31.0	332.9
BNS	E Z FS	P	20	27	49.-			2	8930	80.3	28.4	335.8

AUG 14 USCGS  
 H= 21 51 04.1  
 LAT = 39.6 N  
 LONG= 27.8 E  
 DEPTH= 21 KM  
 MAGNITUDE= 4.6  
 TURKEY

FUR	-E Z SL	AP	21	54	40.0	1.7	1.26	1	1630	14.7	119.7	311.2
	-E Z SL	XPP	21	54	55.0	1.6	1.00	3				
	+E Z SL	-	21	55	14.0	1.6	1.00	3				
	+E Z SL	PCP	21	59	35.0	2.0	1.69	3				
	-E Z SL	APCP	21	59	45.0	3.0	2.16	4				
	-E Z SL	XPCP	21	59	51.0	4.0	2.53	9				
GRF	E Z BE	P	21	54	49.7				1730	15.5	124.4	316.7
BUH	E Z GT	P	21	55	02.4				1860	16.7	115.7	309.4
KRL	E Z ST	P	21	55	07.-				1860	16.8	117.0	310.6

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

AUG 14 USCGS  
 H= 22 12 22.0  
 LAT = 43.9 N  
 LONG= 148.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 KURIL ISLANDS REGION

GRF	+E Z BE	P	22	24	28.4	1.0	1.45	3	8860	79.7	29.9	333.4
BNS	I Z FS	P	22	24	29.0	2.2	1.78	2	8870	79.8	27.3	336.4
FUR	-E Z SL	P	22	24	35.0	1.7	1.34	5	9000	81.0	29.8	332.6
	-E Z SL	PCP	22	24	41.0	1.6	1.15	4				
	-E Z SL	AP	22	24	45.0	1.2	1.91	2				
	+E Z SL	XP	22	24	48.0	1.6	1.20	8				
STU	+E Z BE	P	22	24	35.2	0.8	1.61	4	9020	81.1	28.5	334.2
BUH	E Z GT	P	22	24	37.7	0.9	1.50		9060	81.5	27.8	334.7

AUG 14 USCGS  
 H= 23 48 36.0  
 LAT = 52.2 N  
 LONG= 160.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 OFF EAST COAST OF KAMCHATKA

BNS	E Z FS	P	00	00	15.5			2	8320	74.8	16.6	342.9
	E Z FS	-	00	00	47.-							
GRF	+E Z BE	P	00	00	17.9				8370	75.2	19.0	340.0
FUR	+E Z SL	P	00	00	26.0	1.2	1.91	6	8520	76.7	18.9	339.4
	+E Z SL	XP	00	00	42.0	1.5	0.90	3				
	-E Z SL	APCP	00	00	51.0	1.2	1.91	6				

AUG 15 USCGS  
 H= 01 43 11.6  
 LAT = 9.5 N  
 LONG= 83.9 W  
 DEPTH= 9 KM  
 MAGNITUDE= 4.4  
 COSTA RICA

GRF	E Z BE	P	01	55	54.0				9580	86.1	280.0	40.4
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410

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 15 USCGS  
 H= 03 37 52.8  
 LAT = 3.5 S  
 LONG= 144.4 E  
 DEPTH= 22 KM  
 MAGNITUDE= 5.4  
 NEAR NORTH COAST OF NEW GUINEA

FUR	+E Z SL	PKP	03 56 46.0	1.8	1.36	4	13360 120.1	57.4 325.6
	-E Z SL	PP	03 58 17.0	1.4	1.51	2		
	+E Z SL	-	03 58 53.0	1.6	1.00	5		

AUG 15 USCGS  
 H= 04 32 00.4  
 LAT = 43.0 N  
 LONG= 147.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 KURIL ISLANDS

HAM	E Z SX	P	04 43 54.-			6	8600 77.3	30.2 335.8
	E Z SX	XP	04 44 06.-			6		

GRF	+I Z BE	P	04 44 09.4	1.4	2.20	7	8920 80.2	30.7 333.1
BNS	+I Z FS	P	04 44 09.8	1.0	2.28	9	8930 80.3	28.1 336.0
	+I Z FS	-	04 44 21.5	1.2	2.50			
	E N FS	S	04 54 14.-					
	E Z FS	LR	05 18 00.-					
	Z FS	MAXIMUM	05 24 00.-	16.0				

FUR	-I Z SL	P	04 44 16.0	1.6	1.77	9	9060 81.5	30.6 332.3
	+I Z SL	PCP	04 44 23.0	1.6	1.46	7		
	+I Z SL	XP	04 44 28.0	1.4	2.20	7		
	-I Z SL	-	04 44 41.0	1.6	1.71	3		
	-I Z SL	-	04 44 52.0	1.7	1.95	4		
	+I Z SL	-	04 45 05.0	1.5	1.60	4		
	+I Z SL	-	04 46 11.0	1.8	1.93	4		
	Z SL	MAXIMUM	05 24 40.0	15.0	3.63			

STU	+E Z BE	P	04 44 16.2	1.0	2.49	9	9080 81.6	29.3 333.8
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KRL	+E Z ST	P	04 44 17.8	1.2	2.39	2	9080 81.7	28.8 334.4
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BUH	+E Z GT	P	04 44 18.4	1.1	2.00		9120 82.0	28.6 334.3
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FEL	+E Z ST	P	04 44 23.6	1.2	1.93	6	9210 82.8	28.4 334.1
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AUG 15  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	04 52 23.8					
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411

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 15 USCGS  
 H= 06 18 36.5  
 LAT = 43.3 N  
 LONG= 147.8 E  
 DEPTH= 42 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	+E Z BE	P	06 30 43.2	0.8	1.25	2	8890 79.9	30.7 333.0
BNS	E Z FS	P	06 30 43.-	1.0	1.48	2	8910 80.1	28.1 336.0
FUR	-E Z SL	P	06 30 50.0	1.5	1.11	4	9030 81.2	30.6 332.2
	-E Z SL	AP	06 30 59.0	1.5	0.90	2		
	+E Z SL	XPCP	06 31 09.0	1.4	1.36	2		

AUG 15 USCGS  
 H= 07 15 37.0  
 LAT = 30.2 N  
 LONG= 95.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 TIBET

FUR	+I Z SL	P	07 26 11.0	1.5	1.23	5	7140 64.2	72.9 312.3
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AUG 15 USCGS  
 H= 07 21 47.6  
 LAT = 43.6 N  
 LONG= 148.5 E  
 DEPTH= 21 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS REGION

GRF	+E Z BE	P	07 33 55.9	0.8	1.47	2	8890 79.9	30.1 333.4
FUR	+E Z SL	P	07 34 04.0	1.8	1.36	1	9030 81.2	30.0 332.6
	+E Z SL	-	07 34 07.0	1.5	1.00	3		
	-E Z SL	XP	07 34 14.0	1.5	1.08	4		
BUH	E Z GT	P	07 34 04.9	0.8	1.30		9090 81.7	28.0 334.6

AUG 15 USCGS  
 H= 08 41 54.9  
 LAT = 21.6 N  
 LONG= 143.0 E  
 DEPTH= 319 KM  
 MAGNITUDE= 6.1  
 MARIANA ISLANDS REGION

HAM	-E Z SX	P	08 54 42.5			6	10560 95.0	43.0 334.0
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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
	E Z SX	PP	08	58	38.5			4				
GRF	+E Z HE	P	08	54	52.4	1.4	1.90	4	10800	97.2	44.3	330.8
	E Z HE	AP	08	56	07.8							
	+I Z HE	PP	08	58	54.4	1.0	2.08	5				
BNS	+I Z FS	P	08	54	55.2	1.5	2.18	7	10890	98.0	40.9	333.6
	E Z FS	-	08	55	34.-							
	E FS	-	08	58	58.-							
FUR	+I Z SL	P	08	54	57.0	1.6	1.94	9	10920	98.2	44.5	329.7
	-I Z SL	AP	08	56	09.0	1.8	1.79	1				
	-I Z SL	-	08	56	23.0	1.6	1.52	9				
	-I Z SL	XP	08	56	39.0	1.8	1.71	9				
	-I Z SL	PP	08	59	02.0	1.5	1.95	5				
	-I Z SL	-	08	59	37.0	1.8	2.13	2				
	-I Z SL	PPP	09	01	16.0	1.6	1.54	2				
	-I Z SL	-	09	02	24.0	1.6	1.30	2				
	-I Z SL	-	09	02	53.0	1.5	1.26	6				
	-E Z SL	PKKP	09	11	29.0	1.6	1.59	9				
STU	+E Z HE	P	08	54	59.0	1.7	2.78	9	10980	98.7	42.8	331.1
KHL	-E Z ST	P	08	55	01.5	1.2	2.49	3	11000	98.9	42.1	331.7
BUH	+E Z GT	P	08	55	00.8	1.6	2.00		11040	99.2	42.0	331.6

AUG 15 USCGS  
H= 09 48 00.1  
LAT = 43.9 N  
LONG= 147.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
KURIL ISLANDS

GRF	E Z HE	P	10	00	04.1				8810	79.3	30.5	332.8
	+I Z HE	AP	10	00	15.3	1.0	1.61	4				
BNS	E Z FS	P	10	00	05.0	1.0	1.60	2	8830	79.4	28.0	335.8
	E Z FS	-	10	00	15.5							
FUR	+I Z SL	P	10	00	11.0	1.5	1.08	7	8960	80.6	30.4	332.0
	-E Z SL	APCP	10	00	22.0	1.6	1.08	3				
BUH	E Z GT	P	10	00	12.3	1.0	1.30		9020	81.1	28.5	334.1

AUG 15 USCGS  
H= 10 02 17.9  
LAT = 43.1 N  
LONG= 148.3 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
KURIL ISLANDS REGION

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	-E Z HE	P	10	14	27.2	1.2			8920	80.2	30.4	333.3
	E Z HE	-	10	23	33.4							
BNS	E Z FS	P	10	14	31.5				8940	80.4	27.8	336.2
	E Z FS	-	10	14	42.-	1.5	1.60					
FUR	+I Z SL	P	10	14	35.0	1.6	0.90	4	9070	81.5	30.3	332.5
	-I Z SL	-	10	14	38.0	1.6	1.30	5				
	-I Z SL	XP	10	14	48.0	1.5	1.40	8				
	-E Z SL	-	10	15	02.0	1.8	1.93	8				
	Z SL	MAXIMUM	10	56	40.0	13.0	3.55					
BUH	E Z GT	P	10	14	38.8				9130	82.1	28.4	334.5

AUG 15 USCGS  
H= 10 34 11.6  
LAT = 43.6 N  
LONG= 148.1 E  
DEPTH= 111 KM  
MAGNITUDE= 4.2  
KURIL ISLANDS REGION

GRF	E Z HE	P	10	46	16.6				8860	79.7	30.3	333.2
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AUG 15  
NO DETERMINATION OF EPICENTER

GRF	+E Z HE	PG	11	00	56.7	0.4	0.95	3				
	E N HE	SG	11	01	16.7							

AUG 15 USCGS  
H= 11 29 53.1  
LAT = 43.2 N  
LONG= 147.8 E  
DEPTH= 43 KM  
MAGNITUDE= 4.4  
KURIL ISLANDS

GRF	E Z HE	P	11	41	59.8				8890	80.0	30.7	333.1
	-E Z HE	AP	11	42	11.5							
BNS	E Z FS	P	11	42	02.-			2	8910	80.1	28.1	336.0

AUG 15 USCGS  
H= 14 09 53.1  
LAT = 43.3 N  
LONG= 147.5 E  
DEPTH= 25 KM  
MAGNITUDE= 4.2  
KURIL ISLANDS



AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z HE	P	14 22 02.6				8870 79.8	30.8 332.9
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AUG 15  
NO DETERMINATION OF EPICENTER

GRF	E Z HE	PN	15 44 20.6					
	E Z HE	PG	15 44 22.4					
	E N BE	SG	15 44 46.9					

BNS	I Z FS	SG	15 44 38.9					
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AUG 15  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	16 47 22.0					
	E N BE	SG	16 47 45.4					

AUG 15 USCGS  
H= 17 01 02.7  
LAT = 43.7 N  
LONG= 147.8 E  
DEPTH=147 KM  
MAGNITUDE= 4.1  
KURIL ISLANDS

GRF	E Z BE	P	17 12 54.8				8840 79.5	30.4 333.0
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AUG 15 USCGS  
H= 19 04 09.5  
LAT = 23.5 S  
LONG= 180.0 W  
DEPTH=518 KM  
MAGNITUDE= 5.0  
SOUTH OF FIJI ISLANDS

FUR	+E Z SL	PKP	19 23 10.0	1.4	1.43	3	17110 153.8	24.0 342.7
	+E Z SL	PKP2	19 23 27.0	1.5	1.00	6		

AUG 15 USCGS  
H= 20 06 23.1  
LAT = 43.9 N  
LONG= 147.8 E  
DEPTH= 62 KM  
MAGNITUDE= 4.4  
KURIL ISLANDS

GRF	-E Z BE	P	20 18 24.4	1.0	1.38	2	8830 79.4	30.4 333.0
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FUR	-E Z SL	P	20 18 30.0	1.5	1.08	7	8970 80.7	30.3 332.2
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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 15 USCGS  
H= 20 47 47.1  
LAT = 43.2 N  
LONG= 147.1 E  
DEPTH= 51 KM  
MAGNITUDE= 5.0  
KURIL ISLANDS

GRF	+E Z HE	P	20 59 51.2	0.8	1.25	2	8860 79.7	31.1 332.6
	E Z HE	-	21 03 52.3					

BNS	E Z FS	P	20 59 51.3	1.5	1.48	2	8880 79.9	28.6 335.6
	E Z FS	-	21 00 06.-					

FUR	-E Z SL	P	20 59 57.0	2.0	1.76	7	9010 81.0	31.1 331.8
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BUH	+I Z GT	P	21 00 00.5	0.8	1.20		9070 81.6	29.1 333.8
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AUG 15 USCGS  
H= 20 53 13.9  
LAT = 43.5 N  
LONG= 147.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.2  
KURIL ISLANDS

GRF	E Z BE	P	21 05 19.5				8850 79.6	30.7 332.9
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AUG 15 USCGS  
H= 22 43 45.5  
LAT = 42.9 N  
LONG= 147.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.1  
OFF COAST OF HOKKAIDO, JAPAN

GRF	E Z BE	P	22 55 54.7				8910 80.2	31.0 332.9
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BNS	+I Z FS	P	22 55 54.7	1.0	1.78	2	8930 80.3	28.4 335.9
	E Z FS	-	22 56 06.3					

FUR	-E Z SL	P	22 56 02.0	1.6	1.00	3	9060 81.4	30.9 332.1
	-I Z SL	APCP	22 56 13.0	1.5	1.26	4		
	-I Z SL	-	22 56 29.0	1.5	1.26	4		

KRL	-E Z ST	P	22 56 02.5				9080 81.7	29.1 334.2
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BUH	E Z GT	P	22 56 05.3				9120 82.0	28.9 334.1
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416

AUG 1969 AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 15 USCGS  
H= 22 57 07.2  
LAT = 43.2 N  
LONG= 148.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.0  
KURIL ISLANDS REGION

GRF	E Z BE	P	23 09 18.0				8910 80.1	30.5 333.2
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AUG 16 USCGS  
H= 03 28 05.9  
LAT = 43.4 N  
LONG= 147.5 E  
DEPTH= 40 KM (GEOPHYSICIST)  
MAGNITUDE= 4.6  
KURIL ISLANDS

GRF	-E Z BE	P	03 40 12.1	1.2	1.58	2	8870 79.7	30.8 332.9
BNS	E Z FS	P	03 40 11.8	1.5	1.60	2	8890 79.9	28.2 335.8

AUG 16 USCGS  
H= 08 47 51.0  
LAT = 43.2 N  
LONG= 147.6 E  
DEPTH= 48 KM  
MAGNITUDE= 4.9  
KURIL ISLANDS

GRF	+E Z BE	P	08 59 56.5	0.9	1.38	2	8890 79.9	30.8 332.9
BNS	I Z FS	P	08 59 57.5	1.0	1.78	2	8910 80.1	28.2 335.9
	E Z FS	-	09 10 09.-					
FUR	+E Z SL	P	09 00 04.0	1.5	1.18	9	9030 81.2	30.7 332.1
	+E Z SL	AP	09 00 15.0	1.4	1.26	4		
	+E Z SL	XPCP	09 00 26.0	1.5	1.11	2		
	+E Z SL	-	09 00 36.0	1.6	1.20	4		

AUG 16 USCGS  
H= 09 03 13.9  
LAT = 43.9 N  
LONG= 148.5 E  
DEPTH= 40 KM (GEOPHYSICIST)  
MAGNITUDE= 5.2  
KURIL ISLANDS REGION

GRF	+E Z BE	P	09 15 18.6	1.0	1.31	2	8850 79.6	29.9 333.4
BNS	I Z FS	P	09 15 18.8	1.2	1.60	2	8860 79.7	27.3 336.3

417

AUG 1969 AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	+E Z SL	P	09 15 26.0	1.8	1.76	5	8990 80.9	29.8 332.6
	+E Z SL	AP	09 15 35.0	1.4	1.61	9		
	+E Z SL	APCP	09 15 38.0	1.7	1.65	9		

AUG 16 USCGS  
H= 10 02 57.3  
LAT = 43.9 N  
LONG= 147.7 E  
DEPTH= 61 KM  
MAGNITUDE= 4.2  
KURIL ISLANDS

GRF	E Z BE	P	10 15 01.4				8830 79.4	30.5 332.9
BNS	E Z FS	P	10 15 43.-			2	8840 79.5	27.9 335.8

AUG 16 USCGS  
H= 10 05 07.4  
LAT = 24.0 S  
LONG= 69.6 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.5  
MID-INDIAN RISE

FUR	+I Z SL	-	10 18 06.0	1.5	1.34	7	9880 88.8	128.9 325.3
	-I Z SL	XP	10 18 11.0	1.6	1.26	9		
GRF	E Z BE	P	10 18 04.4	1.1	1.48	3	9990 89.8	128.9 326.4

AUG 16 USCGS  
H= 12 44 07.8  
LAT = 44.0 N  
LONG= 148.2 E  
DEPTH= 45 KM (GEOPHYSICIST)  
MAGNITUDE= 4.7  
KURIL ISLANDS

GRF	-E Z BE	P	12 56 11.2	1.2	1.64	3	8830 79.4	30.1 333.2
BNS	E Z FS	P	12 56 11.-	1.5	1.70	2	8850 79.6	27.5 336.2
FUR	+I Z SL	P	12 56 17.0	1.3	1.60	2	8980 80.7	30.0 332.4

AUG 16 USCGS  
H= 15 15 32.7  
LAT = 43.3 N  
LONG= 147.6 E  
DEPTH= 60 KM (GEOPHYSICIST)  
MAGNITUDE= 5.7  
KURIL ISLANDS

AUG 1969				418		AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
HAM	+I Z SX	P	15 27 21.6			6	8560	77.0	30.3 335.6
GRF	+I Z BE	P	15 27 36.9	1.2	2.16	9	8880	79.8	30.8 332.9
BNS	+I Z FS	P	15 27 37.0	1.1	2.56	9	8900	80.0	28.2 335.9
	E Z FS	-	15 27 50.-						
	E FS	S	15 37 39.-						
HEI	+E Z ST	P	15 27 41.7	1.0	2.86	9	9000	80.9	29.1 334.2
FUR	-I Z SL	P	15 27 43.0	1.8	2.40	9	9020	81.1	30.7 332.1
	+I Z SL	Ap	15 27 55.0	1.4	2.13	4			
	-I Z SL	XPCP	15 28 07.0	1.6	1.52	2			
	-I Z SL	-	15 28 10.0	1.5	1.65	2			
	Z SL	MAXIMUM	16 09 00.0	14.0	3.28				
STU	+I Z BE	P	15 27 43.7	1.0	2.54	9	9040	81.3	29.3 333.6
KRL	+E Z ST	P	15 27 44.5	1.6	2.48	2	9050	81.3	28.8 334.2
BUH	E Z GT	P	15 27 45.7				9080	81.7	28.7 334.1
	E Z GT	-	15 27 48.6	1.0	2.40				

AUG 16 USCGS  
 H= 17 13 44.0  
 LAT = 43.2 N  
 LONG= 147.7 E  
 DEPTH= 53 KM  
 MAGNITUDE= 5.4  
 KURIL ISLANDS

HAM	E Z SX	P	17 25 33.-			2	8580	77.1	30.3 335.6
GRF	+E Z BE	P	17 25 49.2	1.2	1.96	3	8890	80.0	30.8 333.0
BNS	+I Z FS	P	17 25 49.6	1.1	2.34	9	8910	80.1	28.2 335.9
	I Z FS	-	17 25 52.5						
	E FS	-	17 26 03.8						
FUR	-E Z SL	P	17 25 56.0	1.8	2.15	8	9040	81.3	30.7 332.2
	+E Z SL	XP	17 26 10.0	1.5	1.52	3			
STU	+E Z BE	P	17 25 57.0	1.0	1.84	5	9050	81.4	29.4 333.7
KRL	-E Z ST	P	17 25 58.8	1.2	2.09		9060	81.5	28.9 334.2
BUH	+E Z GT	P	17 25 58.4				9100	81.8	28.7 334.2
	E Z GT	-	17 26 01.4	1.0	2.10				

AUG 16  
 NO DETERMINATION OF EPICENTER

GRF E Z BE P 20 36 45.6

AUG 1969				419		AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
AUG 17 USCGS H= 05 52 21.2 LAT = 43.4 N LONG= 147.5 E DEPTH= 48 KM MAGNITUDE= 4.4 KURIL ISLANDS									
GRF	+E Z BE	P	06 04 26.4	1.1	1.40	2	8860	79.7	30.8 332.8
FUR	+E Z SL	P	06 04 32.0	1.6	0.78	2	9010	81.0	30.7 332.0
AUG 17 NO DETERMINATION OF EPICENTER									
BNS	E Z X	PG	06 31 07.9						
	I E X	SG	06 31 14.9	0.6	2.40				
	E X	-	06 31 15.5	0.6	2.49				
AUG 17 USCGS H= 10 10 29.8 LAT = 7.0 S LONG= 155.6 E DEPTH= 66 KM MAGNITUDE= 5.1 SOLOMON ISLANDS									
BNS	E Z FS	PKP	10 29 32.7	1.5	1.48	2	14340	129.0	41.9 334.8
FUR	+E Z SL	PKP	10 29 26.0	1.5	0.90	3	14350	129.1	48.2 329.8
AUG 17 USCGS H= 11 36 45.3 LAT = 43.4 N LONG= 148.0 E DEPTH= 50 KM MAGNITUDE= 4.6 KURIL ISLANDS REGION									
GRF	-E Z BE	P	11 48 51.6	1.0	1.38	2	8890	79.9	30.5 333.1
FUR	+E Z SL	XP	11 49 08.0	1.7	1.65	9	9030	81.2	30.4 332.3
AUG 17 USCGS H= 11 54 54.9 LAT = 42.7 N LONG= 141.4 E DEPTH= 130 KM MAGNITUDE= 5.6 HOKKAIDO, JAPAN REGION									

AUG 1969				420	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
HAM	E Z SX	P	12 06 27.-			2	8400 75.6	34.8 332.4
	+I Z SX	PCP	12 06 32.-			3		
GRF	+I Z BE	P	12 06 42.0	0.9	1.83	8	8700 78.2	35.2 329.5
	E Z BE	PP	12 09 33.5					
BNS	I Z FS	P	12 06 43.0	1.4	2.08	5	8740 78.6	32.7 332.5
	I Z FS	-	12 07 17.-					
	E FS	-	12 07 32.5					
FUR	-I Z SL	P	12 06 48.0	1.5	1.70	9	8830 79.4	35.0 328.6
	+I Z SL	AP	12 07 18.0	1.6	1.20	4		
	+I Z SL	APCP	12 07 28.0	1.5	1.18	5		
	+I Z SL	XP	12 07 36.0	1.4	1.74	4		
	+I Z SL	XPCP	12 07 45.0	1.4	1.89	2		
	+E Z SL	SP	12 17 27.0	1.7	1.11	3		
	+E Z SL	PS	12 17 33.0	2.0	1.61	3		
STU	+E Z BE	P	12 06 49.6	0.7	2.13	9	8860 79.7	33.8 330.1
KRL	+E Z ST	P	12 06 50.4	1.5	2.30		8870 79.8	33.3 330.7

AUG 17  
NO DETERMINATION OF EPICENTER

GRF E Z BE PG 13 26 08.5  
E N BE SG 13 26 57.5

AUG 17 USCGS  
H= 13 58 08.8  
LAT = 18.6 S  
LONG= 169.1 E  
DEPTH=214 KM  
MAGNITUDE= 4.7  
NEW HEBRIDES ISLANDS

GRF +E Z BE PKP 14 17 19.1 1.1 1.60 4 16040 144.2 37.7 335.2  
FUR +I Z SL PKP 14 17 23.0 1.5 1.40 8 16170 145.4 39.2 333.5

AUG 17 USCGS  
H= 16 07 43.7  
LAT = 18.0 S  
LONG= 178.5 W  
DEPTH=610 KM (GEOPHYSICIST)  
MAGNITUDE= 4.9  
FIJI ISLANDS REGION

BNS E Z FS PKP 16 26 19.8 0.8 1.60 3 16320 146.8 10.0 353.4  
GRF +E Z BE PKP 16 26 21.7 0.7 1.10 2 16390 147.4 17.4 348.2  
FUR +E Z SL PKP 16 26 23.0 1.7 1.49 4 16550 148.8 18.3 347.2

AUG 1969				421	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	+E Z SL	PKP2	16 26 31.0	1.5	1.08	4		
AUG 17 USCGS H= 18 09 11.5 LAT = 43.5 N LONG= 147.5 E DEPTH= 45 KM MAGNITUDE= 4.6 KURIL ISLANDS								
GRF	E Z BE	P	18 21 15.7				8850 79.6	30.7 332.8
	+E Z BE	-	18 21 26.9					
BNS	E Z FS	P	18 21 27.-				8870 79.7	28.2 335.8
FUR	+E Z SL	XP	18 21 34.0	1.6	1.00	5	8990 80.9	30.6 332.0
	+E Z SL	XPCP	18 21 39.0	1.5	0.90	5		

AUG 17  
NO DETERMINATION OF EPICENTER

GRF -E Z BE P 18 15 33.3 0.8 1.25 3

AUG 17 USCGS  
H= 18 26 38.8  
LAT = 22.2 S  
LONG= 170.3 E  
DEPTH= 28 KM  
MAGNITUDE= 5.2  
LOYALTY ISLANDS REGION

FUR -E Z SL PKP 18 46 27.0 1.4 1.36 3 16580 149.1 40.3 332.1  
-E Z SL - 18 46 31.0 1.6 1.20 4  
-E Z SL APKP 18 46 37.0 1.5 1.08 2  
-E Z SL XPKP 18 46 42.0 1.5 1.00 2

AUG 17 USCGS  
H= 20 13 08.2  
LAT = 25.3 N  
LONG= 109.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.7  
GULF OF CALIFORNIA

BNS E Z FS P 20 25 49.- 2.0 2.00 3 9530 85.7 305.6 34.6  
GRF E Z BE P 20 26 00.8 9850 88.5 308.6 34.1  
FUR +E Z SL P 20 26 05.0 1.6 1.00 3  
+E Z SL AP 20 26 13.0 1.5 1.23 3  
+I Z SL APCP 20 26 17.0 1.6 1.08 2

AUG 1969

AUG 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/ N KM DEG. STAT. EPIC.

-I Z SL - 20 26 29.0 1.6 1.34 6  
 +I Z SL - 20 26 36.0 2.0 1.91 5  
 -I Z SL PP 20 29 47.0 1.6 1.34 9  
 -I Z SL APP 20 29 58.0 1.8 1.90 5  
 N SL MAXIMUM 20 58 00.0 34.0 4.92  
 Z SL MAXIMUM 21 10 00.0 15.0 4.61

AUG 17 USCGS  
 H= 20 14 58.9  
 LAT = 25.0 N  
 LONG= 109.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.1  
 GULF OF CALIFORNIA

HAM E Z WZ PPP 20 31 01.- 5 9560 86.0 307.6 31.5  
 BNS E Z FS P 20 27 38.- 1.6 2.32 9 9570 86.1 305.7 34.5  
 E Z FS - 20 30 58.-  
 E FS LR 20 52 00.- 60.0  
 KRL -E Z ST P 20 27 51.3 2.0 2.53 3 9770 87.9 306.7 35.6  
 GRF E Z BE P 20 27 52.5 9890 88.9 308.7 33.9  
 E Z BE - 20 28 59.5  
 E Z BE - 20 30 06.5  
 FUR -I Z SL P 20 27 58.0 10000 89.9 308.8 35.1  
 -I Z SL XP 20 28 06.0 1.8 1.76 3  
 -I Z SL XPCP 20 28 14.0 2.4 2.21 4  
 +I Z SL - 20 31 10.0 2.2 2.24 5  
 +I Z SL PP 20 31 31.0 2.2 2.15 7  
 +I Z SL APP 20 31 49.0 2.2 2.11 9  
 +I Z SL - 20 35 12.0 1.0 2.28 5  
 +I Z SL - 20 35 26.0 1.8 1.60 2  
 -I Z SL SP 20 40 05.0 3.6 2.76 9  
 -I Z SL - 20 40 20.0 7.5 3.16 4

AUG 17 USCGS  
 H= 20 27 25.2  
 LAT = 25.4 N  
 LONG= 109.2 W  
 DEPTH= 18 KM  
 MAGNITUDE= 5.4  
 GULF OF CALIFORNIA

GRF +E Z BE P 20 40 17.7 1.6 1.86 2 9840 88.5 308.7 34.1

AUG 1969

AUG 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. S/ N KM DEG. STAT. EPIC.

AUG 18 USCGS  
 H= 00 10 29.4  
 LAT = 43.7 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF E Z BE P 00 22 35.8 8850 79.6 30.5 333.0

AUG 18 USCGS  
 H= 01 04 04.7  
 LAT = 56.0 S  
 LONG= 123.4 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 EASTER ISLAND CORDILLERA

BNS +E Z FS PKP 01 23 52.8 2.5 2.11 3 16750 150.7 240.6 78.8  
 E Z FS - 01 26 56.-  
 E FS - 01 37 38.-  
 FUR -E Z SL PKP 01 23 54.0 1.8 1.76 5 16850 151.5 236.9 86.7  
 -E Z SL XPKP 01 24 07.0 1.2 2.14 2  
 +I Z SL PKP2 01 24 14.0 1.6 1.30 3  
 -I Z SL APKP 01 24 18.0 1.6 1.61 3  
 +I Z SL XPKP 01 24 25.0 1.6 1.72 9  
 +I Z SL - 01 24 43.0 1.8 2.01 9  
 +I Z SL - 01 25 11.0 1.5 1.52 3  
 Z SL MAXIMUM 01 27 00.0 20.0 3.61

GRF +E Z BE PKP 01 23 59.4 2.0 2.18 2 16930 152.3 239.3 83.9

AUG 18 USCGS  
 H= 02 55 31.1  
 LAT = 56.0 S  
 LONG= 122.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 EASTER ISLAND CORDILLERA

BNS E Z FS PKP 03 15 18.5 2.4 1.78 2 16710 150.3 240.5 78.4  
 FUR +E Z SL PKP 03 15 18.0 1.5 0.90 2 16800 151.1 236.8 86.1  
 +I Z SL - 03 15 20.0 1.6 1.52 8  
 -E Z SL APKP 03 15 27.0 1.5 1.23 3  
 -E Z SL PKP2 03 15 33.0 1.6 1.15 4  
 -I Z SL APKP 03 15 41.0 1.2 2.09 5  
 Z SL MAXIMUM 03 17 00.0 15.0 3.67  
 GRF E Z BE PKP 03 15 23.4 16890 151.9 239.2 83.3

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 18 USCGS  
 H= 02 57 43.0  
 LAT = 25.2 N  
 LONG= 109.8 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 GULF OF CALIFORNIA

GRF	E Z BE	P	03 10 39.5				9880 88.9	309.1 33.8
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AUG 18 USCGS  
 H= 03 21 54.0  
 LAT = 24.9 N  
 LONG= 109.0 W  
 DEPTH= 22 KM  
 MAGNITUDE= 5.3  
 GULF OF CALIFORNIA

GRF	E Z BE	P	03 34 48.4				9870 88.8	308.3 34.1
FUR	+E Z SL	AP	03 35 03.0	1.2	1.98	4	9980 89.8	308.3 35.3
	+E Z SL	XPCP	03 35 13.0	1.3	1.70	5		

AUG 18 USCGS  
 H= 03 54 49.8  
 LAT = 24.8 N  
 LONG= 109.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 GULF OF CALIFORNIA

GRF	E Z BE	P	04 07 44.2				9880 88.8	308.3 34.1
FUR	-E Z SL	P	04 07 42.0	1.7	1.11	2	9990 89.8	308.4 35.3
	+E Z SL	APCP	04 07 48.0	1.6	0.78	3		
	+E Z SL	XP	04 07 54.0	1.6	0.78	3		
	-E Z SL	XPCP	04 07 58.0	2.0	1.52	2		

AUG 18 USCGS  
 H= 05 25 48.8  
 LAT = 34.2 N  
 LONG= 140.7 E  
 DEPTH= 46 KM  
 MAGNITUDE= 4.8  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	05 38 22.4	0.9	1.35	3	9480 85.2	40.0 329.8
FUR	-E Z SL	P	05 38 27.0	1.6	1.00	5	9600 86.4	39.9 328.8
	-E Z SL	AP	05 38 38.0	1.6	1.00	5		

AUG 1969

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 18 USCGS  
 H= 06 51 19.2  
 LAT = 44.0 N  
 LONG= 148.3 E  
 DEPTH= 60 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	-E Z BE	P	07 03 20.4				8830 79.4	30.0 333.2
FUR	-E Z SL	P	07 03 28.0	1.5	0.90	3	8980 80.7	29.9 332.4
	+E Z SL	AP	07 03 36.0	1.6	0.90	2		
	-E Z SL	XP	07 03 42.0	1.7	1.34	3		
	-E Z SL	XPCP	07 03 50.0	1.5	0.70	2		

AUG 18 USCGS  
 H= 07 37 41.4  
 LAT = 14.8 S  
 LONG= 167.3 E  
 DEPTH= 140 KM  
 MAGNITUDE= 5.0  
 NEW HEBRIDES ISLANDS

FUR	-E Z SL	PKP	07 56 54.0	1.5	0.90	5	15710 141.3	38.9 334.2
	+E Z SL	APKP	07 57 28.0	1.6	0.78	3		
	+E Z SL	XPKP	07 57 48.0	1.6	0.78	3		

AUG 18 USCGS  
 H= 10 49 44.1  
 LAT = 43.6 N  
 LONG= 147.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	+E Z BE	P	11 01 50.0				8860 79.7	30.5 333.1
FUR	+E Z SL	P	11 01 55.0	1.6	0.90	4	9010 81.0	30.4 332.3

AUG 18 USCGS  
 H= 11 43 30.5  
 LAT = 43.8 N  
 LONG= 148.6 E  
 DEPTH= 39 KM  
 MAGNITUDE= 5.4  
 KURIL ISLANDS REGION

GRF	+E Z BE	P	11 55 36.2	0.9	1.51	5	8860 79.7	29.9 333.4
BNS	+I Z FS	P	11 55 35.8	1.0	1.85	5	8880 79.8	27.3 336.4
	E Z FS	LR	12 29 20.-					



AUG 1969				426	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	FS	MAXIMUM	12 35 40.-		16.0			
FUR	+I Z SL	P	11 55 43.0	1.4	1.83	9	9010 81.0	29.8 332.6
	-I Z SL	AP	11 55 49.0	1.5	1.23	3		
	+I Z SL	APCP	11 55 53.0	1.4	1.93	5		
	-I Z SL	XPCP	11 56 01.0	1.4	1.83	3		
STU	+E Z BE	P	11 55 42.8	1.0	1.97	6	9020 81.1	28.5 334.2
BUH	+E Z GT	P	11 55 45.3	0.8	1.20		9070 81.5	27.8 334.7
AUG 18 USCGS								
H= 13 44 27.8								
LAT = 20.0 N								
LONG= 64.2 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.0								
NORTH ATLANTIC OCEAN								
HAM	E Z SX	-	13 55 21.-			1	7210 64.8	269.8 39.5
AUG 18								
NO DETERMINATION OF EPICENTER								
BNS	E Z FS	P	13 57 20.5	1.4	1.78	3		
	E Z FS	-	13 57 31.-					
AUG 18 USCGS								
H= 14 09 45.9								
LAT = 29.1 S								
LONG= 177.6 W								
DEPTH= 60 KM								
MAGNITUDE= 5.3								
KERMADEC ISLANDS								
GRF	E Z BE	PKP	14 30 11.4				17610 158.4	21.4 344.3
FUR	+E Z SL	PKP	14 29 38.0	1.8	1.23	2	17770 159.8	23.0 342.6
	+I Z SL	PKP2	14 30 18.0	1.6	1.26	9		
	+I Z SL	-	14 30 40.0	1.5	1.00	3		
AUG 18								
NO DETERMINATION OF EPICENTER								
GRF	E Z BE	PN	14 52 56.6					
	E Z BE	PG	14 53 01.6	0.4	0.95	2		
	E N BE	SG	14 53 26.2					

AUG 1969				427	AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 18 USCGS								
H= 14 57 57.1								
LAT = 29.9 N								
LONG= 67.5 E								
DEPTH= 15 KM								
MAGNITUDE= 5.0								
WEST PAKISTAN								
FUR	+E Z SL	P	15 06 23.0	1.5	0.85	4	5140 46.2	92.0 309.6
	+E Z SL	AP	15 06 31.0	1.7	1.26	4		
	-E Z SL	XP	15 06 38.0	1.5	0.70	2		
	-E Z SL	APP	15 08 19.0	1.7	1.26	4		
GRF	+E Z BE	P	15 06 24.8	1.2	1.51	1	5150 46.4	93.4 311.7
AUG 18								
NO DETERMINATION OF EPICENTER								
GRF	E Z BE	P	16 18 55.6					
AUG 18 USCGS								
H= 16 29 34.0								
LAT = 44.5 N								
LONG= 148.1 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.4								
KURIL ISLANDS								
GRF	E Z BE	P	16 41 35.5				8780 78.9	29.9 333.1
AUG 18 USCGS								
H= 17 15 24.7								
LAT = 2.4 S								
LONG= 102.2 E								
DEPTH= 142 KM								
MAGNITUDE= 5.2								
SOUTHERN SUMATRA								
FUR	+E Z SL	P	17 28 17.0	1.5	0.70	1	10270 92.3	90.9 317.9
AUG 18 USCGS								
H= 18 29 27.6								
LAT = 44.0 N								
LONG= 148.4 E								
DEPTH= 50 KM (GEOPHYSICIST)								
MAGNITUDE= 4.7								
KURIL ISLANDS								
FUR	-E Z SL	P	18 41 33.0	1.5	0.70	3	8980 80.8	29.9 332.5
	-E Z SL	APCP	18 41 44.0	1.6	0.78	2		

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 19 USCGS  
 H= 01 05 29.9  
 LAT = 21.8 S  
 LONG= 179.7 W  
 DEPTH=649 KM  
 MAGNITUDE= 4.4  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	01 24 13.0				16770 150.8	21.1 345.4
	E Z BE	-	01 24 23.5			2		
FUR	+E Z SL	PKP	01 24 14.0	1.8	1.23	3	16930 152.2	22.2 344.2
	+E Z SL	PKP2	01 24 29.0	1.5	0.90	5		

AUG 19 USCGS  
 H= 01 39 08.3  
 LAT = 6.1 S  
 LONG= 105.3 E  
 DEPTH= 50 KM  
 MAGNITUDE= 5.1  
 SUNDA STRAIT

GRF	E Z BE	P	01 52 46.0				10820 97.3	90.9 319.2
	E Z BE	PP	01 56 30.-					

AUG 19 USCGS  
 H= 02 12 48.5  
 LAT = 10.4 S  
 LONG= 161.5 E  
 DEPTH= 70 KM  
 MAGNITUDE= 5.0  
 SOLOMON ISLANDS

GRF	E Z BE	PKP	02 32 13.5				14870 133.7	42.4 333.6
FUR	-E Z SL	PKP	02 32 25.0	1.6	0.60	2	14990 134.8	43.5 332.1
	+E Z SL	APKP	02 32 34.0	1.7	1.11	2		
	+E Z SL	XPKP	02 32 42.0	1.5	0.70	2		

AUG 19 USCGS  
 H= 08 49 54.8  
 LAT = 43.8 N  
 LONG= 148.2 E  
 DEPTH= 39 KM  
 MAGNITUDE= 5.7  
 KURIL ISLANDS REGION

HAM	-I Z SX	P	09 01 44.8			7	8530 76.7	29.7 335.9
GRF	+E Z BE	P	09 02 00.0	0.8	2.02	9	8850 79.6	30.2 333.2
	+E Z BE	-	09 06 39.4	1.0	1.61	2		

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	-I Z X	P	09 02 00.3	1.4	2.28	2	8870 79.7	27.6 336.1
	+I E X	S	09 12 00.0	2.5	2.53			
	X	SS	09 17 50.-					
	E Z SL	-	09 21 40.-					
	E Z SL	LR	09 28 00.-	58.0				
	SL	-	09 42 00.-	16.0				

TNS	I	P	09 01 26.5				8900 80.0	28.4 335.1
	I	PCP	09 01 39.5					
	E	S	09 11 27.0					

HEI	-E Z ST	P	09 02 05.4	1.0	2.49	5	8970 80.7	28.5 334.5
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FUR	+I Z SL	P	09 02 07.0	1.5	1.83	9	9000 80.9	30.1 332.4
	+I Z SL	PCP	09 02 11.0	2.0	2.40	2		
	+I Z SL	APCP	09 02 19.0	1.5	2.00	3		
	-I Z SL	XPCP	09 02 29.0	1.5	1.83	3		
	+I Z SL	PP	09 05 10.0	1.5	1.52	2		
	+I Z SL	APP	09 05 17.0	1.5	1.23	5		
	+I Z SL	PPP	09 07 04.0	1.5	1.36	5		
	-E Z SL	PPS	09 13 27.0	3.0	2.22	2		
	Z SL	MAXIMUM	09 42 00.0	17.0	4.09			

STU	-E Z BE	P	09 02 07.5	1.3	2.42	9	9010 81.1	28.8 333.9
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KRL	-E Z WH	P	09 02 08.5				9020 81.1	28.3 334.5
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BUH	+E Z GT	P	09 02 09.3	1.5	1.86		9060 81.5	28.1 334.4
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FEL	-E Z ST	P	09 02 13.6	1.0	1.92	6	9140 82.2	27.9 334.2
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AUG 19 USCGS  
 H= 09 30 13.5  
 LAT = 43.6 N  
 LONG= 148.2 E  
 DEPTH= 45 KM  
 MAGNITUDE= 4.6  
 KURIL ISLANDS REGION

GRF	E Z BE	P	09 42 19.6				8880 79.8	30.2 333.3
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AUG 19 USCGS  
 H= 12 06 59.6  
 LAT = 44.1 N  
 LONG= 148.8 E  
 DEPTH= 43 KM  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	+E Z BE	P	12 19 04.5	0.8	1.25	2	8850 79.5	29.6 333.6
	E Z BE	AP	12 19 16.1					

FUR	+E Z SL	P	12 19 11.0	1.5	0.48	2	8990 80.9	29.5 332.8
	+E Z SL	XP	12 19 23.0	1.5	0.70	3		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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 AUG 19  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 52 16.0	1.5	0.70	3		
	+E Z SL	-	14 52 30.0	1.4	1.15	3		
	+E Z SL	-	14 52 37.0	1.4	1.15	2		

 AUG 19  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15 46 10.0	1.5	0.70	3		
	+I Z SL	-	15 46 18.0	1.7	1.11	2		
	+I Z SL	-	15 46 26.0	1.6	1.08	2		

 AUG 19 USCGS  
H= 17 26 07.3  
LAT = 56.7 S  
LONG= 142.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.4  
SOUTH PACIFIC CORDILLERA

BNS	E Z FS	PKP	17 46 15.-			2	17910 161.1	240.5 94.5
	E Z FS	LR	18 34 00.-					
	FS	MAXIMUM	18 45 00.-	54.0				
FUR	+E Z SL	PKP	17 46 13.0	1.5	0.70	3	17990 161.7	232.3 106.5
	+I Z SL	XPKP	17 46 27.0	1.7	1.34	2		
	+I Z SL	PKP2	17 47 04.0	2.4	1.83	3		
	-I Z SL	APKP	17 47 13.0	2.2	1.81	2		
	-I Z SL	-	17 47 29.0	1.7	1.26	4		
GRF	E Z BE	PKP	17 46 10.-				18080 162.6	236.1 102.3

 AUG 19 USCGS  
H= 23 36 34.2  
LAT = 43.2 N  
LONG= 147.3 E  
DEPTH= 50 KM (GEOPHYSICIST)  
MAGNITUDE= 4.3  
KURIL ISLANDS

GRF	E Z BE	P	23 48 41.6				8880 79.9	31.0 332.8
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 AUG 20 USCGS  
H= 05 34 23.2  
LAT = 43.4 N  
LONG= 147.4 E  
DEPTH= 54 KM  
MAGNITUDE= 4.2  
KURIL ISLANDS

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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GRF	E Z HE	P	05 46 29.9				8860 79.7	30.8 332.8
FUR	+E Z SL	AP	05 46 38.0	1.5	0.70	2	9000 81.0	30.7 332.0
	+E Z SL	XPCP	05 46 48.0	1.5	0.70	2		
	+E Z SL	-	05 46 55.0	1.6	0.78	3		
	+E Z SL	-	05 47 08.0	1.5	0.70	2		

 AUG 20 USCGS  
H= 06 32 49.7  
LAT = 13.4 S  
LONG= 77.7 W  
DEPTH= 35 KM (GEOPHYSICIST)  
MAGNITUDE= 4.6  
OFF COAST OF PERU

GRF	E Z HE	PP	06 50 20.5				11050 99.4	260.5 41.2
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 AUG 20 USCGS  
H= 07 50 05.5  
LAT = 47.9 N  
LONG= 153.6 E  
DEPTH= 73 KM  
MAGNITUDE= 5.8  
KURIL ISLANDS

HLG	-I N X	P	08 01 27.3	1.4	3.01	6	8250 74.2	23.2 339.9
	-I Z X	P	08 01 36.9	1.4	3.23	9		
	+I E X	P	08 01 38.1	1.4	2.96	5		
HAM	+I Z SX	P	08 01 38.1			5	8270 74.4	24.4 338.4
	E Z SX	AP	08 01 59.-			7		
BNS	+I Z X	P	08 01 53.5	1.5	3.18	9	8600 77.4	22.4 339.0
	E Z X	PP	08 04 46.-					
	X	S	08 11 34.5	2.5	2.53			
	E Z SL	SS	08 17 18.-					
	E Z SL	LH	08 25 54.-	56.0				
	SL	MAXIMUM	08 33 00.-	31.0				
GRF	+I Z BE	P	08 01 55.2	0.8	1.91	9	8620 77.5	24.9 336.1
HEI	+E Z ST	P	08 01 59.7	1.4	3.46	9	8720 78.4	23.3 337.5
KRL	+E Z ST	P	08 02 02.2	1.5	2.50	2	8770 78.9	23.0 337.5
FUR	-I Z SL	P	08 02 02.0	1.5	2.85	9	8770 78.9	24.8 335.4
	+I Z SL	PCP	08 02 12.0	1.5	2.11	2		
	-I Z SL	AP	08 02 25.0	1.5	1.92	3		
	-I Z SL	APCP	08 02 34.0	2.0	2.23	9		
	-I Z SL	XP	08 02 41.0	1.4	2.19	7		
	-I Z SL	PP	08 05 08.0	1.6	1.54	2		
	-I Z SL	APP	08 05 26.0	1.5	1.48	6		
	-I Z SL	XPP	08 05 36.0	1.5	1.68	7		
	-E N SL	S	08 10 50.0	5.0	2.98	5		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-I N SL	XS		08 11 10.0	5.0	3.16	4		
+I N SL	PPS		08 12 03.0	4.0	3.03	8		
E SL	MAXIMUM		08 30 30.0	35.0	3.59			
STU	+E Z BE	P	08 02 02.2	1.6	3.34	4	8770 78.9	23.5 336.9
BUH	+E Z GT	P	08 02 04.2	1.2	2.00		8810 79.2	22.9 337.5
FEL	+E Z ST	P	08 02 08.3	1.3	3.00	9	8900 80.0	22.7 337.3

AUG 20 USCGS  
 H= 08 10 43.2  
 LAT = 53.3 N  
 LONG= 164.0 W  
 DEPTH= 27 KM  
 MAGNITUDE= 4.1  
 UNIMAK ISLAND REGION

FUR	+E Z SL	P	08 22 45.0	1.6	1.00	5	8770 78.8	357.1 3.2
	-E Z SL	-	08 22 47.0	1.6	1.08	3		

AUG 20 USCGS  
 H= 10 12 05.9  
 LAT = 43.8 N  
 LONG= 147.7 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	-E Z BE	P	10 24 09.2				8830 79.4	30.5 332.9
FUR	-E Z SL	P	10 24 17.0	1.4	1.36	3	8980 80.7	30.4 332.1
	-E Z SL	-	10 24 19.0	1.4	1.43	3		
	+E Z SL	XP	10 24 29.0	1.5	0.90	2		

AUG 20  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	11 01 32.0	1.5	0.90	3		
	-E Z SL	-	11 01 57.0	1.6	1.00	5		

AUG 20 USCGS  
 H= 17 22 13.7  
 LAT = 5.3 S  
 LONG= 149.7 E  
 DEPTH= 27 KM  
 MAGNITUDE= 4.8  
 NEW BRITAIN REGION

FUR	-E Z SL	PKP	17 41 12.0	1.6	1.00	3	13850 124.5	53.4 327.3
	+E Z SL	XP	17 41 28.0	1.5	1.00	3		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 21 USCGS  
 H= 00 28 36.8  
 LAT = 43.2 N  
 LONG= 148.2 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS REGION

GRF	+E Z HE	P	00 40 43.1				8910 80.1	30.4 333.3
BNS	+E Z FS	P	00 40 43.4				8930 80.3	27.8 336.2
	E Z FS	-	00 40 55.5	1.4	1.70	2		
FUR	+I Z SL	P	00 40 51.0	1.5	1.08	7	9050 81.4	30.3 332.5
	+I Z SL	Ap	00 41 02.0	1.4	1.66	5		
	-I Z SL	XP	00 41 05.0	1.4	1.70	6		
	+E Z SL	-	00 41 21.0	1.5	1.08	4		
	+E Z SL	-	00 41 25.0	1.5	1.08	2		
BUH	-E Z GT	P	00 40 53.2	2.0	2.10		9110 82.0	28.4 334.5

AUG 21 USCGS  
 H= 02 03 54.2  
 LAT = 35.0 N  
 LONG= 26.6 E  
 DEPTH= 55 KM  
 MAGNITUDE= 4.4  
 CRETE

AUG 21 BCIS  
 H= 02 03 54.0  
 LAT = 35.0 N  
 LONG= 26.7 E  
 DEPTH= 42 KM  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	+E Z SL	XP	02 08 08.0	1.6	1.00	5	1930 17.4	133.3 323.6
	+E Z SL	-	02 08 27.0	1.6	0.90	4		
	-E Z SL	-	02 08 43.0	1.8	1.53	3		
	+E Z SL	-	02 09 04.0	1.6	1.00	2		
GRF	E Z BE	P	02 08 06.3				2060 18.5	136.5 327.0

AUG 21 USCGS  
 H= 02 44 01.3  
 LAT = 43.0 N  
 LONG= 147.3 E  
 DEPTH= 36 KM  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

HAM	E Z SX	P	02 55 54.-			1	8580 77.2	30.6 335.5
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434

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	+E Z BE	P	02 56 08.9	0.9	1.29	3	8890 80.0	31.1 332.8
BNS	E Z FS	P	02 56 10.-				8910 80.2	28.5 335.7
	-I Z FS	-	02 56 20.5	1.0	1.78	2		
FUR	+E Z SL	P	02 56 16.0	1.5	1.11	8	9040 81.3	31.0 332.0
	+E Z SL	AP	02 56 25.0	1.5	1.23	5		

AUG 21 USCGS  
 H= 03 32 11.5  
 LAT = 43.2 N  
 LONG= 147.0 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

HAM	E Z SX	P	03 44 02.-			1	8550 76.9	30.7 335.3
GRF	+E Z BE	P	03 44 18.0	0.9	1.51	2	8870 79.7	31.2 332.6
BNS	E Z FS	P	03 44 18.5	1.0	1.48	2	8890 79.9	28.6 335.5
FUR	-E Z SL	P	03 44 24.0	1.5	0.90	5	9010 81.0	31.1 331.8
	-E Z SL	PCP	03 44 29.0	1.2	1.74	4		
	-E Z SL	APCP	03 44 35.0	1.4	1.36	3		
	-E Z SL	-	03 44 40.0	1.4	1.42	3		
	-I Z SL	XPCP	03 44 46.0	1.5	0.90	5		
	+E Z SL	-	03 44 51.0	1.7	1.63	5		
	N SL	MAXIMUM	04 25 30.0	15.0	3.01			

AUG 21  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	-	04 19 35.-					
	I Z X	SG	04 19 38.0					
	E X	-	04 19 44.8	1.2	2.34			

AUG 21 USCGS  
 H= 04 47 27.2  
 LAT = 42.9 N  
 LONG= 147.2 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 OFF COAST OF HOKKAIDO, JAPAN

GRF	-E Z BE	P	04 59 35.4	1.2	1.51	1	8910 80.1	31.2 332.8
BNS	E Z FS	P	04 59 37.-				8930 80.3	28.6 335.7
	E Z FS	-	04 59 47.-					
FUR	+E Z SL	P	04 59 42.0	1.5	1.08	7	9050 81.4	31.1 331.9
	-E Z SL	PCP	04 59 47.0	1.5	0.90	5		
	-E Z SL	XP	04 59 54.0	1.2	1.98	4		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 21	USCGS							
	H= 05 10 34.0							
	LAT = 43.1 N							
	LONG= 147.3 E							
	DEPTH= 33 KM (NORMAL)							
	MAGNITUDE= 4.5							
	KURIL ISLANDS							
FUR	-E Z SL	P	05 22 48.0	1.5	1.08	2	9030 81.2	31.0 331.9

AUG 21 USCGS  
 H= 07 51 30.2  
 LAT = 43.8 N  
 LONG= 147.1 E  
 DEPTH= 39 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

FUR	+E Z SL	P	08 03 41.0	1.5	1.11	4	8950 80.5	30.8 331.7
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AUG 21 USCGS  
 H= 13 21 56.6  
 LAT = 36.3 N  
 LONG= 140.8 E  
 DEPTH= 67 KM  
 MAGNITUDE= 4.4  
 NEAR EAST COAST OF HONSHU, JAPAN

GRF	-E Z BE	P	13 34 19.2				9280 83.4	38.8 329.7
FUR	-E Z SL	P	13 34 26.0	1.6	1.15	4	9410 84.6	38.7 328.7

AUG 21 USCGS  
 H= 13 24 01.9  
 LAT = 43.6 N  
 LONG= 148.1 E  
 DEPTH= 44 KM  
 MAGNITUDE= 5.5  
 KURIL ISLANDS REGION

GRF	-I Z BE	P	13 36 07.0	0.8	1.47	5	8860 79.7	30.3 333.2
	-I Z BE	AP	13 36 19.2					
BNS	I Z FS	P	13 36 08.4				8880 79.8	27.7 336.1
	I Z FS	-	13 36 17.2	1.5	2.08	2		
FUR	-I Z SL	P	13 36 13.0	1.6	1.91	9	9010 81.0	30.2 332.3
	-I Z SL	APCP	13 36 25.0	2.0	2.21	7		
	E SL	MAXIMUM	14 17 40.0	16.0	3.00			
STU	E Z BE	P	13 36 14.2	1.0	2.20	4	9020 81.1	28.9 333.9

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AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BUH	-E Z GT	P	13 36 16.4	1.6	1.60		9070 81.5	28.3 334.4
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AUG 21 USCGS  
 H= 17 14 30.1  
 LAT = 39.4 N  
 LONG= 144.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 OFF EAST COAST OF HONSHU, JAPAN

FUR	-E Z SL	P	17 26 57.0	1.8	1.45	3	9280 83.4	34.6 330.6
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AUG 21  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	18 07 18.8					
	E N BE	SG	18 07 43.-					

AUG 21 USCGS  
 H= 19 22 20.9  
 LAT = 18.1 S  
 LONG= 177.7 W  
 DEPTH=385 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.0  
 FIJI ISLANDS REGION

GRF	-E Z BE	PKP	19 41 24.6				16430 147.7	16.1 349.1
	-E Z BE	APKP	19 42 56.8					

FUR	+E Z SL	PKP	19 41 28.0	1.6	1.30	5	16590 149.2	16.9 348.2
	+E Z SL	-	19 41 31.0	1.6	1.30	3		
	+E Z SL	APKP	19 43 03.0	1.5	1.23	5		

AUG 21  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	22 49 22.0	1.4	1.43	3		
	-E Z SL	-	22 49 31.0	1.5	1.00	3		

AUG 22 USCGS  
 H= 04 40 26.1  
 LAT = 43.1 N  
 LONG= 148.3 E  
 DEPTH= 60 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS REGION

GRF	E Z BE	P	04 52 32.8				8920 80.3	30.4 333.3
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BNS	-I Z FS	P	04 52 36.0	1.2	1.60	2	8940 80.4	27.8 336.3
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437

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	E Z FS	LR	05 26 00.-					
	FS	MAXIMUM	05 33 00.-	15.0				
FUR	-E Z SL	P	04 52 39.0	1.5	1.08	4	9070 81.6	30.3 332.5
	-E Z SL	XPCP	04 53 02.0	1.5	1.11	4		
BUH	E Z GT	P	04 52 47.-	1.0	1.30		9130 82.1	28.4 334.6

AUG 22 USCGS  
 H= 05 30 19.2  
 LAT = 43.6 N  
 LONG= 147.6 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.3  
 KURIL ISLANDS

GRF	E Z BE	P	05 42 17.3				8850 79.6	30.7 332.9
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FUR	-E Z SL	P	05 42 30.0	1.5	1.08	7	8990 80.9	30.6 332.1
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AUG 22 USCGS  
 H= 07 12 30.9  
 LAT = 43.8 N  
 LONG= 146.9 E  
 DEPTH= 59 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	+E Z BE	P	07 24 31.6	1.0	1.56	2	8810 79.2	31.0 332.5
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AUG 22 USCGS  
 H= 07 41 17.3  
 LAT = 20.9 S  
 LONG= 178.7 W  
 DEPTH=592 KM  
 MAGNITUDE= 4.8  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	08 00 00.5				16700 150.2	19.0 347.0
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FUR	+I Z SL	PKP2	08 00 18.0	1.6	1.08	3	16860 151.6	20.0 345.8
	+E Z SL	APKP	08 02 09.0	1.6	1.26	9		

AUG 22 USCGS  
 H= 10 23 14.9  
 LAT = 6.8 S  
 LONG= 12.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 ASCENSION ISLAND REGION

438

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AUG 1969 AZIMUTH STAT. EPIC.
FUR	+E Z SL	P	10 33 09.0	1.5	1.40	7	6510 58.6	207.7 18.2
	-E Z SL	AP	10 33 16.0	1.6	1.26	9		
	-E Z SL	XP	10 33 24.0	1.5	1.40	8		
	-E Z SL	-	10 33 38.0	1.4	1.66	9		
	+E Z SL	PCP	10 33 57.0	1.5	1.23	5		
	Z SL	MAXIMUM	11 01 30.0	14.0	3.44			

AUG 22 USCGS  
 H= 15 45 04.7  
 LAT = 7.6 S  
 LONG= 156.0 E  
 DEPTH= 80 KM  
 MAGNITUDE= 5.1  
 SOLOMON ISLANDS

GRF	E Z BE	PKP	16 04 07.-				14310 128.7	47.1 331.3
FUR	-E Z SL	PKP	16 04 10.0	1.4	1.51	7	14420 129.7	48.1 329.8
	-E Z SL	-	16 04 16.0	1.4	1.43	3		

AUG 22 USCGS  
 H= 17 34 20.1  
 LAT = 16.1 S  
 LONG= 174.1 W  
 DEPTH=152 KM  
 MAGNITUDE= 4.9  
 TONGA ISLANDS

BNS	+I Z FS	PKP	17 53 41.0	1.0	2.18	9	16150 145.2	2.2 358.6
	I Z FS	-	17 53 44.7					
	FS	-	17 54 18.5					
GRF	+E Z BE	PKP	17 53 44.5	1.8	2.30	3	16260 146.2	9.3 353.8
	+E Z BE	APKP	17 54 26.0	1.4	2.11	3		
BUH	+I Z GT	PKP	17 53 48.2	1.1	1.70		16400 147.5	4.2 357.1
FUR	-I Z SL	PKP	17 53 45.0	2.0	1.76	4	16430 147.7	9.8 353.2
	-I Z SL	PKP	17 53 48.0	1.5	1.30	2		
	+E Z SL	-	17 54 14.0	1.6	1.30	9		
	+I Z SL	APKP	17 54 30.0	1.5	1.40	8		
	+I Z SL	XPKP	17 54 49.0	1.4	1.66	9		

AUG 22 USCGS  
 H= 23 54 11.9  
 LAT = 18.4 S  
 LONG= 168.4 E  
 DEPTH= 41 KM  
 MAGNITUDE= 4.7  
 NEW HEBRIDES ISLANDS

GRF	-E Z BE	PKP2	00 13 40.4	0.8	1.17	2	15990 143.8	38.5 334.8
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439

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AUG 1969 AZIMUTH STAT. EPIC.
FUR	+I Z SL	PKP	00 13 44.0	1.5	1.40	8	16120 144.9	40.0 333.1
	+E Z SL	XPKP	00 14 05.0	1.6	1.26	9		
	-E Z SL	-	00 14 17.0	1.4	1.70	2		
BUH	-E Z GT	PKP	00 13 47.-	1.0	1.80		16210 145.8	34.9 336.5

AUG 23 USCGS  
 H= 01 42 52.8  
 LAT = 15.5 S  
 LONG= 173.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

GRF	+E Z BE	PKP	02 02 30.4	1.4	1.78	2	16200 145.7	7.3 355.1
FUR	-E Z SL	PKP	02 02 34.0	1.4	1.43	6	16370 147.2	7.7 354.7
	-E Z SL	PKP2	02 02 38.0	1.5	1.18	9		
	-E Z SL	APKP	02 02 45.0	1.4	1.61	5		

AUG 23 USCGS  
 H= 02 54 18.9  
 LAT = 39.7 N  
 LONG= 144.3 E  
 DEPTH= 37 KM  
 MAGNITUDE= 5.2  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	03 06 37.7	1.2	1.58	2	9100 81.8	34.7 331.3
FUR	-E Z SL	P	03 06 44.0	1.7	1.60	9	9240 83.1	34.6 330.4

AUG 23  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	05 09 51.0	1.5	1.23	5		
	-I Z SL	-	05 10 06.0	1.4	1.81	5		

AUG 23 USCGS  
 H= 06 39 24.5  
 LAT = 39.8 N  
 LONG= 144.2 E  
 DEPTH= 33 KM  
 MAGNITUDE= 5.2  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	-E Z BE	P	06 51 42.6	1.0	1.70	3	9090 81.8	34.7 331.3
	-E Z BE	AP	06 51 54.3					
FUR	+I Z SL	P	06 51 49.0	2.0	1.91	9	9230 83.0	34.6 330.4
	-E Z SL	AP	06 51 56.0	1.6	1.26	5		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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AUG 23 USCGS  
 H= 06 47 49.7  
 LAT = 44.0 N  
 LONG= 148.2 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

GRF	E Z BE	P	06 59 55.2				8830	79.4	30.1	333.2
FUR	-I Z SL	XP	07 00 13.0	1.5	1.18	5	8980	80.8	30.0	332.4
	-E Z SL	XPCP	07 00 22.0	1.6	1.08	3				
BUH	E Z GT	P	07 00 05.-	0.8	1.20		9040	81.3	28.0	334.5

AUG 23  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 56 56.6							
	E N BE	SG	12 57 22.4							

AUG 23 USCGS  
 H= 13 27 42.2  
 LAT = 43.7 N  
 LONG= 147.6 E  
 DEPTH= 51 KM  
 MAGNITUDE= 4.0  
 KURIL ISLANDS

GRF	+E Z HE	P	13 39 45.2				8830	79.4	30.6	332.9
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AUG 23 USCGS  
 H= 14 53 01.5  
 LAT = 43.4 N  
 LONG= 147.7 E  
 DEPTH= 60 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.0  
 KURIL ISLANDS

GRF	E Z HE	P	15 05 08.0				8870	79.8	30.7	333.0
FUR	-E Z SL	XP	15 05 25.0	1.6	1.15	7	9020	81.1	30.6	332.1

AUG 23 USCGS  
 H= 19 56 47.0  
 LAT = 39.7 N  
 LONG= 144.3 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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GRF	+E Z BE	P	20 09 05.4	1.4	1.70	2	9110	81.9	34.7	331.4
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AUG 24 USCGS  
 H= 03 33 58.6  
 LAT = 43.4 N  
 LONG= 147.4 E  
 DEPTH= 60 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	E Z BE	P	03 46 02.7				8860	79.7	30.8	332.8
BNS	E Z FS	P	03 46 02.5				8880	79.9	28.3	335.8
	E Z FS	-	03 46 15.5							
FUR	+E Z SL	P	03 46 09.0	1.5	1.00	6	9010	81.0	30.7	332.0
	-E Z SL	XP	03 46 22.0	1.5	1.23	5				
	-E Z SL	XPCP	03 46 25.0	1.4	1.51	2				

AUG 24 USCGS  
 H= 09 31 26.2  
 LAT = 61.3 S  
 LONG= 154.2 E  
 DEPTH= 15 KM  
 MAGNITUDE= 5.1  
 BALLENY ISLANDS REGION

FUR	+E Z SL	PKP	09 51 18.0	1.5	0.70	3	17270	155.3	136.0	254.7
	+E Z SL	APKP	09 51 28.0	1.5	0.90	3				
	+E Z SL	XPKP	09 51 34.0	1.5	1.08	2				
	-E Z SL	PKP2	09 51 48.0	1.5	0.90	2				
	-I Z SL	-	09 51 54.0	1.5	1.00	3				
	+E Z SL	APKP	09 51 58.0	1.5	0.90	3				
	+E Z SL	XPKP	09 52 04.0	1.5	0.90	2				

AUG 24 USCGS  
 H= 10 50 17.8  
 LAT = 39.7 N  
 LONG= 144.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	11 02 36.0	1.4	1.78	3	9110	81.9	34.7	331.4
	E Z BE	-	11 02 46.0							
	E Z BE	-	11 03 15.-							



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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 24 USCGS  
 H= 22 03 03.8  
 LAT = 39.8 N  
 LONG= 144.3 E  
 DEPTH= 32 KM  
 MAGNITUDE= 5.4  
 OFF EAST COAST OF HONSHU, JAPAN

HAM	E Z SX	P	22 15 08.-			2	8800 79.1	34.1 334.2
GRF	-E Z BE	P	22 15 21.9	1.0	1.38	2	9090 81.8	34.7 331.3
BNS	E Z FS	P	22 15 23.7				9130 82.1	32.0 334.2
	E Z FS	-	22 15 43.-					
FUR	+I Z SL	P	22 15 28.0	1.8	2.05	9	9230 83.0	34.6 330.4
	+I Z SL	PCP	22 15 33.0	1.5	1.08	4		
	+E Z SL	APCP	22 15 40.0	2.5	1.94	3		
	+I Z SL	-	22 16 09.0	1.7	1.56	3		
	E SL	MAXIMUM	22 55 00.0	14.5	2.67			
STU	-E Z BE	P	22 15 29.0	0.8	1.70	5	9260 83.3	33.2 331.9
BUH	-E Z GT	P	22 15 31.-	2.0	2.10		9310 83.7	32.5 332.4

AUG 25 USCGS  
 H= 01 06 20.1  
 LAT = 39.7 N  
 LONG= 144.4 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	-E Z BE	P	01 18 39.9	1.2	1.58	1	9110 81.9	34.6 331.4
	-E Z BE	AP	01 18 49.6					
FUR	+I Z SL	P	01 18 46.0	1.7	1.34	5	9250 83.2	34.5 330.5
	+I Z SL	AP	01 18 56.0	1.7	1.11	2		
	+I Z SL	-	01 19 14.0	1.7	1.26	2		

AUG 25 USCGS  
 H= 01 12 05.1  
 LAT = 39.6 N  
 LONG= 144.5 E  
 DEPTH= 35 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.7  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	01 24 25.2				9130 82.1	34.6 331.5
FUR	+E Z SL	P	01 24 30.0	1.7	2.49	7	9260 83.3	34.5 330.6
	+E Z SL	PCP	01 24 35.0	1.5	0.90	3		
	-E Z SL	XP	01 24 43.0	1.7	1.43	3		

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	+E Z SL	-	01 24 54.0	2.1	1.76	3		
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AUG 25 USCGS  
 H= 14 04 10.3  
 LAT = 43.6 N  
 LONG= 146.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	E Z BE	P	14 16 25.4	1.2	1.64	2	8820 79.3	31.2 332.4
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AUG 25 USCGS  
 H= 17 02 55.3  
 LAT = 17.1 N  
 LONG= 61.5 W  
 DEPTH= 65 KM  
 MAGNITUDE= 4.8  
 LEEWARD ISLANDS

FUR	-E Z SL	AP	17 13 44.0	1.5	1.18	5	7340 66.0	269.0 44.4
	+E Z SL	PCP	17 14 07.0	1.5	1.08	4		
	-E Z SL	-	17 14 31.0	1.5	1.00	2		

AUG 25 USCGS  
 H= 18 07 31.1  
 LAT = 43.9 N  
 LONG= 148.4 E  
 DEPTH= 65 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS REGION

GRF	E Z BE	P	18 19 33.5				8850 79.6	30.0 333.3
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AUG 25 USCGS  
 H= 20 41 27.0  
 LAT = 39.5 N  
 LONG= 144.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	E Z BE	P	20 53 46.1				9120 82.0	34.7 331.4
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AUG 25  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	21 24 09.0	1.5	1.00	3		
	Z SL	MAXIMUM	21 24 52.0	1.7	1.69			

AUG 1969										444		AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S			PER.	LOG. AMP.	S/N	DISTANCE KM DEG.		AZIMUTH STAT. EPIC.				
GRF	-E Z BE	PG	21	24	36.1										
	E N BE	SG	21	25	05.5										
AUG 25															
NO DETERMINATION OF EPICENTER															
GRF	+E Z BE	P	23	42	25.7	0.8	1.17	2							
AUG 26 BCIS															
H= 02 15 33.0															
LAT = 41.5 N															
LONG = 20.5 E															
NO DEPTH COMPUTED															
NO MAGNITUDE COMPUTED															
ALBANIA															
AUG 26 USCGS															
H= 02 15 38.8															
LAT = 41.8 N															
LONG = 20.1 E															
DEPTH = 42 KM															
MAGNITUDE = 4.9															
ALBANIA															
BCIS = FELT (VI) AT PESHKOPI, (V-VI) AT DEBAR, (V+) AT KOKES AND BULGIZE, (V) AT BURREL, (III-VI) AT TIRANA, KRUIJA, LIBRAZHDI, ELBASANI, (III) AT SHKODERA, POGRODEZI, PUKAR AND IN THE REGION OF TITOGRAD.															
FUR	+I Z SL	P	02	17	47.0	1.5	1.23	5	1040	9.3	132.1 318.6				
	-I Z SL	XP	02	17	57.0	1.5	1.40	8							
	+I Z SL	-	02	18	10.0	1.4	1.61	2							
	+I Z SL	-	02	18	19.0	1.5	1.54	7							
	-I Z SL	-	02	18	29.0	1.5	2.07	8							
	+I Z SL	-	02	18	56.0	1.8	1.98	9							
	+I Z SL	-	02	19	03.0	1.6	1.72	9							
	-I Z SL	SS	02	19	35.0	1.6	2.14	9							
	+I Z SL	-	02	19	43.0	1.6	2.10	6							
	Z SL	MAXIMUM	02	21	20.0	1.5	2.44								
GRF	-E Z BE	P	02	18	01.8	1.3	1.81	3	1160	10.5	138.1 324.7				
	+I Z BE	-	02	18	10.5										
STU	+E Z HE	P	02	18	05.3	0.6	2.30	9	1200	10.8	128.1 316.2				
FEL	E Z ST	P	02	18	08.1	1.2	1.73	4	1220	10.9	121.1 309.9				
BUH	+I Z GT	P	02	18	12.4	1.2	2.10		1250	11.2	125.1 313.8				
KRL	+E Z ST	P	02	18	14.7	1.0	2.00	3	1260	11.3	126.9 315.5				
HEI	E Z ST	P	02	18	14.9	0.8	2.24	4	1270	11.4	129.3 317.7				
TNS	I	P	02	17	24.0				1350	12.1	131.6 320.2				
BNS	E Z FS	PN	02	18	39.1	1.5	1.78	2	1470	13.2	130.7 320.3				

AUG 1970										445		AUG 1970			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S			PER.	LOG. AMP.	S/N	DISTANCE KM DEG.		AZIMUTH STAT. EPIC.				
	E N FS	SN	02	20	57.2										
	E FS	SG	02	22	26.-										
HAM	E Z SX	P	02	18	57.-			1	1550	13.9	145.0 332.9				
AUG 26 USCGS															
H= 09 26 39.8															
LAT = 18.0 S															
LONG = 176.2 W															
DEPTH = 33 KM (NORMAL)															
MAGNITUDE = 4.8															
FIJI ISLANDS REGION															
GRF	-E Z BE	PKP	09	46	29.6				16440	147.8	13.4 350.9				
AUG 26 USCGS															
H= 16 58 02.3															
LAT = 5.8 S															
LONG = 151.2 E															
DEPTH = 59 KM															
MAGNITUDE = 5.6															
NEW BRITAIN REGION															
GRF	E Z BE	PKP	17	16	57.1				13880	124.8	51.2 329.4				
BNS	E Z FS	PKP	17	16	59.5	1.8	2.08	2	14000	125.9	46.2 332.7				
	E Z FS	-	17	17	10.9										
STU	+E Z BE	PKP	17	17	00.1	1.0	2.18	8	14060	126.4	49.6 329.6				
BUH	-E Z GT	PKP	17	17	01.7	0.7	1.60		14120	127.0	48.6 330.0				
AUG 26 USCGS															
H= 20 28 05.6															
LAT = 15.4 S															
LONG = 173.3 W															
DEPTH = 55 KM (GEOPHYSICIST)															
MAGNITUDE = 5.4															
TONGA ISLANDS															
BNS	E Z FS	PKP	20	47	35.-				16070	144.5	0.8 359.5				
	E Z FS	LR	20	57	00.-	40.0									
	FS	MAXIMUM	21	00	00.-	20.0									
GRF	+E Z BE	PKP	20	47	41.1	1.2	1.70	3	16190	145.6	7.7 354.8				
BUH	E Z GT	PKP	20	47	44.-	0.8	1.20		16320	146.8	2.7 358.1				

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AUG 1969 AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 26 USCGS H= 20 43 04.1 LAT = 43.5 N LONG= 147.7 E DEPTH= 21 KM MAGNITUDE= 4.6 KURIL ISLANDS								
GRF	E Z BE	P	20 55 12.7	1.0	1.31	2	8860 79.7	30.6 333.0
AUG 26 USCGS H= 22 47 25.9 LAT = 66.3 N LONG= 17.7 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 ICELAND REGION								
AUG 26 BCIS H= 22 47 19.0 LAT = 66.6 N LONG= 18.0 W NO DEPTH COMPUTED NO MAGNITUDE COMPUTED ICELAND REGION								
BNS	E Z FS	P	22 51 56.4				2210 19.9	330.0 128.5
	E Z FS	-	22 52 08.-	1.5	1.70			
GRF	E Z BE	P	22 52 23.-				2480 22.3	329.0 124.1
AUG 26 USCGS H= 23 39 06.4 LAT = 39.8 N LONG= 144.3 E DEPTH= 35 KM (GEOPHYSICIST) MAGNITUDE= 4.9 OFF EAST COAST OF HONSHU, JAPAN								
GRF	E Z BE	P	23 51 25.-				9100 81.8	34.7 331.4
AUG 27 USCGS H= 00 10 16.9 LAT = 43.6 N LONG= 147.5 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.6 KURIL ISLANDS								
GRF	E Z BE	P	00 22 23.2				8850 79.6	30.7 332.9

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AUG 1969 AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
AUG 27 USCGS H= 01 10 30.1 LAT = 43.6 N LONG= 147.5 E DEPTH= 60 KM (GEOPHYSICIST) MAGNITUDE= 5.0 KURIL ISLANDS								
HAM	+I Z SX	P	01 22 20.7			2	8520 76.7	30.3 335.5
GRF	+E Z HE	P	01 22 33.6	1.0	1.61	4	8840 79.5	30.7 332.8
	-I Z RE	AP	01 22 46.4					
BNS	E Z FS	P	01 22 33.7				8860 79.7	28.1 335.7
	E Z FS	-	01 23 07.-					
	E FS	LR	01 55 00.-					
STU	+E Z BE	P	01 22 40.8	0.8	1.61	4	9000 81.0	29.3 333.5
BUH	+E Z GT	P	01 22 43.-	1.0	1.50		9050 81.4	28.7 334.0
AUG 27 USCGS H= 01 12 55.2 LAT = 43.4 N LONG= 147.7 E DEPTH= 60 KM (GEOPHYSICIST) MAGNITUDE= 5.1 KURIL ISLANDS								
GRF	-I Z BE	P	01 24 59.5	1.0	1.68	5	8870 79.8	30.6 333.0
AUG 27 USCGS H= 01 28 34.1 LAT = 43.6 N LONG= 147.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.7 KURIL ISLANDS								
GRF	+E Z RE	P	01 40 40.2	0.9	1.29	2	8850 79.6	30.6 332.9
AUG 27 USCGS H= 02 31 20.7 LAT = 43.7 N LONG= 147.5 E DEPTH= 40 KM (GEOPHYSICIST) MAGNITUDE= 4.6 KURIL ISLANDS								
GRF	E Z BE	P	02 43 26.2				8840 79.5	30.7 332.8

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 27 USCGS  
 H= 03 26 16.1  
 LAT = 43.7 N  
 LONG= 147.6 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

HAM	E Z SX	P	03 38 04.-			2	8520 76.6	30.1 335.6
GRF	+E Z BE	P	03 38 20.0	1.1	2.06	8	8830 79.5	30.6 332.9
BNS	E Z FS	P	03 38 20.4	1.2	1.95	5	8850 79.6	28.0 335.8
	E Z FS	-	03 38 32.5					
	E FS	-	03 39 11.8					
STU	+E Z BE	P	03 38 27.4	1.0	1.82	4	9000 80.9	29.2 333.6
BUH	+E Z GT	P	03 38 29.5	1.0	1.60		9040 81.3	28.5 334.1

AUG 27 USCGS  
 H= 03 32 37.7  
 LAT = 43.7 N  
 LONG= 147.4 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	+E Z BE	P	03 44 41.8	1.0	1.67	5	8830 79.4	30.7 332.8
BNS	E Z FS	P	03 44 42.2	1.2	1.70	3	8850 79.6	28.1 335.7
	E Z FS	-	03 44 52.5					

AUG 27 USCGS  
 H= 19 23 10.6  
 LAT = 28.7 N  
 LONG= 143.8 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.4  
 BONIN ISLANDS REGION

GRF	+E Z BE	P	19 36 16.8	1.2	1.67	3	10160 91.3	40.3 331.4
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AUG 27 USCGS  
 H= 19 51 02.7  
 LAT = 34.9 N  
 LONG= 141.1 E  
 DEPTH= 67 KM  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

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AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-E Z HE	P	20 03 31.8	0.8	1.20	2	9430 84.8	39.3 330.0
STU	E Z HE	P	20 03 39.3	1.0	1.67	3	9600 86.3	37.8 330.4

AUG 28 USCGS  
 H= 03 58 34.8  
 LAT = 39.1 N  
 LONG= 73.6 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.1  
 TADZHIK-SINKIANG BORDER REGION

GRF	+E Z HE	P	04 06 52.4	1.4	2.18	5	4970 44.7	79.1 305.0
FUR	+E E SL	AP	04 06 55.0	3.4	2.78	9	4990 44.9	77.6 302.9
	-E E SL	-	04 07 18.0	1.8	2.05	4		
	+E E SL	PP	04 10 34.0	1.8	2.16	9		
	+E E SL	XPCP	04 10 47.0	1.7	1.93	6		
	E SL	MAXIMUM	04 28 00.0	12.5	3.70			
STU	E Z BE	P	04 07 02.7	0.8	1.64	4	5130 46.1	76.9 304.1
KRL	E Z ST	P	04 07 07.-				5180 46.6	76.7 304.6
BUH	-E Z GT	P	04 07 04.6	0.8	1.20		5200 46.8	76.2 304.2
BNS	+E Z FS	P	04 07 07.3			2	5220 46.9	77.7 307.5
	E Z FS	-	04 07 29.-	1.8	1.78			
	E FS	-	04 17 31.-					
	E Z SL	LR	04 22 00.-					
	Z SL	MAXIMUM	04 26 00.-	18.0				

AUG 28 USCGS  
 H= 04 06 21.9  
 LAT = 39.2 N  
 LONG= 73.9 E  
 DEPTH= 26 KM  
 MAGNITUDE= 5.1  
 TADZHIK-SINKIANG BORDER REGION

BUH	-E Z GT	P	04 14 50.-	0.6	1.20		5210 46.9	75.9 304.2
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AUG 28 USCGS  
 H= 13 54 11.0  
 LAT = 31.5 S  
 LONG= 177.9 W  
 DEPTH= 29 KM  
 MAGNITUDE= 5.3  
 KERMADEC ISLANDS REGION

GRF	-E Z BE	PKP	14 14 56.4	1.6	2.03	2	17850 160.6	23.9 342.0
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450										AUG 1969		AUG 1969	
STATION	COMP.	PHASE	TIME			PER.	LOG.	S/N	DISTANCE		AZIMUTH		
ABBREV.	SEIS.		H	M	S		AMP.		KM	DEG.	STAT.	EPIC.	
FUR	-E Z SL	PKP	14	14	17.0	1.4	1.36	5	18010	161.9	26.0	339.9	
	-E Z SL	APKP	14	14	27.0	1.0	2.23	9					
	-I Z SL	PKP2	14	15	01.0	1.5	1.23	5					
	-I Z SL	-	14	15	09.0	1.8	1.90	7					
	-I Z SL	-	14	15	29.0	1.8	1.76	3					
	Z SL	MAXIMUM	14	50	30.0	17.0	3.57						
BUH	E Z GT	PKP	14	14	24.-				18040	162.2	17.3	346.7	
AUG 28 USCGS													
H= 16 15 47.2													
LAT = 43.7 N													
LONG= 147.7 E													
DEPTH= 33 KM (NORMAL)													
MAGNITUDE= 4.1													
KURIL ISLANDS													
GRF	+E Z BE	P	16	28	06.-				8850	79.5	30.6	332.9	
AUG 28 USCGS													
H= 16 49 56.8													
LAT = 31.7 S													
LONG= 177.8 W													
DEPTH= 23 KM													
MAGNITUDE= 5.1													
KERMADEC ISLANDS REGION													
GRF	-E Z BE	PKP	17	10	38.6	1.5	1.85	1	17890	160.9	23.9	342.0	
FUR	-I Z SL	PKP2	17	10	42.0	1.5	1.45	9	18040	162.2	26.0	339.9	
	+I Z SL	APKP	17	10	51.0	1.4	1.91	9					
AUG 28 USCGS													
H= 21 35 23.4													
LAT = 43.5 N													
LONG= 147.7 E													
DEPTH= 52 KM													
MAGNITUDE= 4.9													
KURIL ISLANDS													
GRF	-E Z BE	P	21	47	28.6	0.9	1.38	2	8860	79.7	30.7	332.9	
BNS	E Z FS	P	21	47	28.0	2.0	2.00	2	8880	79.9	28.1	335.9	
	E Z FS	-	21	48	56.-								
	E	LR	22	19	00.-								
FUR	+E Z SL	P	21	47	35.0	1.5	0.90	5	9010	81.0	30.6	332.1	
	-E Z SL	XP	21	47	47.0	1.4	1.61	9					
	+E Z SL	XPCP	21	47	54.0	1.3	1.78	3					
	+E Z SL	-	21	48	01.0	1.5	0.90	5					
	E SL	MAXIMUM	22	20	00.0	24.0	3.49						

451										AUG 1969		AUG 1969	
STATION	COMP.	PHASE	TIME			PER.	LOG.	S/N	DISTANCE		AZIMUTH		
ABBREV.	SEIS.		H	M	S		AMP.		KM	DEG.	STAT.	EPIC.	
BUH	E Z GT	P	21	47	37.-	0.6	1.00		9070	81.6	28.6	334.2	
AUG 29 USCGS													
H= 01 02 02.8													
LAT = 43.6 N													
LONG= 147.5 E													
DEPTH= 35 KM (GEOPHYSICIST)													
MAGNITUDE= 4.0													
KURIL ISLANDS													
GRF	-E Z BE	P	01	14	08.6				8840	79.5	30.7	332.8	
AUG 29 USCGS													
H= 03 09 10.4													
LAT = 43.4 N													
LONG= 147.6 E													
DEPTH= 65 KM													
MAGNITUDE= 4.6													
KURIL ISLANDS													
GRF	-E Z BE	P	03	21	14.2	0.9	1.46	2	8870	79.7	30.7	332.9	
	-E Z BE	-	03	21	27.2								
BNS	E Z FS	P	03	21	14.5	1.0	1.48	2	8890	79.9	28.1	335.8	
	E Z FS	-	03	21	38.7								
FUR	-E Z SL	P	03	21	19.0	1.4	1.36	5	9010	81.0	30.6	332.1	
	+E Z SL	PCP	03	21	25.0	1.4	1.43	6					
	+E Z SL	XP	03	21	32.0	1.4	1.36	5					
BUH	+E Z GT	P	03	20	23.-	1.0	1.30		9070	81.6	28.7	334.1	
AUG 29													
NO DETERMINATION OF EPICENTER													
FUR	-E Z SL	-	05	56	30.0	1.4	1.36	3					
	+E Z SL	-	05	56	42.0	1.4	1.36	5					
AUG 29 USCGS													
H= 10 02 49.6													
LAT = 26.3 N													
LONG= 96.1 E													
DEPTH= 73 KM													
MAGNITUDE= 5.4													
BURMA													
GRF	+E Z BE	P	10	13	38.4				7480	67.2	75.8	315.5	
FUR	+E Z SL	P	10	13	40.0	1.3	1.60	4	7520	67.6	75.2	313.8	
	+E Z SL	-	10	13	49.0	1.5	0.90	3					
	-E Z SL	AP	10	14	02.0	1.6	1.08	3					

AUG 1969				452			AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
-E Z SL	XP		10 14 14.0	1.4	1.36	3				
-E Z SL	APCP		10 14 26.0	1.4	1.61	9				
BUH	+E Z GT	P	10 13 51.-	1.0	1.40		7720 69.4	73.4	315.0	
AUG 29 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL	-	11 08 50.0	1.5	1.00	2				
AUG 30 USCGS H= 06 52 34.7 LAT = 43.6 N LONG= 147.9 E DEPTH= 38 KM MAGNITUDE= 5.0 KURIL ISLANDS										
GRF	+E Z BE	P	07 04 40.5	0.9	1.51	4	8860 79.6	30.5	333.0	
FUR	+E Z SL	P	07 04 47.0	1.3	1.78	6	9000 80.9	30.4	332.2	
	+E Z SL	APCP	07 04 58.0	1.4	1.43	3				
AUG 30 USCGS H= 07 11 39.5 LAT = 43.7 N LONG= 147.8 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.4 KURIL ISLANDS										
GRF	+E Z BE	P	07 23 45.2	1.1	1.74	5	8850 79.5	30.5	333.0	
	E Z BE	PP	07 27 08.-							
BNS	+E Z FS	P	07 23 46.-	1.0	2.18	9	8860 79.7	27.9	335.9	
	I Z FS	-	07 23 56.5							
	E Z FS	S	07 33 49.-							
	E Z FS	-	07 34 05.-							
	E Z FS	LR	07 50 00.-							
	FS	MAXIMUM	08 04 00.-	18.0						
FUR	-I Z SL	P	07 23 53.0	1.4	2.00	9	8990 80.8	30.4	332.2	
	+I Z SL	-	07 23 55.0	1.2	2.52	2				
	-I Z SL	PCP	07 23 57.0	1.4	2.00	3				
	-I Z SL	APCP	07 24 04.0	1.4	1.96	2				
	-I Z SL	XPCP	07 24 11.0	1.3	2.30	3				
	-I Z SL	-	07 24 20.0	1.4	2.06	3				
	Z SL	MAXIMUM	08 04 00.0	15.5	4.00					
STU	+E Z BE	P	07 23 52.0	0.9	2.30	2	9010 81.0	29.1	333.7	
KRL	+E Z ST	P	07 24 03.3	1.5	2.35	2	9010 81.0	28.6	334.3	

AUG 1969				453			AUG 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
BUH	+I Z GT	P	07 23 56.2	0.8	1.90		9050 81.4	28.4	334.2	
AUG 30 USCGS H= 07 22 10.9 LAT = 43.6 N LONG= 147.7 E DEPTH= 45 KM (GEOPHYSICIST) MAGNITUDE= 4.6 KURIL ISLANDS										
GRF	-E Z BE	P	07 34 16.2	1.2	1.51	2	8850 79.6	30.5	333.0	
	-E Z BE	PPP	07 40 12.3							
AUG 30 USCGS H= 07 41 43.4 LAT = 43.7 N LONG= 147.9 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.0 KURIL ISLANDS										
GRF	+I Z BE	P	07 53 49.5	1.0	1.38	3	8860 79.6	30.4	333.1	
BNS	E Z X	P	07 53 49.5			2	8870 79.8	27.8	336.0	
	E Z X	-	07 54 01.-							
FUR	-E Z SL	P	07 53 56.0	1.4	1.51	7	9000 80.9	30.3	332.3	
	-E Z SL	-	07 53 58.0	1.3	1.90	4				
	+E Z SL	PCP	07 54 02.0	1.3	1.78	2				
	+E Z SL	XP	07 54 07.0	1.2	2.04	3				
	+E Z SL	XPCP	07 54 15.0	1.3	1.48	2				
	+E Z SL	-	07 54 21.0	1.2	1.74	2				
	+E Z SL	-	07 54 34.0	1.3	1.48	3				
STU	+E Z BE	P	07 53 56.8	0.9	1.70	4	9020 81.1	29.0	333.8	
BUH	+E Z GT	P	07 53 59.4	0.6	1.30		9060 81.5	28.3	334.3	
AUG 30 USCGS H= 07 54 29.5 LAT = 43.4 N LONG= 146.5 E DEPTH= 43 KM MAGNITUDE= 5.5 KURIL ISLANDS										
GRF	+E Z BE	P	08 06 33.2	1.0	1.81	7	8830 79.4	31.4	332.3	
BNS	+I Z FS	P	08 06 33.5	1.0	2.00	7	8850 79.6	28.9	335.2	
	I Z FS	-	08 06 44.5							
FUR	-I Z SL	P	08 06 40.0	1.2	2.28	9	8970 80.7	31.3	331.5	

454

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	-	08 06 43.0	1.3	2.00	2		
	+E Z SL	AP	08 06 51.0	1.2	1.84	2		
STU	+E Z BE	P	08 06 39.8	0.8	2.05	2	8990 80.9	30.0 333.0
BUH	+I Z GT	P	08 06 43.0	0.8	1.70		9040 81.3	29.4 333.5

AUG 30 USCGS  
 H= 08 28 06.5  
 LAT = 43.6 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 KURIL ISLANDS

HAM	E Z WZ	P	08 39 56.-			2	8540 76.8	30.0 335.7
GRF	+E Z BE	P	08 40 17.4	1.2	1.58	3	8860 79.6	30.5 333.0
	E Z BE	-	08 41 28.5					
BNS	+I Z FS	P	08 40 12.8	2.5	2.23	4	8870 79.8	27.9 336.0
	E N FS	-	08 50 31.-					
	E FS	LR	09 13 00.-					
FUR	-I Z SL	P	08 40 19.0	1.3	2.00	9	9000 80.9	30.4 332.2
	-I Z SL	PCP	08 40 24.0	1.2	2.04	2		
	-I Z SL	XP	08 40 32.0	1.5	1.23	3		
	+I Z SL	XPCP	08 40 39.0	1.5	1.35	4		
	-E Z SL	-	08 40 44.0	1.5	1.34	3		
	+I Z SL	-	08 40 56.-	1.4	1.66	3		
	-I Z SL	-	08 41 00.0	1.4	1.96	7		
	+I Z SL	-	08 41 27.0	1.4	1.74	4		
	Z SL	MAXIMUM	09 20 20.0	15.0	3.64			
STU	E Z BE	P	08 40 18.9	0.9	1.87	2	9020 81.1	29.1 333.7
BUH	+I Z GT	P	08 40 21.8	1.2	1.70		9060 81.5	28.4 334.2

AUG 30 USCGS  
 H= 08 37 21.0  
 LAT = 43.8 N  
 LONG= 148.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	E Z BE	P	08 49 27.4				8840 79.5	30.3 333.1
	E Z BE	-	08 57 09.7					

455

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 30 USCGS  
 H= 08 48 08.2  
 LAT = 44.0 N  
 LONG= 147.9 E  
 DEPTH= 40 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	E Z BE	P	09 00 11.8				8820 79.3	30.3 333.0
FUR	+E Z SL	P	09 00 18.0	1.4	1.25	4	8960 80.6	30.2 332.2

AUG 30 USCGS  
 H= 10 02 01.6  
 LAT = 43.9 N  
 LONG= 148.0 E  
 DEPTH= 39 KM  
 MAGNITUDE= 4.5  
 KURIL ISLANDS REGION

GRF	-E Z HE	P	10 14 06.4	1.0	1.31	2	8830 79.4	30.3 333.1
	E Z BE	AP	10 14 19.6					
	E Z HE	-	10 14 49.7					
	E Z HE	-	10 23 47.0					

AUG 30  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	11 38 09.-					
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AUG 30  
 NO DETERMINATION OF EPICENTER

GRF	E Z HE	PG	14 41 10.8					
	E N HE	SG	14 41 31.6					

AUG 30 USCGS  
 H= 18 40 52.1  
 LAT = 43.8 N  
 LONG= 147.9 E  
 DEPTH= 25 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	-E Z BE	P	18 52 58.8	1.0	1.31	2	8840 79.5	30.4 333.0
FUR	+E Z SL	PCP	18 53 08.0	1.5	0.85	4	8980 80.8	30.3 332.2

456

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 31 USCGS  
 H= 10 52 55.3  
 LAT = 18.8 S  
 LONG= 169.0 E  
 DEPTH=207 KM  
 MAGNITUDE= 5.0  
 NEW HEBRIDES ISLANDS

GRF	+E Z BE	PKP	11 12 07.2	0.9	1.46	3	16050 144.4	38.0 335.1
BNS	+I Z FS	PKP	11 12 07.9	1.0	1.85	3	16100 144.8	30.8 340.0
	E Z FS	-	11 12 21.-					
FUR	-I Z SL	PKP	11 12 11.0	1.5	1.45	9	16180 145.5	39.4 333.3
	+E Z SL	APKP	11 13 02.0	1.6	1.08	6		
	-E Z SL	APKP	11 13 08.0	1.7	1.49	4		
STU	+E Z BE	PKP	11 12 11.4	0.9	2.02	8	16230 145.9	35.7 336.0
	E Z BE	APKP	11 13 14.3	1.1	1.92	3		
BUH	+I Z GT	PKP	11 12 13.0	1.3	1.80		16270 146.4	34.3 336.8

AUG 31 USCGS  
 H= 13 05 08.6  
 LAT = 4.5 S  
 LONG= 102.3 E  
 DEPTH= 64 KM  
 MAGNITUDE= 5.5  
 SOUTHERN SUMATRA

GRF	+E Z BE	P	13 18 27.1	1.2	1.51	2	10470 94.1	92.1 319.4
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AUG 31  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	P6	13 56 56.7	0.4	0.89	3		
	E N BE	SG	13 57 15.8					

AUG 31 USCGS  
 H= 19 58 17.4  
 LAT = 18.2 S  
 LONG= 168.1 E  
 DEPTH= 32 KM  
 MAGNITUDE= 4.9  
 NEW HEBRIDES ISLANDS

FUR	+I Z SL	PKP	20 17 52.0	1.4	1.56	8	16080 144.6	40.2 332.9
	+E Z SL	XPKP	20 18 12.0	1.4	1.51	7		
	+E Z SL	-	20 18 27.0	1.5	0.90	2		
	+E Z SL	-	20 18 40.0	1.5	0.90	3		
BUH	+I Z GT	PKP	20 17 53.6	1.0	1.60		16180 145.5	35.2 336.3

457

AUG 1969

AUG 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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AUG 31 USCGS  
 H= 20 48 22.6  
 LAT = 19.8 S  
 LONG= 177.9 E  
 DEPTH=400 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.5  
 FIJI ISLANDS REGION

GRF	E Z BE	PKP	21 07 27.3				16600 149.3	16.9 348.4
FUR	-E Z SL	PKP	21 07 31.0	1.3	1.48	3	16760 150.7	17.8 347.4
	+E Z SL	-	21 07 39.0	1.4	1.26	4		

AUG 31 USCGS  
 H= 22 17 04.7  
 LAT = 43.4 N  
 LONG= 146.7 E  
 DEPTH= 59 KM  
 MAGNITUDE= 4.7  
 KURIL ISLANDS

GRF	+E Z HE	P	22 29 06.9				8840 79.5	31.3 332.4
FUR	+E Z SL	P	22 29 14.0	1.4	1.15	3	8980 80.7	31.2 331.6
	-E Z SL	Xp	22 29 30.0	1.5	0.90	3		
	+E Z SL	XPCP	22 29 37.0	1.5	0.85	4		
STU	E Z HE	P	22 29 13.9	1.0	1.57	2	9000 80.9	29.9 333.1

SEP 01 USCGS  
 H= 05 22 25.9  
 LAT = 20.5 S  
 LONG= 174.4 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.3  
 TONGA ISLANDS

GRF	E Z BE	PKP	05 42 16.5				16730 150.5	10.7 352.6
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SEP 01 USCGS  
 H= 09 45 57.6  
 LAT = 40.5 N  
 LONG= 143.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	09 58 11.4				9010 81.0	34.7 331.0
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SEP 1969 458 SEP 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

SEP 01 USCGS  
 H= 09 49 52.0  
 LAT = 43.1 N  
 LONG= 147.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

GRF	+E Z BE	P	10 01 59.8				8900	80.0	30.8	333.0
	-I Z BE	-	10 02 13.6							
BNS	+E Z FS	P	10 02 01.0				8920	80.2	28.2	335.9
	I Z FS	-	10 02 13.2							
FUR	+E Z SL	P	10 02 06.0	1.7	1.26	4	9040	81.3	30.8	332.1
	-E Z SL	PCP	10 02 10.0	1.5	1.08	1				
	+E Z SL	XP	10 02 19.0	1.5	1.30	6				
	+E Z SL	-	10 02 25.0	1.4	1.66	2				
BUH	+E Z GT	P	10 02 09.2	1.8	2.00		9100	81.9	28.8	334.2

SEP 01  
 NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	12 41 42.1	0.2	1.32	6				
	E N BE	SG	12 42 09.2							

SEP 01 USCGS  
 H= 23 16 10.4  
 LAT = 30.9 N  
 LONG= 49.8 E  
 DEPTH= 28 KM  
 MAGNITUDE= 4.9  
 WESTERN IRAN

FUR	+E Z SL	P	23 22 52.0	1.5	1.11	8	3770	33.9	106.5	311.7
	+E Z SL	AP	23 22 58.0	1.4	1.61	2				
GRF	-E Z BE	P	23 22 57.0				3830	34.4	108.5	314.3

SEP 02 USCGS  
 H= 02 06 18.2  
 LAT = 31.4 S  
 LONG= 177.0 W  
 DEPTH= 26 KM  
 MAGNITUDE= 5.2  
 KERMADEC ISLANDS REGION

GRF	E Z BE	PKP	02 26 58.4				17870	160.7	21.8	343.6
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STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

SEP 02 USCGS  
 H= 03 47 09.1  
 LAT = 27.7 S  
 LONG= 66.5 W  
 DEPTH= 174 KM  
 MAGNITUDE= 5.5  
 CATAMARCA PROVINCE, ARGENTINA

BUH	E Z GT	P	04 00 41.-	1.0	1.30		11240	101.1	240.6	40.7
BNS	E Z FS	PP	04 04 52.-	1.5	1.60	2	11300	101.6	240.3	38.3
FUR	-E Z SL	PP	04 05 00.0	1.7	1.34	5	11410	102.6	242.6	42.1
GRF	E Z BE	P	04 00 53.7				11480	103.3	242.8	40.7
	E Z BE	PP	04 05 07.-							

SEP 02 USCGS  
 H= 04 59 57.4  
 LAT = 57.4 N  
 LONG= 54.9 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 WESTERN RUSSIA

SEP 02 BCIS  
 H= 05 00 00.0  
 LAT = 57.5 N  
 LONG= 54.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 WESTERN RUSSIA

BCIS = PROBABLY ARTIFICIAL.

GRF	E Z BE	P	05 05 40.7				2960	26.6	56.4	272.1
FUR	+E Z SL	P	05 05 48.0	1.5	0.48	2	3060	27.5	53.9	269.3
	-E Z SL	-	05 05 54.0	1.5	0.85	4				
	-E Z SL	PP	05 06 24.0	1.4	1.26	4				
	+E Z SL	PPP	05 06 58.0	1.5	0.70	3				
BNS	E Z FS	P	05 06 27.-			2	3130	28.1	58.0	277.5

SEP 02 USCGS  
 H= 11 41 46.0  
 LAT = 7.1 S  
 LONG= 13.1 W  
 DEPTH= 32 KM  
 MAGNITUDE= 4.9  
 ASCENSION ISLAND REGION

FUR	+E Z SL	P	11 51 45.0	1.3	1.60	2	6570	59.1	208.6	18.8
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SEP 1969				460	SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-E Z SL	-		11 51 48.0	1.4	1.43	2		
+E Z SL	AP		11 51 54.0	1.5	0.90	5		
+E Z SL	-		11 52 10.0	1.5	0.85	4		
SEP 02 USCGS								
H= 15 20 02.8								
LAT = 43.4 N								
LONG= 147.3 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.6								
KURIL ISLANDS								
GRF	-E Z BE	P	15 32 11.6	0.6	1.00	2	8860 79.7	31.0 332.7
FUR	+I Z SL	PCP	15 32 20.0	1.6	1.00	5	9000 81.0	30.9 331.9
	-E Z SL	AP	15 32 25.0	1.4	1.61	3		
	+E Z SL	-	15 32 44.0	1.4	1.36	5		
SEP 03								
NO DETERMINATION OF EPICENTER								
FUR	-I Z SL	P	09 03 19.0	1.3	1.95	9		
SEP 03								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	13 17 06.0	1.6	0.78	3		
	+E Z SL	-	13 17 18.0	1.4	1.43	3		
SEP 03 USCGS								
H= 16 20 21.5								
LAT = 31.5 N								
LONG= 140.2 E								
DEPTH= 16 KM								
MAGNITUDE= 5.3								
SOUTH OF HONSHU, JAPAN								
GRF	-E Z BE	P	16 33 12.2	2.0	2.28	3	9720 87.4	41.6 329.7
	E Z BE	-	16 35 05.2					
BNS	E Z FS	P	16 33 08.-				9790 88.1	38.7 332.5
	E Z FS	-	16 33 15.-					
	E Z FS	LR	17 02 00.-	60.0				
FUR	-E Z SL	P	16 33 17.0	1.8	1.23	3	9840 88.5	41.7 328.6
	-E Z SL	AP	16 33 23.0	1.8	1.45	5		
	E SL	MAXIMUM	17 11 40.0	17.0	3.41			

SEP 1969				461	SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
SEP 03 USCGS								
H= 22 01 31.4								
LAT = 43.1 N								
LONG= 147.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.8								
KURIL ISLANDS								
GRF	-E Z BE	P	22 13 39.6	1.0	1.34	2	8890 80.0	30.9 332.9
SEP 03 USCGS								
H= 22 09 23.1								
LAT = 32.9 N								
LONG= 131.2 E								
DEPTH= 98 KM								
MAGNITUDE= 4.8								
KYUSHU, JAPAN								
GRF	-E Z BE	P	22 21 34.5	0.9	1.38	3	9130 82.1	47.3 325.4
FUR	+E Z SL	P	22 21 40.0	1.4	1.15	3	9240 83.1	47.2 324.2
SEP 04 USCGS								
H= 02 57 14.7								
LAT = 36.5 N								
LONG= 70.9 E								
DEPTH= 221 KM								
MAGNITUDE= 4.8								
HINDU KUSH REGION								
USCGS= FELT IN KABUL.								
FUR	+E Z SL	P	03 05 11.0	1.4	1.15	3	4950 44.5	82.3 304.6
	+E Z SL	-	03 05 31.0	1.9	1.15	2		
	+E Z SL	-	03 05 43.0	1.4	0.95	2		
	+E Z SL	AP	03 05 57.0	1.4	0.95	2		
	+E Z SL	XPCP	03 08 10.0	1.3	1.30	2		
SEP 04 USCGS								
H= 03 08 52.0								
LAT = 46.6 N								
LONG= 153.5 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.4								
KURIL ISLANDS								
HAM	E Z SX	P	03 20 36.-			3	8400 75.6	25.0 338.5
	E Z SX	XP	03 20 48.-			3		
BNS	+I Z FS	P	03 20 51.8	1.2	2.32	9	8730 78.5	22.9 339.0
	E Z FS	PP	03 23 48.-					



SEP 1969

SEP 1969

STATION ABBREV.	CUMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	E FS	S	03 30 36.-					
	E Z SL	SS	03 36 20.-					
	E Z SL	LR	03 47 00.-	45.0				
		SL	MAXIMUM	16.0				
GRF	+E Z HE	P	03 20 53.0	1.2	1.89	4	8740 78.6	25.5 336.1
FUR	-I Z SL	P	03 21 00.0	1.2	2.31	9	8900 80.0	25.4 335.4
	+E Z SL	APCP	03 21 12.0	1.4	2.27	5		
	+E Z SL	-	03 21 34.0	1.4	1.81	2		
	Z SL	MAXIMUM	04 02 35.0	17.0	3.31			
KHL	+E Z ST	P	03 21 01.6	1.5	2.48	3	8900 80.0	23.6 337.5
BUH	+E Z GT	P	03 21 01.7	1.5	2.20		8940 80.4	23.5 337.5

SEP 04 USCGS  
 H= 04 30 17.5  
 LAT = 43.0 N  
 LONG = 146.8 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.7  
 KURIL ISLANDS

FUR	-E Z SL	XP	04 42 44.0	1.2	1.45	2	9020 81.2	31.4 331.7
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SEP 04 USCGS  
 H= 05 38 53.6  
 LAT = 45.5 N  
 LONG = 150.7 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.8  
 KURIL ISLANDS

GRF	-E Z HE	P	05 50 55.2	0.5	0.90		8770 78.8	27.7 334.5
FUR	+E Z SL	P	05 51 03.0	1.4	1.15	3	8920 80.2	27.6 333.8

SEP 04 USCGS  
 H= 17 18 48.8  
 LAT = 35.3 N  
 LONG = 39.1 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.7  
 JORDAN - SYRIA REGION

SEP 1969

SEP 1969

STATION ABBREV.	CUMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 04 BCIS  
 H= 17 18 39.0  
 LAT = 35.0 N  
 LONG = 39.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 JORDAN - SYRIA REGION

FUR	+E Z SL	P	17 24 05.0	1.4	1.36	5	2700 24.3	111.6 310.4
	-E Z SL	XP	17 24 15.0	1.3	1.70	3		
	-E Z SL	-	17 24 28.0	1.5	1.08	7		
	+E Z SL	PP	17 24 43.0	1.4	1.66	5		
	+E Z SL	-	17 25 04.0	1.4	1.36	3		
	+E Z SL	-	17 25 58.0	1.4	1.43	6		
GRF	-E Z HE	P	17 24 09.4	1.3	1.64	1	2770 24.9	114.6 313.8
HAM	E Z SX	P	17 24 24.-			6	3040 27.3	119.7 320.6

SEP 04 USCGS  
 H= 19 25 26.0  
 LAT = 35.1 N  
 LONG = 27.2 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.9  
 DUDECANESE ISLANDS

SEP 04 BCIS  
 H= 19 25 20.0  
 LAT = 34.9 N  
 LONG = 27.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 DUDECANESE ISLANDS

FUR	+E Z SL	P	19 29 32.0	1.2	1.61	3	1960 17.6	132.0 322.6
	-I Z SL	-	19 29 38.0	1.6	1.08	3		
	+E Z SL	-	19 29 50.0	1.5	1.08	4		
	-E Z SL	-	19 30 29.0	1.6	1.15	4		
GRF	E Z HE	P	19 29 43.-				2080 18.7	135.2 326.1
BUH	E Z GT	P	19 29 54.-	0.5	1.00		2170 19.5	127.0 319.8
TNS	I	P	19 30 02.0				2260 20.3	130.8 323.6
BNS	E Z X	P	19 30 19.-			2	2380 21.4	129.9 323.7
	E Z X	-	19 30 36.5					

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 04 USCGS  
H= 21 12 39.5  
LAT = 43.8 N  
LONG= 147.4 E  
DEPTH= 60 KM  
MAGNITUDE= 5.6  
KURIL ISLANDS

GRF	+I Z BE	P	21 24 41.0	0.8	1.91	9	8820 79.3	30.7 332.8
BNS	+I Z FS	P	21 24 41.2	1.5	2.23	7	8830 79.4	28.1 335.7
	E Z FS	-	21 24 50.-					
	E FS	LR	21 56 00.-					
TNS	I	P	21 24 41.5				8860 79.7	28.9 334.6
HEI	+E Z ST	P	21 24 46.0	0.7	2.19	5	8930 80.3	29.0 334.0
FUR	-I Z SL	P	21 24 47.0	1.5	1.51	9	8960 80.6	30.6 331.9
	+I Z SL	AP	21 24 56.0	1.4	2.06	4		
	+I Z SL	XP	21 25 00.0	1.3	2.30	3		
	-I Z SL	-	21 25 25.0	1.3	2.00	3		
	+E Z SL	-	21 25 41.0	1.3	1.95	5		
STU	+I Z BE	P	21 24 47.9	0.5	2.05	7	8980 80.7	29.3 333.5
KRL	+E Z ST	P	21 24 48.9	2.0	2.70	3	8980 80.8	28.8 334.0
BUH	+I Z GT	P	21 24 50.0	1.0	2.10		9020 81.1	28.6 334.0

SEP 04 USCGS  
H= 23 46 51.4  
LAT = 43.5 N  
LONG= 146.5 E  
DEPTH= 87 KM  
MAGNITUDE= 4.6  
KURIL ISLANDS

GRF	-E Z BE	P	23 58 49.8				8820 79.3	31.4 332.3
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SEP 05 USCGS  
H= 00 25 58.9  
LAT = 18.1 S  
LONG= 173.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
TONGA ISLANDS

FUR	+E Z SL	P	00 45 48.0	1.5	0.70	3	16650 149.7	8.5 354.0
	-E Z SL	-	00 46 27.0	1.4	1.26	2		

SEP 1969

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 05  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	08 03 57.0	1.4	1.26	4		
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SEP 05 USCGS  
H= 11 42 14.0  
LAT = 22.7 N  
LONG= 121.7 E  
DEPTH= 33 KM  
MAGNITUDE= 5.6  
TAIWAN REGION

GRF	-E Z BE	P	11 54 49.2	1.7	1.22	3	9480 85.3	60.2 322.4
FUR	-I Z SL	P	11 54 53.0	1.5	1.45	9	9560 86.0	60.2 321.0
	-E Z SL	PCP	11 54 58.0	1.3	1.85	7		
	-I Z SL	XPCP	11 55 11.0	1.5	1.26	9		
	-I Z SL	-	11 55 25.0	1.2	1.91	3		
	+E Z SL	-	11 55 36.0	1.4	1.51	7		
	-E Z SL	-	11 55 55.0	1.5	1.00	3		
	-E Z SL	PP	11 58 13.0	1.9	1.79	5		
	+E Z SL	APP	11 58 22.0	1.6	1.08	6		
	N SL	MAXIMUM	12 53 40.0	10.0	3.38			
TNS	I	P	11 54 54.0				9620 86.5	58.2 323.7
BNS	E Z FS	P	11 54 56.-	2.0	1.95	3	9650 86.8	57.3 324.8
	E Z FS	LR	12 24 30.-					
	FS	MAXIMUM	12 30 00.-	14.0				

SEP 05  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	15 10 14.0	1.3	1.90	8		
	-E Z SL	-	15 10 32.0	1.5	1.08	4		

SEP 05 USCGS  
H= 17 53 49.3  
LAT = 38.9 N  
LONG= 37.1 E  
DEPTH= 53 KM  
MAGNITUDE= 4.4  
TURKEY

FUR	-E Z SL	P	17 58 29.0	1.4	1.15	3	2310 20.8	106.8 304.8
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SEP 1969			TIME		SEP 1969			AZIMUTH	
STATION	COMP.	PHASE	H	M	PER.	LOG.	S/N	DISTANCE	STAT. EPIC.
ABBREV.	SEIS.			S		AMP.		KM DEG.	

SEP 05 USCGS  
 H= 19 49 36.7  
 LAT = 15.8 S  
 LONG= 176.7 W  
 DEPTH=458 KM  
 MAGNITUDE= 4.4  
 FIJI ISLANDS REGION

FUR	+E Z SL	PKP	20 08 30.0	1.4	1.36	5	16350	147.1	14.2	350.2
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SEP 05  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	22 01 12.0	1.6	1.30	2				
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SEP 05 USCGS  
 H= 22 06 16.9  
 LAT = 29.0 N  
 LONG= 128.9 E  
 DEPTH=107 KM  
 MAGNITUDE= 4.9  
 EAST CHINA SEA

FUR	+E Z SL	P	22 18 44.0	1.5	0.90	5	9460	85.0	51.2	323.5
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SEP 06  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	04 39 26.0	1.4	1.26	4				
	-E Z SL	-	04 39 43.0	1.5	0.90	3				

SEP 06 USCGS  
 H= 07 43 29.8  
 LAT = 43.7 N  
 LONG= 147.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 KURIL ISLANDS

HAM	+I Z SX	P	07 55 19.0			2	8510	76.5	30.3	335.4
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GRF	+E Z HE	P	07 55 34.6	0.8	1.65	4	8820	79.3	30.8	332.7
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BNS	+I Z FS	P	07 55 34.8	2.0	2.15	6	8840	79.5	28.2	335.6
	E Z FS	-	07 55 45.5							
	E FS	LR	08 27 00.-							

FUR	-I Z SL	P	07 55 41.0	2.0	1.87	9	8970	80.6	30.7	331.9
	+E Z SL	APCP	07 55 52.0	1.5	1.57	9				
	+E Z SL	XPCP	07 56 03.0	1.4	1.66	3				
	-I Z SL	-	07 56 46.0	1.5	1.18	9				

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SEP 1969			TIME		SEP 1969			AZIMUTH	
STATION	COMP.	PHASE	H	M	PER.	LOG.	S/N	DISTANCE	STAT. EPIC.
ABBREV.	SEIS.			S		AMP.		KM DEG.	

BUH	+I Z GT	P	07 55 43.5	1.0	1.70			9030	81.2	28.7 333.9
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SEP 06  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	08 58 32.2	1.3	1.30	2				
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SEP 06  
 NO DETERMINATION OF EPICENTER

BNS	E Z X	-	10 15 36.-							
	E E X	SG	10 15 43.5	0.8	2.25					

SEP 06  
 NO DETERMINATION OF EPICENTER

GRF	-E Z HE	P	10 53 21.2	0.8	1.20	2				
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SEP 06 USCGS  
 H= 11 41 50.6  
 LAT = 49.5 N  
 LONG= 153.3 E  
 DEPTH=170 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

BNS	E Z FS	P	11 53 20.5	1.5	1.48	3	8440	75.9	22.0	338.7
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FUR	+E Z SL	P	11 53 29.0	1.4	1.66	9	8610	77.4	24.3	335.1
	-E Z SL	-	11 53 33.0	1.5	1.11	3				
	+E Z SL	-	11 53 37.0	1.3	1.85	2				
	+E Z SL	Xp	11 54 22.0	1.5	1.00	6				

BUH	-E Z GT	P	11 53 30.-	1.0	1.40			8640	77.7	22.5 337.2
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SEP 06 BCIS  
 H= 14 30 35.1  
 LAT = 36.9 N  
 LONG= 12.0 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

SEP 06 USCGS  
 H= 14 30 39.5  
 LAT = 36.9 N  
 LONG= 11.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.7  
 NORTH ATLANTIC OCEAN

SEP 1970

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SEP 1970

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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USCGS= FELT AT RABAT AND CASABLANCA, MOROCCO.

FEL	+I Z ST	P	14 34 52.8	2.8	3.53	9	2040 18.4	240.6 47.0
BUH	+I Z GT	P	14 34 58.1	3.0	3.60		2100 18.9	238.9 45.1
KRL	+I Z ST	P	14 35 02.6	3.0	3.95	9	2130 19.2	238.4 44.4
RAV	+E Z ST	P	14 35 03.5	1.7	3.43	5	2140 19.3	243.5 48.9
STU	+I Z BE	P	14 35 05.0	1.2	4.23	7	2170 19.5	240.4 45.8
	+E Z BE	S	14 38 46.4	30.0	4.09	4		
HEI	+I Z ST	P	14 35 05.2	2.4	3.72	9	2170 19.5	238.0 43.7
BNS	+I Z FS	P	14 35 06.5	1.4	3.22	9	2180 19.6	231.6 38.2
	E Z FS	S	14 38 38.-					
	E FS	LR	14 40 10.-	36.0				
TNS	I	P	14 35 09.0				2210 19.8	235.6 41.4
	I	PCP	14 38 57.0					
	I	S	14 39 20.0					
FUR	-I Z SL	P	14 35 16.0	1.4	2.44	9	2270 20.4	245.1 49.3
	-I Z SL	SCP	14 43 08.0	3.5	3.28	2		
	Z SL	MAXIMUM	14 50 20.0	12.5	3.43			
GRF	+E Z BE	P	14 35 22.0	0.8	1.65	4	2340 21.1	241.4 45.4
HLG	E N X	P	14 35 33.5	1.0	2.93	4	2450 22.1	226.5 32.1
	-I Z X	P	14 35 35.1	2.0	3.35	6		
	-I E X	P	14 35 35.1	1.0	3.04	7		
HAM	E Z SX	P	14 35 38.-			6	2500 22.5	231.4 35.7

SEP 06 USCGS  
H= 14 49 55.9  
LAT = 8.8 S  
LONG= 157.8 E  
DEPTH= 15 KM  
MAGNITUDE= 5.8  
SOLOMON ISLANDS

GRF	-E Z BE	PKP	15 09 14.2	2.8	2.57	1	14530 130.7	45.8 331.9
BNS	E Z FS	PKP	15 09 11.2			2	14630 131.5	40.3 335.5
	-I Z FS	-	15 09 16.5	2.3	2.11	4		
	E FS	LR	15 51 00.-					
FUR	+I Z SL	PKP	15 09 12.0	1.5	0.90	5	14650 131.7	46.9 330.4
	+I Z SL	-	15 09 17.0	2.0	2.09	9		
	-E Z SL	APKP	15 09 23.0	1.3	2.18	8		

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 06 USCGS  
H= 16 17 15.5  
LAT = 30.0 N  
LONG= 140.6 E  
DEPTH= 89 KM  
MAGNITUDE= 5.3  
SOUTH OF HONSHU, JAPAN

GRF	+E Z BE	P	16 30 01.5	1.5	1.95	2	9870 88.8	42.1 329.9
FUR	+E Z SL	P	16 30 06.0	1.5	1.11	8	10000 89.9	42.1 328.8
	-E Z SL	-	16 30 11.0	1.5	0.85	4		
	+E Z SL	AP	16 30 23.0	1.4	1.36	3		
STU	E Z BE	P	16 30 07.7	1.5	1.97	3	10050 90.4	40.5 330.3

SEP 06 USCGS  
H= 17 08 03.2  
LAT = 8.9 S  
LONG= 157.9 E  
DEPTH= 10 KM  
MAGNITUDE= 5.8  
SOLOMON ISLANDS

GRF	-E Z BE	PKP	17 27 16.6	1.8	2.00	1	14540 130.8	45.8 331.9
BNS	E Z FS	PKP	17 27 18.4	1.8	1.90	4	14630 131.6	40.3 335.5
	E Z FS	-	17 30 21.-					
	I FS	-	17 30 44.5					
FUR	+I Z SL	PKP	17 27 19.0	1.6	1.43	9	14650 131.8	46.9 330.4
	-I Z SL	APKP	17 27 23.0	1.5	1.23	9		
	+E Z SL	-	17 27 51.0	1.5	1.00	6		
	+I Z SL	PP	17 29 42.0	1.5	1.00	3		
	-E Z SL	APP	17 29 48.0	1.8	1.53	3		
	+E Z SL	PKS	17 30 45.0	1.4	1.51	2		
BUH	E Z GT	PKP	17 27 20.-	2.5	2.30		14770 132.9	43.0 332.8

SEP 06 USCGS  
H= 18 58 39.1  
LAT = 43.3 N  
LONG= 146.7 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.3  
KURIL ISLANDS

GRF	-E Z BE	P	19 10 55.9	0.7	1.11	2	8850 79.6	31.4 332.4
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SEP 1969				470		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
SEP 06 USCGS H= 20 30 39.6 LAT = 36.8 N LONG= 28.4 E DEPTH= 67 KM MAGNITUDE= 5.1 DODECANESE ISLANDS									
SEP 06 BCIS H= 20 30 42.0 LAT = 36.8 N LONG= 28.3 E DEPTH= 85 KM NO MAGNITUDE COMPUTED DODECANESE ISLANDS									
FUR	+I Z SL	P	20 34 35.0	1.4	1.96	9	1890 17.0	126.0 317.6	
	-I Z SL	PP	20 34 54.0	1.3	2.04	3			
	-I Z SL	PPP	20 34 58.0	1.2	2.34	5			
	+E Z SL	-	20 35 10.0	1.4	1.89	6			
	-E Z SL	-	20 35 48.0	1.3	2.26	9			
GRF	+E Z BE	P	20 34 46.3	0.5	1.26	2	1990 17.9	129.7 321.5	
STU	+E Z BE	P	20 34 51.0	1.0	2.67	3	2050 18.4	123.5 316.6	
BUH	+I Z GT	P	20 34 56.8	1.0	2.20		2100 18.9	121.6 315.3	
KRL	-E N ST	P	20 35 01.6				2110 19.0	122.7 316.4	
	+E Z ST	-	20 35 02.1	1.0	2.19	2			
TNS	I	P	20 35 04.0				2190 19.7	125.6 319.5	
BNS	+E Z FS	P	20 35 15.8	2.0	2.20	6	2310 20.8	125.0 319.9	
HAM	+I Z SX	P	20 35 20.5			2	2340 21.1	135.1 328.3	
	E Z SX	AP	20 35 36.0			2			
SEP 06 NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	P	20 42 46.0	1.4	1.36	3			
GRF	-E Z BE	P	20 42 48.4						
SEP 06 USCGS H= 22 09 30.6 LAT = 18.7 S LONG= 169.2 E DEPTH=233 KM MAGNITUDE= 4.9 NEW HEBRIDES ISLANDS									
GRF	+E Z BE	PKP	22 28 39.6	0.8	1.18		16060 144.4	37.6 335.3	

SEP 1969				471		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
BNS	+I Z FS	PKP	22 28 40.4	1.0	1.70	4	16100 144.8	30.5 340.2	
FUR	+E Z SL	PKP	22 28 44.0	1.8	1.36	4	16190 145.6	39.1 333.6	
	+E Z SL	PKP2	22 28 48.0	1.4	1.26	2			
	+E Z SL	APKP	22 29 51.0	1.6	1.00	3			
BUH	+I Z GT	PKP	22 28 45.6	0.8	1.50		16280 146.4	33.9 337.0	
SEP 07 USCGS H= 00 23 44.8 LAT = 33.6 N LONG= 131.5 E DEPTH= 91 KM MAGNITUDE= 5.2 KYUSHU, JAPAN									
GRF	+E Z BE	P	00 35 54.5	1.1	1.57	2	9080 81.6	46.8 325.5	
FUR	+I Z SL	P	00 36 00.0	1.4	1.74	9	9190 82.6	46.7 324.3	
BUH	+I Z GT	P	00 36 04.8	1.4	1.90		9310 83.7	44.6 326.1	
SEP 07 USCGS H= 03 06 02.2 LAT = 8.9 S LONG= 157.7 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.6 SOLOMON ISLANDS									
FUR	+I Z SL	PKP	03 25 14.0	1.5	0.90	5	14650 131.7	47.0 330.3	
	+E Z SL	APKP	03 25 20.0	1.5	0.90	3			
BUH	E Z GT	PKP	03 25 16.0	2.0	1.80		14770 132.8	43.1 332.7	
SEP 07 NO DETERMINATION OF EPICENTER									
BNS	+I Z FS	P	05 35 58.5	1.4	1.60	3			
SEP 07 USCGS H= 06 21 05.1 LAT = 9.0 S LONG= 158.0 E DEPTH= 35 KM MAGNITUDE= 5.2 SOLOMON ISLANDS									
FUR	+E Z SL	PKP	06 40 03.0	1.4	1.51	7	14670 132.0	46.8 330.4	

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 07 USCGS  
H= 08 40 34.3  
LAT = 6.6 S  
LONG= 155.8 E  
DEPTH=173 KM  
MAGNITUDE= 5.3  
SOLOMON ISLANDS

GRF	E Z BE	PKP	08 59 20.-				14200 127.7	46.8 331.6
BNS	E Z FS	PKP	08 59 23.4	1.4	1.30	2	14300 128.6	41.5 335.1
FUR	+I Z SL	PKP	08 59 24.0	1.4	1.26	4	14320 128.7	47.7 330.1
BUH	-E Z GT	PKP	08 59 26.-	1.0	1.60		14440 129.8	44.0 332.4

SEP 07 BCIS  
H= 15 19 49.0  
LAT = 44.6 N  
LONG= 17.4 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
YUGOSLAVIA

FUR	-E Z SL	SN	15 22 20.0	1.3	1.60	4	620 5.5	127.8 312.3
	+E Z SL	SG	15 22 43.0	1.3	1.70	5		
	Z SL	MAXIMUM	15 23 25.0	1.4	1.36			
GRF	+E Z BE	P	15 21 56.2				740 6.6	138.1 322.6

SEP 07 USCGS  
H= 18 43 37.8  
LAT = 43.4 N  
LONG= 148.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
KURIL ISLANDS REGION

GRF	E Z BE	P	18 55 45.6	1.4	1.70	2	8880 79.9	30.4 333.2
BNS	E Z FS	P	18 55 46.3			2	8900 80.0	27.8 336.1
FUR	+E Z SL	P	18 55 52.0	1.4	1.26	4	9030 81.2	30.3 332.4
	+E Z SL	AP	18 56 00.0	1.3	1.70	3		
	+E Z SL	-	18 56 08.0	1.5	0.90	5		
	+E Z SL	XPCP	18 56 12.0	1.5	1.08	4		
BUH	-E Z GT	P	18 55 50.-	1.6	0.70		9090 81.7	28.3 334.4

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 08 USCGS  
H= 02 37 59.2  
LAT = 43.1 N  
LONG= 147.3 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.2  
KURIL ISLANDS

GRF	E Z BE	P	02 50 10.5				8880 79.9	31.1 332.8
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SEP 08 USCGS  
H= 04 59 56.1  
LAT = 57.4 N  
LONG= 55.1 E  
DEPTH= 0 KM (GEOPHYSICIST)  
MAGNITUDE= 4.9  
URAL MOUNTAINS REGION

SEP 08 BCIS  
H= 04 59 55.0  
LAT = 57.3 N  
LONG= 56.0 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
URAL MOUNTAINS REGION

BCIS = PROBABLY ARTIFICIAL.

GRF	E Z BE	P	05 05 40.8				2980 26.8	56.5 272.4
FUR	+E Z SL	P	05 05 49.0	1.5	0.90	5	3070 27.6	54.0 269.6
	-E Z SL	-	05 06 24.0	1.2	1.84	3		
BUH	+I Z GT	P	05 06 00.5	0.7	1.20		3220 29.0	54.7 273.0

SEP 08  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	06 06 33.6					
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SEP 08 USCGS  
H= 12 45 34.6  
LAT = 5.1 S  
LONG= 153.4 E  
DEPTH= 47 KM  
MAGNITUDE= 5.2  
NEW IRELAND REGION

GRF	-E Z BE	PKP	13 04 33.4	0.8	1.57	3	13940 125.3	48.4 330.8
BNS	I Z FS	PKP	13 04 34.6	1.0	1.85	5	14050 126.3	43.4 334.1



SEP 1969				474		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
FUR	-I Z SL	PKP	13 04 35.0	1.2	2.0 <sup>4</sup>	4	14050 126.3	49.3	329.3
	+I Z SL	-	13 04 38.0	1.3	2.0 <sup>8</sup>	2			
SEP 08 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	PG	13 49 52.8						
SEP 08 NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	-	16 01 35.0	1.3	1.60	4			
	+E Z SL	-	16 01 56.0	1.4	1.3 <sup>6</sup>	2			
SEP 08 USCGS H= 20 57 36.7 LAT = 43.6 N LONG= 147.9 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 KURIL ISLANDS									
GRF	E Z BE	P	21 09 46.-				8860 79.6	30.4	333.0
SEP 09 USCGS H= 05 15 37.7 LAT = 35.7 N LONG= 137.0 E DEPTH= 29 KM MAGNITUDE= 5.5 HONSHU, JAPAN									
USCGS= 10 INJURED AND MINOR PROPERTY DAMAGE IN GIFU PREFECTURE, MAG. 6 (PAS).									
HAM	E Z SX	-	05 27 53.-			2	8900 80.0	41.2	331.0
GRF	-E Z BE	P	05 27 58.4	0.8	1.34	3	9150 82.3	41.8	327.9
BNS	E Z FS	P	05 28 02.5				9230 83.0	39.0	330.7
	I Z FS	-	05 28 06.5	1.0	2.25				
	E FS	SP	05 39 12.-						
FUR	-I Z SL	PCP	05 28 08.0	1.2	2.25	7	9280 83.4	41.7	326.8
	+I Z SL	XPCP	05 28 22.0	1.4	2.02	2			
	+I Z SL	-	05 28 33.0	1.4	1.91	9			
	+I Z SL	-	05 28 43.0	1.5	1.30	6			
	+I Z SL	-	05 29 11.0	1.5	1.62	3			
	Z SL	MAXIMUM	06 09 00.0	13.5	4.01				
STU	+E Z BE	P	05 28 05.5	0.5	1.3 <sup>4</sup>	1	9330 83.9	40.3	328.3

SEP 1969				475		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
KRL	+E Z ST	P	05 28 14.0	1.0	2.60		9350 84.0	39.8	328.8
BUH	+E Z GT	P	05 28 09.5	2.0	2.20		9380 84.4	39.6	328.7
SEP 09 NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	15 03 44.0	1.4	1.2 <sup>6</sup>	4			
	-E Z SL	-	15 03 51.0	1.6	1.0 <sup>8</sup>	3			
SEP 09 USCGS H= 23 52 33.4 LAT = 42.9 N LONG= 147.2 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.1 OFF COAST OF HOKKAIDO, JAPAN									
FUR	-E Z SL	P	00 04 49.0	1.4	1.2 <sup>6</sup>	4	9040 81.3	31.1	331.9
SEP 10 BCIS H= 03 26 58.0 LAT = 46.4 N LONG= 8.2 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED SWITZERLAND									
BUH	+I Z GT	P	03 27 34.8	0.1	1.10		250 2.3	180.5	0.5
STU	+E Z BE	PG	03 27 46.9	0.7	2.0 <sup>4</sup>	5	270 2.5	196.2	15.5
FUR	-E Z SL	PG	03 27 53.0	1.6	0.60	4	300 2.7	231.0	48.7
	+E Z SL	SG	03 28 16.0	1.1	1.6 <sup>8</sup>	3			
	Z SL	MAXIMUM	03 29 25.0	1.5	1.1 <sup>8</sup>				
GRF	E Z BE	PG	03 28 12.-				430 3.9	212.7	30.4
	E N BE	SG	03 29 02.-						
SEP 10 USCGS H= 07 46 57.9 LAT = 44.0 N LONG= 148.1 E DEPTH= 54 KM MAGNITUDE= 4.9 KURIL ISLANDS									
GRF	E Z BE	P	07 59 02.-				8830 79.4	30.1	333.1
FUR	-E Z SL	P	07 59 07.0	1.6	1.00	5	8970 80.7	30.0	332.3
	-E Z SL	AP	07 59 15.0	1.4	1.66	2			

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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*E Z SL	XPCP		07 59 31.0	1.5	1.11	1		
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SEP 10 USCGS

H= 12 14 00.4  
 LAT = 39.2 N  
 LONG= 41.4 E  
 DEPTH= 50 KM  
 MAGNITUDE= 5.2  
 TURKEY

SEP 10 BCIS

H= 12 14 00.0  
 LAT = 39.3 N  
 LONG= 41.3 E  
 DEPTH= 33 KM (NORMAL)  
 NO MAGNITUDE COMPUTED  
 TURKEY

FUR	-I Z SL	P	12 19 06.0	1.9	2.46	9	2610 23.5	101.3 302.3
	+I Z SL	AP	12 19 12.0	1.7	2.11	9		
	+I Z SL	PP	12 19 31.0	1.8	2.17	3		
	-I Z SL	-	12 19 39.0	1.5	1.43	8		
	+I Z SL	-	12 20 47.0	2.0	2.06	7		
	N SL	MAXIMUM	12 29 00.0	16.0	3.39			
GRF	+E Z BE	P	12 19 10.9	1.8	2.54	6	2650 23.8	104.6 306.0
STU	+E Z BE	P	12 19 19.0	1.0	1.82	3	2770 24.9	100.5 303.2
KRL	+E Z ST	P	12 19 26.-	3.0	2.90		2830 25.5	100.2 303.5
BUH	+E Z GT	P	12 19 25.0	1.0	1.50		2840 25.5	99.3 302.7
TNS	I	P	12 19 27.0				2860 25.7	102.7 306.3
HAM	E Z SX	P	12 19 28.-			1	2860 25.8	110.9 314.0
	E Z SX	AP	12 19 38.5			2		
BNS	+I Z FS	P	12 19 36.5	2.0	2.05	4	2960 26.7	102.8 307.5
	E Z FS	S	12 24 38.-					
	E FS	LR	12 27 00.-	35.0				

 SEP 10  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	12 57 19.8					
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 SEP 10  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	15 29 52.2					
	E N BE	Sg	15 30 13.0					

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 10  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	16 25 48.0	1.3	1.85	7		
	-E Z SL	-	16 26 03.0	1.5	1.08	2		

SEP 10 USCGS

H= 21 00 00.1  
 LAT = 39.4 N  
 LONG= 107.9 W  
 DEPTH= 0 KM  
 MAGNITUDE= 5.3  
 COLORADO

 USCGS= 39 DEG 24 MIN 21 SEC N, 107 DEG 56 MIN 53 SEC W  
 PROJECT #RULISON# (AEC).

BUH	E Z GT	P	21 11 47.-	1.0	1.30		8420 75.7	314.2 37.9
GHF	-E Z BE	P	21 11 51.6	1.0	1.30		8490 76.4	315.9 35.7
FUR	+E Z SL	P	21 11 59.0	1.5	1.00	6	8620 77.5	316.2 36.8

 SEP 11  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	00 32 50.0	1.5	0.70	3		
	-E Z SL	-	00 32 54.0	1.5	0.85	2		
	+E Z SL	-	00 33 23.0	1.6	1.00	3		

SEP 11 USCGS

H= 03 17 00.1  
 LAT = 26.1 N  
 LONG= 128.5 E  
 DEPTH= 25 KM  
 MAGNITUDE= 5.3  
 RYUKYU ISLANDS

GRF	+E Z BE	P	03 29 42.1	0.8	1.34	2	9590 86.3	53.2 324.7
FUR	+E Z SL	P	03 29 47.0	2.1	2.06	6	9690 87.1	53.2 323.4
	+I Z SL	AP	03 29 57.0	1.5	1.57	6		
	E Z SL	XPCP	03 30 06.0	1.5	1.11	3		
	-E Z SL	-	03 30 20.0	1.3	1.85	2		
	N SL	MAXIMUM	04 13 00.0	13.5	2.92			
BNS	E Z X	P	03 29 50.8			2	9730 87.5	50.2 327.3
	Z X	LR	04 10 00.-					
	X	MAXIMUM	04 14 00.-	12.0				
BUH	-E Z GT	P	03 29 55.-	0.8	1.30		9830 88.4	51.0 325.1

SEP 1969

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 11 USCGS

H= 04 01 57.1

LAT = 49.7 N

LONG= 78.1 E

DEPTH= 0 KM (GEOPHYSICIST)

MAGNITUDE= 5.0

EASTERN KAZAKH SSR

FUR	-1 Z SL	P	04 09 58.0	1.3	1.70	5	4740 42.6	61.9 294.6
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SEP 11

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	13 03 20.4					
	E N BE	SG	13 03 46.6					

SEP 11

NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	17 56 40.0	1.1	2.11	8		
	-E Z SL	-	17 56 44.0	1.4	1.51	2		
	-E Z SL	-	17 56 57.0	1.4	1.66	3		

SEP 12 USCGS

H= 02 15 32.1

LAT = 43.4 N

LONG= 146.4 E

DEPTH= 62 KM

MAGNITUDE= 4.8

KURIL ISLANDS

GRF	E Z BE	P	02 27 33.4	0.8	1.18	2	8820 79.3	31.5 332.3
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SEP 12 USCGS

H= 03 14 44.9

LAT = 18.6 S

LONG= 174.9 W

DEPTH=134 KM

MAGNITUDE= 5.1

TONGA ISLANDS

BNS	I Z X	PKP	03 34 15.5	1.2	2.20	5	16420 147.7	3.6 357.6
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GRF	-E Z BE	PKP	03 34 18.3	0.5	1.04	3	16530 148.6	11.1 352.4
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BUH	+E Z GT	PKP	03 34 15.-	1.8	1.70		16670 149.9	5.9 355.9
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FUR	+I Z SL	PKP	03 34 21.0	1.3	2.20	9	16690 150.1	11.7 351.7
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	-E Z SL	PKP	03 34 26.0	1.4	1.66	2		
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	-E Z SL	APKP	03 34 53.0	1.4	1.36	2		
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	E Z SL	APKP	03 35 06.0	1.5	1.00	3		
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 12 USCGS

H= 05 08 01.6

LAT = 36.4 N

LONG= 70.9 E

DEPTH=198 KM

MAGNITUDE= 5.1

HINDU KUSH REGION

USCGS= FELT IN KABUL.

FUR	-E Z SL	-	05 16 16.0	1.5	0.85	2	4960 44.6	82.5 304.6
	+E Z SL	AP	05 16 35.0	1.5	1.00	2		

BUH	+E Z GT	P	05 16 54.-	1.3	1.60		5170 46.5	81.0 305.8
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SEP 12

NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	05 09 35.0	1.4	1.26	2		
	+E Z SL	-	05 09 40.0	1.4	1.36	3		

SEP 12 USCGS

H= 07 15 50.0

LAT = 51.3 N

LONG= 179.2 W

DEPTH= 44 KM

MAGNITUDE= 5.0

ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	-E Z BE	P	07 27 52.1	1.0	1.91	7	8790 79.0	6.6 353.1
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FUR	+E Z SL	P	07 28 00.0	1.4	1.36	5	8960 80.6	6.7 352.9
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SEP 12 USCGS

H= 07 42 43.7

LAT = 51.1 N

LONG= 179.1 W

DEPTH= 48 KM

MAGNITUDE= 5.0

ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	-E Z BE	P	07 54 45.4	1.0	1.79	5	8810 79.2	6.6 353.2
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FUR	-E Z SL	P	07 54 52.0	1.3	1.60	2	8980 80.7	6.6 353.0
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 12 USCGS

H= 08 00 16.8

LAT = 51.1 N

LONG = 179.3 W

DEPTH = 49 KM

MAGNITUDE = 5.2

ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	E Z FS	P	08 12 12.-			2	8690 78.2	4.2 355.8
GRF	+E Z BE	P	08 12 18.4				8810 79.2	6.7 353.1
FUR	-E Z SL	P	08 12 26.0	1.2	1.84	2	8970 80.7	6.7 352.8
	+E Z SL	XP	08 12 41.0	1.3	1.70	3		

SEP 12 USCGS

H= 08 06 08.8

LAT = 51.1 N

LONG = 179.2 W

DEPTH = 55 KM

MAGNITUDE = 5.0

ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	-E Z BE	P	08 18 10.0				8810 79.2	6.7 353.1
FUR	+E Z SL	P	08 18 16.0	1.4	1.26	4	8980 80.7	6.7 352.9
	-E Z SL	-	08 18 19.0	1.3	1.78	3		

SEP 12 USCGS

H= 08 09 24.4

LAT = 51.1 N

LONG = 179.2 W

DEPTH = 46 KM

MAGNITUDE = 5.1

ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	-I Z FS	P	08 21 20.6			2	8690 78.2	4.1 355.9
GRF	-E Z BE	P	08 21 26.6				8810 79.2	6.7 353.1
FUR	-E Z SL	P	08 21 34.0	1.3	1.78	6	8980 80.7	6.7 352.9

SEP 12 USCGS

H= 08 57 07.3

LAT = 51.2 N

LONG = 179.2 W

DEPTH = 48 KM

MAGNITUDE = 6.0

ANDREANOF ISLANDS, ALEUTIAN IS.

HLG	I N X	P	09 08 46.-	1.0	2.67	3	8320 74.8	4.6 355.7
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	I Z X	P	09 08 46.2	1.2	2.76	3		
	E X	P	09 08 47.2	1.6	2.49	1		
HAM	E Z SX	P	09 08 49.-			2	8390 75.4	5.9 354.4
BNS	+I Z FS	P	09 09 02.6	1.4	2.68	9	8680 78.1	4.1 355.9
	E E FS	S	09 18 56.-					
	E FS	-	09 19 28.-					
	E Z SL	-	09 23 50.-					
	E Z SL	LR	09 34 00.-	40.0				
	SL	MAXIMUM	09 50 00.-	19.0				
TNS	I	P	09 09 05.3				8750 78.7	4.9 355.0
GRF	+E Z BE	P	09 09 08.3	1.0	1.85	6	8790 79.1	6.6 353.2
KRL	+E Z ST	P	09 09 13.8				8890 79.9	4.8 354.9
STU	E Z BE	P	09 09 13.8	1.0	2.61	4	8910 80.1	5.3 354.4
FUR	-I Z SL	P	09 09 16.0	1.0	2.32	9	8960 80.6	6.6 352.9
	+I Z SL	-	09 09 18.0	1.4	2.13	4		
	+E Z SL	PCP	09 09 23.0	1.3	2.60	2		
	+E Z SL	AP	09 09 27.0	1.3	2.54	1		
	-E Z SL	XP	09 09 31.0	1.3	2.45	3		
	-I Z SL	-	09 09 56.0	2.2	2.27	3		
	+I Z SL	-	09 10 19.0	1.4	1.98	3		
	+I Z SL	-	09 11 56.0	1.4	1.84	3		
	+E Z SL	PP	09 12 29.0	1.4	1.77	2		
	+E Z SL	-	09 13 09.0	1.4	1.77	7		
	Z SL	MAXIMUM	09 54 45.0	15.0	3.94			

SEP 12 USCGS

H= 15 00 18.8

LAT = 51.3 N

LONG = 179.2 W

DEPTH = 53 KM

MAGNITUDE = 5.6

ANDREANOF ISLANDS, ALEUTIAN IS.

BNS	+I Z FS	P	15 12 12.8	1.0	2.08	8	8670 78.0	4.1 355.9
	E Z FS	-	15 12 16.8					
GRF	+E Z BE	P	15 12 18.8	0.9	1.72	5	8780 79.0	6.6 353.2
BUH	+I Z GT	P	15 12 24.7	0.9	1.90		8920 80.2	4.7 355.0
FUR	-I Z SL	P	15 12 27.0	1.5	1.34	9	8950 80.5	6.6 352.9
	-E Z SL	-	15 13 25.0	1.4	1.36	5		

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SFP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 13 USCGS  
 H= 00 34 38.4  
 LAT = 24.5 S  
 LONG= 179.9 E  
 DEPTH=579 KM  
 MAGNITUDE= 4.9  
 SOUTH OF FIJI ISLANDS

FUR	-E Z SL	PKP	00 53 27.0	1.4	1.15	3	17200 154.7	24.9 341.9
	-I Z SL	PKP2	00 53 54.0	1.4	1.56	8		
BUH	+E Z GT	PKP	00 53 55.-	1.0	1.80		17230 155.0	18.3 346.8

SEP 13 USCGS  
 H= 11 19 03.0  
 LAT = 33.8 N  
 LONG= 141.6 E  
 DEPTH= 35 KM  
 MAGNITUDE= 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	11 31 41.6	1.2	1.67	2	9560 85.9	39.5 330.3
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SEP 13 USCGS  
 H= 11 52 15.3  
 LAT = 43.5 N  
 LONG= 147.6 E  
 DEPTH= 52 KM  
 MAGNITUDE= 5.5  
 KURIL ISLANDS

HAM	E Z SX	P	12 04 05.-			3	8540 76.8	30.2 335.6
	E Z WZ	AP	12 04 18.-			4		
GRF	+E Z BE	P	12 04 19.5	1.1	1.65	2	8850 79.6	30.7 332.9
BNS	E Z FS	P	12 04 18.0	1.1	2.20	9	8870 79.8	28.1 335.8
	E Z FS	-	12 04 30.8					
	E FS	LR	12 37 00.-					
TNS	I	P	12 04 22.0				8900 80.0	28.9 334.7
FUR	-E Z SL	P	12 04 26.0	1.7	1.88	9	9000 80.9	30.6 332.1
	-I Z SL	XP	12 04 39.0	1.4	1.96	2		
	-I Z SL	-	12 05 14.0	1.4	1.61	3		
	-I Z SL	-	12 05 29.0	1.4	1.66	3		
STU	+E Z BE	P	12 04 26.5	1.0	2.21	2	9020 81.1	29.3 333.6
BUH	+I Z GT	P	12 04 28.5	1.0	1.70		9060 81.5	28.6 334.1

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SFP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 13  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	17 46 04.0	1.3	1.45	3		
	+E Z SL	-	17 46 22.0	1.4	2.00	4		

SEP 13 USCGS  
 H= 23 01 26.1  
 LAT = 51.4 N  
 LONG= 179.3 W  
 DEPTH= 36 KM  
 MAGNITUDE= 4.6  
 ANDREANOF ISLANDS, ALEUTIAN IS.

FUR	-E Z SL	PCP	23 13 39.0	1.5	0.90	3	8950 80.4	6.7 352.9
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SEP 14 USCGS  
 H= 01 15 22.8  
 LAT = 47.0 N  
 LONG= 153.6 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	-E Z BE	P	01 27 21.7	0.6	1.04	2	8710 78.3	25.2 336.1
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SEP 14 USCGS  
 H= 06 11 55.8  
 LAT = 43.5 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.4  
 KURIL ISLANDS

GRF	E Z BE	P	06 24 06.-				8870 79.7	30.6 333.0
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SEP 14 USCGS  
 H= 12 49 12.2  
 LAT = 43.5 N  
 LONG= 147.6 E  
 DEPTH= 53 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	-E Z BE	P	13 01 17.2	0.8	1.72		8860 79.7	30.7 332.9
BNS	E Z FS	P	13 01 17.0				8880 79.8	28.1 335.8
	-I Z FS	-	13 01 19.2	1.0	2.00	7		
	E FS	-	13 01 30.0					

4A4

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPTC.
FUR	-E Z SL	P	13 01 25.0	1.5	1.23	9	9000	81.0	30.6 332.1
	+I Z SL	AP	13 01 37.0	1.3	1.90	4			
	+I Z SL	XPCP	13 01 52.0	1.4	1.83	3			

SEP 14 USCGS

H= 14 46 21.1  
 LAT = 39.6 N  
 LONG = 74.9 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.1  
 SOUTHERN SINKIANG PROV., CHINA

SEP 14 BCIS

H= 14 46 21.0  
 LAT = 39.6 N  
 LONG = 74.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 SOUTHERN SINKIANG PROV., CHINA

GRF	-E Z BE	P	14 54 36.5				5020	45.1	77.6 304.8
	-E Z BE	-	14 54 49.-						
FUR	+E Z SL	P	14 54 39.0	1.8	1.60	4	5050	45.4	76.2 302.7
	-E Z SL	AP	14 54 48.0	1.7	1.65	3			
	-I Z SL	XP	14 54 54.0	1.2	2.22	3			
	-I Z SL	-	14 55 00.0	1.3	2.00	2			
	-E Z SL	PCP	14 56 19.0	1.4	1.61	5			
	+E Z SL	APCP	14 56 32.0	1.5	1.08	2			
	+I Z SL	XPP	14 56 44.0	1.5	1.23	5			
	+I Z SL	-	14 56 49.0	1.4	1.66	5			
	+E Z SL	-	14 57 21.0	1.5	0.90	5			
	+E Z SL	-	14 57 27.0	1.6	1.00	3			
	+E Z SL	-	14 57 37.0	1.2	2.14	9			
BUH	E Z GT	P	14 54 52.-	0.8	1.00		5250	47.3	74.9 304.0
BNS	+E Z FS	P	14 55 05.7	2.0	2.08	4	5260	47.3	76.3 307.3
	E FS	-	14 56 57.-						
	E FS	-	15 05 34.-						

SEP 14 USCGS

H= 16 15 24.8  
 LAT = 39.7 N  
 LONG = 74.9 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 5.5  
 SOUTHERN SINKIANG PROV., CHINA

4A5

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPTC.
SEP 14 BCIS									
			H= 16 15 25.0						
			LAT = 39.6 N						
			LONG = 75.0 E						
			NO DEPTH COMPUTED						
			NO MAGNITUDE COMPUTED						
			SOUTHERN SINKIANG PROV., CHINA						
GRF	+E Z BE	P	16 23 39.8	0.8	1.26		5010	45.1	77.6 304.7
HAM	E Z SX	-	16 24 38.-			3	5020	45.1	80.4 310.2
FUR	-I Z SL	P	16 23 42.0	1.0	2.58	9	5050	45.4	76.1 302.6
	-I Z SL	-	16 23 45.0	1.0	2.76	9			
	+I Z SL	AP	16 23 52.0	1.5	1.52	4			
	-I Z SL	XP	16 23 56.0	1.3	2.18	3			
	+E Z SL	-	16 24 01.0	1.4	1.74	4			
	+I Z SL	PP	16 25 29.0	1.5	1.23	5			
	+I Z SL	APCP	16 25 33.0	2.0	2.02	7			
	+I Z SL	XPCP	16 25 37.0	1.4	1.74	6			
	+I Z SL	PPP	16 26 12.0	1.5	1.30	6			
	+E Z SL	-	16 26 30.0	1.5	1.23	9			
	-I Z SL	-	16 26 37.0	1.2	2.14	3			
	+I Z SL	-	16 26 42.0	1.4	1.66	5			
STU	+E Z BE	P	16 23 50.7	0.7	2.15	3	5180	46.6	75.5 303.9
TNS	E	P	16 23 57.0				5190	46.7	76.3 306.0
KRL	-E Z ST	P	16 23 56.-	1.0	2.10		5230	47.0	75.2 304.4
BUH	+I Z GT	P	16 23 55.7	1.0	1.70		5250	47.2	74.8 304.0
BNS	+E Z FS	P	16 23 57.-				5260	47.3	76.2 307.3
	I Z FS	-	16 23 58.0	1.5	2.08	6			
	E FS	PP	16 25 46.-						
	E Z SL	-	16 34 39.-						
	E Z SL	LR	16 38 00.-	50.0					
	SL	MAXIMUM	16 44 00.-	25.0					

SEP 15

NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	14 25 41.0	1.3	1.78	6			
	-E Z SL	-	14 25 48.0	1.8	1.60	7			

SEP 15 USCGS

H= 14 45 42.0  
 LAT = 51.9 N  
 LONG = 175.5 E  
 DEPTH = 50 KM  
 MAGNITUDE = 5.2  
 RAT ISLANDS, ALUTIAN ISLANDS

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	+I Z FS	P	14 57 31.7	1.5	2.00	5	8570 77.0	7.4 352.5
	E Z FS	-	15 08 14.-					
	E FS	LR	15 16 00.-					
GRF	+E Z BE	P	14 57 36.6	1.1	1.74	2	8660 77.9	9.9 349.7
BUH	+I Z GT	P	14 57 43.8	1.3	2.00		8810 79.2	8.0 351.5
FUR	-E Z SL	P	14 57 44.0	1.3	2.34	9	8830 79.4	9.8 349.4
	-I Z SL	-	14 57 48.0	1.5	1.34	3		
	+I Z SL	AP	14 57 55.0	1.3	2.00	2		
	-E Z SL	XPP	15 01 00.0	1.4	1.36	5		

SEP 15 USCGS

H= 18 47 41.3  
 LAT = 45.5 N  
 LONG= 151.6 E  
 DEPTH= 44 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

BNS	+I Z FS	P	18 59 42.9	2.0	2.46	7	8790 79.1	24.6 338.0
	E Z FS	-	18 59 53.-					
	E FS	LR	19 33 00.-					
GRF	+I Z BE	P	18 59 43.5	1.0	1.61	5	8790 79.1	27.2 335.0
FUR	-I Z SL	P	18 59 50.0	1.2	2.52	9	8940 80.4	27.1 334.3
	+I Z SL	XP	19 00 06.0	1.4	1.66	7		
	-E Z SL	-	19 00 31.0	1.3	1.78	9		
BUH	+I Z GT	P	18 59 52.5	1.3	1.90		8990 80.9	25.1 336.4

SEP 16 USCGS

H= 01 17 14.6  
 LAT = 45.6 N  
 LONG= 151.6 E  
 DEPTH= 60 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.0  
 KURIL ISLANDS

BNS	I Z FS	P	01 29 14.5	1.4	1.78	3	8790 79.0	24.6 338.0
	E Z FS	LR	02 03 00.-					
	FS	MAXIMUM	02 06 00.-					
GRF	E Z BE	P	01 29 13.9				8790 79.0	27.1 335.0
FUR	-E Z SL	P	01 29 21.0	1.2	2.14	5	8940 80.4	27.1 334.3
BUH	+E Z GT	P	01 29 24.2	1.0	1.40		8990 80.8	25.1 336.4

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
SEP 16 USCGS H= 08 00 35.8 LAT = 27.2 N LONG= 127.3 E DEPTH= 94 KM MAGNITUDE= 5.1 RYUKYU ISLANDS								
GRF	-E Z BE	P	08 13 01.5	1.1	2.14	4	9420 84.7	53.5 324.1
FUR	-I Z SL	P	08 13 06.0	1.5	1.52	9	9520 85.6	53.4 322.9

SEP 16 USCGS

H= 14 30 00.0  
 LAT = 37.3 N  
 LONG= 116.5 W  
 DEPTH= 0 KM  
 MAGNITUDE= 6.2  
 SOUTHERN NEVADA

USCGS= 37 DEG 18 MIN 51 SEC N, 116 DEG 27 MIN 38 SEC W  
 NEVADA TEST SITE #JORUM#. (AEC), MAG. 6.3 (PAS), 6.1 (BRK)  
 THERE ARE 5 EVENTS IN SO. NEV. THAT ARE THE LARGEST OF MANY SMALL  
 EVENTS LOCATED IN THIS REGION WITH A C+GS TEMPORARY STATION NET-  
 WORK USING A REGIONAL CRUSTAL MODEL AND AN AVERAGE FOCAL DEPTH  
 OF 4 KM.

HLG	E Z X	P	14 41 54.7	2.0	2.83	3	8570 77.1	317.5 29.9
	E E X	P	14 41 55.3	1.0	2.38	2		
HAM	-E Z SX	P	14 42 04.-			6	8720 78.4	319.1 29.4
BNS	+I Z FS	P	14 42 06.5	1.6	2.88	9	8800 79.1	317.5 32.4
	E Z FS	-	14 42 13.-					
	E FS	-	14 42 26.3					
	E Z SL	LR	15 07 36.-			40.0		
	Z SL	MAXIMUM	15 17 00.-			18.0		
TNS	I	P	14 42 13.0				8920 80.2	318.4 32.3
HEI	+E Z ST	P	14 42 16.7	1.3	2.71	7	9000 81.0	318.7 32.7
KRL	+E Z ST	P	14 42 17.5				9020 81.1	318.5 33.1
BUH	+I Z GT	P	14 42 18.3	1.0	1.60		9040 81.3	318.5 33.5
STU	+E Z BE	P	14 42 20.0	2.0	3.00	6	9080 81.7	319.1 32.9
GRF	+I Z BE	P	14 42 21.3	1.0	1.96	8	9100 81.8	320.4 31.3
	E Z BE	PP	14 45 10.4					
FUR	-I Z SL	P	14 42 27.0	1.2	2.07	9	9230 83.0	320.6 32.2
	+I Z SL	-	14 44 34.0	1.4	1.89	9		
	+I Z SL	PP	14 45 36.0	1.5	1.52	9		
	-E Z SL	PPP	14 47 40.0	1.4	1.61	5		

SEP 1969		4A8			SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
+E Z SL	SP		14 53 33.0	1.4	1.43	6		
-E Z SL	-		14 57 06.0	1.4	1.61	9		
SEP 16 NO DETERMINATION OF EPICENTER								
GRF	E Z BE	P	17 35 38.5					
SEP 16 USCGS H= 21 19 26.5 LAT = 39.8 N LONG= 75.1 E DEPTH= 19 KM MAGNITUDE= 4.9 SOUTHERN SINKIANG PROV., CHINA								
GRF	E Z BE	P	21 27 43.4				5020 45.1	77.2 304.7
SEP 17 USCGS H= 02 15 20.1 LAT = 53.1 N LONG= 160.1 E DEPTH= 22 KM MAGNITUDE= 4.5 NEAR EAST COAST OF KAMCHATKA								
GRF	+E Z BE	P	02 26 57.2				8260 74.3	18.9 339.6
SEP 17 BCIS H= 11 46 26.6 LAT = 47.9 N LONG= 11.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED GERMANY								
FUR = PEISSENBERG AREA, BAVARIA, SLIGHT DAMAGES AT PEISSENBERG.								
FUR	+E Z SL	PG	11 46 32.0	1.5	0.90	5	40 0.3	203.4 23.3
	-I Z SL	PB	11 46 34.0	1.2	2.62	9		
	-I Z SL	-	11 46 46.0	1.5	1.43	3		
	+I Z SL	-	11 46 50.0	1.3	2.40	4		
	Z SL	MAXIMUM	11 47 15.0	1.5	2.34			
RAV	E Z ST	PG	11 46 45.0	0.5	2.09	2	110 1.0	85.0 266.1
	E N ST	SG	11 47 00.5	0.5	2.78	8		
STU	E Z BE	PG	11 46 45.7	0.5	1.74	2	170 1.6	125.2 306.6
	E E BE	SG	11 47 18.2					
GRF	+I Z BE	PN	11 46 57.2	0.4	0.95	5	200 1.8	182.8 2.7

SEP 1969		4A9			SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	I Z BE	PG	11 47 04.1					
	I Z BE	SG	11 47 26.8					
FEL	E N ST	SG	11 47 31.0	0.8	2.11	2	230 2.1	89.3 271.5
BUH	E Z GT	PN	11 47 01.6				230 2.1	112.1 294.2
KRL	E Z ST	P	11 47 07.3				240 2.1	122.0 303.9
HEI	E Z ST	PG	11 47 09.2	0.3	2.06	2	240 2.2	133.7 315.5
SEP 17 NO DETERMINATION OF EPICENTER								
GRF	-I Z BE	P	12 46 16.4	0.4	1.22	5		
SEP 17 BCIS H= 12 59 04.0 LAT = 49.5 N LONG= 7.8 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED GERMANY								
RHEINLAND-PFALZ.								
TNS	E	P	12 58 18.5				90 0.8	210.3 29.9
BUH	-I Z GT	PG	12 59 21.2	0.6	0.60		100 0.9	341.3 161.0
SEP 17 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	13 59 50.0	1.5	0.90	3		
	-E Z SL	-	14 00 19.0	1.2	2.04	8		
SEP 17 USCGS H= 18 40 45.8 LAT = 31.1 N LONG= 131.3 E DEPTH= 8 KM MAGNITUDE= 6.2 KYUSHU, JAPAN								
HAM	+I Z SX	P	18 53 07.3			4	9080 81.7	47.7 328.9
GRF	+E Z BE	P	18 53 16.4	2.0	2.49	5	9290 83.6	18.3 325.6
TNS	I	P	18 53 21.0				9400 84.5	46.4 327.2
FUR	-I Z SL	P	18 53 21.0	1.9	2.68	9	9400 84.6	48.2 324.4
	+I Z SL	-	18 53 37.0	1.5	2.07	3		



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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	Z SL	MAXIMUM	19 35 40.0	16.0	4.40			
BNS	+I Z FS	P	18 53 20.9	2.0	2.72	9	9410 84.6	45.5 328.3
	E Z FS	-	18 53 31.5					
	E FS	PP	18 56 38.-					
	E E SL	S	19 03 58.-					
	E Z SL	SS	19 10 20.-					
	E SL	LR	19 22 20.-	40.0				

STU	+E Z BE	P	18 53 23.0	2.0	3.13	9	9470 85.2	46.8 325.8
KRL	+E Z ST	P	18 53 25.6	2.5	3.04		9500 85.4	46.3 326.3
BUH	+I Z GT	P	18 53 26.2	2.0	1.80		9530 85.7	46.1 326.2

SEP 17 USCGS  
 H= 18 51 07.8  
 LAT = 31.2 N  
 LONG= 131.4 E  
 DEPTH= 23 KM  
 MAGNITUDE= 5.5  
 KYUSHU, JAPAN

GRF	+E Z BE	P	19 03 37.9	1.6	2.33	6	9300 83.6	48.2 325.6
	+E Z BE	AP	19 03 47.5					

FUR	-E Z SL	P	19 03 40.0	2.0	1.99	9	9410 84.6	48.1 324.4
	+E Z SL	APCP	19 03 50.0	1.5	1.23	3		
	+E Z SL	-	19 04 10.0	1.4	1.56	4		

BNS	E Z FS	P	19 03 41.4			3	9410 84.6	45.4 328.3
	E Z FS	-	19 03 56.-					

STU	-E Z BE	P	19 03 45.0	1.0	1.80	3	9470 85.2	46.7 325.8
BUH	E Z GT	P	19 03 46.-	2.5	1.80		9530 85.7	46.0 326.2

SEP 17  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	20 57 26.-			2		
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SEP 18 USCGS  
 H= 03 14 02.5  
 LAT = 39.9 N  
 LONG= 8.5 W  
 DEPTH= 23 KM  
 MAGNITUDE= 4.0  
 PORTUGAL

FUR	+E Z SL	P	14 30 10.0	1.2	2.04	8		
	-E Z SL	-	14 30 29.0	1.4	1.36	2		
	-E Z SL	-	14 30 32.0	1.4	1.36	1		

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 18 BCIS  
 H= 03 14 00.0  
 LAT = 40.0 N  
 LONG= 8.5 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 PORTUGAL

USCGS= FELT AT COIMBRA AND PORTO.

GRF	E Z BE	P	03 18 02.5				1890 17.0	242.4 48.4
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SEP 18 USCGS  
 H= 05 07 36.1  
 LAT = 25.3 S  
 LONG= 179.6 E  
 DEPTH= 525 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.1  
 SOUTH OF FIJI ISLANDS

FUR	+I Z SL	PKP2	05 27 00.0	1.4	1.36	3	17280 155.4	26.1 341.0
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SEP 18  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	11 16 18.3			3		
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SEP 18 USCGS  
 H= 11 52 37.6  
 LAT = 43.3 N  
 LONG= 146.9 E  
 DEPTH= 50 KM  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	+E Z BE	P	12 04 41.9	0.8	1.32	3	8860 79.6	31.3 332.5
	+I Z BE	-	12 04 51.5	0.8	1.68	4		

FUR	+E Z SL	P	12 04 47.0	1.3	1.48	2	9000 80.9	31.2 331.7
	-E Z SL	PCP	12 04 53.0	1.5	0.70	2		
	+E Z SL	AP	12 04 58.0	1.5	1.00	3		
	-E Z SL	XPCP	12 05 11.0	1.4	1.36	3		

BUH	+E Z GT	P	12 04 51.-	1.0	0.90		9060 81.5	29.2 333.7
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SEP 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	14 30 10.0	1.2	2.04	8		
	-E Z SL	-	14 30 29.0	1.4	1.36	2		
	-E Z SL	-	14 30 32.0	1.4	1.36	1		

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 18  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	15 55 14.0	1.5	1.00	3		
	+E Z SL	-	15 55 20.0	1.6	1.15	2		
	+E Z SL	-	15 55 26.0	1.6	1.15	2		
	+E Z SL	-	15 55 33.0	1.5	1.11	2		

 SEP 18  
NO DETERMINATION OF EPICENTER

GRF	-I Z BE	PG	16 14 56.0					
	E N BE	SG	16 15 14.5					

 SEP 18  
NO DETERMINATION OF EPICENTER

BNS	E N X	SG	17 13 15.0			8		
	E Z X	-	17 13 17.5	1.5	2.08			

 SEP 19 USCGS  
H= 00 47 44.7  
LAT = 17.0 S  
LONG= 177.0 W  
DEPTH= 45 KM  
MAGNITUDE= 4.3  
FIJI ISLANDS REGION

GRF	E Z BE	PKP	01 07 33.-				16310 146.7	14.5 350.2
FUR	+E Z SL	PKP	01 07 37.0	2.0	1.81	3	16480 148.2	15.2 349.4

 SEP 19 USCGS  
H= 01 29 37.4  
LAT = 6.1 N  
LONG= 125.4 E  
DEPTH= 95 KM  
MAGNITUDE= 5.7  
MINDANAO, PHILIPPINE ISLANDS

GRF	E Z BE	P	01 43 47.-				11190 100.6	67.4 322.9
FUR	-E Z SL	Xp	01 43 49.0	1.2	1.84	1	11250 101.2	67.7 321.5
	-E Z SL	-	01 44 15.0	1.3	1.48	3		
	+E Z SL	PP	01 47 39.0	1.4	1.51	7		
	+E Z SL	APP	01 48 04.0	1.4	1.51	4		
	+E Z SL	XPP	01 48 16.0	1.6	1.08	2		
	Z SL	MAXIMUM	02 22 35.0	47.5	3.43			

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 19 USCGS  
H= 11 08 18.3  
LAT = 19.5 S  
LONG= 169.6 W  
DEPTH=256 KM  
MAGNITUDE= 4.3  
NEW HEBRIDES ISLANDS

FUR	+E Z SL	PKP	11 27 31.0	1.3	2.00	9	16280 146.4	39.1 333.4
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 SEP 19 USCGS  
H= 12 11 37.9  
LAT = 43.7 N  
LONG= 147.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
KURIL ISLANDS

FUR	-E Z SL	P	12 23 51.0	1.2	1.84	5	9000 80.9	30.3 332.3
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 SEP 19  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	15 43 04.4					
	E N BE	SG	15 43 21.6					

 SEP 19 USCGS  
H= 20 40 34.3  
LAT = 44.2 N  
LONG= 153.4 E  
DEPTH=140 KM (GEOPHYSICIST)  
MAGNITUDE= 5.1  
KURIL ISLANDS

GRF	-E Z BE	P	20 52 14.4	0.7	1.38	5	8580 77.1	24.9 335.9
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 SEP 19 USCGS  
H= 20 54 12.4  
LAT = 58.4 N  
LONG= 32.3 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
NORTH ATLANTIC OCEAN

BNS	E Z FS	P	20 59 22.7	2.3	1.90	2	2630 23.7	303.7 91.1
	Z FS	MAXIMUM	21 08 00.-	16.0				
GRF	E Z BE	P	20 59 47.2				2950 26.5	305.9 90.1

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 19  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	21 29 01.3	2.3	1.90	2		
	Z FS	MAXIMUM	21 38 00.-	16.0				

SEP 19 USCGS  
H= 23 21 59.1  
LAT = 58.4 N  
LONG = 32.3 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 4.6  
NORTH ATLANTIC OCEAN

BNS	E Z FS	P	23 27 07.-	2.0	1.85	2	2640 23.7	303.6 90.9
FUR	-E Z SL	P	23 27 41.0	1.5	0.85	2	3060 27.5	308.1 92.5

 SEP 20  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	00 03 15.8			2		
	E Z FS	-	00 03 25.7	1.8	1.78			

 SEP 20  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	00 48 17.-	2.5	1.85	2		
	E Z FS	-	00 48 40.5					
	FS	MAXIMUM	00 57 00.-	16.0				

SEP 20 USCGS  
H= 00 56 51.3  
LAT = 58.1 N  
LONG = 32.2 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.0  
NORTH ATLANTIC OCEAN

SEP 20 BCIS  
H= 00 56 48.0  
LAT = 58.3 N  
LONG = 32.6 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTH ATLANTIC OCEAN

BNS	E Z FS	P	01 01 59.5	2.0	1.95	3	2630 23.7	303.0 90.5
	E Z FS	LR	01 07 50.-	36.0				
	FS	MAXIMUM	01 11 00.-	16.0				

BUH	E Z GT	P	01 02 19.-	1.4	1.20		2840 25.5	307.1 94.1
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z HE	P	01 02 28.0				2950 26.5	305.3 89.6
FUR	+E Z SL	P	01 02 37.0	1.2	1.84	3	3050 27.5	307.7 92.2
	+E Z SL	Ap	01 02 42.0	1.4	1.43	3		
	+I Z SL	-	01 02 53.0	1.4	1.15	3		
	+E Z SL	Pp	01 03 21.0	1.4	1.15	2		
	+E Z SL	PPP	01 03 35.0	1.5	1.00	2		
	+E Z SL	-	01 03 45.0	1.4	1.15	3		
	+E Z SL	-	01 03 59.0	1.4	1.15	3		

SEP 20 USCGS  
H= 01 07 38.4  
LAT = 58.2 N  
LONG = 32.1 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.0  
NORTH ATLANTIC OCEAN

SEP 20 BCIS  
H= 01 07 36.0  
LAT = 58.3 N  
LONG = 32.6 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTH ATLANTIC OCEAN

BNS	+I Z FS	P	01 12 47.9	2.4	2.60	7	2620 23.6	303.2 90.8
	E Z FS	LR	01 18 30.-	38.0				
	FS	MAXIMUM	01 21 50.-	16.0				
HAM	E Z SX	P	01 12 49.-			5	2640 23.8	298.5 83.3
BUH	+E Z GT	P	01 13 05.-	2.0	1.50		2830 25.5	307.2 94.3
GRF	+E Z HE	P	01 13 14.5	1.6	1.86	2	2940 26.4	305.4 89.8
FUR	-E Z SL	P	01 13 23.0	1.2	2.09	9	3050 27.4	307.8 92.5
	-E Z SL	-	01 13 44.0	1.5	0.90	5		
	-E Z SL	Pp	01 14 08.0	1.4	1.43	3		
	+E Z SL	PPP	01 14 21.0	1.3	2.00	2		
	+E Z SL	-	01 14 31.0	1.4	1.26	2		
	-E Z SL	-	01 14 56.0	1.3	1.70	3		

SEP 20 USCGS  
H= 01 13 04.6  
LAT = 58.1 N  
LONG = 32.1 W  
DEPTH = 33 KM (NORMAL)  
MAGNITUDE = 5.2  
NORTH ATLANTIC OCEAN

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SFP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
SEP 20 BCIS H= 01 13 00.0 LAT = 58.3 N LONG= 32.6 W NO DEPTH COMPUTED NO MAGNITUDE COMPUTED NORTH ATLANTIC OCEAN								
BNS	E Z FS	P	01 18 17.5	2.8	2.68	5	2620 23.6	303.0 90.6
	E Z FS	-	01 18 24.-					
	E FS	-	01 19 03.-					
HAM	E Z SX	P	01 18 15.-			3	2640 23.8	298.2 83.1
GRF	+I Z HE	P	01 18 40.3	1.0	1.65	6	2940 26.4	305.2 89.6
FUR	-I Z SL	P	01 18 48.0	1.2	2.14	9	3040 27.4	307.6 92.3
	-I Z SL	AP	01 18 54.0	1.4	1.51	4		
	+E Z SL	-	01 19 08.0	1.3	1.78	6		

SEP 20 USCGS  
 H= 05 08 57.6  
 LAT = 58.3 N  
 LONG= 32.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.6  
 NORTH ATLANTIC OCEAN

SEP 20 BCIS  
 H= 05 08 54.0  
 LAT = 58.3 N  
 LONG= 32.6 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

HLG	N X	P	05 13 55.7	2.0	2.69	1	2490 22.4	296.9 83.2
	+I Z X	P	05 13 58.5	2.0	3.13	4		
	E X	P	05 13 59.9	2.0	3.25	4		
BNS	+I Z FS	P	05 14 06.1	2.5	3.64	9	2630 23.6	303.4 90.9
	E Z FS	S	05 18 28.-					
	I FS	LR	05 20 00.-	36.0				
	E X	MAXIMUM	05 23 10.-	16.0	4.68			
	N X	MAXIMUM	05 23 10.-	15.0	4.60			
HAM	+E Z SX	P	05 14 08.-			9	2650 23.8	298.7 83.4
TNS	I	P	05 14 16.0				2750 24.7	304.7 91.3
	I	PP	05 15 23.0					
	I	PCP	05 17 43.0					
KRL	+E Z ST	P	05 14 25.-	2.0	2.83		2830 25.4	306.8 93.6
BUH	+E Z GT	P	05 14 23.5	1.5	1.30		2840 25.5	307.4 94.4

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SFP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
STU	+E Z HE	P	05 14 27.8	1.0	2.37	4	2890 26.0	307.2 93.3
GHF	+I Z HE	P	05 14 33.2	0.8	1.47	4	2950 26.5	305.6 89.9
	E Z HE	-	05 17 25.2					
FUR	+I Z SL	P	05 14 42.0	2.2	2.69	9	3050 27.5	308.0 92.5
	-I Z SL	PP	05 15 27.0	2.2	2.64	7		
	-I Z SL	-	05 16 00.0	2.0	2.21	4		
	+I Z SL	SS	05 20 49.0	6.5	3.18	5		
	Z SL	MAXIMUM	05 26 00.0	15.0	4.27			

SEP 20  
 NO DETERMINATION OF EPICENTER

GHF	-E Z HE	PN	14 06 43.1					
	-I Z HE	PG	14 06 43.9	0.3	1.25	9		
	E N HE	SG	14 06 58.3					

SEP 20 USCGS  
 H= 14 07 57.8  
 LAT = 38.4 N  
 LONG= 69.8 E  
 DEPTH= 52 KM  
 MAGNITUDE= 5.1  
 TADZHIK SSP

GRF	-E Z HE	P	14 15 50.8	0.8	1.38	4	4730 42.5	82.3 305.0
FUR	+E Z SL	P	14 15 51.0	1.5	0.90	5	4750 42.7	80.7 302.7
	-E Z SL	PP	14 17 34.0	1.4	1.36	5		
BUH	I Z GT	P	14 16 06.8	1.0	1.10		4960 44.6	79.3 304.0

SEP 20 USCGS  
 H= 15 26 41.5  
 LAT = 1.8 N  
 LONG= 101.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 EAST CENTRAL PACIFIC OCEAN

BNS	+I Z FS	PKP	15 44 37.7	1.8	1.85	3	11120 100.0	285.4 37.6
	E Z FS	LR	16 18 00.-					
	FS	MAXIMUM	16 26 00.-	20.0				
BUH	E Z GT	PKP	15 44 28.-	4.0	2.00		11260 101.3	285.8 39.6
FUR	+E Z SL	PKP	15 44 55.0	1.5	1.00	6	11490 103.4	288.1 39.5
	+E Z SL	XPKP	15 45 12.0	1.4	1.61	5		

SEP 20  
 NO DETERMINATION OF EPICENTER

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-E Z SL	P	21 01 46.0	1.2	1.84	5		
	-E Z SL	-	21 02 10.0	1.4	1.43	3		
	+E Z SL	-	21 02 24.0	1.6	1.00	5		

GRF	E Z BE	PG	21 01 46.3					
	E N BE	SG	21 02 26.5					

SEP 21  
NO DETERMINATION OF EPICENTER

GRF	+I Z BE	PG	00 03 43.1	0.5	1.17	4		
	E N BE	SG	00 04 00.8					

SEP 21 USCGS  
H= 07 11 53.6  
LAT = 17.5 S  
LONG= 174.7 W  
DEPTH=235 KM (GEOPHYSICIST)  
MAGNITUDE= 5.5  
TONGA ISLANDS

BNS	+I Z FS	PKP	07 31 08.8	1.2	2.49	9	16300 146.6	3.3 357.8
	I Z FS	-	07 31 31.4					
	E FS	-	07 32 06.-					

GRF	E Z BE	PKP	07 31 08.8				16400 147.5	10.6 352.8
	I Z BE	-	07 31 12.0	1.0	1.78	7		
	E Z BE	APKP	07 32 13.-					

FUR	+E Z SL	PKP	07 31 11.0	1.5	0.90	5	16570 149.0	11.2 352.2
	-I Z SL	PKP	07 31 16.0	1.4	2.23	9		
	-E Z SL	-	07 31 36.0	1.3	1.90	4		
	-E Z SL	-	07 31 46.0	1.3	1.85	4		
	+E Z SL	APKP	07 32 15.0	1.5	1.34	3		

SEP 22 USCGS  
H= 01 40 20.8  
LAT = 5.6 S  
LONG= 68.1 E  
DEPTH= 14 KM  
MAGNITUDE= 5.1  
CHAGOS ARCHIPELAGO REGION

FUR	-E Z SL	P	01 51 51.0	1.3	1.85	4	8120 73.0	119.4 324.1
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GRF	-I Z BE	P	01 51 56.2	1.0	1.61	6	8210 73.8	119.7 325.5
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499

SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 22 USCGS  
H= 01 46 13.5  
LAT = 2.9 N  
LONG= 95.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
OFF W. COAST OF NORTHERN SUMATRA

FUR	+E Z SL	P	01 58 44.0	1.8	1.53	3	9370 84.2	92.0 317.9
	+E Z SL	PCP	01 58 50.0	1.4	1.56	8		
	+I Z SL	XPCP	01 59 06.0	1.5	1.36	3		
	-E Z SL	-	01 59 28.0	1.6	1.26	5		

GRF	E Z BE	P	01 58 44.3				9380 84.3	92.1 319.5
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BUH	+E Z GT	P	01 58 53.0	2.0	1.50		9590 86.3	89.8 318.4
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BNS	E Z SL	P	01 59 00.-				9670 86.9	89.1 320.7
	E Z SL	-	01 59 46.-					
	E SL	LR	02 30 00.-					

SEP 22 USCGS  
H= 02 35 44.4  
LAT = 43.6 N  
LONG= 147.5 E  
DEPTH= 42 KM  
MAGNITUDE= 5.0  
KURIL ISLANDS

GRF	-I Z BE	P	02 47 50.2	1.0	1.56	4	8850 79.6	30.7 332.9
	-I Z BE	AP	02 48 01.7					

FUR	+E Z SL	P	02 47 56.0	1.5	1.23	9	8990 80.9	30.6 332.0
	-E Z SL	XP	02 48 11.0	1.4	1.61	2		

BUH	E Z GT	P	02 47 59.-	1.4	1.10		9060 81.4	28.7 334.1
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SEP 22 USCGS  
H= 03 52 37.4  
LAT = 2.9 N  
LONG= 95.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
OFF W. COAST OF NORTHERN SUMATRA

FUR	-E Z SL	P	04 05 11.0	1.5	1.00	3	9370 84.2	92.1 317.9
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GRF	-E Z BE	P	04 05 08.4				9380 84.3	92.2 319.5
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BUH	E Z GT	P	04 05 17.-				9590 86.3	89.9 318.4
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500

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
SEP 22 USCGS								
H= 08 17 43.6								
LAT = 36.6 N								
LONG= 28.1 E								
DEPTH= 92 KM								
MAGNITUDE= 4.6								
DODECANESE ISLANDS								
SEP 22 BCIS								
H= 08 17 44.0								
LAT = 36.6 N								
LONG= 28.0 E								
DEPTH= 95 KM								
NO MAGNITUDE COMPUTED								
DODECANESE ISLANDS								
FUR	+E Z SL	P	08 21 36.0	1.3	1.95	5	1880 16.9	127.0 318.3
	-E Z SL	-	08 22 11.0	1.4	1.36	5		
GRF	E Z BE	P	08 21 47.6				1990 17.9	130.6 322.2
BUH	-I Z GT	P	08 21 59.8				2100 18.9	122.4 315.9
	I Z GT	-	08 22 01.5	0.8	1.00			
SEP 22								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	11 44 49.0	1.4	1.15	2		
	-E Z SL	-	11 45 06.0	1.5	1.23	3		
SEP 22 USCGS								
H= 13 47 52.2								
LAT = 5.0 N								
LONG= 32.6 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.7								
CENTRAL MID-ATLANTIC RIDGE								
BUH	-E Z GT	P	13 57 28.5	2.6	2.00		6190 55.7	232.1 31.7
KRL	-E Z ST	P	13 57 32.-	3.5	3.40		6220 56.0	232.1 31.4
BNS	-I Z FS	P	13 57 35.8	2.4	2.43	4	6290 56.6	229.8 29.0
	E Z FS	PP	13 59 41.-					
	E FS	S	14 05 25.-					
FUR	+I Z SL	P	13 57 39.0	1.5	1.52	9	6340 57.0	235.5 33.6
GRF	+E Z BE	P	13 57 44.2	2.4	2.76	3	6430 57.8	234.6 32.1

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
SEP 22 USCGS								
H= 16 14 58.8								
LAT = 41.4 N								
LONG= 88.3 E								
DEPTH= 0 KM								
MAGNITUDE= 5.1								
SOUTHERN SINKIANG PROV., CHINA								
GRF	-E Z BE	P	16 24 16.3				5830 52.4	67.8 307.0
FUR	-E Z SL	P	16 24 20.0	1.4	1.43	6	5890 53.0	66.7 305.2
SEP 22								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	17 13 16.0	1.4	1.61	9		
	-E Z SL	-	17 13 23.0	1.6	1.15	2		
SEP 22 USCGS								
H= 22 02 08.3								
LAT = 0.5 N								
LONG= 26.2 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.8								
CENTRAL MID-ATLANTIC RIDGE								
FUR	-E Z SL	AP	22 12 04.0	1.6	0.78	3	6390 57.5	226.2 28.9
	E SL	MAXIMUM	22 31 00.0	31.5	4.00			
SEP 22 BCIS								
H= 23 22 17.0								
LAT = 48.2 N								
LONG= 9.1 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
GERMANY								
STU = WESTERN SWABIAN JURA.								
H= 23 22 18.0; 48 DEG 15.0 MIN N, 9 DEG 5.0 MIN E								
DEPTH=5-6 KM, ML= 2.7								
FUR	-E Z SL	PG	23 22 48.0	1.5	0.90	3	160 1.5	272.2 90.6
	+E Z SL	SN	23 23 06.0	1.4	1.36	5		
GRF	E Z BE	PN	23 22 52.9				230 2.0	223.8 42.2
	-I Z BE	PG	23 22 55.9	0.3	1.17	6		
	E N BE	SG	23 23 21.-					

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 22 BCIS  
H= 23 45 18.7  
LAT = 48.2 N  
LONG= 9.1 E  
DEPTH= 6 KM  
NO MAGNITUDE COMPUTED  
GERMANY

STU WESTERN SWABIAN JURA.  
H= 23 45 19.0, 48 DEG 15.0 MIN N, 9 DEG 4.0 MIN E  
DEPTH=5 KM, ML= 2.9, I= IV\*

BUH	-I Z GT	PG	23 45 32.2	0.1	1.10		80 0.7	127.0 307.6
KRL	-I Z ST	PG	23 45 36.7				100 0.9	150.1 330.5
FUR	+E Z SL	PN	23 45 46.0	1.5	0.90	5	160 1.5	274.1 92.5
	-E Z SL	PG	23 45 47.0	1.2	1.83	5		
	-E Z SL	-	23 45 50.0	1.4	1.66	2		
	+E Z SL	SN	23 46 06.0	1.4	1.43	3		
	+E Z SL	-	23 46 10.0	1.4	1.51	7		
GRF	I Z BE	PN	23 45 51.0				220 2.0	225.2 43.6
	-I Z BE	-	23 45 54.5	0.5	1.21	4		
	-I Z BE	PG	23 45 56.6	0.4	1.66	9		
	E N GT	SG	23 46 21.5					
BNS	E FS	SG	23 46 55.-			2	330 3.0	154.9 336.3
	E Z FS	-	23 46 58.-					

SEP 23 USCGS  
H= 01 22 03.3  
LAT = 27.3 S  
LONG= 113.4 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.3  
EASTER ISLAND REGION

GKF	E Z BE	PKP	01 41 17.6				14730 132.5	276.8 46.4
FUR	+E Z SL	PKP	01 41 23.0	1.5	0.90	3	14750 132.7	275.5 48.5

SEP 23  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	19 05 26.3					
	E Z BE	PG	19 05 33.0					
	E N BE	SG	19 06 09.-					

SEP 23  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	20 02 29.0	1.6	1.00	5		
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	+E Z SL	-	20 02 33.0	1.4	1.26	4		
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SEP 23 USCGS  
H= 22 37 22.6  
LAT = 18.7 N  
LONG= 107.1 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
OFF COAST OF JALISCO, MEXICO

BNS	E Z SL	-	22 45 16.-				10010 90.0	300.2 35.2
	E Z SL	-	23 07 23.-					
	E SL	LR	23 16 40.-					
FUR	-E Z SL	P	22 50 39.0	1.3	1.48	3	10420 93.7	303.3 36.2
	-E Z SL	APCP	22 50 45.0	1.3	1.30	2		
	-E Z SL	XPCP	22 50 55.0	1.3	1.30	2		
	+E Z SL	-	22 51 02.0	1.6	1.00	3		
	+E Z SL	-	22 51 16.0	1.6	1.00	5		
	E SL	MAXIMUM	23 25 40.0	31.0	3.46			

SEP 24 USCGS  
H= 03 58 56.5  
LAT = 52.5 N  
LONG= 31.8 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
NORTH ATLANTIC RIDGE

SEP 24 BCIS  
H= 03 58 55.0  
LAT = 52.8 N  
LONG= 32.0 W  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NORTH ATLANTIC RIDGE

HLG	N X	P	04 04 07.9	1.4	2.75	2	2620 23.6	282.2 70.0
	E Z X	P	04 04 08.9	2.0	2.93	2		
	E X	P	04 04 09.0	1.6	2.83	2		
BNS	+I Z FS	P	04 04 13.4	2.4	3.10	9	2670 24.0	289.0 78.0
	I Z FS	S	04 08 34.-					
	E FS	LR	04 10 06.-	40.0				
HAM	+I Z SX	P	04 04 19.3			2	2770 24.9	284.8 71.0
	+I Z SX	-	04 04 21.8			3		
	+I Z SX	AP	04 04 24.5			9		
	E Z SX	PP	04 04 54.4			9		
TNS	I	P	04 04 20.0				2780 25.0	290.9 79.0
	E	PP	04 05 04.0					
	E	S	04 08 55.0					

SEP 1969				504		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
KRL	+E Z ST	P	04 04 23.-	1.0	1.90		2830 25.5	293.3	81.6
	+E Z ST	-	04 04 29.2						
BUH	-E Z GT	P	04 04 22.7	1.0	1.80		2840 25.5	293.9	82.5
STU	-E Z BE	P	04 04 27.2	1.0	2.44	3	2900 26.0	293.9	81.7
GRF	E Z BE	P	04 04 36.2				2990 26.9	292.7	78.6
FUR	+E Z SL	P	04 04 42.0	1.2	1.98	7	3060 27.6	295.4	81.6
	-I Z SL	-	04 04 46.0	1.5	1.86	9			
	+E Z SL	XP	04 04 55.0	1.5	1.57	7			
	-I Z SL	-	04 05 22.0	1.5	1.57	7			
	+E Z SL	PP	04 05 29.0	1.5	1.36	5			
	-I Z SL	PPP	04 05 38.0	1.4	1.89	1			
	+I Z SL	-	04 06 04.0	1.4	1.83	2			
	N SL	MAXIMUM	04 13 30.0	17.0	3.81				
	N SL	MAXIMUM	04 16 40.0	9.0	3.95				
SEP 24 USCGS									
H= 04 20 52.9									
LAT = 52.6 N									
LONG= 31.8 W									
DEPTH= 33 KM (NORMAL)									
MAGNITUDE= 5.2									
NORTH ATLANTIC RIDGE									
SEP 24 BCIS									
H= 04 20 48.0									
LAT = 52.8 N									
LONG= 32.0 W									
NO DEPTH COMPUTED									
NO MAGNITUDE COMPUTED									
NORTH ATLANTIC RIDGE									
BNS	-E Z FS	P	04 26 05.0	2.0	2.63	9	2670 24.0	289.1	78.1
	E Z FS	-	04 27 27.-						
	E FS	LR	04 31 50.-						
HAM	E Z SX	P	04 26 14.4			1	2770 24.9	284.9	71.1
	E Z SX	XP	04 26 29.9			6			
KRL	+E Z ST	P	04 26 20.-	1.0	2.30		2830 25.5	293.4	81.8
BUH	+I Z GT	P	04 26 21.5	1.0	1.50		2830 25.5	294.0	82.6
STU	+I Z BE	P	04 26 24.3	0.9	2.38	9	2890 26.0	294.0	81.8
GRF	+E Z BE	-	04 26 32.4				2990 26.9	292.8	78.7
FUR	-I Z SL	P	04 26 39.0	1.3	2.40	9	3060 27.5	295.5	81.7
	-E Z SL	AP	04 26 44.0	1.4	1.93	2			
	-E Z SL	XP	04 26 47.0	1.5	1.48	1			
	+I Z SL	-	04 27 14.0	1.6	1.43	4			
	+I Z SL	PP	04 27 19.0	1.4	1.89	6			
	-I Z SL	-	04 27 46.0	1.4	1.74	6			

SEP 1969				505		SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
	-E Z SL	-	04 28 00.0	1.4	1.61	5			
SEP 24									
NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	09 17 14.0	1.3	1.78	3			
	+E Z SL	-	09 17 25.0	1.6	1.08	3			
	+E Z SL	-	09 17 34.0	1.5	1.08	4			
SEP 24									
NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	P	16 18 06.0	1.5	1.18	9			
	+E Z SL	-	16 18 22.0	1.5	1.00	2			
	+E Z SL	-	16 18 25.0	1.5	1.23	3			
SEP 24 USCGS									
H= 18 03 19.0									
LAT = 15.2 N									
LONG= 45.8 W									
DEPTH= 33 KM (NORMAL)									
MAGNITUDE= 5.8									
NORTH ATLANTIC RIDGE									
BUH	+I Z GT	P	18 12 50.5	1.5	1.70		6130 55.1	252.1	40.8
	E Z GT	S	18 20 32.-						
BNS	+I Z FS	P	18 12 51.5	2.3	3.18	9	6140 55.2	249.7	37.9
	E Z FS	S	18 19 52.-						
	E FS	LR	18 28 14.-	42.0					
KRL	+I Z ST	P	18 12 52.5				6160 55.4	252.1	40.5
TNS	I	P	18 12 55.0				6200 55.8	251.3	39.1
	I	S	18 20 46.0						
STU	E Z BE	P	18 12 53.2	1.8	2.89	9	6200 55.8	252.9	40.9
	+E Z BE	S	18 20 37.2	16.0	4.23	9			
HLG	N X	P	18 13 00.-	3.0	3.13	2	6320 56.8	248.3	34.5
	Z X	P	18 13 00.-	3.9	3.38	3			
FUR	-I Z SL	P	18 13 03.0	1.3	2.60	9	6330 56.9	255.1	42.1
	+E Z SL	S	18 21 01.0	9.0	3.64	3			
	-E Z SL	SS	18 24 48.0	8.0	3.32	7			
	Z SL	MAXIMUM	18 37 00.0	18.0	3.93				
GRF	+E Z BE	P	18 13 06.0	1.6	2.16	4	6370 57.3	254.1	40.3
HAM	E Z SX	P	18 13 09.-			3	6410 57.7	250.7	35.8
	E Z SX	PP	18 14 34.-			3			



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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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SEP 24 USCGS  
H= 19 00 57.1  
LAT = 15.3 N  
LONG= 45.7 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
NORTH ATLANTIC RIDGE

FUR	-E Z SL	AP	19 10 54.0	1.5	1.00	6	6320 56.9	255.1 42.1
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SEP 24 USCGS  
H= 20 21 14.6  
LAT = 18.2 S  
LONG= 178.0 W  
DEPTH=475 KM (GEOPHYSICIST)  
MAGNITUDE= 4.7  
FIJI ISLANDS REGION

FUR	+E Z SL	PKP	20 40 11.0	1.6	1.00	5	16580 149.1	17.4 347.9
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SEP 25 USCGS  
H= 11 45 34.3  
LAT = 37.2 N  
LONG= 20.1 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.2  
IONIAN SEA

SEP 25 BCIS  
H= 11 45 39.0  
LAT = 37.2 N  
LONG= 20.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
IONIAN SEA

FUR	Z SL	MAXIMUM	11 56 55.0	1.4	1.36		1410 12.7	146.1 332.1
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SEP 25  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 16 42.0	1.5	0.90	5		
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SEP 25  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 28 43.0	1.4	1.51	3		
FUR	-E Z SL	-	16 29 06.0	1.4	1.61	2		

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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SEP 25 USCGS  
H= 21 33 16.9  
LAT = 52.2 N  
LONG= 169.4 W  
DEPTH= 5 KM  
MAGNITUDE= 4.5  
FOX ISLANDS, ALEUTIAN ISLANDS

BUH	+E Z GT	P	21 45 26.2	1.2	0.90		8830 79.4	358.5 1.6
FUR	-E Z SL	P	21 45 31.0	1.3	1.70	3	8890 80.0	0.4 359.6
FUR	-E Z SL	XPCP	21 45 42.0	1.4	1.43	6		

SEP 26 USCGS  
H= 04 54 35.7  
LAT = 16.4 N  
LONG= 41.0 E  
DEPTH= 25 KM  
MAGNITUDE= 5.1  
RED SEA

SEP 26 BCIS  
H= 04 54 37.0  
LAT = 16.4 N  
LONG= 41.0 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
RED SEA

FUR	-E Z SL	P	05 02 09.0	1.5	1.18	9	4440 39.9	132.2 328.9
FUR	+I Z SL	AP	05 02 19.0	1.5	1.18	2		
FUR	+E Z SL	-	05 02 40.0	1.4	1.36	5		
FUR	+E Z SL	Xpp	05 04 01.0	1.4	1.43	2		
FUR	+E Z SL	-	05 04 41.0	1.6	1.08	3		

GRF	+E Z BE	P	05 02 18.2	0.8	1.34	2	4560 41.0	133.4 330.6
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BUH	E Z GT	P	05 02 23.7				4650 41.8	128.8 327.5
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BNS	E Z FS	P	05 02 42.-				4870 43.8	129.5 329.4
BNS	E Z FS	-	05 04 33.-					
BNS	E FS	LR	05 15 00.-	50.0				

SEP 26 USCGS  
H= 06 53 45.5  
LAT = 11.0 N  
LONG= 62.4 W  
DEPTH= 87 KM  
MAGNITUDE= 4.3  
WINDWARD ISLANDS

BUH	+E Z GT	P	07 05 06.-				7680 69.1	262.7 42.0
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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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KRL	E Z ST	P	07 05 08.-				7700 69.2	262.7 41.7
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SEP 26 USCGS  
H= 06 59 55.8  
LAT = 45.9 N  
LONG= 42.5 E  
DEPTH= 0 KM  
MAGNITUDE= 5.6  
SOUTHWESTERN RUSSIA

SEP 26 BCIS  
H= 07 00 00.0  
LAT = 46.0 N  
LONG= 42.4 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
SOUTHWESTERN RUSSIA

BCIS = PROBABLY ARTIFICIAL.

GRF	-E Z BE	P	07 04 46.9	0.6	1.54	5	2360 21.3	88.3 291.7
FUR	+I Z SL	PPP	07 04 47.0	1.2	2.84	9	2370 21.3	84.4 287.5
	+I Z SL	-	07 05 24.0	1.5	1.40	9		
	+I Z SL	-	07 05 34.0	1.2	2.31	4		
	-I Z SL	-	07 05 45.0	1.5	1.52	7		
	+I Z SL	PCP	07 08 50.0	1.4	1.66	5		
	Z SL	MAXIMUM	07 13 20.0	1.5	1.52			
HAM	-I Z SX	P	07 04 56.7			3	2470 22.2	96.7 301.8
TNS	I	P	07 05 05.5				2560 23.0	87.7 293.2
BUH	-I Z GT	P	07 05 08.5	1.5	1.00		2590 23.3	83.9 289.3
BNS	E Z FS	P	07 05 13.3	1.4	2.79	9	2650 23.8	88.4 295.2
	E Z FS	-	07 12 11.-					
	E FS	-	07 12 53.-					

SEP 26  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	12 59 53.0	1.2	2.13	5		
	+E Z SL	-	13 00 14.0	1.4	1.74	2		

SEP 26  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	15 48 08.0	1.2	1.84	5		
	Z SL	MAXIMUM	15 48 35.0	1.5	1.30			

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 26 USCGS  
H= 20 27 44.7  
LAT = 22.3 S  
LONG= 171.1 E  
DEPTH=120 KM  
MAGNITUDE= 4.7  
LOYALTY ISLANDS REGION

GRF	+E Z BE	PKP	20 47 17.4	1.0	1.48	2	16500 148.4	37.4 334.8
BNS	E Z FS	PKP	20 47 18.3	1.2	1.90	5	16540 148.8	29.6 340.3
FUR	+I Z SL	PKP	20 47 21.0	1.3	2.18	9	16630 149.6	39.0 332.9
	+I Z SL	PKP	20 47 26.0	1.4	1.77	4		
BUH	+I Z GT	PKP	20 47 22.0	1.0	0.90		16720 150.4	33.4 336.8

SEP 26  
NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	20 51 21.5					
	I N X	SG	20 51 29.3					
	E X	-	20 51 38.7	1.3	2.32			

SEP 26  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	23 42 21.0	1.2	1.74	2		
	+I Z SL	-	23 42 44.0	1.5	1.40	6		
	-I Z SL	-	23 43 00.0	1.3	2.04	4		
GRF	E Z BE	P	23 42 32.5					
	-I Z BE	-	23 42 59.2					
	E N BE	S	23 43 57.5					

SEP 27 USCGS  
H= 04 02 16.3  
LAT = 43.9 N  
LONG= 147.0 E  
DEPTH= 47 KM  
MAGNITUDE= 5.4  
KURIL ISLANDS

GRF	+E Z BE	P	04 14 17.9	0.9	2.08	9	8800 79.1	30.9 332.5
BNS	+I Z FS	P	04 14 18.2	1.2	2.00	5	8820 79.3	28.4 335.4
	E Z FS	-	04 14 37.5					
FUR	+I Z SL	P	04 14 25.0	1.3	2.11	9	8940 80.4	30.8 331.7
STU	+E Z BE	P	04 14 25.6	1.0	2.03	7	8960 80.6	29.5 333.2

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 27  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	09 02 26.0					
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 SEP 27 USCGS  
H= 09 04 02.8  
LAT = 60.9 S  
LONG= 56.0 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.8  
SOUTH SHETLAND ISLANDS

BUH	E Z GT	PKP	09 22 53.-				13430 120.8	210.8 44.0
FUR	-E Z SL	PKP	09 22 57.0	1.8	1.65	3	13500 121.4	211.9 46.3
	-I Z SL	APKP	09 23 07.0	1.5	1.62	6		
	-I Z SL	-	09 24 10.0	1.3	1.95	5		
	+E Z SL	PP	09 24 35.0	1.4	1.66	5		
	+E Z SL	APP	09 24 46.0	1.4	1.61	3		
	N SL	MAXIMUM	10 11 20.0	20.0	3.16			
BNS	E Z X	PKP	09 23 09.-			2	13610 122.4	211.1 41.9
	E Z X	-	09 34 00.-					
	E	LR	10 01 20.-	40.0				
GRF	E Z BE	PKP	09 22 59.7				13640 122.7	212.4 45.3
	E Z BE	PP	09 24 33.6					

 SEP 27  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	17 01 59.0	1.2	1.84	3		
	-I Z SL	-	17 02 52.0	1.5	1.11	4		
GRF	E Z BE	P	17 02 00.6	1.2	1.64	3		
	+E Z BE	-	17 02 54.8	1.0	1.38	2		

 SEP 27 USCGS  
H= 20 31 49.3  
LAT = 20.3 S  
LONG= 178.0 W  
DEPTH= 525 KM (GEOPHYSICIST)  
MAGNITUDE= 4.3  
FIJI ISLANDS REGION

BNS	E Z FS	PKP	20 50 39.-	1.4	1.70	3	16580 149.1	9.5 353.6
FUR	-I Z SL	PKP	20 50 45.0	1.4	1.34	3	16810 151.2	18.3 347.1
	+E Z SL	APKP	20 52 57.0	1.5	0.90	5		

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 SEP 28 USCGS  
H= 10 17 08.3  
LAT = 23.8 S  
LONG= 176.7 W  
DEPTH= 78 KM  
MAGNITUDE= 5.0  
SOUTH OF FIJI ISLANDS

BNS	E Z FS	PKP	10 36 56.-	2.5	2.18	3	16980 152.7	7.7 354.7
GRF	E Z BE	PKP	10 36 59.7				17060 153.4	16.3 348.5
	E Z BE	-	10 37 11.2					
FUR	-E Z SL	PKP	10 37 01.0	1.6	1.00	5	17220 154.9	17.3 347.4
	+I Z SL	-	10 37 18.0	1.4	1.66	3		
	+I Z SL	APKP	10 37 40.0	1.5	1.18	9		
	+E Z SL	APKP	10 37 57.0	1.4	1.43	3		

 SEP 28 USCGS  
H= 18 53 28.6  
LAT = 39.3 N  
LONG= 73.6 E  
DEPTH= 62 KM  
MAGNITUDE= 5.0  
TADZHIK-SINKIANG BORDER REGION

GRF	+E Z BE	P	19 01 36.0	1.6	1.93	2	4950 44.5	78.9 304.8
FUR	-E Z SL	P	19 01 38.0	1.3	1.70	5	4980 44.8	77.4 302.7
BUH	+E Z GT	P	19 01 54.-	1.0	0.70		5180 46.6	76.1 304.0

 SEP 28 USCGS  
H= 22 54 06.6  
LAT = 34.3 N  
LONG= 25.1 E  
DEPTH= 19 KM  
MAGNITUDE= 5.4  
CRETE

 SEP 28 BCIS  
H= 22 54 09.0  
LAT = 34.3 N  
LONG= 25.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
CRETE

FUR	+I Z SL	P	22 58 10.0	1.5	1.72	8	1920 17.3	138.2 327.4
	-I Z SL	AP	22 58 14.0	1.8	2.20	9		
	+I Z SL	XP	22 58 16.0	1.8	2.71	9		
	-I Z SL	-	22 58 46.0	1.6	2.01	3		
	-I Z SL	-	22 58 57.0	1.5	2.00	9		

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	-I Z SL	S	23 01 10.0	1.2	2.44	7		
	+I Z SL	SS	23 01 33.0	1.4	2.00	9		
	-I Z SL	SSS	23 01 45.0	1.5	1.26	9		
	Z SL	MAXIMUM	23 06 00.0	14.0	4.14			
GRF	+I Z BE	P	22 58 22.6				2050 18.4	141.1 330.5
	E Z BE	S	23 02 00.5					
STU	+E Z BE	P	22 58 25.0	1.0	2.46	3	2070 18.7	134.8 325.4
BUH	-I Z GT	P	22 58 30.0	0.4	0.80		2120 19.0	132.6 323.9
KRL	+E Z ST	P	22 58 30.6	4.0	3.57		2130 19.2	133.7 324.9
TNS	I	P	22 58 41.2				2230 20.0	136.2 327.5
	I	S	23 01 48.0					
BNS	E Z FS	P	22 58 52.5	1.7	2.85	9	2350 21.1	135.0 327.3
	E E FS	S	23 02 46.5					
	FS	MAXIMUM	23 08 30.-	14.0				

 SEP 29  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	10 08 26.0	1.2	1.91	3		
	+E Z SL	-	10 08 35.0	1.5	1.23	9		

 SEP 29 USCGS  
 H= 10 27 49.1  
 LAT = 65.1 N  
 LONG = 6.6 E  
 DEPTH = 6 KM  
 MAGNITUDE = 4.8  
 NORWEGIAN SEA

 SEP 29 BCIS  
 H= 10 27 35.0  
 LAT = 66.3 N  
 LONG = 6.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORWEGIAN SEA

BNS	E Z X	PN	10 31 12.-			2	1570 14.1	358.9 178.4
	E N X	SN	10 33 38.5					
	E X	-	10 34 46.-					
GRF	E Z BE	P	10 31 33.4				1730 15.6	352.6 168.7
	E Z BE	S	10 34 32.-					
BUH	-I Z GT	P	10 31 28.0				1830 16.4	357.5 176.1
FUR	+E Z SL	P	10 31 54.0	1.5	1.00	6	1900 17.1	353.2 169.2
	-I Z SL	PP	10 32 06.0	1.3	1.90	3		
	+I Z SL	PPP	10 32 13.0	1.4	1.51	4		

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SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	-E Z SL	S	10 34 10.0	1.5	0.90	3		
	+E Z SL	PCP	10 36 50.0	1.5	1.11	8		

 SEP 29 USCGS  
 H= 12 12 33.4  
 LAT = 34.3 N  
 LONG = 25.0 E  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.5  
 CRETE

FUR	+E Z SL	P	12 16 35.0	1.5	0.90	5	1910 17.2	138.5 327.6
	+E Z SL	AP	12 16 42.0	1.4	1.36	5		
GRF	E Z BE	P	12 16 47.-				2040 18.4	141.4 330.7

 SEP 29 USCGS  
 H= 16 20 00.4  
 LAT = 7.2 S  
 LONG = 128.8 E  
 DEPTH = 145 KM (GEOPHYSICIST)  
 MAGNITUDE = 5.7  
 BANDA SEA

GRF	E Z BE	PKP	16 38 23.4				12580 113.1	73.1 321.2
	E Z BE	APKP	16 39 04.-					
FUR	-E Z SL	PKP	16 38 22.0	1.8	1.71	9	12620 113.5	73.7 319.6
	-I Z SL	XPKP	16 39 16.0	1.6	1.30	5		
	+I Z SL	PP	16 39 21.0	1.6	1.79	6		
BUH	+E Z GT	PKP	16 38 26.-	1.0	0.80		12820 115.3	71.0 320.8

 SEP 29 USCGS  
 H= 17 58 38.8  
 LAT = 43.4 N  
 LONG = 147.7 E  
 DEPTH = 32 KM  
 MAGNITUDE = 5.4  
 KURIL ISLANDS

GRF	+E Z HE	P	18 10 45.8	1.2	2.20	5	8870 79.8	30.7 333.0
	I Z BE	-	18 10 59.0					
	E Z BE	PCP	18 11 06.6					
	E Z BE	-	18 12 04.7	1.1	1.65	2		
BNS	+I Z FS	P	18 10 46.0	1.2	1.95	5	8890 79.9	28.1 335.9
	I Z FS	-	18 10 58.5					
FUR	-E Z SL	P	18 10 52.0	1.5	1.52	9	9010 81.1	30.6 332.1
	-I Z SL	APCP	18 11 03.0	1.4	1.81	3		
	+E Z SL	XPCP	18 11 12.0	1.5	1.36	9		

SEP 1969		514			SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
STU	E Z BE	P	18 10 52.5	1.2	1.98	4	9030 81.2	29.2 333.7
BUH	+E Z GT	P	18 10 55.-	1.2	1.30		9080 81.6	28.6 334.2
SEP 29 USCGS H= 18 03 39.6 LAT = 43.5 N LONG= 147.3 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 KURIL ISLANDS								
GRF	-E Z BE	P	18 15 46.6				8850 79.6	30.9 332.8
SEP 29 USCGS H= 20 03 32.8 LAT = 32.9 S LONG= 19.7 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.9 REPUBLIC OF SOUTH AFRICA								
USCGS= 12 DEAD, DOZENS INJURED, HUNDREDS HOMELESS AT TALBAGH AND WOLSELEY, FELT WIDELY THROUGHOUT CAPE PROVINCE, FORESHOCK PRECEDED COMPUTED ORIGIN TIME BY APPROXIMATELY 5 SECONDS. MAG. 6.1 (BRK).								
FUR	-I Z SL	P	20 15 46.0	1.5	1.77	9	9010 81.1	172.9 354.3
	-I Z SL	XP	20 15 59.0	1.7	1.97	9		
	-I Z SL	XPCP	20 16 07.0	1.6	1.61	4		
	+I Z SL	-	20 16 15.0	1.4	2.13	9		
	+I Z SL	PP	20 18 49.0	1.6	1.49	2		
	+E Z SL	PPP	20 20 50.0	1.4	1.83	8		
	N SL	MAXIMUM	20 51 00.0	23.0	4.45			
	Z SL	MAXIMUM	20 57 20.0	12.0	3.80			
STU	E Z BE	P	20 15 49.4	1.7	2.60	2	9100 81.8	171.1 353.0
	E N BE	S	20 26 02.0	16.0	3.43	3		
BUH	E Z GT	P	20 15 49.-	1.0	1.00		9100 81.9	170.3 352.4
KRL	+E Z ST	P	20 15 52.7	1.6	2.45	3	9140 82.2	170.5 352.6
GRF	+E Z BE	P	20 15 53.6	1.2	1.91	2	9180 82.6	172.8 354.5
	E Z BE	S	20 26 44.3					
BNS	+E Z X	P	20 16 02.-	16.0		5	9370 84.2	169.5 352.1
	-E Z X	-	20 16 02.8	2.0	2.04			
	E X	PP	20 19 16.-					
	E Z SL	S	20 26 35.5					
	E Z SL	SS	20 32 05.-					
	E SL	SSS	20 35 52.-					
	E Z SL	LR	20 44 12.-	58.0				
	Z SL	MAXIMUM	20 50 00.-	26.0				

SEP 1969		515			SEP 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
HAM	E Z SX	P	20 16 12.1			1	9610 86.4	171.8 354.2
SEP 29 BCIS H= 21 59 30.0 LAT = 48.3 N LONG= 9.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED GERMANY								
STU = WESTERN SWABIAN JURA. H= 21 59 30.0, 48 DEG 18.0 MIN N, 9 DEG 4.0 MIN E DEPTH=2-3 KM, ML= 2.8, I=IV+								
BUH	-I Z GT	PG	21 59 43.0	0.1	0.80		80 0.7	122.6 303.3
KRL	+E Z ST	PG	21 59 46.4	0.6	2.25	4	90 0.8	147.1 327.6
FUR	+E Z SL	PN	22 00 00.0	1.5	1.08	7	160 1.5	276.1 94.5
	+E Z SL	SN	22 00 20.0	1.4	1.36	5		
	Z SL	MAXIMUM	22 01 13.0	1.5	1.23			
GRF	+I Z BE	PN	22 00 02.7				220 2.0	225.8 44.2
	+I Z BE	PG	22 00 07.6					
	I N BE	SN	22 00 27.8					
	E N BE	SG	22 00 32.5					
SEP 29 BCIS H= 23 49 13.0 LAT = 34.1 N LONG= 25.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED CRETE								
FUR	+E Z SL	P	23 53 20.0	1.5	1.08	4	1940 17.4	138.6 327.8
	+E Z SL	AP	23 53 26.0	1.4	1.66	3		
	+E Z SL	-	23 54 00.0	1.4	1.43	3		
GRF	E Z BE	P	23 53 32.3				2070 18.6	141.5 330.8
BUH	E Z GT	P	23 53 41.-				2140 19.2	133.0 324.3
SEP 30 USCGS H= 02 39 45.2 LAT = 34.2 N LONG= 25.2 E DEPTH= 14 KM MAGNITUDE= 4.5 CRETE								

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SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 30 BCIS  
 H= 02 39 44.0  
 LAT = 34.2 N  
 LONG= 25.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

FUR	+E Z SL	P	02 43 50.0	1.2	1.84	2	1940 17.4	138.1 327.3
	+E Z SL	AP	02 43 57.0	1.4	1.36	2		
	+E Z SL	-	02 44 19.0	1.2	1.74	4		
GRF	+I Z BE	P	02 44 02.7	1.0	1.38	3	2070 18.6	141.0 330.5
BUH	E Z GT	P	02 44 09.-				2140 19.2	132.5 323.9

SEP 30 USCGS  
 H= 04 11 16.1  
 LAT = 31.9 S  
 LONG= 177.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 KERMADEC ISLANDS REGION

GRF	+I Z BE	PKP	04 31 58.0	1.4	2.18	6	17900 161.0	24.4 341.6
FUR	+E Z SL	PKP2	04 32 02.0	1.3	2.18	8	18060 162.4	26.5 339.4
	-I Z SL	APKP	04 32 15.0	1.4	1.81	5		
	+E Z SL	XPKP	04 32 20.0	1.4	1.66	9		

SEP 30  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	-	11 24 53.5			2		
	E Z FS	-	11 25 02.-					
	E FS	-	11 25 20.5					

SEP 30  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	PG	14 26 09.0	1.0	2.23	9		
	Z SL	MAXIMUM	14 26 49.0	1.5	1.92			

SEP 30  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 37 45.0	1.2	2.04	8		
	-E Z SL	-	14 37 56.0	1.5	1.00	3		

517

SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 30 USCGS  
 H= 17 51 41.8  
 LAT = 31.9 S  
 LONG= 178.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 KERMADEC ISLANDS REGION

BNS	E Z SL	PKP	18 11 40.-				17860 160.6	13.4 350.1
	E Z SL	-	18 12 21.-	2.2	2.23			
	E SL	-	18 16 01.-					
GRF	E Z HE	PKP	18 11 40.5				17900 161.0	24.7 341.4
	E Z HE	-	18 12 21.6					
	E Z HE	PP	18 16 06.0					
TNS	I	PKP	18 12 22.0				17910 161.1	17.2 347.1
FUR	-E Z SL	PKP	18 11 40.0	1.2	1.84	5	18050 162.3	26.9 339.2
	-E Z SL	APKP	18 11 44.0	1.4	1.36	5		
	-I Z SL	PKP2	18 12 28.0	1.8	2.05	4		
	+I Z SL	APKP	18 12 33.0	1.5	1.70	9		
	+I Z SL	XPKP	18 12 38.0	1.5	1.72	2		
	-I Z SL	-	18 12 57.0	1.5	1.43	4		
	+E Z SL	PP	18 16 12.0	1.5	1.18	5		
	+E Z SL	APP	18 16 20.0	1.4	1.66	5		
BUH	E Z GT	PKP	18 11 40.-	2.0	1.20		18080 162.6	18.0 346.0

SEP 30 USCGS  
 H= 18 52 52.4  
 LAT = 16.1 S  
 LONG= 172.6 W  
 DEPTH= 75 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.1  
 SAMOA ISLANDS REGION

BNS	I Z FS	PKP	19 12 23.0	1.6	1.90	4	16150 145.3	359.6 0.3
	E Z FS	-	19 12 32.5					
GRF	+E Z BE	PKP	19 12 27.1	1.7	2.26	2	16280 146.4	6.6 355.6
FUR	+I Z SL	PKP	19 12 31.0	1.5	1.23	5	16450 147.9	7.0 355.1

SEP 30  
 NO DETERMINATION OF EPICENTER

GRF	I Z BE	PN	19 04 19.3					
	E Z BE	PG	19 04 27.3					
	E N BE	SG	19 04 59.5					

518

SEP 1969

SEP 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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SEP 30 USCGS  
H= 23 13 25.8  
LAT = 25.6 N  
LONG = 94.7 E  
DEPTH = 20 KM  
MAGNITUDE = 5.4  
BURMA-INDIA BORDER REGION

FUR	-E Z SL	P	23 24 11.0	1.4	1.25	4	7460 67.1	76.7 313.8
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SEP 30 USCGS  
H= 23 57 36.4  
LAT = 32.2 S  
LONG = 177.6 W  
DEPTH = 37 KM  
MAGNITUDE = 5.3  
SOUTH OF KERMAJEC ISLANDS

GRF	E Z BE	PKP2	00 18 18.1				17940 161.3	24.1 341.8
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FUR	-E Z SL	PKP	00 18 24.0	1.3	1.85	7	18090 162.7	26.2 339.6
	+I Z SL	-	00 18 36.0	1.5	1.23	9		

OCT 01 USCGS  
H= 04 02 57.6  
LAT = 49.8 N  
LONG = 78.2 E  
DEPTH = 0 KM (GEOPHYSICIST)  
MAGNITUDE = 5.3  
EASTERN KAZAKH SSR

OCT 01 BCIS  
H= 04 03 00.0  
LAT = 50.0 N  
LONG = 78.0 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

GRF	+E Z BE	P	04 10 52.6	1.0	1.75	3	4670 42.0	63.1 296.6
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FUR	+I Z SL	P	04 10 58.0	1.3	2.00	9	4740 42.6	61.7 294.6
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BUH	+E Z GT	P	04 11 09.4	0.5	0.70		4910 44.2	60.9 296.6
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519

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 01 USCGS  
H= 05 05 43.2  
LAT = 11.9 S  
LONG = 75.1 W  
DEPTH = 4 KM  
MAGNITUDE = 5.9  
PERU

USCGS = 136 KILLED, 216 INJURED. VILLAGES OF LAMPA AND CHILIFRUTA DESTROYED. COMAS 60 PER CENT DESTROYED. REVERSE FAULTING PRODUCED VERTICAL AND HORIZONTAL COMPONENTS OF DISPLACEMENT OF 1.6 M AND 0.7 M RESPECTIVELY IN ADDITION TO THE 0.4 M VERTICAL DISPLACEMENT OF THE JULY 24, 1969 SHOCK.  
MAG. 6.4 (PAS), 6.1 (BRK).

BNS	E Z FS	P	05 19 09.-	2.5	2.35	4	10490 94.3	256.6 38.9
	E Z FS	PP	05 22 54.-					
		FS	05 29 44.-					

BUH	E Z GT	P	05 19 06.-	1.8	1.40		10510 94.5	257.2 41.3
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KRL	+E Z ST	P	05 19 10.5	3.0	3.10	3	10530 94.7	257.4 41.0
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TNS	E	P	05 19 12.0				10560 95.0	257.5 39.8
	E	SKS	05 29 52.0					
	E	SKKS	05 30 22.0					

FUR	+E Z SL	P	05 19 16.0	1.5	1.08	7	10720 96.4	259.4 42.2
	+E Z SL	PP	05 23 10.0	2.8	2.56	4		

GRF	E Z BE	P	05 19 10.-				10740 96.6	259.5 40.7
	E Z BE	-	05 22 28.5					
	E Z BE	PP	05 23 02.5					

OCT 01 USCGS  
H= 05 58 12.7  
LAT = 11.7 S  
LONG = 75.1 W  
DEPTH = 5 KM (GEOPHYSICIST)  
MAGNITUDE = 5.7  
PERU

FUR	-E Z SL	P	06 11 44.0	1.2	2.14	9	10700 96.2	259.5 42.2
	+E Z SL	PP	06 15 34.0	2.3	1.93	4		

GRF	E Z BE	PP	06 15 35.-				10730 96.5	259.6 40.7
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OCT 01  
NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	16 56 03.0	1.5	1.26	2		
	-E Z SL	-	16 56 13.0	1.5	1.26	2		
	+I Z SL	-	16 56 23.0	1.5	1.40	2		

520

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 01 USCGS  
 H= 17 10 56.5  
 LAT = 0.8 N  
 LONG= 85.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 OFF COAST OF ECUADOR

BNS	+E Z FS	P	17 24 00.0	5.0	3.05	2	10090 90.7	272.2 39.2
	E Z FS	SS	17 34 41.-					
		FS	17 40 02.-					
BUH	E Z GT	P	17 24 02.-	2.0	1.40		10180 91.5	273.0 41.5
TNS	I	P	17 24 04.0				10180 91.6	273.2 39.9
	E	PP	17 27 42.0					
	E	SS	17 41 40.0					
KRL	+E Z ST	P	17 24 04.3	1.3	2.50	3	10190 91.6	273.1 41.1
STU	+E Z BE	P	17 24 05.9	3.0	3.00	2	10250 92.1	273.7 41.3
FUR	+E Z SL	P	17 24 11.0	1.5	1.08	4	10410 93.6	275.2 41.8
	-I Z SL	-	17 24 13.0	1.5	1.54	3		
	+I Z SL	APCP	17 24 16.0	1.5	1.58	5		
	+E Z SL	PP	17 27 59.0	3.0	2.50	3		
	Z SL	MAXIMUM	17 55 30.0	36.0	3.99			
	Z SL	MAXIMUM	18 05 00.0	16.0	3.55			

OCT 01  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	P	17 55 52.0	1.3	2.30	2		
	-E Z SL	AP	17 55 59.0	2.0	1.99	4		

OCT 01 USCGS  
 H= 20 30 22.5  
 LAT = 27.3 S  
 LONG= 176.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 KERMADEC ISLANDS REGION

GRF	E Z BE	PKP	20 50 40.-				17440 156.9	17.6 347.2
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OCT 01 BCIS  
 H= 20 33 39.0  
 LAT = 39.4 N  
 LONG= 40.5 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 TURKEY

521

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 01 USCGS  
 H= 20 33 39.3  
 LAT = 39.2 N  
 LONG= 40.5 E  
 DEPTH= 39 KM  
 MAGNITUDE= 4.8  
 TURKEY

FUR	+E Z SL	P	20 38 41.0	1.3	1.78	1	2530 22.7	101.8 302.2
	+I Z SL	AP	20 38 49.0	1.2	1.98	4		
	-I Z SL	PP	20 39 11.0	1.5	1.23	2		
	-I Z SL	PPP	20 39 19.0	1.5	1.23	2		
	-I Z SL	-	20 39 28.0	1.0	1.11	2		
	-I Z SL	-	20 39 37.0	1.2	2.10	2		
	Z SL	MAXIMUM	20 47 00.0	40.0	3.70			
	Z SL	MAXIMUM	20 55 00.0	20.0	3.77			

GRF	E Z BE	P	20 38 44.2				2570 23.1	105.3 306.0
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OCT 01 USCGS  
 H= 22 37 03.7  
 LAT = 21.1 S  
 LONG= 174.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.0  
 TONGA ISLANDS

GRF	-E Z BE	PKP2	22 57 51.4				16810 151.2	10.3 352.9
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OCT 01 USCGS  
 H= 22 48 12.8  
 LAT = 36.5 N  
 LONG= 70.9 E  
 DEPTH= 230 KM  
 MAGNITUDE= 4.9  
 HINDU KUSH REGION

GRF	E Z BE	P	22 56 03.3				4940 44.4	83.9 306.8
FUR	-E Z SL	AP	22 56 43.0	2.0	1.70	3	4950 44.5	82.4 304.6
	-I Z SL	XP	22 57 16.0	1.6	1.30	2		
	+E Z SL	PP	22 57 46.0	2.0	1.70	2		
	-E Z SL	-	22 57 54.0	1.8	1.76	3		

OCT 02 USCGS  
 H= 04 00 17.7  
 LAT = 21.8 S  
 LONG= 179.4 W  
 DEPTH= 599 KM  
 MAGNITUDE= 4.9  
 FIJI ISLANDS REGION



522

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	-I Z FS	PKP	04 19 03.2	1.0	1.78	4	16730 150.4	12.5 351.5
	E Z FS	-	04 19 13.5					
GRF	-E Z BE	PKP	04 19 04.9				16780 150.9	20.7 345.7
	I Z BE	PKP2	04 19 15.3					
FUR	+E Z SL	PKP	04 19 00.0	1.5	0.90	3	16940 152.3	21.8 344.5
	+E Z SL	-	04 19 09.0	1.5	1.00	3		
	-I Z SL	PKP2	04 19 21.0	1.0	2.40	9		

OCT 02 USCGS  
 H= 04 56 45.5  
 LAT = 38.5 N  
 LONG = 122.7 W  
 DEPTH = 2 KM  
 MAGNITUDE = 5.2  
 NORTHERN CALIFORNIA

USCGS = 38 DEG 29.5 MIN N, 122 DEG 42.1 MIN W  
 HYPOCENTER BY BERKELEY, MAG. 5.6 (BRK), 5.2 (PAS).  
 SEVERAL SLIGHT INJURED, EXTENSIVE PROPERTY DAMAGE IN SANTA ROSA  
 AREA.

FUR	+E Z SL	P	05 09 21.0	1.5	0.48	2	9400 84.5	325.4 28.9
	+E Z SL	PCP	05 09 25.0	1.0	0.98	3		
	-I Z SL	-	05 09 41.0	1.5	1.11	4		

OCT 02 USCGS  
 H= 06 19 56.0  
 LAT = 38.5 N  
 LONG = 122.7 W  
 DEPTH = 2 KM  
 MAGNITUDE = 5.1  
 NORTHERN CALIFORNIA

FUR	+E Z SL	P	06 32 32.0	1.3	1.70	5	9400 84.5	325.4 29.0
	+E Z SL	PCP	06 32 36.0	1.7	1.60	2		

OCT 02  
 NO DETERMINATION OF EPICENTER

GRF	+E Z BE	Pg	14 01 24.6					
	E N BE	SG	14 01 55.0					

OCT 02  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	15 32 09.0	1.5	1.26	6		
	+I Z SL	-	15 32 22.0	1.5	1.18	2		

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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 02	USCGS							
	H= 22 06 00.0							
	LAT = 51.4 N							
	LONG = 179.2 E							
	DEPTH = 1 KM							
	MAGNITUDE = 6.5							
	RAT ISLANDS, ALEUTIAN ISLANDS							

USCGS = 51 DEG 25 MIN 01.6 SEC N, 179 DEG 10 MIN 56.3 SEC E  
 AMCHITKA ISLAND, #MILROW# ELEVATION -1177.1 M (AEC), FELT ON ADAK.

HLG	+I Z X	P	22 17 37.5	1.4	2.88	3	8290 74.5	5.6 354.7
	E N X	P	22 17 37.8	1.2	2.85	4		
HAM	+E Z SX	P	22 17 41.-			9	8350 75.1	6.9 353.4
	E Z SX	PCP	22 17 53.-			9		
BNS	+I Z FS	P	22 17 55.8	1.5	2.85	9	8650 77.8	5.1 354.8
	I Z FS	-	22 18 08.0					
	E FS	-	22 20 30.-					
TNS	I	P	22 18 00.0				8720 78.4	5.9 353.9
GRF	+I Z BE	P	22 18 01.7	0.7	1.98	9	8760 78.7	7.6 352.1
HEI	+E Z ST	P	22 18 03.7	0.9	2.37	9	8810 79.2	6.1 353.7
KRL	+I Z ST	P	22 18 06.8	1.3	2.70	8	8860 79.6	5.9 353.8
STU	+I Z BE	P	22 18 07.2	1.1	2.59	9	8880 79.8	6.4 353.3
BUH	+I Z GT	P	22 18 08.2	0.6	1.80		8890 80.0	5.7 353.9
FUR	-I Z SL	P	22 18 09.0	1.5	1.57	7	8920 80.3	7.7 351.8
	+I Z SL	PCP	22 18 18.0	1.5	1.62	1		
	+I Z SL	PP	22 21 10.0	1.5	1.40	3		
RAV	+I Z ST	P	22 18 11.4	1.3	2.81	4	8980 80.8	6.6 352.9

OCT 02  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	22 36 52.0	1.0	2.45	3		
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OCT 02  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	22 44 43.0	1.5	1.11	8		
	+I Z SL	-	22 44 57.0	1.5	1.26	2		

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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OCT 02 BCIS  
 H= 23 13 41.0  
 LAT = 38.6 N  
 LONG= 22.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE

OCT 02 USCGS  
 H= 23 13 41.1  
 LAT = 38.5 N  
 LONG= 22.5 E  
 DEPTH= 59 KM  
 MAGNITUDE= 4.5  
 GREECE

FUR	+E Z SL	P	23 16 47.0	1.6	1.15	7	1400	12.6	135.2 323.0
	-I Z SL	XS	23 19 25.0	1.2	1.91	2			
	+I Z SL	-	23 19 52.0	1.5	1.18	9			
GRF	E Z BE	P	23 17 00.0				1530	13.8	139.4 327.4
BUH	+E Z GT	P	23 17 09.-				1610	14.5	128.8 318.8
BNS	E Z FS	P	23 17 32.-			2	1830	16.5	132.7 323.6

OCT 03 USCGS  
 H= 01 33 19.8  
 LAT = 32.9 S  
 LONG= 178.0 W  
 DEPTH= 26 KM  
 MAGNITUDE= 5.7  
 SOUTH OF KERMADEC ISLANDS

GRF	E Z BE	PKP	01 53 27.0				17990	161.8	25.7 340.5
	E Z BE	PKP2	01 54 06.3						
FUR	+I Z SL	PKP2	01 54 13.0	1.5	1.92	9	18140	163.2	28.0 338.0
	-I Z SL	APKP	01 54 23.0	1.5	1.48	4			
	+I Z SL	-	01 54 32.0	1.5	1.48	4			

OCT 03 USCGS  
 H= 01 51 55.4  
 LAT = 51.9 N  
 LONG= 157.8 E  
 DEPTH= 91 KM  
 MAGNITUDE= 5.3  
 NEAR EAST COAST OF KAMCHATKA

BNS	+I Z FS	P	02 03 26.3	1.8	2.04	4	8280	74.5	18.4 341.2
	E Z FS	-	02 03 49.-						
GRF	-E Z BE	P	02 03 28.4	1.0	2.08	9	8320	74.8	20.7 338.2

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	AZIMUTH DEG.	STAT. EPIC.
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STU	-E Z BE	P	02 03 35.3	1.0	2.07	4	8470	76.2	19.4 339.2
FUR	+I Z SL	P	02 03 35.0	1.3	2.38	8	8480	76.3	20.6 337.6
	-E Z SL	APCP	02 04 11.0	1.3	1.85	1			
	-E Z SL	XPCP	02 04 24.0	1.5	1.08	2			
BUH	-I Z GT	P	02 03 36.9	1.0	1.30		8500	76.5	18.8 339.8

OCT 03  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	13 55 49.5						
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OCT 03  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	14 21 48.2						
	E Z BE	PG	14 21 53.2						
	E N BE	SG	14 22 17.7						

OCT 03 USCGS  
 H= 15 19 43.9  
 LAT = 19.2 S  
 LONG= 168.8 E  
 DEPTH= 43 KM  
 MAGNITUDE= 4.8  
 NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP	15 39 16.3				16080	144.6	38.6 334.6
BNS	I Z FS	PKP	15 39 17.5	1.4	1.78	4	16130	145.1	31.4 339.6
	E Z FS	-	15 39 28.-						
BUH	E Z GT	PKP	15 39 22.-	1.0	1.00		16200	146.6	34.9 336.3

OCT 03 USCGS  
 H= 15 39 43.5  
 LAT = 3.7 S  
 LONG= 101.9 E  
 DEPTH= 95 KM  
 MAGNITUDE= 5.6  
 SOUTHERN SUMATRA

GRF	-E Z BE	P	15 52 50.2				10360	93.2	91.9 319.4
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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 05 USCGS  
 H= 13 10 42.6  
 LAT = 20.9 S  
 LONG= 178.7 W  
 DEPTH=550 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

BNS	E Z FS	PKP	13 29 31.5	1.6	1.60	2	16640 149.7	11.0 352.6
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OCT 05  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	16 48 03.5					
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OCT 05 USCGS  
 H= 17 50 28.7  
 LAT = 43.5 N  
 LONG= 145.7 E  
 DEPTH=141 KM  
 MAGNITUDE= 4.8  
 HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	18 02 19.2	0.8	1.32	3	8790 79.0	31.9 331.8
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OCT 05 USCGS  
 H= 20 46 32.5  
 LAT = 21.8 S  
 LONG= 170.7 E  
 DEPTH=107 KM  
 MAGNITUDE= 5.3  
 LOYALTY ISLANDS REGION

HAM	-I Z SX	PKP	21 05 58.8			5	16140 145.1	32.4 339.8
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GRF	-I Z BE	PKP	21 06 06.3	0.8	1.65	5	16430 147.8	37.7 334.7
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BNS	-I Z FS	PKP	21 06 06.8	1.2	2.17	9	16470 148.1	30.0 340.1
	E Z FS	-	21 06 41.-					

FUR	-E N SL	PKP	21 06 10.0	1.5	1.70	1	16560 148.9	39.3 332.8
	-E N SL	XPKP	21 06 48.0	2.0	2.20	4		

KRL	-E Z ST	PKP	21 06 10.7				16610 149.4	33.8 336.8
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BUH	-E Z GT	PKP	21 06 11.-	1.0	1.30		16650 149.7	33.8 336.6
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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 06 USCGS  
 H= 00 47 25.5  
 LAT = 7.4 N  
 LONG= 35.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 CENTRAL MID-ATLANTIC RIDGE

GRF	+E Z BE	P	00 57 15.2				6390 57.5	239.1 34.2
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OCT 06 USCGS  
 H= 03 46 39.0  
 LAT = 15.4 S  
 LONG= 172.9 W  
 DEPTH= 43 KM  
 MAGNITUDE= 4.5  
 SAMOA ISLANDS REGION

GRF	E Z BE	PKP	04 06 14.3				16190 145.6	7.1 355.2
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OCT 06 USCGS  
 H= 12 48 05.0  
 LAT = 15.0 N  
 LONG= 120.1 E  
 DEPTH= 59 KM  
 MAGNITUDE= 5.6  
 LUZON, PHILIPPINE ISLANDS

GRF	+E Z BE	P	13 01 02.2	1.2	1.80	3	10060 90.4	66.2 322.1
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FUR	-E E SL	AP	13 01 15.0	1.5	1.52	4	10120 91.0	66.2 320.7
	-I E SL	-	13 02 08.0	1.5	1.88	2		

STU	+E Z BE	P	13 01 09.2	1.0	1.97	3	10230 92.0	64.6 321.8
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BNS	I Z FS	P	13 01 10.0	2.5	2.11	3	10260 92.2	63.0 324.3
	E Z FS	-	13 01 23.-					
	FS	MAXIMUM	13 45 00.0	16.0				

KRL	+E Z WH	P	13 01 10.-				10270 92.4	64.0 322.2
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BUH	+E Z GT	P	13 01 12.-	1.0	1.30		10300 92.6	63.9 322.0
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OCT 06  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	17 26 02.8					
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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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OCT 06 USCGS  
H= 20 20 42.9  
LAT = 43.8 N  
LONG= 148.2 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
KURIL ISLANDS REGION

GRF E Z BE P 20 32 48.4 8850 79.5 30.2 333.2

OCT 07 USCGS  
H= 05 09 11.3  
LAT = 39.2 N  
LONG= 28.4 E  
DEPTH= 14 KM  
MAGNITUDE= 5.0  
TURKEY

OCT 07 BCIS  
H= 05 09 13.0  
LAT = 39.2 N  
LONG= 28.4 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
TURKEY

USCGS= FELT STRONGLY IN NORTHWESTERN ANATOLIA.

FUR	+E E SL	XP	05 12 56.0	1.2	1.72	4	1700	15.3	119.7	311.6
	+I E SL	XPP	05 13 16.0	1.5	1.89	3				
	+I E SL	S	05 15 50.0	1.5	1.89	2				
	E SL	MAXIMUM	05 19 15.0	10.0	3.81					
GRF	E Z BE	P	05 12 58.4				1790	16.1	124.2	316.3
STU	E Z BE	P	05 13 07.0	1.5	2.40	2	1860	16.8	117.7	311.1
BUH	E Z GT	P	05 13 14.-	1.2	1.00		1920	17.3	115.8	309.8
KRL	+E Z WH	P	05 13 18.-				1930	17.3	117.1	311.0
BNS	E Z FS	P	05 13 34.3	2.8	2.30	3	2110	19.0	120.2	315.3
	E Z FS	S	05 17 13.-							
	FS	MAXIMUM	05 22 00.0	13.0						
HLG	E Z X	P	05 13 48.3	1.0	2.29	2	2270	20.4	128.9	323.9
	E X	P	05 13 50.3	1.0	2.34	2				

OCT 07  
NO DETERMINATION OF EPICENTER

FUR	+E E SL	-	16 48 25.0	1.0	2.18	5				
	-E E SL	-	16 48 28.0	1.5	1.95	2				

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT.	EPIC.
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OCT 07  
NO DETERMINATION OF EPICENTER

FUR	+E E SL	-	21 15 32.0	1.5	1.60	5				
	-E E SL	-	21 16 33.0	2.0	2.42	2				

OCT 07 USCGS  
H= 22 12 39.1  
LAT = 51.2 N  
LONG= 179.6 W  
DEPTH= 45 KM  
MAGNITUDE= 4.8  
ANDREANOF ISLANDS, ALEUTIAN IS.

GRF +E Z BE P 22 24 40.3 8790 79.0 6.9 352.8

OCT 08  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	13 26 56.0	1.8	1.45	1				
	+E Z SL	-	13 27 10.0	1.5	0.90	1				
	+E Z SL	-	13 27 24.0	1.5	1.00	1				

OCT 08 USCGS  
H= 14 30 00.0  
LAT = 37.3 N  
LONG= 116.5 W  
DEPTH= 0 KM  
MAGNITUDE= 5.5  
SOUTHERN NEVADA

USCGS= 37 DEG 15 MIN 24 SEC N, 116 DEG 26 MIN 27 SEC W  
NEVADA TEST SITE #PIPKIN#. (AEC).  
MAG. 5.5 (RRK).

BNS	-I Z FS	P	14 42 07.6	1.2	1.78	5	8810	79.2	317.4	32.4
	E Z FS	-	14 42 48.5							
	E Z FS	-	14 43 25.-							
BUH	+I Z GT	P	14 42 18.7	1.0	1.00		9050	81.3	318.4	33.5
GRF	+E Z BE	P	14 42 21.7	1.3	2.05	5	9100	81.9	320.4	31.3
FUR	-I Z SL	P	14 42 28.0	1.5	1.43	9	9240	83.1	320.5	32.2
	+E Z SL	PCP	14 42 40.0	2.0	1.61	1				
	+I Z SL	-	14 43 12.0	2.0	1.99	2				

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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OCT 08 NFB  
 H= 14 45 01.1  
 LAT = 49.5 N  
 LONG= 6.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

NFB = QUARRYBLAST AT TABEN-RODT/SAAR, SHOTPOINT NO.16  
 H=14 45 01.13, 49 DEG 32 MIN 57 SEC N, 6 DEG 36 MIN 43 SEC E  
 HEIGHT= 230 METERS, CHARGE= 7.7 TONS.

TNS	I	P	14 45 28.0				150 1.4	241.1 59.7
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OCT 08  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	15 34 01.0	1.5	1.08	7		
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OCT 08 USCGS  
 H= 15 41 33.4  
 LAT = 21.3 S  
 LONG= 179.5 W  
 DEPTH=639 KM  
 MAGNITUDE= 4.7  
 FIJI ISLANDS REGION

FUR	+E Z SL	PKP2	16 00 33.0	1.5	1.08	2	16880 151.8	21.7 344.6
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OCT 08 USCGS  
 H= 21 57 51.9  
 LAT = 55.8 S  
 LONG= 147.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 WEST OF MACQUARIE ISLAND

FUR	+I Z SL	PKP	22 17 46.0	1.3	1.85	2	16940 152.3	122.6 272.6
	+I Z SL	APKP	22 17 50.0	1.8	1.76	5		
	-I Z SL	PKP2	22 17 53.0	1.1	2.20	9		
	-I Z SL	APKP	22 18 06.0	1.8	1.71	2		

GHF	E Z HE	PKP	22 17 47.8				17030 153.2	120.0 275.4
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OCT 08  
 NO DETERMINATION OF EPICENTER

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPTC.
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OCT 09 BCIS  
 H= 03 31 35.0  
 LAT = 45.1 N  
 LONG= 7.4 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTHERN ITALY

OCT 09 USCGS  
 H= 03 31 35.5  
 LAT = 45.0 N  
 LONG= 7.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 NORTHERN ITALY

USCGS= FELT AT TURIN.

FEL	E N ST	PN	03 32 20.7				320 2.8	189.6 9.1
	E N ST	PG	03 32 26.8	0.5	2.34	6		
	E E ST	SG	03 33 03.3	0.7	2.27	7		

BUH	+I Z GT	P	03 32 31.6	0.2	0.30		410 3.7	189.8 9.2
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STU	-E Z BE	PN	03 32 33.7	0.4	1.37	1	440 3.9	199.5 18.2
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FUR	+I Z SL	PG	03 33 04.0	1.5	1.23	9	460 4.1	222.6 39.7
	-I Z SL	SN	03 33 30.0	1.0	2.28	2		
	+I Z SL	SB	03 33 39.0	1.4	1.96	3		
	+I Z SL	SG	03 33 45.0	1.5	1.62	5		
	Z SL	MAXIMUM	03 34 33.0	1.7	2.20			

TNS	E	P	03 32 58.0				580 5.2	188.6 7.8
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GRF	E Z BE	PN	03 32 53.3				590 5.3	211.0 28.2
	E Z BE	PG	03 33 13.4					
	E N BE	SN	03 34 23.-					
	E N BE	SG	03 34 37.-					

BNS	E Z FS	PN	03 33 02.5	2			660 5.9	178.8 358.9
	E Z FS	-	03 33 09.8					
	E FS	PG	03 33 26.5					
	E N X	SG	03 34 41.5	1.2	2.41			
	E E X	-	03 34 45.0	1.1	2.28			

OCT 09 BCIS  
 H= 07 38 38.0  
 LAT = 45.8 N  
 LONG= 14.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

BCIS = FELT (III) AT POSTOJNA AND (II) AT TRIEST.

OCT 1969				532	OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
GRF	E Z BE E N BE	PG SG	07 40 01.4 07 40 58.4				480 4.4	152.4 334.5
OCT 09 USCGS H= 07 59 41.3 LAT = 52.3 N LONG= 169.5 W DEPTH= 22 KM MAGNITUDE= 5.1 FOX ISLANDS, ALEUTIAN ISLANDS								
BNS	E Z FS E Z FS FS	P - MAXIMUM	08 11 35.1 08 11 46.5 08 55 00.-	2.0	2.00	4	8570 77.1	357.9 2.1
GRF	E Z BE	P	08 11 42.9	1.2	1.58	1	8710 78.4	0.5 359.5
BUH	+E Z GT	P	08 11 48.-	1.5	1.30		8830 79.4	358.6 1.5
OCT 09 USCGS H= 14 07 40.7 LAT = 43.5 N LONG= 147.5 E DEPTH= 30 KM MAGNITUDE= 4.8 KURIL ISLANDS								
GRF	+E Z BE	P	14 19 47.5				8860 79.6	30.8 332.8
BUH	E Z GT	P	14 19 56.-	1.0	0.90		9060 81.5	28.7 334.1
OCT 09 NO DETERMINATION OF EPICENTER								
GRF	E Z BE E N BE	PG SG	14 45 49.5 14 46 27.-					
OCT 09 FUR H= 16 04 52.0 LAT = 47.8 N LONG= 11.1 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED GERMANY								
FUR = PEISSENBERG REGION, BAVARIA. FELT AT PEISSENBERG.								
FUR	-E Z SL +E Z SL Z SL	PG SG MAXIMUM	16 04 58.0 16 05 16.0 16 05 40.0	1.5	0.90	5	40 0.3	202.4 22.3

OCT 1969				533	OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 09 NO DETERMINATION OF EPICENTER								
FUR	-I Z SL +I Z SL Z SL	PG SG MAXIMUM	16 26 35.0 16 26 59.0 16 27 14.0	1.5	1.18	2		
OCT 09 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL +E Z SL Z SL	PG SG MAXIMUM	16 51 50.0 16 52 04.0 16 52 30.0	1.5	0.90	1		
OCT 09 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	21 50 33.0	1.5	0.85	1		
OCT 09 USCGS H= 23 57 10.7 LAT = 44.0 N LONG= 148.6 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.6 KURIL ISLANDS								
GRF	E Z BE	P	00 09 16.6				8850 79.6	29.8 333.5
OCT 10 USCGS H= 00 13 42.3 LAT = 44.0 N LONG= 149.0 E DEPTH= 43 KM MAGNITUDE= 4.8 KURIL ISLANDS								
GRF	+E Z HE	P	00 25 47.4				8860 79.7	29.5 333.7
BNS	E Z FS	P	00 25 50.-	1.8	1.60	2	8870 79.8	26.9 336.6
FUR	+E Z SL -E Z SL -E Z SL	P PCP XPCP	00 25 56.0 00 25 58.0 00 26 14.0	1.5 1.5 1.6	1.08 1.23 1.11	7 2 2	9000 81.0	29.4 332.9
OCT 10 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	11 00 05.0	1.5	1.08	4		

OCT 1969

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 OCT 10  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	12 45 47.0	1.5	0.90	5		
	+E Z SL	-	12 45 54.0	1.8	1.53	2		

 OCT 10  
NO DETERMINATION OF EPICENTER

FUR	Z SL	MAXIMUM	14 49 42.0	1.5	1.40			
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 OCT 10  
NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	16 26 03.5			2		
	E E X	SG	16 26 24.0	1.0	2.08			
	E X	SG	16 26 24.0	1.0	2.11			

GRF	E Z BE	PN	16 26 13.7					
	E Z BE	PG	16 26 18.0					
	E Z BE	SG	16 26 46.-					

FUR	-E Z SL	-	16 28 01.0	1.5	0.85	4		
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 OCT 10 USCGS  
H= 17 09 57.5  
LAT = 29.3 N  
LONG = 130.3 E  
DEPTH = 15 KM  
MAGNITUDE = 4.9  
RYUKYU ISLANDS

FUR	-E Z SL	P	17 22 38.0	1.5	0.90	5	9510 85.5	50.0 324.0
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 OCT 10  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	20 05 23.0	1.6	1.15	2		
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 OCT 11  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	11 09 19.5					
	E Z BE	-	11 09 27.6					
	E N BE	-	11 10 11.-					

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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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 OCT 11 USCGS  
H= 11 12 34.9  
LAT = 27.0 S  
LONG = 176.5 W  
DEPTH = 83 KM  
MAGNITUDE = 4.6  
KERMADEC ISLANDS REGION

FUR	-E Z SL	PKP	11 32 24.0	1.5	0.70	3	17570 158.0	18.8 346.0
	-E Z SL	APKP	11 32 32.0	1.7	1.11	3		
	+E Z SL	PKP2	11 32 55.0	1.5	0.70	2		
	+E Z SL	XPKP	11 33 12.0	1.6	0.90	2		

 OCT 11  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	12 46 42.9					
	E Z BE	-	12 47 01.5					
	E N BE	-	12 47 24.7					

 OCT 12 USCGS  
H= 13 34 15.8  
LAT = 39.7 N  
LONG = 20.4 E  
DEPTH = 14 KM  
MAGNITUDE = 5.1  
GREECE-ALBANIA BORDER REGION

 OCT 12 BCIS  
H= 13 34 20.0  
LAT = 39.8 N  
LONG = 20.7 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GREECE-ALBANIA BORDER REGION

USCGS = 1 INJURED AND DAMAGE IN GREECE.

FUR	-E Z SL	P	13 36 51.0	1.5	1.11	8	1190 10.7	138.6 325.0
	-I Z SL	XP	13 36 57.0	1.8	1.93	3		
	-I Z SL	PP	13 37 01.0	1.7	2.05	2		
	-I Z SL	XPP	13 37 09.0	1.7	2.05	2		
	-I Z SL	-	13 37 37.0	1.5	1.70	4		
	-I Z SL	-	13 38 14.0	1.6	1.65	2		
	+I Z SL	S	13 38 45.0	1.7	1.65	1		
	+I Z SL	SS	13 38 58.0	1.6	1.61	2		
	-I Z SL	-	13 39 33.0	1.6	1.93	2		
	Z SL	MAXIMUM	13 41 00.0	2.0	2.85			

GRF	E Z BE	P	13 37 06.1				1320 11.9	143.2 329.7
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BUH	E Z GT	P	13 37 15.-				1390 12.5	131.1 319.6
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KRL	E Z ST	P	13 37 18.-	1.0	1.90		1410 12.6	132.7 321.2
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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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	E Z ST	-	13 37 23.-						
BNS	-I Z FS	PN	13 37 44.9	1.2	2.00	2	1620	14.6	135.3 324.8
	E N FS	SN	13 40 13.0						
	FS	MAXIMUM	13 44 10.-	16.0					

OCT 12 USCGS

H= 14 22 11.6  
 LAT = 55.2 N  
 LONG= 161.9 E  
 DEPTH= 69 KM  
 MAGNITUDE= 4.6  
 NEAR EAST COAST OF KAMCHATKA

GRF	+E Z BE	P	14 33 33.6				8070	72.6	17.1 340.6
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OCT 12 USCGS

H= 18 54 34.7  
 LAT = 39.9 N  
 LONG= 15.0 E  
 DEPTH=288 KM  
 MAGNITUDE= 4.0  
 SOUTHERN ITALY

GRF	E Z BE	P	18 56 58.-				1130	10.2	163.2 345.9
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OCT 13 USCGS

H= 01 02 28.5  
 LAT = 39.9 N  
 LONG= 20.6 E  
 DEPTH= 8 KM  
 MAGNITUDE= 5.6  
 GREECE-ALBANIA BORDER REGION

OCT 13 BCIS

H= 01 02 32.0  
 LAT = 39.8 N  
 LONG= 20.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GREECE-ALBANIA BORDER REGION

USCGS= 2 INJURED AND DAMAGE IN AREA OF IOANNINA,GREECE.

FUR	-I Z SL	P	01 05 04.0	1.8	2.15	6	1190	10.7	137.6 324.1
	+I Z SL	PP	01 05 11.0	1.6	1.59	4			
	-I Z SL	PPP	01 05 18.0	1.5	1.70	2			
	-I Z SL	-	01 05 27.0	1.5	1.70	2			
	-I Z SL	S	01 06 58.0	1.8	2.65	7			
	-I Z SL	SS	01 07 13.0	1.5	2.04	3			
	+I Z SL	SSS	01 07 36.0	2.0	2.61	2			
	Z SL	MAXIMUM	01 09 00.0	4.0	4.18				

OCT 1969

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	P	01 05 17.6				1320	11.9	142.3 328.9
BUM	+I Z GT	P	01 05 28.5	0.5	0.70		1390	12.5	130.2 318.9
KRL	+I Z ST	P	01 05 31.7	0.7	2.00		1410	12.6	131.8 320.4
TNS	E	P	01 05 48.3				1500	13.5	135.7 324.4
BNS	-I Z FS	PN	01 05 56.0	2.0	2.72	9	1620	14.6	134.5 324.2
	E N FS	SN	01 08 26.0						
	FS	MAXIMUM	01 12 20.-	16.0					
HAM	-I Z SX	P	01 06 09.8			3	1720	15.4	147.5 335.3
	-I Z SX	PP	01 06 21.0			6			
HLG	-I Z X	P	01 06 27.9	1.8	3.02	4	1860	16.7	143.8 333.2
	-I N X	P	01 06 28.3	1.8	3.02	3			
	E X	P	01 06 29.-	1.8	2.99	3			
	E X	L	01 12 00.-	5.9	3.90	2			
	N X	L	01 12 00.-	5.9	3.74	1			
	Z X	L	01 12 00.-	5.0	3.43	1			

OCT 13

NO DETERMINATION OF EPICENTER

GRF	E Z BE	P	01 45 52.1						
	E N BE	S	01 46 51.-						
FUR	+E Z SL	P	01 46 30.0	1.5	0.90	5			
	Z SL	MAXIMUM	01 47 30.0	1.3	2.18				

OCT 13 USCGS

H= 06 56 01.6  
 LAT = 18.9 S  
 LONG= 169.3 E  
 DEPTH=246 KM  
 MAGNITUDE= 5.9  
 NEW HEBRIDES ISLANDS

HAM	E Z SX	PKP	07 15 04.-			2	15780	141.9	32.8 340.0
	E Z SX	-	07 15 07.-			5			
GRF	+E Z BE	PKP	07 15 09.1	1.4	2.18	6	16080	144.6	37.6 335.3
	E Z BE	-	07 26 30.-						
BNS	+I Z FS	PKP	07 15 10.0	1.1	3.19	9	16120	145.0	30.4 340.2
	I Z FS	XPKP	07 16 15.-						
	FS	-	07 18 35.-						
KRL	+E Z ST	PKP	07 15 14.4	1.0	2.30		16260	146.2	33.9 337.2
	I Z ST	-	07 15 17.-						
BUM	+I Z GT	PKP	07 15 15.2	0.8	1.40		16300	146.5	33.9 337.1

OCT 1969



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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 13 USCGS  
H= 09 28 33.0  
LAT = 18.8 S  
LONG= 173.4 W  
DEPTH= 33 KM  
MAGNITUDE= 5.0  
TONGA ISLANDS

BNS	E Z FS	PKP	09 48 18.0	2.0	1.85	3	16450 147.9	1.1 359.3
	E Z FS	-	09 48 50.5					
GRF	E Z BE	PKP	09 48 21.5				16560 149.0	8.6 354.1
BUH	E Z GT	PKP	09 48 18.-	2.0	1.50		16700 150.2	3.2 357.8
FUR	-E Z SL	PKP	09 48 25.0	1.8	1.60	1	16730 150.5	9.1 353.6

OCT 13 USCGS  
H= 12 44 10.0  
LAT = 13.6 N  
LONG= 44.9 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
NORTH ATLANTIC RIDGE

FUR	-E Z SL	P	12 54 04.0	2.0	1.69	2	6400 57.5	253.1 41.2
	-E Z SL	AP	12 54 10.0	2.0	1.69	3		
	+E Z SL	XP	12 54 18.0	1.8	1.76	3		

OCT 13  
NO DETERMINATION OF EPICENTER

FUR	-I Z SL	SG	17 19 26.0	1.5	1.23	2		
	Z SL	MAXIMUM	17 19 42.0	1.5	1.36			

OCT 14 USCGS  
H= 00 33 00.6  
LAT = 21.9 S  
LONG= 170.5 E  
DEPTH= 79 KM  
MAGNITUDE= 4.8  
LOYALTY ISLANDS REGION

GRF	+E Z BE	PKP	00 52 37.4	1.0	1.65	5	16430 147.8	38.0 334.5
BNS	-I Z FS	PKP	00 52 37.7	1.0	1.60	3	16470 148.2	30.3 339.9
FUR	+I Z SL	PKP	00 52 40.0	1.5	1.11	2	16560 148.9	39.7 332.6
	-E Z SL	APKP	00 53 02.0	1.5	1.00	2		
	-I Z SL	-	00 53 34.0	1.7	1.56	4		

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 14 USCGS  
H= 04 03 55.1  
LAT = 27.3 S  
LONG= 176.6 W  
DEPTH= 132 KM  
MAGNITUDE= 4.6  
KERMADEC ISLANDS REGION

FUR	-E Z SL	PKP2	04 24 18.0	1.5	0.90	1	17600 158.2	19.3 345.6
	+E Z SL	XPKP	04 25 15.0	2.0	1.70	1		
	+E Z SL	-	04 25 37.0	2.0	1.70	6		

OCT 14 USCGS  
H= 04 24 55.6  
LAT = 25.1 S  
LONG= 67.8 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.9  
SOUTH INDIAN OCEAN

FUR	+E Z SL	P	04 37 45.0	2.0	1.81	8	9870 88.7	130.9 326.1
	-I Z SL	PCP	04 37 47.0	1.0	2.23	2		
GRF	E Z BE	P	04 37 52.0				9980 89.8	130.8 327.2

OCT 14 BCIS  
H= 07 00 06.0  
LAT = 73.5 N  
LONG= 54.5 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
NOVAYA ZEMLYA

OCT 14 USCGS  
H= 07 00 06.2  
LAT = 73.4 N  
LONG= 54.8 E  
DEPTH= 0 KM (GEOPHYSICIST)  
MAGNITUDE= 6.1  
NOVAYA ZEMLYA

BCIS = PROBABLY ARTIFICIAL.

HLG	+I Z X	P	07 05 52.1	1.0	2.87	7	3010 27.0	27.2 250.0
	E X	P	07 05 52.5	1.0	2.42	2		
	+I N X	P	07 05 53.1	1.2	2.77	4		
	E X	S	07 10 00.-		2.45	2		
HAM	+I Z SX	P	07 05 53.4			9	3020 27.1	26.1 246.9
	E Z SX	-	07 06 08.-			9		
BNS	+I Z X	P	07 06 19.5	8.0	2.78	9	3350 30.1	24.7 247.8
	E E X	S	07 11 55.-					

OCT 1969

OCT 1969			540			OCT 1969		
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	X	LR	07 19 00.-	20.0				
GRF	+I Z BE	P	07 06 21.4	0.8	2.35	9	3360 30.3	22.9 242.1
TNS	I	P	07 06 23.0				3390 30.5	23.9 245.8
HEI	+I Z ST	P	07 06 28.5	0.8	3.11	9	3460 31.2	23.3 244.8
KRL	+I Z ST	P	07 06 33.3	0.5	2.30		3510 31.6	23.1 244.9
STU	+I Z BE	P	07 06 32.5	0.8	2.51	9	3520 31.6	22.8 243.8
BUH	+I Z GT	P	07 06 35.8	0.8	1.80		3550 32.0	23.0 244.8
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	10 26 16.0	1.5	0.90	3		
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	P	10 50 42.0	2.0	1.81	2		
	-E Z SL	-	10 50 49.0	1.5	1.00	2		
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	12 10 54.0	1.2	1.91	6		
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	P	16 08 31.0	1.1	1.90	1		
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	17 08 54.0	1.5	0.90	3		
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	19 38 09.0	1.5	0.90	1		
	+E Z SL	-	19 38 36.0	1.6	1.15	7		

OCT 1969			541			OCT 1969		
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 14 USCGS H= 20 39 11.6 LAT = 37.9 N LONG= 135.1 E DEPTH=371 KM MAGNITUDE= 4.7 SEA OF JAPAN								
GRF	+I Z BE	P	20 50 41.0	0.8	1.52	6	8860 79.7	41.9 326.8
FUR	-E Z SL	P	20 50 46.0	1.5	1.08	4	8980 80.8	41.8 325.7
OCT 14 NO DETERMINATION OF EPICENTER								
GRF	E Z BE	PG	22 34 33.1					
	E N BE	SG	22 34 56.2					
OCT 14 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	P	22 36 23.0	1.5	1.11	4		
OCT 14 USCGS H= 22 46 04.8 LAT = 52.6 N LONG= 162.7 W DEPTH= 15 KM MAGNITUDE= 5.1 SOUTH OF ALASKA								
BNS	E Z FS	P	22 57 12.0			2	8500 76.4	353.7 6.5
	E Z FS	-	22 57 55.-					
GRF	-E Z HE	P	22 58 04.3	0.8	1.43	3	8670 77.9	356.2 4.0
BUH	-E Z GT	P	22 58 06.7	0.8	0.90		8760 78.8	354.4 6.1
FUR	-E Z SL	P	22 58 13.0	1.5	1.18	3	8840 79.5	356.3 4.1
	-E Z SL	PCP	22 58 18.0	1.5	1.00	2		
OCT 14 USCGS H= 23 59 26.0 LAT = 27.0 S LONG= 176.5 W DEPTH= 61 KM MAGNITUDE= 5.3 KERMADEC ISLANDS REGION								
GRF	E Z BE	PKP	00 19 40.-				17410 156.6	17.4 347.4

OCT 1969				542	OCT 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
FUR	+E Z SL	-	00 19 17.0	1.5	1.00	6	17570 158.0	18.7	346.1
	+E Z SL	-	00 19 52.0	1.8	1.53	2			
OCT 15 USCGS									
H= 01 08 14.9									
LAT = 27.2 S									
LONG= 176.5 W									
DEPTH= 58 KM									
MAGNITUDE= 4.9									
KERMADEC ISLANDS REGION									
FUR	-E Z SL	PKP2	01 28 40.0	1.5	0.90	5	17600 158.3	18.9	345.9
OCT 15									
NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	-	04 24 19.0	1.5	0.90	2			
OCT 15									
NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	12 08 06.0	1.5	1.11	2			
	-I Z SL	-	12 09 30.0	1.5	1.30	2			
	-I Z SL	-	12 09 51.0	1.7	1.97	3			
OCT 15									
NO DETERMINATION OF EPICENTER									
GRF	E Z BE	-	15 01 56.5						
OCT 15									
NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	15 50 01.0	1.5	1.08	2			
	Z SL	MAXIMUM	15 50 14.0	1.5	1.40				
OCT 16 USCGS									
H= 14 40 50.6									
LAT = 35.5 S									
LONG= 53.5 E									
DEPTH= 33 KM (NORMAL)									
MAGNITUDE= 4.8									
ATLANTIC-INDIAN RISE									
FUR	+E Z SL	P	14 53 56.0	1.1	1.98	3	10170 91.5	146.7	333.2
	-I Z SL	APCP	14 54 02.0	1.6	1.46	2			
	+E Z SL	AP	14 54 06.0	1.5	1.23	2			
	-E Z SL	XP	14 54 08.0	1.5	1.30	2			

OCT 1969				543	OCT 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
OCT 16									
NO DETERMINATION OF EPICENTER									
FUR	-I Z SL	-	16 24 37.0	1.1	2.20	5			
	-E Z SL	-	16 24 46.0	1.5	1.30	6			
OCT 16 USCGS									
H= 20 45 09.8									
LAT = 19.7 S									
LONG= 174.6 W									
DEPTH= 33 KM (NORMAL)									
MAGNITUDE= 4.8									
TONGA ISLANDS									
BNS	E Z FS	PKP	21 04 53.3			2	16540 148.7	3.3	357.8
	E FS	-	21 05 15.-						
GRF	E Z BE	PKP	21 05 02.5				16640 149.7	11.0	352.5
FUR	+E Z SL	PKP	21 05 01.0	1.5	0.90	5	16810 151.2	11.6	351.8
	+E Z SL	-	21 05 49.0	1.5	1.23	3			
OCT 16									
NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	-	23 00 29.0	1.5	1.11	2			
	-E Z SL	-	23 01 57.0	1.5	1.11	1			
OCT 17 USCGS									
H= 01 25 12.4									
LAT = 23.1 N									
LONG= 94.7 E									
DEPTH=134 KM									
MAGNITUDE= 6.0									
BURMA-INDIA BORDER REGION									
GRF	E Z BE	P	01 36 02.4				7630 68.7	79.3	316.2
	-I Z BE	-	01 36 04.2	0.8	2.23	9			
	E Z BE	XP	01 36 39.6						
	E Z BE	PP	01 38 27.7						
	E Z BE	-	01 40 26.3						
	E N BE	S	01 44 56.-						
HAM	-I Z SX	P	01 36 05.0			9	7650 68.8	79.8	320.3
	E Z SX	AP	01 36 37.-			9			
	E Z SX	-	01 37 36.-			9			
	-I N WI	S	01 44 55.3			3			
FUR	-I Z SL	P	01 36 04.0	1.8	2.77	9	7660 68.9	78.7	314.5
	+I Z SL	PCP	01 36 24.0	1.9	2.32	2			
	+I Z SL	AP	01 36 36.0	1.8	2.68	5			
	-I Z SL	XP	01 36 50.0	1.5	2.12	7			
	-I Z SL	APCP	01 37 05.0	1.5	1.70	3			

OCT 1969				544			OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
+I Z SL	XPCP		01 37 22.0	1.7	2.19	3				
+I Z SL	PP		01 38 43.0	1.7	2.43	6				
+I Z SL	APP		01 39 15.0	1.8	2.60	2				
+I Z SL	XPP		01 39 33.0	1.7	1.97	4				
-E Z SL	S		01 44 55.0	3.0	2.50	2				
+E Z SL	SS		01 49 34.0	2.0	1.91	2				
+E Z SL	SSS		01 52 47.0	3.0	2.32	3				
HLG	-I Z X E N X	P S	01 36 11.1 01 45 05.0	1.0	2.64 2.69	3 2	7760 69.8	78.5	321.3	
HEI	-E Z ST	P	01 35 12.7	1.0	2.63	7	7820 70.3	77.4	316.2	
KRL	-E Z ST	P	01 36 15.7				7850 70.6	77.0	315.8	
BUH	E Z GT -I Z GT	P -	01 36 14.5 01 36 16.5	0.5	2.10	9	7870 70.8	76.8	315.5	
BNS	-I Z FS E Z FS E FS E Z SL E Z SL SL	P PP S - LR MAXIMUM	01 36 17.1 01 39 26.- 01 45 20.- 01 49 56.- 01 58 50.- 02 01 00.-	2.0	2.75	9	7890 70.9	76.8	318.0	
OCT 17 NO DETERMINATION OF EPICENTER										
FUR	-E Z SL	-	09 53 10.0	1.6	1.20	4				
OCT 17 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL -E Z SL	- -	10 52 40.0 10 52 52.0	1.5 1.5	0.90 1.23	5 2				
OCT 17 NO DETERMINATION OF EPICENTER										
GRF	-I Z BE E Z BE	PG SG	12 59 18.3 12 59 45.0							
OCT 17 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL +E Z SL	- -	14 33 47.0 14 33 56.0	1.5 1.6	1.00 1.30	6 9				
OCT 17 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL +E Z SL	- -	14 54 30.0 14 54 42.0	1.0 1.5	1.98 1.23	5 2				

OCT 1969				545			OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.		
OCT 17 NO DETERMINATION OF EPICENTER										
FUR	+E Z SL -E Z SL	- -	15 56 44.0 15 57 16.0	1.5 1.5	0.90 1.18	5 2				
OCT 17 NO DETERMINATION OF EPICENTER										
GRF	E Z BE	P	21 27 02.2							
OCT 18 USCBS H= 01 13 59.7 LAT = 39.3 N LONG = 141.4 E DEPTH=107 KM MAGNITUDE= 5.3 HONSHU, JAPAN										
HAM	E Z SX	P	01 25 51.-			2	8740 78.6	36.4	332.8	
GRF	-E Z BE E Z BE	P AP	01 26 04.7 01 26 36.2	1.0	1.88	7	9020 81.1	36.9	329.9	
BNS	+E Z FS E Z FS E FS	P - -	01 26 06.7 01 26 34.5 01 26 49.5	1.4	1.78	5	9070 81.6	34.2	332.7	
FUR	+I Z SL +I Z SL +I Z SL +E Z SL +E Z SL	P APCP XP XPCP PPP	01 26 11.0 01 26 40.0 01 26 48.0 01 26 53.0 01 31 12.0	1.5 1.5 1.5 2.0 1.5	1.62 1.62 1.23 1.95 1.08	9 4 2 2 1	9150 82.3	36.8	328.9	
STU	+E Z BE	P	01 26 12.5	0.9	2.02	8	9190 82.6	35.4	330.4	
KRL	-E Z ST	P	01 26 14.5	2.0	2.50		9200 82.7	34.9	330.9	
BUH	+E Z GT	P	01 26 14.6	1.0	1.20		9240 83.1	34.8	330.9	
OCT 18 NO DETERMINATION OF EPICENTER										
BNS	+I Z X -I N X -I X	PG SG SG	02 59 56.5 03 00 08.0 03 00 08.0	0.6 0.5 0.6	1.85 2.30 2.20	3				

OCT 1969

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 18 USCGS  
 H= 08 44 00.0  
 LAT = 52.5 N  
 LONG= 173.5 E  
 DEPTH= 24 KM  
 MAGNITUDE= 5.6  
 NEAR ISLANDS, ALEUTIAN ISLANDS

HAM	E Z SX	P	08 55 33.-			3	8180 73.5	10.4 349.8
BNS	+I Z FS	P	08 55 48.4	1.0	1.90	6	8480 76.3	8.6 351.1
	E Z FS	S	09 06 12.-					
	E FS	LR	09 20 00.-	50.0				
GRF	+E Z BE	P	08 55 53.3	1.3	1.94	4	8570 77.1	11.0 348.3
BUH	+E Z GT	P	08 56 00.5	1.2	1.60		8720 78.4	9.1 350.1
FUR	-I Z SL	P	08 56 01.0	1.5	1.70	9	8740 78.6	11.0 347.9
	-I Z SL	-	08 56 46.0	1.9	2.05	1		
	+I Z SL	-	08 57 12.0	1.5	1.43	2		
	-E Z SL	PP	08 59 02.0	1.5	1.11	1		
	-E Z SL	XPP	08 59 13.0	1.8	1.76	2		
	-E Z SL	PPP	09 00 53.0	1.7	1.56	2		

OCT 18  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	12 15 47.0					
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OCT 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	17 01 18.0	2.0	1.91	3		
	+E Z SL	-	17 01 30.0	2.0	1.81	3		
	+E Z SL	-	17 02 03.0	1.5	1.00	1		

OCT 20 USCGS  
 H= 10 40 02.6  
 LAT = 20.5 S  
 LONG= 176.5 W  
 DEPTH=260 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.3  
 FIJI ISLANDS REGION

FUR	+E Z SL	PKP2	10 59 46.0	1.8	1.45	5	16870 151.7	15.6 348.9
	-E Z SL	PP	11 03 21.0	2.2	1.88	4		
	+E Z SL	APP	11 04 23.0	2.0	1.61	5		
	-E Z SL	XPP	11 04 49.0	1.0	1.23	2		

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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 20 USCGS  
 H= 13 11 33.5  
 LAT = 10.8 N  
 LONG= 72.4 W  
 DEPTH= 55 KM  
 MAGNITUDE= 5.1  
 VENEZUELA

USCGS= FORESHOCK.

BUH	E Z GT	P	13 23 15.-	1.0	0.70		8430 75.8	270.3 42.4
KRL	-E Z ST	P	13 23 22.1	1.2	2.40		8440 75.9	270.3 42.1
FUR	-I Z SL	P	13 23 33.0	1.5	1.88	9	8650 77.8	272.6 42.9
	-E Z SL	Xp	13 23 46.0	1.9	2.04	3		
	-I Z SL	XPCP	13 23 54.0	1.5	1.65	2		
	-E Z SL	PP	13 26 31.0	1.5	1.26	3		
	+E Z SL	XPP	13 26 47.0	1.5	1.08	7		
	+E Z SL	PPP	13 28 26.0	1.9	1.84	2		
	-E Z SL	-	13 28 43.0	1.5	1.00	1		

OCT 20 USCGS  
 H= 13 11 37.0  
 LAT = 10.8 N  
 LONG= 72.5 W  
 DEPTH= 40 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.7  
 VENEZUELA

USCGS= FELT AT MARACAIBO AND LAGUNILLAS.  
 MAG. 5 1/4 - 5 1/2 (GOL).

BNS	-I Z FS	P	13 23 17.3	1.5	2.30	9	8360 75.2	268.9 40.1
	E Z FS	-	13 23 43.5					
	E FS	LR	13 46 20.-					
BUH	-E Z GT	P	13 23 20.7	1.0	1.30		8430 75.8	270.3 42.4
TNS	I	P	13 23 22.9				8450 76.0	270.0 40.8
HAM	+I Z SX	P	13 23 29.2			7	8550 76.9	270.4 37.5
GRF	+E Z BE	P	13 23 32.6	1.4	2.30	8	8650 77.8	272.3 41.3

OCT 20 USCGS  
 H= 15 20 36.5  
 LAT = 17.3 N  
 LONG= 95.2 W  
 DEPTH= 87 KM  
 MAGNITUDE= 5.4  
 OAXACA, MEXICO



OCT 1969 548 OCT 1969

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for stations BNS, KRL, BUH, GRF, FUR.

OCT 20 NO DETERMINATION OF EPICENTER

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

OCT 21 NO DETERMINATION OF EPICENTER

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for stations FUR, GRF.

OCT 21 USCGS H= 11 19 05.5 LAT = 0.8 N LONG= 27.9 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.7 CENTRAL MID-ATLANTIC RIDGE

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

OCT 21 NO DETERMINATION OF EPICENTER

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

OCT 21 NO DETERMINATION OF EPICENTER

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station GRF.

OCT 1969 549 OCT 1969

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for stations BE SG, FUR.

OCT 21 NO DETERMINATION OF EPICENTER

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

OCT 21 USCGS H= 19 52 46.8 LAT = 12.0 N LONG= 43.7 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.8 NORTH ATLANTIC RIDGE

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

OCT 21 USCGS H= 20 53 47.5 LAT = 51.3 N LONG= 179.2 W DEPTH= 48 KM MAGNITUDE= 5.9 ANDREANOF ISLANDS, ALEUTIAN IS.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station HLG.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station HAM.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station BNS.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station GRF.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station KRL.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station STU.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station BUH.

Table with columns: STATION ABBREV., COMP. SEIS., PHASE, TIME H M S, PER., LOG. AMP., S/N, DISTANCE KM DEG., AZIMUTH STAT. EPIC. Includes data for station FUR.

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-E Z SL	-		21 06 58.0	1.5	1.23	2		
N SL	MAXIMUM		21 50 00.0	19.0	3.14			

OCT 21 USCGS

H= 23 10 22.0  
 LAT = 39.9 N  
 LONG= 8.5 W  
 DEPTH= 9 KM  
 MAGNITUDE= 4.7  
 PORTUGAL

OCT 21 BCIS

H= 23 10 25.0  
 LAT = 40.0 N  
 LONG= 8.2 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 PORTUGAL

BCIS = FELT (IV) AT COIMBRA AND (II-III) AT LISBON.

FUR	+E Z SL	P	23 14 18.0	1.5	0.90	5	1830 16.4	247.2 53.3
	+E Z SL	PP	23 14 30.0	2.0	1.61	2		
	-E Z SL	-	23 14 40.0	2.2	1.63	2		
	Z SL	MAXIMUM	23 20 40.0	4.0	2.37			

 OCT 22  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	04 49 42.0	1.7	1.26	1		
	+E Z SL	-	04 50 11.0	1.8	1.36	1		

OCT 22 USCGS

H= 05 58 48.8  
 LAT = 4.9 S  
 LONG= 154.2 E  
 DEPTH=390 KM  
 MAGNITUDE= 4.8  
 SOLOMON ISLANDS

GRF	+E Z BE	PKP	06 17 06.3	1.0	1.45	2	13960 125.6	47.5 331.3
FUR	-E Z SL	PKP	06 17 08.0	1.5	0.90	1	14070 126.6	48.4 329.8

OCT 22 USCGS

H= 07 12 07.7  
 LAT = 4.8 S  
 LONG= 152.5 E  
 DEPTH= 71 KM  
 MAGNITUDE= 5.3  
 NEW BRITAIN REGION

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	E Z FS	PKP	07 30 16.2			2	13970 125.6	44.2 333.7
	E Z FS	-	07 31 02.7					

BUH	+E Z GT	PKP	07 31 05.-	1.0	0.90		14090 126.8	46.6 331.1
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OCT 22 USCGS

H= 10 21 52.1  
 LAT = 18.1 S  
 LONG= 71.5 W  
 DEPTH= 23 KM  
 MAGNITUDE= 5.4  
 OFF COAST OF NORTHERN CHILE

BUH	+E Z GT	P	10 35 22.-	1.2	1.00		10770 96.8	250.5 41.1
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FUR	-I Z SL	P	10 35 31.0	1.5	1.18	4	10960 98.6	252.6 42.2
	+I Z SL	AP	10 35 39.0	1.5	1.11	8		
	-E Z SL	PP	10 39 27.0	1.5	0.90	2		
	-E Z SL	APP	10 39 38.0	1.5	1.00	2		

GRF	-E Z BE	P	10 35 33.1				11010 99.0	252.8 40.7
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OCT 22 USCGS

H= 12 11 21.3  
 LAT = 52.2 N  
 LONG= 169.5 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 FOX ISLANDS, ALEUTIAN ISLANDS

BNS	-I Z FS	P	12 23 14.5	2.0	2.20	6	8580 77.2	357.9 2.2
	E Z FS	-	12 23 25.-					

GRF	+E Z BE	P	12 23 22.2				8730 78.5	0.4 359.6
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KRL	E Z WH	P	12 23 26.-				8800 79.1	358.7 1.4
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BUH	+E Z GT	P	12 23 27.-	0.8	0.90		8840 79.5	358.5 1.6
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FUR	-I Z SL	P	12 23 30.0	1.5	1.52	9	8900 80.0	0.5 359.5
	-I Z SL	PCP	12 23 36.0	1.8	1.75	2		
	-I Z SL	XP	12 23 41.0	1.5	1.23	5		
	-E Z SL	-	12 24 20.0	1.5	1.18	3		

OCT 22 USCGS

H= 12 52 22.0  
 LAT = 10.9 N  
 LONG= 62.6 W  
 DEPTH= 79 KM  
 MAGNITUDE= 5.4  
 NEAR COAST OF VENEZUELA

OCT 1969				552		OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
BNS	E Z FS	P	13 03 20.-			3	7650 68.8	261.1	39.5
	E Z FS	-	13 03 40.0						
BUH	+I Z GT	P	13 03 21.7	0.6	0.90		7690 69.2	262.8	42.0
KRL	E Z WH	P	13 03 25.-				7710 69.4	262.8	41.7
TNS	I	P	13 03 24.5				7730 69.5	262.4	40.4
FUR	-I Z SL	P	13 03 35.0	1.5	1.45	6	7910 71.2	265.3	42.8
	-I Z SL	PCP	13 03 56.0	1.5	1.40	4			
	+E Z SL	APCP	13 04 20.0	1.5	1.00	2			
GRF	E Z BE	P	13 03 34.4				7920 71.3	264.8	41.2
	E Z BE	AP	13 03 53.9						
OCT 22 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	PG	12 58 04.6						
	E N BE	SG	12 58 19.1						
OCT 22 NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	16 44 53.0	1.5	0.90	5			
	-E Z SL	-	16 45 03.0	1.5	1.00	1			
OCT 22 NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	17 10 54.0	1.5	0.90	2			
	-E Z SL	-	17 11 05.0	1.5	1.08	1			
OCT 22 USCGS H= 22 51 33.5 LAT = 34.8 N LONG= 121.3 W DEPTH= 15 KM (GEOPHYSICIST) MAGNITUDE= 5.9 OFF COAST OF CALIFORNIA									
BNS	E Z FS	P	23 04 01.0	2.5	2.75	9	9260 83.3	319.6	29.9
	E Z FS	-	23 05 22.-						
	E FS	-	23 07 12.-						
KRL	E Z ST	P	23 04 12.-				9490 85.3	320.6	30.5
BUH	+E Z GT	P	23 04 12.-	2.5	2.00		9510 85.5	320.5	30.8
GRF	+E Z BE	P	23 04 14.5				9550 85.9	322.6	28.7
FUR	+E Z SL	P	23 04 20.0	2.2	2.08	6	9690 87.2	322.7	29.6

OCT 1969				553		OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
	-E Z SL	PCP	23 04 21.0	2.0	1.03	3			
	+E Z SL	APCP	23 04 25.0	2.0	1.91	3			
	+E Z SL	XPCP	23 04 32.0	2.0	1.69	6			
	-E Z SL	PP	23 07 44.0	1.8	1.75	2			
	-E Z SL	APP	23 07 53.0	1.8	1.71	3			
	Z SL	MAXIMUM	23 34 00.0	50.0	3.42				
	Z SL	MAXIMUM	23 43 00.0	21.0	3.81				
OCT 22 NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	-	23 32 05.0	1.5	0.90	5			
	-E Z SL	-	23 32 37.0	1.5	0.90	2			
OCT 23 USCGS H= 02 12 53.4 LAT = 39.0 N LONG= 15.0 E DEPTH=273 KM MAGNITUDE= 4.0 SOUTHERN ITALY									
FUR	-E Z SL	P	02 15 04.0	1.1	2.05	7	1060 9.6	162.4	345.0
BUH	+I Z GT	P	02 15 24.0	0.8	1.00		1210 10.8	150.9	335.6
GRF	E Z BE	P	02 15 25.8				1230 11.0	164.6	347.2
OCT 23 USCGS H= 02 52 54.7 LAT = 14.9 S LONG= 166.8 E DEPTH= 28 KM MAGNITUDE= 4.8 NEW HEBRIDES ISLANDS									
FUR	+E Z SL	PKP	03 12 24.0	1.5	0.90	2	15700 141.2	39.6	333.8
OCT 23 NO DETERMINATION OF EPICENTER									
GRF	E Z BE	PG	14 18 24.5						
	E N BE	SG	14 18 49.7						
OCT 23 NO DETERMINATION OF EPICENTER									
FUR	+E Z SL	PG	17 36 23.0	1.5	0.90	5			
	-E Z SL	SG	17 36 44.0	1.0	2.32	6			
	Z SL	MAXIMUM	17 37 04.0	1.5	1.40				



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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 24 USCGS								
H= 00 27 08.8								
LAT = 25.2 S								
LONG= 178.4 E								
DEPTH=620 KM (GEOPHYSICIST)								
MAGNITUDE= 4.8								
SOUTH OF FIJI ISLANDS								
GRF	E Z BE	PKP	00 46 00.6				17080 153.6	26.8 341.1
	E Z BE	-	00 46 16.8					
FUR	-E Z SL	PKP2	00 46 22.0	1.7	1.65	2	17230 154.9	28.4 339.4
BUH	+E Z GT	PKP	00 46 23.-	1.0	1.10		17270 155.3	21.7 344.3
OCT 24 USCGS								
H= 00 46 14.6								
LAT = 52.5 N								
LONG= 168.6 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.2								
FOX ISLANDS, ALEUTIAN ISLANDS								
BNS	-I Z FS	P	00 58 05.4	1.4	2.00	4	8550 76.9	357.4 2.7
	E Z FS	-	00 58 18.4					
GRF	+E Z BE	P	00 58 13.7				8700 78.2	359.9 0.1
KRL	+E Z ST	P	00 58 16.5				8770 78.9	358.2 2.0
STU	+E Z BE	P	00 58 18.2	1.2	2.07	6	8800 79.1	358.6 1.5
BUH	+E Z GT	P	00 58 18.5	1.3	1.40		8810 79.2	358.0 2.1
FUR	+I Z SL	P	00 58 21.0	1.5	1.70	9	8870 79.7	359.9 0.1
	-I Z SL	AP	00 58 32.0	1.6	1.57	2		
	+I Z SL	APCP	00 58 35.0	1.5	1.52	2		
	-I Z SL	XPCP	00 58 46.0	1.5	1.40	2		
OCT 24 USCGS								
H= 08 29 12.1								
LAT = 33.3 N								
LONG= 119.2 W								
DEPTH= 10 KM								
MAGNITUDE= 5.1								
SOUTHERN CALIFORNIA								
BNS	+I Z FS	P	08 41 50.8	2.3	2.25	3	9310 83.7	317.3 30.8
GRF	+E Z BE	P	08 42 02.-				9610 86.4	320.3 29.7

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 24 USCGS								
H= 11 45 52.7								
LAT = 24.8 N								
LONG= 72.4 E								
DEPTH= 15 KM								
MAGNITUDE= 5.3								
NORTHERN INDIA								
GRF	E Z BE	P	11 55 11.8				5890 53.0	94.5 314.6
OCT 24 BCIS								
H= 14 04 59.9								
LAT = 47.6 N								
LONG= 11.1 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
GERMANY								
NFB = QUARRYBLAST AT ESCHENLOHE, HAVARIA, SHOTPOINT NO. 1								
H= 14 04 59.86, 47 DEG 37 MIN 54 SEC N, 11 DEG 08 MIN 54 SEC E								
HEIGHT= 700 METERS, CHARGE= 21.7 TONS.								
FUR	+E N SL	PG	14 05 12.0	1.0	1.98	5	60 0.5	189.4 9.4
	-I N SL	SG	14 05 20.0	1.0	2.46	2		
	N SL	MAXIMUM	14 05 39.0	1.2	3.08			
GRF	+I Z BE	PN	14 05 34.6				230 2.1	181.3 1.3
	E Z BE	PG	14 05 41.0					
	E N BE	SG	14 06 07.-					
OCT 24 USCGS								
H= 22 30 57.7								
LAT = 20.5 S								
LONG= 172.8 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 5.3								
TONGA ISLANDS REGION								
BNS	E Z FS	PKP	22 50 45.5			2	16640 149.6	0.0 360.0
GRF	+E Z BE	PKP	22 50 49.0				16760 150.7	7.8 354.6
OCT 25								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	09 01 25.0	1.5	1.23	3		
	+E Z SL	-	09 01 33.0	1.5	1.11	1		
OCT 25								
NO DETERMINATION OF EPICENTER								

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	-I Z BE	P6	10 59 19.1					
	I N HE	S6	10 59 41.0					

OCT 25 USCGS

H= 12 03 47.6  
 LAT = 44.1 N  
 LONG= 147.8 E  
 DEPTH= 38 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

GRF	+I Z BE	P	12 15 51.0	1.0	1.81	8	8810 79.2	30.3 333.0
BNS	+I Z FS	P	12 15 50.9	1.0	2.00	5	8820 79.3	27.7 335.9
	E Z FS	-	12 15 58.7					
FUR	+I Z SL	P	12 15 57.0	1.5	1.48	6	8950 80.5	30.2 332.1
	+I Z SL	PCP	12 16 05.0	1.7	1.56	2		
	+E Z SL	APCP	12 16 13.0	1.5	1.11	8		
STU	+E Z BE	P	12 15 57.8	1.0	2.04	7	8970 80.6	28.9 333.7
BUH	+E Z GT	P	12 16 00.3	1.0	1.30		9010 81.0	28.3 334.2

OCT 26 USCGS

H= 03 44 50.4  
 LAT = 27.0 S  
 LONG= 176.5 W  
 DEPTH= 30 KM  
 MAGNITUDE= 5.3  
 KERMADEC ISLANDS REGION

GRF	E Z BE	PKP	04 04 43.0				17420 156.6	17.6 347.3
	E Z BE	PKP2	04 05 12.6					
FUR	-E Z SL	PKP2	04 05 16.0	1.5	0.90	1	17580 158.0	18.9 346.0
	-E Z SL	XPKP	04 05 29.0	1.2	1.91	3		
	-E Z SL	XPKP	04 06 09.0	1.2	1.91	3		

OCT 26 USCGS

H= 04 15 49.7  
 LAT = 21.7 S  
 LONG= 169.9 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 LOYALTY ISLANDS REGION

GRF	E Z BE	PKP	04 35 32.4				16380 147.3	38.9 334.0
BNS	-I Z FS	PKP	04 35 33.2	1.3	1.78	3	16430 147.8	31.3 339.3
FUR	+E Z SL	PKP	04 35 35.0	1.5	1.40	4	16510 148.5	40.5 332.1

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OCT 1969

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E Z SL	PKP2	04 35 45.0	1.7	1.97	9		
BUH	-E Z GT	PKP	04 35 37.5	1.0	1.40		16610 149.3	35.1 335.8

OCT 26 USCGS

H= 06 38 03.4  
 LAT = 16.2 S  
 LONG= 174.0 W  
 DEPTH= 127 KM  
 MAGNITUDE= 5.8  
 TONGA ISLANDS

BNS	-E Z FS	PKP	06 57 27.4				16160 145.3	1.9 358.7
	+I Z FS	-	06 57 29.5	1.5	3.00			
	I FS	-	06 57 59.-					
TNS	I	PKP	06 57 32.0				16230 146.0	4.1 357.2
GRF	E Z BE	PKP	06 57 31.4	1.8	2.38		16270 146.3	9.0 354.0
	-I Z HE	-	06 57 33.7					
	E Z HE	-	06 58 03.6					
KRL	E Z ST	PKP	06 57 35.7				16370 147.2	4.2 357.1
STU	E Z BE	PKP	06 57 33.0	1.2	2.84	3	16390 147.4	5.6 356.1
BUH	+E Z GT	PKP	06 57 33.5	1.5	1.30		16410 147.5	3.9 357.3
	+E Z GT	-	06 57 36.5	1.0	1.90			
FUR	+I Z SL	PKP	06 57 34.0	2.0	2.14	9	16440 147.8	9.5 353.4
	-I Z SL	PKP2	06 57 43.0	1.5	2.10	7		
	-I Z SL	APKP	06 58 22.0	1.8	2.32	9		
	-I Z SL	PP	07 01 10.0	1.5	1.52	2		

OCT 26 BCIS

H= 15 36 50.0  
 LAT = 44.9 N  
 LONG= 17.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

OCT 26 USCGS

H= 15 36 51.8  
 LAT = 44.9 N  
 LONG= 17.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 YUGOSLAVIA

USCGS= 14 DEAD, 1100 INJURED (FIGURES INCLUDE THE EFFECTS OF THE SHOCK OF OCT. 27 AT 08 10 58.3) INTENSITY VII-VIII AT BANJA LUKA. FELT AT BEOGRAD, ZAGREB, LJUBLJANA, TRIESTE AND BUDAPEST. MAG. 6 (PAS).

OCT 1969 558 OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	-I Z SL	PN	15	38	09.0	1.5	1.76	9	590	5.3	125.9	310.3
	-I E SL	PB	15	38	27.0	1.5	2.50	3				
	+I E SL	PG	15	38	48.0	1.7	2.85	1				
	-I Z SL	SN	15	39	16.0	4.0	3.97	5				
	-I Z SL	SR	15	39	35.0	6.0	4.28	2				
	+I Z SL	SG	15	39	44.0	4.0	4.52	8				
Z SL	MAXIMUM		15	40	20.0	6.5	5.24					
RAV	+E Z ST	P	15	38	18.8	1.4	3.38	3	670	6.1	115.6	301.2
GRF	+E Z BE	PN	15	38	22.1				700	6.3	136.9	321.4
HOF	E S WI	-	15	39	59.0				730	6.5	143.9	327.9
	E S WI	SR	15	40	05.0	5.1	3.76	9				
	S WI	MAXIMUM	15	41	10.0	15.0	5.30					
STU	E Z BE	P	15	38	29.2	0.9	3.09	2	750	6.8	121.8	307.7
BUH	E Z GT	P	15	38	34.8				810	7.3	117.9	304.5
	+I Z GT	-	15	38	36.8	0.5	1.60					
KRL	E Z ST	P	15	38	38.5				820	7.3	120.7	307.2
	E Z ST	-	15	38	44.-							
HEI	E Z ST	P	15	38	37.5	0.7	3.15	2	820	7.4	124.4	310.6
	E Z ST	PG	15	39	20.2	0.6	3.74	3				
	I N ST	SN	15	39	57.9	0.5	3.90	5				
TNS	I	P	15	38	47.3				890	8.0	128.3	314.8
	I	S	15	40	10.5							
BNS	+I Z X	PN	15	39	02.5	0.8	2.74	9	1010	9.1	127.9	315.4
	I N X	SN	15	40	38.0	1.0	3.69					
	E X	SG	15	41	41.-	1.5	4.00					
	WI	LR	15	42	00.-							
	E WI	MAXIMUM	15	42	25.-	9.0	5.50					
BOC	+I Z B4	P	15	39	07.5	0.5	2.22	2	1050	9.4	130.6	318.1
	+I E B4	S	15	40	45.7	1.0	3.07	3				
HAM	E Z SX	P	15	39	13.5				1090	9.8	147.7	333.3
	E Z SX	PPP	15	39	30.0							
HLG	N X	P	15	39	00.-	1.0	2.67	1	1240	11.1	142.9	330.1
	E X	P	15	39	00.-	1.0	2.64	2				

 OCT 26  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	15	54	40.7							
	+I Z BE	PG	15	55	09.6							
	E N BE	SG	15	56	25.-							

 OCT 26  
 NO DETERMINATION OF EPICENTER

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
FUR	+E Z SL	P	16	51	30.0	1.5	0.90	1				
	-I Z SL	-	16	51	56.0	1.5	1.23	2				
	-I Z SL	-	16	53	31.0	1.5	1.26	9				
	-I Z SL	-	16	54	13.0	1.5	1.23	2				
GHF	E Z BE	PM	16	51	53.6							
	E Z BE	-	16	52	22.5							
	E Z BE	-	16	53	41.-							

 OCT 26 USCGS  
 H= 19 15 51.2  
 LAT = 43.6 N  
 LONG= 148.2 E  
 DEPTH= 37 KM  
 MAGNITUDE= 5.0  
 KURIL ISLANDS REGION

HAM	E Z SX	P	19	27	42.-				1	8550	76.9	29.8	335.9
GRF	+E Z BE	P	19	27	57.9					8870	79.8	30.3	333.2
BNS	E Z FS	P	19	27	58.0	1.5	1.48	2		8890	79.9	27.7	336.1
FUR	-I Z SL	P	19	28	05.0	1.6	1.30	3		9010	81.1	30.2	332.4
	+E Z SL	-	19	28	07.0	2.0	1.76	7					
	-E Z SL	PCP	19	28	10.0	2.0	1.76	2					
	-I Z SL	APCP	19	28	16.0	1.8	1.75	9					
	-E Z SL	XPCP	19	28	25.0	2.0	1.95	2					
	-E Z SL	-	19	29	11.0	1.5	1.08	7					
+E Z SL	PP	19	31	13.0	2.0	1.76	1						
BUH	E Z GT	P	19	28	06.5	1.5	1.30			9080	81.6	28.2	334.4

 OCT 26 USCGS  
 H= 21 25 32.2  
 LAT = 27.1 S  
 LONG= 176.6 W  
 DEPTH= 44 KM  
 MAGNITUDE= 5.2  
 KERMADEC ISLANDS REGION

GRF	E Z BE	PKP	21	45	52.9					17420	156.6	17.9	347.1
	E Z BE	PP	21	49	27.5								
FUR	+E Z SL	PKP	21	45	45.0	1.5	0.90	2		17580	158.1	19.2	345.7
	+I Z SL	PKP2	21	46	16.0	1.5	1.23	3					

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OCT 1969

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STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 26 USCGS  
 H= 21 39 20.8  
 LAT = 53.4 S  
 LONG= 23.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.9  
 SOUTH OF AFRICA

FUR	-E Z SL	P	21 53 16.0	2.0	1.61	2	11310 101.7	172.6 351.7
	-E Z SL	APCP	21 53 20.0	2.0	1.91	2		
	-I Z SL	-	21 57 05.0	1.6	1.30	2		
	-E Z SL	PP	21 57 22.0	1.5	0.90	1		
	-I Z SL	APP	21 57 37.0	1.5	1.23	5		
	-E Z SL	-	21 59 57.0	2.0	1.91	5		
	Z SL	MAXIMUM	22 31 00.0	30.0	4.07			
	Z SL	MAXIMUM	22 43 30.0	17.0	3.80			
GRF	E Z BE	P	21 53 20.-				11480 103.2	172.5 351.8
	E Z BE	PP	21 57 32.5					
	-E Z BE	-	21 57 36.5					
BNS	+I Z FS	PP	21 57 50.9	2.6	2.11	3	11660 104.9	170.0 349.4
	E Z FS	-	22 07 12.-					
	E FS	LR	22 30 16.-					
HAM	E Z SX	-	21 58 01.-			1	11910 107.1	171.5 351.6
	E Z SX	-	21 58 21.-			3		

OCT 26  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	22 27 25.0	1.7	1.34	2		
	-E Z SL	-	22 29 28.0	1.5	1.08	2		

OCT 27  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	00 25 42.5					
	E N BE	SG	00 27 09.-					

OCT 27 USCGS  
 H= 02 55 35.4  
 LAT = 45.0 N  
 LONG= 17.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 YUGOSLAVIA

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OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 27 BCIS  
 H= 02 55 36.0  
 LAT = 44.9 N  
 LONG= 16.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

USCGS= FELT AT BANJA LUKA AND AT TRIESTE, ITALY.

FUR	-I Z SL	PN	02 56 52.0	1.8	2.15	9	560 5.1	127.1 311.3
	+I E SL	PR	02 57 11.0	1.5	2.58	8		
	+I E SL	PG	02 57 35.0	1.3	2.56	6		
	+I E SL	SN	02 58 02.0	1.3	2.86	6		
	-I E SL	SH	02 58 13.0	1.5	2.68	1		
	-I E SL	SG	02 58 27.0	1.5	2.68	2		
	E SL	MAXIMUM	02 59 00.0	2.0	4.00			
HAV	E Z ST	P	02 57 02.0	1.5	1.99	2	650 5.8	116.3 301.6
	E N ST	S	02 58 39.5	1.5	3.35	2		
GRF	+E Z BE	PN	02 57 04.6				680 6.1	138.3 322.5
	E Z BE	PG	02 57 31.5					
STU	E Z HE	P	02 57 10.0	0.7	2.17	2	730 6.5	122.7 308.3
BUH	E Z GT	P	02 57 17.-				780 7.0	118.5 304.9
KRL	E Z ST	P	02 57 20.-				790 7.1	121.5 307.7
HEI	E Z ST	P	02 57 21.2	0.6	2.18	2	800 7.2	125.2 311.3
TNS	I	P	02 57 30.0				870 7.8	129.2 315.5
	I	S	02 58 54.7					
BNS	+I Z X	PN	02 57 43.3	2.0	1.95	3	990 8.9	128.7 315.9
	E E X	SN	02 59 14.5					
	E X	SG	03 00 22.-	2.5	2.26			
HAM	E Z SX	-	02 58 15.-			1	1080 9.7	148.8 334.1

OCT 27  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	04 29 15.-					
	E N BE	SG	04 30 26.5					

OCT 27 BCIS  
 H= 08 10 56.0  
 LAT = 44.8 N  
 LONG= 17.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

562

OCT 1969

OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 27 USCGS  
 H= 08 10 58.3  
 LAT = 44.9 N  
 LONG= 17.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 YUGOSLAVIA

USCGS= INTENSITY VIII-IX AT BANJA LUKA, 80 PER CENT OF KAKASI, 60 PER CENT OF JABLAN, BUKOVICA AND BAKANCI DESTROYED. FELT AT TRIESTE, ITALY AND BUDAPEST, HUNGARY.  
 MAG. 6 (PAS); 6.3 (GOL).

FUR	+I Z SL	PN	08 12 15.0	2.0	2.61	9	590 5.3	127.3 311.5
	-I N SL	PB	08 12 31.0	4.0	3.40	1		
	-I N SL	-	08 12 43.0	6.0	4.29	9		
	-I N SL	PG	08 12 58.0	3.0	4.00	5		
	-I N SL	SN	08 13 16.0	4.0	4.61	8		
	+I N SL	SB	08 13 32.0	4.0	4.94	2		
	Z SL	MAXIMUM	08 15 00.0	5.0	5.05			
	N SL	MAXIMUM	08 18 40.0	8.0	4.64			
RAV	+E Z ST	P	08 12 25.5	1.7	3.73	4	670 6.0	116.8 302.3
GRF	E Z BE	PN	08 12 28.4				710 6.4	138.0 322.4
	I Z BE	-	08 12 30.0					
HOF	E S WI	-	08 13 46.0				730 6.6	144.8 328.8
	E S WI	SN	08 13 51.0					
	E S WI	-	08 13 57.0					
	E S WI	SB	08 14 12.0	6.0	4.06	9		
	S WI	MAXIMUM	08 15 00.0	8.0	5.25			
BUH	E Z GT	P	08 12 41.-				910 7.3	118.8 305.3
	I Z GT	-	08 12 42.3	0.5	1.60			
KRL	E Z WH	P	08 12 43.-				820 7.3	121.7 308.1
	-E Z WH	-	08 12 44.8	0.4	2.30			
TNS	I	P	08 12 52.8				890 8.0	129.2 315.6
	I	S	08 14 14.5					
BNS	-E Z X	PN	08 13 05.0	1.1	2.91	9	1010 9.1	128.6 316.1
	E N X	SN	08 14 39.5	1.0	3.78			
	I X	SG	08 15 49.-	2.0	4.22			
	E WI	MAXIMUM	08 16 30.-	9.0	5.50			
	N WI	MAXIMUM	08 16 30.-	9.0	5.59			
BOC	+I Z B4	P	08 13 16.2	0.5	2.52	2	1050 9.4	131.3 318.8
	+I E B4	S	08 14 51.7	1.0	3.00	2		
HAN	E Z SX	P	08 13 21.-			1	1100 9.9	148.3 333.8
HLG	N X	-	08 13 41.-	1.0	2.87	2	1240 11.2	143.5 330.6
	Z X	-	08 13 43.-	1.4	2.84	3		
	E X	-	08 13 43.-	1.4	2.83	2		

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 27 USCGS  
 H= 08 42 17.5  
 LAT = 39.8 N  
 LONG= 20.5 E  
 DEPTH= 40 KM  
 MAGNITUDE= 4.5  
 GREECE-ALBANIA BORDER REGION

FUR	-E Z SL	PP	08 45 02.0	2.0	1.91	2	1190 10.7	138.3 324.7
	-I Z SL	-	08 45 27.0	1.5	1.23	2		
	-E Z SL	S	08 46 46.0	1.7	1.65	2		
	-E Z SL	-	08 47 30.0	1.5	1.18	4		
	Z SL	MAXIMUM	08 49 20.0	1.5	1.62			
GRF	E Z BE	PG	08 45 08.5				1320 11.9	143.0 329.5

OCT 27 BCIS  
 H= 08 53 42.0  
 LAT = 44.9 N  
 LONG= 17.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

OCT 27 USCGS  
 H= 08 53 42.7  
 LAT = 44.9 N  
 LONG= 17.0 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 YUGOSLAVIA

BCIS = FELT (I-II) AT TRIESTE.

FUR	-I Z SL	PN	08 55 00.0	1.5	1.70	9	580 5.2	126.4 310.7
	-I E SL	PG	08 55 31.0	1.0	2.56	3		
	E SL	MAXIMUM	08 56 40.0	2.0	3.82			
GRF	+E Z BE	PN	08 55 12.7				700 6.3	137.4 321.8
	E Z BE	PG	08 55 42.-					
BUH	+E Z GT	P	08 55 25.3	0.5	0.90		800 7.2	118.2 304.7
KRL	E Z WH	P	08 55 26.-				810 7.3	121.1 307.5
TNS	I	P	08 55 17.5				890 8.0	128.7 315.1
	I	S	08 57 01.8					
BNS	E Z X	PN	08 55 51.0	0.8	2.00	4	1010 9.1	128.2 315.6
	E N X	SN	08 57 26.-	0.8	2.58			
	E X	SG	08 58 33.-	1.4	2.79			

OCT 1969

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 27 USCGS  
 H= 11 08 00.6  
 LAT = 45.2 N  
 LONG = 16.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.1  
 YUGOSLAVIA

FUR	-E Z SL	PN	11 09 11.0	1.5	0.90	5	540 4.8	126.6 310.6
	-E Z SL	PB	11 09 18.0	1.5	0.90	3		
	+I Z SL	PG	11 09 32.0	1.0	2.18	8		
	+I Z SL	SB	11 10 06.0	1.8	1.75	2		
	Z SL	MAXIMUM	11 11 40.0	1.5	1.43			

GRF	E Z BE	PN	11 09 28.6				660 5.9	138.3 322.4
	E Z BE	PG	11 09 55.2					
	E N BE	SG	11 11 02.5					

BUH	E Z GT	P	11 09 41.-				760 6.6	117.9 304.2
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OCT 27  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	16 58 05.0	1.5	1.18	9		
	-E Z SL	-	16 58 14.0	1.5	1.23	2		

OCT 27  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	21 15 37.0	1.5	0.90	1		
	-E Z SL	-	21 17 21.0	1.5	1.08	2		

OCT 28  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	01 45 14.0	1.5	0.48	3		
	+E Z SL	-	01 45 54.0	1.7	1.49	2		

OCT 28  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	10 53 45.0	1.5	1.00	2		
	-E Z SL	-	10 54 05.0	1.5	1.00	6		

OCT 28  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	P	14 22 10.0	1.5	1.11	3		
	-E Z SL	-	14 22 19.0	1.5	0.90	3		

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OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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OCT 28  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	P	15 39 45.0	2.0	1.76	4		
	-E Z SL	-	15 40 07.0	1.5	0.90	1		
	+E Z SL	-	15 40 17.0	1.5	1.11	2		

OCT 28  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	17 06 27.0	1.1	2.20	5		
	-E Z SL	-	17 06 36.0	1.6	1.30	5		

OCT 28 BCIS  
 H= 18 45 10.0  
 LAT = 36.6 N  
 LONG = 70.9 E  
 DEPTH=230 KM  
 NO MAGNITUDE COMPUTED  
 HINDU KUSH REGION

OCT 28 USCGS  
 H= 18 45 10.6  
 LAT = 36.5 N  
 LONG = 70.9 E  
 DEPTH=229 KM  
 MAGNITUDE= 5.0  
 HINDU KUSH REGION

GRF	+E Z HE	P	18 53 01.2	1.3	1.75	2	4930 44.3	83.7 306.7
	E Z HE	AP	18 53 49.1					
	-E Z HE	PCS	18 58 09.3					

FUR	+I Z SL	P	18 53 01.0	1.5	1.23	2	4950 44.5	82.2 304.5
	-E Z SL	AP	18 53 49.0	1.5	1.23	3		
	+E Z SL	XP	18 54 14.0	2.0	1.81	8		

OCT 29  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	10 48 59.0	1.8	1.59	1		
	-E Z SL	-	10 49 28.0	1.5	1.00	2		

OCT 29 USCGS  
 H= 11 59 12.2  
 LAT = 14.9  
 LONG = 177.5  
 DEPTH=309 KM  
 MAGNITUDE= 4.3  
 FIJI ISLANDS REGION

GRF	+I Z HE	PKP	12 17 12.7	1.1	1.88	4	16080 144.6	14.7 350.2
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OCT 1969 OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 29 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	15 26 43.0	1.5	1.00	1		
	-I Z SL	-	15 26 51.0	1.0	2.32	9		
OCT 29 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	15 31 41.0	1.5	0.90	5		
	Z SL	MAXIMUM	15 34 30.0	1.5	1.40			
OCT 29 NO DETERMINATION OF EPICENTER								
GRF	E Z BE	-	18 19 37.0					
FUR	-E Z SL	-	18 20 41.0	1.5	0.90	2		
	-I Z SL	-	18 22 00.0	1.8	1.93	3		
OCT 29 USCGS H= 22 01 51.4 LAT = 37.1 N LONG= 116.1 W DEPTH= 0 KM MAGNITUDE= 5.7 SOUTHERN NEVADA								
USCGS= 37 DEG 08 MIN 35.9 SEC N, 116 DEG 03 MIN 49.8 SEC W NEVADA TEST SITE #CALABASH#, (AEC). MAG. 5.7 (PAS).								
BNS	E Z FS	P	22 13 58.5	1.3	2.11	5	8800 79.1	317.1 32.6
BUH	+E Z GT	P	22 14 09.-	1.0	1.30		9040 81.3	318.1 33.6
STU	+E Z BE	P	22 14 11.3	1.6	2.07	2	9080 81.6	318.7 33.1
GRF	+E Z BE	P	22 14 12.7				9090 81.8	320.0 31.5
FUR	-I Z SL	P	22 14 20.0	1.5	1.62	8	9230 83.0	320.2 32.4
	+I Z SL	-	22 14 48.0	1.5	1.23	2		
OCT 30 USCGS H= 00 05 39.4 LAT = 37.6 N LONG= 140.1 E DEPTH=151 KM MAGNITUDE= 5.0 HONSHU, JAPAN								
GRF	-E Z BE	P	00 17 44.6				9120 82.1	38.7 329.3

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OCT 1969 OCT 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
E Z RE AP 00 18 22.8								
FUR	+I Z SL	P	00 17 50.0	1.5	1.40	9	9250 83.2	38.6 328.3
	-I Z SL	AP	00 18 28.0	1.5	1.30	4		
	-E Z SL	APCP	00 18 36.0	1.5	1.08	1		
STU	-E Z BE	P	00 17 52.1	1.2	2.05	3	9300 83.6	37.2 329.8
BUH	-E Z GT	P	00 17 54.-	1.0	0.90		9350 84.1	36.5 330.2
OCT 30 USCGS H= 00 47 59.8 LAT = 22.4 N LONG= 121.4 E DEPTH= 48 KM MAGNITUDE= 4.4 TAIWAN REGION								
FUR	+E Z SL	AP	01 00 53.0	1.5	0.90	3	9570 86.1	60.5 320.9
	-E Z SL	XPCP	01 00 59.0	1.5	0.90	3		
OCT 30 USCGS H= 08 37 38.4 LAT = 45.5 N LONG= 27.5 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.4 NORTH ATLANTIC RIDGE								
BNS	+I Z FS	P	08 42 51.4	2.0	1.95	3	2620 23.6	270.3 64.1
	E Z FS	LR	08 49 00.-	35.0				
	FS	MAXIMUM	08 51 00.-	20.0				
FUR	+E Z SL	P	08 43 13.0	1.5	1.11	2	2940 26.5	278.9 70.2
	-I Z SL	AP	08 43 19.0	2.0	1.91	2		
	-I Z SL	PP	08 43 56.0	1.5	1.11	8		
	-E Z SL	-	08 44 17.0	1.8	1.65	3		
	+E Z SL	PCP	08 46 32.0	1.8	1.45	3		
	+E Z SL	APCP	08 46 40.0	1.5	1.11	2		
OCT 30 USCGS H= 10 42 29.7 LAT = 7.6 S LONG= 127.8 E DEPTH=138 KM MAGNITUDE= 4.5 BANDA SEA								
FUR	+I Z SL	XPP	11 02 46.0	1.0	2.06	1	12580 113.1	74.8 319.3
	-I Z SL	-	11 03 35.0	1.5	1.18	2		

OCT 1969		568		OCT 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 30 USCGS								
H= 12 17 22.3								
LAT = 52.3 N								
LONG= 95.8 E								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.8								
CENTRAL RUSSIA								
GRF	+E Z BE	P	12 26 18.2				5600 50.3	52.5 302.9
	+I Z BE	AP	12 26 24.2					
FUR	+I Z SL	P	12 26 24.0	1.5	1.23	5	5700 51.3	51.6 301.3
	-E Z SL	APCP	12 27 50.0	1.5	1.11	2		
OCT 30								
NO DETERMINATION OF EPICENTER								
FUR	-I Z SL	P	17 56 27.0	1.0	2.23	9		
	+I Z SL	-	17 56 36.0	1.5	1.26	9		
OCT 30								
NO DETERMINATION OF EPICENTER								
GRF	+E Z BE	PN	19 05 10.3					
	+I Z BE	PG	19 05 11.9					
	E N BE	SG	19 05 36.2					
OCT 30								
NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	22 55 17.0	1.5	1.11	2		
OCT 31								
NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	00 38 02.0	1.5	1.00	2		
OCT 31 USCGS								
H= 05 32 58.8								
LAT = 45.7 N								
LONG= 27.7 W								
DEPTH= 33 KM (NORMAL)								
MAGNITUDE= 4.3								
NORTH ATLANTIC RIDGE								
FUR	+E Z SL	P	05 38 34.0	2.0	1.61	2	2950 26.5	279.4 70.5
	+E Z SL	XP	05 38 44.0	1.5	0.90	5		
	-E Z SL	PP	05 39 14.0	2.4	1.91	6		
	-E Z SL	-	05 39 37.0	1.5	1.00	2		

OCT 1969		569		OCT 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
OCT 31 USCGS								
H= 06 43 17.5								
LAT = 45.8 N								
LONG= 150.7 E								
DEPTH= 9 KM								
MAGNITUDE= 5.2								
KURIL ISLANDS								
GRF	+I Z BE	P	06 55 21.7	1.0	1.97	9	8740 78.6	27.6 334.5
BNS	+I Z FS	P	06 55 21.0	1.2	2.23	9	8740 78.6	25.1 337.5
	E Z FS	LR	07 44 00.-					
	FS	MAXIMUM	07 55 00.-	16.0				
FUR	+I Z SL	P	06 55 29.0	1.5	1.70	9	8890 79.9	27.5 333.8
	-E Z SL	-	06 56 33.0	1.5	1.23	3		
STU	+E Z BE	P	06 55 28.2	1.0	2.10	3	8900 80.0	26.2 335.3
BUH	+I Z GT	P	06 55 30.8	1.0	1.40		8940 80.4	25.6 335.8
OCT 31 USCGS								
H= 07 00 13.4								
LAT = 37.1 N								
LONG= 142.0 E								
DEPTH= 40 KM								
MAGNITUDE= 5.0								
OFF EAST COAST OF HONSHU, JAPAN								
GRF	E Z BE	P	07 12 38.3				9260 83.2	37.5 330.3
FUR	+E Z SL	P	07 12 44.0	1.7	1.65	3	9390 84.4	37.5 329.4
	-E Z SL	APCP	07 12 55.0	1.5	1.08	7		
	-E Z SL	-	07 13 10.0	1.5	1.23	5		
	N SL	MAXIMUM	07 54 30.0	14.0	3.84			
BUH	+E Z GT	P	07 12 47.-	2.0	1.30		9480 85.2	35.4 331.3
OCT 31 USCGS								
H= 07 27 55.9								
LAT = 17.3 S								
LONG= 174.2 E								
DEPTH= 56 KM								
MAGNITUDE= 5.1								
FIJI ISLANDS REGION								
BNS	E Z FS	PKP	07 47 30.-	1.5	1.48	2	16110 144.8	21.8 345.8
	E Z FS	-	07 47 44.-					
GRF	+E Z BE	PKP	07 47 29.1				16110 144.9	29.0 340.8
FUR	-I Z SL	PKP	07 47 33.0	2.0	1.76	4	16260 146.2	30.2 339.4
	-I Z SL	PKP2	07 47 40.0	1.7	1.95	4		



OCT 1969				570		OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
-I Z SL	APKP		07 47 44.0	1.5	1.83	4			
+I Z SL	XPKP		07 47 48.0	1.5	1.76	2			
-I Z SL	APKP		07 47 51.0	1.5	1.67	2			
KRL	E Z WH	PKP	07 47 35.-				16270 146.3	24.9 343.1	
BUH	E Z GT	PKP	07 47 32.-				16310 146.7	24.9 343.0	
	-E Z GT	-	07 47 35.7	1.2	1.10				
OCT 31 USCGS									
H= 07 34 15.9									
LAT = 17.3 S									
LONG= 174.3 E									
DEPTH= 57 KM									
MAGNITUDE= 5.0									
FIJI ISLANDS REGION									
GRF	+E Z BE	PKP	07 53 48.2				16110 144.9	28.9 340.8	
FUR	-E Z SL	PKP	07 53 56.0	2.0	1.99	4	16260 146.2	30.1 339.4	
	+I Z SL	APKP	07 54 03.0	1.8	2.05	3			
	-I Z SL	XPKP	07 54 07.0	1.8	1.93	3			
OCT 31 USCGS									
H= 08 53 26.3									
LAT = 33.2 N									
LONG= 47.9 E									
DEPTH= 51 KM									
MAGNITUDE= 5.0									
WESTERN IRAN									
OCT 31 BCIS									
H= 08 53 30.0									
LAT = 33.2 N									
LONG= 48.3 E									
DEPTH= 120 KM									
NO MAGNITUDE COMPUTED									
WESTERN IRAN									
USCGS= MODERATE DAMAGE AT MALAVI, POLE DUKHTAR, KUH-I-DASHT AND HALF GEL.									
FUR	-I Z SL	P	08 59 41.0	1.5	1.40	8	3460 31.2	105.1 309.5	
	-E Z SL	-	08 59 56.0	1.5	1.11	8			
GRF	+E Z BE	P	08 59 46.0	1.0	1.56	3	3520 31.6	107.4 312.3	

OCT 1969				571		OCT 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
OCT 31 USCGS									
H= 11 33 04.8									
LAT = 51.3 N									
LONG= 179.0 W									
DEPTH= 49 KM									
MAGNITUDE= 6.0									
ANDREANOF ISLANDS, ALEUTIAN IS.									
BNS	+I Z X	P	11 45 00.0	1.5	2.80	9	8670 78.0	4.0 356.0	
	E Z X	PP	11 47 55.-						
	E X	PPP	11 49 44.-						
	E E SL	S	11 54 50.-						
	E Z SL	LR	12 10 00.-	52.0					
	2 SL	MAXIMUM	12 24 00.-	10.0					
GRF	E Z BE	P	11 45 05.8				8780 79.0	6.5 353.3	
KRL	E Z ST	P	11 45 11.0				8880 79.9	4.7 355.0	
STU	+E Z BE	P	11 45 11.3	1.2	2.67	3	8900 80.0	5.2 354.5	
BUH	+E Z GT	P	11 45 11.8				8920 80.2	4.6 355.1	
	E Z GT	-	11 45 13.8	0.4	1.50				
FUR	+I Z SL	P	11 45 13.0	2.0	2.46	7	8950 80.5	6.5 353.0	
	-I Z SL	AP	11 45 23.0	1.7	2.13	6			
	+I Z SL	XP	11 45 28.0	1.5	1.65	2			
	+I Z SL	XPCP	11 45 35.0	2.0	2.31	2			
	+I Z SL	PP	11 48 17.0	2.0	2.12	2			
	+I Z SL	APP	11 48 30.0	1.7	1.80	2			
	-E Z SL	SP	11 56 07.0	3.6	2.56	5			
	-E Z SL	-	11 56 30.0	2.3	2.26	3			
	Z SL	MAXIMUM	12 29 00.0	18.0	3.96				
OCT 31									
NO DETERMINATION OF EPICENTER									
FUR	-E Z SL	-	13 44 15.0	1.5	1.11	8			
	-E Z SL	-	13 44 23.0	1.5	1.11	8			
NOV 01 USCGS									
H= 11 08 20.9									
LAT = 23.1 N									
LONG= 107.9 W									
DEPTH= 33 KM (NORMAL)									
MAGNITUDE= 5.6									
GULF OF CALIFORNIA									
BNS	+E Z X	P	11 21 13.5	1.5	2.18	7	9650 86.8	303.4 35.0	
	E Z X	S	11 31 53.-						
	E X	LR	11 74 00.-						
KRL	E Z WH	P	11 21 23.-				9850 88.6	304.4 36.2	

NOV 1969				572	NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BUH	E Z GT	P	11 21 17.-				9860 88.6	304.3 36.5
GRF	E Z BE	P	11 21 26.0				9970 89.7	306.5 34.6
	E Z BE	-	11 22 57.-					
	E Z BE	PP	11 24 43.-					
FUR	-E Z SL	APCP	11 21 28.0	2.0	1.61	5	10070 90.6	306.5 35.8
	+E Z SL	AP	11 21 31.0	1.8	1.45	1		
	-E Z SL	XPCP	11 21 36.0	1.5	1.23	5		
	-I Z SL	APP	11 25 07.0	1.9	1.84	5		
	-E Z SL	XPP	11 25 14.0	2.8	2.46	9		
	N SL	MAXIMUM	11 54 30.0	22.0	5.14			
	Z SL	MAXIMUM	12 05 00.0	14.0	4.23			
NOV 01 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	P	15 18 30.0	1.5	1.11	8		
	-E Z SL	-	15 18 46.0	1.8	1.65	4		
	+E Z SL	-	15 19 16.0	2.0	1.91	5		
GRF	E Z BE	-	15 18 46.5					
NOV 02 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	01 20 08.0	1.5	0.90	5		
	-E Z SL	-	01 20 41.0	1.5	1.00	2		
NOV 02 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	02 16 04.0	1.5	0.90	5		
	+E Z SL	-	02 18 15.0	1.5	1.08	4		
NOV 03 NO DETERMINATION OF EPICENTER								
GRF	E Z BE	-	16 47 25.0					
FUR	+E Z SL	P	16 47 30.0	1.5	1.00	1		
	-E Z SL	-	16 49 21.0	2.0	1.87	2		
NOV 04 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	14 41 26.0	1.5	0.90	5		
	Z SL	MAXIMUM	14 41 50.0	1.5	1.23			
NOV 04 NO DETERMINATION OF EPICENTER								

NOV 1969				573	NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-E Z SL	P	15 30 17.0	1.5	1.23	3		
NOV 04 NO DETERMINATION OF EPICENTER								
FUR	+I Z SL	-	16 43 31.0	1.5	1.23	2		
	-I Z SL	-	16 43 42.0	1.5	1.30	2		
NOV 04 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	16 56 21.0	1.8	1.65	2		
	Z SL	MAXIMUM	16 56 44.0	1.5	1.48			
NOV 04 NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	17 14 29.0	1.5	0.90	1		
	Z SL	MAXIMUM	17 14 46.0	1.5	1.40			
NOV 04 USCGS H= 20 17 47.7 LAT = 40.3 N LONG= 50.3 E DEPTH= 29 KM MAGNITUDE= 5.0 CASPIAN SEA								
NOV 04 BCIS H= 20 17 57.0 LAT = 39.8 N LONG= 49.9 E NO DEPTH COMPUTED NO MAGNITUDE COMPUTED CASPIAN SEA								
FUR	-E Z SL	-	20 24 16.0	1.5	0.90	5	3200 28.8	91.3 299.0
	-E Z SL	PP	20 24 28.0	1.9	1.68	4		
	+E Z SL	PPP	20 24 41.0	2.0	1.76	2		
	-E Z SL	-	20 24 56.0	1.5	1.00	6		
NOV 04 USCGS H= 22 04 11.9 LAT = 0.1 S LONG= 125.0 E DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.4 MOLUCCA SEA								
FUR	-E Z SL	-	22 22 14.0	1.5	0.90	5	11750 105.7	72.0 320.5
	-E Z SL	PP	22 22 41.0	2.0	1.87	2		

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NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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+E Z SL	APP	22 22 51.0	2.0	1.81	2			
+E Z SL	XPP	22 22 55.0	2.0	1.69	3			

NOV 04 USCGS  
H= 23 40 22.7  
LAT = 22.2 S  
LONG= 179.7 W  
DEPTH=610 KM  
MAGNITUDE= 5.1  
SOUTH OF FIJI ISLANDS

BNS	I Z FS	PKP	23 59 07.9	1.3	1.95	2	16770 150.8	13.2 351.0
GRF	+E Z BE	PKP	23 59 09.5	1.1	1.74	3	16810 151.2	21.4 345.2
	+I Z BE	-	23 59 20.4	1.0	1.65	5		
	E Z BE	APKP	00 01 24.-					
FUR	+I Z SL	PKP	23 59 04.0	1.5	1.18	5	16970 152.6	22.4 343.9
	+E Z SL	PKD2	23 59 26.0	1.3	1.90	4		
	-E Z SL	APKP	00 01 30.0	1.5	1.23	3		
	-I Z SL	APKP	00 01 41.0	1.5	1.62	6		
BUH	E Z GT	PKP	23 59 05.-	2.0	1.50		16990 152.8	16.3 348.4

NOV 05 USCGS  
H= 17 54 13.6  
LAT = 34.8 N  
LONG= 121.2 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.8  
OFF COAST OF CALIFORNIA

HAM	E Z SX	P	18 06 36.-			1	9160 82.4	321.3 27.0
BNS	+I Z X	P	18 06 40.0	3.5	3.07	9	9260 83.3	319.5 29.9
	E Z X	PP	18 09 39.-					
	E X S	S	18 17 10.-					
	E Z SL	SS	18 22 45.-					
	E Z SL	LR	18 34 00.-	52.0				
	SL	MAXIMUM	18 43 00.-	20.0				
TNS	I	P	18 06 46.0				9380 84.3	320.5 29.8
	I	PP	18 09 25.0					
	E	S	18 17 25.0					
KHL	+E Z ST	P	18 06 48.-	4.0	3.10		9480 85.3	320.5 30.6
BUH	+E Z GT	P	18 06 50.-	2.0	1.50		9500 85.4	320.4 30.9
GRF	+E Z BE	P	18 06 53.0	2.0	2.31	3	9550 85.9	322.5 28.7
FUR	+E Z SL	P	18 06 58.0	4.0	2.78	4	9690 87.1	322.6 29.6
	-E Z SL	XPCP	18 07 16.0	2.0	1.91	2		
	-I Z SL	-	18 07 22.0	2.0	1.95	2		

575

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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-I Z SL	-	18 07 54.0	2.0	1.95	2			
-E Z SL	PP	18 10 21.0	1.8	1.79	5			
-E Z SL	APP	18 10 33.0	1.7	1.69	2			
Z SL	MAXIMUM	18 37 00.0	43.0	3.82				
Z SL	MAXIMUM	18 45 30.0	18.0	3.97				

NOV 05 USCGS  
H= 19 02 18.1  
LAT = 26.5 N  
LONG= 53.6 E  
DEPTH= 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
SOUTHERN IRAN

FUR	+E Z SL	P	19 09 46.0	1.7	1.49	7	4380 39.4	107.9 314.7
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NOV 05 USCGS  
H= 20 25 13.8  
LAT = 27.7 N  
LONG= 90.2 E  
DEPTH= 13 KM  
MAGNITUDE= 5.0  
BHUTAN

FUR	+E Z SL	P	20 35 41.0	1.5	1.11	8	6980 62.8	78.1 312.4
BUH	+I Z GT	P	20 35 53.5	0.6	0.70		7190 64.7	76.3 313.4

NOV 06 USCGS  
H= 01 55 43.0  
LAT = 43.6 N  
LONG= 147.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
KURIL ISLANDS

GRF	E Z BE	P	02 07 49.3				8860 79.6	30.4 333.1
BUH	+E Z GT	P	02 08 01.-	0.6	0.40		9060 81.5	28.4 334.3

NOV 06 USCGS  
H= 13 21 21.0  
LAT = 3.9 N  
LONG= 32.4 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.0  
CENTRAL MID-ATLANTIC RIDGE

BUH	+E Z GT	P	13 31 01.-	2.0	1.30	2	6280 56.5	231.3 31.2
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NOV 1969				576	NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
BNS	-I Z FS	P	13 31 20.0			3	6390 57.4	229.0 28.6
FUR	+I Z SL	P	13 31 12.0	1.5	1.23	9	6430 57.8	234.6 33.1
	-I Z SL	AP	13 31 20.0	1.5	1.26	2		
	+E Z SL	XP	13 31 24.0	1.5	1.18	2		
GRF	E Z BE	P	13 31 16.3				6520 58.7	233.8 31.7
NOV 06 NO DETERMINATION OF EPICENTER								
FUR	-I Z SL	P	16 07 14.0	1.4	1.51	7		
	+I Z SL	-	16 07 27.0	1.5	1.23	2		
NOV 06 USCGS H= 20 20 18.5 LAT = 51.5 N LONG= 178.9 W DEPTH= 36 KM MAGNITUDE= 5.5 ANDREANOF ISLANDS, ALEUTIAN IS.								
HAM	I Z SX	P	20 32 03.0			1	8360 75.2	5.7 354.5
BNS	+E Z SL	P	20 32 14.-	20.0		9	8650 77.8	3.9 356.1
	E Z SL	P	20 32 15.0	1.0	2.08			
	E SL	S	20 42 16.-					
	E Z SL	SS	20 47 20.-					
	E Z SL	LR	20 57 20.-	48.0				
	SL	MAXIMUM	21 11 30.-	20.0				
GRF	-I Z BE	P	20 32 20.2	0.9	1.68	6	8770 78.9	6.4 353.3
KRL	+E Z ST	P	20 32 26.0	0.5	1.90		8860 79.7	4.6 355.1
BUH	-E Z GT	P	20 32 25.5				8900 80.1	4.5 355.2
	+E Z GT	-	20 32 27.2	0.7	1.00			
FUR	-I Z SL	P	20 32 29.0	1.0	2.23	2	8940 80.4	6.4 353.1
	-I Z SL	PCP	20 32 34.0	1.5	1.45	2		
	-I Z SL	APCP	20 32 42.0	2.0	2.17	6		
	-I Z SL	-	20 32 52.0	1.6	1.54	3		
	-I Z SL	PP	20 35 39.0	1.5	1.23	2		
	+E Z SL	APP	20 35 45.0	1.5	1.23	5		
	N SL	MAXIMUM	21 08 00.0	22.0	3.42			
NOV 07 NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	01 48 13.0	1.5	0.90	1		
	+I Z SL	-	01 50 22.0	1.7	1.90	2		

NOV 1969				577	NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
NOV 07 USCGS H= 12 11 46.5 LAT = 3.1 S LONG= 12.0 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 4.9 NORTH OF ASCENSION ISLAND								
FUR	+E Z SL	P	12 21 16.0	1.5	1.52	9	6110 54.9	208.8 18.9
NOV 07 USCGS H= 12 45 35.3 LAT = 2.9 S LONG= 12.0 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.2 NORTH OF ASCENSION ISLAND								
FUR	+E Z SL	P	12 55 04.0	1.8	2.01	9	6100 54.8	208.9 18.9
	+E Z SL	-	12 55 09.0	1.8	2.05	7		
NOV 07 USCGS H= 13 04 24.9 LAT = 2.9 S LONG= 12.0 W DEPTH= 33 KM (NORMAL) MAGNITUDE= 5.0 NORTH OF ASCENSION ISLAND								
FUR	-I Z SL	P	13 13 54.0	1.5	1.40	2	6100 54.8	208.9 18.9
	+I Z SL	-	13 14 11.0	2.0	2.09	4		
	-I Z SL	-	13 14 41.0	1.5	1.23	3		
NOV 07 USCGS H= 13 41 13.4 LAT = 26.6 N LONG= 126.3 E DEPTH= 123 KM MAGNITUDE= 5.3 RYUKYU ISLANDS								
GRF	-E Z BE	P	13 53 35.2	1.2	1.61	2	9420 84.7	54.5 323.8
FUR	-I Z SL	P	13 53 39.0	1.5	1.92	9	9510 85.6	54.5 322.5
	-E Z SL	AP	13 54 05.0	1.7	1.49	7		
	-I Z SL	APCP	13 54 09.0	1.7	1.83	3		
	+I Z SL	XPCP	13 54 14.0	1.8	1.93	2		
BNS	I Z FS	P	13 53 42.7	2.0	2.04	4	9570 86.0	51.7 326.4
BUH	I Z GT	P	13 53 46.5	1.0	1.30	4	9660 86.9	52.3 324.1

NOV 1969 578 NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 07 USCGS  
 H= 16 41 06.7  
 LAT = 2.8 S  
 LONG= 12.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 NORTH OF ASCENSION ISLAND

FUR	+I Z SL	P	16 50 34.0	2.0	1.91	9	6090 54.7	209.0 19.0
	+I Z SL	AP	16 50 40.0	1.7	1.99	9		
BNS	E Z FS	P	16 50 50.1			2	6230 56.1	203.4 14.6

NOV 07 USCGS  
 H= 18 20 35.8  
 LAT = 2.9 S  
 LONG= 12.0 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 NORTH OF ASCENSION ISLAND

FUR	+I Z SL	P	18 30 04.0	1.8	1.93	2	6090 54.8	208.9 18.9
	+E Z SL	AP	18 30 14.0	2.4	2.31	3		
	N SL	MAXIMUM	18 56 00.0	20.0	4.30			

NOV 07 USCGS  
 H= 18 33 59.9  
 LAT = 27.9 N  
 LONG= 60.1 E  
 DEPTH= 35 KM  
 MAGNITUDE= 6.1  
 SOUTHERN IRAN

NOV 07 BCIS  
 H= 18 34 07.0  
 LAT = 28.0 N  
 LONG= 60.1 E  
 DEPTH= 105 KM  
 NO MAGNITUDE COMPUTED  
 SOUTHERN IRAN

USCGS= FELT IN SOUTHERN IRAN.  
 MAG. 7 (GOL).

FUR	+I Z SL	P	18 41 53.0	1.5	1.83	7	4740 42.6	100.4 312.0
	+I Z SL	-	18 41 55.0	1.5	1.88	5		
	+I Z SL	-	18 43 02.0	1.8	2.24	5		
	-I Z SL	S	18 48 16.0	1.5	1.92	7		
	-I Z SL	SS	18 51 27.0	1.5	1.62	2		
	+I Z SL	SSS	18 52 03.0	2.0	2.46	4		
	Z SL	MAXIMUM	19 00 30.0	26.0	4.46			
GRF	+I Z BE	P	18 41 57.0	1.2	1.97	5	4780 43.0	102.0 314.1

NOV 1969 579 NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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STU	+E Z SL	P	18 42 06.0	16.0	3.88	9	4900 44.1	99.2 312.5
	+E N SL	S	18 48 24.0	34.0	4.22	9		
MEI	E Z ST	P	18 42 08.6	1.4	2.48	3	4950 44.5	99.5 313.3
MAM	E Z SX	P	18 42 11.-			3	4960 44.6	104.6 319.2
	-I Z SX	Xp	18 42 24.9			2		
KRL	+E Z ST	P	18 42 11.-	1.2	2.27		4960 44.6	98.8 312.7
BUH	+E Z GT	P	18 42 09.2	0.5	1.00		4970 44.7	98.3 312.2
TNS	I	P	18 42 13.0				4980 44.8	100.0 314.4
BNS	+I Z X	P	18 42 20.0	4.5	2.98	6	5090 45.7	99.6 315.2
	E Z X	PP	18 44 14.-					
	X	S	18 48 55.-					
	+I N SL	SS	18 52 07.-					
	E Z SL	LR	18 56 35.-					
	SL	MAXIMUM	18 58 00.-					
HLG	E E X	P	18 42 22.0	1.2	2.98	2	5110 46.0	103.4 319.8
	I Z X	P	18 42 22.1	1.0	2.72	2		

NOV 07  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	19 05 25.-					
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NOV 07  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	P	22 05 06.0	1.5	1.34	7		
	-I Z SL	-	22 05 47.0	1.5	1.23	2		
	+E Z SL	-	22 06 07.0	1.7	1.65	1		
GRF	E Z BE	-	22 05 20.8					
	-I Z BE	-	22 05 33.4					

NOV 08 USCGS  
 H= 01 41 41.3  
 LAT = 16.2 S  
 LONG= 167.5 E  
 DEPTH= 23 KM  
 MAGNITUDE= 5.7  
 NEW HEBRIDES ISLANDS

FUR	+I Z SL	PKP	02 01 12.0	1.5	1.51	7	15860 142.6	39.6 333.6
	+I Z SL	XPKP	02 01 26.0	2.0	2.09	4		
	+E Z SL	-	02 01 46.0	1.7	1.83	4		

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NOV 1969				NOV 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.

NOV 08 FUR  
H= 15 26 00.0  
LAT = 47.7 N  
LONG= 11.1 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
GERMANY

FUR = PEISSENBERG AREA, BAVARIA.

FUR	Z SL	MAXIMUM	15 26 36.0	1.6	1.43		50 0.5	194.3 14.2
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NOV 08 USCGS  
H= 21 55 09.2  
LAT = 1.1 S  
LONG= 127.0 E  
DEPTH= 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
HALMAHERA

FUR	+I Z SL	-	22 14 10.0	1.5	1.34	7	11980 107.8	71.1 320.7
	+I Z SL	-	22 14 14.0	2.0	2.09	3		

NOV 09 USCGS  
H= 09 07 50.9  
LAT = 16.3 S  
LONG= 167.9 E  
DEPTH= 185 KM  
MAGNITUDE= 5.3  
NEW HEBRIDES ISLANDS

GRF	E Z BE	PKP	09 26 07.-				15750 141.7	37.8 335.5
BNS	+I Z FS	PP	09 30 22.3	2.4	2.25	3	15800 142.1	31.0 340.2
FUR	-E Z SL	PKP	09 27 05.0	1.5	1.11	8	15880 142.8	39.1 333.9
	-E Z SL	APKP	09 27 57.0	1.5	1.51	9		
	-E Z SL	XPKP	09 28 14.0	1.5	1.18	2		
	+E Z SL	PP	09 30 24.0	1.9	2.30	3		
	-I Z SL	SKP	09 30 43.0	1.8	2.05	9		
KKL	+E Z ST	PKP	09 27 03.-	0.8	2.10		15930 143.3	34.2 337.3
BUH	+I Z GT	PKP	09 27 03.5	1.0	1.70		15970 143.6	34.2 337.2

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NOV 1969				NOV 1969				
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.

NOV 10 USCGS  
H= 00 30 20.7  
LAT = 15.3 S  
LONG= 173.3 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.7  
TONGA ISLANDS

GRF	-E Z BE	PKP	00 50 16.2	1.0	1.48	2	16180 145.5	7.7 354.8
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NOV 10 USCGS  
H= 09 12 50.0  
LAT = 15.2 S  
LONG= 172.5 W  
DEPTH= 65 KM  
MAGNITUDE= 4.6  
SAMOA ISLANDS REGION

GRF	+E Z BE	PKP	09 32 32.0	1.4	2.00	2	16170 145.5	6.3 355.8
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NOV 10  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	17 27 23.0	1.3	1.95	3		
	Z SL	MAXIMUM	17 27 36.0	1.5	1.34			

NOV 11 USCGS  
H= 15 23 59.2  
LAT = 5.7 S  
LONG= 151.4 E  
DEPTH= 73 KM  
MAGNITUDE= 5.3  
NEW BRITAIN REGION

FUR	-I Z SL	PKP	15 42 54.0	1.0	2.28	3	13980 125.7	51.9 328.1
	+E Z SL	APKP	15 43 11.0	2.0	1.81	9		

STU	E Z BE	PKP	15 42 55.1	1.0	1.99	5	14060 126.4	49.3 329.7
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NOV 11  
NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	16 39 09.0	1.1	2.11	8		
	Z SL	MAXIMUM	16 39 24.0	1.5	1.40			

582

NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 12 USCGS  
H= 12 29 42.5  
LAT = 42.4 N  
LONG= 144.9 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.2  
HOKKAIDO, JAPAN REGION

GRF	+E Z BE	P	12 41 49.3	0.9	1.38	2	8860 79.7	32.0 331.5
FUR	-I Z SL	P	12 41 56.0	1.5	1.26	2	9000 81.0	32.8 330.6
	-I Z SL	APCP	12 42 07.0	1.8	1.93	4		
	-E Z SL	XPCP	12 42 17.0	2.0	1.91	3		

NOV 12  
NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	15 45 03.0	1.5	1.23	3		
	Z SL	MAXIMUM	15 45 20.0	1.5	1.40			

NOV 12 USCGS  
H= 19 09 02.0  
LAT = 53.0 N  
LONG= 169.3 W  
DEPTH= 53 KM  
MAGNITUDE= 5.4  
FOX ISLANDS, ALEUTIAN ISLANDS

BNS	I Z FS	P	19 20 47.0	1.2	2.08	4	8490 76.4	357.2 3.0
	E Z FS	LR	19 47 00.-	30.0				
	FS	MAXIMUM	20 01 00.-	20.0				
GRF	+E Z BE	P	19 20 55.4	1.0	1.79		8640 77.7	359.7 0.3
KRL	+E Z ST	P	19 21 07.9	1.5	2.50		8710 78.4	358.0 2.2
BUH	-I Z GT	P	19 21 00.2	1.2	1.30		8750 78.7	357.8 2.4
FUR	+I Z SL	P	19 21 03.0	1.5	1.57	4	8810 79.2	359.7 0.3
	-I Z SL	XP	19 21 17.0	1.5	1.52	2		
	-I Z SL	-	19 23 01.0	1.5	1.40	3		

NOV 13  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04 43 53.0	2.0	1.87	2		
	-E Z SL	-	04 44 42.0	1.5	1.23	2		

583

NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 13 USCGS  
H= 07 51 29.5  
LAT = 27.8 S  
LONG= 71.6 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 5.8  
NEAR COAST OF NORTHERN CHILE

FUR	+E Z SL	PKP	08 09 51.0	2.0	1.87	9	11760 105.7	246.0 43.7
	-I Z SL	XPKP	08 10 05.0	1.5	1.18	2		
	-E Z SL	PP	08 10 12.0	2.4	2.13	2		

NOV 13  
NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	13 05 07.0	1.8	1.79	2		
	Z SL	MAXIMUM	13 05 26.0	1.5	1.62			

NOV 13  
NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	16 09 44.0	1.0	2.18	8		
	Z SL	MAXIMUM	16 09 56.0	1.5	1.23			

NOV 14 USCGS  
H= 06 48 04.4  
LAT = 40.7 N  
LONG= 15.7 E  
DEPTH= 15 KM  
MAGNITUDE= 4.7  
SOUTHERN ITALY

FUR	-E Z SL	Xpp	06 50 24.0	1.5	0.90	9	900 8.1	155.5 338.6
	-E Z SL	SS	06 51 51.0	1.5	1.18	2		
	+E Z SL	-	06 52 08.0	1.5	1.08	7		
	Z SL	MAXIMUM	06 53 45.0	1.9	2.01			
GRF	E Z BE	P	06 50 35.-				1060 9.5	159.0 342.2

NOV 14 USCGS  
H= 07 37 45.7  
LAT = 19.7 S  
LONG= 175.9 W  
DEPTH= 209 KM  
MAGNITUDE= 5.5  
TONGA ISLANDS

HAM	E Z SX	PKP	07 57 02.-			3	16230 146.0	9.8 353.8
	E Z SX	-	07 57 13.-			6		
BNS	-I Z X	PKP	07 57 09.4	1.7	2.70		16530 148.7	5.5 356.3

584

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	E Z X	-	07 58 01.-					
	E X	-	08 01 31.5					
TNS	I	PKP	07 57 12.0				16600 149.3	8.0 354.6
GRF	-E Z BE	PKP	07 57 11.9	0.8	1.72	6	16630 149.5	13.2 350.9
BUH	E Z GT	PKP	07 57 08.-				16780 150.9	7.9 354.4
	I Z GT	-	07 57 14.7	1.5	1.40			
FUR	-E Z SL	PKP	07 57 09.0	2.0	2.09	3	16790 151.0	14.0 350.1
	-I Z SL	-	07 57 15.0	1.8	2.49	9		
	+I Z SL	PKP2	07 57 23.0	1.8	2.45	6		
	+E Z SL	APKP	07 57 59.0	1.8	1.93	3		
	-I Z SL	APKP	07 58 12.0	1.7	2.19	7		
	-I Z SL	XPKP	07 58 18.0	1.8	2.45	2		
	-I Z SL	XPKP	07 58 34.0	1.7	2.05	2		
	+E Z SL	SKP	08 00 18.0	1.9	1.84	9		
	+I Z SL	PP	08 00 53.0	2.0	2.09	3		
	+E Z SL	APP	08 01 42.0	1.7	1.60	2		

NOV 14 USCGS

H= 15 37 15.6  
LAT = 14.6 S  
LONG= 173.5 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.6  
SAMOA ISLANDS REGION

FUR	-E Z SL	PKP	15 56 55.0	2.0	2.09	4	16270 146.3	8.4 354.2
	+E Z SL	APKP	15 57 05.0	1.7	1.65	5		
	-E Z SL	-	15 57 19.0	1.7	1.65	3		

NOV 14  
NO DETERMINATION OF EPICENTER

BNS	+E Z X	PG	15 46 15.5					
	E N X	SG	15 46 21.3	0.7	2.25			
	+I X	SG	15 46 21.5	0.6	2.11			

NOV 15 USCGS

H= 02 54 37.4  
LAT = 37.8 N  
LONG= 29.8 E  
DEPTH= 6 KM  
MAGNITUDE= 4.6  
TURKEY

NOV 1969

585

NOV 1969

NOV 1969

NOV 15 BCIS  
H= 02 54 41.0  
LAT = 37.8 N  
LONG= 29.7 E  
NO DEPTH COMPUTED  
NO MAGNITUDE COMPUTED  
TURKEY

BUH	E Z GT	P	02 59 03.-	1.0	0.80		2120 19.1	116.8 311.7
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NOV 16  
NO DETERMINATION OF EPICENTER

BNS	E Z X	PG	05 41 59.0	1.5	2.20			
	E E X	-	05 41 59.5					
	E X	-	05 42 10.5	1.3	2.87			

NOV 17 USCGS

H= 00 43 19.6  
LAT = 28.9 S  
LONG= 179.1 W  
DEPTH= 344 KM  
MAGNITUDE= 4.9  
KERMADEC ISLANDS REGION

GRF	+E Z BE	PKP	01 03 11.5	1.0	1.60	3	17550 157.8	24.6 342.1
STU	+E Z BE	PKP	01 03 16.3	1.0	1.94	3	17700 159.2	20.8 344.4
FUR	+I Z SL	PKP2	01 03 18.0	1.5	1.40	8	17700 159.2	26.4 340.2

NOV 17 USCGS

H= 13 25 31.1  
LAT = 17.4 S  
LONG= 173.6 W  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.8  
TONGA ISLANDS

BNS	E Z FS	PKP	13 45 11.-				16290 146.5	1.3 359.1
	E Z FS	-	13 45 27.-					

NOV 17  
NO DETERMINATION OF EPICENTER

BNS	E N X	SG	15 38 53.-	1.2	2.10			
	E E X	SG	15 38 54.-	1.2	2.12			

NOV 17  
NO DETERMINATION OF EPICENTER



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NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	+I Z SL	-	17 12 14.0	1.0	2.28	9		
	Z SL	MAXIMUM	17 12 30.0	1.5	1.40			

NOV 18 BCIS  
 H= 07 32 56.0  
 LAT = 45.1 N  
 LONG= 18.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

FUR	+E Z SL	PN	04 34 36.0	1.5	1.18	2	620 5.6	121.0 305.9
	-E Z SL	PB	04 34 47.0	3.0	2.10	1		
	+E Z SL	PG	04 35 17.0	1.5	0.90	2		
	+E Z SL	SN	04 35 49.0	1.8	1.60	2		
	-E Z SL	SB	04 36 08.0	1.5	1.08	2		
	+E Z SL	SG	04 36 27.0	1.5	1.23	5		

NOV 18  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 32 13.0	3.0	2.22	2		
	+E Z SL	-	14 32 28.0	1.5	0.90	9		

NOV 18  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	17 22 51.0	1.0	2.18	3		
	Z SL	MAXIMUM	17 23 04.0	1.5	1.40			

NOV 18 USCGS  
 H= 20 45 41.6  
 LAT = 22.3 S  
 LONG= 175.3 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 TONGA ISLANDS REGION

BUH	+E Z GT	PKP	21 05 51.-	0.8	0.70		17070 153.5	7.4 354.7
FUR	-E Z SL	PKP	21 05 55.0	1.5	0.90	5	17090 153.7	13.9 350.0
	+E Z SL	APKP	21 06 04.0	1.6	1.26	5		
	-E Z SL	PKP2	21 06 14.0	1.5	1.18	4		

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NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 19 USCGS  
 H= 08 45 03.3  
 LAT = 41.8 N  
 LONG= 133.7 E  
 DEPTH=423 KM  
 MAGNITUDE= 5.0  
 SEA OF JAPAN

GRF	-E Z BE	P	08 56 06.7	1.1	2.05	6	8430 75.8	40.5 325.6
	-E Z BE	Ap	08 57 46.2	1.0	1.61	2		
	E Z BE	PP	08 59 05.5					

FUR	-I Z SL	P	08 56 12.0	1.5	1.51	9	8560 77.0	40.3 324.5
	+E Z SL	PP	08 59 16.0	2.0	1.91	2		
	+E Z SL	PPP	09 01 07.0	1.5	1.11	4		

STU	E Z BE	P	08 56 14.7	1.2	1.94	4	8610 77.4	39.1 326.0
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KRL	+I Z ST	P	08 56 16.5	1.4	2.30		8620 77.5	38.7 326.6
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BUH	+E Z GT	P	08 56 17.-	0.8	0.80		8660 77.9	38.5 326.5
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NOV 19  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	15 26 53.0	1.2	1.91	3		
	Z SL	MAXIMUM	15 27 10.0	1.5	1.23			

NOV 20  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	11 07 20.0	1.5	1.11	2		
	Z SL	MAXIMUM	11 07 36.0	1.5	1.23			

NOV 20  
 NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	15 09 19.0	3.0	2.22	2		
	-E Z SL	-	15 09 27.0	1.5	1.11	2		
	+E Z SL	-	15 09 34.0	2.0	1.76	1		

NOV 20  
 NO DETERMINATION OF EPICENTER

FUR	-I Z SL	-	15 38 40.0	1.0	2.06	6		
	Z SL	MAXIMUM	15 38 53.0	1.5	1.23			

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NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 20 USCGS  
 H= 21 00 29.0  
 LAT = 43.3 N  
 LONG= 147.9 E  
 DEPTH= 53 KM  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

GRF	E Z BE	P	21 12 34.3				8890 79.9 30.6 333.1	
BNS	E Z FS	P	21 12 35.5			2	8910 80.1 28.0 336.0	
	E Z FS	-	21 12 49.5					
FUR	+E Z SL	P	21 12 42.0	1.4	1.56	8	9030 81.2 30.5 332.3	
	+E Z SL	PCP	21 12 45.0	1.8	1.53	6		
	+E Z SL	XP	21 12 54.0	1.5	1.11	4		
BUH	-E Z GT	P	21 12 43.-	1.2	0.90		9090 81.8 28.5 334.3	

NOV 20 USCGS  
 H= 23 46 11.6  
 LAT = 56.6 N  
 LONG= 153.2 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KODIAK ISLAND REGION

BNS	+E Z FS	P	23 57 34.5	2.5	2.28	3	7960 71.6 348.7 13.0	
	E Z FS	-	23 57 47.5					
	E Z FS	-	23 59 37.-					
GRF	-E Z HE	P	23 57 42.2				8150 73.3 351.7 10.5	
KRL	E Z ST	P	23 57 47.5	3.0	2.60		8190 73.6 349.5 12.5	
BUH	E Z GT	P	23 57 46.-	2.8	1.90		8220 73.9 349.4 12.7	
FUR	-I Z SL	P	23 57 54.0	2.0	1.95	9	8320 74.8 351.2 10.7	
	-I Z SL	XP	23 58 06.0	1.5	1.40	3		
	-I Z SL	APCP	23 58 13.0	1.5	1.54	1		
	+I Z SL	XPCP	23 58 23.0	1.5	1.48	1		
	-I Z SL	PP	00 00 44.0	1.5	1.23	2		
	+I Z SL	APP	00 00 52.0	1.5	1.18	2		
	+E Z SL	PPP	00 02 23.0	1.5	0.85	4		
	N SL	MAXIMUM	00 27 30.0	27.0	3.33			

NOV 21 USCGS  
 H= 00 14 12.5  
 LAT = 56.3 N  
 LONG= 153.4 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KODIAK ISLAND REGION

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NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	P	00 25 44.3				8180 73.6 351.7 10.3	
BUH	+I Z GT	P	00 25 44.7	2.0	1.70		8260 74.3 349.5 12.5	

NOV 21 USCGS  
 H= 02 05 35.3  
 LAT = 2.1 N  
 LONG= 94.6 E  
 DEPTH= 20 KM (GEOPHYSICIST)  
 MAGNITUDE= 6.4  
 OFF W. COAST OF NORTHERN SUMATRA

HUF	/ WI	MAXIMUM	02 55 00.0	20.0	3.82		9320 83.8 94.3 320.2	
FUR	+I Z SL	P	02 18 04.0	2.0	2.81	9	9340 84.0 93.6 318.0	
	+I Z SL	PCP	02 18 09.0	2.0	2.84	1		
	-I Z SL	APCP	02 18 14.0	1.5	2.35	1		
	+I Z SL	PPP	02 23 22.0	2.0	2.89	2		
	+I Z SL	-	02 24 45.0	1.9	2.68	1		
	+I Z SL	S	02 28 33.0	1.8	2.05	9		
	-I Z SL	XS	02 28 52.0	2.5	2.86	9		
	-I Z SL	SP	02 29 30.0	2.0	2.51	4		
	+I Z SL	-	02 29 50.0	2.0	2.58	1		
	+E Z SL	PKKP	02 36 23.0	2.8	2.57	9		
	Z SL	MAXIMUM	03 05 40.0	17.0	4.97			
GRF	-E Z BE	P	02 18 06.8				9360 84.2 93.7 319.6	
	E N BE	S	02 28 32.5					
	E Z BE	-	02 36 30.-					
HAM	E Z WZ	P	02 18 14.-			3	9470 85.2 93.0 323.3	
	E Z WZ	XP	02 18 20.-			9		
	-I E WI	S	02 28 40.-					
STU	E Z BE	P	02 18 11.7	1.8	3.57	2	9500 85.5 92.7 318.6	
	-I N BE	S	02 28 39.4	24.0	5.34	9		
KRL	+E Z ST	P	02 18 16.-				9560 86.0 91.5 318.8	
	+I Z ST	-	02 18 18.5	1.6	2.90			
TNS	I	P	02 18 16.0				9560 86.0 91.6 320.0	
BUH	+E Z GT	P	02 18 15.-				9570 86.1 91.3 318.5	
	-E Z GT	-	02 18 18.0	3.5	3.10			
HLG	I Z X	P	02 18 00.-	2.0	3.16	2	9610 86.4 91.4 324.0	
BOC	+E Z H4	P	02 18 21.7	2.0	3.40	3	9650 86.8 90.7 321.3	
	+E E H4	S	02 28 42.5	8.0	4.34	3		
BNS	-E Z FS	P	02 18 19.3	2.0	1.85	2	9650 86.8 90.7 320.7	
	+I Z FS	-	02 18 22.0	2.0	2.63			
	-I FS	-	02 18 26.7	2.0	3.25			
	E Z SL	PP	02 21 18.-					
	E E SL	S	02 28 37.5					
	E SL	SP	02 29 12.-					

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NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	E Z SL	LR	02 47 00.-	58.0				
	Z SL	MAXIMUM	02 52 00.-	35.0				

NOV 21 USCGS  
H= 02 29 27.0  
LAT = 1.7 N  
LONG= 94.5 E  
DEPTH= 33 KM (NORMAL)  
NO MAGNITUDE COMPUTED  
OFF W. COAST OF NORTHERN SUMATRA

GRF	+E Z BE	P	02 41 58.8	2.2	2.72	6	9380 84.4	94.0 319.6
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NOV 21 USCGS  
H= 02 32 49.2  
LAT = 56.5 N  
LONG= 153.1 W  
DEPTH= 37 KM  
MAGNITUDE= 5.1  
KODIAK ISLAND REGION

GRF	E Z BE	P	02 44 17.6				8160 73.4	351.0 10.6
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NOV 21 USCGS  
H= 08 12 31.6  
LAT = 43.7 N  
LONG= 147.9 E  
DEPTH= 63 KM  
MAGNITUDE= 4.7  
KURIL ISLANDS

BNS	E Z FS	P	08 24 47.-	2.0	1.78	2	8860 79.7	27.8 336.0
	E Z FS	LR	08 58 00.-					
	FS	MAXIMUM	09 05 00.-	17.0				

FUR	-E Z SL	PCP	08 24 43.0	2.0	1.69	3	8990 80.8	30.3 332.2
	-E Z SL	XP	08 24 56.0	2.0	1.91	5		
	+E Z SL	-	08 25 20.0	2.0	1.76	2		

BUH	E Z GT	P	08 24 43.-	1.5	1.10		9050 81.4	28.4 334.3
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NOV 21 USCGS  
H= 08 57 15.2  
LAT = 43.4 N  
LONG= 147.9 E  
DEPTH= 40 KM (GEOPHYSICIST)  
MAGNITUDE= 4.7  
KURIL ISLANDS

GRF	E Z BE	P	09 09 25.0				8880 79.9	30.6 333.1
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NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	+E Z SL	P	09 09 30.0	1.8	1.60	4	9030 81.2	30.5 332.2
	+E Z SL	APCP	09 09 42.0	2.0	1.91	2		
	+E Z SL	XPCP	09 09 48.0	1.5	1.00	1		

NOV 21 USCGS  
H= 11 20 39.3  
LAT = 43.6 N  
LONG= 147.5 E  
DEPTH= 33 KM (NORMAL)  
MAGNITUDE= 4.5  
KURIL ISLANDS

GRF	E Z BE	P	11 32 47.5				8850 79.6	30.7 332.9
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NOV 21  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	11 26 23.0	2.0	1.76	7		
	Z SL	MAXIMUM	11 26 46.0	1.5	1.40			

GRF	E Z BE	PG	11 26 23.6					
	E N BE	SG	11 26 56.2					

NOV 21  
NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	11 54 44.3			2		
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NOV 21  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	13 54 58.0	2.0	1.91	2		
	-E Z SL	-	13 55 16.0	1.5	1.08	4		

NOV 21  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 59 57.0	1.9	1.68	1		
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NOV 22 USCGS  
H= 05 00 39.6  
LAT = 28.2 S  
LONG= 177.2 W  
DEPTH= 65 KM (GEOPHYSICIST)  
MAGNITUDE= 5.2  
KERMADEC ISLANDS REGION

GRF	-E Z BE	PKP	05 21 01.2				17530 157.6	19.7 345.6
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NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 22 BCIS  
 H= 07 49 15.0  
 LAT = 44.3 N  
 LONG= 6.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 FRANCE

BCIS = BASSES-ALPES FELT. (V) AT BARCELONNETTE, (IV) AT FAUCON-SUR-URAYE  
 AND (III) AT FOURS.

BUH	-I Z GT	P	07 50 21.9	0.2	0.80		500 4.5 193.2	12.2
FUR	+E Z SL	PG	07 52 06.0	2.0	1.81	2	550 5.0 220.4	37.2
	+E Z SL	SG	07 53 05.0	1.9	1.79	2		
GRF	E Z BE	PN	07 51 07.3				690 6.2 210.9	27.7

NOV 22 USCGS  
 H= 19 27 45.9  
 LAT = 22.3 S  
 LONG= 174.9 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 TONGA ISLANDS REGION

BNS	E Z FS	PKP	19 47 38.5	2.0	2.08	3	16830 151.4	4.0 357.3
	E FS	-	19 48 09.-					
GRF	E Z BE	PKP	19 47 39.-				16930 152.3	12.2 351.5
FUR	+I Z SL	PKP	19 47 45.0	1.5	1.30	9	17100 153.7	13.0 350.6
	-I Z SL	APKP	19 47 56.0	1.0	1.23	9		
	-E Z SL	PKP2	19 48 08.0	1.7	1.56	2		

NOV 22 USCGS  
 H= 20 34 41.2  
 LAT = 37.8 N  
 LONG= 23.4 E  
 DEPTH= 61 KM  
 MAGNITUDE= 4.4  
 SOUTHERN GREECE

BUH	+E Z GT	P	20 38 17.-	0.7	0.60		1720 15.4	128.9 319.4
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NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 22 USCGS  
 H= 23 09 37.2  
 LAT = 57.8 N  
 LONG= 163.5 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 6.3  
 NEAR EAST COAST OF KAMCHATKA

USCGS= TSUNAMI HEIGHTS (CREST TO THROUGH IN METERS) SHEMYA 0.52, ATTU  
 0.40, ADAK 0.27.

HLG	N X	P	23 20 28.6	2.0	3.23	6	7410 66.7	13.9 344.7
	-I Z X	P	23 20 28.2	1.4	3.03	8		
	I N X	-	23 24 44.4	1.0	2.55	2		
	E X	S	23 29 16.-	7.0	4.01	2		
	Z X	L	23 48 57.4	6.0	3.69	1		
HAM	+I Z SX	P	23 20 30.3			8	7460 67.1	15.0 343.2
BOC	+I Z B4	P	23 20 43.4	1.5	2.98	3	7720 69.4	13.3 344.4
	+E B4	S	23 29 53.9	7.5	4.29	3		
HOF	/ WI	MAXIMUM	23 49 00.0	25.5	3.82		7760 69.8	15.7 341.1
BNS	+I Z FS	P	23 20 45.8	4.0	3.77	9	7770 69.9	13.2 344.3
	+I E FS	S	23 30 05.5	6.0	3.81			
	E FS	LQ	23 42 43.-	60.0				
TNS	I	P	23 20 50.2				7830 70.4	13.9 343.3
GRF	+E Z BE	P	23 20 50.6	1.2	2.58	9	7840 70.5	15.3 341.3
	E Z BE	-	23 39 35.4					
KRL	+E Z ST	P	23 20 57.5	3.6	3.50		7970 71.6	13.7 343.0
FUR	+I Z SL	P	23 20 59.0	2.0	2.99	9	8000 72.0	15.2 340.9
	+E Z SL	S	23 30 37.0	2.0	2.21	4		
	Z SL	MAXIMUM	00 00 30.0	15.0	5.12			
BUH	-E Z GT	P	23 20 58.-	4.0	3.10		8000 72.0	13.6 343.1

NOV 23 BCIS  
 H= 11 40 45.0  
 LAT = 38.4 N  
 LONG= 55.3 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 IRAN-USSR BORDER REGION

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NOV 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

NOV 23 USCGS  
 H= 11 40 45.1  
 LAT = 38.3 N  
 LONG= 55.5 E  
 DEPTH= 38 KM  
 MAGNITUDE= 4.9  
 IRAN-USSR BORDER REGION

FUR -I Z SL P 11 47 23.0 1.5 1.23 2 3680 33.1 90.6 301.6  
 +E Z SL AP 11 47 28.0 2.0 1.81 2  
 +E Z SL PP 11 48 36.0 3.0 2.22 4  
 -E Z SL XPP 11 48 48.0 1.5 1.08 2

NOV 23  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 23 53 19.0 1.7 1.43 3

NOV 24  
 NO DETERMINATION OF EPICENTER

FUR -I Z SL P 09 10 19.0 2.2 2.08 9  
 -I Z SL - 09 11 20.0 1.3 2.26 2  
 Z SL MAXIMUM 09 11 56.0 1.5 1.62

GRF E Z BE - 09 10 47.5  
 E N BE - 09 11 58.-

NOV 24 BCIS  
 H= 10 51 52.0  
 LAT = 43.4 N  
 LONG= 0.6 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 FRANCE

BCIS = DEPRESSION OF AQUITAINE FIELD OF PETROL OF LACQ,  
 PROBABLY ARTIFICIAL. FELT (V) IN THE AREA OF LACQ, RADIUS OF  
 PERCEPTIBILITY 15 KM.

BNS E E X - 10 56 31.3 2 1030 9.2 217.9 32.2  
 E E X SG 10 56 56.- 1.5 2.26  
 E X SG 10 56 59.- 1.5 2.34

FUR -E Z SL XP 10 56 49.0 2.0 1.87 9  
 -I Z SL - 10 57 30.0 3.0 2.46 3  
 -E Z SL S 10 58 26.0 2.0 2.06 4  
 -E Z SL SS 10 58 39.0 1.5 1.40 4  
 Z SL MAXIMUM 11 00 16.0 1.5 1.40

GRF E Z BE - 10 57 17.9 1140 10.3 236.7 48.2

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NOV 1969

STATION COMP. PHASE TIME PER. LOG. S/N DISTANCE AZIMUTH  
 ABBREV. SEIS. H M S AMP. KM DEG. STAT. EPIC.

NOV 24  
 NO DETERMINATION OF EPICENTER

FUR -E Z SL - 12 56 25.0 1.8 1.79 2  
 -I Z SL - 12 57 22.0 1.5 1.40 3

NOV 24  
 NO DETERMINATION OF EPICENTER

FUR +I Z SL - 14 04 33.0 1.5 1.23 9  
 Z SL MAXIMUM 14 04 50.0 1.5 1.48

NOV 24 BCIS  
 H= 17 23 16.0  
 LAT = 37.2 E  
 LONG= 71.7 E  
 DEPTH= 90 KM  
 NO MAGNITUDE COMPUTED  
 AFGHANISTAN-USSR BORDER REGION

NOV 24 USCGS  
 H= 17 23 20.2  
 LAT = 37.2 E  
 LONG= 71.7 E  
 DEPTH= 123 KM  
 MAGNITUDE= 5.6  
 AFGHANISTAN-USSR BORDER REGION

USCGS= FELT IN TADZHIKISTAN.

GRF -I Z HE P 17 31 22.1 1.3 2.78 9 4950 44.5 82.5 306.3  
 +I Z HE AP 17 31 49.7  
 E Z HE XP 17 32 04.1  
 +E Z HE PP 17 33 03.0  
 +E Z HE PCS 17 36 44.2  
 E N HE X2S 17 41 33.-

FUR -I Z SL P 17 31 23.0 1.5 2.22 9 4970 44.7 81.0 304.1  
 -I Z SL AP 17 31 49.0 1.5 1.88 9  
 +I Z SL XP 17 32 03.0 1.8 2.40 9  
 -I Z SL PCP 17 33 01.0 1.9 2.29 6  
 -I Z SL PP 17 33 10.0 1.5 1.76 2  
 +E Z SL APP 17 33 32.0 1.7 1.88 4  
 +I Z SL XPP 17 33 45.0 1.9 2.38 9  
 +I Z SL PPP 17 33 53.0 1.5 1.72 2  
 N SL MAXIMUM 18 12 00.0 18.0 3.19

HAM -I Z SX P 17 31 24.5 8 4990 44.9 85.3 311.7

STU -E Z HE P 17 31 32.7 1.3 2.61 4 5110 45.9 80.2 305.3

HEI -E Z ST P 17 31 34.3 1.2 2.55 6 5130 46.1 80.5 306.2

KKL -I Z ST P 17 31 37.5 1.4 2.50 5160 46.4 80.0 305.7

NOV 1969				596				NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.			
BUH	+I Z GT	P	17 31 37.6	2.4	2.60		5180 46.6	79.5	305.3		
BNS	-I Z X	P	17 31 39.6	1.5	2.69	9	5210 46.9	81.0	308.5		
	+I Z X	-	17 32 07.8								
	I X	-	17 32 19.5								
	E Z SL	-	17 42 04.-								
	E Z SL	LR	17 45 15.-								
	SL	MAXIMUM	17 46 30.	50.0							
NOV 24 BCIS											
H= 21 14 08.0											
LAT = 60.5 N											
LONG= 58.7 W											
NO DEPTH COMPUTED											
NO MAGNITUDE COMPUTED											
DAVIS STRAIT											
NOV 24 USCGS											
H= 21 14 13.7											
LAT = 60.6 N											
LONG= 58.8 W											
DEPTH= 33 KM (NORMAL)											
MAGNITUDE= 5.0											
DAVIS STRAIT											
BUH	+E Z GT	P	21 21 37.-	1.5	1.10		4320 38.8	313.4	76.6		
GRF	+E Z HE	P	21 21 43.9				4400 39.5	313.1	73.3		
NOV 24 USCGS											
H= 21 31 17.6											
LAT = 18.0 S											
LONG= 178.4 W											
DEPTH=593 KM											
MAGNITUDE= 5.4											
FIJI ISLANDS REGION											
HAM	-I Z SX	PKP	21 49 47.4			5	16010 144.0	13.6	351.5		
BNS	E Z X	PKP	21 49 51.5	1.5	1.70	2	16320 146.8	9.7	353.6		
	-I Z X	-	21 49 55.1	1.1	2.75						
	E X	PP	21 52 10.-								
GRF	-E Z HE	PKP	21 49 53.2	1.3	1.78	3	16400 147.4	17.2	348.4		
	-I Z HE	-	21 49 57.3	0.8	2.14	9					
KRL	E Z ST	PKP	21 49 56.-	1.2	2.30		16520 148.6	12.5	351.4		
	-I Z ST	-	21 50 01.2								
STU	-E Z HE	PKP	21 49 53.7	1.0	2.65	4	16530 148.7	14.0	350.3		
FUR	-I Z SL	PKP	21 49 55.0	1.5	1.48	9	16560 148.9	18.0	347.4		
	-I Z SL	PKP2	21 50 01.0	1.7	2.63	9					
	+I Z SL	PKP2	21 50 07.0	1.5	1.88	2					

NOV 1969				597				NOV 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.			
	-I Z SL	APKP	21 52 19.0	1.7	1.90	2					
	-E Z SL	APKP	21 52 24.0	2.0	1.99	2					
	+E Z SL	XPKP	21 53 13.0	1.7	1.65	3					
BUH	+E Z GT	PKP	21 49 55.-	3.0	1.70		16560 148.9	12.3	351.5		
	E Z GT	-	21 50 00.5								
NOV 24 USCGS											
H= 22 51 59.1											
LAT = 56.2 N											
LONG= 153.6 W											
DEPTH= 33 KM (NORMAL)											
MAGNITUDE= 5.5											
KODIAK ISLAND REGION											
HAM	E Z SX	P	23 03 03.-			2	7770 69.9	350.3	10.4		
BNS	+I Z FS	P	23 03 12.-	2.2	2.20	4	8010 72.0	348.8	12.7		
	E Z FS	S	23 12 40.-								
	FS	MAXIMUM	23 36 00.-	21.0							
TNS	I	P	23 03 19.0				8110 72.9	349.6	12.0		
	I	S	23 12 26.0								
GHF	E Z HE	P	23 03 23.0				8200 73.7	351.2	10.2		
	-I Z HE	AP	23 03 31.1								
KRL	+E Z ST	P	23 03 26.-	2.0	2.40		8240 74.1	349.6	12.2		
BUH	E Z GT	P	23 03 27.-	1.0	1.00		8270 74.4	349.6	12.4		
STU	E Z HE	P	23 03 26.2	0.9	1.80	2	8280 74.4	350.1	11.8		
FUR	+E Z SL	P	23 03 31.0	2.0	1.95	6	8370 75.2	351.3	10.4		
	-I Z SL	AP	23 03 40.0	1.8	1.93	5					
	-I Z SL	PCP	23 03 44.0	1.5	1.52	5					
	+I Z SL	APCP	23 03 50.0	1.8	1.95	5					
	+I Z SL	XPCP	23 03 56.0	1.5	1.51	9					
	+E Z SL	PP	23 06 20.0	2.0	1.87	9					
NOV 25 USCGS											
H= 01 32 54.0											
LAT = 18.0 S											
LONG= 178.4 W											
DEPTH=587 KM											
MAGNITUDE= 4.6											
FIJI ISLANDS REGION											
BNS	E Z FS	PKP	01 51 31.1	1.0	1.60	2	16330 146.8	9.7	353.6		
GHF	E Z HE	PKP	01 51 33.8				16400 147.5	17.1	348.4		
FUR	-I Z SL	PKP	01 51 37.0	1.5	1.30	9	16560 148.9	18.0	347.4		
	+I Z SL	PKP2	01 51 42.0	1.8	1.70	3					

NOV 1969			598			NOV 1969		
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
	-I Z SL	APKP	01 53 54.0	1.5	1.18	2		
BUH	E Z GT	PKP	01 51 36.-				16570 149.0	12.3 351.5
NOV 25 USCGS								
H= 04 47 41.4								
LAT = 30.5 S								
LONG= 177.9 E								
DEPTH= 30 KM								
MAGNITUDE= 5.0								
KERMADEC ISLANDS								
GRF	-E Z HE	PKP	05 08 16.0				17750 159.6	23.0 342.9
FUR	-I Z SL	PKP2	05 08 22.0	1.0	2.06	6	17900 161.0	24.9 340.9
	-I Z SL	APKP	05 08 36.0	2.0	1.91	3		
	-I Z SL	XPKP	05 08 41.0	1.8	1.76	2		
NOV 25								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	10 35 14.0	1.8	1.70	9		
	-E Z SL	-	10 35 36.0	1.5	1.23	3		
NOV 25								
NO DETERMINATION OF EPICENTER								
FUR	-E Z SL	-	14 53 51.0	1.5	1.00	2		
	Z SL	MAXIMUM	14 54 10.0	1.5	1.11			
NOV 25								
NO DETERMINATION OF EPICENTER								
FUR	-I Z SL	P	15 37 18.0	1.5	1.23	9		
	Z SL	MAXIMUM	15 37 36.0	1.5	1.23			
NOV 25 BCIS								
H= 16 45 36.0								
LAT = 44.7 N								
LONG= 17.1 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
YUGOSLAVIA								
FUR	-E Z SL	PR	16 47 16.0	1.3	1.90	8	590 5.3	128.4 312.8
	+E Z SL	SB	16 48 14.0	1.5	1.08	7		
	-E Z SL	SG	16 48 26.0	1.5	1.00	2		
NOV 25								
NO DETERMINATION OF EPICENTER								

NOV 1969			599			NOV 1969		
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	-E Z SL	-	17 10 57.0	1.5	0.90	2		
	-I Z SL	-	17 11 13.0	1.5	1.26	2		
NOV 26 USCGS								
H= 12 44 04.7								
LAT = 16.8 S								
LONG= 167.7 E								
DEPTH= 33 KM								
MAGNITUDE= 5.4								
NEW HEBRIDES ISLANDS								
GRF	E Z HE	PKP	13 03 34.-				15800 142.1	38.5 335.1
FUR	+I Z SL	XPKP	13 03 55.0	2.0	1.61	2	15930 143.2	39.8 333.4
	+I Z SL	PP	13 07 04.0	2.0	1.87	9		
	+I Z SL	APP	13 07 08.0	2.0	1.99	3		
BUH	E Z GT	PKP	13 03 38.-	2.0	1.30		16020 144.1	34.9 336.7
NOV 26								
NO DETERMINATION OF EPICENTER								
GRF	+E Z HE	-	12 55 55.0					
NOV 26								
NO DETERMINATION OF EPICENTER								
FUR	-I Z SL	-	14 07 03.0	2.1	2.23	9		
	-I Z SL	-	14 07 17.0	1.5	1.11	8		
	-I Z SL	-	14 07 20.0	1.9	1.88	2		
NOV 26 USCGS								
H= 14 27 20.4								
LAT = 16.8 S								
LONG= 167.8 E								
DEPTH= 34 KM								
MAGNITUDE= 5.3								
NEW HEBRIDES ISLANDS								
BUH	+E Z GT	PKP	14 46 53.-	6.0	2.00		16020 144.1	34.8 336.7
NOV 26								
NO DETERMINATION OF EPICENTER								
BNS	E E X	SG	15 40 17.3	0.9	2.00	2		
NOV 26								
NO DETERMINATION OF EPICENTER								
GRF	E Z HE	-	19 56 05.-					

600

NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	E N BE	-	19 56 40.-					
FUR	+E Z SL	-	19 56 47.0	1.5	1.08	4		
	Z SL	MAXIMUM	19 57 10.0	1.5	1.30			

NOV 26 FUR  
 H= 22 28 15.9  
 LAT = 47.9 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENERG AREA, BAVARIA, FELT STRONGLY AT PEISSENERG.

FUR	+I Z SL	PG	22 28 21.8	1.6	1.83	7	30 0.3	208.7 28.6
	-I Z SL	SG	22 28 34.0	1.3	2.48	3		
	Z SL	MAXIMUM	22 29 00.0	1.5	2.75			
RAV	E Z ST	PG	22 28 37.5	0.8	2.00	2	110 1.0	82.6 263.7
	E E ST	SG	22 28 44.1	0.5	3.07	1		
STU	E Z BE	PG	22 28 42.9	0.4	1.80	3	170 1.5	124.1 305.7
	-E E BE	SG	22 29 03.8	0.5	2.51	4		
GRF	-I Z HE	PN	22 28 44.6	0.4	1.51	9	200 1.8	183.3 3.2
	E Z HE	PG	22 28 51.3					
FEL	E N ST	SG	22 29 17.9	0.8	2.14	3	230 2.0	88.2 270.4
HEI	+E Z ST	PG	22 28 56.5	0.3	2.21	3	240 2.2	133.2 315.0
	E E ST	SG	22 29 25.2	0.8	2.76	1		
BNS	E Z X	-	22 30 05.-			2	440 4.0	138.9 321.9
	E N X	-	22 30 10.-					
	E X	SG	22 30 27.7	0.8	1.85			

NOV 26 USCGS  
 H= 22 37 56.0  
 LAT = 17.9 S  
 LONG= 65.4 E  
 DEPTH= 27 KM  
 MAGNITUDE= 5.0  
 MASCARENE ISLANDS REGION

GRF	E Z HE	P	22 50 14.5				9180 82.6	128.9 327.9
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NOV 27  
 NO DETERMINATION OF EPICENTER

BNS	+E Z X	P	03 07 06.5	1.5	2.18	3		
	E Z X	-	03 07 41.0					

601

NOV 1969

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 27 USCGS  
 H= 03 07 42.4  
 LAT = 19.6 S  
 LONG= 164.3 E  
 DEPTH= 135 KM  
 MAGNITUDE= 5.0  
 NEW HEBRIDES ISLANDS

GRF	E Z HE	PKP	03 27 05.4				16150 145.3	38.1 334.8
	E Z HE	APKP	03 27 40.5					
FUR	-I Z SL	PKP	03 27 10.0	1.6	1.57	9	16280 146.4	39.6 333.1
	+I Z SL	PKP2	03 27 12.0	1.5	1.62	2		
	+I Z SL	APKP	03 27 44.0	1.8	1.93	3		
	-I Z SL	XPKP	03 28 01.0	1.5	1.23	2		
STU	E Z BE	PKP	03 27 06.6	1.5	1.76	2	16320 146.8	35.9 335.7
KHL	+E Z ST	PKP	03 27 10.5	0.9	2.00		16330 146.9	34.4 336.7
BUH	-I Z GT	PKP	03 27 11.1	1.0	1.40		16370 147.2	34.4 336.6

NOV 27  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	12 46 38.0	1.7	1.60	5		
	-E Z SL	-	12 46 53.0	1.5	1.08	7		

NOV 27 USCGS  
 H= 19 55 11.3  
 LAT = 15.9 S  
 LONG= 167.8 E  
 DEPTH= 30 KM  
 MAGNITUDE= 4.8  
 NEW HEBRIDES ISLANDS

BUH	E Z GT	PKP	20 14 44.-	2.0	1.30		16030 144.2	34.4 336.7
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NOV 28 USCGS  
 H= 01 29 24.1  
 LAT = 36.7 N  
 LONG= 45.2 E  
 DEPTH= 16 KM  
 MAGNITUDE= 4.7  
 IRAN-IRAQ BORDER REGION



NOV 1969

602

NOV 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 28 BCIS  
 H= 01 29 32.0  
 LAT = 36.8 N  
 LONG= 45.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 IRAN-IRAQ BORDER REGION

USCGS= FELT IN NORTHWESTERN IRAN.

FUR	-E Z SL	P	01 35 12.0	1.5	0.90	5	3030 27.3	102.2 305.5
	+I Z SL	-	01 35 15.0	1.5	1.00	2		
	-I Z SL	-	01 35 44.0	1.5	1.11	4		
	-E Z SL	PPP	01 36 04.0	1.8	1.71	5		

NOV 28  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	12 01 39.7					
	E N BE	SG	12 02 04.-					

NOV 28 USCGS  
 H= 13 47 04.9  
 LAT = 6.9 S  
 LONG= 129.7 E  
 DEPTH= 75 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.6  
 BANDA SEA

FUR	+I Z SL	P	14 05 38.0	1.7	1.26	6	12660 113.9	72.8 319.9
	-E Z SL	PP	14 06 41.0	1.3	1.95	9		

NOV 28  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	P	14 45 02.0	1.6	1.30	2		
	Z SL	MAXIMUM	14 45 20.0	1.8	1.93			

NOV 28 USCGS  
 H= 20 20 01.3  
 LAT = 41.4 N  
 LONG= 142.4 E  
 DEPTH= 60 KM  
 MAGNITUDE= 4.6  
 HOKKAIDO, JAPAN REGION

BNS	E Z FS	P	29 32 35.5	2.5	2.30	2	8910 80.1	32.6 333.1
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603

NOV 1969

NOV 1969

STATION ABBREV.	CMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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NOV 29 USCGS  
 H= 16 11 25.9  
 LAT = 46.6 N  
 LONG= 154.1 E  
 DEPTH= 53 KM  
 MAGNITUDE= 4.7  
 KURIL ISLANDS REGION

GRF	E Z BE	P	16 23 25.5				8760 78.8	25.1 336.5
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NOV 29 USCGS  
 H= 16 41 52.5  
 LAT = 18.3 S  
 LONG= 175.0 W  
 DEPTH= 250 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.4  
 TONGA ISLANDS

GRF	E Z BE	PKP	17 01 15.2				16490 148.3	11.4 352.3
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NOV 29 USCGS  
 H= 16 43 15.7  
 LAT = 33.3 N  
 LONG= 132.3 E  
 DEPTH= 48 KM  
 MAGNITUDE= 5.1  
 SHIKOKU, JAPAN

GRF	E Z BE	P	16 55 33.3				9140 82.2	46.3 325.9
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FUR	+E Z SL	-	16 56 04.0	1.5	0.85	4	9260 83.3	46.2 324.7
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NOV 30 USCGS  
 H= 03 32 57.2  
 LAT = 49.9 N  
 LONG= 79.0 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 6.0  
 EASTERN KAZAKH SSR

NOV 30 BCIS  
 H= 03 33 03.0  
 LAT = 50.0 N  
 LONG= 79.0 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

HAM	+I Z SX	P	03 40 44.3			3	4610 41.4	65.8 302.5
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NOV 1969

604

NOV 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	E Z SX	-	03 42 26.3			3		
GRF	+I Z BE	P	03 40 55.4	0.8	1.92	9	4710 42.4	62.6 296.8
	E Z BE	-	03 41 22.-					
	E Z BE	PP	03 42 35.3					
	E Z BE	-	03 52 12.-					
FUR	I Z SL	P	03 41 01.0	1.6	2.06	4	4790 43.0	61.2 294.8
	+I Z SL	PP	03 42 46.0	1.5	1.87	3		
	-I Z SL	APP	03 43 19.0	1.9	2.04	9		
	+I Z SL	XPP	03 43 36.0	1.7	1.83	3		
	-E Z SL	PCS	03 46 35.0	1.5	1.23	9		
TNS	I	P	03 41 06.0				4860 43.7	61.9 298.7
STU	+I Z BE	P	03 41 07.5	0.7	2.55	9	4890 44.0	60.9 296.6
BNS	+I Z X	P	03 41 08.4	1.2	2.34	8	4900 44.1	62.0 300.2
	E Z X	-	03 42 42.-					
	E X	LR	04 00 16.-	10.0				
KRL	+I Z ST	P	03 41 11.1	0.6	2.50		4930 44.3	60.8 297.2
BUH	-I Z GT	P	03 41 12.3	1.4	1.90		4960 44.6	60.4 296.9

NOV 30 USCGS

H= 03 33 41.8

LAT = 17.9 S

LONG= 178.6 W

DEPTH=617 KM

MAGNITUDE= 4.5

FIJI ISLANDS REGION

FUR	-I Z SL	PKP2	03 52 24.0	1.8	1.71	2	16550 148.8	18.4 347.2
	-I Z SL	-	03 54 04.0	1.5	1.11	8		
	-I Z SL	XPKP	03 55 30.0	1.9	1.84	2		
	+E Z SL	PP	03 55 56.0	2.0	1.95	2		
	+E Z SL	APP	03 58 09.0	2.2	2.21	3		
	-E Z SL	XPP	03 59 03.0	1.8	1.79	2		

DEC 01 USCGS

H= 02 16 42.7

LAT = 18.4 S

LONG= 178.0 W

DEPTH=600 KM (GEOPHYSICIST)

MAGNITUDE= 4.9

FIJI ISLANDS REGION

BNS	I Z FS	PKP	02 35 20.9	1.0	1.30	2	16370 147.2	9.7 353.9
GRF	-E Z BE	PKP	02 35 22.9	0.8	1.57	5	16440 147.9	16.7 348.7
FUR	+I Z SL	PKP	02 35 26.0	1.4	1.83	9	16610 149.3	17.5 347.8
	+E Z SL	-	02 35 53.0	1.5	1.23	5		

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DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	+E Z SL	-	02 36 25.0	1.5	1.18	9		
BUH	+I Z GT	PKP	02 35 26.3	1.5	1.30	3	16610 149.3	11.7 351.9

DEC 01

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	09 48 18.1					
	-I N BE	SG	09 48 45.9					

DEC 01 USCGS

H= 13 04 34.1

LAT = 26.5 N

LONG= 53.5 E

DEPTH= 33 KM

MAGNITUDE= 4.7

SOUTHERN IRAN

GRF	-I Z BE	P	13 12 06.0	0.8	1.38	4	4430 39.8	109.7 317.0
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DEC 01 USCGS

H= 14 11 14.6

LAT = 49.8 S

LONG= 115.1 W

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.8

EASTER ISLAND CORDILLERA

FUR	+I Z SL	PKP	14 30 53.0	2.0	1.95	3	16170 145.4	246.8 71.6
	-I Z SL	PKP2	14 30 57.0	1.8	1.90	3		
	+I Z SL	APKP	14 31 03.0	2.0	2.03	9		

GRF	E Z BE	PKP	14 30 55.0				16230 145.9	248.8 69.1
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DEC 01 USCGS

H= 19 10 33.5

LAT = 49.7 S

LONG= 114.0 W

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.5

EASTER ISLAND CORDILLERA

FUR	+E Z SL	XPKP	19 30 28.0	1.5	0.90	3	16090 144.7	246.5 71.0
	-I Z SL	-	19 30 32.0	1.5	1.23	7		
	-I Z SL	-	19 30 37.0	1.5	1.18	3		

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DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 01 BCIS  
 H= 20 17 58.0  
 LAT = 34.7 N  
 LONG= 24.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

DEC 01 USCGS  
 H= 20 18 06.3  
 LAT = 35.0 N  
 LONG= 24.3 E  
 DEPTH= 53 KM  
 MAGNITUDE= 5.0  
 CRETE

FUR	+I Z SL	P	20 21 56.0	1.6	2.01	9	1840 16.5	139.9 328.5
	+I Z SL	PP	20 22 08.0	1.5	1.76	4		
	+I Z SL	PPP	20 22 20.0	1.5	1.76	2		
	-E Z SL	S	20 24 54.0	3.0	2.22	2		
	+E Z SL	SS	20 25 14.0	2.8	2.44	3		
	+E Z SL	SSS	20 25 30.0	1.7	1.65	9		
	+E Z SL	-	20 25 46.0	1.5	1.08	1		
GRF	E Z BE	P	20 22 09.6				1970 17.7	142.9 331.6
STU	+E Z BE	P	20 21 09.6	0.7	1.80	2	1990 17.9	136.3 326.3
BUH	E Z GT	P	20 22 15.-				2030 18.3	134.0 324.7
	-I Z GT	-	20 22 16.7	1.2	1.70			
KRL	E Z ST	P	20 22 12.-				2050 18.4	135.1 325.7
BNS	-I Z FS	P	20 22 39.5	1.2	2.08	5	2270 20.4	136.4 328.1
	E Z FS	-	20 22 49.-					
HAM	E Z SX	P	20 22 47.-				2370 21.3	146.2 336.2

DEC 01 FUR  
 H= 20 57 07.0  
 LAT = 47.9 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENBERG AREA, BAVARIA, FELT AT PEISSENBERG.

FUR	+I Z SL	PG	20 57 13.0	1.6	0.60	2	30 0.3	204.1 23.9
	-I Z SL	SG	20 57 36.0	1.0	2.23	2		
	Z SL	MAXIMUM	20 57 55.0	1.5	1.76			

607

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 01 USCGS  
 H= 22 13 53.4  
 LAT = 16.7 N  
 LONG= 60.8 W  
 DEPTH= 41 KM  
 MAGNITUDE= 5.6  
 LEEWARD ISLANDS

BNS	E X P		22 24 23.3				7040 63.3	263.7 41.0
	E Z X	-	22 24 37.-	2.0	2.34	2		
	E X S		22 32 56.-					
	E Z SL	-	22 34 11.-					
	E Z SL	LR	22 43 30.-					
	SL	MAXIMUM	22 47 00.-	20.0				
BUH	+E Z GT	P	22 24 23.3	2.0	1.40		7090 63.8	265.6 43.6
KRL	E Z ST	P	22 24 24.5				7110 64.0	265.6 43.2
	+I Z ST	-	22 24 41.6	1.8	2.70			
STU	-E Z BE	P	22 24 27.3	1.0	1.94	3	7170 64.4	266.3 43.5
HAM	E Z SX	P	22 24 34.-				7260 65.3	264.7 38.4
	E Z SX	Xp	22 24 51.-			4		
FUR	-E Z SL	P	22 24 36.0	1.5	1.11	1	7320 65.8	268.2 44.3
	+I Z SL	Xp	22 24 53.0	1.8	2.30	9		
	+I Z SL	PCP	22 25 08.0	1.5	1.36	9		
	-I Z SL	APCP	22 25 19.0	1.7	1.73	2		
	-I Z SL	PP	22 26 04.0	1.8	1.83	2		
	-I Z SL	Xpp	22 27 19.0	1.8	1.86	7		
GRF	-E Z BE	P	22 24 36.5	1.1	1.81	4	7320 65.8	267.5 42.6
	E Z BE	-	22 24 53.4					

DEC 02 USCGS  
 H= 17 57 04.3  
 LAT = 8.2 N  
 LONG= 126.3 E  
 DEPTH=102 KM  
 MAGNITUDE= 5.7  
 MINDANAO, PHILIPPINE ISLANDS

GRF	+E Z BE	P	18 10 38.5	1.2	1.61	3	11060 99.4	65.4 323.4
	E Z BE	Xp	18 11 03.7					
	E Z BE	PP	18 14 37.-					
FUR	+I Z SL	P	18 10 41.0	1.9	1.68	4	11120 100.0	65.7 322.0
	-I Z SL	AP	18 11 05.0	1.5	1.40	8		
	+I Z SL	Xp	18 11 14.0	1.3	2.00	1		
BNS	E Z FS	P	18 10 44.5				11250 101.2	61.9 325.7
	E Z FS	LR	18 44 10.-	55.0				
	FS	MAXIMUM	18 59 00.-	20.0				

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DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 03 USCGS  
 H= 02 31 47.5  
 LAT = 24.7 N  
 LONG= 65.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.9  
 NEAR COAST OF WEST PAKISTAN

GRF	E Z BE	P	02 40 32.5				5400 48.6 100.4 315.4	
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DEC 03 USCGS  
 H= 12 34 52.3  
 LAT = 54.7 N  
 LONG= 161.4 E  
 DEPTH= 35 KM  
 MAGNITUDE= 4.9  
 NEAR EAST COAST OF KAMCHATKA

GRF	+I Z BE	P	12 46 21.2				8120 73.1 17.6 340.3	
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DEC 03  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	SG	13 58 40.0	1.6	1.20	2		
	Z SL	MAXIMUM	13 58 54.0	1.7	1.83			

DEC 04 USCGS  
 H= 00 34 58.6  
 LAT = 12.4 N  
 LONG= 93.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.3  
 ANDAMAN ISLANDS REGION

GRF	-E Z BE	P	00 46 43.1				8430 75.8 87.5 318.4	
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DEC 04 USCGS  
 H= 08 50 21.6  
 LAT = 40.7 N  
 LONG= 144.7 E  
 DEPTH= 20 KM  
 MAGNITUDE= 5.7  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+I Z BE	P	09 02 37.4			3	9020 81.1 34.0 331.5	
	I Z BE	-	09 02 53.6					

BNS	+I Z FS	P	09 02 40.2	1.6	2.15	4	9050 81.4 31.3 334.4	
	E Z FS	LR	09 30 00.-	50.0				
	FS	MAXIMUM	09 37 00.-	28.0				

DEC 1969

609

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR	-I Z SL	P	09 02 43.0	1.5	1.68	9	9160 82.4 33.9 330.6	
	-I Z SL	PCP	09 02 48.0	1.5	1.52	1		
	-I Z SL	XP	09 02 59.0	1.3	2.30	3		
	-I Z SL	-	09 04 01.0	1.5	1.62	2		
	-I Z SL	PP	09 05 51.0	2.0	1.91	2		
	-I Z SL	APP	09 06 02.0	1.5	1.40	1		
	-I Z SL	PPP	09 07 42.0	1.7	1.73	1		

STU	E Z BE	P	09 02 44.0	1.0	2.25	3	9190 82.6 32.5 332.1	
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BUH	E Z GT	P	09 02 47.-	1.0	1.10		9230 83.0 31.9 332.6	
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DEC 04  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	PG	23 17 40.0	1.7	1.43	1		
	Z SL	MAXIMUM	23 18 32.0	1.5	1.92			

DEC 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	01 40 19.5					
	E N BE	SG	01 40 44.2					

FUR	-I Z SL	P	01 42 10.0	1.7	1.69	2		
	+I Z SL	-	01 42 26.0	1.5	1.40	2		

DEC 05  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	11 09 51.0	1.7	1.56	8		
	Z SL	MAXIMUM	11 10 38.0	1.5	1.35			

DEC 05 USCGS  
 H= 11 38 40.3  
 LAT = 14.5 N  
 LONG= 53.3 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 ARABIAN SEA

GRF	E Z BE	P	11 47 24.-				5450 49.0 120.7 324.8	
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DEC 05  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	11 53 34.5			2		
	E N BE	SG	11 54 02.-					

610

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 05 USCGS  
 H= 17 00 00.0  
 LAT = 37.2 N  
 LONG= 116.2 W  
 DEPTH= 0 KM  
 MAGNITUDE= 5.0  
 SOUTHERN NEVADA

USCGS= 37 DEG 10 MIN 47.9 SEC N, 116 DEG 12 MIN 39.1 SEC W  
 NEVADA TEST SITE #DIESEL TRAIN# (AFC).  
 MAG. 5.1 (PAS).

FUR	+I Z SL	P	17 12 29.0	1.5	1.11	8	9230 83.0	320.3 32.4
	+I Z SL	-	17 12 36.0	1.5	1.23	3		

DEC 06 USCGS  
 H= 02 54 39.7  
 LAT = 15.3 S  
 LONG= 173.7 W  
 DEPTH=206 KM  
 MAGNITUDE= 4.9  
 TONGA ISLANDS

GRF	+E Z BE	PKP	03 13 57.9	1.0	1.45	3	16180 145.5	8.4 354.3
FUR	-E Z SL	PKP	03 14 02.0	1.5	1.08	7	16340 147.0	8.9 353.8
	-I Z SL	PKP2	03 14 08.0	1.5	1.23	3		
	-I Z SL	APKP	03 14 52.0	1.5	1.26	6		

DEC 06 USCGS  
 H= 07 02 57.4  
 LAT = 43.8 N  
 LONG= 54.8 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.8  
 WESTERN KAZAKH SSR

DEC 06 BCIS  
 H= 07 03 00.0  
 LAT = 43.8 N  
 LONG= 54.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 WESTERN KAZAKH SSR

BCIS = UNUSUAL EPICENTER, PROBABLY ARTIFICIAL.

GRF	+I Z BE	P	07 09 11.0	1.0	2.48	9	3350 30.1	84.3 296.7
FUR	+I Z SL	P	07 09 11.0	1.2	2.44	9	3360 30.2	81.8 293.7
	-I Z SL	-	07 09 49.0	1.3	2.11	3		
	+I Z SL	PP	07 10 12.0	1.3	2.15	7		
	-I Z SL	PPP	07 10 26.0	1.6	1.30	9		

611

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	-	07 10 34.0	1.5	1.63	9		
	+I Z SL	PCP	07 12 15.0	1.8	2.01	2		
	-I Z SL	S	07 14 12.0	1.5	1.23	1		

STU	+E Z BE	P	07 09 22.4	1.0	2.41	3	3500 31.5	81.6 295.3
KRL	+E Z ST	P	07 09 27.-	1.0	2.20		3560 32.0	81.5 295.9
BUH	+E Z GT	P	07 09 27.5				3580 32.2	80.8 295.3
	+I Z GT	-	07 09 28.6	2.8	2.70			
BNS	I Z FS	P	07 09 32.2	1.2	2.08	4	3620 32.5	83.8 299.7
	E Z FS	-	07 10 14.0					

DEC 06  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	10 35 14.7					
	-I Z BE	PG	10 35 17.4	0.5	1.21			
	E N BE	SG	10 35 38.-					

DEC 06  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	PN	12 49 11.1					
	E Z BE	PG	12 49 17.5					
	E N BE	SG	12 49 36.2					

DEC 07 USCGS  
 H= 03 55 31.1  
 LAT = 18.1 S  
 LONG= 168.2 E  
 DEPTH= 49 KM  
 MAGNITUDE= 5.2  
 NEW HEBRIDES ISLANDS

GRF	-I Z BE	PKP	04 14 59.7			5	15950 143.4	38.7 334.8
BNS	I Z FS	PKP	04 15 01.5	1.3	1.85	3	16000 143.9	31.7 339.6
	E Z FS	-	04 16 10.-					
TNS	I	PKP	04 15 02.0				16020 144.1	34.2 337.7
FUR	+I Z SL	PKP	04 15 02.0	1.5	1.88	9	16080 144.6	40.1 333.1
	-I Z SL	XPKP	04 15 17.0	1.5	1.70	2		
	+I Z SL	-	04 15 24.0	1.5	1.62	3		
STU	+E Z BE	PKP	04 15 04.0	1.0	2.71	4	16120 145.0	36.4 335.6
KRL	+E Z ST	PKP	04 15 05.-	1.2	2.10		16130 145.1	35.1 336.6
BUH	+E Z GT	PKP	04 15 05.-				16170 145.4	35.1 336.4
	-I Z GT	-	04 15 05.6	2.0	2.10			

612

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 07 USCGS  
 H= 07 51 21.0  
 LAT = 18.2 S  
 LONG= 168.1 E  
 DEPTH= 40 KM  
 MAGNITUDE= 4.6  
 NEW HEBRIDES ISLANDS

FUR	+I Z SL	PKP	08 10 54.0	1.5	1.11	8	16090 144.7	40.3 332.9
	+I Z SL	APKP	08 11 05.0	1.3	2.00	9		
STU	+E Z BE	PKP	08 10 54.8	1.0	1.96	6	16130 145.0	36.6 335.5
BUH	+E Z GT	PKP	08 10 56.-	2.0	1.50		16180 145.5	35.2 336.3

DEC 08  
 NO DETERMINATION OF EPICENTER

GRF	+I Z BE	P	04 46 48.5	0.9	1.68	8		
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DEC 08 USCGS  
 H= 05 18 34.8  
 LAT = 57.2 N  
 LONG= 162.3 E  
 DEPTH= 54 KM  
 MAGNITUDE= 4.6  
 NEAR EAST COAST OF KAMCHATKA

GRF	E Z BE	P	05 29 46.4				7870 70.8	16.2 340.6
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DEC 08 FUR  
 H= 19 41 31.0  
 LAT = 47.9 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENBERG AREA, BAVARIA. FELT AT PEISSENBERG.

FUR	+E Z SL	PG	19 41 37.0	1.4	1.66	9	30 0.3	204.1 23.9
	Z SL	MAXIMUM	19 42 24.0	1.5	1.63			

DEC 08 FUR  
 H= 21 57 07.0  
 LAT = 47.9 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

613

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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FUR = PEISSENBERG AREA, BAVARIA. FELT AT PEISSENBERG.

FUR	-E Z SL	PG	21 57 38.0	1.2	1.84	1	30 0.3	204.1 23.9
	Z SL	MAXIMUM	21 58 20.0	1.5	1.96			
GRF	E Z BE	PN	21 58 00.7				200 1.8	182.5 2.4
	E Z BE	PG	21 58 07.4					
	E N BE	SG	21 58 29.9					

DEC 09  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	05 48 14.0	1.7	1.43	6		
	-E Z SL	-	05 48 28.0	1.1	2.16	3		
	-E Z SL	-	05 48 46.0	1.0	2.23	2		
	+E Z SL	-	05 49 44.0	1.6	1.30	2		

DEC 09 USCGS  
 H= 18 54 06.0  
 LAT = 47.6 N  
 LONG= 156.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 KURIL ISLANDS REGION

GRF	E Z BE	P	19 06 06.-				8730 78.5	23.4 337.6
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DEC 09 USCGS  
 H= 21 59 11.9  
 LAT = 44.0 N  
 LONG= 148.4 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 KURIL ISLANDS

GRF	+E Z BE	P	22 11 17.3	0.9	1.53	2	8840 79.5	30.0 333.3
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DEC 10  
 NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	07 59 08.0	1.6	1.15	4		
	-I Z SL	-	07 59 18.0	2.0	1.87	2		

DEC 10 USCGS  
 H= 19 53 58.2  
 LAT = 14.8 S  
 LONG= 167.0 E  
 DEPTH= 21 KM  
 MAGNITUDE= 5.4  
 NEW HEBRIDES ISLANDS

614

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	E Z BE	PKP	20	13	28.-				15570	140.0	38.2	335.5
		PP	20	16	24.8							
BNS	-E Z FS	PKP	20	13	29.-	2.0	2.11	3	15610	140.4	31.6	339.9
		PP	20	16	41.-							
		LR	21	01	00.-							
FUR	+E Z SL	PKP	20	13	26.0	1.5	1.08	4	15700	141.1	39.4	333.9
		XPKP	20	13	40.0	1.8	1.93	2				
		-	20	14	15.0	1.8	2.01	2				
		APP	20	16	44.0	1.7	1.73	2				
		SKP	20	17	03.0	1.6	1.30	9				
BUH	+E Z GT	PKP	20	13	28.-	2.0	1.30		15790	142.0	34.7	337.0

DEC 11 USCGS  
 H= 05 08 58.1  
 LAT = 15.3 S  
 LONG = 177.4 W  
 DEPTH = 465 KM  
 MAGNITUDE = 4.3  
 FIJI ISLANDS REGION

BNS	I Z FS	PKP	05	27	41.7	1.1	1.85	4	16040	144.3	7.6	355.1
GRF	-I Z BE	PKP	05	27	44.5	0.9	1.59	2	16120	145.0	14.6	350.2

DEC 11 USCGS  
 H= 10 33 07.6  
 LAT = 50.0 S  
 LONG = 114.9 W  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.7  
 EASTER ISLAND CORDILLERA

FUR	+I Z SL	PKP	10	52	44.0	2.0	1.91	9	16160	145.3	246.3	71.8
	-E Z SL	-	10	53	21.0	1.5	1.23	2				
GRF	E Z BE	PKP	10	52	47.-				16220	145.9	248.3	69.3

DEC 11  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	P	14	48	27.0	1.6	1.15	7				
	-I Z SL	-	14	48	45.0	1.5	1.23	2				

DEC 11  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	18	03	31.0	1.6	1.00	1				
	Z SL	MAXIMUM	18	04	57.0	1.5	1.45					

DEC 1969

615

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.
GRF	-E Z BE	P	18	03	50.3							
		S	18	04	21.5							

DEC 12 USCGS  
 H= 01 13 11.4  
 LAT = 40.1 N  
 LONG = 143.8 E  
 DEPTH = 11 KM  
 MAGNITUDE = 5.0  
 OFF EAST COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	01	25	30.1	1.4	2.23	3	9040	81.3	34.8	331.1
BNS	E Z FS	P	01	25	31.0	1.5	1.90	3	9080	81.7	32.1	334.0
		LR	01	43	00.-							
	FS	MAXIMUM	01	54	00.-	20.0						
FUR	-I Z SL	P	01	25	37.0	1.6	1.26	2	9180	82.5	34.7	330.2
		PCP	01	25	39.0	1.4	1.66	9				
		XPCP	01	25	45.0	1.8	1.76	9				
STU	+E Z BE	P	01	25	37.0	0.8	1.64	3	9210	82.8	33.4	331.7
BUH	+E Z GT	P	01	25	40.0	2.0	1.60		9260	83.2	32.7	332.2

DEC 12 USCGS  
 H= 04 07 57.3  
 LAT = 52.8 N  
 LONG = 31.9 W  
 DEPTH = 33 KM (NORMAL)  
 MAGNITUDE = 4.6  
 NORTH ATLANTIC RIDGE

BUH	+E Z GT	P	04	13	23.5	1.0	1.10		2830	25.5	294.7	83.1
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DEC 12  
 NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	15	04	57.0	1.0	1.88	1				
	Z SL	MAXIMUM	15	05	16.0	1.2	2.31					

DEC 12 FUR  
 H= 19 40 45.0  
 LAT = 47.9 N  
 LONG = 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISENBERG AREA, BAVARIA. FELT AT PEISENBERG.

616

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

FUR	-E Z SL	PG	19	40	51.0	1.4	1.43	3	30	0.3	204.1	23.9
	Z SL	MAXIMUM	19	41	30.0	1.5	2.00					
GRF	E Z BE	PN	19	41	11.0				200	1.8	182.5	2.4
	E Z BE	PG	19	41	17.7							
	E N BE	SG	19	41	40.6							

DEC 13 USCGS

H= 03 06 40.0

LAT = 1.0 N

LONG= 27.9 W

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.8

CENTRAL MID-ATLANTIC RIDGE

FUR	-E Z SL	P	03	16	35.0	1.6	1.20	8	6440	57.9	228.3	30.0
	-E Z SL	AP	03	16	44.0	1.5	0.90	5				
	+E Z SL	-	03	17	06.0	1.8	1.60	7				

DEC 13 USCGS

H= 03 19 58.3

LAT = 1.0 N

LONG= 28.0 W

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 5.6

CENTRAL MID-ATLANTIC RIDGE

BUH	-I Z GT	P	03	29	41.2	1.3	1.80		6320	56.8	225.0	27.9
KRL	E Z ST	P	03	29	44.-	1.0	1.70		6350	57.1	225.0	27.8
STU	+E Z BE	P	03	29	44.5	1.5	1.88	3	6370	57.3	225.9	28.4
FUR	+I Z SL	P	03	29	49.0	1.5	1.58	9	6440	57.9	228.4	30.0
	-I Z SL	AP	03	29	58.0	1.5	1.40	3				
	-I Z SL	XP	03	30	03.0	1.5	1.40	3				
BNS	+I Z FS	P	03	29	50.5	1.3	2.18	6	6450	58.0	222.8	25.5
	E Z FS	-	03	30	16.4							
	FS	LR	03	47	00.-	40.0						
GRF	+E Z BE	P	03	29	56.2	1.4	2.25	4	6550	58.9	227.6	26.7

DEC 13 USCGS

H= 03 40 34.8

LAT = 34.0 N

LONG= 137.0 E

DEPTH= 358 KM

MAGNITUDE= 5.1

NEAR S. COAST OF HONSHU, JAPAN

GRF	+E Z BE	P	03	52	26.2	1.0	1.78	3	9320	83.8	42.7	328.0
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617

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME			PER.	LOG. AMP.	S/N	DISTANCE		AZIMUTH	
			H	M	S				KM	DEG.	STAT.	EPIC.

BNS	+E Z FS	P	03	52	28.5	1.0	1.78	3	9400	84.6	39.9	330.8
FUR	-I Z SL	P	03	52	32.0	1.5	1.08	7	9440	84.9	42.6	326.9

DEC 13

NO DETERMINATION OF EPICENTER

GRF	E Z BE	PG	10	58	50.9			1				
	E N BE	SG	10	59	38.6							

DEC 13 USCGS

H= 13 28 39.5

LAT = 46.5 N

LONG= 152.6 E

DEPTH= 33 KM (NORMAL)

MAGNITUDE= 4.8

KURIL ISLANDS

GRF	-E Z HE	P	13	40	40.0	1.0	1.72		8730	78.5	26.1	335.6
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DEC 13 USCGS

H= 21 37 06.0

LAT = 23.9 N

LONG= 126.5 E

DEPTH= 20 KM

MAGNITUDE= 5.4

RYUKYU ISLANDS REGION

GRF	E Z BE	P	21	49	54.6				9680	87.0	56.0	324.0
FUR	+I Z SL	P	21	50	02.0	1.5	1.23	5	9770	87.8	56.0	322.7
	-I Z SL	AP	21	50	08.0	1.5	1.23	2				
	-I Z SL	-	21	50	23.0	1.5	1.11	3				

DEC 13

NO DETERMINATION OF EPICENTER

BNS	+E Z X	PG	22	55	00.2							
	+I N X	SG	22	55	11.5	0.6	2.23					

DEC 14 USCGS

H= 02 42 09.4

LAT = 2.0 N

LONG= 126.9 E

DEPTH= 42 KM

MAGNITUDE= 6.0

MOLUCCA PASSAGE

GRF	E Z BE	P	02	56	25.5				11650	104.8	68.6	322.8
	E Z BE	PP	03	00	28.-							

DEC 1969



DEC 1969

618

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
FUR	+I Z SL	-	02 59 48.0	1.5	1.23	5	11710 105.3	69.0 321.3
	+I Z SL	PP	03 00 41.0	2.0	2.09	9		
	+I Z SL	-	03 00 47.0	1.8	2.11	6		
	+I Z SL	APP	03 00 52.0	1.5	1.52	5		
	-E Z SL	SKS	03 06 49.0	3.0	2.40	9		
	+E Z SL	SKKS	03 07 26.0	3.0	2.32	2		
	+I Z SL	SP	03 09 43.0	3.0	2.62	9		
	N SL	MAXIMUM	03 44 10.0	11.0	4.00			
BNS	-E Z FS	PP	03 00 52.5	4.0	2.90	4	11860 106.6	64.9 325.0
	E Z FS	LR	03 32 00.-	70.0				
	FS	MAXIMUM	03 42 00.-	32.0				
DEC 14 USCGS								
H= 16 03 53.9								
LAT = 43.6 N								
LONG = 145.9 E								
DEPTH = 68 KM								
MAGNITUDE = 4.6								
HOKKAIDO, JAPAN REGION								
GRF	E Z BE	P	16 15 53.0				8790 79.0	31.8 331.9
DEC 14 USCGS								
H= 18 37 09.5								
LAT = 8.2 N								
LONG = 58.5 E								
DEPTH = 33 KM (NORMAL)								
MAGNITUDE = 6.0								
CARLSBERG RIDGE								
FUR	+I Z SL	P	18 46 47.0	1.4	2.90	9	6260 56.3	119.1 323.8
	+I Z SL	AP	18 46 55.0	2.0	2.69	8		
	+I Z SL	-	18 47 29.0	1.9	2.65	7		
	-I Z SL	PCP	18 47 41.0	1.8	2.38	5		
	+I Z SL	XPCP	18 47 56.0	2.0	2.45	9		
	+I Z SL	-	18 48 11.0	1.5	1.52	2		
	+I Z SL	PP	18 48 56.0	2.0	2.36	2		
	+I Z SL	APP	18 49 06.0	2.0	2.39	9		
	+I Z SL	PPP	18 50 10.0	2.0	2.09	9		
	-I Z SL	-	18 50 46.0	2.2	2.27	9		
	+E Z SL	PCS	18 51 47.0	2.0	1.81	1		
GRF	-E Z BE	P	18 46 52.8	0.9	2.14	2	6340 57.0	120.0 325.4
	E Z BE	PCP	18 47 59.0					
RAV	E Z ST	P	18 46 54.3	2.0	3.46	2	6340 57.1	117.3 322.8
STU	E Z BE	P	18 46 57.4	2.0	2.80	1	6420 57.8	117.5 323.6
BUH	-I Z GT	P	18 47 02.4				6480 58.3	116.6 323.2
	+I Z GT	-	18 47 03.4	1.7	2.20			
KRL	-E Z ST	P	18 47 04.-	2.0	2.70		6490 58.3	116.9 323.6

619

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
TNS	I	P	18 47 07.6				6550 58.9	117.6 324.9
HAM	E Z SX	P	18 47 13.-			4	6630 59.6	120.7 328.7
BNS	+E Z FS	P	18 47 13.8	1.8	3.06	9	6660 59.9	116.8 325.2
	E Z FS	-	18 49 27.5					
	FS	LR	19 15 00.-					
DEC 15 USCGS								
H= 00 14 23.2								
LAT = 51.4 N								
LONG = 179.5 W								
DEPTH = 35 KM								
MAGNITUDE = 4.6								
ANDREANOF ISLANDS, ALEUTIAN IS.								
GRF	E Z BE	P	00 26 24.4				8770 78.8	6.8 353.0
DEC 15								
NO DETERMINATION OF EPICENTER								
FUR	+E Z SL	-	02 31 29.0	1.5	0.90	5		
DEC 16 USCGS								
H= 11 47 31.6								
LAT = 39.3 N								
LONG = 20.6 E								
DEPTH = 64 KM								
MAGNITUDE = 4.5								
GREECE-ALBANIA BORDER REGION								
DEC 16 BCIS								
H= 11 47 33.0								
LAT = 39.5 N								
LONG = 20.7 E								
NO DEPTH COMPUTED								
NO MAGNITUDE COMPUTED								
GREECE-ALBANIA BORDER REGION								
GRF	E Z BE	P	11 50 26.0				1370 12.3	143.7 330.3
DEC 16								
NO DETERMINATION OF EPICENTER								
GRF	E Z BE	PN	13 40 38.1					
	-E Z BE	PG	13 40 40.5			5		
	E Z BE	SG	13 41 02.3					
DEC 16								
NO DETERMINATION OF EPICENTER								

DEC 1969

620

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	E Z BE	Pg	14 19 13.5					
	E Z BE	Sg	14 19 43.2					

DEC 16  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	18 21 23.0	1.5	0.90	5		
	E SL	MAXIMUM	18 23 00.0	1.5	1.83			

GRF	+E Z BE	PN	18 21 28.6					
	-I Z BE	Pg	18 21 50.9	0.6	1.48	3		

DEC 17 USCGS  
H= 02 29 42.0  
LAT = 2.9 N  
LONG= 98.6 E  
DEPTH= 52 KM  
MAGNITUDE= 4.9  
NORTHERN SUMATRA

GRF	+E Z BE	P	02 42 23.6	1.0	1.56	3	9580 86.1	90.1 319.4
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DEC 17 USCGS  
H= 07 30 22.4  
LAT = 15.4 S  
LONG= 167.6 E  
DEPTH=134 KM  
MAGNITUDE= 4.9  
NEW HEBRIDES ISLANDS

FUR	+I Z SL	PKP	07 49 37.0	2.0	2.09	3	15780 141.9	38.9 334.1
	+I Z SL	PP	07 52 46.0	2.0	1.91	3		

DEC 17  
NO DETERMINATION OF EPICENTER

FUR	+I Z SL	-	14 59 38.0	1.6	1.26	5		
	+I Z SL	-	14 59 48.0	1.5	1.23	2		

DEC 17 USCGS  
H= 15 00 00.0  
LAT = 37.1 N  
LONG= 116.0 W  
DEPTH= 0 KM  
MAGNITUDE= 5.5  
SOUTHERN NEVADA

USCGS= 37 DEG 00 MIN 23.7 SEC N, 116 DEG 01 MIN 22.1 SEC W  
NEVADA TEST SITE #LOVAGE#, SHOT ELEVATION 378.6 METERS. (AEC).  
MAG. 5.1 (PAS).

621

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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BNS	I Z FS	P	15 12 07.7	1.4	2.04	3	8800 79.1	317.0 32.6
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BUH	+E Z GT	P	15 12 19.0	1.3	1.70		9040 81.3	318.0 33.7
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GRF	+E Z HE	P	15 12 21.6	1.2	1.84	3	9100 81.8	320.0 31.5
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FUR	+I Z SL	P	15 12 29.0	1.5	1.30	4	9230 83.0	320.1 32.5
	+E Z SL	PCP	15 12 41.0	1.5	1.08	4		

DEC 17 USCGS  
H= 20 42 13.9  
LAT = 30.9 S  
LONG= 179.9 W  
DEPTH=407 KM  
MAGNITUDE= 4.4  
KERMADEC ISLANDS REGION

GRF	-E Z BE	PKP	21 02 05.6	0.8	1.52	2	17730 159.4	28.2 339.1
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FUR	+E Z SL	PKP2	21 02 11.0	1.5	1.23	2	17880 160.8	30.4 336.8
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DEC 18  
NO DETERMINATION OF EPICENTER

FUR	-E Z SL	-	11 15 20.0	1.5	1.11	1		
	-I Z SL	-	11 15 40.0	1.5	1.23	1		

DEC 18 USCGS  
H= 13 32 05.2  
LAT = 46.3 N  
LONG= 142.5 E  
DEPTH=344 KM (GEOPHYSICIST)  
MAGNITUDE= 5.9  
SAKHALIN ISLAND

HAM	E Z SX	P	13 43 00.-			3	8090 72.7	32.3 332.5
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GRF	+E Z BE	P	13 43 13.9	0.6	1.76	5	8390 75.5	32.6 329.7
	E Z BE	APCP	13 44 35.5					
	E Z BE	-	13 48 18.2					
	E N BE	S	13 52 24.5					

BNS	+E Z X	P	13 43 14.7	1.2	2.70	9	8420 75.7	30.2 332.7
	E Z X	-	13 45 03.-					
	-I X	S	13 52 26.-	2.5	2.77			

FUR	+I Z SL	P	13 43 20.0	1.5	2.11	9	8530 76.7	32.4 328.8
	+I Z SL	-	13 43 35.0	1.5	1.88	3		
	-I Z SL	AP	13 44 42.0	1.5	1.54	3		
	-I Z SL	APCP	13 44 54.0	1.5	1.48	2		
	-I Z SL	XP	13 45 14.0	2.0	2.39	5		
	-I Z SL	PP	13 46 16.0	1.5	1.45	2		
	-I Z SL	APP	13 47 28.0	1.5	1.18	2		

622

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-E Z SL	XPP		13 48 06.0	2.0	1.91	9		
+E Z SL	S		13 52 38.0	2.8	2.27	9		
+E Z SL	SCS		13 53 03.0	2.6	2.20	1		
+I Z SL	-		13 53 33.0	2.0	2.09	4		
N SL	MAXIMUM		13 59 00.0	26.0	3.20			
STU	+E Z BE	P	13 43 21.1	0.9	2.60	3	8560 77.0	31.2 330.4
	-E E BE	S	13 52 40.0	13.2	3.67	6		
KRL	+E Z ST	P	13 43 24.-	1.7	2.70		8560 77.0	30.7 331.0
BUH	-E Z GT	P	13 43 23.5				8600 77.4	30.6 330.9
	-I Z GT	-	13 43 26.1	1.8	2.30			

 DEC 18  
NO DETERMINATION OF EPICENTER

GRF	E Z BE	Pg	13 58 33.1					
	E N BE	Sg	13 58 53.0					

 DEC 18  
NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	14 13 24.0	1.5	1.08	7		
	-E Z SL	-	14 13 34.0	1.7	1.49	2		

 DEC 18  
NO DETERMINATION OF EPICENTER

BNS	E Z X	Pg	18 16 19.0					
	E E X	Sg	18 16 27.5					
	I X	-	18 16 28.-	1.0	2.71			
	E E X	-	18 16 39.5	1.5	3.18			

GRF	E Z BE	P	18 17 02.2					
	E N BE	S	18 17 53.5					

FUR	+E Z SL	-	18 18 25.0	1.7	1.11	3		
	Z SL	MAXIMUM	18 19 26.0	1.5	1.23			

 DEC 18 USCGS  
H= 19 00 00.0  
LAT = 37.1 N  
LONG= 116.0 W  
DEPTH= 0 KM  
MAGNITUDE= 5.2  
SOUTHERN NEVADA

BNS	E Z FS	P	19 12 07.5	1.5	1.70	2	8800 79.1	317.1 32.6
GRF	E Z BE	P	19 12 21.7				9100 81.8	320.0 31.5
FUR	+E Z SL	P	19 12 29.0	1.5	1.11	4	9230 83.0	320.2 32.4

623

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
-I Z SL	-		19 12 35.0	1.5	1.23	2		
DEC 18	USCGS							
H=	19 00 39.9							
LAT =	71.7 N							
LONG=	2.7 W							
DEPTH=	33 KM (NORMAL)							
MAGNITUDE=	4.6							
JAN MAYEN ISLAND REGION								
GRF	E Z BE	P	19 05 43.7				2550 23.0	348.7 156.4
FUR	+E Z SL	-	19 06 04.0	1.6	1.15	1	2720 24.5	349.4 157.0

 DEC 19 USCGS  
H= 04 29 59.7  
LAT = 43.2 N  
LONG= 147.7 E  
DEPTH= 29 KM  
MAGNITUDE= 4.7  
KURIL ISLANDS

GRF	E Z BE	P	04 42 07.8				8890 79.9	30.7 333.0
FUR	+E Z SL	P	04 42 16.0	1.5	0.70	1	9030 81.2	30.6 332.2
	-E Z SL	APCP	04 42 27.0	1.8	1.60	7		
	+E Z SL	XPCP	04 42 37.0	2.0	1.91	9		

 DEC 19 USCGS  
H= 13 30 54.6  
LAT = 60.2 N  
LONG= 147.0 W  
DEPTH= 14 KM  
MAGNITUDE= 5.2  
SOUTHERN ALASKA

GRF	E Z BE	P	13 42 01.2				7670 69.0	348.5 15.0
FUR	-I Z SL	AP	13 42 11.0	1.9	1.84	2	7840 70.5	348.7 15.3
	+I Z SL	-	13 42 57.0	2.0	2.12	3		

 DEC 20 USCGS  
H= 06 58 36.5  
LAT = 51.7 N  
LONG= 173.5 W  
DEPTH= 38 KM  
MAGNITUDE= 4.0  
ANDREANOF ISLANDS, ALEUTIAN IS.

GRF	+E Z BE	P	07 10 37.7				8780 78.9	3.0 356.9
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DEC 1969

624

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 20 FUR  
 H= 08 36 23.8  
 LAT = 47.8 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

DEC 20 BCIS  
 H= 08 36 25.0  
 LAT = 47.7 N  
 LONG= 11.1 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 GERMANY

FUR = PEISSENBERG AREA, BAVARIA. FELT STRONGLY AT PEISSENBERG.

FUR	-I Z SL	SG	08 36 36.0	1.4	1.77	9	50 0.4	194.9 14.8
	Z SL	MAXIMUM	08 37 20.0	1.5	2.71			
RAV	E N ST	SG	08 37 02.0	1.0	2.94	5	110 1.0	90.2 271.3
GRF	+E Z BE	PN	08 36 59.3				210 1.9	181.9 1.8
	E Z BE	PG	08 37 05.8					
	E N BE	SG	08 37 29.2					
FEL	E N ST	SG	08 37 32.1	0.8	1.68	3	230 2.1	91.7 274.0
BUH	E Z GT	PN	08 37 04.-				240 2.1	114.0 296.2
	E Z GT	-	08 37 07.7					
KRL	E Z ST	PN	08 37 45.-	1.3	2.40		240 2.2	123.5 305.5
HEI	E E ST	SG	08 37 40.0	0.8	2.46	2	250 2.3	134.8 316.6

DEC 20 BCIS  
 H= 17 40 35.0  
 LAT = 36.5 N  
 LONG= 23.6 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 SOUTHERN GREECE

DEC 20 USCGS  
 H= 17 40 36.3  
 LAT = 36.6 N  
 LONG= 23.5 E  
 DEPTH= 88 KM  
 MAGNITUDE= 4.6  
 SOUTHERN GREECE

FUR	+I Z SL	P	17 43 59.0	2.0	1.91	3	1640 14.8	137.6 325.9
	-I Z SL	-	17 44 05.0	1.8	1.93	9		
	-I Z SL	PP	17 44 12.0	1.5	1.08	2		

625

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	XP	17 44 21.0	1.7	1.69	2		
GRF	E Z BE	P	17 44 14.8				1770 16.0	141.1 329.6
	I Z BE	-	17 44 18.3					
BUH	E Z GT	P	17 44 21.-				1840 16.6	131.5 322.0
	I Z GT	-	17 44 23.1					

DEC 21 USCGS  
 H= 00 29 50.0  
 LAT = 29.7 S  
 LONG= 179.1 W  
 DEPTH=268 KM  
 MAGNITUDE= 4.9  
 KERMADEC ISLANDS REGION

GRF	+E Z BE	PKP	00 49 53.7	1.2	2.03	6	17630 158.5	25.3 341.4
BUH	-E Z GT	PKP	00 49 59.8	1.0	1.30		17820 160.2	19.2 345.5

DEC 21 USCGS  
 H= 10 18 02.4  
 LAT = 28.2 N  
 LONG= 130.6 E  
 DEPTH= 28 KM  
 MAGNITUDE= 5.6  
 RYUKYU ISLANDS

GRF	E Z BE	P	10 30 41.0				9530 85.7	50.5 325.4
FUR	-I Z SL	XP	10 30 55.0	1.5	1.30	4	9630 86.6	50.5 324.2
	-I Z SL	-	10 31 02.0	1.5	1.40	9		

DEC 21 USCGS  
 H= 12 20 14.8  
 LAT = 42.5 N  
 LONG= 144.9 E  
 DEPTH= 28 KM  
 MAGNITUDE= 4.9  
 HOKKAIDO, JAPAN REGION

GRF	E Z BE	P	12 32 22.2				8860 79.7	32.9 331.5
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DEC 21 USCGS  
 H= 19 06 22.2  
 LAT = 45.6 N  
 LONG= 26.9 E  
 DEPTH= 34 KM  
 MAGNITUDE= 4.6  
 RUMANIA

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 DEC 1969 DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 21 BCIS  
 H= 19 06 23.0  
 LAT = 45.7 N  
 LONG= 26.9 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 RUMANIA

FUR	+I Z SL	PP	19 09 12.0	1.5	1.11	2	1230 11.0	97.8 289.2
	-E Z SL	-	19 09 29.0	1.5	1.11	8		
	-E Z SL	SSS	19 11 32.0	1.5	1.11	3		
	Z SL	MAXIMUM	19 14 30.0	10.0	3.36			

GRF	+E Z BE	-	19 09 06.4				1270 11.4	105.3 296.9
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DEC 21 BCIS  
 H= 22 01 06.0  
 LAT = 36.8 N  
 LONG= 26.6 E  
 DEPTH= 70 KM  
 NO MAGNITUDE COMPUTED  
 DODECANESE ISLANDS

DEC 21 USCGS  
 H= 22 01 06.7  
 LAT = 36.7 N  
 LONG= 28.4 E  
 DEPTH= 68 KM  
 MAGNITUDE= 4.7  
 DODECANESE ISLANDS

GRF	-E Z BE	P	22 05 13.9				2000 18.0	129.1 321.1
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BUH	+E Z GT	P	22 05 25.-	1.2	0.90		2120 19.0	121.0 315.0
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DEC 22 USCGS  
 H= 01 15 03.3  
 LAT = 43.6 N  
 LONG= 147.7 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.2  
 KURIL ISLANDS

GRF	E Z BE	P	01 27 10.3				8850 79.6	30.6 333.0
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627

 DEC 1969 DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 22 USCGS  
 H= 08 13 42.3  
 LAT = 16.0 S  
 LONG= 173.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.8  
 TONGA ISLANDS

GRF	-E Z BE	PKP	08 33 22.7	1.2	1.58	2	16260 146.2	7.5 354.9
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DEC 22 USCGS  
 H= 11 19 19.3  
 LAT = 52.5 N  
 LONG= 168.1 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.2  
 FOX ISLANDS, ALEUTIAN ISLANDS

BNS	+E Z FS	P	11 31 10.9	1.5	1.85	2	8550 76.9	357.1 3.0
	E Z FS	-	11 31 22.6					
	FS	MAXIMUM	12 10 00.-					19.0

GRF	+E Z BE	P	11 31 18.2	1.2	2.16	4	8700 78.2	359.6 0.4
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STU	+E Z BE	P	11 31 22.4	0.8	1.56	3	8800 79.1	358.3 1.8
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BUH	-E Z GT	P	11 31 23.-	1.2	1.60		8810 79.2	357.7 2.4
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FUR	+E Z SL	P	11 31 26.0	1.6	1.61	9	8870 79.7	359.6 0.4
	-E Z SL	AP	11 31 36.0	1.5	1.18	2		
	-I Z SL	PCP	11 31 39.0	1.5	1.58	3		

DEC 22  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	11 50 51.2					
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DEC 22  
 NO DETERMINATION OF EPICENTER

GRF	E Z BE	-	11 51 57.7					
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DEC 23 USCGS  
 H= 12 42 59.5  
 LAT = 7.3 N  
 LONG= 34.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.7  
 CENTRAL MID-ATLANTIC RIDGE

GRF	E Z BE	P	12 52 43.9				6340 57.1	238.1 33.8
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628

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 23 USCGS  
 H= 13 22 54.2  
 LAT = 57.4 N  
 LONG= 163.1 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 NEAR EAST COAST OF KAMCHATKA

BNS	E Z FS	P	13 34 05.-	2.4	2.28	2	7810 70.2	13.6 344.1
	E Z FS	LR	13 56 00.-					
		FS	14 07 00.-	19.0				
GRF	E Z BE	P	13 34 09.4	1.0	1.78	2	7870 70.8	15.7 341.1
FUR	+E Z SL	P	13 34 19.0	1.4	1.96	9	8040 72.3	15.6 340.6
	+E Z SL	APCP	13 34 39.0	1.5	1.08	2		
	+E Z SL	XPCP	13 34 51.0	1.7	1.65	2		
BUH	-E Z GT	P	13 34 17.6	0.6	0.70		8040 72.3	14.0 342.8

DEC 23 USCGS  
 H= 14 08 00.5  
 LAT = 13.8 N  
 LONG= 120.6 E  
 DEPTH=118 KM  
 MAGNITUDE= 5.3  
 MINDORO, PHILIPPINE ISLANDS

GRF	E Z BE	P	14 20 55.6				10190 91.7	66.4 322.2
	E Z BE	-	14 21 34.2					
	I Z BE	PP	14 24 31.8					
FUR	+E Z SL	P	14 20 59.0	1.6	1.30	5	10260 92.3	66.5 320.8
	-I Z SL	XP	14 21 35.0	1.5	1.23	2		
	+E Z SL	PP	14 24 44.0	2.0	2.21	4		
	-E Z SL	XPP	14 25 16.0	3.0	2.32	9		

DEC 23 USCGS  
 H= 15 50 16.7  
 LAT = 44.5 N  
 LONG= 147.3 E  
 DEPTH= 90 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.5  
 KURIL ISLANDS

GRF	-E Z BE	P	16 02 10.4				8750 78.7	30.4 332.7
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629

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 24 USCGS  
 H= 05 04 44.5  
 LAT = 36.0 N  
 LONG= 10.4 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 NORTH ATLANTIC OCEAN

DEC 24 BCIS  
 H= 05 04 45.0  
 LAT = 35.9 N  
 LONG= 10.4 W  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 NORTH ATLANTIC OCEAN

BCIS = FELT AT RABAT, CASABLANCA AND PORTUGAL.

BUH	-E Z GT	P	05 09 02.-	1.0	1.10		2080 18.7	234.0 41.4
	-I Z GT	-	05 09 09.2					
KRL	-E Z ST	P	05 09 07.5				2110 19.0	233.6 40.8
STU	E Z BE	P	05 09 08.4	0.8	1.86	1	2140 19.3	235.6 42.3
BNS	-E Z FS	P	05 09 13.5	1.5	1.78	3	2180 19.6	226.9 34.7
	E N FS	S	05 12 37.-					
	FS	LR	05 14 00.-					
FUR	+I Z SL	P	05 09 18.0	1.7	1.95	9	2240 20.1	240.6 46.0
	-I Z SL	XP	05 09 27.0	1.5	1.08	4		
	-I Z SL	-	05 09 42.0	1.5	1.23	2		
	-I Z SL	PPP	05 09 45.0	1.5	1.23	2		
	-E Z SL	-	05 09 50.0	2.0	1.81	2		
	+I Z SL	-	05 10 10.0	2.0	1.99	2		
GRF	+I Z BE	P	05 09 26.3	0.9	2.10	7	2320 20.9	237.0 42.2
HAM	E Z SX	P	05 09 46.-			1	2510 22.6	227.3 32.8

DEC 24 USCGS  
 H= 20 36 56.3  
 LAT = 15.6 S  
 LONG= 177.8 W  
 DEPTH=455 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.6  
 FIJI ISLANDS REGION

GRF	+E Z BE	PKP	20 55 44.6	0.5	0.90	2	16140 145.2	15.4 349.7
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DEC 1969

630

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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DEC 25 USCGS  
 H= 02 07 12.1  
 LAT = 39.0 N  
 LONG= 42.6 E  
 DEPTH= 65 KM  
 MAGNITUDE= 4.9  
 TURKEY

USCGS= SLIGHT PROPERTY DAMAGE AT RİTLİS.

FUR	+I Z SL	P	02 12 25.0	1.6	1.40	3	2710	24.4	100.5 302.4
GRF	E Z BE	P	02 12 28.-	1.3	2.34	2	2750	24.7	103.7 306.0

DEC 25 USCGS  
 H= 16 22 36.9  
 LAT = 21.2 S  
 LONG= 170.2 E  
 DEPTH=124 KM  
 MAGNITUDE= 4.8  
 LOYALTY ISLANDS REGION

GRF	-E Z BE	PKP	16 42 06.9	0.8	1.48	3	16350	147.1	37.9 334.7
BNS	E Z FS	PKP	16 42 07.6				16400	147.5	30.4 339.9
FUR	-E Z SL	PKP	16 42 10.0	1.5	1.08	4	16480	148.2	39.5 332.8
	-E Z SL	PKP2	16 42 14.0	1.5	1.23	2			
KRL	+E Z ST	PKP	16 42 12.-	0.7	2.00		16530	148.7	34.1 336.7
BUH	+E Z GT	PKP	16 42 11.7	0.8	0.80		16570	149.0	34.1 336.5

DEC 25 USCGS  
 H= 21 32 27.3  
 LAT = 15.8 N  
 LONG= 59.7 W  
 DEPTH= 7 KM  
 MAGNITUDE= 6.4  
 LEEWARD ISLANDS

USCGS= FELT ON GUADELOUPE, DOMINICA AND MARTINIQUE (VI), ST. VINCENT (V),  
 AND ON ANTIGUA AND BARBADOS (IV). FELT AS FAR AS SAN JUAN, P.R.  
 AND CARACAS, VENEZUELA.  
 TSUNAMI HEIGHTS (CREST TO THROUGH IN METERS) BARBADOS 0.46,  
 ANTIGUA 0.30, DOMINICA 0.12,  
 MAG. 7.0 (PAS), 7.6 (GOL).

BOC	-E Z B4	P	21 42 59.0	2.0	3.13	2	7050	63.4	261.9 40.0
	+E E B4	S	21 51 37.0	6.0	3.72	2			
BUH	+E Z GT	P	21 43 00.2				7090	63.7	264.1 43.2
	I Z GT	-	21 43 01.6	1.3	1.70				

631

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM	DEG.	AZIMUTH STAT. EPIC.
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KRL	+E Z ST	P	21 43 03.-				7100	63.9	264.1 42.9
	E Z ST	-	21 43 05.-						
	E Z ST	-	21 43 06.5						
TNS	I	P	21 43 01.0				7120	64.0	263.5 41.5
	I	S	21 51 45.0						
HLG	+I E X	P	21 43 08.4	1.4	3.08	4	7140	64.2	261.1 37.1
	N X	P	21 43 09.-	1.0	2.80	3			
	Z X	P	21 43 09.-	1.4	3.21	6			
	N X	S	21 51 34.4			2			
	E X	S	21 51 47.-	3.6	3.46	2			
STU	E Z BE	P	21 42 03.7	1.2	3.36	1	7160	64.4	264.8 43.2
	-E E BE	S	21 50 45.7	34.0	5.18	5			
HAM	E Z SX	P	21 43 12.-			2	7260	65.3	263.2 38.1
FUR	-I Z SL	P	21 43 15.0	2.2	2.56	9	7310	65.7	266.7 44.0
	+I Z SL	PCP	21 43 45.0	2.0	2.79	3			
	-I Z SL	PP	21 45 37.0	1.7	2.49	3			
	+I Z SL	S	21 51 55.0	2.0	2.18	3			
	-I Z SL	PS	21 52 08.0	1.5	1.70	3			
	+E Z SL	PPS	21 52 22.0	6.0	2.37	4			
	E SL	MAXIMUM	21 56 00.0	41.0	4.64				
	Z SL	MAXIMUM	22 08 20.0	18.0	4.81				
GRF	-E Z BE	P	21 43 14.8	1.6	2.33	5	7310	65.8	265.9 42.3

DEC 25 USCGS  
 H= 22 26 11.8  
 LAT = 15.8 N  
 LONG= 59.7 W  
 DEPTH= 15 KM  
 MAGNITUDE= 5.5  
 LEEWARD ISLANDS

GRF	E Z BE	P	22 36 58.-				7310	65.8	266.0 42.3
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DEC 25 USCGS  
 H= 22 31 02.3  
 LAT = 16.1 N  
 LONG= 59.8 W  
 DEPTH= 8 KM  
 MAGNITUDE= 6.0  
 LEEWARD ISLANDS

BNS	-I Z FS	P	22 41 33.1	2.3	2.78	8	7020	63.2	262.4 40.7
	+I Z FS	W	22 41 35.5						
BUH	E Z GT	P	22 41 34.-				7070	63.6	264.4 43.3
	E Z GT	-	22 41 38.2	1.6	2.10				
KRL	-E Z ST	P	22 41 38.-	0.8	2.14		7090	63.7	264.4 43.0

DEC 1969				632		DEC 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
TNS	I	P	22 41 34.0				7100 63.9	263.8	41.6
	I	S	22 50 24.0						
STU	+E Z BE	P	22 41 38.7	1.0	2.31	3	7140 64.2	265.1	43.3
HAM	E Z SX	P	22 41 46.-			1	7250 65.2	263.5	38.2
	E Z SX	Xp	22 41 50.-			9			
FUR	+I Z SL	P	22 41 49.0	1.8	1.76	5	7290 65.6	267.0	44.1
	+I Z SL	PCP	22 42 24.0	2.0	2.31	2			
	-I Z SL	PP	22 44 24.0	2.0	2.17	2			
	Z SL	MAXIMUM	23 13 20.0	16.0	4.88				
GRF	-E Z BE	P	22 41 48.7	1.0	1.48	3	7300 65.6	266.3	42.4

 DEC 25  
 NO DETERMINATION OF EPICENTER

BNS	E Z FS	P	23 10 43.8	2.5	2.20	2			
	E Z FS	-	23 10 58.-						

DEC 26 USCGS  
 H= 00 18 21.0  
 LAT = 55.2 N  
 LONG= 160.4 W  
 DEPTH= 25 KM  
 MAGNITUDE= 5.3  
 ALASKA PENINSULA

HAM	E Z SX	P	00 29 41.-			1	7940 71.4	354.2	6.1
	E Z SX	-	00 29 58.-			2			
BNS	+E Z FS	P	00 29 54.5	1.6	2.08	3	8200 73.7	352.6	8.2
	+I Z FS	-	00 30 06.5						
	E FS	-	00 31 11.5						
GRF	+E Z BE	P	00 30 03.9	0.6	1.11	2	8370 75.3	355.0	5.6
KRL	+E Z ST	P	00 30 07.5	0.5	1.90		8420 75.8	353.4	7.6
BUH	+E Z GT	P	00 30 07.-	1.0	0.90		8460 76.1	353.3	7.7
FUR	+E Z SL	P	00 30 13.0	2.0	2.09	9	8540 76.8	355.1	5.7
	-I Z SL	Xp	00 30 24.0	1.5	1.52	3			
	+I Z SL	APCP	00 30 29.0	1.8	1.95	4			
	+I Z SL	XPCP	00 30 35.0	1.5	1.40	9			

DEC 1969				633		DEC 1969			
STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.	
DEC 26	USCGS								
	H= 10 33 59.8								
	LAT = 16.1 N								
	LONG= 59.8 W								
	DEPTH= 16 KM								
	MAGNITUDE= 5.4								
	LEEWARD ISLANDS								
FUR	-I Z SL	-	10 45 06.0	1.8	1.65	8	7290 65.5	267.0	44.1
	-E Z SL	XPCP	10 45 34.0	3.0	2.32	2			
	-E Z SL	PP	10 47 11.0	1.8	1.65	2			
	-E Z SL	PPP	10 48 47.0	2.2	1.99	9			

DEC 26 USCGS  
 H= 15 14 57.2  
 LAT = 18.1 S  
 LONG= 168.2 E  
 DEPTH= 51 KM  
 MAGNITUDE= 4.6  
 NEW HEBRIDES ISLANDS

FUR	-I Z SL	PKP	15 34 29.0	1.6	1.00	5	16080 144.6	40.1	333.1
BUH	-E Z GT	PKP	15 34 30.8	0.8	0.80		16170 145.4	35.1	336.4

DEC 26 USCGS  
 H= 20 03 28.8  
 LAT = 15.8 N  
 LONG= 59.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 LEEWARD ISLANDS

BUH	+I Z GT	P	20 13 58.5	0.9	1.00		7080 63.6	264.1	43.2
KRL	E Z ST	P	20 13 59.5				7090 63.8	264.1	42.9
STU	-E Z BE	P	20 14 02.1	0.9	1.94	4	7150 64.3	264.8	43.2
HAM	E Z SX	AP	20 14 09.-			1	7250 65.2	263.2	38.1
FUR	+I Z SL	P	20 14 11.0	1.7	1.56	8	7300 65.6	266.7	44.0
	+E Z SL	Xp	20 14 23.0	2.0	1.76	7			
	+E Z SL	PCP	20 14 41.0	1.5	1.00	6			
	-E Z SL	APCP	20 14 53.0	1.5	1.11	2			
	-I Z SL	-	20 15 05.0	1.5	1.23	2			
GRF	-E Z BE	P	20 14 11.6	1.0	1.60	2	7300 65.7	265.9	42.3



DEC 1969

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DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 27 BCIS  
 H= 07 31 52.0  
 LAT = 39.0 N  
 LONG= 23.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 AEGEAN SEA

DEC 27 USCGS  
 H= 07 31 52.1  
 LAT = 39.1 N  
 LONG= 23.9 E  
 DEPTH= 31 KM  
 MAGNITUDE= 4.6  
 AEGEAN SEA

BNS	E Z FS	P	07 35 47.0			2	1850 16.7	129.4 321.2
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DEC 27 USCGS  
 H= 14 03 04.4  
 LAT = 16.2 N  
 LONG= 59.6 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.5  
 LEEWARD ISLANDS

BNS	E Z FS	P	14 13 30.-			2	7000 63.0	262.4 40.7
	E Z FS	-	14 13 46.5					

BUH	+E Z GT	P	14 13 32.-	1.2	0.90		7050 63.4	264.4 43.4
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STU	+E Z BE	P	14 13 37.1	1.3	2.06	7	7120 64.0	265.1 43.3
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FUR	-I Z SL	P	14 13 46.0	1.5	1.23	2	7270 65.4	267.0 44.1
	-E Z SL	AP	14 13 54.0	2.0	1.87	2		
	-I Z SL	XP	14 13 58.0	1.5	1.18	9		
	+I Z SL	PCP	14 14 20.0	2.0	1.95	3		
	+I Z SL	XPCP	14 14 32.0	1.5	1.08	4		
	+I Z SL	XPP	14 16 30.0	2.0	1.95	9		

GRF	+E Z BE	P	14 13 46.4	1.3	1.78	2	7280 65.4	266.2 42.4
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DEC 27 USCGS  
 H= 15 43 54.7  
 LAT = 16.2 N  
 LONG= 59.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 LEEWARD ISLANDS

BUH	+E Z GT	P	15 54 22.8	1.0	0.90		7060 63.5	264.4 43.4
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KRL	+E Z ST	P	15 54 25.-	2.0	2.60		7070 63.6	264.4 43.0
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635

DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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GRF	+E Z BE	P	15 54 36.7	1.1	1.70	3	7280 65.5	266.2 42.4
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DEC 28 USCGS  
 H= 01 19 13.4  
 LAT = 43.6 N  
 LONG= 147.8 E  
 DEPTH= 47 KM  
 MAGNITUDE= 4.8  
 KURIL ISLANDS

BNS	E Z FS	P	01 31 20.-			2	8880 79.8	28.0 335.9
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DEC 28 USCGS  
 H= 03 46 58.0  
 LAT = 50.0 N  
 LONG= 77.8 E  
 DEPTH= 0 KM (GEOPHYSICIST)  
 MAGNITUDE= 5.7  
 EASTERN KAZAKH SSR

DEC 28 BCIS  
 H= 03 47 00.0  
 LAT = 50.0 N  
 LONG= 77.8 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 EASTERN KAZAKH SSR

BCIS = PROBABLY ARTIFICIAL.

HAM	E Z SX	P	03 54 42.-			1	4530 40.8	66.3 301.9
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GRF	+I Z BE	P	03 54 50.0	0.9	1.68	6	4630 41.6	63.0 296.2
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FUR	-I Z SL	P	03 54 55.0	1.6	1.76	9	4710 42.3	61.6 294.2
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	+I Z SL	PP	03 56 33.0	2.0	2.17	3		
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	-E Z SL	PCP	03 56 51.0	1.5	1.08	7		
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	+I Z SL	PPP	03 57 03.0	1.7	1.76	9		
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	+I Z SL	-	03 57 20.0	1.9	1.88	2		
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STU	+I Z BE	P	03 55 02.4	1.0	2.52	9	4810 43.2	61.3 295.9
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BNS	+E Z FS	P	03 55 03.5	1.5	1.90	4	4820 43.4	62.5 299.7
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	E Z FS	PP	03 56 43.0					
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KRL	+I Z ST	P	03 55 06.0	0.8	2.20		4850 43.6	61.2 296.6
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BUH	-I Z GT	P	03 55 07.1	0.5	1.20		4880 43.8	60.8 296.3
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DEC 28

NO DETERMINATION OF EPICENTER

FUR	+E Z SL	-	04 08 18.0	1.5	1.11	8		
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DEC 1969 636 DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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+E Z SL	-		04 10 12.0	1.6	1.30	2		
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DEC 28 USCGS  
 H= 04 53 09.2  
 LAT = 43.5 N  
 LONG= 147.9 E  
 DEPTH= 26 KM  
 MAGNITUDE= 5.3  
 KURIL ISLANDS

HAM	E Z SX	P	05 05 01.-			1	8550 76.9	30.0 335.7
GRF	-E Z BE	P	05 05 16.8	0.8	1.68	1	8860 79.7	30.5 333.1
BNS	-I Z FS	P	05 05 17.5	1.2	1.70	3	8880 79.9	27.9 336.0
FUR	-I Z SL	P	05 05 24.0	1.5	1.36	5	9010 81.0	30.4 332.2
	+I Z SL	Xp	05 05 37.0	2.0	1.95	2		
	+I Z SL	XPCP	05 05 43.0	2.0	1.91	9		
	-I Z SL	-	05 05 50.0	1.5	1.40	3		
STU	E Z BE	P	05 05 24.0	0.8	1.75	2	9030 81.2	29.1 333.8
KRL	+E Z ST	P	05 05 25.-	1.0	1.70		9030 81.2	28.6 334.3
BUH	E Z GT	P	05 05 26.-	0.8	0.70		9070 81.6	28.4 334.3

DEC 28 USCGS  
 H= 14 37 58.7  
 LAT = 43.6 N  
 LONG= 147.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 KURIL ISLANDS

GRF	+E Z BE	P	14 50 05.0	1.2	1.51	1	8860 79.6	30.5 333.0
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DEC 28 BCIS  
 H= 22 02 32.0  
 LAT = 40.7 N  
 LONG= 19.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 ALBANIA

DEC 28 USCGS  
 H= 22 02 34.3  
 LAT = 40.7 N  
 LONG= 19.8 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 4.6  
 ALBANIA

 DEC 1969 637 DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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USCGS= FELT AT FIERI AND LUSHNJE (V-VI).

FUR	Z SL	MAXIMUM	22 09 05.0	1.8	2.05		1060 9.6	137.7 323.6
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DEC 29 USCGS  
 H= 00 51 47.2  
 LAT = 16.2 N  
 LONG= 59.7 W  
 DEPTH= 17 KM  
 MAGNITUDE= 5.6  
 LEEWARD ISLANDS

BNS	E Z FS	P	01 02 18.5			2	7010 63.1	262.4 40.7
	E Z FS	-	01 02 32.8					
	E FS	LR	01 21 00.-	45.0				
BUH	E Z GT	P	01 02 17.-				7060 63.5	264.4 43.3
STU	E Z BE	P	01 02 21.3	1.0	1.94	1	7130 64.1	265.1 43.3
HAM	E Z SX	P	01 02 30.-			1	7230 65.0	263.5 38.2
	E Z SX	Ap	01 02 34.-			2		
FUR	+E Z SL	P	01 02 32.0	1.8	1.71	2	7280 65.5	267.0 44.1
	-E Z SL	Xp	01 02 43.0	2.1	2.16	5		
	-I Z SL	PCP	01 03 03.0	1.5	1.18	9		
	-I Z SL	PP	01 04 57.0	2.0	1.99	2		
GRF	E Z BE	P	01 02 36.-				7280 65.5	266.2 42.4

DEC 29 USCGS  
 H= 13 55 49.9  
 LAT = 16.1 N  
 LONG= 59.7 W  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.4  
 LEEWARD ISLANDS

BUH	E Z GT	P	14 06 18.-				7060 63.5	264.4 43.3
GRF	-E Z BE	P	14 06 32.2	1.0	1.60	2	7290 65.5	266.2 42.4

DEC 31 BCIS  
 H= 05 36 57.0  
 LAT = 34.0 N  
 LONG= 25.7 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 CRETE

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DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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DEC 31 USCGS  
 H= 05 37 02.5  
 LAT = 34.4 N  
 LONG= 26.1 E  
 DEPTH= 27 KM  
 MAGNITUDE= 5.0  
 CRETE

FUR	+I Z SL	P	05 41 09.0	1.5	1.64	5	1980 17.8	137.4 326.9
	-I Z SL	PP	05 41 22.0	1.3	2.05	6		
	-I Z SL	-	05 41 38.0	1.5	1.52	2		
	+I Z SL	XPCP	05 46 07.0	1.7	1.65	1		
GRF	-E Z BE	P	05 41 23.1	0.8	1.53	3	2110 19.0	140.3 330.0
BUH	+I Z GT	P	05 41 30.7	1.5	2.20		2180 19.6	132.0 323.6
KRL	E Z ST	P	05 41 30.-	2.0	2.50		2200 19.7	133.0 324.6
BNS	E Z FS	P	05 41 51.2	1.5	2.15	3	2410 21.7	134.4 327.0
	I Z FS	-	05 41 52.2					
	E FS	-	05 43 11.-					

DEC 31 USCGS  
 H= 05 39 06.1  
 LAT = 43.1 N  
 LONG= 147.5 E  
 DEPTH= 50 KM (GEOPHYSICIST)  
 MAGNITUDE= 4.9  
 KURIL ISLANDS

GRF	E Z BE	P	05 51 12.-				8890 80.0	30.9 332.9
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DEC 31 BCIS  
 H= 13 18 32.0  
 LAT = 44.8 N  
 LONG= 17.2 E  
 NO DEPTH COMPUTED  
 NO MAGNITUDE COMPUTED  
 YUGOSLAVIA

DEC 31 USCGS  
 H= 13 18 32.8  
 LAT = 44.9 N  
 LONG= 17.2 E  
 DEPTH= 33 KM (NORMAL)  
 MAGNITUDE= 5.1  
 YUGOSLAVIA

USCGS= 1 DEAD, 10 INJURED AT BANJA LUKA.

FUR	-I Z SL	PN	13 19 50.0	1.4	1.74	9	590 5.3	127.3 311.5
	+I Z SL	PB	13 20 09.0	1.5	2.07	5		

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DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-I Z SL	PG	13 20 33.0	1.5	2.11	4		
	-I Z SL	SN	13 20 49.0	1.5	2.10	5		
	Z SL	MAXIMUM	13 22 00.0	2.0	3.89			
GRF	+E Z BE	P	13 20 05.3				710 6.4	138.0 322.4
STU	E Z BE	PN	13 20 10.5	0.8	2.38	1	750 6.8	122.9 308.7
BUH	E Z GT	P	13 20 17.2				810 7.3	118.8 305.3
KRL	E Z ST	P	13 20 18.-	0.5	1.60		820 7.3	121.7 308.1
TNS	I	P	13 20 32.0				890 8.0	129.2 315.6
	I	S	13 21 55.0					
BNS	+E Z X	PN	13 20 44.1	1.3	2.23	5	1010 9.1	128.6 316.1
	E E X	SN	13 22 17.0	1.0	2.62			
	I X	-	13 22 18.5	1.0	2.91			
	E E X	SG	13 23 25.-	2.2	3.32			
	E N X	-	13 23 27.5	2.2	3.22			
	E X	LR	13 24 56.-	7.0				

DEC 31 USCGS  
 H= 19 01 56.1  
 LAT = 28.5 N  
 LONG= 129.1 E  
 DEPTH= 44 KM  
 MAGNITUDE= 5.9  
 RYUKYU ISLANDS

USCGS= 5 INJURED AND SLIGHT DAMAGE AT NAZE (V). FELT ON YAKU SHIMA (III)  
 AND KAGO SHIMA (I) JMA.  
 MAG. 6.2 (PAS), 6 (GOL).

GRF	+E Z BE	P	19 14 27.1				9410 84.6	51.4 324.8
FUR	+E Z SL	P	19 14 31.0	2.0	1.76	7	9510 85.6	51.3 323.6
	+I Z SL	PCP	19 14 34.0	2.0	2.46	6		
	+I Z SL	XP	19 14 48.0	1.8	2.30	3		
	-I Z SL	PP	19 17 48.0	1.6	1.49	3		
	N SL	MAXIMUM	19 49 00.0	23.0	4.22			
	Z SL	MAXIMUM	19 58 20.0	13.0	4.42			
TNS	I	P	19 14 37.0				9530 85.7	49.4 326.4
	I	S	19 25 04.0					
BNS	-E Z X	P	19 14 31.5	1.6	2.68	9	9540 85.8	48.5 327.5
	E Z X	PP	19 17 48.-					
	I X	S	19 25 04.-					
	E Z SL	PS	19 25 53.-					
	I Z SL	SS	19 31 18.-					
	E SL	SSS	19 42 54.-					
	E Z SL	LR	19 50 20.-					
	Z SL	MAXIMUM	19 57 00.-	14.0				
STU	E Z BE	P	19 14 34.5	1.8	2.67	1	9590 86.2	49.8 324.9



DEC 1969

DEC 1969

STATION ABBREV.	COMP. SEIS.	PHASE	TIME H M S	PER.	LOG. AMP.	S/N	DISTANCE KM DEG.	AZIMUTH STAT. EPIC.
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	-E	E HE	S	19 25 00.0	18.0	3.62	5	
KRL	E Z	ST	P	19 14 37.-	0.7	1.95	9620 86,5	49.3 325.5
BUH	E Z	GT	P	19 14 37.-	0.6	0.50	9650 86,8	49.1 325.3

DEC 31  
NO DETERMINATION OF EPICENTER

FUR	+I	Z SL	-	19 36 37.0	1.7	1.34	5	
	+I	Z SL	-	19 36 44.0	1.5	1.18	2	

DEC 31  
NO DETERMINATION OF EPICENTER

FUR	-I	Z SL	-	23 58 21.0	1.5	1.08	7	
	-I	Z SL	-	23 58 31.0	1.8	1.76	2	
	-I	Z SL	-	23 59 15.0	1.8	1.71	2	

STATION NAME: KRL  
 STATION TYPE: Z  
 STATION CLASS: SL  
 STATION STATUS: A  
 STATION OPERATOR: I  
 STATION INSTRUMENT: S  
 STATION MAGNITUDE: 1.7  
 STATION DATE: 1969-12-31  
 STATION TIME: 19 36 37.0  
 STATION PERIOD: 0.7  
 STATION LOG AMP: 1.95  
 STATION S/N: 5  
 STATION DISTANCE: 9620 86,5  
 STATION AZIMUTH: 49.3 325.5