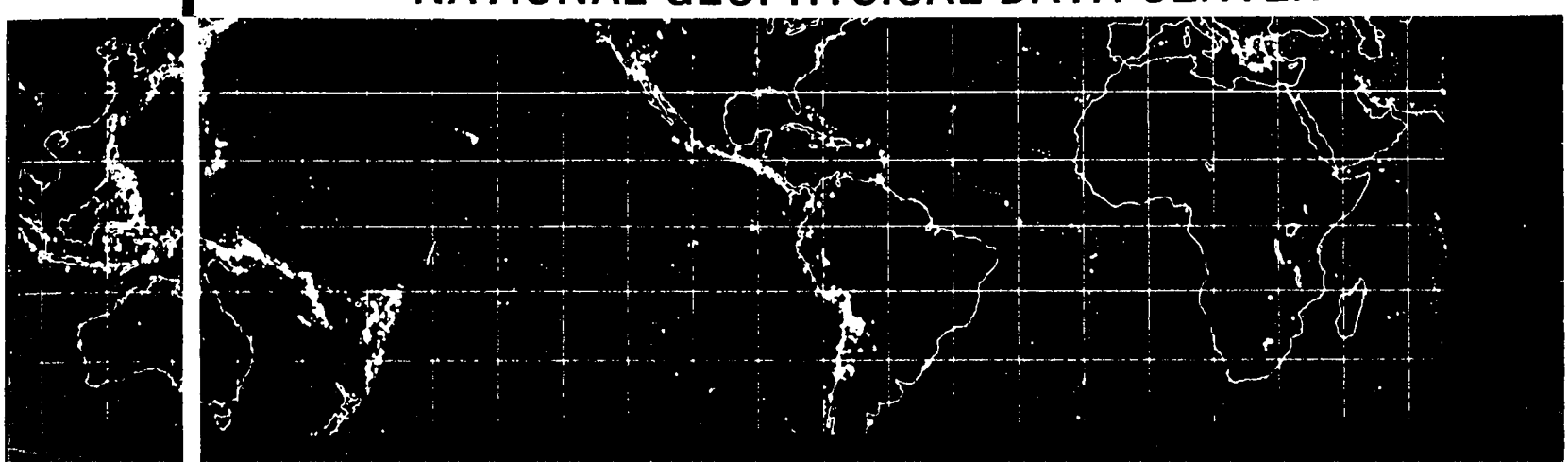
REPORT SE-40

WORLD DATA CENTER A
for
Solid Earth Geophysics

EARTHQUAKE CATALOG FOR THE MIDDLE EAST COUNTRIES 1900–1983

July 1985

NATIONAL GEOPHYSICAL DATA CENTER



WORLD DATA CENTER A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA

World Data Center A consists of the Coordination Office and the following eight Subcenters:

COORDINATION OFFICE
World Data Center A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA
[Telephone: (202) 334-3359]

GLACIOLOGY (Snow and Ice)
World Data Center A: Glaciology (Snow and Ice)
Cooperative Inst. for Research in Environmental Sciences
University of Colorado
Boulder, Colorado 80309 USA
Telephone: (303) 492-5171

MARINE GEOLOGY AND GEOPHYSICS (Gravity, Magnetics, Bathymetry, Seismic Profiles, Marine Sediment, and Rock Analyses):

World Data Center A for Marine Geology and Geophysics
NOAA, E/GC3
325 Broadway
Boulder, Colorado 80303 USA
Telephone: (303) 497-6487

METEOROLOGY (and Nuclear Radiation)
World Data Center A: Meteorology
National Climatic Data Center
NOAA, E/CC
Federal Building
Asheville, North Carolina 28801 USA
Telephone: (704) 259-0682

OCEANOGRAPHY
World Data Center A: Oceanography
National Oceanographic Data Center
NOAA, E/OC
2001 Wisconsin Avenue, NW
Page Bldg. 1, Rm. 414
Washington, D.C. 20235 USA
Telephone: (202) 634-7510

ROCKETS AND SATELLITES
World Data Center A: Rockets and Satellites
Goddard Space Flight Center
Code 601
Greenbelt, Maryland 20771 USA
Telephone: (301) 344-6695

ROTATION OF THE EARTH
World Data Center A: Rotation of the Earth
U.S. Naval Observatory
Washington, D.C. 20390 USA
Telephone: (202) 653-1529

SOLAR-TERRESTRIAL PHYSICS (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare-Associated Events, Geomagnetic Variations, Aurora, Cosmic Rays, Airglow):

World Data Center A for Solar-Terrestrial Physics
NOAA, E/GC2
325 Broadway
Boulder, Colorado 80303 USA
Telephone: (303) 497-6323

SOLID-EARTH GEOPHYSICS (Seismology, Tsunamis, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Magnetic Measurements, Paleomagnetism and Archeomagnetism, Volcanology, Geothermics):

World Data Center A for Solid-Earth Geophysics
NOAA, E/GC1
325 Broadway
Boulder, Colorado 80303 USA
Telephone: (303) 497-6521

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions. WDC-A is established in the United States under the auspices of the National Academy of Sciences. Communications regarding data interchange matters in general and World Data Center A as a whole should be addressed to World Data Center A, Coordination Office (see address above). Inquiries and communications concerning data in specific disciplines should be addressed to the appropriate subcenter listed above.

WORLD DATA CENTER A
for
Solid Earth Geophysics

REPORT SE-40

EARTHQUAKE CATALOG FOR THE MIDDLE EAST COUNTRIES 1900–1983

By

Samir Riad and Herbert Meyers

July 1985

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL GEOPHYSICAL DATA CENTER
Boulder, Colorado, 80303 USA

DESCRIPTION OF WORLD DATA CENTERS

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions (ICSU). They were established in 1957 by the International Geophysical Year Committee (CSAGI) as part of the fundamental international planning for the IGY program to collect data from the numerous and widespread IGY observational programs and to make such data readily accessible to interested scientists and scholars for an indefinite period of time. WDC-A was established in the U.S.A.; WDC-B in the U.S.S.R.; and WDC-C in Western Europe, Australia, and Japan. This new system for exchanging geophysical data was found to be very effective, and the operations of the World Data Centers were extended by ICSU on a continuing basis to other international programs; the WDC's were under the supervision of the Comite International de Geophysique (CIG) for the period 1960 to 1967 and are now supervised by the ICSU Panel on World Data Centres.

The current plans for continued international exchange of geophysical data through the World Data Centers are set forth in the *Fourth Consolidated Guide to International Data Exchange through the World Data Centres*, issued by the ICSU Panel on World Data Centres. These plans are broadly similar to those adopted under ICSU auspices for the IGY and subsequent international programs.

Functions and Responsibilities of WDC's

The World Data Centers collect data and publications for the following disciplines: Meteorology; Oceanography; Rockets and Satellites; Solar-Terrestrial Physics disciplines (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare-Associated Events, Geomagnetic Phenomena, Aurora, Cosmic Rays, Airglow); Solid Earth Geophysics disciplines (Seismology, Tsunamis, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Rotation of the Earth, Magnetic Measurements, Paleomagnetism and Archemagnetism, Volcanology, Geothermics), and Marine Geology and Geophysics. In planning for the various scientific programs, decisions on data exchange were made by the scientific community through the international scientific unions and committees. In each discipline, the specialists themselves determined the nature and form of data exchange, based on their needs as research workers. Thus, the type and amount of data in the WDC's differ from discipline to discipline.

The objects of establishing several World Data Centers for collecting observational data were: (1) to insure against loss of data by the catastrophic destruction of a single center, (2) to meet the geographical convenience of, and provide easy communication for workers in different parts of the world. Each WDC is responsible for: (1) endeavoring to collect a complete set of data in the field or discipline for which it is responsible, (2) safe-keeping of the incoming data, (3) correct copying and reproduction of data, maintaining adequate standards of clarity and durability, (4) supplying copies to other WDC's of data not received directly, (5) preparation of catalogs of all data in its charge, and (6) making data in the WDC's available to the scientific community. The WDC's conduct their operation at no expense to ICSU or to the ICSU family of unions and committees.

World Data Center A

World Data Center A, for which the National Academy of Sciences through the Geophysics Research Forum and its Committee on Geophysical Data has overall responsibility, consists of the WDC-A Coordination Office and seven subcenters at scientific institutions in various parts of the United States. The GRF periodically reviews the activities of WDC-A and has conducted several studies on the effectiveness of the WDC system. As a result of these reviews and studies, some of the subcenters of WDC-A have been relocated so that they could more effectively serve the scientific community. The addresses of the WDC-A subcenters and Coordination Office are given inside the front cover.

The data received by WDC-A have been made available to the scientific community in various ways: (1) reports containing data and results of experiments have been compiled, published, and widely distributed; (2) synoptic-type data on cards, microfilm, or tables are available for use at the subcenters and for loan to scientists; (3) copies of data and reports are provided upon request.

Table of Contents

Section	Page
Abstract	1
Introduction	2
Magnitude-Magnitude Relations	15
M_L-I_o-h Relations	19
Magnitude-Frequency Relations	19
Acknowledgments	24
References	25
List of Middle East Earthquakes by Flinn-Engdahl Regions	27

Figures:

1	Map showing the area in the Middle East covered by this catalog, determined by Flinn-Engdahl seismic regions	4
2	M_s-m_b relation for the Middle East	16
3	M_s-M_o relation for the Middle East	16
4	M_s-M_L relation for the Middle East	17
5	m_b-M_s relation for the Middle East	17
6	m_b-M_L relation for the Middle East	18
7	M_L-M_s relation for the Middle East	18
8	M_L-I_o-log h relation for the Middle East	20
9	M_L-I_o relation for the Middle East	20
10	log N-M_L relation for the Middle East	22
11	log N-I_o relation for the Middle East	22
12	The number of earthquakes per year in the Middle East	23
13	The cumulative number of earthquakes in the Middle East	23

Tables:

1	Flinn-Engdahl (F-E) seismic regions included in the Middle East Catalog	3
2	Codes and their corresponding sources	5
3	The number of earthquakes included in this catalog and their source codes	6
4	Summary of Middle East catalog by year and magnitude (M_s)	8
5	Significant earthquakes of the Middle East, 1900-1983	9
6	Magnitude-magnitude-intensity relations for the Middle East	14

EARTHQUAKE CATALOG FOR THE MIDDLE EAST COUNTRIES, 1900-1983

by

SAMIR RIAD
Geology Department, Assiut University, Assiut, Egypt
(CIRES, University of Colorado, Boulder, Colorado, 80309 USA)

HERBERT MEYERS
World Data Center-A for Solid Earth Geophysics, NOAA,
325 Broadway, Boulder, Colorado, 80303, USA.

Abstract

This new catalog of earthquakes occurring in the Middle East from 1900 through 1983 has been compiled from various files stored at the World Data Center A for Solid Earth Geophysics (WDC-A), Boulder, CO, and from other publications. The number of events collected for this catalog exceeds 22,000. A subset of events with reported magnitude 4.5 or greater or intensity VI or greater was prepared for further investigation. This smaller file includes about 8,000 events, of which over 2,400 were reported as suspected duplicates. The duplicates were removed by examining the various sources of data. Preference was given to those sources that reevaluate earthquake parameters and to those that include more complete or recent information.

Magnitude-magnitude and magnitude-intensity relations were evaluated, which made it possible to derive linear-regression equations representing these relations. These equations were obtained by using the reported values of both parameters for the same event. For example, for the M_L-I_0 relation, 438 events were used, for M_S-m_b, 405, and for M_S-M_L, 57.

The relation M_S-m_b for the Middle East was obtained in the form

$$M_S = 1.604\ m_b - 3.37 \pm 0.49 \qquad (1)$$

and the M_L-I_0-h relation was obtained in the form

$$M_L = 0.5\ I_0 + 1.36 \log h - 0.133 \pm 0.44. \qquad (2)$$

Relations between other parameters are also given.

The deduced relations were used to calculate magnitude and intensity values for all events included in the file. The lower limit of M_S included in this catalog is 3.9, which corresponds approximately to a value of $m_b \geq 4.5$ and $I_0 \geq V$. In this way the number of earthquakes included in the present catalog is 5,028, of which 193 are considered significant ones. Significant earthquakes in the Middle East are those with magnitude $M_S \geq 7.0$, number of reported deaths 10 or more, or property damage of 1 million U.S. dollars or more.

Recurrence-rate relations have been derived and given in the form

$$\log N = 7.73 - 1.306\ M_L \qquad (3)$$

$$\log N = 8.44 - 0.98\ I_0. \qquad (4)$$

The value of b given in equation (3) above, $\log N = a + b\ M_L$, shows that the study area belongs to young orogenic belt zones. The mean recurrence period is 25 years for events with $M_L \geq 7.0$ within the studied area in the considered period.

The present catalog was used as the source for the compilation of a seismicity map of the Middle East.

Introduction

The present catalog and the accompanying map are probably the most complete and comprehensive documents on the seismicity of the Middle East to date. The data cover more than 20 countries, extending from Libya in the west, Pakistan and Afghanistan in the east, Ethiopia and Somalia in the south, and Turkey in the north. The retrieval and collection of earthquake data used to prepare the present catalog were carried out by using the Flinn-Engdahl seismic regions that cover the area of interest (Flinn and Engdahl, 1965). (Table 1 shows the geographic regions corresponding to each Flinn-Engdahl seismic area.) Data on earthquakes occurring between January 1900 and December 1983 within these regions were collected (Fig. 1).

The data used as a source for this catalog have been collected from computer files stored at WDC-A and from other published catalogs (Ganse, 1981; Karnik, 1969) and individual articles (Ambraseys and others, 1975; Ambraseys and Melville, 1982, 1983). The total number of earthquakes collected in the first stage surpassed 22,000. Earthquakes with reported magnitude 4.5 or greater or with intensity VI or greater (about 8,000) were considered for further investigation. More than 2,400 were reported as possible duplicates, which were removed after reviewing the various sources (see Tables 2 and 3). Preference was given to sources that evaluated earthquake parameters and to those that included more complete or recent information. After removing the duplicates, reported values of different parameters for the same earthquake

Table 1. Flinn-Engdahl (F-E) seismic regions included in the Middle East catalog

F-E Number (see fig. 1)	Geographic Region
341	Iran - USSR border region
342	Turkmen - Afghanistan border region
343	Turkey - Iran border region
344	N.W. Iran - USSR border region
345	Northwestern Iran
346	Iran - Iraq border region
347	Western Iran
348	Iran
349	Northwestern Afghanistan
350	Southwestern Afghanistan
351	Eastern Arabian Peninsula
352	Persian Gulf
353	Southern Iran
354	Western Pakistan
355	Gulf of Oman
356	Near coast of West Pakistan
366	Turkey
367	Turkey - USSR border region
369	Dodecanese Islands
371	Eastern Mediterranean Sea
372	Cyprus
373	Dead Sea region
374	Jordan - Syria region
375	Iraq
401	Near coast of Libya
415	Eastern Gulf of Aden
416	Socotra region
417	Arabian Sea
418	Laccadive Islands region
419	Northeastern Somalia
552	Libya
553	United Arab Republic
554	Red Sea
555	Western Arabian Peninsula
556	Central Africa
557	Sudan
558	Ethiopia
559	Western Gulf of Aden
560	Northwestern Somalia
571	Southern Somalia
709	Afghanistan
710	Pakistan
711	Southwestern Kashmir
712	India - Pakistan border region
717	Afghanistan - USSR border region
718	Hindu Kush region
720	Northwestern Kashmir

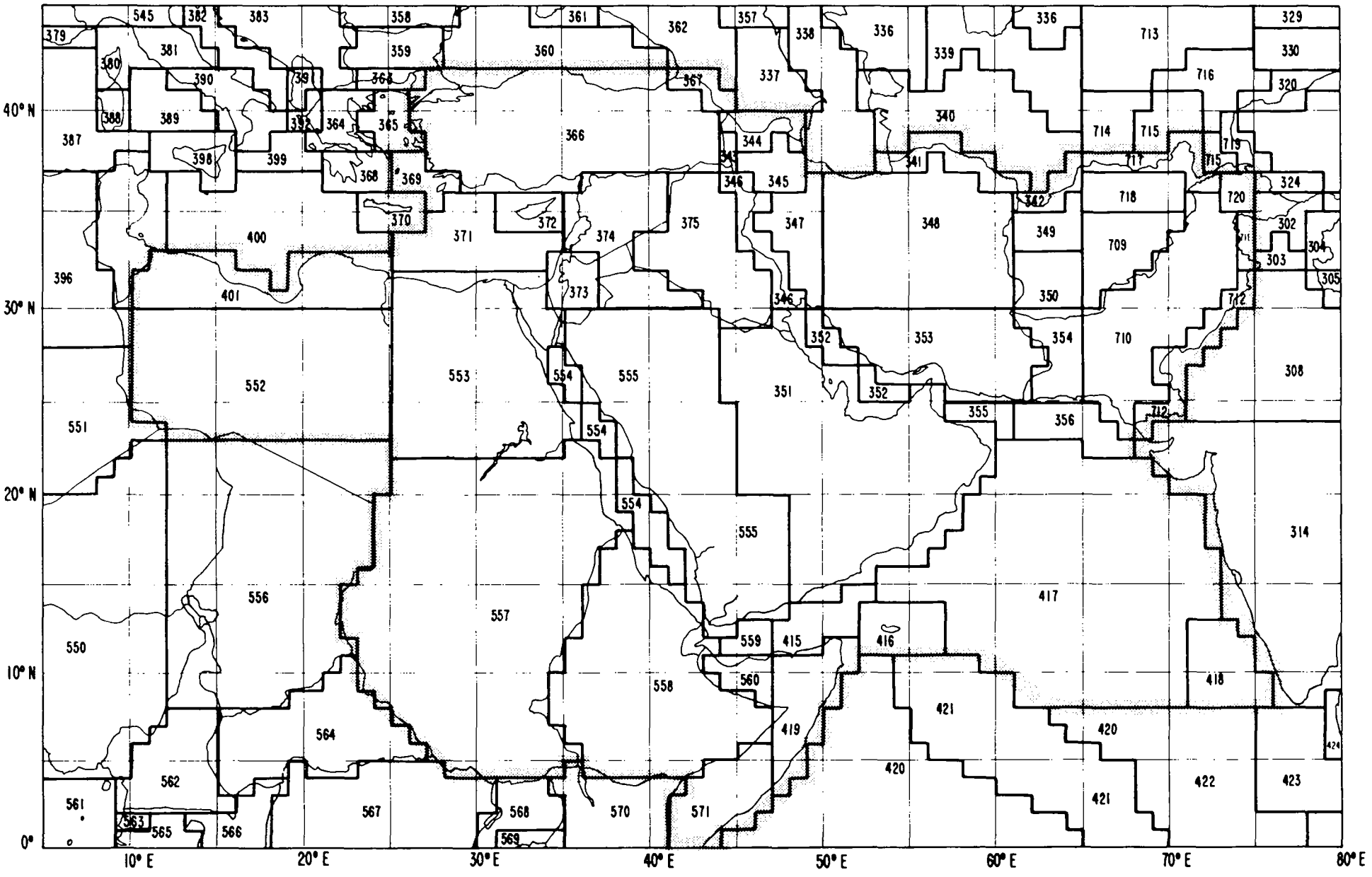


Figure 1. Map showing the area in the Middle East covered by this catalog. Numbers refer to Flinn-Engdahl seismic regions.

Table 2. Codes and their corresponding sources

Code	Source
BDA	Bath and Duda, 1979.
G-R	Gutenberg and Richter, 1956.
KRK	Karnik, 1969.
ISS	International Seismological Centre, Newbury, United Kingdom.
PDE	Preliminary Determination of Epicenters.
SSR	Kondorskaya and Shebalin, 1977.
ANK	Ankara, Turkey.
BCI	Bureau Central International di Seismologique, Strasbourg, France.
SYK	Sykes, 1963, 1965, 1966.
BRG	Bureau de Recherches Geologiques et Mineres, Orleans, France.
USE	U.S. Department of Commerce, United States Earthquakes.
QUE	Quetta, Pakistan.
SIG	Middle East Significant Earthquakes (see Table 5).

Table 3. The number of earthquakes included in this catalog and their source codes

Source Codes*	Number of Earthquakes
BDA	12
G-R	234
KRK	1178
ISS	44
PDE	2677
SSR	373
ANK	298
BCI	7
SYK	8
BRG	1
USE	2
QUE	1
SIG	193
TOTAL	5028

*See Table 2.

(e.g., m_b, M_S, M_L, and I_0) were used to evaluate relations between these parameters. Events for which there was no indication of magnitude type were grouped under the category M_0. Generally, these magnitudes were approximately equal to M_S, but they were not identical. For compiling the Middle East map an "equivalent" M_S was calculated for all events, including deep events, using the relations obtained in this study. Other parameters (m_b, M_L, and I_0) were also calculated for all events that might be used in future studies, including recurrence rate and seismic hazard and regionalization maps.

The lower limit of magnitude included in this catalog is $M_S \geq 3.9$. This value corresponds approximately to a magnitude of $m_b \geq 4.5$ and intensity $I_0 \geq V$. As a result of this limit, the present catalog includes 5,028 events (Table 4), of which 193 are listed as significant earthquakes and are given in a separate list (Table 5). An earthquake is considered significant if it satisfies any of the following requirements (Ganse, 1981):

1 - magnitude $M_S \geq 7.0$.

2 - number of reported deaths is 10 or more.

3 - reported damage in property is 1 million dollars (U.S.) or more.

The significant earthquake list includes 18 events that do not have assigned magnitudes.

Earthquakes included in the present catalog are listed chronologically within each of the 40 regions. Regions that do not have earthquakes are not included (there are seven such regions). Whenever the source of a given value (e.g., magnitude) is different from the source of the main data record, this source is given after that value. An asterisk following any value means the value is calculated using a relation with a reported value for another parameter in the same event. Relations obtained during this study are given in Table 6. A computer program was used to remove duplicates and to calculate additional magnitude values for earthquakes included in the catalog.

Data presented in the catalog are, of course, only as good as the source or reference used in the compilation. While the catalog has been edited as carefully as possible, some errors may remain. If errors of any kind are found, please report them to:

World Data Center-A for Solid Earth Geophysics
NOAA, Code E/GC1
325 Broadway
Boulder, Colorado, 80303, USA.

The reader is also encouraged to provide comments or additional documentation to improve or revise any of the entries, either in the tables or on the map. The catalog is computerized and will be updated periodically.

Table 4. Summary of Middle East catalog by year and magnitude (M_S)

YEAR	MAG NOT GIVEN	LESS THAN 3.9	3.9 TO 4.4	4.5 TO 4.9	5.0 TO 5.4	5.5 TO 5.9	6.0 TO 6.4	6.5 TO 6.9	7.0 TO 7.4	7.5 TO 7.9	8.0 TO 8.4	8.5 TO 8.9	TOTALS
1900	0	0	0	0	2	1	0	0	0	0	0	0	3
1901	0	0	4	3	2	1	0	0	0	0	0	0	10
1902	0	0	1	3	2	0	0	2	0	0	0	0	8
1903	0	0	0	2	8	4	2	2	0	0	0	0	18
1904	0	0	3	5	1	7	3	0	0	0	0	0	19
1905	0	0	1	6	5	3	1	2	1	0	0	0	19
1906	0	0	2	1	2	2	1	2	0	0	0	0	10
1907	0	0	5	4	4	0	3	1	1	0	0	0	18
1908	0	0	0	8	6	2	1	2	1	0	0	0	20
1909	1	0	0	2	5	3	0	2	2	1	0	0	16
1910	0	0	1	4	3	1	2	0	0	0	0	0	11
1911	1	0	0	0	1	1	2	2	1	1	0	0	9
1912	0	0	1	4	2	3	3	3	0	1	0	0	17
1913	1	0	0	2	6	1	1	0	0	0	0	0	11
1914	0	0	9	10	2	0	0	3	2	0	0	0	26
1915	0	0	2	0	5	1	1	1	0	0	0	0	10
1916	0	0	4	4	0	0	1	0	1	0	0	0	10
1917	0	0	2	5	2	3	0	0	1	0	0	0	13
1918	0	0	0	5	7	5	1	0	0	0	0	0	18
1919	0	0	6	8	10	4	0	0	1	0	0	0	29
1920	0	0	2	6	7	3	0	0	0	0	0	0	18
1921	0	0	0	3	8	3	0	1	0	0	1	0	16
1922	0	0	0	6	4	1	2	1	0	1	0	0	15
1923	0	0	2	4	6	2	1	3	0	0	0	0	18
1924	0	0	4	13	8	4	3	1	1	0	0	0	34
1925	0	0	13	20	14	9	1	0	0	0	0	0	57
1926	0	0	4	19	17	10	0	1	0	1	2	0	54
1927	0	0	4	4	5	2	6	0	0	0	0	0	21
1928	0	0	10	10	10	4	5	2	0	0	0	0	41
1929	0	0	9	14	10	8	4	0	2	0	0	0	47
1930	0	0	10	21	16	4	0	0	0	1	0	0	52
1931	0	0	7	12	12	3	4	2	2	0	0	0	42
1932	0	0	10	7	18	2	0	0	0	0	0	0	37
1933	0	0	3	8	9	3	2	1	0	0	0	0	26
1934	0	0	3	3	13	3	5	2	1	0	0	0	30
1935	0	0	8	11	12	10	7	2	1	1	0	0	52
1936	1	0	2	14	7	2	0	1	0	0	0	0	27
1937	0	0	5	3	3	1	2	1	1	0	0	0	16
1938	0	0	3	14	8	3	0	2	0	0	0	0	30
1939	0	0	2	11	23	5	1	2	0	1	1	0	46
1940	0	0	7	11	18	12	4	0	0	0	0	0	52
1941	0	0	6	7	14	7	5	0	0	0	0	0	39
1942	1	0	2	5	15	4	3	0	1	1	0	0	32
1943	1	0	0	13	14	0	4	2	1	1	0	0	36
1944	2	0	4	9	15	9	3	1	1	0	0	0	44
1945	0	0	2	9	6	3	1	0	0	0	1	0	22
1946	0	0	1	6	9	3	1	0	0	0	0	0	20
1947	0	0	7	5	6	2	1	1	1	0	0	0	23
1948	0	0	13	12	9	4	1	1	2	0	0	0	41
1949	0	0	8	22	6	0	0	1	0	1	0	0	38
1950	2	0	5	16	3	3	0	0	0	0	0	0	29
1951	0	0	7	14	4	2	1	2	0	0	0	0	30
1952	0	0	11	15	7	4	0	0	0	0	0	0	37
1953	2	0	20	22	11	2	2	2	1	0	0	0	62
1954	0	0	11	19	8	3	0	0	0	0	0	0	41
1955	0	0	7	8	3	3	2	2	0	0	0	0	25
1956	0	0	13	25	11	10	5	1	1	1	0	0	67
1957	1	0	10	31	12	5	2	2	6	0	0	0	69
1958	2	0	11	20	12	9	1	2	0	0	0	0	57
1959	0	0	11	19	14	2	3	1	0	0	0	0	50
1960	0	0	17	20	13	3	5	0	0	0	0	0	58
1961	2	0	18	28	11	9	5	1	1	0	0	0	75
1962	1	0	11	20	6	2	1	0	2	0	0	0	43
1963	0	0	28	30	14	4	2	3	1	0	0	0	82
1964	0	0	45	30	19	8	3	0	1	0	0	0	106
1965	0	0	56	45	16	5	0	0	0	1	0	0	123
1966	0	0	100	70	22	3	3	2	2	0	0	0	202
1967	0	0	88	67	16	8	4	3	1	0	0	0	187
1968	0	0	62	49	27	6	1	1	1	0	0	0	147
1969	0	0	78	65	21	13	4	0	1	0	0	0	182
1970	0	0	91	62	21	4	0	1	1	0	0	0	180
1971	0	0	86	45	17	8	0	0	1	0	0	0	157
1972	0	0	63	49	37	6	4	1	0	0	0	0	160
1973	0	0	53	52	20	2	0	0	0	0	0	0	127
1974	0	0	37	27	15	2	1	0	1	0	0	0	83
1975	0	0	87	68	30	5	2	3	1	0	0	0	196
1976	0	0	75	47	14	3	2	0	1	0	0	0	142
1977	0	0	125	78	21	11	1	1	1	0	0	0	238
1978	0	0	75	31	11	5	3	0	0	1	0	0	126
1979	0	0	87	33	14	4	3	2	1	0	0	0	144
1980	0	0	69	26	11	5	2	0	0	0	0	0	113
1981	0	0	80	23	14	2	0	2	1	0	0	0	122
1982	0	0	71	23	9	2	0	1	0	0	0	0	106
1983	0	0	89	30	13	3	3	1	2	0	0	0	141
TOTALS	18	0	1889	1585	893	334	153	84	53	14	5	0	5028

Table 5. Significant earthquakes of the Middle East, 1900-1983

Year	Mon	Da	Hr	Mn	Lat	Lon	Dep	Mag	Casual	Damage	Refs**	Location
1903	Mar	29	22	30	32.2N	35.5E		5.7	20	unknown	3,13	West Bank: Nablus
1903	Apr	28	23	46	39.1N	42.5E		6.3	2,200	unknown	3,13	Turkey: Malazgirt
1903	Sep	25	01	20	35.2N	58.2E		6.5	350	unknown	3,13	Iran: Kashbar
1905	Dec	04	12	20	38.0N	37.0E	60	7.0				Turkey
1907	Apr	13	17	57	36.5N	70.5E	260	7.0		unknown	10	Afghanistan
1908	Oct	23	20	14	36.5N	70.5E	220	7.0		moderate		Afghanistan
1909	Jan	23	02	48	33.4N	49.1E		7.3	5,500	unknown	3,10,13	Iran: Silakor
1909	Jul	07	21	39	36.5N	70.5E	60	7.6		limited	12,20	Afghanistan
1909	Jul	08	02	30	35.5N	72.5E			10	limited	4	W. Pakistan
1909	Oct	20	23	41	30.0N	68.0E	60	7.2	231	moderate	10,28	W. Pakistan
1911	Apr	04	15	49	36.5N	26.5E	140	7.0				Turkey
1911	Apr	18			31.3N	56.8E			60	unknown	9	Iran
1911	Jul	04	13	33	36.0N	70.5E	190	7.6		unknown		Afghanistan
1912	Aug	09	01	29	40.5N	27.0E	60	7.5	216	severe	13	Turkey
1913	Mar	24			27.5N	53.8E			11		9	Iran
1914	Feb	06	11	42	29.5N	65.0E	100	7.0				W. Pakistan
1914	Oct	03	22	07	37.7N	30.4E	60	7.1	few	severe	12	Turkey
1916	Jan	24	06	55	41.0N	37.0E	60	7.3				Turkey
1917	Apr	21	00	49	37.0N	70.5E	220	7.0				Afghanistan
1919	Nov	18	21	54	39.6N	27.7E		7.0		unknown	18	Turkey
1921	Aug	14	13	15	15.5N	40.5E		5.7		severe	14	Ethiopia
1921	Nov	15	20	36	36.5N	70.5E	215	8.1				Afghanistan
1922	Dec	06	13	55	36.5N	70.5E	230	7.5				Afghanistan
1923	May	25	22	21	35.2N	59.2E		5.7	2,200	unknown	3,13	Iran: Torbat
1923	Sep	17	07	09	35.5N	55.0E		6.5	157		9,13,15	Iran: Qaleh Jaq
1923	Sep	22	20	47	29.5N	56.4E		6.7	290	unknown	1,3,13	Iran: Sirjan
+1923	Sep	22	20	48	29.0N	56.5E		6.9	260		9,13,15	Iran: Qaleh Asgar
1924	Oct	13	16	17	36.0N	70.5E	220	7.3		unknown	4,13	Afghanistan
1925	Aug	07	06	46	38.1N	30.2E		5.7		severe	12,13,29	Turkey
1925	Dec	14			34.6N	58.1E		5.5	500		9,13	Iran
1926	Jun	26	19	46	36.5N	27.5E	100	8.1			13	Turkey
+1926	Jun	26	19	48	36.0N	27.5E	100	7.7				Turkey
+1926	Jul	26	19	46	36.5N	27.5E	100	8.3				Turkey
1926	Oct	22	19	59	40.7N	43.7E	7	5.7	355	extreme	13	Turkey
1927	Jul	11	13	04	32.2N	35.3E		6.0	268	unknown	3	Jordan
1928	Mar	30	09	42	38.1N	27.4E		6.2	170	severe	12,29	Turkey
1928	Aug	21	21	19	35.5N	59.0E	12	5.0	10		9	Iran
1929	Jan	22	14	42	11.5N	43.0E		5.2*		unknown	13	Djibouti
1929	Feb	01	17	14	36.5N	70.5E	220	7.1		severe	4,27	Afghanistan
1929	May	01	15	37	37.8N	57.8E	21	7.2	5,803	extreme	19	Iran
1930	May	06	22	34	38.1N	44.7E		7.5	1,360	unknown	3,30	Iran
1931	Aug	24	21	35	30.2N	67.7E		7.0		moderate	28	W. Pakistan
1931	Aug	27	15	27	29.5N	67.2E		7.4	200	moderate	28	W. Pakistan
1934	Jun	13	22	10	27.5N	62.5E	80	7.0				Iran
1935	Jan	04	14	41	40.5N	27.5E		6.2	5	moderate	12,29	Turkey
1935	Feb	25	02	51	36.0N	25.0E	33	7.1				Turkey
1935	Mar	05	10	27	36.3N	53.3E		6.0	60		9,15	Iran
1935	May	01	10	24	39.3N	40.6E		6.1	540	unknown	3	Turkey
1935	May	30	21	32	29.5N	66.7E		7.5	25,000	severe	27,28	W. Pakistan
1936	Jun	30	19	26	33.0N	60.0E			12		9,21	Iran
1937	Nov	14	10	58	36.5N	70.5E	260	7.2		moderate	27	Afghanistan
1938	Apr	19	10	56	39.1N	34.0E		6.8	800	unknown	20	Turkey
+1938	Apr	19	10	59	39.6N	33.7E		6.7	155	severe	12	Turkey
1939	Jan	02	04	35	36.3N	30.7E		5.3		severe	18	Turkey
1939	Nov	21	08	43	39.7N	40.4E		4.7*	13	moderate	12	Turkey

* Calculated value.
** Numbers refer to "Reference List" on page 13.
\+ Suspected duplicate with different or additional information.

Table 5. Significant earthquakes of the Middle East, 1900-1983 (cont.)

Year	Mon	Da	Hr	Mn	Lat	Lon	Dep	Mag	Casual	Damage	Refs**	Location
1939	Nov	21	11	02	36.3N	70.6E	220	6.9		moderate	4	Afghanistan
1939	Dec	26	23	57	39.5N	38.5E	5	7.9	30,000	extreme	8,20	Turkey
+1939	Dec	26	23	57	39.7N	39.5E		8.0		severe	12	Turkey
1940	Feb	20			38.4N	35.5E		5.7*	37	moderate	29	Turkey
1941	Feb	16	16	38	33.5N	58.6E		6.3	730	unknown	3	Iran
1941	Sep	10	21	53	39.5N	43.3E		6.0	430	unknown	3	Turkey
1942	Nov	15	17	01	39.2N	28.2E		5.2*	6	moderate	29	Turkey
1942	Nov	21	14	01	40.3N	34.6E		5.2*		severe	12	Turkey
1942	Nov	26	22	20	40.5N	34.0E		7.6	4,000	extreme	29	Turkey
1942	Dec	02	19	04	40.6N	35.0E		5.2*		severe	12	Turkey
1942	Dec	11	02	39	40.8N	35.1E		5.2*		severe	12	Turkey
1942	Dec	20	14	03	40.7N	36.8E		7.3	3,000	extreme	29	Turkey
+1942	Dec	20	14	03	40.0N	37.0E			1,000	extreme	31	Turkey
1943	Jan	20	15	32	40.8N	30.5E		6.6	285	unknown	3	Turkey
1943	Feb	28	12	54	36.5N	70.5E	210	7.0		unknown	4	Afghanistan
1943	Jun	20	15	32	40.8N	30.6E		6.2		moderate	12	Turkey
1943	Nov	26	22	20	41.0N	33.7E		7.6	4,020	unknown	3	Turkey
1943	Dec	05			40.0N	40.0E			550	severe	31	Turkey
1944	Feb	01	03	23	41.5N	32.4E		7.4	4,000	severe	12	Turkey
+1944	Feb	01	03	23	41.0N	33.0E			2,381	severe	31	Turkey
1944	Apr	05			36.8N	54.5E			70		9	Iran
1944	Oct	06	21	34	39.4N	26.7E		6.3*	30	moderate	12	Turkey
1945	Mar	20	07	59	37.4N	35.8E		4.7*	300	unknown	12,31	Turkey
1945	Jul	29	08	56	38.5N	43.3E		4.7*	300	severe	29	Turkey
1945	Nov	27	21	57	25.0N	60.5E		8.2	4,000	unknown	31	Iran
1945	Dec	21			38.0N	28.9E		5.7*		severe	12	Turkey
1946	May	31	03	12	40.0N	41.5E		6.0	1,300	severe	31	Turkey
1946	Jul	27	16	25	35.6N	45.8E		5.4		moderate	18	Iraq
1947	Aug	05	14	24	25.5N	63.0E	60	7.3		moderate	8	W. Pakistan
1947	Sep	23	12	28	33.0N	59.0E		6.8	412	moderate	23,31	Iran
1948	Feb	09	12	58	35.5N	27.0E	40	7.1		limited	31	Turkey
1948	Oct	05	20	12	37.5N	58.0E	60	7.1	10,000	extreme	13	Iran
1949	Mar	04	10	19	36.0N	70.5E	230	7.5		moderate	31	Afghanistan
1949	Aug	17	18	44	39.4N	40.9E		6.5	370	moderate	13	Turkey
1950	Jan	19	17	27	27.3N	53.2E			20	severe	13,31	Iran
1950	Feb	04	09	31	40.0N	40.0E			20	limited	13	Turkey
1951	Apr	08	21	38	36.6N	36.1E		6.0	50	limited	13	E. Medit.
1951	Aug	13	18	33	40.8N	33.4E		6.7	50	severe	20,31	Turkey
1952	Jan	03	06	03	39.5N	41.5E		5.6	94	moderate	20,31	Turkey
1952	Jun	03			39.8N	39.5E		4.7*	94	severe	29	Turkey
1952	Oct	22	17	00	36.5N	35.5E		5.0	20	severe	29	Turkey
1953	Jan	15	21	56	28.5N	52.3E			11		9,21	Iran
1953	Feb	12	08	15	35.0N	54.5E		6.5	973	severe	9,21	Iran
+1953	Feb	12	08	15	35.4N	55.1E		6.4	970	unknown	3	Iran
1953	Mar	18	19	06	40.0N	27.5E		7.3	1,103	moderate	13	Turkey
1953	Jun	18	05	44	41.4N	26.3E			37	moderate	29	Turkey
1953	Sep	10	04	05	35.0N	32.5E		6.5	40	moderate	3,31	Cyprus
1955	Jul	16	07	07	37.6N	27.2E		6.8	3	moderate	12,13	Turkey
1955	Sep	12	06	09	32.5N	29.6E		6.5	20	severe	13	E. Medit.
1956	Feb	20	20	31	40.0N	30.5E		5.8	4	moderate	13,31	Turkey
1956	Mar	16	19	32	35.5N	35.5E		5.8	148	unknown	3	Lebanon
1956	Mar	16	19	32	33.6N	35.6E	16	6.0	136	severe	13	Lebanon
1956	Jun	09	23	13	35.0N	67.5E	60	7.3	350	severe	31	Afghanistan
1956	Jul	09	03	11	37.0N	26.0E	60	7.6	53	severe	13,25	Turkey
1956	Oct	31	14	03	27.0N	54.5E		6.8	410	extreme	9	Iran

* Calculated value.
** Numbers refer to "Reference List" on page 13.
\+ Suspected duplicate with different or additional information.

Table 5. Significant earthquakes of the Middle East, 1900-1983 (cont.)

Year	Mon	Da	Hr	Mn	Lat	Lon	Dep	Mag	Casual	Damage	Refs**	Location
1957	Apr	23			33.4N	52.5E			16	unknown	9	Iran
1957	Apr	24	19	10	36.0N	28.5E		6.9		moderate	13	Turkey
1957	Apr	25	02	25	36.5N	28.6E	53	7.1	18	moderate	20	Turkey
+1957	Apr	25	02	25	36.6N	29.2E	50	7.1		severe	12	Turkey
1957	May	26	06	33	40.7N	30.9E		7.2	52	severe	13	Turkey
+1957	May	26	06	33	40.6N	31.2E		7.1	500	unknown	3	Turkey
1957	Jul	02	00	42	36.1N	52.7E	10	7.3	1,100	unknown	3,32	Iran
1957	Dec	13	01	45	34.3N	47.8E	40	7.2	1,200	unknown	3,11,13	Iran
1958	Jan	16	02	04	36.5N	53.0E			many	moderate	13	Iran
1958	Aug	16	19	13	34.3N	47.8E		6.8	137	moderate	9	Iran
1958	Sep	21	16	18	36.0N	49.0E			20	severe	13	Iran
1959	Apr	25	00	26	37.0N	28.7E		6.3		moderate	12	Turkey
1959	Dec	25	15	57	39.1N	41.6E		6.2	18	moderate	13,31	Turkey
1960	Apr	24	12	14	28.0N	54.5E		6.0	420	severe	9,13	Iran
1961	Jun	01	23	29	10.4N	39.9E	33	6.6	30	moderate	13	Ethiopia
1961	Jun	11	05	10	27.9N	54.5E		7.2	61	unknown	3	Iran
1961	Jun	27	00	49	33.5N	49.4E			5	moderate	13	Iran
1961	Oct	14	07	01	33.6N	48.1E	33		2	moderate	13	Iran
1962	Jul	06	23	05	36.8N	70.1E	210	7.0		limited	27	Afghanistan
1962	Sep	01	19	20	35.6N	49.8E	27	7.2	12,200	unknown	3,11	Iran
1962	Sep	04	22	59	39.9N	43.9E		5.5	1	moderate	12,27	Turkey
1962	Oct	05	20	02	35.2N	58.8E	33		5	moderate	13	Iran
1963	Mar	24	12	44	34.4N	47.8E	42	5.5		moderate	11,13	Iran
1963	Mar	31	02	27	37.0N	57.9E	33	7.0	4	moderate	13	Iran
1963	Sep	02	01	34	33.9N	74.7E	44	5.4	79	severe	13,31	S.W. Kashmir
1964	Jun	14	12	16	38.0N	38.5E		6.0	1	severe	12,13	Turkey
1964	Oct	06	14	31	40.3N	28.2E	10	7.0	36	severe	12,13	Turkey
1965	Feb	10	16	09	37.6N	47.1E	52	5.1	20	severe	13	Iran
1965	Mar	14	15	53	36.3N	70.7E	219	7.6		limited	13	Afghanistan
1965	Jun	21	00	21	28.1N	55.9E	33	5.3		severe	11,13	Iran
1966	Mar	07	01	16	39.1N	41.6E	38	6.0	10	severe	13	Turkey
1966	Jul	12	00	04	39.2N	41.6E	33	4.5	12	severe	31	Turkey
1966	Aug	01	21	02	30.0N	68.7E	33	7.0	2	moderate	31	Iran
1966	Aug	19	12	22	39.2N	41.6E	33	7.1	2,570	severe	7,31	Turkey
1967	Mar	28	02	41	19.9N	38.7E	27	7.4				Red Sea
1967	Jul	22	16	56	40.7N	30.7E	33	6.8	173	severe	7,13	Turkey
1967	Jul	26	18	53	39.5N	40.4E	33	6.2	110	severe	26	Turkey
1968	Apr	29	17	01	39.2N	44.3E	34	5.6	61	severe	9,26	Turkey
1968	Aug	31	10	47	34.0N	59.0E	13	7.3	12,100	extreme	13,26	Iran
1968	Sep	04	23	24	33.9N	58.2E	15	5.4		severe	26	Iran
1968	Sep	24	04	19	39.2N	40.1E	14	5.1	2	severe	26	Turkey
1969	Jan	03	03	16	37.1N	57.8E	11	5.6	50	moderate	26,31	Iran
1969	Mar	28	01	48	38.6N	28.4E	9	5.9	53	severe	7,16,26	Turkey
1969	Mar	29	09	15	11.9N	41.1E	35	5.9	24	severe	13,16	Ethiopia
1969	Mar	31	07	15	27.6N	33.9E	33	6.1	3	moderate	16,27	Egypt
1969	Nov	07	18	33	27.8N	60.1E	35	7.0		unknown	22,26	Iran
1970	Mar	14	01	51	38.5N	44.7E	23	5.3	5	moderate	13	Turkey
1970	Mar	28	21	02	39.2N	29.5E	20	7.2			7	Turkey
1970	Jul	30	00	52	37.8N	55.8E	22	5.7	176	severe	9,16,26	Iran
1971	May	22	16	43	38.8N	40.5E	3	7.0	995	severe	26	Turkey
1971	Aug	09	02	54	36.3N	52.7E	27	5.3	1	moderate	13	Iran
1972	Apr	10	02	06	28.4N	52.8E		6.8	5,400	unknown	2,3	Iran
1974	Jul	30	05	12	36.4N	70.8E	211	7.0		unknown	27	Afghanistan
1975	Mar	07	07	04	27.4N	56.2E	27	6.1	7	moderate	13	Iran
1975	Sep	06	09	20	38.4N	40.7E	26	6.7	2,300	severe	13	Turkey

* Calculated value.
** Numbers refer to "Reference List" on page 13.
\+ Suspected duplicate with different or additional information.

Table 5. Significant earthquakes of the Middle East, 1900-1983 (cont.)

Year	Mon	Da	Hr	Mn	Lat	Lon	Dep	Mag	Casual	Damage	Refs**	Location
1975	Oct	03	05	14	30.3N	66.3E	11	7.0		unknown	27	Iran
1976	Mar	25	11	55	41.1N	43.0E	18	4.8	1	moderate	13	Turkey
1976	Apr	02	16	58	39.3N	43.6E	46	4.6	4	unknown	13	Turkey
1976	Apr	29	22	18	40.8N	42.8E	44	5.5	4	moderate	13	Turkey
1976	Jul	09	09	34	38.3N	40.4E	33	4.2	1	unknown	31	Turkey
1976	Aug	19	01	12	37.7N	28.8E	3	5.0	4	unknown	31	Turkey
1976	Nov	07	04	00	33.8N	59.1E	13	6.2	17	severe	31	Iran
1976	Nov	24	12	22	39.1N	44.0E	36	7.3	5,000	severe	13	Turkey
1977	Mar	21	21	18	27.6N	56.3E	29	7.0	167	severe	9,31	Iran
1977	Mar	25	02	39	38.5N	40.0E	21	5.2	30	severe	13	Turkey
1977	Apr	06	13	36	31.9N	50.6E	41	5.9	348	unknown	9,13	Iran
1977	May	26	01	35	38.9N	44.3E	37	5.4	3	severe	13	Turkey
1977	Dec	19	23	34	30.9N	56.4E	31	5.8	584	severe	22	Iran
1978	Sep	16	15	35	33.2N	57.4E	33	7.7	15,000	severe	4,9	Iran
1978	Dec	14	07	05	32.1N	49.6E	40	6.2	76	moderate	16,33	Iran
1979	Jan	16	09	50	33.9N	59.5E	33	6.7	200	moderate	13,33	Iran
1979	Nov	27	17	10	34.1N	59.9E	10	7.3	71	severe	5,13,16	Iran
1980	Jul	22	05	17	37.2N	50.2E	62	5.4	1	moderate	32	Iran
1980	Dec	19	01	17	34.5N	50.7E	32	5.7	26	severe	32	Iran
1981	Jul	28	17	22	30.0N	57.8E	33	7.3	1,500	extreme	32	Iran
1982	Dec	13	09	13	14.7N	44.3E	10	5.7	1,900	extreme	6,32	Yemen (Sanaa)
1982	Dec	16	00	41	36.2N	69.1E	35	6.6	500	moderate	32	Afghanistan
1983	Mar	25	11	58	36.0N	52.3E	33	5.1	30	limited	32	Iran
1983	Apr	18	11	00	27.8N	62.1E	64	7.1				S. Iran
1983	Jul	05	12	01	40.3N	27.2E	10	6.1	5	moderate	32	Turkey
1983	Jul	22	02	41	36.8N	49.1E	61	5.0	3	severe	11,32	Iran
1983	Oct	30	04	12	40.2N	42.3E	33	6.9	1,400	extreme	32	Turkey
1983	Dec	30	23	53	36.4N	70.7E	154	7.2	12	moderate	13	Hindu Kush

** Numbers refer to "Reference List" on page 13.

Table 5. Significant earthquakes of the Middle East, 1900-1983 (cont.)
References (by number for significant earthquake list)

1. Abe, K., 1981: Magnitudes of large shallow earthquakes from 1904 to 1980, Physics of the Earth and Planetary Interiors, v. 27, p. 72-92.
2. Abe, K. and S. Noguchi, 1983: Determination of magnitude for large shallow earthquakes 1898-1917, Physics of the Earth and Planetary Interiors, v. 32, p. 45-59.
3. Ambraseys, N.N., 1978: Middle East--a reappraisal of seismicity, Quarterly Journal of Engineering Geology, The Geological Society, London, v. 2, p. 19-32.
4. Ambraseys, N.N., G. Lensen, and A. Moinfar, 1975: The Pattan Earthquake of December 1974, UNESCO Technical Report RP/1975-1976/2.222.3, Paris.
5. Ambraseys, N.N., and C.P. Melville, 1982: A History of Persian Earthquakes, Cambridge University Press, Cambridge, United Kingdom, 219 pp.
6. Ambraseys, N.N., and C.P. Melville, 1983: Seismicity of Yemen, Nature, v. 303, p. 321-323.
7. Aytun, A., May 14, 1971: Experience Gained from Recent Earthquakes in Turkey, Working Paper 7, 20 pp.
8. Bath, M., 1978: Introduction to Seismology, Halstead Press.
9. Berberian, M., 1979: Tabas-e-Golshan (Iran) Catastrophic Earthquake of 16 September 1978; A Preliminary Report, Dept. of Geodesy and Geophysics, University of Cambridge, Permagon Press, Cambridge, United Kingdom, p. 207-219.
10. British Association for the Advancement of Science, 1903-1919: Annual Report of the Seismological Committee.
11. Chandra, Umesh, 1984: Focal mechanism solutions for earthquakes in Iran, Physics of the Earth and Planetary Interiors, v. 34, p. 9-16.
12. Ergin, K., U. Guclu, and U. Hz, 1967: A Catalog of Earthquakes for Turkey and Surrounding Area (11 A.D. to 1964 A.D.), Istanbul, Turkey.
13. Ganse, R.A., and J.B. Nelson, July 1981: Catalog of Significant Earthquakes 2000 B.C.-1979, Report SE-27, World Data Center A for Solid Earth Geophysics, U.S. Dept. of Commerce, Boulder, CO, 154 pp.
14. Gouin, P., 1979: Earthquake History of Ethiopia and the Horn of Africa, Monograph IDRC-118, Geophysical Observatory, University of Addis Ababa, Addis Ababa, Ethiopia, 257 pp.
15. Gutenberg, B., and C. Richter, 1965: Seismicity of the Earth and Associated Phenomena, Princeton University Press, second edition; facsimile of 1954 edition published in 1965 by Hafner Publishing Co., New York, 310 pp.
16. International Seismological Centre, 1969-1982: Bulletin of the International Seismological Centre, Newbury, United Kingdom.
17. International Seismological Centre, 1979: Felt and Damaging Earthquakes 1976, No. 1, Newbury, United Kingdom, 49 pp.
18. Karnik, V., 1969: Seismicity of the European Area, D. Riedel Publishing Co., Dordrecht, The Netherlands.
19. Kondorskaya, N.V., and N.V. Shebalin, 1977: New Catalog of Strong Earthquakes in the Territory of the USSR: Ancient Times to 1975 (in Russian), Academy of Sciences, Moscow (English translation, updated through 1977, available as Report SE-31, World Data Center A for Solid Earth Geophysics, Boulder, CO, 608 pp.).
20. Lomnitz, C., 1974: Developments in Geotectonics 5, Global Tectonics and Earthquake Risk, American Elsevier Publishing Co., Inc., New York, 320 pp.
21. Meyers, H., and C.A. von Hake, 1976: Earthquake Data File Summary, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, 59 pp.
22. Nabavi, M.S., December 1979: Seismic activity in Iran during 1963-1970, Journal of the Earth and Space Physics, Institute of Geophysics, Tehran University Press, v. 8, No. 172, p. 13-63.
23. O'Connell, D.J.K., 1947: Catalogue of major shallow earthquakes, March 1909 to December 1911, reprinted for the Journal of Proceedings of the Royal Society of New South Wales, LXXX, p. 147-150.
24. Richter, C.F., 1958: Elementary Seismology, W.H. Freeman & Co., San Francisco, 768 pp.
25. Rothe, J.P., 1969: The Seismicity of the Earth 1953-1965, UNESCO, Paris, 336 pp.
26. Rothe, J.P., 1967-1974: Annual Summary of Information on Natural Disasters 1966-73, Nos. 1-8, UNESCO, Paris.
27. Seismological Society of America, 1911-1985: Seismological notes, Bulletin of the Seismological Society of America.
28. Singh, K., 1966: Earthquakes in India and neighborhood, Indian Journal of Meteorology and Geophysics (Mausam), v. 17, p. 528.
29. Tabban, A., December 1970: Seismicity of Turkey, Individual Studies by Participants at the International Institute of Seismology and Earthquake Engineering, Tokyo, v. 6, p. 59-74.
30. Tchalenko, S.S., and M. Berberian, 1974: The Salmas (Iran) earthquake of May 6, 1930, Annali di Geofisica, v. 27, p. 151-212.
31. U.S. Department of Commerce and U.S. Department of the Interior, 1941-1979: United States Earthquakes, annual publication available from Open-File Services Section, Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225.
32. U.S. Geological Survey, 1980-1983: Preliminary Determination of Epicenters (PDE).
33. U.S. Geological Survey, January 28, 1980: Significant Earthquakes of the World 1979, PDE No. 7-80.

Table 6. Magnitude-magnitude-intensity relations for the Middle East

Relation	Standard Deviation	No. of Events Used
$M_S = 1.604\ m_b - 3.374$	0.491	405
$M_S = 1.009\ M_O - 0.281$	0.303	42
$M_S = 1.069\ M_L - 0.524$	0.480	57
$m_b = 0.420\ M_S + 3.092$	0.251	405
$m_b = 0.692\ M_L + 1.603$	0.410	107
$M_L = 0.735\ m_b + 1.226$	0.423	107
$M_L = 0.626\ M_S + 1.995$	0.367	57
$M_L = 0.500\ I_O + 1.361 \log h - 0.133$	0.440	438
$M_L = 0.504\ I_O + 1.580$	0.600	438
$I_O = 1.021\ M_L + 1.754$	0.848	438

Magnitude-Magnitude Relations

Magnitude values reported are m_b, M_s, M_o, and M_L. For the purpose of the seismicity map compilation, all these values were converted into an approximate M_s. Study of recurrence rates and earthquake risk evaluations usually makes use of the local magnitude (M_L) and the intensity (I_o). Consequently, relations between all these parameters were evaluated using the linear regression approach.

Normally, a magnitude value based on body waves is different from that based on surface waves for the same earthquake. This difference is due to the irregular distribution of energy in the spectrum of seismic waves. It has been noted by Gutenberg and Richter (1954) that the difference between m_b and M_L is a function of magnitude. It follows that the magnitude scales based on surface and on body waves are not consistent with each other.

Many investigators have established m_b/M_L and m_b/M_s relations for different parts of the world. Richter (1958) gives these relations in the form

$$m_b = 0.63\ M_s + 2.5 \tag{1}$$

$$m_b = 17 + 0.8\ M_L - 0.01\ M_L^2. \tag{2}$$

Bath (1978) gives a relation in the form

$$m_b = 0.56\ M_s + 2.9. \tag{3}$$

Karnik (1969) introduces a range of complex relations for magnitudes derived from a variety of waves--P, PP, S, and LH. Willis and others (1974), comparing data from 339 earthquakes, find:

$$m_b = 0.48\ M_L + 2.43 \tag{4}$$

$$m_b = 4.40 - 0.48\ M_L + 0.11\ M_L^2 \tag{5}$$

$$M_s = 1.33\ m_b - 1.91 \tag{6}$$

$$M_s = 8.33 - 2.59\ m_b + 0.37\ m_b^2. \tag{7}$$

Brazee (1980), comparing data from 95 shocks in the United States, obtained the relation

$$M_L = 1.34\ m_b - 1.71. \tag{8}$$

In view of the variety of results given by different authors for different parts of the world, and the difficulty of choosing any of the values to convert into M_s, we decided to use the data available in our file for the study region to obtain relations between M_s and m_b, M_s and M_o, M_s and M_L, and m_b and M_L (Table 6). Plots representing these relations are given in Figs. 2-7. They were used to calculate values of parameters not reported for a given earthquake. In this way, all earthquakes included in the present

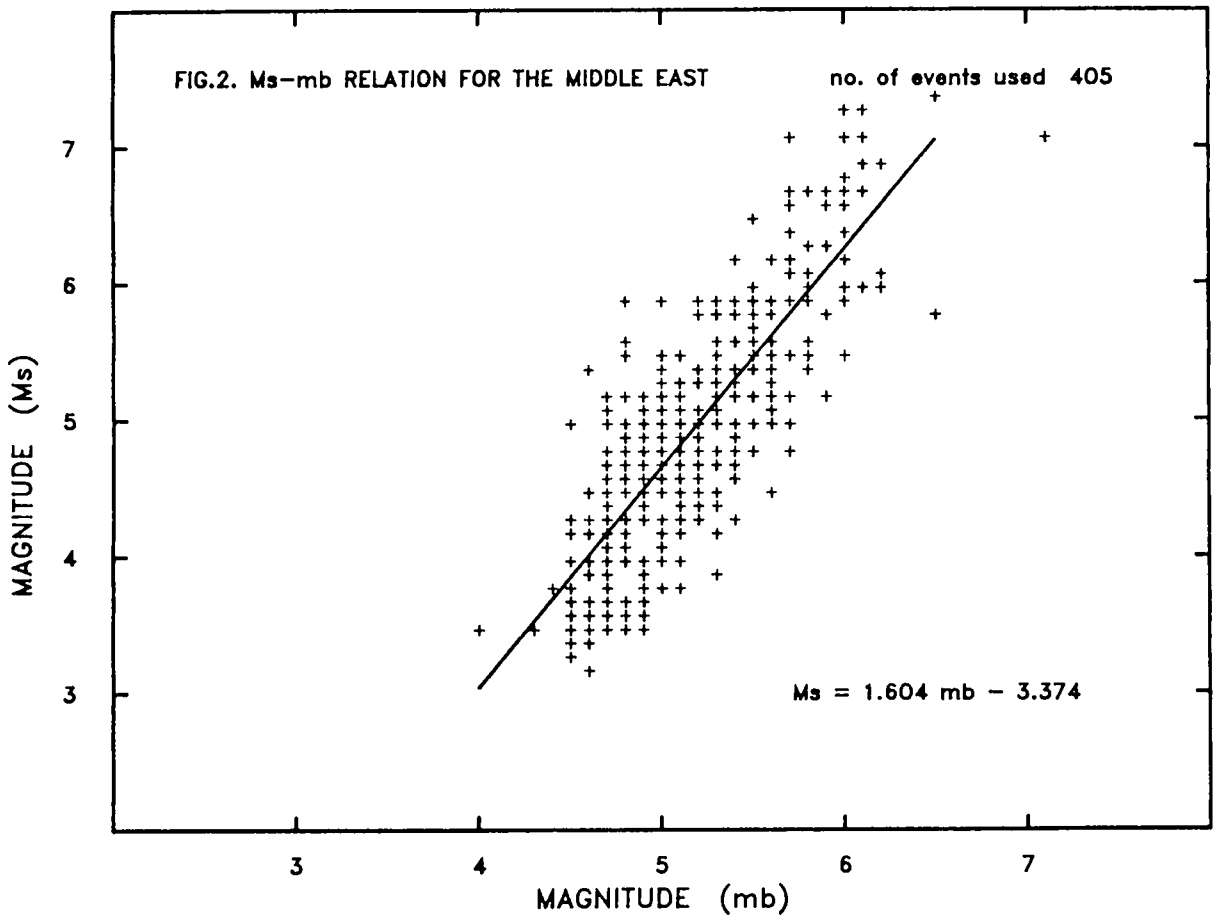


FIG.2. Ms-mb RELATION FOR THE MIDDLE EAST
no. of events used 405
Ms = 1.604 mb - 3.374
MAGNITUDE (Ms)
MAGNITUDE (mb)
3
4
5
6
7

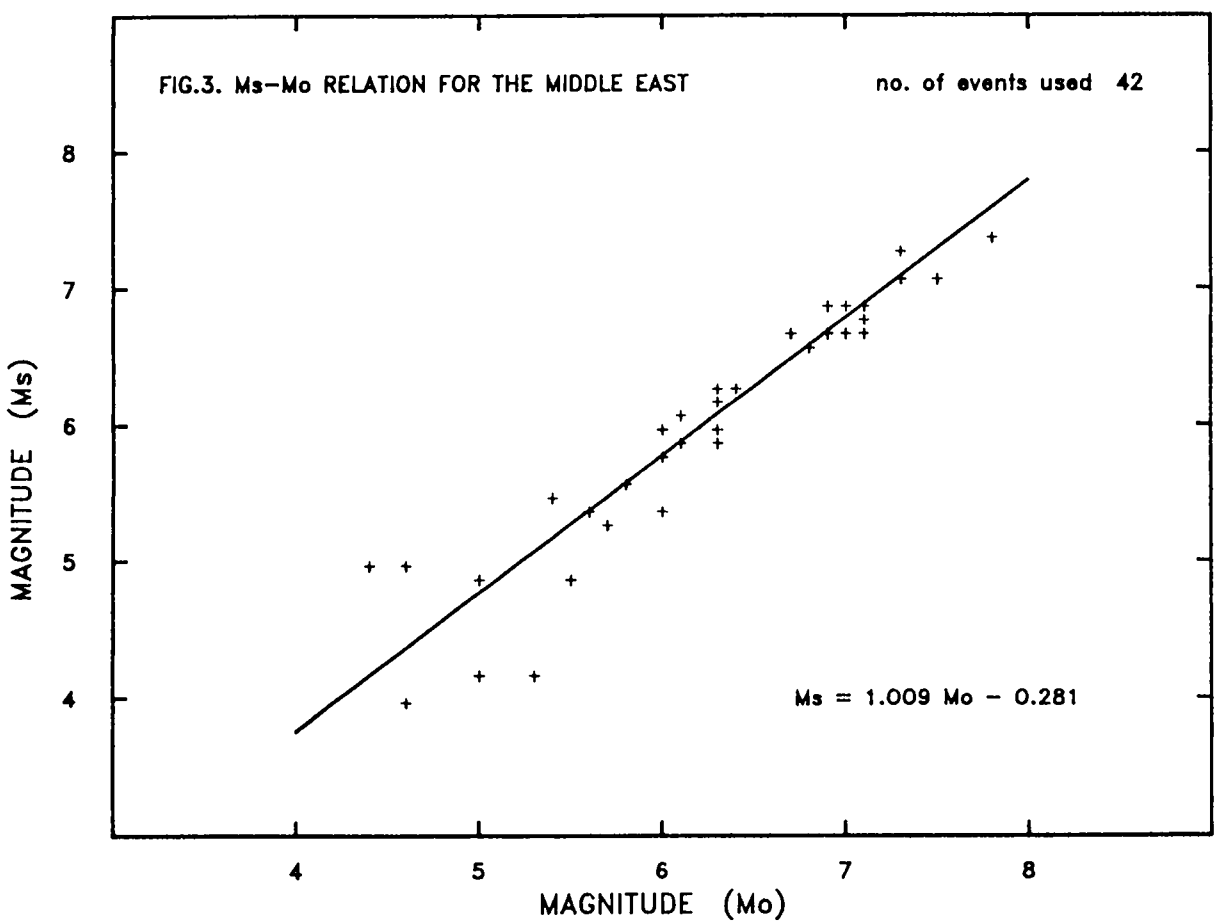


FIG.3. Ms-Mo RELATION FOR THE MIDDLE EAST
no. of events used 42
Ms = 1.009 Mo - 0.281
MAGNITUDE (Ms)
MAGNITUDE (Mo)
4
5
6
7
8

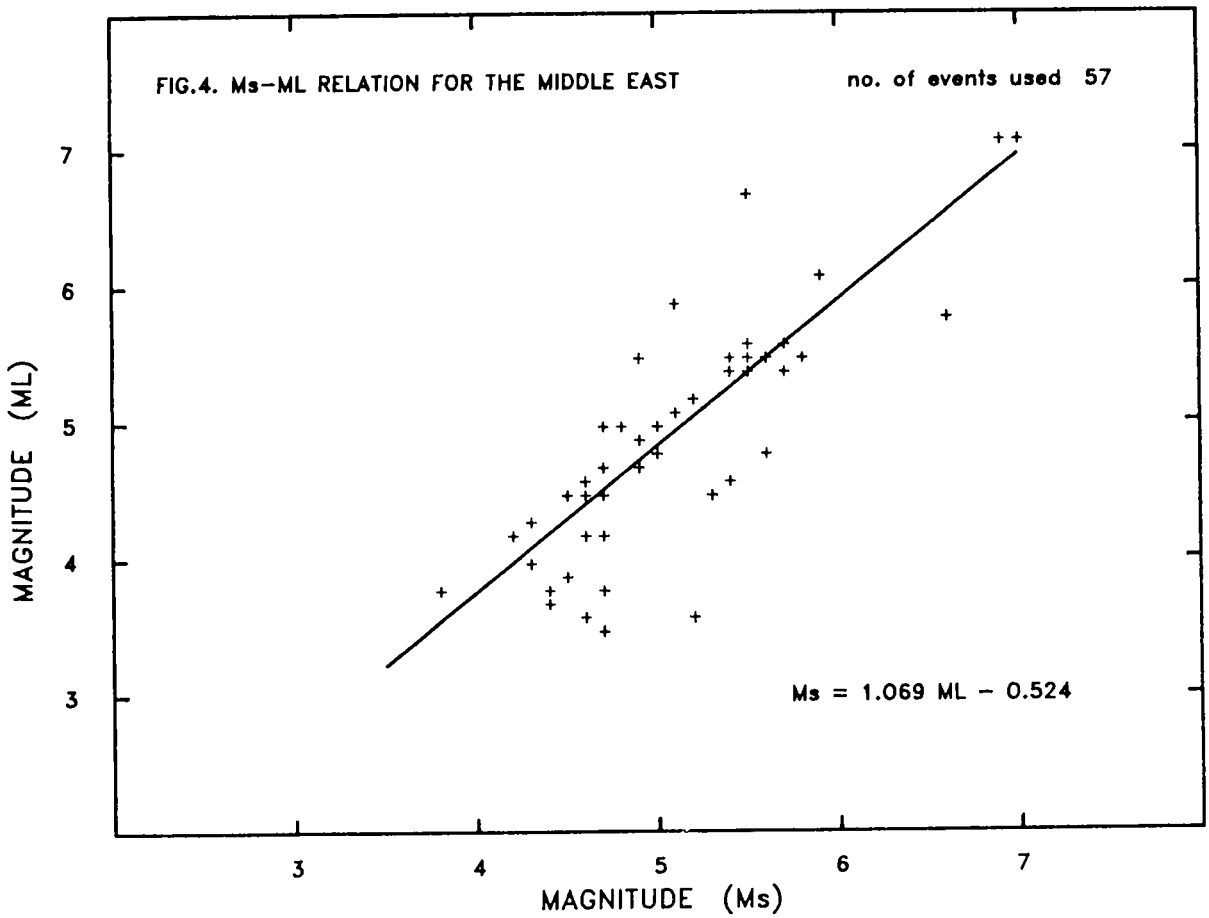


FIG.4. Ms–ML RELATION FOR THE MIDDLE EAST
no. of events used 57
Ms = 1.069 ML – 0.524
MAGNITUDE (ML)
MAGNITUDE (Ms)
3
4
5
6
7

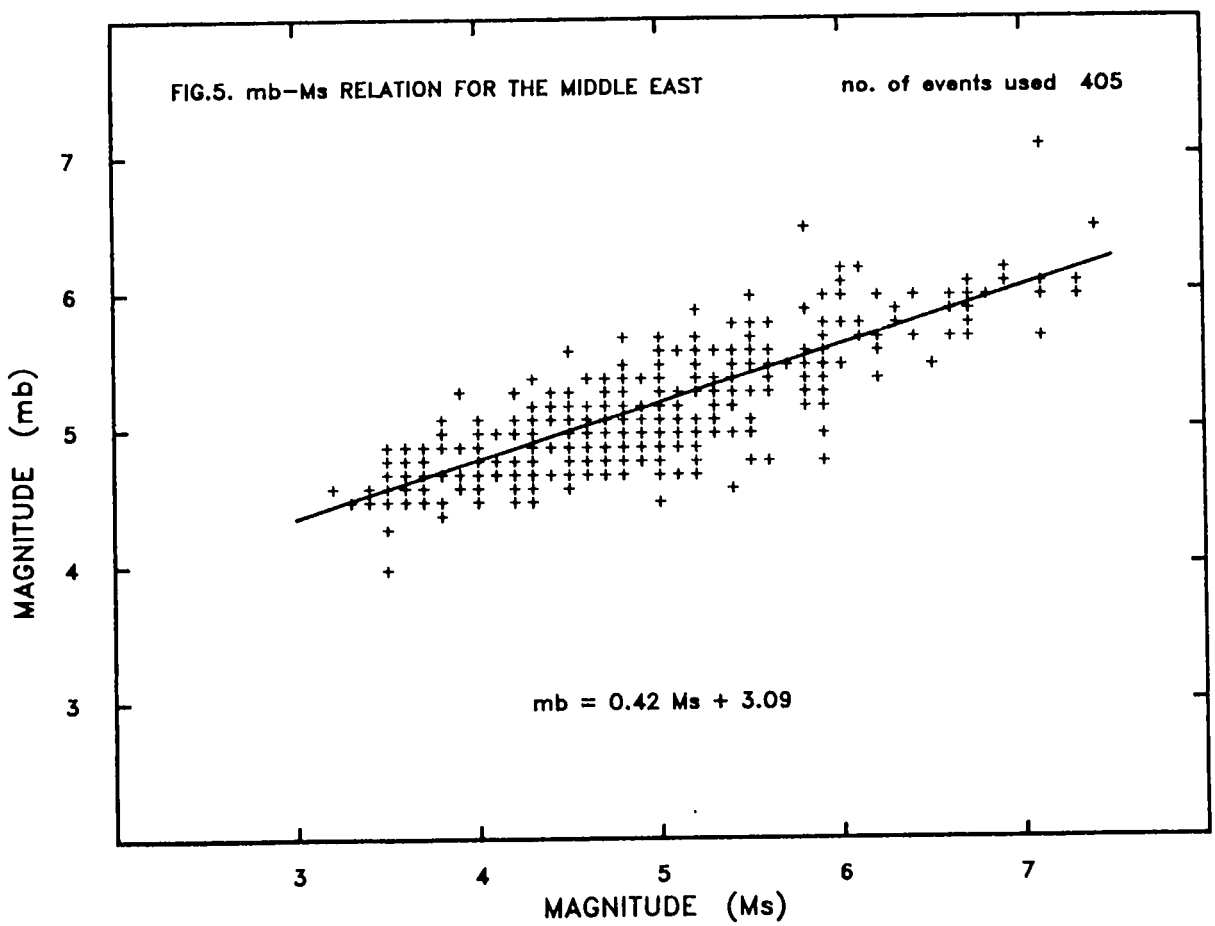


FIG.5. mb–Ms RELATION FOR THE MIDDLE EAST
no. of events used 405
mb = 0.42 Ms + 3.09
MAGNITUDE (mb)
MAGNITUDE (Ms)
3
4
5
6
7

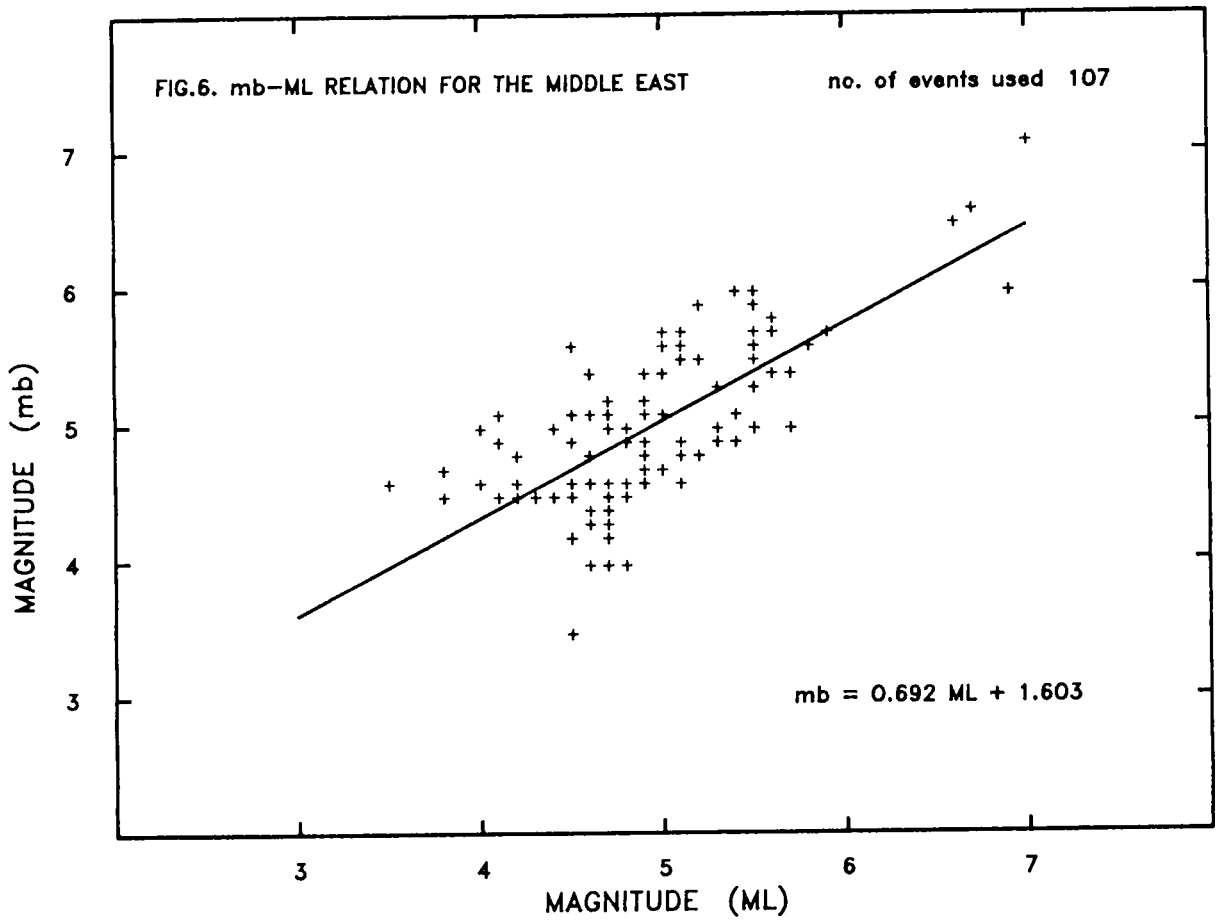


FIG.6. mb–ML RELATION FOR THE MIDDLE EAST
no. of events used 107
mb = 0.692 ML + 1.603
MAGNITUDE (mb)
MAGNITUDE (ML)
3
4
5
6
7

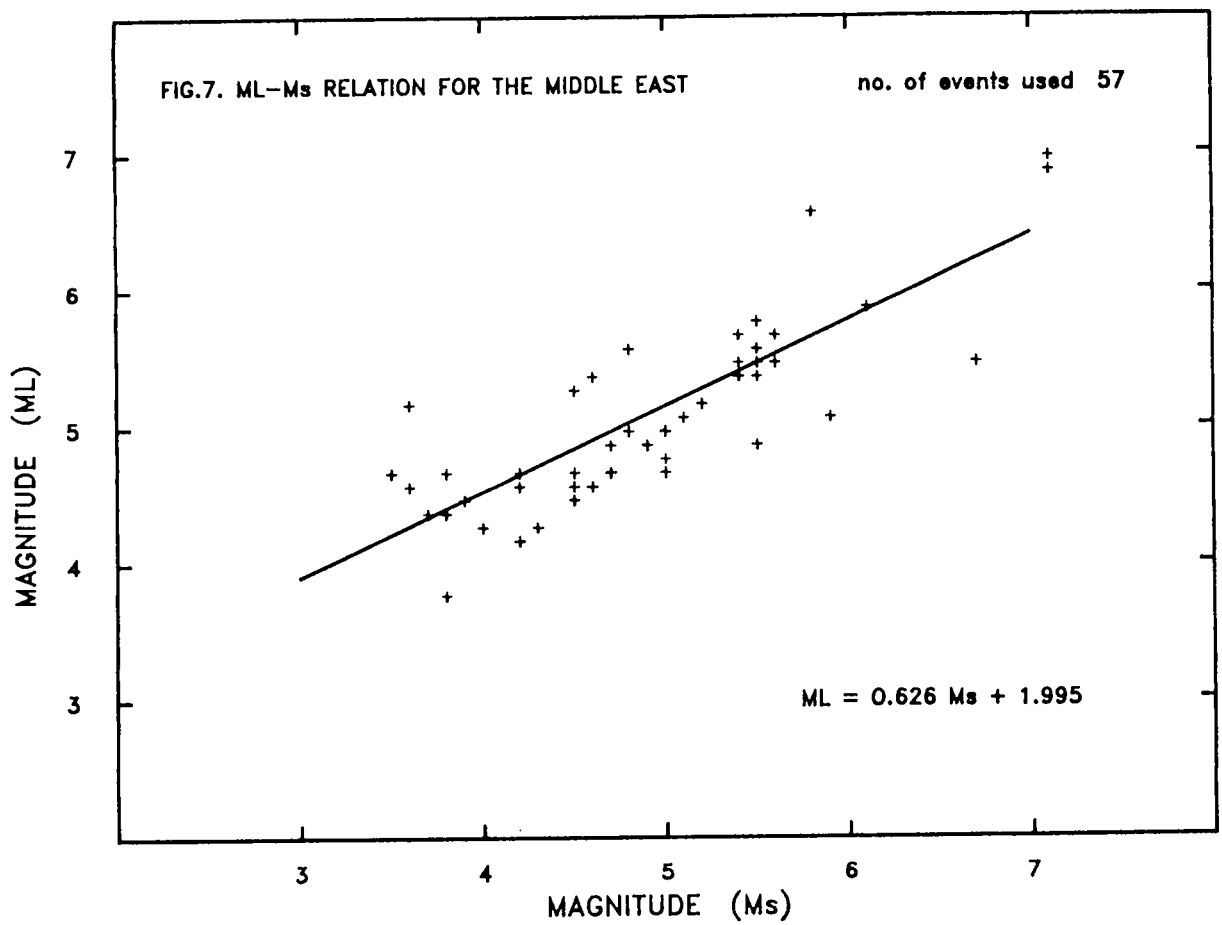


FIG.7. ML–Ms RELATION FOR THE MIDDLE EAST
no. of events used 57
ML = 0.626 Ms + 1.995
MAGNITUDE (ML)
MAGNITUDE (Ms)
3
4
5
6
7

catalog have either reported or calculated magnitude values for m_b, M_S, and M_L. Magnitude values M_S or m_b were calculated using the following equations:

$$M_S = 1.604\ m_b - 3.374 \tag{9}$$

$$M_S = 1.009\ M_0 - 0.281 \tag{10}$$

$$M_S = 1.069\ M_L - 0.524 \tag{11}$$

$$m_b = 0.420\ M_S + 3.092 \tag{12}$$

$$m_b = 0.692\ M_L + 1.603. \tag{13}$$

M_L -I_0 -h Relations

For a uniform classification of earthquakes included in this catalog, the relation between the instrumental quantity M_L and the macroseismic quantity I_0 was determined. The focal depth h is usually considered when establishing such relations. The general form of these relations is

$$M_L = a\ I_0 + b \log h + c \tag{14}$$

or simply

$$M_L = a\ I_0 + c. \tag{15}$$

Relations of these kinds were determined for different parts of the world (Shebalin, 1959; Aivazov, 1961; Karnik, 1969; Ben-Menahem, 1979; Brazee, 1976; Chiburis, 1981; and Gutenberg and Richter, 1948). Values of a, b, and c in the determined relations show large scattering. The value of a is relatively constant between 0.5 and 0.8 (Karnik, 1969).

In the present catalog, 438 earthquakes had reported values for M_L and I_0. These values are used to derive a relation between M_L and I_0 for the Middle East. A relation that includes h was obtained in the form

$$M_L = 0.5\ I_0 + 1.36 \log h - 0.133 \pm 0.44. \tag{16}$$

The simple relation in which the depth of earthquakes is not considered was obtained in the form

$$M_L = 0.5\ I_0 + 1.58. \tag{17}$$

Plots showing these relations are given in Figs. 8 and 9. These relations were used to calculate M_L when I_0 was available, and vice versa.

Magnitude-Frequency Relations

Magnitude versus frequency has become a basic relation in statistical seismology. Its original form proposed by Gutenberg and Richter (1954) is

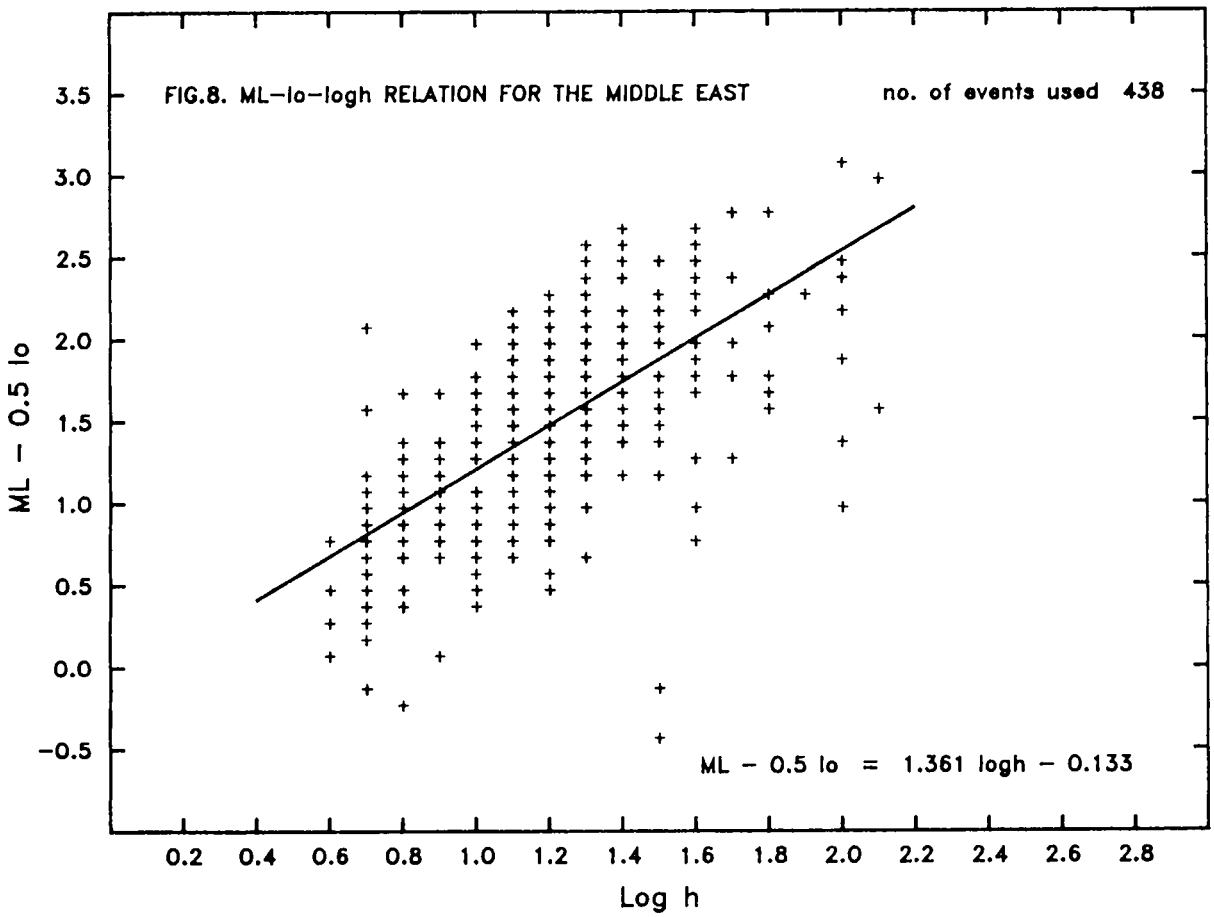


FIG.8. ML–Io–logh RELATION FOR THE MIDDLE EAST
no. of events used 438
ML – 0.5 Io = 1.361 logh – 0.133
ML – 0.5 Io
Log h
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
–0.5
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8

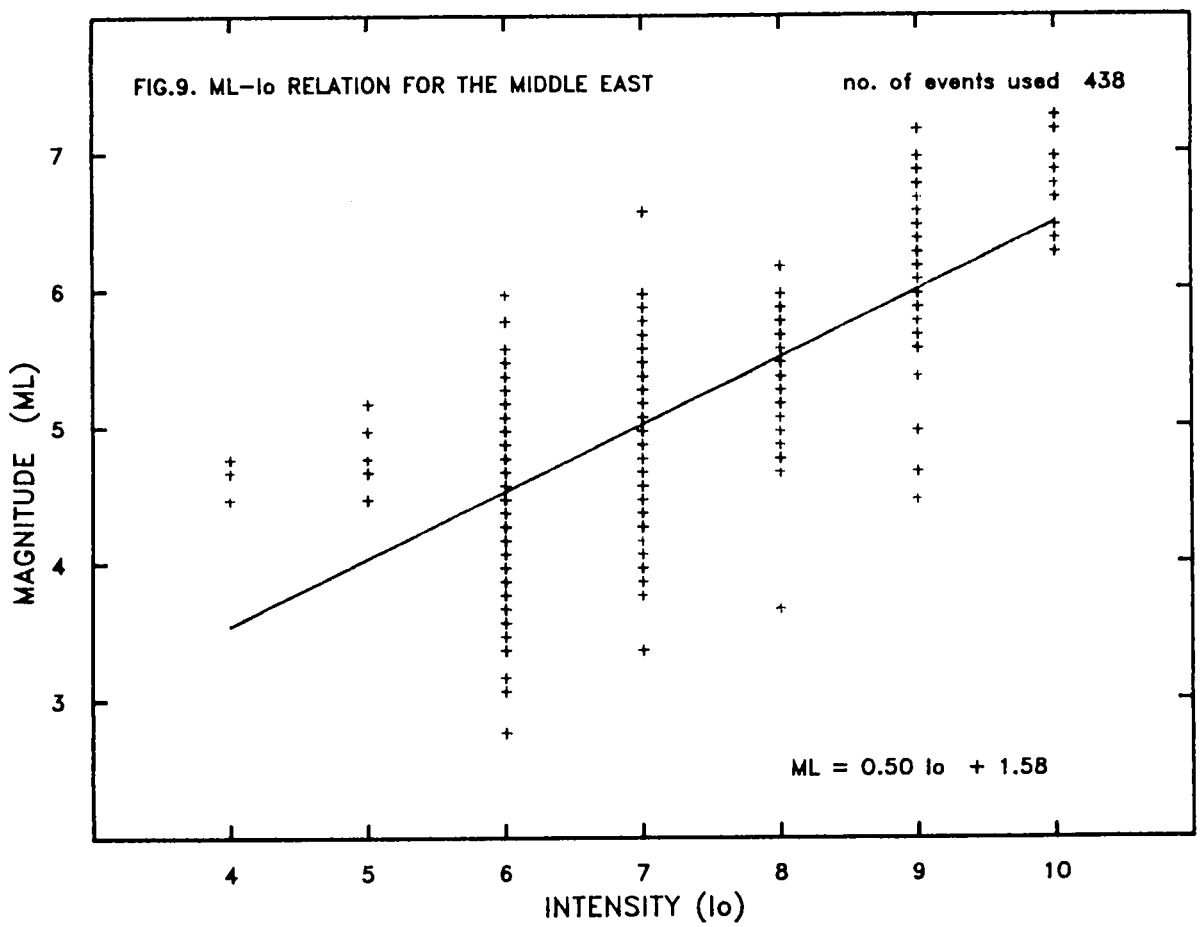


FIG.9. ML–Io RELATION FOR THE MIDDLE EAST
no. of events used 438
ML = 0.50 Io + 1.58
MAGNITUDE (ML)
INTENSITY (Io)
7
6
5
4
3
4
5
6
7
8
9
10

$$\log N = a + b\,(8 - M_L). \qquad (18)$$

However, many authors express the magnitude-frequency relation in the form (Karnik, 1969)

$$\log N = a + b\,M_L. \qquad (19)$$

The constant a depends on the period of observation, the size of the investigated area, and on the level of seismicity. The constant b is assumed to be related to the geologic age of the seismotectonic zone (Miyamura, 1962). Values of b determined for the USSR were found to vary between 0.5 and 1.2, and for the Caucasus, between 0.9 and 1.2 (Solov'ev, 1961). For three zones in Japan, b was found to vary between 0.66 and 1.06 (Tsuboi, 1952). On a worldwide scale, b was found in the range 0.4-1.8. High b-values of 1.0-1.8 have been found in the Circum-Pacific and Alpine orogenic zones (including island arcs); medium b-values of 0.6-0.7 correspond to continental rift zones and platform-block zones; low b-values are typical to old shield masses (Miyamura, 1962).

Recurrence-rate relations have been determined for M_L and I_0 for the Middle East during the period covered by this catalog (1900-1983). (See Figs. 10 and 11.) Relations were derived by using all earthquakes listed in the catalog. The obtained relations are given in the form

$$\text{Log } N\,(M_L) = 7.73 - 1.306\,M_L \qquad (20)$$

$$\text{Log } N\,(I_0) = 8.44 - 0.98\,I_0 \qquad (21)$$

where N is the cumulative number of earthquakes per year with magnitude $\geq M_L$ or intensity$\geq I_0$. The value of b given by equation (20) is found within the high value range that is related to young orogenic belt zones. On the average, this could be true because the Middle East covers seismotectonic zones ranging from spreading centers (e.g., the Red Sea Rift) to young subduction zones (e.g., eastern Mediterranean and western Iran).

The mean recurrence rate of earthquakes of a given magnitude M_L or intensity I_0 could be calculated using equations (20) and (21). For M_L, the following relation may be used:

$$t(M_L) = 10^{1.306\,M_L - 7.73} \text{ years}. \qquad (22)$$

This equation gives a mean recurrence period of 25 years for events of magnitude $M_L \geq 7.0$ within the considered period.

The distributions of the number of earthquakes per year (Fig. 12) and of the cumulative number of earthquakes (Fig. 13) in the Middle East during 1900-1983 show no important temporal behavior. The increased number of earthquakes after 1960 is no doubt due to increased recording capability and number of recording stations all over the world. The present catalog is more complete for the last 20 years, particularly for events of lower magnitude.

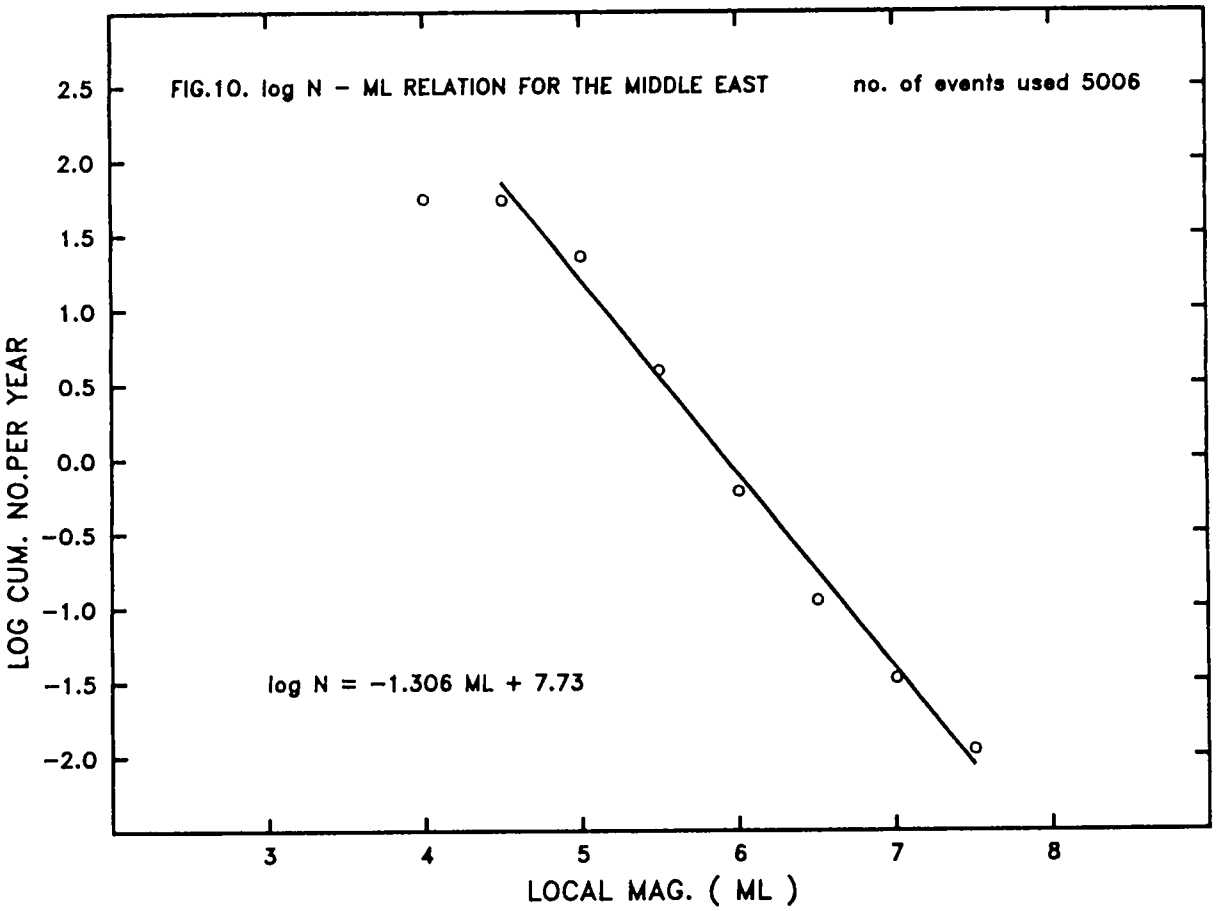


FIG.10. log N – ML RELATION FOR THE MIDDLE EAST
no. of events used 5006
log N = −1.306 ML + 7.73
LOG CUM. NO.PER YEAR
LOCAL MAG. (ML)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
3
4
5
6
7
8

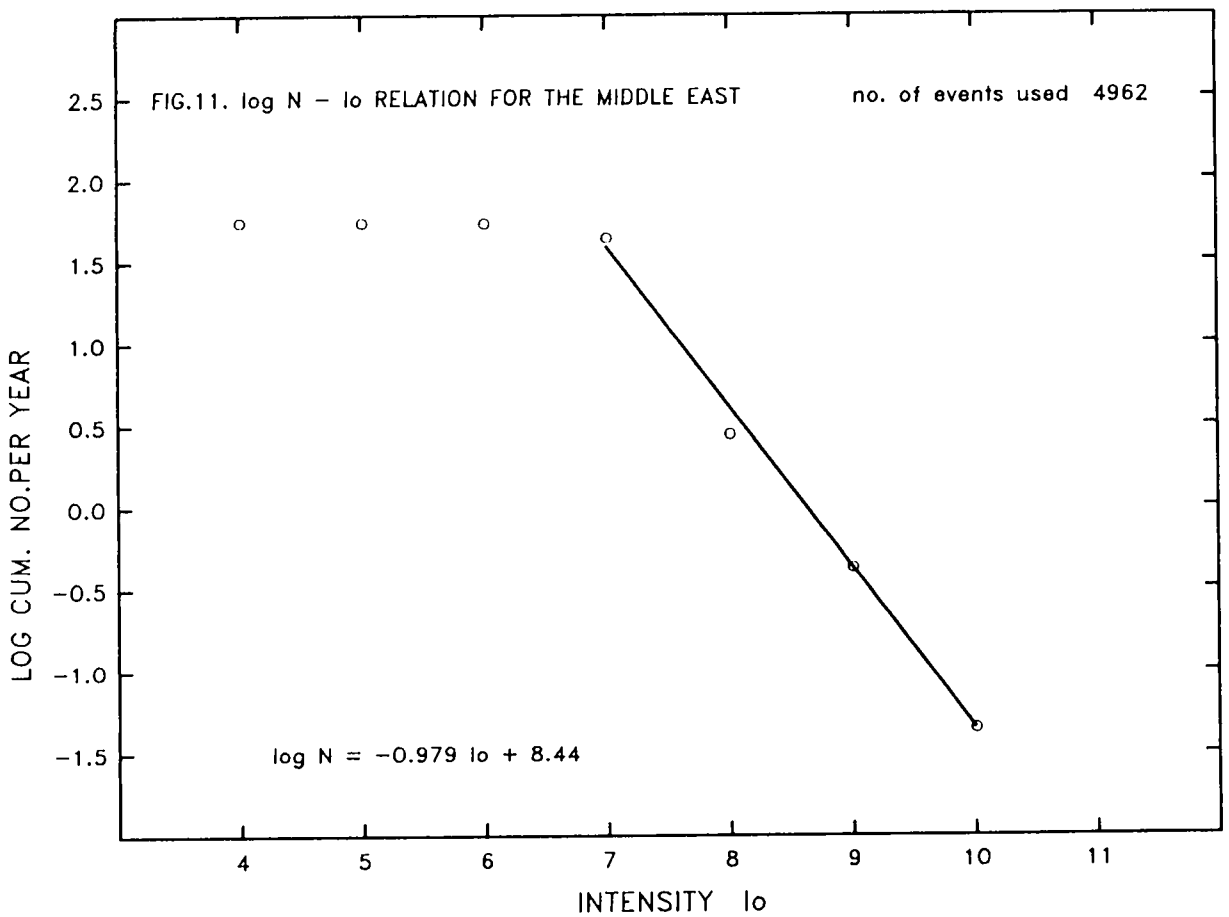


FIG.11. log N – Io RELATION FOR THE MIDDLE EAST
no. of events used 4962
log N = −0.979 Io + 8.44
LOG CUM. NO.PER YEAR
INTENSITY Io
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
4
5
6
7
8
9
10
11

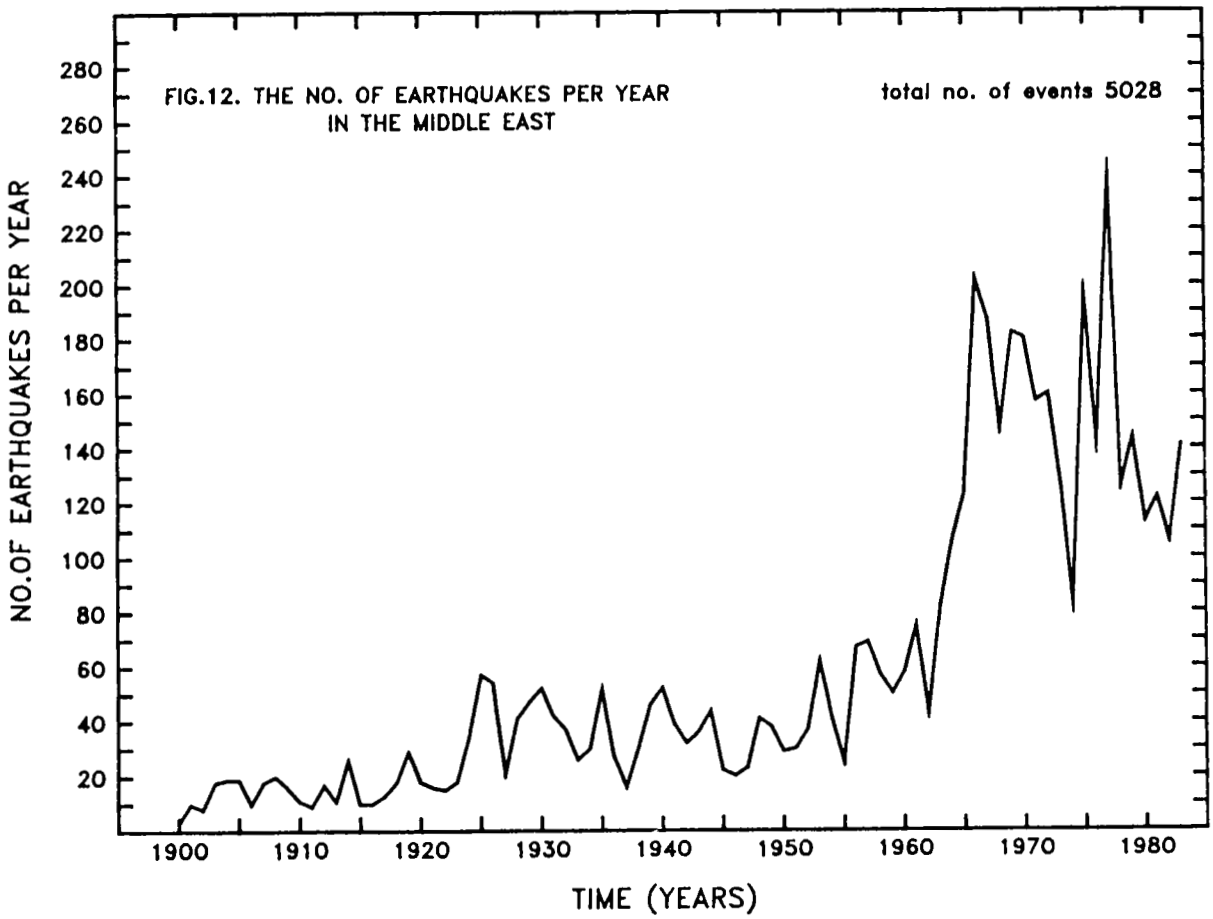


FIG.12. THE NO. OF EARTHQUAKES PER YEAR
IN THE MIDDLE EAST
total no. of events 5028
NO.OF EARTHQUAKES PER YEAR
280
260
240
220
200
180
160
140
120
100
80
60
40
20
1900
1910
1920
1930
1940
1950
1960
1970
1980
TIME (YEARS)

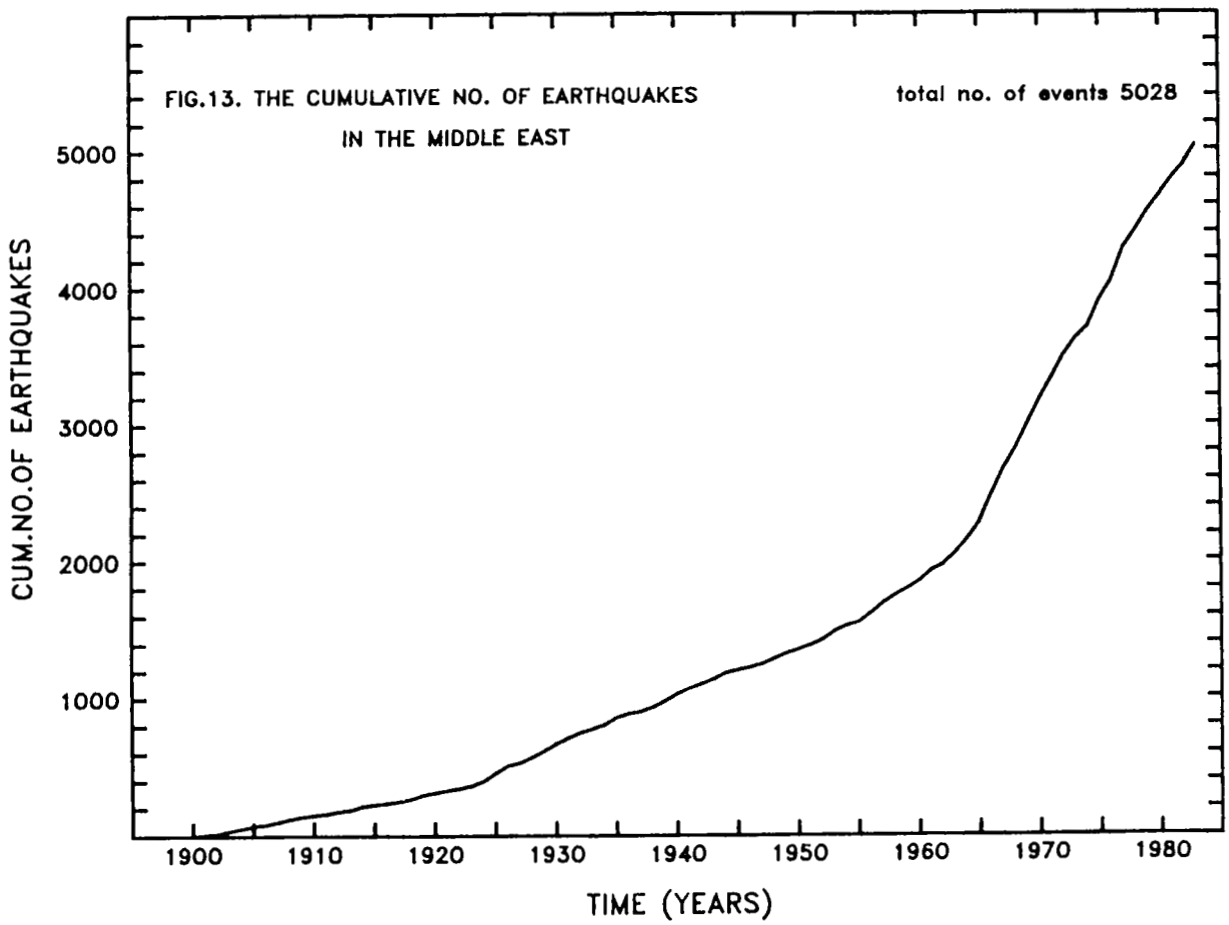


FIG.13. THE CUMULATIVE NO. OF EARTHQUAKES
IN THE MIDDLE EAST
total no. of events 5028
CUM.NO.OF EARTHQUAKES
5000
4000
3000
2000
1000
1900
1910
1920
1930
1940
1950
1960
1970
1980
TIME (YEARS)

Acknowledgments

The authors would like to acknowledge the great help given by Wilbur Rinehart, Mark Rockwell, Ron Smith, Susan Godeaux, and Jerry Coffman of the NOAA National Geophysical Data Center. This work was carried out while one of the authors (S.R.) was a visiting scientist at CIRES, University of Colorado, under Fulbright Grant #225.

References

Abe, K., 1981: Magnitudes of large shallow earthquakes from 1904 to 1980, Physics of the Earth and Planetary Interiors, v. 27, p. 72-92.

Abe, K. and S. Noguchi, 1983: Determination of magnitude for large shallow earthquakes 1898-1917, Physics of the Earth and Planetary Interiors, v. 32, p. 45-59.

Alvazov, I.V., 1961: Zavisimost Mezhdu Balnostyu, Intensivnostyu I Glubiny Ochaga Diya Kaukaskikh Zemletryaseniy (The Relationship between Magnitude, Intensity, and Focal Depth of Caucasian Earthquakes), Soobshch. Acad. Sci. GSSR, v. 26, no. 2, p. 149-152.

Ambraseys, N.N., 1978: Middle East--a reappraisal of seismicity, Quarterly Journal of Engineering Geology, The Geological Society, London, v. 2, p. 19-32.

Ambraseys, N.N., G. Lensen, and A. Moinfar, 1975: The Pattan Earthquake of December 1974, UNESCO Technical Report RP/1975-1976/2.222.3, Paris.

Ambraseys, N.N., and C.P. Melville, 1982: A History of Persian Earthquakes, Cambridge University Press, Cambridge, United Kingdom, 219 pp.

Ambraseys, N.N., and C.P. Melville, 1983: Seismicity of Yemen, Nature, v. 303, p. 321-323.

Aytun, A., May 14, 1971: Experience Gained from Recent Earthquakes in Turkey, Working Paper 7, 20 pp.

Bath, M., 1978: Introduction to Seismology, Halstead Press.

Bath, M., and S. Duda, 1979: Some Aspects of Global Seismicity, Report No. 1-79, Seismological Institute, Uppsala, Sweden, 41 pp.

Ben-Menahem, A., December 1979: Earthquake catalogue for the Middle East (92 B.C.-1980 A.D.), Bollettino di Geofisica Teorica ed Applicata, v. 21, No. 84, 313 pp.

Berberian, M., 1979: Tabas-e-Golshan (Iran) Catastrophic Earthquake of 16 September 1978; A Preliminary Report, Dept. of Geodesy and Geophysics, University of Cambridge, Permagon Press, Cambridge, United Kingdom, p. 207-219.

Brazee, R.J., 1976: Final Report: An Analysis of Earthquake Intensities with Respect to Attenuation, Magnitude, and Rate of Recurrence, Revised Edition, NUREG/CR-1805, NOAA Tech. Memorandum EDS NGSDC-2, NOAA/National Geophysical Data Center, Boulder, CO, 105 pp.

British Association for the Advancement of Science, 1903-1919: Annual Report of the Seismological Committee.

Chandra, Umesh, 1984: Focal mechanism solutions for earthquakes in Iran, Physics of the Earth and Planetary Interiors, v. 34, p. 9-16.

Chiburis, E.F., 1981: Seismicity Recurrance Rates and Regionalizations of the Northeastern United States and Adjacent Southeastern Canada, New England Seismotectonic Study (Patrick J. Barosh, Coordinator), Weston Observatory, Boston College, Weston, MA, p. 76.

Ergin, K., U. Guclu, and U. Hz, 1967: A Catalog of Earthquakes for Turkey and Surrounding Area (11 A.D. to 1964 A.D.), Istanbul, Turkey.

Flinn, E.A., and E.R. Engdahl, 1965: A proposed basis for geographical and seismic regionalization, Review of Geophysics, v. 3, No. 1, p. 123-149.

Ganse, R.A., and J.B. Nelson, July 1981: Catalog of Significant Earthquakes 2000 B.C.-1979, Report SE-27, World Data Center A for Solid Earth Geophysics, U.S. Dept. of Commerce, Boulder, CO, 154 pp.

Gouin, P., 1979: Earthquake History of Ethiopia and the Horn of Africa, Monograph IDRC-118, Geophysical Observatory, University of Addis Ababa, Addis Ababa, Ethiopia, 257 pp.

Gutenberg, B., and C. Richter, 1948: Earthquake magnitude, intensity, energy, and acceleration, Bulletin of the Seismological Society of America, v. 38, p. 163-191.

Gutenberg, B., and C. Richter, 1965: Seismicity of the Earth and Associated Phenomena, Princeton University Press, second edition; facsimile of 1954 edition published in 1965 by Hafner Publishing Co., New York, 310 pp.

Gutenberg, B., and C.F. Richter, 1956: Magnitude and energy of earthquakes, Annali di Geofisica, v. 9, p. 1-15.

International Seismological Centre, 1969-1982: Bulletin of the International Seismological Centre, Newbury, United Kingdom.

International Seismological Centre, 1979: Felt and Damaging Earthquakes 1976, No. 1, Newbury, United Kingdom, 49 pp.

Karnik, V., 1969: Seismicity of the European Area, D. Riedel Publishing Co., Dordrecht, The Netherlands.

Kondorskaya, N.V., and N.V. Shebalin, 1977: New Catalog of Strong Earthquakes in the Territory of the USSR: Ancient Times to 1975 (in Russian), Academy of Sciences, Moscow (English translation, updated through 1977, available as Report SE-31, World Data Center A for Solid Earth Geophysics, Boulder, CO, 608 pp.).

Lomnitz, C., 1974: Developments in Geotectonics 5, Global Tectonics and Earthquake Risk, American Elsevier Publishing Co., Inc., New York, 320 pp.

Meyers, H., and C.A. von Hake, 1976: Earthquake Data File Summary, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, 59 pp.

Miyamura, S., 1962: Magnitude-frequency relation and its bearing to geotectonics, Proceedings of Japan Academy, v. 38, No. 1, p. 27-30.

Nabavi, M.S., December 1979: Seismic activity in Iran during 1963-1970, Journal of the Earth and Space Physics, Institute of Geophysics, Tehran University Press, v. 8, No. 172, p. 13-63.

O'Connell, D.J.K., 1947: Catalogue of major shallow earthquakes, March 1909 to December 1911, reprinted for the Journal of Proceedings of the Royal Society of New South Wales, LXXX, p. 147-150.

Richter, C.F., 1958: Elementary Seismology, W.H. Freeman & Co., San Francisco, 768 pp.

Rothe, J.P., 1969: The Seismicity of the Earth 1953-1965, UNESCO, Paris, 336 pp.

Rothe, J.P., 1967-1974: Annual Summary of Information on Natural Disasters 1966-73, Nos. 1-8, UNESCO, Paris.

Seismological Society of America, 1911-1985: Seismological notes, Bulletin of the Seismological Society of America.

Shebalin, N.V., 1959: Opredelyniye glubinu ochaga zemletreseniya po evo magnitude m i makroseysmicheskim dannym (Determination of the depth of earthquakes using magnitude and macroseismic data), A.N. Grizomsloy SSR, Trudy Instituta Geofizika, v. 18, p. 159-169.

Singh, K., 1966: Earthquakes in India and neighborhood, Indian Journal of Meteorology and Geophysics (Mausam), v. 17, p. 528.

Solov'ev, S.L., 1961: Obshchiy Obzor Seysmichnosti SSSR, Zemletreyseniya v SSSR (General Review of Seismicity in the USSR, Earthquakes in the USSR), Acad. Sci. USSR, Moscow, p. 165-210.

Sykes, L.R., 1963: Seismicity of the South Pacific Ocean, Journal of Geophysical Research, v. 68, No. 21, p. 5999-6006.

Sykes, L.R., 1965: The seismicity of the Arctic, Bulletin of the Seismological Society of America, v. 55, No. 2, p. 501-518.

Sykes, L.R., 1966: The seismicity and deep structure of island arcs, Journal of Geophysical Research, v. 71, No. 12, p. 2981-3006.

Tabban, A., December 1970: Seismicity of Turkey, Individual Studies by Participants at the International Institute of Seismology and Earthquake Engineering, Tokyo, v. 6, p. 59-74.

Tchalenko, S.S., and M. Berberian, 1974: The Salmas (Iran) earthquake of May 6, 1930, Annali di Geofisica, v. 27, p. 151-212.

Tsubol, Ch., 1952: Magnitude-frequency relations for earthquakes in and near Japan, Journal of Physics of the Earth, v. 1, No. 1, P. 47-54.

U.S. Department of Commerce and U.S. Department of the Interior, 1941-1979: United States Earthquakes, annual publication available from Open-File Services Section, Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225.

U.S. Geological Survey, 1980-1983: Preliminary Determination of Epicenters (PDE).

U.S. Geological Survey, January 28, 1980: Significant Earthquakes of the World 1979, PDE No. 7-80.

Willis, D.E., 1974: Explosion Induced Ground Motion, Tidal and Tectonic Facies and their Relationship to Natural Seismicity, Dept. of Geological Science, University of Wisconsin.

List of Middle East Earthquakes by Flinn-Engdahl Regions

(Significant earthquakes are given in dark print.)

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1904	03	20	09	59	50	36.6	59.4	11	5.4*	5.6*		5.7	VIII	SSR
1904	11	09	03	28	06	36.6	59.4	20	5.7*	6.2*		6.3	IX	SSR
1912	02	24	14	36	38	37.0	59.5	10	5.4*	5.5	5.4	5.5	VII *	SSR
1916	02	11	20	53	20	36.0	59.5	7	5.0*	4.6*		4.8	VIII	SSR
1917	11	28	14	42	24	36.5	59.1	10	5.4*	5.6*		5.7	VIII*	SSR
1923	02	04				37.6	57.3	10	5.3*	5.4*		5.5	VIII	SSR
1923	09	17	07	09	07	37.2	57.7	14	5.7*	6.3*		6.4	IX	SSR
1924	09	27	10	12		37.0	53.0	16	5.2*	4.9*		5.1	VII	SSR
1925	12	10	04	59	32	37.2	57.8	12	5.4*	5.4	5.6	5.5	VIII	SSR
1927	03	25	18	14		37.7	58.5	14	4.9*	4.3*		4.5	VI	SSR
1928	04	26	15	40	01	37.4	55.4	10	5.1*	4.8*		5.0	VII *	SSR
1928	08	21	19	01	52	37.3	57.9	9	5.3*	5.2*		5.4	VIII	SSR
1929	**05**	**01**	**15**	**37**		**37.8**	**57.8**	**21**	**6.1***	**7.2**		**5.7***	**VIII***	
1929	05	01	22	42	44	37.3	58.2	15	5.0*	4.6*		4.8	VII	SSR
1929	05	03	16	20	01	37.7	58.2	13	5.2*	4.9*		5.1	VII	SSR
1929	05	04	06	31	13	37.6	58.2	17	5.1*	4.7*		4.9	VI	SSR
1929	05	13	06	32	01	38.4	57.7	10	5.1*	4.7*		4.9	VII *	SSR
1929	05	13	13	27	09	37.8	57.4	13	5.4*	5.6*		5.7	VIII	SSR
1929	07	13	07	36	30	37.5	58.0	57	5.5*	5.7*		5.8	VIII	SSR
1929	07	25	00	17	21	37.6	57.9	13	5.4*	5.6*		5.7	VIII	SSR
1929	09	16	02	49		37.6	57.9	10	5.0*	4.6*		4.8	VII	SSR
1929	11	19				37.5	57.9	12	5.1*	4.8*		5.0	VII	SSR
1931	08	08	08	54	16	37.0	58.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	11	22				37.8	57.5	11	5.1*	4.8*		5.0	VII	SSR
1935	09	08	01	16	12	37.3	54.4	10	4.9*	4.3*		4.5	VI *	SSR
1936	04	17	22	15	08	37.5	57.7	12	5.1*	4.8*		5.0	VII	SSR
1939	09	19	03	24		37.8	57.7	17	5.3*	5.4*		5.5	VII	SSR
1940	07	19	04	53	26	37.5	57.5	13	5.5*	5.7*		5.8	VIII*	SSR
1945	09	05	01	33	40	38.3	57.5	11	5.0*	4.6*		4.8	VII *	SSR
1947	07	10	15			37.5	57.8	5	4.7*	3.9*		4.1	VII	SSR
1947	09	26	12	16	07	37.0	55.0	10	4.9*	4.3*		4.5	VI *	SSR
1948	06	18	18	44	28	37.5	57.8	15	5.5*	5.8*		5.9	VIII	SSR
1948	**10**	**05**	**20**	**12**		**37.5**	**58.0**	**60**	**6.1***	**7.1**		**5.7***	**VIII***	
1948	10	06	01	24	44	37.4	58.8	2	5.6*	5.9*		6.0	VIII*	SSR
1948	10	17	06	16	25	37.4	58.4	9	4.9*	4.4*		4.6	VII	SSR
1948	10	24	23	06		37.7	58.5	15	5.2*	5.0*		5.2	VIII	SSR
1948	10	29	02	21	31	37.8	58.5	10	5.0*	4.6*		4.8	VII	SSR
1948	11	04	16	42		37.6	58.6	7	4.8*	4.2*		4.4	VII	SSR
1948	11	06	14	25		37.6	58.0	8	4.8*	4.1*		4.3	VII	SSR
1948	11	30	22	44		37.8	58.2	8	4.8*	4.1*		4.3	VII	SSR
1948	12	18	13	02		37.7	58.4	8	4.8*	4.1*		4.3	VII	SSR
1948	12	19	04	58	10	37.6	58.8	15	5.0*	4.6*		4.8	VII *	SSR
1948	12	24	14	42	44	37.8	58.4	11	4.9*	4.4*		4.6	VII	SSR
1949	01	11	20	07	03	37.8	58.0	8	4.9*	4.4*		4.6	VII	SSR
1949	12	14	03	43	50	36.0	59.0	12	5.1*	4.8*		5.0	VII *	SSR
1949	12	17	01	13	15	38.0	57.0	12	5.2*	4.9*		5.1	VII *	SSR
1949	12	19	04	58	10	37.6	58.6	12	5.0*	4.6*		4.8	VII *	SSR
1950	04	06	02	43	28	37.9	58.6	17	5.3*	5.2*		5.4	VII	SSR
1951	07	25	23	09	36	37.5	57.0	12	4.9*	4.3*		4.5	VI *	SSR
1952	06	24	07	46		37.3	57.4	11	4.9*	4.3*		4.5	VI *	SSR
1952	09	15	04	31	22	37.9	58.0	18	5.2*	4.9*		5.1	VII	SSR
1953	04	18	06	32	34	37.0	54.3	10	4.9*	4.3*		4.5	VI *	SSR
1954	09	01	21	09	58	37.0	57.0	13	5.1*	4.8*		5.0	VII *	SSR
1954	10	25	13	19	27	37.6	58.2	19	5.1*	4.7*		4.9	VI	SSR
1954	11	01	21	09	58	37.0	57.0		5.3*	5.3*	5.5 KIR	5.1*	VII *	PDE
1957	04	25	00	45	23	37.3	58.4	15	5.0*	4.5*		4.7	VI	SSR
1957	06	09	22	44		37.4	55.6	9	4.9*	4.3*		4.5	VI *	SSR
1958	10	06	09	29	27	37.6	54.3	12	5.2*	5.0*		5.2	VII *	SSR
1960	03	07	11	43	33	37.5	57.3	10	4.9*	4.3*		4.5	VI *	SSR
1961	07	18	01	29	21	37.7	58.6	7	4.8*	4.0*		4.2	VII	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1961	09	17	05	30	10	37.5	57.3	25	4.9*	4.3*		4.5	VI	SSR
1962	03	19	23	05	08	37.5	54.3	40	4.9*	4.3*		4.5	VII	SSR
1963	**03**	**31**	**02**	**27**		**37.0**	**57.9**	**33**	**6.0***	**7.0**		**5.7***	**VIII***	
1963	08	11	08	43	44	37.1	55.0		5.0*	4.5*	4.7	5.0	VII *	SSR
1963	08	17	21	58	54	36.7	59.7	33	4.8	4.3*		4.8*	VII *	PDE
1963	09	18	15	42	03	38.5	57.2	33	5.1	4.8*		5.0*	VII *	PDE
1963	09	20	10	32	40	38.8	56.8	12	4.8*	4.0*		4.2	VI	SSR
1964	12	06	05	54	36	38.1	57.0	40	4.9*	4.3*		4.5	V	SSR
1964	12	06	06	25	16	38.0	56.9	12	4.9*	4.3*		4.5	VI *	SSR
1966	01	02	16	33	09	38.1	57.0	13	4.9*	4.3*		4.5	VI *	SSR
1966	01	02	18	11	12	37.9	57.1	10	4.9*	4.3*		4.5	VI *	SSR
1966	01	18	20	54	12	37.9	57.1	10	4.9*	4.3*		4.5	VI *	SSR
1966	10	24	14	31	15	37.4	59.6	14	5.2	5.0*		5.0*	VII *	PDE
1969	**01**	**03**	**03**	**16**		**37.1**	**57.8**	**11**	**5.4***	**5.6**		**5.2***	**VII ***	
1969	11	23	11	40	45	38.3	55.5	38	4.9	4.5*		4.8*	VII *	PDE
1969	11	24	15	44	23	38.4	55.2	49	4.8	4.3*		4.8*	VII *	PDE
1969	11	25	09	16	07	38.3	55.5	33	4.8	4.3*		4.8*	VII *	PDE
1970	01	09	09	23	05	38.5	55.4	23	4.8	4.3*		4.8*	VII *	PDE
1970	02	25	15	07	51	37.4	55.7	36	5.0	4.6*		4.9*	VII *	PDE
1970	04	03	20	53	55	37.1	54.6	43	5.2	5.0*		5.0*	VII *	PDE
1970	04	04	10	58	09	37.0	59.4	8	4.8	4.3*		4.8*	VII *	PDE
1970	**07**	**30**	**00**	**52**		**37.8**	**55.8**	**22**	**5.5***	**5.7**		**5.3***	**VII ***	
1970	07	30	02	02	02	37.6	55.8	33	4.8	4.3*		4.8*	VII *	PDE
1970	07	30	02	35	12	37.5	55.8	33	4.9	4.5*		4.8*	VII *	PDE
1970	07	30	13	26	07	37.6	56.0	20	4.9*	4.3*		4.5	V	SSR
1970	07	30	16	17	28	37.6	55.9	21	5.0*	4.5*		4.7	VI	SSR
1970	08	01	11	40	39	37.5	55.6	33	4.9	4.5*		4.8*	VII *	PDE
1970	11	12	13	10	06	38.3	57.2	63	4.6	4.0*		4.6*	VI *	PDE
1971	02	03	15	13	13	38.5	56.4		4.9*	4.3*	4.5	4.4	VI *	SSR
1971	08	28	16	34	44	37.6	55.8	33	4.8	4.3*		4.8*	VII *	PDE
1971	10	15	14	19	32	37.3	54.6	39	4.7	4.2*		4.7*	VII *	PDE
1972	07	20	13	58	45	37.8	55.7	10	4.9*	4.3*		4.5	VI *	SSR
1972	10	12	10	26	07	38.2	56.3	9	4.9*	4.3*		4.5	VII	SSR
1972	10	28	03	49	19	38.1	56.6		4.9*	4.3*	4.5	4.4	VI *	SSR
1973	01	29	13	24	55	37.1	55.8	40	5.1*	4.8*		5.0	V	SSR
1974	01	21	22	08	31	36.8	59.4	20	5.0*	4.5*	4.7	4.4	VI *	SSR
1974	03	07	11	36	02	37.6	55.8	21	5.1	5.0		5.0*	VII *	PDE
1976	02	14	15	29	51	37.6	57.1		5.0*	4.6*	4.8	5.0	VII *	SSR
1976	05	31	08	07	12	38.9	55.8	7	4.7	4.2*		4.7*	VII *	PDE
1977	03	25	17	44	21	37.2	59.3	33	4.6	4.0*		3.7	VIII	SSR
1977	08	17	16	28	42	36.4	59.0	11	4.7	4.2*		4.7*	VII *	PDE
1977	09	03	22	05	06	37.0	56.0	33	4.9	4.5*		4.8*	VII *	PDE
1978	03	02	11	42	14	37.3	54.6	33	4.7	4.2*		4.7*	VII *	PDE
1978	06	14	12	54	12	38.2	56.3		5.1*	4.8*		5.0	VII *	SSR
1978	06	14	12	59	45	38.1	56.3		5.1*	4.8*		5.0	VII *	SSR
1979	03	08	22	40	34	37.5	57.5	33	4.7	4.2*		4.7*	VII *	PDE
1979	10	06	11	55	42	38.3	57.5	15	4.6	4.0*		4.6*	III	PDE
1980	01	11	17	42	44	37.0	55.7	33	4.7	4.2*		4.7*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 343 TURKEY-IRAN BORDER REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1908	09	28	06	28		38.0	44.0	33	5.5*	5.8*	6.0	5.3*	VII *	KRK
1930	05	06	07	03	22	37.0	44.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1930	**05**	**06**	**22**	**34**		**38.1**	**44.7**		**6.2***	**7.5**		**5.8***	**VIII***	
1930	05	07	09	29	30	37.0	44.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1930	05	08	15	35	24	37.3	44.8	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1930	05	08	23	36	22	37.3	44.8	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1930	05	09	01	43		37.0	44.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1930	05	10	21	43	22	37.5	44.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1930	05	21	13	50	51	37.0	44.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1930	08	03	22	05	51	37.3	44.8	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1930	08	03	22	06	03	38.5	44.7	80	5.1*	4.8*	5.0	5.0*	VII *	ANK
1930	08	21	06	55	20	37.0	44.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1931	12	24	23	00	05	37.3	44.8	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1940	10	18	12	25	54	38.0	44.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1949	05	08	09			37.3	44.6	33	5.1*	4.7*	4.9	4.9*	VII	KRK
1950	11	25	17	18	39	37.0	44.0	33	5.0*	4.5*	4.7	4.9*	VI	KRK
1951	03	15	10	01	02	38.4	44.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1958	07	27	17	14	40	38.8	44.6	10	4.9*	4.3*		4.5	VI *	SSR
1958	10	26	12	40	30	37.5	44.5		5.3*	5.4*	5.6 QUE	5.2*	VII *	PDE
1961	04	19	14	20	06	38.3	44.9	20	4.9*	4.3*		4.5	VI *	SSR
1962	04	19	11	55	21	38.6	44.0		5.0*	4.6*	4.8	4.9*	VII *	SSR
1967	05	17	04	28	52	38.7	44.3	46	4.7	4.2*		4.7*	VII *	PDE
1970	**03**	**14**	**01**	**51**		**38.5**	**44.7**	**23**	**5.3***	**5.3**		**5.1***	**VII ***	
1976	11	25	05	46	05	38.9	44.0		4.9*	4.4*	4.6	4.4	VI *	SSR
1976	11	26	22	37	50	38.9	44.1		4.9*	4.3*	4.5	3.9	VI *	SSR
1976	12	12	07	54	20	39.0	44.2	40	4.8	4.3*		4.8*	VII *	PDE
1977	02	04	20	47	25	38.9	44.0	36	4.7	4.2*		4.7*	VII *	PDE
1977	**05**	**26**	**01**	**35**		**38.9**	**44.3**	**37**	**5.4***	**5.4**		**5.2***	**VII ***	
1977	05	30	18	06	55	38.9	44.3	36	4.6	4.0*		4.6*	VI *	PDE
1981	01	04	07	19	46	38.4	44.8	33	4.7	4.2*		4.7*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 344 N.W. IRAN-USSR BORDER REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1902	09	05	04	33		39.5	48.0	20	5.1*	4.8*		5.0	VI	SSR
1902	10	26	11	37		39.7	47.8	14	5.1*	4.7*		4.9	VI	SSR
1907	04	12	02	01	10	39.2	45.4	20	4.9*	4.2	5.3	4.2	VI	SSR
1907	12	23	14	25		38.7	46.0	21	4.9*	4.3		4.3	VI	SSR
1909	01	26	22	56		39.1	45.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1910	12	04	14	02		38.8	48.8	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1913	04	16	06			38.7	48.5	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1913	11	12	04	28	56	38.8	45.8	25	5.2*	5.0	4.4	4.7	V	SSR
1914	11	01	21	53	26	38.4	45.4	15	4.9*	4.2	5.0	4.2	VI *	SSR
1916	09	11	03	06		39.5	45.5	30	4.9*	4.4*		4.6	VI *	SSR
1916	10	11	03	05		39.5	45.5	30	4.9*	4.3*		4.5	VI *	SSR
1917	06	02	00	28	05	38.0	48.5	30	5.1*	4.7*		4.9	VII *	SSR
1924	02	19	06	59	55	39.0	47.8	50	5.4*	5.6*	5.8	5.2*	VIII	KRK
1926	07	08	15	59	12	39.7	44.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1931	02	06	05	20	12	39.5	46.3	27	4.9*	4.3*		4.5	VI	SSR
1931	02	12	05	33	07	39.5	46.0	12	4.8*	4.2*		4.4	VII	SSR
1931	04	27				38.7	46.2	33	5.7*	6.3*	6.5	5.4*	VII *	KRK
1931	04	27	16	50	38	38.7	46.0		5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1931	04	27	18	05		39.5	46.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1931	05	08	09	06	03	39.0	46.0	33	4.8*	4.1*	4.3	4.8*	VII	KRK
1931	05	12	10	25	13	38.8	46.3	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1931	05	21	12	00	54	39.5	44.3	24	4.8*	4.2*		4.4	VI	SSR
1931	07	04	21	00	50	38.0	45.6	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1931	07	05	17	57	09	39.3	47.8	60	5.0*	4.5		5.3	VI	SSR
1931	07	29	13	10		39.0	46.0	10	4.8*	4.1*		4.3	VI	SSR
1931	10	07	03	58		39.3	46.2	15	4.8*	4.0*		4.2	VI	SSR
1932	06	16	12	09		38.7	45.1	33	4.9*	4.3*	4.5	4.8*	V	KRK
1932	08	10	17			38.3	46.3	33	4.8*	4.2*	4.4	4.8*	VI	KRK
1933	04	16	06	54	46	39.0	48.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1933	11	06	07	07	16	39.3	46.6	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1934	02	22	08	07	13	38.5	45.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	10	29	16	15	45	39.8	47.5	33	5.4*	5.5*	5.7	5.2*	VIII	KRK
1934	11	02	22	06	16	39.9	48.7	22	4.9*	4.3*		4.5	V	SSR
1935	01	06	21	24	58	39.5	46.2	110	5.0*	4.6*	4.8	4.9*	VI	KRK
1940	07	11	01	23	33	39.5	47.6	18	5.2*	5.1*	5.3	4.9	VII	SSR
1946	10	03	15	37	39	39.5	44.0	33	5.1*	4.8*	5.0	5.0*	V	KRK
1950	05	01	08	15	02	39.0	44.3	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1951	03	12	15	45	36	39.3	48.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1952	09	30	02	50	43	39.0	44.2	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1953	02	01	18	36	36	38.4	45.1	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1954	08	16	14	59		39.0	48.7	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1954	10	22	22	47	29	38.9	45.8	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1957	05	29	10	02	55	38.3	45.1	21	4.9*	4.4*		4.6	VI	SSR
1959	08	13	00	33	08	39.8	48.5		5.2*	5.1*	5.4 UPP	5.1*	VII *	ISS
1964	11	09	08	05	49	39.8	48.4	65	5.1	4.8*		5.0*	VII *	PDE
1965	01	23	11	23	32	39.1	48.4	33	4.6	4.0*		4.6*	VI *	PDE
1968	**04**	**29**	**17**	**01**		**39.2**	**44.3**	**34**	**5.4***	**5.6**		**5.2***	**VII ***	
1968	06	09	00	56	34	39.0	46.0	50	5.0	4.6*		4.9*	VII *	PDE
1968	09	01	05	39	47	39.1	46.0	38	5.1	4.8*		5.0*	VII *	PDE
1970	04	16	01	26	52	38.7	48.6	78	4.9	4.5*		4.8*	VII *	PDE
1970	11	21	08	35	54	39.8	48.2	40	5.0*	4.6*	4.8	4.4	VI *	SSR
1975	12	16	07	42	51	39.6	48.3	58	4.7	4.2*		4.7*	VII *	PDE
1976	02	03	16	40	41	39.9	48.4	58	5.2	5.0*		5.0*	VII *	PDE
1976	**11**	**24**	**12**	**22**		**39.1**	**44.0**	**36**	**6.2***	**7.3**		**5.8***	**VIII***	
1976	11	24	12	36	46	39.2	44.3	33	5.5	5.4*		5.3*	VII *	PDE
1976	11	24	15	11	05	39.0	44.2	40	5.0	4.6*		4.9*	VII *	PDE
1976	11	24	20	46	06	39.1	44.0	46	4.8	4.3*		4.8*	VII *	PDE
1976	11	25	09	49	27	39.0	44.3	34	5.0	4.6*		4.9*	IV	PDE
1976	11	30	11	45	04	39.2	44.2	33	4.6	4.0*		4.6*	VI *	PDE
1977	05	02	18	55	02	39.6	44.0	42	4.7	4.2*		4.7*	VII *	PDE

FLINN-ENGDAHL REGION: 344 N.W. IRAN-USSR BORDER REGION (CONT.)

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1977	05	30	03	42	56	39.1	44.3	57	4.9	4.5*		4.8*	VII *	PDE
1979	11	08	05	21	59	38.7	48.8	33	4.7	4.2*		4.7*	VII *	PDE
1980	03	25	03	57	28	38.8	45.4	41	4.7	4.2*		4.7*	VII *	PDE
1980	05	04	18	35	20	38.1	49.0	46	5.4	6.2	6.3 PAS	5.2*	VII *	PDE
1980	10	10	11	09	52	38.3	45.8	33	4.7	4.2*		4.7*	IV	PDE
1980	12	29	21	53	04	38.6	45.0	33	4.6	4.0*		4.6*	VI *	PDE
1983	04	02	00	32	28	39.0	48.7	33	4.6	4.0*		4.6*	V	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 345 NORTHWESTERN IRAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1928	03	24	10	53	16	37.8	47.3	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	05	07	13	47	48	37.5	45.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	05	08	05	29	30	37.5	45.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1930	05	08	14	23	30	37.7	45.2	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1930	05	08	15	05	21	37.5	45.5	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1930	05	23	09	48	20	37.5	45.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1930	05	29	17	14	55	37.5	45.5	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1930	06	04	07	28	10	37.9	45.1	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1930	10	25	23	34	25	37.9	45.1	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1932	05	24	23	29	26	37.8	48.2	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1932	05	24	23	31	51	37.8	48.2	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1965	02	10	16	09		37.6	47.1	52	5.2*	5.1		5.1*	VII *	
1965	10	29	15	59	42	37.9	48.7	33	4.6	4.0*		4.6*	VI *	PDE
1970	07	11	22	41	16	37.6	49.0	65	5.1	4.8*		5.0*	VII *	PDE
1971	02	11	01	41	24	38.5	47.2	12	4.9*	4.3*		4.5	VI	SSR
1972	01	18	21	12	02	37.5	48.7	33	4.9	4.5*		4.8*	VII *	PDE
1978	11	04	15	22	19	37.7	48.9	34	6.1	6.0	6.0 PAS	5.7*	VIII*	PDE
1979	08	27	16	09	49	37.8	48.9	33	4.7	4.2*		4.7*	VII *	PDE
1979	11	21	15	36	02	38.4	47.3	10	4.6	4.0*		4.6*	III	PDE
1981	07	23	00	05	31	37.1	45.2	33	5.6	5.6		5.3*	VII *	PDE
1981	07	23	14	07	14	37.3	45.3	33	4.6	4.0		4.6*	VI *	PDE
1981	10	09	01	36	15	37.2	45.4	33	4.7	4.2*		4.7*	VII *	PDE
1982	06	10	04	17	30	37.0	45.1	33	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 346 IRAN-IRAQ BORDER REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1909	04	11	04	02		36.0	45.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1909	04	11	04	20		36.0	45.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1927	11	12	14	45	50	32.5	46.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1930	05	10	11	03		35.0	46.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1932	05	07	14	54	09	36.2	45.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1940	07	06	17	45	12	33.5	46.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	06	10	20	38	43	32.0	47.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1944	06	28	02	57	21	36.0	45.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1946	**07**	**27**	**16**	**25**		**35.6**	**45.8**		**5.4***	**5.4**		**5.2***	**VII ***	
1946	08	17	09	48	06	35.0	46.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1946	08	17	23	37	40	35.0	46.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1949	10	13	10	26	30	36.6	44.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1956	02	03	13	16	02	33.1	46.6		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1958	10	23	15	42	55	33.6	46.2		5.2*	5.1*	5.3 QUE	5.1*	VII *	ISS
1964	11	15	06	33	24	35.6	45.7	33	4.7	4.2*		4.7*	VII *	PDE
1967	01	11	11	20	46	34.1	45.7	41	5.5	5.4*	5.9 UPP	5.3*	VII *	PDE
1967	07	14	11	46	39	35.2	46.4	59	4.6	4.0*		4.6*	VI *	PDE
1967	12	18	22	49	28	33.6	46.9	39	5.0	4.6*		4.9*	VII *	PDE
1968	01	22	20	34	10	33.8	46.9	33	5.0	4.6*		4.9*	VII *	PDE
1968	01	22	21	20	39	33.7	46.8	10	5.0	4.6*		4.9*	VII *	PDE
1969	08	01	23	22	35	34.3	45.4	66	4.9	4.5*		4.8*	VII *	PDE
1969	11	28	01	29	28	36.7	45.2	16	4.7	4.2*		4.7*	VII *	PDE
1970	10	25	11	22	18	36.8	45.1	19	5.5	4.8		5.3*	VII *	PDE
1971	01	20	21	32	03	35.1	46.9	57	5.1	4.8*		5.0*	VII *	PDE
1971	07	18	00	02	26	34.0	45.2	33	4.7	4.2*		4.7*	VII *	PDE
1972	01	14	22	10	04	32.8	46.9	33	5.1	5.3		5.0*	VII *	PDE
1972	06	12	13	34	01	33.1	46.3	33	5.4	5.0		5.2*	VII *	PDE
1972	06	12	13	39	59	33.1	46.2	33	5.1	4.8*		5.0*	VII *	PDE
1972	06	13	00	55	37	33.1	46.3	27	5.1	4.8*		5.0*	VII *	PDE
1972	06	14	04	34	28	33.0	46.1	33	5.3	5.1*		5.1*	VII *	PDE
1972	06	23	08	39	36	32.9	46.2	40	4.6	4.0*		4.6*	VI *	PDE
1972	07	11	22	49	02	36.1	45.7	33	4.7	4.2*		4.7*	VII *	PDE
1974	11	27	07	39	16	33.2	46.9	31	4.9	4.5*		4.8*	VII *	PDE
1974	11	27	16	52	50	35.3	45.7	50	5.0	4.6*		4.9*	VII *	PDE
1976	04	21	03	51	36	33.7	47.0	33	4.7	4.2*		4.7*	VII *	PDE
1976	12	11	04	09	26	33.7	46.5	41	5.0	4.6*		4.9*	VII *	PDE
1977	02	23	14	12	09	32.6	47.8	33	4.8	4.3*		4.8*	VII *	PDE
1977	06	05	04	59	16	32.7	47.9	58	4.9	4.5*		4.8*	VII *	PDE
1977	06	05	05	58	51	32.4	48.0	33	4.6	4.0*		4.6*	VI *	PDE
1977	06	05	08	45	13	32.7	47.9	54	4.6	4.0*		4.6*	VI *	PDE
1978	01	10	12	36	22	32.5	48.0	33	4.7	4.2*		4.7*	VII *	PDE
1980	02	21	13	57	05	32.7	47.8	33	4.8	4.3*		4.8*	VII *	PDE
1980	02	21	13	59	43	32.1	47.3	33	4.7	4.2*		4.7*	VII *	PDE
1980	02	21	14	08	14	32.4	47.5	33	4.9	4.5*		4.8*	VII *	PDE
1980	12	18	12	34	16	36.0	44.7	33	5.4	5.8		5.2*	VII *	PDE
1981	05	04	16	13	57	34.5	45.7	33	4.7	4.1		4.7*	VII *	PDE
1981	12	28	14	49	41	35.1	45.9	33	5.1	4.0		5.0*	VII *	PDE
1982	04	30	17	27	51	33.5	46.1	53	4.6	4.0*		4.6*	VI *	PDE
1982	07	19	07	19	24	33.5	46.1	49	4.9	4.0		4.8*	VII *	PDE
1983	11	17	09	10	45	31.6	47.5	65	4.7	4.2*		4.7*	VII *	PDE
1983	11	19	07	57	58	34.3	45.9	35	5.1	4.2		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 347 WESTERN IRAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1909	**01**	**23**	**02**	**48**		**33.4**	**49.1**		**6.2***	**7.3**		**5.8***	**VIII***	
1929	07	15	07	44	14	32.0	49.5		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1932	01	22	00	48	56	33.0	47.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	03	15	10	18	06	34.0	48.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	11	04	10	15	24	32.0	49.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1955	12	17	08	06	42	33.5	49.0		5.4*	5.5*	5.8 KIR	5.2*	VII *	PDE
1956	08	08	11	38	08	32.5	49.0		5.0*	4.5*	4.8 MOS	4.9*	VII *	BCI
1957	**12**	**13**	**01**	**45**		**34.3**	**47.8**	**40**	**6.1***	**7.2**		**5.7***	**VIII***	
1958	08	14	11	26	59	34.1	47.7		5.4*	5.5*	5.7 MOS	5.2*	VII *	ISS
1958	**08**	**16**	**19**	**13**		**34.3**	**47.8**		**5.9***	**6.8**		**5.6***	**VII •**	
1958	09	03	01	34	06	34.0	47.0		5.1*	4.8*	5.0 MOS	5.0*	VII •	PDE
1958	**09**	**21**	**16**	**18**		**36.0**	**49.0**							
1960	04	02	23	33	09	34.5	48.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	06	02	12	42	38	33.5	49.0		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1961	**06**	**27**	**00**	**49**		**33.5**	**49.4**							
1961	10	03	09	34	52	34.3	47.9	59	5.0*	4.6*	4.8 MOS	4.9*	VII *	PDE
1961	**10**	**14**	**07**	**01**		**33.6**	**48.1**	**33**						
1961	10	28	10	46	42	33.6	48.5	52	5.0*	4.4*	4.7 BUC	4.9*	VII •	PDE
1962	**09**	**01**	**19**	**20**		**35.6**	**49.8**	**27**	**6.1***	**7.2**		**5.7***	**VIII***	
1963	**03**	**24**	**12**	**44**		**34.4**	**47.8**	**42**	**5.4***	**5.5**		**5.2***	**VII ***	
1963	06	30	07	41	07	33.2	49.2	38	5.1	4.8*		5.0*	VII *	PDE
1964	01	12	12	45	51	31.5	49.4	67	5.2	5.0*		5.0*	VII *	PDE
1964	08	12	19	26	26	31.0	49.8	33	5.1	4.8*		5.0*	VII *	PDE
1964	11	10	15	47	49	32.6	49.1	28	5.3	5.1*		5.1*	VII *	PDE
1964	11	26	04	48	55	33.1	49.0	33	4.7	4.2*		4.7*	VII *	PDE
1965	03	10	05	44	48	32.8	49.2	33	5.4	5.3*		5.2*	VII *	PDE
1965	09	08	05	35	45	32.9	48.4	50	4.7	4.2*		4.7*	VII •	PDE
1966	06	25	11	52	17	32.6	48.7	36	4.7	4.2*		4.7*	VII *	PDE
1966	07	27	14	49	02	32.6	48.8	33	5.3	5.1*		5.1*	VII *	PDE
1966	07	27	18	06	35	32.7	48.7	53	4.7	4.2*		4.7*	VII *	PDE
1966	07	27	19	40	09	32.6	48.8	50	5.0	4.6*		4.9*	VII *	PDE
1967	02	15	01	47	29	34.6	47.6	41	5.0	4.6*		4.9*	VII *	PDE
1967	02	21	15	10	27	31.7	49.1	65	4.9	4.5*		4.8*	VII *	PDE
1967	08	25	12	26	49	35.4	49.1	43	4.8	4.3*		4.8*	VII *	PDE
1967	10	27	08	05	14	34.3	46.2	68	5.0	4.6*		4.9*	VII •	PDE
1968	05	30	00	11	17	32.6	48.3	41	4.7	4.2*		4.7*	VII *	PDE
1968	06	04	06	50	07	32.7	48.3	40	5.2	5.0*		5.0*	VII *	PDE
1968	07	15	08	33	38	32.5	48.7	33	4.6	4.0*		4.6*	VI *	PDE
1969	01	10	23	16	37	32.5	48.7	62	4.6	4.0*		4.6*	VI *	PDE
1969	02	07	01	03	07	32.6	48.1	51	4.7	4.2*		4.7*	VII *	PDE
1969	09	01	23	16	10	30.9	49.8	28	4.9	4.5*		4.8*	VII *	PDE
1969	10	20	16	27	25	32.1	49.7	52	4.7	4.2*		4.7*	VII *	PDE
1969	10	31	08	53	26	33.2	47.9	51	5.0	4.6*		4.9*	VII *	PDE
1970	01	03	16	35	48	32.6	48.8	32	5.0	4.6*		4.9*	VII *	PDE
1970	06	07	17	48	34	33.0	49.4	50	4.7	4.2*		4.7*	VII *	PDE
1971	01	28	15	51	07	35.0	47.0	43	4.6	4.0*		4.6*	VI *	PDE
1972	02	05	21	52	44	33.9	47.1	54	4.7	4.2*		4.7*	VII *	PDE
1972	06	08	09	39	21	34.1	46.2	18	4.9	4.5*		4.8*	VII *	PDE
1973	01	06	20	01	51	33.1	48.3	63	4.8	4.3*		4.8*	VII *	PDE
1973	02	07	05	27	20	32.0	49.4	51	5.2	5.0*		5.0*	VII *	PDE
1973	03	12	13	21	49	32.1	49.3	62	4.9	4.5*		4.8*	VII *	PDE
1973	03	13	06	03	49	32.1	49.4	33	4.9	4.5*		4.8*	VII *	PDE
1973	04	22	21	29	57	30.7	49.8	57	5.0	4.6*		4.9*	VII *	PDE
1973	08	05	09	44	52	31.1	50.0	33	4.6	4.0*		4.6*	VI *	PDE
1973	11	02	05	46	38	32.7	48.2	55	4.9	4.5*		4.8*	VII *	PDE
1973	11	02	05	57	33	32.6	48.2	59	4.9	4.5*		4.8*	VII *	PDE
1973	11	05	05	36	06	32.9	49.6	51	5.2	5.0*		5.0*	VII *	PDE
1973	11	13	22	19	25	32.6	48.3	48	4.8	4.3*		4.8*	VII *	PDE
1973	11	13	22	52	15	32.7	48.3	59	4.9	4.5*		4.8*	VII *	PDE
1974	01	07	15	24	38	33.3	47.9	32	5.0	4.6*		4.9*	VII *	PDE

FLINN-ENGDAHL REGION: 347 WESTERN IRAN (CONT.)

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1974	01	07	15	29	33	33.3	47.9	36	4.8	4.3*		4.8*	VII *	PDE
1974	10	17	04	10	16	30.9	49.6	35	4.6	4.0*		4.6*	VI *	PDE
1974	11	22	09	44	17	32.7	50.0	52	4.6	4.0*		4.6*	VI *	PDE
1975	06	28	16	31	15	32.6	49.1	58	4.7	4.2*		4.7*	VII *	PDE
1975	09	01	23	15	53	33.3	49.1	16	4.9	4.5*		4.8*	VII *	PDE
1976	09	05	16	43	16	31.4	50.0	44	5.1	4.8*		5.0*	VII *	PDE
1976	11	07	11	07	57	33.2	48.0	51	5.5	5.4*		5.3*	VII *	PDE
1976	11	15	08	03	23	33.2	47.9	49	5.4	5.3*		5.2*	VII *	PDE
1977	01	04	16	09	59	33.1	47.9	45	5.1	4.8*		5.0*	VII *	PDE
1977	01	18	08	48	54	33.2	48.0	48	5.2	5.0*		5.0*	VII *	PDE
1977	02	25	04	37	16	32.5	49.4	66	4.8	4.3*		4.8*	VII *	PDE
1977	04	26	16	25	29	32.7	48.9	47	5.4	4.8		5.2*	VII *	PDE
1977	04	30	06	13	52	32.5	48.9	48	4.6	4.0*		4.6*	VI *	PDE
1977	05	11	23	46	17	33.2	48.0	33	4.8	4.3*		4.8*	VII *	PDE
1977	06	05	04	45	08	32.6	48.1	40	5.5	5.8		5.3*	VII *	PDE
1977	06	05	05	22		32.1	48.5	33	4.6	4.0*		4.6*	VI *	PDE
1977	06	05	06	27	34	32.5	48.3	33	4.7	4.2*		4.7*	VII *	PDE
1977	06	05	07	48	38	32.4	48.1	33	4.7	4.2*		4.7*	VII *	PDE
1977	06	05	08	25	31	32.6	48.2	33	5.1	4.8*		5.0*	VII *	PDE
1977	06	05	19	21	26	32.5	48.1	33	4.7	4.2*		4.7*	VII *	PDE
1977	06	26	13	58	58	32.0	48.0	33	4.6	4.0*		4.6*	VI *	PDE
1978	03	03	02	42	48	32.9	48.6	33	4.8	4.3*		4.8*	VII *	PDE
1978	08	28	00	07	04	32.6	49.8	49	5.2	4.3		5.0*	VII *	PDE
1978	**12**	**14**	**07**	**05**		**32.1**	**49.6**	**40**	**5.7***	**6.2**		**5.4***	**VII ***	
1978	12	14	15	42	54	32.1	49.5	44	4.7	4.2*		4.7*	VII *	PDE
1979	03	28	01	33	27	30.9	49.9	33	5.1	4.6		5.0*	VII *	PDE
1979	06	02	01	34	33	32.5	49.6	33	4.6	4.0*		4.6*	VI *	PDE
1979	07	01	09	37	30	34.8	46.1	33	4.7	4.2*		4.7*	VII *	PDE
1979	11	21	14	39	03	32.6	48.8	60	4.9	4.5*		4.8*	VII *	PDE
1980	03	31	09	50	11	33.5	48.3	33	4.6	4.0*		4.6*	VI *	PDE
1980	10	19	17	24	10	32.8	48.6	42	5.3	5.8		5.1*	VII *	PDE
1980	10	23	14	50	21	32.7	48.6	33	4.6	4.0*		4.6*	VI *	PDE
1981	01	02	04	57	58	32.7	48.5	33	5.1	4.7		5.0*	VII *	PDE
1981	12	24	22	00	52	33.1	49.7	33	4.7	4.0		4.7*	VII *	PDE
1982	02	05	21	36	51	32.0	49.6	33	4.7	4.2*		4.7*	VII *	PDE
1982	06	01	12	18	46	33.7	48.2	33	5.0	4.1		4.9*	VII *	PDE
1982	07	01	20	21	27	34.8	47.8	33	4.6	4.0*		4.6*	VI *	PDE
1982	10	18	20	45	40	32.9	48.6	33	4.7	4.2*		4.7*	VII *	PDE
1982	11	11	02	43	07	32.2	49.5	33	4.7	4.2*		4.7*	VII *	PDE
1983	01	15	10	55	31	34.0	47.1	33	4.6	4.0*		4.6*	VI *	PDE
1983	03	05	14	22	36	32.5	49.3	33	5.4	5.4		5.2*	VII *	PDE
1983	05	06	07	22	21	32.3	49.0	33	4.9	4.5*		4.8*	VII *	PDE
1983	05	28	11	35	52	32.6	48.6	18	5.6	5.1		5.3*	VII *	PDE
1983	05	28	14	03	39	32.8	49.1	33	4.6	4.0*		4.6*	VI *	PDE
1983	05	28	22	23	41	32.7	48.5	33	4.9	3.9		4.8*	VII *	PDE
1983	05	29	01	50	12	32.6	48.5	33	4.8	4.3*		4.8*	VII *	PDE
1983	05	29	08	11	02	32.6	48.6	33	4.6	4.0*		4.6*	VI *	PDE
1983	**07**	**22**	**02**	**41**		**36.8**	**49.1**	**61**	**5.2***	**5.0**		**5.0***	**VII ***	

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 348 IRAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1903	01	02	00	07	15	36.5	54.9	25	5.2*	5.0*		5.2	V	SSR
1903	**09**	**25**	**01**	**20**		**35.2**	**58.2**		**5.8***	**6.5**		**5.5***	**VII ***	
1911	**04**	**18**				**31.3**	**56.8**							
1917	11	28	17	43	45	36.5	58.4	10	5.2*	5.0*		5.2	VII *	SSR
1923	**05**	**25**	**22**	**21**		**35.2**	**59.2**		**5.5***	**5.7**		**5.3***	**VII ***	
1923	**09**	**17**	**07**	**09**		**35.5**	**55.0**		**5.8***	**6.5**		**5.5***	**VII ***	
1925	**12**	**14**				**34.6**	**58.1**		**5.4***	**5.5**		**5.2***	**VII ***	
1927	07	22	03	55	10	34.5	53.5		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1928	**08**	**21**	**21**	**19**		**35.5**	**59.0**	**12**	**5.2***	**5.0**		**5.0***	**VII ***	
1930	09	02	18	58	48	30.0	51.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	05	20	19	16	11	36.5	53.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	09	08	07	25	32	31.0	58.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1933	10	05	13	29	45	35.0	57.7		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1933	11	28	11	09	18	32.0	56.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1934	01	02	20	55	38	30.0	57.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	02	04	13	27	14	30.5	51.7		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1935	**03**	**05**	**10**	**27**		**36.3**	**53.3**		**5.6***	**6.0**		**5.4***	**VII ***	
1935	04	11	23	14	43	36.5	53.5		5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1935	04	12	00	11	14	36.0	53.1	89	5.3*	5.4*		5.5	VII *	SSR
1935	04	12	00	33	39	36.0	52.8	117	5.3*	5.4*		5.5	VII *	SSR
1935	04	12	01	06	35	36.0	53.5	53	5.4*	5.5*		5.6	VII *	SSR
1935	04	12	12	44	30	36.0	53.4	43	5.4*	5.6*		5.7	VIII*	SSR
1935	04	12	22	31	48	36.3	53.5	12	5.3*	5.1*		5.3	VII *	SSR
1935	04	13	02	29	02	36.0	53.5	140	5.2*	4.9*		5.1	VII *	SSR
1935	04	15	23	04	35	35.9	54.0	70	4.9*	4.4*		4.6	VI	SSR
1936	**06**	**30**	**19**	**26**		**33.0**	**60.0**							
1939	01	25	11	02	22	31.0	50.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	04	06	04	08		35.5	54.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	06	10	08	36	41	33.5	56.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	08	28	21	35	36	36.4	58.0	12	5.3*	5.1*		5.3	VII *	SSR
1939	11	08	17	21		36.2	58.0	12	5.4*	5.5*		5.6	VII *	SSR
1940	05	04	21	01	54	35.2	58.2		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1941	**02**	**16**	**16**	**38**		**33.5**	**58.6**		**5.7***	**6.3**		**5.4***	**VII ***	
1944	**04**	**05**				**36.8**	**54.5**							
1944	04	05	18	05	53	36.7	54.5	7	5.0*	4.6*		4.8	VIII	SSR
1945	02	01	19	53	31	36.5	57.7	12	5.2*	5.0*		5.2	VII *	SSR
1947	07	13	14	51	18	36.3	57.5	9	4.9*	4.3*		4.5	VI *	SSR
1947	**09**	**23**	**12**	**28**		**33.0**	**59.0**		**5.9***	**6.8**		**5.6***	**VII ***	
1949	08	28	22	17	39	36.7	57.5	10	5.0*	4.5*		4.7	VII *	SSR
1949	11	05	15	05	45	36.7	54.7	24	5.3*	5.4*		5.5	VII	SSR
1950	02	14	00	05	58	36.7	54.7	94	5.0*	4.6*		4.8	VII *	SSR
1950	05	02	16	42	59	36.5	58.5	10	5.1*	4.7*		4.9	VII *	SSR
1952	10	09	19	12	21	36.6	54.5	15	5.0*	4.6*		4.8	VII *	SSR
1953	**02**	**12**	**08**	**15**		**35.0**	**54.5**		**5.8***	**6.5**		**5.5***	**VII ***	
1953	**02**	**12**	**08**	**15**		**35.4**	**55.1**		**5.8***	**6.4**		**5.5***	**VII ***	
1953	06	06	00	02	24	35.3	58.6	13	4.9*	4.4*		4.6	VII	SSR
1953	12	14	15	12	10	37.3	56.8	12	4.9*	4.3*		4.5	VI *	SSR
1955	08	22	12	19	05	36.6	56.0	10	5.0*	4.5*		4.7	VII *	SSR
1956	06	25	12	52	04	32.0	60.4		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1956	07	07	10	30	33	37.3	56.1	12	4.9*	4.3*		4.5	VI *	SSR
1957	**04**	**23**				**33.4**	**52.5**							
1957	05	06	15	06	51	36.4	51.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1957	**07**	**02**	**00**	**42**		**36.1**	**52.7**	**10**	**6.2***	**7.3**		**5.8***	**VIII***	
1957	07	02	01	16	54	36.2	52.5	13	5.0*	4.6*		4.8	VII *	SSR
1957	07	02	03	45		35.8	52.7	15	5.1*	4.8*		5.0	VII *	SSR
1957	07	02	04	56	10	36.0	52.8	13	4.9*	4.3*		4.5	VI *	SSR
1957	07	02	14	22	43	36.0	52.7	10	4.9*	4.3*		4.5	VI *	SSR
1957	10	25	08	24	20	36.4	53.2	13	4.9*	4.3*		4.5	VI *	SSR
1958	**01**	**16**	**02**	**04**		**36.5**	**53.0**							
1958	01	17	08	30		36.5	52.7	12	4.9*	4.3*		4.5	VI *	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1958	01	22				35.6	58.7	12	4.9*	4.3*		4.5	VI *	SSR
1958	01	28	17	14	53	35.8	58.1	13	5.0*	4.6*		4.8	VII *	SSR
1958	02	27	03	55	15	35.3	58.9	13	5.0*	4.6*		4.8	VII *	SSR
1958	06	25	01	14	04	36.2	52.9	4	4.9*	4.3*		4.5	VI *	SSR
1958	06	26	10	56	18	37.3	56.2	10	4.9*	4.3*		4.5	VI *	SSR
1958	09	23	17	13		37.2	56.1	10	4.9*	4.3*		4.5	VI *	SSR
1958	09	29	17	12	22	37.2	56.1	10	4.9*	4.3*		4.5	VI *	SSR
1959	05	01	08	23	57	36.5	52.0		5.3*	5.3*	5.5 UPP	5.1*	VII *	PDE
1959	10	14	07	28	27	35.5	59.5	10	4.9*	4.3*		4.5	VI *	SSR
1960	06	02	07	22	30	33.5	60.0		5.2*	5.0*	5.3 MOS	5.0*	VII *	PDE
1960	07	04	03	43	35	30.0	52.0		4.8*	4.1*		4.8*	VI	BCI
1960	07	25	21	11	36	32.0	56.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	09	14	12	58	55	36.4	57.7	64	4.9*	4.3*		4.5	VI *	SSR
1961	05	01	01	37	39	35.0	59.0	33	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	05	21	19	44	14	30.1	57.2	32	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1962	07	21	03	07	03	36.8	55.4	50	4.9*	4.3*		4.5	VI *	SSR
1962	07	28	09	02		36.6	54.8	11	4.9	4.5*		4.9	VII *	SSR
1962	09	29	19	23	22	36.0	53.3		4.9*	4.3*	4.5	4.4	VI *	SSR
1962	**10**	**05**	**20**	**02**		**35.2**	**58.8**	**33**						
1962	10	16				35.2	58.4	12	5.0*	4.5*		4.7	VII	SSR
1962	11	03				35.2	58.5	10	4.9*	4.4*		4.6	VII	SSR
1962	12	08	09	02	54	36.6	54.8	33	5.1*	4.8*		5.0	VI	SSR
1963	01	01	19	27	33	35.4	58.9	11	4.9*	4.4*		4.6	VII	SSR
1963	03	01	03	20	02	35.8	59.9	33	4.8	4.3*		4.8*	VII *	PDE
1963	05	03	10	44	30	30.7	51.8	35	5.3	5.1*		5.1*	VII *	PDE
1964	02	08	06	28	26	36.8	50.3	33	4.7	4.2*		4.7*	VII *	PDE
1964	02	16	00	17	16	30.1	51.2	37	5.3	5.1*		5.1*	VII *	PDE
1964	02	21	01	04	01	34.4	58.1	33	5.0	4.6*		4.9*	VII *	PDE
1964	05	15	22	31	57	36.0	58.6		4.9*	4.3*	4.5	4.4	VI *	SSR
1964	11	03	17	36	10	36.0	50.6	33	5.3	5.1*		5.1*	VII *	PDE
1964	12	01	08	21	51	36.8	54.7	33	4.9*	4.3*		4.5	VI *	SSR
1964	12	03	22	32	38	36.6	55.6	33	4.7	4.2*		4.7*	VII *	PDE
1965	02	26	01	37	06	35.1	57.6	33	5.2	5.0*		5.0*	VII *	PDE
1965	04	25	16	39	45	30.4	50.6	34	4.6	4.0*		4.6*	VI *	PDE
1965	05	07	01	03	03	36.2	55.0	33	4.8	4.3*		4.8*	VII *	PDE
1965	06	04	18	40	58	32.4	55.5	18	4.8	4.3*		4.8*	VII *	PDE
1965	09	20	23	23	23	30.5	50.1	47	4.6	4.0*		4.6*	VI *	PDE
1965	12	13	05	07	17	30.9	51.1	33	4.9	4.5*		4.8*	VII *	PDE
1966	02	26	20	50	37	30.5	50.8	57	4.7	4.2*		4.7*	VII *	PDE
1966	06	13	01	03	53	32.2	54.4	56	4.8	4.3*		4.8*	VII *	PDE
1966	10	03	17	05	10	35.7	53.3	33	4.9	4.5*		4.8*	VII *	PDE
1966	11	08	03	14	12	36.1	50.8	38	5.0	4.6*		4.9*	VII *	PDE
1967	01	02	13	50	07	30.6	50.4	47	5.2	5.0*		5.0*	VII *	PDE
1967	02	11	15	18	06	30.5	50.7	39	5.0	4.6*		4.9*	VII *	PDE
1967	02	12	16	46	04	30.3	50.3	33	4.8	4.3*		4.8*	VII *	PDE
1967	03	02	07	55	25	32.0	55.8	33	4.9	4.5*		4.8*	VII *	PDE
1967	03	15	16	25	57	30.0	50.5	42	5.0	4.6*		4.9*	VII *	PDE
1967	05	23	16	59	39	31.0	50.4	33	4.7	4.2*		4.7*	VII *	PDE
1967	07	27	01	40	54	31.7	50.8	65	5.0	4.6*		4.9*	VII *	PDE
1967	08	01	20	40	07	36.6	54.7	10	4.9*	4.3*		4.5	VI *	SSR
1967	11	10	02	50	56	36.0	53.8	33	5.0	4.6*		4.9*	VII *	PDE
1967	11	15	19	35	46	30.7	51.4	10	4.6	4.0*		4.6*	VI *	PDE
1967	11	21	15	04	55	30.8	50.4	33	4.6	4.0*		4.6*	VI *	PDE
1967	12	10	10	52	52	36.0	53.6	51	5.0	4.6*		4.9*	VII *	PDE
1968	04	26	02	58	22	35.1	50.2	21	5.3	5.1*		5.1*	VII *	PDE
1968	05	19	16	49	50	36.3	53.4	33	4.7	4.2*		4.7*	VII *	PDE
1968	07	29	16	03	42	36.5	53.7	14	4.8	4.3*		4.8*	VII *	PDE
1968	**08**	**31**	**10**	**47**		**34.0**	**59.0**	**13**	**6.2***	**7.3**		**5.8***	**VIII***	
1968	08	31	11	34	33	33.9	59.2	24	5.5	5.4*		5.3*	VII *	PDE
1968	08	31	13	22	60	34.1	59.4	33	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1968	08	31	14	06	16	34.1	59.4	18	5.0	4.6*		4.9*	VII *	PDE
1968	09	01	07	27	30	34.0	58.2	15	5.9	6.3		5.6*	VII *	PDE
1968	09	01	11	04	02	34.0	59.6	33	4.8	4.3*		4.8*	VII *	PDE
1968	09	01	19	16	37	34.2	58.3	23	5.0	4.6*		4.9*	VII *	PDE
1968	09	01	21	16	45	34.4	58.0	44	4.8	4.3*		4.8*	VII *	PDE
1968	09	03	09	53	47	33.8	59.2	16	5.0	4.6*		4.9*	VII *	PDE
1968	09	04	05	54	08	35.1	58.5	33	4.7	4.2*		4.7*	VII *	PDE
1968	09	04	08	08	44	33.9	59.2	24	5.0	4.6*		4.9*	VII *	PDE
1968	09	04	11	19	36	33.9	59.1	25	5.1	4.8*		5.0*	VII *	PDE
1968	**09**	**04**	**23**	**24**		**33.9**	**58.2**	**15**	**5.4***	**5.4**		**5.2***	**VII ***	
1968	09	06	02	27	37	34.0	59.3	27	4.9	4.8		4.8*	VII *	PDE
1968	09	10	20	31	59	34.0	59.4	18	4.7	4.2*		4.7*	VII *	PDE
1968	09	11	19	17	13	33.9	59.4	33	5.2	5.4		5.0*	VII *	PDE
1968	09	15	09	42	15	34.0	59.4	20	4.9	4.5*		4.8*	VII *	PDE
1968	09	19	05	15	16	34.4	58.0	48	4.6	4.0*		4.6*	VI *	PDE
1968	11	06	17	06	05	31.7	50.7	42	4.6	4.0*		4.6*	VI *	PDE
1968	12	12	18	54	47	35.8	53.5	33	4.6	4.0*		4.6*	VI *	PDE
1969	01	26	02	25	56	36.8	54.5	48	4.8	4.3*		4.8*	VII *	PDE
1969	06	28	22	32	16	32.3	56.1	33	4.7	4.2*		4.7*	VII *	PDE
1969	08	23	19	16	18	33.9	58.9	32	5.1	4.8*		5.0*	VII *	PDE
1969	09	02	13	30	04	30.2	57.7	20	5.3	5.1*		5.1*	VII *	PDE
1969	09	03	23	39	03	34.3	58.3	33	4.8	4.3*		4.8*	VII *	PDE
1969	09	25	15	25	29	36.7	55.1	32	5.1	4.8*		5.0*	VII *	PDE
1969	11	11	00	30	35	33.4	55.0	33	5.0	4.6*		4.9*	VII *	PDE
1969	12	02	22	46	16	33.9	58.6	33	5.1	4.8*		5.0*	VII *	PDE
1970	01	20	11	00	13	30.7	51.4	25	4.9	4.5*		4.8*	VII *	PDE
1970	01	27	14	05	52	36.8	54.9	35	5.1	4.8*		5.0*	VII *	PDE
1970	03	01	20	12	45	34.0	58.9	39	5.2	5.0*		5.0*	VII *	PDE
1970	03	17	23	19	42	33.9	59.7	19	5.0	4.6*		4.9*	VII *	PDE
1970	06	27	07	57	53	35.2	50.7	14	4.9	4.5*		4.8*	VI	PDE
1970	08	30	16	17	31	37.4	56.0	33	5.1	4.8*		5.0*	VII *	PDE
1971	02	09	16	07	05	36.5	55.2	10	4.9*	4.3*		4.5	VI *	SSR
1971	02	14	16	27	36	36.6	55.6	39	5.2	5.3		5.0*	VII *	PDE
1971	03	16	05	28	06	36.8	54.5	12	5.0	4.6*		5.3	VII *	SSR
1971	04	30	09	06	17	34.6	50.3	42	4.7	4.2*		4.7*	VII *	PDE
1971	05	22	14	02	08	35.6	58.3	36	4.8	4.3*		4.8*	VII *	PDE
1971	05	26	02	41	46	35.5	58.2	26	5.4	5.4		5.2*	VII *	PDE
1971	07	24	00	49	22	30.4	59.9	56	5.0	4.6*		4.9*	VII *	PDE
1971	**08**	**09**	**02**	**54**		**36.3**	**52.7**	**27**	**5.3***	**5.3**		**5.1***	**VII ***	
1971	08	22	17	54	15	30.1	50.7	33	5.1	4.8*		4.5 MOX	VI *	PDE
1971	08	27	05	20	15	30.2	50.7	54	5.0	4.6*		4.9*	VII *	PDE
1971	09	02	12	24	23	30.5	50.3	33	4.8	4.3*		4.8*	VII *	PDE
1971	09	02	18	24	47	30.1	50.8	45	5.1	4.8*		5.0*	VII *	PDE
1971	09	02	22	21	39	30.1	50.8	39	5.0	4.6*		4.9*	VII *	PDE
1971	09	04	13	42	20	30.1	50.9	30	4.6	4.0*		4.6*	VI *	PDE
1971	09	16	14	20	33	34.9	58.1		4.9*	4.3*	4.5	4.4	VI *	SSR
1971	12	15	15	24	57	30.2	50.6	42	4.9	4.5*		4.8*	VII *	PDE
1972	01	06	09	41	33	30.3	50.5	41	5.2	5.0*		5.0*	VII *	PDE
1972	02	23	23	13	42	36.5	53.4	11	4.9*	4.4*		4.6	VI *	SSR
1972	05	20	18	52	31	37.3	56.1		4.9*	4.3*	4.5	4.4	VI *	SSR
1972	07	02	12	56	07	30.1	50.8	31	5.4	5.3		5.2*	VII *	PDE
1972	07	02	14	05	06	30.0	50.8	31	4.6	4.0*		4.6*	VI *	PDE
1972	07	03	02	10	00	30.1	50.8	38	5.0	4.6*		4.9*	VII *	PDE
1972	07	03	21	38	22	30.0	51.0	43	5.1	4.8*		5.0*	VII *	PDE
1972	08	06	07	00	56	31.8	50.1	37	5.0	4.6*		4.9*	VII *	PDE
1972	08	08	00	44	55	36.3	52.6	47	4.7	4.2*		4.7*	VII *	PDE
1972	11	10	04	45	12	30.3	57.6	33	4.7	4.2*		4.7*	VII *	PDE
1972	12	01	11	39	04	35.4	57.9	33	5.4	5.2		5.2*	VII *	PDE
1973	01	19	05	49	36	36.6	57.2	42	4.9*	4.3*		4.5	IV	SSR
1973	05	05	06	12	36	33.3	57.4	33	4.6	4.0*		4.6*	VI *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1973	05	11	13	52	32	33.4	57.4	50	5.1	4.8*		5.0*	VII *	PDE
1973	05	17	16	11	37	35.5	57.8	45	4.9	4.5*		4.8*	VII *	PDE
1973	05	22	00	50	12	35.3	57.1	45	5.1*	4.8*		5.0	VII *	SSR
1973	08	02	19	56	27	37.3	56.5	36	5.3	5.1*		5.1*	VII *	PDE
1973	08	02	20	28	56	37.3	56.5	34	4.8	4.3*		4.8*	VII *	PDE
1973	08	23	12	26	25	31.8	50.9	41	5.0	4.6*		4.9*	VII *	PDE
1973	08	28	12	27	27	32.0	50.9	68	4.8	4.3*		4.8*	VII *	PDE
1973	09	17	04	06	04	36.5	51.1	47	4.8	4.3*		4.8*	VII *	PDE
1973	09	22	09	21	11	30.5	59.9	33	4.6	4.0*		4.6*	VI *	PDE
1973	11	11	07	14	52	30.6	52.9	11	5.5	5.4*		5.3*	VII *	PDE
1973	11	20	02	33	18	32.0	54.5	45	5.0	4.6*		4.9*	VII *	PDE
1974	06	17	07	22	49	33.7	57.0	35	4.8	4.3*		4.8*	VII *	PDE
1974	08	02	08	23	44	30.5	50.6	44	4.8	4.3*		4.8*	VII *	PDE
1974	11	17	15	05	48	32.8	55.1	43	5.2	5.0*		5.0*	VII *	PDE
1975	04	11	14	26	45	35.5	50.2	50	4.7	4.2*		4.7*	VII *	PDE
1975	04	28	02	01	17	33.3	54.8	42	5.3	5.1*		5.1*	VII *	PDE
1975	05	09	18	01	46	30.2	52.0	57	4.9	4.5*		4.8*	VII *	PDE
1975	09	21	14	16	38	31.6	51.0	33	5.2	5.0		5.0*	VII *	PDE
1975	11	06	04	09	31	35.9	53.0	3	4.7	4.2*		4.7*	VII *	PDE
1975	12	28	09	06	32	36.6	58.0		4.9*	4.3*	4.5	4.4	VI *	SSR
1976	01	07	21	35	04	37.3	56.4	20	4.9*	4.3*	4.5	4.8	VII *	SSR
1976	01	16	05	36	19	30.2	50.8	32	4.9	4.5*		4.8*	VII *	PDE
1976	02	20	13	37	53	30.6	50.3	37	4.7	4.2*		4.7*	VII *	PDE
1976	03	31	23	38	59	34.7	57.2	23	4.7	4.2*		4.7*	VII *	PDE
1976	09	06	16	04	45	31.1	50.4	39	5.0	4.6*		4.9*	VII *	PDE
1976	10	15	23	03	26	30.0	52.0	8	5.1	4.8*		5.0*	VII *	PDE
1976	10	18	10	20	12	30.1	52.0	20	5.1	4.8*		5.0*	VII *	PDE
1976	**11**	**07**	**04**	**00**		**33.8**	**59.1**	**13**	**5.7***	**6.2**		**5.4***	**VII ***	
1976	11	09	17	59	54	33.8	59.2	29	5.1	4.8*		5.0*	VII *	PDE
1977	01	07	07	15	58	30.7	50.7	67	4.6	4.0*		4.6*	VI *	PDE
1977	04	02	22	16	11	32.2	56.6	33	4.7	4.2*		4.7*	VII *	PDE
1977	**04**	**06**	**13**	**36**		**31.9**	**50.6**	**41**	**5.6***	**5.9**		**5.3***	**VII ***	
1977	04	12	23	12	05	32.0	50.7	33	4.9	4.5*		4.8*	VII *	PDE
1977	05	02	15	17	49	37.0	55.2	19	5.3	5.1*		5.1*	VII *	PDE
1977	05	03	16	26	58	31.7	56.2	42	5.0	4.6*		4.9*	VII *	PDE
1977	05	04	02	01	26	31.8	50.9	46	4.8	4.3*		4.8*	VII *	PDE
1977	05	25	11	01	46	34.9	52.1	26	5.4	4.3		5.2*	VII *	PDE
1977	09	17	05	25	06	30.9	56.6	33	4.8	5.6		4.8*	VII *	PDE
1977	10	21	14	56	07	31.8	50.8	33	5.0	4.6*		4.9*	VII *	PDE
1977	10	26	17	02	51	31.5	51.2	48	4.7	4.2*		4.7*	VII *	PDE
1977	11	09	11	20	33	36.7	55.0	33	4.9	4.5*		4.8*	VII *	PDE
1977	11	10	13	52	35	34.0	59.4	23	4.7	4.2*		4.7*	VII *	PDE
1977	11	10	14	09	34	31.4	56.9	33	4.8	4.3*		4.8*	VII *	PDE
1977	**12**	**19**	**23**	**34**		**30.9**	**56.4**	**31**	**5.5***	**5.8**		**5.3***	**VII ***	
1978	01	08	02	55	48	30.2	50.9	33	4.8	4.3*		4.8*	VII *	PDE
1978	01	15	07	03	19	30.2	50.6	33	4.7	4.2*		4.7*	VII *	PDE
1978	04	12	16	46	23	31.8	50.6	34	4.8	5.0		4.8*	VII *	PDE
1978	05	22	06	18	15	31.8	56.2	34	5.0	5.3		4.9*	VII *	PDE
1978	05	23	11	31	43	31.9	56.2	25	5.0	4.6*		4.9*	VII *	PDE
1978	06	14	16	25	34	38.0	56.3	20	4.8	4.3*		4.8*	VII *	PDE
1978	**09**	**16**	**15**	**35**		**33.2**	**57.4**	**33**	**6.3***	**7.7**		**5.9***	**VIII***	
1978	09	16	18	25	47	33.8	57.2	33	4.6	4.0*		4.6*	VI *	PDE
1978	09	16	18	45	14	33.9	57.1	16	4.8	4.3*		4.8*	VII *	PDE
1978	09	16	19	50	21	33.7	57.1	33	4.9	4.5*		4.8*	VII *	PDE
1978	09	17	07	35	50	33.1	56.9	33	4.7	4.2*		4.7*	VII *	PDE
1978	09	17	08	17	25	33.7	57.0	33	5.0	4.6*		4.9*	VII *	PDE
1978	09	17	12	43	26	34.1	57.6	33	4.7	4.1		4.7*	VII *	PDE
1978	09	18	04	50	02	33.5	57.3	23	4.7	4.2		4.7*	VII *	PDE
1978	09	18	17	35	08	33.7	56.9	33	4.9	4.5*		4.8*	VII *	PDE
1978	11	06	16	49	55	33.4	57.4	11	4.6	4.0*		4.6*	VI *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1978	11	06	23	14	09	33.6	57.1	33	4.6	4.0*		4.6*	VI •	PDE
1978	11	06	23	46	42	33.2	54.9	33	4.7	4.2*		4.7*	VII *	PDE
1978	12	06	17	18	14	33.3	57.2	28	5.3	5.1*		5.1*	VII *	PDE
1978	12	06	20	38	09	33.2	57.1	20	4.6	4.0*		4.6*	VI •	PDE
1979	01	10	16	28	16	33.5	57.2	33	4.7	4.2*		4.7*	VII *	PDE
1979	**01**	**16**	**09**	**50**		**33.9**	**59.5**	**33**	**5.9***	**6.7**		**5.6***	**VII •**	
1979	01	17	03	29	50	33.8	57.1	33	5.1	4.8*		5.0*	VII •	PDE
1979	01	17	07	52	43	34.0	59.4	33	4.7	4.2*		4.7*	VII *	PDE
1979	01	18	00	25	03	33.9	59.5	33	5.0	4.6		4.9*	VII *	PDE
1979	01	19	19	29	45	33.9	59.4	33	5.0	4.3		4.9*	VII *	PDE
1979	01	29	13	49	24	33.9	59.4	33	4.6	4.0*		4.6*	VI *	PDE
1979	02	13	10	36	17	33.3	57.4	33	5.5	4.8		5.3*	VII *	PDE
1979	02	24	13	56	51	37.2	56.6	31	4.7	4.2*		4.7*	VII *	PDE
1979	04	05	03	45	34	33.5	57.1	33	4.6	4.0*		4.6*	VI *	PDE
1979	04	23	17	24	18	33.9	59.5	16	4.6	4.0*		4.6*	VI *	PDE
1979	05	27	06	43	15	33.2	57.3	10	4.7	3.9		4.7*	VII *	PDE
1979	07	05	04	46	12	33.7	57.1	33	4.7	4.2*		4.7*	VII *	PDE
1979	08	19	12	23	15	30.4	50.9	33	4.9	4.5*		4.8*	VII *	PDE
1979	08	30	17	11	60	37.4	56.3	33	4.9	4.5*		4.8*	VII *	PDE
1979	09	03	02	07	12	36.7	55.0	26	4.7	4.2*		4.7*	VII *	PDE
1979	09	05	09	26	54	33.8	57.0	33	5.2	5.0*		5.0*	VII *	PDE
1979	11	14	02	21	22	33.9	59.7	33	6.0	6.6	6.8 PAS	5.6*	VIII*	PDE
1979	11	14	02	50	18	33.9	59.8	33	4.9	4.5*		4.8*	VII *	PDE
1979	11	14	04	18	28	34.1	59.6	33	4.8	4.3*		4.8*	VII *	PDE
1979	11	14	07	43	40	33.8	59.9	33	4.6	4.0*		4.6*	VI *	PDE
1979	11	15	03	25	29	33.8	59.7	42	4.8	4.0		4.8*	VII •	PDE
1979	11	15	05	06	55	33.9	59.8	33	5.0	4.0		4.9*	VII *	PDE
1979	11	23	18	22	48	34.0	59.8	33	5.0	4.5		4.9*	VII *	PDE
1979	11	27	07	12	36	34.0	59.8	17	5.0	4.6*		4.9*	VII •	PDE
1979	**11**	**27**	**17**	**10**		**34.1**	**59.9**	**10**	**6.2***	**7.3**		**5.8***	**VIII***	
1979	11	27	17	35	51	34.3	60.0	10	4.6	4.0*		4.6*	VI *	PDE
1979	11	27	18	04	58	34.0	59.5	10	4.6	4.0*		4.6*	VI •	PDE
1979	11	28	03	56	50	34.3	60.1	10	4.7	4.0		4.7*	VII *	PDE
1979	12	02	06	10	50	33.6	57.1	33	4.8	4.3*		4.8*	VII *	PDE
1979	12	07	09	24	00	34.0	59.8	31	5.8	6.0	6.3 PAS	5.5*	VII *	PDE
1979	12	07	09	54	49	34.0	59.9	27	4.8	4.3*		4.8*	VII *	PDE
1979	12	07	10	45	09	34.1	59.8	33	4.6	4.0*		4.6*	VI *	PDE
1979	12	09	09	12	07	35.1	56.8	48	5.2	5.3		5.0*	VII *	PDE
1979	12	16	22	35	40	34.0	59.3	33	5.0	4.7		4.9*	VII •	PDE
1979	12	25	16	44	04	34.1	59.8	10	4.9	4.5*		4.1 MHI	VI *	PDE
1979	12	30	13	08	02	31.7	55.2	33	4.6	4.0*		4.6*	VI *	PDE
1980	01	03	22	06	07	31.9	50.3	33	4.6	4.0*		4.6*	VI *	PDE
1980	01	12	15	31	42	33.5	57.2	33	5.4	5.9		5.2*	VII *	PDE
1980	01	30	19	36	25	34.0	59.3	10	4.6	4.0		4.6*	VI *	PDE
1980	04	14	10	04	30	33.9	59.4	33	4.6	4.0*		4.6*	VI *	PDE
1980	10	22	04	52	48	30.2	50.7	33	4.7	4.2*		4.7*	VII *	PDE
1980	10	31	04	06	51	35.6	58.6	33	4.6	3.9		4.6*	VI *	PDE
1980	**12**	**19**	**01**	**17**		**34.5**	**50.7**	**32**	**5.5***	**5.7**		**5.3***	**VII •**	
1980	12	22	12	51	21	34.5	50.6	41	5.5	5.2		5.3*	VII *	PDE
1981	06	12	10	45	15	30.0	58.0	33	4.6	4.0*		4.6*	VI •	PDE
1981	06	12	11	45	01	30.0	58.1	33	4.7	4.2*		4.7*	VII *	PDE
1981	**07**	**28**	**17**	**22**		**30.0**	**57.8**	**33**	**6.2***	**7.3**		**5.8***	**VIII***	
1981	07	28	18	30	28	30.2	57.5	33	4.7	4.2*		4.7*	VII *	PDE
1981	07	28	19	05	55	30.2	57.5	33	4.9	4.5*		4.8*	VII *	PDE
1981	07	28	21	54	23	30.0	57.7	33	4.9	4.5*		4.8*	VII *	PDE
1981	07	29	04	33	16	30.1	57.7	33	4.7	4.2*		4.7*	VII *	PDE
1981	07	29	05	04	45	30.1	57.5	33	4.7	4.2*		4.7*	VII *	PDE
1981	07	29	05	11	43	30.6	57.5	33	4.6	4.3		4.6*	VI *	PDE
1981	08	02	13	37	27	30.2	57.6	33	4.6	4.0*		4.6*	VI *	PDE
1981	08	03	02	55	45	30.0	57.6	33	4.6	4.0*		4.6*	VI *	PDE

FLINN-ENGDAHL REGION: 348 IRAN (CONT.)

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1981	08	09	13	08	17	36.8	55.2	31	4.8	4.9		4.8*	VII *	PDE
1981	08	20	19	02	08	30.1	57.5	27	4.6	4.2		4.6*	VI *	PDE
1981	09	26	07	33	25	30.2	57.6	33	4.8	4.3*		4.8*	VII *	PDE
1981	11	28	06	42	40	30.9	50.6	36	4.6	3.9		4.6*	VI *	PDE
1982	01	02	19	00	49	30.7	57.5	33	5.0	4.6*		4.9*	VII *	PDE
1982	02	20	21	24	36	30.5	50.4	33	4.7	4.5		4.7*	VII *	PDE
1982	02	25	23	51	59	30.1	58.0	33	4.6	4.0*		4.6*	VI *	PDE
1982	06	14	15	33	49	30.1	57.7	33	4.7	4.2*		4.7*	VII *	PDE
1982	09	05	06	14	08	31.9	50.4	33	4.7	4.2*		4.7*	VII *	PDE
1982	10	25	16	54	51	35.2	52.4	33	4.6	5.4		4.6*	VI *	PDE
1982	12	08	19	34	21	30.6	57.6	33	4.8	4.3*		4.8*	VII *	PDE
1982	12	19	19	40	53	30.6	57.5	40	5.0	5.9		4.9*	VII *	PDE
1983	01	01	21	54	30	30.3	50.8	33	4.9	4.5*		4.8*	VII *	PDE
1983	01	07	22	28	39	30.3	50.8	33	4.8	4.3*		4.8*	VII *	PDE
1983	**03**	**25**	**11**	**58**		**36.0**	**52.3**	**33**	**5.2***	**5.1**		**5.1***	**VII •**	
1983	03	26	04	07	20	36.0	52.2	33	5.4	4.7		5.2*	VII *	PDE
1983	04	15	06	18	46	30.6	50.2	41	4.7	4.2*		4.7*	VII *	PDE
1983	05	03	13	30	26	33.2	57.3	33	4.7	4.2*		4.7*	VII •	PDE
1983	09	23	01	08	12	36.8	55.1	33	4.6	4.0*		4.6*	VI *	PDE
1983	12	20	22	21	06	36.8	50.8	42	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 349 NORTHWESTERN AFGHANISTAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1982	10	17	21	58	25	34.0	62.2	33	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 351 EASTERN ARABIAN PENINSULA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1924	04	20	14	27	04	15.0	52.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1931	07	05	17	57		29.9	48.5	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1971	03	03	02	15	58	22.1	59.2	35	5.1	4.8*		5.0*	VII *	PDE
~~1971~~	~~04~~	~~03~~	~~19~~	~~00~~	~~54~~	~~22.3~~	~~48.1~~	~~30~~	~~4.9*~~	~~4.4*~~	~~4.6~~	~~4.8*~~	~~VII *~~	~~BRG~~

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 353 SOUTHERN IRAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1913	**03**	**24**				**27.5**	**53.8**							
1923	**09**	**22**	**20**	**47**		**29.5**	**56.4**		**5.9***	**6.7**		**5.6***	**VII ***	
1923	**09**	**22**	**20**	**48**		**29.0**	**56.5**		**6.0***	**6.9**		**5.6***	**VIII***	
1926	05	19	21	13	55	26.5	59.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1927	05	09	10	31	47	27.5	56.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1927	07	07	20	06	30	27.0	62.0	100	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1929	10	29	05	53	39	27.5	54.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1930	04	15	09	56	27	29.0	54.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1930	05	11	22	35	46	27.5	55.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1931	05	05	06	42	15	26.5	54.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	07	28	17	36	25	29.5	52.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1933	02	21	19	02	59	27.5	57.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	**06**	**13**	**22**	**10**		**27.5**	**62.5**	**80**	**6.0***	**7.0**		**5.7***	**VIII***	
1934	06	13	22	10	28	27.5	62.5	80	5.9*	6.8*	7.0	5.6*	VII *	BDA
1945	**11**	**27**	**21**	**57**		**25.0**	**60.5**		**6.5***	**8.2**		**6.0***	**VIII***	
1947	10	03	06	13	51	27.5	58.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1950	**01**	**19**	**17**	**27**		**27.3**	**53.2**							
1951	08	16	23	52	10	28.0	57.0		5.4*	5.5*	5.7 ROM	5.2*	VII *	ISS
1953	**01**	**15**	**21**	**56**		**28.5**	**52.3**							
1954	02	28	21	24	43	27.0	56.0		5.1*	4.8*	5.0 JER	5.0*	VII *	BCI
1956	02	15	15	49	25	27.9	52.9		5.3*	5.3*	5.5 UPP	5.1*	VII *	ISS
1956	03	01	12	47	56	27.8	53.0		5.3*	5.3*	5.5 MOS	5.1*	VII *	ISS
1956	03	06	08	55	28	27.8	52.8		5.4*	5.6*	5.8 UPP	5.2*	VII *	ISS
1956	03	09	16	44	54	28.0	52.8		5.2*	5.1*	5.3 UPP	5.1*	VII *	BCI
1956	06	29	02	18	32	28.6	57.2		4.9*	4.3*	4.5 MOS	4.8*	VII *	ISS
1956	**10**	**31**	**14**	**03**		**27.0**	**54.5**		**5.9***	**6.8**		**5.6***	**VII ***	
1957	09	05	11	36	05	28.5	53.6		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1958	03	01	09	26	46	28.0	54.5		5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1958	04	09	04	36	29	29.0	52.0		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	**04**	**24**	**12**	**14**		**28.0**	**54.5**		**5.6***	**6.0**		**5.4***	**VII ***	
1960	05	03	06	59	04	29.5	55.0		5.3*	5.2*		5.1*	VIII	PDE
1960	05	18	08	40	57	27.0	52.5		5.2*	5.0*	5.3 MOS	5.0*	VII *	PDE
1960	05	20	04	14	33	27.5	53.0	100	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	07	10	13	49	21	26.5	53.0		5.1*	4.8*	5.0 MOS	5.0*	VII *	BCI
1960	07	31	22	26	49	28.0	55.0		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	08	01	02	20	50	28.0	54.3	67	5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1961	04	06	18	12	41	27.9	56.7	36	5.8*	6.4*	6.6 QUE	5.5*	VII *	PDE
1961	06	05	03	30	56	27.9	55.1	30	5.2*	5.1*	5.3 MOS	5.1*	VII *	PDE
1961	**06**	**11**	**05**	**10**		**27.9**	**54.5**		**6.1***	**7.2**		**5.7***	**VIII***	
1961	06	11	05	30	15	27.8	55.0	62	5.4*	5.6*	5.8 TEH	5.2*	VII *	PDE
1961	06	11	06	46	58	27.7	55.1	41	5.1*	4.9*	5.1 TEH	5.0*	VII *	PDE
1961	06	11	06	51	30	27.8	54.9	49	5.1*	4.9*	5.1 TEH	5.0*	VII *	PDE
1961	06	11	09	21	39	27.8	55.0	48	5.0*	4.5*	4.7 TEH	4.9*	VII *	PDE
1961	06	11	11	24	09	28.1	54.7	33	5.0*	4.6*	4.8 TEH	4.9*	VII *	PDE
1961	06	11	12	30	24	27.8	54.4	35	5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1961	06	11	12	31	27	28.2	54.6	36	5.5*	5.7*	5.9 TEH	5.2*	VII *	PDE
1961	06	11	13	57	58	27.8	54.6	34	5.3*	5.4*	5.6 TEH	5.2*	VII *	PDE
1961	06	11	15	06	17	27.8	54.5	39	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1961	06	14	00	24	27	27.9	55.0	36	5.4*	5.5*	5.8 MOS	5.2*	VII *	PDE
1961	06	14	09	03	37	28.0	55.0	34	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	06	17	08	05	53	27.9	55.0	38	5.1*	4.7*	4.9 MOS	4.9*	VII *	PDE
1961	06	18	10	10	09	27.8	55.2	33	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	06	21	06	39	23	27.8	54.8	40	5.2*	5.0*	5.3 MOS	5.0*	VII *	PDE
1961	06	23	16	36	23	27.6	55.1	32	5.4*	5.6*	5.8 UPP	5.2*	VII *	PDE
1961	06	25	12	40	24	27.9	53.7	54	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	07	09	08	05	46	29.0	54.7	25	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1961	10	22	22	56	32	27.5	54.6	33	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1961	10	23	04	40	22	27.9	54.5	33	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1963	05	02	01	58	26	28.5	54.9	46	5.9	6.1*		5.6*	VII *	PDE
1963	05	29	00	47	44	28.1	52.4	7	6.2	6.6*		5.8*	VIII*	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1963	05	29	08	35	04	27.0	59.4	52	5.2	5.0*		5.0*	VII *	PDE
1963	07	08	08	58	05	26.7	55.7	33	4.8	4.3*		4.8*	VII *	PDE
1963	07	13	08	24	25	29.6	51.0	44	5.0	4.6*		4.9*	VII *	PDE
1963	07	29	06	10	23	27.8	55.6	37	5.2	5.0*		5.0*	VII *	USE
1963	08	10	04	27	34	28.1	53.3	46	4.8	4.3*		4.8*	VII *	PDE
1963	08	12	07	19	55	27.7	53.2	33	5.0	4.6*		4.9*	VII *	PDE
1963	09	22	10	40	56	29.3	55.3	33	4.7	4.2*		4.7*	VII *	PDE
1963	09	23	18	33	47	29.6	50.9	39	4.7	4.2*		4.7*	VII *	PDE
1963	10	16	19	02	25	28.8	58.0	32	4.8	4.3*		4.8*	VII *	PDE
1963	10	31	09	57	01	27.4	55.6	35	5.3	5.1*		5.1*	VII *	PDE
1963	11	18	01	42	56	29.3	57.0	33	5.0	4.6*		4.9*	VII *	PDE
1964	01	19	09	13	54	26.9	54.0	33	5.6	5.6*		5.3*	VII *	PDE
1964	02	14	15	51	12	29.2	54.5	47	4.7	4.2*		4.7*	VII *	PDE
1964	02	26	09	16	55	27.3	54.5	33	4.6	4.0*		4.6*	VI *	PDE
1964	03	11	23	34	21	27.7	57.5	42	4.6	4.0*		4.6*	VI *	PDE
1964	03	20	03	15	46	28.2	55.0	43	5.8	5.9*		5.5*	VII *	PDE
1964	05	11	06	07	42	28.3	57.4	62	4.9	4.5*		4.8*	VII *	PDE
1964	07	22	04	41	55	27.6	55.0	64	4.9	4.5*		4.8*	VII *	PDE
1964	08	12	02	34	24	27.2	56.4	44	4.7	4.2*		4.7*	VII *	PDE
1964	08	19	09	33	10	28.2	52.6	50	5.6	5.6*		5.3*	VII *	PDE
1964	08	19	15	20	14	28.2	52.7	52	5.6	5.6*		5.3*	VII *	PDE
1964	08	20	05	08	50	28.1	52.6	47	5.1	4.8*		5.0*	VII *	PDE
1964	08	20	05	39	48	28.2	52.6	52	5.5	5.4*		5.3*	VII *	PDE
1964	08	21	07	59	17	28.3	52.5	54	4.9	4.5*		4.8*	VII *	PDE
1964	08	27	11	58	41	28.2	55.7	69	5.1	4.8*		5.0*	VII *	PDE
1964	08	27	12	56	46	27.5	55.9	33	5.3	5.1*		5.1*	VII *	PDE
1964	09	14	15	21	09	28.0	55.8	33	4.8	4.3*		4.8*	VII *	PDE
1964	10	18	13	20	20	29.7	50.8	33	4.9	4.5*		4.8*	VII *	PDE
1964	10	18	21	25	30	28.0	54.7	61	4.8	4.3*		4.8*	VII *	PDE
1964	10	18	22	35	46	29.7	51.0	36	4.8	4.3*		4.8*	VII *	PDE
1964	11	08	10	33	28	29.7	51.0	40	4.8	4.3*		4.8*	VII *	PDE
1964	12	11	05	25	58	28.1	52.8	61	5.0	4.6*		4.9*	VII *	PDE
1964	12	19	23	31	57	28.0	56.9	50	5.3	5.1*		5.1*	VII *	PDE
1964	12	22	04	36	35	28.2	57.0	42	5.5	5.4*		5.3*	VII *	PDE
1964	12	23	10	52	18	27.9	57.0	33	4.8	4.3*		4.8*	VII *	PDE
1965	03	17	07	18	56	27.8	56.5	60	4.9	4.5*		4.8*	VII *	PDE
1965	04	19	01	20	04	28.2	56.6	33	4.7	4.2*		4.7*	VII *	PDE
1965	04	26	22	04	38	27.3	52.3	33	4.9	4.5*		4.8*	VII *	PDE
1965	06	18	13	49	36	29.8	51.3	56	4.6	4.0*		4.6*	VI *	PDE
1965	**06**	**21**	**00**	**21**		**28.1**	**55.9**	**33**	**5.3***	**5.3**		**5.1***	**VII ***	
1965	06	21	01	30	39	28.4	55.8	59	5.0	4.6*		4.9*	VII *	PDE
1965	07	30	19	07	03	27.9	57.0	33	4.7	4.2*		4.7*	VII *	PDE
1965	11	08	01	57	27	27.9	56.9	56	5.3	5.1*		5.1*	VII *	PDE
1965	12	23	11	10	01	27.7	54.6	42	4.8	4.3*		4.8*	VII *	PDE
1966	06	09	22	24	44	27.6	52.7	39	5.1	4.8*		5.0*	VII *	PDE
1966	07	29	08	20	46	28.5	51.7	33	4.8	4.3*		4.8*	VII *	PDE
1966	09	02	11	12	59	27.7	52.4	22	4.9	4.5*		4.8*	VII *	PDE
1966	09	18	20	43	54	27.9	54.3	18	5.9	6.1*		5.6*	VII *	PDE
1966	09	24	10	00	47	27.4	54.6	38	5.3	5.1*		5.1*	VII *	PDE
1966	09	29	17	44	34	27.8	54.3	20	5.1	4.8*		5.0*	VII *	PDE
1966	12	02	03	07	51	28.2	53.6	22	4.9	4.5*		4.8*	VII *	PDE
1967	01	08	01	43	47	27.8	55.7	53	4.6	4.0*		4.6*	VI *	PDE
1967	01	09	01	55	15	27.6	54.5	30	5.3	5.1*	6.1 UPP	5.1*	VII *	PDE
1967	01	12	18	14	22	28.0	54.4	49	4.8	4.3*		4.8*	VII *	PDE
1967	01	15	00	03	14	29.8	51.5	33	4.7	4.2*		4.7*	VII *	PDE
1967	01	29	03	53	58	26.5	55.2	26	5.0	4.6*	5.7 UPP	4.9*	VII *	PDE
1967	01	29	07	05	59	26.5	55.3	43	4.9	4.5*		4.8*	VII *	PDE
1967	01	29	07	12	05	26.5	55.3	33	4.7	4.2*		4.7*	VII *	PDE
1967	01	29	07	56	40	26.5	55.3	44	5.0	4.6*	5.8 UPP	4.9*	VII *	PDE
1967	01	29	13	20	26	26.4	55.3	9	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1967	01	31	19	00	26	26.6	55.2	37	5.1	4.8*	5.7 UPP	5.0*	VII *	PDE
1967	01	31	20	06	36	26.4	55.3	20	5.0	4.6*		4.9*	VII *	PDE
1967	02	01	01	07	19	26.6	55.2	20	4.9	4.5*	5.7 UPP	4.8*	VII *	PDE
1967	03	01	10	12	48	28.0	56.8	33	5.1	4.8*		5.0*	VII *	PDE
1967	03	25	22	26	27	28.6	60.4	43	4.8	4.3*		4.8*	VII *	PDE
1967	04	06	12	57	14	29.9	51.0	22	5.2	5.0*	5.8 UPP	5.0*	VII *	PDE
1967	04	28	19	38	27	27.7	57.2	40	4.7	4.2*		4.7*	VII *	PDE
1967	05	20	21	48	53	29.7	52.2	22	4.8	4.3*		4.8*	VII *	PDE
1967	09	14	14	49	42	28.4	57.1	33	4.7	4.2*		4.7*	VII *	PDE
1968	01	02	11	59	32	29.4	52.6	26	5.0	4.6*		4.9*	VII *	PDE
1968	01	10	10	43	48	27.4	56.2	55	4.6	4.0*		4.6*	VI *	PDE
1968	03	26	04	42	20	29.6	51.4	33	4.9	4.5*		4.8*	VII *	PDE
1968	04	23	12	39	47	27.7	56.7	52	5.1	4.8*		5.0*	VII *	PDE
1968	05	30	01	10	30	27.8	54.0	27	5.2	5.0*		5.0*	VII *	PDE
1968	05	30	19	53	06	29.7	51.3	32	5.2	5.0*		5.0*	VII *	PDE
1968	06	13	23	04	00	29.7	51.5	33	5.0	4.6*		4.9*	VII *	PDE
1968	06	22	15	56	47	29.6	51.5	32	4.8	4.3*		4.8*	VII *	PDE
1968	06	23	09	16	19	29.8	51.2	34	5.2	5.0*		5.0*	VII *	PDE
1968	06	26	01	54	15	29.8	51.1	33	4.9	4.5*		4.8*	VII *	PDE
1968	07	01	23	42	21	29.9	51.5	33	4.7	4.2*		4.7*	VII *	PDE
1968	07	08	17	15	28	29.7	51.1	44	4.9	5.1		4.8*	VII *	PDE
1968	07	12	10	34	03	29.8	50.6	25	4.8	4.3*		4.8*	VII *	PDE
1968	08	02	13	30	23	27.5	60.9	62	5.7	5.8*		5.4*	VII *	PDE
1968	08	26	05	59	10	26.7	55.0	33	4.6	4.0*		4.6*	VI *	PDE
1968	09	14	13	48	31	28.4	53.1	33	5.8	5.6		5.5*	VII *	PDE
1968	09	14	19	20	23	28.4	53.2	44	5.1	4.8*		5.0*	VII *	PDE
1968	09	19	22	12	38	28.4	53.2	34	5.1	4.8*		5.0*	VII *	PDE
1968	09	19	23	35	56	28.3	53.1	33	4.8	4.3*		4.8*	VII *	PDE
1969	02	08	23	23	35	29.9	50.9	52	5.1	4.8*		5.0*	VII *	PDE
1969	04	14	13	13	22	27.8	54.7	44	5.0	4.6*		4.9*	VII *	PDE
1969	04	29	04	37	41	29.6	51.5	36	5.6	5.6*		5.3*	VII *	PDE
1969	05	12	19	09	09	27.8	56.5	50	4.9	4.5*		4.8*	VII *	PDE
1969	06	01	12	36	30	26.7	60.6	50	4.7	4.2*		4.7*	VII *	PDE
1969	06	04	16	21	35	25.6	61.1	33	4.7	4.2*		4.7*	VII *	PDE
1969	06	21	16	35	08	27.4	57.5	65	5.3	5.1*		5.1*	VII *	PDE
1969	07	01	06	00	55	28.2	55.4	95	4.8	4.3*		4.8*	VII *	PDE
1969	07	20	22	37	30	28.2	57.3	57	4.9	4.5*		4.8*	VII *	PDE
1969	11	03	21	53	16	26.7	53.7	8	5.0	4.6*		4.9*	VII *	PDE
1969	11	06	04	36	01	26.3	53.7	33	5.0	4.6*		4.9*	VII *	PDE
1969	11	07	13	18	44	26.6	53.3	33	4.6	4.0*		4.6*	VI *	PDE
1969	11	07	15	16	04	26.6	53.7	33	5.0	4.6*		4.9*	VII *	PDE
1969	11	07	16	30	30	26.6	53.3	33	5.0	4.6*		4.9*	VII *	PDE
1969	**11**	**07**	**18**	**33**		**27.8**	**60.1**	**35**	**6.0***	**7.0**		**5.7***	**VIII***	
1969	11	15	23	58	52	26.8	53.5	42	4.9	4.5*		4.8*	VII *	PDE
1969	12	01	13	04	34	26.5	53.5	33	4.7	4.2*		4.7*	VII *	PDE
1970	02	23	11	22	26	27.8	54.5	20	5.5	5.4*		5.3*	VII *	PDE
1970	02	28	19	58	48	27.8	56.3	35	5.5	5.4*		5.3*	VII *	PDE
1970	03	06	19	40	07	28.2	57.5	69	4.7	4.2*		4.7*	VII *	PDE
1970	03	10	22	06	24	28.4	57.5	67	4.7	4.2*		4.7*	VII *	PDE
1970	03	21	13	23	14	27.8	54.6	42	4.6	4.0*		4.6*	VI *	PDE
1970	04	01	23	54	06	28.0	56.7	62	5.1	4.8*		5.0*	VII *	PDE
1970	05	11	03	12	20	28.5	52.3	22	5.1	4.8*		5.0*	VII *	PDE
1970	05	18	06	55	26	27.6	52.9	40	4.7	4.2*		4.7*	VII *	PDE
1970	09	08	12	45	07	28.6	58.9	21	4.8	4.3*		4.8*	VII *	PDE
1970	10	07	02	20	37	27.8	56.5	43	5.0	4.6*		4.9*	VII *	PDE
1970	10	18	06	10	39	27.3	55.0	40	4.8	4.3*		4.8*	VII *	PDE
1970	10	20	10	34	19	27.6	56.7	44	4.9	4.5*		4.8*	VII *	PDE
1970	11	09	17	41	42	29.5	56.9	106	5.5	5.4*		5.3*	VII *	PDE
1970	12	26	19	52	04	27.8	57.9	74	4.8	4.3*		4.8*	VII *	PDE
1971	01	28	06	09	27	28.5	57.4	34	4.6	4.0*		4.6*	VI *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1971	04	06	06	49	53	29.8	51.9	10	5.2	5.1		5.0*	VII *	PDE
1971	04	12	19	03	26	28.3	55.6	44	6.0	5.9		5.6*	VIII*	PDE
1971	04	13	20	43	00	28.2	55.6	44	4.8	4.3*		4.8*	VII *	PDE
1971	05	25	04	32	37	27.7	55.4	23	5.1	4.8*		5.0*	VII *	PDE
1971	05	25	06	52	49	27.3	53.4	11	4.8	4.3*		4.8*	VII *	PDE
1971	06	02	10	05	09	29.4	51.6	35	4.8	4.3*		4.8*	VII *	PDE
1971	08	26	06	55	09	30.0	50.7	45	4.8	4.3*		4.8*	VII *	PDE
1971	09	08	12	53	34	29.2	60.0	12	5.4	5.3*		5.2*	VII *	PDE
1971	10	05	18	31	18	27.2	55.8	39	5.1	4.8*		5.0*	VII *	PDE
1971	11	03	09	42	50	28.3	57.0	33	4.7	4.2*		4.7*	VII *	PDE
1971	11	08	03	06	36	27.1	54.5	36	5.6	5.9		5.3*	VII *	PDE
1971	11	08	03	24	27	26.9	54.5	33	4.9	4.5*		4.8*	VII *	PDE
1971	11	09	00	16	58	27.0	54.5	33	4.8	4.3*		4.8*	VII *	PDE
1971	12	09	01	42	31	27.2	56.4	15	5.3	5.8		5.1*	VII *	PDE
1971	12	09	02	36	12	27.4	56.4	33	4.9	4.5*		4.8*	VII *	PDE
1971	12	20	23	27	39	28.4	57.2	33	4.9	4.5*		4.8*	VII *	PDE
1971	12	29	21	12	37	29.5	52.8	18	4.9	4.5*		4.8*	VII *	PDE
1972	02	28	18	44	54	29.8	50.7	25	4.7	5.1		4.7*	VII *	PDE
1972	03	08	21	49	11	27.6	56.7	45	4.9	4.5*		4.8*	VII *	PDE
1972	04	03	08	06	07	28.5	52.6	45	4.7	4.2*		4.7*	VII *	PDE
1972	04	03	09	07	16	28.1	57.2	52	5.0	4.6*		4.9*	VII *	PDE
1972	**04**	**10**	**02**	**06**		**28.4**	**52.8**		**5.9***	**6.8**		**5.6***	**VII ***	
1972	04	10	02	34	32	28.4	52.9	33	4.9	4.5*		4.8*	VII *	PDE
1972	04	10	04	36	16	28.3	53.0	33	4.6	4.0*		4.6*	VI *	PDE
1972	04	10	08	33	52	28.3	53.1	33	4.6	4.0*		4.6*	VI *	PDE
1972	04	10	14	35	34	28.3	53.1	33	4.6	4.0*		4.6*	VI *	PDE
1972	04	10	20	27	08	28.4	52.9	33	4.7	4.2*		4.7*	VII *	PDE
1972	04	12	18	37	41	28.3	53.1	33	5.1	4.8*		5.0*	VII *	PDE
1972	04	12	23	07	50	28.4	53.0	33	5.0	4.6*		4.9*	VII *	PDE
1972	04	23	02	00	07	28.7	53.2	67	4.6	4.0*		4.6*	VI *	PDE
1972	04	24	14	41	09	28.5	53.0	33	4.6	4.0*		4.6*	VI *	PDE
1972	04	25	13	21	15	28.4	53.2	45	5.0	4.6*		4.9*	VII *	PDE
1972	04	29	16	04	21	28.3	53.0	33	4.9	4.5*		4.8*	VII *	PDE
1972	05	16	10	59	53	28.3	52.6	37	5.0	4.6*		4.9*	VII *	PDE
1972	05	18	02	42	56	27.9	55.8	34	4.6	4.0*		4.6*	VI *	PDE
1972	05	20	06	44	26	28.3	52.8	33	4.9	4.5*		4.8*	VII *	PDE
1972	06	06	17	54	43	26.9	53.4	54	4.9	4.5*		4.8*	VII *	PDE
1972	06	30	17	49	33	27.2	56.8	33	4.6	4.0*		4.6*	VI *	PDE
1972	08	02	21	33	06	28.2	57.0	38	4.7	4.2*		4.7*	VII *	PDE
1972	08	02	23	03	29	28.1	56.9	31	5.0	4.6*		4.9*	VII *	PDE
1972	08	03	22	47	46	28.2	57.0	62	4.8	4.3*		4.8*	VII *	PDE
1972	08	06	01	12	50	25.1	61.2	33	5.5	5.4*		5.3*	VII *	PDE
1972	08	06	01	32	16	25.7	60.9	33	5.0	4.6*		4.9*	VII *	PDE
1972	08	08	19	09	34	25.0	61.1	41	5.5	5.0		5.3*	VII *	PDE
1972	09	09	01	42	29	28.5	52.7	48	5.1	4.8*		5.0*	VII *	PDE
1972	10	09	07	18	24	28.2	56.0	33	5.2	5.0		5.0*	VII *	PDE
1972	11	04	09	32	22	28.5	57.0	33	4.9	4.5*		4.8*	VII *	PDE
1972	11	17	09	09	00	27.3	59.1	65	5.4	5.3*		5.2*	VII *	PDE
1972	11	25	22	43	30	28.4	53.7	41	4.7	4.2*		4.7*	VII *	PDE
1972	12	26	18	35	23	28.4	52.7	33	4.6	4.0*		4.6*	VI *	PDE
1973	02	24	00	02	40	28.6	52.6	27	5.2	5.0*		5.0*	VII *	PDE
1973	03	03	02	46	25	29.5	51.2	34	4.6	4.0*		4.6*	VI *	PDE
1973	03	28	03	36	38	28.6	52.7	37	5.2	4.4		5.0*	VII *	PDE
1973	04	02	01	27	09	27.1	61.6	33	5.0	4.6*		4.9*	VII *	PDE
1973	04	25	08	35	37	26.8	55.4	43	4.6	4.0*		4.6*	VI *	PDE
1973	04	26	14	30	05	27.1	60.8	46	5.2	5.0*		5.0*	VII *	PDE
1973	05	03	07	44	24	28.2	51.9	41	4.6	4.0*		4.6*	VI *	PDE
1973	05	06	03	59	20	27.3	55.5	28	4.9	4.5*		4.8*	VII *	PDE
1973	05	31	19	50	37	28.2	56.2	33	4.7	4.2*		4.7*	VII *	PDE
1973	06	08	17	56	59	26.5	61.1	33	4.6	4.0*		4.6*	VI *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1973	06	08	21	49	57	26.6	61.0	33	4.6	4.0*		4.6*	VI *	PDE
1973	06	09	20	36	12	27.8	52.1	32	4.7	4.2*		4.7*	VII *	PDE
1973	06	25	10	29	03	30.0	50.5	48	5.0	4.6*		4.9*	VII *	PDE
1973	08	24	02	06	02	27.8	52.7	33	5.1	5.3		5.0*	VII *	PDE
1973	08	24	02	12	41	28.0	52.9	33	4.9	4.5*		4.8*	VII *	PDE
1973	08	24	09	34	11	27.9	52.7	33	4.9	4.5*		4.8*	VII *	PDE
1973	08	25	14	58	11	28.1	56.8	56	5.4	5.3*		5.2*	VII *	PDE
1973	12	10	21	06	48	28.0	57.0	14	4.6	4.0*		4.6*	VI *	PDE
1973	12	16	08	25	00	28.5	52.6	33	4.9	4.5*		4.8*	VII *	PDE
1973	12	19	18	26	09	28.1	55.0	33	4.8	4.3*		4.8*	VII *	PDE
1974	03	11	20	21	35	28.5	52.8	44	4.7	4.2*		4.7*	VII *	PDE
1974	08	05	13	19	40	28.0	53.5	11	5.3	5.1*		5.1*	VII *	PDE
1974	11	15	17	37	46	27.6	62.5	75	4.7	4.2*		4.7*	VII *	PDE
1974	12	02	09	05	44	28.0	55.8	36	5.4	5.3*		5.2*	VII *	PDE
1974	12	20	03	28	46	26.5	61.2	7	5.0	4.6*		4.9*	VII *	PDE
1974	12	26	18	36	22	29.5	52.7	33	4.8	4.3*		4.8*	VII *	PDE
1975	01	11	12	08	06	29.0	51.8	27	5.0	4.6*		4.9*	VII *	PDE
1975	01	12	04	12	42	28.9	52.0	33	4.6	4.0*		4.6*	VI *	PDE
1975	02	26	17	19	37	27.9	52.8	53	4.6	4.0*		4.6*	VI *	PDE
1975	**03**	**07**	**07**	**04**		**27.4**	**56.2**	**27**	**5.7***	**6.1**		**5.4***	**VII ***	
1975	03	07	10	42	25	27.6	56.3	33	4.6	4.0*		4.6*	VI *	PDE
1975	03	07	14	26	57	27.5	56.2	28	5.2	5.0*		5.0*	VII *	PDE
1975	03	07	15	36	40	27.6	56.3	27	4.7	4.2*		4.7*	VII *	PDE
1975	03	07	17	42	30	27.3	56.3	33	4.6	4.0*		4.6*	VI *	PDE
1975	03	09	06	39	44	27.4	56.3	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	12	04	13	07	27.4	56.4	39	4.8	4.3*		4.8*	VII *	PDE
1975	05	17	16	19	13	27.5	57.7	33	4.9	4.8		4.8*	VII *	PDE
1975	06	13	10	12	50	27.0	54.9	58	4.9	4.5*		4.8*	VII *	PDE
1975	06	20	09	16	47	26.2	54.3	67	4.7	4.2*		4.7*	VII *	PDE
1975	06	20	14	10	47	27.6	58.7	68	4.8	4.3*		4.8*	VII *	PDE
1975	08	27	16	59	31	27.5	56.2	43	5.1	4.8*		5.0*	VII *	PDE
1975	09	22	23	00	07	27.9	53.9	33	4.7	4.2*		4.7*	VII *	PDE
1975	10	08	08	15	50	28.2	55.7	51	5.3	5.1*		5.1*	VII *	PDE
1975	10	08	09	53	42	28.4	55.7	69	4.8	4.3*		4.8*	VII *	PDE
1975	11	06	10	15	42	27.4	56.1	38	4.9	4.5*		4.8*	VII *	PDE
1975	12	17	13	34	54	27.9	57.1	33	4.8	4.3*		4.8*	VII *	PDE
1975	12	19	08	02	08	28.6	57.0	61	4.7	4.2*		4.7*	VII *	PDE
1975	12	19	12	46	31	28.2	57.2	33	4.6	4.0*		4.6*	VI *	PDE
1975	12	24	11	48	57	27.0	55.5	33	5.5	5.4		5.3*	VII *	PDE
1975	12	24	18	40	33	27.0	55.6	33	4.7	4.7		4.7*	VII *	PDE
1975	12	24	19	55	11	27.1	55.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	12	24	21	04	13	27.0	55.5	33	4.7	4.2*		4.7*	VII *	PDE
1975	12	25	21	59	59	26.5	55.8	33	5.2	5.0*		5.0*	VII *	PDE
1975	12	30	01	09	35	26.8	55.5	29	4.8	4.3*		4.8*	VII •	PDE
1976	01	07	07	10	17	29.9	59.3	50	4.6	4.0*		4.6*	VI *	PDE
1976	03	10	04	39	18	28.4	57.4	67	4.7	4.2*		4.7*	VII *	PDE
1976	03	16	07	28	58	27.3	55.1	33	5.4	5.2		5.2*	VII *	PDE
1976	03	20	09	24	01	27.3	55.0	33	4.7	4.2*		4.7*	VII •	PDE
1976	03	31	02	34	22	28.1	56.6	66	4.9	4.5*		4.8*	VII *	PDE
1976	04	22	17	03	08	28.7	52.1	24	6.0	5.5		5.4 ATH	VII *	PDE
1976	04	24	10	19	44	27.9	56.7	22	4.8	4.3*		4.8*	VII *	PDE
1976	04	26	04	57	26	28.7	52.1	29	5.2	5.0*		5.0*	VII *	PDE
1976	05	02	16	57	05	28.2	53.3	46	4.6	4.0*		4.6*	VI *	PDE
1976	06	02	18	04	41	28.1	53.3	33	5.0	4.6*		4.9*	VII *	PDE
1976	06	13	21	33	22	28.1	55.6	50	4.7	4.2*		4.7*	VII *	PDE
1976	06	27	09	26	32	29.5	52.1	8	4.7	4.2*		4.7*	VII *	PDE
1976	06	28	17	00	55	29.5	52.0	6	4.6	4.0*		4.6*	VI *	PDE
1976	07	17	08	36	59	29.7	51.5	29	4.7	4.2*		4.7*	VII *	PDE
1976	09	14	23	41	26	28.0	53.5	23	5.0	5.2		4.9*	VII *	PDE
1976	10	24	16	20	59	27.6	56.7	48	5.1	4.8*		5.0*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1976	10	26	01	00	23	27.2	58.1	65	4.6	4.0*		4.6*	VI *	PDE
1976	11	06	23	18	53	28.2	57.1	33	4.8	4.3*		4.8*	VII *	PDE
1976	11	13	10	12	33	28.2	57.4	33	5.0	4.6*		4.9*	VII *	PDE
1976	12	01	11	59	35	27.0	54.9	46	4.7	4.2*		4.7*	VII *	PDE
1976	12	09	20	02	26	27.6	56.2	55	4.6	4.0*		4.6*	VI *	PDE
1977	01	05	05	44	40	27.5	56.2	29	5.5	5.2		5.3*	VII *	PDE
1977	02	14	05	30	24	27.3	52.9	33	4.6	4.0*		4.6*	VI *	PDE
1977	02	19	17	37	27	27.3	53.1	16	4.6	4.0*		4.6*	VI *	PDE
1977	03	20	23	56	53	26.9	56.4	33	4.6	4.0*		4.6*	VI *	PDE
1977	**03**	**21**	**21**	**18**		**27.6**	**56.3**	**29**	**6.0***	**7.0**		**5.7***	**VIII***	
1977	03	21	21	33	18	27.5	56.4	33	5.1	4.8*		5.0*	VII *	PDE
1977	03	21	21	41	24	27.2	56.8	33	4.7	4.2*		4.7*	VII *	PDE
1977	03	21	21	51	39	27.6	56.4	33	4.9	4.5*		4.8*	VII *	PDE
1977	03	21	22	42	07	27.6	56.5	36	5.8	5.9*		5.5*	VII *	PDE
1977	03	21	23	56	58	27.4	56.5	40	4.9	4.5*		4.8*	VII *	PDE
1977	03	22	01	28	19	27.4	56.3	33	4.7	4.2*		4.7*	VII *	PDE
1977	03	22	01	37	09	27.5	56.2	56	4.7	4.2*		4.7*	VII *	PDE
1977	03	22	02	25	59	27.5	56.3	43	5.2	5.0*		5.0*	VII *	PDE
1977	03	22	02	42	10	27.7	56.5	60	4.9	4.5*		4.8*	VII *	PDE
1977	03	22	09	14	40	27.6	56.6	33	5.0	5.2		4.9*	VII *	PDE
1977	03	22	11	57	31	27.6	56.5	39	5.7	5.9		5.4*	VII *	PDE
1977	03	22	12	32	57	27.6	56.6	62	4.8	4.3*		4.8*	VII *	PDE
1977	03	22	21	31	03	27.7	56.4	33	4.8	4.3*		4.8*	VII *	PDE
1977	03	23	00	17	51	27.6	56.4	33	4.9	4.5*		4.8*	VII *	PDE
1977	03	23	02	31	39	27.6	56.5	55	4.9	4.5*		4.8*	VII •	PDE
1977	03	23	07	46	59	27.7	56.4	54	5.0	5.5		4.9*	VII •	PDE
1977	03	23	10	11	08	27.8	56.2	33	4.6	4.0*		4.6*	VI *	PDE
1977	03	23	20	40	58	27.5	56.5	42	4.9	4.5*		4.8*	VII *	PDE
1977	03	23	23	51	16	27.6	56.6	35	5.8	5.4		5.5*	VII *	PDE
1977	03	24	00	04	51	27.8	56.6	33	4.8	4.3*		4.8*	VII *	PDE
1977	03	24	00	13	52	27.6	56.5	45	5.1	4.8*		5.0*	VII *	PDE
1977	03	24	04	42	24	27.6	56.6	32	5.3	5.1*		5.1*	VII *	PDE
1977	03	24	13	57	52	26.9	56.6	33	4.6	4.0*		4.6*	VI *	PDE
1977	03	24	14	10	46	27.7	56.5	61	4.7	4.2*		4.7*	VII *	PDE
1977	03	25	22	55	24	27.8	56.6	56	4.9	4.5*		4.8*	VII *	PDE
1977	03	26	00	32	38	27.6	56.6	47	4.9	4.5*		4.8*	VII *	PDE
1977	03	26	14	27	55	27.4	56.2	34	4.9	4.5*		4.8*	VII *	PDE
1977	03	27	07	19	51	28.1	56.2	70	4.7	4.2*		4.7*	VII *	PDE
1977	03	28	04	09	49	27.7	56.5	55	4.9	4.5*		4.8*	VII *	PDE
1977	03	28	04	54	08	27.6	56.6	49	4.9	4.5*		4.8*	VII *	PDE
1977	03	29	22	29	17	27.6	56.4	35	5.2	4.9		5.0*	VII *	PDE
1977	03	29	23	25	12	27.5	56.5	54	4.6	4.0*		4.6*	VI *	PDE
1977	03	31	10	06	04	27.7	56.5	63	4.6	4.0*		4.6*	VI *	PDE
1977	03	31	13	36	30	27.7	56.6	62	4.7	4.2*		4.7*	VII *	PDE
1977	03	31	19	11	21	27.6	56.3	52	4.7	4.2*		4.7*	VII *	PDE
1977	04	01	06	59	04	27.3	56.3	12	4.8	4.3*		4.8*	VII *	PDE
1977	04	01	13	36	25	27.5	56.3	29	6.2	6.0		5.8*	VIII*	PDE
1977	04	01	16	00	25	27.6	56.3	33	4.9	4.9		4.8*	VII *	PDE
1977	04	01	20	43	24	27.3	56.6	33	5.1	4.8*		5.0*	VII *	PDE
1977	04	02	06	53	35	27.7	56.2	33	4.8	4.3*		4.8*	VII *	PDE
1977	04	07	03	34	38	27.9	57.1	33	4.9	4.5*		4.8*	VII *	PDE
1977	04	08	16	49	43	27.5	56.3	22	4.7	4.2*		4.7*	VII *	PDE
1977	04	09	17	34	19	28.0	52.0	22	4.9	4.5*		4.8*	VII *	PDE
1977	04	11	03	10	06	27.5	56.2	33	4.8	4.3*		4.8*	VII *	PDE
1977	04	17	03	47	26	27.2	56.6	33	4.6	4.0*		4.6*	VI *	PDE
1977	04	17	13	04	45	27.2	56.4	33	4.8	4.3*		4.8*	VII *	PDE
1977	04	20	04	22	25	26.9	55.5	33	5.1	4.4		5.0*	VII *	PDE
1977	04	30	14	35	37	27.6	56.5	38	5.0	4.8		4.9*	VII *	PDE
1977	05	19	00	08	16	29.8	51.2	40	4.9	4.5*		4.8*	VII *	PDE
1977	05	19	22	58	31	27.1	55.3	30	5.2	5.0*		5.0*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1977	05	19	23	04	54	27.1	55.3	35	5.3	5.1*		5.1*	VII *	PDE
1977	05	20	12	25	19	27.1	55.1	33	4.6	4.0*		4.6*	VI *	PDE
1977	05	20	17	37	39	27.3	56.6	33	4.8	4.3*		4.8*	VII *	PDE
1977	05	24	12	43	29	27.1	55.5	45	4.8	4.3*		4.8*	VII *	PDE
1977	05	24	12	59	09	27.1	55.5	27	4.7	4.2*		4.7*	VII *	PDE
1977	05	25	21	06	38	29.3	53.4	22	4.8	4.3*		4.8*	VII *	PDE
1977	05	26	16	43	38	29.8	51.1	29	4.9	4.5*		4.8*	VII *	PDE
1977	05	26	22	39	29	27.7	56.6	39	4.8	4.3*		4.8*	VII *	PDE
1977	06	02	03	57	03	29.4	53.2	37	4.7	4.2*		4.7*	VII *	PDE
1977	06	06	18	39	47	29.7	51.1	30	4.9	4.5*		4.8*	VII *	PDE
1977	06	15	03	22	53	26.8	58.8	33	4.8	4.3*		4.8*	VII *	PDE
1977	06	26	02	25	29	27.5	56.1	39	4.8	4.3*		4.8*	VII *	PDE
1977	06	28	03	44	55	27.6	56.1	46	4.9	4.5*		4.8*	VII *	PDE
1977	07	03	06	38	41	25.2	60.9	33	4.6	4.0*		4.6*	VI *	PDE
1977	07	26	01	18		27.5	56.4	39	4.8	4.3*		4.8*	VII *	PDE
1977	08	28	23	50	32	28.0	54.9	45	4.7	4.2*		4.7*	VII *	PDE
1977	09	13	00	16	07	27.7	56.5	57	4.7	4.2*		4.7*	VII *	PDE
1977	09	13	11	48	47	27.7	59.9	33	4.7	4.4		4.7*	VII *	PDE
1977	09	15	16	04	47	27.4	56.5	33	5.0*	4.6*		4.8 LDG	VII *	PDE
1977	09	19	00	23	06	29.6	51.4	35	4.7	4.2*		4.7*	VII *	PDE
1977	10	19	06	35	11	27.8	54.9	33	5.6	5.2		5.3*	VII *	PDE
1977	10	27	00	22	22	29.7	50.7	34	4.8	4.3*		4.8*	VII *	PDE
1977	12	01	21	11	18	27.7	56.6	33	5.1	4.8*		5.0*	VII *	PDE
1977	12	01	23	28	17	27.6	56.6	33	5.1	4.8*		5.0*	VII *	PDE
1977	12	10	05	46	23	27.7	56.6	47	5.1	5.0		5.0*	VII *	PDE
1977	12	11	08	11	23	27.4	56.6	33	4.7	4.2*		4.7*	VII *	PDE
1978	01	05	19	30	21	27.6	53.8	56	4.7	4.2*		4.7*	VII *	PDE
1978	02	11	21	40	13	28.2	55.4	50	5.2	4.6		5.0*	VII *	PDE
1978	02	22	20	17	58	28.0	56.9	23	5.1	4.8*		5.0*	VII *	PDE
1978	02	23	23	24	48	28.1	56.9	24	5.2	4.3		5.0*	VII *	PDE
1978	03	01	09	53	46	27.4	56.4	33	4.6	4.0*		4.6*	VI *	PDE
1978	03	23	11	14	30	27.3	53.2	33	4.6	4.0*		4.6*	VI *	PDE
1978	06	18	19	26	27	27.4	56.6	33	4.7	4.2*		4.7*	VII *	PDE
1978	08	29	14	11	04	29.6	51.6	34	4.9	4.5*		4.8*	VII *	PDE
1978	09	06	13	00	53	28.2	57.2	33	4.6	4.0*		4.6*	VI *	PDE
1979	01	10	01	26	09	26.6	60.9	33	5.6	5.8	6.0 PAS	5.3*	VII *	PDE
1979	01	10	15	05	48	26.5	61.0	33	5.6	5.9	6.1 PAS	5.3*	VII *	PDE
1979	01	11	03	33	16	26.4	61.0	33	4.8	4.3		4.8*	VII *	PDE
1979	01	12	08	15	21	26.3	61.1	33	4.8	4.3		4.8*	VII *	PDE
1979	01	15	12	27	03	27.7	56.5	33	4.6	4.0*		4.6*	VI *	PDE
1979	01	18	01	21	47	26.4	60.9	33	4.8	4.8		4.8*	VII *	PDE
1979	01	19	10	05	51	26.3	61.0	20	4.7	4.6		4.7*	VII *	PDE
1979	01	31	13	59	14	26.4	61.3	33	4.6	4.0*		4.6*	VI *	PDE
1979	02	11	22	25	21	27.9	54.8	58	4.7	4.2*		4.7*	VII *	PDE
1979	03	04	05	43	43	28.3	56.3	34	4.9	5.0		4.8*	VII *	PDE
1979	03	17	12	36	33	26.5	61.0	33	4.9	4.8		4.8*	VII *	PDE
1979	04	05	04	05	16	26.6	61.0	33	4.8	4.9		4.8*	VII *	PDE
1979	05	21	08	06	48	26.4	61.0	33	4.5	4.3		4.5*	VI *	PDE
1979	07	21	15	08	34	28.0	57.1	33	4.6	4.0*		4.6*	VI *	PDE
1979	08	14	23	24	23	28.4	57.0	69	4.8	4.3*		4.8*	VII *	PDE
1979	12	03	09	47	26	26.4	61.4	33	4.6	4.0*		4.6*	VI *	PDE
1979	12	24	19	54	47	29.1	52.1	10	4.7	4.2*		4.7*	VII •	PDE
1980	01	01	02	45	54	27.3	60.3	33	5.3	5.1*		5.1*	VII *	PDE
1980	02	01	18	04	16	26.5	61.1	33	4.8	5.0		4.8*	VII *	PDE
1980	02	06	12	56	04	26.8	53.8	33	5.0	4.6*		4.9*	VII *	PDE
1980	02	07	21	18	39	28.1	53.3	33	4.8	4.2		4.8*	VII *	PDE
1980	02	26	15	53	06	27.5	53.5	33	4.7	4.2*		4.7*	VII *	PDE
1980	02	26	17	37	14	27.4	53.4	33	4.6	4.0*		4.6*	VI *	PDE
1980	03	30	04	42	13	29.2	60.1	33	4.9	4.5*		4.8*	VII *	PDE
1980	05	28	10	59	23	28.3	57.6	41	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1980	06	11	23	41	47	28.4	57.9	33	4.7	4.2*		4.7*	VII *	PDE
1980	07	16	08	53	48	29.5	51.9	33	4.8	4.3*		4.8*	VII *	PDE
1980	07	20	10	03	29	27.4	56.0	33	4.7	4.2*		4.7*	VII *	PDE
1980	08	11	17	17	40	26.4	60.9	33	4.6	4.0*		4.6*	VI *	PDE
1980	08	15	20	48	10	26.4	61.0	33	4.8	4.3*		4.8*	VII *	PDE
1980	09	10	14	38	13	28.0	57.7	33	4.6	4.0*		4.6*	VI *	PDE
1980	10	15	13	27	19	29.4	51.7	34	4.9	4.3		4.8*	VII *	PDE
1980	11	17	18	26	31	27.4	56.1	33	5.1	4.7		5.0*	VII *	PDE
1980	11	21	12	43	25	28.2	52.2	33	4.6	4.0*		4.6*	VI *	PDE
1980	11	28	21	15	30	27.6	56.5	33	5.5	5.2		5.3*	VII *	PDE
1981	01	06	07	23	44	28.2	56.5	69	5.1	4.8*		5.0*	VII *	PDE
1981	01	28	04	27	11	27.6	53.5	33	4.5	4.0		4.5*	VI *	PDE
1981	03	21	06	18	31	28.1	53.1	33	5.1	4.8		5.0*	VII *	PDE
1981	04	01	10	16	59	29.8	51.5	33	5.4	5.3*		5.2*	VII *	PDE
1981	04	16	10	27	16	27.7	56.3	27	5.3	5.1*		5.1*	VII •	PDE
1981	05	18	19	36	12	27.0	55.3	33	4.8	4.3*		4.8*	VII *	PDE
1981	05	20	23	38	23	28.2	51.8	33	4.6	4.0*		4.6*	VI *	PDE
1981	06	11	07	24	25	29.9	57.7	33	6.1	6.7	6.9 BRK	5.7*	VIII*	PDE
1981	06	11	14	32	41	29.8	58.0	33	4.7	4.2*		4.7*	VII *	PDE
1981	06	12	01	11	46	26.4	60.9	33	4.6	4.0*		4.6*	VI *	PDE
1981	06	12	06	43	59	29.8	57.8	33	4.6	4.0*		4.6*	VI *	PDE
1981	06	13	07	52	33	30.0	57.8	33	4.7	4.2*		4.7*	VII *	PDE
1981	06	21	13	08	45	29.8	57.7	21	4.9	4.0		4.8*	VII *	PDE
1981	06	30	03	18	02	27.1	55.2	33	4.7	4.2*		4.7*	VII *	PDE
1981	07	03	03	52	01	27.1	55.8	33	5.3	5.1*		5.1*	VII *	PDE
1981	07	28	22	35	13	29.9	57.8	33	4.6	4.0*		4.6*	VI *	PDE
1981	08	08	04	17	45	29.9	57.6	33	4.7	4.2*		4.7*	VII *	PDE
1981	09	03	17	05	07	27.6	55.3	33	4.9	4.5		4.8*	VII *	PDE
1981	10	14	09	12	39	29.9	57.7	33	5.1	4.6		5.0*	VII *	PDE
1981	11	22	17	22	52	27.6	55.0	33	4.6	4.0*		4.6*	VI *	PDE
1982	01	03	00	46	27	28.6	60.3	33	4.7	4.2*		4.7*	VII *	PDE
1982	02	25	20	13	33	29.9	57.8	33	4.8	4.0		4.8*	VII *	PDE
1982	02	25	23	30	24	29.9	57.8	33	4.8	4.3*		4.8*	VII *	PDE
1982	02	28	13	42	03	28.6	57.2	33	4.5	4.2		4.5*	VI *	PDE
1982	03	20	04	09	26	27.4	52.7	45	4.9	4.5*		4.8*	VII *	PDE
1982	03	23	09	58	39	27.6	57.3	33	4.7	4.2*		4.7*	VII *	PDE
1982	07	11	13	19	51	27.8	56.3	46	5.3	4.4		5.1*	VII *	PDE
1982	10	15	02	53	50	28.1	57.3	33	5.1	4.8*		5.0*	VII *	PDE
1982	11	10	11	28	28	26.5	54.9	33	4.7	4.2*		4.7*	VII *	PDE
1982	12	12	02	56	28	27.4	56.0	33	4.6	4.0*		4.6*	VI *	PDE
1983	01	17	20	57	13	27.7	56.7	49	5.0	4.6*		4.9*	VII *	PDE
1983	01	31	18	56	50	28.9	57.3	101	5.1	4.8*		5.0*	VII *	PDE
1983	02	07	15	06	28	26.8	57.6	33	5.5	5.7		5.3*	VII *	PDE
1983	02	18	07	40	24	27.9	53.9	35	5.2	4.3		5.0*	VII *	PDE
1983	02	18	14	32	14	27.9	53.8	57	4.7	4.2*		4.7*	VII *	PDE
1983	**04**	**18**	**11**	**00**		**27.8**	**62.1**	**64**	**6.1***	**7.1**		**5.7***	**VIII***	
1983	05	15	11	16	11	28.1	56.3	33	4.7	4.2*		4.7*	VII *	PDE
1983	07	11	20	34	11	29.1	51.9	40	4.6	4.0*		4.6*	VI *	PDE
1983	07	12	11	34	18	27.6	56.4	25	5.9	5.8		5.6*	VII *	PDE
1983	07	12	11	41	27	27.6	56.5	33	4.9	4.5*		4.8*	VII •	PDE
1983	07	12	11	54		27.7	56.4	33	4.7	4.2*		4.7*	VII *	PDE
1983	07	15	01	57	30	28.1	57.0	33	4.9	4.0		4.8*	VII *	PDE
1983	07	15	02	01	15	27.7	57.9	33	5.0	4.6*		4.9*	VII *	PDE
1983	07	16	17	25	51	27.8	56.4	33	4.6	4.0*		4.6*	VI *	PDE
1983	10	09	15	25	37	28.9	61.3	33	4.6	4.0*		4.6*	VI *	PDE
1983	10	29	02	37	02	28.5	57.1	33	4.9	4.5*		4.8*	VII *	PDE
1983	12	02	10	45	08	27.9	56.7	33	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 354 PAKISTAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1929	09	03	12	07	39	26.5	62.2	110	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1932	02	04	21	18	09	26.5	62.2		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	04	18	11	23	21	25.0	64.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1947	**08**	**05**	**14**	**24**		**25.5**	**63.0**	**60**	**6.2***	**7.3**		**5.8***	**VIII***	
1963	08	12	18	29	39	25.3	62.7	33	5.2	5.0*		5.0*	VII *	PDE
1968	08	03	14	01	47	25.8	62.8	41	4.7	4.2*		4.7*	VII *	PDE
1973	01	13	14	14	41	25.6	63.9	50	5.0	4.6*		4.9*	VII *	PDE
1974	12	24	09	42	09	25.5	64.8	33	4.7	4.2*		4.7*	VII *	PDE
1975	07	29	13	25	22	25.2	63.1	33	5.4	4.9		5.2*	VII *	PDE
1976	02	03	14	54	17	25.4	63.4	33	4.6	4.0*		4.6*	VI *	PDE
1978	02	10	20	50	47	25.3	62.4	33	5.1	5.5		5.0*	VII *	PDE
1978	06	28	16	00	52	25.2	62.3	33	4.7	4.2*		4.7*	VII *	PDE
1979	01	31	15	50	34	29.9	63.9	183	4.8	4.3*		4.8*	VII *	PDE
1979	10	25	17	37	04	25.6	62.2	33	4.8	4.3*		4.8*	VII *	PDE
1980	04	28	07	04	42	27.5	64.5	34	5.4	4.7		5.2*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 356 NEAR COAST OF PAKISTAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1933	07	07	07	30	51	24.0	65.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	04	19	23	27		24.0	65.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1943	02	06	02	35	58	24.5	63.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1966	08	22	21	28	29	24.9	61.8	33	4.7	4.2*		4.7*	VII *	PDE
1966	11	12	08	28	22	23.3	61.6	33	4.7	4.2*		4.7*	VII *	PDE
1968	11	09	13	43	38	23.8	64.7	33	5.2	5.3		5.0*	VII *	PDE
1969	02	13	11	11	26	25.0	62.9	33	5.2	5.0*		5.0*	VII *	PDE
1969	07	08	16	27	22	23.6	64.4	30	5.2	5.0*		5.0*	VII *	PDE
1969	12	03	02	31	48	24.7	65.4	33	4.9	4.5*		4.8*	VII *	PDE
1971	11	05	14	55	49	24.7	63.3	33	5.1	4.8*		5.0*	VII *	PDE
1973	09	02	07	23	17	24.9	63.1	25	5.3	5.1*		5.1*	VII *	PDE
1973	10	27	09	50	38	24.6	62.1	33	4.7	4.2*		4.7*	VII *	PDE
1976	09	22	19	39	47	23.7	64.1	33	4.8	4.3*		4.8*	VII *	PDE
1977	04	16	04	06	30	23.5	64.7	33	5.0	4.6*		4.9*	VII *	PDE
1977	05	29	02	22	04	23.4	64.6	33	4.9	4.5		4.8*	VII *	PDE
1977	05	29	03	20	35	23.4	64.6	33	4.6	4.0*		4.6*	VI *	PDE
1977	05	29	08	51	54	23.3	64.6	33	5.0	4.2		4.9*	VII *	PDE
1978	05	24	01	56	10	23.8	65.4	30	5.1	4.8*		5.0*	VII *	PDE
1979	08	12	01	25	19	23.7	65.0	33	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 366 TURKEY

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1900	06					38.5	43.3		5.2*	5.0*	5.2	5.0*	VII *	ANK
1900	09	20				37.8	29.1		5.5*	5.7*		5.3*	IX	KRK
1900	10					39.6	27.9		5.2*	5.0*	5.2	5.0*	VII *	ANK
1901						39.9	41.3		5.4*	5.6*	5.8	5.2*	VII *	ANK
1901	02	23				37.9	27.9	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1901	03					38.2	29.4		5.2*	5.0*	5.2	5.0*	VII *	ANK
1901	03					40.7	36.6	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1901	04					37.8	29.0		5.2*	5.0*	5.2	5.0*	VII *	ANK
1901	05					37.8	27.8	15	5.1*	4.8*		5.0	VI	KRK
1901	05	12	12	32		39.8	30.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1901	06	21				37.8	28.1		4.9*	4.4*		4.6	VI *	KRK
1902						39.0	43.3		5.2*	5.0*	5.2	5.0*	VII *	ANK
1902	06	21				37.8	28.1	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1902	07					41.0	39.7		5.2*	5.0*	5.2	5.0*	VII *	ANK
1903						38.0	28.5		5.2*	5.0*	5.2	5.0*	VII *	ANK
1903	04					38.6	27.4		5.2*	5.0*	5.2	5.0*	VII *	ANK
1903	04	04				39.0	28.0	20	5.3*	5.4*		5.5	VI	KRK
1903	04	19				39.1	42.4		5.9*	6.8*	7.0	5.6*	VII *	ANK
1903	04	28	23	40		39.0	43.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1903	**04**	**28**	**23**	**46**		**39.1**	**42.5**		**5.7***	**6.3**		**5.4***	**VII ●**	
1903	05	03				38.7	41.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1903	06					38.6	27.4		5.2*	5.0*	5.2	5.0*	VII *	ANK
1904	01	01	11	38		37.8	29.1	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1904	02	16	03	45		40.3	38.4	33	5.1*	4.9*	5.1	5.0*	IX	KRK
1904	05	19	10	02		38.4	27.2	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1904	08	11	05	56		37.7	27.0	10	5.6*	6.0*	6.2	5.3*	XII	KRK
1904	08	11	07			38.0	27.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1904	08	18	20	05		38.0	27.0	33	5.5*	5.8*	6.0	5.3*	VII	KRK
1904	08	18	20	07		38.0	27.0	30	5.6*	5.9*		6.0	VII	KRK
1904	08	18	20	50		38.0	27.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1904	10	10	17	07		38.4	27.2		5.4*	5.6*	5.8	5.2*	VII *	ANK
1904	10	10	17	40		38.4	27.2	20	5.5*	5.7*		5.8	VII	KRK
1904	10	10	17	43		38.4	27.2	33	5.4*	5.6*	5.8	5.2*	VII	KRK
1904	10	18				38.1	27.0		5.4*	5.6*	5.8	5.2*	VII *	ANK
1904	10	22				38.4	27.2	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1904	12					38.7	27.7	20	5.0*	4.6*		4.8	VI	KRK
1905						38.7	43.3		5.2*	5.0*	5.2	5.0*	VII *	ANK
1905	01	11	17	32		39.6	27.9	15	5.1*	4.8*		5.0	VI	KRK
1905	04	15				40.2	29.0	33	5.7*	6.3*	6.5	5.4*	XII	KRK
1905	04	15	05	36		40.2	29.0	12	5.4*	5.5*		5.6	IX	KRK
1905	04	30	15			39.8	30.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1905	04	30	16	13		39.8	30.5	22	5.3*	5.2*		5.4	VI	KRK
1905	05	01	19			39.9	30.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1905	10	22	03	42		41.0	31.0	27	5.2*	5.0*		5.2	VI	KRK
1905	12	04	07			38.3	36.5	33	5.5*	5.7*		5.3*	IX	KRK
1905	12	04	07	04		39.0	39.0	33	5.9*	6.6*	6.8	5.5*	IX	KRK
1905	12	04	07	50		39.0	39.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1905	12	04	09	40		39.0	39.0	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1905	12	04	12	20		39.0	39.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1905	**12**	**04**	**12**	**20**		**38.0**	**37.0**	**60**	**6.0***	**7.0**		**5.7***	**VIII***	
1905	12	04	12	20	25	38.0	37.0	60	5.9*	6.8*	7.0	5.6*	VII *	BDA
1906						38.8	43.4		5.2*	5.0*	5.2	5.0*	VII *	ANK
1906	09	28	05	50		40.5	42.7	33	5.6*	6.0*	6.2	5.3*	IX	KRK
1906	11	24				37.5	28.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1906	11	24	16	47		37.5	28.0	7	4.8*	4.0*		4.2	VI	KRK
1906	12	28				40.5	42.0	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1907						37.8	29.1		5.2*	5.0*	5.2	5.0*	VII *	ANK
1907	01	22	02	41		41.0	29.0	12	4.9*	4.3*		4.5	VI	KRK
1907	01	27				39.1	42.5		5.7*	6.2*	6.4	5.4*	VII *	ANK
1907	01	29				39.1	42.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1907	03	29	10			38.4	42.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1907	03	31	14	14		39.1	42.5	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1907	04	06				39.3	40.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1907	06	03	06	46		38.7	41.5	33	5.1*	4.8*	5.0	5.0*	VI	KRK
1907	08	21				40.7	30.1	15	5.3*	5.4*		5.5	VII	KRK
1907	12					37.6	34.5		5.6*	6.0*	6.2	5.3*	VII *	ANK
1908						37.1	36.2		5.2*	5.0*	5.2	5.0*	VII *	ANK
1908	02	02				37.5	34.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1908	02	17	03			37.4	35.8	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1908	02	21				39.9	41.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1908	03	08				37.8	27.8	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1908	03	08	02			37.8	27.8	15	5.1*	4.8*		5.0	VII	KRK
1908	04	12				38.2	27.7	9	5.3*	5.1*		5.3	VII	KRK
1908	06	21	03	55		40.6	35.9	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1908	06	23	14	16		38.4	27.2	27	5.2*	5.0*		5.2	VI	KRK
1908	06	23	14	20	20	38.4	27.2	27	5.2*	5.0*	5.2	5.0*	VII *	ANK
1908	06	23	14	42		38.4	27.2	33	5.1*	4.9*	5.1	5.0*	VI	KRK
1908	06	23	14	45		38.4	27.2	25	5.2*	4.9*		5.1	VI	KRK
1908	06	23	16	04		38.4	27.2	33	5.1*	4.8*	5.0	5.0*	V	KRK
1908	06	23	16	07		38.4	27.2	38	5.1*	4.8*		5.0	VI	KRK
1908	10	30	11	30		37.6	36.8	33	5.3*	5.2*	5.4	5.1*	VI	KRK
1909						39.3	40.3		5.2*	5.0*	5.2	5.0*	VII *	ANK
1909	02	09	11	24	06	40.0	38.0	60	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1909	02	09	14	38		40.0	38.0	33	5.4*	5.6*	5.8	5.2*	VII	KRK
1909	02	10	19	49		40.0	38.0	33	5.4*	5.5*	5.7	5.2*	VI	KRK
1909	02	22	14	14		39.0	37.0	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1909	03	05	12	16		39.0	40.0	33	5.2*	5.1*	5.3	5.1*	VII	KRK
1909	10	29	16	04		38.0	27.0	20	5.3*	5.1*		5.3	VII *	KRK
1909	10	29	16	08	20	38.0	27.0	20	5.2*	5.1*	5.3	5.1*	VII *	ANK
1910						37.6	29.4		5.2*	5.0*	5.2	5.0*	VII *	ANK
1910	03	20				36.8	34.6	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1910	06	25	19	26		41.0	34.0	33	5.6*	6.0*	6.2	5.3*	VII	KRK
1910	08	07	20	45		38.0	28.0	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1910	08	07	21	45		37.8	28.7	30	5.3*	5.1*		5.3	VI	KRK
1911						40.5	37.8		5.2*	5.0*	5.2	5.0*	VII *	ANK
1911	04	30	20	42	30	36.0	30.0	180	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1911	04	30	20	45		36.0	30.0	140	5.5*	5.8*	6.0	5.3*	VII *	ANK
1912						38.2	30.0		5.2*	5.0*	5.2	5.0*	VII *	ANK
1912	07					40.2	29.1	15	5.1*	4.8*		5.0	VI	KRK
1912	**08**	**09**	**01**	**29**		**40.5**	**27.0**	**60**	**6.2***	**7.5**		**5.8***	**VIII***	
1912	08	10	09	23		40.6	27.1	33	5.6*	6.1*	6.3	5.4*	VII *	KRK
1912	08	10	18	30		40.6	27.1	15	5.3*	5.1*		5.3	VII *	KRK
1912	08	11	07	20		40.6	27.1	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1912	08	11	08	20		40.6	27.1	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1912	09	13	23	31		40.1	26.8	33	5.9*	6.7*	6.9	5.6*	VII *	KRK
1912	10	21	09	31		40.5	27.0	15	4.9*	4.3*		4.5	VI *	KRK
1912	10	21	23	40		40.5	27.0	15	5.0*	4.6*		4.8	VII *	KRK
1913						40.6	36.9		5.2*	5.0*	5.2	5.0*	VII *	ANK
1913	01	27	19	38	32	39.3	43.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1914	02	08	08			37.8	27.0	7	4.8*	4.1*		4.3	VI	KRK
1914	03	22	11	57		40.0	26.0	15	4.9*	4.3*		4.5	VI *	KRK
1914	05	28	11	27	18	39.7	36.0	33	5.3*	5.4*	5.6	5.2*	VI	KRK
1914	10	03	22	06	59	36.2	30.8	70	6.0*	6.9*	7.1	5.6*	VII *	ANK
1914	**10**	**03**	**22**	**07**		**37.7**	**30.4**	**60**	**6.1***	**7.1**		**5.7***	**VIII***	
1914	10	03	22	07	06	38.0	30.0	33	5.9*	6.7*	6.9	5.6*	IX	KRK
1914	10	03	23	23		38.0	30.0	15	5.0*	4.5*		4.7	VII *	KRK
1914	10	04	00	22		38.0	30.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1914	10	04	02	07		38.0	30.0	15	5.0*	4.5*		4.7	VII *	KRK
1914	10	04	15	50		38.0	30.0	15	5.1*	4.8*		5.0	VII *	KRK
1914	10	04	18	10		38.0	30.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1914	10	04	18	48		38.0	30.0	15	5.2*	4.9*		5.1	VII *	KRK
1914	10	04	20	28		38.0	30.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1914	10	05	12	09		38.0	30.0	15	4.9*	4.4*		4.6	VI *	KRK
1914	10	06	12	30		38.0	30.0	15	4.9*	4.4*		4.6	VI *	KRK
1914	10	08	16	13		38.0	30.0	15	5.0*	4.6*		4.8	VII *	KRK
1914	10	10	13	13		38.0	30.0	15	4.9*	4.4*		4.6	VI *	KRK
1914	10	11	09	45		38.0	30.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1914	10	13	20	38		38.0	30.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1914	10	17	00	13		38.0	30.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1915	02	14	08	20	06	38.8	42.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1915	02	28	12	47	24	37.7	43.1	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1915	05	19	04	48	24	38.5	40.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1915	12	25	06	06		37.0	35.5	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1916	**01**	**24**	**06**	**55**		**41.0**	**37.0**	**60**	**6.2***	**7.3**		**5.8***	**VIII***	
1916	04	26	15	56		39.2	27.0	10	4.8*	4.1*		4.3	VII	KRK
1917	03	10	17	39		41.9	36.9	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1917	04	10	19	40		40.6	27.1	15	5.3*	5.1*		5.3	VII *	KRK
1917	08	08	03	41		39.0	27.0	15	4.9*	4.3*		4.5	VI *	KRK
1917	08	20	23	02		40.5	26.0	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1917	08	20	23	02		39.0	26.0	28	5.5*	5.7*		5.8	VIII*	KRK
1917	12	27	07	42	20	40.5	26.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1918	01	16	07	13	15	37.4	30.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1918	01	16	07	13	28	38.3	29.5	10	5.4*	5.5*	5.7	5.2*	VII *	ANK
1918	01	16	16	32	06	38.8	32.9	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1918	06	13	18	13	55	39.0	27.0		5.1*	4.7*	4.9	4.9*	VII *	ANK
1918	07	04	11	25	35	38.1	30.1	30	5.3*	5.2*	5.4	5.1*	VII *	ANK
1918	08	09	00	39	10	40.9	33.4	10	5.4*	5.6*	5.8	5.2*	VII *	ANK
1918	08	09	00	39	40	41.2	36.2	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1918	08	29	06	39	25	41.6	35.7	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1918	08	29	06	39	40	40.6	35.2	10	5.2*	5.1*	5.3	5.1*	VII *	ANK
1918	11	13	10	13	27	37.5	27.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1919	01	08	10	12	53	40.9	42.2	40	5.2*	5.0*		5.2	VI	SSR
1919	05	27	10	34	02	37.2	35.4	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1919	05	27	10	35	15	39.1	31.0	10	5.2*	5.1*	5.3	5.1*	VII *	ANK
1919	06	09	07	13	40	40.7	34.1	33	5.5*	5.8*	6.0	5.3*	VII *	KRK
1919	06	09	15	47	15	40.7	34.1	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1919	10	13	07	54		41.5	28.0	12	4.9*	4.3*		4.5	VI	KRK
1919	10	13	07	54	09	40.1	28.9	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1919	10	13	07	54	10	41.5	28.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1919	10	13	13	04	10	41.5	28.0		5.0*	4.6*	4.8	4.9*	VII *	ANK
1919	**11**	**18**	**21**	**54**		**39.6**	**27.7**		**6.0***	**7.0**		**5.7***	**VIII***	
1919	11	27				39.2	27.2	30	5.6*	5.9*		6.0	VII	KRK
1920	02	26	23	04	03	38.8	32.9		5.1*	4.8*	5.0	5.0*	VII *	ANK
1920	04	02	15	34	20	37.5	27.5	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1920	05	01	06	34	40	37.0	28.7	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1920	06	12	01	20		37.5	30.7	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1920	07	02	14	13		37.5	29.0	15	4.9*	4.3*		4.5	VI *	KRK
1920	07	04	12	17	58	37.5	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1920	07	04	20	45	40	37.5	29.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1920	09	28	15	17		38.0	27.0	40	5.4*	5.6*		5.7	VIII*	KRK
1920	09	28	15	17	20	38.0	29.5	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1920	09	28	15	17	37	37.9	28.3	10	5.4*	5.5*	5.7	5.2*	VII *	ANK
1920	11	27	16	26		39.3	26.5	14	5.1*	4.7*		4.9	VI	KRK
1920	11	27	16	26	20	37.5	27.5		5.2*	5.1*	5.3	5.1*	VII *	ANK
1920	11	27	16	26	20	39.5	26.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1921	01	16	23	55	48	38.8	32.9	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1921	04	13	04	54	05	38.4	31.8	33	5.2*	5.0*	5.2	5.0*	IX	KRK
1921	05	22	21	23	16	37.0	28.7	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1921	07	24	19	20		39.0	27.0		5.1*	4.7*	4.9	4.9*	VII *	ANK
1921	08	02	03	17	40	39.0	27.0		5.0*	4.6*	4.8	4.9*	VII *	ANK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1921	09	26	09	25	55	39.3	33.2	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1921	09	26	09	26	10	38.4	31.8	10	5.3*	5.2*	5.4	5.1*	VII *	ANK
1921	10	05	19	09	46	36.4	35.2	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1922	02	01	16	52	44	38.0	37.0	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1922	06	03	04	14		37.4	30.5	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1922	06	19	00	39	12	40.5	26.0		5.1*	4.7*	4.9	4.9*	VII *	ANK
1922	08	29	03	36		38.0	33.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1922	11	20	04	24	44	37.5	29.0	33	5.1*	4.7*	4.9	4.9*	VII •	KRK
1922	12	06	14	01		37.5	29.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1923	04	29	09	34	35	40.0	37.0		5.3*	5.4*	5.6 PAS	5.2*	VII •	G-R
1923	05	29	11	34	20	41.0	30.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1923	08	16	03	51	40	40.0	34.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1923	08	16	03	52		41.0	34.4	40	5.2*	5.0*	5.2	5.0*	VII *	ANK
1923	09	11	10	14	48	38.0	29.5	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1923	10	26	12	13	16	41.2	28.6	33	5.1*	4.8*	5.0	5.0*	VII •	KRK
1924	01	22	11	04	50	39.3	33.2	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1924	01	22	11	05	44	39.5	28.4	80	5.2*	5.1*	5.3	5.1*	VII *	ANK
1924	04	14				39.0	27.8	15	5.0*	4.5*		4.7	VI	KRK
1924	05	13	01	52	33	39.7	42.8	33	5.2*	5.1*	5.3	5.1*	IX	KRK
1924	06	18	17	26	45	40.0	26.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1924	07	25	21	39	24	38.0	43.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1924	09					40.9	29.2	15	4.8*	4.1*		4.3	VI	KRK
1924	09	06	04	50	56	39.1	42.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1924	09	10	11	59	30	37.0	32.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1924	09	13	14	34	05	40.0	42.0		5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1924	09	13	20	45	03	39.7	41.9	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1924	09	13	23	03		38.5	42.4	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1924	09	16	21	37	36	40.0	42.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1924	09	20				40.0	42.0	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1924	09	22	07	42		40.0	42.0	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1924	09	23	23	02	50	40.0	42.0		5.0*	4.5*	4.7	4.9*	VII *	ANK
1924	09	27	04	27	36	39.5	43.9	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1924	09	27	04	27	42	39.9	41.5	10	5.1*	4.8*	5.0	5.0*	VII *	ANK
1924	11	20	20	27	41	38.3	30.2	33	5.5*	5.7*	5.9	5.2*	IX	KRK
1924	12	13	18	53	30	38.0	33.5	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1924	12	22	17	49	42	39.6	27.7	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1925	02	12	06	27	30	40.0	42.0		5.1*	4.9*	5.1	5.0*	VII *	ANK
1925	03	12	01	22		40.0	42.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1925	04	05	03	53	47	36.2	30.2	10	5.2*	5.1*	5.3	5.1*	VII •	ANK
1925	04	29	20	03	40	39.6	27.7	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1925	05	01				37.0	35.3	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1925	06	10	04	45		41.0	29.0	8	4.8*	4.2*		4.4	VI	KRK
1925	06	24	00	00	25	40.8	31.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1925	07	08	19	42		37.4	30.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1925	07	09	07	22		37.4	30.5	15	5.0*	4.6*		4.8	VII *	KRK
1925	07	09	08	27		37.4	30.5	33	5.0*	4.5*	4.7	4.9*	VII •	KRK
1925	07	15	10	05		37.4	30.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1925	07	18	13	22		38.0	27.0	15	4.9*	4.3*		4.5	VI *	KRK
1925	07	26	02	53	54	39.8	40.9	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1925	07	29	19	08	54	37.5	27.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1925	08	05	05	01		37.4	30.5	15	5.1*	4.7*		4.9	VII *	KRK
1925	**08**	**07**	**06**	**46**		**38.1**	**30.2**		**5.5***	**5.7**		**5.3***	**VII •**	
1925	08	07	06	46	53	37.9	29.3	80	5.5*	5.7*	5.9	5.2*	VII *	ANK
1925	08	07	16	12	56	37.4	30.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1925	08	08	03	04	12	37.4	30.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1925	08	09	17	16	40	37.4	30.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1925	08	16	20	58	54	37.4	30.5	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1925	08	16	20	59	14	37.4	28.8	10	5.1*	4.8*	5.0	5.0*	VII •	ANK
1925	08	18	05	14		38.0	30.0	15	4.9*	4.3*		4.5	VI *	KRK
1925	09	01	08	16		38.0	29.0	15	5.4*	5.5*		5.6	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O	M_L	INTENSITY MAX	SOURCE CODE
1925	09	01	08	16	15	38.4	30.2	10	5.3*	5.2*	5.4	5.1*	VII *	ANK
1925	09	01	08	16	20	38.0	29.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1925	09	03	09	52		38.0	29.0	15	4.9*	4.3*		4.5	VI *	KRK
1925	09	14	09	06	45	39.0	31.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1925	09	20	18	06	52	39.0	31.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1925	12	18	02	28	42	37.4	30.4	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1926	01	13	01	46	44	38.0	29.5	300	5.4*	5.5*	5.7	5.2*	VII *	KRK
1926	01	13	01	47	04	38.6	28.1	50	5.4*	5.6*	5.8	5.2*	VII *	ANK
1926	01	13	08	08	24	38.0	29.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1926	01	13	08	08	44	38.5	28.2	10	5.4*	5.5*	5.7	5.2*	VII *	ANK
1926	02	08				37.1	27.9	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1926	02	08	19	48		37.1	27.9	7	5.2*	5.0*		5.2	VII	KRK
1926	03	01	20	01	42	36.8	30.0	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1926	03	03	06	58		36.8	30.0		5.1*	4.8*		5.0	VII *	KRK
1926	03	04	19	39		36.8	30.0		5.0*	4.6*		4.8	VII *	KRK
1926	03	16				37.8	29.1	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1926	03	16	17	53		37.5	29.0	33	5.5*	5.8*	6.0	5.3*	IX	KRK
1926	03	17	13	20		37.0	35.0	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1926	03	18	23	28		36.0	29.0	12	5.0*	4.5*		4.7	VII *	KRK
1926	03	21	22	04	45	37.9	29.1	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1926	03	24	07	05	12	38.2	27.1	10	5.3*	5.2*	5.4	5.1*	VII *	ANK
1926	04	01	05	04		36.0	29.0	14	5.1*	4.8*		5.0	VII *	KRK
1926	04	20	22	28		36.0	29.0	15	5.0*	4.6*		4.8	VII *	KRK
1926	12					40.8	30.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1926	12	16	17	53		40.8	30.4	25	5.4*	5.5*		5.6	VI	KRK
1926	12	16	17	53	50	39.0	31.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1926	12	16	17	54	05	40.1	30.7	10	5.4*	5.5*	5.7	5.2*	VII *	ANK
1926	12	20	10	31	06	39.0	31.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1927	01					40.8	30.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1927	02	07	06	04	36	39.0	31.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1927	02	19	23	35	28	37.0	28.7	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1927	05	20	13	59	06	37.5	27.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1927	06	05	02	24	58	36.0	31.0	120	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1927	06	05	08	24	58	36.0	31.0	120	5.6*	6.0*	6.2	5.3*	VIII	KRK
1928	01	24	07	36		41.0	31.0	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1928	**03**	**30**	**09**	**42**		**38.1**	**27.4**		**5.7***	**6.2**		**5.4***	**VII ***	
1928	03	31	00	29	47	38.0	27.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1928	03	31	01	15		38.1	27.4	15	5.1*	4.8*		5.0	VII *	KRK
1928	03	31	05	12	24	38.5	28.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1928	04	02				38.1	27.4	15	4.8*	4.2*		4.4	VI	KRK
1928	04	13				38.5	28.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1928	05	02	21	54		40.5	26.5	18	5.6*	6.0*		6.1	IX	KRK
1928	05	02	21	54	21	39.7	29.3	33	5.6*	5.9*	6.1	5.3*	VIII	KRK
1928	05	03	01	25	13	40.8	26.8	33	4.8*	4.1*	4.3	4.8*	VII	KRK
1928	05	06	18			39.8	30.5	33	5.1*	4.8*	5.0	5.0*	VII	KRK
1928	05	09	20	01	30	40.5	42.7	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1928	07	05	03	31	12	39.2	34.8	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1928	07	15	09	33		38.5	27.3	16	5.3*	5.4*		5.5	VIII	KRK
1928	07	15	09	35	24	38.0	27.3	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1928	10	03	00	56	50	39.7	34.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1928	10	04	11	13	54	39.7	34.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1929	04	05	08	26	55	41.6	31.2	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1929	04	05	23	18	15	41.5	31.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1929	04	08	01	12	14	41.2	32.2	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1929	04	27	22	18	03	41.0	31.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1929	05	08	12	27	30	38.0	29.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1929	05	18	06	37	51	40.0	38.0		5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1929	05	19	06	33	18	39.0	37.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1929	05	25	06	46		39.0	37.5	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1929	06	28	22	18	44	39.0	37.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1929	08	04	09	03	53	36.0	31.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	09	15	13	09	48	39.0	39.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1929	09	15	13	10	14	40.3	38.8	50	5.1*	4.8*	5.0	5.0*	VII *	ANK
1929	10	10	23	01	06	41.2	28.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1929	10	15	04	45	22	38.0	42.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	02	08	05	20	04	37.0	38.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	02	08	05	20	17	38.5	39.4	100	5.1*	4.9*	5.1	5.0*	VII *	ANK
1930	04	09	05	07	46	39.7	34.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1930	04	09	05	27	49	39.0	39.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	04	20	10	20	38	39.0	39.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	05	09	21	08		37.5	43.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1930	07	09	04	35	42	37.1	43.2	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1930	09	11	12	36	44	37.0	31.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1930	12	10	10	31	30	39.5	39.4	33	5.3*	5.4*	5.6	5.2*	VIII	KRK
1931	01	09	07	01	35	38.0	38.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1931	01	11				38.3	31.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1931	01	12	15	06	09	38.5	32.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	01	12	15	55	34	38.5	31.9	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1931	01	28				38.3	31.4	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1931	04	09				38.3	31.7		5.6*	5.9*		6.0	VIII*	KRK
1931	05	06	20	22	25	37.5	39.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1931	06	05	08	24		36.5	31.0	120	5.7*	6.1*		6.2	VIII*	KRK
1931	07	12	22	24	22	39.5	26.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	07	31	00	25	50	40.5	40.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	07	08	11	17		38.9	34.5	12	5.0*	4.6*		4.8	VI	KRK
1932	10	15	22	19	54	40.9	30.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1932	12	26	19	03		37.0	35.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1933	05	15	03	21	02	40.9	30.6	33	5.0*	4.5*	4.7	4.9*	VII •	KRK
1933	06	28	11	54	39	39.3	33.2	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1933	07	12	12	34	53	40.8	34.2	33	5.0*	4.5*	4.7	4.9*	VII	KRK
1933	07	19	20	07	08	38.2	29.7	100	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1933	07	24				37.8	29.1	15	4.8*	4.2*		4.4	VI	KRK
1933	08	17	06	24	40	37.0	28.7	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1933	09	25	09	46	50	37.0	35.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1933	12	21	18	40	57	40.5	33.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1934	02	25	16	26	28	40.0	37.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1934	06	19	18	43		38.7	29.9	18	5.3*	5.1*		5.3	VII	KRK
1934	06	19	18	43	05	36.5	31.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1934	06	19	18	43	15	37.9	31.1	50	5.2*	5.0*	5.2	5.0*	VII *	ANK
1934	06	19	18	43	15	39.0	31.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	07	14	05	40	48	39.5	26.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1934	11	12	07	19	16	39.0	41.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1934	11	19				38.8	30.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1934	11	27				37.9	40.2	33	5.6*	6.0*	6.2	5.3*	IX	KRK
1934	12	15				38.9	40.5	33	5.4*	5.6*	5.8	5.2*	VIII	KRK
1935	**01**	**04**	**14**	**41**		**40.5**	**27.5**		**5.7***	**6.2**		**5.4***	**VII ***	
1935	01	04	15	19	24	40.6	27.4	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1935	01	04	16	20		40.2	27.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1935	03	05	16	10		41.5	34.5	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1935	04	19				39.6	43.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1935	**05**	**01**	**10**	**24**		**39.3**	**40.6**		**5.7***	**6.1**		**5.4***	**VII •**	
1935	07	12	02	30		40.6	33.6	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1935	08	18	09	00	10	39.6	43.1		5.1*	4.8*	5.0	5.0*	VII *	ANK
1935	10	13	19	32	15	38.1	41.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1935	10	13	19	32	22	39.3	40.5	40	5.1*	4.8*	5.0	5.0*	VII *	ANK
1935	10	14	07	27	10	39.2	40.6	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1935	10	22	07	29	44	40.0	27.2	33	5.2*	5.0*	5.2	5.0*	VII •	KRK
1935	12					40.8	33.6	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1936	02	02	17	08	24	37.5	38.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1936	03	23	19	46	22	39.0	42.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1936	03	24	19	46	22	39.0	42.0	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1936	05	01	10	24	44	39.6	43.1	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1936	05	02	20	57	30	39.8	43.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1936	06	14	17	01	30	37.0	35.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1936	08	02	18	21	08	38.0	29.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1936	08	02	22	41	09	38.0	29.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1936	08	03	04	01	36	36.5	31.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1936	08	10	06	31	57	36.5	31.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1936	08	12	22	24	20	37.0	28.7	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1936	09	21	11	41	24	41.0	33.0		5.3*	5.4*	5.6 PAS	5.2*	VII •	G-R
1936	09	21	12	27	09	41.0	33.5	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1936	09	21	13	09	39	41.0	33.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1936	09	22	11	56	54	41.0	33.5	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1936	11	18	15	50	15	41.0	33.5	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1937	03	07	19	10	45	38.4	43.7	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1937	05	23	10	57	20	38.0	27.5	33	5.3*	5.2*	5.4	5.1*	VIII	KRK
1937	05	29	15	22	40	36.3	30.7	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1937	07	06	06	52		39.5	26.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1937	12	07	09	30	51	39.0	40.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1938	**04**	**19**	**10**	**56**		**39.1**	**34.0**		**5.9***	**6.8**		**5.6***	**VII ***	
1938	**04**	**19**	**10**	**59**		**39.6**	**33.7**		**5.9***	**6.7**		**5.6***	**VII •**	
1938	04	19	23	11	12	39.5	33.7	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1938	04	27	10	40	18	39.5	33.7	33	4.9*	4.4*	4.6	4.8*	VII •	KRK
1938	05	01				37.2	28.4	15	4.9*	4.3*		4.5	VI	KRK
1938	05	14	04	45	48	39.5	33.7	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1938	05	14	06	55	17	39.5	33.7	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1938	05	28	00	05		39.4	33.8	30	5.1*	4.7*	4.9	4.9*	VII *	ANK
1938	05	31	17	55	18	41.0	33.5	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1938	05	31	18	03	11	41.0	33.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1938	05	31	19	34	47	41.0	33.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1938	07	02	12	26	32	39.0	28.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1938	07	02	12	26	45	40.2	27.9	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1938	07	21	21	56	03	39.5	33.7	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1938	11	25	04	10		39.0	38.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1938	12	16	11	02	59	39.5	33.7	33	5.0*	4.6*	4.8	4.9*	VII	KRK
1938	12	23	01	32	22	39.3	32.4	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1939	01	02	04	35		38.5	27.0	13	5.3*	5.1*		5.3	VIII	KRK
1939	**01**	**02**	**04**	**35**		**36.3**	**30.7**		**5.3***	**5.3**		**5.1***	**VII ***	
1939	01	02	04	36	17	39.7	27.9	100	5.4*	5.5*	5.7	5.2*	VII *	ANK
1939	03	13	03	36	45	36.0	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1939	07	24	22	05	01	37.2	28.3	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1939	07	24	22	05	33	39.7	28.5	50	5.0*	4.6*	4.8	4.9*	VII *	ANK
1939	07	25	03	40	22	39.8	29.6	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1939	07	31	13	32	45	39.8	29.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1939	08	02	13	06	10	39.8	29.6	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1939	08	03	12	32	47	39.8	29.6	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1939	08	09	23	43	44	39.8	29.6	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1939	09	15	23	16	24	39.7	30.2		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	09	22	00	36	32	39.0	27.0		5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1939	09	22	00	36	36	39.1	29.9	10	6.0*	6.9*	7.1	5.6*	VII *	ANK
1939	10	19	21	32	44	39.8	29.6	33	5.2*	5.1*	5.3	5.1*	VIII	KRK
1939	**11**	**21**	**08**	**43**		**39.7**	**40.4**		**5.1***	**4.7**		**4.9***	**VII •**	
1939	12	25	06	34	35	40.0	27.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1939	**12**	**26**	**23**	**57**		**39.5**	**38.5**	**5**	**6.4***	**7.9**		**5.9***	**VIII***	
1939	**12**	**26**	**23**	**57**		**39.7**	**39.5**		**6.5***	**8.0**		**6.0***	**VIII***	
1939	12	27	02	48	25	39.6	38.1	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1939	12	27	20	00	49	40.8	36.8	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1939	12	27	22	34	08	40.8	36.8	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1939	12	28	02	23	22	40.8	36.8	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1939	12	28	03	25	20	40.0	37.0	33	5.4*	5.5*	5.7	5.2*	VII	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1939	12	29	11	33	31	39.7	39.7	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1939	12	29	13	18	15	39.7	39.7	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1939	12	29	16	05		41.8	39.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1940	01	02	00	07		40.6	35.9	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1940	01	26	20	56	04	40.4	38.5	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1940	02	01	05	12	56	41.0	33.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1940	02	02	15	46	21	39.6	38.1	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1940	02	04	18			39.7	39.5	33	5.1*	4.8*	5.0	5.0*	VIII	KRK
1940	**02**	**20**				**38.4**	**35.5**		**5.5***	**5.7**		**5.3***	**VII ●**	
1940	03	17	09	08	51	38.0	43.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1940	04	13	06	29	04	39.5	36.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1940	04	22	12	20	39	39.7	39.7	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1940	05	29	15	24	44	39.7	39.7	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1940	06	07	19	49	24	39.6	38.1	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1940	06	13	11	01	53	41.0	30.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1940	07	30	00	12	07	39.7	35.5		5.6*	6.0*	6.3 PAS	5.4*	VII ●	G-R
1940	07	31	10	36	31	39.5	35.2	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1940	08	19	20	43	36	40.0	30.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1940	09	11				39.9	38.8	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1940	09	23	19	30	18	38.9	39.4	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1940	10	11	01	37	09	41.0	33.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1940	10	18	12	25	44	39.6	42.2	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1940	10	21				38.5	27.2	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1940	10	21	18	23		38.5	27.2	20	4.8*	4.1*		4.3	VI	KRK
1940	12	20	05	18		38.3	38.2	33	5.4*	5.6*	5.8	5.2*	VIII	KRK
1940	12	21				39.2	39.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1941	01	09	18	13	24	38.0	27.5	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1941	02	09	09	23	15	41.0	29.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1941	04	20	22	23	05	37.5	36.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1941	04	27	13	01	32	40.0	35.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	05	23	19	51	53	37.2	28.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1941	05	23	20	25	24	37.2	28.3	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1941	05	23	22	34	12	37.2	28.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	05	23	23	00	40	37.2	28.3	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1941	06	07				37.2	28.3	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1941	06	07	19	52		37.2	28.3	5	4.8*	4.2*		4.4	VII	KRK
1941	06	23	08	00	26	37.2	28.3	33	5.1*	4.7*	4.9	4.9*	VII	KRK
1941	**09**	**10**	**21**	**53**		**39.5**	**43.3**		**5.6***	**6.0**		**5.4***	**VII ***	
1941	09	13	13	13		39.7	43.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1941	09	14				39.7	43.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1941	09	15				39.7	43.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1941	09	21	22	40	20	37.2	28.3	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1941	10	14				37.2	28.4	15	4.9*	4.4*		4.6	VI	KRK
1941	11	08	12	16		39.7	39.7	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1941	11	12	10	04	49	39.7	39.7	33	5.5*	5.7*	5.9	5.2*	IX	KRK
1941	11	14	08	55		39.7	39.7	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1941	12	02	05	02	56	37.5	41.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1941	12	02	05	22	56	37.5	41.0	33	5.1*	4.9*	5.1	5.0*	V	KRK
1941	12	13	06	16	05	37.0	28.0	100	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1942	02	05	01	13	55	39.0	28.0	33	5.3*	5.2*	5.4	5.1*	VII	KRK
1942	02	05	01	15		38.9	29.8	17	5.3*	5.2*		5.4	VII	KRK
1942	02	05	01	15	58	38.8	27.7	10	5.1*	4.9*	5.1	5.0*	VII *	ANK
1942	02	07	10	23	34	38.9	39.4	33	5.0*	4.6*	4.8	4.9*	V	KRK
1942	06	02	22			37.8	29.1	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1942	06	16	05	42	27	40.4	28.0	33	5.3*	5.4*	5.6	5.2*	VII	KRK
1942	07	20	11	30		40.6	35.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1942	08	12	20	38	38	39.2	27.7	33	5.0*	4.6*	4.8	4.9*	VII	KRK
1942	08	12	21	52	46	39.0	28.0	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1942	10	28	00	31	49	39.0	27.5	33	5.1*	4.8*	5.0	5.0*	IX	KRK
1942	10	28	02	22	46	39.0	27.5	33	5.5*	5.7*	5.9	5.2*	VIII	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1942	10	28	02	41	48	39.0	27.5	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1942	11	15				39.9	27.9	33	5.3*	5.2*		5.1*	VIII	KRK
1942	11	15	17	01		39.4	28.1	18	5.7*	6.1*		6.2	IX	KRK
1942	**11**	**15**	**17**	**01**		**39.2**	**28.2**		**5.3***	**5.2**		**5.1***	**VII ***	
1942	11	15	17	01	15	39.8	29.6	33	5.6*	6.0*	6.2	5.3*	IX	KRK
1942	**11**	**21**	**14**	**01**		**40.3**	**34.6**		**5.3***	**5.2**		**5.1***	**VII ***	
1942	**11**	**26**	**22**	**20**		**40.5**	**34.0**		**6.3***	**7.6**		**5.8***	**VIII***	
1942	**12**	**02**	**19**	**04**		**40.6**	**35.0**		**5.3***	**5.2**		**5.1***	**VII ***	
1942	**12**	**11**	**02**	**39**		**40.8**	**35.1**		**5.3***	**5.2**		**5.1***	**VII ***	
1942	**12**	**20**	**14**	**03**		**40.7**	**36.8**		**6.2***	**7.3**		**5.8***	**VIII***	
1942	**12**	**20**	**14**	**03**		**40.0**	**37.0**							
1943	01	08	23	56		37.0	28.0	19	5.2*	5.0*		5.2	VII	KRK
1943	01	08	23	56	21	39.8	29.6	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1943	01	08	23	56	43	40.9	28.1	20	5.1*	4.8*	5.0	5.0*	VII *	ANK
1943	01	11	11	56	16	37.2	28.3	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1943	**01**	**20**	**15**	**32**		**40.8**	**30.5**		**5.9***	**6.6**		**5.5***	**VII ***	
1943	04	14	08	15	34	39.8	29.6	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1943	**06**	**20**	**15**	**32**		**40.8**	**30.6**		**5.7***	**6.2**		**5.4***	**VII ***	
1943	06	20	16	47	55	40.8	30.4	33	5.3*	5.3*	5.5	5.1*	VI	KRK
1943	06	29				39.9	41.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1943	09	06	16	32		39.0	27.0	19	5.1*	4.7*		4.9	VI	KRK
1943	09	06	16	32	44	39.7	30.8	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1943	09	08	14	35		40.7	30.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1943	10	07	15	30		40.6	37.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1943	11	15	11	43	08	36.6	29.1	140	5.3*	5.3*	5.5	5.1*	VII *	ANK
1943	**11**	**26**	**22**	**20**		**41.0**	**33.7**		**6.3***	**7.6**		**5.8***	**VIII***	
1943	11	27	06	06	17	40.5	34.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1943	11	27	08	09	45	40.5	34.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1943	11	27	23	29	28	40.5	34.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1943	11	27	23	39	37	40.8	33.9	40	5.1*	4.7*	4.9	4.9*	VII *	ANK
1943	11	29	18	45	35	38.5	41.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1943	**12**	**05**				**40.0**	**40.0**							
1943	12	07	01	19		41.0	35.6	33	5.3*	5.4*	5.6	5.2*	VIII	KRK
1944	01	02	10	59	46	40.5	34.0	33	5.1*	4.8*	5.0	5.0*	VI	KRK
1944	01	02	11	00	21	41.0	31.1	100	5.1*	4.8*	5.0	5.0*	VII *	ANK
1944	01	05	07	44		37.2	27.5	16	5.4*	5.5*		5.6	VIII	KRK
1944	**02**	**01**	**03**	**23**		**41.5**	**32.4**		**6.2***	**7.4**		**5.8***	**VIII***	
1944	**02**	**01**	**03**	**23**		**41.0**	**33.0**							
1944	02	01	06	08	44	41.5	32.4	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1944	02	01	21	24	37	41.5	32.4	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1944	02	02	03	33	09	41.5	32.4	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1944	02	10	12	05	24	41.5	32.4	33	5.3*	5.2*	5.4	5.1*	VII	KRK
1944	02	17	18	36		37.3	42.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1944	02	23				38.7	41.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1944	03	11	09			40.8	32.2	33	5.4*	5.6*	5.8	5.2*	VIII	KRK
1944	03	25	12	55		37.7	36.7	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1944	04	05	04	40	40	40.6	39.0	33	5.3*	5.4*	5.6	5.2*	VII	KRK
1944	04	05	04	40	43	40.8	31.1	10	5.3*	5.3*	5.5	5.1*	VII *	ANK
1944	04	05	06	51		37.5	42.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1944	04	15	04	40		40.5	31.2		5.4*	5.5*		5.6	VII *	KRK
1944	05	27	23	52	25	37.2	28.3	33	5.5*	5.7*	5.9	5.2*	VII *	KRK
1944	06	25	04	16	19	38.9	29.3	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1944	06	25	04	16	25	38.8	27.3	40	5.6*	6.0*	6.2	5.3*	VII *	ANK
1944	06	25	06	57	44	39.0	29.8	33	5.3*	5.2*	5.4	5.1*	VII	KRK
1944	06	28	02	15		37.5	35.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1944	07	17	10	53	39	37.3	42.2	33	5.5*	5.7*	5.9	5.2*	VIII	KRK
1944	09	30	04	13	12	41.2	35.2	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1944	10	06	02	34	41	39.4	26.7	33	5.9*	6.6*	6.8	5.5*	XII	KRK
1944	10	06	07	28	16	39.4	26.7	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1944	**10**	**06**	**21**	**34**		**39.4**	**26.7**		**5.7***	**6.3**		**5.4***	**VII ***	

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1944	10	18	12	54		40.8	33.4	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1944	12	22	09	34		39.9	41.3	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1945	01	15	05	31		39.0	43.3	33	5.0*	4.7*		4.9*	VII	KRK
1945	02	09	02	28		40.5	31.2	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1945	03	02	10	39	39	41.0	33.5	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1945	03	08	10	07	05	41.5	32.4	33	5.1*	4.8*	5.0	5.0*	VI	KRK
1945	03	08	10	27	10	41.8	32.4	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1945	**03**	**20**	**07**	**59**		**37.4**	**35.8**		**5.1***	**4.7**		**4.9***	**VII ●**	
1945	06	07	01	20	37	41.0	33.5	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1945	07	11	04	30		38.8	43.3	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1945	07	21	01	33	18	38.8	43.3	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1945	**07**	**29**	**08**	**56**		**38.5**	**43.3**		**5.1***	**4.7**		**4.9***	**VII ***	
1945	09					39.0	43.3	33	5.4*	5.6*	5.8	5.2*	VIII	KRK
1945	10	26	13	56	44	41.7	33.2	33	5.4*	5.5*	5.7	5.2*	VII	KRK
1945	11	20	06	27	53	38.0	43.0	33	5.2*	5.0*	5.2	5.0*	VIII	KRK
1945	11	20	06	28		39.9	31.4	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1945	11	28	12	02	56	41.8	38.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1945	**12**	**21**				**38.0**	**28.9**		**5.5***	**5.7**		**5.3***	**VII ●**	
1945	12	21	18	35		37.9	29.0	4	5.0*	4.5*		4.7	IX	KRK
1946	01	21	11	25	22	40.8	33.4	33	5.1*	4.7*	4.9	4.9*	V	KRK
1946	02	21	15	43	02	38.3	32.2	33	5.3*	5.4*	5.6	5.2*	VIII	KRK
1946	02	27				37.9	28.8	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1946	04	12	07	36		38.2	28.0	27	5.1*	4.8*		5.0	VI	KRK
1946	**05**	**31**	**03**	**12**		**40.0**	**41.5**		**5.6***	**6.0**		**5.4***	**VII ***	
1946	05	31	03	12	39	38.8	41.4	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1946	07	16	19	45	23	38.5	31.0	33	5.2*	5.0*	5.2	5.0*	V	KRK
1946	08	25	11	23	42	41.7	33.6	33	5.0*	4.6*	4.8	4.9*	V	KRK
1947	01	27	03	31		37.7	30.6	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1947	04	12	16	10	42	39.8	26.7	33	5.0*	4.6*	4.8	4.9*	V	KRK
1947	04	19	17	39	12	37.9	43.1	33	5.1*	4.9*	5.1	5.0*	V	KRK
1947	05	03	04	14		39.0	30.0	15	5.3*	5.1*		5.3	VII *	KRK
1947	07	27	20	09	04	39.3	41.2	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1947	12	07	19	23	01	39.9	42.7	33	4.9*	4.3*	4.5	4.8*	VII	KRK
1947	12	09	23	40		36.8	35.7	33	5.3*	5.4*	5.6	5.2*	VII	KRK
1947	12	09	23	40	03	36.5	34.3	10	5.2*	5.0*	5.2	5.0*	VII *	ANK
1947	12	09	23	40	05	36.6	35.5	33	5.4*	5.6*	5.8	5.2*	VIII	KRK
1947	12	14				39.9	42.5	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1947	12	19	17	31	14	40.8	32.6	33	5.1*	4.7*	4.9	4.9*	V	KRK
1948	01	13	14	30	24	37.8	29.1	33	5.0*	4.6*	4.8	4.9*	IV	KRK
1948	05	19	17	52	10	39.3	41.2	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1948	06	20	14	58	20	39.3	41.2	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1948	08	10	13	27		38.4	29.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1948	08	18	19	06	09	38.9	39.4	33	5.1*	4.8*	5.0	5.0*	VII	KRK
1948	08	20				38.1	28.8	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1948	10	12	12	57	26	38.5	41.5	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1948	11	09	22	45		40.1	26.4	90	5.0*	4.5*		4.7	V	KRK
1948	11	13	04	44		40.8	29.9	20	5.4*	5.5*		5.6	VII	KRK
1948	11	13	04	44	36	40.5	27.5	33	5.3*	5.4*	5.6	5.2*	VII	KRK
1948	11	13	04	44	50	40.2	28.7	33	4.8*	4.1*		4.8*	VI	KRK
1949	01	04	20	30		38.9	27.9	33	4.9*	4.3*	4.5	4.8*	VI	KRK
1949	02	05	00	28	15	39.8	29.6	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1949	03	06				38.7	39.9	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1949	04	25	23	09	03	37.9	40.2	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1949	04	25	23	09	21	38.3	39.0	80	5.2*	5.1*	5.3	5.1*	VII *	ANK
1949	04	26	19	10		38.3	38.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1949	05	08	09	36		38.4	29.0	8	4.7*	3.9*		4.1	VI	KRK
1949	05	08	10	30		38.4	29.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1949	05	13	20	14	01	40.8	32.9	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1949	07	07	00	55		37.5	36.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1949	**08**	**17**	**18**	**44**		**39.4**	**40.9**		**5.8***	**6.5**		**5.5***	**VII ●**	

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1949	08	17	20	38	07	39.5	40.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1949	08	17	20	45	25	39.5	40.6	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1949	08	23	13	40	42	39.5	40.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1949	08	29	00	19	15	39.5	40.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1949	10	16	12	45		39.1	42.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1949	11	01	04	10		39.3	40.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1949	11	28	18	47	18	41.0	30.7	10	5.0*	4.5*	4.7	4.9*	VII *	ANK
1949	12	30				39.3	40.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1950	01	02	13	43		38.0	30.0	15	4.7*	3.9*		4.1	VI	KRK
1950	01	02	21	15		39.3	41.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1950	01	14	22	19	40	36.5	35.8	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1950	**02**	**04**	**09**	**31**		**40.0**	**40.0**							
1950	05	03	07	13		39.0	26.7	5	5.1*	4.7*		4.9	VII *	KRK
1950	05	03	07	13	53	39.8	27.6	33	5.1*	4.7*	4.9	4.9*	VII	KRK
1950	05	09	09	19	50	38.2	40.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1950	05	09	09	20	03	38.2	38.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1950	08	27	22	03	05	39.1	42.0	33	4.9*	4.3*	4.5	4.8*	VI	KRK
1950	09	04	12	17	05	41.1	34.2	33	5.0*	4.6*	4.8	4.9*	IV	KRK
1950	11	08	10	07	45	38.3	39.1	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1950	11	25	17	18	55	37.1	42.5	60	5.1*	4.7*	4.9	4.9*	VII *	ANK
1950	11	28	17	53	19	40.0	27.9	33	5.1*	4.8*	5.0	5.0*	VII	KRK
1951	01	25	03	49	20	37.5	36.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1951	02	02	23	59		37.0	30.5	90	5.3*	5.2*		5.4	VI	KRK
1951	03	18	09	24	31	40.0	41.7	33	5.0*	4.7*		4.9*	VII	KRK
1951	05	08	13	28		39.8	38.2	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1951	**08**	**13**	**18**	**33**		**40.8**	**33.4**		**5.9***	**6.7**		**5.6***	**VII ●**	
1951	08	13	22	58	42	40.8	33.4	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1951	08	14	18	45	59	40.8	33.3	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1951	08	14	20	23	08	40.8	33.4	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1951	09	15	22	52	07	40.3	28.1	33	5.1*	4.8*	5.0	5.0*	VI	KRK
1951	11	05	13	43	54	36.0	29.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1951	11	11	13	43		36.0	29.0		4.9*	4.3*		4.5	VI *	KRK
1951	12	13	20	46	03	40.1	26.2	50	5.1*	4.9*	5.1	5.0*	VII *	ANK
1952	**01**	**03**	**06**	**03**		**39.5**	**41.5**		**5.4***	**5.6**		**5.2***	**VII ●**	
1952	01	22	23	15		40.8	30.4	15	4.8*	4.1*		4.3	VI	KRK
1952	01	26	02	50		39.1	26.9	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1952	01	31	00	21		40.0	41.7	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1952	03	13	06	29	53	40.7	29.1	10	5.3*	5.2*	5.4	5.1*	VII *	ANK
1952	03	13	06	30		41.0	27.8	15	5.1*	4.7*		4.9	VII *	KRK
1952	03	19	01	27	24	40.0	28.8	33	5.3*	5.2*	5.4	5.1*	VII	KRK
1952	04	09	08	34	21	38.0	27.5		4.8*	4.1*		4.8*	VI	ISS
1952	**06**	**03**				**39.8**	**39.5**		**5.1***	**4.7**		**4.9***	**VII ●**	
1952	09	03	13	48	02	39.0	43.0	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1952	09	15	19	29		37.6	27.6	32	4.9*	4.4*		4.6	VI *	KRK
1952	09	23	20	30	52	36.7	29.6	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1952	**10**	**22**	**17**	**00**		**36.5**	**35.5**		**5.2***	**5.0**		**5.0***	**VII ●**	
1953	02	14	20	52	30	38.5	43.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	**03**	**18**	**19**	**06**		**40.0**	**27.5**		**6.2***	**7.3**		**5.8***	**VIII***	
1953	03	18	20	20		40.0	27.5	30	5.1*	4.8*		5.0	VII *	KRK
1953	03	18	20	34	55	40.0	27.8	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1953	03	18	21	18	08	40.1	27.3	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1953	03	18	22	28		40.0	27.3	30	5.0*	4.6*		4.8	VII *	KRK
1953	03	18	23	20		40.0	27.3	30	4.9*	4.3*		4.5	VI *	KRK
1953	03	19	12	53	42	40.1	27.3	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1953	03	19	21	13	56	40.1	27.3	33	5.1*	4.8*	5.0	5.0*	VII	KRK
1953	03	22	13	17	08	40.1	28.4	40	4.9*	4.4*	4.6	4.8*	VII *	ANK
1953	03	23				40.0	27.3		5.3*	5.4*		5.5	VII *	KRK
1953	03	23	05	22	36	38.9	41.3	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1953	03	24	20	20		40.0	27.5	12	5.0*	4.5*		4.7	VI	KRK
1953	03	24	20	20	23	38.8	29.0	40	5.1*	4.7*	4.9	4.9*	VII *	ANK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1953	03	24	21	17	42	37.0	37.0	33	5.1*	4.8*	5.0	5.0*	V	KRK
1953	03	26	15	10	28	40.1	27.3	33	5.0*	4.5*	4.7	4.9*	VI	KRK
1953	03	31	18	24		40.1	27.3	15	5.2*	5.0*		5.2	VII *	KRK
1953	04	01	01	47	35	40.1	27.3	33	5.1*	4.7*	4.9	4.9*	V	KRK
1953	04	13	23	15	18	38.0	27.0	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1953	04	17	21	50		37.6	27.6	16	4.9*	4.3*		4.5	VI *	KRK
1953	05	01	20	06		39.0	26.2	6	5.1*	4.8*		5.0	VII *	KRK
1953	05	02	10	06	51	38.6	27.2	100	5.0*	4.6*	4.8	4.9*	VII *	ANK
1953	06	03	16	05	23	40.1	28.8	33	5.2*	5.1*	5.3	5.1*	VIII	KRK
1953	06	09	16	28	22	39.5	27.1	33	4.9*	4.4*	4.6	4.8*	V	KRK
1953	06	09	16	28	25	39.3	28.2	20	5.1*	4.7*	4.9	4.9*	VII *	ANK
1953	07	22	15	09	32	39.0	28.4	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1953	09	05	01	08	12	37.0	29.3	80	5.2*	5.0*	5.2	5.0*	VII *	ANK
1953	09	07	03	58	57	41.2	32.7	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1953	10	08	10	26	57	40.2	38.2	80	5.2*	5.0*	5.2	5.0*	VII	KRK
1953	10	14	20	13	58	38.7	41.9	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	10	20	05	36	55	41.9	40.8	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1953	11	24	11	20		38.7	39.9	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1953	12	13	19	38	05	40.6	33.6	33	5.0*	4.6*	4.8	4.9*	V	KRK
1953	12	15	16	40	19	39.1	41.4	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1953	12	15	18	25	11	39.0	41.5	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1954	03	23	12	58	46	40.5	27.5	100	5.1*	4.8*	5.0	5.0*	V	KRK
1954	03	27	14	13	46	38.8	41.5		4.9*	4.4*	4.6	4.8*	VII *	KRK
1954	03	28	04	47	53	39.1	41.0	33	5.3*	5.2*	5.4	5.1*	IX	KRK
1954	04	08	04	18	04	37.2	29.7	33	5.0*	4.6*	4.8	4.9*	V	KRK
1954	05	01	14	58	18	37.7	27.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1954	05	01	15	24	53	37.7	27.0	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1954	05	01	20	53	25	37.7	27.0	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1954	05	01	23	31	42	37.7	27.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1954	06	05	19	56		39.8	41.3	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1954	08	19	21	03	27	41.2	36.2	33	5.0*	4.6*	4.8	4.9*	VIII	KRK
1954	08	20	22	50	11	37.5	27.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1954	08	25	02	01	27	37.3	30.0	40	5.1*	4.7*	4.9	4.9*	VII *	ANK
1954	10	24	00	44	36	40.0	40.0	33	5.5*	5.8*	6.0	5.3*	VIII	KRK
1954	10	24	23	37	13	40.5	28.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1954	10	26	10	34	18	40.5	28.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1954	11	07	22	52	51	40.2	39.8	33	4.8*	4.0*	4.2	4.7*	VII	KRK
1955	01	09	04	31	30	38.5	43.9	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1955	06	26	21	12	35	41.1	33.3	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1955	**07**	**16**	**07**	**07**		**37.6**	**27.2**		**5.9***	**6.8**		**5.6***	**VII ***	
1955	07	18	03	06	11	37.8	27.7	40	5.1*	4.7*	4.9	4.9*	VII *	ANK
1955	07	21	13			38.9	27.9	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1955	08	28	13	39	19	37.5	27.3	33	5.0*	4.5*	4.7	4.9*	V	KRK
1955	11	10	08	42	01	37.4	27.2	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1955	11	11	18	27		37.5	27.2	26	5.0*	4.5*		4.7	VII *	KRK
1956	01	06	12	15		40.5	26.2	13	5.3*	5.4*		5.5	VII	KRK
1956	01	06	14	52		41.8	30.5	15	5.1*	4.8*		5.0	VII *	KRK
1956	**02**	**20**	**20**	**31**		**40.0**	**30.5**		**5.5***	**5.8**		**5.3***	**VII ***	
1956	02	23	06	04		39.9	30.5	14	4.9*	4.3*		4.5	VI	KRK
1956	06	22	00	46	53	38.5	31.9	40	4.9*	4.4*	4.6	4.8*	VII *	ANK
1956	07	14	19	01		40.2	31.0		4.9*	4.3*		4.5	VI *	KRK
1956	07	18	09	46	52	40.0	27.3	60	4.9*	4.3*	4.5	4.8*	VII *	ANK
1956	08	28	01	29		41.3	30.1	15	5.0*	4.5*		4.7	VII *	KRK
1956	11	20	23	20		39.3	26.3	24	5.2*	4.9*		5.1	VII *	KRK
1957	02	22	07	57	42	40.3	39.8	10	5.1*	4.9*	5.1	5.0*	VII *	ANK
1957	03	28	22	26		39.3	27.7	17	5.2*	4.9*		5.1	VI	KRK
1957	04	18	05	25	04	38.7	39.7	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1957	**04**	**25**	**02**	**25**		**36.6**	**29.2**	**50**	**6.1***	**7.1**		**5.7***	**VIII***	
1957	**05**	**26**	**06**	**33**		**40.7**	**30.9**		**6.1***	**7.2**		**5.7***	**VIII***	
1957	**05**	**26**	**06**	**33**		**40.6**	**31.2**		**6.1***	**7.1**		**5.7***	**VIII***	

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1957	05	26	08	55		40.7	31.2		5.1*	4.7*		4.9	VII *	KRK
1957	05	26	09	14		40.5	31.0		4.9*	4.3*		4.5	VI *	KRK
1957	05	26	09	16	40	41.4	31.1	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1957	05	26	09	37		40.7	31.2		5.5*	5.8*		5.9	VIII*	KRK
1957	05	26	11	01		40.7	31.2		5.5*	5.7*		5.8	VIII*	KRK
1957	05	27	07	05	14	40.8	31.2	80	5.0*	4.5*	4.7	4.9*	VII *	ANK
1957	05	27	08	24	24	41.1	30.6	70	4.9*	4.4*	4.6	4.8*	VII *	ANK
1957	05	27	11	01	26	40.5	31.0		5.6*	6.0*	6.3 ATH	5.4*	VII *	PDE
1957	05	28	00	09	53	40.6	30.5	50	5.0*	4.6*	4.8	4.9*	VII *	ANK
1957	05	28	05	33	48	40.6	31.0	40	5.0*	4.5*	4.7	4.9*	VII *	ANK
1957	05	29	08	47	52	40.7	31.0	20	5.0*	4.5*	4.7	4.9*	VII *	ANK
1957	05	29	10	17	43	40.8	30.8		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1957	06	01	05	26	59	40.8	30.9	50	5.1*	4.8*	5.0	5.0*	VII *	ANK
1957	06	01	21	08	20	40.7	30.8	40	5.0*	4.6*	4.8	4.9*	VII *	ANK
1957	06	02	01	12		40.7	30.8	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1957	07	07	05	58	49	39.2	40.3		5.3*	5.3*	5.5 UPP	5.1*	VII *	ISS
1957	07	21	15	08	17	39.0	43.0	37	4.8*	4.1*		4.3	VII	SSR
1957	09	21	20	17		40.7	34.7		5.1*	4.8*		5.0	VII *	KRK
1957	10	11	07	33		40.0	27.0	30	4.9*	4.3*		4.5	VI *	KRK
1957	10	11	07	33	04	39.3	28.2	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1957	10	24	02	33		40.3	30.0	24	5.0*	4.6*		4.8	VI	KRK
1957	12	26	15	01	44	40.8	29.7	10	5.2*	5.0*	5.2	5.0*	VII *	ANK
1958	01	14	13	34	49	39.5	40.4	60	5.1*	4.9*	5.1	5.0*	VII *	ANK
1958	04	22	10	02		36.5	30.4	80	5.3*	5.1*		5.3	VI	KRK
1958	05	21	10	13	01	40.6	33.4	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1958	09	03	02	58	38	38.3	28.2	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1958	09	04	06	22		37.9	27.6	20	4.8*	4.1*		4.3	VI	KRK
1958	11	06	21	14	04	37.0	31.3	40	5.0*	4.6*	4.8	4.9*	VII *	ANK
1958	12	19	03	27		37.4	29.1	16	5.1*	4.8*		5.0	VII	KRK
1959	01	06	04	06	21	36.8	29.2	20	4.9*	4.3*	4.5	4.8*	VII *	ANK
1959	01	06	14	28	40	36.7	29.1	30	5.0*	4.6*	4.8	4.9*	VII *	ANK
1959	01	07	22	21		36.6	29.1	7	4.8*	4.2*		4.4	VII	KRK
1959	01	07	22	22	03	36.7	29.2	40	5.0*	4.6*	4.8	4.9*	VII *	ANK
1959	01	11	04	27		36.6	29.1	14	4.9*	4.3*		4.5	VI	KRK
1959	01	26	11	38		37.0	29.5	50	5.0*	4.6*		4.8	IV	KRK
1959	01	26	16	15	29	36.7	29.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1959	04	02	04	34		40.1	29.5	10	4.9*	4.4*		4.6	VII	KRK
1959	04	19	08	59	24	39.6	42.3	50	4.9*	4.4*	4.6	4.8*	VII *	ANK
1959	**04**	**25**	**00**	**26**		**37.0**	**28.7**		**5.7***	**6.3**		**5.4***	**VII ***	
1959	06	09	11	21	19	36.8	29.1	20	5.0*	4.5*	4.7	4.9*	VII *	ANK
1959	07	26	17	07		40.9	27.5	30	5.1*	4.8*		5.0	VI	KRK
1959	08	24	17	29	36	39.0	40.0		5.0*	4.5*	4.8 MOS	4.9*	VII *	BCI
1959	09	10	13	59	22	39.6	41.7	70	5.2*	5.1*	5.3	5.1*	VII *	ANK
1959	10	25	15	57	59	39.3	41.6	50	5.1*	4.8*	5.0	5.0*	VII *	ANK
1959	11	19	14			39.3	26.4	8	5.2*	5.0*		5.2	VII *	KRK
1959	12	08	09	35		37.2	28.8	15	5.0*	4.6*		4.8	VII *	KRK
1959	12	09	16	53	57	38.1	39.0	60	4.9*	4.4*	4.6	4.8*	VII *	ANK
1959	12	13	02	08	06	40.9	38.8	10	4.9*	4.3*	4.5	4.8*	VII *	ANK
1959	**12**	**25**	**15**	**57**		**39.1**	**41.6**		**5.7***	**6.2**		**5.4***	**VII •**	
1960	01	09	03	58		37.2	29.0	15	5.0*	4.6*		4.8	VII *	KRK
1960	01	26	09	52		39.5	39.5		5.6*	5.9*	6.1 KIR	5.3*	VII *	PDE
1960	01	26	13	05		36.6	29.1	8	5.1*	4.7*		4.9	VII	KRK
1960	01	28	04	31		36.6	29.1	8	4.7*	3.9*		4.1	VI	KRK
1960	02	21	09	29	15	38.0	42.0		5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1960	03	12	21	25		39.4	36.4		4.9*	4.3*		4.5	VI *	KRK
1960	04	10	22	05		37.8	27.6	14	4.8*	4.2*		4.4	VI	KRK
1960	04	12	04	22		37.9	27.6	11	4.9*	4.3*		4.5	VII	KRK
1960	05	19	17	47	08	38.7	35.9	60	4.9*	4.3*	4.5	4.8*	VII *	ANK
1960	06	09	02	44	08	39.5	39.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	06	19	02	29	41	38.9	37.8	70	4.9*	4.3*	4.5	4.8*	VII *	ANK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1960	07	26	12	36	20	40.5	37.0		4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1960	08	22	13	42	23	39.3	42.0	60	5.0*	4.5*	4.7	4.9*	VII *	ANK
1960	08	31	22	11	59	39.1	36.0	70	5.0*	4.5*	4.7	4.9*	VII *	ANK
1960	09	03	00	00	29	39.3	41.5	70	5.0*	4.6*	4.8	4.9*	VII *	ANK
1960	11	28	05	12	53	36.1	31.1	80	5.0*	4.6*	4.8	4.9*	VII *	ANK
1960	12	01	04	02		38.6	30.9		5.0*	4.6*		4.8	VII *	KRK
1961	03	28	00	44		40.8	30.4	20	5.1*	4.7*		4.9	VI	KRK
1961	06	01	16	31	44	37.6	36.8	40	5.1*	4.8*	5.0	5.0*	VII *	ANK
1961	06	21	16	04		37.8	29.1	13	5.1*	4.8*		5.0	VII	KRK
1961	09	10	16	17	28	37.0	36.1	100	5.0*	4.5*	4.7	4.9*	VII *	ANK
1961	11	01	08	58	45	39.7	40.8	20	4.9*	4.3*	4.5	4.8*	VII *	ANK
1961	11	28	08	58		40.0	26.3	120	5.6*	5.9*		6.0	VI	KRK
1962	04	01	01	39	21	40.8	36.1	10	5.0*	4.5*	4.7	4.9*	VII *	ANK
1962	08	18	04	29	06	37.0	32.5	140	5.0*	4.5*	4.7	4.9*	VII *	ANK
1962	**09**	**04**	**22**	**59**		**39.9**	**43.9**		**5.4***	**5.5**		**5.2***	**VII ***	
1962	09	14	00	32		39.6	28.3	70	5.3*	5.1*		5.3	VII	KRK
1962	09	14	00	33	26	39.6	28.2	40	4.9*	4.3*	4.5	4.8*	VII *	ANK
1963	03	11	07	27		37.9	29.1	24	5.4*	5.5*		5.6	VII	KRK
1963	03	29	03	09		40.3	26.7	10	4.9*	4.4*		4.6	VI	KRK
1963	04	22	15	38	19	41.3	38.5	33	4.7	4.2*		4.7*	VII *	PDE
1963	04	28	00	41	52	39.3	27.8	30	5.0*	4.5*	4.7	4.9*	VII *	ANK
1963	05	23	10	14		36.6	30.0	130	5.3*	5.2*		5.4	VII *	KRK
1963	05	23	10	15	09	36.6	30.0	226	5.6	5.6*		5.3*	VII *	PDE
1963	08	25	06	11	43	38.9	38.4	33	4.8	4.3*		4.8*	VII *	PDE
1963	09	18	16	58		40.6	29.0	21	5.7*	6.3*		6.4	IX	KRK
1963	09	24	02	10		40.8	29.1	12	5.0*	4.5*		4.7	VI	KRK
1963	09	29	13	35		36.6	29.2	30	4.9*	4.4*		4.6	VI	KRK
1963	10	09	04	36	44	39.4	42.8	35	4.6	4.0*		4.6*	VI *	PDE
1963	11	22	20	26		37.3	29.8	5	4.8*	4.2*		4.4	VII	KRK
1963	11	22	21	41		37.2	30.0	20	5.2*	4.9*		5.1	VI	KRK
1964	01	30	17	45		36.9	30.2	30	5.4*	5.6*		5.7	VII	KRK
1964	02	24	11	32	14	39.3	40.1	33	4.8	4.3*		4.8*	VII *	PDE
1964	04	23	14	23	47	38.1	38.8	57	5.1*	4.8*	5.0	5.0*	VII *	ANK
1964	04	25	01	11		37.8	29.8	52	4.9*	4.3*		4.5	VI *	KRK
1964	06	05	00	11	52	39.3	43.1	33	4.6	4.0*		4.6*	VI *	PDE
1964	06	12	07	46	21	37.3	29.9	5	4.9*	4.4*	4.6	4.8*	VII *	ANK
1964	**06**	**14**	**12**	**16**		**38.0**	**38.5**		**5.6***	**6.0**		**5.4***	**VII ***	
1964	06	14	12	38	04	38.1	38.3	31	4.7	4.2*		4.7*	VII *	PDE
1964	06	19	00	50	24	40.7	32.9	33	4.6	4.0*		4.6*	VI *	PDE
1964	07	16	17	40		36.1	30.8	65	4.9*	4.4*		4.6	VI *	KRK
1964	08	21	16	49	13	40.1	40.9	44	4.6	4.0*		4.6*	VI *	PDE
1964	08	27	19	32		36.0	29.0	18	5.3*	5.2*		5.4	VII *	KRK
1964	09	04	03	39	37	39.8	40.3	33	5.0	4.6*		4.9*	VII *	PDE
1964	10	06	14	29		40.2	28.2	23	5.2*	5.0*		5.2	VII *	KRK
1964	**10**	**06**	**14**	**31**		**40.3**	**28.2**	**10**	**6.0***	**7.0**		**5.7***	**VIII***	
1964	10	07	23	07		40.1	28.3	32	4.9*	4.4*		4.6	VI *	KRK
1964	10	20	08	47	56	40.0	28.6		5.0*	4.6*	4.8	4.9*	VII *	ANK
1964	11	16	05	27	34	39.8	39.9	39	5.1	4.8*		5.0*	VII *	PDE
1964	12	15	21	03		40.0	28.8	29	4.9*	4.4*		4.6	VI *	KRK
1965	01	20	07	09	44	40.5	34.0	33	4.9*	4.3*	4.5	4.8*	VII *	ANK
1965	03	02	22			38.3	28.1	32	5.3*	5.4*		5.5	VI	KRK
1965	03	03	01	37		38.3	28.5	42	4.9*	4.3*		4.5	VI *	KRK
1965	03	26	20	29		36.8	30.9	110	5.1*	4.8*		5.0	VII *	KRK
1965	05	16	11	29	42	38.2	38.9	28	4.9	4.5*		4.8*	VII *	PDE
1965	06	13	20	01		37.8	29.3	21	5.4*	5.6*		5.7	VII	KRK
1965	06	17	02	58		37.8	29.4	30	5.0*	4.5*		4.7	VII *	KRK
1965	07	12	09	51		37.6	29.4	35	4.9*	4.3*		4.5	VI *	KRK
1965	07	13	14	19		37.5	27.8	30	4.9*	4.3*		4.5	VI *	KRK
1965	08	23	14	08		40.5	26.2	40	5.4*	5.5*		5.6	VI	KRK
1965	08	23	23	43	52	40.2	26.2		4.9*	4.3*	4.5	4.8*	VII *	ANK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1965	08	24	23	57	35	40.4	26.2	18	5.0*	4.5*	4.7	4.9*	VII *	ANK
1965	08	31	07	29	46	39.3	40.8	10	5.1	4.8*		5.0*	VII *	PDE
1965	09	19	14	03		38.9	28.0	9	4.8*	4.1*		4.3	VI	KRK
1965	10	04	01	50		37.9	29.2	8	4.8*	4.0*		4.2	VI	KRK
1965	10	17	11	23	08	38.4	38.4	39	4.7	4.2*		4.7*	VII *	PDE
1965	10	18	14	32		38.8	27.8	36	4.9*	4.3*		4.5	VI *	KRK
1965	11	25	02	06	29	37.4	36.6	25	4.8	4.3*		4.8*	VII *	PDE
1965	12	02	06	45		37.6	29.3	35	5.0*	4.5*		4.7	VII *	KRK
1965	12	08	11	22	05	37.3	28.5		5.0*	4.5*	4.7	4.9*	VII *	ANK
1965	12	22	08	43	44	37.1	28.1		5.0*	4.5*	4.7	4.9*	VII *	ANK
1966	01	22	00	23		37.6	30.0	28	5.0*	4.6*		4.8	VII *	KRK
1966	**03**	**07**	**01**	**16**		**39.1**	**41.6**	**38**	**5.6***	**6.0**		**5.4***	**VII ***	
1966	03	25	23	17		39.0	29.3	43	5.0*	4.5*		4.7	VII *	KRK
1966	03	29	02	36	37	38.0	28.8		5.1*	4.7*	4.9	4.9*	VII *	ANK
1966	03	29	18	41	41	37.0	29.6		5.1*	4.8*	5.0	5.0*	VII *	ANK
1966	04	01	13	15		38.7	28.5	38	5.0*	4.5*		4.7	IV	KRK
1966	04	27	19	48	52	38.2	42.5	40	5.0	4.6*		4.9*	VII *	PDE
1966	05	02	13	55	03	38.0	42.6	52	4.7	4.2*		4.7*	VII *	PDE
1966	05	02	23	12	24	38.0	42.5	51	4.8	4.3*		4.8*	VII *	PDE
1966	05	04	21	49		37.8	27.7	14	5.2*	5.0*		5.2	VII	KRK
1966	05	04	21	52	29	37.8	27.9		4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	05	07	13	08		37.8	27.8	14	5.3*	5.2*		5.4	VII	KRK
1966	05	09	03	51		37.0	31.0	132	5.1*	4.7*		4.9	VII *	KRK
1966	05	09	04	34	44	38.3	42.3	33	5.0*	4.5*	4.7	4.9*	VII *	ANK
1966	05	22	07	37		38.7	27.9	23	5.2*	4.9*		5.1	VII *	KRK
1966	06	02	22	51		38.8	27.0	30	4.9*	4.3*		4.5	VI *	KRK
1966	06	10	09	13	15	36.8	29.3		4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	06	13	04	59	24	38.3	28.5		5.0*	4.5*	4.7	4.9*	VII *	ANK
1966	06	14	02	45	57	38.1	42.9	42	4.6	4.0*		4.6*	VI *	PDE
1966	06	19	17	55		38.6	27.4	19	5.0*	4.5*		4.7	VI	KRK
1966	06	28	17	01	04	39.0	27.0	49	4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	**07**	**12**	**00**	**04**		**39.2**	**41.6**	**33**	**5.0***	**4.5**		**4.9***	**VII ***	
1966	07	19	02	52	33	38.3	27.1		4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	08	16	21	01	47	37.2	28.8	48	4.6	4.0*		4.6*	VI *	PDE
1966	**08**	**19**	**12**	**22**		**39.2**	**41.6**	**33**	**6.1***	**7.1**		**5.7***	**VIII***	
1966	08	19	13	15	12	39.4	41.3	52	5.0	4.6*		4.9*	VII *	PDE
1966	08	19	13	54	25	39.0	41.8	29	5.3	5.1*		5.1*	VII *	PDE
1966	08	19	14	03	58	39.2	41.3	33	4.7	4.2*		4.7*	VII *	PDE
1966	08	19	14	17	57	39.3	41.3	44	5.0	4.6*		4.9*	VII *	PDE
1966	08	19	18	41	16	39.2	41.5	34	4.8	4.3*		4.8*	VII *	PDE
1966	08	19	21	38	56	38.4	41.2	172	4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	08	20	02	13	27	39.5	41.3	33	4.9	4.5*		4.8*	VII *	PDE
1966	08	20	04	45	22	38.6	41.3	33	4.8	4.3*		4.8*	VII *	PDE
1966	08	20	11	59	09	39.4	40.9	12	5.3	5.1*		5.1*	VII *	PDE
1966	08	20	12	01	43	39.1	40.7	33	5.5	5.4*		5.3*	VII *	PDE
1966	08	20	15	17	35	39.3	40.5	40	4.6	4.0*		4.6*	VI *	PDE
1966	08	21	00	15	03	39.0	41.9	37	4.7	4.2*		4.7*	VII *	PDE
1966	08	21	01	30		40.3	27.4	25	5.1*	4.7*		4.9	VI	KRK
1966	08	21	02	25	07	39.1	41.7	33	4.9	4.5*		4.8*	VII *	PDE
1966	08	21	22	36	36	39.2	41.5	33	4.8	4.3*		4.8*	VII *	PDE
1966	08	22	20	36	10	39.3	41.5	30	4.7	4.2*		4.7*	VII *	PDE
1966	08	23	01	35	45	39.4	41.0	38	4.6	4.0*		4.6*	VI *	PDE
1966	09	19	02	03	39	38.5	42.7	34	4.9	4.5*		4.8*	VII *	PDE
1966	09	25	03	10		37.8	30.0	44	5.2*	4.9*		5.1	VII *	KRK
1966	11	03	13	17		39.0	31.1		4.9*	4.4*		4.6	VI *	KRK
1966	12	07	11	01	12	40.1	35.7	5	4.7	4.2*		4.7*	VII *	PDE
1966	12	10	17	08	32	41.1	33.5	13	4.9	4.5*		4.8*	VII *	PDE
1966	12	26	04	21	01	38.8	40.9	30	4.8	4.3*		4.8*	VII *	PDE
1966	12	29	07	41		36.1	30.7	60	4.9*	4.3*		4.5	VI *	KRK
1967	01	29	19	47	52	39.0	27.6		4.9*	4.3*	4.5	4.8*	VII *	ANK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1967	01	30	01	26	56	38.9	27.5		4.9*	4.3*	4.5	4.8*	VII *	ANK
1967	01	30	12	25	02	39.6	41.4	50	4.7	4.2*	5.5 UPP	4.7*	VII *	PDE
1967	02	14	07	22	24	38.8	27.7		5.0*	4.5*	4.7	4.9*	VII *	ANK
1967	04	04	03	47		40.3	26.2	35	4.9*	4.3*		4.5	VI *	KRK
1967	04	07	17	07	15	37.3	36.1	40	4.9	4.5*		4.8*	VII ●	PDE
1967	04	07	18	33	31	37.3	36.2	33	5.0	4.6*	5.1 UPP	4.9*	VII *	PDE
1967	05	09	04	05		39.6	27.2	30	4.8*	4.2*		4.4	VI	KRK
1967	05	22	19	46		36.6	29.4	54	4.9*	4.4*		4.6	VI *	KRK
1967	05	29	19	19	23	40.2	38.5	31	4.8	4.3*		4.8*	VII *	PDE
1967	06	01	10	39		36.8	29.3	40	5.1*	4.8*		5.0	V	KRK
1967	06	13	12	54		39.3	31.0		4.9*	4.3*		4.5	VI *	KRK
1967	06	18	05	28		36.8	29.3	38	5.0*	4.6*		4.8	VII *	KRK
1967	06	22	12	18	53	40.9	33.4	13	4.7	4.2*		4.7*	VII *	PDE
1967	06	23	10	06	54	40.8	33.6	14	4.8	4.3*		4.8*	VII *	PDE
1967	06	30	04	24		37.8	30.5	8	4.8*	4.0*		4.2	VI	KRK
1967	07	19	09	06		38.1	28.9	24	5.0*	4.6*		4.8	VI	KRK
1967	**07**	**22**	**16**	**56**		**40.7**	**30.7**	**33**	**5.9***	**6.8**		**5.6***	**VII ●**	
1967	07	22	17	14	10	40.7	30.8	6	4.9*	4.4*	4.6	4.8*	VII *	ANK
1967	07	22	17	30		40.7	30.5	10	5.0*	4.6*		4.8	VII *	KRK
1967	07	22	17	48		40.7	30.6	26	5.1*	4.8*		5.0	VII *	KRK
1967	07	22	18	07	21	41.0	30.0		5.0*	4.5*	4.7	4.9*	VII *	ANK
1967	07	22	18	09		40.7	30.5	35	5.1*	4.8*		5.0	VII *	KRK
1967	07	22	18	13	36	40.7	30.8		4.9*	4.3*	4.5	4.8*	VII *	ANK
1967	07	22	19	47		41.1	30.6	45	4.9*	4.4*		4.6	VI *	KRK
1967	07	22	20	35		40.8	30.4	8	5.0*	4.5*		4.7	VII *	KRK
1967	07	22	21	21		41.0	30.4	36	4.9*	4.4*		4.6	VI *	KRK
1967	07	22	23	42		40.6	30.5	30	5.0*	4.5*		4.7	VII *	KRK
1967	07	23	04	03		40.6	30.4	21	4.9*	4.3*		4.5	VI *	KRK
1967	07	23	04	48		40.6	30.4	33	5.0*	4.5*		4.7	VII *	KRK
1967	07	25	12	39	28	37.9	28.7	101	4.9*	4.3*	4.5	4.8*	VII *	ANK
1967	**07**	**26**	**18**	**53**		**39.5**	**40.4**	**33**	**5.7***	**6.2**		**5.4***	**VII ●**	
1967	07	30	01	19		40.7	30.6	27	4.9*	4.4*		4.6	VI *	KRK
1967	07	30	01	31		40.7	30.5	11	5.3*	5.2*		5.4	IX	KRK
1967	07	30	18	58		40.8	30.5	27	4.9*	4.3*		4.5	VI *	KRK
1967	08	01	00	13		40.7	30.5	28	4.9*	4.4*		4.6	VI *	KRK
1967	08	09	00	33		37.0	28.4	55	4.9*	4.3*		4.5	VI *	KRK
1967	08	14	20	09		40.7	30.4	27	4.9*	4.4*		4.6	VI *	KRK
1967	08	26	14	18		37.6	30.4	42	4.9*	4.3*		4.5	VI *	KRK
1967	09	05	08	31	02	36.7	29.3	24	4.9*	4.4*	4.6	4.8*	VII *	ANK
1967	10	20	06	47	38	37.9	37.7	33	4.8	4.3*		4.8*	VII *	PDE
1967	10	26	04	55		37.2	29.0	42	5.1*	4.7*		4.9	VII *	KRK
1967	11	13	06	50		37.8	28.8	38	4.9*	4.3*		4.5	VI *	KRK
1968	02	19	23	17	07	38.7	27.9		4.9*	4.3*	4.5	4.8*	VII *	ANK
1968	02	29	11	46		39.5	26.0	5	4.9*	4.3*		4.5	VI *	KRK
1968	03	18	05	40		40.8	30.5	39	4.9*	4.3*	4.5	4.8*	VII *	ANK
1968	03	28	17	12	17	40.1	31.4	7	4.6	4.0*		4.6*	VI *	PDE
1968	05	25	00	29	26	40.8	42.0	9	4.6	4.0*		4.6*	VI *	PDE
1968	06	11	06	09	28	38.6	43.1	33	4.7	4.2*		4.7*	VII *	PDE
1968	07	12	13	42	41	39.1	41.5	39	4.9*	4.4*	4.6	4.8*	VII *	ANK
1968	09	03	08	19	52	41.8	32.3	5	5.7	6.6		5.4*	IX	PDE
1968	09	03	09	13	12	41.6	32.3	33	4.6	4.0*		4.6*	VI *	PDE
1968	09	03	14	09	10	41.7	32.4	14	4.6	4.0*		4.6*	VI *	PDE
1968	09	18	06	17	05	39.8	40.2	37	4.6	4.0*		4.6*	VI *	PDE
1968	**09**	**24**	**04**	**19**		**39.2**	**40.1**	**14**	**5.2***	**5.1**		**5.1***	**VII ●**	
1968	09	25	20	52	16	39.2	40.2	47	5.1	4.8*		5.0*	VII *	PDE
1968	09	26	06	42	01	38.6	33.0	34	4.8	4.3*		4.8*	VII *	PDE
1968	09	28	00	53	28	40.5	26.4	28	5.0*	4.5*	4.7	4.9*	VII *	ANK
1968	10	06	22	07	11	38.8	32.6	39	4.8	4.3*		4.8*	VII *	PDE
1968	10	10	05	16	26	36.5	29.2		5.0*	4.5*	4.7	4.9*	VII *	ANK
1968	10	30	16	51	34	37.9	38.6	3	4.9	4.5*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1968	11	03	18	40		38.6	28.9	25	5.1*	4.8*		5.0	VI	KRK
1968	11	03	18	44	02	38.6	29.7	12	4.6	4.0*		4.6*	VI *	PDE
1969	01	10	16	33	15	41.6	32.6	18	4.6	4.0*		4.6*	VI *	PDE
1969	01	14	23	12		36.1	29.3	25	5.7*	6.1*		6.2	VIII*	KRK
1969	03	03	00	59		40.1	27.5	7	5.4*	5.5*		5.6	IX	KRK
1969	03	04	01	47		37.0	31.1		5.0*	4.6*		4.8	VII *	KRK
1969	03	05	14	41		40.1	27.6	5	5.0*	4.5*		4.7	VII *	KRK
1969	03	22	18			39.1	28.7	8	5.0*	4.5*		4.7	VI	KRK
1969	03	23	21	08		39.2	28.5	14	5.5*	5.8*		5.9	IX	KRK
1969	03	24	01	59		39.1	28.5	15	5.1*	4.8*		5.0	VII *	KRK
1969	03	24	02	58		39.2	28.6	5	4.9*	4.3*		4.5	VI *	KRK
1969	03	24	08	13		39.0	28.4	10	5.0*	4.5*		4.7	VII *	KRK
1969	03	24	11	34		39.2	28.7	20	4.9*	4.4*		4.6	VI *	KRK
1969	03	24	12	13		39.1	28.7	17	4.9*	4.3*		4.5	VI *	KRK
1969	03	25	13	21		39.2	28.4	30	5.6*	5.9*		6.0	VII	KRK
1969	03	25	13	28		38.8	28.5	35	5.0*	4.6*		4.8	VI	KRK
1969	03	25	14	18		39.2	28.5	30	5.0*	4.6*		4.8	VII *	KRK
1969	03	25	14	40	20	38.5	29.3	25	4.7	4.2*		4.7*	VII *	PDE
1969	03	25	16	13		39.1	28.4	30	5.0*	4.5*		4.7	VII *	KRK
1969	03	26	03	31		39.0	28.3	30	4.9*	4.4*		4.6	VI *	KRK
1969	03	27	18	07		39.1	28.2	40	4.9*	4.3*		4.5	VI *	KRK
1969	**03**	**28**	**01**	**48**		**38.6**	**28.4**	**9**	**5.6***	**5.9**		**5.3***	**VII ●**	
1969	03	28	05	40		38.1	29.0	10	4.9*	4.3*		4.5	VI *	KRK
1969	03	28	10	02		39.1	28.4	35	5.1*	4.7*		4.9	VII *	KRK
1969	04	27	10	58		38.5	28.2	25	5.0*	4.5*		4.7	VII ●	KRK
1969	04	30	20	20		39.1	28.5	8	5.2*	5.0*		5.2	VII *	KRK
1969	05	03	16	07	58	39.1	28.5	32	4.7	4.2*		4.7*	VII *	PDE
1969	05	13	17	48		39.0	28.6	36	4.9*	4.4*		4.6	VI *	KRK
1969	05	14	23	57		39.2	28.5	37	4.9*	4.4*		4.6	VI *	KRK
1969	05	15	13	08	11	37.6	35.3	41	4.7	4.2*		4.7*	VII *	PDE
1969	05	19	18	14	24	37.8	35.1	34	4.6	4.0*		4.6*	VI *	PDE
1969	08	14	21	51		39.5	27.9	22	5.0*	4.5*		4.7	VI	KRK
1969	09	10	12	14	00	39.2	41.4	50	5.2	5.0*		5.0*	VII *	PDE
1969	10	01	20	33	39	39.2	40.5	39	4.8	4.3*		4.8*	VII *	PDE
1969	10	07	05	09		39.2	28.4	13	5.1*	4.7*		4.9	VII *	KRK
1969	10	07	18	49		39.2	28.5	45	5.1*	4.7*		4.9	VII *	KRK
1969	11	15	02	54		37.8	29.9	6	5.0*	4.5*		4.7	VII *	KRK
1969	12	24	08	41	32	40.5	28.4		4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	12	25	02	07	12	39.0	42.6	65	4.9	4.5*		4.8*	VII *	PDE
1970	02	17	02	59	55	38.6	43.2	35	4.9	4.5*		4.8*	VII *	PDE
1970	02	17	16	16	48	38.6	43.1	9	4.7	4.2*		4.7*	VII *	PDE
1970	**03**	**28**	**21**	**02**		**39.2**	**29.5**	**20**	**6.1***	**7.2**		**5.7***	**VIII***	
1970	03	28	21	13	24	39.3	30.7		4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	03	28	21	23	28	38.1	29.2	33	5.0*	4.6*	4.8	4.9*	VII *	ANK
1970	03	28	21	33	11	37.6	30.4		4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	03	28	21	41		39.1	29.5	30	4.9*	4.3*		4.5	VI *	KRK
1970	03	28	21	59		39.3	29.5	15	5.0*	4.6*		4.8	VII *	KRK
1970	03	28	22	05	28	38.8	29.8	7	4.6	4.0*		4.6*	VI *	PDE
1970	03	28	23	11		39.2	29.6	33	5.1*	4.8*		5.0	VII *	KRK
1970	03	28	23	44		39.1	29.8	28	5.1*	4.8*		5.0	VII *	KRK
1970	03	29	02	05		39.3	29.2	33	4.9*	4.3*		4.5	VI *	KRK
1970	03	29	02	37	11	39.0	30.4	33	4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	03	29	06	56		39.1	29.7	24	5.2*	5.0*		5.2	VII *	KRK
1970	03	29	14	37		38.7	27.8	40	4.9*	4.3*		4.5	VI *	KRK
1970	03	29	14	40		38.7	28.0	45	4.9*	4.3*		4.5	VI *	KRK
1970	03	29	19	11		39.1	29.4	16	4.9*	4.4*		4.6	VI *	KRK
1970	03	29	22	12	43	39.2	29.2		4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	03	30	06	46		39.1	29.0	20	4.9*	4.3*		4.5	VI *	KRK
1970	03	30	06	49		39.4	29.4	30	5.0*	4.6*		4.8	VII *	KRK
1970	03	30	07	59		39.3	29.3	16	5.3*	5.1*		5.3	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1970	03	30	08	35		39.3	29.2	33	5.0*	4.5*		4.7	VII *	KRK
1970	03	30	16	32		39.1	29.6	20	5.2*	5.0*		5.2	VII *	KRK
1970	03	30	20	38		39.0	29.6	20	4.9*	4.3*		4.5	VI *	KRK
1970	03	30	20	59		39.3	29.3	30	4.9*	4.4*		4.6	VI *	KRK
1970	03	31	00	51		39.3	29.4	16	4.9*	4.4*		4.6	VI *	KRK
1970	03	31	03	38	15	39.1	30.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	03	31	03	46		39.0	29.8	27	5.0*	4.5*		4.7	VII *	KRK
1970	03	31	04	10	05	39.0	29.2	9	4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	03	31	08	30	44	39.0	28.9	15	4.8	4.3*		4.8*	VII *	PDE
1970	03	31	11	58		38.9	29.7	36	4.9*	4.4*		4.6	VI *	KRK
1970	04	01	15	56		39.4	29.5	16	5.0*	4.6*		4.8	VII *	KRK
1970	04	02	20	35		39.1	29.8	20	4.9*	4.4*		4.6	VI *	KRK
1970	04	04	03	52	26	39.7	30.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	04	04	12	06	47	38.9	30.3		4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	04	04	16	48		38.9	29.9	33	4.9*	4.4*		4.6	VI *	KRK
1970	04	05	05	47		38.9	29.9	27	4.9*	4.4*		4.6	VI *	KRK
1970	04	07	04	12	33	39.3	29.1	33	4.7	4.2*		4.7*	VII *	PDE
1970	04	07	17	05		39.3	29.2	30	5.2*	5.0*		5.2	VII *	KRK
1970	04	07	22	58		39.0	30.1	30	4.9*	4.3*		4.5	VI *	KRK
1970	04	09	10	12		39.2	29.5	30	5.0*	4.6*		4.8	VII *	KRK
1970	04	11	17	24	25	39.1	29.8	22	4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	04	13	05	15		39.3	29.1	8	4.9*	4.3*		4.5	VI *	KRK
1970	04	15	16	29		39.3	29.3	18	4.9*	4.4*		4.6	VI *	KRK
1970	04	16	10	42		39.0	29.9	9	5.3*	5.2*		5.4	VII *	KRK
1970	04	16	11	43		39.0	30.0	20	5.0*	4.5*		4.7	VII *	KRK
1970	04	18	12	31		38.8	29.7	42	4.9*	4.4*		4.6	VI *	KRK
1970	04	19	13	29		39.0	29.9	20	5.5*	5.7*		5.8	VIII*	KRK
1970	04	19	13	47		39.0	29.8	24	5.5*	5.7*		5.8	IX	KRK
1970	04	20	02	23		39.0	30.1	35	4.9*	4.3*		4.5	VI *	KRK
1970	04	21	07	36		39.1	29.9	25	4.9*	4.3*		4.5	VI *	KRK
1970	04	21	14	51	53	39.2	41.4	28	4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	04	22	05	24		39.1	29.8	30	5.1*	4.8*		5.0	VII *	KRK
1970	04	22	18	38		39.2	29.4	40	4.9*	4.4*		4.6	VI *	KRK
1970	04	23	07	18		39.0	30.0	15	5.0*	4.5*		4.7	VII *	KRK
1970	04	23	09	01		39.2	28.8	16	5.4*	5.5*		5.6	IX	KRK
1970	04	24	00	40	02	39.1	29.9	38	4.8	4.3*		4.8*	VII *	PDE
1970	04	24	04	40		39.0	29.8	34	5.0*	4.6*		4.8	VII *	KRK
1970	04	26	23	15		38.9	29.9	21	4.9*	4.3*		4.5	VI *	KRK
1970	04	27	01	54	11	39.0	30.1	25	4.6	4.0*		4.6*	VI *	PDE
1970	04	27	09	35		39.0	29.6	33	5.0*	4.6*		4.8	VII *	KRK
1970	04	27	22	24		39.0	29.5	30	5.0*	4.6*		4.8	VII *	KRK
1970	04	30	14	58		39.3	29.3	25	4.9*	4.4*		4.6	VI *	KRK
1970	04	30	16	44		39.3	29.1	30	5.0*	4.6*		4.8	VII *	KRK
1970	04	30	23	59		39.1	29.6	30	4.9*	4.3*		4.5	VI *	KRK
1970	05	08	02	49	16	38.9	29.9	30	4.7	4.2*		4.7*	VII *	PDE
1970	05	26	05	51	51	38.9	29.4	59	4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	05	28	02	52		39.0	30.0	35	4.9*	4.4*		4.6	VI *	KRK
1970	06	20	06	04		39.0	29.9	26	5.0*	4.5*		4.7	VII *	KRK
1970	07	02	02	24	36	38.8	36.7	27	4.8	4.3*		4.8*	VII *	PDE
1970	07	10	13	29	57	40.9	35.6	17	4.6	4.0*		4.6*	VI *	PDE
1970	08	07	04	53	22	39.0	30.1	32	4.6	4.0*		4.6*	VI *	PDE
1970	09	03	05	32	10	39.6	38.7	23	5.1	5.3		5.0*	VII *	PDE
1970	09	14	07	10	13	39.2	29.3	37	5.0*	4.5*	4.7	4.9*	VII *	ANK
1970	09	21	19	08	02	38.8	30.0	27	4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	10	13	00	53	37	38.3	37.0	34	4.9*	4.4*	4.6	4.8*	VII *	ANK
1970	10	19	01	32	28	37.0	29.0	33	4.6	4.0*		4.6*	VI *	PDE
1970	12	01	11	57	29	39.9	38.8	21	4.7	4.2*		4.7*	VII *	PDE
1970	12	17	02	17	05	39.3	29.4	26	4.9*	4.3*	4.5	4.8*	VII *	ANK
1970	12	20	11	01		39.3	29.2	25	5.3*	5.4*		5.5	VII	KRK
1970	12	28	03	42		37.0	29.0	15	4.9*	4.3*		4.5	VI *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1970	12	30	18	54		37.1	28.9	5	5.1*	4.8*		5.0	VII *	KRK
1971	01	02	03	25	36	37.1	29.0		5.1*	4.7*	4.9	4.9*	VII *	ANK
1971	01	31	05	37	31	37.2	30.6	37	4.6	4.0*		4.6*	VI *	PDE
1971	02	15	08	19	56	39.2	29.4	28	4.9	4.5*		5.3 ATH	VII *	PDE
1971	02	20	07	15	20	37.8	29.5	19	4.6	4.0*		4.8 ATH	VII *	PDE
1971	02	22	14	27	45	37.2	30.3	45	5.0	4.6*		4.8 ATH	VII *	PDE
1971	02	23	19	41	23	39.6	27.4	15	5.0	5.4		5.7 ATH	VIII*	PDE
1971	02	26	11	54	42	37.5	29.8	33	4.8	4.3*		4.8*	VII *	PDE
1971	03	08	22	44	47	37.5	29.7	21	4.7	4.2*		4.7*	VII *	PDE
1971	04	10	13	21	55	38.9	29.1	28	4.7	4.2*		4.7*	VII *	PDE
1971	04	13	12	52	35	39.0	29.9	13	5.1	4.8*		5.0*	VII *	PDE
1971	04	17	16	37	38	41.0	37.0	33	4.8	4.3*		4.8*	VII *	PDE
1971	04	27	17	20	01	39.0	29.1	41	4.6	4.0*		4.6*	VI *	PDE
1971	04	28	17	20	01	39.0	29.1		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	05	01	13	45	26	40.9	27.8	13	4.6	4.0*		4.9 ATH	VII *	PDE
1971	05	06	04	24	34	39.0	29.7	23	4.6	4.0*		4.6 ATH	VI *	PDE
1971	05	12	06	25	13	37.6	29.8	23	5.5	5.9	6.3 PAS	5.3*	VII *	PDE
1971	05	12	10	10	37	37.5	29.7	33	5.5	5.4*		5.3*	VII *	PDE
1971	05	12	12	57	25	37.6	29.6	33	5.4	5.2		5.2*	VII *	PDE
1971	05	12	17	12	25	37.6	30.0	28	4.7	4.2*		4.7*	VII *	PDE
1971	05	12	20	13	05	37.6	39.2		5.0*	4.5*	4.7	4.9*	VII *	ANK
1971	05	12	20	13	08	37.5	29.9	36	4.8	4.3*		4.8*	VII *	PDE
1971	05	13	04	45	28	37.5	29.7	14	4.8	4.3*		4.8*	VII *	PDE
1971	05	13	08	14	33	37.6	30.1	14	4.6	4.0*		4.6*	VI *	PDE
1971	05	13	11	04	14	37.5	29.8		4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	05	13	13	28	40	37.6	29.9	33	4.7	4.2*		4.7*	VII *	PDE
1971	05	13	23	32	56	37.5	29.9		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	05	14	22	51	11	37.4	29.5	33	4.7	4.2*		4.7*	VII *	PDE
1971	05	15	07	36	37	37.6	30.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	05	15	14	34	12	37.5	29.8		4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	05	15	21	30		37.6	29.9		4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	05	15	21	47	36	37.6	29.9		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	05	16	05	27	51	37.6	30.1	33	4.6	4.0*		4.6*	VI *	PDE
1971	05	16	09	25	01	37.6	29.7	33	4.9	5.0		4.8*	VII *	PDE
1971	05	16	11	20	18	37.5	29.9		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	05	16	23	28	01	37.6	30.0		5.0*	4.5*	4.7	4.9*	VII *	ANK
1971	05	17	14	16	18	37.7	29.9	33	4.8	4.3*		4.8*	VII *	PDE
1971	05	20	03	06	45	37.6	30.0	33	4.8	4.3*		4.8*	VII *	PDE
1971	05	21	09	41	12	37.5	29.7	7	4.9	4.5*		4.8*	VII *	PDE
1971	**05**	**22**	**16**	**43**		**38.8**	**40.5**	**3**	**6.0***	**7.0**		**5.7***	**VIII***	
1971	05	22	17	34	15	38.8	40.6	13	4.8	4.3*		4.8*	VII *	PDE
1971	05	22	18	35	31	39.0	40.7	33	4.7	4.2*		4.7*	VII *	PDE
1971	05	23	20	11	22	37.5	29.9	33	4.7	4.2*		4.7*	VII *	PDE
1971	05	24	02	20	14	38.8	40.5	33	4.7	4.2*		4.7*	VII *	PDE
1971	05	25	05	43	27	39.0	29.7	24	5.8	5.5		5.6 ATH	VII *	PDE
1971	05	25	06	18	45	38.9	29.7		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	05	30	10	50	11	37.5	29.8		4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	06	04	15	06	12	37.6	29.8	27	4.6	4.0*		4.6*	VI *	PDE
1971	06	08	16	59	25	37.5	29.8	10	4.7	4.2*		4.7*	VII *	PDE
1971	06	08	23	42	55	37.6	29.7	28	4.8	4.3*		4.8*	VII *	PDE
1971	06	10	09	31	55	39.1	29.6	33	4.9	4.5*		4.8 ATH	VII *	PDE
1971	06	15	22	55	46	37.1	29.0	33	4.6	4.0*		4.6*	VI *	PDE
1971	06	19	00	27	16	37.1	29.4	33	4.7	4.2*		3.8 ATH	VI *	PDE
1971	06	28	23	37	40	37.5	29.8	7	4.9	4.5*		4.9 ATH	VII *	PDE
1971	06	29	04	26	31	37.5	29.9	28	4.9	4.5*		4.8*	VII *	PDE
1971	06	29	09	08	12	37.1	36.8	35	5.0	5.5		4.9*	VII *	PDE
1971	06	29	11	13	42	37.3	36.9	31	4.6	4.0*		4.6*	VI *	PDE
1971	07	11	20	12	55	37.2	36.8	9	5.2	5.8		5.0*	VII *	PDE
1971	07	15	06	15	31	37.2	36.8	33	4.6	4.0*		4.6*	VI *	PDE
1971	08	09	04	40	47	37.5	29.8	11	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1971	08	17	04	29	33	37.1	36.8	33	5.0	4.6*		4.9*	VII *	PDE
1971	08	25	09	06	40	38.4	40.8		5.1*	4.7*	4.9	4.9*	VII *	ANK
1971	09	08	17	01	09	37.3	30.3	6	4.8	4.3*		4.8*	VII *	PDE
1971	09	09	15	10	03	37.3	30.2	23	5.3	5.1*		5.1*	VII *	PDE
1971	09	21	16	48	52	37.3	30.2	37	4.8	4.3*		4.6 ATH	VI *	PDE
1971	09	28	05	10	25	37.1	30.1	36	4.7	4.2*		4.7*	VII *	PDE
1971	10	03	07	44	27	38.9	29.9	23	4.7	4.2*		4.7*	VII *	PDE
1971	10	06	01	46	38	38.3	30.2	19	4.6	4.0*		4.6*	VI *	PDE
1971	10	21	07	11	37	38.0	30.4	33	4.6	4.0*		4.2 IST	VI *	PDE
1971	11	06	19	43	47	39.0	29.7	14	5.0	4.6*		4.9*	VII *	PDE
1972	03	14	14	05	46	39.3	29.4	33	5.4	4.9		5.2*	VII *	PDE
1972	03	22	00	51	52	40.3	42.1	34	4.8	4.3*		4.8*	VII *	PDE
1972	03	31	08	16	29	37.0	31.0		4.9*	4.4*	4.6	4.8*	VII *	ANK
1972	04	09	17	20	24	39.5	26.4		4.9*	4.4*	4.6	4.8*	VII *	ANK
1972	04	26	06	30	24	39.5	26.3	26	5.0	4.6*		4.9*	VII *	PDE
1972	04	26	15	59	45	39.5	26.3	28	4.8	4.3*		4.8*	VII *	PDE
1972	05	09	17	40	25	39.6	26.3	37	4.7	4.2*		4.7*	VII *	PDE
1972	05	28	03	14	36	38.9	30.0	33	4.7	4.2*		4.7*	VII *	PDE
1972	07	16	02	46	51	38.3	43.3	40	4.9	4.5*		4.8*	VII *	PDE
1972	09	03	08	38	43	39.2	28.1	16	4.6	4.0*		4.7 ATH	VII *	PDE
1972	10	04	06	14	25	39.1	29.4		4.9*	4.4*	4.6	4.8*	VII *	ANK
1973	04	27	00	31	03	38.7	33.0	33	4.6	4.0*		4.6*	VI *	PDE
1973	07	28	18	55	11	36.1	31.4		4.9*	4.3*	4.5	4.8*	VII •	ANK
1973	08	30	07	36	24	38.0	42.7	33	4.8	4.7		4.8*	VII *	PDE
1973	09	10	03	02	04	38.5	39.6	33	4.9	4.5*		4.8*	VII *	PDE
1973	11	05	20	11	58	37.9	42.8	47	4.7	4.2*		4.7*	VII *	PDE
1974	02	01	00	01	02	38.6	27.0	29	5.2	5.0*		5.4 ATH	VII *	PDE
1974	02	05	18	23	23	37.3	29.7		4.9*	4.3*	4.5	4.8*	VII *	ANK
1974	02	10	04	12	00	37.3	29.6	33	4.6	4.0*		4.6*	VI *	PDE
1974	12	24	10	27	43	37.5	29.8	25	4.6	4.0*		4.6*	VI *	PDE
1975	01	12	04	39	45	40.4	41.7	40	5.0	4.6*		4.9*	VII *	PDE
1975	03	17	02	06	38	40.4	26.0	2	4.6	4.0*		4.2 ATH	VI *	PDE
1975	03	17	05	11	12	40.4	26.0		5.1*	4.8*	5.0	5.0*	VII *	ANK
1975	03	17	05	17	47	40.5	26.2	5	4.8	5.5		4.9 ATH	VII *	PDE
1975	03	17	05	35	15	40.5	26.1	5	5.2	5.9		5.1 ATH	VII *	PDE
1975	03	27	05	15	06	40.4	26.1	5	5.7	6.7		5.5 ISK	VII *	PDE
1975	03	27	06	15	46	40.4	26.2	33	4.8	4.3*		4.8*	VI	PDE
1975	03	27	19	42	42	40.4	26.0		4.9*	4.4*	4.6	4.8*	VII *	ANK
1975	03	29	02	06	05	40.4	26.0	33	5.3	5.1*		5.1*	VII *	PDE
1975	04	30	04	28	57	36.2	30.8	56	5.6	5.6*		5.3*	VII *	PDE
1975	06	15	21	59	25	40.9	36.1		4.9*	4.4*	4.6	4.8*	VII *	ANK
1975	07	12	22	11	31	38.8	43.4		4.9*	4.3*	4.5	3.9	VI *	SSR
1975	07	15	21	59	25	40.9	36.1	8	4.6	4.0*		4.6*	VI *	PDE
1975	07	30	16	25	20	39.5	32.1	20	4.6	4.0*		4.6*	VI	PDE
1975	**09**	**06**	**09**	**20**		**38.4**	**40.7**	**26**	**5.9***	**6.7**		**5.6***	**VII •**	
1975	09	06	10	13	09	38.5	40.6	33	5.1	4.8*		5.0*	VII *	PDE
1975	09	06	10	52	15	38.4	40.8	33	5.2	5.0*		5.0*	VII *	PDE
1975	09	06	12	10	47	38.4	40.6	33	4.9	4.5*		4.8*	VII *	PDE
1975	09	12	00	41	35	39.2	40.7	33	4.6	4.0*		4.6*	VI *	PDE
1975	09	17	11	21	25	38.5	40.5	44	4.6	4.0*		4.6*	VI *	PDE
1975	09	24	15	41	16	38.6	40.5	33	4.6	4.0*		4.6*	VI *	PDE
1975	10	03	14	58	15	38.5	40.7	33	4.7	4.2*		4.7*	VII *	PDE
1975	10	26	07	05	03	40.0	35.0	33	4.6	4.0*		4.6*	VI *	PDE
1975	11	14	12	32	05	38.6	40.7	41	4.7	4.2*		4.7*	VII *	PDE
1975	12	30	14	36	04	38.5	40.5	6	4.6	4.0*		4.6*	VI *	PDE
1975	12	30	16	00	18	38.4	40.3	15	4.6	4.0*		4.6*	VI *	PDE
1976	01	12	22	41	50	38.6	43.1	36	5.0	4.6*		4.9*	VII *	PDE
1976	01	13	20	58	45	39.0	40.9	54	4.7	4.2*		4.7*	VII *	PDE
1976	**04**	**02**	**16**	**58**		**39.3**	**43.6**	**46**	**5.0***	**4.6**		**4.9***	**VII ***	
1976	**04**	**29**	**22**	**18**		**40.8**	**42.8**	**44**	**5.4***	**5.5**		**5.2***	**VII ***	

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1976	04	29	23	23	16	41.0	42.9	11	4.8	4.3*		4.8*	VII *	PDE
1976	05	08	23	25	08	39.4	29.1	36	4.8	4.3*		4.8*	VII ●	PDE
1976	05	31	05	10	25	39.5	29.2	60	4.9	4.5*		4.8*	VII *	PDE
1976	06	14	06	52	38	39.3	29.2	28	4.7	4.2*		4.7*	VII ●	PDE
1976	**07**	**09**	**09**	**34**		**38.3**	**40.4**	**33**	**4.9***	**4.2**		**4.8***	**VII ●**	
1976	07	15	12	06	59	39.4	29.1	33	4.7	4.2*		4.7*	VII *	PDE
1976	07	15	20	24	09	37.6	36.1	33	4.7	4.2*		4.7*	VII *	PDE
1976	**08**	**19**	**01**	**12**		**37.7**	**28.8**	**3**	**5.2***	**5.0**		**5.0***	**VII ●**	
1976	08	22	13	28	49	39.3	29.1	14	4.8	4.6		4.8*	VII *	PDE
1976	08	24	18	44	48	39.4	29.3	42	4.9	4.5*		4.8*	VII *	PDE
1976	09	05	22	07	35	38.3	40.9	22	5.1	4.8		5.0*	VII *	PDE
1976	10	02	10	06	01	39.5	40.0	40	4.7	4.2*		4.7*	VII *	PDE
1976	10	08	17	11	54	38.5	40.6	23	4.8	4.3*		4.8*	VII *	PDE
1976	11	24	12	30	41	39.1	43.9	33	5.0	4.6*		4.9*	VII *	PDE
1976	11	24	13	18	07	39.1	43.7	33	4.8	4.3*		4.8*	VII *	PDE
1976	11	24	15	04	04	39.2	43.7	41	4.9	4.5*		4.8*	VII *	PDE
1976	11	24	16	40	43	39.0	43.9		4.9*	4.3*	4.5	4.4	VI *	SSR
1976	12	04	04	10	33	39.3	43.6	22	4.8	4.3*		4.8*	VII *	PDE
1977	01	01	22	26	41	39.2	43.5	24	5.0	4.6*		4.9*	VII *	PDE
1977	01	02	19	37	25	39.2	43.6	34	4.9	4.5*		4.8*	VII *	PDE
1977	01	17	05	19	24	39.2	43.5	33	5.0	4.6*		4.9*	VII *	PDE
1977	01	25	23	54	18	39.4	28.1	23	4.6	4.0*		4.6*	VI *	PDE
1977	02	21	13	02	31	39.9	40.0	33	4.6	4.0*		4.6*	VI *	PDE
1977	02	24	20	47	21	38.7	27.7	43	5.0	4.6*		4.9*	VII *	PDE
1977	03	23	11	55	53	39.7	28.5	23	4.6	4.0*		4.6*	V	PDE
1977	**03**	**25**	**02**	**39**		**38.5**	**40.0**	**21**	**5.3***	**5.2**		**5.1***	**VII ●**	
1977	03	26	05	04	35	39.3	43.4	21	5.0	4.6*		4.9*	VII *	PDE
1977	04	11	16	23	02	36.9	30.7	93	4.6	4.0*		4.6*	VI *	PDE
1977	04	26	13	31	38	39.0	43.9		5.0*	4.5*	4.7	4.9*	VII *	SSR
1977	05	14	21	43	38	38.8	40.0	10	4.7	4.2*		4.7*	VII *	PDE
1977	06	01	12	54	49	36.2	31.3	67	5.7	5.8*		5.4*	VII *	PDE
1977	07	11	16	03	60	38.6	43.4		4.9*	4.3*	4.5	3.9	VI *	SSR
1977	09	15	15	19	45	39.1	43.9	33	4.7	4.2*		4.7*	VII *	PDE
1977	10	05	05	34	47	41.0	33.4	33	5.3	5.8		5.1*	VII *	PDE
1977	10	19	14	14	18	39.1	29.9	33	4.8	4.3*		4.8*	VII *	PDE
1977	10	27	22	43	33	38.0	27.9	24	4.7	4.7		4.9 ATH	VII *	PDE
1977	11	03	19	46	15	39.3	43.5	33	5.1	4.8*		5.0*	VII *	PDE
1977	12	09	15	53	37	38.3	27.2	19	4.6	4.0*		4.6*	VI *	PDE
1977	12	11	22	48	34	37.2	36.0	33	4.7	4.2*		4.7*	VII *	PDE
1977	12	16	07	37	30	38.4	27.2	34	5.3	4.2		5.1*	VII *	PDE
1978	01	07	16	48	44	40.1	42.3	33	4.7	4.2*		4.7*	VII *	PDE
1978	01	17	00	09	21	38.6	40.7	43	4.6	4.0*		4.6*	VI *	PDE
1978	02	06	14	05	59	39.6	43.7	33	4.7	4.2*		4.7*	VII *	PDE
1978	02	15	03	17	37	39.7	39.8	33	4.8	4.5		4.8*	VII *	PDE
1978	02	15	03	27	41	39.7	39.8	33	4.6	4.0*		4.6*	VI *	PDE
1978	02	24	02	51	23	37.9	32.7	10	4.6	4.0*		4.6*	VI *	PDE
1978	06	17	20	40	38	37.5	28.7	11	4.8	4.3*		4.8*	VII *	PDE
1978	07	04	22	39	15	39.5	33.2	13	4.9	4.5*		4.8*	VII *	PDE
1978	07	29	04	34	42	37.6	30.0	16	4.6	4.5		4.6 ISK	VI *	PDE
1978	08	13	17	20	12	38.7	40.7	33	4.6	4.0*		4.6*	VI *	PDE
1978	09	21	11	08	46	38.1	38.6	10	4.7	4.2*		4.7*	VII *	PDE
1978	09	21	19	37	46	37.9	38.6	10	4.6	4.0		4.6*	VI *	PDE
1978	12	04	03	12	34	38.1	37.5	10	5.1	4.6		5.0*	VII *	PDE
1978	12	06	13	09	16	40.5	35.0	10	4.7	4.2*		4.7*	VII *	PDE
1979	01	19	23	36	58	39.8	39.6	10	4.9	4.3		4.8*	VII *	PDE
1979	01	20	03	46	03	40.1	39.6	10	4.8	4.3*		4.8*	VII *	PDE
1979	04	11	12	14	26	39.1	43.9	34	5.0	4.6*		4.9*	VII *	PDE
1979	05	28	09	27	32	36.4	31.8	98	5.9	6.1*		5.6*	VII *	PDE
1979	06	28	21	22	11	40.8	31.8	10	4.6	4.0*		4.6*	VI *	PDE
1979	07	18	13	12	03	39.7	28.7	10	5.2	4.9		5.2 ATH	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1979	08	23	16	47	47	39.7	28.6	10	5.0	4.6*		4.9*	VII *	PDE
1979	09	12	16	14	51	38.7	39.8	10	5.0	4.6*		4.9*	VII *	PDE
1979	09	14	17	26	47	37.0	30.2	10	4.6	4.0*		4.6*	VI *	PDE
1979	12	28	03	09	07	37.5	35.8	41	5.1	4.5		5.0*	VII *	PDE
1979	12	31	06	21	34	36.2	31.5	79	5.3	5.1*		5.1*	VII *	PDE
1980	07	11	12	33	26	38.4	40.9	10	5.0	4.6*		4.9*	VII *	PDE
1980	10	18	03	14	10	39.9	40.3	35	5.0	4.3		4.9*	VII *	PDE
1980	10	25	05	16	24	38.1	38.8	10	4.6	4.0*		4.6*	VI *	PDE
1980	11	30	01	08	37	36.1	31.4	73	4.7	4.2*		4.7*	VII *	PDE
1980	12	16	17	13	15	38.6	28.0	10	4.6	4.0*		3.5 ATH	V *	PDE
1980	12	19	07	49	21	38.0	27.6	10	4.7	4.2*		4.7*	VII *	PDE
1981	01	20	08	27	47	38.1	38.5	10	5.1	4.5		5.0*	VII *	PDE
1981	01	29	07	24	14	36.1	30.8	59	4.6	4.0*		4.6*	VI *	PDE
1981	03	12	04	05	59	40.8	28.1	10	4.5	5.0		4.5*	VI *	PDE
1981	04	26	14	13	28	36.6	30.7	70	5.4	5.3*		5.2*	VII *	PDE
1981	09	09	07	46	14	39.9	38.0	10	4.5	4.0		4.5*	VI *	PDE
1981	11	11	10	29	20	36.2	30.4	54	5.0	4.6*		4.9*	VII *	PDE
1981	11	23	10	56	48	37.1	29.7	10	4.7	4.2*		4.7*	VII *	PDE
1981	12	26	17	53	36	40.1	28.7	10	4.6	4.0*		5.1 ATH	VII *	PDE
1982	01	01	19	30	24	37.2	42.6	10	4.7	4.2*		4.7*	VII *	PDE
1982	03	27	19	57	23	39.2	41.9	33	5.4	5.0		5.2*	VII *	PDE
1982	05	29	14	21	58	39.4	43.7	10	4.8	4.3		4.8*	VII *	PDE
1982	10	13	03	51	30	39.1	41.9	33	4.7	3.9		4.7*	VII *	PDE
1982	12	09	22	31	39	38.3	40.6	10	4.9	4.5*		4.8*	VII *	PDE
1982	12	26	17	48	02	39.3	28.3	10	4.8	4.3*		4.2 ATH	VI *	PDE
1983	01	01	23	06	19	39.2	40.2	10	4.6	4.0*		4.6*	VI *	PDE
1983	01	21	21	52	28	39.6	32.2	10	4.7	4.2*		4.7*	VII *	PDE
1983	02	01	13	54	11	40.2	29.0	10	4.8	4.3*		4.8*	VII *	PDE
1983	04	06	07	35	47	39.9	40.4	10	5.0	4.6*		4.9*	VII *	PDE
1983	04	21	16	18	53	39.3	33.1	11	4.8	4.1		4.8*	VII *	PDE
1983	**07**	**05**	**12**	**01**		**40.3**	**27.2**	**10**	**5.7***	**6.1**		**5.4***	**VII ***	
1983	10	03	11	15	05	37.2	43.7	10	4.6	4.0*		4.6*	VI *	PDE
1983	10	21	20	34	49	40.1	29.4	14	5.1	5.0		5.0*	VII *	PDE
1983	**10**	**30**	**04**	**12**		**40.2**	**42.3**	**33**	**6.0***	**6.9**		**5.6***	**VIII***	
1983	10	30	12	40	23	40.3	42.2	17	5.3	5.2		5.1*	VII *	PDE
1983	11	01	18	03	26	40.4	42.3	10	4.7	4.1		4.7*	VII *	PDE
1983	11	02	00	15	16	40.2	42.2	10	4.7	4.1		4.7*	VII *	PDE
1983	11	02	00	24	20	40.3	42.0	10	4.8	4.3*		4.8*	VII *	PDE
1983	11	18	01	15	36	39.8	39.5	27	5.0	4.8		4.9*	VII *	PDE
1983	11	18	02	07	24	39.8	39.2	33	4.7	4.2*		4.7*	VII *	PDE
1983	11	20	16	04	31	40.0	39.4	10	4.6	4.0*		4.6*	VI *	PDE
1983	11	24	00	14	07	37.1	36.1	26	4.7	4.2*		4.7*	VII *	PDE
1983	12	09	00	40	11	37.8	29.4	10	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 367 TURKEY-USSR BORDER REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1901	04	03	00	57		40.0	44.3	15	4.7*	3.9*		4.1	VI	SSR
1903	05	28				41.1	42.7		5.4*	5.6*	5.8	5.2*	VII *	ANK
1903	05	28	03	58		41.1	42.7	33	5.4*	5.5*	5.7	5.2*	VIII	KRK
1905	02	03	03			41.1	42.7	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1905	02	03	03	29		41.1	42.7	10	4.8*	4.1*		4.3	VI	SSR
1905	10	16	03			40.6	43.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1906	09	28	07	30	50	40.6	43.1	9	5.0*	4.6*		4.8	VIII	SSR
1906	10	20	16	08		41.3	43.7	33	5.3*	5.2*	5.4	5.1*	V	KRK
1910	01	25	01	54		40.2	44.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1910	03	08	02	25		40.8	44.5	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1912	10	12	19	48	57	41.4	43.7	28	5.4*	5.5*		5.6	VII	SSR
1913	04	20	03	13	36	41.2	43.9	33	5.3*	5.4*	5.6	5.2*	VI	KRK
1914	12	03	23	39	32	41.0	43.9	21	4.8*	4.0	4.6	4.3	VI	SSR
1915	04	01	05	41	42	40.5	44.5	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1916	10	28	20	48		40.1	44.1	20	5.1*	4.7*		4.9	VII	SSR
1916	11	14	13	54		40.9	44.3	33	5.1*	4.9*	5.1	5.0*	VII	KRK
1921	12	06	13	27	07	41.9	43.8	33	5.2*	5.0*	5.2	5.0*	V	KRK
1923	12	12	03	37	55	41.4	43.5	16	4.8*	4.1*		4.3	VI	SSR
1924	02	01	11	56	48	40.7	43.8	16	4.8*	4.0*		4.2	VI	SSR
1924	05	13	01	52	48	41.2	42.4	10	5.1*	4.8*	5.0	5.0*	VII *	ANK
1925	01	09	17	38	20	41.0	43.0	33	5.4*	5.6*	5.8	5.2*	VII	KRK
1925	02	08				41.1	42.7	33	5.3*	5.3*	5.5	5.1*	VII	KRK
1925	02	12	06	28	30	41.5	43.5	33	5.1*	4.9*	5.1	5.0*	VI	KRK
1925	05	13	22	51	17	41.3	43.6	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1926	10	22	16	44	05	40.7	43.7	33	5.2*	5.0*	5.2	5.0*	VIII	KRK
1926	**10**	**22**	**19**	**59**		**40.7**	**43.7**	**7**	**5.5***	**5.7**		**5.3***	**VII •**	
1926	10	27	21	20		40.6	43.8	20	4.8*	4.0*		4.2	VI	SSR
1928	03	03	07	20	54	41.4	43.4	21	4.8*	4.0*		4.2	VI	SSR
1928	05	09	20	01	30	41.9	43.1	28	4.9*	4.4*		4.6	VI	SSR
1928	11	04	17	05	09	40.7	43.8	20	4.8*	4.0*		4.2	VI	SSR
1929	03	24	16	17	50	41.1	43.8	25	4.9*	4.4*	4.6	4.4	VI	SSR
1929	04	05	17	46	34	41.3	43.1	31	4.9*	4.2	5.0	4.6	VI	SSR
1929	11	15	14	12	40	41.2	43.6	12	4.8*	4.0*		4.2	VI	SSR
1930	08	04	12	20	50	40.8	43.7	33	4.8*	4.2*	4.4	4.8*	VI	KRK
1932	03	15	07	44	34	40.2	44.9	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1932	04	12	07	00	40	40.9	44.1	33	5.0*	4.6*	4.8	4.9*	V	KRK
1932	06	27	05	20	48	41.2	43.9	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1934	11	02	16	41	59	41.0	41.6	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1935	01	25	14	38		41.1	43.7	20	5.1*	4.8*	5.0	5.0*	VI	KRK
1935	01	26	11	40	44	41.2	43.8	33	5.0*	4.6*	4.8	4.9*	IV	KRK
1937	01	07	13	23	31	40.2	44.4	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1937	01	07	20	47	42	40.1	44.3	4	4.9*	4.3*	4.5	4.8*	VII	KRK
1938	11	14	11	54	41	40.2	43.6	33	5.0*	4.6*	4.8	4.9*	V	KRK
1938	11	14	12	06	39	40.4	43.5	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1939	01	23	02	34		40.6	44.1	33	5.0*	4.5*	4.7	4.9*	V	KRK
1940	03	09	20	08	43	41.3	43.8	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1940	05	07	22	23	39	41.7	43.8	10	5.5*	5.8*	6.0	5.3*	VIII	KRK
1940	05	07	22	42	16	41.9	43.9	33	4.9*	4.4*	4.6	4.8*	IV	KRK
1940	05	11				41.5	42.7	33	5.2*	5.0*	5.2	5.0*	VII	KRK
1940	05	11	23	40		41.6	43.8	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1940	05	23	19	10		41.8	43.8	33	5.0*	4.5*	4.7	4.9*	VI	KRK
1940	07	10	13	11		41.2	43.6	10	5.2*	5.1*	5.3	5.1*	VII *	ANK
1948	05	14	17	17	21	41.1	43.7	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1949	06	03	06	53	45	40.5	44.4	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1949	07	08	21	15		40.6	43.1	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1951	01	17	00	21	30	41.3	43.7	16	4.8*	4.0*		4.2	VI	SSR
1952	04	04	11	36	20	41.2	43.9	10	4.9*	4.4*	4.6	4.8*	VII *	ANK
1952	09	29	08	56	47	41.2	44.0	10	5.0*	4.5*	4.7	4.9*	VII *	ANK
1952	10	03	11	30	18	41.3	43.6		5.1*	4.7*	4.9	4.9*	VII *	ANK
1956	08	18	06	03	36	41.1	42.5	20	4.8*	4.0*		4.2	VI	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1958	05	16	09	19	01	41.1	43.8	19	5.0*	4.5*	4.8 MOS	4.9*	VII *	ISS
1958	05	30	05	16	17	41.2	43.9	36	5.0*	4.5*	4.8 MOS	4.9*	VII *	ISS
1958	05	31	03	50	07	41.4	43.9	17	5.0*	4.5*		4.7	VII	SSR
1959	05	20	19	49	13	41.9	41.9	16	5.2*	4.9*		5.1	VIII	SSR
1959	12	08	08	45	45	41.2	43.7	13	5.0*	4.5*		4.7	VII *	SSR
1959	12	08	13	33	58	41.2	43.9	10	5.3*	5.2*		5.4	VIII	SSR
1961	12	03	18	31	56	40.9	44.1	33	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1962	09	11	00	17	47	40.5	44.6	100	5.1*	4.7*	4.9	4.9*	VII *	ANK
1963	01	16	12	02	17	41.2	42.4	20	4.9*	4.3*		4.5	VI *	SSR
1966	08	21	18	33	54	41.5	43.6	5	4.9*	4.3*	4.5	4.4	VI *	SSR
1967	01	30	01	20	25	40.8	44.1	5	5.1*	4.8*	5.0	5.0	VII *	SSR
1967	06	29	08	22	43	41.4	43.9	10	4.8*	4.2*		4.4	VII	SSR
1969	06	14	17	45	02	41.4	43.2	26	4.7	4.2*		4.7*	VII *	PDE
1970	01	03	06	54	49	41.8	43.2	68	5.1	4.8*		5.0*	VII *	PDE
1971	09	08	22	35	16	41.1	43.8	33	4.8	4.3*		4.8*	VII *	PDE
1974	03	30	00	34	58	41.4	44.0	5	4.7*	3.9		3.9	VII	SSR
1975	11	29	17	03	45	40.8	43.4	29	4.7	4.2*		4.7*	VII *	PDE
1976	**03**	**25**	**11**	**55**		**41.1**	**43.0**	**18**	**5.1***	**4.8**		**5.0***	**VII ***	
1977	09	30	16	50	37	40.1	45.0	9	4.8	4.3*		4.8*	VII *	PDE
1978	01	17	19	12	06	40.9	44.1	14	4.7	4.2*		4.7*	IV	PDE
1978	08	22	22	48	11	42.0	43.9	10	4.8	4.1		4.8*	VI	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 369 DODECANESE ISLANDS

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1903	03	25	22	30		36.0	25.0	100	5.3*	5.4*		5.5	VII *	KRK
1904	08	11	06	08		37.7	26.9	13	5.7*	6.1*		6.2	XII	KRK
1904	08	15	12	07		37.4	26.6	33	5.3*	5.2*	5.4	5.1*	VIII	KRK
1904	08	15	12	12		37.4	26.6	5	4.9*	4.3*		4.5	VII	KRK
1911	04	04	15	43	54	36.5	25.5	140	5.9*	6.8*	7.0	5.6*	VII *	BDA
1911	**04**	**04**	**15**	**49**		**36.5**	**26.5**	**140**	**6.0***	**7.0**		**5.7***	**VIII***	
1913	11	21	15	25		35.0	27.0	15	5.1*	4.8*		5.0	VII *	KRK
1914	02	01	18	34		36.0	26.0	15	5.1*	4.7*		4.9	VII *	KRK
1915	12	22	08	10		35.0	27.0	15	4.9*	4.3*		4.5	VI *	KRK
1916	07	27	03	07		36.0	25.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1916	07	27	04	34		36.0	25.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1917	06	04	01	13	36	37.0	26.0	33	5.0*	4.5*	4.7	4.9*	VI	KRK
1917	06	13	12	15	45	36.0	28.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1918	03	17	13	12	37	36.0	28.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1918	03	17	13	45	05	36.0	28.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1918	07	16	20	03	44	36.1	27.0	70	5.6*	5.9*	6.1	5.3*	VII *	ANK
1918	09	23	02	13	20	36.0	28.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1918	11	25	12	38	48	36.4	27.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1918	11	28	02	43		36.4	27.5	12	5.0*	4.6*		4.8	VII *	KRK
1919	04	05	04	17	55	36.6	26.7	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1919	07	18	07	01	20	36.0	28.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1919	07	20	00	03	50	36.0	28.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1919	08	24	18	16	18	36.0	28.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1919	10	05	01	24		37.0	25.8	36	5.0*	4.6*		4.8	IV	KRK
1919	10	25	17	03		36.7	25.6	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1919	10	25	17	09	59	36.5	27.0	10	5.4*	5.6*	5.8	5.2*	VII *	ANK
1919	10	25	17	10		36.5	25.5	10	5.5*	5.8*		5.9	VIII*	KRK
1919	10	25	17	20		37.0	26.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1919	10	25	17	53	20	37.0	26.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1919	10	25	18	43		36.5	25.5	15	4.9*	4.3*		4.5	VI *	KRK
1919	10	25	20	04		36.5	25.5	20	4.9*	4.3*		4.5	VI *	KRK
1919	10	26	06	02		36.5	25.5	20	5.1*	4.8*		5.0	VII *	KRK
1919	10	27	11	30		37.0	26.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1919	10	29	16			37.0	26.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1920	04	02	15	34	25	36.8	26.6	10	5.3*	5.3*	5.5	5.1*	VII *	ANK
1920	08	10	21	53	49	36.3	26.3	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1920	11	15	09	20	43	36.2	25.5	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1921	01	23	09	07		36.2	25.5	30	5.2*	5.0*		5.2	VII *	KRK
1921	01	27	11	30	09	36.0	28.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1922	04	20	10	22	10	36.0	25.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1922	06	03	04	14	17	36.5	28.6	30	5.1*	4.7*	4.9	4.9*	VII *	ANK
1922	08	11	08	19	36	36.0	28.0	33	5.6*	6.0*	6.2	5.3*	VII *	KRK
1922	08	13	00	09	53	36.0	28.0	40	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1922	08	13	12	46		36.0	28.0	33	5.4*	5.6*	5.8	5.2*	VII *	KRK
1922	08	17	15	03		36.0	28.0	15	5.1*	4.8*		5.0	VII *	KRK
1923	11	27	15	38		36.0	26.0	15	5.0*	4.6*		4.8	VII *	KRK
1924	10	05	09	40		36.0	25.0	15	4.9*	4.3*		4.5	VI *	KRK
1925	03	17	15	32		37.2	26.2	15	5.1*	4.8*		5.0	VII *	KRK
1926	02	18	17	51		36.7	27.2	5	5.0*	4.5*		4.7	VII *	KRK
1926	03	19	00	28	33	36.0	28.9	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1926	05	22	05	33		36.0	26.0	15	5.0*	4.6*		4.8	VII *	KRK
1926	**06**	**26**	**19**	**46**		**36.5**	**27.5**	**100**	**6.5***	**8.1**		**6.0***	**VIII***	
1926	**06**	**26**	**19**	**48**		**36.0**	**27.5**	**100**	**6.3***	**7.7**		**5.9***	**VIII***	
1926	06	26	21	19	24	36.5	27.5	100	5.2*	5.1*	5.3	5.1*	VI	KRK
1926	06	27	02	13	12	36.0	28.0	100	5.2*	5.1*	5.3	5.1*	V	KRK
1926	07	05	09	21	54	36.5	27.0	150	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1926	**07**	**26**	**19**	**46**		**36.5**	**27.5**	**100**	**6.6***	**8.3**		**6.1***	**VIII***	
1926	12	07	14	12		36.0	27.0	15	5.1*	4.7*		4.9	VII *	KRK
1926	12	08	04	57		36.0	27.0	15	5.2*	4.9*		5.1	VII *	KRK
1926	12	12	13	55		36.0	27.0	15	4.9*	4.3*		4.5	VI *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O		M_L	INTENSITY MAX	SOURCE CODE
1928	01	23	01	30		36.5	25.5	15	5.1*	4.8*			5.0	VII *	KRK
1928	04	10	01	03	18	37.4	26.1	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1929	03	27	07	41	46	36.7	26.5	120	5.4*	5.5*	5.8	PAS	5.2*	VII *	G-R
1929	04	17	03	14	42	35.0	27.5	33	5.0*	4.5*	4.7		4.9*	VII *	KRK
1929	11	11	07	36	15	36.8	26.5	100	5.1*	4.8*	5.0		5.0*	VII *	KRK
1930	01	15	23	58	04	35.0	27.5	33	5.1*	4.7*	4.9		4.9*	VII *	KRK
1930	01	23	10	53	50	35.0	27.5	33	5.2*	5.1*	5.3		5.1*	VII *	KRK
1930	08	22	00	44		36.2	27.5	120	5.3*	5.4*			5.5	VII *	KRK
1930	08	22	00	44	54	35.0	27.5	33	5.1*	4.8*	5.0		5.0*	VII *	KRK
1931	04	20	20	33		35.0	27.0	15	5.2*	4.9*			5.1	VII *	KRK
1932	05	14	03	44	53	36.0	28.5		5.3*	5.4*	5.6	PAS	5.2*	VII *	G-R
1932	06	29	02	30	01	35.5	27.5		5.3*	5.4*	5.6	PAS	5.2*	VII *	G-R
1932	06	29	09	46	05	35.5	27.5	33	4.9*	4.3*	4.5		4.8*	VII *	KRK
1932	06	29	15	13	33	35.5	27.5	33	5.0*	4.5*	4.7		4.9*	VII *	KRK
1932	06	29	16	20	10	35.5	27.6	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1932	06	29	18	33	31	35.5	27.6	33	5.2*	5.0*	5.2		5.0*	VII *	KRK
1932	07	03	02	51	03	35.0	27.5	33	4.9*	4.4*	4.6		4.8*	VII *	KRK
1932	07	08	11	17	07	37.4	26.1		5.0*	4.6*	4.8		4.9*	VII *	ANK
1932	08	09	07	44		35.5	27.0	6	5.2*	5.0*			5.2	VII *	KRK
1932	10	23	13	36	35	35.2	27.2		5.3*	5.4*	5.6	PAS	5.2*	VII *	G-R
1932	11	30	06	51	25	37.8	25.0	33	4.9*	4.3*	4.5		4.8*	VII *	KRK
1932	12	07	07	55	46	36.8	27.5	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1933	04	23	05	57	35	36.7	27.2	50	5.8*	6.5*	6.8	PAS	5.5*	VII *	G-R
1933	04	28	22	28	41	35.2	27.0		5.3*	5.4*	5.6	PAS	5.2*	VII *	G-R
1933	05	15	20	01	42	36.2	26.6	33	5.1*	4.7*	4.9		4.9*	VII *	KRK
1933	09	24	13	21	15	35.5	27.6	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1934	11	09	13	40	56	36.7	25.7	140	5.6*	6.0*	6.3	PAS	5.4*	VII *	G-R
1935	**02**	**25**	**02**	**51**		**36.0**	**25.0**	**33**	**6.1***	**7.1**			**5.7***	**VIII***	
1935	03	18	08	40	41	35.5	27.0	130	5.6*	6.0*	6.3	PAS	5.4*	VII *	G-R
1936	04	28	23	15	26	36.7	26.7	170	5.4*	5.5*	5.8	PAS	5.2*	VII *	G-R
1938	01	16	13	37	15	36.5	28.0	200	5.2*	5.0*	5.3	PAS	5.0*	VII *	G-R
1941	07	13	15	39	36	37.7	26.1	60	5.6*	6.0*	6.2		5.3*	VII *	ANK
1942	06	21	04	38	43	36.5	27.0	130	5.6*	6.0*	6.3	PAS	5.4*	VII *	G-R
1942	09	01	09	42	15	36.4	27.4	33	5.4*	5.5*	5.7		5.2*	VIII	KRK
1943	01	11	11	56	16	36.3	27.1	10	5.2*	5.1*	5.3		5.1*	VII *	ANK
1943	10	16	13	08	53	36.5	27.5	110	5.6*	6.0*	6.3	PAS	5.4*	VII *	G-R
1943	11	15	11	43		36.9	28.8	33	5.2*	5.0*	5.2		5.0*	VII *	KRK
1943	11	20	10	01	52	36.9	28.8	33	5.3*	5.4*	5.6		5.2*	VII	KRK
1944	01	05	05	05	03	36.4	27.4	100	5.4*	5.5*	5.7		5.2*	VII *	KRK
1944	01	05	07	44	04	36.5	27.6	33	5.3*	5.4*	5.6		5.2*	VIII	KRK
1944	01	08	03			36.8	27.7	15	4.9*	4.3*			4.5	VI	KRK
1944	03	25	12	55		37.8	26.8	8	4.9*	4.3*			4.5	VI	KRK
1944	05	27	23	52	30	36.0	27.5	100	5.6*	6.0*	6.3	PAS	5.4*	VII *	G-R
1944	07	20	10	37	20	36.0	26.7	33	5.3*	5.2*	5.4		5.1*	VII *	KRK
1944	08	09	17	36	37	36.5	27.5	100	5.3*	5.3*	5.5	PAS	5.1*	VII *	G-R
1946	04	12	07	36	59	36.2	26.7	80	5.3*	5.3*	5.5		5.1*	VII *	ANK
1948	**02**	**09**	**12**	**58**		**35.5**	**27.0**	**40**	**6.1***	**7.1**			**5.7***	**VIII***	
1948	02	09	12	58	15	35.5	27.0	40	6.0*	6.9*	7.1		5.6*	VII *	BDA
1948	02	10	15	58	52	35.5	27.2	33	5.1*	4.9*	5.1		5.0*	VII *	KRK
1948	02	11	18	03	36	35.5	27.2	33	4.9*	4.4*	4.6		4.8*	VII *	KRK
1948	02	11	22	31	24	35.5	27.2	33	5.1*	4.9*	5.1		5.0*	VII *	KRK
1948	02	12	22	27	10	35.5	27.2	33	5.2*	5.1*	5.3		5.1*	VII *	KRK
1948	02	15	17	54	55	35.5	27.2	33	5.2*	5.0*	5.2		5.0*	VII *	KRK
1948	03	29	02	32	53	35.5	27.2	33	5.1*	4.8*	5.0		5.0*	VII *	KRK
1948	07	26	11	26	24	35.5	27.2	33	5.1*	4.7*	4.9		4.9*	VII *	KRK
1948	08	10	13	26	49	36.9	28.8	33	5.3*	5.4*	5.6		5.2*	VII *	KRK
1948	10	18	08	59	53	35.5	27.2	33	5.3*	5.3*	5.5		5.1*	VII *	KRK
1948	10	19	03	04	28	35.5	27.2	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1949	01	02	18	01	44	35.5	27.2	33	5.0*	4.6*	4.8		4.9*	VII *	KRK
1949	07	07	12	21	04	35.5	27.2	33	5.1*	4.7*	4.9		4.9*	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1950	05	30	09	52		35.5	27.2	22	5.0*	4.6*		4.8	VII *	KRK
1950	05	30	09	52	51	36.8	27.2	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1950	06	04	14	11		36.5	28.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1950	12	25	20	48		36.9	25.3	16	4.9*	4.3*		4.5	VI *	KRK
1950	12	28	22	31	25	35.5	27.2	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1951	01	13	01	54	47	36.0	26.0	33	4.9*	4.4*	4.6	4.8*	VI	KRK
1952	04	09	08	34	35	37.8	26.9	33	4.9*	4.3*	4.5	4.8*	VI	KRK
1952	04	09	08	43		37.8	26.9	10	4.9*	4.3*		4.5	VI	KRK
1952	06	09	14	48	31	36.6	27.6	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1952	08	24	20	44	28	35.4	27.4	80	5.1*	4.7*	4.9	4.9*	VII *	ANK
1952	10	22	04	14	52	36.7	27.9	33	5.2*	5.0*	5.2	5.0*	VI	KRK
1953	01	10	23	29		37.9	25.6	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1953	01	12	09	31	06	36.0	28.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	02	24	14	03	30	35.0	27.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1953	03	20	19	42		36.5	27.7	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	05	16	02	52	11	35.5	27.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	06	07	13	52	49	36.0	27.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	06	13	06	50	38	36.0	26.9	40	4.9*	4.3*	4.5	4.8*	VII *	ANK
1953	06	23	01	53	12	36.0	25.0	100	5.6*	5.9*	6.1	5.3*	VI	KRK
1953	12	05	20	14	26	36.5	26.7	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	12	20	17	56	20	36.0	27.8	40	5.1*	4.9*	5.1	5.0*	VII *	ANK
1954	01	02	01	13	21	36.5	27.5	33	5.2*	5.1*	5.3	5.1*	VII	KRK
1954	02	22	18	09		35.8	27.5	15	4.9*	4.3*		4.5	VI *	KRK
1954	05	03	13	29	41	35.5	27.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1954	06	17	13	47	34	36.5	27.7	60	4.9*	4.3*	4.5	4.8*	VII *	ANK
1954	07	18	13	18		37.5	25.5	10	5.0*	4.6*		4.8	VII *	KRK
1954	08	05	20	39	09	35.8	27.6	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1954	08	06	16	01	18	36.7	25.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1954	09	04	04	19	12	36.7	26.7	130	5.3*	5.4*	5.6	5.2*	VII *	KRK
1954	11	23	23	22	49	35.7	27.2	33	4.8*	4.2*	4.4	4.8*	VI	KRK
1955	05	31	01	04		36.0	26.0	15	5.0*	4.5*		4.7	VII *	KRK
1955	11	11	18	27	40	37.5	27.0	10	5.0*	4.5*	4.7	4.9*	VII *	ANK
1955	11	11	20	04	16	37.4	26.4	10	4.9*	4.3*	4.5	4.8*	VII *	ANK
1956	05	05	20	42		37.0	28.6	40	5.0*	4.5*	4.7	4.9*	VII *	ANK
1956	07	08	13	05		36.9	26.0	15	4.9*	4.3*		4.5	VI *	KRK
1956	**07**	**09**	**03**	**11**		**37.0**	**26.0**	**60**	**6.3***	**7.6**		**5.8***	**VIII***	
1956	07	09	03	24		36.6	25.7	20	5.8*	6.4*		6.5	VIII*	KRK
1956	07	09	04	15		36.9	26.0	22	5.0*	4.6*		4.8	VII *	KRK
1956	07	09	04	33		36.9	26.0	20	5.0*	4.5*		4.7	VII *	KRK
1956	07	09	05	14		36.9	26.0	20	4.9*	4.4*		4.6	VI *	KRK
1956	07	09	06	19		36.6	25.8	20	5.2*	4.9*		5.1	VII *	KRK
1956	07	09	06	22		36.8	25.9	20	5.3*	5.2*		5.4	VII *	KRK
1956	07	09	07	36		36.9	26.0	20	5.1*	4.8*		5.0	VII *	KRK
1956	07	09	09	45	10	36.6	25.9	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1956	07	09	11	30	55	36.5	26.3	40	5.1*	4.7*	4.9	4.9*	VII *	ANK
1956	07	09	20	10		36.9	26.0	20	4.9*	4.3*		4.5	VI *	KRK
1956	07	09	20	13		36.7	26.0	20	5.1*	4.7*		4.9	VII *	KRK
1956	07	09	20	48		36.9	26.0	20	5.0*	4.5*		4.7	VII *	KRK
1956	07	09	21	28		36.9	26.0	20	5.1*	4.8*		5.0	VII *	KRK
1956	07	10	01	59		36.9	26.0	20	5.1*	4.7*		4.9	VII *	KRK
1956	07	10	03	01		36.7	26.2	20	5.2*	5.0*		5.2	VII *	KRK
1956	07	12	06	17	47	36.7	25.9	10	4.9*	4.3*	4.5	4.8*	VII *	ANK
1956	07	22	03	28		37.1	26.8	6	5.0*	4.6*		4.8	VII *	KRK
1956	09	06	11	46		36.0	25.6	15	5.3*	5.1*		5.3	VII *	KRK
1956	09	06	12	58	42	36.0	25.9	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1956	09	16	18	07		36.0	26.1	15	4.9*	4.4*		4.6	VI *	KRK
1956	12	02	19	41		36.8	25.7	16	5.0*	4.5*		4.7	VII *	KRK
1956	12	27	10	08		35.8	27.8	15	5.0*	4.6*		4.8	VII *	KRK
1957	02	05	17	20	33	36.4	28.9	60	5.2*	5.0*	5.2	5.0*	VII *	ANK
1957	02	09	01	39		36.7	27.0	15	5.1*	4.8*		5.0	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1957	**04**	**24**	**19**	**10**		**36.0**	**28.5**		**6.0***	**6.9**		**5.6***	**VIII***	
1957	04	24	19	10	05	36.0	28.5		5.9*	6.7*	6.9 PAS	5.6*	VI	PDE
1957	**04**	**25**	**02**	**25**		**36.5**	**28.6**	**53**	**6.1***	**7.1**		**5.7***	**VIII***	
1957	04	25	07	52		36.5	28.9	18	4.9*	4.3*		4.5	VI *	KRK
1957	04	26	06	33		36.2	28.9	30	5.5*	5.8*		5.9	VIII*	KRK
1957	04	26	16	09	07	36.4	28.8	10	5.0*	4.5*	4.7	4.9*	VII *	ANK
1957	10	30	01	42		35.1	27.2	15	5.3*	5.2*		5.4	VII *	KRK
1957	10	30	07	30		35.2	27.7	15	5.3*	5.1*		5.3	VII *	KRK
1957	12	05	13	55	31	35.5	27.7	40	5.2*	5.0*	5.2	5.0*	VII *	ANK
1958	03	04	11	32	18	36.3	27.8	120	5.2*	5.0*	5.2	5.0*	VII *	ANK
1958	04	03	07	18		35.0	27.3	15	5.1*	4.8*		5.0	VII *	KRK
1958	04	24	08	00	39	36.8	26.5	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1958	05	09	02	40		36.5	27.9	9	5.2*	5.0*		5.2	VII *	KRK
1958	05	27	18	27	46	36.8	26.8	160	5.1*	4.9*	5.1	5.0*	VII *	ANK
1958	06	30	08	42		36.6	27.3	120	5.6*	5.9*		6.0	VI	KRK
1958	09	04	00	02		36.6	26.7	50	5.2*	5.0*		5.2	VII *	KRK
1958	09	04	02	51	06	36.4	27.0	140	5.1*	4.7*	4.9	4.9*	VII *	ANK
1958	12	09	08	54	43	36.6	28.2	50	4.9*	4.3*	4.5	4.8*	VII *	ANK
1959	01	20	20	40	50	36.7	28.7		5.0*	4.6*	4.8	4.9*	VII *	ANK
1959	04	08	19	02	37	36.6	26.8	160	5.0*	4.5*	4.7	4.9*	VII *	ANK
1959	04	25	00	26	44	36.9	28.6	30	5.5*	5.7*	5.9	5.2*	VII *	ANK
1959	04	25	01	05		36.6	28.4	10	5.2*	5.0*		5.2	VII *	KRK
1959	04	30	22	44	39	36.2	26.7	100	5.0*	4.6*	4.8	4.9*	VII *	ANK
1959	05	20	16	36		36.8	26.4	21	5.2*	4.9*		5.1	VII *	KRK
1959	07	12	16	52	31	36.0	26.3	80	5.2*	5.1*	5.3	5.1*	VII *	ANK
1959	11	15	04	07		36.8	26.0	80	4.9*	4.4*		4.6	VI *	KRK
1960	01	26	13	13	21	36.9	28.6	30	4.9*	4.4*	4.6	4.8*	VII *	ANK
1960	01	27	02	28		36.6	28.7	5	4.8*	4.1*		4.3	VII	KRK
1960	04	13	11	28		35.7	27.0	14	4.9*	4.3*		4.5	VI *	KRK
1960	04	30	10	12		36.8	27.5	20	5.0*	4.5*		4.7	VII *	KRK
1960	05	02	18	37	36	36.9	26.8	20	4.9*	4.4*	4.6	4.8*	VII *	ANK
1960	11	03	07	17		36.1	26.1	15	4.9*	4.3*		4.5	VI *	KRK
1961	02	23	03	23		35.1	27.2	25	4.9*	4.4*		4.6	VI *	KRK
1961	02	23	21	46		36.6	27.2	15	5.0*	4.5*		4.7	VII *	KRK
1961	02	23	21	56	51	36.7	27.2	40	5.1*	4.7*	4.9	4.9*	VII *	ANK
1961	02	27	21	40		36.7	27.4	7	5.1*	4.8*		5.0	VII	KRK
1961	02	27	21	43		36.7	27.4	13	5.0*	4.6*		4.8	VI	KRK
1961	02	27	21	54		36.7	27.3	9	4.9*	4.3*		4.5	VI	KRK
1961	03	13	15	31		36.6	27.0	14	4.9*	4.4*		4.6	VI *	KRK
1961	03	13	15	32	01	36.2	26.4	10	5.0*	4.6*	4.8	4.9*	VII *	ANK
1961	05	23	02	45		36.5	28.6	24	5.7*	6.2*		6.3	VIII*	KRK
1961	05	25	13	11		37.0	26.9	16	5.0*	4.5*		4.7	VII *	KRK
1961	06	16	14	59		35.1	27.5	38	4.9*	4.3*		4.5	VI *	KRK
1961	08	16	01			36.0	26.0		5.0*	4.6*	4.8	4.9*	VII *	ANK
1962	04	16	07	19	06	36.1	27.2	140	5.3*	5.2*	5.4	5.1*	VII *	ANK
1962	04	28	11	18		36.1	27.0	40	5.5*	5.7*		5.8	VIII*	KRK
1962	04	28	12	43		36.1	27.0	40	5.3*	5.2*		5.4	VII *	KRK
1962	09	10	09	36		35.6	27.5	30	5.2*	4.9*		5.1	VII *	KRK
1963	03	05	07	53		36.1	26.2	80	5.1*	4.8*		5.0	VII *	KRK
1963	07	08	16	02		36.6	27.9	28	5.0*	4.5*		4.7	VI	KRK
1963	07	26	19	46	39	36.8	28.8	80	5.1*	4.9*	5.1	5.0*	VII *	ANK
1963	09	10	13	09		36.7	27.3	18	4.9*	4.3*		4.5	VI *	KRK
1963	11	10	11	18		36.4	25.8	15	4.9*	4.3*		4.5	VI *	KRK
1964	03	31	09	33		36.4	28.8	52	5.0*	4.5*		4.7	VII *	KRK
1964	04	25	12	44		35.4	27.7	39	4.9*	4.3*		4.5	VI *	KRK
1964	07	18	03	40		36.1	26.0	100	5.1*	4.8*		5.0	VII *	KRK
1964	08	25	11	11	54	36.1	28.7	50	4.9	4.5*		4.8*	VII *	PDE
1965	01	02	13	47	43	36.5	26.1	59	5.1*	4.7*	4.9	4.9*	VII *	ANK
1965	01	07	10	22		36.5	26.8	40	5.1*	4.8*		5.0	VII *	KRK
1965	02	06	03	47		35.4	27.0	60	5.1*	4.7*		4.9	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1965	04	29	09	46		37.1	26.9	15	5.0*	4.6*		4.8	VII *	KRK
1965	05	01	01	59		37.2	26.9	15	4.9*	4.4*		4.6	VI *	KRK
1965	05	07	14	42		36.7	26.9	160	4.9*	4.4*		4.6	VI *	KRK
1965	05	16	01	35		35.3	27.8	38	4.9*	4.4*		4.6	VI *	KRK
1965	06	10	15	24		36.4	26.4	142	5.0*	4.6*		4.8	VII *	KRK
1965	11	28	05	26		36.1	27.4	73	5.4*	5.6*		5.7	VI	KRK
1965	12	07	01	00	57	36.3	27.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1965	12	07	08	25	03	35.6	27.5		5.0*	4.6*	4.8	4.9*	VII *	ANK
1966	02	08	13	16		36.2	28.1	79	4.9*	4.4*		4.6	VI *	KRK
1966	02	14	17	57		35.0	27.1	43	5.0*	4.6*		4.8	VII *	KRK
1966	03	27	23	58	58	37.0	26.9		4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	03	29	00	08	42	37.0	26.8	33	4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	03	29	15	16	31	37.0	26.9		4.9*	4.3*	4.5	4.8*	VII •	ANK
1966	04	11	06	43	46	35.6	27.1		4.9*	4.4*	4.6	4.8*	VII *	ANK
1966	04	13	20	44	08	36.8	28.5		5.0*	4.6*	4.8	4.9*	VII *	ANK
1966	05	15	10	11		35.2	27.2	34	4.9*	4.3*		4.5	VI *	KRK
1966	09	06	12	31		36.7	26.6	158	4.9*	4.3*		4.5	VI *	KRK
1966	09	10	10	55		36.5	26.9	146	4.9*	4.3*		4.5	VI *	KRK
1966	12	18	07	42	20	35.2	27.0	41	4.6	4.0*		4.6*	VI *	PDE
1967	08	28	17	36		36.7	26.7	169	4.9*	4.3*		4.5	VI *	KRK
1967	10	11	07	48		36.1	27.1	34	4.9*	4.3*		4.5	VI *	KRK
1967	11	09	14	48	44	35.5	27.8	47	5.7	5.8*		5.4*	VII *	PDE
1967	12	05	05	20		36.5	26.8	137	5.0*	4.5*		4.7	VII *	KRK
1968	02	07	22	22		36.6	26.7	153	5.1*	4.8*		5.0	VII *	KRK
1968	02	20	16	50		36.2	27.4	60	5.1*	4.7*		4.9	VII *	KRK
1968	05	30	17	40		35.4	27.9	27	5.5*	5.8*		5.9	VIII*	KRK
1968	06	12	09	05		35.3	27.9	20	4.9*	4.4*		4.6	VI *	KRK
1968	07	04	23	17		35.4	27.9	46	4.9*	4.3*		4.5	VI *	KRK
1968	07	27	02	45		35.4	27.9	28	5.5*	5.8*		5.9	VIII*	KRK
1968	08	04	18	18		35.4	27.8	42	4.9*	4.3*		4.5	VI *	KRK
1968	09	05	18	42	32	36.3	26.7	1	4.9*	4.3*	4.5	4.8*	VII *	ANK
1968	10	06	15	06		37.0	26.4	25	5.0*	4.5*		4.7	VII *	KRK
1968	10	31	03	22		36.6	27.0	30	5.3*	5.1*		5.3	VII *	KRK
1968	11	04	20	05		36.4	27.0	30	4.9*	4.4*		4.6	VI *	KRK
1968	11	11	23	34		36.6	27.2	22	5.0*	4.6*		4.8	VI	KRK
1968	11	11	23	53		36.6	27.1	36	4.9*	4.3*		4.5	VI *	KRK
1968	11	12	03	37		36.7	27.1	30	5.0*	4.5*		4.7	VII *	KRK
1968	11	12	06	08		36.6	27.2	33	4.9*	4.4*		4.6	III	KRK
1968	12	04	19	37		36.5	27.0	30	5.0*	4.5*		4.7	VII *	KRK
1968	12	05	07	52		36.6	27.0	30	5.4*	5.6*		5.7	VIII*	KRK
1968	12	09	20	22	17	36.5	27.1	44	4.9*	4.4*	4.6	4.8*	VII *	ANK
1968	12	21	00	36		36.6	27.1	25	4.9*	4.3*		4.5	VI *	KRK
1968	12	21	03	04	40	36.6	27.3		5.1*	4.8*	5.0	5.0*	VII *	ANK
1969	02	26	12	35	48	36.6	27.2	27	4.8	4.3*		4.8*	VII *	PDE
1969	04	16	04	54		35.3	27.9	15	5.0*	4.6*		4.8	VII *	KRK
1969	04	16	22	55		35.3	27.8	30	5.1*	4.8*		5.0	VII *	KRK
1969	04	16	23	21		35.2	27.7	30	5.2*	5.0*		5.2	VII *	KRK
1969	04	17	00	54		35.2	27.8	55	5.0*	4.6*		4.8	VII *	KRK
1969	04	17	12	38	36	35.1	27.8	33	4.7	4.2*		4.7*	VII *	PDE
1969	04	24	14	45		36.4	28.7	50	5.0*	4.5*		4.7	VII *	KRK
1969	04	27	10	58	22	36.5	28.4	15	4.7	4.2*		4.6 ATH	VI *	PDE
1969	05	01	18	02		35.4	27.7	46	5.0*	4.6*		4.8	VII *	KRK
1969	05	01	20	06		35.4	27.7	55	5.0*	4.5*		4.7	VII *	KRK
1969	05	03	20	31		35.2	27.8	50	5.0*	4.5*		4.7	VII *	KRK
1969	05	14	10	05		35.3	27.7	40	5.1*	4.7*		4.9	VII *	KRK
1969	05	15	12	05		35.3	27.7	50	5.0*	4.6*		4.8	VII *	KRK
1969	06	25	06	11		36.0	27.6	44	5.0*	4.5*		4.7	VII *	KRK
1969	07	04	10	13		35.3	27.9	25	5.0*	4.5*		4.7	VII *	KRK
1969	08	25	10	07	44	35.8	27.1		4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	09	04	19	25		35.1	27.2	40	5.0*	4.6*		4.8	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1969	09	06	20	30		36.7	28.4	65	5.3*	5.2*		5.4	VII *	KRK
1969	09	22	08	17		36.6	28.0	90	5.0*	4.5*		4.7	VII ●	KRK
1969	10	16	02	52	23	36.4	27.2		4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	10	27	01	12	34	36.5	27.2		4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	11	03	09	25	05	36.4	27.1		4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	12	21	22	01		36.7	28.4	69	4.9*	4.4*		4.6	VI *	KRK
1970	02	20	10	06	12	36.6	27.3	33	4.6	4.0*		4.6*	VI ●	PDE
1970	02	20	20	19		36.6	27.3	25	4.9*	4.3*		4.5	VI *	KRK
1970	04	24	14	37		36.8	28.7	34	4.9*	4.4*		4.6	VI ●	KRK
1970	05	24	11	03		36.3	25.5	24	5.1*	4.7*		4.9	VII *	KRK
1970	06	09	20	43		36.2	25.6	65	4.9*	4.3*		4.5	VI *	KRK
1970	09	28	19	54		36.9	28.3	15	4.9*	4.3*		4.5	VI *	KRK
1970	11	11	20	58		36.0	28.3	40	5.2*	4.9*		5.1	VII *	KRK
1970	12	30	18	54	44	37.0	28.9	23	4.9*	4.3*	4.5	4.8*	VII *	ANK
1971	03	18	16	08	04	36.5	27.0	154	4.7	4.2*		4.7*	VII *	PDE
1971	04	17	08	27	30	36.0	27.3		5.0*	4.6*	4.8	4.9*	VII *	ANK
1971	07	03	04	05	54	35.1	27.8	34	4.7	4.2*		4.7*	VII *	PDE
1971	09	03	13	17	01	36.8	28.8		4.9*	4.4*	4.6	4.8*	VII *	ANK
1971	10	16	09	45	36	36.6	28.4	61	4.8	4.3*		4.8*	VII ●	PDE
1971	11	12	12	30	50	36.5	27.1	23	4.7	4.2*		4.8 ATH	VII *	PDE
1971	11	22	19	26	45	35.3	27.7	35	4.8	4.3*		4.5 ATH	VI *	PDE
1972	01	20	00	52	21	36.7	27.1	33	4.6	4.0*		4.7 ATH	VII *	PDE
1972	01	20	02	15	07	36.6	27.1	33	4.8	4.3*		4.4 ATH	VI *	PDE
1972	03	10	22	13	18	36.5	26.9	148	4.7	4.2*		4.7*	VII *	PDE
1972	12	02	13	28	24	35.4	27.1	55	5.1	4.8*		4.7 ATH	VII *	PDE
1972	12	15	17	55	47	35.2	27.2	33	4.7	4.2*		4.1 ATH	VI *	PDE
1972	12	19	19	34	31	35.5	27.8	54	4.6	4.0*		4.6 ATH	VI *	PDE
1973	11	12	00	07	13	35.5	27.7	69	4.7	4.2*		4.8 ATH	VII ●	PDE
1973	11	12	00	11	52	35.6	27.7	33	5.1	4.8*		5.1 ATH	VII ●	PDE
1973	11	19	07	28	58	35.4	27.6	33	4.7	4.2*		4.0 ATH	VI *	PDE
1973	11	30	06	47	44	36.3	28.7		4.9*	4.3*	4.5	4.8*	VII *	ANK
1974	02	05	15	05	24	36.8	27.0	153	4.8	4.3*		4.8*	VII *	PDE
1974	03	12	18	21	34	36.8	26.3	39	4.7	4.1		4.6 ATH	VI *	PDE
1974	06	09	02	32	17	36.7	28.4		5.1*	4.8*	5.0	5.0*	VII *	ANK
1974	07	09	02	32	18	36.7	28.4	69	5.0	4.6*		4.9*	VII *	PDE
1974	09	29	06	35	34	35.5	27.9	56	4.6	4.0*		4.6*	VI *	PDE
1975	01	03	01	59	45	35.7	27.2	49	4.8	4.3*		4.8*	VII ●	PDE
1975	02	15	10	23	18	35.9	27.1	28	4.6	4.0*		4.6*	VI *	PDE
1975	09	23	21	34	15	36.7	26.8	166	4.6	4.0*		4.6*	VI *	PDE
1975	11	12	09	03	50	36.3	28.2	68	5.2	5.0*		5.0*	VII *	PDE
1976	02	10	09	52	06	36.8	27.8	14	4.7	4.2*		4.4 ATH	VI *	PDE
1976	08	17	17	37	57	36.9	27.0	167	5.1	4.8*		5.0*	VII *	PDE
1976	08	18	17	06	36	36.8	27.4	163	4.7	4.2*		4.7*	VII *	PDE
1977	03	28	10	50	18	36.8	27.5	24	4.8	4.3*		4.7 ATH	IV	PDE
1977	10	27	06	59	27	35.5	27.6	52	4.9	4.8		4.8*	VII *	PDE
1977	11	28	02	59	11	36.0	27.8	85	5.6	5.6*		5.3*	VII ●	PDE
1978	03	01	22	51	05	36.0	27.1	89	4.6	4.0*		4.6*	VI *	PDE
1978	03	13	13	06	43	37.8	26.9	33	4.7	4.2*		4.3 ATH	VI *	PDE
1978	11	28	18	02	20	36.2	26.4	123	5.0	4.6*		4.9*	VII *	PDE
1979	08	22	20	12	48	35.9	27.4	93	5.3	5.1*		4.6 ATH	VI *	PDE
1980	03	29	03	58	07	36.0	28.3	77	4.7	4.2*		4.7*	VII *	PDE
1980	04	11	18	56	09	37.0	27.8	33	4.6	4.0*		4.6*	VI *	PDE
1980	05	16	00	37	30	36.0	27.4	65	5.0	4.6*		4.9*	VII ●	PDE
1980	05	18	00	14	19	35.8	27.2	33	4.6	4.0*		4.6*	VI *	PDE
1980	10	04	15	12	04	36.9	28.8	10	4.9	4.8		4.9 ATH	VII ●	PDE
1981	05	11	19	15	25	36.8	28.1	27	4.7	4.2*		4.9 ATH	VII *	PDE
1982	04	18	23	18	01	36.7	27.1	162	4.9	4.5*		4.8*	VII *	PDE
1982	06	07	00	31	25	37.0	28.0	10	4.6	4.0*		4.6 ATH	VI *	PDE
1982	06	29	06	57	40	37.0	27.9	9	4.6	4.0*		4.5 ATH	VI *	PDE
1982	10	11	03	19	46	35.6	27.8	76	4.6	4.0*		4.6*	VI *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1982	11	28	12	12	10	36.4	26.3	141	4.6	4.0*		4.6*	VI *	PDE
1983	04	14	09	36	27	36.8	27.0	10	4.7	4.2*		4.7*	VII *	PDE
1983	04	21	05	23	40	36.5	27.8	10	4.6	4.0*		4.6*	VI *	PDE
1983	09	09	17	59	42	35.4	27.2	10	5.1	5.4		5.2 ATH	VII *	PDE
1983	09	27	23	59	38	36.7	26.9	159	5.5	5.4*		5.3*	VII *	PDE
1983	10	23	03	15	35	36.7	25.6	30	4.6	4.4		4.6 ATH	VI *	PDE
1983	11	18	07	13	29	36.9	28.7	15	4.6	4.0*		4.6*	VI *	PDE
1983	11	21	17	19	17	36.7	26.7	36	4.6	4.0*		4.2 ATH	VI *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1903	07	19	18	07	54	35.0	30.0	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1910	08	21	16	11	30	34.0	27.0	170	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1910	08	21	17	14		34.4	27.0	160	5.5*	5.8*		5.9	VIII*	KRK
1920	07	21	14	29	05	34.4	27.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1923	03	10	19	48	40	34.5	27.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1925	01	27	08	17		33.5	27.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1925	04	04	23	34	36	35.5	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1925	04	05	03	04	25	35.5	29.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1925	04	05	03	15		35.5	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1925	04	05	03	53	40	35.5	29.0	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1925	04	06	08	53		35.5	29.0	15	4.9*	4.3*		4.5	VI *	KRK
1925	04	12	19	25	35	35.5	29.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1925	04	15	04	58	48	35.5	29.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1925	04	15	06	01	45	35.5	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1925	04	15	06	14	30	35.5	29.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1925	04	15	13	55		35.5	29.0	15	5.0*	4.5*		4.7	VII *	KRK
1925	04	15	21	09		35.5	29.0	15	4.9*	4.4*		4.6	VI *	KRK
1926	03	18	14	06	09	35.0	29.5		5.9*	6.7*	6.9 PAS	5.6*	VII *	G-R
1926	03	18	17	52	44	35.5	29.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1926	03	19	00	28	24	35.5	29.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1926	03	21	22	04	12	35.5	29.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1926	03	23	01	58	35	35.5	29.0	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1926	03	24	07	04	30	35.5	29.0	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1926	03	28	21	42		35.5	29.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1926	03	31	15	06	45	35.5	29.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1926	04	22	07	11	30	35.5	29.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1927	05	02	06	20	24	32.5	31.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1928	04	27	13	18		34.5	27.5	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1929	05	01	19	36	44	34.0	28.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1929	08	05	23	23		34.0	27.0	15	5.3*	5.1*		5.3	VII *	KRK
1930	06	05	21	58	25	35.8	30.3	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	08	05	23	23		34.0	27.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1931	04	20	20	33	40	34.0	27.0	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1932	05	14	03	45	03	35.7	28.7	100	5.2*	5.0*	5.2	5.0*	VII *	ANK
1932	07	15	08	07		34.0	27.0	15	4.9*	4.4*		4.6	VI *	KRK
1932	08	09	07	44	22	34.5	27.5	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1933	06	15	18	41		34.2	29.5	15	4.9*	4.3*		4.5	VI *	KRK
1934	03	08	02	56	47	33.2	26.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1936	01	23	14	42	21	35.0	29.5	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1937	04	28	02	36	40	35.7	30.8	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1940	08	16	16	02	23	35.7	30.8	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1940	08	16	18	23	12	35.7	30.8	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1942	02	02	17	05		35.0	28.0	15	5.3*	5.1*		5.3	VII *	KRK
1942	02	02	17	05	12	33.8	26.5	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1942	06	16	04	47	30	33.8	26.5	33	5.3*	5.4*	5.6	5.2*	VII *	KRK
1943	04	09	19	46	44	34.0	28.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1945	09	02	11	53	57	33.7	28.5	80	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1946	07	16	05	26	26	33.8	25.3	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1946	10	13	21	24	31	33.8	26.5	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1946	10	18	04	33	44	33.8	26.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1947	03	28	03	40	32	33.8	25.3	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1948	09	20	17	59	52	34.9	27.0	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1949	01	04	19	46	51	34.9	27.0	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1949	06	17	04	20	56	34.4	28.5	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1949	10	28	19	10		33.0	33.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1951	01	30	23	07	23	32.4	33.4	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1952	08	24	20	44	15	35.0	28.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1953	02	01	19	52	36	33.5	32.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1953	06	19	18	43		35.8	28.2	15	4.9*	4.3*		4.5	VI *	KRK
1953	09	04	23	46	15	35.0	28.2	33	4.9*	4.3*	4.5	4.8*	VII *	KRK

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1953	09	05	01	08		35.5	28.0	15	5.1*	4.8*		5.0	VII *	KRK
1953	09	05	01	08	18	35.5	28.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1954	10	28	13	39	01	32.4	31.4	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1955	01	16	05	43	40	35.5	28.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1955	**09**	**12**	**06**	**09**		**32.5**	**29.6**		**5.8***	**6.5**		**5.5***	**VII ***	
1956	12	27	10	08	10	35.5	28.0	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1957	07	14	04	30	57	35.8	28.6	10	5.1*	4.7*	4.9	4.9*	VII *	ANK
1957	08	08	01	12		32.4	25.2		5.1*	4.8*		5.0	VII *	KRK
1957	08	14	02	45		35.5	28.0	15	5.1*	4.8*		5.0	VII *	KRK
1959	01	03	07	59	23	35.3	29.0	80	5.1*	4.7*	4.9	4.9*	VII *	ANK
1959	09	28	10	16	22	35.7	30.1	100	5.1*	4.9*	5.1	5.0*	VII *	ANK
1960	09	16	01	28	03	35.6	28.5	40	5.2*	5.0*	5.2	5.0*	VII *	ANK
1960	11	18	06	03		35.2	28.6	24	4.9*	4.3*		4.5	VI *	KRK
1962	08	07	05	15	51	35.7	30.3	100	4.9*	4.3*	4.5	4.8*	VII *	ANK
1962	10	26	11	26		33.6	27.6	100	5.2*	5.0*		5.2	VII *	KRK
1962	12	13	22	45		34.9	27.9	15	5.1*	4.7*		4.9	VII *	KRK
1963	10	22	17	02	43	33.4	25.8	33	4.6	4.0*		4.6*	VI *	PDE
1963	11	12	07	06		35.5	29.7	60	5.1*	4.8*		5.0	VII *	KRK
1963	11	26	16	19		34.6	27.5	15	4.9*	4.3*		4.5	VI *	KRK
1964	08	25	07	08		35.4	28.6	20	4.9*	4.4*		4.6	VI *	KRK
1964	08	25	08	05		35.5	28.9	50	4.9*	4.3*		4.5	VI *	KRK
1964	08	25	11	11		35.7	28.9	50	5.0*	4.6*		4.8	VII *	KRK
1964	08	25	11	42		35.3	28.6	28	4.9*	4.4*		4.6	VI *	KRK
1964	08	25	14	37		35.6	28.8	30	5.0*	4.6*		4.8	VII *	KRK
1964	08	29	19	37		35.3	28.7	44	5.0*	4.5*		4.7	VII *	KRK
1964	09	18	00	08		35.7	28.5	24	5.2*	5.0*		5.2	VI	KRK
1965	01	17	03	39		34.6	27.8	36	4.9*	4.4*		4.6	VI *	KRK
1965	01	29	23	39		34.8	27.6	30	5.0*	4.5*		4.7	VII *	KRK
1965	04	19	06	46		34.6	28.4	33	4.9*	4.3*		4.5	VI *	KRK
1965	05	16	01	35	55	35.4	28.0	34	4.6	4.0*		4.6*	VI *	PDE
1965	11	27	11	02	51	35.5	29.3	37	4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	01	14	18	39		34.7	27.0	25	4.9*	4.3*		4.5	VI *	KRK
1966	01	16	18	52		33.2	26.1	20	5.0*	4.5*		4.7	VII *	KRK
1966	02	14	17	57	49	34.9	27.1	38	5.0	4.6*		4.9*	VII *	PDE
1966	04	08	13	46	51	35.8	31.0	50	4.9*	4.3*	4.5	4.8*	VII *	ANK
1966	10	29	12	13		34.7	27.5	60	4.9*	4.4*		4.6	VI *	KRK
1966	12	25	19	51		35.2	28.2	57	4.9*	4.3*		4.5	VI *	KRK
1967	05	30	23	53		34.2	28.7	35	4.9*	4.3*		4.5	VI *	KRK
1968	07	13	19	34	07	35.6	28.0		4.9*	4.3*	4.5	4.8*	VII *	ANK
1968	07	31	19	29		35.5	28.0	40	5.0*	4.6*		4.8	VII *	KRK
1968	08	19	15	35		33.7	25.7	20	5.1*	4.7*		4.9	VII *	KRK
1969	02	17	09	11	43	33.9	25.2	13	4.7	4.2*		4.7*	VII *	PDE
1969	05	03	03	25		35.2	28.0	70	4.9*	4.4*		4.6	VI *	KRK
1969	07	11	01	45		35.3	28.1	30	4.9*	4.3*		4.5	VI *	KRK
1970	11	11	20	58	11	36.0	28.2	35	5.2*	5.0*	5.2	5.0*	VII *	ANK
1972	11	28	13	26	15	33.8	27.9	33	4.8	4.3*		4.6 ATH	VI *	PDE
1975	04	28	02	29	08	34.7	28.8	33	4.7	4.2*		4.7*	VII *	PDE
1975	12	21	15	37	06	34.8	27.1	66	4.6	4.0*		4.6*	VI *	PDE
1976	11	23	16	29	44	34.7	28.3	41	4.6	4.0*		4.6*	VI *	PDE
1977	06	21	19	13	26	35.6	29.6	46	4.7	4.2*		4.7*	VII *	PDE
1980	05	02	05	30	58	35.7	29.8	32	5.1	5.2		5.0*	VII *	PDE
1981	08	10	05	21	24	36.0	30.0	51	4.6	4.0*		4.6*	VI *	PDE
1981	11	27	13	30	28	35.9	30.2	10	4.6	3.9		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1918	09	29	12	07	05	35.2	34.7	33	5.7*	6.3*	6.5	5.4*	IX	KRK
1919	08	19	20	17	20	35.2	34.7	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1921	04	20	16	04	20	34.0	33.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1922	04	02	00	46	10	34.7	34.8	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1924	02	18	17	03	56	34.5	34.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1924	06	09	21	34	35	35.2	33.3	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1927	12	12	20	26	19	34.5	34.0	33	5.3*	5.2*	5.4	5.1*	VII *	KRK
1930	05	09	07	07	22	34.5	32.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1930	07	25	19	46	33	35.0	32.0	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1930	11	16	20	46	30	34.1	32.2	33	5.1*	4.9*	5.1	5.0*	VII *	KRK
1936	01	20	02	29	14	34.8	31.3	33	5.1*	4.7*	4.9	4.9*	VII *	KRK
1937	06	26	19	19	31	34.7	32.7	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1940	07	24	22	15	27	34.5	34.0	80	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1941	01	20	03	37	07	35.0	34.0	100	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1948	04	30	14	50	42	35.9	31.1	100	5.2*	5.1*	5.3	5.1*	VII *	KRK
1951	08	08	08	40	35	35.9	31.1	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1952	10	15	17	50	44	34.7	33.1	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1953	**09**	**10**	**04**	**05**		**35.0**	**32.5**		**5.8***	**6.5**		**5.5***	**VII ***	
1959	06	13	12	01	50	34.9	32.3		5.3*	5.3*	5.5 MAT	5.1*	VII *	ISS
1961	09	15	01	46	10	34.9	33.8	36	5.5*	5.8*	6.0 UPP	5.3*	VII *	PDE
1963	09	12	08	18	58	34.9	32.2	55	5.0	4.6*		4.9*	VII *	PDE
1964	06	28	11	15	22	34.6	32.2	81	4.7	4.2*		4.7*	VII *	PDE
1964	09	23	01	41	01	34.3	32.6	61	4.7	4.2*		4.7*	VII *	PDE
1965	01	25	12	18	33	34.5	32.8	17	4.8	4.3*		4.8*	VII *	PDE
1965	03	17	03	52	48	34.9	32.5	39	4.6	4.0*		4.6*	VI *	PDE
1967	04	17	21	37	53	34.6	32.9	18	4.8	4.3*		4.8*	VII *	PDE
1967	04	17	22	05	18	34.5	33.0	39	4.6	4.0*		4.6*	VI *	PDE
1967	04	18	20	27	57	34.4	32.8	23	4.6	4.0*		4.6*	VI *	PDE
1967	06	15	14	56	06	34.1	32.5	62	5.0	4.6*		4.9*	VII *	PDE
1968	09	17	21	13		35.3	31.2		4.9*	4.3*		4.5	VI *	KRK
1968	11	06	13	41	05	35.2	32.8	54	4.8	4.3*		4.8*	VII *	PDE
1970	07	01	15	50	40	35.3	31.2	36	4.8	4.3*		4.8*	VII *	PDE
1970	09	09	00	12	42	34.8	32.7	33	4.6	4.0*		4.6*	VI *	PDE
1975	01	28	21	12	33	34.6	33.7	45	4.7	4.2*		4.7*	VII *	PDE
1976	01	12	17	50	24	34.3	32.5	33	5.1	4.8*		5.0*	VII *	PDE
1976	01	12	20	19	57	34.4	32.5	20	5.0	5.0		4.9*	VII *	PDE
1976	01	26	22	44	60	35.9	31.2	77	4.6	4.0*		4.6*	VI *	PDE
1978	01	30	07	52	48	34.7	33.8	37	4.5	4.3		4.5*	VI *	PDE
1982	05	20	03	28	03	35.1	33.8	59	4.6	4.0*		4.6*	VI *	PDE
1982	12	19	19	17	33	34.9	34.0	33	4.8	4.3*		4.8*	VII *	PDE
1983	09	24	16	40	06	34.6	33.3	33	4.6	3.9		4.5 JER	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 373 DEAD SEA REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1903	03	29	22	30		32.2	35.5		5.5*	5.7		5.3*	VII •	
1903	03	29	23	05		31.8	35.2	15	5.3*	5.3*	5.5	5.1*	VIII	KRK
1924	02	27	20	24	20	32.7	36.2	20	5.1*	4.9*	5.1	5.0*	VIII	KRK
1924	09	13	21	46	44	30.8	35.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1927	07	11	13	04		32.2	35.3		5.6*	6.0		5.4*	VII •	
1927	07	17	08	06	47	32.0	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1927	09	24	00	28	14	30.4	34.1	33	5.0*	4.6*	4.8	4.9*	VIII	KRK
1928	01	18	05	55	13	32.0	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1928	02	22	17	50	55	32.1	35.5	33	5.2*	5.0*	5.2	5.0*	IX	KRK
1928	11	04	03	34	37	32.0	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1930	05	21	10	45	25	32.0	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1937	10	12	09	58	34	31.5	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1943	09	10				32.5	35.3	33	5.3*	5.2*		5.1*	VIII	KRK
1954	09	13	21	46	32	30.8	35.5	33	5.1*	4.8*	5.0	5.0*	VI	KRK
1956	12	18	17	53		30.5	35.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	PDE
1979	04	23	13	01	59	31.2	35.5	33	5.1	4.3		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 374 JORDAN/SYRIA REGION

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1907	06	22	15	32		33.7	35.4	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1907	07	22	17	40		33.7	35.4	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1910	07	10	19	24	42	33.9	36.2	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1923	12	21	14	11	29	36.2	36.0	33	5.1*	4.7*	4.9	4.9*	VI	KRK
1928	08	23	06	15	55	36.5	36.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	05	16	01	22	34	36.5	36.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1929	08	04	15	12	36	36.5	36.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1930	09	14	02	24		34.6	36.6	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1930	12	17	02	02	28	36.1	36.2	33	4.7*	3.9*	4.1	4.7*	VI	KRK
1943	09	10	06	52	22	32.8	37.0	5	5.1*	4.8*	5.0	5.0*	VIII	KRK
1947	09	15	00	40		33.0	35.5	33	4.8*	4.0*	4.2	4.7*	VI	KRK
1951	04	08	21	38		36.6	36.1		5.6*	6.0		5.4*	VII •	
1951	07	12	06	51	08	36.6	36.3	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1951	08	05	15	12	09	34.2	36.0	33	5.0*	4.5*	4.7	4.9*	VII	KRK
~~1953~~	~~07~~	~~09~~	~~21~~	~~23~~	~~48~~	~~30.0~~	~~42.5~~		~~5.8*~~	~~6.4*~~	~~6.6 PAS~~	~~5.5*~~	~~VII *~~	~~PDE~~
1954	09	13	21	46	50	32.2	37.5	33	5.0*	4.6*	4.8	4.9*	VI	KRK
1956	03	16	19	32		35.5	35.5		5.5*	5.8		5.3*	VII *	
1956	03	16	19	32		33.6	35.6	16	5.6*	6.0		5.4*	VII *	
1956	03	16	19	43	28	33.8	35.6		5.3*	5.3*	5.5 UPP	5.1*	VI	ISS
1956	07	16	00	21	46	35.7	36.0	100	4.9*	4.3*	4.5	4.8*	VII *	ANK
1964	04	23	14	23	43	36.9	37.9	57	4.8	4.3*		4.8*	VII *	PDE
1968	03	26	19	37	34	34.2	35.5	33	4.9	4.5*		4.8*	VII *	PDE
1968	09	23	21	27	22	36.5	40.7	49	4.9*	4.3*	4.5	4.8*	VII *	ANK
1969	09	04	17	18	49	35.3	39.1	33	4.7	4.2*		4.7*	VII *	PDE
1970	10	05	14	53	12	35.1	38.9	33	4.8	4.3*		4.8*	VII *	PDE
1971	04	16	21	27	43	33.7	35.5	13	4.7	4.2*		4.7*	VI	PDE
1974	06	12	10	19	51	34.0	37.7	33	4.6	4.0*		4.6*	VI *	PDE
1975	01	01	00	29	57	36.6	36.5	15	4.8	4.3*		4.8*	VII •	PDE
1980	01	02	12	52	24	36.6	36.5	11	4.7	4.2*		4.7*	VII *	PDE
1983	06	03	02	04	39	33.9	35.8	10	4.7	4.2*		4.7*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 375 IRAQ

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1918	04	25	02	22	35	34.5	41.8	33	5.4*	5.5*	5.7	5.2*	VII *	KRK
1919	08	31	02	32	48	34.5	41.8	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1926	04	02	11	56		35.0	44.0	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1930	04	03	12	08	40	32.5	43.7	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1931	10	13	07	36	42	35.6	43.2	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1935	11	02	18	18	14	36.5	42.5	33	5.0*	4.6*	4.8	4.9*	VII *	KRK
1944	07	17	10	53	46	35.8	43.0	33	5.5*	5.7*	5.9	5.2*	VII *	KRK
1946	03	02	20	46	58	35.3	44.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1948	04	26	07	24	13	35.3	44.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1949	09	02	01	47	33	35.3	44.6	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1958	05	05	05	21	30	35.5	44.7		5.3*	5.3*	5.5 UPP	5.1*	VII *	ISS
1959	08	29	10	40	16	35.5	41.3	50	5.0*	4.6*	4.8	4.9*	VII *	ANK
1960	03	19	14	53	53	36.6	41.3	10	4.9*	4.3*	4.5	4.8*	VII *	ANK
1962	08	01	16	38	57	36.2	41.4	20	4.9*	4.3*	4.5	4.8*	VII *	ANK
1963	04	16	18	47	08	35.9	44.3	60	5.2	5.0*		5.0*	VII *	PDE
1965	05	26	13	58	03	35.3	44.6	54	4.7	4.2*		4.7*	VII *	PDE
1967	03	20	22	30	47	35.9	44.1	52	5.1	4.8*		5.0*	VII *	PDE
1967	04	28	16	39	47	33.6	44.4	33	4.6	4.0*		4.6*	VI *	PDE
1968	08	10	04	27	60	36.9	43.0	29	5.0	4.6*		4.9*	VII *	PDE
1971	07	01	12	13	28	36.4	43.4	16	5.1	4.8*		5.0*	VII *	PDE
1975	01	14	22	07	53	35.4	44.8	58	5.1	4.8*		5.0*	VII *	PDE
1980	12	15	22	48	18	35.9	44.6	70	5.0	4.6*		4.9*	VII *	PDE
1980	12	18	14	31	33	35.8	44.4	33	4.8	4.3*		4.8*	VII *	PDE
1980	12	19	13	42	09	35.8	44.4	61	4.9	4.5*		4.8*	VII *	PDE
1982	04	21	13	40	06	35.8	44.4	56	4.6	4.0*		4.6*	VI *	PDE
1983	01	07	07	25	57	37.0	41.5	33	4.8	4.3*		4.8*	VII *	PDE
1983	05	09	02	06	21	35.3	44.6	33	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 401 NEAR COAST OF LIBYA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1935	04	19	15	23	22	31.5	15.3	60	6.0*	6.9*	7.1	5.6*	VII *	BDA
1935	04	19	16	18	41	31.5	15.0	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1935	04	19	17	36	54	31.2	15.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1935	04	19	17	50		31.2	15.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1935	04	19	17	57	47	30.8	15.5	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1935	04	19	20	31	30	31.0	15.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1935	04	20	05	10	51	31.0	15.7		5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1935	04	29	19	27	14	30.8	15.5	33	4.9*	4.4*	4.6	4.8*	VII *	KRK
1936	06	13	00	32	39	32.7	22.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	01	20	01	24	21	31.8	16.8	33	5.2*	5.1*	5.3	5.1*	VII *	KRK
1939	01	20	14	22	30	31.8	16.8	33	5.2*	5.0*	5.2	5.0*	VII *	KRK
1939	01	23	02	22	46	31.5	16.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1939	02	02	23	50	44	31.8	16.8	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1941	03	04	23	45	10	30.7	15.7		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1963	02	21	17	14		32.7	21.0		4.9*	4.4*		4.6	VI *	KRK
1963	02	21	17	24	36	32.6	21.0	5	5.0	4.6*		4.9*	VII *	PDE
1963	02	21	20	27		32.7	21.1		4.9*	4.4*		4.6	VI *	KRK
1963	05	11	01	10	49	32.8	19.4	33	5.8	5.9*		5.5*	VII *	PDE
1967	01	02	08	19		32.4	22.6		4.9*	4.4*		4.6	VI *	KRK
1972	03	27	13	33	34	32.3	21.6	33	4.6	4.0*		4.6*	VI *	PDE
1972	09	02	14	53	51	31.5	16.3	33	5.0	5.4		4.9*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 415 EASTERN GULF OF ADEN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1923	10	12	23	53	38	13.5	50.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1928	09	18	19	52	37	14.0	52.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1946	09	29	20	22	10	13.0	48.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1950	05	09	06	10	30	12.0	47.3		5.5*	5.7*	5.9 PRA	5.2*	VII *	ISS
1959	01	21	13	57	30	13.6	51.8		5.3*	5.1*	5.4 MAT	5.1*	VII *	SYK
1959	12	21	11	19	15	14.0	51.7		5.8*	6.5*	6.7 PAL	5.5*	VII *	SYK
1961	08	03	00	41	36	14.7	52.5	33	5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1965	06	15	16	41	13	14.0	51.7	33	5.1	4.8*		5.0*	VII *	PDE
1965	06	20	16	31	20	13.3	50.3	35	5.2	5.0*		5.0*	VII *	PDE
1966	04	18	08	14	17	12.9	48.4	33	5.3	5.1*		5.1*	VII *	PDE
1966	09	02	10	41	23	13.2	50.9	34	4.7	4.2*		4.7*	VII *	PDE
1966	09	09	20	42	08	14.7	52.3	38	4.9	4.5*		4.8*	VII *	PDE
1966	10	15	06	54	21	13.1	50.5	38	4.6	4.0*		4.6*	VI *	PDE
1967	07	06	18	58	40	13.4	50.8	44	4.9	4.5*		4.8*	VII *	PDE
1967	07	07	01	09	59	13.5	50.8	32	4.8	4.3*		4.8*	VII *	PDE
1967	11	23	08	35	50	14.5	52.1	3	5.9*	6.8*	7.0	5.6*	VII *	BDA
1967	11	25	16	01	46	14.6	52.1	39	4.8	4.3*		4.8*	VII *	PDE
1967	11	27	13	04	16	14.1	52.0	33	5.1	4.8*		5.0*	VII *	PDE
1967	12	11	19	48	43	13.7	51.6	33	5.2	5.0*		5.0*	VII *	PDE
1967	12	11	22	30	18	13.6	51.6	33	5.6	5.6*		5.3*	VII *	PDE
1968	08	06	08	34	42	13.9	51.5	33	4.9	4.5*		4.8*	VII *	PDE
1969	12	14	23	53	56	12.4	48.1	33	4.7	5.2		4.7*	VII *	PDE
1970	06	09	10	33	01	13.3	51.4	33	5.0	4.6*		4.9*	VII *	PDE
1970	07	30	04	58	44	14.3	51.8	33	5.5	6.5	6.6 PAS	5.3*	VII *	PDE
1971	04	15	18	57	24	12.9	48.5	33	5.0	4.6*		4.9*	VII *	PDE
1972	02	04	16	33	18	13.2	49.4	33	4.8	4.3*		4.8*	VII *	PDE
1973	09	27	22	07	17	13.2	50.7	33	5.0	4.6*		4.9*	VII *	PDE
1973	09	28	11	32	23	13.2	50.7	33	5.5	5.4*		5.3*	VII *	PDE
1974	05	20	10	42	06	13.4	50.2	33	5.1	4.8*		5.0*	VII *	PDE
1974	06	15	03	32	48	13.7	50.5	33	5.2	5.0*		5.0*	VII *	PDE
1974	11	01	12	46	36	14.7	52.2	33	4.8	4.3*		4.8*	VII *	PDE
1974	11	25	16	35	45	13.5	51.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	03	29	09	36	21	13.3	50.7	33	5.4	5.6		5.2*	VII *	PDE
1975	05	06	23	29	23	13.3	50.8	33	4.7	4.2*		4.7*	VII *	PDE
1975	07	06	10	38	57	13.2	51.7	33	4.9	4.5*		4.8*	VII *	PDE
1975	07	21	13	27	45	13.7	51.5	33	4.8	5.9		4.8*	VII *	PDE
1976	01	14	10	56	21	13.9	51.7	33	5.1	5.0		5.0*	VII *	PDE
1976	02	10	01	40	51	12.6	48.0	33	4.6	4.0*		4.6*	VI *	PDE
1976	11	09	23	51	17	13.3	49.5	33	4.7	4.2*		4.7*	VII *	PDE
1977	01	26	12	38	35	13.3	51.0	33	4.8	4.6		4.8*	VII *	PDE
1977	08	16	23	22	03	14.7	52.4	33	4.8	4.3*		4.8*	VII *	PDE
1977	12	15	08	02	42	13.1	50.4	33	4.6	4.0*		4.6*	VI *	PDE
1977	12	17	23	57	55	13.1	50.9	33	5.0	4.8		4.9*	VII *	PDE
1978	01	29	17	32	08	13.3	51.2	33	4.9	4.7		4.8*	VII *	PDE
1978	02	11	12	54	22	13.2	50.9	33	5.3	5.3		5.1*	VII *	PDE
1978	03	01	01	58	45	13.2	50.2	33	5.1	4.7		5.0*	VII *	PDE
1978	06	08	19	04	45	13.2	50.1	33	4.6	4.0*		4.6*	VI *	PDE
1978	06	22	21	41	05	12.5	48.0	33	4.7	4.2		4.7*	VII *	PDE
1978	09	14	05	01	41	12.1	47.2	33	4.7	4.2*		4.7*	VII *	PDE
1978	09	14	07	14	17	12.5	47.8	33	4.8	4.3*		4.8*	VII *	PDE
1978	09	14	19	03	45	12.8	47.8	33	4.7	4.2*		4.7*	VII *	PDE
1978	09	15	12	17	51	12.4	47.9	33	5.0	5.0		4.9*	VII *	PDE
1978	11	17	20	34	01	12.7	48.2	33	4.8	4.3*		4.8*	VII *	PDE
1979	09	24	23	41	36	12.7	48.3	10	5.1	4.6		5.0*	VII *	PDE
1979	12	22	15	43	34	13.8	51.6	33	5.1	5.0		5.0*	VII *	PDE
1981	01	19	08	13	50	12.5	47.9	10	4.9	5.0		4.8*	VII *	PDE
1981	04	17	21	54	12	13.7	49.8	10	4.7	4.2*		4.7*	VII *	PDE
1981	07	03	20	58	20	13.2	49.4	10	4.8	4.3*		4.8*	VII *	PDE
1982	01	06	06	09	15	13.2	50.6	10	4.7	4.2		4.7*	VII *	PDE
1982	11	10	05	41	17	13.3	50.4	10	5.1	4.8*		5.0*	VII *	PDE

DATE			TIME			LOCATION		DEPTH	MAGNITUDES				INTENSITY	SOURCE
YEAR	MO	DA	H	M	S	LAT	LONG	Km	m_b	M_s	M_o	M_L	MAX	CODE
1982	11	10	05	45	45	13.3	50.5	10	5.2	5.0*		5.0*	VII *	PDE
1983	09	30	11	24	14	13.2	51.0	10	5.3	3.9		5.1*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 416 SOCOTRA REGION

DATE YEAR MO DA	TIME H M S	LOCATION LAT	LOCATION LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1932 08 14	12 36 08	13.5	56.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1951 07 21	03 22 57	13.9	56.7		5.3*	5.3*	5.5 PRA	5.1*	VII *	ISS
1960 06 07	15 34 49	13.7	57.0		5.0*	4.6*	4.8 PAL	4.9*	VII *	SYK
1972 07 03	05 24 15	13.9	53.6	33	5.0	4.6*		4.9*	VII *	PDE
1975 11 26	00 18 06	13.6	56.7	33	5.4	5.2		5.2*	VII *	PDE
1975 11 26	04 02 48	13.7	56.6	33	4.9	4.5*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1925	02	02	18	44	31	9.0	62.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1926	01	05	10	03	24	11.0	58.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1928	03	19	10	02	06	14.5	53.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	01	01	13	38	18	9.5	62.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	03	16	12	30	52	14.0	54.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	04	28	04	58	44	14.5	53.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	06	24	23	47	04	15.0	59.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1932	06	11	08	32	56	15.0	53.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1935	01	18	02	08	37	14.5	56.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1935	10	20	04	51	30	18.0	60.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1940	10	31	05	21	55	11.5	57.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	09	25	03	45	57	14.5	53.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1946	11	17	22	24	19	11.5	57.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1961	10	25	16	24	21	14.2	56.6	66	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1963	02	13	19	55	37	11.8	57.8	33	6.2	6.6*		5.8*	VIII*	PDE
1963	03	09	02	17	35	21.5	61.9	11	5.1	4.8*		5.0*	VII *	PDE
1963	10	04	13	29	45	18.1	60.1	33	5.3	5.1*		5.1*	VII *	PDE
1963	11	01	07	02	42	14.6	53.6	33	5.1	4.8*		5.0*	VII *	PDE
1964	09	07	11	27	15	15.7	53.3	33	4.6	4.0*		4.6*	VI *	PDE
1965	08	02	04	56	19	14.3	53.9	33	4.9	4.5*		4.8*	VII *	PDE
1966	03	27	01	40	60	14.4	56.7	35	5.1	4.8*		5.0*	VII *	PDE
1966	03	30	04	18	38	21.8	62.2	33	5.5	5.4*		5.3*	VII *	PDE
1966	07	01	17	26	14	14.0	56.9	33	4.9	4.5*		4.8*	VII *	PDE
1966	07	18	09	59	10	13.0	57.5	33	5.0	4.6*		4.9*	VII *	PDE
1966	09	14	00	47	05	14.5	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1966	09	18	11	58	28	13.0	57.5	33	4.7	4.2*		4.7*	VII *	PDE
1966	12	25	05	42	46	14.2	53.7	33	5.2	5.0*		5.0*	VII *	PDE
1966	12	25	05	49	48	14.3	53.5	33	4.8	4.3*		4.8*	VII *	PDE
1967	04	12	19	28	57	14.4	56.6	46	4.7	4.2*		4.7*	VII *	PDE
1967	04	14	18	58	20	14.5	56.6	33	4.7	4.2*		4.7*	VII *	PDE
1967	10	15	06	36	40	14.7	56.4	33	5.1	4.8*		5.0*	VII *	PDE
1967	12	14	02	20	28	14.3	53.7	33	4.9	4.5*		4.8*	VII *	PDE
1968	02	08	10	58	22	14.6	53.9	33	5.2	5.0*		5.0*	VII *	PDE
1968	02	08	12	28	21	14.6	54.0	33	5.4	5.3*		5.2*	VII *	PDE
1968	08	30	22	02	20	14.6	56.3	33	5.2	5.0*		5.0*	VII *	PDE
1968	11	04	09	02	32	12.2	58.0	33	5.1	4.8*		5.0*	VII *	PDE
1969	01	08	06	03	17	17.4	60.3	33	4.7	4.2*		4.7*	VII *	PDE
1969	04	22	22	34	38	13.0	58.2	33	5.7	5.8*		5.4*	VII *	PDE
1969	05	11	00	18	42	14.3	56.7	32	5.1	4.8*		5.0*	VII *	PDE
1969	12	05	11	38	40	14.5	53.3	33	4.8	4.3*		4.8*	VII *	PDE
1970	09	05	11	38	46	14.8	53.8	33	4.9	4.5*		4.8*	VII *	PDE
1971	03	19	13	27	12	14.6	56.2	33	5.3	5.1*		5.1*	VII *	PDE
1972	05	24	10	12	49	13.1	57.6	33	4.7	4.2*		4.7*	VII *	PDE
1972	08	06	08	42	33	14.7	55.6	33	4.7	4.2*		4.7*	VII *	PDE
1972	08	06	15	36	55	14.6	55.8	33	4.7	4.2*		4.7*	VII *	PDE
1972	08	06	15	53	56	14.7	55.6	33	5.2	5.0*		5.0*	VII *	PDE
1972	08	06	16	06	09	14.8	55.6	33	5.3	5.1*		5.1*	VII *	PDE
1972	08	06	16	44	38	14.4	55.6	33	5.1	4.8*		5.0*	VII *	PDE
1972	09	20	20	44	53	14.4	56.6	33	5.3	4.7		5.1*	VII *	PDE
1972	09	20	20	52	36	14.3	56.5	33	4.9	4.5*		4.8*	VII *	PDE
1972	11	28	10	19	28	14.8	53.8	33	4.8	4.3*		4.8*	VII *	PDE
1973	01	08	04	36	26	13.6	57.3	33	5.0	4.6*		4.9*	VII *	PDE
1973	05	13	11	19	37	14.8	55.7	11	5.0	4.6*		4.9*	VII *	PDE
1973	10	27	15	41	49	14.4	53.3	33	4.7	4.2*		4.7*	VII *	PDE
1973	12	06	07	53	45	14.3	53.6	33	4.7	4.2*		4.7*	VII *	PDE
1974	02	03	06	27	23	14.5	56.1	33	4.8	4.3*		4.8*	VII *	PDE
1974	02	03	08	54	09	14.5	55.7	33	5.0	4.6*		4.9*	VII *	PDE
1975	03	26	16	19	20	19.8	68.4	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	19	13	45	50	14.4	56.5	33	5.3	5.0		5.1*	VII *	PDE
1975	04	19	17	10	55	14.5	56.5	33	5.0	4.6*		4.9*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1975	04	19	17	21	35	14.6	56.3	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	19	17	26	43	14.5	56.4	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	19	17	33	27	14.6	56.2	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	19	17	38	39	14.5	56.2	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	17	45	59	14.5	56.6	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	19	17	50	53	14.5	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	19	18	05	16	14.5	56.0	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	19	18	09	28	14.5	56.3	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	19	18	16	12	14.5	56.3	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	18	43	59	14.5	56.4	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	18	49	45	14.6	56.1	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	19	09	27	14.5	56.2	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	19	16	46	14.2	56.2	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	19	20	15	44	14.4	56.4	33	5.4	5.3*		5.2*	VII *	PDE
1975	04	19	21	21	14	14.4	56.4	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	19	21	29	51	14.4	56.1	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	19	21	57	27	14.3	56.2	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	19	23	29	13	14.5	56.4	68	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	00	59	51	14.3	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	02	06	33	14.1	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	03	41	07	14.2	56.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	05	09	42	14.4	56.6	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	20	08	56	50	14.5	56.5	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	20	09	55	06	14.6	56.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	14	39	09	14.5	56.3	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	20	21	22	47	14.6	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	20	22	42	44	14.6	56.2	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	21	02	25	57	14.4	56.5	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	21	03	54	18	14.4	56.4	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	21	11	52	16	14.6	56.1	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	21	15	07	23	14.4	56.0	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	21	21	04	37	14.4	56.2	33	4.6	4.0*		4.6*	VI *	PDE
1975	04	22	00	34	50	14.6	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	22	03	38	57	14.7	54.9	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	22	06	35	37	14.7	54.9	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	22	08	31	21	14.6	56.3	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	22	15	23	05	14.8	56.9	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	22	18	25	38	14.5	56.5	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	22	21	35	26	14.5	56.6	33	5.2	4.7		5.0*	VII *	PDE
1975	04	22	22	17	50	14.4	56.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	22	23	27	13	14.4	56.5	33	4.8	4.7		4.8*	VII *	PDE
1975	04	23	05	12	49	14.5	56.7	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	23	08	16	32	14.6	56.5	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	23	08	17	36	14.3	56.5	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	23	10	08	02	14.5	56.7	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	23	12	05	32	14.4	56.7	33	4.9	4.5*		4.8*	VII *	PDE
1975	04	23	15	02	11	14.6	56.3	33	5.2	5.0*		5.0*	VII *	PDE
1975	04	23	15	12	04	14.5	56.7	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	24	00	05	42	14.4	56.4	33	5.0	4.6*		4.9*	VII *	PDE
1975	04	24	05	30	26	14.5	56.5	33	4.7	4.2*		4.7*	VII *	PDE
1975	04	26	19	36	13	14.6	56.6	23	4.8	4.3*		4.8*	VII *	PDE
1975	04	29	12	03	10	14.6	56.5	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	30	22	08	48	14.7	56.1	33	5.1	4.8*		5.0*	VII *	PDE
1975	04	30	23	40	31	14.6	56.6	33	5.3	5.0		5.1*	VII *	PDE
1975	05	01	02	37	43	14.6	56.4	33	5.1	4.8*		5.0*	VII *	PDE
1975	05	19	08	00	00	21.1	61.8	33	5.0	4.6*		4.9*	VII *	PDE
1975	05	24	21	58	47	14.4	56.2	33	4.8	4.3*		4.8*	VII *	PDE
1975	05	25	01	32	36	14.3	56.3	33	4.9	4.5*		4.8*	VII *	PDE
1975	05	25	20	30	11	14.4	56.2	33	5.1	4.8*		5.0*	VII *	PDE
1976	02	05	08	14	05	14.1	53.3	33	5.0	4.6*		4.9*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1976	05	06	01	18	15	17.1	60.0	33	4.9	4.5*		4.8*	VII *	PDE
1976	06	23	08	26	48	13.9	57.1	33	5.0	4.6*		4.9*	VII *	PDE
1977	01	11	14	51	05	12.9	57.5	33	5.1	4.8*		5.0*	VII *	PDE
1977	01	27	11	41	01	12.2	58.1	33	5.1	4.8*		5.0*	VII *	PDE
1977	02	11	16	45	57	14.7	54.6	33	4.7	4.2*		4.7*	VII *	PDE
1977	02	28	08	43	56	14.9	55.0	33	5.1	4.7		5.0*	VII *	PDE
1977	02	28	17	35	07	14.8	55.0	33	5.1	4.6		5.0*	VII *	PDE
1977	06	10	05	40	07	11.6	57.7	33	5.1	4.8*		5.0*	VII *	PDE
1977	10	04	06	18	59	14.3	53.7	33	4.6	4.0*		4.6*	VI *	PDE
1978	05	30	20	17	15	11.0	57.3	33	5.3	5.5		5.1*	VII *	PDE
1979	03	29	10	05	10	14.4	53.6	10	4.8	4.6		4.8*	VII *	PDE
1979	07	08	04	09	10	14.6	53.8	34	4.8	5.2		4.8*	VII *	PDE
1979	10	28	22	44	05	12.1	57.8	10	4.6	4.0*		4.6*	VI *	PDE
1979	11	12	23	34	32	14.8	53.4	10	4.7	4.2*		4.7*	VII *	PDE
1980	01	26	01	00	50	13.8	57.1	10	5.1	4.7		5.0*	VII *	PDE
1980	04	04	04	14	46	14.4	53.4	10	4.9	4.5*		4.8*	VII *	PDE
1980	04	20	02	37	49	11.7	57.7	10	5.7	6.2		5.4*	VII *	PDE
1980	04	28	02	48	18	11.8	57.7	10	4.6	4.2		4.6*	VI *	PDE
1980	05	22	01	49	28	11.8	57.8	10	4.6	3.9		4.6*	VI *	PDE
1980	08	31	16	30	56	11.3	57.5	10	5.3	4.7		5.1*	VII *	PDE
1980	10	23	08	43	36	14.7	54.2	33	4.8	4.3*		4.8*	VII *	PDE
1981	03	26	02	27	03	19.1	60.7	10	4.8	4.3*		4.8*	VII *	PDE
1981	04	17	09	28	13	13.1	57.9	10	4.7	4.2		4.7*	VII *	PDE
1981	11	09	00	06	21	9.9	62.9	10	4.8	4.3*		4.8*	VII *	PDE
1981	12	05	18	46	51	14.6	58.1	10	5.6	5.4		5.3*	VII *	PDE
1981	12	05	18	50	24	14.7	57.9	10	5.3	5.1*		5.1*	VII *	PDE
1981	12	09	18	46	47	12.8	58.1	10	4.6	4.0*		4.6*	VI *	PDE
1982	01	29	01	12	47	12.9	57.3	10	4.8	4.3*		4.8*	VII *	PDE
1982	05	14	14	18	26	14.3	53.5	10	4.9	4.5*		4.8*	VII *	PDE
1982	05	14	14	24	02	14.3	53.8	10	5.0	4.6		4.9*	VII *	PDE
1982	05	14	14	42	57	14.5	53.7	10	5.2	5.1		5.0*	VII *	PDE
1983	02	02	14	04	59	14.0	56.8	10	5.0	4.6*		4.9*	VII *	PDE
1983	03	15	12	23	46	17.0	59.9	10	5.2	5.0*		5.0*	VII *	PDE
1983	03	20	19	36	42	13.8	57.3	10	4.7	4.2*		4.7*	VII *	PDE
1983	04	08	02	28	26	11.4	57.5	10	5.9	6.3	6.3 BRK	5.6*	VII *	PDE
1983	04	08	03	18	33	11.5	57.6	10	5.0	4.6*		4.9*	VII *	PDE
1983	04	08	22	41	12	11.4	57.8	10	4.7	4.2*		4.7*	VII *	PDE
1983	05	07	17	49	59	11.7	57.7	10	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 419 NORTHEASTERN SOMALIA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1979	05	26	03	19	13	3.8	47.3	33	4.9	4.5*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 552 LIBYA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1915	08	13	00	28	42	28.5	20.5	33	4.7*	3.9*	4.1	4.7*	VI	KRK
1919	01	04				28.4	16.6	33	4.8*	4.2*	4.4	4.8*	VI	KRK
1952	03	28	21	20	36	28.0	21.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1965	03	09	22	35		29.3	23.8	28	5.0*	4.6*		4.8	VII *	KRK

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 553 ARAB REPUBLIC OF EGYPT

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1914	10	04	02	07		28.0	30.0	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1920	10	01	02	10		29.4	31.0	33	4.9*	4.4*	4.6	4.8*	VII	KRK
1951	05	28	14	16	21	31.8	27.0	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1954	07	24	00	52	36	31.5	30.0	33	4.9*	4.3*	4.5	4.8*	VII *	KRK
1955	11	11	18	27	35	27.5	27.2	33	5.0*	4.5*	4.7	4.9*	VII *	KRK
1955	11	12	05	32	14	25.3	34.5	33	5.3*	5.3*	5.5	5.1*	VII *	KRK
1969	03	24	11	54	16	27.5	33.8	21	5.2	5.0*		5.0*	VI	PDE
1969	03	24	12	50	51	27.6	33.8	33	4.8	4.3*		4.8*	V	PDE
1969	03	27	06	15	30	27.5	33.9	33	4.7	4.2*		4.7*	V	PDE
1969	**03**	**31**	**07**	**15**		**27.6**	**33.9**	**33**	**5.7***	**6.1**		**5.4***	**VII ***	
1969	03	31	09	01	13	28.4	34.4	33	4.9	4.5*		4.8*	VII *	PDE
1969	04	08	10	31	52	27.5	33.7	15	5.2	5.0*		5.0*	VII *	PDE
1969	04	13	16	15	11	27.6	33.8	16	4.8	4.3*		4.8*	VII *	PDE
1969	04	14	13	43	55	27.1	33.3	16	4.9	4.5*		4.8*	VII *	PDE
1969	04	16	08	12	55	27.6	34.0	33	5.0	4.6*		4.9*	VII *	PDE
1969	04	23	13	37	21	27.6	33.9	28	5.0	4.6*		4.9*	VII *	PDE
1969	05	25	11	32	39	27.6	34.0	33	4.8	4.3*		4.8*	VII *	PDE
1969	08	09	13	28	32	27.7	33.8	33	4.7	4.2*		4.7*	VII *	PDE
1969	12	30	05	10	03	27.5	33.9	16	4.9	4.5*		4.8*	VII *	PDE
1970	04	28	03	20	35	27.7	33.6	5	4.9	4.5*		4.8*	VII *	PDE
1970	12	19	12	15	34	27.5	33.8	20	4.6	4.0*		4.6*	VI *	PDE
1970	12	19	22	44	09	27.5	33.9	23	4.6	4.0*		4.6*	VI *	PDE
1971	07	08	23	40	57	27.6	33.8	32	4.8	4.3*		4.8*	VII *	PDE
1972	01	12	08	15	46	27.5	33.7	54	5.1	4.8*		5.0*	VII *	PDE
1972	06	28	09	49	35	27.6	33.8	15	5.6	5.5		5.3*	VI	PDE
1974	04	29	20	04	40	30.5	31.7	33	4.9	4.5*		5.4 ATH	VII *	PDE
1978	12	09	07	12	52	24.0	26.4	10	5.3	4.2		5.1*	VII *	PDE
1981	11	14	09	05	29	23.7	32.6	10	5.1	5.3		5.0*	VIII	PDE
1982	08	20	12	57	33	23.6	32.6	10	4.7	4.2*		4.7*	VII *	PDE
1983	02	03	13	46	02	29.2	34.8	10	4.9	4.5*		5.1 JER	VII *	PDE
1983	02	03	23	30	25	29.3	34.8	10	4.8	4.3*		5.1 JER	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 554 RED SEA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1913	02	27	16	22	54	17.5	39.0		5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1952	03	22	04	52	33	27.2	34.5	33	5.1*	4.8*	5.0	5.0*	VII *	KRK
1967	03	11	19	33	48	19.6	39.0	33	4.9	4.5*		4.8*	VII *	PDE
1967	03	11	19	38	22	19.5	38.8	33	5.2	5.0*		5.0*	VII *	PDE
1967	03	12	10	01	49	19.8	38.9	33	5.8	5.9*		5.5*	VII *	PDE
1967	03	12	18	35	22	19.4	38.8	33	6.1	6.4*		5.7*	VIII*	PDE
1967	03	12	21	44	33	19.6	38.7	33	6.1	6.4*		5.7*	VIII*	PDE
1967	03	13	07	28	05	19.6	38.7	33	5.8	5.9*		5.5*	VII *	PDE
1967	03	13	08	10	55	19.6	38.6	15	5.0	4.6*		4.9*	VII *	PDE
1967	03	13	11	46	30	19.6	38.8	33	5.0	4.6*		4.9*	VII *	PDE
1967	03	13	19	22	20	19.7	38.7	31	5.7	5.8*	6.3 UPP	5.4*	VII *	PDE
1967	03	14	21	52	08	19.6	38.8	33	5.6	5.6*		5.3*	VII *	PDE
1967	03	16	02	41	38	19.7	39.0	33	5.1	4.8*		5.0*	VII *	PDE
1967	03	16	03	11	59	19.4	38.8	33	5.4	5.3*		5.2*	VII *	PDE
1967	03	16	14	45	13	19.7	38.8	33	5.1	4.8*		5.0*	VII *	PDE
1967	03	16	16	00	16	19.5	38.7	33	6.2	6.6*		5.8*	VIII*	PDE
1967	03	21	23	39	24	19.7	39.2	33	6.1	6.4*		5.7*	VIII*	PDE
1967	03	22	22	59	51	19.6	38.6	33	5.6	5.6*		5.3*	VII *	PDE
1967	03	24	01	57	49	20.2	38.3	33	5.0	4.6*		4.9*	VII *	PDE
1967	03	24	06	38	09	19.9	38.5	33	5.5	5.4*		5.3*	VII *	PDE
1967	03	24	12	34	31	20.1	38.7	33	4.9	4.5*		4.8*	VII *	PDE
1967	03	27	19	53	43	20.0	38.5	33	5.1	4.8*		5.0*	VII *	PDE
1967	**03**	**28**	**02**	**41**		**19.9**	**38.7**	**27**	**6.2***	**7.4**		**5.8***	**VIII***	
1967	03	31	03	18	24	20.0	38.4	33	4.9	4.5*		4.8*	VII *	PDE
1967	04	03	07	38	30	20.1	38.4	34	5.2	5.0*		5.0*	VII *	PDE
1967	04	15	16	59	07	20.7	38.6	33	4.9	4.5*		4.8*	VII *	PDE
1967	05	17	17	50	39	19.7	38.7	33	5.4	5.3*	5.8 UPP	5.2*	VII *	PDE
1967	07	14	03	11	28	19.8	38.9	33	4.7	4.2*		4.7*	VII *	PDE
1969	03	31	11	29	60	27.6	34.1	24	4.6	4.0*		4.6*	VI *	PDE
1969	03	31	21	44	27	27.5	34.0	6	5.0	4.6*		4.9*	VII *	PDE
1969	03	31	22	40	47	27.4	34.1	33	4.7	4.2*		4.7*	VII *	PDE
1969	04	04	12	18	47	27.7	34.1	33	4.7	4.2*		4.7*	VII *	PDE
1969	04	17	08	01	04	27.6	34.0	33	4.8	4.3*		4.8*	VII *	PDE
1969	05	10	09	27	57	27.5	34.2	33	4.8	4.3*		4.8*	VII *	PDE
1969	09	26	04	54	36	16.4	41.0	25	5.1	5.3		5.0*	VII *	PDE
1974	04	17	18	27	34	17.3	40.4	33	5.0	5.1		4.9*	VII *	PDE
1974	04	26	18	08	17	17.1	40.4	33	4.8	4.3*		4.8*	VII *	PDE
1975	06	29	15	01	16	19.0	39.5	33	4.8	4.3*		4.8*	VII *	PDE
1975	06	29	21	45	59	18.7	39.8	33	4.8	4.3*		4.8*	VII *	PDE
1976	11	07	05	53	08	15.8	41.4	34	4.8	4.3*		4.8*	VII *	PDE
1976	11	07	20	21	47	16.0	41.5	33	4.7	4.2*		4.7*	VII *	PDE
1976	11	16	12	53	34	15.9	41.9	33	4.9	3.9		4.8*	VII *	PDE
1976	12	01	05	03	39	15.9	41.7	33	4.8	4.3*		4.8*	VII *	PDE
1977	12	28	02	45	37	16.7	40.3	33	5.9	6.6	6.8 PAS	5.6*	VII *	PDE
1978	01	17	15	00	27	16.5	40.3	10	5.2	5.0		5.0*	VII *	PDE
1978	02	21	22	04	42	16.5	40.4	33	4.7	4.2*		4.7*	VII *	PDE
1978	03	25	02	55	04	16.5	40.3	10	5.0	4.6*		4.9*	VII *	PDE
1979	05	13	20	48	00	18.8	39.3	10	4.8	4.3*		4.8*	VII *	PDE
1979	07	17	17	06	58	17.4	40.1	10	5.2	4.4		5.0*	VII *	PDE
1979	08	15	02	20	43	15.4	41.7	10	4.7	4.2*		4.7*	VII *	PDE
1980	01	14	04	10	54	16.5	40.3	10	5.3	5.7		5.1*	VII *	PDE
1980	01	14	12	28	23	16.5	40.2	10	5.3	5.1		5.1*	VII *	PDE
1980	01	14	12	57	15	16.3	40.2	10	4.7	4.2*		4.7*	VII *	PDE
1980	01	26	06	15	30	16.4	40.1	10	4.6	4.0*		4.6*	VI *	PDE
1980	03	05	03	12	05	16.6	40.2	10	4.9	4.5*		4.8*	VII *	PDE
1980	07	16	23	14	57	17.2	40.4	10	4.8	4.3*		4.8*	VII *	PDE
1980	07	17	00	08	19	16.6	40.5	10	4.6	4.0*		4.6*	VI *	PDE
1982	03	23	10	48	28	28.0	34.4	33	4.7	4.2		4.7*	VII *	PDE
1982	10	14	13	40	23	26.9	34.8	10	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 555 WESTERN ARABIAN PENINSULA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1930	10	27	23	28	41	12.5	43.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	01	11	08	31	56	17.0	43.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1941	02	04	09	17	44	16.0	43.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1941	03	19	01	31	52	12.0	43.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1958	05	24	23	53	38	12.1	43.6		5.3*	5.3*	5.5 PAL	5.1*	VII *	SYK
1958	05	25	02	53	48	12.1	43.7		5.1*	4.8*	5.0 PAL	5.0*	VII *	SYK
1960	08	08	12	28	08	12.1	44.5		5.3*	5.2*	5.4 PAL	5.1*	VII *	SYK
1961	06	20	03	21	34	12.2	44.2	33	5.6*	6.0*	6.3 MAT	5.4*	VII *	PDE
1966	01	21	12	39	43	12.1	43.8	33	4.7	4.2*		4.7*	VII *	PDE
1975	12	14	23	16	48	14.6	42.2	33	5.3	5.1*		5.1*	VII *	PDE
1975	12	14	23	27	26	14.7	42.3	33	5.3	5.1*		5.1*	VII *	PDE
1979	05	25	17	10	57	25.2	36.5	10	4.7	4.2*		4.7*	VII *	PDE
1982	**12**	**13**	**09**	**13**		**14.7**	**44.3**	**10**	**5.5***	**5.7**		**5.3***	**VII ***	
1982	12	13	17	57	10	14.7	44.1	5	4.6	4.0*		4.6*	VI *	PDE
1982	12	21	10	05	02	14.6	44.6	5	4.7	4.2*		4.7*	VII *	PDE
1982	12	29	23	53	15	14.6	44.5	5	5.3	5.0		5.1*	VII *	PDE
1983	01	08	23	51	54	14.7	44.4	5	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 557 SUDAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1915	05	21	04	18	06	6.0	31.0		5.8*	6.4*	6.6 PAS	5.5*	VII *	G-R
1938	05	12	21	31	35	18.5	37.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1966	10	09	06	48	42	12.6	30.8	22	5.0	4.6*		4.9*	VII *	PDE
1982	10	15	08	37	54	4.7	31.7	10	5.1	4.8*		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1906	08	25	13	47	36	9.0	39.0		5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1913	03	27	03	13		16.5	39.0		5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1913	09	16	11	56	42	6.0	36.5		5.6*	6.0*	6.2 PAS	5.3*	VII *	G-R
1915	09	23	08	14	48	16.0	39.0		5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1921	**08**	**14**	**13**	**15**		**15.5**	**40.5**		**5.5***	**5.7**		**5.3***	**VII ●**	
1921	09	21	11	01	31	14.0	39.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1928	10	04	18	22	58	7.0	38.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1929	**01**	**22**	**14**	**42**		**11.5**	**43.0**		**5.3***	**5.2**		**5.1***	**VII ●**	
1929	05	18	01	02	12	11.5	41.5		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1937	11	30	12	57	46	5.0	36.0		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1938	09	27	02	31	49	11.0	41.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1938	10	20	13	14	58	10.0	39.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1938	10	23	02	25	14	10.0	39.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1942	11	18	12	01	20	12.0	40.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1944	09	06	13	27	55	6.0	38.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1945	10	28	00	17	10	11.0	42.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1954	06	30	13	26	50	7.0	37.0		5.5*	5.8*	6.0 UPP	5.3*	VII *	PDE
1957	04	12	15	58	44	11.5	43.0		5.1*	4.8*	5.0 PAL	5.0*	VI	SYK
1960	07	14	18	39	36	7.2	38.5		5.6*	6.1*	6.3 LWI	5.4*	VII *	SYK
1961	03	11	08	41	00	11.2	43.3	18	5.5*	5.8*	6.0 QUE	5.3*	VII	PDE
1961	05	29	04	59	40	10.5	39.5	33	5.1*	4.8*	5.0 MOS	5.0*	VII *	BCI
1961	05	29	10	52	02	10.4	39.9	33	5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1961	05	29	19	24	05	10.6	39.9	33	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1961	**06**	**01**	**23**	**29**		**10.4**	**39.9**	**33**	**5.9***	**6.6**		**5.5***	**VII ●**	
1961	06	02	04	51	15	10.3	39.8	33	5.7*	6.2*	6.4 PAS	5.4*	VII *	PDE
1961	06	02	05	44	52	10.4	39.8	31	5.4*	5.5*	5.7 KEW	5.2*	VII *	PDE
1961	06	02	07	02	50	10.0	40.0	33	5.2*	5.0*	5.2 UPP	5.0*	VII *	PDE
1961	06	03	15	23	16	9.8	39.6	33	5.4*	5.4*	5.6 MAT	5.2*	VII *	PDE
1961	06	14	20	32	22	10.5	39.9	33	5.4*	5.5*	5.7 UPP	5.2*	VII *	PDE
1963	10	05	14	57	47	11.6	42.8	33	5.3	5.1*		5.1*	VII *	PDE
1964	07	03	19	18	34	11.0	39.3	60	5.0	4.6*		4.9*	VII *	PDE
1965	06	07	13	43	58	11.3	41.6	57	5.1	4.8*		5.0*	VII *	PDE
1966	04	09	19	11	11	14.5	40.6	33	4.7	4.2*		4.7*	VII *	PDE
1967	05	19	15	52	33	14.6	40.2	2	5.0	4.6*		4.9*	VII *	PDE
1967	09	18	02	02	60	15.7	39.0	33	4.8	4.3*		4.8*	VII *	PDE
1967	11	16	02	22	03	15.1	39.8	33	5.1	4.8*		5.0*	VII *	PDE
1968	01	23	19	18	13	8.7	37.7	33	5.1	4.8*		5.0*	VII *	PDE
1968	05	23	23	36	06	14.7	40.2	33	4.8	4.3*		4.8*	VII *	PDE
1969	**03**	**29**	**09**	**15**		**11.9**	**41.1**	**35**	**5.6***	**5.9**		**5.3***	**VII ***	
1969	03	29	11	04	48	12.0	41.3	4	5.6	5.6*		5.3*	VII *	PDE
1969	03	29	11	07	30	12.0	41.2	33	5.3	5.8		5.1*	VII *	PDE
1969	03	29	13	08	11	11.9	41.5	4	5.1	4.8*		5.0*	VII *	PDE
1969	03	29	18	30	42	12.0	41.4	33	4.6	4.0*		4.6*	VI *	PDE
1969	04	05	02	18	30	12.2	41.2	17	6.2	6.1	6.1 PAS	5.8*	VIII*	PDE
1969	04	05	20	14	36	12.0	41.5	33	4.9	5.2		4.8*	VII *	PDE
1969	04	06	16	51	46	12.0	41.1	20	5.2	5.4		5.0*	VII *	PDE
1969	04	07	06	23	53	12.0	41.3	33	4.6	4.0*		4.6*	VI *	PDE
1969	04	08	02	13	59	11.9	41.4	34	4.8	4.3*		4.8*	VII *	PDE
1969	05	05	02	45	39	11.9	41.3	35	5.2	5.0		5.0*	VII *	PDE
1971	11	13	15	47	42	11.0	39.7	24	5.3	5.1*		5.1*	VII *	PDE
1973	01	07	12	17	13	5.3	36.8	34	4.9	4.5*		4.8*	III	PDE
1973	03	28	10	45	30	11.8	42.7	33	4.6	4.0*		4.6*	VI *	PDE
1973	03	28	13	35	05	11.7	42.8	33	5.0	4.6*		4.9*	VII *	PDE
1973	03	28	13	42	07	11.7	42.7	33	5.3	5.3		5.1*	VII *	PDE
1973	03	28	14	18	52	11.7	42.9	33	5.4	5.4		5.2*	VII *	PDE
1973	03	28	14	59	07	11.7	42.9	33	5.2	5.0*		5.0*	VII *	PDE
1973	04	01	06	29	28	11.6	42.9	33	4.8	4.3*		4.8*	VII *	PDE
1973	04	01	07	12	37	11.7	43.0	31	5.5	5.9		5.3*	VII *	PDE
1973	04	01	07	38	41	11.6	42.9	33	4.9	4.5*		4.8*	VII *	PDE
1973	04	01	07	41	22	11.8	42.8	33	4.7	4.2*		4.7*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1973	04	07	17	36	43	11.7	43.0	33	4.7	4.2*		4.7*	VII •	PDE
1973	04	11	02	09	33	11.8	42.8	33	4.6	4.0*		4.6*	VI *	PDE
1973	04	13	14	13	57	11.9	43.8	33	4.8	4.3*		4.8*	VII *	PDE
1975	08	07	22	43	13	15.3	40.4	37	4.6	4.0*		4.6*	VI *	PDE
1975	08	23	21	35	22	10.6	39.7	33	5.2	5.0*		5.0*	VII *	PDE
1976	08	06	20	32	27	13.2	39.8	33	4.7	4.2*		4.7*	VII *	PDE
1977	07	08	06	23	02	10.9	39.6	38	5.0	4.6*		4.9*	VII *	PDE
1978	05	12	06	20	07	13.0	40.0	33	4.8	4.3*		4.8*	VII *	PDE
1978	11	07	00	23	27	10.1	42.7	33	4.6	4.0*		4.6*	VI *	PDE
1978	11	07	06	44	19	11.7	42.6	33	4.6	4.0*		4.6*	VI *	PDE
1978	11	07	17	05	55	11.5	42.6	33	5.3	5.4		5.1*	VII *	PDE
1978	11	08	05	08	02	11.6	42.6	62	4.9	4.5*		4.8*	VII *	PDE
1978	11	08	07	42	22	11.7	42.4	33	4.8	4.3*		4.8*	VII *	PDE
1978	11	08	08	44	46	11.4	43.0	33	4.6	4.0*		4.6*	VI *	PDE
1978	12	21	04	03	56	11.5	43.1	33	5.2	5.4		5.0*	VII *	PDE
1979	09	19	18	48	13	12.2	40.4	33	5.0	4.6*		4.9*	VII *	PDE
1979	10	16	13	18	51	11.8	43.6	10	5.1	4.8*		5.0*	VII *	PDE
1979	10	16	15	57	51	11.8	43.6	10	5.1	5.2		5.0*	VII *	PDE
1979	10	16	18	11	32	11.8	43.7	10	5.1	4.4		5.0*	VII *	PDE
1979	10	16	20	34	59	11.8	43.5	10	5.2	5.0*		5.0*	VII *	PDE
1979	10	16	20	45	54	11.6	43.9	10	5.3	5.1*		5.1*	VII *	PDE
1979	10	16	20	54	46	11.7	43.8	7	5.5	5.6		5.3*	VII *	PDE
1979	10	16	21	14	50	11.7	43.7	10	5.1	5.1		5.0*	VII *	PDE
1979	10	16	22	14	08	10.8	42.9	10	5.1	4.8*		5.0*	VII *	PDE
1979	10	16	23	41	39	11.8	43.5	10	5.2	4.8		5.0*	VII *	PDE
1980	05	16	17	40	42	10.0	43.0	10	4.9	3.9		4.8*	VII *	PDE
1983	09	28	21	02	33	11.5	43.1	5	5.1	4.6		5.0*	VII *	PDE
1983	09	30	18	58	14	11.9	43.3	10	5.5	5.4		5.3*	VII •	PDE
1983	09	30	19	39	46	11.9	43.2	10	4.7	4.2*		4.7*	VII *	PDE
1983	09	30	20	09	44	11.7	43.2	10	5.1	4.8*		5.0*	VII *	PDE
1983	10	19	04	45	53	11.6	43.5	10	5.3	4.5		5.1*	VII *	PDE
1983	12	02	23	08	39	7.0	38.6	10	5.1	4.3		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 559 WESTERN GULF OF ADEN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1926	10	30	01	38	10	11.0	44.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1930	10	25	17	41	55	11.5	44.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1951	07	03	05	23	46	12.2	45.8		5.3*	5.1*	5.4 STR	5.1*	VII *	ISS
1951	07	03	18	16	01	12.2	45.8		5.2*	5.0*	5.3 STR	5.0*	VII *	ISS
1965	03	07	07	32	38	12.1	46.3	38	4.9	4.5*		4.8*	VII *	PDE
1965	03	07	07	42	31	12.1	46.3	33	5.3	5.1*		5.1*	VII *	PDE
1968	12	12	17	30	30	12.1	45.9	33	4.6	4.0*		4.6*	VI *	PDE
1969	10	24	10	12	42	11.9	44.9	25	4.8	4.3*		4.8*	VII *	PDE
1973	04	05	01	59	13	12.3	46.4	33	4.6	4.0*		4.6*	VI *	PDE
1979	09	09	16	47	23	12.1	46.1	10	4.6	4.0*		4.6*	VI *	PDE
1979	09	10	20	57	25	12.0	46.0	10	4.9	4.5*		4.8*	VII *	PDE
1980	08	31	22	05	33	12.1	46.0	10	4.7	4.3		4.7*	VII *	PDE
1980	09	02	13	38		12.2	46.0	10	4.8	4.2		4.8*	VII *	PDE
1982	12	08	06	19	38	12.1	46.1	10	5.6	5.4		5.3*	VII *	PDE
1982	12	12	08	51	02	12.0	45.9	10	4.8	4.6		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 560 NORTHWESTERN SOMALIA

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1930	10	24	10	47	21	10.5	43.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1980	04	29	18	54	25	10.1	43.1	10	4.6	4.0*		4.6*	VI *	PDE
1980	05	03	03	30	56	10.0	43.1	10	5.3	5.2		5.1*	VII *	PDE
1980	05	13	05	35	31	10.2	43.1	10	4.6	4.0*		4.6*	VI *	PDE
1980	05	30	08	02	50	10.0	43.1	10	5.2	4.4		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 709 AFGHANISTAN

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1925	03	08	11	27	47	34.0	67.0	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1933	10	16	04	34	44	33.0	67.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1956	09	16	08	37	22	34.0	69.5		5.7*	6.1*	6.4 PAS	5.4*	VII *	PDE
1956	09	24	10	20	37	33.9	69.5		5.6*	6.0*	6.2 KIR	5.3*	VII *	ISS
1960	07	29	14	33	40	32.0	67.5		5.2*	5.0*	5.3 MOS	5.0*	VII *	PDE
1961	11	02	06	59	46	33.9	69.6	38	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1964	11	03	06	05	33	31.6	66.4	38	5.1	4.8*		5.0*	VII *	PDE
1965	06	13	04	21	28	33.6	69.4	50	4.9	4.5*		4.8*	VII *	PDE
1965	10	26	09	02	60	34.1	70.4	57	5.0	4.6*		4.9*	VII *	PDE
1966	01	24	02	15	29	32.6	67.6	52	5.1	4.8*		5.0*	VII *	PDE
1966	05	11	01	53	59	34.5	69.8	48	5.1	4.8*		5.0*	VII *	PDE
1967	08	04	08	06	59	34.8	70.1	33	4.8	4.3*		4.8*	VII *	PDE
1968	09	26	00	46	14	33.7	69.9	45	5.2	5.0*		5.0*	VII *	PDE
1969	05	15	20	39	46	34.6	70.9	22	5.6	5.6*		5.3*	VII *	PDE
1971	09	06	00	33	26	33.2	69.9	37	4.9	4.5*		4.8*	VII *	PDE
1972	11	03	23	57	59	34.2	69.7	20	5.4	5.4		5.2*	V	PDE
1972	12	28	16	57	45	34.7	70.4	63	5.6	5.6*		5.3*	V	PDE
1973	01	10	03	02	32	32.6	68.3	18	4.8	4.3*		4.8*	VII *	PDE
1973	01	18	11	08	12	32.8	68.4	34	4.8	4.3*		4.8*	VII *	PDE
1973	01	19	15	10	02	32.7	68.3	30	5.0	4.6*		4.0 ATH	VI *	PDE
1973	04	17	03	37	48	33.3	68.1	40	5.1	4.8*		5.0*	VII *	PDE
1974	03	08	01	48	42	33.1	69.4	33	5.0	4.6*		4.9*	VII *	PDE
1977	01	07	06	31	13	34.5	71.0	46	5.1	4.8*		5.0*	VII *	PDE
1977	07	01	03	48	35	34.6	70.5	44	4.9	4.5*		4.8*	VII *	PDE
1978	02	23	16	02	37	31.5	67.0	33	4.6	4.5		4.6*	VI *	PDE
1979	11	27	12	39	33	32.7	67.1	33	4.8	4.3*		4.8*	VII *	PDE
1981	12	04	12	13	42	33.9	69.3	33	4.8	4.3*		4.8*	VII *	PDE
1982	06	24	03	05	26	34.6	69.8	33	5.0	4.1		4.9*	VII *	PDE
1982	11	20	07	58	45	34.6	70.5	25	5.7	5.2		5.4*	VII *	PDE
1983	04	28	01	59	51	34.7	70.7	33	4.8	4.3*		4.8*	VII *	PDE
1983	06	24	12	20	15	34.6	70.0	33	4.6	4.0*		4.6*	VI *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1909	**07**	**08**	**02**	**30**		**35.5**	**72.5**							
1909	**10**	**20**	**23**	**41**		**30.0**	**68.0**	**60**	**6.1***	**7.2**		**5.7***	**VIII***	
1909	10	20	23	42		30.0	68.0	60	5.9*	6.8*	7.0	5.6*	VII *	BDA
1914	**02**	**06**	**11**	**42**		**29.5**	**65.0**	**100**	**6.0***	**7.0**		**5.7***	**VIII***	
1914	02	06	11	42	18	29.5	65.0	100	5.9*	6.8*	7.0	5.6*	VII *	BDA
1928	09	01	06	09		29.0	68.5		5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1928	10	15	14	19	41	28.5	67.5		5.9*	6.6*	6.8 PAS	5.5*	VII *	G-R
1928	11	14	04	33	09	35.0	72.5	110	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1930	09	29	13	29		27.5	68.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	**08**	**24**	**21**	**35**		**30.2**	**67.7**		**6.0***	**7.0**		**5.7***	**VIII***	
1931	08	24	21	35	22	30.3	67.8	60	5.9*	6.8*	7.0	5.6*	VII *	BDA
1931	08	26	19	29	20	28.0	69.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1931	**08**	**27**	**15**	**27**		**29.5**	**67.2**		**6.2***	**7.4**		**5.8***	**VIII***	
1931	09	30	11	14	45	28.5	69.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1935	05	15	02	01	24	28.0	68.0		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1935	**05**	**30**	**21**	**32**		**29.5**	**66.7**		**6.2***	**7.5**		**5.8***	**VIII***	
1935	06	02	09	16	25	30.0	66.7		5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1952	10	10	18	47	32	30.2	70.0		5.5*	5.7*	5.9 PRA	5.2*	VII *	ISS
1952	12	25	22	22	43	29.4	70.0		5.4*	5.5*	5.8 KIR	5.2*	VII *	ISS
1955	02	18	22	48	34	30.3	67.1		5.6*	6.0*	6.3 UPP	5.4*	VII	ISS
1955	08	23	14	09	17	31.0	71.5	60	5.7*	6.3*	6.5 SHL	5.4*	VII *	PDE
1956	05	13	07	50	33	29.9	70.0		5.6*	5.9*	6.1 KIR	5.3*	VIII	ISS
1957	09	04	08	07	15	28.0	65.5		5.5*	5.8*	6.0 KAR	5.3*	VII *	PDE
1958	05	07	14	47	35	35.5	71.0		5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1960	10	03	00	49	19	30.0	68.2	74	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1961	04	19	06	57	28	30.3	70.4	33	5.3*	5.3*	5.5 QUE	5.1*	VII *	PDE
1961	10	07	04	21	56	31.4	70.2	59	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1963	09	09	21	41	44	31.3	72.1	33	4.7	4.2*		4.7*	VII *	PDE
1963	09	27	17	09	20	27.2	65.9	19	4.7	4.2*		4.7*	VII *	PDE
1964	02	13	05	10	48	34.9	72.7	70	4.6	4.0*		4.6*	VI *	PDE
1964	10	13	23	02	26	35.8	71.1	120	5.8	5.9*		5.5*	VII *	PDE
1965	01	23	22	03	09	35.3	72.8	200	4.9	4.5*		4.8*	VII *	PDE
1965	03	24	01	08	08	25.2	67.7	40	4.8	4.3*		4.8*	VII *	PDE
1965	06	28	12	14	51	27.3	66.9	41	5.3	5.1*		5.1*	VII *	PDE
1965	07	23	21	29	32	26.1	65.2	19	5.0	4.6*		4.9*	VII *	PDE
1965	11	08	21	23	09	34.6	73.3	65	4.6	4.0*		4.6*	VI *	PDE
1965	11	13	06	14	25	26.3	65.2	20	5.2	5.0*		5.0*	VII *	PDE
1965	11	20	22	19	01	26.1	65.0	33	4.9	4.5*		4.8*	VII *	PDE
1965	12	29	04	07	55	31.9	69.8	75	4.9	4.5*		4.8*	VII *	PDE
1966	01	11	09	13	00	34.0	72.0	54	5.3	5.1*		5.1*	VII *	PDE
1966	01	24	07	23	10	29.9	69.7	26	5.6	5.6*		5.3*	VII *	PDE
1966	01	24	09	42	15	30.3	69.8	69	4.7	4.2*		4.7*	VII *	PDE
1966	01	24	15	32	52	29.9	69.7	26	5.1	4.8*		5.0*	VII *	PDE
1966	02	02	09	20	09	33.8	73.1	46	5.1	4.8*		5.0*	VII *	PDE
1966	02	07	04	26	11	29.9	69.7	10	6.0	6.3*	6.4 PAS	5.6*	VIII*	USE
1966	02	07	05	21	45	30.0	69.9	13	5.4	5.3*		5.2*	VII *	PDE
1966	02	07	05	30	16	30.0	69.8	23	5.4	5.3*		5.2*	VII *	PDE
1966	02	07	06	57	01	30.1	70.2	24	4.8	4.3*		4.8*	VII *	PDE
1966	02	07	07	28	19	30.3	70.0	43	4.7	4.2*		4.7*	VII *	PDE
1966	02	07	08	38	11	30.1	70.0	9	4.7	4.2*		4.7*	VII *	PDE
1966	02	07	23	06	35	30.3	69.9	11	5.8	5.9*	6.4 PAL	5.5*	VII *	PDE
1966	02	08	00	03	21	30.2	69.9	34	5.0	4.6*		4.9*	VII *	PDE
1966	02	08	05	53	06	30.2	70.1	6	5.1	4.8*		5.0*	VII *	PDE
1966	02	09	08	22	18	29.9	69.8	28	5.2	5.0*		5.0*	VII *	PDE
1966	02	13	19	09	45	30.0	69.7	9	5.1	4.8*		5.0*	VII *	PDE
1966	02	14	05	41	06	29.9	69.7	16	4.8	4.3*		4.8*	VII *	PDE
1966	02	16	09	44	22	29.9	69.7	34	4.8	4.3*		4.8*	VII *	PDE
1966	03	04	06	01	01	30.1	70.0	3	5.0	4.6*		4.9*	VII *	PDE
1966	03	15	09	14	29	30.0	69.8	35	4.7	4.2*		4.7*	VII *	PDE
1966	03	16	17	40	28	29.9	69.8	13	4.9	4.5*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1966	03	18	10	44	11	30.0	69.9	38	4.8	4.3*		4.8*	VII *	PDE
1966	04	06	01	51	53	34.9	73.1	58	5.0	4.6*		4.9*	VII •	PDE
1966	04	25	18	11	57	30.1	70.0	33	4.7	4.2*		4.7*	VII *	PDE
1966	06	11	06	08	49	35.8	72.0	98	4.8	4.3*		4.8*	VII *	PDE
1966	08	01	19	09	55	29.9	68.7	22	5.4	5.3*		5.2*	VII *	PDE
1966	08	01	20	30	55	30.0	68.5	17	5.6	5.6*		5.3*	VII *	PDE
1966	**08**	**01**	**21**	**02**		**30.0**	**68.7**	**33**	**6.0***	**7.0**		**5.7***	**VIII***	
1966	08	01	21	02	60	30.0	68.7	33	5.9*	6.8*	7.0	5.6*	VII *	BDA
1966	08	01	21	35	41	29.7	69.2	33	5.0	4.6*		4.9*	VII *	PDE
1966	08	01	22	30	53	29.9	68.8	20	5.1	4.8*		5.0*	VII *	PDE
1966	08	02	05	41	38	30.1	68.7	33	5.0	4.6*		4.9*	VII *	PDE
1966	08	02	09	18	58	29.9	69.2	21	5.0	4.6*		4.9*	VII *	PDE
1966	08	04	22	29	25	29.9	68.6	33	4.9	4.5*		4.8*	VII *	PDE
1966	08	15	12	10	49	29.7	68.6	33	4.8	4.3*		4.8*	VII *	PDE
1966	08	24	06	51	16	30.0	68.6	33	5.0	4.6*		4.9*	VII *	PDE
1966	09	01	19	03	46	29.7	68.8	33	4.8	4.3*		4.8*	VII *	PDE
1966	10	01	07	38	30	34.7	71.0	36	4.9	4.5*		4.8*	VII *	PDE
1966	10	16	09	26	38	30.0	68.6	42	5.0	4.6*		4.9*	VII *	PDE
1966	10	23	00	00	01	29.9	68.2	20	4.6	4.0*		4.6*	VI *	PDE
1966	10	25	10	07	01	30.0	68.9	26	5.2	5.0*		5.0*	VII *	PDE
1966	10	29	08	59	37	27.6	65.7	34	5.2	5.0*		5.0*	VII *	PDE
1966	11	12	12	16	47	25.1	68.0	33	5.1	4.8*		5.0*	VII *	PDE
1966	11	20	23	35	46	27.6	67.7	26	4.9	4.5*		4.8*	VII *	PDE
1966	12	08	02	07	07	29.4	70.0	31	5.1	4.8*		5.0*	VII *	PDE
1966	12	29	21	35	22	29.8	68.2	24	5.1	4.8*		5.0*	VII *	PDE
1967	01	20	05	16	38	32.4	69.9	46	4.6	4.0*		4.6*	VI *	PDE
1967	01	26	11	02	49	29.1	68.4	18	5.0	4.6*		4.9*	VII *	PDE
1967	02	12	16	06	47	35.8	71.0	100	5.1*	4.8		5.6	VII *	SSR
1967	03	26	03	08	28	27.3	67.5	33	4.9	4.5*		4.8*	VII *	PDE
1967	05	30	18	56	29	31.7	70.1	36	4.6	4.0*		4.6*	VI *	PDE
1967	09	11	06	12	01	27.5	66.4	36	4.6	4.0*		4.6*	VI *	PDE
1968	02	09	14	39	47	29.8	68.7	33	4.6	4.0*		4.6*	VI *	PDE
1968	02	28	09	54	56	30.3	67.6	25	4.8	4.3*		4.8*	VII *	PDE
1968	03	03	09	31	20	34.7	72.3	33	5.2	5.0*		5.0*	VII *	PDE
1968	04	04	01	44	26	24.6	66.0	33	5.0	4.6*		4.9*	VII *	PDE
1968	06	13	15	37	43	24.7	66.4	33	5.1	4.8*		5.0*	VII *	PDE
1968	06	14	04	02	22	31.2	70.2	25	4.9	4.5*		4.8*	VII *	PDE
1968	07	26	20	48	03	32.1	70.1	35	4.8	4.3*		4.8*	VII *	PDE
1968	09	28	09	25	37	27.6	66.8	33	5.2	5.0*		5.0*	VII *	PDE
1968	11	18	05	05	04	33.1	71.1	41	5.3	5.1*		5.1*	VII *	PDE
1969	01	22	19	42	22	32.2	70.0	41	4.7	4.2*		4.7*	VII *	PDE
1969	02	18	19	51	28	29.7	68.4	51	4.6	4.0*		4.6*	VI *	PDE
1969	04	01	16	36	23	30.0	67.4	20	4.9	4.5*		4.8*	VII *	PDE
1969	04	25	07	36	36	30.8	70.3	23	4.9	4.5*		4.8*	VII *	PDE
1969	08	18	14	57	57	29.9	67.5	15	5.0	4.6*		4.9*	VII *	PDE
1969	08	27	22	35	54	35.4	71.4	55	5.2	5.0*		5.0*	VII *	PDE
1969	09	20	04	48	46	29.7	68.6	40	5.2	5.0*		5.0*	VII *	PDE
1970	04	10	10	23	58	25.3	66.7	33	5.1	4.8*		5.0*	VII *	PDE
1970	04	30	03	24	55	33.1	73.4	39	5.0	4.6*		4.9*	VII *	PDE
1970	05	12	22	07	39	27.5	67.5	23	4.7	4.2*		4.7*	VII *	PDE
1970	07	26	20	30	36	34.8	73.2	33	5.1	4.8*		5.0*	VII *	PDE
1970	09	10	02	42	21	29.9	70.4	20	4.9	4.5*		4.8*	VII *	PDE
1970	10	19	05	40	12	26.9	67.0	33	5.4	5.3*		5.2*	VII *	PDE
1971	01	04	19	01	20	29.2	69.2	34	4.9	4.5*		4.8*	VII *	PDE
1971	01	08	23	52	16	29.1	69.1	4	5.2	5.0*		5.0*	VII *	PDE
1971	03	24	13	39	46	30.3	67.8	12	4.9	4.5*		4.8*	VII *	PDE
1971	04	28	15	12	42	34.4	73.5	40	4.9	4.5*		4.8*	VII *	PDE
1971	05	08	03	00	09	29.6	66.3	33	4.9	4.5*		4.8*	VII *	PDE
1971	05	09	19	26	35	35.6	71.1	85	5.5	5.4*		5.3*	VII *	PDE
1972	01	28	10	26	54	26.6	66.3	33	5.9	6.1*		5.6*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O	M_L	INTENSITY MAX	SOURCE CODE
1972	03	10	14	36	17	33.8	72.7	45	4.9	4.5*		4.8*	VII *	PDE
1972	04	17	02	24	49	34.0	72.9	45	4.8	4.3*		4.8*	VII *	PDE
1972	05	17	10	06	06	33.5	71.5	33	5.3	5.1*		5.1*	VII *	PDE
1972	06	05	11	52	53	29.8	70.3	27	4.8	4.3*		4.8*	VII *	PDE
1972	06	27	06	39	44	29.7	70.3	12	5.5	5.4*		5.3*	VII *	PDE
1972	06	27	10	48	56	29.7	70.3	8	5.4	5.3*		5.2*	VII *	PDE
1972	09	27	02	03	39	33.9	72.7	46	4.9	4.5*		4.8*	VII *	PDE
1973	01	20	12	34	20	29.3	68.6	17	5.3	5.6		5.1*	VII *	PDE
1973	01	20	12	46	44	29.5	68.6	15	5.0	4.6*		4.9*	VII *	PDE
1973	01	21	04	42	43	29.3	68.6	20	5.3	5.1*		5.1*	VII *	PDE
1973	01	21	05	25	23	29.3	68.5	11	5.2	5.0*		5.0*	VII *	PDE
1973	04	29	19	56	14	29.3	68.7	24	4.9	4.5*		4.8*	VII *	PDE
1973	05	25	08	39	54	25.5	66.5	57	4.9	4.5*		4.8*	VII *	PDE
1973	06	05	01	19	30	25.1	68.1	33	4.8	4.3*		4.8*	VII *	PDE
1973	08	13	02	00	20	29.9	68.4	7	4.7	4.3		4.7*	VII *	PDE
1973	08	14	18	24	20	25.4	65.7	33	5.1	4.8*		5.0*	VII *	PDE
1973	08	30	21	04	30	30.2	68.1	33	4.7	4.2*		4.7*	VII *	PDE
1973	09	27	02	04	23	33.9	72.2	35	4.9	4.5*		4.8*	VII *	PDE
1973	11	15	17	10	22	29.3	69.8	33	5.1	4.8*		5.0*	VII *	PDE
1973	11	27	00	47	35	31.7	72.0	26	4.6	4.0*		4.6*	VI *	PDE
1974	01	17	07	46	39	35.5	71.5	101	4.8	4.3*		4.8*	VII *	PDE
1974	02	09	04	07	38	28.7	69.4	33	4.9	4.5*		4.8*	VII *	PDE
1974	02	22	07	06	33	29.7	67.6	33	5.0	4.6*		4.9*	VII *	PDE
1974	03	29	20	45	05	26.6	66.2	33	4.7	4.2*		4.7*	VII *	PDE
1974	04	07	16	07	46	32.0	69.7	44	4.8	4.3*		4.8*	VII *	PDE
1974	05	11	23	47	45	35.7	72.1	38	4.7	4.2*		4.7*	VII *	PDE
1974	07	30	11	41	27	35.5	71.5	70	5.3	5.1*		5.1*	VII *	PDE
1974	10	04	22	24	33	26.3	66.5	33	5.8	5.9		5.5*	VII *	PDE
1974	10	04	23	15	49	26.3	66.7	33	4.8	4.3*		4.8*	VII *	PDE
1974	12	28	12	11	44	35.1	72.9	22	6.0	6.2	6.1 MOX	5.6*	VIII*	PDE
1974	12	28	12	46	09	35.1	72.9	33	5.0	4.6*		4.9*	VII *	PDE
1974	12	28	22	28	17	35.0	73.0	33	5.0	4.6*		4.9*	VII *	PDE
1974	12	28	22	38	51	35.2	73.0	33	5.0	4.6*		4.9*	VII *	PDE
1975	02	01	18	16	51	36.0	73.0	70	4.9	4.5*		4.8*	VII *	PDE
1975	03	16	10	23	09	29.6	68.5	35	5.2	5.0*		5.0*	VII *	PDE
1975	03	22	15	32	15	30.0	69.0	42	5.1	4.8*		5.0*	VII *	PDE
1975	03	24	05	33	47	29.6	68.6	26	5.5	5.4		5.3*	VII *	PDE
1975	04	07	06	41	01	34.9	73.0	37	5.0	4.6*		4.9*	VII *	PDE
1975	04	15	09	44	33	29.8	69.3	33	4.8	4.3*		4.8*	VII *	PDE
1975	06	06	22	44	48	25.2	66.6	33	4.7	4.2*		4.7*	VII *	PDE
1975	07	18	09	30	12	31.0	66.7	35	4.9	4.4		4.8*	VII *	PDE
1975	**10**	**03**	**05**	**14**		**30.3**	**66.3**	**11**	**6.0***	**7.0**		**5.7***	**VIII***	
1975	10	03	05	14	23	30.3	66.3	11	5.9*	6.8*	7.0	5.6*	VII *	BDA
1975	10	03	17	31	36	30.4	66.3	33	5.7	6.4		5.4*	VII *	PDE
1975	10	03	17	55	04	30.4	66.5	33	4.9	4.5*		4.8*	VII *	PDE
1975	10	03	19	08	07	30.5	66.5	23	4.9	4.5*		4.8*	VII *	PDE
1975	10	09	21	14	40	27.1	65.7	40	4.9	4.5*		4.8*	VII *	PDE
1976	07	10	16	40	36	30.0	68.1	33	5.3	5.1*		5.1*	VII *	PDE
1976	10	06	01	28	57	34.8	72.6	52	4.6	4.0*		4.6*	VI *	PDE
1977	02	14	00	22	38	33.6	73.3	33	5.2	5.0*		5.0*	VII *	PDE
1977	04	09	16	34	23	33.3	74.0	4	4.7	4.2*		4.7*	VII *	PDE
1977	07	13	08	09	16	29.9	67.5	10	5.1	5.5		5.0*	III	PDE
1977	11	18	06	39	02	30.3	66.3	27	4.9	4.5*		4.8*	III	PDE
1977	12	30	23	22	39	29.0	69.5	17	4.8	4.9		4.8*	VII *	PDE
1978	01	02	23	49	55	29.1	69.6	32	4.6	4.0*		4.6*	VI *	PDE
1978	01	05	03	26	39	29.6	68.8	33	5.0	4.6*		4.9*	VII *	PDE
1978	02	28	17	07	17	28.5	66.2	33	4.7	4.2*		4.7*	VII *	PDE
1978	03	16	02	00	01	29.9	66.3	33	5.3	5.9		5.1*	VII *	PDE
1978	04	27	18	12	23	35.1	73.0	33	5.0	4.6*		4.9*	VII •	PDE
1978	05	06	11	16	10	29.8	66.2	33	5.5	5.7		5.3*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1978	05	22	02	35	00	29.9	68.0	33	4.6	4.0*		4.6*	VI *	PDE
1978	11	18	01	35	00	32.9	72.7	40	4.9	4.5*		4.8*	VII *	PDE
1978	12	10	01	30	17	28.7	66.5	33	4.9	4.8		4.8*	VII *	PDE
1979	03	02	10	25	47	29.8	67.7	33	4.8	4.3*		4.8*	VII *	PDE
1979	03	04	02	51	48	33.9	73.2	42	4.7	4.2*		4.7*	VII *	PDE
1979	04	29	08	24	11	35.6	71.0	95	4.7	4.2*		4.7*	VII *	PDE
1979	06	24	13	49	03	30.3	66.3	40	4.8	4.3*		4.8*	VII *	PDE
1979	08	27	01	04	13	26.5	68.2	33	4.6	4.0*		4.6*	VI *	PDE
1979	09	02	16	14	49	28.6	66.1	33	4.8	4.3		4.8*	VII *	PDE
1979	10	21	17	24	38	30.0	68.0	33	4.8	4.3*		4.8*	VII *	PDE
1980	01	17	04	16	17	35.0	71.1	20	4.7	4.3		4.7*	VII *	PDE
1980	03	29	02	02	55	32.8	74.0	33	4.7	4.2*		4.7*	VII *	PDE
1980	05	10	11	24	00	29.9	68.2	17	5.1	4.5		5.0*	III	PDE
1980	05	11	02	44	22	29.3	67.6	33	4.7	4.2*		4.7*	VII *	PDE
1980	07	10	19	32	36	35.7	72.1	33	4.6	4.0*		4.6*	VI *	PDE
1980	09	06	21	28	60	28.4	65.9	19	4.7	4.8		4.7*	VII *	PDE
1980	10	27	20	12	12	29.2	70.1	33	5.1	4.8*		5.0*	VII *	PDE
1980	11	03	21	44	04	29.2	70.1	33	4.7	4.2*		4.7*	VII *	PDE
1980	11	04	15	35	25	29.2	70.1	33	4.9	4.7		4.8*	VII *	PDE
1981	01	31	13	41	59	35.2	72.8	76	4.6	4.0*		4.6*	VI *	PDE
1981	02	18	11	35	14	35.1	72.4	33	4.7	4.2*		4.7*	VII *	PDE
1981	02	19	15	43	27	26.4	67.6	33	4.6	4.0*		4.6*	VI *	PDE
1981	03	03	08	43	28	31.4	73.2	38	5.1	4.8*		5.0*	VII *	PDE
1981	03	07	14	57	06	30.3	69.4	33	5.0	4.6*		4.9*	VII *	PDE
1981	03	11	16	01	27	26.1	65.9	33	4.7	4.2*		4.7*	VII *	PDE
1981	05	23	12	52	18	30.8	68.6	33	4.9	4.5*		4.8*	VII *	PDE
1981	07	20	14	16	08	32.2	71.2	58	4.6	4.0*		4.6*	VI *	PDE
1981	09	05	06	51	37	27.7	66.5	33	4.7	4.2*		4.7*	VII *	PDE
1981	11	02	22	59	48	29.9	67.9	22	4.8	4.3*		4.8*	VII *	PDE
1981	12	05	10	12	11	29.5	69.0	33	5.2	5.4		5.0*	VII *	PDE
1981	12	12	20	26	47	29.9	67.0	33	4.6	4.0		4.6*	VI *	PDE
1981	12	12	20	29	10	29.7	67.1	33	4.6	4.0*		4.6*	VI *	PDE
1982	03	05	04	16	03	29.9	67.6	33	4.7	4.2*		4.7*	VII *	PDE
1982	03	24	14	09	42	28.6	68.8	33	5.1	4.7		5.0*	VII *	PDE
1982	03	24	14	27	54	28.2	69.2	33	4.7	4.2*		4.7*	VII *	PDE
1982	05	01	17	42	25	31.6	71.4	33	5.2	4.9		5.0*	VII *	PDE
1982	05	28	00	58	49	32.3	69.9	33	4.6	4.0*		4.6*	VI *	PDE
1982	06	28	11	02	25	36.0	71.2	93	4.7	4.2*		4.7*	VII *	PDE
1982	08	04	17	34	21	29.7	67.5	33	5.0	4.6*		4.9*	VII *	PDE
1982	08	20	14	17	57	30.4	68.1	33	4.9	4.5*		4.8*	VII *	PDE
1982	11	25	04	36	35	25.6	67.9	33	4.9	4.5*		4.8*	VII *	PDE
1982	12	26	13	10	15	29.8	70.0	33	4.6	4.0*		4.6*	VI *	PDE
1982	12	29	15	21	21	30.0	70.2	33	5.0	4.9		4.9*	VII *	PDE
1983	01	18	22	51	31	35.9	71.0	67	4.8	4.3*		4.8*	VII *	PDE
1983	04	23	04	23	55	30.3	68.0	24	4.6	4.2		4.6*	VI *	PDE
1983	04	23	18	49	54	29.5	68.2	33	4.7	4.3		4.7*	VII *	PDE
1983	06	13	08	01	39	27.6	66.2	33	4.8	4.3*		4.8*	VII *	PDE
1983	07	13	10	47	43	32.1	72.5	33	4.6	4.0*		4.6*	VI *	PDE
1983	11	18	13	35	09	27.6	67.5	33	4.8	4.3*		4.8*	VII *	PDE
1983	11	18	16	01	09	27.7	67.7	33	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 711 SOUTHWESTERN KASHMIR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1963	**09**	**02**	**01**	**34**		**33.9**	**74.7**	**44**	**5.4***	**5.4**		**5.2***	**VII ***	
1964	07	03	14	10	33	33.9	74.5	94	4.9	4.5*		4.8*	VII *	PDE
1973	12	16	19	09	48	34.2	74.1	47	5.2	5.0*		5.0*	VII *	PDE
1974	05	20	17	39	18	34.6	74.3	33	4.9	4.5*		4.8*	VII *	PDE
1981	06	23	19	54	02	34.1	74.7	33	4.9	4.5*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

FLINN-ENGDAHL REGION: 712 INDIA-PAKISTAN BORDER REG.

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1934	05	01	03	40	40	27.0	69.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1940	10	31	10	43	56	24.5	70.2		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1964	10	04	07	00	57	27.9	69.2	14	4.8	4.3*		4.8*	VII *	PDE
1965	03	26	10	04	08	24.2	69.6	33	4.6	4.0*		4.6*	VI *	PDE
1966	05	27	22	14	14	24.5	68.7	5	5.1	4.8*		5.0*	VII *	PDE
1970	02	13	15	05	51	24.6	68.6	33	5.2	5.0*		5.0*	VII *	PDE
1970	10	14	00	36	35	31.2	74.3	33	5.2	5.0*		5.0*	V	PDE
1976	06	04	00	43	43	24.6	68.4	33	5.2	5.0		5.0*	VII *	PDE
1977	04	13	07	16	32	31.6	74.4	67	4.7	4.2*		4.7*	VII *	PDE
1980	05	26	04	31	28	27.9	69.4	33	4.6	4.0*		4.6*	VI *	PDE
1981	09	25	02	50	40	30.7	74.4	52	4.6	4.0*		4.6*	VI *	PDE
1982	01	31	16	48	30	24.1	69.6	33	4.8	4.3		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1901	12	01				37.8	66.2	14	4.9*	4.4*		4.6	VI	SSR
1902	08	30	21	50		37.0	71.0	200	6.0*	6.9		7.7	VII	SSR
1902	12	04	22	18		37.8	65.5	20	5.1*	4.7*		4.9	VI	SSR
1903	01	20	08	24		37.0	71.0	30	5.3*	5.4*		5.5	VI	SSR
1903	04	19	13	25		37.0	71.0	160	5.7*	6.2	6.9	6.9	VI	SSR
1905	02	25	10	35		37.0	70.5	30	5.3*	5.2*		5.4	VI	SSR
1906	10	04	06	52		37.2	67.3	20	5.5*	5.7	5.7	5.7	VII	SSR
1907	10	23	20	25		37.8	65.8	30	5.7*	6.2	6.1	6.1	VII	SSR
1913	09	09	18	43		37.0	69.0	18	5.1*	4.8*	5.0	5.0	VII	SSR
1917	**04**	**21**	**00**	**49**		**37.0**	**70.5**	**220**	**6.0***	**7.0**		**5.7***	**VIII***	
1917	09	30	18	30		37.3	71.5	15	5.1*	4.8*		5.0	VII	SSR
1923	07	16	13	23	42	37.5	70.5	15	5.5*	5.7	5.4	5.6	VII *	SSR
1924	09	16	02	36	02	38.9	70.5	20	5.7*	6.3	6.5	6.4	VIII*	SSR
1925	01	02	23	15	50	38.8	70.0	10	5.4*	5.5	5.6	5.6	VII *	SSR
1925	05	14	07	10	56	37.0	69.5	150	5.5*	5.8*	6.0	6.0	VIII*	SSR
1925	06	20	13	04	15	36.5	71.5	230	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1925	12	18	18	10	25	36.5	71.0	230	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1926	06	30	22	51	46	38.8	70.0	10	5.4*	5.5	5.9	5.7	VIII*	SSR
1927	04	18	15	02		37.0	71.0	200	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1928	02	25	17	23	48	36.5	71.0	180	5.4*	5.4		6.2	VI	SSR
1928	02	25	17	23	58	37.5	67.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1929	03	03	03	11	02	36.5	71.0	250	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1929	06	04	07	04	45	37.3	66.5	14	5.5*	5.7		5.7	VIII	SSR
1930	09	23	10	15	20	37.6	71.6	120	5.0*	4.6		5.4	VII *	SSR
1931	01	07	03	49	42	36.5	71.0	200	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1931	01	20	09	27	22	36.5	71.5	220	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1933	05	27	22	41	58	37.0	70.5	230	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1934	08	31	14	57	41	38.7	71.0		5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1934	09	08	06	44	56	38.5	71.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	09	11	14	07	05	38.8	70.9	7	5.1*	4.8*		5.0	VII	SSR
1934	09	26	00	07	07	37.1	69.9	15	5.2*	5.0		5.0	VII *	SSR
1934	11	15	23	14	42	36.5	71.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1935	01	04	10	22	16	38.9	70.9	10	5.3*	5.2	5.3	5.2	VII *	SSR
1935	05	12	05	20	24	37.5	71.2	100	5.2*	5.1	6.1	6.0	VIII*	SSR
1935	05	16	17	24	16	37.5	69.2	13	5.4*	5.5	5.5	5.5	V	SSR
1935	07	28	05	23	58	36.0	71.0	150	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1935	10	08	09	19	06	38.8	70.8	15	5.7*	6.3	5.9	6.1	IX	SSR
1935	10	14	20	20	12	38.8	70.5	8	5.2*	4.9	5.0	4.9	VIII	SSR
1936	06	29	14	30	10	36.5	71.0	230	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1936	08	20	02	32	33	36.5	71.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1936	08	20	23	32	42	36.7	71.2	100	5.2*	4.9	6.1	5.9	VI	SSR
1937	09	09	17	35	30	36.2	71.2	100	5.2*	5.0	5.4	5.7	VIII*	SSR
1938	01	12	01	08	21	38.8	71.0	10	5.5*	5.8	5.4	5.4	VII	SSR
1938	08	05	14	17	40	36.8	71.0	15	5.2*	5.0	5.2	5.2	VII *	SSR
1939	02	06	21	10	16	36.5	71.0	250	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1939	05	30	10	07	06	39.0	70.4	6	5.5*	5.8	5.8	5.8	IX	SSR
1939	06	19	00	42	40	36.5	71.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1940	01	26	15	20	45	36.5	72.0	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1940	05	27	04	10	38	37.0	71.0	240	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1940	07	17	06	36	22	36.8	71.5	15	5.5*	5.7	5.7	5.7	VIII*	SSR
1940	10	05	14	44	33	37.2	69.0	15	5.4*	5.5	6.0	5.8	VIII*	SSR
1941	03	11	21	48	55	36.5	71.0	210	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1941	04	14	19	32	45	36.0	71.0	240	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1941	06	17	10	52	10	36.2	71.4	100	5.2*	5.0	5.4	5.6	VII *	SSR
1942	05	28	15	20	03	38.8	70.9	10	5.4*	5.6	5.7	5.6	VII *	SSR
1943	11	02	03	39	17	38.7	70.6	5	5.3*	5.3	5.0	5.2	VII	SSR
1944	04	29	21	41	26	36.5	71.0	200	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1946	06	26	15	21	37	36.5	71.0	210	5.2*	5.0*	5.3 PAS	5.0*	VII *	G-R
1949	08	29	14	32	23	38.9	71.0	10	5.2*	5.0	5.2	5.1	VII *	SSR
1950	05	20	18	53	50	37.1	70.9	80	5.1*	4.8	5.7	5.6	V	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1950	07	09	16	10	24	36.8	71.0	240	5.4*	5.6	6.6	6.5	VI	SSR
1950	11	17	22	01	04	38.8	70.5	5	5.3*	5.3	5.3	5.3	VII	SSR
1950	11	21	20	53	57	38.6	70.5	5	5.4*	5.5	4.9	5.2	VII	SSR
1951	01	06	05	17	20	36.5	71.0	223	5.9*	6.6*	6.8 PAS	5.5*	VIII	ISS
1951	06	12	22	40	39	36.3	71.0	223	5.0*	4.7*		4.9*	VII	ISS
1952	01	30	23	33	55	37.6	68.5	11	5.0*	4.5	4.1	4.3	VI	SSR
1952	05	28	07	47	44	37.0	70.8	230	5.3*	5.3		6.1	VIII*	SSR
1952	08	13	03	14	22	37.4	70.0	10	5.2*	4.9	5.0	4.9	VII *	SSR
1953	07	12	00	53	07	36.5	71.0	15	5.2*	5.0	4.3	5.0	VII *	SSR
1954	02	26	18	46	17	36.8	71.3	120	5.3*	5.2		6.0	VI	SSR
1954	07	10	22	56	55	36.8	71.2	200	5.3*	5.3		6.1	V	SSR
1954	10	13	22	11	43	37.4	69.3	11	5.2*	5.0	5.3	5.1	VII	SSR
1955	01	10	04	25	50	37.2	70.8	100	5.2*	5.0		5.8	VI	SSR
1955	03	05	10	23	02	36.8	71.3	100	4.9*	4.4	5.0	5.2	V	SSR
1955	05	14	13	35	43	36.6	71.3	223	5.5*	5.6*	5.9 KIR	5.2*	VII *	ISS
1955	12	11	05	42	39	37.3	71.3	100	5.1*	4.8	5.5	5.5	VII *	SSR
1956	04	11	01	45	10	38.8	70.3		5.4*	5.6*	5.8 UPP	5.2*	VII *	ISS
1956	07	03	23	26	17	36.6	71.1	223	5.6*	5.9*	6.1 UPP	5.3*	VII *	ISS
1956	07	10	22	08	23	36.5	71.5	100	5.3*	5.3*	5.5 QUE	5.1*	VII *	PDE
1956	09	22	14	02	24	38.9	70.5	4	5.0*	4.6	4.3	4.5	VIII	SSR
1956	10	13	08	21	12	36.3	71.2	90	5.6*	5.9*	6.1 KIR	5.3*	VII *	ISS
1956	11	14	00	51	27	36.5	71.0	150	5.3*	5.3*	5.5 MOS	5.1*	VII *	PDE
1957	01	13	11	38	16	38.6	70.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	ISS
1957	01	20	18	12	49	37.2	71.0	100	5.2*	5.0		5.8	VIII*	SSR
1957	02	17	07	23		37.6	65.3	17	5.0*	4.5*		4.7	VI	SSR
1957	08	20	15	21	11	36.9	71.0	210	5.3*	5.2		6.0	V	SSR
1957	09	02	21	27	38	36.5	71.1	222	5.7*	6.3*	6.5 QUE	5.4*	VII *	ISS
1957	10	05	22	40	46	37.6	69.4	50	5.3*	5.2	5.2	5.2	V	SSR
1958	01	06	01	54	30	37.5	71.0		5.4*	5.5*	5.8 MOS	5.2*	VII *	PDE
1958	01	07	06	05	09	38.9	70.3	5	5.4*	5.6	5.4	5.5	VIII	SSR
1958	03	28	04	09	30	36.5	71.0	200	5.4*	5.6*	5.8 UPP	5.2*	VII *	PDE
1958	08	04	20	48		36.9	71.5	120	5.1*	4.7		5.5	VII *	SSR
1958	08	13	07	33	39	37.2	66.5	20	5.3*	5.3		5.3	VII *	SSR
1958	09	18	20	53	02	36.5	71.0	150	5.6*	5.9*	6.1 UPP	5.3*	VII *	PDE
1958	12	10	03	43	43	36.3	71.2	111	5.7*	6.2*	6.4 UPP	5.4*	VII *	ISS
1959	05	26	06	35	58	37.0	69.9	30	5.3*	5.3	5.3	5.3	VII *	SSR
1959	06	25	03	12	47	36.9	71.4	120	4.9*	4.3	4.9	5.0	VII *	SSR
1959	07	31	19	53	02	38.5	70.0		5.5*	5.7*	5.9 UPP	5.2*	VII *	PDE
1959	09	09	05	44	31	36.7	71.0	120	5.1*	4.7	5.0	5.2	VII *	SSR
1959	09	12	21	20	03	36.9	71.0	200	5.2*	5.0	5.5	5.6	VII *	SSR
1960	02	23	02	09	05	36.7	71.1	160	5.2*	5.1	5.3	5.9	V	SSR
1960	05	19	02	07		36.0	71.0	200	5.7*	6.3*	6.5 QUE	5.4*	VII *	PDE
1960	09	09	10	05	23	37.0	71.0	200	5.2*	5.0	5.1	5.8	VIII*	SSR
1961	03	20	03	30	27	36.6	71.1	80	5.2*	5.0		5.8	VI	SSR
1961	04	26	05	23	24	36.4	71.4	235	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	08	21	07	00	21	36.7	71.4	110	5.1*	4.8	5.1	5.6	VII *	SSR
1961	11	06	12	29	06	36.0	72.9	191	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1962	01	05	04	27	02	36.7	71.1	100	4.8*	4.1	5.1	5.0	VII *	SSR
1962	01	31	00	05	53	38.6	70.1	13	5.0*	4.6*	4.9	5.0	VII *	SSR
1962	02	27	05	40	53	36.7	71.0		4.9*	4.3*	4.5	4.4	VI *	SSR
1962	03	28	00	51	55	36.9	71.4	110	5.3*	5.2	5.2	6.0	V	SSR
1962	04	11	09	33	36	36.5	71.4	100	5.0*	4.6		5.4	VII *	SSR
1962	11	01	13	46	30	37.6	70.2		5.1*	4.8*	5.0	5.0	VII *	SSR
1962	11	01	15	26	45	37.7	70.2		5.0*	4.6*	4.9	5.0	VII *	SSR
1963	03	07	21	49	22	36.5	71.1	80	5.2*	5.1	4.5	5.9	VIII*	SSR
1963	03	11	10	27	47	36.5	71.1	252	5.0	4.6*		4.9*	VII *	PDE
1963	04	28	19	50	09	36.3	71.3	123	4.9	4.5*		4.8*	VII *	PDE
1963	05	07	03	16	40	36.6	71.0	218	5.1	4.8*		5.0*	VII *	PDE
1963	06	01	10	49	57	36.1	71.2	100	5.1	4.8*		5.0*	VII *	PDE
1963	06	11	03	25	42	37.1	70.1	44	5.4	5.3*		5.2*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1963	07	10	02	11	58	36.5	71.8	33	4.9	4.5*		4.8*	VII *	PDE
1963	09	29	15	31	31	36.1	72.0	150	4.9	4.5*		4.8*	VII *	PDE
1963	10	14	21	12	38	37.5	71.9	110	5.0*	4.6	5.0	5.3	VII *	SSR
1963	11	04	21	12	12	36.3	71.3	148	4.7	4.2*		4.7*	VII *	PDE
1963	12	09	18	01	55	36.1	71.2	157	5.0	4.6*		4.9*	VII *	PDE
1963	12	26	20	50	21	36.4	71.3	140	4.9	4.5*		4.8*	VII *	PDE
1964	01	02	17	28	36	36.4	71.1	233	4.8	4.3*		4.8*	VII •	PDE
1964	01	17	03	25	01	36.8	71.4	94	5.2	5.0*		5.0*	VII *	PDE
1964	01	23	15	19	35	36.6	71.2	90	5.1*	4.8		5.6	VII *	SSR
1964	03	09	10	27	33	36.2	71.5	132	4.8	4.3*		4.8*	VII *	PDE
1964	03	27	19	12	51	36.8	71.2	206	5.6	5.6*		5.3*	VII *	PDE
1964	05	16	08	38	54	36.3	71.5	122	5.3	5.1*		5.1*	VII *	PDE
1964	07	06	10	13	45	37.1	71.4	100	5.9	6.1*		5.6*	VII *	PDE
1964	09	28	06	51	05	36.3	71.6	118	5.5	5.4*		5.3*	VII *	PDE
1964	10	24	06	51	02	38.8	71.0	57	5.1	4.8*		5.0*	VII *	PDE
1964	10	25	22	56	08	38.7	70.8	33	5.0	4.6*		4.9*	VII *	PDE
1964	10	28	19	35	16	36.1	71.3	130	5.5	5.4*		5.3*	VII *	PDE
1964	11	25	11	45	54	38.9	71.0	85	4.8	4.3*		4.8*	VII *	PDE
1964	12	02	12	31	45	38.9	70.6	33	4.7	4.2*		4.7*	VII *	PDE
1965	01	15	00	34	15	36.5	71.0	245	5.4	5.3*		5.2*	VII *	PDE
1965	03	14	11	41	40	37.7	68.3		4.9*	4.3*	4.5	4.4	VI *	SSR
1965	04	10	21	21	27	37.3	71.9	136	4.9	4.5*		4.8*	VII *	PDE
1965	06	20	18	11	18	36.6	71.0	178	4.9	4.5*		4.8*	VII *	PDE
1965	07	20	07	43	28	36.7	71.4	194	5.1	4.8*		5.0*	VII *	PDE
1965	07	21	22	40	27	36.5	71.4	105	4.6	4.0*		4.6*	VI *	PDE
1965	07	24	17	57	42	36.5	71.2	225	4.9	4.5*		4.8*	VII *	PDE
1965	08	15	05	59	47	36.5	71.1	201	4.8	4.3*		4.8*	VII *	PDE
1965	10	06	16	43	47	36.5	71.0	208	4.6	4.0*		4.6*	VI *	PDE
1965	10	06	22	41	22	36.4	71.2	135	4.9	4.5*		4.8*	VII *	PDE
1965	10	31	20	25	31	37.8	68.0	37	4.6	4.0*		4.6*	VI *	PDE
1965	11	16	01	03	56	36.4	71.1	244	5.5	5.4*		5.3*	VII *	PDE
1965	12	07	00	29	33	36.7	71.5	279	4.6	4.0*		4.6*	VI *	PDE
1965	12	25	17	43	28	36.9	71.6	156	5.0	4.6*		4.9*	VII *	PDE
1966	01	05	10	26	32	36.7	71.2	188	4.7	4.2*		4.7*	VII *	PDE
1966	02	12	16	34	11	36.7	71.5	175	4.9	4.5*		4.8*	VII *	PDE
1966	02	19	09	42	59	37.3	70.5	27	4.8	4.3*		4.8*	VII *	PDE
1966	02	28	20	03	00	36.2	71.1	88	4.6	4.0*		4.6*	VI *	PDE
1966	04	05	05	18	45	36.9	71.0	114	4.7	4.2*		4.7*	VII *	PDE
1966	04	11	16	42	52	38.9	70.6	13	4.8	4.3*		4.8*	VII *	PDE
1966	04	14	13	55	12	39.0	70.5	10	4.9*	4.3*	4.5	4.4	VI *	SSR
1966	04	14	21	06	14	38.9	70.6	12	5.1	4.8*		5.0*	VII *	PDE
1966	04	16	15	50	55	39.0	70.6	3	4.9*	4.3*	4.5	4.2	VI *	SSR
1966	04	22	10	06	00	36.6	71.0	225	4.6	4.0*		4.6*	VI *	PDE
1966	04	24	07	10	37	37.9	70.2		4.9*	4.3*	4.5	4.2	VI *	SSR
1966	05	10	21	57	45	37.2	71.2	97	4.6	4.0*		4.6*	VI *	PDE
1966	06	06	07	46	16	36.4	71.1	221	6.2	6.6*	6.8 PAS	5.8*	VIII*	PDE
1966	07	04	08	45	46	36.8	71.1	78	4.6	4.0*		4.6*	VI *	PDE
1966	07	06	11	57	25	38.9	71.2	30	4.7	4.2*		4.7*	VII *	PDE
1966	07	12	14	04	27	36.9	71.4	108	4.9*	4.3		5.1	VII *	SSR
1966	07	19	03	28	52	36.3	71.5	140	4.6	4.0*		4.6*	VI *	PDE
1966	07	26	15	15	33	36.7	71.5	125	5.1	4.8*		5.0*	VII *	PDE
1966	08	03	22	13	26	37.2	71.3	86	4.7	4.2*		4.7*	VII *	PDE
1966	08	31	01	19		36.5	71.3	73	4.7	4.2*		4.7*	VII *	PDE
1966	09	05	04	06	06	37.1	71.5	140	4.8	4.3*		4.8*	VII *	PDE
1966	09	22	04	51	13	37.4	71.7	140	4.7	4.2*		4.7*	VII *	PDE
1966	10	31	22	24	20	36.4	71.0	146	4.7	4.2*		4.7*	VII •	PDE
1966	11	19	19	05	37	37.1	71.3	110	4.8	4.3*		4.8*	VII *	PDE
1966	12	13	12	21	02	37.3	71.9	126	5.3	5.1*		5.1*	VII *	PDE
1966	12	22	12	29	51	37.7	65.9	18	4.9*	4.3*	4.5	4.8	VII •	SSR
1966	12	25	17	06	57	37.5	70.2	38	4.9	4.5*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O	M_L	INTENSITY MAX	SOURCE CODE
1967	01	25	01	50	20	36.7	71.6	283	5.7	5.8*	6.3 UPP	5.4*	VII *	PDE
1967	01	26	05	25	21	37.5	71.7	139	4.7	4.2*		4.7*	VII *	PDE
1967	02	24	07	05	38	37.2	71.8	220	4.7	4.2*		4.7*	VII *	PDE
1967	03	04	14	18	45	36.8	71.0	45	5.2	5.0*		5.0*	VII *	PDE
1967	03	24	08	19	31	36.3	71.2	80	4.9*	4.3*	4.5	3.9	VI *	SSR
1967	04	08	09	44	34	37.2	71.8	162	5.1	4.8*		5.0*	VII *	PDE
1967	04	08	21	14	46	36.2	71.3	112	4.6	4.0*		4.6*	VI *	PDE
1967	04	10	16	20	37	37.3	69.9		4.9*	4.3*	4.5	4.4	VI *	SSR
1967	05	09	16	37	02	39.0	71.4	55	4.7	4.2*		4.7*	VII *	PDE
1967	05	22	17	41	21	37.1	68.0	40	5.3	5.1*		5.1*	VII *	PDE
1967	05	22	19	19	25	37.1	68.1	41	4.7	4.2*		4.7*	VII *	PDE
1967	05	27	12	42	54	36.2	71.5	101	4.7	4.2*		4.7*	VII *	PDE
1967	06	18	16	39	12	37.4	71.9	83	5.0	4.6*		4.9*	VII *	PDE
1967	07	23	01	16	43	36.9	71.4	180	4.6	4.0*		4.6*	VI *	PDE
1967	08	07	05	49	58	36.5	71.2	229	5.0	4.6*		4.9*	VII *	PDE
1967	08	12	22	54	39	37.0	71.4	121	5.1	4.8*		5.0*	VII *	PDE
1967	08	19	01	34	44	36.9	71.5	127	4.9	4.5*		4.8*	VII *	PDE
1967	09	08	00	26	03	36.9	71.5	111	5.0	4.6*		4.9*	VII *	PDE
1967	09	08	05	23	41	38.4	70.5	14	4.9	4.5*		4.8*	VII *	PDE
1967	09	22	22	11	48	36.2	71.4	127	4.7	4.2*		4.7*	VII *	PDE
1967	10	02	17	49	58	37.4	71.8	160	4.9*	4.3*	4.5	4.4	VI *	SSR
1967	11	07	19	57	26	37.0	71.7	136	5.3	5.1*		5.1*	VII *	PDE
1967	11	12	10	40	36	36.3	71.4	98	5.1	4.8*		5.0*	VII *	PDE
1967	11	16	00	41	25	37.6	69.7	33	4.7	4.2*		4.7*	VII *	PDE
1967	12	04	15	35	34	36.1	71.2	143	4.9	4.5*		4.8*	VII *	PDE
1967	12	17	00	25	15	36.5	71.4	82	5.2	5.0*		5.0*	VII *	PDE
1967	12	19	03	23	54	37.6	71.7	115	5.2*	5.0*	5.3	5.0	VII *	SSR
1967	12	28	20	15	49	37.2	71.8	156	4.7	4.2*		4.7*	VII *	PDE
1968	04	09	01	26	46	36.5	71.0	118	5.5	5.4*		5.8	VIII*	SSR
1968	04	17	09	50	39	36.3	71.4	94	4.8	4.3*		4.8*	VII *	PDE
1968	04	17	13	11	26	36.4	71.5	113	5.2	5.0*		5.0*	VII *	PDE
1968	04	23	06	45	12	36.3	71.2	114	5.2	5.0*		5.0*	VII *	PDE
1968	05	08	22	45	08	37.1	71.9	160	5.1	4.8*		5.0*	VII *	PDE
1968	06	13	22	38	01	36.6	71.5	213	4.8	4.3*		4.8*	VII *	PDE
1968	09	18	07	37	22	37.2	71.9	123	5.0	4.6*		4.9*	VII *	PDE
1968	10	10	22	49	02	37.2	70.0	33	4.9	4.5*		4.8*	VII *	PDE
1968	12	01	01	11	16	36.7	71.3	144	4.8	4.3*		4.8*	VII *	PDE
1968	12	20	23	37	56	36.4	71.0	197	4.7	4.2*		4.7*	VII *	PDE
1969	01	27	10	59	27	37.3	71.5	49	5.2	5.0*		5.0*	VII *	PDE
1969	03	22	04	52	33	38.9	70.6	8	5.3	5.1*		5.1*	VII *	PDE
1969	03	27	11	19	29	39.0	71.9	37	4.9	4.5*		4.8*	VII *	PDE
1969	05	04	03	22	04	36.4	71.5	126	4.6	4.0*		4.6*	VI *	PDE
1969	05	19	10	01	48	36.1	71.3	141	4.6	4.0*		4.6*	VI *	PDE
1969	06	02	17	53	05	36.3	71.2	228	4.8	4.3*		4.8*	VII *	PDE
1969	06	05	06	00	29	36.7	71.2	232	4.6	4.0*		4.6*	VI *	PDE
1969	06	19	18	18	60	38.5	71.0	117	4.8	4.3*		4.8*	VII *	PDE
1969	07	20	07	07	52	36.5	71.1	220	4.9	4.5*		4.8*	VII *	PDE
1969	11	14	09	41	17	39.0	70.5	10	4.9*	4.3*	4.5	4.4	VI *	SSR
1969	11	24	17	23	20	37.2	71.7	123	5.6	5.6*		5.3*	VII *	PDE
1969	12	03	16	44	20	36.4	71.1	211	4.7	4.2*		4.7*	VII *	PDE
1969	12	28	16	49	60	36.4	71.2	202	4.8	4.3*		4.8*	VII *	PDE
1969	12	29	18	08	56	37.0	71.8	42	4.7	4.2*		4.7*	VII *	PDE
1970	01	24	02	52	35	36.6	71.2	204	4.6	4.0*		4.6*	VI *	PDE
1970	02	11	22	25	41	36.7	71.3	141	4.7	4.2*		4.7*	VII *	PDE
1970	03	07	12	59	50	36.8	71.2	148	4.7	4.2*		4.7*	VII *	PDE
1970	04	10	08	22	60	36.4	71.1	125	4.7	4.2*		4.7*	VII *	PDE
1970	04	19	05	33	46	39.0	70.8	33	4.7	4.2*		4.7*	VII *	PDE
1970	04	28	18	43	16	38.9	70.9	41	5.0	4.6*		4.9*	VII *	PDE
1970	05	10	12	32	33	36.1	71.1	121	4.7	4.2*		4.7*	VII *	PDE
1970	06	11	17	40	50	36.5	71.1	184	5.2	5.0*		5.0*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1970	07	08	23	13	30	37.1	66.0	33	5.1	4.8*		5.0*	VII *	PDE
1970	09	05	19	26	26	37.0	71.4	112	5.1	4.8*		5.0*	VII *	PDE
1970	10	09	01	18	44	39.0	71.6	81	5.1	4.8*		5.0*	VII *	PDE
1970	10	26	10	06	03	36.8	71.4	126	4.7	4.2*		4.7*	VII *	PDE
1970	11	13	17	30	07	36.9	71.6	124	5.3	5.1*		5.1*	VII *	PDE
1970	11	29	05	12	07	36.2	71.4	117	4.9	4.5*		4.8*	VII *	PDE
1970	11	29	08	53	20	36.6	71.5	177	4.6	4.0*		4.6*	VI *	PDE
1971	01	11	20	21	34	36.9	71.6	163	4.6	4.0*		4.6*	VI *	PDE
1971	01	13	21	52	36	38.9	71.0	72	4.8	4.3*		4.8*	VII *	PDE
1971	02	10	23	31	43	38.7	70.6	30	4.8	4.3*		4.8*	VII *	PDE
1971	02	19	10	13	29	36.6	71.5	110	4.8	4.3*		4.8*	VII *	PDE
1971	05	08	02	29	29	37.5	69.9	7	4.9*	4.3*		4.5	VII	SSR
1971	06	26	22	23	29	36.3	71.4	127	5.0	4.6*		4.9*	VI	PDE
1971	06	27	16	56	34	36.8	71.1	137	4.7	4.2*		4.7*	VII *	PDE
1971	10	14	21	55	56	36.4	71.1	112	5.1	4.8*		5.0*	VII *	PDE
1971	10	15	16	22	13	37.0	71.8	167	4.9	4.5*		4.8*	VII *	PDE
1971	10	16	06	11	39	37.2	71.2	105	4.8	4.3*		4.8*	VII *	PDE
1971	11	20	15	54	44	36.4	71.1	220	5.2*	5.0*	5.2	5.0*	VII *	SSR
1972	05	23	18	17	14	38.5	70.2	33	4.9	4.5*		4.8*	VII *	PDE
1972	05	25	21	22	39	37.6	69.4	63	5.2	5.0*		5.0*	VII *	PDE
1972	06	20	05	26	07	36.4	71.6	110	5.1	4.8*		5.0*	VII *	PDE
1972	06	20	14	04	56	37.2	71.6	125	4.6	4.0*		4.6*	VI *	PDE
1972	06	29	03	32	11	38.9	71.4	53	4.9	4.5*		4.8*	VII *	PDE
1972	07	08	06	49	23	36.3	71.4	121	5.6	5.6*		5.3*	VII *	PDE
1972	08	13	09	04	48	36.9	71.4	33	4.7	4.2*		4.7*	VII *	PDE
1972	08	14	07	16	22	36.5	71.5	130	4.6	4.0*		4.6*	VI *	PDE
1972	09	30	10	29	08	36.6	71.4	176	4.9	4.5*		4.8*	VII *	PDE
1972	10	08	22	54	31	37.2	70.6	108	4.6	4.0*		4.6*	VI *	PDE
1973	01	02	16	25	36	36.1	71.3	137	4.8	4.3*		4.8*	VII *	PDE
1973	03	07	07	07	39	36.5	71.5	78	5.0	4.6*		4.9*	VII *	PDE
1973	04	08	01	22	26	36.4	71.3	230	4.7	4.2*		4.7*	VII *	PDE
1973	04	21	04	29	27	38.6	70.8	93	4.6	4.0*		4.6*	VI *	PDE
1973	05	15	18	40	33	37.3	71.7	126	4.9	4.5*		4.8*	VII *	PDE
1973	06	11	20	06	07	36.7	71.3	97	4.9	4.5*		4.8*	VII *	PDE
1973	06	14	16	59	16	36.9	71.4	133	4.6	4.0*		4.6*	VI *	PDE
1973	08	22	03	43	50	36.4	71.2	239	4.6	4.0*		4.6*	VI *	PDE
1973	09	14	11	29	56	38.3	70.4	86	4.6	4.0*		4.6*	VI *	PDE
1973	09	25	18	39	00	37.0	71.5	110	5.1	4.8*		5.0*	VII *	PDE
1973	10	12	02	54	08	37.7	72.0	11	5.3	4.6		5.1*	VII *	PDE
1973	10	17	03	16	19	36.4	71.2	221	5.5	5.4*		5.3*	VII *	PDE
1973	12	12	22	40	50	36.3	71.1	150	5.1*	4.8*	5.0	3.9	VI *	SSR
1974	02	06	17	26	17	36.5	71.4	193	4.9	4.5*		4.8*	VII *	PDE
1974	02	22	03	33	27	36.5	71.5	116	5.4	5.3*		5.2*	VII *	PDE
1974	06	03	11	45	36	36.9	71.4	100	5.3	5.1*		5.1*	VII *	PDE
1974	06	14	17	53	13	37.2	71.6	147	4.6	4.0*		4.6*	VI *	PDE
1974	06	24	22	49	44	37.0	71.5	145	4.8	4.3*		4.8*	VII *	PDE
1974	08	07	21	08	43	36.2	71.0	144	4.8	4.3*		4.8*	VII *	PDE
1974	08	29	01	02	28	36.5	71.3	228	5.0	4.6*		4.9*	VII *	PDE
1974	09	21	01	07	09	37.7	71.7	93	4.9	4.5*		4.8*	VII *	PDE
1974	10	10	16	09	36	37.5	71.8	119	4.8	4.3*		4.8*	VII *	PDE
1974	12	08	06	51	50	38.7	70.2	33	4.9	4.5*		4.8*	VII *	PDE
1974	12	30	16	24	48	36.7	71.0	40	4.9	4.5*		4.8*	VII *	PDE
1975	02	05	05	43	47	37.0	71.9	158	4.7	4.2*		4.7*	VII *	PDE
1975	02	28	10	55	50	37.2	71.6	75	5.1	4.8*		5.0*	VII *	PDE
1975	03	04	17	00	51	36.3	71.6	90	4.9	4.5*		4.8*	VII *	PDE
1975	04	15	10	30	17	36.1	71.2	117	4.6	4.0*		4.6*	VI *	PDE
1975	04	24	21	30	29	36.9	71.1	148	4.9	4.5*		4.8*	VII *	PDE
1975	05	18	17	51	30	36.1	71.1	94	4.8	4.3*		4.8*	VII *	PDE
1975	05	28	17	00	36	36.4	71.1	255	4.7	4.2*		4.7*	VII *	PDE
1975	06	09	18	36	48	38.8	70.3	21	5.3	5.1*		5.1*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1975	06	27	19	02	30	36.5	71.2	225	4.7	4.2*		4.7*	VII *	PDE
1975	08	19	09	40	43	36.6	71.2	113	4.6	4.0*		4.6*	VI *	PDE
1975	08	22	07	46	56	37.3	71.8	129	4.8	4.3*		4.8*	VII *	PDE
1975	09	17	03	48	30	37.1	71.6	135	4.7	4.2*		4.7*	VII *	PDE
1975	10	17	01	09	05	37.4	71.4	85	4.9	4.5*		4.8*	VII *	PDE
1975	10	24	13	35	28	37.3	71.5	112	4.8	4.3*		4.8*	VII *	PDE
1975	10	25	00	31	42	36.1	71.0	82	4.9	4.5*		4.8*	VII *	PDE
1975	11	02	01	08	29	38.5	70.5	20	4.8	4.3*		4.8*	VII *	PDE
1975	12	17	05	56	05	37.2	71.7	169	4.6	4.0*		4.6*	VI *	PDE
1976	01	01	00	54	35	36.4	71.0	240	5.0*	4.5*	4.7	2.8	V *	SSR
1976	01	02	06	27	47	36.4	71.2	93	5.0	4.6*		4.9*	VII *	PDE
1976	01	11	18	37	32	36.7	71.5	184	4.7	4.2*		4.7*	VII *	PDE
1976	01	16	17	10	13	37.8	71.2	28	5.0	4.6*		4.9*	VII *	PDE
1976	01	23	11	53	59	38.5	70.5	5	4.7	4.2*		4.7*	VII *	PDE
1976	03	02	05	01	15	37.2	71.2	107	4.6	4.0*		4.6*	VI *	PDE
1976	03	31	21	09	37	36.3	71.5	106	5.0	4.6*		4.9*	VII *	PDE
1976	08	01	10	34	29	36.9	71.7	147	4.6	4.0*		4.6*	VI *	PDE
1976	08	05	07	38	47	38.6	71.9		4.9*	4.3*	4.5	3.9	VI *	SSR
1976	09	01	10	46	25	36.2	71.4	110	5.0	4.6*		4.9*	VII *	PDE
1976	09	03	21	52	47	38.9	70.7	43	5.1	4.7		5.0*	VII *	PDE
1976	09	03	22	20	28	39.0	70.6	11	5.0*	4.5*	4.7	4.4	VI *	SSR
1976	09	05	15	36	32	38.3	70.4	41	4.9	4.5*		4.8*	VII *	PDE
1976	09	07	14	03	06	37.0	69.4	72	5.1	4.8*		5.0*	VII *	PDE
1976	10	17	07	39	52	37.2	71.7	117	4.9	4.5*		4.8*	VII *	PDE
1976	10	29	15	16	39	36.4	71.2	154	4.7	4.2*		4.7*	VII *	PDE
1976	11	17	17	23	24	36.5	71.2	233	5.4	5.3*		5.2*	VII *	PDE
1976	11	27	15	12	10	36.2	71.4	111	4.9	4.5*		4.8*	VII *	PDE
1976	11	27	21	42	12	36.5	71.0	190	6.1	6.4*		5.7*	V	PDE
1976	12	04	16	44	04	39.0	71.4	5	4.9*	4.3*	4.5	3.9	VI *	SSR
1976	12	19	19	14	35	39.0	70.4	9	4.9*	4.4*	4.6	4.4	VI *	SSR
1977	01	14	15	46	11	36.6	71.4	149	4.8	4.3*		4.8*	VII *	PDE
1977	01	23	22	22	60	36.6	71.0	218	4.7	4.2*		4.7*	VII *	PDE
1977	02	06	04	00	47	36.6	71.0	187	4.8	4.3*		4.8*	VII *	PDE
1977	02	12	04	49	16	37.0	71.3	98	5.4	5.3*		5.2*	VII *	PDE
1977	02	17	19	00	39	37.5	69.1	59	5.0	4.6*		4.9*	VII *	PDE
1977	03	04	22	58	48	36.8	72.0	50	5.0	4.6*		4.9*	VII *	PDE
1977	03	09	10	59	16	38.0	69.5	14	5.0	4.6*		4.9*	III	PDE
1977	03	09	23	36	52	37.2	70.5	72	4.7	4.2*		4.7*	VII *	PDE
1977	03	21	07	35	28	36.5	71.4	123	4.9	4.5*		4.8*	VII *	PDE
1977	04	02	00	06	30	36.5	71.4	222	5.3	5.1*		5.1*	III	PDE
1977	04	08	04	46	03	36.6	71.0	243	4.8	4.3*		4.8*	VII *	PDE
1977	04	16	11	27	13	37.1	69.7	15	4.9	4.5*		4.8*	VII *	PDE
1977	05	04	02	37	44	36.9	71.4	122	5.3	5.1*		5.1*	IV	PDE
1977	05	06	00	16	06	36.6	71.3	237	4.6	4.0*		4.6*	VI *	PDE
1977	05	17	09	30	55	36.4	71.1	116	5.0	4.6*		4.9*	VII *	PDE
1977	06	01	20	07	30	38.5	70.1	55	4.6	4.0*		4.6*	VI *	PDE
1977	06	11	03	44	30	37.3	71.9	122	4.8	4.3*		4.8*	VII *	PDE
1977	06	13	13	40	50	36.4	71.3	121	5.0	4.6*		4.9*	VII *	PDE
1977	06	20	03	07	43	38.9	71.1	39	4.8	4.3*		4.8*	VII *	PDE
1977	06	21	21	33	49	36.4	71.2	143	4.7	4.2*		4.7*	VII *	PDE
1977	07	01	14	44	10	36.4	71.1	257	4.7	4.2*		4.7*	VII *	PDE
1977	07	04	21	01	59	37.4	71.9	150	5.1	4.8*		5.1	VII *	SSR
1977	07	08	05	25	27	36.6	71.2	212	4.9	4.5*		4.8*	VII *	PDE
1977	07	11	16	51	07	36.4	71.2	124	4.9	4.5*		4.8*	VII *	PDE
1977	07	12	11	07	58	36.5	71.1	207	4.6	4.0*		4.6*	VI *	PDE
1977	07	26	02	11	53	37.1	71.5	113	4.8	4.3*		4.8*	VII *	PDE
1977	08	06	10	12	51	38.6	70.2	60	4.6	4.0*		4.6*	VI *	PDE
1977	08	22	17	58	47	36.7	71.4	100	4.9	4.5*		4.8*	VII *	PDE
1977	08	26	04	51	18	36.6	71.3	186	4.7	4.2*		4.7*	VII *	PDE
1977	09	05	16	22	19	37.1	71.4	61	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1977	09	09	21	05	13	36.5	71.3	97	5.1	4.8*		5.0*	VII *	PDE
1977	09	12	09	33	28	37.1	67.1	30	4.9	4.5*		4.8*	V	PDE
1977	09	25	10	16	36	36.6	71.4	200	4.7	4.2*		4.7*	VII *	PDE
1977	09	28	22	08	15	36.5	71.3	112	4.7	4.2*		4.7*	VII *	PDE
1977	10	13	20	38	54	37.4	71.8	140	4.8	4.3*		5.1	VII *	SSR
1977	11	19	11	51	14	36.4	71.3	97	4.8	4.3*		4.8*	VII *	PDE
1977	11	20	20	57	33	37.4	71.8	114	4.7	4.2*		4.7*	VII *	PDE
1977	11	22	06	56	14	36.5	71.2	120	4.9	4.5*		4.8*	VII *	PDE
1977	12	25	16	18	55	38.9	70.8	33	5.3	4.7		5.1*	V	PDE
1977	12	28	11	05	04	37.2	68.7	34	4.6	4.0*		4.6*	VI *	PDE
1978	01	24	10	07	51	37.3	71.8	126	4.8	4.3*		4.8*	VII *	PDE
1978	02	02	12	49	50	37.1	71.1	102	4.8	4.3*		4.8*	VII *	PDE
1978	02	11	07	17	08	36.5	71.5	122	5.0	4.6*		4.9*	VII *	PDE
1978	02	15	18	00	08	37.3	71.9	127	4.8	4.3*		4.8*	VII *	PDE
1978	02	17	23	18	01	36.3	71.0	119	5.0	4.6*		4.9*	III	PDE
1978	04	04	02	51	06	36.4	71.1	133	4.9	4.5*		4.8*	VII *	PDE
1978	04	21	15	22	58	36.6	71.3	227	5.9	6.1*		5.6*	V	PDE
1978	04	21	15	36	34	36.4	71.0	254	4.8	4.3*		4.8*	VII *	PDE
1978	05	16	03	40	46	37.7	69.9	12	4.7	4.2*		4.7*	VI	PDE
1978	05	24	22	13	56	36.5	71.4	89	4.7	4.2*		4.7*	III	PDE
1978	07	10	06	58	58	36.4	71.1	219	4.6	4.0*		4.6*	VI *	PDE
1978	08	03	02	25	17	36.6	71.0	240	5.1*	4.8*		5.0	VII *	SSR
1978	08	08	00	01	46	36.6	71.1	220	5.2	5.0*		5.0*	VII *	PDE
1978	09	09	09	26	29	36.5	71.4	116	4.8	4.3*		4.8*	VII *	PDE
1978	09	26	19	21	47	39.0	70.8	15	4.9	4.4		4.8*	VII *	PDE
1978	11	07	03	04	54	37.2	71.8	125	5.0	4.6*		4.9*	III	PDE
1978	11	07	22	07	22	37.3	71.4	111	4.8	4.3*		4.8*	VII *	PDE
1978	11	17	12	59	33	38.5	70.5	26	5.0	4.0		4.9*	VII *	PDE
1978	12	30	05	06	54	38.5	70.6	10	4.9	4.0		4.8*	VII •	PDE
1979	01	01	21	29	59	37.9	70.1	51	4.8	4.3*		4.8*	V	PDE
1979	02	07	04	18	51	36.5	71.5	123	5.2	5.0*		5.0*	III	PDE
1979	02	15	08	14	44	37.4	69.4	29	4.7	4.2*		4.7*	IV	PDE
1979	02	19	16	45	26	37.7	71.8	45	4.6	4.3		4.6*	IV	PDE
1979	03	22	21	12	03	36.4	71.0	205	4.6	4.0*		4.6*	VI *	PDE
1979	06	26	03	04	52	36.5	71.2	229	5.7	5.8*		5.4*	III	PDE
1979	07	19	04	37	12	37.2	71.8	100	4.8	4.3*		4.8*	VII *	PDE
1979	08	14	04	51	28	37.0	71.6	121	4.7	4.2*		4.7*	VII *	PDE
1979	08	24	09	24	39	36.5	71.1	149	4.6	4.0*		4.6*	VI *	PDE
1979	08	29	05	25	56	37.0	71.5	101	4.8	4.3*		4.8*	IV	PDE
1979	10	20	19	40	41	39.0	70.5	25	4.8	4.2		4.8*	IV	PDE
1979	10	23	15	27	28	36.6	71.2	212	4.7	4.2*		4.7*	VII *	PDE
1979	12	12	10	03	38	37.0	71.3	72	5.0	4.6*		4.9*	III	PDE
1980	01	08	16	38	47	36.4	71.1	211	4.6	4.0*		4.6*	VI *	PDE
1980	01	15	04	17	48	36.3	71.4	98	4.9	4.5*		4.8*	VII *	PDE
1980	02	01	18	51	55	36.8	71.3	93	5.0	4.6*		4.9*	VII *	PDE
1980	02	04	11	02	45	36.9	71.5	89	4.7	4.2*		4.7*	VII *	PDE
1980	02	14	10	37	11	37.0	69.3	82	4.9	4.5*		4.8*	VII *	PDE
1980	02	14	11	39	24	37.1	69.5	66	4.7	4.2*		4.7*	VII •	PDE
1980	04	10	02	24	47	37.9	70.2	78	4.6	4.0*		4.6*	VI *	PDE
1980	06	11	10	46	48	36.8	71.5	103	4.8	4.3*		4.8*	VII *	PDE
1980	07	18	06	05	45	36.6	71.4	182	5.1	4.8*		5.0*	VII *	PDE
1980	09	02	13	24	60	36.4	71.3	104	4.7	4.2*		4.7*	VII •	PDE
1980	09	04	04	49	58	36.3	71.6	105	4.9	4.5*		4.8*	VII *	PDE
1980	10	13	08	58	47	37.1	71.5	124	4.7	4.2*		4.7*	VII *	PDE
1980	10	29	12	57	25	36.9	71.1	134	4.8	4.3*		4.8*	VII *	PDE
1980	11	24	20	26	11	37.3	71.8	95	4.6	4.0*		4.6*	VI *	PDE
1981	01	04	22	33	40	37.2	71.7	142	4.7	4.2*		4.7*	VII *	PDE
1981	01	05	16	40	49	36.4	71.3	131	4.8	4.3*		4.8*	VII *	PDE
1981	01	10	13	14	52	36.4	71.4	137	5.5	5.4*		5.3*	VII *	PDE
1981	02	16	20	03	21	36.4	71.1	247	4.8	4.3*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1981	02	27	15	50	54	36.5	71.2	232	4.7	4.2*		4.7*	VII *	PDE
1981	03	02	02	26	54	36.6	71.6	72	4.7	4.2*		4.7*	VII *	PDE
1981	03	04	00	55	03	36.3	71.3	112	4.9	4.5*		4.8*	III	PDE
1981	03	09	18	57	40	37.3	71.7	54	4.9	4.5*		4.8*	III	PDE
1981	03	19	09	59	48	38.9	70.5	33	4.7	4.2*		4.7*	III	PDE
1981	04	14	03	03	06	39.0	71.6	67	4.7	4.2*		4.7*	III	PDE
1981	04	21	13	43	14	36.5	71.2	226	4.7	4.2*		4.7*	III	PDE
1981	05	02	16	04	56	36.4	71.1	229	6.3	6.7*		5.9*	V	PDE
1981	07	01	11	33	55	37.4	69.8	36	4.7	4.2*		4.7*	III	PDE
1981	07	21	23	56	14	36.3	71.2	130	4.7	4.2*		4.7*	III	PDE
1981	08	13	20	05	30	36.3	71.2	108	4.6	4.0*		4.6*	VI *	PDE
1981	08	16	18	16	12	36.4	71.4	117	4.7	4.2*		4.7*	IV	PDE
1981	09	01	06	26	26	36.5	71.1	92	4.6	4.0*		4.6*	VI *	PDE
1981	11	06	15	12	09	37.3	71.7	125	4.7	4.2*		4.7*	VII *	PDE
1981	11	30	04	15	38	38.7	71.1	33	4.6	4.0*		4.6*	VI *	PDE
1982	01	30	14	38	37	36.6	71.5	33	4.7	4.2*		4.7*	VII *	PDE
1982	02	01	15	00	26	37.4	71.7	94	4.9	4.5*		4.8*	VII *	PDE
1982	02	27	19	22	35	36.6	71.6	289	4.6	4.0*		4.6*	VI *	PDE
1982	02	28	23	08	30	37.3	71.7	117	4.8	4.3*		4.8*	VII *	PDE
1982	04	13	02	25	09	37.3	69.2	33	4.6	4.0*		4.6*	III	PDE
1982	04	22	06	11	21	37.5	69.8	33	4.8	4.3*		4.8*	II	PDE
1982	05	14	12	43	02	36.7	71.3	58	4.6	4.0*		4.6*	IV	PDE
1982	07	02	07	03	49	36.7	71.1	231	5.2	5.0*		5.0*	IV	PDE
1982	08	07	15	03	58	36.4	71.3	139	4.8	4.3*		4.8*	III	PDE
1982	09	22	12	01	17	36.4	71.4	86	4.9	4.5*		4.8*	VII *	PDE
1982	10	08	18	59	15	37.2	72.0	82	4.9	4.5*		4.8*	VII *	PDE
1982	10	12	04	49	38	37.2	69.7	33	4.6	4.0*		4.6*	III	PDE
1982	10	16	08	46	55	36.5	71.3	221	4.6	4.0*		4.6*	VI *	PDE
1982	12	21	23	35	26	37.2	71.8	145	4.8	4.3*		4.8*	III	PDE
1982	12	24	08	47	09	37.1	71.8	136	4.6	4.0*		4.6*	VI *	PDE
1983	01	04	23	11	53	37.1	71.3	130	4.6	4.0*		4.6*	VI *	PDE
1983	01	24	21	02	57	36.6	71.3	173	4.6	4.0*		4.6*	VI *	PDE
1983	01	27	17	08	16	36.5	71.1	55	4.6	4.0*		4.6*	VI *	PDE
1983	02	12	05	17	07	36.6	71.2	227	4.6	4.0*		4.6*	VI *	PDE
1983	02	26	20	07	50	38.8	70.7	49	5.3	5.2		5.1*	VII	PDE
1983	03	23	12	11	23	37.0	71.5	116	5.2	5.0*		5.0*	VII *	PDE
1983	04	04	00	45	07	38.5	70.3	33	4.6	4.0*		4.6*	IV	PDE
1983	04	06	02	08	12	36.4	71.4	99	4.8	4.3*		4.8*	VII *	PDE
1983	04	06	22	18	48	38.9	71.5	33	5.2	4.7		5.0*	V	PDE
1983	04	14	06	09	37	36.4	71.2	215	4.6	4.0*		4.6*	VI *	PDE
1983	05	08	01	14	46	36.3	71.7	141	4.6	4.0*		4.6*	VI *	PDE
1983	05	11	13	41	43	37.2	68.4	33	4.7	4.2*		4.7*	VII *	PDE
1983	05	14	09	50	15	36.5	71.6	33	4.7	4.2*		4.7*	VII *	PDE
1983	05	18	23	31	25	37.7	71.3	33	4.6	4.0*		4.6*	VI *	PDE
1983	06	17	02	32	51	36.7	71.6	33	4.6	4.0*		4.6*	VI *	PDE
1983	06	19	04	05	53	36.6	71.4	33	4.8	4.3*		4.8*	VII *	PDE
1983	07	13	11	09	40	36.4	71.2	103	4.8	4.3*		4.8*	VII *	PDE
1983	09	12	15	42	09	36.5	71.1	209	6.1	6.4*		5.7*	VIII*	PDE
1983	09	20	14	15	47	36.5	71.2	215	4.8	4.3*		4.8*	VII *	PDE
1983	09	28	10	23	31	36.2	71.4	33	5.0	4.6*		4.9*	VII *	PDE
1983	10	01	07	15	18	38.6	70.4	33	4.8	4.3*		4.8*	VII *	PDE
1983	10	30	01	45	51	36.4	71.4	132	5.6	5.6*		5.3*	IV	PDE
1983	11	24	11	02	03	36.3	71.2	76	5.2	5.0*		5.0*	VII *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1902	10	06	09	15		36.5	70.5	200	5.8*	6.5	7.1	7.2	IX *	SSR
1906	10	24	15	39	30	36.5	68.0	32	6.0*	6.9	6.8	6.8	VIII	SSR
1907	04	13	07	10		36.5	70.5	30	5.3*	5.3		5.3	VI	SSR
1907	**04**	**13**	**17**	**57**		**36.5**	**70.5**	**260**	**6.0***	**7.0**		**5.7***	**VIII***	
1907	12	25	22	36		36.5	70.5	240	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1908	03	12	19	26	24	36.5	70.5	200	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1908	04	16	17	38	48	36.5	70.5	220	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1908	**10**	**23**	**20**	**14**		**36.5**	**70.5**	**220**	**6.0***	**7.0**		**5.7***	**VIII***	
1908	10	24	21	16	36	36.5	70.5	220	5.9*	6.8*	7.0	5.6*	VII *	BDA
1909	**07**	**07**	**21**	**39**		**36.5**	**70.5**	**60**	**6.3***	**7.6**		**5.8***	**VIII***	
1911	01	01	10	17	53	36.5	66.5	50	5.9*	6.7	6.7	6.7	VII	SSR
1911	01	01	14	59	12	36.5	66.5	20	5.7*	6.3	6.4	6.3	VIII*	SSR
1911	**07**	**04**	**13**	**33**		**36.0**	**70.5**	**190**	**6.3***	**7.6**		**5.8***	**VIII***	
1912	04	25	10	27	48	36.5	70.5	220	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1912	05	22	23	08	18	36.5	70.5	220	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1912	06	01	00	31	18	36.5	70.5	200	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1912	08	23	21	14	30	36.5	70.5	200	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1912	11	28	20	55		36.5	70.5	230	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1915	06	03	08	08	36	36.5	70.5	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1916	04	21	13	56	22	36.5	70.5	220	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1921	05	20	00	43	20	36.0	70.5	220	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1921	**11**	**15**	**20**	**36**		**36.5**	**70.5**	**215**	**6.5***	**8.1**		**6.0***	**VIII***	\
1922	**12**	**06**	**13**	**55**		**36.5**	**70.5**	**230**	**6.2***	**7.5**		**5.8***	**VIII***	
1922	12	17	00	51	20	36.5	70.5	210	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1924	09	17	10	20	51	36.8	70.7	100	5.6*	6.0*	6.2	6.2	VIII*	SSR
1924	**10**	**13**	**16**	**17**		**36.0**	**70.5**	**220**	**6.2***	**7.3**		**5.8***	**VIII***	
1925	03	08	11	27	49	36.5	70.5	200	5.4*	5.4	5.6	5.7	VIII*	SSR
1925	08	06	07	15	29	36.5	70.5	250	5.2*	5.1*	5.3	5.3	VII *	SSR
1926	03	22	16	24	10	36.0	70.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1926	05	26	09	40	43	36.5	70.5	150	5.4*	5.6*	5.8	5.8	VIII*	SSR
1927	04	24	11	20	20	36.4	70.5	15	5.3*	5.2	5.1	5.1	VII *	SSR
1927	07	11	16	12	15	36.0	67.0	12	5.2*	4.9	5.3	5.2	VII *	SSR
1927	07	15	03	46	43	36.5	70.5	250	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1927	10	07	21	34	30	36.0	69.5	15	5.2*	5.0	5.4	5.2	VII *	SSR
1928	06	24	04	34	38	36.0	70.5	120	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1928	08	10	15	33	48	36.5	70.5	230	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1929	**02**	**01**	**17**	**14**		**36.5**	**70.5**	**220**	**6.1***	**7.1**		**5.7***	**VIII***	
1929	03	13	11	01	37	36.5	70.0	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1929	09	24	13	52	17	36.7	70.7	200	5.4*	5.6		6.4	VII	SSR
1930	09	11	17	20	16	36.5	70.5	250	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1931	08	15	04	01	08	36.5	70.5	240	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1931	09	14	03	32	16	36.5	70.5	220	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1931	10	05	22	31	27	36.5	70.5	220	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1932	02	09	02	19	44	36.5	70.5	220	5.2*	5.0*	5.3 PAS	5.0*	VII *	G-R
1932	04	03	10	52	41	36.7	70.5	250	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1932	04	30	10	52	36	36.6	70.6	140	5.0*	4.6		5.4	VII *	SSR
1933	01	09	02	01	43	36.5	70.5	230	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1933	01	20	12	12	12	36.5	70.5	230	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1933	05	21	17	53	43	36.5	70.5	220	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1933	12	02	02	15	16	36.5	69.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1933	12	09	07	52	10	36.5	69.5		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	04	03	11	26	37	35.5	65.0		5.3*	5.4*	5.6 PAS	5.2*	VII *	G-R
1934	07	22	19	56	57	36.5	70.5	240	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1934	11	18	03	21	24	36.5	70.5	220	5.7*	6.3*	6.5 PAS	5.4*	VII *	G-R
1935	02	03	02	10	47	36.5	70.5	230	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1935	04	03	11	11	59	36.5	70.5	250	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1935	10	11	04	20	18	36.5	70.5	230	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1935	12	19	23	10	45	36.5	70.5	230	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1936	05	07	01	53	13	36.5	69.3	15	5.2*	5.1	5.7	5.4	VII *	SSR
1936	06	24	04	04	34	36.4	69.4	100	5.0*	4.6	6.0	5.6	VII *	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1937	10	29	07	26	30	36.5	70.5	230	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1937	**11**	**14**	**10**	**58**		**36.5**	**70.5**	**260**	**6.1***	**7.2**		**5.7***	**VIII***	
1938	01	18	09	29	02	36.5	70.5	250	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1938	01	26	10	48	12	36.5	70.5	250	5.2*	5.0*	5.3 PAS	5.0*	VII *	G-R
1938	04	06	01	14	30	36.5	70.5	240	5.2*	5.0*	5.3 PAS	5.0*	VII *	G-R
1939	09	06	11	27	32	36.6	66.5	30	5.3*	5.2		5.2	V	SSR
1939	10	10	20	42	30	36.3	69.0	15	5.2*	5.0		5.0	VII *	SSR
1939	**11**	**21**	**11**	**02**		**36.3**	**70.6**	**220**	**6.0***	**6.9**		**5.6***	**VIII***	
1939	12	19	00	02	31	36.5	70.5	220	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1940	02	08	15	15	20	36.5	70.5	220	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1940	03	19	04	35	50	35.7	70.0	50	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1940	07	17	11	44	44	36.8	70.7	15	5.4*	5.4	5.6	5.6	VII *	SSR
1940	09	01	18	46	29	36.1	69.0	15	5.3*	5.2	5.5	5.4	VII *	SSR
1940	09	21	13	49	03	36.5	70.5	250	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1940	11	04	08	30	12	36.5	70.7	210	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1940	11	20	17	59	59	36.0	70.5	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1940	12	25	23	07	33	36.5	70.5	250	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1941	04	26	07	08	03	36.8	70.2	180	5.3*	5.1*		5.3	VII *	SSR
1941	05	15	15	19	52	36.5	70.0	230	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1941	05	17	21	29	34	36.5	70.5	250	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1941	11	28	12	23	23	36.5	70.5	220	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1942	03	22	02	08	33	36.5	70.2	210	5.5*	5.8*	6.0 PAS	5.3*	VII *	G-R
1942	05	15	16	55	30	36.5	70.5	250	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1942	11	16	21	26	17	36.5	70.5	230	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1943	02	06	09	36	37	36.5	70.3	240	5.3*	5.2		6.0	VIII*	SSR
1943	**02**	**28**	**12**	**54**		**36.5**	**70.5**	**210**	**6.0***	**7.0**		**5.7***	**VIII***	
1943	09	09	04	06	10	36.5	70.5	200	5.6*	6.0*	6.3 PAS	5.4*	VII *	G-R
1943	12	12	15	54	21	36.0	70.5	230	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1944	11	14	23	18	10	36.5	70.5	200	5.3*	5.3*	5.5 PAS	5.1*	VII *	G-R
1944	12	08	06	44	18	36.4	70.9	200	5.0*	4.6	5.4	5.4	VII *	SSR
1947	01	30	12	32	42	36.5	70.5	200	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1947	09	20	18	56	35	36.2	69.2	15	5.2*	5.0*		5.2	VII *	SSR
1947	11	08	16	26	01	36.9	68.0	15	5.2*	5.0		5.0	VII *	SSR
1947	12	07	01	44	18	36.7	70.5	200	5.2*	4.9	5.6	5.7	V	SSR
1948	01	28	15	51	20	36.8	67.2	70	5.7*	6.3	6.1	6.2	VIII*	SSR
1948	09	07	08	15	22	36.9	70.6	220	5.6*	5.9	6.2	6.4	VIII*	SSR
1949	**03**	**04**	**10**	**19**		**36.0**	**70.5**	**230**	**6.2***	**7.5**		**5.8***	**VIII***	
1949	05	10	09	13	25	36.9	69.9	180	4.9*	4.4	5.3	5.2	VII *	SSR
1951	10	04	05	43	05	36.6	70.6	200	4.9*	4.4	5.2	5.2	VII *	SSR
1952	07	05	17	19	51	36.7	70.5	223	5.0*	4.7*		4.9*	VII	ISS
1952	10	18	21	26	17	36.6	70.4	200	5.2*	4.9	5.1	5.0	VII *	SSR
1952	11	27	07	20	32	36.6	70.0	150	5.4*	5.4		6.2	VI	SSR
1953	11	05	08	21	38	36.5	70.6	200	5.2*	5.1	5.5	5.8	V	SSR
1954	04	11	10	53	32	36.6	70.6	200	5.4*	5.6		6.4	VI	SSR
1954	05	16	22	10	40	36.8	70.8	180	5.1*	4.8	5.4	5.6	VII *	SSR
1955	07	03	14	01	53	36.9	70.8	80	5.4*	5.5	6.3	6.3	VI	SSR
1955	07	28	03	06	10	36.7	66.7	40	5.2*	5.0		5.0	VII *	SSR
1956	04	06	07	11	36	36.5	70.7	200	5.6*	6.0	6.4	6.6	VIII	SSR
1956	06	08	04	07	26	35.0	67.5		5.4*	5.6*	5.8 KIR	5.2*	VII *	PDE
1956	**06**	**09**	**23**	**13**		**35.0**	**67.5**	**60**	**6.2***	**7.3**		**5.8***	**VIII***	
1956	06	10	01	01	35	35.0	67.5	20	5.4*	5.5		5.5	VII *	SSR
1956	06	10	03	33	04	35.0	67.5		5.1*	4.8*	5.0 MOS	5.0*	VII *	QUE
1956	06	11	02	57	13	35.1	67.4		5.2*	5.1*	5.3 UPP	5.1*	VII *	ISS
1956	09	08	15	39	48	36.7	70.1	180	5.1*	4.7		5.5	VII *	SSR
1957	03	10	03	30	23	36.6	70.5	140	5.1*	4.8		5.6	VII *	SSR
1957	03	24	12	05	15	36.7	70.9	200	5.2*	5.1		5.9	IV	SSR
1957	04	04	11	36	17	36.0	70.0		5.2*	5.0*	5.3 MOS	5.0*	VII *	PDE
1957	04	26	02	11	54	36.8	70.6	180	5.3*	5.2		6.0	V	SSR
1957	06	11	04	57	24	36.5	70.0	200	5.4*	5.6*	5.8 UPP	5.2*	VII *	PDE
1957	12	13	09	07	59	36.6	70.8	180	5.0*	4.6	5.0	5.2	VII *	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1958	02	17	05	18	42	36.5	70.6	180	5.5*	5.8		6.6	VI	SSR
1958	03	07	06	55	32	36.7	70.5	190	5.2*	5.0	5.4	5.6	VII *	SSR
1958	03	22	11	07	47	35.3	67.4	20	5.6*	5.9		5.9	VIII*	SSR
1958	03	28	12	06	24	36.5	70.9	188	5.9*	6.8*	7.0 UPP	5.6*	VII *	ISS
1958	04	30	08	16	48	36.5	70.9	186	5.5*	5.8*	6.0 QUE	5.3*	VII *	ISS
1958	05	30	01	10	17	36.8	70.6	200	5.0*	4.5	5.2	5.2	VII *	SSR
1958	08	08	12	52	09	36.8	70.8	210	5.2*	5.0		5.8	IV	SSR
1958	09	25	06	54	05	36.9	69.9	220	5.2*	4.9	5.3	5.5	VII *	SSR
1959	02	01	03	13	35	36.6	70.9	234	5.3*	5.3*	5.5 QUE	5.1*	VII *	ISS
1959	03	02	15	51	41	36.4	70.6	213	5.8*	6.4*	6.6 QUE	5.5*	VII *	ISS
1959	04	22	03	36	45	36.0	69.3	160	5.2*	4.9	5.4	5.5	VII *	SSR
1959	08	30	22	56	57	36.5	67.8	20	5.3*	5.3	5.4	5.3	VII *	SSR
1959	12	15	10	47	39	36.3	69.8	20	5.2*	5.1	4.8	5.0	VII *	SSR
1960	01	09	07	24	05	36.7	70.1	210	5.4*	5.6	5.8	6.3	VIII*	SSR
1960	01	29	07	33	44	36.5	70.5	200	5.6*	5.9*	6.1 QUE	5.3*	VII *	PDE
1960	02	08	18	54	28	36.7	70.3	70	5.3*	5.2	4.6	5.1	VII *	SSR
1960	02	19	10	36	46	36.0	70.5	200	5.7*	6.2*	6.4 MAT	5.4*	VII *	PDE
1960	04	20	19	23	10	36.7	70.7	180	5.0*	4.5	5.0	5.2	VII *	SSR
1960	07	06	05	16	44	36.5	70.5	200	5.8*	6.4*	6.6 QUE	5.5*	VII *	PDE
1960	07	14	22	11	10	36.2	70.0	120	5.2*	5.1	5.4	5.9	VIII*	SSR
1960	07	17	05	14	35	36.7	70.0	25	5.3*	5.3	5.4	5.3	VII *	SSR
1960	08	14	22	37	11	36.0	69.4	50	5.1*	4.8*	5.0 MOS	5.0*	VII *	PDE
1960	11	10	01	54	57	36.6	70.7	160	5.1*	4.7		5.0	VII •	SSR
1961	05	27	05	14	54	36.4	70.8	200	5.0*	4.5*	4.8 MOS	4.9*	VII *	PDE
1961	06	14	17	31	46	36.6	68.1	220	4.9*	4.3*	4.5 MOS	4.8*	VII *	PDE
1961	06	19	17	04	37	36.5	70.9	200	5.8*	6.4*	6.6 QUE	5.5*	VII *	PDE
1961	09	28	05	00	45	36.8	70.5	200	5.3*	5.2	5.2	6.0	IV	SSR
1962	01	08	22	25	12	36.6	70.7	200	5.2*	4.9	5.1	5.5	VII *	SSR
1962	04	24	14	20	13	36.9	70.2	220	5.1*	4.8	4.8	5.6	VII *	SSR
1962	05	09	12	12	20	36.6	68.5	15	5.2*	5.0	5.0	5.0	VII *	SSR
1962	**07**	**06**	**23**	**05**		**36.8**	**70.1**	**210**	**6.0***	**7.0**		**5.7***	**VIII***	
1962	08	03	18	02	45	36.7	70.7	190	5.0*	4.6	4.9	5.4	VII *	SSR
1962	09	12	20	57	00	36.5	69.2	50	5.8*	6.4*	6.6 PAS	5.5*	VII *	PDE
1962	09	13	12	45	55	36.5	68.7		4.9*	4.3*	4.5	4.4	VI *	SSR
1962	09	14	13	16	25	36.5	68.8		4.9*	4.3*	4.5	4.4	VI *	SSR
1962	09	18	05	23	04	36.5	69.0		5.0*	4.5*	4.7	5.0	VII *	SSR
1962	09	22	08	06	27	36.5	68.7		5.1*	4.8*	5.0	5.0	VII *	SSR
1962	10	09	15	59	21	36.8	70.9	230	5.2*	4.9	5.0	5.4	IV	SSR
1962	11	26	01	41	08	36.6	70.0	160	5.2*	4.9	5.1	5.4	VII *	SSR
1963	01	12	06	20	18	36.6	70.0	48	5.2*	5.1	5.0	5.1	V	SSR
1963	02	16	12	19	30	36.5	70.4	208	5.4	5.3*		5.2*	VII *	PDE
1963	02	17	05	38	18	36.5	70.5	200	6.2	6.6*		5.8*	VIII*	PDE
1963	02	18	14	25	18	36.4	70.8	216	4.9	4.5*		4.8*	VII *	PDE
1963	04	01	09	22	51	35.5	69.8	91	4.8	4.3*		4.8*	VII *	PDE
1963	04	17	10	45	14	36.4	70.4		5.0*	4.5*	4.8	5.0	VII *	SSR
1963	07	14	10	51	43	36.1	70.6	120	5.1	4.8*		5.0*	VII *	PDE
1963	08	13	07	03	50	36.6	70.9	244	4.7	4.2*		4.7*	VII *	PDE
1963	09	29	10	39	58	36.4	70.4	214	4.8	4.3*		4.8*	VII *	PDE
1963	12	28	01	44	05	36.6	70.2	205	5.0	4.6*		4.9*	VII *	PDE
1964	01	28	14	09	17	36.5	70.9	207	6.1	6.4*		5.7*	VIII*	PDE
1964	02	18	17	08	10	36.3	70.7	223	5.0	4.6*		4.9*	VII *	PDE
1964	05	07	17	41	40	36.0	70.7	108	4.7	4.2*		4.7*	VII *	PDE
1964	05	24	16	36	05	35.8	70.8	164	5.0	4.6*		4.9*	VII *	PDE
1964	06	04	02	57	08	36.4	69.3	33	4.9	4.5*		4.8*	VII *	PDE
1964	09	19	00	39	11	36.5	70.0	212	4.7	4.2*		4.7*	VII *	PDE
1964	11	04	19	46	06	36.4	70.8	210	4.6	4.0*		4.6*	VI *	PDE
1964	11	15	17	12	44	36.5	70.9	220	5.0	4.6*		4.9*	VII *	PDE
1964	11	16	04	47	28	36.3	70.4	225	5.5	5.4*		5.3*	VII *	PDE
1964	11	27	11	03	48	36.3	70.7	219	5.2	5.0*		5.0*	VII *	PDE
1964	12	22	18	24	47	36.7	66.9		4.9*	4.3*	4.5	3.9	VI *	SSR

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1964	12	24	01	08	38	36.2	70.9	158	5.6	5.6*		5.3*	VII *	PDE
1964	12	30	23	37	41	36.4	69.9	123	5.3	5.1*		5.1*	VII *	PDE
1965	02	16	20	46	37	36.3	70.8	190	5.3	5.1*		5.1*	VII *	PDE
1965	03	14	11	41	53	36.5	68.4	86	4.9	4.5*		4.8*	VII *	PDE
1965	**03**	**14**	**15**	**53**		**36.3**	**70.7**	**219**	**6.3***	**7.6**		**5.8***	**VIII***	
1965	03	18	16	31	02	36.9	70.7	200	4.7	4.2*		4.7*	VII *	PDE
1965	04	02	22	26	47	36.8	66.6	38	5.5	5.4*		5.3*	VII *	PDE
1965	04	24	20	01	56	35.9	65.3	33	5.0	4.6*		4.9*	VII *	PDE
1965	04	25	02	27	46	36.3	70.5	231	4.7	4.2*		4.7*	VII *	PDE
1965	04	26	03	24	34	36.3	70.2	239	4.6	4.0*		4.6*	VI *	PDE
1965	05	26	08	47	22	36.3	70.5	229	4.6	4.0*		4.6*	VI *	PDE
1965	05	28	09	31	19	36.7	70.1	286	5.0	4.6*		4.9*	VII *	PDE
1965	05	30	11	38	41	36.5	70.1	220	4.9	4.5*		4.8*	VII *	PDE
1965	06	06	20	29	57	36.0	70.3	121	4.6	4.0*		4.6*	VI *	PDE
1965	06	10	05	48	57	36.1	70.5	92	5.8	5.9*		5.5*	VII *	PDE
1965	06	10	14	04	53	36.4	70.5	207	4.6	4.0*		4.6*	VI *	PDE
1965	07	12	13	52	39	36.4	70.7	212	5.0	4.6*		4.9*	VII *	PDE
1965	07	13	23	09	53	36.5	70.7	200	5.0	4.6*		4.9*	VII *	PDE
1965	08	03	07	02	35	36.2	69.4	37	4.9	4.5*		4.8*	VII *	PDE
1965	09	09	23	31	22	36.4	70.7	212	4.6	4.0*		4.6*	VI *	PDE
1965	09	14	18	57	28	36.5	70.1	233	4.8	4.3*		4.8*	VII *	PDE
1965	10	03	21	57	52	36.4	70.7	209	4.6	4.0*		4.6*	VI *	PDE
1965	10	06	15	35	05	36.5	70.2	218	5.3	5.1*		5.1*	VII *	PDE
1965	10	09	03	06	12	36.5	70.7	212	4.9	4.5*		4.8*	VII *	PDE
1965	10	09	07	48	14	36.0	70.5	116	4.6	4.0*		4.6*	VI *	PDE
1965	10	21	02	45	53	36.4	69.7	161	4.8	4.3*		4.8*	VII *	PDE
1965	12	03	21	17	41	36.3	69.4	74	5.4	5.3*		5.2*	VII *	PDE
1965	12	12	10	26	56	36.3	70.4	69	4.8	4.3*		4.8*	VII *	PDE
1965	12	19	14	28	52	36.3	69.2	60	4.6	4.0*		4.6*	VI *	PDE
1966	01	18	12	14	52	36.5	70.9	189	4.7	4.2*		4.7*	VII *	PDE
1966	02	19	12	50	43	35.1	70.8	68	5.1	4.8*		5.0*	VII *	PDE
1966	03	01	04	59	50	36.7	69.0	40	4.6	4.0*		4.6*	VI *	PDE
1966	03	31	23	38	01	36.4	70.8	207	5.4	5.3*		5.2*	VII *	PDE
1966	04	08	22	15	03	36.4	70.8	200	4.7	4.2*		4.7*	VII *	PDE
1966	04	13	03	00	21	36.4	70.8	201	4.6	4.0*		4.6*	VI *	PDE
1966	05	15	17	16	17	36.6	70.9	226	4.6	4.0*		4.6*	VI *	PDE
1966	05	30	12	51	58	36.0	68.8	220	4.6	4.0*		4.6*	VI *	PDE
1966	06	04	05	11	55	36.4	70.7	213	5.4	5.3*		5.2*	VII *	PDE
1966	06	21	19	46	45	36.5	70.7	182	4.7	4.2*		4.7*	VII *	PDE
1966	08	16	02	16	20	36.5	70.8	199	5.5	5.4*		5.3*	VII *	PDE
1966	08	28	10	43	02	36.4	70.9	180	4.8	4.3*		4.8*	VII *	PDE
1966	09	08	12	18	15	36.5	70.4	225	4.8	4.3*		4.8*	VII *	PDE
1966	09	17	08	40	59	36.4	70.7	204	4.8	4.3*		4.8*	VII *	PDE
1966	10	29	14	46	55	36.9	70.0	45	4.9	4.5*		4.8*	VII *	PDE
1966	11	02	00	59	08	36.8	69.1	34	4.6	4.0*		4.6*	VI *	PDE
1966	11	19	20	29	43	36.1	70.6	123	4.6	4.0*		4.6*	VI *	PDE
1966	11	20	02	59	49	35.0	69.3	79	4.8	4.3*		4.8*	VII *	PDE
1966	12	06	02	30	53	36.3	69.4	51	5.0	4.6*		4.9*	VII *	PDE
1966	12	06	23	29	48	36.5	70.3	239	4.7	4.2*		4.7*	VII *	PDE
1966	12	23	02	11	24	36.4	70.9	83	5.1	4.8*		5.0*	VII *	PDE
1966	12	26	01	28	01	36.2	69.8	128	5.0	4.6*		4.9*	VII *	PDE
1967	02	12	16	06	48	35.9	70.9	96	5.1	4.8*		5.0*	VII *	PDE
1967	02	14	17	37	29	36.0	69.3	128	4.8	4.3*		4.8*	VII *	PDE
1967	02	16	15	34	52	35.9	68.7	38	4.9	4.5*		4.8*	VII *	PDE
1967	02	26	15	24	04	36.0	68.9	30	4.7	4.2*		4.7*	VII *	PDE
1967	03	11	06	31	08	36.4	70.8	215	5.0	4.6*	5.6 UPP	4.9*	VII *	PDE
1967	03	14	14	35	13	36.4	70.4	216	4.7	4.2*		4.7*	VII *	PDE
1967	05	02	09	01	29	36.6	71.0	219	4.6	4.0*		4.6*	VI *	PDE
1967	05	05	03	11	26	36.0	68.8	34	4.7	4.2*		4.7*	VII *	PDE
1967	05	08	18	48	05	36.5	70.1	212	5.0	4.6*	5.8 UPP	4.9*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1967	05	21	18	34	44	35.9	69.7	92	4.8	4.3*		4.8*	VII *	PDE
1967	07	19	17	28	32	36.5	70.3	223	4.7	4.2*		4.7*	VII *	PDE
1967	07	29	14	12	19	35.5	70.8	194	4.6	4.0*		4.6*	VI *	PDE
1967	08	15	07	40	29	36.3	70.2	189	4.7	4.2*		4.7*	VII *	PDE
1967	09	18	08	26	37	35.9	70.4	140	4.8	4.3*		4.8*	VII *	PDE
1967	11	29	05	19	01	36.4	70.8	228	4.8	4.3*		4.8*	VII *	PDE
1967	12	09	04	56	14	36.3	70.8	225	4.8	4.3*		4.8*	VII *	PDE
1967	12	29	06	24	50	36.3	70.2	230	4.7	4.2*		4.7*	VII *	PDE
1968	01	29	05	00	10	36.3	70.4	225	5.5	5.4*		5.3*	VII *	PDE
1968	01	30	08	17	32	36.4	70.7	205	5.2	5.0*		5.0*	VII *	PDE
1968	02	07	12	23	03	36.2	70.7	155	4.9	4.5*		4.8*	VII *	PDE
1968	03	26	15	03	06	36.1	70.1	157	4.7	4.2*		4.7*	VII *	PDE
1968	03	29	19	00	35	36.6	70.4	209	4.7	4.2*		4.7*	VII *	PDE
1968	04	12	10	33	51	36.9	69.0		4.9*	4.4*	4.6	4.4	VI *	SSR
1968	05	06	20	49	46	36.5	70.8	231	5.0	4.6*		4.9*	VII *	PDE
1968	05	14	02	41	16	36.1	70.9	128	4.7	4.2*		4.7*	VII *	PDE
1968	06	05	00	09	41	36.1	66.2	33	4.8	4.3*		4.8*	VII *	PDE
1968	08	26	18	23	41	36.4	70.7	203	5.0	4.6*		4.9*	VII *	PDE
1968	09	03	18	48	16	36.2	69.2	75	5.3	5.1*		5.1*	VII *	PDE
1968	09	10	17	18	09	36.3	70.8	223	5.0	4.6*		4.9*	VII *	PDE
1968	10	11	03	16	50	36.0	69.5	185	4.7	4.2*		4.7*	VII *	PDE
1968	10	12	23	20	19	36.4	70.8	203	5.3	5.1*		5.1*	VII *	PDE
1968	11	21	03	04	39	36.4	70.6	204	5.0	4.6*		4.9*	VII *	PDE
1968	12	08	18	36	43	36.5	71.0	187	4.8	4.3*		4.8*	VII *	PDE
1968	12	16	00	29	30	36.0	71.0	103	5.0	4.6*		4.9*	VII *	PDE
1968	12	19	05	17	52	36.1	70.1	151	5.4	5.3*		5.2*	VII *	PDE
1968	12	23	23	20	00	36.4	70.6	225	4.7	4.2*		4.7*	VII *	PDE
1969	03	05	19	33	23	36.4	70.7	208	5.9	6.1*		5.6*	V	PDE
1969	03	10	19	04	03	36.4	71.0	201	5.1	4.8*		5.0*	IV	PDE
1969	04	01	05	49	08	36.3	70.8	212	4.6	4.0*		4.6*	VI *	PDE
1969	04	29	09	35	25	35.7	70.2	189	4.7	4.2*		4.7*	VII *	PDE
1969	05	21	15	31	60	36.4	70.2	229	5.0	4.6*		4.9*	VII *	PDE
1969	05	31	21	59	42	36.3	70.9	134	4.7	4.2*		4.7*	VII *	PDE
1969	06	10	22	52	12	36.4	70.7	203	5.4	5.3*		5.2*	VII *	PDE
1969	06	10	23	30	54	36.3	70.4	213	5.2	5.0*		5.0*	VII *	PDE
1969	06	29	12	44	05	36.3	70.6	223	4.8	4.3*		4.8*	VII *	PDE
1969	08	08	06	30	57	36.4	70.9	198	5.8	5.9*		5.5*	VII *	PDE
1969	09	04	02	57	19	36.5	70.9	221	4.8	4.3*		4.8*	III	PDE
1969	09	12	05	08	02	36.4	70.9	198	5.1	4.8*		5.0*	VII *	PDE
1969	09	21	19	09	54	36.0	69.3	72	4.7	4.2*		4.7*	VII *	PDE
1969	10	01	22	48	13	36.5	70.9	230	4.9	4.5*		4.8*	VII *	PDE
1969	10	04	15	55	49	35.0	70.5	195	4.7	4.2*		4.7*	VII *	PDE
1969	10	27	18	29	59	36.1	70.4	142	4.7	4.2*		4.7*	VII *	PDE
1969	10	28	18	45	11	36.5	70.9	229	5.0	4.6*		4.9*	VII *	PDE
1969	12	02	18	17	01	36.5	70.6	206	5.1	4.8*		5.0*	VII *	PDE
1969	12	15	03	46	12	36.3	68.0		4.9*	4.3*	4.5	4.4	VI *	SSR
1970	01	08	21	19	10	36.3	70.9	135	5.0	4.6*		4.9*	VII *	PDE
1970	01	26	16	38	32	36.5	70.4	224	4.7	4.2*		4.7*	VII *	PDE
1970	01	27	07	57	38	36.5	70.2	224	4.6	4.0*		4.6*	VI *	PDE
1970	02	23	22	37	37	36.0	70.4	137	5.0	4.6*		4.9*	VII *	PDE
1970	03	15	18	34	09	36.4	70.9	220	4.9	4.5*		4.8*	VII *	PDE
1970	03	24	15	45	58	36.1	68.8	54	4.8	4.3*		4.8*	VII *	PDE
1970	06	08	07	05	55	36.2	68.9	47	4.8	4.3*		4.8*	VII *	PDE
1970	07	12	10	04	37	36.4	70.2	203	4.7	4.2*		4.7*	VII *	PDE
1970	07	21	01	18	05	36.5	70.5	210	5.2	5.0*		5.0*	IV	PDE
1970	07	28	06	33	35	36.0	68.3	60	5.0	4.6*		4.9*	VII *	PDE
1970	08	21	15	25	57	36.1	68.5	98	5.2	5.0*		5.0*	VII *	PDE
1970	09	04	13	12	02	36.6	70.1	290	4.9	4.5*		4.8*	VII *	PDE
1970	09	14	16	11	16	36.4	70.1	219	5.1	4.8*		5.0*	VII *	PDE
1970	09	18	20	02	25	36.4	68.9	33	5.1	4.8*		5.0*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O	M_L	INTENSITY MAX	SOURCE CODE
1970	10	09	18	50	05	35.9	70.4	141	5.1	4.8*		5.0*	VII *	PDE
1970	11	05	16	50	17	36.3	70.8	213	4.8	4.3*		4.8*	VII *	PDE
1970	12	25	16	39	19	36.4	70.9	203	4.6	4.0*		4.6*	VI *	PDE
1970	12	26	07	58	42	36.4	70.9	197	5.1	4.8*		5.0*	VII *	PDE
1971	02	06	22	12	45	36.0	69.9	109	5.0	4.6*		4.9*	VII *	PDE
1971	05	24	00	22	21	36.0	70.7	113	4.6	4.0*		4.6*	VI *	PDE
1971	06	16	02	07	10	36.5	70.6	200	5.0*	4.6*	4.8	4.4	VI *	SSR
1971	06	22	06	30	00	36.2	69.9	166	4.9	4.5*		4.8*	VII *	PDE
1971	07	01	14	37	26	36.7	68.3	33	4.6	4.0*		4.6*	VI *	PDE
1971	07	25	01	15	34	36.4	70.7	213	4.9	4.5*		4.8*	VII *	PDE
1971	08	04	00	24	37	36.3	70.7	206	5.6	5.6*	5.3 BRK	5.3*	V	PDE
1971	08	04	01	59	03	36.4	70.8	206	5.0	4.6*		4.9*	VII *	PDE
1971	09	13	01	45	35	35.7	69.9	120	4.8	4.3*		4.8*	VII *	PDE
1971	09	26	23	48	25	36.3	70.2	229	4.6	4.0*		4.6*	VI *	PDE
1972	01	20	11	36	29	36.4	70.7	213	6.0	6.3*		5.6*	VIII*	PDE
1972	01	25	05	41	40	35.6	69.8	74	5.4	5.3*		5.2*	VII *	PDE
1972	02	22	01	14	48	36.4	70.6	212	5.3	5.1*		5.1*	V	PDE
1972	04	06	21	27	04	36.4	70.4	221	4.6	4.0*		4.6*	VI *	PDE
1972	05	28	16	52	28	35.9	70.8	92	4.6	4.0*		4.6*	VI *	PDE
1972	05	29	19	07	56	36.4	70.8	236	5.2	5.0*		5.0*	VII *	PDE
1972	06	24	15	29	22	36.2	69.7	47	6.0	6.1	5.8 BRK	5.6*	VIII*	PDE
1972	06	24	21	17	58	36.4	69.4	33	4.6	4.0*		4.6*	VI *	PDE
1972	06	25	07	55	45	36.3	69.6	46	4.7	4.2*		4.7*	VII *	PDE
1972	06	27	15	59	35	36.3	69.5	53	5.1	4.8*		5.0*	VII *	PDE
1972	07	11	05	54	44	36.4	70.7	206	5.4	5.3*		5.2*	VII *	PDE
1972	08	03	22	28	08	35.4	70.2	175	4.9	4.5*		4.8*	VII *	PDE
1972	08	11	09	09	56	36.6	70.7	271	4.7	4.2*		4.7*	VII *	PDE
1972	09	05	20	08	35	36.2	70.8	154	4.7	4.2*		4.7*	VII *	PDE
1972	09	30	06	59	60	36.4	70.6	204	4.9	4.5*		4.8*	VII *	PDE
1972	10	01	18	17	30	36.0	70.5	101	5.2	5.0*		5.0*	VII *	PDE
1972	10	13	23	30	16	36.4	65.0		4.9*	4.3*	4.5	4.4	VI *	SSR
1972	11	16	12	43	06	35.7	69.9	124	5.6	5.6*		5.3*	VII *	PDE
1973	01	12	23	39	26	36.0	70.6	126	5.2	5.0*		5.0*	VII *	PDE
1973	02	08	02	28	04	36.7	68.4	33	5.3	5.1*		5.1*	VII *	PDE
1973	02	14	12	28	33	36.5	70.8	189	4.8	4.3*		4.8*	VII *	PDE
1973	03	25	18	55	34	35.5	70.3	86	4.8	4.3*		4.8*	VII *	PDE
1973	04	04	07	38	05	35.6	69.6	112	4.7	4.2*		4.7*	VII *	PDE
1973	04	12	08	31	08	36.4	70.8	189	4.9	4.5*		4.8*	VII *	PDE
1973	05	06	13	22	47	36.4	70.4	234	4.6	4.0*		4.6*	VI *	PDE
1973	05	12	22	25	04	35.6	69.7	96	5.1	4.8*		5.0*	IV	PDE
1973	06	06	15	51	17	36.3	70.6	220	5.1	4.8*		5.0*	VII *	PDE
1973	06	14	18	20	29	36.4	70.8	203	5.0	4.6*		4.9*	VII *	PDE
1973	08	06	01	17	55	36.4	70.1	222	5.4	5.3*		5.2*	VII *	PDE
1973	08	15	15	09	09	36.4	70.8	200	4.8	4.3*		4.8*	VII *	PDE
1973	09	22	11	36	03	36.0	70.5	117	5.0	4.6*		4.9*	VII *	PDE
1973	09	25	13	00	18	36.4	70.8	200	5.1	4.8*		5.0*	VII *	PDE
1973	12	17	10	10	22	36.3	70.8	33	4.6	4.0*		4.6*	VI *	PDE
1974	01	11	02	03	50	36.3	70.8	159	4.8	4.3*		4.8*	VII *	PDE
1974	02	19	04	09	03	36.0	70.9	85	5.0	4.6*		4.9*	VII *	PDE
1974	04	26	23	00	08	35.9	70.2	80	5.0	4.6*		4.9*	VII *	PDE
1974	05	03	14	01	56	36.2	69.9	153	4.6	4.0*		4.6*	VI *	PDE
1974	05	13	17	40	28	36.5	70.9	208	5.5	5.4*		5.3*	VI	PDE
1974	05	17	13	45	14	36.5	70.9	208	5.3	5.1*		5.1*	VII *	PDE
1974	06	06	19	03	26	36.4	70.7	214	5.3	5.1*		5.1*	VII *	PDE
1974	07	04	21	27	33	36.4	70.8	202	4.6	4.0*		4.6*	VI *	PDE
1974	07	26	20	45	46	36.8	69.6	82	4.6	4.0*		4.6*	VI *	PDE
1974	**07**	**30**	**05**	**12**		**36.4**	**70.8**	**211**	**6.0***	**7.0**		**5.7***	**VIII***	
1974	08	09	18	04	07	35.9	70.2	139	4.6	4.0*		4.6*	VI *	PDE
1974	08	13	04	27	12	36.2	69.7	155	4.7	4.2*		4.7*	VII *	PDE
1974	08	22	15	26	37	36.2	71.0	109	5.0	4.6*		4.9*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1974	09	05	18	33	25	36.5	70.9	173	5.6	5.6*		5.3*	VII *	PDE
1974	10	03	11	11	58	36.5	70.7	198	5.0	4.6*		4.9*	VII *	PDE
1974	12	01	00	09	54	36.4	70.3	210	4.6	4.0*		4.6*	VI *	PDE
1974	12	10	01	41	06	36.5	70.5	204	5.5	5.4*		5.3*	V	PDE
1974	12	24	19	55	30	36.4	70.4	206	4.6	4.0*		4.6*	VI *	PDE
1974	12	30	04	47	44	36.0	69.7	116	5.3	5.1*		5.1*	VII *	PDE
1975	02	28	23	56	37	36.5	70.7	200	5.3	5.1*		5.1*	VII *	PDE
1975	03	03	09	48	24	36.4	70.9	201	5.3	5.1*		5.1*	V	PDE
1975	03	28	05	52	32	36.4	70.8	222	4.8	4.3*		4.8*	VII *	PDE
1975	04	06	10	17	09	35.6	70.5	148	4.8	4.3*		4.8*	VII *	PDE
1975	04	14	12	59	05	36.6	70.9	229	4.8	4.3*		4.8*	VII *	PDE
1975	05	14	22	23	03	36.1	70.9	99	5.5	5.4*		5.3*	III	PDE
1975	06	09	22	01	57	36.5	70.3	202	4.7	4.2*		4.7*	VII *	PDE
1975	06	28	04	26	33	36.5	70.2	217	4.9	4.5*		4.8*	VII *	PDE
1975	07	03	09	39	13	36.2	70.9	109	4.8	4.3*		4.8*	VII *	PDE
1975	08	25	10	46	30	36.6	69.2	32	5.2	5.0*		5.0*	VII *	PDE
1975	08	27	18	53	03	36.3	71.0	109	4.7	4.2*		4.7*	VII *	PDE
1975	09	21	06	18	49	36.5	70.7	201	4.6	4.0*		4.6*	VI *	PDE
1975	12	27	09	35	30	36.1	69.4	156	4.8	4.3*		4.8*	VII *	PDE
1975	12	30	06	57	47	36.4	70.9	220	4.8	4.3*		4.8*	VII *	PDE
1976	01	08	06	25	12	36.3	70.9	116	4.8	4.3*		4.8*	VII *	PDE
1976	01	23	01	26	05	36.1	70.9	92	5.1	4.8*		5.0*	VII *	PDE
1976	01	30	20	45	49	36.5	70.9	190	4.9	4.5*		4.8*	VII *	PDE
1976	02	26	11	19	27	36.5	70.9	191	4.8	4.3*		4.8*	II	PDE
1976	03	07	12	19	24	36.7	67.6	24	4.7	4.2*		4.7*	VII *	PDE
1976	03	12	23	28	21	36.3	70.2	162	4.7	4.2*		4.7*	VII *	PDE
1976	03	19	13	03	38	36.6	67.8	33	5.6	5.5		5.3*	VIII	PDE
1976	03	23	12	33	53	36.7	67.6	33	4.7	4.2*		4.7*	VII *	PDE
1976	03	24	17	58	39	36.5	70.0	230	4.7	4.2*		4.7*	III	PDE
1976	04	19	11	49	16	36.6	70.9	223	4.6	4.0*		4.6*	VI *	PDE
1976	05	05	03	57	05	36.4	70.7	150	4.8	4.3*		4.8*	VII *	PDE
1976	06	04	00	10	15	36.7	67.6	23	4.6	4.0*		4.6*	VI *	PDE
1976	06	16	15	29	18	36.5	69.7	172	4.8	4.3*		4.8*	VII *	PDE
1976	07	15	02	22	50	36.1	68.5		4.9*	4.4*	4.6	3.9	VI *	SSR
1976	07	24	14	43	34	36.4	70.8	212	4.8	4.3*		4.8*	VII *	PDE
1976	08	01	08	12	52	36.2	68.5	55	5.3	5.1*		5.1*	VII *	PDE
1976	09	25	12	47	15	36.7	68.2		5.1*	4.7*	4.9	4.4	VI *	SSR
1976	10	03	02	44	15	36.2	69.5	50	5.1	4.8*		5.0*	VII *	PDE
1976	10	11	00	02	23	36.0	70.4	108	4.6	4.0*		4.6*	VI *	PDE
1976	10	12	05	14	44	36.5	70.1	221	4.9	4.5*		4.8*	VII *	PDE
1976	10	13	06	24	17	35.9	70.8	104	5.0	4.6*		4.9*	VII *	PDE
1976	10	17	06	10	39	36.4	70.7	211	4.6	4.0*		4.6*	VI *	PDE
1976	10	23	11	10	12	35.9	70.3	264	4.7	4.2*		4.7*	VII *	PDE
1976	11	10	12	54	08	36.4	70.3	208	4.7	4.2*		4.7*	VII *	PDE
1976	11	20	04	19	36	36.3	69.2	36	4.8	4.3*		4.8*	VII *	PDE
1976	12	28	11	47	18	36.6	71.0	223	4.7	4.2*		4.7*	VII *	PDE
1977	01	16	00	30	08	35.9	70.7	89	5.0	4.6*		4.9*	VII *	PDE
1977	01	25	07	56	05	36.1	69.1	33	4.7	4.2*		4.7*	VII *	PDE
1977	02	09	21	39	35	36.5	70.7	220	4.6	4.0*		4.6*	VI *	PDE
1977	03	12	02	08	35	36.5	70.8	201	4.7	4.2*		4.7*	VII *	PDE
1977	03	14	17	49	01	36.4	69.7	70	4.6	4.0*		4.6*	VI *	PDE
1977	03	20	03	34	52	37.0	69.0	33	4.8	4.3*		4.8*	VII *	PDE
1977	03	31	19	04	28	36.1	69.7	129	4.6	4.0*		4.6*	VI *	PDE
1977	04	13	11	33	52	36.5	70.9	196	5.3	5.1*		5.1*	IV	PDE
1977	04	18	00	13	05	36.5	70.8	217	5.4	5.3*		5.2*	VII *	PDE
1977	04	23	21	51	25	36.4	70.9	274	4.7	4.2*		4.7*	VII *	PDE
1977	05	16	22	21	04	35.6	70.8	101	4.6	4.0*		4.6*	VI *	PDE
1977	05	31	07	38	24	36.2	69.6	139	4.7	4.2*		4.7*	VII *	PDE
1977	06	03	02	31	05	36.4	70.8	210	5.5	5.4*		5.3*	V	PDE
1977	06	20	01	48	49	36.1	70.5	111	4.7	4.2*		4.7*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1977	06	20	04	05	58	35.6	70.1	158	4.8	4.3*		4.8*	VII *	PDE
1977	06	24	23	58	02	36.5	70.4	209	4.7	4.2*		4.7*	VII *	PDE
1977	07	04	11	28	46	36.4	70.3	231	4.7	4.2*		4.7*	VII *	PDE
1977	07	18	14	22	53	35.5	70.3	69	5.2	5.0*		5.0*	VII *	PDE
1977	08	31	03	24	47	36.3	70.9	56	4.9	4.5*		4.8*	VII *	PDE
1977	08	31	18	20	04	36.4	68.9	44	4.9	4.5*		4.8*	VII *	PDE
1977	09	15	16	38	35	35.3	70.8	158	4.6	4.0*		4.6*	VI *	PDE
1977	09	16	16	02	52	36.5	70.7	200	4.6	4.0*		4.6*	VI *	PDE
1977	10	04	20	15	37	35.9	69.5	118	4.7	4.2*		4.7*	VII *	PDE
1977	11	05	04	06	59	36.6	69.1	68	4.6	4.0*		4.6*	VI *	PDE
1977	12	21	20	17	14	36.2	68.7	53	4.8	4.8		4.8*	VII *	PDE
1978	01	16	03	20	05	36.4	70.7	221	5.3	5.1*		5.1*	III	PDE
1978	02	13	15	36	58	36.0	70.2	111	4.7	4.2*		4.7*	VII *	PDE
1978	02	17	19	07	28	36.5	70.6	210	4.9	4.5*		4.8*	VII *	PDE
1978	06	20	05	20	45	35.9	70.5	78	4.6	4.0*		4.6*	VI *	PDE
1978	07	02	01	25	36	36.5	70.8	203	4.6	4.0*		4.6*	VI *	PDE
1978	07	26	00	41	01	37.0	70.0	46	4.8	4.3		4.8*	VII *	PDE
1978	07	27	08	15	15	36.9	69.8	33	4.8	4.2		4.8*	VII *	PDE
1978	08	01	06	20	43	36.1	70.6	96	5.2	5.0*		5.0*	VII *	PDE
1978	08	11	12	47	10	36.0	70.2	94	4.7	4.2*		4.7*	VII *	PDE
1978	10	23	08	07	32	36.5	71.0	185	5.6	5.6*		5.3*	IV	PDE
1978	10	28	21	34	51	36.5	70.1	191	4.6	4.0*		4.6*	VI *	PDE
1978	11	13	07	27	17	36.5	70.7	202	5.0	4.6*		4.9*	III	PDE
1978	12	11	21	12	51	36.4	70.9	143	4.8	4.3*		4.8*	VII *	PDE
1979	03	02	01	36	39	36.0	70.6	101	4.9	4.5*		4.8*	VII *	PDE
1979	03	13	04	10	25	35.6	71.0	72	4.8	4.3*		4.8*	VII *	PDE
1979	04	30	22	54	16	36.2	70.2	130	4.7	4.2*		4.7*	VII *	PDE
1979	05	07	08	08	40	36.4	70.7	227	4.7	4.2*		4.7*	VII *	PDE
1979	05	21	17	13	05	36.4	70.7	200	4.6	4.0*		4.6*	VI *	PDE
1979	06	07	13	46	43	36.3	68.4	34	4.6	4.0		4.6*	VI *	PDE
1979	06	20	11	56	21	36.4	70.7	206	5.3	5.1*		5.1*	V	PDE
1979	07	21	04	59	47	36.5	70.7	234	4.9	4.5*		4.8*	VII *	PDE
1979	08	12	01	11	55	36.6	71.0	224	4.6	4.0*		4.6*	VI *	PDE
1979	08	14	14	24	32	36.5	70.9	196	5.1	4.8*		5.0*	IV	PDE
1979	08	20	03	50	52	36.5	70.1	229	6.1	6.4*		5.7*	IV	PDE
1979	08	30	02	00	14	36.3	68.6	36	4.9	4.4		4.8*	VII *	PDE
1979	08	30	10	12	59	36.3	68.6	36	4.9	4.0		4.8*	III	PDE
1979	08	31	08	24	53	36.2	68.6	33	4.8	4.3		4.8*	VII *	PDE
1979	09	24	08	46	42	36.5	70.2	222	5.3	5.1*		5.1*	VII *	PDE
1979	09	30	06	39	29	36.3	70.7	141	4.6	4.0*		4.6*	II	PDE
1979	10	20	19	04	27	36.5	70.7	203	4.7	4.2*		4.7*	VII *	PDE
1979	10	26	07	19	01	36.5	70.4	204	4.7	4.2*		4.7*	VII *	PDE
1979	10	26	11	29	37	36.5	70.8	197	4.7	4.2*		4.7*	VII *	PDE
1979	11	19	16	32	35	36.4	70.9	201	4.7	4.2*		4.7*	VII *	PDE
1979	12	01	05	34	46	36.3	70.9	72	4.8	4.3*		4.8*	VII *	PDE
1980	02	27	23	35	38	36.2	71.0	129	4.7	4.2*		4.7*	III	PDE
1980	03	20	23	15	57	36.3	70.6	141	5.2	5.0*		5.0*	VII *	PDE
1980	03	22	19	33	19	36.8	69.2	75	4.6	4.0*		4.6*	VI *	PDE
1980	03	23	20	09	03	36.9	69.8	33	4.7	4.2*		4.7*	VII *	PDE
1980	04	14	10	17	20	36.3	69.6	61	5.3	5.1*		5.1*	VII *	PDE
1980	04	14	10	22	22	36.6	69.7	42	5.0	4.6*		4.9*	VII *	PDE
1980	05	01	01	33	22	36.1	69.1	57	4.9	4.5*		4.8*	VII *	PDE
1980	07	06	20	11	46	36.3	70.9	119	4.6	4.0*		4.6*	VI *	PDE
1980	08	18	18	01	30	36.5	70.9	186	5.0	4.6*		4.9*	VII *	PDE
1980	09	19	09	30	30	36.5	70.8	210	5.4	5.3*		5.2*	VII *	PDE
1980	11	12	02	08	59	35.9	70.7	100	4.8	4.3*		4.8*	VII *	PDE
1980	12	10	05	02	40	36.1	68.6	38	4.7	4.2*		4.7*	VII *	PDE
1981	01	08	07	31	29	36.4	69.3	84	4.6	4.0*		4.6*	VI *	PDE
1981	01	16	21	46	21	36.0	71.0	93	4.6	4.0*		4.6*	VI *	PDE
1981	03	23	09	48	48	36.5	70.2	222	4.9	4.5*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1981	04	21	08	37	07	36.4	70.7	207	4.9	4.5*		4.8*	III	PDE
1981	04	28	17	54	17	36.4	70.9	197	5.2	5.0*		5.0*	IV	PDE
1981	05	29	03	39	40	36.5	68.9	33	4.6	4.0*		4.6*	VI *	PDE
1981	06	07	13	56	02	36.4	70.9	209	4.6	4.0*		4.6*	VI *	PDE
1981	06	13	07	29	11	36.2	67.8	24	5.5	5.4		5.3*	VII *	PDE
1981	07	08	03	59	01	36.4	70.7	216	5.3	5.1*		5.1*	III	PDE
1981	09	04	15	27	12	35.5	70.3	103	5.0	4.6*		4.9*	VII *	PDE
1981	10	24	06	16	33	36.4	68.7	33	4.6	4.0		4.6*	VI *	PDE
1981	11	01	09	22	37	36.4	70.7	208	5.1	4.8*		5.0*	VII *	PDE
1981	11	23	21	30	28	36.4	70.7	229	5.0	4.6*		4.9*	IV	PDE
1981	12	17	21	24	57	36.1	69.9	137	4.7	4.2*		4.7*	II	PDE
1982	02	12	18	00	55	36.6	70.9	234	4.8	4.3*		4.8*	III	PDE
1982	04	11	19	19	54	36.4	70.8	197	4.8	4.3*		4.8*	III	PDE
1982	05	16	08	05	41	36.2	68.5	33	4.8	4.0		4.8*	VII *	PDE
1982	05	25	23	06	30	36.0	69.9	96	4.7	4.2*		4.7*	VII *	PDE
1982	06	25	01	35	58	36.1	69.9	104	4.6	4.0*		4.6*	VI *	PDE
1982	07	01	10	43	28	36.6	70.6	84	5.2	5.0*		5.0*	IV	PDE
1982	08	28	18	52	56	36.4	70.8	206	4.7	4.2*		4.7*	III	PDE
1982	09	02	10	03	48	36.5	70.6	210	4.9	4.5*		4.8*	VII *	PDE
1982	10	27	17	49	14	36.4	69.4	40	4.8	4.3*		4.8*	VII *	PDE
1982	11	08	08	08	41	35.5	69.5	106	4.7	4.2*		4.7*	VII *	PDE
1982	11	13	15	39	00	36.0	69.2	33	4.8	4.3		4.8*	VII *	PDE
1982	11	14	21	23	54	36.2	69.6	94	4.6	4.0*		4.6*	VI *	PDE
1982	12	01	07	23	00	36.1	69.3	36	4.7	4.2*		4.7*	VII *	PDE
1982	**12**	**16**	**00**	**41**		**36.2**	**69.1**	**35**	**5.9***	**6.6**		**5.5***	**VII ***	
1982	12	16	05	27	52	36.1	69.0	36	4.9	4.5*		4.8*	VII *	PDE
1982	12	16	21	01	30	36.2	68.9	33	4.9	4.0		4.8*	VII *	PDE
1982	12	25	08	14	09	35.7	69.5	83	4.7	4.2*		4.7*	VII *	PDE
1983	01	08	10	51	34	36.4	70.7	202	4.9	4.5*		4.8*	VII *	PDE
1983	01	25	20	06	37	36.4	70.9	184	5.0	4.6*		4.9*	III	PDE
1983	02	06	01	52	32	36.2	69.0	73	5.1	4.8*		5.0*	VII *	PDE
1983	03	28	23	06	53	35.5	70.6	26	4.8	4.3*		4.8*	VII *	PDE
1983	04	02	21	55	44	36.4	70.7	220	4.8	4.3*		4.8*	VII *	PDE
1983	04	08	16	09	35	36.5	70.8	233	4.6	4.0*		4.6*	VI *	PDE
1983	04	13	04	09	23	36.4	70.1	49	4.6	4.0*		4.6*	VI *	PDE
1983	04	14	09	11	56	36.0	69.0	34	4.6	4.0*		4.6*	VI *	PDE
1983	04	27	16	28	15	36.4	71.0	119	4.7	4.2*		4.7*	VII *	PDE
1983	04	30	22	18	51	36.2	70.8	64	4.6	4.0*		4.6*	VI *	PDE
1983	05	08	08	26	14	36.8	71.0	33	4.9	4.5*		4.8*	III	PDE
1983	05	10	19	05	19	36.5	70.1	218	5.1	4.8*		5.0*	VII *	PDE
1983	07	17	21	06	23	36.4	70.9	196	4.9	4.5*		4.8*	VII *	PDE
1983	09	23	19	51		36.5	70.4	208	4.8	4.3*		4.8*	VII *	PDE
1983	09	29	02	06	03	36.4	70.7	193	4.9	4.5*		4.8*	VII *	PDE
1983	10	02	09	27	47	36.3	70.3	218	4.7	4.2*		4.7*	VII *	PDE
1983	11	22	14	29	33	36.3	70.6	200	5.1	4.8*		5.0*	VII *	PDE
1983	12	07	04	53	50	36.0	70.8	116	4.9	4.5*		4.8*	VII *	PDE
1983	12	07	12	11	32	36.0	69.0	49	5.4	4.8		5.2*	II	PDE
1983	12	22	05	31	45	36.0	69.1	33	5.6	4.6		5.3*	III	PDE
1983	**12**	**30**	**23**	**53**		**36.4**	**70.7**	**154**	**6.1***	**7.2**		**5.7***	**VIII***	
1983	12	31	01	35	47	36.4	70.5	216	4.9	4.5*		4.8*	III	PDE
1983	12	31	05	19	04	36.4	70.3	213	4.8	4.3*		4.8*	III	PDE
1983	12	31	07	54	47	36.7	70.5	156	4.6	4.0*		4.6*	VI *	PDE
1983	12	31	08	42	29	36.8	70.5	147	4.6	4.0*		4.6*	VI *	PDE
1983	12	31	17	11	27	36.5	70.5	185	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_S	M_O	M_L	INTENSITY MAX	SOURCE CODE
1937	11	07	19	07	40	35.0	73.0	100	5.4*	5.5*	5.8 PAS	5.2*	VII *	G-R
1937	11	14	10	58	10	35.0	73.0	200	6.0*	6.9	7.2	7.3	IX	SSR
1938	05	24	09	37	26	36.7	73.8	15	5.2*	5.0	5.4	5.2	VII *	SSR
1943	09	24	11	31	37	36.5	74.0	120	5.8*	6.5*	6.8 PAS	5.5*	VII *	G-R
1964	07	07	21	12	34	35.8	73.4	19	5.2	5.0*		5.0*	VII *	PDE
1965	01	23	22	02	53	36.1	73.3		4.9*	4.4*	4.6	4.4	VI *	SSR
1965	01	29	20	06	02	35.6	73.6	33	5.7	5.8*		5.4*	VII *	PDE
1965	02	08	14	03	53	36.4	73.0	220	5.1	4.8*		5.0*	VII *	PDE
1965	07	06	13	21	07	36.6	73.0	163	4.6	4.0*		4.6*	VI *	PDE
1966	08	24	04	32	40	36.9	73.5	182	4.9	4.5*		4.8*	VII *	PDE
1971	12	21	09	54	42	35.5	74.2	25	5.2	5.0*		5.0*	VII *	PDE
1971	12	27	20	59	34	35.1	73.1	10	5.4	5.3*		5.2*	VII *	PDE
1972	04	02	03	34	28	36.1	73.6	47	5.0	4.6*		4.9*	VII *	PDE
1972	04	02	07	50	54	36.1	73.5	61	4.8	4.3*		4.8*	VII *	PDE
1972	04	09	22	47	37	35.1	74.6	49	4.9	4.5*		4.8*	VII *	PDE
1972	09	03	16	48	29	36.0	73.4	36	6.3	6.2		5.9*	IV	PDE
1972	09	03	17	09	19	36.0	73.4	33	5.0	4.6*		4.9*	VII *	PDE
1972	09	03	17	46	17	36.0	73.3	33	5.1	4.8*		5.0*	VII *	PDE
1972	09	03	20	32	18	35.9	73.5	33	5.2	5.0*		5.0*	VII *	PDE
1972	09	03	23	03	52	35.9	73.3	33	5.6	5.6*		5.3*	VII *	PDE
1972	09	04	00	14	10	35.9	73.4	55	5.5	5.4*		5.3*	VII *	PDE
1972	09	04	00	50	27	36.0	73.3	68	5.3	5.1*		5.1*	VII *	PDE
1972	09	04	01	23	50	35.8	73.3	33	5.4	5.3*		5.2*	VII *	PDE
1972	09	04	02	36	17	35.9	73.3	30	5.2	5.0*		5.0*	VII *	PDE
1972	09	04	03	51	21	35.9	73.5	35	5.3	5.1*		5.1*	VII *	PDE
1972	09	04	06	26	45	36.0	73.5	33	4.7	4.2*		4.7*	VII *	PDE
1972	09	04	10	35	46	35.7	73.4	61	4.9	4.5*		4.8*	VII *	PDE
1972	09	04	13	37	51	35.8	73.3	33	5.2	5.0*		5.0*	VII *	PDE
1972	09	04	13	42	18	35.9	73.4	33	5.8	5.9*		5.5*	VII *	PDE
1972	09	04	22	44	10	35.8	73.6	56	4.8	4.3*		4.8*	VII *	PDE
1972	09	04	23	25	26	35.9	73.7	33	4.6	4.0*		4.6*	VI *	PDE
1972	09	05	03	08	01	35.8	73.5	45	5.2	5.0*		5.0*	VII *	PDE
1972	09	05	04	07	27	35.9	73.4	33	5.2	5.0*		5.0*	VII *	PDE
1972	09	05	09	13	57	35.8	73.4	33	5.1	4.8*		5.0*	VII *	PDE
1972	09	07	04	24	15	36.0	73.6	33	4.8	5.4		4.8*	VII *	PDE
1972	09	17	17	37	49	35.9	73.3	33	5.4	5.3*		5.2*	VII *	PDE
1972	09	18	21	42	00	35.8	73.5	35	4.8	4.3*		4.8*	VII *	PDE
1972	09	26	19	10	31	36.0	73.6	33	4.9	4.5*		4.8*	VII *	PDE
1972	09	27	09	18	08	36.1	73.4	33	5.1	4.8*		5.0*	VII *	PDE
1972	09	27	20	24	56	35.2	73.0	39	5.0	4.6*		4.9*	VII *	PDE
1972	10	12	00	21	14	35.9	73.3	49	5.2	5.0*		5.0*	VII *	PDE
1972	10	13	05	04	37	35.8	73.3	33	5.2	5.0*		5.0*	VII *	PDE
1972	10	15	14	47	53	35.8	73.4	63	5.1	4.8*		5.0*	VII *	PDE
1972	10	31	21	31	19	35.9	73.5	68	4.7	4.2*		4.7*	VII *	PDE
1973	01	29	04	32	07	35.8	73.3	53	5.0	4.6*		4.9*	VII *	PDE
1973	10	02	16	03	38	35.9	73.4	65	4.9	4.5*		4.8*	VII *	PDE
1973	10	06	10	29	14	35.9	73.3	56	4.9	4.5*		4.8*	VII *	PDE
1973	12	09	02	36	52	35.9	73.3	33	5.0	4.6*		4.9*	VII *	PDE
1975	01	20	09	27	59	35.2	73.0	33	4.8	4.3*		4.8*	VII *	PDE
1975	03	23	01	19	34	35.5	74.4	33	4.8	4.3*		4.8*	VII *	PDE
1975	04	23	09	07	27	35.9	73.2	79	4.8	4.3*		4.8*	VII *	PDE
1976	03	11	18	51	33	36.8	74.3	54	4.9	4.5*		4.8*	VII *	PDE
1976	03	22	06	15	30	35.8	73.4	65	4.9	4.5*		4.8*	VII *	PDE
1981	09	12	07	15	54	35.7	73.6	33	6.2	5.9	6.0 PAS	5.8*	VIII*	PDE
1981	09	12	12	33	37	35.7	73.7	33	4.6	4.0*		4.6*	VI *	PDE
1981	09	12	17	38	50	35.8	73.7	33	4.8	4.3*		4.8*	VII *	PDE
1981	09	13	06	00	28	35.7	73.8	33	4.8	4.3*		4.8*	VII *	PDE
1981	09	16	07	10	25	35.8	73.8	33	4.6	4.0*		4.6*	VI *	PDE
1981	09	18	17	05	01	35.6	73.6	58	5.1	4.8*		5.0*	VII *	PDE
1981	11	09	09	37	26	35.7	73.6	74	4.9	4.5*		4.8*	VII *	PDE

DATE YEAR	MO	DA	TIME H	M	S	LOCATION LAT	LONG	DEPTH Km	MAGNITUDES m_b	M_s	M_o	M_L	INTENSITY MAX	SOURCE CODE
1981	11	10	10	46	16	35.7	73.6	50	4.7	4.2*		4.7*	VII *	PDE
1981	12	05	01	42	29	35.7	73.4	71	4.6	4.0*		4.6*	VI *	PDE
1982	02	22	17	59	57	35.6	73.8	33	5.4	4.6		5.2*	VII *	PDE
1982	08	12	18	51	24	35.7	73.6	22	4.8	4.3*		4.8*	VII *	PDE

* INDICATES CALCULATED VALUE

SOLID EARTH (SE) DATA REPORT SERIES

Listed below are data reports published in the Solid Earth (SE) series of World Data Center A for Solid Earth Geophysics, NOAA/NGDC, Boulder, Colo. 80303, USA. Additional information on the services of the National Geophysical Data Center is available in the following publications: Earthquake Data Services and Publications (KGRD-15); Marine Geology and Geophysics Data Services and Publications (KGRD-14); and Terrestrial Geophysics Data Services and Publications (KGRD-19).

SE-1 Catalog of Tsunamis in Alaska

SE-2 Geodynamics International-9

SE-3 Summary of Earthquake Focal Mechanisms for the Western Pacific-Indonesian Region, 1929-1973

SE-4 Catalog of Tsunamis in Hawaii

SE-5 Geodynamics International-10

SE-6 Catalog of Seismograms and Strong-Motion Records

SE-7 Directory of Seismograph Stations

SE-8 Survey of Practice in Determining Magnitudes of Near Earthquakes, Part 2: Europe, Asia, Africa, Australia, the Pacific

SE-9 Survey of Practice in Determining Magnitudes of Near Earthquakes, Part 1: North, Central, and South America

SE-10 Geodynamics International-11

SE-11 The Information Explosion and its Consequences for Data Acquisition, Documentation, and Processing: An Additional Aspect of the Limits to Growth

SE-12 Geodyanamics International-12

SE-13 Bibliography of Statistical Aspects of Seismicity

SE-14 Directory of U.S. Data Repositories Supporting the International Geodynamics Project

SE-15 Geodynamics International-13

SE-16 Geodynamics International-14

SE-17 Annual Mean Values of Geomagnetic Components for Selected Observatories, 1940-73

SE-18 Homogeneous Magnitude System of the Eurasian Continent: P-Waves

SE-19 Geodynamics International-15

SE-20 Manual of Seismological Practice

SE-21 Geomagnetic Observatories, 1978

SE-22 Historical Seismogram Filming Project: First Progress Report

SE-23 Geodynamics International-16

SE-24 Historical Seismogram Filming Project: Second Progress Report

SE-25 Directory of World Seismograph Stations, Volume 1. The Americas - Part 1. United States, Canada, Bermuda

SE-26 Geodynamics International-17 - Final Report

SE-27 Catalog of Significant Earthquakes, 2000 B.C. - 1979

SE-28 Historical Seismogram Filming Project: Third Progress Report

SE-29 Strong-Motion Data from Japanese Earthquakes

SE-30 Progress Report on Selected Geophysical Activities of the United States, 1977-1981

SE-31 New Catalog of Strong Earthquakes in the U.S.S.R. from Ancient Times Through 1977

SE-32 Directory of World Digital Seismic Stations

SE-33 Historical Seismogram Filming Project: Fourth Progress Report

SE-34 Homogeneous Magnitude System of the Eurasian Continent: S and L Waves

SE-35 Documentation of Earthquake Algorithms

SE-36 Catalog of Submarine Volcanoes and Hydrological Phenomena Associated with Volcanic Events 1500 B.C. to December 31, 1899

SE-37 Inventory of Filmed Historical Seismograms and Station Bulletins at World Data Center A

SE-38 Catalog of Strong-Motion Accelerograph Records

SE-39 Tsunamis in Peru-Chile

SE-40 Earthquake Catalog for the Middle East Countries 1900-1983

☆U.S. GOVERNMENT PRINTING OFFICE: 1985-526-063:20009